CE Test Report

Equipment	:	**LTE Modem**
Model No.	:	**Pinnacle 100**
Brand Name	:	**Laird Connectivity**
Applicant	:	**Laird Connectivity, Inc.**
Address	:	**W66N220 Commerce Court, Cedarburg, Wisconsin 53012, USA**
Standard	:	**EN 301 908-1 V11.1.1 (2016-07)**
Received Date	:	**May 03, 2019**
Tested Date	:	**Nov. 22 ~ Nov. 25, 2019**

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:

James Fan / Assistant Manager

Approved by:

Gary Chang / Manager

Testing Laboratory 2732

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Release Record

Report No.	Version	Description	Issued Date
EM950303	Rev. 01	Initial issue	Jun. 02, 2020

Summary of Test Results

Ref. Std. Clause	Description	Result
4.2.2	Radiated Emissions	Pass
4.2.4	Control and Monitoring Functions	Pass

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

SW Version	BHL78xx.3.7.2.3
Oeratiing mode	Cat-M1 / NB-IoT
OperatingFrequency (MHz)	LTE Band 1: 1920 MHz ~ 1980 MHz LTE Band 3: 1710 MHz ~ 1785 MHz LTE Band 8: 880 MHz ~ 915 MHz LTE Band 20: 832 MHz ~ 862 MHz LTE Band 28: 703 MHz ~ 748 MHz
Modulation Type	QPSK, 16QAM
Duplex Mode	FDD
Release Version	13

1.1.2 Antenna Details

Ant. No.	Brand / Model	Type	Connector	Gain (dBi)	Operating Band
1	Laird / DBA6927C1	Dipole	U.FL	2.2	LTE Band 1
				2.2	LTE Band 3
				0.5	LTE Band 8
				0.5	LTE Band 20
				0.5	LTE Band 28
2	Laird / EFF6925A3S	Flex	U.FL	3.7	LTE Band 1
				3.7	LTE Band 3
				1.9	LTE Band 8
				1.9	LTE Band 20
				1.9	LTE Band 28
3	Laird / 110-00665	Stamped Metal	N/A	2.6	LTE Band 1
				2.6	LTE Band 3
				1.3	LTE Band 20
				1.3	LTE Band 28

1.1.3 EUT Operational Condition

Power Supply Type	3.7 Vdc

1.1.4 Accessories

N/A

1.1.5 Channel List

Cat-M1

LTE Band 1			
Bandwidth (MHz)	**Channel location**	**Channel of Uplink**	**Frequency of Uplink [MHz]**
5	Low	18025	1922.5
	Middle	18300	1950.0
	High	18575	1977.5
10	Low	18050	1925.0
	Middle	18300	1950.0
	High	18550	1975.0
15	Low	18075	1927.5
	Middle	18300	1950.0
	High	18525	1972.5
20	Low	18100	1930.0
	Middle	18300	1950.0
	High	18500	1970.0

LTE Band 3			
Bandwidth (MHz)	**Channel location**	**Channel of Uplink**	**Frequency of Uplink [MHz]**
1.4	Low	19207	1710.7
	Middle	19575	1747.5
	High	19943	1784.3
3	Low	19215	1711.5
	Middle	19575	1747.5
	High	19935	1783.5
5	Low	19225	1712.5
	Middle	19575	1747.5
	High	19925	1782.5
10	Low	19250	1715.0
	Middle	19575	1747.5
	High	19900	1780.0
15	Low	19275	1717.5
	Middle	19575	1747.5
	High	19875	1777.5
20	Low	19300	1720.0
	Middle	19575	1747.5
	High	19850	1775.0

LTE Band 8			
Bandwidth (MHz)	**Channel location**	**Channel of Uplink**	**Frequency of Uplink [MHz]**
1.4	Low	21457	880.7
	Middle	21625	897.5
	High	21793	914.3
3	Low	21465	881.5
	Middle	21625	897.5
	High	21785	913.5
5	Low	21475	882.5
	Middle	21625	897.5
	High	21775	912.5
10	Low	21500	885.0
	Middle	21625	897.5
	High	21750	910.0

LTE Band 20			
Bandwidth (MHz)	**Channel location**	**Channel of Uplink**	**Frequency of Uplink [MHz]**
5	Low	24175	834.5
	Middle	24300	847.0
	High	24425	859.5
10	Low	24200	837.0
	Middle	24300	847.0
	High	24400	857.0
15	Low	24225	839.5
	Middle	24300	847.0
	High	24375	854.5
20	Low	24250	842.0
	Middle	24300	847.0
	High	24350	852.0

LTE Band 28			
Bandwidth (MHz)	**Channel location**	**Channel of Uplink**	**Frequency of Uplink [MHz]**
3	Low	27225	704.5
	Middle	27375	719.5
	High	27645	746.5
5	Low	27235	705.5
	Middle	27385	720.5
	High	27635	745.5
10	Low	27260	708.0
	Middle	27410	723.0
	High	27610	743.0
15	Low	27285	710.5
	Middle	27435	725.5
	High	27585	740.5
20	Low	27310	713.0
	Middle	27460	728.0
	High	27560	738.0

NB-IoT

NB-IoT LTE Band 1 – Standalone				
Test Frequency ID	**N_{UL}**	**Frequency of Uplink [MHz]**	**N_{DL}**	**Frequency of Downlink [MHz]**
Low Range	18001	1920.1	1	2110.1
Mid Range	18300	1950.0	300	2140.0
High Range	18599	1979.9	599	2169.9

NB-IoT LTE Band 1 – In-band				
Test Frequency ID	**N_{UL}**	**Frequency of Uplink [MHz]**	**N_{DL}**	**Frequency of Downlink [MHz]**
Low Range[1]	18007	1920.70	7	2110.6925
Low Range[2]	18060	1925.99	60	2115.9975
Low Range[3]	18069	1926.89	69	2116.8975
Mid Range[1]	19291	1949.10	291	2139.0925
Mid Range[2]	18310	1950.99	310	2140.9975
Mid Range[3]	18319	1951.89	319	2141.8975
High Range[1]	18593	1979.30	593	2169.3075
High Range[2]	18560	1975.99	560	2165.9975
High Range[3]	18569	1976.89	569	2166.8975

NB-IoT LTE Band 1 – Guard-band				
Test Frequency ID	**N_{UL}**	**Frequency of Uplink [MHz]**	**N_{DL}**	**Frequency of Downlink [MHz]**
Low Range	18001	1920.10	1	2110.1075
Mid Range	18726	1947.60	276	2137.6075
High Range	18599	1979.90	599	2169.8925

NB-IoT LTE Band 3 – Standalone				
Test Frequency ID	**N_{UL}**	**Frequency of Uplink [MHz]**	**N_{DL}**	**Frequency of Downlink [MHz]**
Low Range	19201	1710.1	1201	1805.1
Mid Range	19575	1747.5	1575	1842.5
High Range	19949	1784.9	1949	1879.9

NB-IoT LTE Band 3 – In-band				
Test Frequency ID	**N_{UL}**	**Frequency of Uplink [MHz]**	**N_{DL}**	**Frequency of Downlink [MHz]**
Low Range[1]	19206	1710.60	1206	1805.5925
Low Range[2]	19260	1715.99	1260	1810.9975
Low Range[3]	19269	1716.89	11269	1811.8975
Mid Range[1]	19566	1746.60	1566	1841.5925
Mid Range[2]	19585	1748.49	1585	1843.4975
Mid Range[3]	19594	1749.39	1594	1844.3975
High Range[1]	19944	1784.40	1944	1879.4075
High Range[2]	19910	1780.99	1910	1875.9975
High Range[3]	19919	1781.89	1919	1876.8975

NB-IoT LTE Band 3– Guard-band				
Test Frequency ID	**N_{UL}**	**Frequency of Uplink [MHz]**	**N_{DL}**	**Frequency of Downlink [MHz]**
Low Range	19201	1710.10	1201	1805.1075
Mid Range	19551	1745.10	1551	1840.1075
High Range	19949	1784.90	1949	1879.8925

NB-IoT LTE Band 8 – Standalone				
Test Frequency ID	**N_{UL}**	**Frequency of Uplink [MHz]**	**N_{DL}**	**Frequency of Downlink [MHz]**
Low Range	21451	880.1	3451	925.1
Mid Range	21625	897.5	3625	942.5
High Range	21799	914.9	3799	959.9

NB-IoT LTE Band 8 – In-band				
Test Frequency ID	**N_{UL}**	**Frequency of Uplink [MHz]**	**N_{DL}**	**Frequency of Downlink [MHz]**
Low Range[1]	21456	880.60	3456	925.5925
Low Range[2]	21510	885.99	3510	930.9975
Low Range[3]	21519	886.89	3519	931.8975
Mid Range[1]	21616	896.60	3616	941.5925
Mid Range[2]	21635	898.49	3635	943.4975
Mid Range[3]	21644	899.39	3644	944.3975
High Range[1]	21794	914.40	3794	959.4075
High Range[2]	21760	910.99	3760	955.9975
High Range[3]	21769	911.89	3769	956.8975

NB-IoT LTE Band 8 – Guard-band				
Test Frequency ID	**N_{UL}**	**Frequency of Uplink [MHz]**	**N_{DL}**	**Frequency of Downlink [MHz]**
Low Range	21451	880.1	3451	925.1075
Mid Range	21601	895.1	3601	940.1075
High Range	21799	914.9	3799	959.8925

NB-IoT LTE Band 20 – Standalone				
Test Frequency ID	**N_{UL}**	**Frequency of Uplink [MHz]**	**N_{DL}**	**Frequency of Downlink [MHz]**
Low Range	24151	832.1	6151	791.1
Mid Range	24300	847.0	6300	806.0
High Range	24449	861.9	6449	820.9

NB-IoT LTE Band 20 – In-band				
Test Frequency ID	**N_{UL}**	**Frequency of Uplink [MHz]**	**N_{DL}**	**Frequency of Downlink [MHz]**
Low Range[1]	24157	832.70	6157	791.6925
Low Range[2]	24210	837.99	6210	796.9975
Low Range[3]	24219	838.89	6219	797.8975
Mid Range[1]	24291	846.10	6291	805.0925
Mid Range[2]	24310	847.99	6310	806.9975
Mid Range[3]	24319	848.89	6319	807.8975
High Range[1]	24443	861.30	6443	820.3075
High Range[2]	24410	857.99	6410	816.9975
High Range[3]	24419	858.89	6419	817.8975

NB-IoT LTE Band 20 – Guard-band				
Test Frequency ID	**N_{UL}**	**Frequency of Uplink [MHz]**	**N_{DL}**	**Frequency of Downlink [MHz]**
Low Range	24151	832.1150	6151	791.1075
Mid Range	24276	844.6150	6276	803.6075
High Range	24449	861.8850	6449	820.8925

NB-IoT LTE Band 28 – Standalone				
Test Frequency ID	**N_{UL}**	**Frequency of Uplink [MHz]**	**N_{DL}**	**Frequency of Downlink [MHz]**
Low Range	27211	703.1	9211	758.1
Mid Range	27435	725.5	9435	780.5
High Range	27659	747.9	9659	802.9

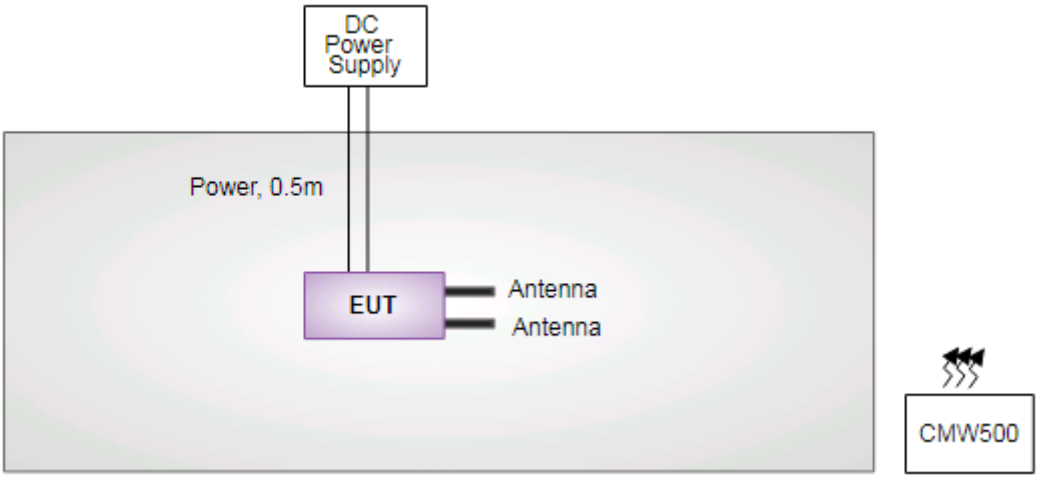
NB-IoT LTE Band 28 – In-band				
Test Frequency ID	**N_{UL}**	**Frequency of Uplink [MHz]**	**N_{DL}**	**Frequency of Downlink [MHz]**
Low Range[1]	27216	703.60	9216	758.5925
Low Range[2]	27270	708.99	9270	763.9975
Low Range[3]	27279	709.89	9279	764.8975
Mid Range[1]	27426	724.60	9426	779.5925
Mid Range[2]	27445	726.49	9445	781.4975
Mid Range[3]	27454	727.39	9454	782.3975
High Range[1]	27654	747.40	9654	802.4075
High Range[2]	27620	743.99	9620	798.9975
High Range[3]	27629	744.89	9629	799.8975

NB-IoT LTE Band 28– Guard-band				
Test Frequency ID	**N_{UL}**	**Frequency of Uplink [MHz]**	**N_{DL}**	**Frequency of Downlink [MHz]**
Low Range	27211	703.10	9211	758.1075
Mid Range	27411	723.10	9411	778.1075
High Range	27659	747.90	9659	802.8925

1.2 Local Support Equipment List

N/A

1.3 Test Setup Chart

Test Setup Diagram


1.4 Test Equipment and Calibration Data

Test Item	Radiated Emissions				
Test Site	Fully-anechoic chamber 2 / (05CH02-WS)				
Instrument	**Manufacturer**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Spectrum Analyzer	Agilent	N9010A	MY53400091	Nov. 15, 2019	Nov. 14, 2020
Receiver	Agilent	N9038A	MY53290044	Sep. 17, 2019	Sep. 16, 2020
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-523	Dec. 03, 2018	Dec. 02, 2019
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1095	Sep. 26, 2019	Sep. 25, 2020
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 15, 2019	Nov. 14, 2020
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 13, 2019	Nov. 12, 2020
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 07, 2019	Oct. 06, 2020
Preamplifier	EMC	EMC02325	980194	Sep. 18, 2019	Sep. 17, 2020
Preamplifier	Agilent	83017A	MY39501309	Sep. 24, 2019	Sep. 23, 2020
Preamplifier	EMC	EMC184045B	980192	Aug. 01, 2019	Jul. 31, 2020
RF Cable	EMC	EMC105-SM-SM-8000	180512	Oct. 18, 2019	Oct. 17, 2020
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16018/4	Oct. 18, 2019	Oct. 17, 2020
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16015/4	Oct. 18, 2019	Oct. 17, 2020
LF cable 1M	EMC	EMCCFD400-NM-NM-1000	160501	Oct. 18, 2019	Oct. 17, 2020
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-003	Oct. 18, 2019	Oct. 17, 2020
LF cable 10M	EMCC	CFD400-E	CFD400-001	Oct. 18, 2019	Oct. 17, 2020
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standard:

EN 301 908-1 V11.1.1 (2016-07)

1.6 Deviation from Test Standard and Measurement Procedure

None

1.7 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2).

Measurement Uncertainty		
Test Item	**Uncertainty**	**Limit**
Effective radiated RF power between 30MHz and 180 MHz	±3.14 dB	± 6.0 dB
Effective radiated RF power between 180MHz and 12.75GHz	±3.14 dB	± 3.0 dB
Conducted RF power	±0.830 dB	± 1.0 dB

2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
Radiated Emission	05CH02-WS	24°C / 65%	Ryan Lee

2.2 The Worst Test Modes and Channel Details

NB-IoT LTE Band 1					
Test item	**Mode**	**Operation Region**	**UL Subcarrier Spacing**	**Test Frequency**	**Test Configuration**
Radiated Spurious Emissions	Traffic / Idle mode	Standalone	15 kHz	1920.1 MHz	1, 2, 3
		In-band	15 kHz	1920.7 MHz	1, 2, 3
		Guard-band	15 kHz	1979.9 MHz	1, 2, 3
Control and Monitoring Functions	Operating mode	Standalone	15 kHz	1920.1 MHz	2
		In-band	15 kHz	1920.7 MHz	2
		Guard-band	15 kHz	1979.9 MHz	2
NB-IoT LTE Band 3					
Test item	**Mode**	**Operation Region**	**UL Subcarrier Spacing**	**Test Frequency**	**Test Configuration**
Radiated Spurious Emissions	Traffic / Idle mode	Standalone	15 kHz	1710.1 MHz	1, 2, 3
		In-band	15 kHz	1710.6 MHz	1, 2, 3
		Guard-band	15 kHz	1784.9 MHz	1, 2, 3
Control and Monitoring Functions	Operating mode	Standalone	15 kHz	1710.1 MHz	2
		In-band	15 kHz	1710.6 MHz	2
		Guard-band	15 kHz	1784.9 MHz	2

NOTE:

1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Y-plane** result was found as the worst case and was shown in this report. .
2. Test configurations are listed as below:
   Configuration 1: DBA6927C1 antenna
   Configuration 2: EFF6925A3S antenna
   Configuration 3: EPM6985-001 antenna

NB-IoT LTE Band 8					
Test item	**Mode**	**Operation Region**	**UL Subcarrier Spacing**	**Test Frequency**	**Test Configuration**
Radiated Spurious Emissions	Traffic / Idle mode	Standalone	15 kHz	880.1 MHz	1, 2
		In-band	15 kHz	886.89 MHz	1, 2
		Guard-band	15 kHz	914.9 MHz	1, 2
Control and Monitoring Functions	Operating mode	Standalone	15 kHz	880.1 MHz	2
		In-band	15 kHz	886.89 MHz	2
		Guard-band	15 kHz	914.9 MHz	2
NB-IoT LTE Band 20					
Test item	**Mode**	**Operation Region**	**UL Subcarrier Spacing**	**Test Frequency**	**Test Configuration**
Radiated Spurious Emissions	Traffic / Idle mode	Standalone	15 kHz	832.1 MHz	1, 2, 3
		In-band	3.75 kHz	837.99 MHz	1, 2, 3
		Guard-band	3.75 kHz	861.8850 MHz	1, 2, 3
Control and Monitoring Functions	Operating mode	Standalone	15 kHz	832.1 MHz	2
		In-band	3.75 kHz	837.99 MHz	2
		Guard-band	3.75 kHz	861.8850 MHz	2
NB-IoT LTE Band 28					
Test item	**Mode**	**Operation Region**	**UL Subcarrier Spacing**	**Test Frequency**	**Test Configuration**
Radiated Spurious Emissions	Traffic / Idle mode	Standalone	15 kHz	747.9 MHz	1, 2, 3
		In-band	15 kHz	703.6 MHz	1, 2, 3
		Guard-band	15 kHz	747.9 MHz	1, 2, 3
Control and Monitoring Functions	Operating mode	Standalone	15 kHz	747.9 MHz	2
		In-band	15 kHz	703.6 MHz	2
		Guard-band	15 kHz	747.9 MHz	2

NOTE:

1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Y-plane** result was found as the worst case and was shown in this report. .
2. Test configurations are listed as below:

   Configuration 1: DBA6927C1 antenna

   Configuration 2: EFF6925A3S antenna

   Configuration 3: EPM6985-001 antenna

Cat-M1					
Test item	**Mode**	**Modulation**	**Bandwidth**	**Test Channel**	**Test Configuration**
Radiated Spurious Emissions	LTE Band 1 Traffic / Idle mode	QPSK	20MHz	1970	1, 2, 3
	LTE Band 3 Traffic / Idle mode	QPSK	20MHz	1720	1, 2, 3
	LTE Band 8 Traffic / Idle mode	QPSK	10MHz	885	1, 2
	LTE Band 20 Traffic / Idle mode	QPSK	20MHz	847	1, 2, 3
	LTE Band 28 Traffic / Idle mode	QPSK	20MHz	713	1, 2, 3
Control and Monitoring Functions	LTE Band 1 Operating mode	QPSK	5MHz, 10MHz, 15MHz, 20MHz	1950.0	2
	LTE Band 3 Operating mode	QPSK	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz	1747.5	2
	LTE Band 8 Operating mode	QPSK	1.4MHz, 3MHz, 5MHz, 10MHz	897.5	2
	LTE Band 20 Operating mode	QPSK	5MHz, 10MHz, 15MHz, 20MHz	847.0	2
	LTE Band 28 Operating mode	QPSK	3MHz, 5MHz, 10MHz, 15MHz, 20MHz	719.5	2

NOTE:

1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Y-plane** result was found as the worst case and was shown in this report. .
2. Test configurations are listed as below:

   Configuration 1: DBA6927C1 antenna

   Configuration 2: EFF6925A3S antenna

   Configuration 3: EPM6985-001 antenna

3 Transmitter Test Results

3.1 Radiated Emissions

3.1.1 Limit of Radiated Emissions

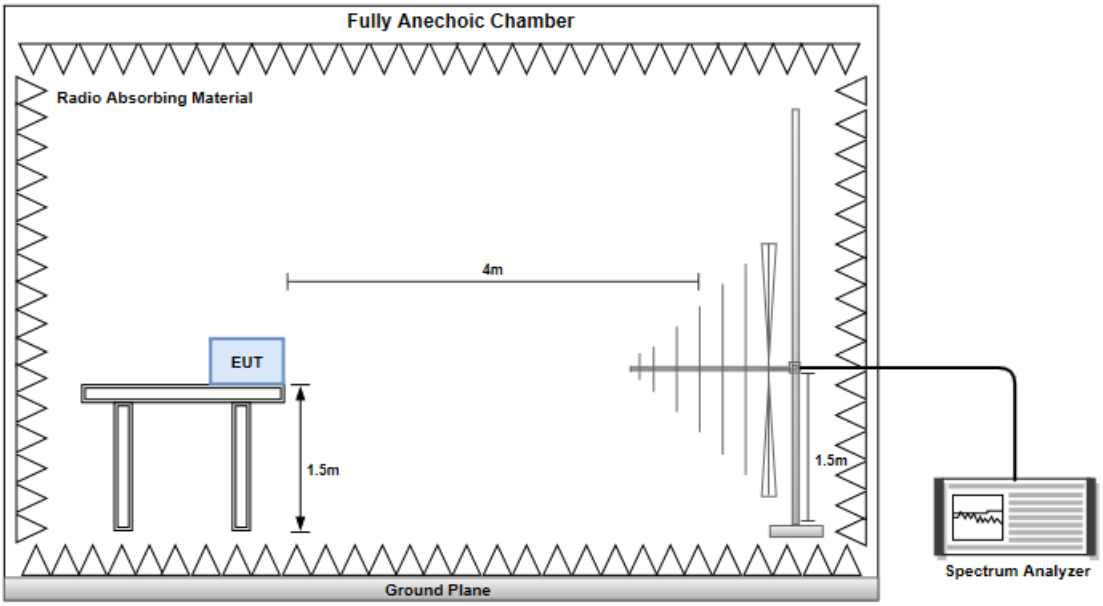
Frequency Range	Minimum Requirement (e.r.p.)/ reference bandwidth idle mode	Minimum Requirement (e.r.p.)/ reference bandwidth traffic mode
30 MHz ≤ f < 1000 MHz	-57dBm / 100kHz	-36 dBm / 100kHz
1 GHz ≤ f < 12.75 GHz	-47 dBm / 1MHz	-30 dBm / 1MHz

3.1.2 Test Procedures

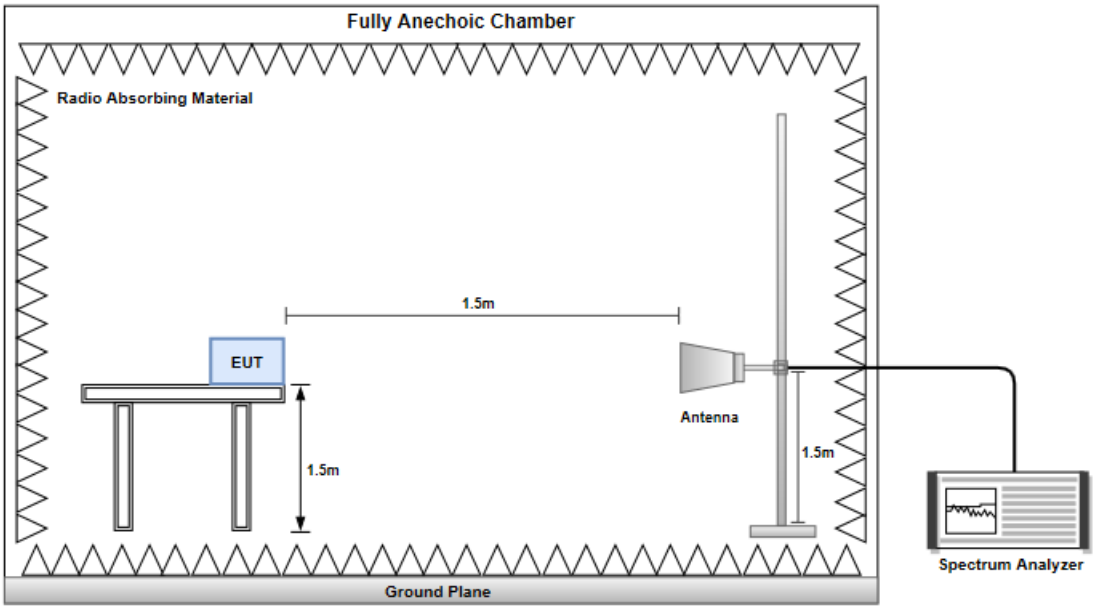
Reference to clause 5.3.1.1 of ETSI EN 301 908-1 V11.1.1 (2016-07).

3.1.3 Test Setup

Below 1GHz



Above 1 GHz



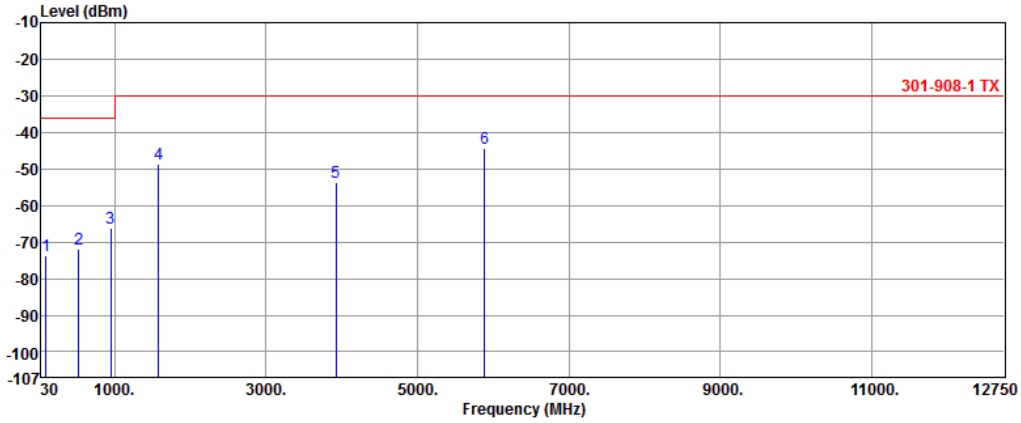
3.1.4 Definitions

Measured Value (dBm) = Reading (dBm) + Factor (dB)
Margin (dB) = Measured Value (dBm) – Limit (dBm)

Cat-M1_Configuration 1: DBA6927C1 antenna

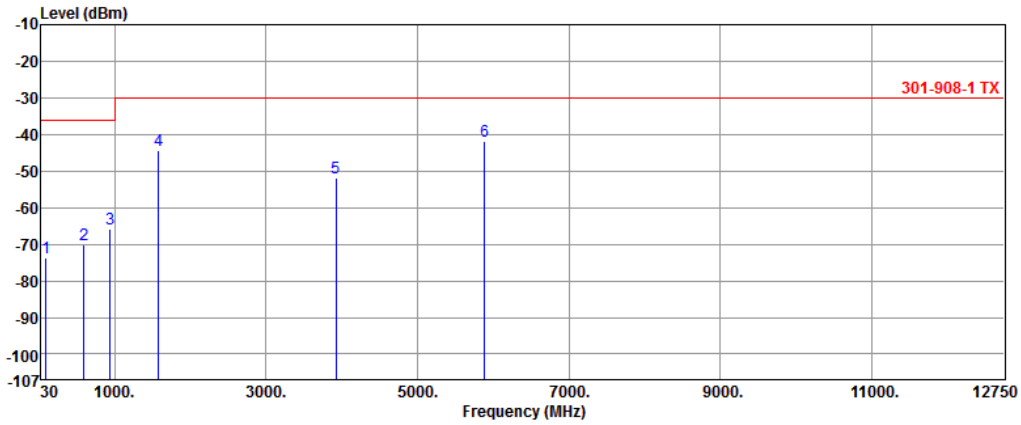
3.1.5 Radiated Emissions - traffic mode (LTE Band 1)

Test Channel (MHz)	1970	Channel Bandwidth	20MHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	93.05	-73.72	-36.00	-37.72	-5.92	-67.80
2	523.73	-72.04	-36.00	-36.04	4.61	-76.65
3	943.74	-66.16	-36.00	-30.16	12.04	-78.20
4	1579.60	-48.72	-30.00	-18.72	-1.07	-47.65
5	3924.71	-53.78	-30.00	-23.78	8.41	-62.19
6	5887.14	-44.35	-30.00	-14.35	13.17	-57.52

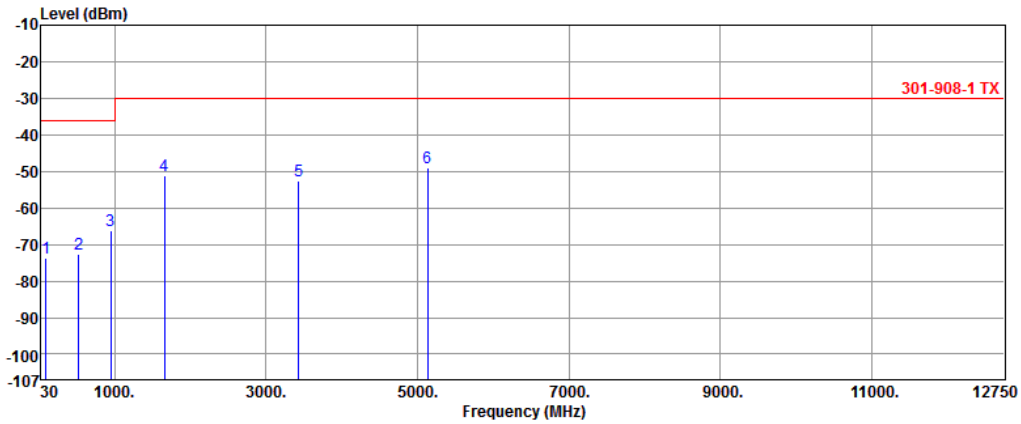
Test Channel (MHz)	1970	Channel Bandwidth	20MHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	91.11	-73.55	-36.00	-37.55	-5.16	-68.39
2	589.69	-70.21	-36.00	-34.21	6.04	-76.25
3	939.86	-65.90	-36.00	-29.90	11.61	-77.51
4	1579.60	-44.50	-30.00	-14.50	-0.96	-43.54
5	3924.71	-51.91	-30.00	-21.91	8.15	-60.06
6	5886.95	-41.94	-30.00	-11.94	12.68	-54.62

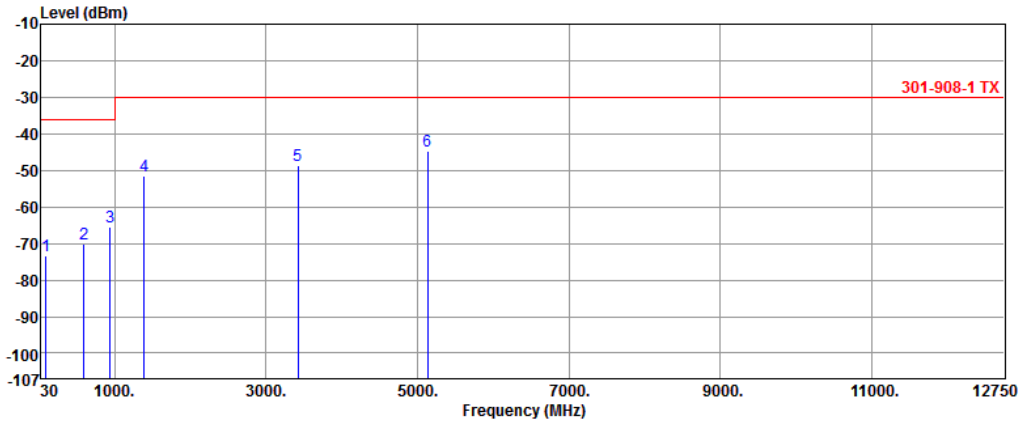
3.1.6 Radiated Emissions - traffic mode (LTE Band 3)

Test Channel (MHz)	1720	Channel Bandwidth	20MHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	93.32	-73.80	-36.00	-37.80	-5.89	-67.91
2	526.66	-72.64	-36.00	-36.64	4.36	-77.00
3	944.25	-66.20	-36.00	-30.20	12.04	-78.24
4	1651.91	-51.25	-30.00	-21.25	-1.09	-50.16
5	3424.15	-52.74	-30.00	-22.74	6.13	-58.87
6	5135.73	-49.05	-30.00	-19.05	11.97	-61.02

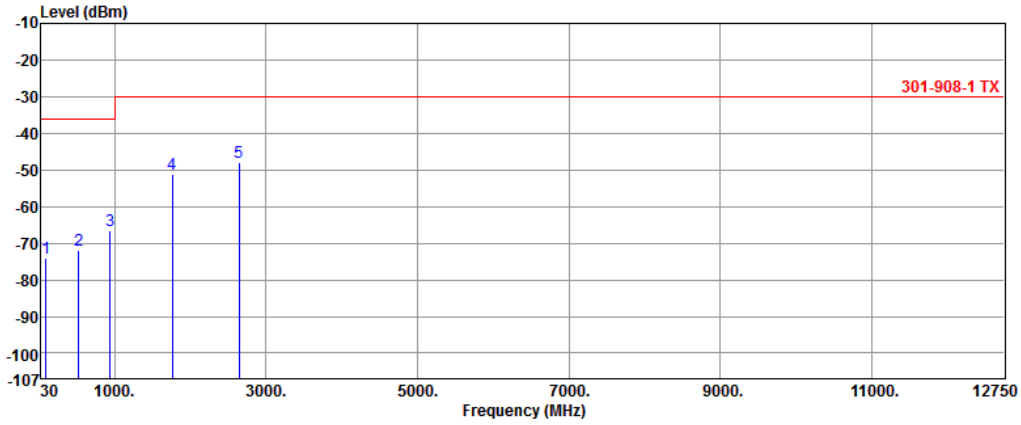
Test Channel (MHz)	1720	Channel Bandwidth	20MHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	91.88	-73.39	-36.00	-37.39	-5.10	-68.29
2	588.75	-70.26	-36.00	-34.26	5.98	-76.24
3	935.40	-65.52	-36.00	-29.52	11.44	-76.96
4	1391.28	-51.57	-30.00	-21.57	-0.82	-50.75
5	3423.97	-48.58	-30.00	-18.58	5.76	-54.34
6	5135.45	-44.74	-30.00	-14.74	11.81	-56.55

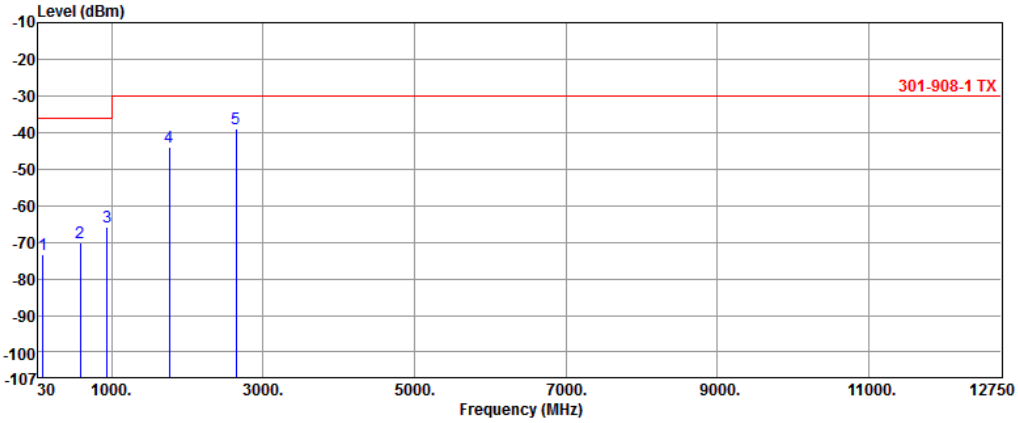
3.1.7 Radiated Emissions - traffic mode (LTE Band 8)

Test Channel (MHz)	885	Channel Bandwidth	10MHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	93.92	-73.92	-36.00	-37.92	-5.81	-68.11
2	524.61	-72.00	-36.00	-36.00	4.59	-76.59
3	942.28	-66.42	-36.00	-30.42	12.04	-78.46
4	1762.13	-51.32	-30.00	-21.32	-0.47	-50.85
5	2643.30	-47.77	-30.00	-17.77	3.91	-51.68

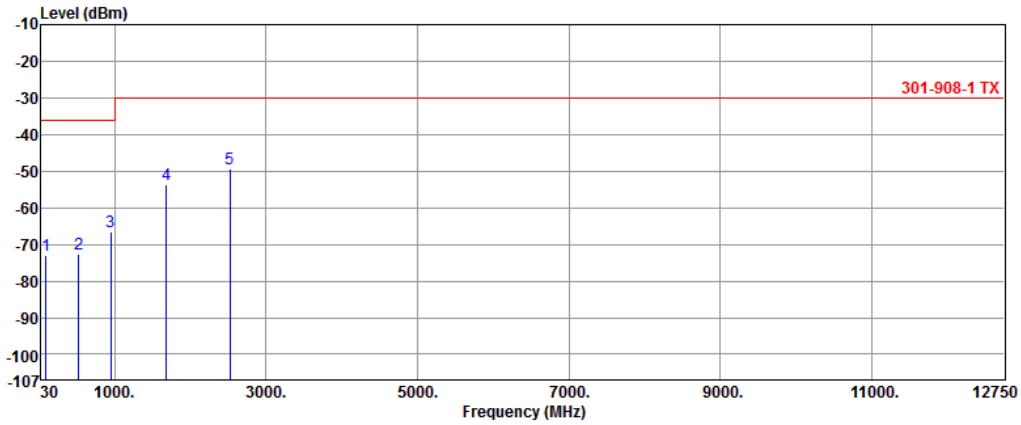
Test Channel (MHz)	885	Channel Bandwidth	10MHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	91.83	-73.28	-36.00	-37.28	-5.11	-68.17
2	584.95	-70.24	-36.00	-34.24	5.74	-75.98
3	936.33	-65.96	-36.00	-29.96	11.48	-77.44
4	1762.08	-43.99	-30.00	-13.99	-0.51	-43.48
5	2643.15	-39.08	-30.00	-9.08	3.82	-42.90

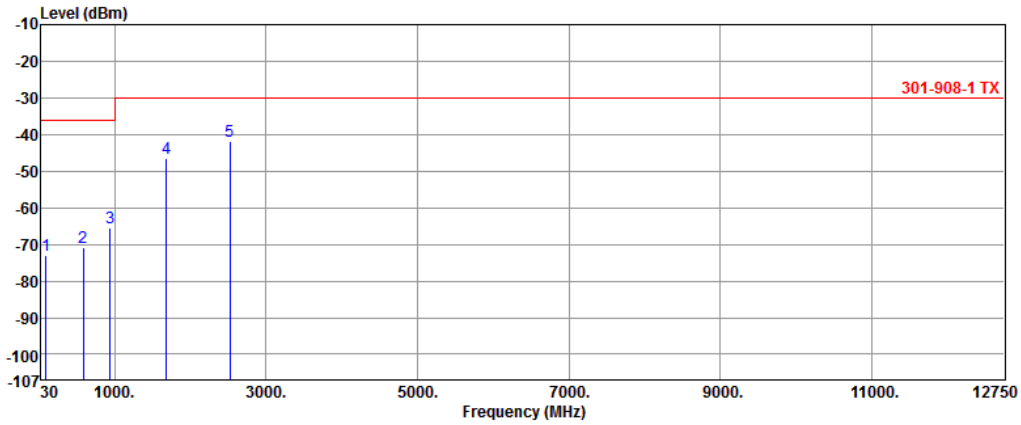
3.1.8 Radiated Emissions - traffic mode (LTE Band 20)

Test Channel (MHz)	847	Channel Bandwidth	20MHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	93.69	-73.11	-36.00	-37.11	-5.84	-67.27
2	521.16	-72.59	-36.00	-36.59	4.66	-77.25
3	944.88	-66.46	-36.00	-30.46	12.05	-78.51
4	1677.82	-53.67	-30.00	-23.67	-1.02	-52.65
5	2516.78	-49.50	-30.00	-19.50	3.46	-52.96

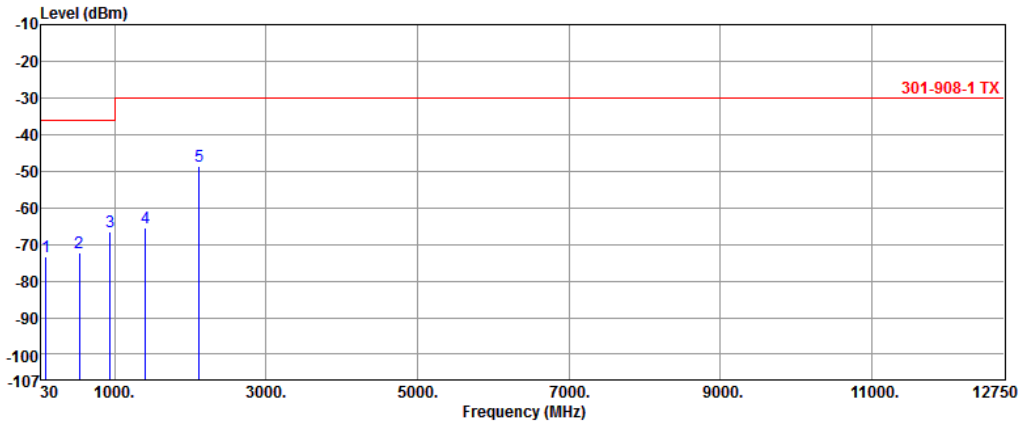
Test Channel (MHz)	847	Channel Bandwidth	20MHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	91.12	-73.17	-36.00	-37.17	-5.16	-68.01
2	587.39	-70.97	-36.00	-34.97	5.89	-76.86
3	936.44	-65.44	-36.00	-29.44	11.48	-76.92
4	1677.87	-46.38	-30.00	-16.38	-1.08	-45.30
5	2516.59	-42.01	-30.00	-12.01	3.35	-45.36

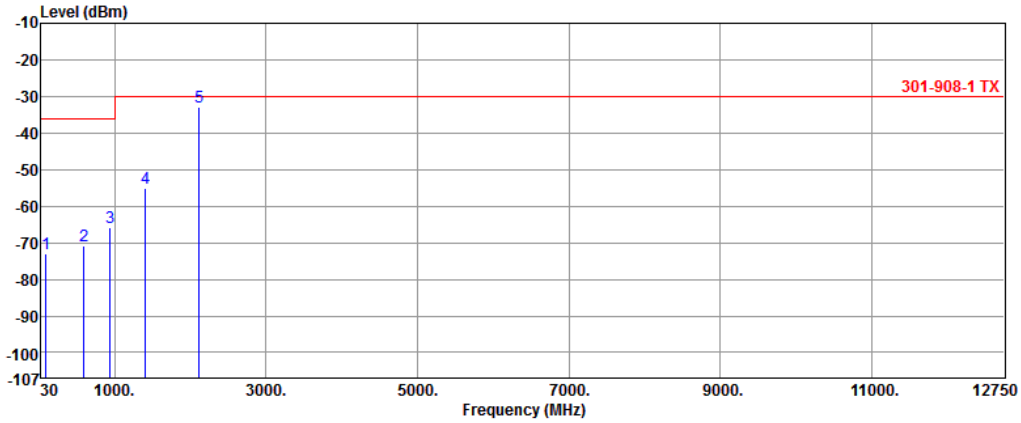
3.1.9 Radiated Emissions - traffic mode (LTE Band 28)

Test Channel (MHz)	713	Channel Bandwidth	20MHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	93.97	-73.28	-36.00	-37.28	-5.80	-67.48
2	528.25	-72.24	-36.00	-36.24	4.15	-76.39
3	941.10	-66.51	-36.00	-30.51	12.04	-78.55
4	1408.92	-65.51	-30.00	-35.51	-0.70	-64.81
5	2113.40	-48.63	-30.00	-18.63	2.66	-51.29

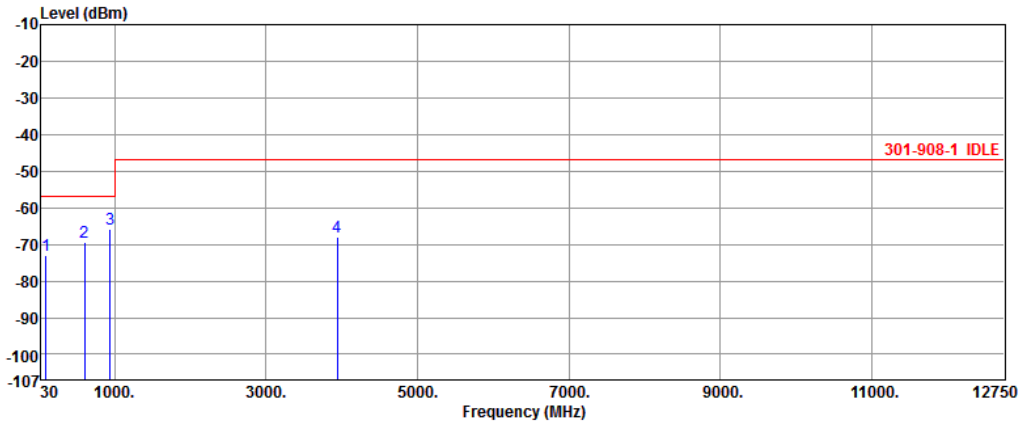
Test Channel (MHz)	713	Channel Bandwidth	20MHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	91.11	-73.01	-36.00	-37.01	-5.16	-67.85
2	588.34	-70.87	-36.00	-34.87	5.95	-76.82
3	934.17	-65.92	-36.00	-29.92	11.48	-77.40
4	1408.92	-55.10	-30.00	-25.10	-0.72	-54.38
5	2113.38	-33.03	-30.00	-3.03	2.73	-35.76

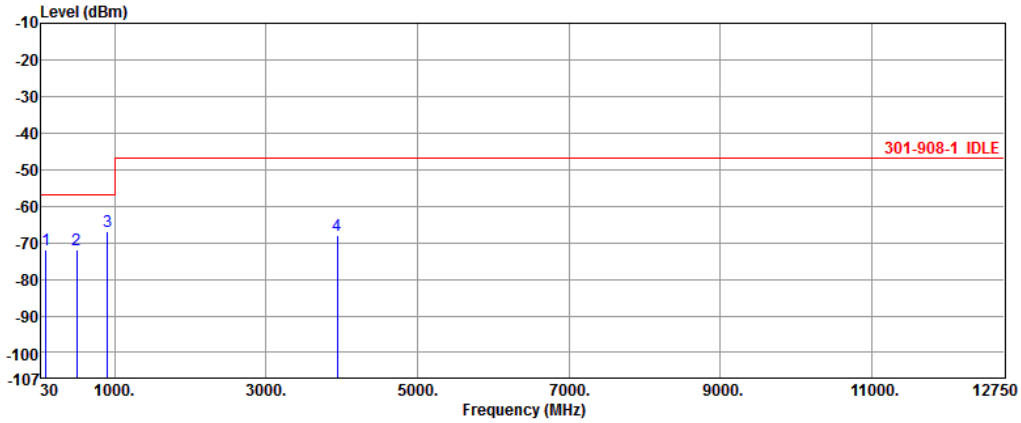
3.1.10 Radiated Emissions - Idle mode (LTE Band 1)

Test Channel (MHz)	1970	Channel Bandwidth	20MHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	93.64	-72.98	-57.00	-15.98	-5.84	-67.14
2	596.85	-69.40	-57.00	-12.40	6.56	-75.96
3	939.45	-65.76	-57.00	-8.76	12.00	-77.76
4	3939.97	-68.13	-47.00	-21.13	8.41	-76.54

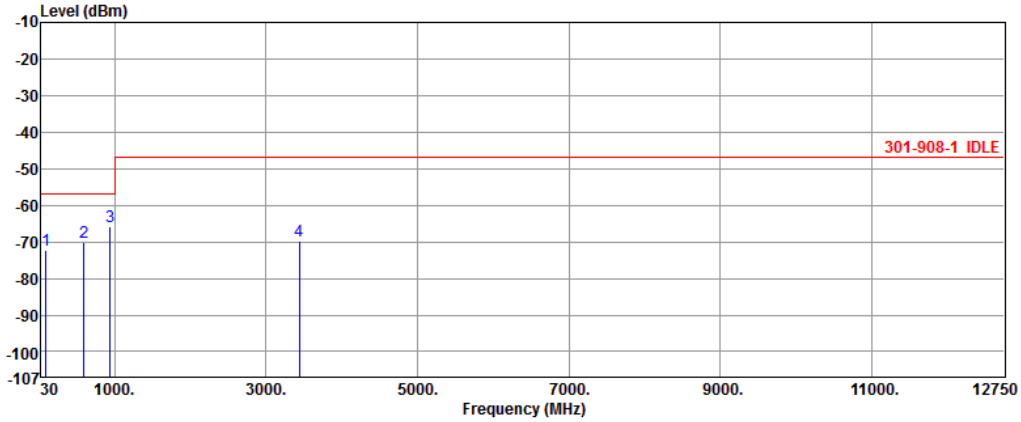
Test Channel (MHz)	1970	Channel Bandwidth	20MHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	91.76	-72.05	-57.00	-15.05	-5.11	-66.94
2	497.23	-71.87	-57.00	-14.87	4.02	-75.89
3	904.98	-66.77	-57.00	-9.77	11.07	-77.84
4	3940.02	-68.07	-47.00	-21.07	8.13	-76.20

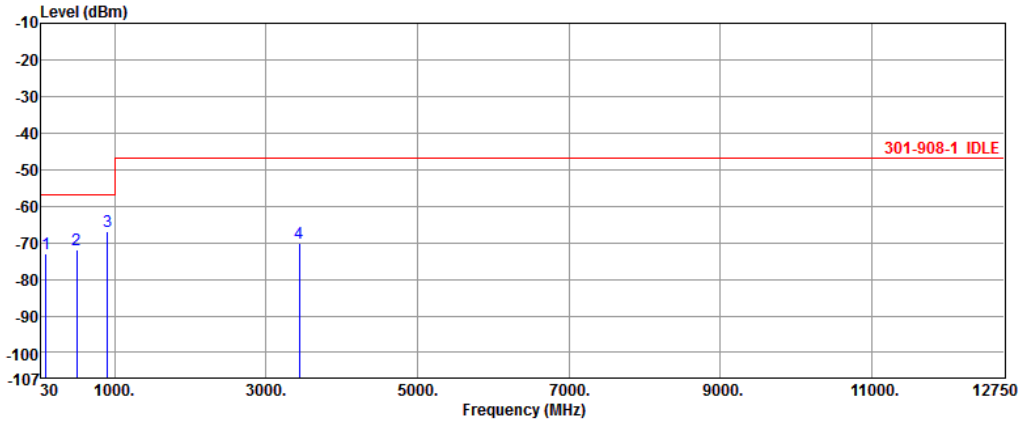
3.1.11 Radiated Emissions - Idle mode (LTE Band 3)

Test Channel (MHz)	1720	Channel Bandwidth	20MHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	93.96	-72.14	-57.00	-15.14	-5.80	-66.34
2	596.16	-69.96	-57.00	-12.96	6.57	-76.53
3	936.45	-65.76	-57.00	-8.76	11.83	-77.59
4	3439.90	-69.78	-47.00	-22.78	6.26	-76.04

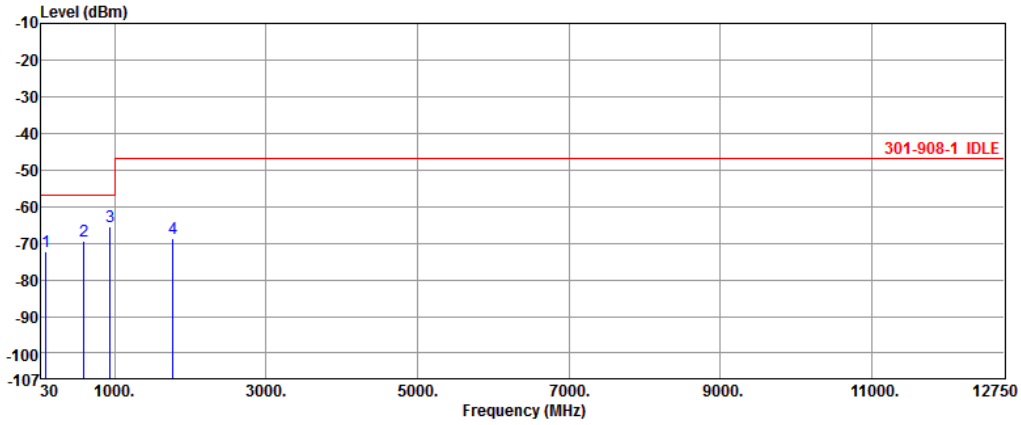
Test Channel (MHz)	1720	Channel Bandwidth	20MHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	91.28	-72.94	-57.00	-15.94	-5.15	-67.79
2	496.49	-71.88	-57.00	-14.88	3.99	-75.87
3	907.52	-66.85	-57.00	-9.85	11.09	-77.94
4	3439.85	-70.24	-47.00	-23.24	5.87	-76.11

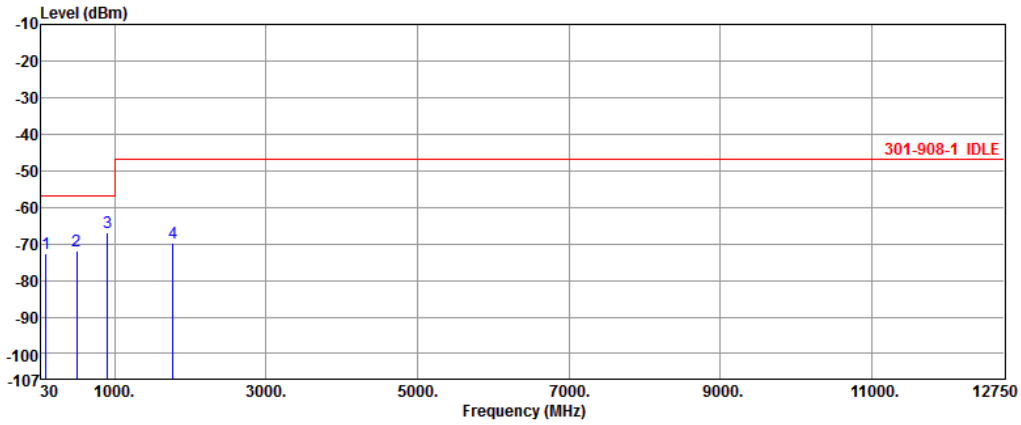
3.1.12 Radiated Emissions - Idle mode (LTE Band 8)

Test Channel (MHz)	885	Channel Bandwidth	10MHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	93.45	-72.34	-57.00	-15.34	-5.87	-66.47
2	596.39	-69.52	-57.00	-12.52	6.56	-76.08
3	937.25	-65.59	-57.00	-8.59	11.88	-77.47
4	1770.05	-68.78	-47.00	-21.78	-0.41	-68.37

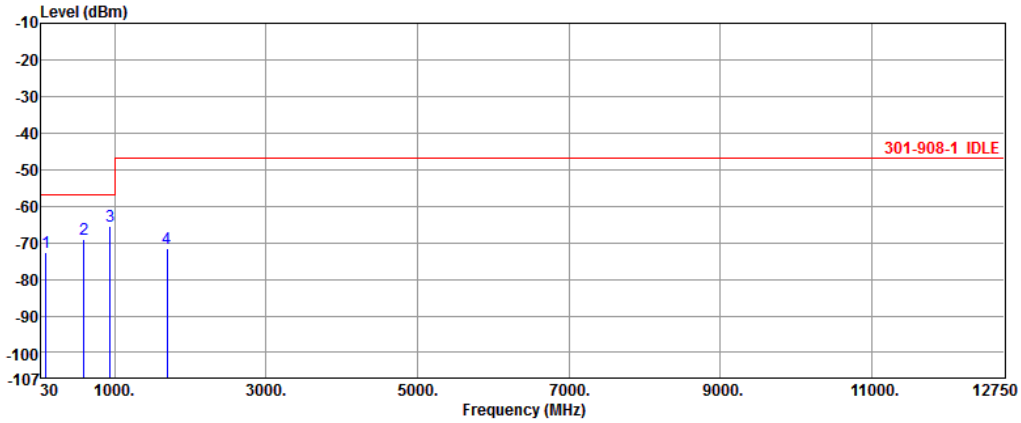
Test Channel (MHz)	885	Channel Bandwidth	10MHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	91.75	-72.79	-57.00	-15.79	-5.11	-67.68
2	493.28	-71.87	-57.00	-14.87	3.85	-75.72
3	905.57	-66.93	-57.00	-9.93	11.08	-78.01
4	1769.76	-69.64	-47.00	-22.64	-0.45	-69.19

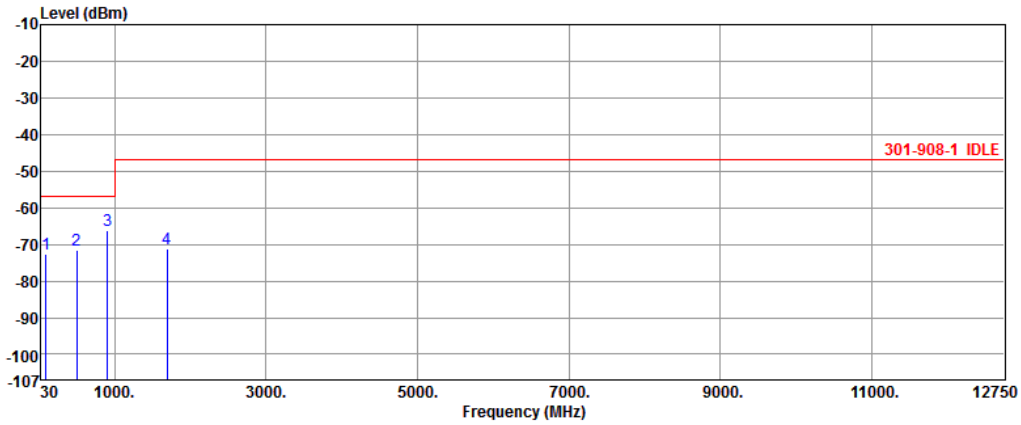
3.1.13 Radiated Emissions - Idle mode (LTE Band 20)

Test Channel (MHz)	847	Channel Bandwidth	20MHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	93.12	-72.47	-57.00	-15.47	-5.92	-66.55
2	591.65	-69.08	-57.00	-12.08	6.43	-75.51
3	938.96	-65.46	-57.00	-8.46	11.97	-77.43
4	1693.89	-71.45	-47.00	-24.45	-0.98	-70.47

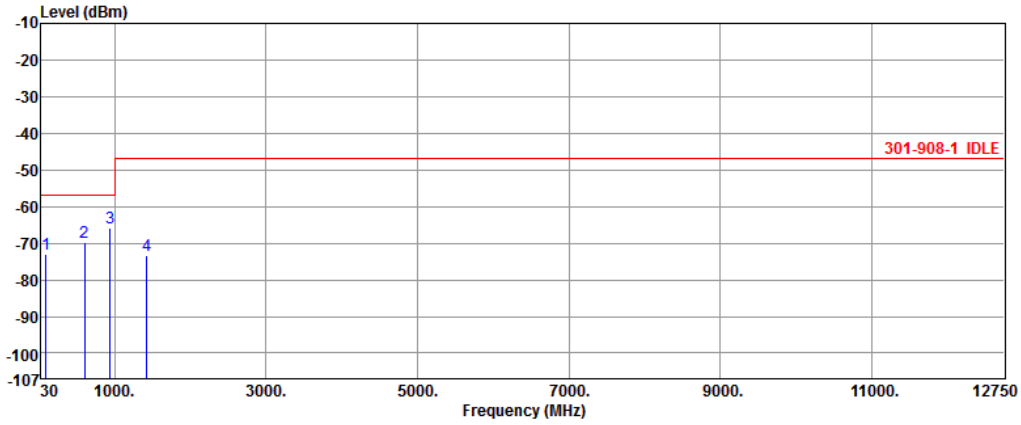
Test Channel (MHz)	847	Channel Bandwidth	20MHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	91.97	-72.67	-57.00	-15.67	-5.10	-67.57
2	498.67	-71.73	-57.00	-14.73	4.07	-75.80
3	901.12	-66.08	-57.00	-9.08	11.09	-77.17
4	1694.18	-71.35	-47.00	-24.35	-1.08	-70.27

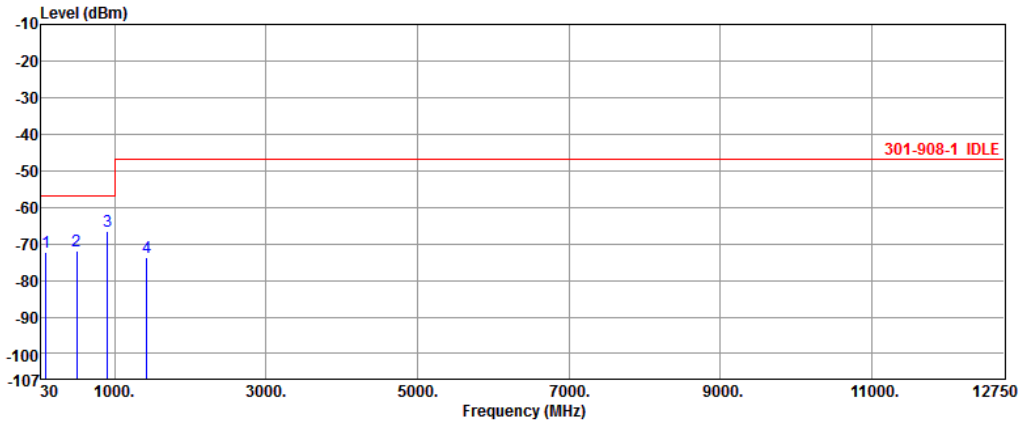
3.1.14 Radiated Emissions - Idle mode (LTE Band 28)

Test Channel (MHz)	713	Channel Bandwidth	20MHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	93.05	-72.90	-57.00	-15.90	-5.92	-66.98
2	598.42	-69.84	-57.00	-12.84	6.56	-76.40
3	936.95	-65.90	-57.00	-8.90	11.86	-77.76
4	1426.23	-73.36	-47.00	-26.36	-0.67	-72.69

Test Channel (MHz)	713	Channel Bandwidth	20MHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz

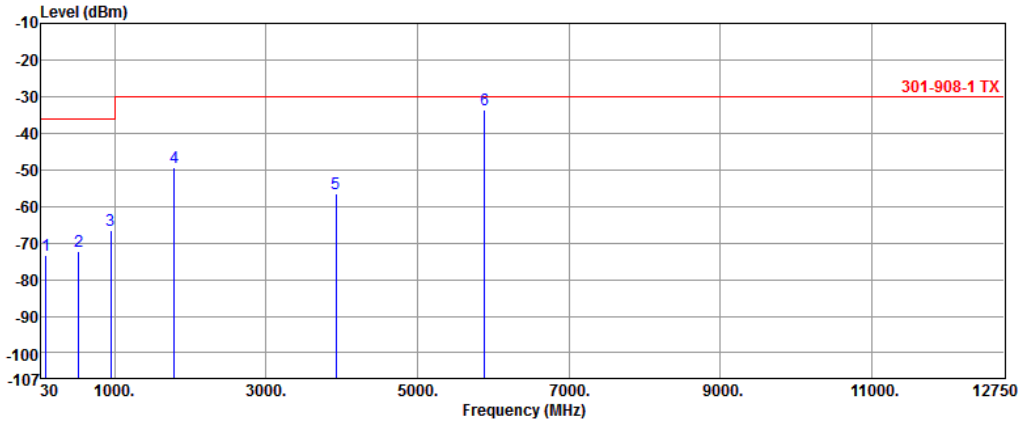


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	91.11	-72.21	-57.00	-15.21	-5.16	-67.05
2	497.54	-71.84	-57.00	-14.84	4.03	-75.87
3	900.09	-66.61	-57.00	-9.61	11.10	-77.71
4	1426.19	-73.62	-47.00	-26.62	-0.69	-72.93

Cat-M1_Configuration 2: EFF6925A3S antenna

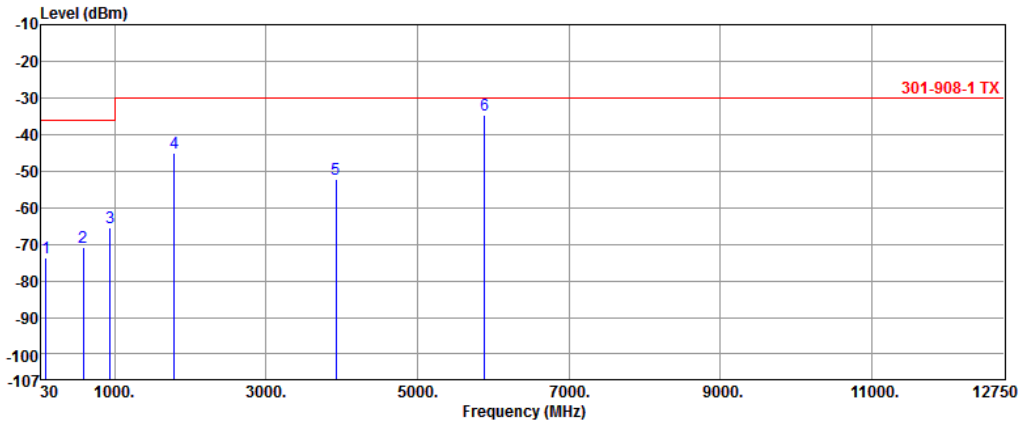
3.1.15 Radiated Emissions - traffic mode (LTE Band 1)

Test Channel (MHz)	1970	Channel Bandwidth	20MHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	93.98	-73.48	-36.00	-37.48	-5.80	-67.68
2	524.22	-72.40	-36.00	-36.40	4.60	-77.00
3	948.26	-66.56	-36.00	-30.56	12.05	-78.61
4	1787.52	-49.30	-30.00	-19.30	-0.27	-49.03
5	3924.72	-56.57	-30.00	-26.57	8.41	-64.98
6	5887.27	-33.46	-30.00	-3.46	13.17	-46.63

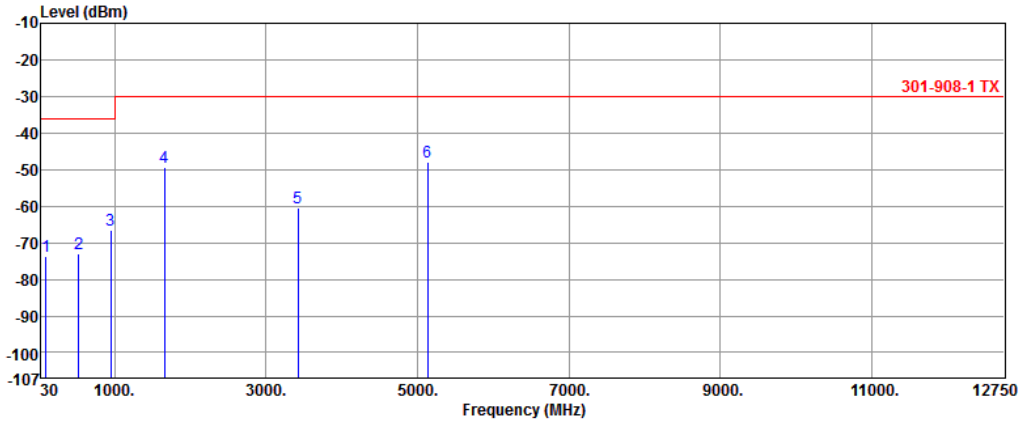
Test Channel (MHz)	1970	Channel Bandwidth	20MHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	91.99	-73.85	-36.00	-37.85	-5.09	-68.76
2	587.40	-70.82	-36.00	-34.82	5.89	-76.71
3	934.26	-65.40	-36.00	-29.40	11.47	-76.87
4	1786.60	-45.24	-30.00	-15.24	-0.29	-44.95
5	3924.72	-52.30	-30.00	-22.30	8.15	-60.45
6	5886.93	-34.85	-30.00	-4.85	12.68	-47.53

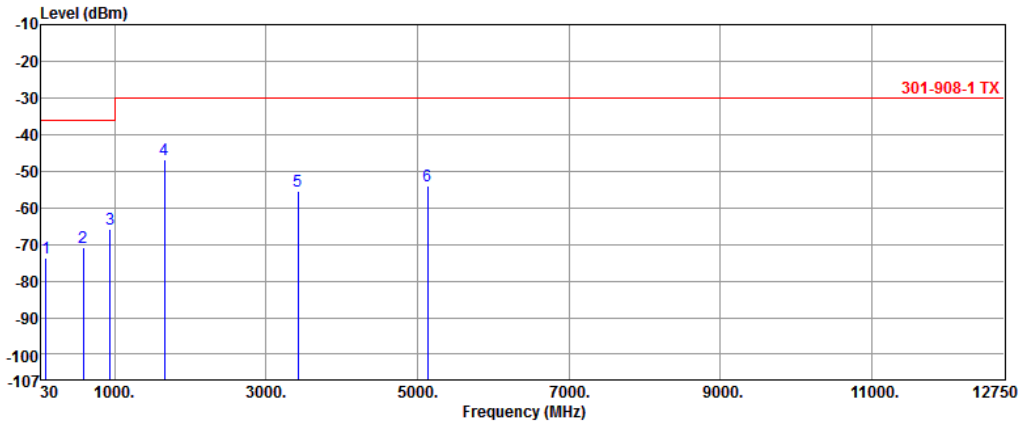
3.1.16 Radiated Emissions - traffic mode (LTE Band 3)

Test Channel (MHz)	1720	Channel Bandwidth	20MHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	93.82	-73.68	-36.00	-37.68	-5.82	-67.86
2	524.66	-72.99	-36.00	-36.99	4.59	-77.58
3	943.25	-66.60	-36.00	-30.60	12.04	-78.64
4	1651.91	-49.38	-30.00	-19.38	-1.09	-48.29
5	3423.82	-60.60	-30.00	-30.60	6.12	-66.72
6	5135.71	-47.95	-30.00	-17.95	11.98	-59.93

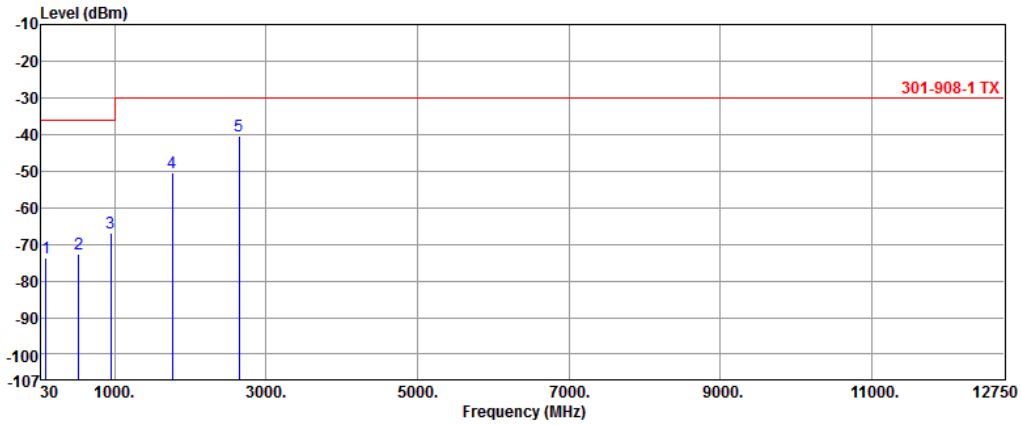
Test Channel (MHz)	1720	Channel Bandwidth	20MHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	91.97	-73.75	-36.00	-37.75	-5.10	-68.65
2	584.43	-70.72	-36.00	-34.72	5.72	-76.44
3	939.48	-65.87	-36.00	-29.87	11.60	-77.47
4	1651.91	-46.72	-30.00	-16.72	-1.08	-45.64
5	3423.92	-55.53	-30.00	-25.53	5.76	-61.29
6	5135.68	-54.20	-30.00	-24.20	11.81	-66.01

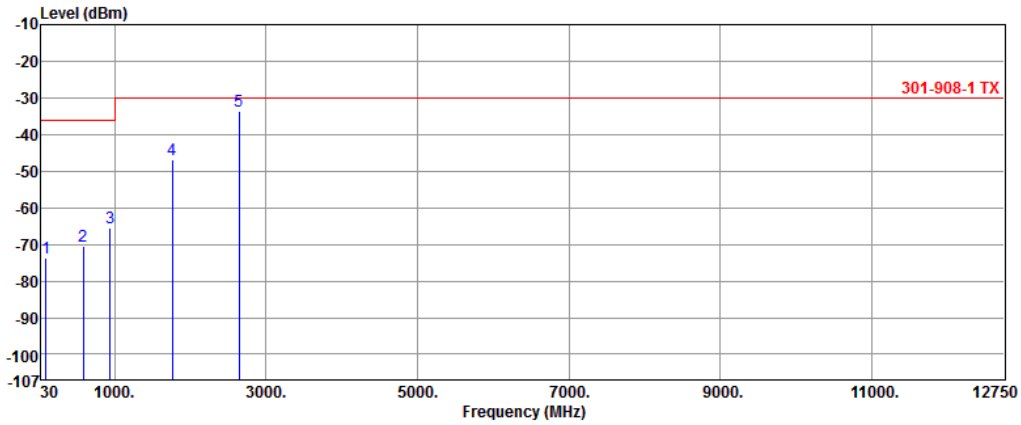
3.1.17 Radiated Emissions - traffic mode (LTE Band 8)

Test Channel (MHz)	885	Channel Bandwidth	10MHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	93.46	-73.87	-36.00	-37.87	-5.87	-68.00
2	521.78	-72.58	-36.00	-36.58	4.64	-77.22
3	945.45	-66.86	-36.00	-30.86	12.05	-78.91
4	1761.66	-50.48	-30.00	-20.48	-0.47	-50.01
5	2642.13	-40.59	-30.00	-10.59	3.91	-44.50

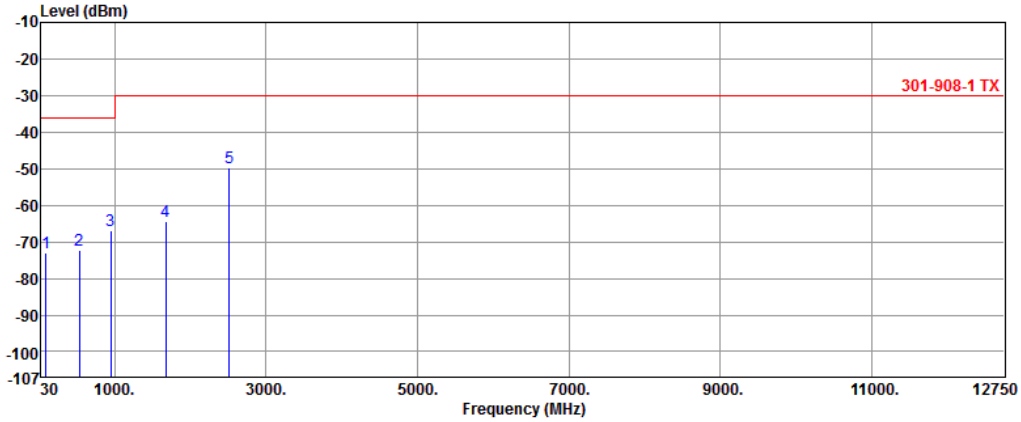
Test Channel (MHz)	885	Channel Bandwidth	10MHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	91.94	-73.65	-36.00	-37.65	-5.10	-68.55
2	584.86	-70.44	-36.00	-34.44	5.74	-76.18
3	937.85	-65.47	-36.00	-29.47	11.54	-77.01
4	1761.68	-47.01	-30.00	-17.01	-0.52	-46.49
5	2642.45	-33.53	-30.00	-3.53	3.82	-37.35

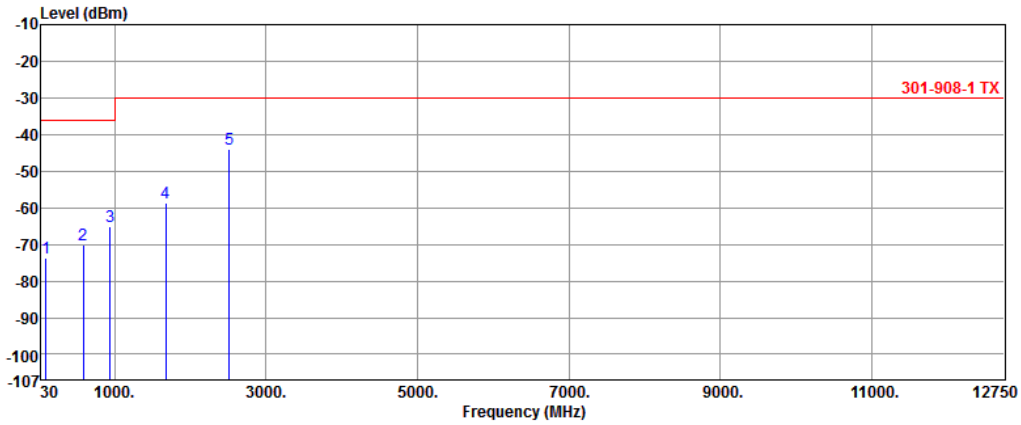
3.1.18 Radiated Emissions - traffic mode (LTE Band 20)

Test Channel (MHz)	847	Channel Bandwidth	20MHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	93.67	-73.08	-36.00	-37.08	-5.84	-67.24
2	527.49	-72.22	-36.00	-36.22	4.25	-76.47
3	949.45	-66.91	-36.00	-30.91	12.04	-78.95
4	1676.91	-64.36	-30.00	-34.36	-1.02	-63.34
5	2515.30	-49.68	-30.00	-19.68	3.45	-53.13

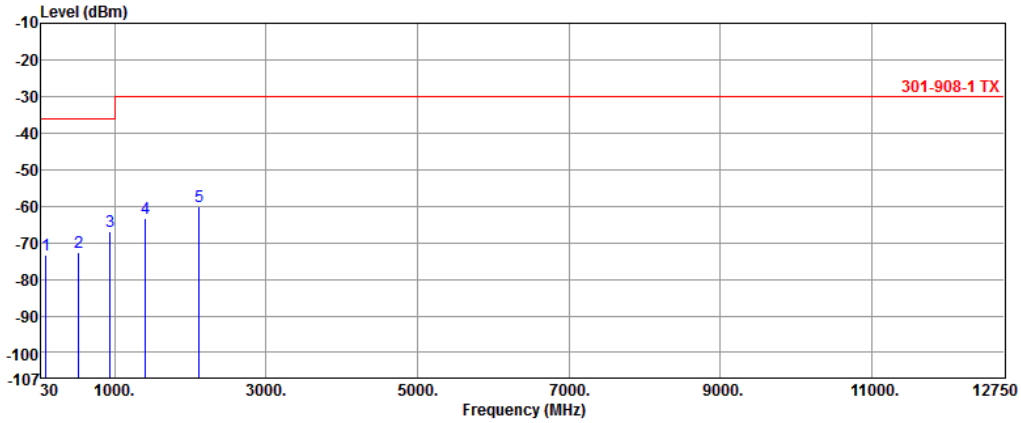
Test Channel (MHz)	847	Channel Bandwidth	20MHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	91.55	-73.55	-36.00	-37.55	-5.13	-68.42
2	583.35	-70.17	-36.00	-34.17	5.69	-75.86
3	938.39	-65.07	-36.00	-29.07	11.56	-76.63
4	1677.00	-58.54	-30.00	-28.54	-1.08	-57.46
5	2515.33	-44.14	-30.00	-14.14	3.35	-47.49

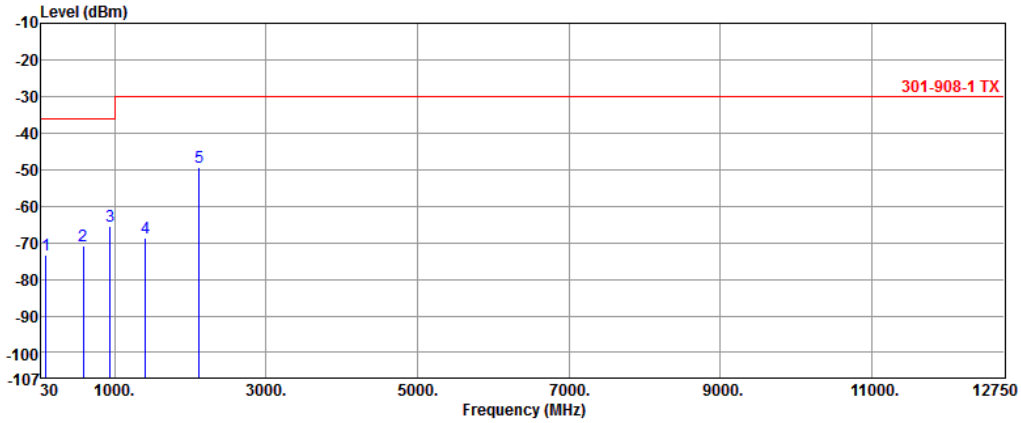
3.1.19 Radiated Emissions - traffic mode (LTE Band 28)

Test Channel (MHz)	713	Channel Bandwidth	20MHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	93.89	-73.24	-36.00	-37.24	-5.81	-67.43
2	524.71	-72.47	-36.00	-36.47	4.59	-77.06
3	941.07	-66.95	-36.00	-30.95	12.04	-78.99
4	1408.78	-63.41	-30.00	-33.41	-0.70	-62.71
5	2113.48	-60.00	-30.00	-30.00	2.67	-62.67

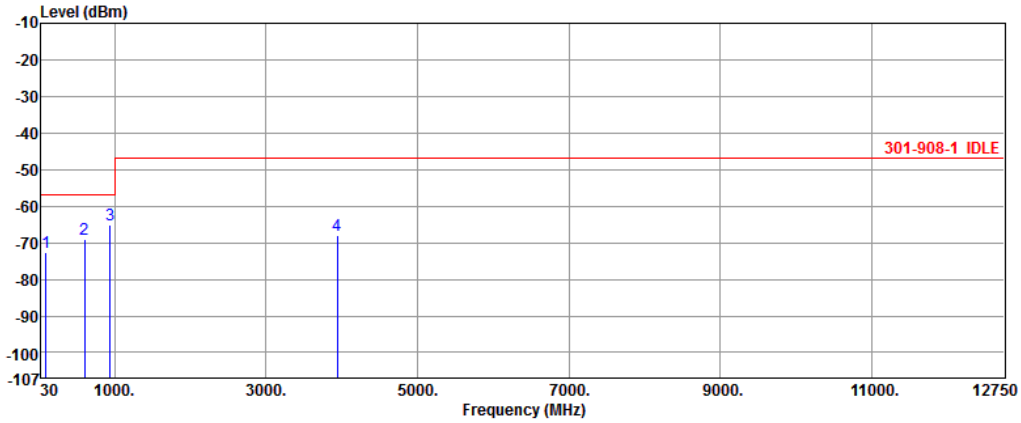
Test Channel (MHz)	713	Channel Bandwidth	20MHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	91.96	-73.42	-36.00	-37.42	-5.10	-68.32
2	582.34	-70.86	-36.00	-34.86	5.67	-76.53
3	937.31	-65.63	-36.00	-29.63	11.52	-77.15
4	1408.95	-68.63	-30.00	-38.63	-0.72	-67.91
5	2113.27	-49.49	-30.00	-19.49	2.73	-52.22

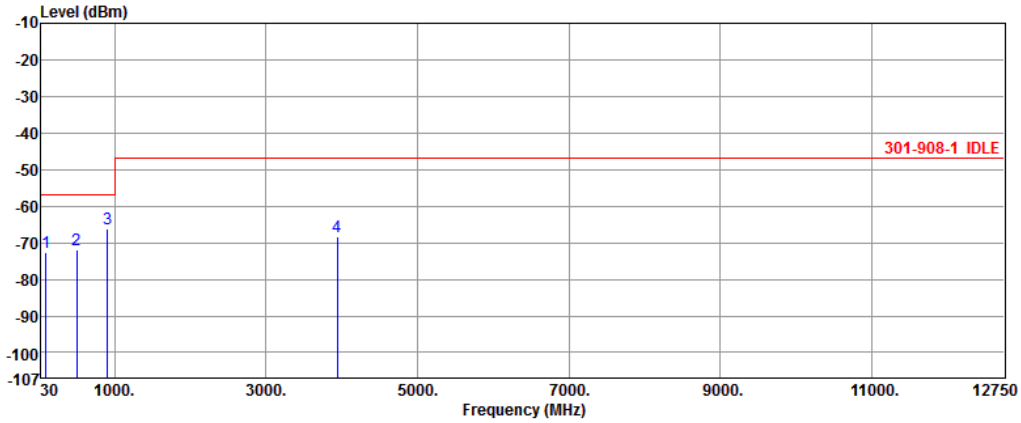
3.1.20 Radiated Emissions - Idle mode (LTE Band 1)

Test Channel (MHz)	1970	Channel Bandwidth	20MHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	93.17	-72.68	-57.00	-15.68	-5.91	-66.77
2	596.76	-69.08	-57.00	-12.08	6.56	-75.64
3	937.68	-65.20	-57.00	-8.20	11.90	-77.10
4	3939.99	-68.13	-47.00	-21.13	8.41	-76.54

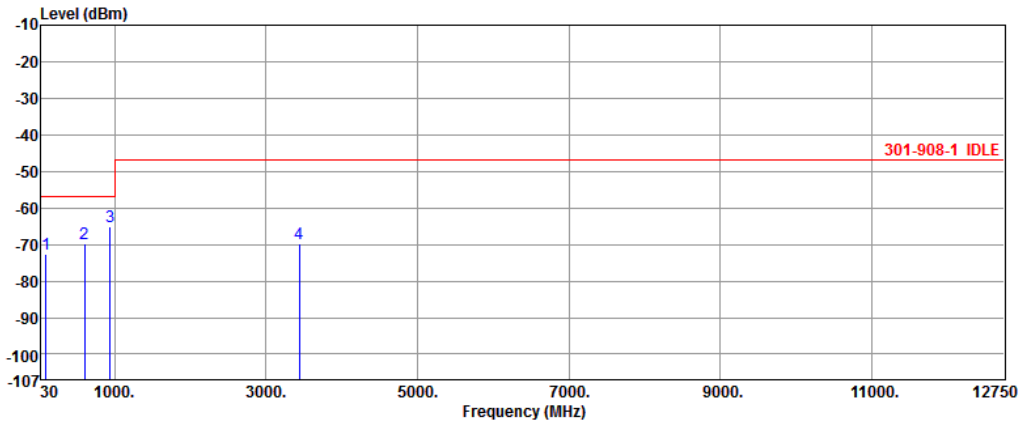
Test Channel (MHz)	1970	Channel Bandwidth	20MHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	91.57	-72.47	-57.00	-15.47	-5.12	-67.35
2	499.39	-71.99	-57.00	-14.99	4.10	-76.09
3	904.80	-66.26	-57.00	-9.26	11.07	-77.33
4	3939.76	-68.34	-47.00	-21.34	8.13	-76.47

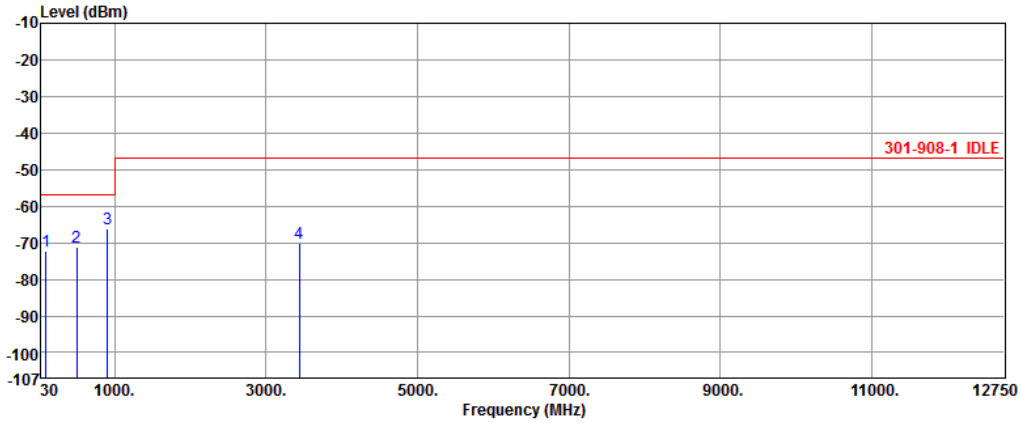
3.1.21 Radiated Emissions - Idle mode (LTE Band 3)

Test Channel (MHz)	1720	Channel Bandwidth	20MHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	93.89	-72.78	-57.00	-15.78	-5.81	-66.97
2	598.83	-69.64	-57.00	-12.64	6.55	-76.19
3	936.77	-65.10	-57.00	-8.10	11.85	-76.95
4	3440.18	-69.93	-47.00	-22.93	6.26	-76.19

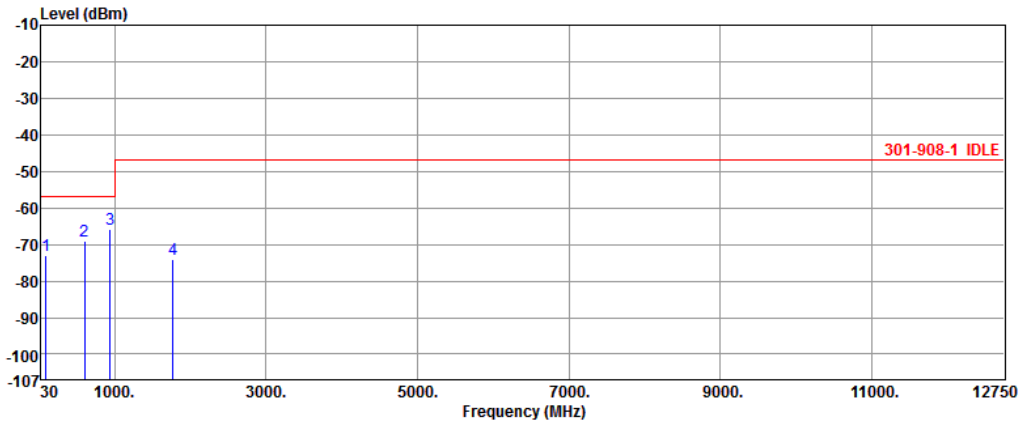
Test Channel (MHz)	1720	Channel Bandwidth	20MHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	91.74	-72.34	-57.00	-15.34	-5.11	-67.23
2	499.44	-71.09	-57.00	-14.09	4.10	-75.19
3	904.73	-66.34	-57.00	-9.34	11.07	-77.41
4	3440.08	-70.13	-47.00	-23.13	5.87	-76.00

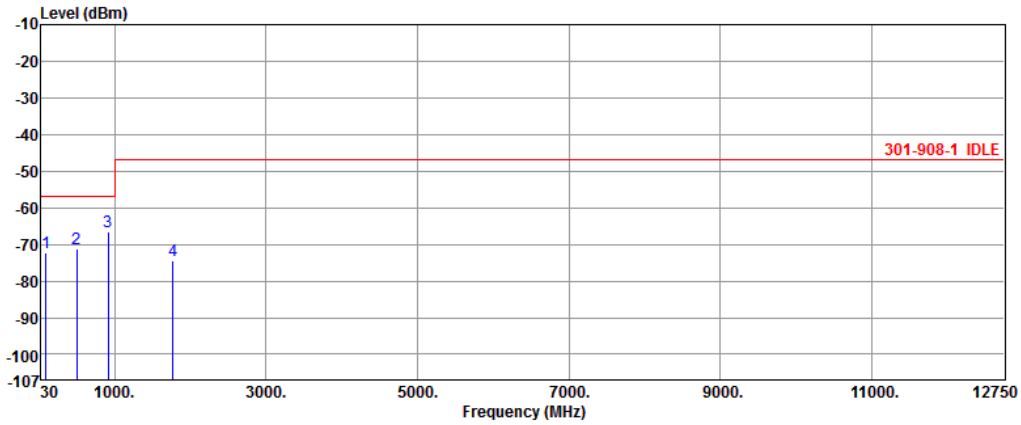
3.1.22 Radiated Emissions - Idle mode (LTE Band 8)

Test Channel (MHz)	885	Channel Bandwidth	10MHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	93.58	-72.97	-57.00	-15.97	-5.85	-67.12
2	596.77	-69.19	-57.00	-12.19	6.56	-75.75
3	937.34	-65.95	-57.00	-8.95	11.89	-77.84
4	1770.24	-74.19	-47.00	-27.19	-0.41	-73.78

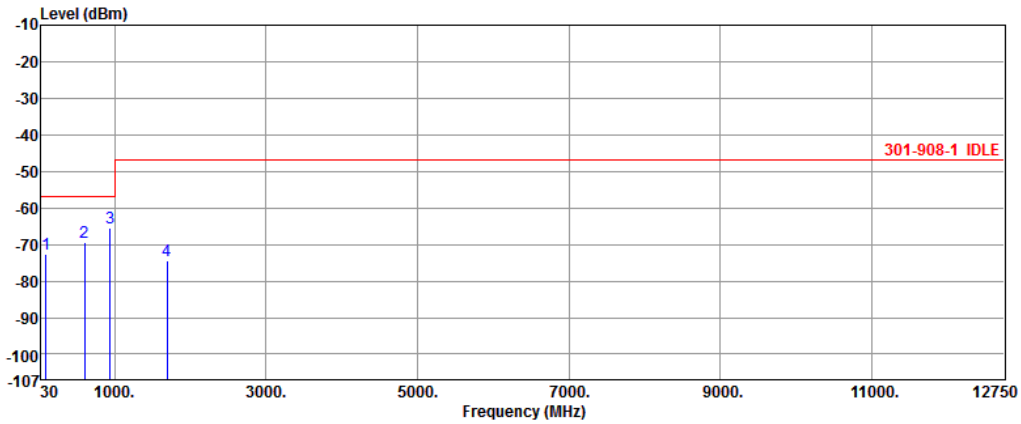
Test Channel (MHz)	885	Channel Bandwidth	10MHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	91.77	-72.22	-57.00	-15.22	-5.11	-67.11
2	496.29	-71.18	-57.00	-14.18	3.99	-75.17
3	909.37	-66.47	-57.00	-9.47	11.10	-77.57
4	1770.22	-74.31	-47.00	-27.31	-0.44	-73.87

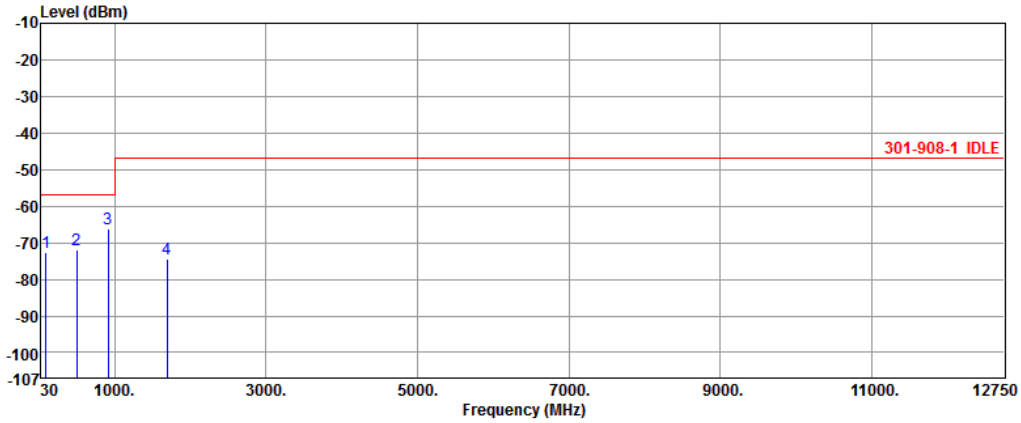
3.1.23 Radiated Emissions - Idle mode (LTE Band 20)

Test Channel (MHz)	847	Channel Bandwidth	20MHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	93.35	-72.56	-57.00	-15.56	-5.88	-66.68
2	598.24	-69.52	-57.00	-12.52	6.56	-76.08
3	934.69	-65.44	-57.00	-8.44	11.76	-77.20
4	1694.06	-74.38	-47.00	-27.38	-0.98	-73.40

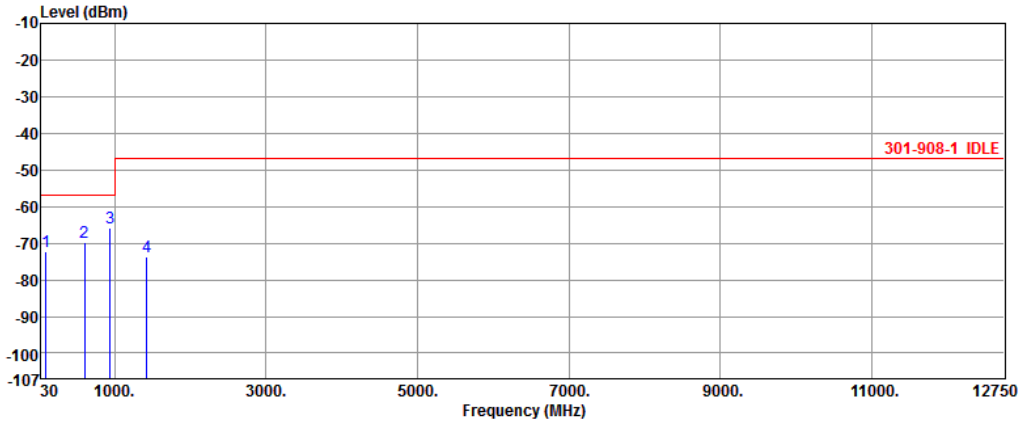
Test Channel (MHz)	847	Channel Bandwidth	20MHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	91.56	-72.57	-57.00	-15.57	-5.13	-67.44
2	499.74	-71.88	-57.00	-14.88	4.11	-75.99
3	908.24	-66.17	-57.00	-9.17	11.09	-77.26
4	1694.20	-74.29	-47.00	-27.29	-1.08	-73.21

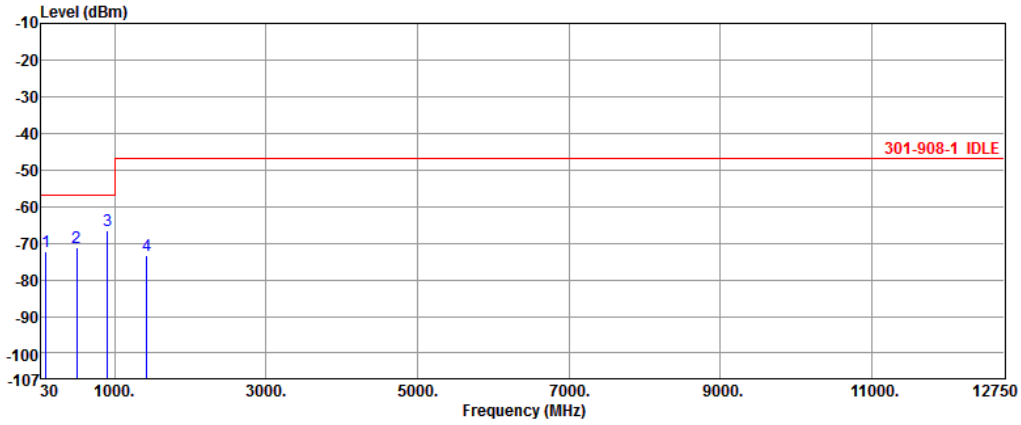
3.1.24 Radiated Emissions - Idle mode (LTE Band 28)

Test Channel (MHz)	713	Channel Bandwidth	20MHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	93.48	-72.12	-57.00	-15.12	-5.87	-66.25
2	599.42	-69.75	-57.00	-12.75	6.55	-76.30
3	936.78	-65.83	-57.00	-8.83	11.85	-77.68
4	1426.06	-73.57	-47.00	-26.57	-0.67	-72.90

Test Channel (MHz)	713	Channel Bandwidth	20MHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz

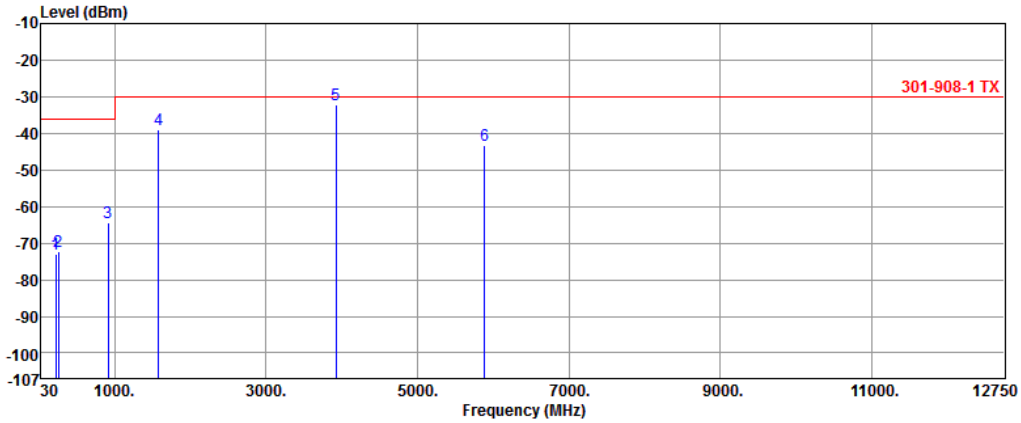


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	91.84	-72.11	-57.00	-15.11	-5.11	-67.00
2	495.37	-71.17	-57.00	-14.17	3.94	-75.11
3	904.56	-66.60	-57.00	-9.60	11.07	-77.67
4	1426.03	-73.35	-47.00	-26.35	-0.69	-72.66

Cat-M1_Configuration 3: EPM6985-001 antenna

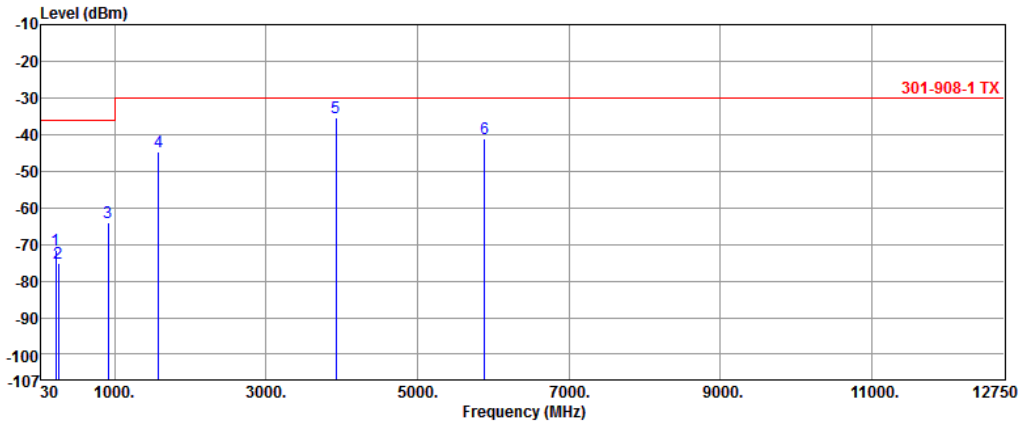
3.1.25 Radiated Emissions - traffic mode (LTE Band 1)

Test Channel (MHz)	1970	Channel Bandwidth	20MHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	218.18	-73.04	-36.00	-37.04	-3.85	-69.19
2	256.01	-72.42	-36.00	-36.42	-1.45	-70.97
3	908.82	-64.33	-36.00	-28.33	11.10	-75.43
4	1579.60	-38.96	-30.00	-8.96	-1.07	-37.89
5	3924.83	-32.28	-30.00	-2.28	8.41	-40.69
6	5887.17	-43.40	-30.00	-13.40	13.17	-56.57

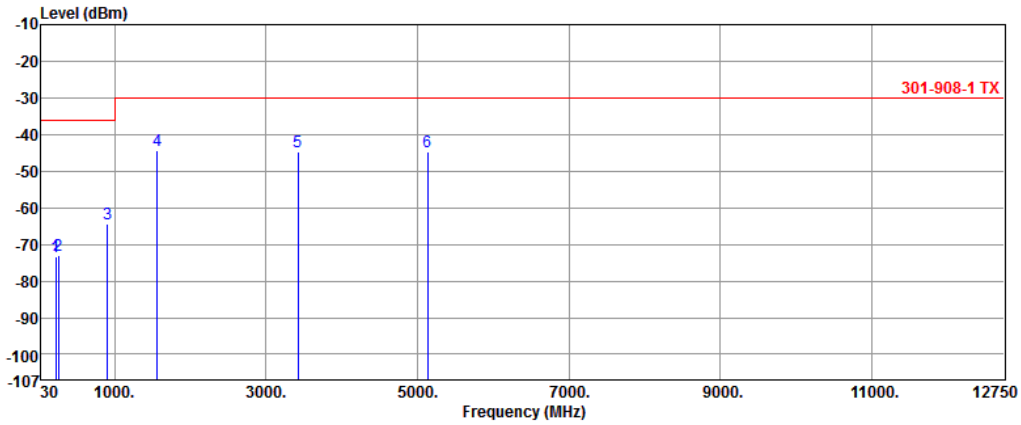
Test Channel (MHz)	1970	Channel Bandwidth	20MHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	218.18	-71.49	-36.00	-35.49	-4.11	-67.38
2	257.95	-75.20	-36.00	-39.20	-2.37	-72.83
3	908.82	-63.91	-36.00	-27.91	11.10	-75.01
4	1579.60	-44.79	-30.00	-14.79	-0.96	-43.83
5	3924.85	-35.41	-30.00	-5.41	8.15	-43.56
6	5887.06	-41.04	-30.00	-11.04	12.68	-53.72

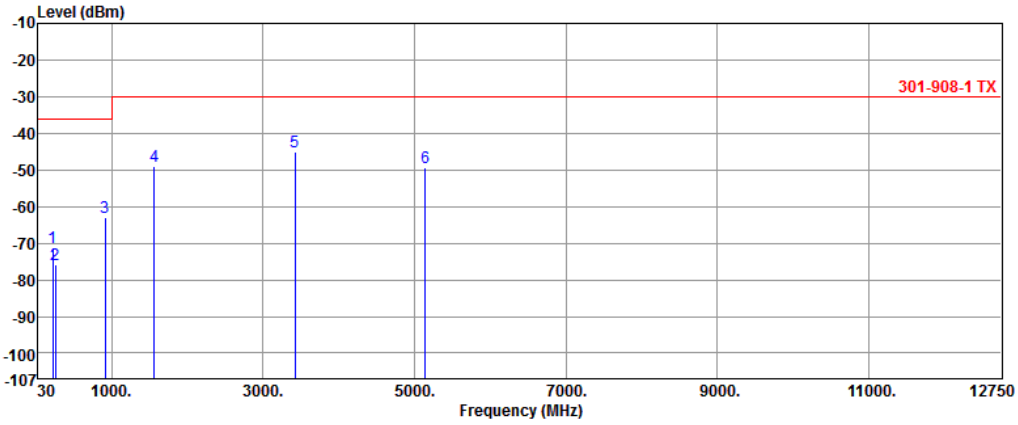
3.1.26 Radiated Emissions - traffic mode (LTE Band 3)

Test Channel (MHz)	1720	Channel Bandwidth	20MHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	218.29	-73.19	-36.00	-37.19	-3.84	-69.35
2	252.57	-72.97	-36.00	-36.97	-1.51	-71.46
3	901.66	-64.42	-36.00	-28.42	11.11	-75.53
4	1564.81	-44.54	-30.00	-14.54	-0.97	-43.57
5	3423.89	-44.75	-30.00	-14.75	6.12	-50.87
6	5135.60	-44.55	-30.00	-14.55	11.98	-56.53

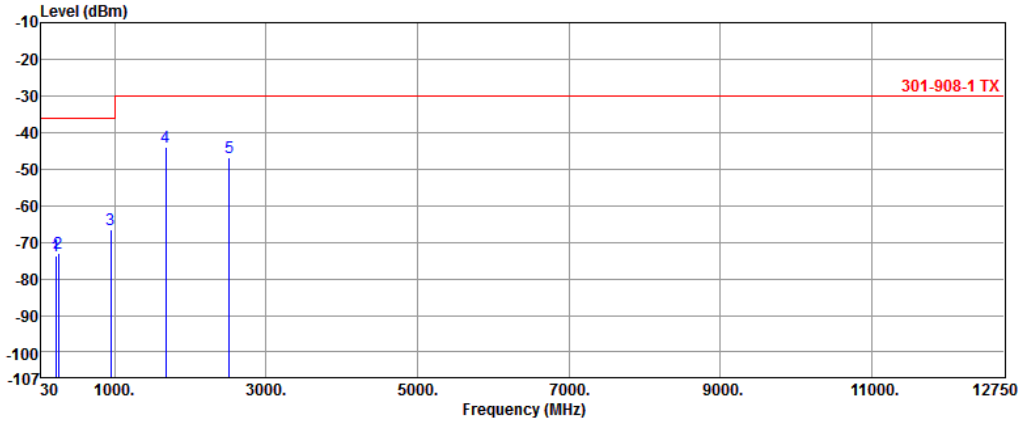
Test Channel (MHz)	1720	Channel Bandwidth	20MHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	218.32	-71.38	-36.00	-35.38	-4.11	-67.27
2	257.36	-75.83	-36.00	-39.83	-2.33	-73.50
3	908.67	-63.00	-36.00	-27.00	11.09	-74.09
4	1564.81	-49.04	-30.00	-19.04	-0.88	-48.16
5	3423.92	-45.11	-30.00	-15.11	5.76	-50.87
6	5136.23	-49.21	-30.00	-19.21	11.80	-61.01

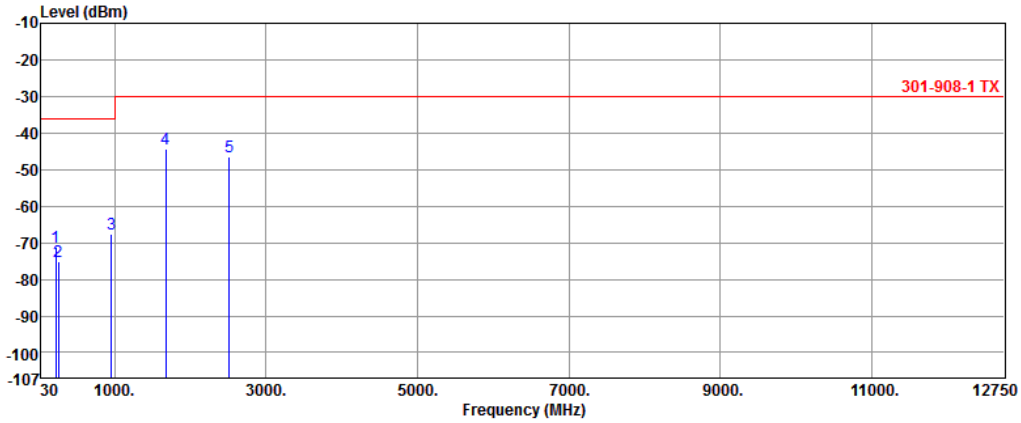
3.1.27 Radiated Emissions - traffic mode (LTE Band 20)

Test Channel (MHz)	847	Channel Bandwidth	20MHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	218.91	-73.56	-36.00	-37.56	-3.75	-69.81
2	252.45	-72.96	-36.00	-36.96	-1.51	-71.45
3	944.40	-66.58	-36.00	-30.58	12.04	-78.62
4	1676.85	-43.96	-30.00	-13.96	-1.02	-42.94
5	2515.48	-46.92	-30.00	-16.92	3.45	-50.37

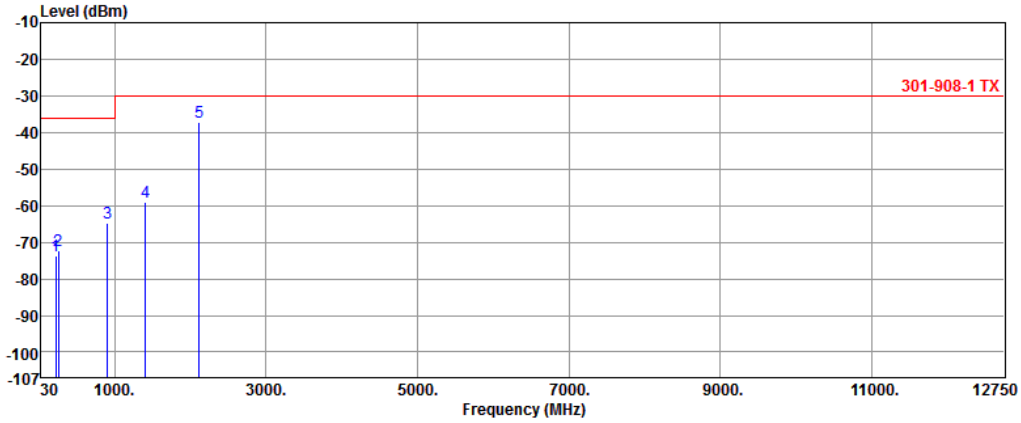
Test Channel (MHz)	847	Channel Bandwidth	20MHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	218.83	-71.15	-36.00	-35.15	-4.13	-67.02
2	257.93	-75.18	-36.00	-39.18	-2.37	-72.81
3	957.50	-67.64	-36.00	-31.64	11.55	-79.19
4	1677.00	-44.49	-30.00	-14.49	-1.08	-43.41
5	2515.21	-46.36	-30.00	-16.36	3.35	-49.71

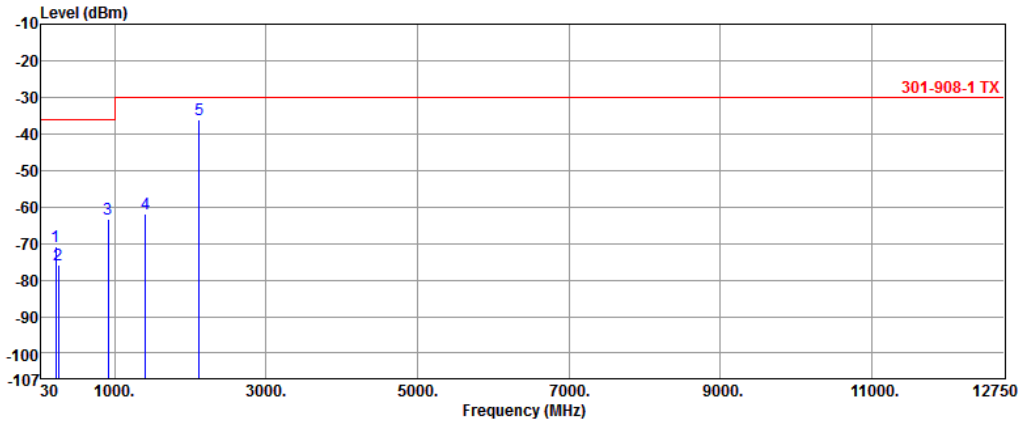
3.1.28 Radiated Emissions - traffic mode (LTE Band 28)

Test Channel (MHz)	713	Channel Bandwidth	20MHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	218.16	-73.80	-36.00	-37.80	-3.86	-69.94
2	252.98	-72.45	-36.00	-36.45	-1.49	-70.96
3	901.69	-64.62	-36.00	-28.62	11.11	-75.73
4	1408.96	-58.87	-30.00	-28.87	-0.70	-58.17
5	2113.37	-37.03	-30.00	-7.03	2.66	-39.69

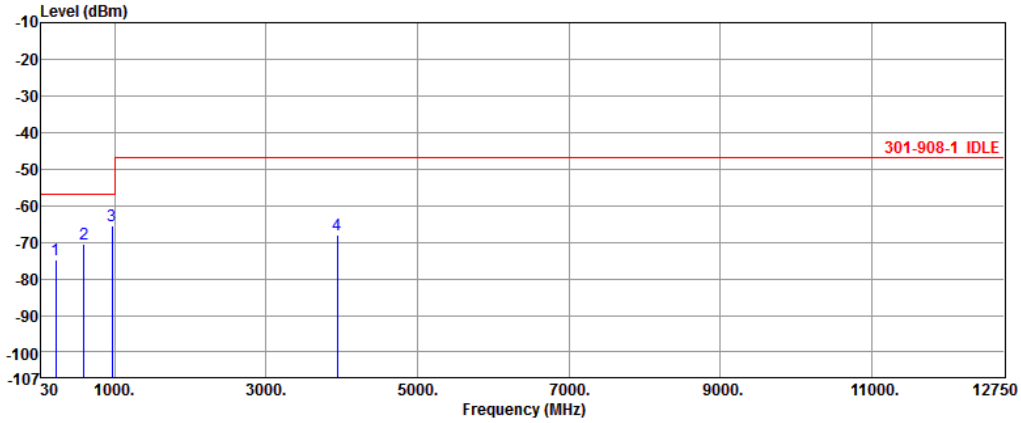
Test Channel (MHz)	713	Channel Bandwidth	20MHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	218.31	-71.02	-36.00	-35.02	-4.11	-66.91
2	257.32	-75.81	-36.00	-39.81	-2.32	-73.49
3	908.17	-63.19	-36.00	-27.19	11.09	-74.28
4	1408.93	-62.00	-30.00	-32.00	-0.72	-61.28
5	2113.36	-36.29	-30.00	-6.29	2.73	-39.02

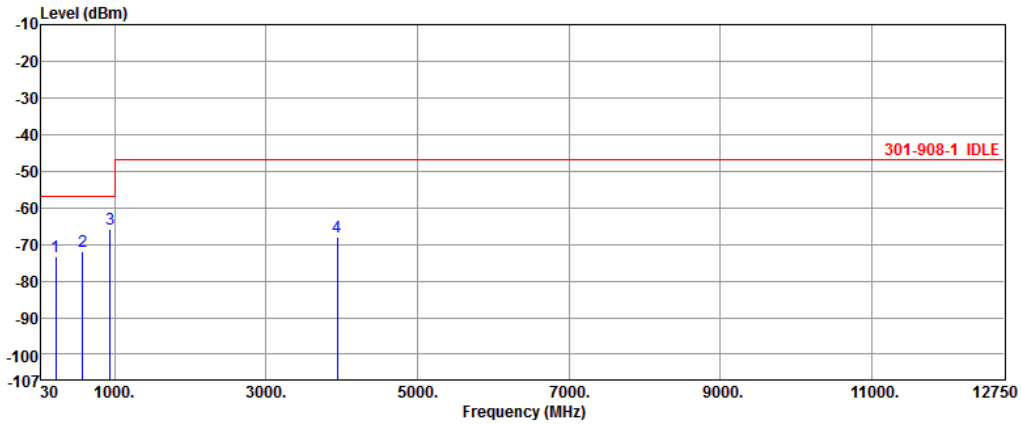
3.1.29 Radiated Emissions - Idle mode (LTE Band 1)

Test Channel (MHz)	1970	Channel Bandwidth	20MHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	219.15	-74.89	-57.00	-17.89	-3.72	-71.17
2	596.48	-70.47	-57.00	-13.47	6.56	-77.03
3	963.14	-65.60	-57.00	-8.60	11.84	-77.44
4	3940.21	-67.93	-47.00	-20.93	8.41	-76.34

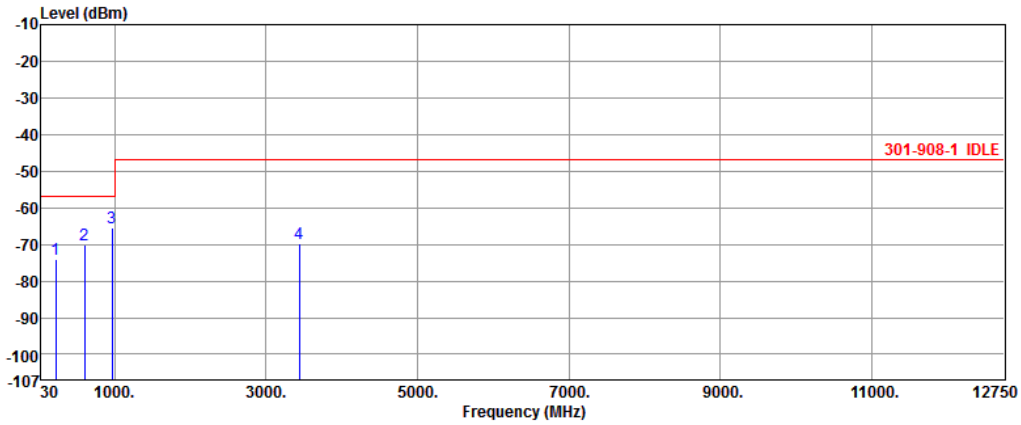
Test Channel (MHz)	1970	Channel Bandwidth	20MHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	218.18	-73.43	-57.00	-16.43	-4.11	-69.32
2	573.20	-71.80	-57.00	-14.80	4.98	-76.78
3	936.95	-65.83	-57.00	-8.83	11.50	-77.33
4	3940.17	-67.93	-47.00	-20.93	8.13	-76.06

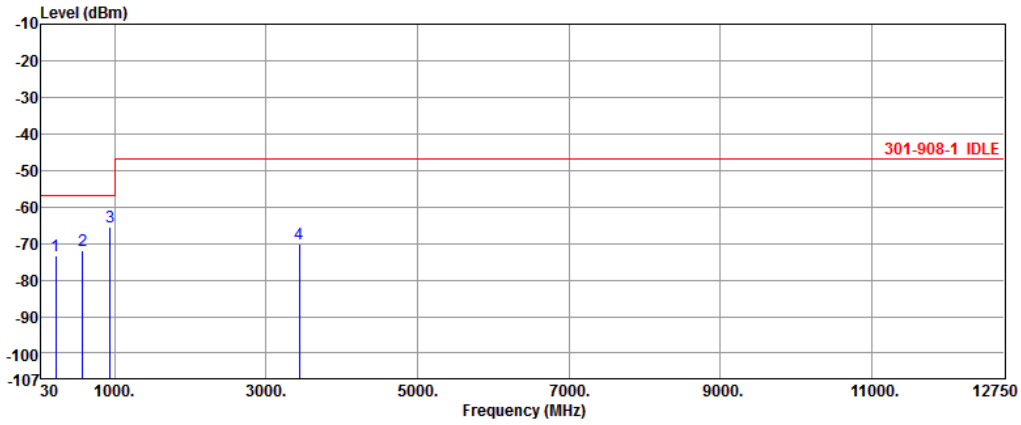
3.1.30 Radiated Emissions - Idle mode (LTE Band 3)

Test Channel (MHz)	1720	Channel Bandwidth	20MHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	219.61	-74.16	-57.00	-17.16	-3.67	-70.49
2	597.62	-70.03	-57.00	-13.03	6.56	-76.59
3	965.31	-65.41	-57.00	-8.41	11.90	-77.31
4	3440.15	-69.82	-47.00	-22.82	6.26	-76.08

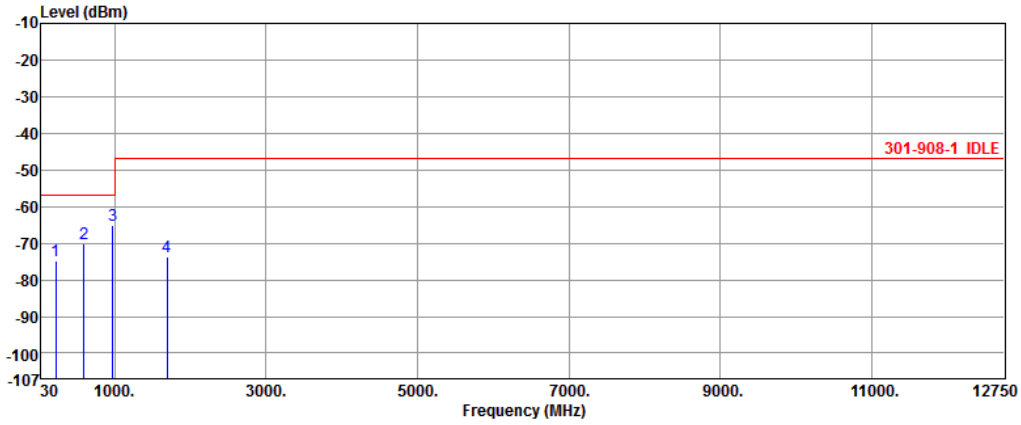
Test Channel (MHz)	1720	Channel Bandwidth	20MHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	218.82	-73.32	-57.00	-16.32	-4.13	-69.19
2	574.48	-71.78	-57.00	-14.78	5.05	-76.83
3	937.27	-65.33	-57.00	-8.33	11.52	-76.85
4	3440.09	-70.19	-47.00	-23.19	5.87	-76.06

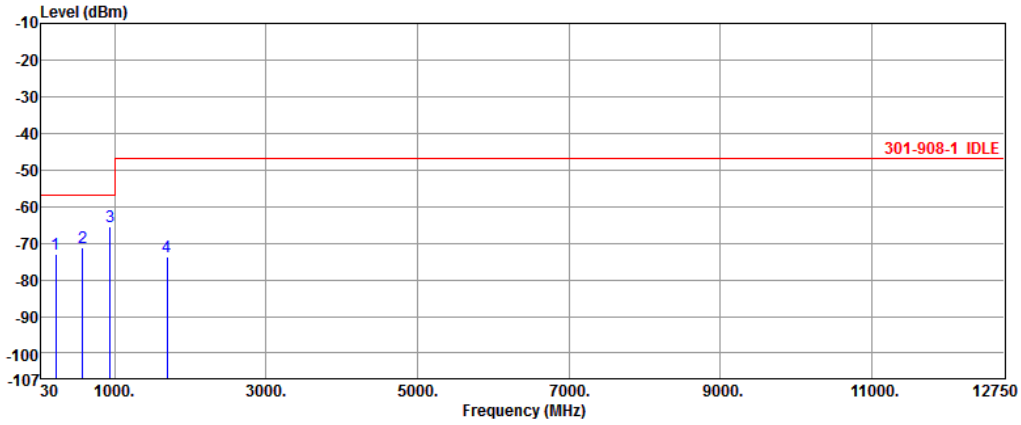
3.1.31 Radiated Emissions - Idle mode (LTE Band 20)

Test Channel (MHz)	847	Channel Bandwidth	20MHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	219.77	-74.76	-57.00	-17.76	-3.65	-71.11
2	596.34	-70.10	-57.00	-13.10	6.56	-76.66
3	968.95	-65.20	-57.00	-8.20	11.89	-77.09
4	1693.96	-73.79	-47.00	-26.79	-0.98	-72.81

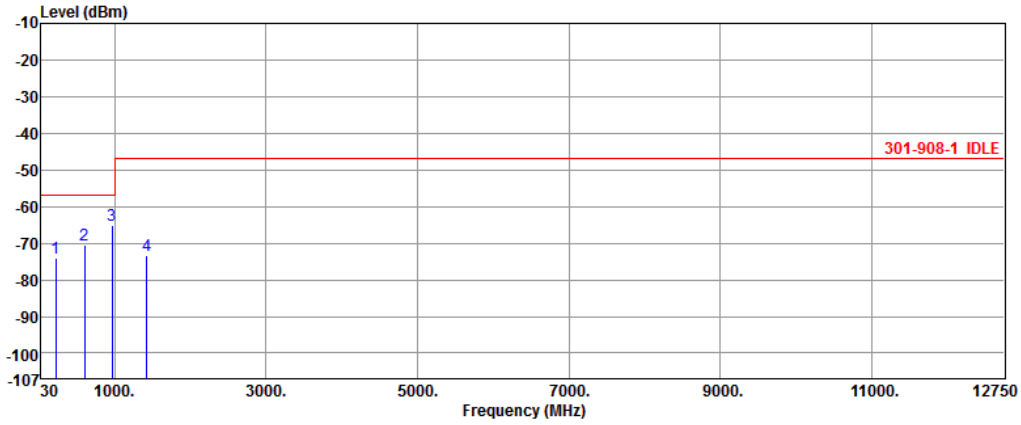
Test Channel (MHz)	847	Channel Bandwidth	20MHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	218.22	-73.07	-57.00	-16.07	-4.12	-68.95
2	577.25	-71.30	-57.00	-14.30	5.30	-76.60
3	938.13	-65.43	-57.00	-8.43	11.55	-76.98
4	1694.10	-73.55	-47.00	-26.55	-1.08	-72.47

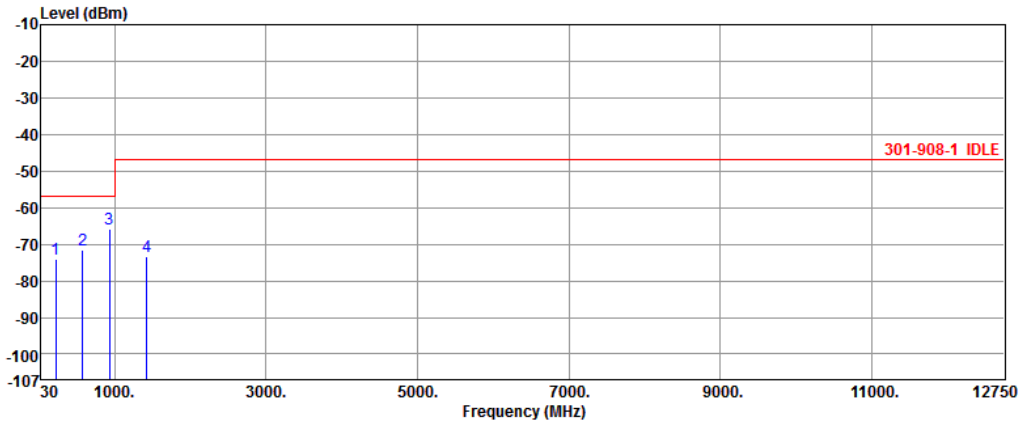
3.1.32 Radiated Emissions - Idle mode (LTE Band 28)

Test Channel (MHz)	713	Channel Bandwidth	20MHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	219.92	-74.11	-57.00	-17.11	-3.63	-70.48
2	599.11	-70.66	-57.00	-13.66	6.55	-77.21
3	965.45	-65.08	-57.00	-8.08	11.90	-76.98
4	1426.23	-73.43	-47.00	-26.43	-0.67	-72.76

Test Channel (MHz)	713	Channel Bandwidth	20MHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz

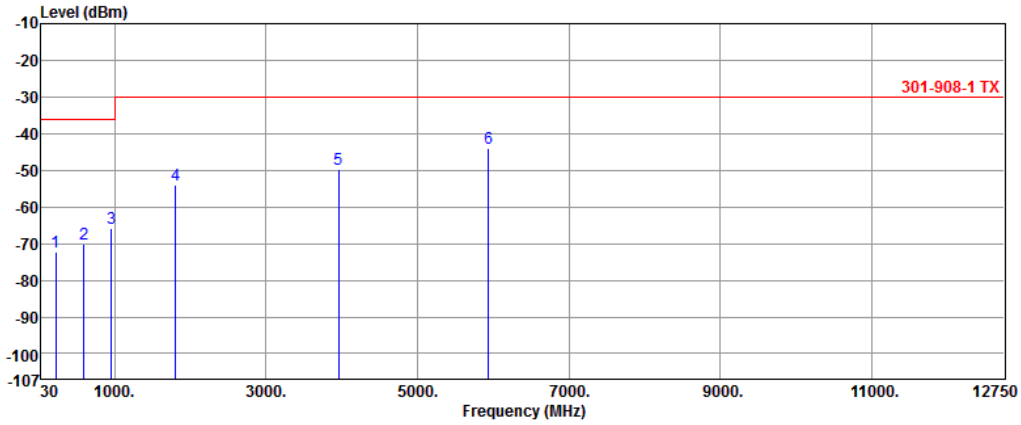


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	218.97	-73.96	-57.00	-16.96	-4.14	-69.82
2	573.79	-71.61	-57.00	-14.61	5.01	-76.62
3	931.26	-65.98	-57.00	-8.98	11.64	-77.62
4	1425.87	-73.48	-47.00	-26.48	-0.69	-72.79

NB-IoT_ Configuration 1: DBA6927C1 antenna - Guard band

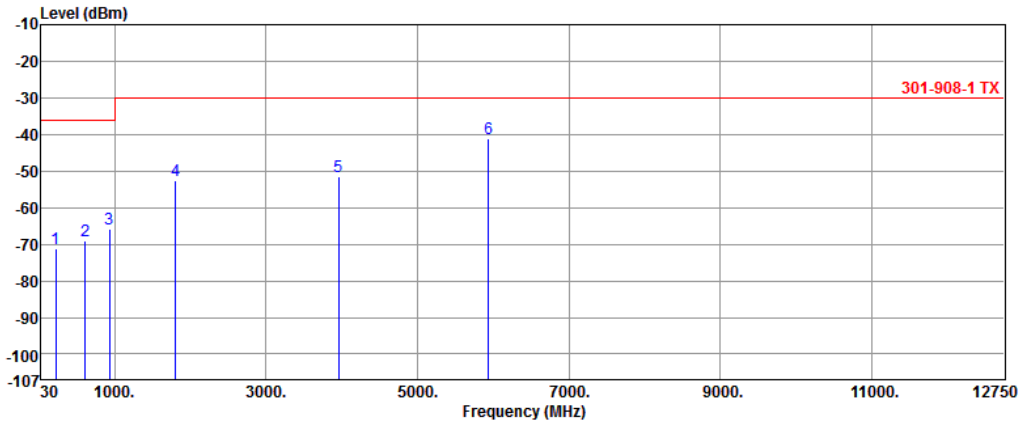
3.1.33 Radiated Emissions - traffic mode (LTE Band 1)

Test Channel (MHz)	1979.9	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	218.70	-72.35	-36.00	-36.35	-3.78	-68.57
2	594.12	-70.17	-36.00	-34.17	6.54	-76.71
3	956.35	-65.99	-36.00	-29.99	11.85	-77.84
4	1804.95	-53.88	-30.00	-23.88	-0.13	-53.75
5	3959.84	-49.59	-30.00	-19.59	8.42	-58.01
6	5939.95	-43.83	-30.00	-13.83	13.02	-56.85

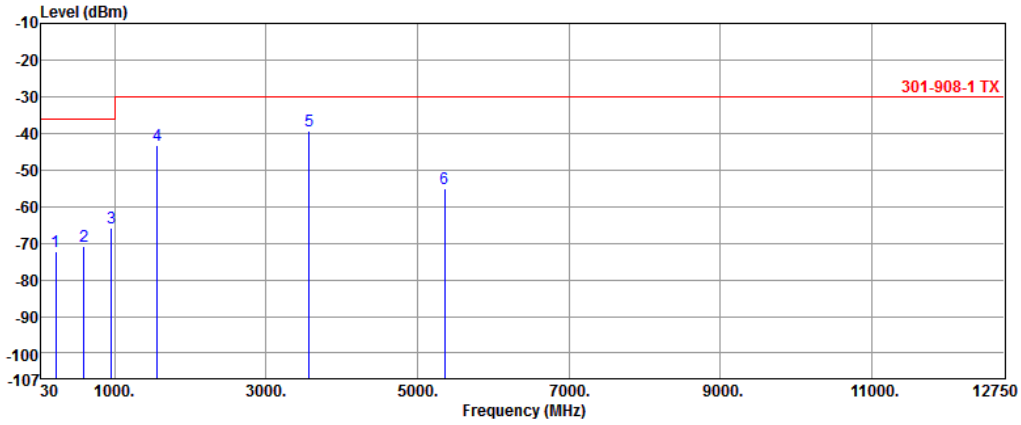
Test Channel (MHz)	1979.9	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	217.69	-71.18	-36.00	-35.18	-4.09	-67.09
2	609.54	-69.16	-36.00	-33.16	7.21	-76.37
3	930.87	-65.74	-36.00	-29.74	11.66	-77.40
4	1804.84	-52.75	-30.00	-22.75	-0.13	-52.62
5	3959.99	-51.53	-30.00	-21.53	8.11	-59.64
6	5939.78	-40.98	-30.00	-10.98	12.66	-53.64

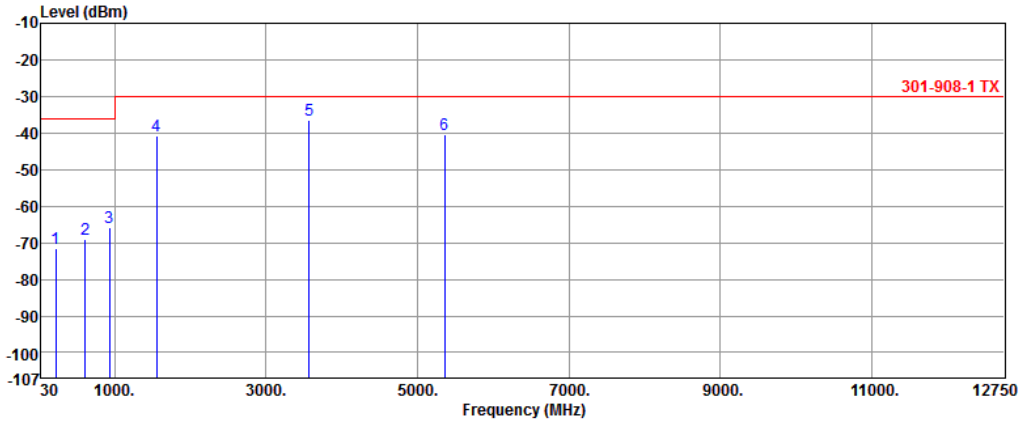
3.1.34 Radiated Emissions - traffic mode (LTE Band 3)

Test Channel (MHz)	1784.9	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	218.54	-72.35	-36.00	-36.35	-3.80	-68.55
2	594.54	-70.88	-36.00	-34.88	6.55	-77.43
3	956.32	-65.76	-36.00	-29.76	11.85	-77.61
4	1563.35	-43.22	-30.00	-13.22	-0.96	-42.26
5	3569.99	-39.23	-30.00	-9.23	7.10	-46.33
6	5354.58	-55.14	-30.00	-25.14	11.72	-66.86

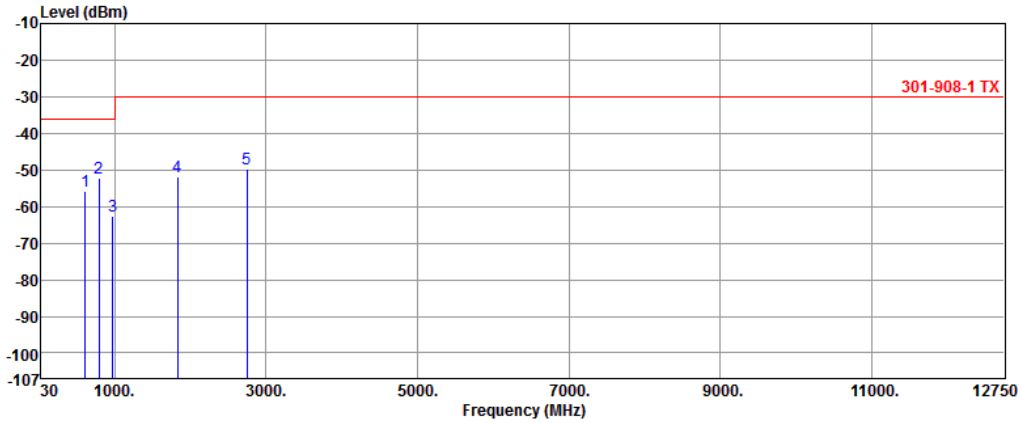
Test Channel (MHz)	1784.9	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	217.00	-71.50	-36.00	-35.50	-4.06	-67.44
2	609.87	-69.20	-36.00	-33.20	7.23	-76.43
3	930.21	-65.88	-36.00	-29.88	11.70	-77.58
4	1552.74	-40.75	-30.00	-10.75	-0.81	-39.94
5	3569.59	-36.63	-30.00	-6.63	6.83	-43.46
6	5354.35	-40.28	-30.00	-10.28	11.50	-51.78

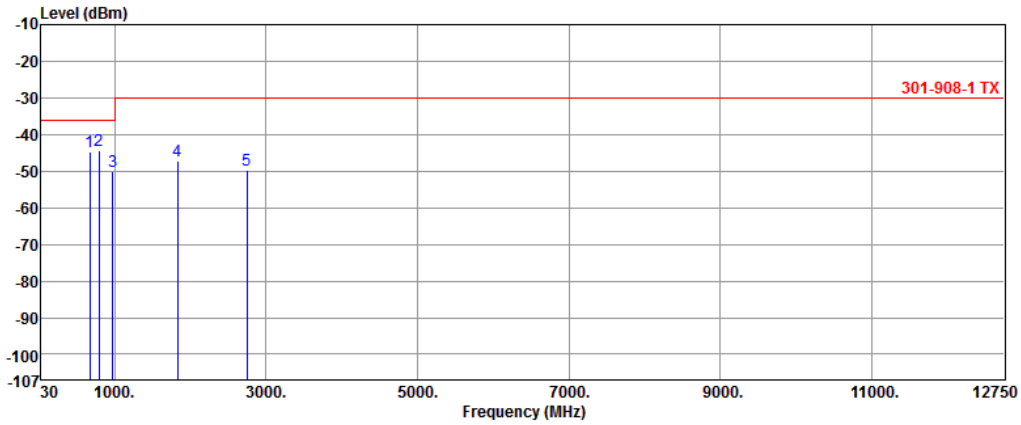
3.1.35 Radiated Emissions - traffic mode (LTE Band 8)

Test Channel (MHz)	914.9	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	607.15	-55.73	-36.00	-19.73	6.81	-62.54
2	789.51	-52.08	-36.00	-16.08	9.37	-61.45
3	971.87	-62.63	-36.00	-26.63	11.81	-74.44
4	1829.55	-51.78	-30.00	-21.78	0.05	-51.83
5	2744.54	-49.79	-30.00	-19.79	4.18	-53.97

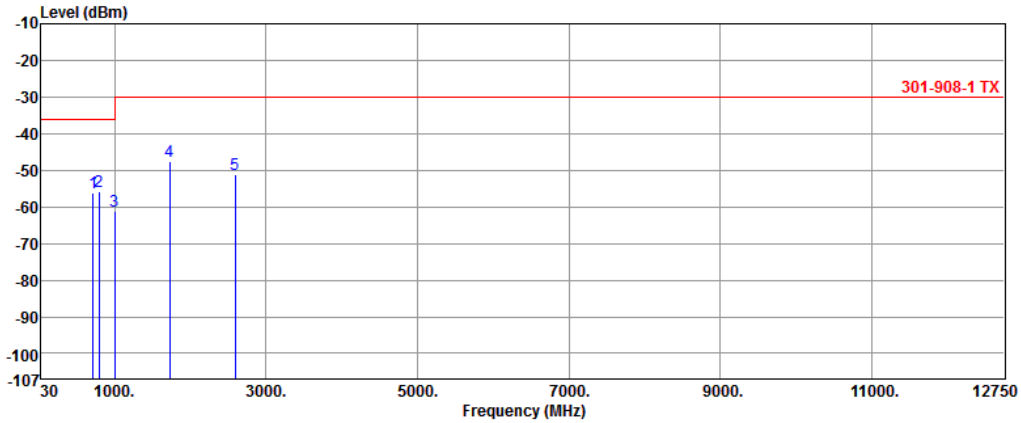
Test Channel (MHz)	914.9	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	668.26	-44.69	-36.00	-8.69	6.80	-51.49
2	789.51	-44.30	-36.00	-8.30	9.12	-53.42
3	971.87	-50.15	-36.00	-14.15	11.76	-61.91
4	1829.41	-47.36	-30.00	-17.36	0.05	-47.41
5	2744.99	-49.64	-30.00	-19.64	3.99	-53.63

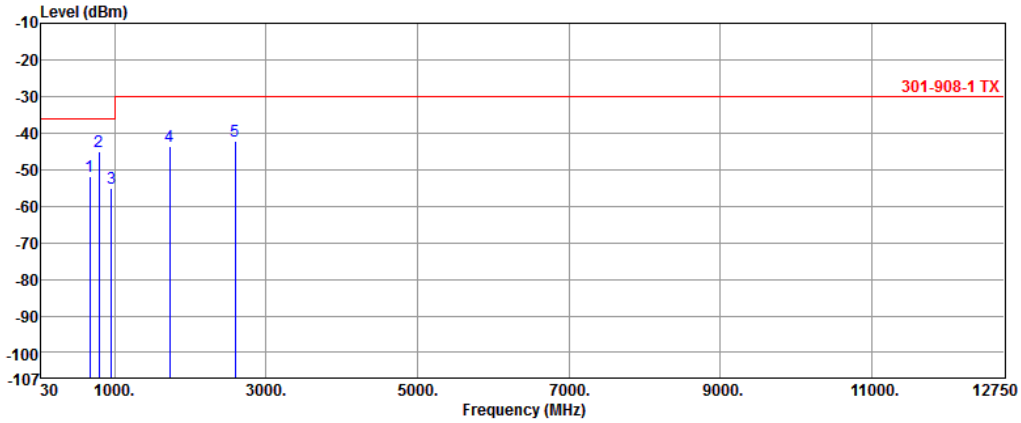
3.1.36 Radiated Emissions - traffic mode (LTE Band 20)

Test Channel (MHz)	861.885	Sub Carrier Spacing	3.75kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	710.21	-56.12	-36.00	-20.12	7.64	-63.76
2	789.21	-55.99	-36.00	-19.99	9.38	-65.37
3	996.11	-61.24	-36.00	-25.24	12.03	-73.27
4	1723.87	-47.48	-30.00	-17.48	-0.77	-46.71
5	2585.85	-51.21	-30.00	-21.21	3.89	-55.10

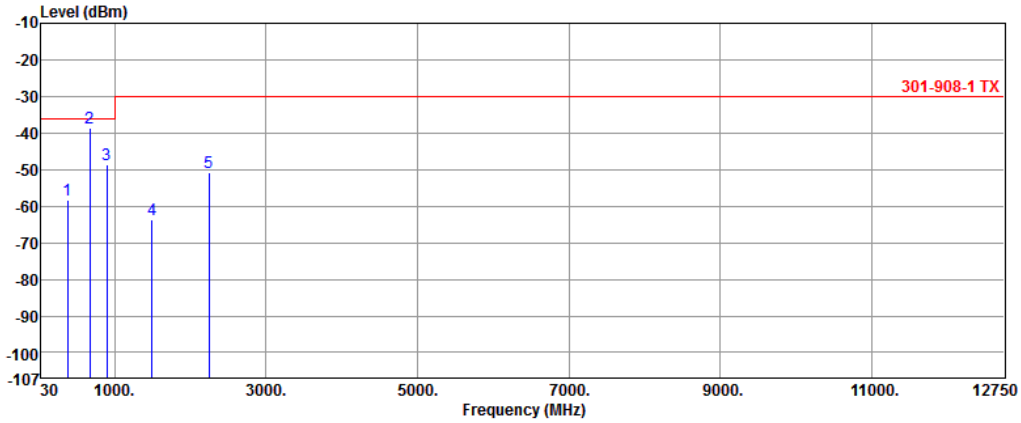
Test Channel (MHz)	861.885	Sub Carrier Spacing	3.75kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	668.55	-51.87	-36.00	-15.87	6.81	-58.68
2	789.12	-45.15	-36.00	-9.15	9.13	-54.28
3	953.21	-55.20	-36.00	-19.20	11.58	-66.78
4	1723.84	-43.50	-30.00	-13.50	-0.86	-42.64
5	2585.74	-42.31	-30.00	-12.31	3.71	-46.02

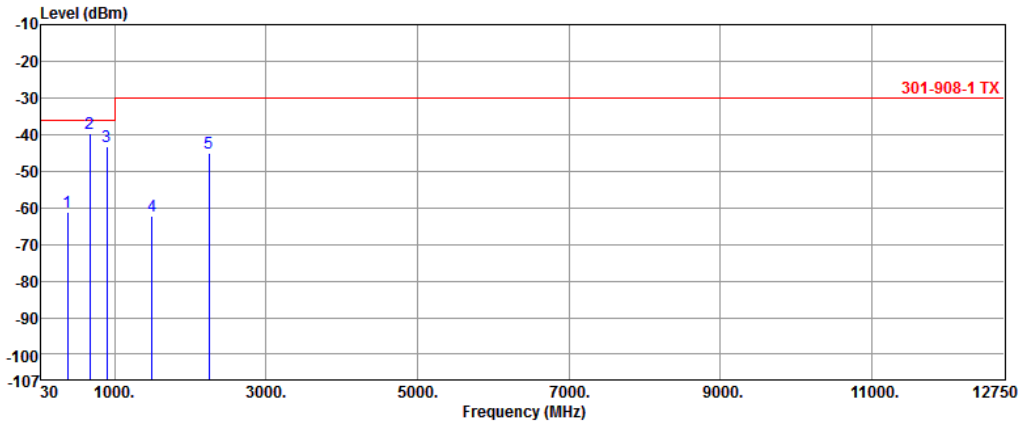
3.1.37 Radiated Emissions - traffic mode (LTE Band 28)

Test Channel (MHz)	747.9	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	373.84	-58.32	-36.00	-22.32	0.63	-58.95
2	673.12	-38.69	-36.00	-2.69	7.34	-46.03
3	897.32	-48.56	-36.00	-12.56	10.97	-59.53
4	1495.84	-63.54	-30.00	-33.54	-0.51	-63.03
5	2243.64	-50.78	-30.00	-20.78	3.77	-54.55

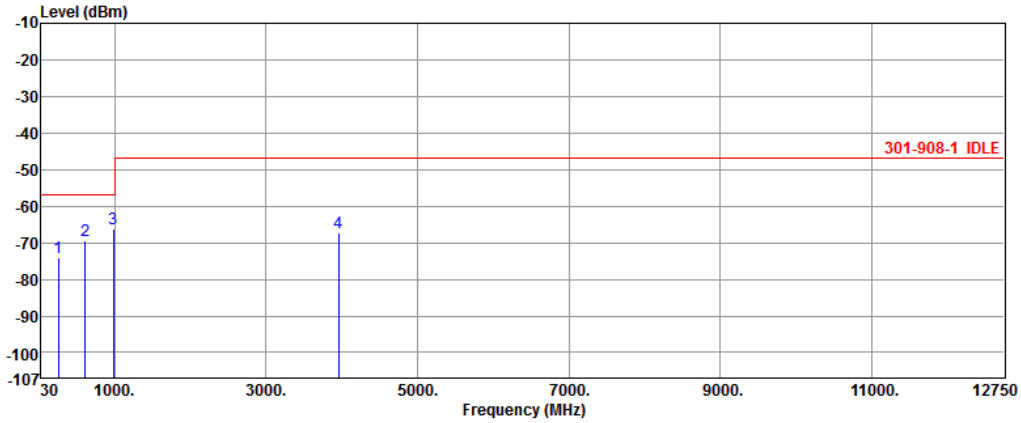
Test Channel (MHz)	747.9	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	374.10	-61.24	-36.00	-25.24	1.17	-62.41
2	673.51	-39.56	-36.00	-3.56	6.85	-46.41
3	897.14	-43.19	-36.00	-7.19	10.92	-54.11
4	1495.87	-62.13	-30.00	-32.13	-0.53	-61.60
5	2243.47	-44.95	-30.00	-14.95	3.77	-48.72

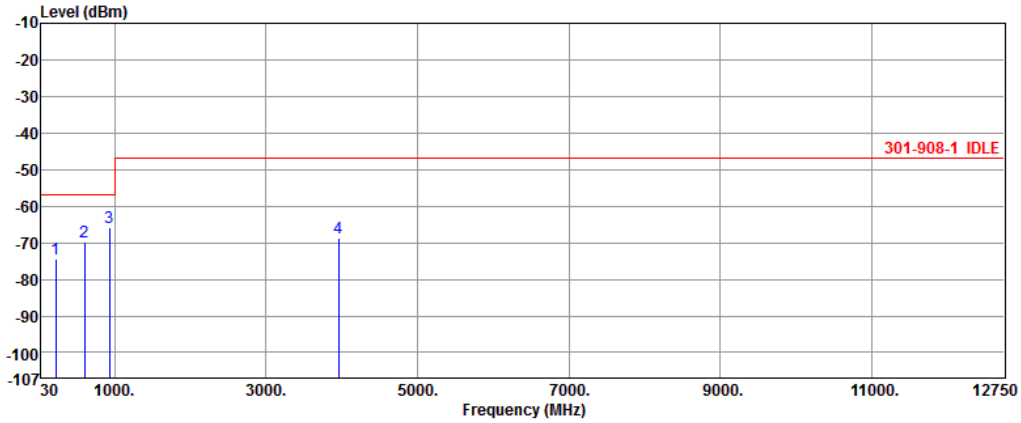
3.1.38 Radiated Emissions - Idle mode (LTE Band 1)

Test Channel (MHz)	1979.9	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	255.87	-74.18	-57.00	-17.18	-1.44	-72.74
2	610.87	-69.32	-57.00	-12.32	6.94	-76.26
3	982.87	-66.14	-57.00	-9.14	11.94	-78.08
4	3959.52	-67.42	-47.00	-20.42	8.42	-75.84

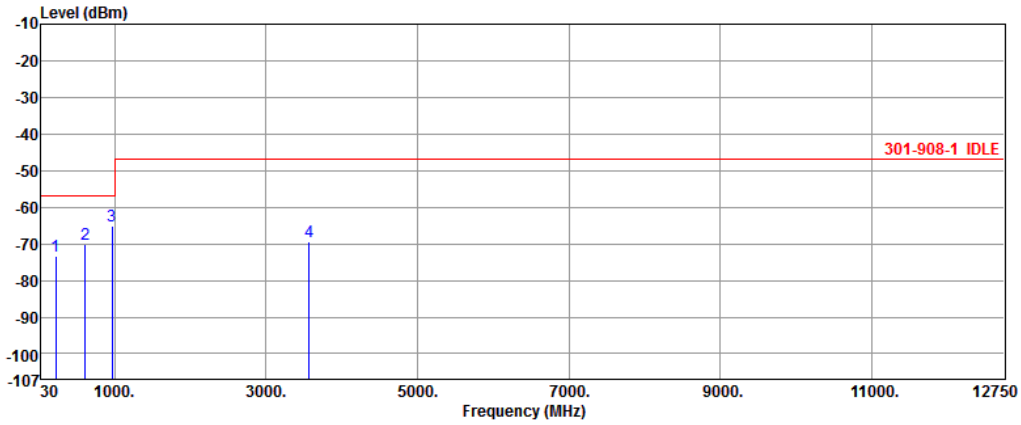
Test Channel (MHz)	1979.9	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	216.87	-74.35	-57.00	-17.35	-4.06	-70.29
2	596.87	-69.87	-57.00	-12.87	6.53	-76.40
3	930.59	-66.01	-57.00	-9.01	11.68	-77.69
4	3959.54	-68.75	-47.00	-21.75	8.11	-76.86

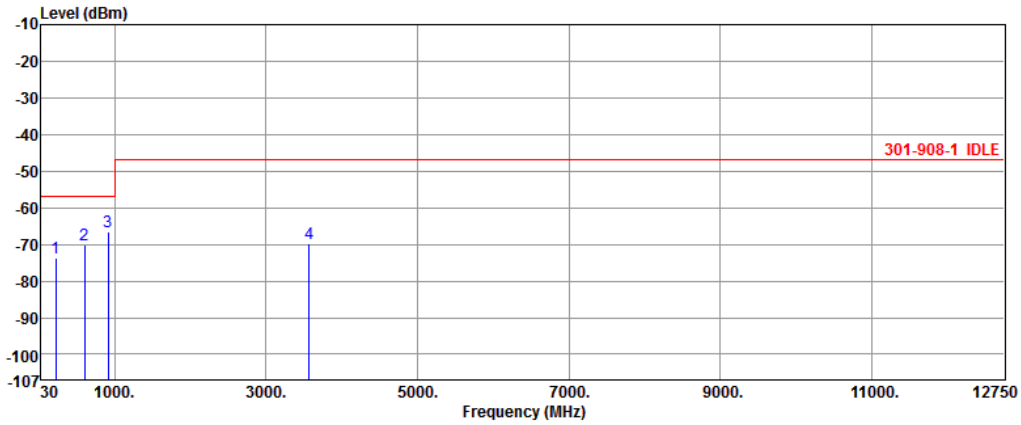
3.1.39 Radiated Emissions - Idle mode (LTE Band 3)

Test Channel (MHz)	1784.9	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	219.85	-73.35	-57.00	-16.35	-3.64	-69.71
2	606.87	-70.16	-57.00	-13.16	6.80	-76.96
3	966.87	-65.15	-57.00	-8.15	11.89	-77.04
4	3569.37	-69.59	-47.00	-22.59	7.10	-76.69

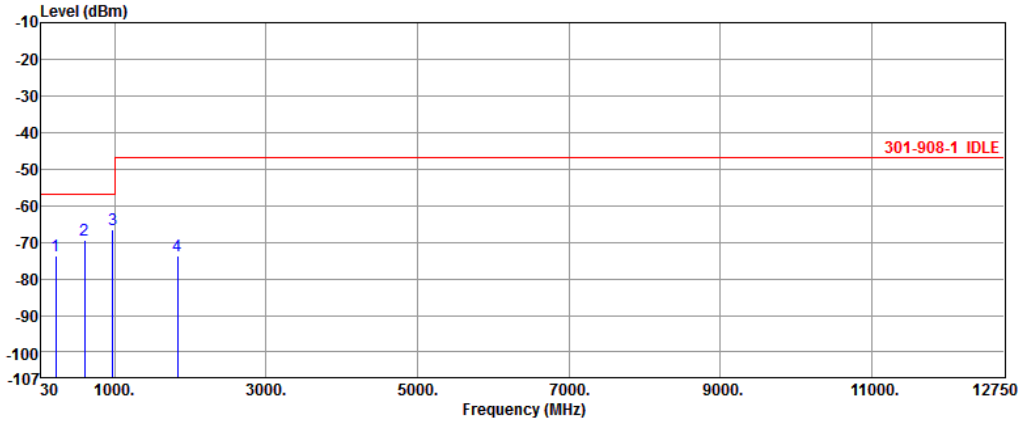
Test Channel (MHz)	1784.9	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	217.25	-73.85	-57.00	-16.85	-4.08	-69.77
2	603.52	-70.14	-57.00	-13.14	6.95	-77.09
3	907.99	-66.65	-57.00	-9.65	11.09	-77.74
4	3569.37	-69.74	-47.00	-22.74	6.83	-76.57

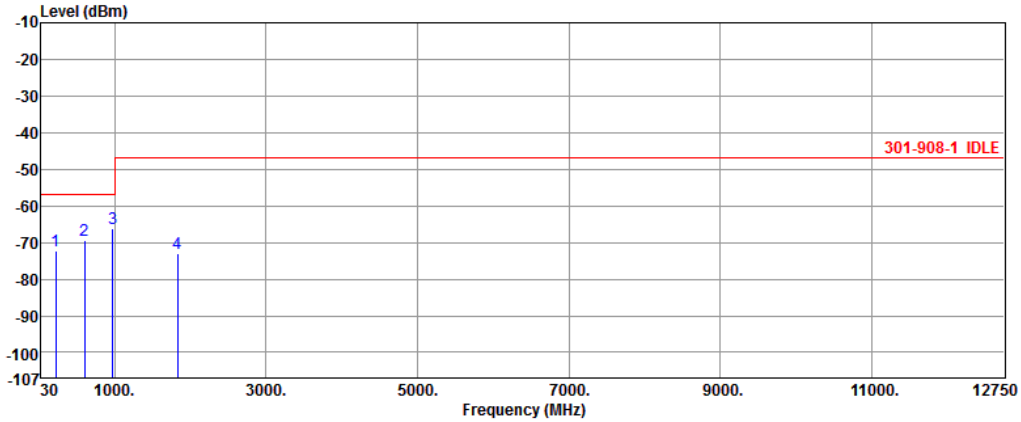
3.1.40 Radiated Emissions - Idle mode (LTE Band 8)

Test Channel (MHz)	914.9	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	220.87	-73.62	-57.00	-16.62	-3.80	-69.82
2	600.96	-69.32	-57.00	-12.32	6.58	-75.90
3	972.12	-66.52	-57.00	-9.52	11.80	-78.32
4	1829.12	-73.58	-47.00	-26.58	0.05	-73.63

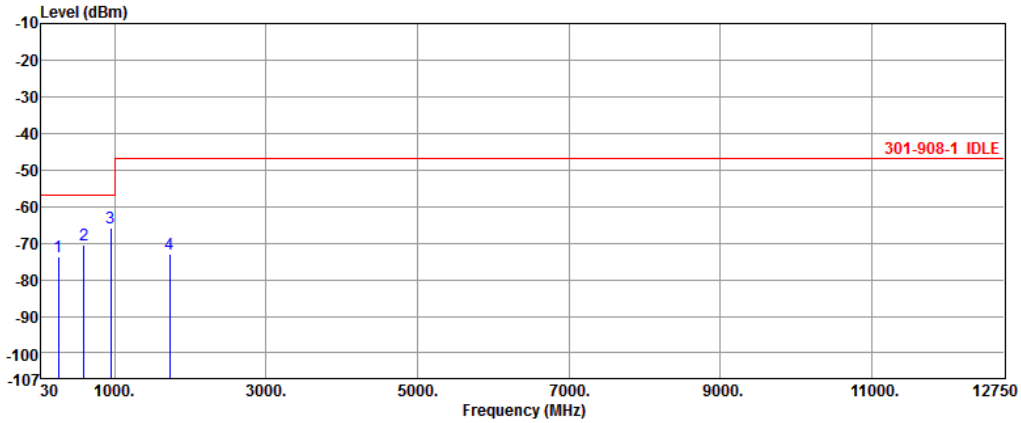
Test Channel (MHz)	914.9	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	217.70	-72.13	-57.00	-15.13	-4.09	-68.04
2	598.54	-69.41	-57.00	-12.41	6.61	-76.02
3	971.12	-66.33	-57.00	-9.33	11.78	-78.11
4	1829.52	-73.16	-47.00	-26.16	0.05	-73.21

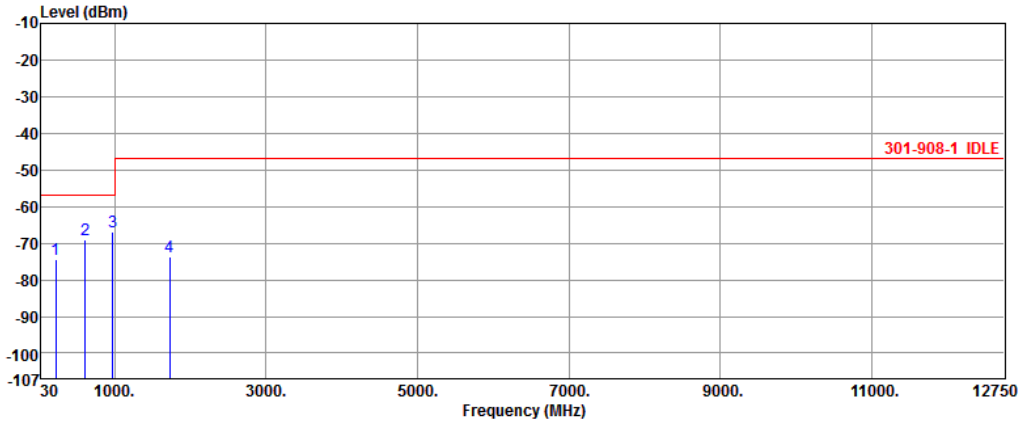
3.1.41 Radiated Emissions - Idle mode (LTE Band 20)

Test Channel (MHz)	861.885	Sub Carrier Spacing	3.75kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	256.35	-73.88	-57.00	-16.88	-1.45	-72.43
2	594.21	-70.42	-57.00	-13.42	6.54	-76.96
3	946.65	-65.88	-57.00	-8.88	12.04	-77.92
4	1723.36	-73.16	-47.00	-26.16	-0.77	-72.39

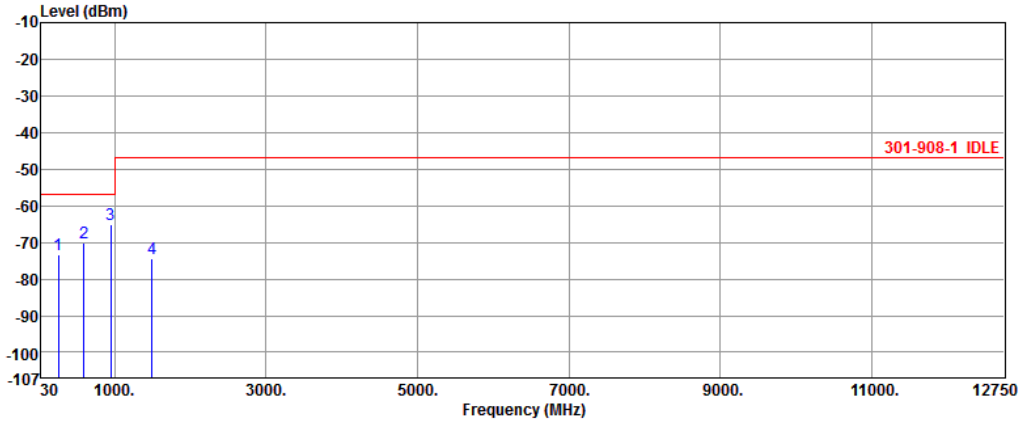
Test Channel (MHz)	861.885	Sub Carrier Spacing	3.75kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	217.21	-74.57	-57.00	-17.57	-4.07	-70.50
2	606.12	-69.12	-57.00	-12.12	7.10	-76.22
3	972.87	-66.74	-57.00	-9.74	11.75	-78.49
4	1723.21	-73.58	-47.00	-26.58	-0.87	-72.71

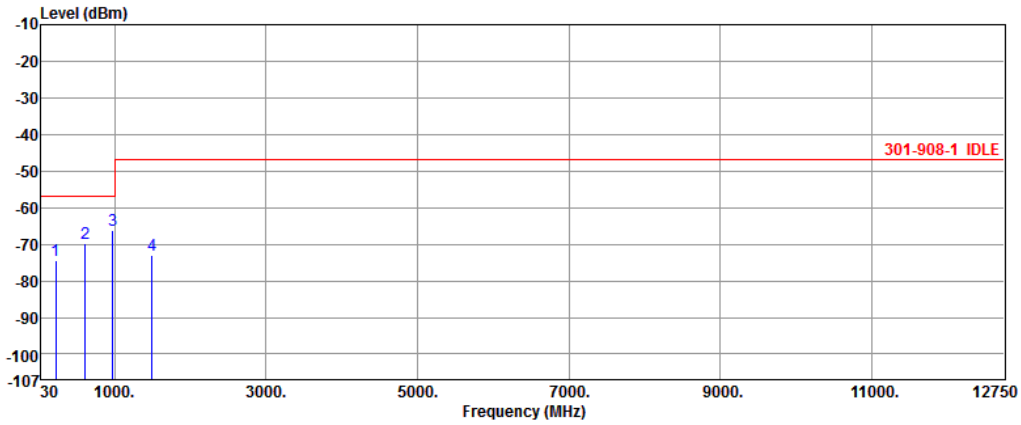
3.1.42 Radiated Emissions - Idle mode (LTE Band 28)

Test Channel (MHz)	747.9	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	256.40	-73.33	-57.00	-16.33	-1.45	-71.88
2	594.14	-70.16	-57.00	-13.16	6.54	-76.70
3	946.59	-65.13	-57.00	-8.13	12.04	-77.17
4	1495.21	-74.54	-47.00	-27.54	-0.51	-74.03

Test Channel (MHz)	747.9	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz

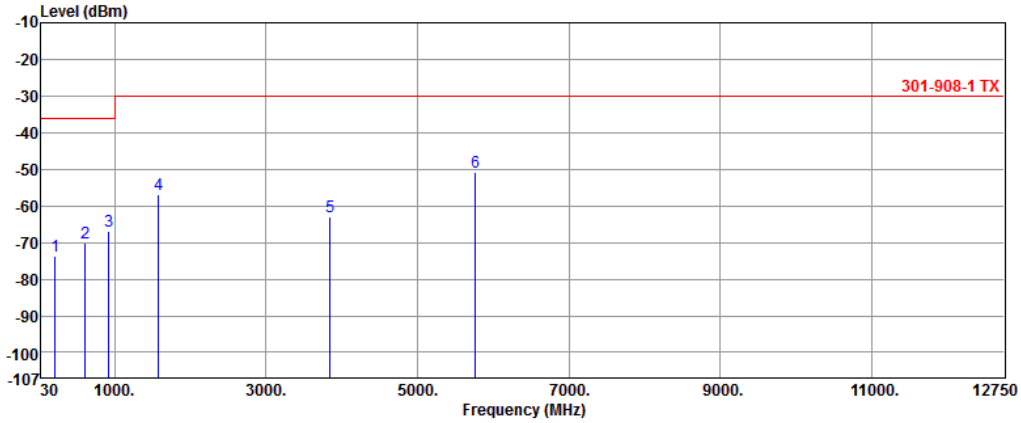


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	217.54	-74.46	-57.00	-17.46	-4.09	-70.37
2	606.24	-69.66	-57.00	-12.66	7.10	-76.76
3	972.41	-66.13	-57.00	-9.13	11.75	-77.88
4	1495.33	-73.13	-47.00	-26.13	-0.53	-72.60

NB-IoT_ Configuration 1: DBA6927C1 antenna _In-band

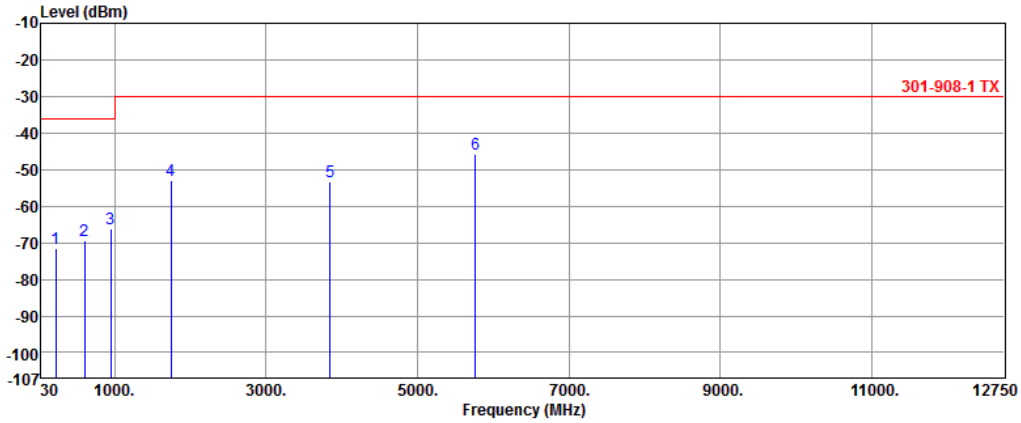
3.1.43 Radiated Emissions - traffic mode (LTE Band 1)

Test Channel (MHz)	1920.7	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	216.03	-73.85	-36.00	-37.85	-4.12	-69.73
2	606.59	-70.02	-36.00	-34.02	6.79	-76.81
3	923.09	-66.97	-36.00	-30.97	11.43	-78.40
4	1580.46	-57.02	-30.00	-27.02	-1.08	-55.94
5	3841.87	-62.83	-30.00	-32.83	8.24	-71.07
6	5761.98	-50.89	-30.00	-20.89	12.60	-63.49

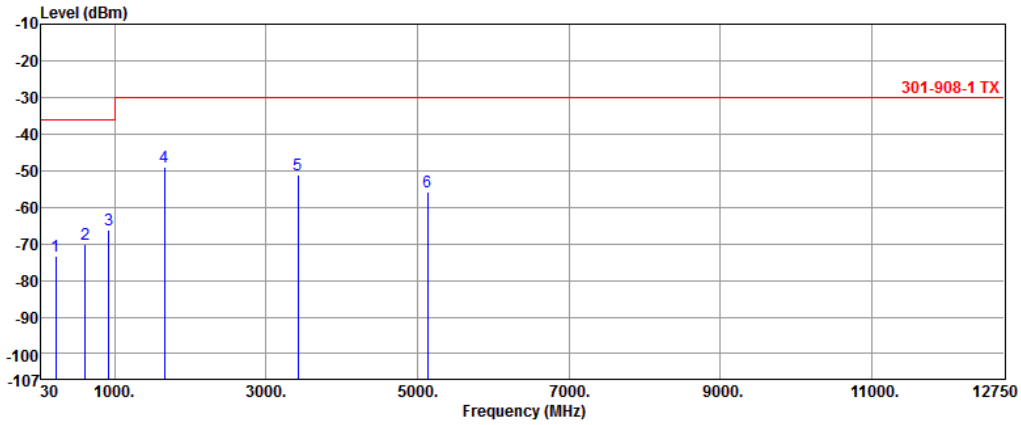
Test Channel (MHz)	1920.7	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	216.24	-71.45	-36.00	-35.45	-4.03	-67.42
2	604.69	-69.42	-36.00	-33.42	7.04	-76.46
3	944.87	-66.12	-36.00	-30.12	11.60	-77.72
4	1745.60	-53.09	-30.00	-23.09	-0.67	-52.42
5	3841.32	-53.34	-30.00	-23.34	8.10	-61.44
6	5761.78	-45.65	-30.00	-15.65	12.62	-58.27

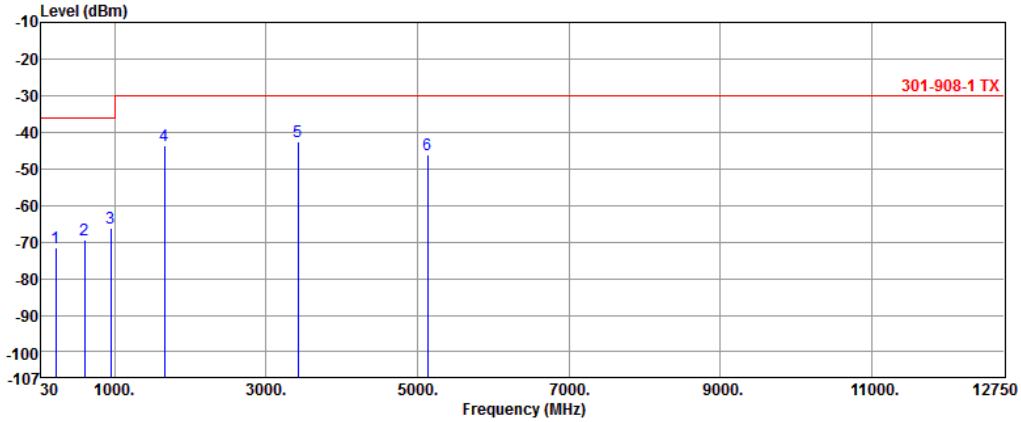
3.1.44 Radiated Emissions - traffic mode (LTE Band 3)

Test Channel (MHz)	1710.6	**Sub Carrier Spacing**	15kHz
Polarization	Horizontal	**Frequency Range**	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	216.54	-73.52	-36.00	-37.52	-4.06	-69.46
2	606.12	-70.20	-36.00	-34.20	6.77	-76.97
3	923.89	-66.33	-36.00	-30.33	11.47	-77.80
4	1651.64	-49.14	-30.00	-19.14	-1.09	-48.05
5	3421.35	-51.16	-30.00	-21.16	6.09	-57.25
6	5131.84	-55.93	-30.00	-25.93	11.99	-67.92

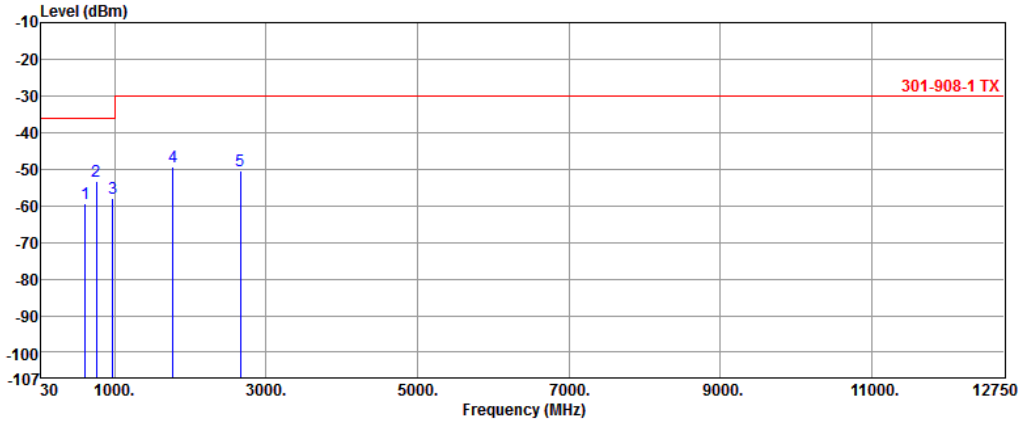
Test Channel (MHz)	1710.6	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	216.21	-71.68	-36.00	-35.68	-4.03	-67.65
2	604.54	-69.36	-36.00	-33.36	7.03	-76.39
3	944.15	-66.12	-36.00	-30.12	11.60	-77.72
4	1651.98	-43.54	-30.00	-13.54	-1.08	-42.46
5	3421.21	-42.66	-30.00	-12.66	5.73	-48.39
6	5131.35	-46.23	-30.00	-16.23	11.83	-58.06

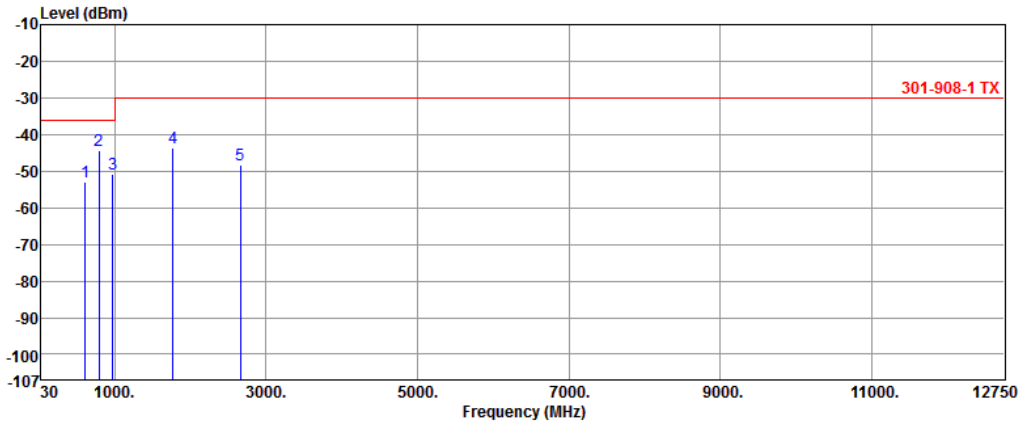
3.1.45 Radiated Emissions - traffic mode (LTE Band 8)

Test Channel (MHz)	885.99	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	607.15	-59.28	-36.00	-23.28	6.81	-66.09
2	758.47	-53.19	-36.00	-17.19	9.05	-62.24
3	971.87	-58.03	-36.00	-22.03	11.81	-69.84
4	1771.55	-49.42	-30.00	-19.42	-0.40	-49.02
5	2657.54	-50.32	-30.00	-20.32	3.89	-54.21

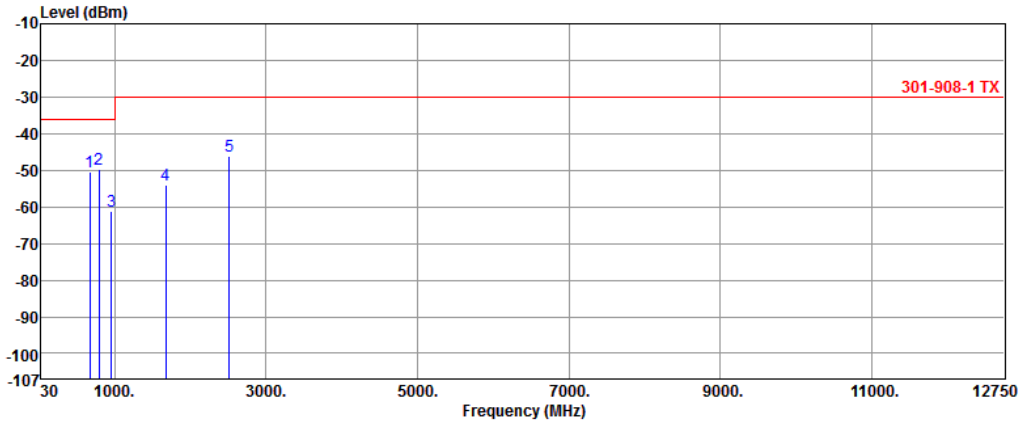
Test Channel (MHz)	885.99	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	607.15	-53.06	-36.00	-17.06	7.13	-60.19
2	789.51	-44.44	-36.00	-8.44	9.12	-53.56
3	971.87	-50.78	-36.00	-14.78	11.76	-62.54
4	1771.85	-43.72	-30.00	-13.72	-0.43	-43.29
5	2657.87	-48.22	-30.00	-18.22	3.83	-52.05

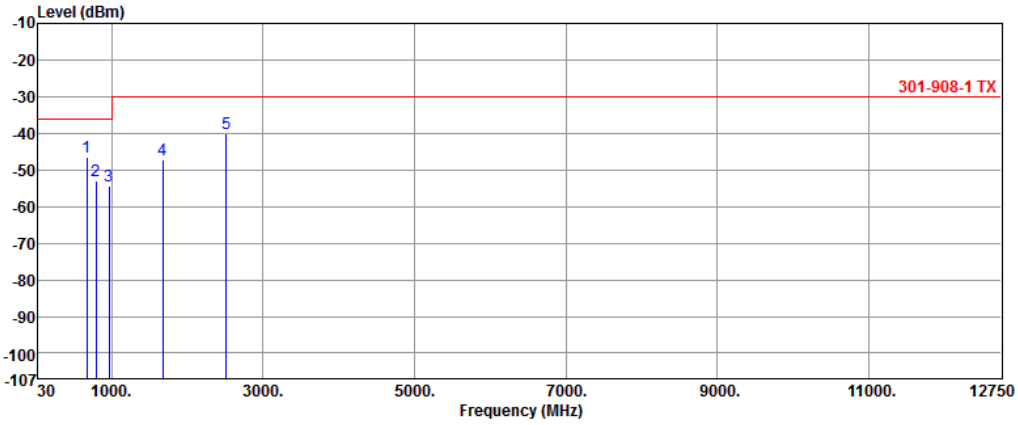
3.1.46 Radiated Emissions - traffic mode (LTE Band 20)

Test Channel (MHz)	837.99	Sub Carrier Spacing	3.75kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	668.87	-50.32	-36.00	-14.32	7.29	-57.61
2	789.12	-49.87	-36.00	-13.87	9.38	-59.25
3	959.54	-61.12	-36.00	-25.12	11.76	-72.88
4	1675.73	-54.10	-30.00	-24.10	-1.02	-53.08
5	2513.66	-46.00	-30.00	-16.00	3.44	-49.44

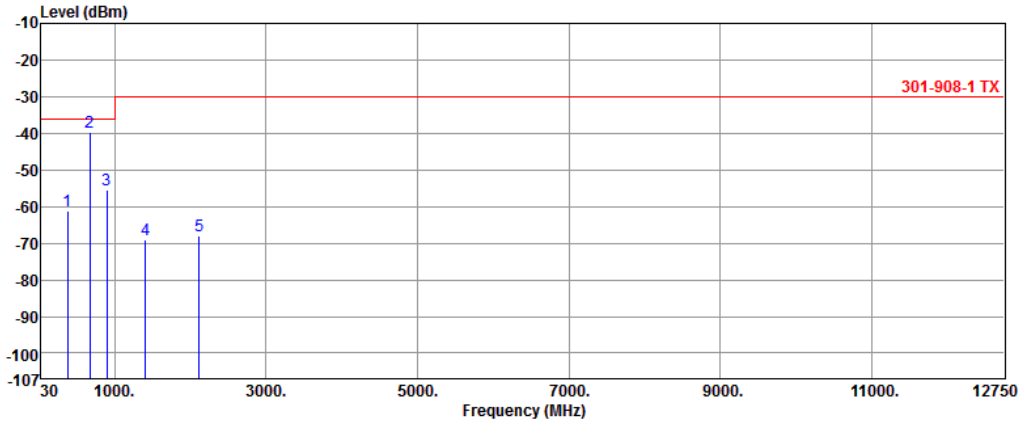
Test Channel (MHz)	837.99	Sub Carrier Spacing	3.75kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	668.54	-46.57	-36.00	-10.57	6.81	-53.38
2	789.12	-53.12	-36.00	-17.12	9.13	-62.25
3	959.87	-54.24	-36.00	-18.24	11.53	-65.77
4	1675.62	-47.35	-30.00	-17.35	-1.08	-46.27
5	2513.77	-39.89	-30.00	-9.89	3.34	-43.23

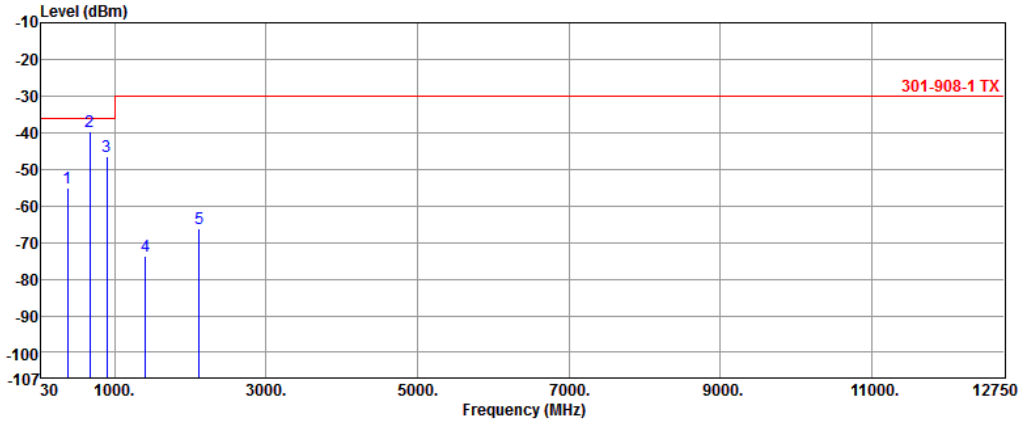
3.1.47 Radiated Emissions - traffic mode (LTE Band 28)

Test Channel (MHz)	703.6	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	373.21	-61.36	-36.00	-25.36	0.63	-61.99
2	673.54	-39.56	-36.00	-3.56	7.35	-46.91
3	897.24	-55.54	-36.00	-19.54	10.97	-66.51
4	1406.84	-69.14	-30.00	-39.14	-0.71	-68.43
5	2110.94	-68.10	-30.00	-38.10	2.63	-70.73

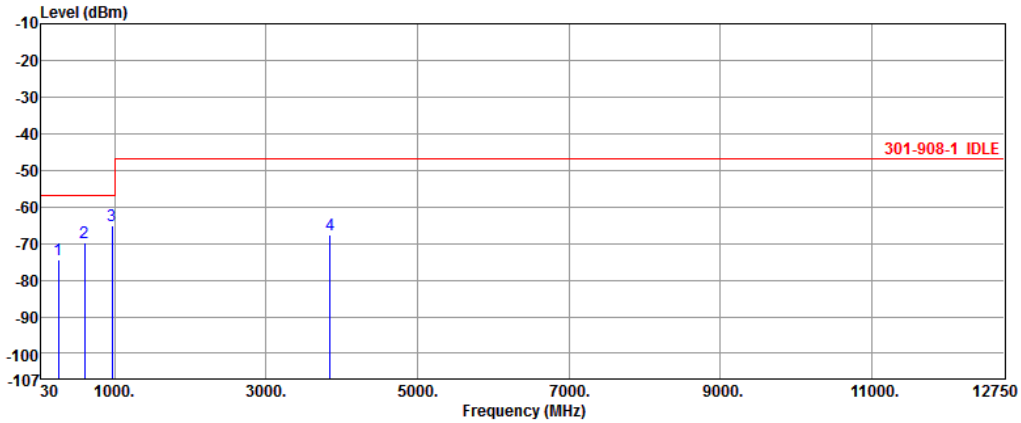
Test Channel (MHz)	703.6	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	373.12	-55.13	-36.00	-19.13	1.15	-56.28
2	673.54	-39.87	-36.00	-3.87	6.85	-46.72
3	897.11	-46.56	-36.00	-10.56	10.92	-57.48
4	1407.35	-73.83	-30.00	-43.83	-0.73	-73.10
5	2110.89	-66.14	-30.00	-36.14	2.69	-68.83

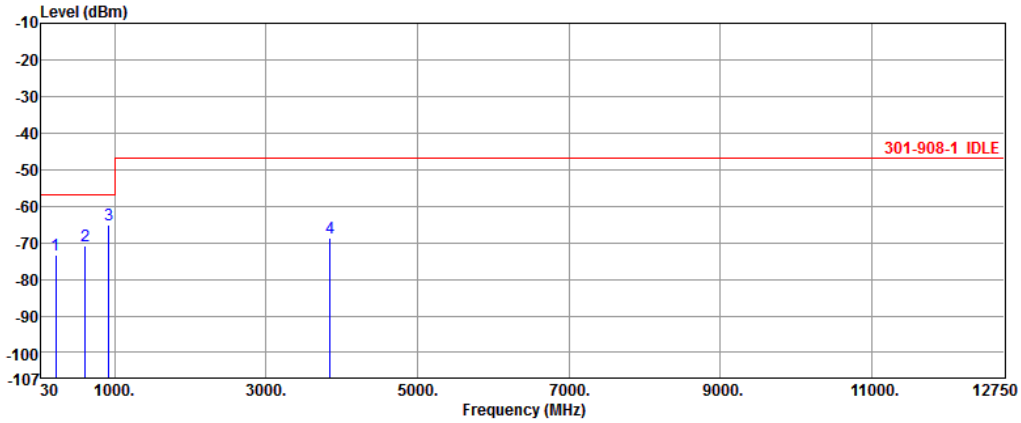
3.1.48 Radiated Emissions - Idle mode (LTE Band 1)

Test Channel (MHz)	1920.7	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	256.87	-74.35	-57.00	-17.35	-1.46	-72.89
2	603.87	-69.78	-57.00	-12.78	6.69	-76.47
3	966.65	-65.14	-57.00	-8.14	11.89	-77.03
4	3841.52	-67.75	-47.00	-20.75	8.24	-75.99

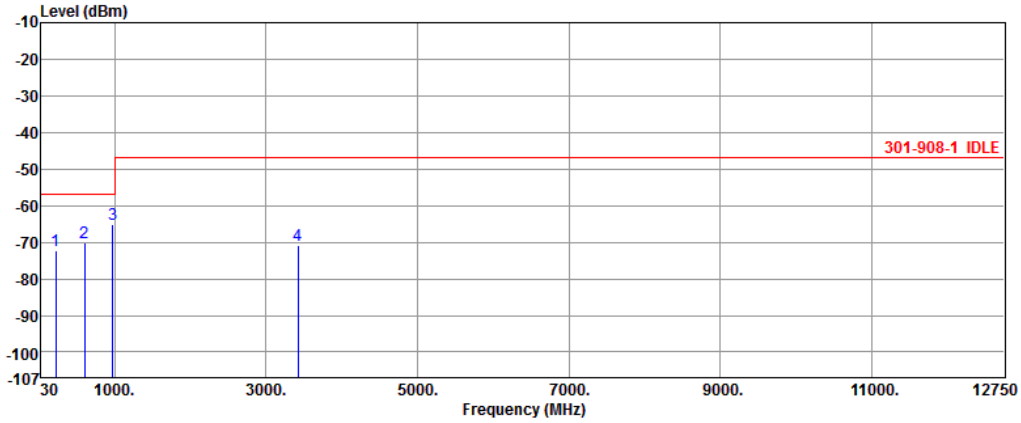
Test Channel (MHz)	1920.7	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	216.87	-73.35	-57.00	-16.35	-4.06	-69.29
2	610.59	-70.99	-57.00	-13.99	7.23	-78.22
3	921.87	-65.02	-57.00	-8.02	11.22	-76.24
4	3841.54	-68.55	-47.00	-21.55	8.10	-76.65

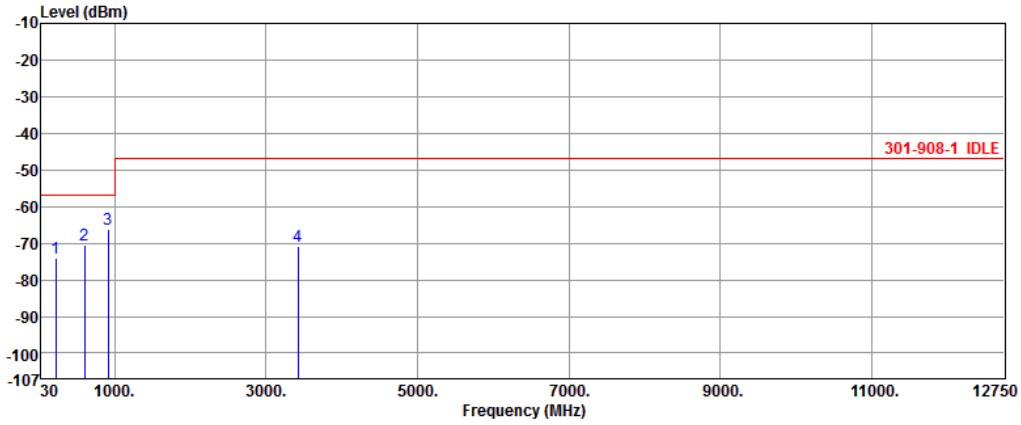
3.1.49 Radiated Emissions - Idle mode (LTE Band 3)

Test Channel (MHz)	1710.6	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	218.55	-72.33	-57.00	-15.33	-3.80	-68.53
2	597.87	-70.12	-57.00	-13.12	6.56	-76.68
3	972.58	-65.15	-57.00	-8.15	11.78	-76.93
4	3421.32	-70.87	-47.00	-23.87	6.09	-76.96

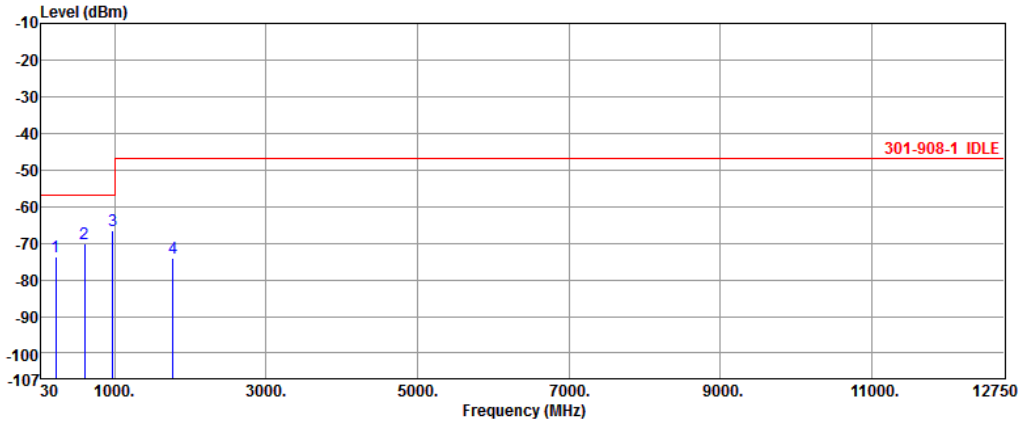
Test Channel (MHz)	1710.6	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	216.57	-74.12	-57.00	-17.12	-4.05	-70.07
2	602.55	-70.35	-57.00	-13.35	6.87	-77.22
3	915.54	-66.13	-57.00	-9.13	11.27	-77.40
4	3421.32	-70.73	-47.00	-23.73	5.73	-76.46

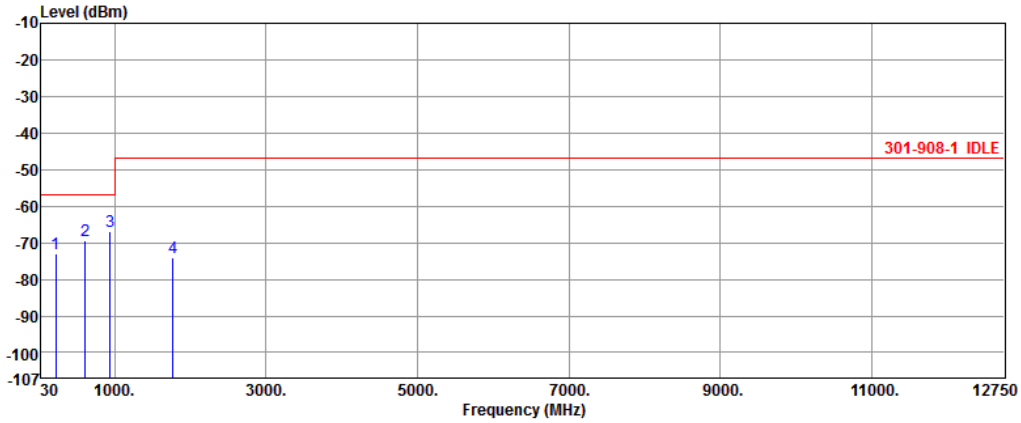
3.1.50 Radiated Emissions - Idle mode (LTE Band 8)

Test Channel (MHz)	885.99	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	221.12	-73.66	-57.00	-16.66	-3.85	-69.81
2	602.87	-70.11	-57.00	-13.11	6.65	-76.76
3	976.12	-66.56	-57.00	-9.56	11.73	-78.29
4	1772.21	-74.13	-47.00	-27.13	-0.39	-73.74

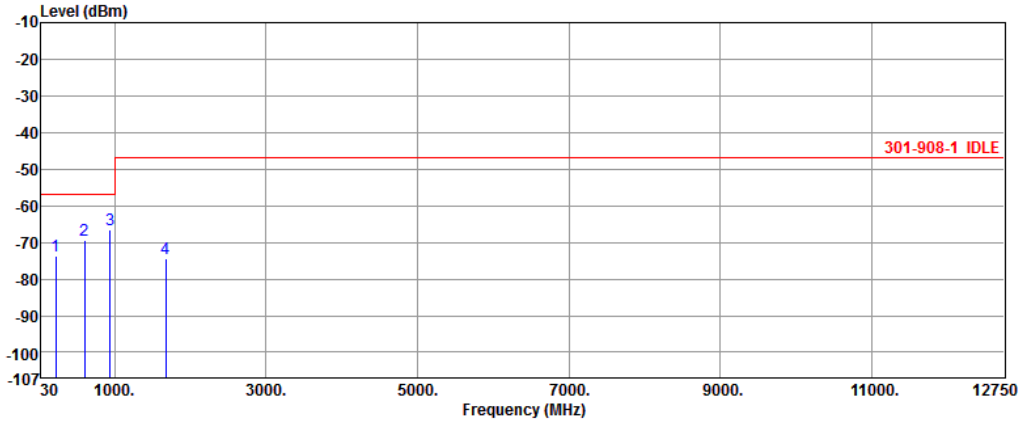
Test Channel (MHz)	885.99	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	217.35	-72.87	-57.00	-15.87	-4.08	-68.79
2	613.21	-69.54	-57.00	-12.54	7.23	-76.77
3	935.21	-66.75	-57.00	-9.75	11.44	-78.19
4	1771.10	-74.24	-47.00	-27.24	-0.44	-73.80

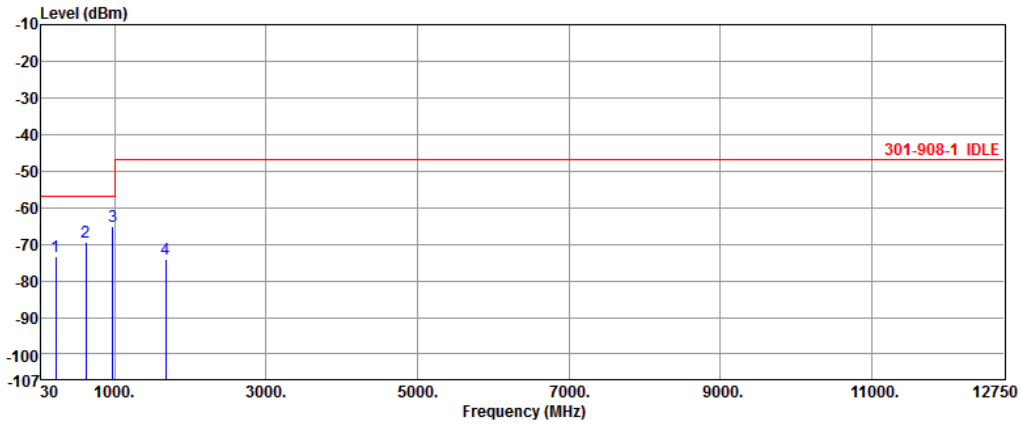
3.1.51 Radiated Emissions - Idle mode (LTE Band 20)

Test Channel (MHz)	837.99	Sub Carrier Spacing	3.75kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	219.21	-73.87	-57.00	-16.87	-3.72	-70.15
2	602.10	-69.46	-57.00	-12.46	6.63	-76.09
3	941.32	-66.65	-57.00	-9.65	12.04	-78.69
4	1676.32	-74.41	-47.00	-27.41	-1.02	-73.39

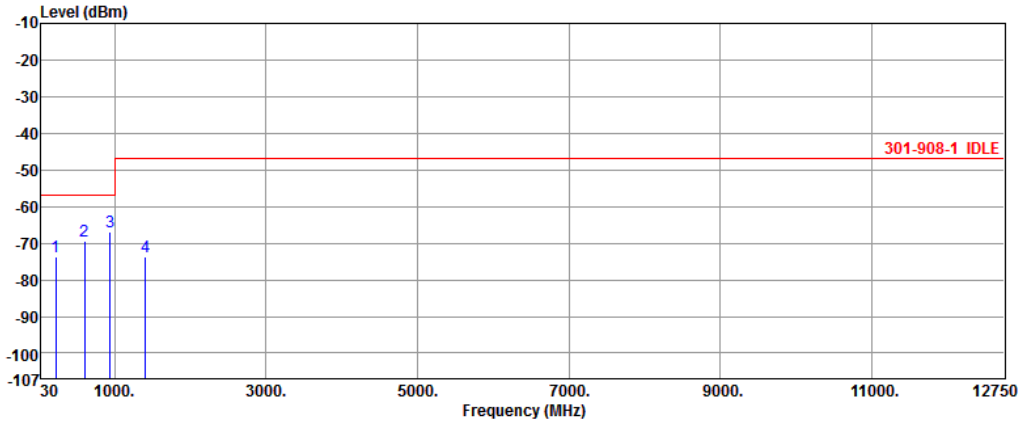
Test Channel (MHz)	837.99	Sub Carrier Spacing	3.75kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	217.52	-73.44	-57.00	-16.44	-4.09	-69.35
2	615.32	-69.35	-57.00	-12.35	7.21	-76.56
3	975.15	-65.11	-57.00	-8.11	11.69	-76.80
4	1676.21	-74.17	-47.00	-27.17	-1.08	-73.09

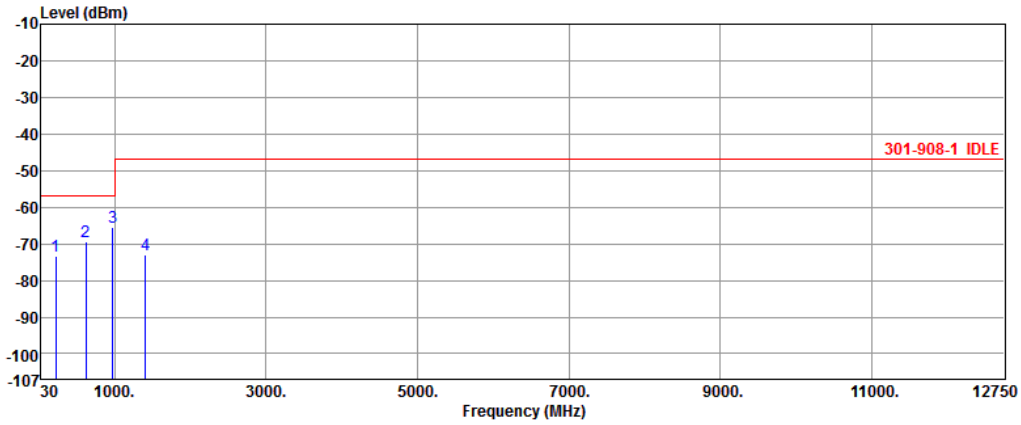
3.1.52 Radiated Emissions - Idle mode (LTE Band 28)

Test Channel (MHz)	703.6	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	219.00	-73.59	-57.00	-16.59	-3.74	-69.85
2	602.33	-69.48	-57.00	-12.48	6.63	-76.11
3	941.36	-66.74	-57.00	-9.74	12.04	-78.78
4	1407.33	-73.59	-47.00	-26.59	-0.71	-72.88

Test Channel (MHz)	703.6	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz

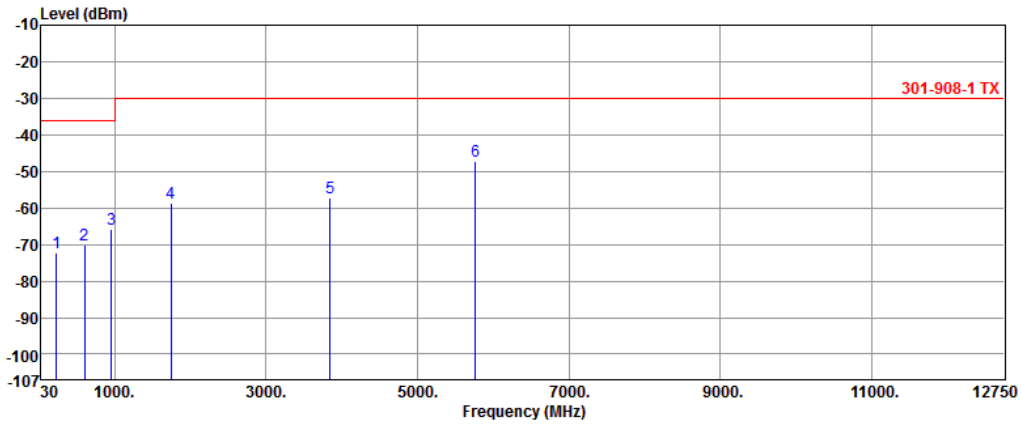


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	217.87	-73.32	-57.00	-16.32	-4.10	-69.22
2	615.55	-69.35	-57.00	-12.35	7.20	-76.55
3	975.12	-65.46	-57.00	-8.46	11.69	-77.15
4	1407.31	-73.16	-47.00	-26.16	-0.73	-72.43

NB-IoT_ Configuration 1: DBA6927C1 antenna _Stand alone

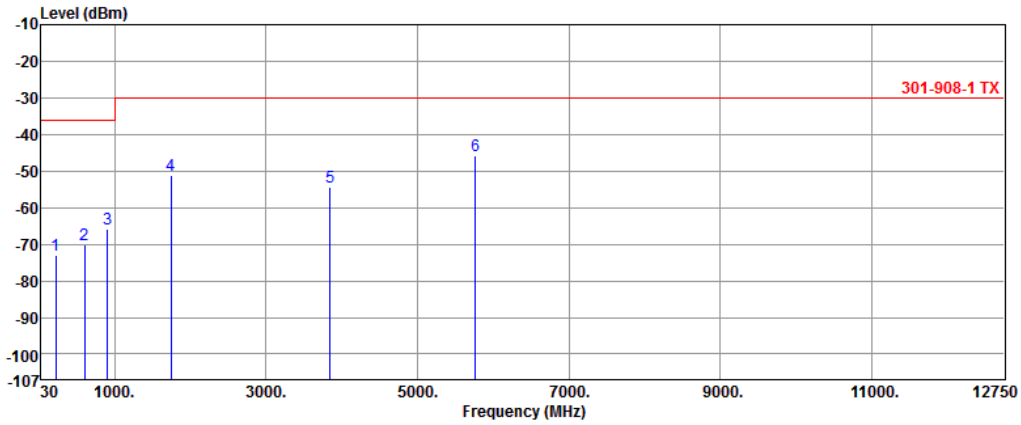
3.1.53 Radiated Emissions - traffic mode (LTE Band 1)

Test Channel (MHz)	1920.1	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	231.99	-72.42	-36.00	-36.42	-2.92	-69.50
2	599.87	-70.14	-36.00	-34.14	6.55	-76.69
3	956.99	-65.94	-36.00	-29.94	11.83	-77.77
4	1744.00	-58.58	-30.00	-28.58	-0.61	-57.97
5	3839.94	-57.41	-30.00	-27.41	8.24	-65.65
6	5760.06	-47.33	-30.00	-17.33	12.59	-59.92

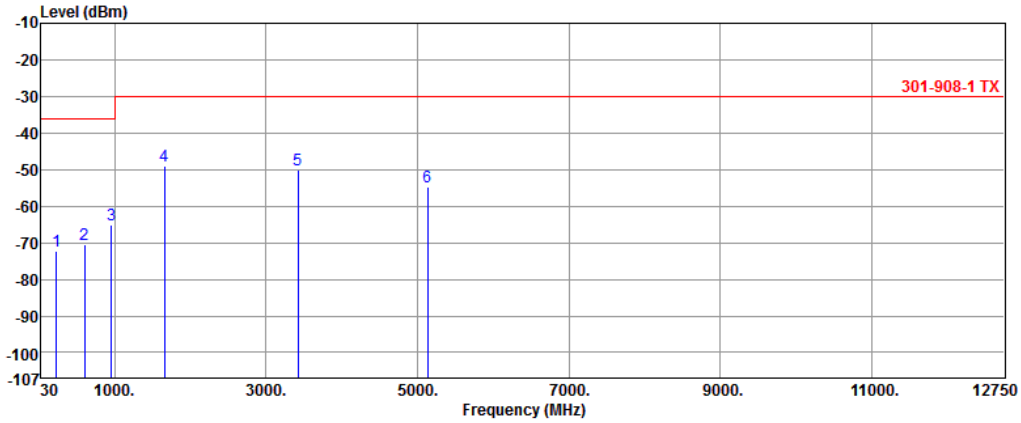
Test Channel (MHz)	1920.1	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	218.87	-73.14	-36.00	-37.14	-4.13	-69.01
2	604.35	-69.99	-36.00	-33.99	7.01	-77.00
3	905.02	-66.00	-36.00	-30.00	11.07	-77.07
4	1744.33	-51.28	-30.00	-21.28	-0.68	-50.60
5	3839.96	-54.47	-30.00	-24.47	8.10	-62.57
6	5760.14	-45.83	-30.00	-15.83	12.61	-58.44

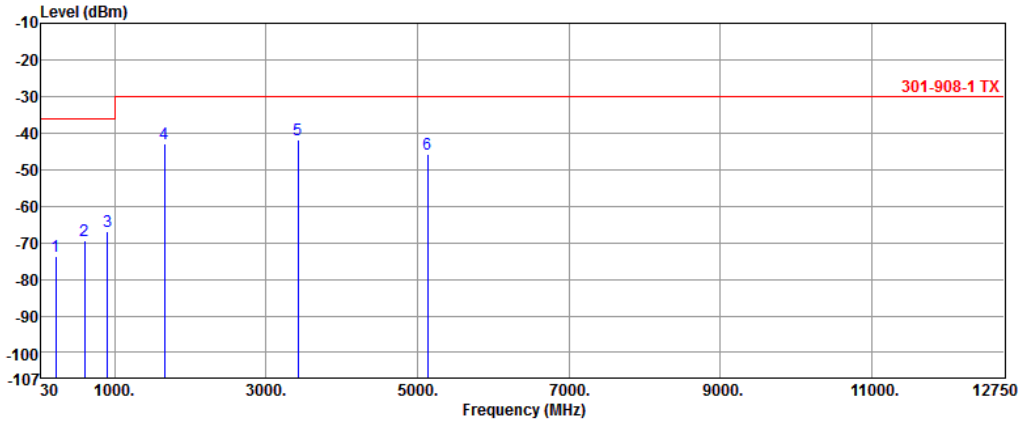
3.1.54 Radiated Emissions - traffic mode (LTE Band 3)

Test Channel (MHz)	1710.1	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	231.24	-72.15	-36.00	-36.15	-3.09	-69.06
2	599.86	-70.41	-36.00	-34.41	6.55	-76.96
3	956.99	-65.15	-36.00	-29.15	11.83	-76.98
4	1652.00	-49.00	-30.00	-19.00	-1.09	-47.91
5	3420.12	-50.25	-30.00	-20.25	6.08	-56.33
6	5129.99	-54.80	-30.00	-24.80	12.00	-66.80

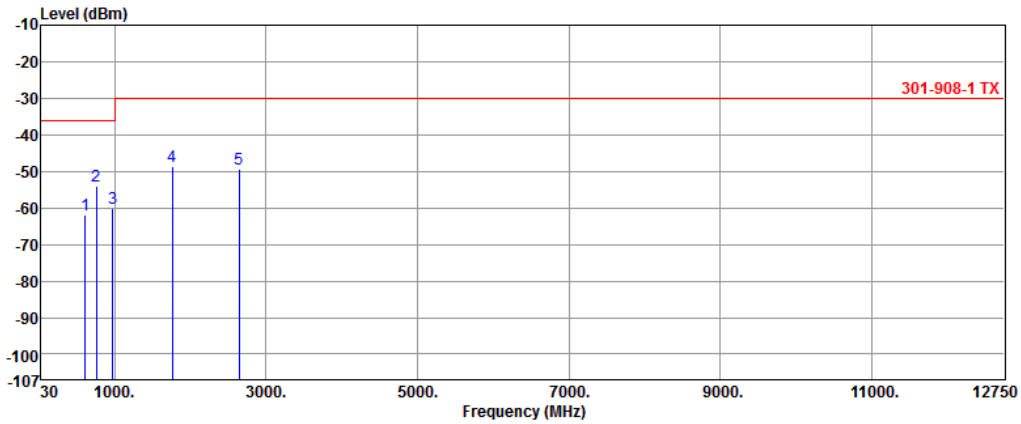
Test Channel (MHz)	1710.1	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	218.57	-73.55	-36.00	-37.55	-4.12	-69.43
2	604.87	-69.37	-36.00	-33.37	7.05	-76.42
3	905.41	-66.75	-36.00	-30.75	11.08	-77.83
4	1652.00	-43.10	-30.00	-13.10	-1.08	-42.02
5	3420.08	-42.01	-30.00	-12.01	5.72	-47.73
6	5130.08	-45.68	-30.00	-15.68	11.84	-57.52

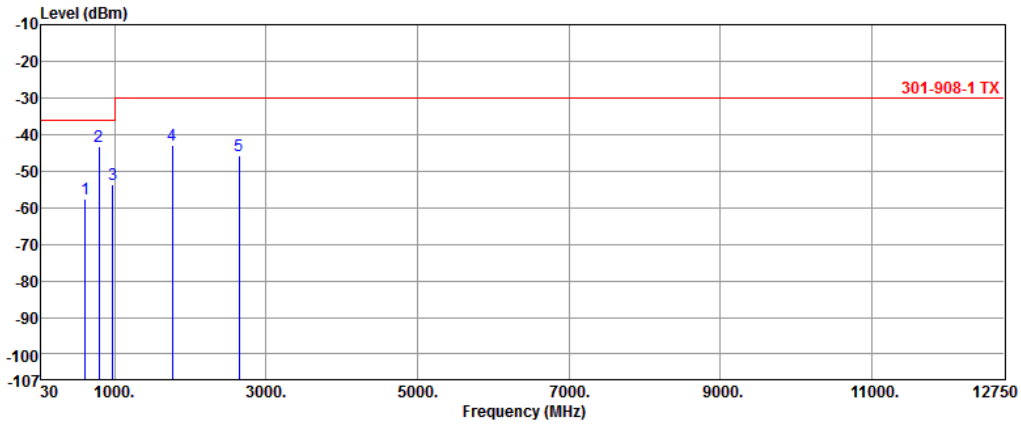
3.1.55 Radiated Emissions - traffic mode (LTE Band 8)

Test Channel (MHz)	880.1	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	607.15	-62.07	-36.00	-26.07	6.81	-68.88
2	758.47	-54.08	-36.00	-18.08	9.05	-63.13
3	971.87	-60.02	-36.00	-24.02	11.81	-71.83
4	1759.71	-48.58	-30.00	-18.58	-0.48	-48.10
5	2640.32	-49.28	-30.00	-19.28	3.92	-53.20

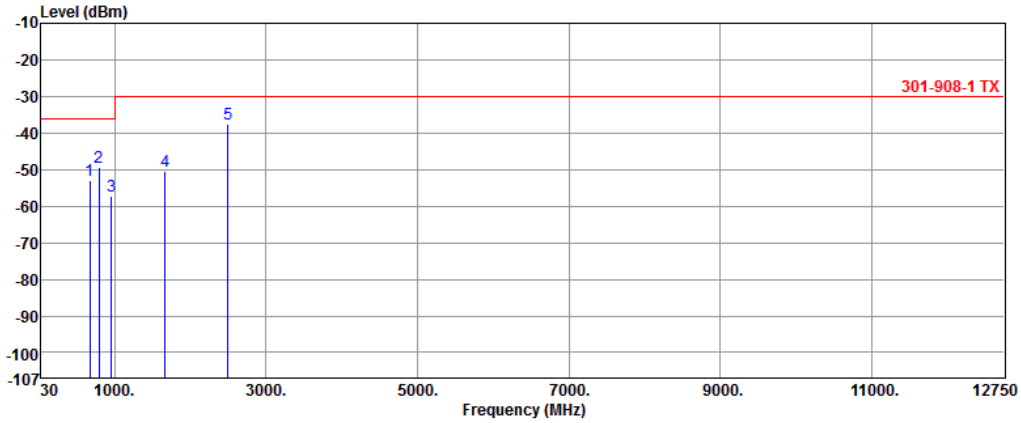
Test Channel (MHz)	880.1	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	607.15	-57.68	-36.00	-21.68	7.13	-64.81
2	789.51	-43.12	-36.00	-7.12	9.12	-52.24
3	971.87	-53.75	-36.00	-17.75	11.76	-65.51
4	1760.20	-43.02	-30.00	-13.02	-0.53	-42.49
5	2640.20	-45.63	-30.00	-15.63	3.82	-49.45

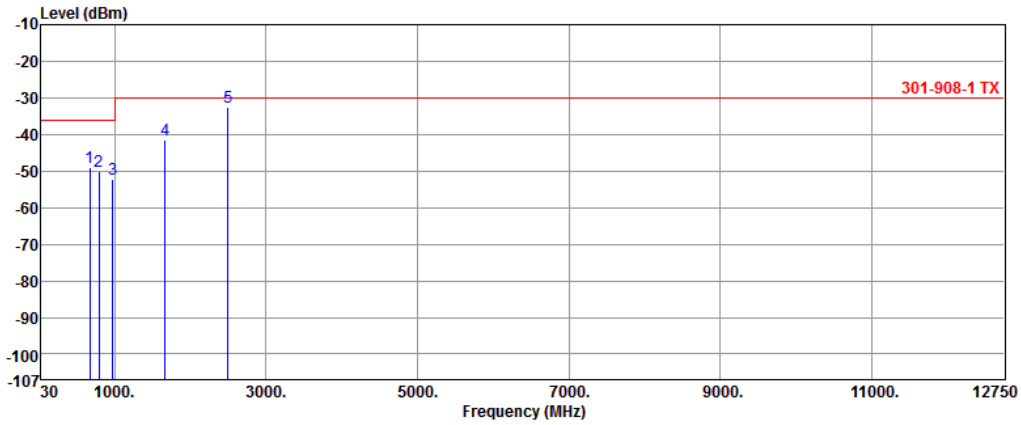
3.1.56 Radiated Emissions - traffic mode (LTE Band 20)

Test Channel (MHz)	832.1	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	668.21	-52.87	-36.00	-16.87	7.28	-60.15
2	789.20	-49.54	-36.00	-13.54	9.38	-58.92
3	953.12	-57.10	-36.00	-21.10	11.94	-69.04
4	1663.83	-50.30	-30.00	-20.30	-1.06	-49.24
5	2496.34	-37.58	-30.00	-7.58	3.35	-40.93

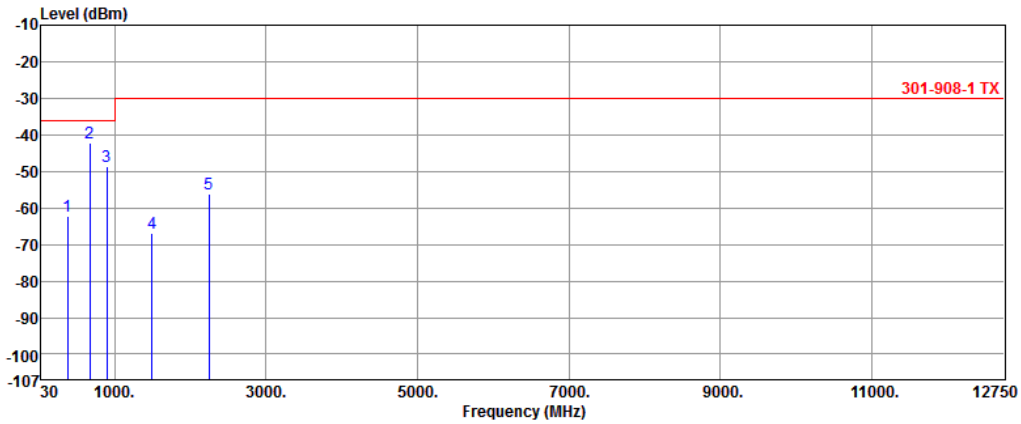
Test Channel (MHz)	832.1	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	668.56	-49.13	-36.00	-13.13	6.81	-55.94
2	789.12	-50.14	-36.00	-14.14	9.13	-59.27
3	971.21	-52.36	-36.00	-16.36	11.78	-64.14
4	1663.88	-41.65	-30.00	-11.65	-1.08	-40.57
5	2496.29	-32.53	-30.00	-2.53	3.26	-35.79

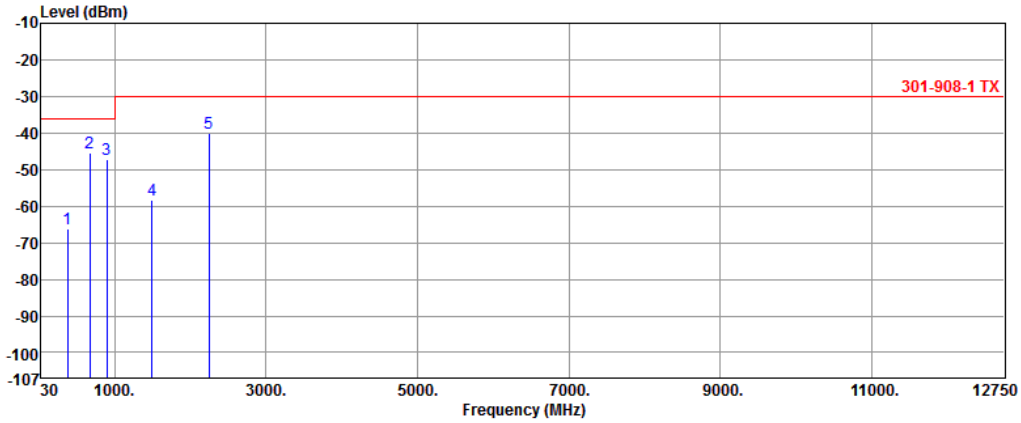
3.1.57 Radiated Emissions - traffic mode (LTE Band 28)

Test Channel (MHz)	747.9	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	374.21	-62.15	-36.00	-26.15	0.62	-62.77
2	673.40	-42.12	-36.00	-6.12	7.34	-49.46
3	897.21	-48.64	-36.00	-12.64	10.96	-59.60
4	1495.66	-66.79	-30.00	-36.79	-0.51	-66.28
5	2243.61	-56.10	-30.00	-26.10	3.77	-59.87

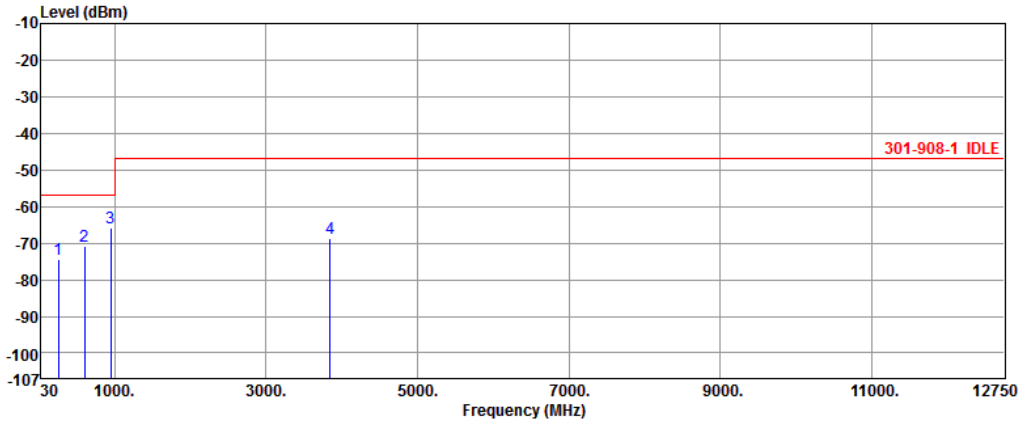
Test Channel (MHz)	747.9	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	373.12	-66.14	-36.00	-30.14	1.15	-67.29
2	673.54	-45.53	-36.00	-9.53	6.85	-52.38
3	897.12	-47.12	-36.00	-11.12	10.92	-58.04
4	1495.73	-58.28	-30.00	-28.28	-0.53	-57.75
5	2243.66	-40.21	-30.00	-10.21	3.77	-43.98

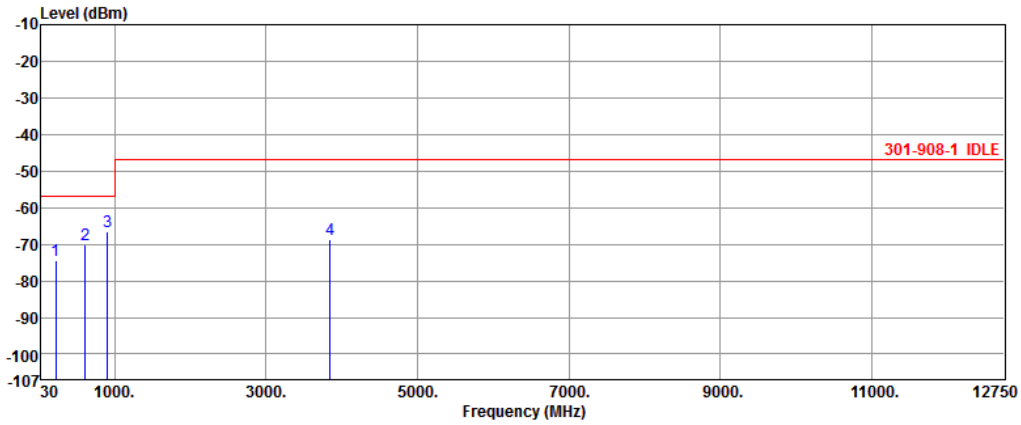
3.1.58 Radiated Emissions - Idle mode (LTE Band 1)

Test Channel (MHz)	1920.1	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	254.87	-74.55	-57.00	-17.55	-1.42	-73.13
2	596.97	-70.87	-57.00	-13.87	6.56	-77.43
3	943.54	-65.66	-57.00	-8.66	12.04	-77.70
4	3840.12	-68.85	-47.00	-21.85	8.24	-77.09

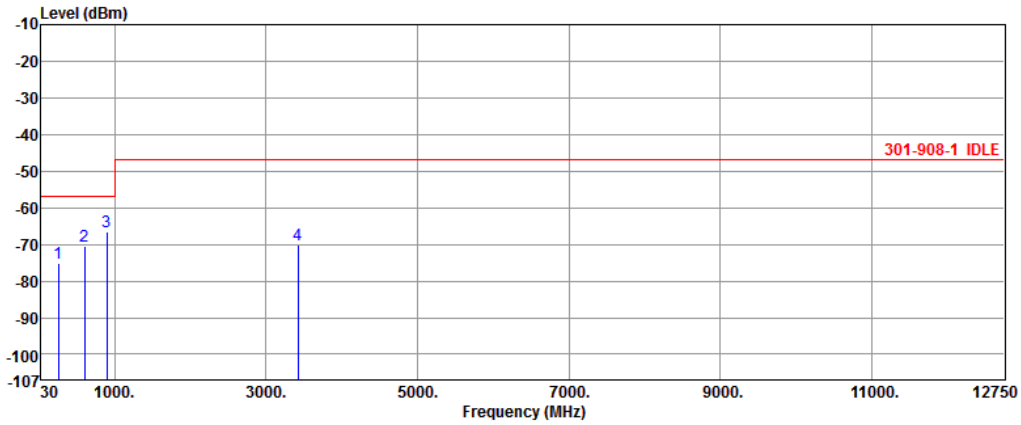
Test Channel (MHz)	1920.1	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	220.87	-74.52	-57.00	-17.52	-4.24	-70.28
2	606.85	-70.10	-57.00	-13.10	7.12	-77.22
3	900.70	-66.48	-57.00	-9.48	11.09	-77.57
4	3840.21	-68.58	-47.00	-21.58	8.10	-76.68

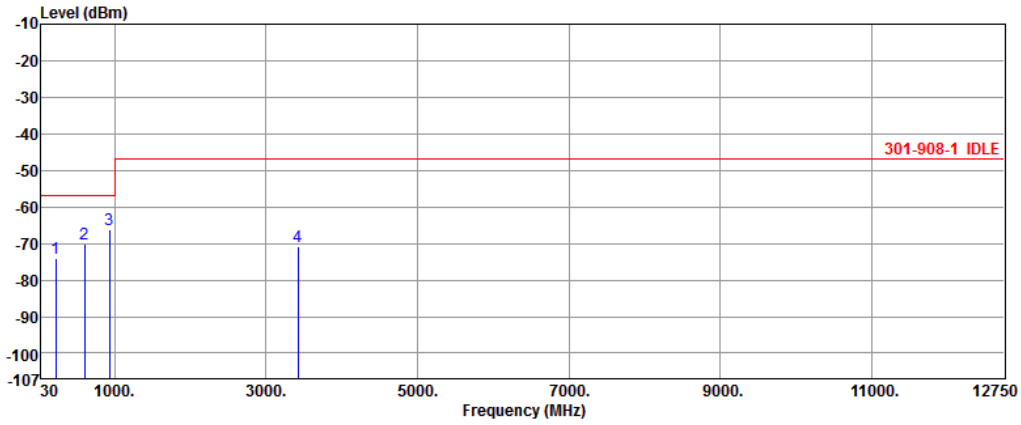
3.1.59 Radiated Emissions - Idle mode (LTE Band 3)

Test Channel (MHz)	1710.1	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	256.32	-74.99	-57.00	-17.99	-1.45	-73.54
2	601.87	-70.33	-57.00	-13.33	6.62	-76.95
3	896.69	-66.41	-57.00	-9.41	10.93	-77.34
4	3420.96	-70.25	-47.00	-23.25	6.09	-76.34

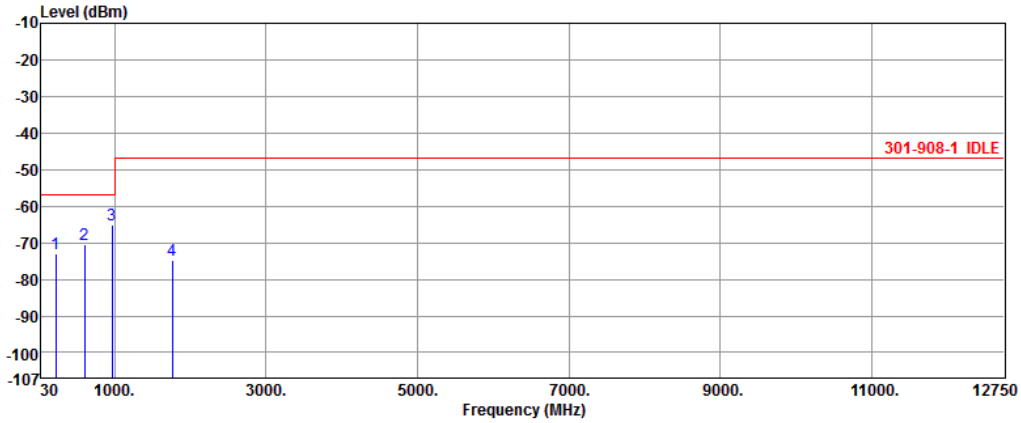
Test Channel (MHz)	1710.1	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	219.56	-73.98	-57.00	-16.98	-4.16	-69.82
2	599.54	-70.24	-57.00	-13.24	6.66	-76.90
3	928.41	-66.15	-57.00	-9.15	11.60	-77.75
4	3420.36	-70.74	-47.00	-23.74	5.72	-76.46

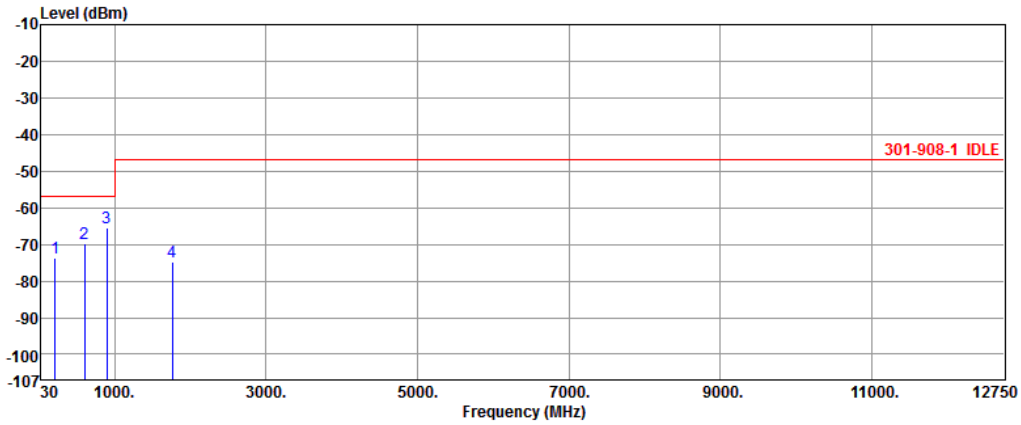
3.1.60 Radiated Emissions - Idle mode (LTE Band 8)

Test Channel (MHz)	880.1	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	220.21	-73.10	-57.00	-16.10	-3.66	-69.44
2	596.87	-70.42	-57.00	-13.42	6.56	-76.98
3	964.54	-65.12	-57.00	-8.12	11.89	-77.01
4	1760.00	-74.71	-47.00	-27.71	-0.48	-74.23

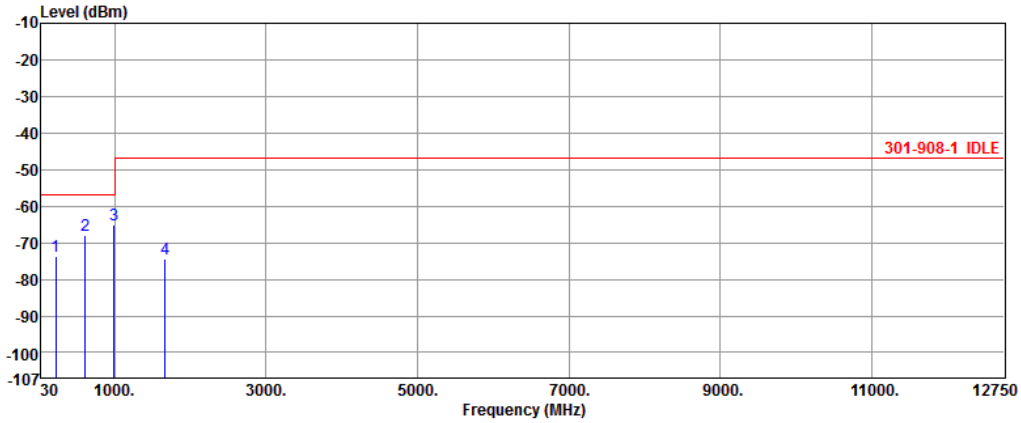
Test Channel (MHz)	880.1	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	216.12	-73.54	-57.00	-16.54	-4.03	-69.51
2	605.21	-69.74	-57.00	-12.74	7.07	-76.81
3	897.32	-65.37	-57.00	-8.37	10.93	-76.30
4	1760.21	-74.88	-47.00	-27.88	-0.53	-74.35

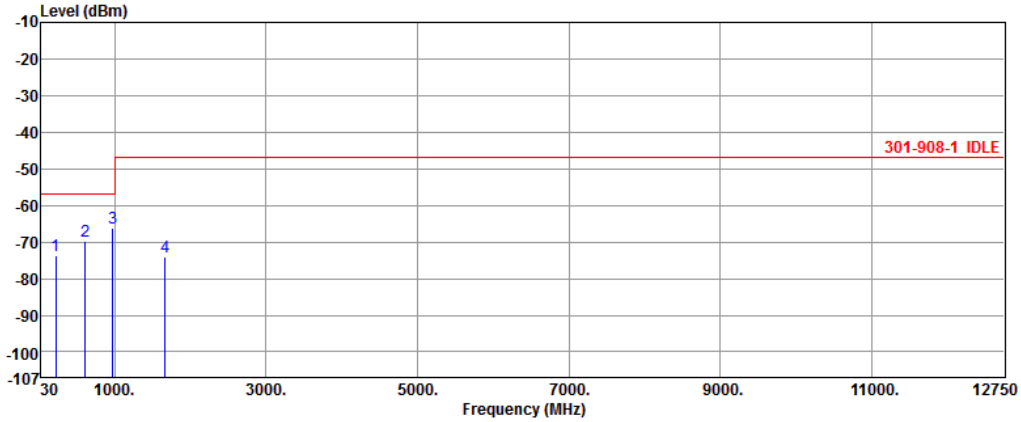
3.1.61 Radiated Emissions - Idle mode (LTE Band 20)

Test Channel (MHz)	832.1	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	220.12	-73.54	-57.00	-16.54	-3.64	-69.90
2	611.54	-68.12	-57.00	-11.12	6.95	-75.07
3	986.52	-65.12	-57.00	-8.12	11.98	-77.10
4	1664.54	-74.36	-47.00	-27.36	-1.06	-73.30

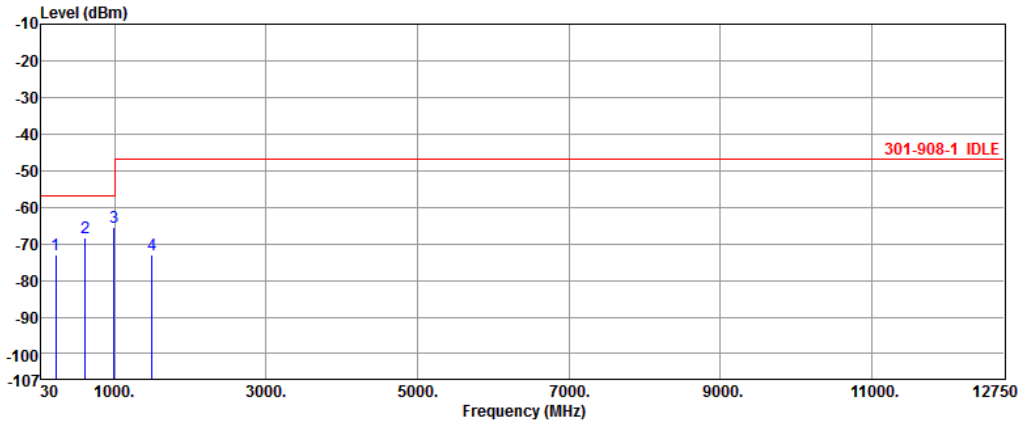
Test Channel (MHz)	832.1	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	218.52	-73.59	-57.00	-16.59	-4.12	-69.47
2	607.82	-69.74	-57.00	-12.74	7.16	-76.90
3	971.36	-66.12	-57.00	-9.12	11.77	-77.89
4	1664.21	-74.14	-47.00	-27.14	-1.08	-73.06

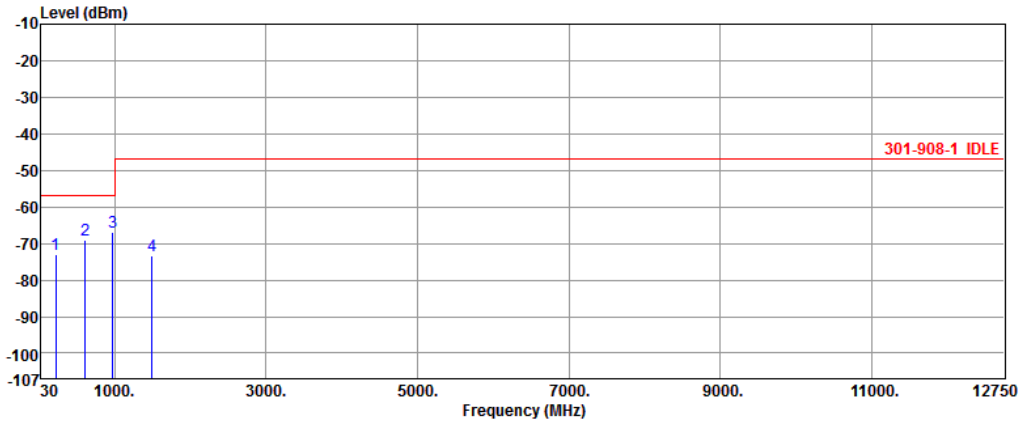
3.1.62 Radiated Emissions - Idle mode (LTE Band 28)

Test Channel (MHz)	747.9	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	220.35	-73.11	-57.00	-16.11	-3.69	-69.42
2	611.99	-68.28	-57.00	-11.28	6.96	-75.24
3	986.87	-65.37	-57.00	-8.37	11.98	-77.35
4	1495.54	-73.13	-47.00	-26.13	-0.51	-72.62

Test Channel (MHz)	747.9	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz

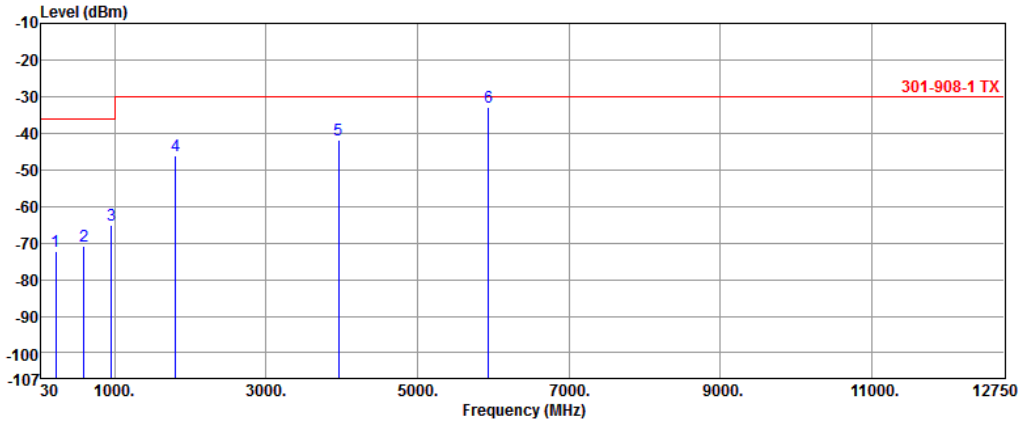


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	218.35	-73.10	-57.00	-16.10	-4.11	-68.99
2	607.52	-69.21	-57.00	-12.21	7.15	-76.36
3	971.24	-66.75	-57.00	-9.75	11.78	-78.53
4	1495.32	-73.18	-47.00	-26.18	-0.53	-72.65

NB-IoT_ Configuration 2: EFF6925A3S antenna _ Guard band

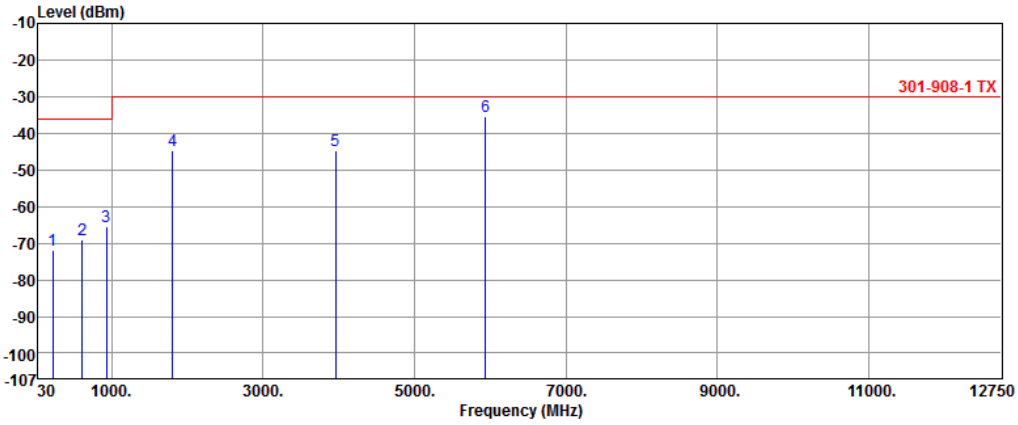
3.1.63 Radiated Emissions - traffic mode (LTE Band 1)

Test Channel (MHz)	1979.9	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	218.01	-72.35	-36.00	-36.35	-3.87	-68.48
2	594.55	-70.88	-36.00	-34.88	6.55	-77.43
3	956.54	-65.15	-36.00	-29.15	11.85	-77.00
4	1804.53	-46.00	-30.00	-16.00	-0.13	-45.87
5	3959.79	-41.79	-30.00	-11.79	8.42	-50.21
6	5939.75	-33.01	-30.00	-3.01	13.03	-46.04

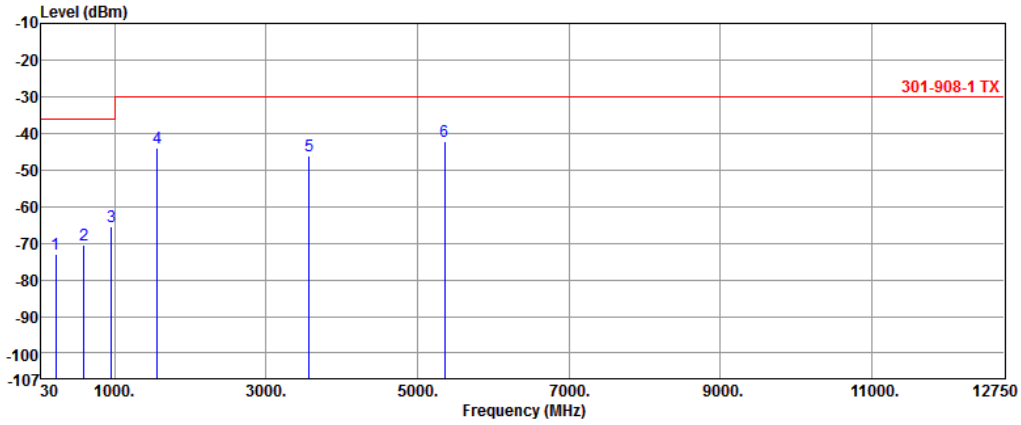
Test Channel (MHz)	1979.9	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	217.41	-71.95	-36.00	-35.95	-4.08	-67.87
2	609.87	-69.00	-36.00	-33.00	7.23	-76.23
3	930.98	-65.42	-36.00	-29.42	11.65	-77.07
4	1804.47	-44.55	-30.00	-14.55	-0.13	-44.42
5	3959.90	-44.88	-30.00	-14.88	8.11	-52.99
6	5939.62	-35.33	-30.00	-5.33	12.66	-47.99

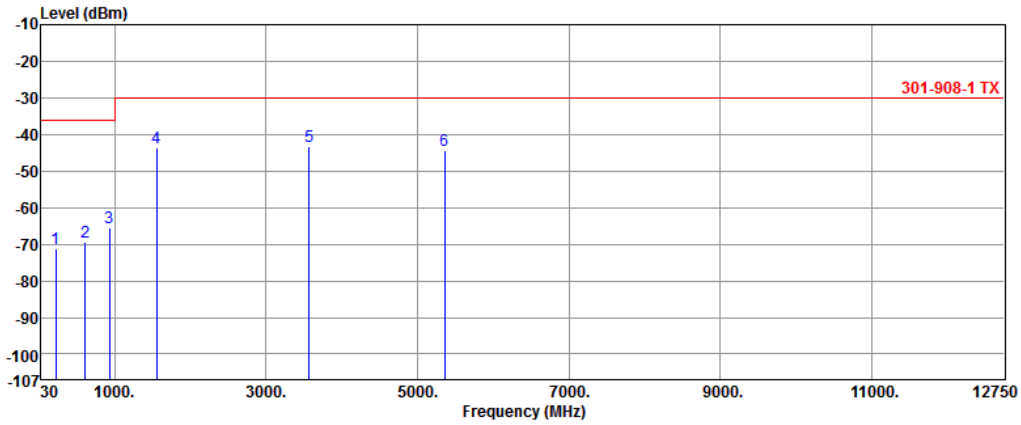
3.1.64 Radiated Emissions - traffic mode (LTE Band 3)

Test Channel (MHz)	1784.9	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	218.87	-72.85	-36.00	-36.85	-3.76	-69.09
2	594.99	-70.48	-36.00	-34.48	6.57	-77.05
3	956.87	-65.42	-36.00	-29.42	11.84	-77.26
4	1563.53	-43.97	-30.00	-13.97	-0.96	-43.01
5	3569.82	-46.21	-30.00	-16.21	7.10	-53.31
6	5354.60	-42.16	-30.00	-12.16	11.72	-53.88

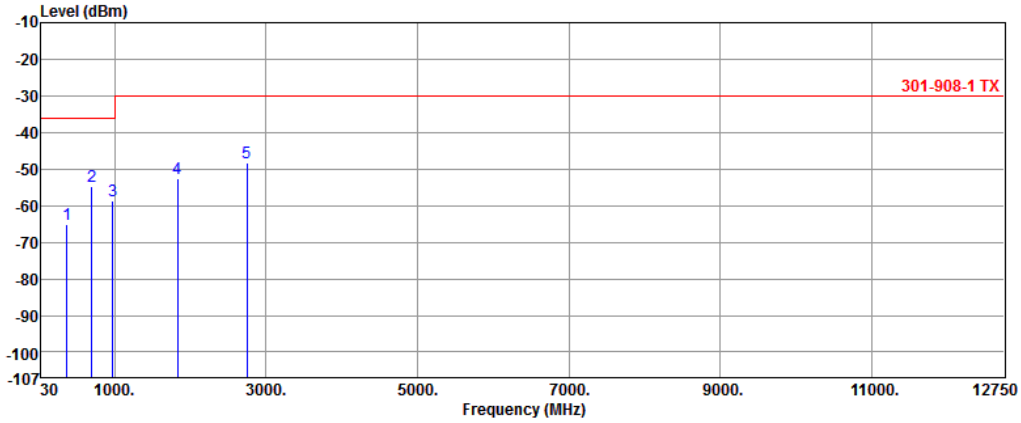
Test Channel (MHz)	1784.9	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	217.87	-71.20	-36.00	-35.20	-4.10	-67.10
2	609.85	-69.35	-36.00	-33.35	7.22	-76.57
3	930.59	-65.55	-36.00	-29.55	11.68	-77.23
4	1552.54	-43.59	-30.00	-13.59	-0.81	-42.78
5	3569.67	-43.39	-30.00	-13.39	6.83	-50.22
6	5354.63	-44.27	-30.00	-14.27	11.50	-55.77

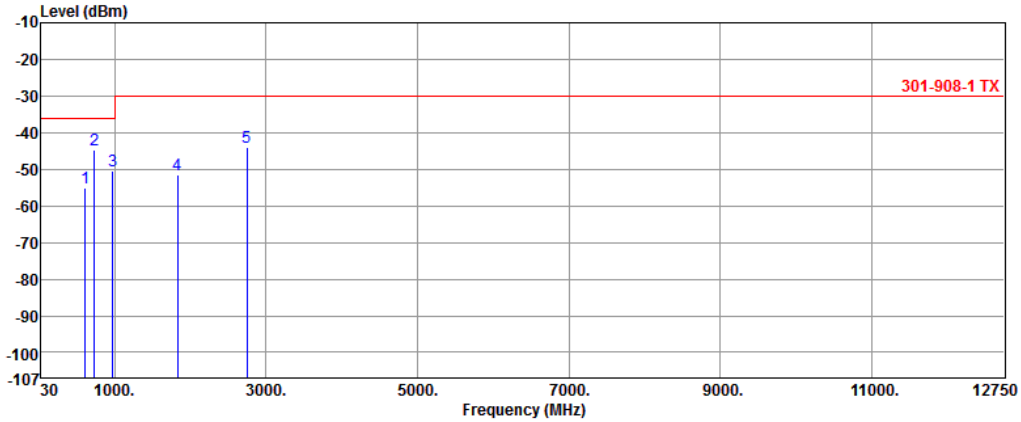
3.1.65 Radiated Emissions - traffic mode (LTE Band 8)

Test Channel (MHz)	914.9	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	364.65	-65.17	-36.00	-29.17	0.47	-65.64
2	697.36	-54.84	-36.00	-18.84	7.61	-62.45
3	971.87	-58.52	-36.00	-22.52	11.81	-70.33
4	1829.63	-52.72	-30.00	-22.72	0.05	-52.77
5	2744.62	-48.27	-30.00	-18.27	4.18	-52.45

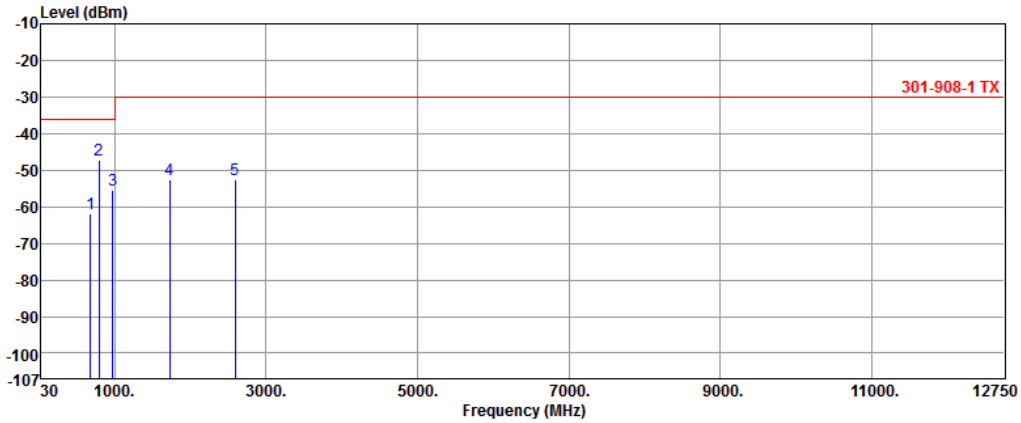
Test Channel (MHz)	914.9	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	607.15	-55.02	-36.00	-19.02	7.13	-62.15
2	728.40	-44.73	-36.00	-8.73	8.68	-53.41
3	971.87	-50.39	-36.00	-14.39	11.76	-62.15
4	1829.74	-51.54	-30.00	-21.54	0.05	-51.59
5	2744.48	-44.01	-30.00	-14.01	3.99	-48.00

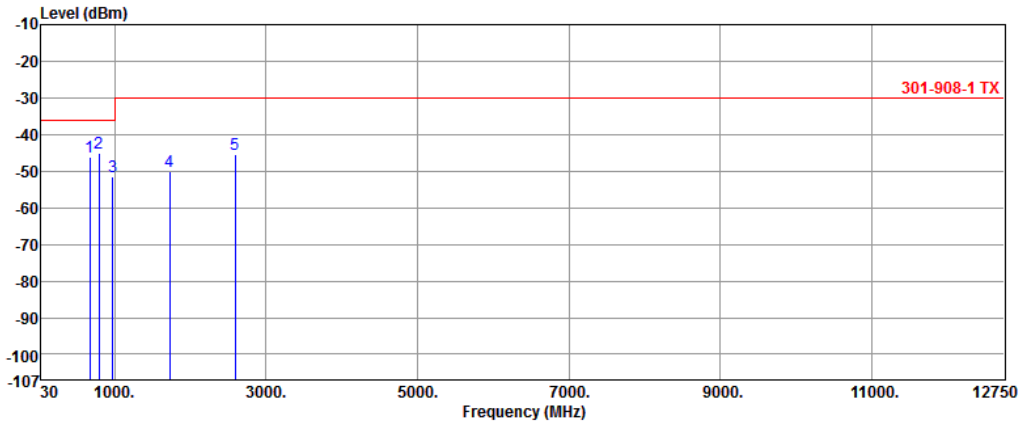
3.1.66 Radiated Emissions - traffic mode (LTE Band 20)

Test Channel (MHz)	861.885	Sub Carrier Spacing	3.75kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	679.90	-62.01	-36.00	-26.01	7.50	-69.51
2	789.51	-47.09	-36.00	-11.09	9.37	-56.46
3	971.87	-55.54	-36.00	-19.54	11.81	-67.35
4	1723.93	-52.74	-30.00	-22.74	-0.77	-51.97
5	2585.92	-52.52	-30.00	-22.52	3.89	-56.41

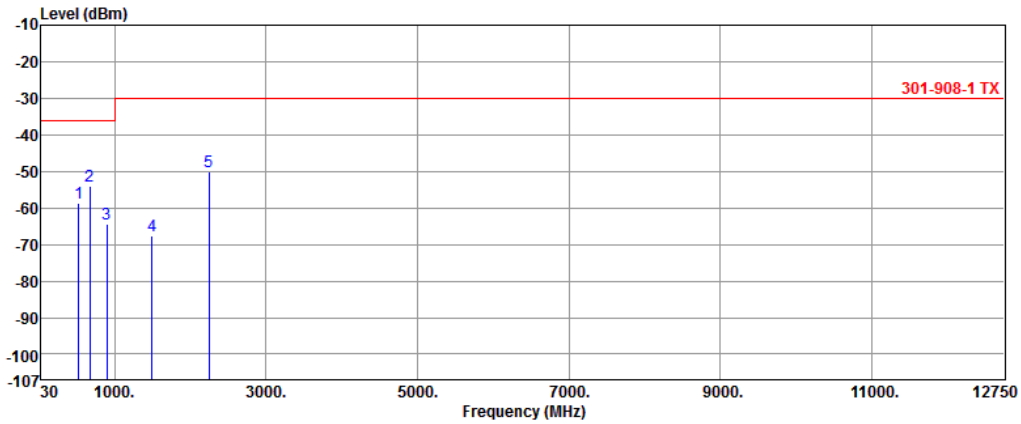
Test Channel (MHz)	861.885	Sub Carrier Spacing	3.75kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	668.26	-46.27	-36.00	-10.27	6.80	-53.07
2	789.51	-45.13	-36.00	-9.13	9.12	-54.25
3	971.87	-51.48	-36.00	-15.48	11.76	-63.24
4	1723.95	-50.10	-30.00	-20.10	-0.86	-49.24
5	2585.83	-45.38	-30.00	-15.38	3.71	-49.09

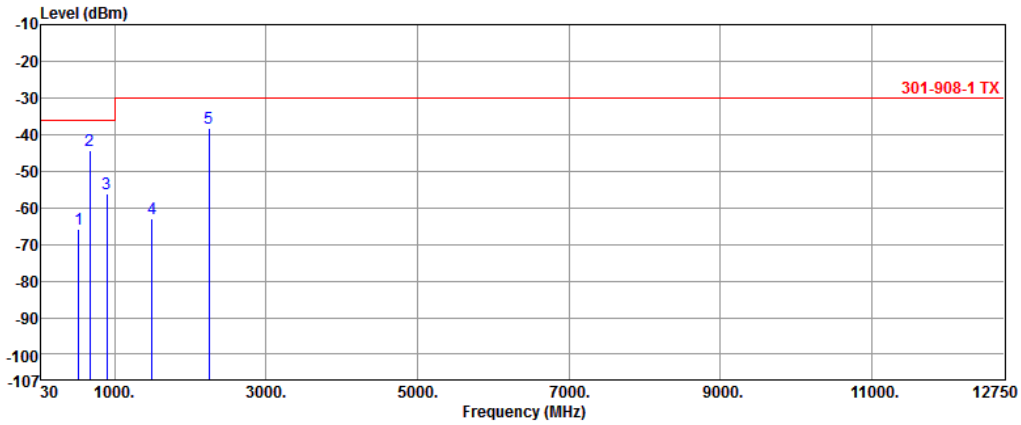
3.1.67 Radiated Emissions - traffic mode (LTE Band 28)

Test Channel (MHz)	747.9	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	523.73	-58.80	-36.00	-22.80	4.61	-63.41
2	673.11	-53.85	-36.00	-17.85	7.34	-61.19
3	897.18	-64.43	-36.00	-28.43	10.96	-75.39
4	1495.77	-67.67	-30.00	-37.67	-0.51	-67.16
5	2243.52	-50.19	-30.00	-20.19	3.77	-53.96

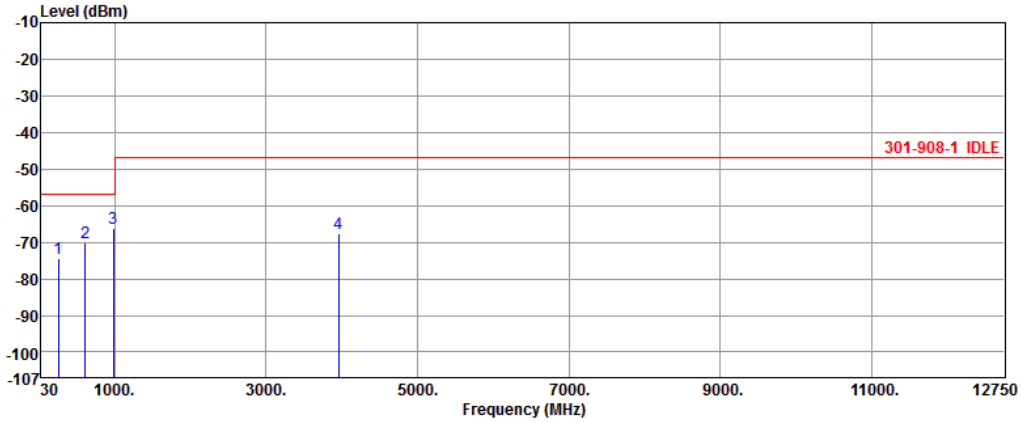
Test Channel (MHz)	747.9	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	523.73	-65.88	-36.00	-29.88	4.34	-70.22
2	673.11	-44.21	-36.00	-8.21	6.85	-51.06
3	897.18	-56.18	-36.00	-20.18	10.93	-67.11
4	1495.80	-62.94	-30.00	-32.94	-0.53	-62.41
5	2243.59	-38.45	-30.00	-8.45	3.77	-42.22

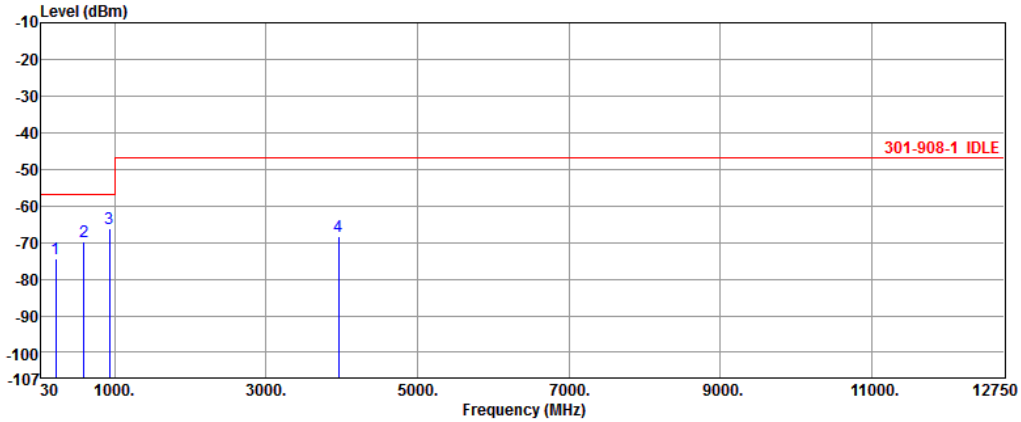
3.1.68 Radiated Emissions - Idle mode (LTE Band 1)

Test Channel (MHz)	1979.9	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	255.04	-74.44	-57.00	-17.44	-1.43	-73.01
2	610.06	-69.96	-57.00	-12.96	6.92	-76.88
3	982.54	-66.31	-57.00	-9.31	11.94	-78.25
4	3959.81	-67.80	-47.00	-20.80	8.42	-76.22

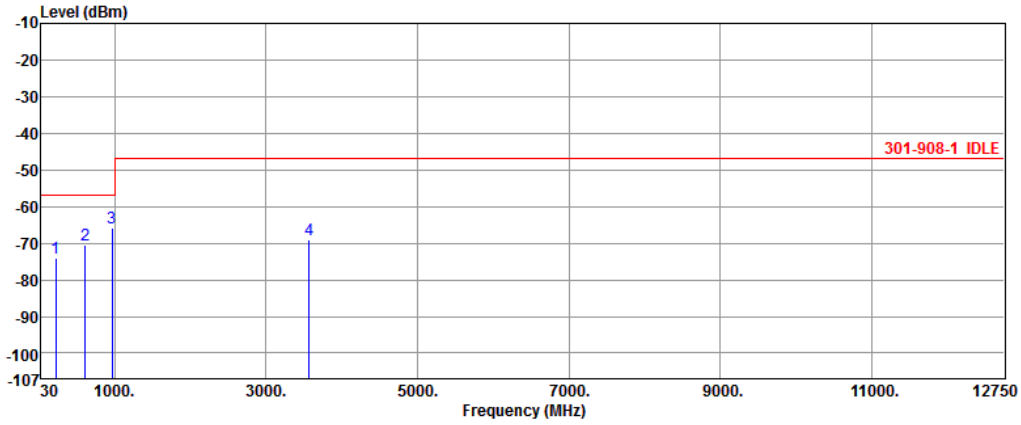
Test Channel (MHz)	1979.9	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	216.24	-74.32	-57.00	-17.32	-4.03	-70.29
2	596.48	-69.72	-57.00	-12.72	6.51	-76.23
3	930.16	-66.27	-57.00	-9.27	11.70	-77.97
4	3959.82	-68.20	-47.00	-21.20	8.11	-76.31

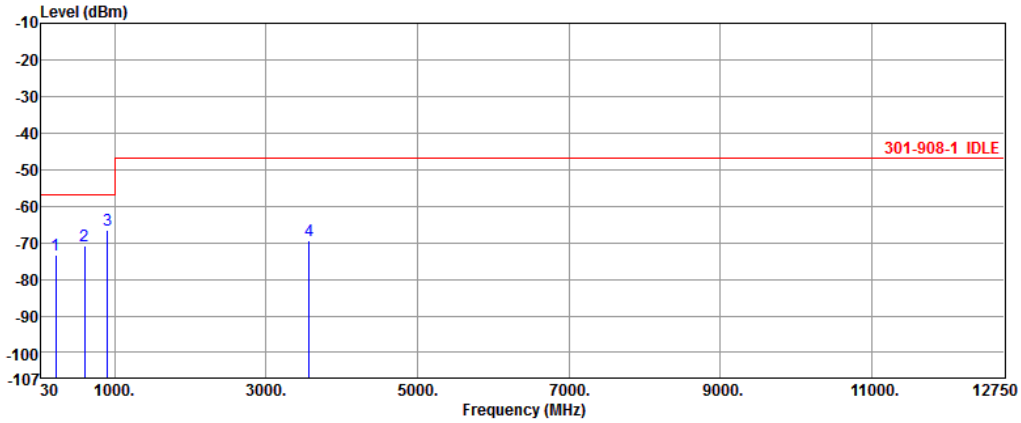
3.1.69 Radiated Emissions - Idle mode (LTE Band 3)

Test Channel (MHz)	1784.9	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	219.15	-73.94	-57.00	-16.94	-3.72	-70.22
2	606.18	-70.63	-57.00	-13.63	6.77	-77.40
3	966.05	-65.68	-57.00	-8.68	11.89	-77.57
4	3569.76	-69.24	-47.00	-22.24	7.10	-76.34

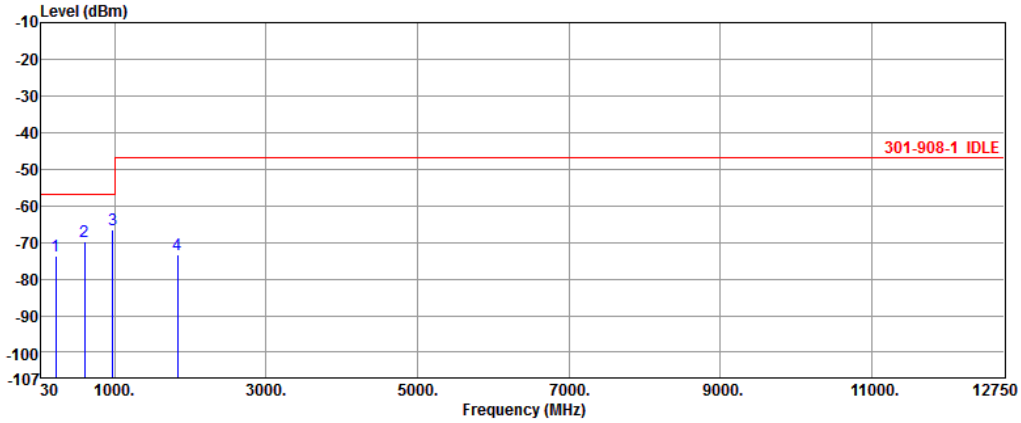
Test Channel (MHz)	1784.9	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	217.21	-73.47	-57.00	-16.47	-4.07	-69.40
2	603.27	-70.84	-57.00	-13.84	6.93	-77.77
3	907.85	-66.48	-57.00	-9.48	11.09	-77.57
4	3569.84	-69.42	-47.00	-22.42	6.83	-76.25

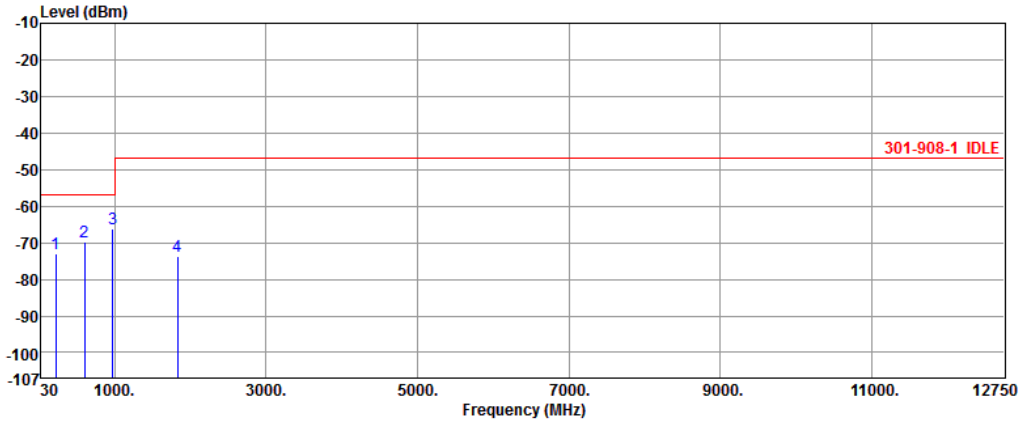
3.1.70 Radiated Emissions - Idle mode (LTE Band 8)

Test Channel (MHz)	914.9	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	220.12	-73.69	-57.00	-16.69	-3.64	-70.05
2	600.36	-69.74	-57.00	-12.74	6.56	-76.30
3	972.84	-66.44	-57.00	-9.44	11.78	-78.22
4	1829.84	-73.33	-47.00	-26.33	0.05	-73.38

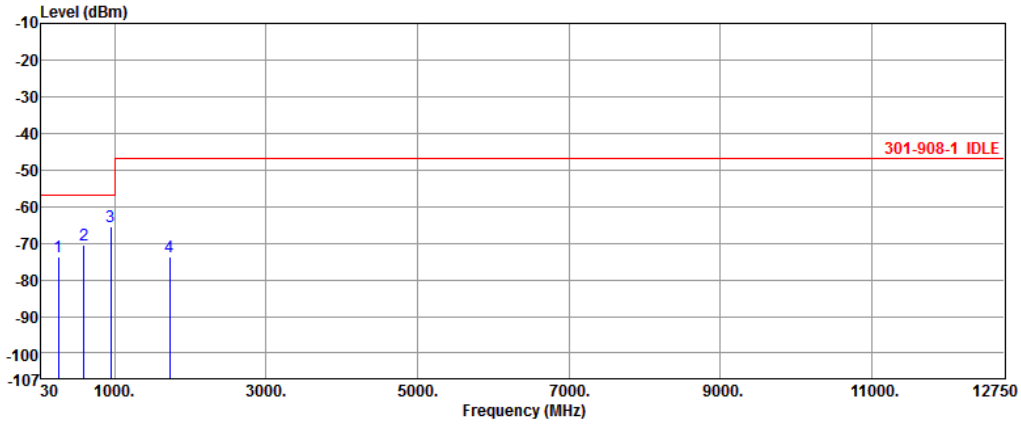
Test Channel (MHz)	914.9	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	217.21	-72.91	-57.00	-15.91	-4.07	-68.84
2	598.42	-69.91	-57.00	-12.91	6.60	-76.51
3	971.87	-66.25	-57.00	-9.25	11.76	-78.01
4	1829.81	-73.57	-47.00	-26.57	0.05	-73.62

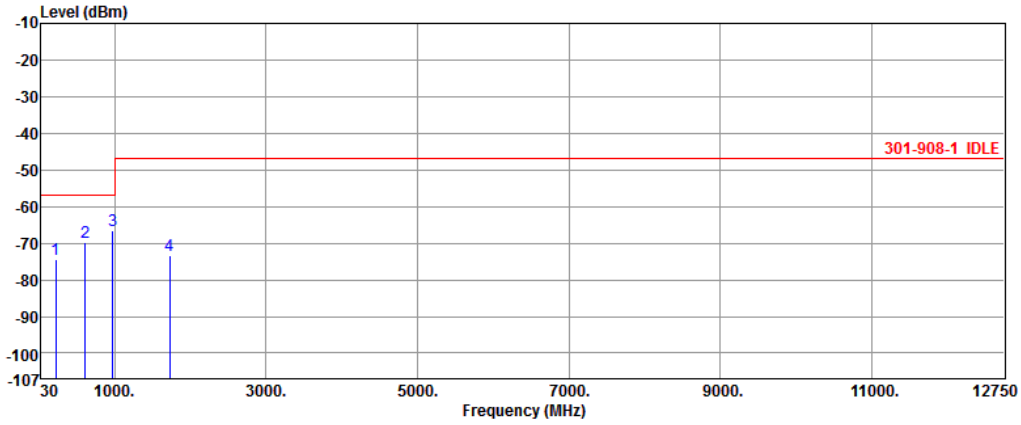
3.1.71 Radiated Emissions - Idle mode (LTE Band 20)

Test Channel (MHz)	861.885	Sub Carrier Spacing	3.75kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	256.90	-73.66	-57.00	-16.66	-1.46	-72.20
2	594.34	-70.57	-57.00	-13.57	6.55	-77.12
3	946.12	-65.42	-57.00	-8.42	12.05	-77.47
4	1723.21	-73.75	-47.00	-26.75	-0.77	-72.98

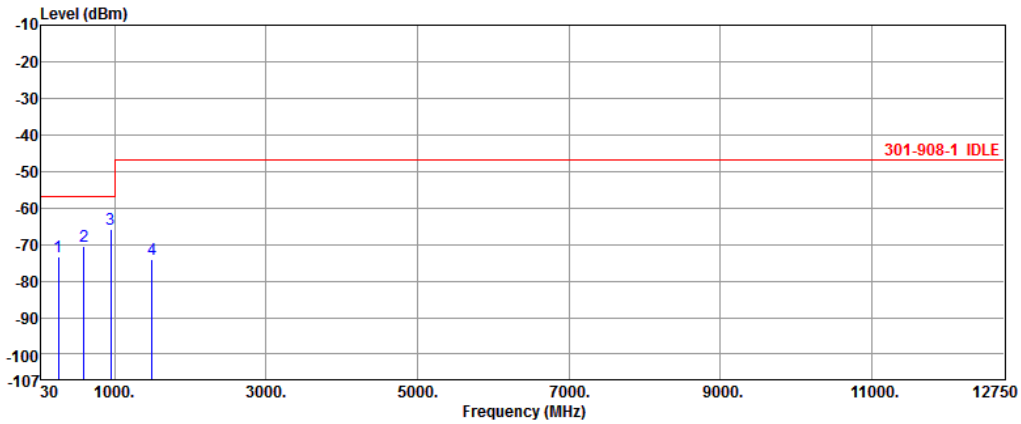
Test Channel (MHz)	861.885	Sub Carrier Spacing	3.75kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	217.58	-74.36	-57.00	-17.36	-4.09	-70.27
2	606.96	-69.65	-57.00	-12.65	7.13	-76.78
3	972.54	-66.41	-57.00	-9.41	11.74	-78.15
4	1723.53	-73.42	-47.00	-26.42	-0.86	-72.56

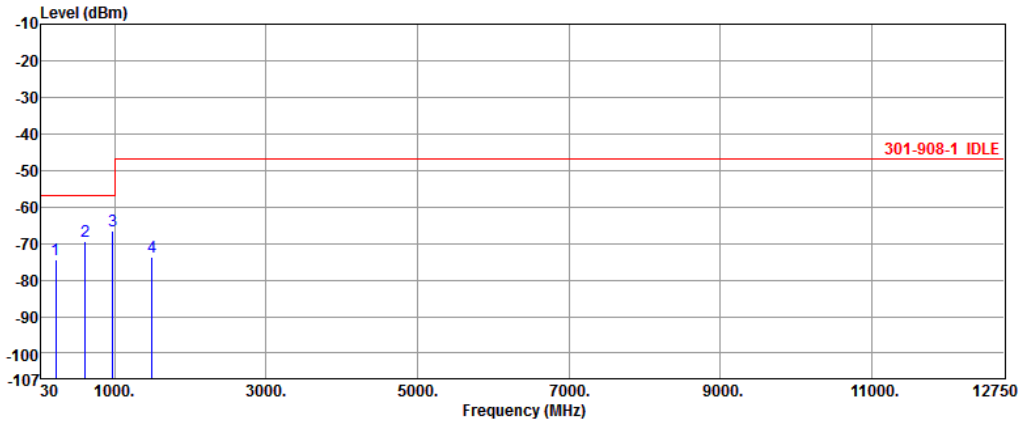
3.1.72 Radiated Emissions - Idle mode (LTE Band 28)

Test Channel (MHz)	747.9	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	256.01	-73.25	-57.00	-16.25	-1.45	-71.80
2	594.54	-70.45	-57.00	-13.45	6.55	-77.00
3	946.65	-65.76	-57.00	-8.76	12.04	-77.80
4	1495.77	-74.05	-47.00	-27.05	-0.51	-73.54

Test Channel (MHz)	747.9	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz

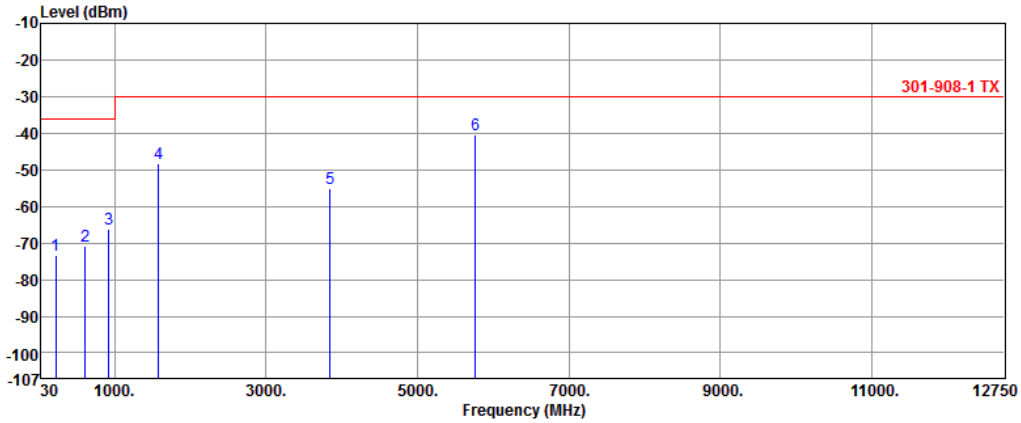


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	217.21	-74.28	-57.00	-17.28	-4.07	-70.21
2	606.18	-69.35	-57.00	-12.35	7.10	-76.45
3	972.84	-66.64	-57.00	-9.64	11.75	-78.39
4	1495.79	-73.86	-47.00	-26.86	-0.53	-73.33

NB-IoT_ Configuration 2: EFF6925A3S antenna _ In-band

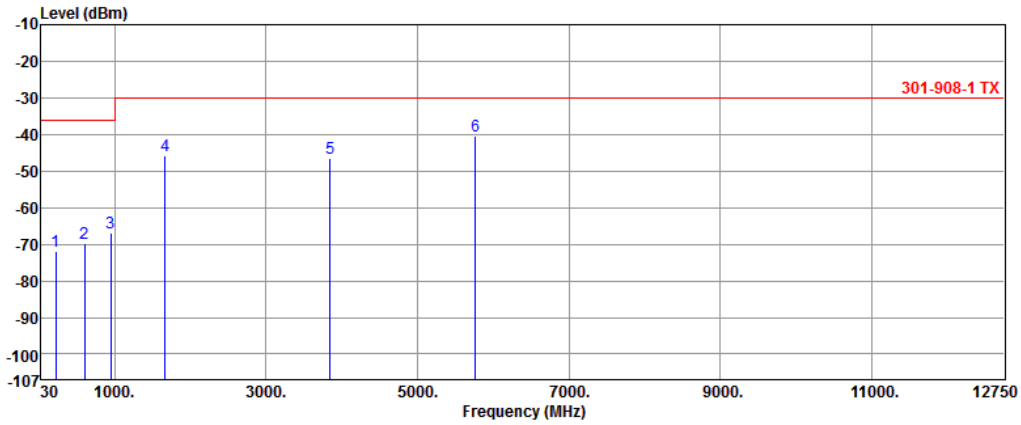
3.1.73 Radiated Emissions - traffic mode (LTE Band 1)

Test Channel (MHz)	1920.7	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	216.57	-73.46	-36.00	-37.46	-4.05	-69.41
2	606.26	-70.80	-36.00	-34.80	6.78	-77.58
3	923.05	-66.25	-36.00	-30.25	11.43	-77.68
4	1580.02	-48.39	-30.00	-18.39	-1.07	-47.32
5	3841.23	-55.03	-30.00	-25.03	8.24	-63.27
6	5761.92	-40.58	-30.00	-10.58	12.60	-53.18

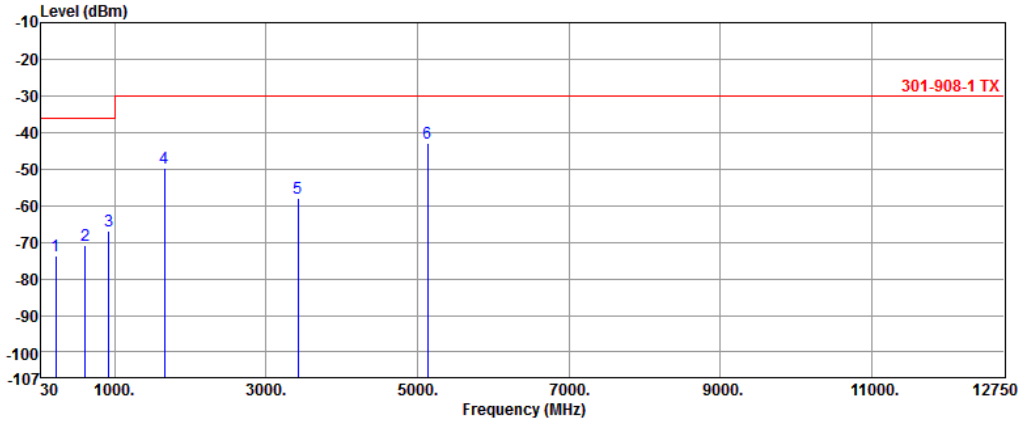
Test Channel (MHz)	1920.7	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	216.35	-71.85	-36.00	-35.85	-4.04	-67.81
2	604.00	-69.85	-36.00	-33.85	6.98	-76.83
3	944.24	-66.87	-36.00	-30.87	11.60	-78.47
4	1667.05	-45.67	-30.00	-15.67	-1.07	-44.60
5	3841.30	-46.64	-30.00	-16.64	8.10	-54.74
6	5761.69	-40.51	-30.00	-10.51	12.62	-53.13

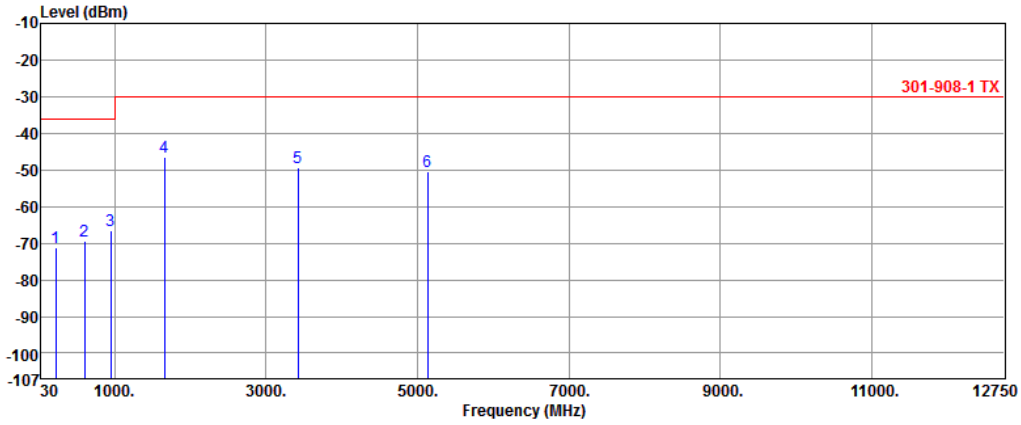
3.1.74 Radiated Emissions - traffic mode (LTE Band 3)

Test Channel (MHz)	1710.6	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	216.87	-73.66	-36.00	-37.66	-4.02	-69.64
2	606.87	-70.96	-36.00	-34.96	6.80	-77.76
3	923.87	-66.88	-36.00	-30.88	11.47	-78.35
4	1651.59	-49.89	-30.00	-19.89	-1.09	-48.80
5	3421.23	-58.14	-30.00	-28.14	6.09	-64.23
6	5131.43	-42.95	-30.00	-12.95	12.00	-54.95

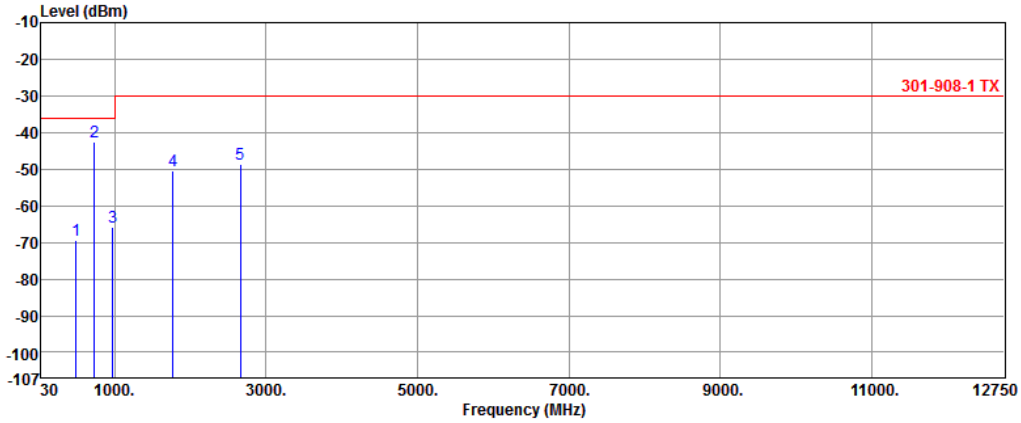
Test Channel (MHz)	1710.6	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	216.78	-71.32	-36.00	-35.32	-4.06	-67.26
2	604.85	-69.48	-36.00	-33.48	7.05	-76.53
3	944.59	-66.55	-36.00	-30.55	11.60	-78.15
4	1651.59	-46.34	-30.00	-16.34	-1.08	-45.26
5	3421.19	-49.42	-30.00	-19.42	5.73	-55.15
6	5131.51	-50.33	-30.00	-20.33	11.83	-62.16

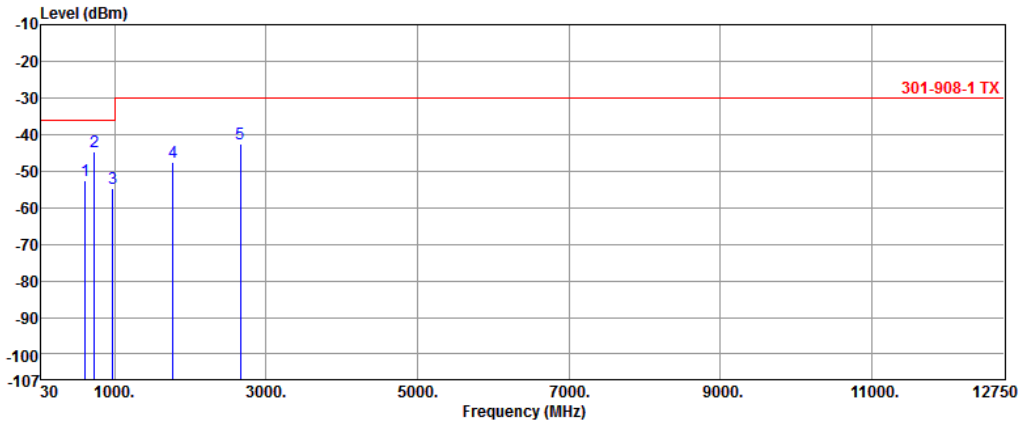
3.1.75 Radiated Emissions - traffic mode (LTE Band 8)

Test Channel (MHz)	885.99	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	485.90	-69.33	-36.00	-33.33	3.31	-72.64
2	729.37	-42.65	-36.00	-6.65	8.18	-50.83
3	971.87	-65.72	-36.00	-29.72	11.81	-77.53
4	1771.89	-50.36	-30.00	-20.36	-0.39	-49.97
5	2657.71	-48.78	-30.00	-18.78	3.89	-52.67

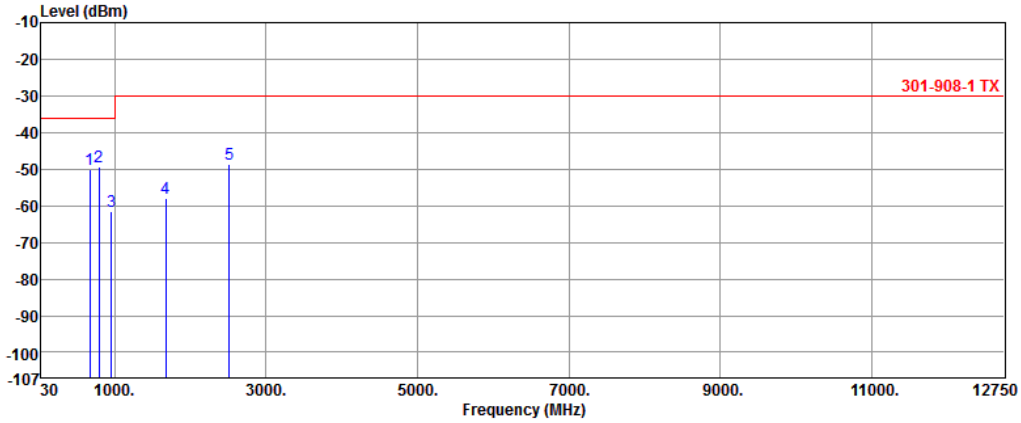
Test Channel (MHz)	885.99	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	607.15	-52.54	-36.00	-16.54	7.13	-59.67
2	728.40	-44.65	-36.00	-8.65	8.68	-53.33
3	971.87	-54.61	-36.00	-18.61	11.76	-66.37
4	1771.74	-47.72	-30.00	-17.72	-0.43	-47.29
5	2657.79	-42.63	-30.00	-12.63	3.83	-46.46

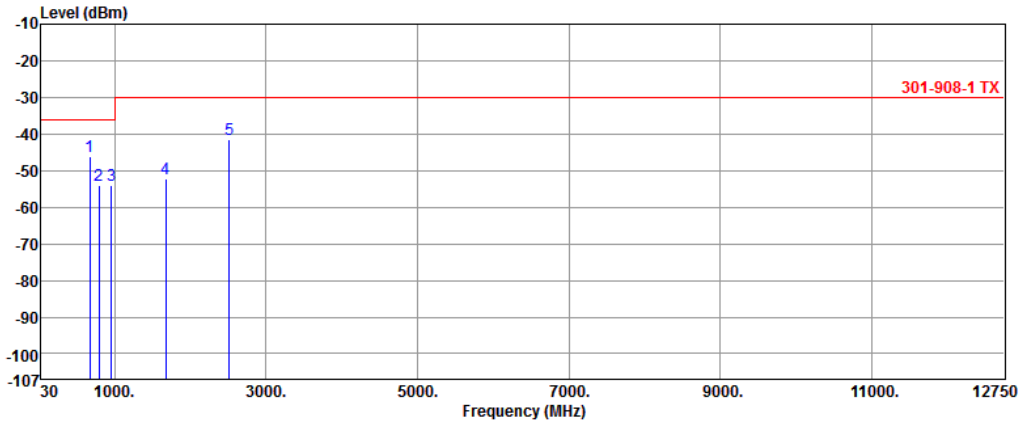
3.1.76 Radiated Emissions - traffic mode (LTE Band 20)

Test Channel (MHz)	837.99	Sub Carrier Spacing	3.75kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	668.26	-50.21	-36.00	-14.21	7.28	-57.49
2	789.51	-49.40	-36.00	-13.40	9.37	-58.77
3	959.26	-61.43	-36.00	-25.43	11.77	-73.20
4	1675.82	-57.88	-30.00	-27.88	-1.02	-56.86
5	2513.66	-48.69	-30.00	-18.69	3.44	-52.13

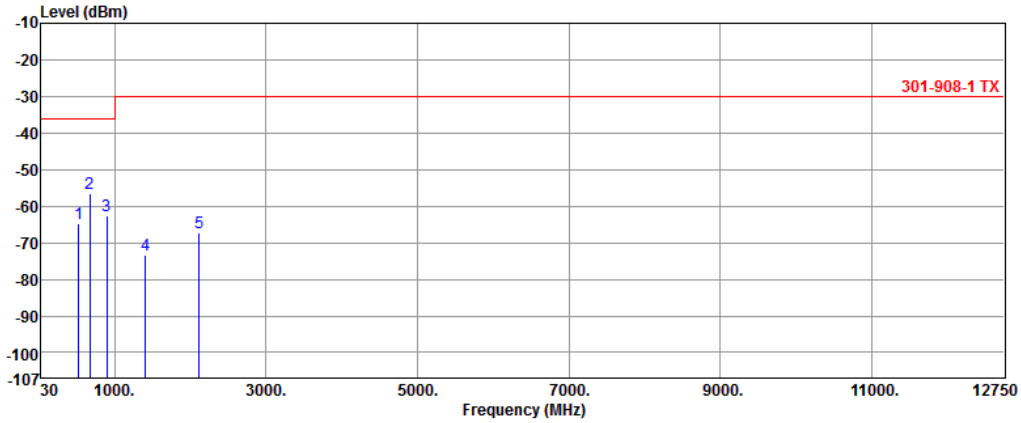
Test Channel (MHz)	837.99	Sub Carrier Spacing	3.75kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	668.26	-46.18	-36.00	-10.18	6.80	-52.98
2	789.51	-53.99	-36.00	-17.99	9.12	-63.11
3	959.26	-54.11	-36.00	-18.11	11.54	-65.65
4	1675.84	-52.36	-30.00	-22.36	-1.08	-51.28
5	2513.36	-41.35	-30.00	-11.35	3.34	-44.69

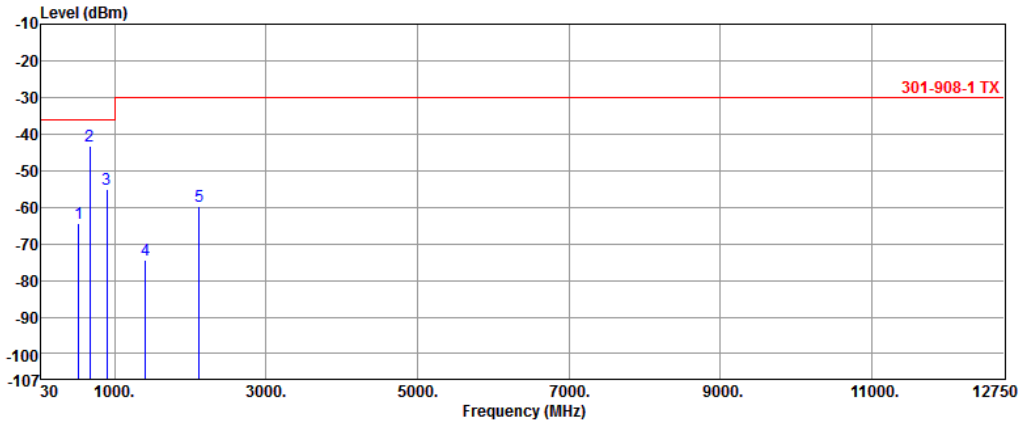
3.1.77 Radiated Emissions - traffic mode (LTE Band 28)

Test Channel (MHz)	703.6	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	523.73	-64.86	-36.00	-28.86	4.61	-69.47
2	673.11	-56.55	-36.00	-20.55	7.34	-63.89
3	897.18	-62.51	-36.00	-26.51	10.96	-73.47
4	1406.96	-73.38	-30.00	-43.38	-0.71	-72.67
5	2110.82	-67.41	-30.00	-37.41	2.63	-70.04

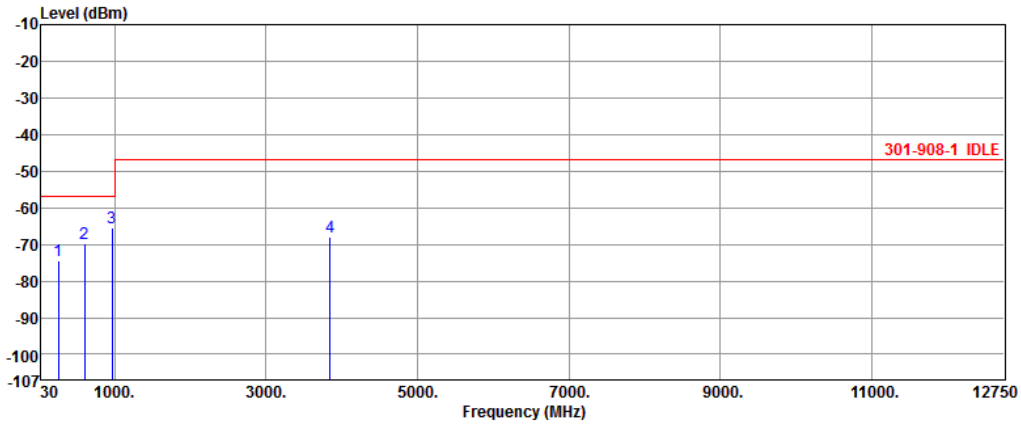
Test Channel (MHz)	703.6	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	523.73	-64.33	-36.00	-28.33	4.34	-68.67
2	673.11	-43.30	-36.00	-7.30	6.85	-50.15
3	898.15	-55.12	-36.00	-19.12	10.98	-66.10
4	1407.31	-74.50	-30.00	-44.50	-0.73	-73.77
5	2110.91	-59.67	-30.00	-29.67	2.69	-62.36

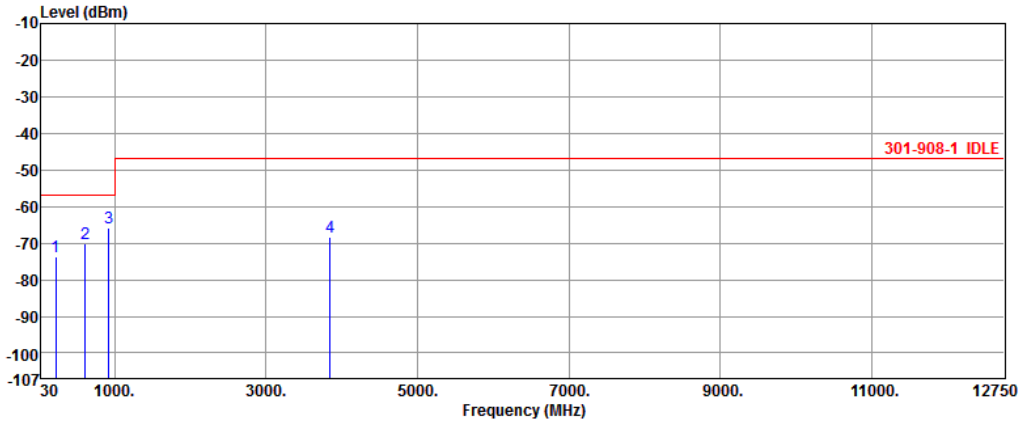
3.1.78 Radiated Emissions - Idle mode (LTE Band 1)

Test Channel (MHz)	1920.7	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	256.98	-74.34	-57.00	-17.34	-1.46	-72.88
2	603.27	-69.90	-57.00	-12.90	6.67	-76.57
3	966.05	-65.52	-57.00	-8.52	11.89	-77.41
4	3841.42	-67.90	-47.00	-20.90	8.24	-76.14

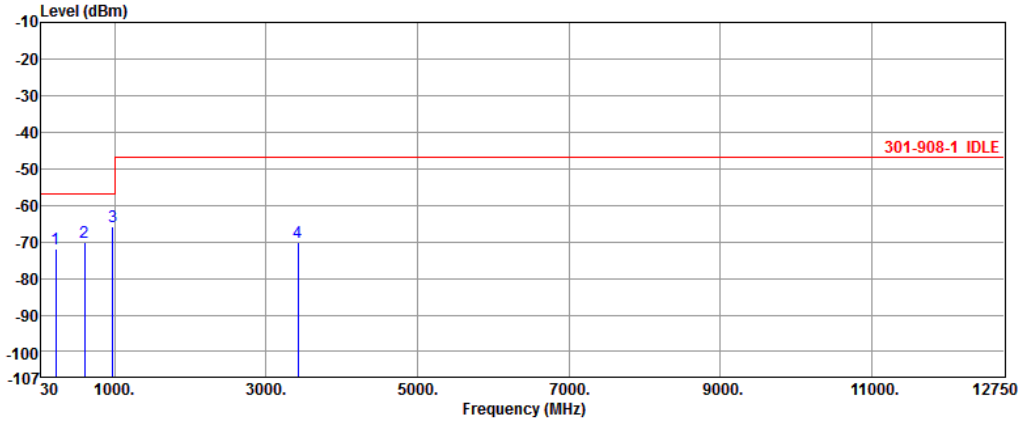
Test Channel (MHz)	1920.7	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	216.24	-73.61	-57.00	-16.61	-4.03	-69.58
2	610.06	-70.26	-57.00	-13.26	7.23	-77.49
3	921.43	-65.80	-57.00	-8.80	11.20	-77.00
4	3841.42	-68.17	-47.00	-21.17	8.10	-76.27

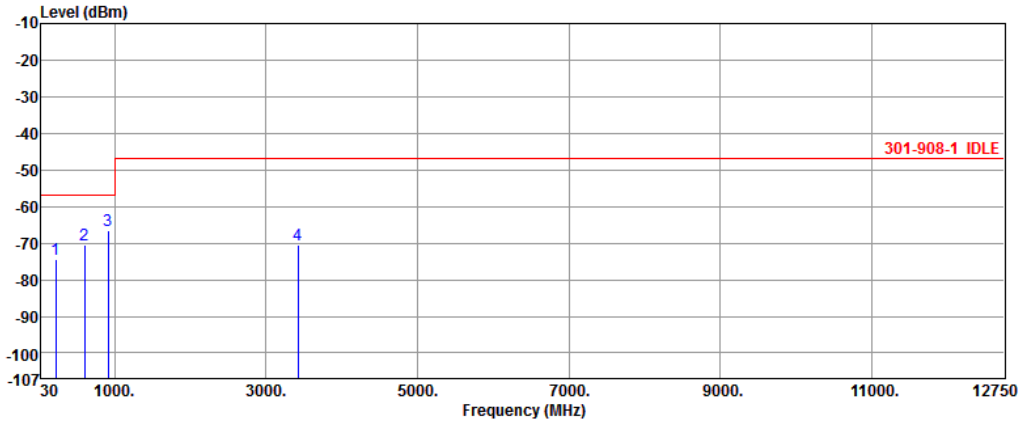
3.1.79 Radiated Emissions - Idle mode (LTE Band 3)

Test Channel (MHz)	1710.6	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	218.18	-72.10	-57.00	-15.10	-3.85	-68.25
2	597.45	-70.26	-57.00	-13.26	6.56	-76.82
3	972.84	-65.99	-57.00	-8.99	11.78	-77.77
4	3421.16	-70.16	-47.00	-23.16	6.09	-76.25

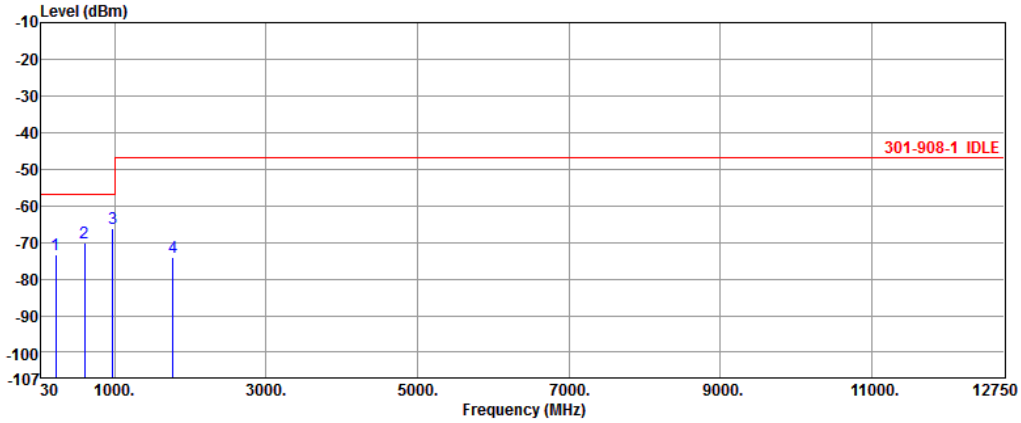
Test Channel (MHz)	1710.6	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	216.24	-74.54	-57.00	-17.54	-4.03	-70.51
2	602.30	-70.38	-57.00	-13.38	6.86	-77.24
3	915.61	-66.72	-57.00	-9.72	11.27	-77.99
4	3421.16	-70.60	-47.00	-23.60	5.73	-76.33

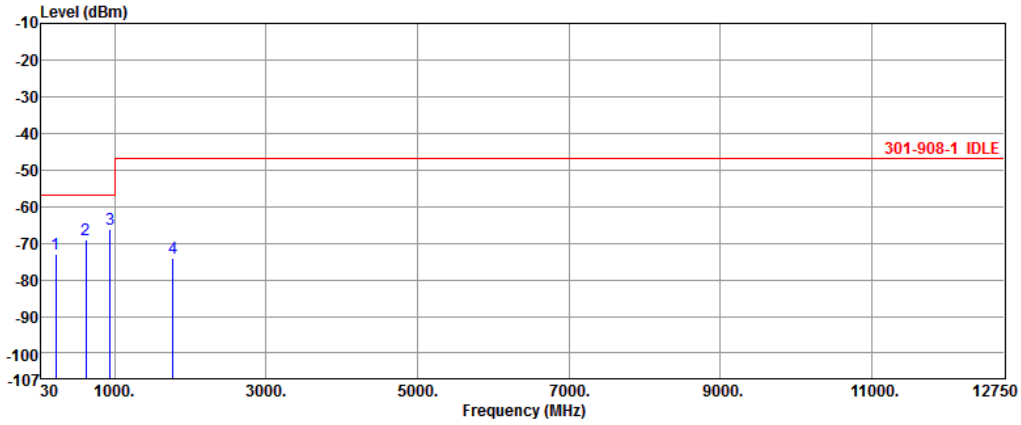
3.1.80 Radiated Emissions - Idle mode (LTE Band 8)

Test Channel (MHz)	885.99	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	221.09	-73.40	-57.00	-16.40	-3.84	-69.56
2	602.30	-70.00	-57.00	-13.00	6.63	-76.63
3	976.72	-66.19	-57.00	-9.19	11.75	-77.94
4	1772.02	-74.04	-47.00	-27.04	-0.39	-73.65

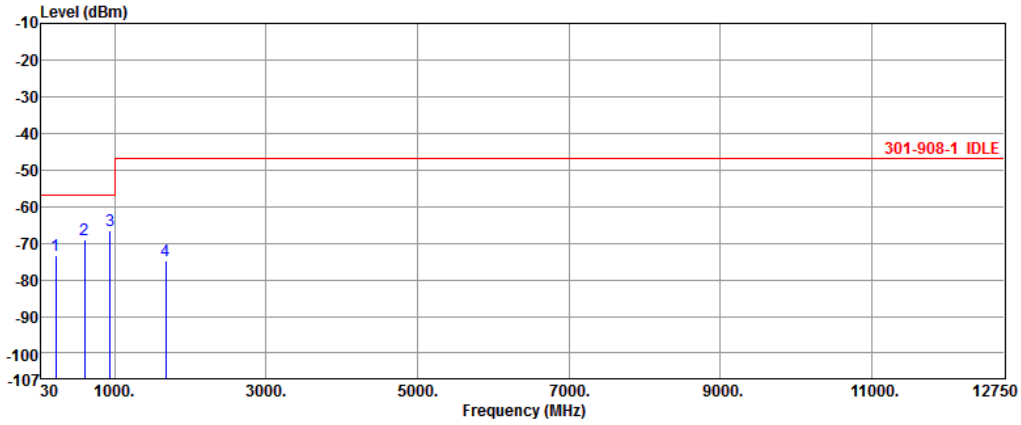
Test Channel (MHz)	885.99	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	217.21	-72.91	-57.00	-15.91	-4.07	-68.84
2	613.94	-69.16	-57.00	-12.16	7.23	-76.39
3	935.98	-66.32	-57.00	-9.32	11.47	-77.79
4	1771.98	-74.17	-47.00	-27.17	-0.42	-73.75

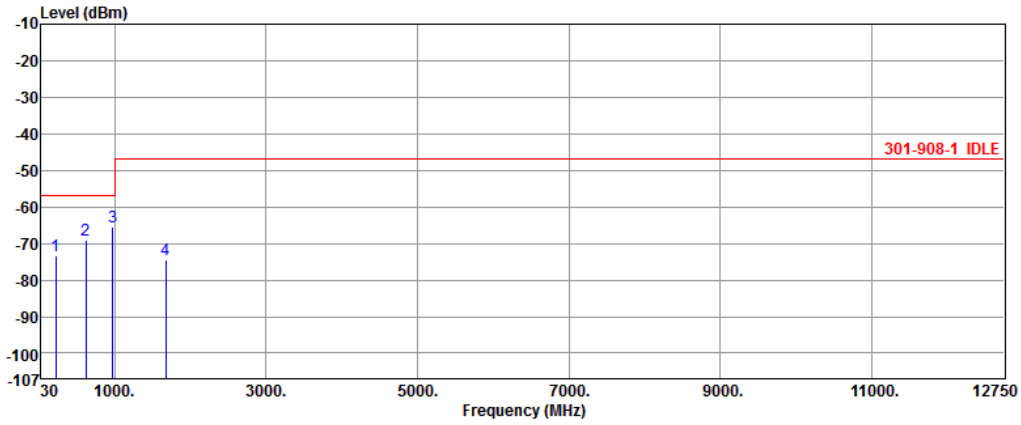
3.1.81 Radiated Emissions - Idle mode (LTE Band 20)

Test Channel (MHz)	837.99	Sub Carrier Spacing	3.75kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	219.84	-73.21	-57.00	-16.21	-3.64	-69.57
2	602.36	-69.18	-57.00	-12.18	6.64	-75.82
3	941.87	-66.41	-57.00	-9.41	12.04	-78.45
4	1676.20	-74.87	-47.00	-27.87	-1.02	-73.85

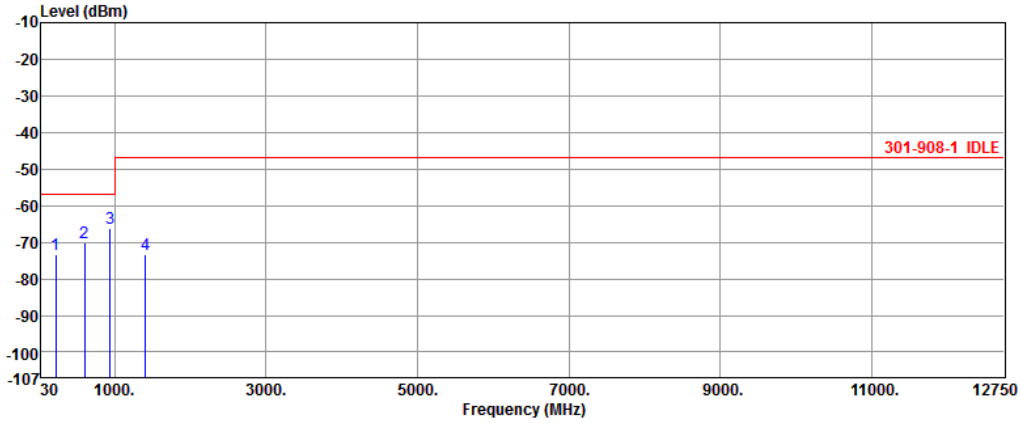
Test Channel (MHz)	837.99	Sub Carrier Spacing	3.75kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	217.95	-73.36	-57.00	-16.36	-4.10	-69.26
2	615.54	-69.15	-57.00	-12.15	7.20	-76.35
3	975.54	-65.66	-57.00	-8.66	11.70	-77.36
4	1676.12	-74.55	-47.00	-27.55	-1.08	-73.47

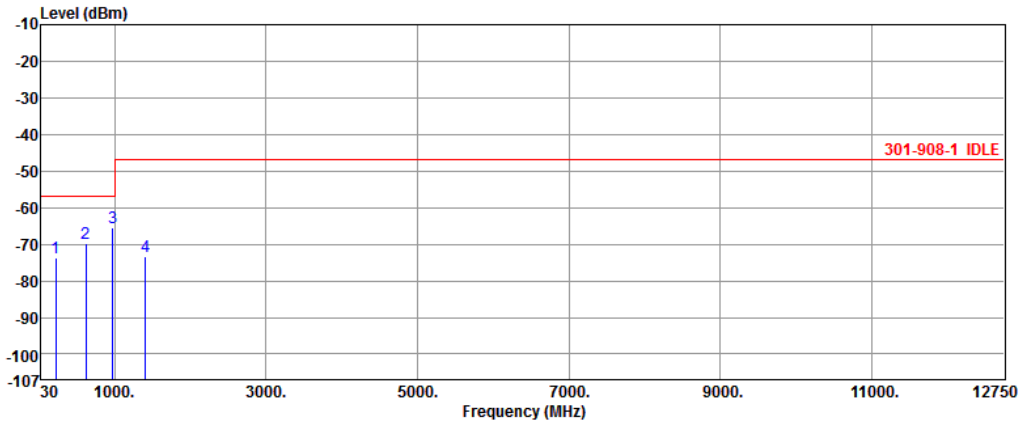
3.1.82 Radiated Emissions - Idle mode (LTE Band 28)

Test Channel (MHz)	703.6	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	219.15	-73.44	-57.00	-16.44	-3.72	-69.72
2	602.30	-70.00	-57.00	-13.00	6.63	-76.63
3	941.80	-66.33	-57.00	-9.33	12.04	-78.37
4	1407.24	-73.25	-47.00	-26.25	-0.71	-72.54

Test Channel (MHz)	703.6	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz

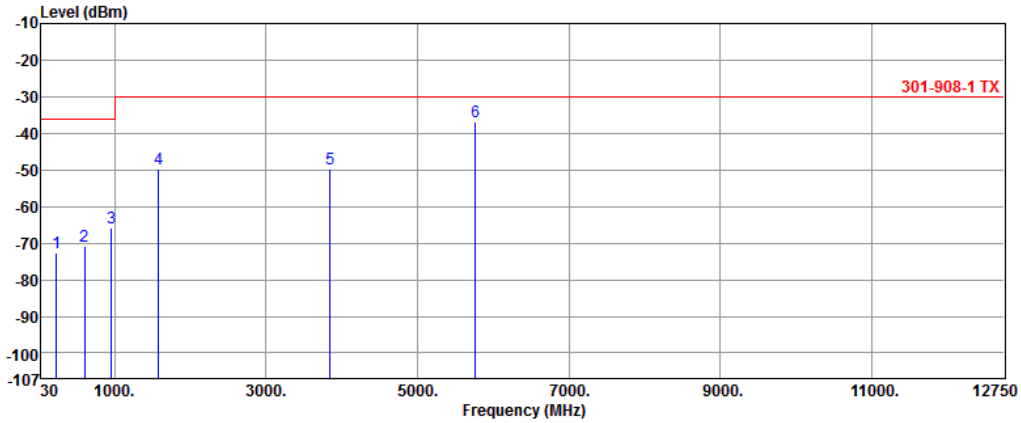


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	217.21	-73.69	-57.00	-16.69	-4.07	-69.62
2	615.88	-69.75	-57.00	-12.75	7.19	-76.94
3	975.75	-65.37	-57.00	-8.37	11.71	-77.08
4	1407.22	-73.49	-47.00	-26.49	-0.73	-72.76

NB-IoT_ Configuration 2: EFF6925A3S antenna _ Stand alone

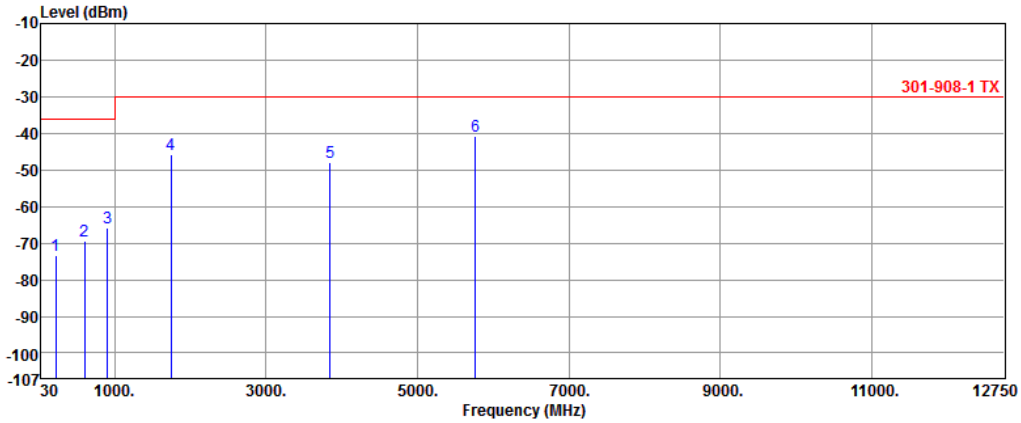
3.1.83 Radiated Emissions - traffic mode (LTE Band 1)

Test Channel (MHz)	1920.1	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	231.80	-72.76	-36.00	-36.76	-2.96	-69.80
2	599.99	-70.81	-36.00	-34.81	6.55	-77.36
3	956.87	-65.99	-36.00	-29.99	11.84	-77.83
4	1579.64	-49.57	-30.00	-19.57	-1.07	-48.50
5	3840.36	-49.61	-30.00	-19.61	8.24	-57.85
6	5760.06	-37.02	-30.00	-7.02	12.59	-49.61

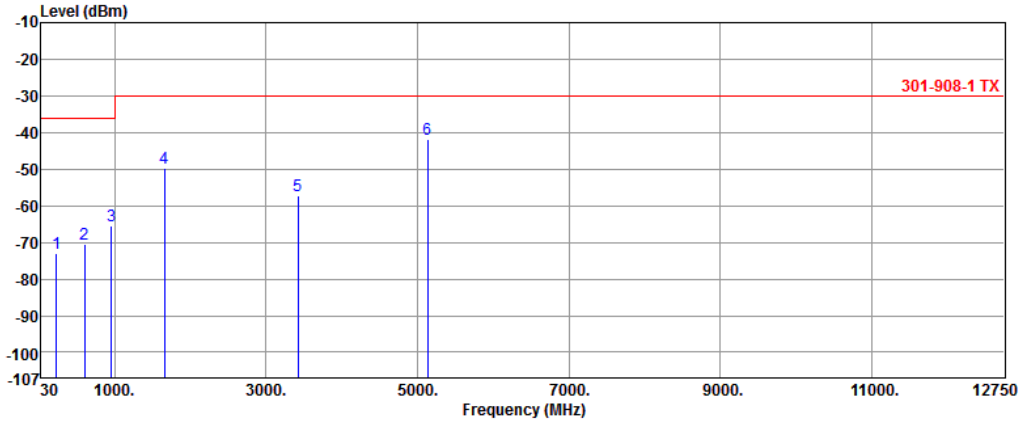
Test Channel (MHz)	1920.1	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	218.86	-73.37	-36.00	-37.37	-4.13	-69.24
2	604.85	-69.33	-36.00	-33.33	7.05	-76.38
3	905.87	-66.02	-36.00	-30.02	11.08	-77.10
4	1744.33	-45.95	-30.00	-15.95	-0.68	-45.27
5	3840.38	-47.82	-30.00	-17.82	8.10	-55.92
6	5759.99	-40.88	-30.00	-10.88	12.61	-53.49

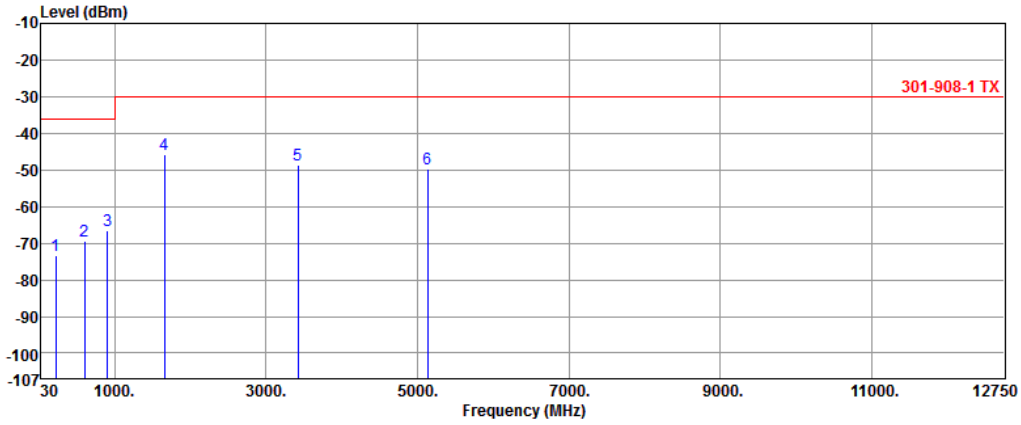
3.1.84 Radiated Emissions - traffic mode (LTE Band 3)

Test Channel (MHz)	1710.1	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	231.52	-72.88	-36.00	-36.88	-3.03	-69.85
2	599.54	-70.54	-36.00	-34.54	6.55	-77.09
3	956.10	-65.37	-36.00	-29.37	11.85	-77.22
4	1651.59	-49.75	-30.00	-19.75	-1.09	-48.66
5	3419.96	-57.23	-30.00	-27.23	6.08	-63.31
6	5130.09	-41.82	-30.00	-11.82	12.00	-53.82

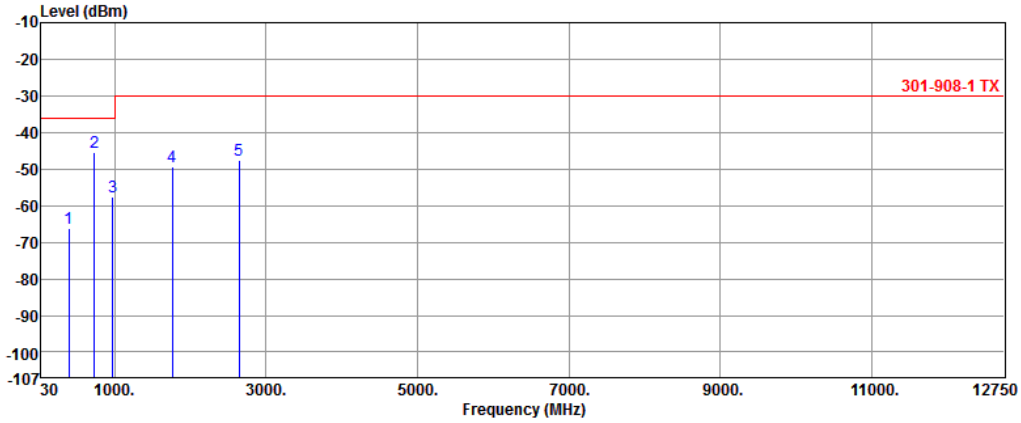
Test Channel (MHz)	1710.1	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	218.47	-73.41	-36.00	-37.41	-4.12	-69.29
2	604.47	-69.36	-36.00	-33.36	7.02	-76.38
3	905.54	-66.42	-36.00	-30.42	11.08	-77.50
4	1651.59	-45.94	-30.00	-15.94	-1.08	-44.86
5	3420.15	-48.77	-30.00	-18.77	5.72	-54.49
6	5130.19	-49.67	-30.00	-19.67	11.84	-61.51

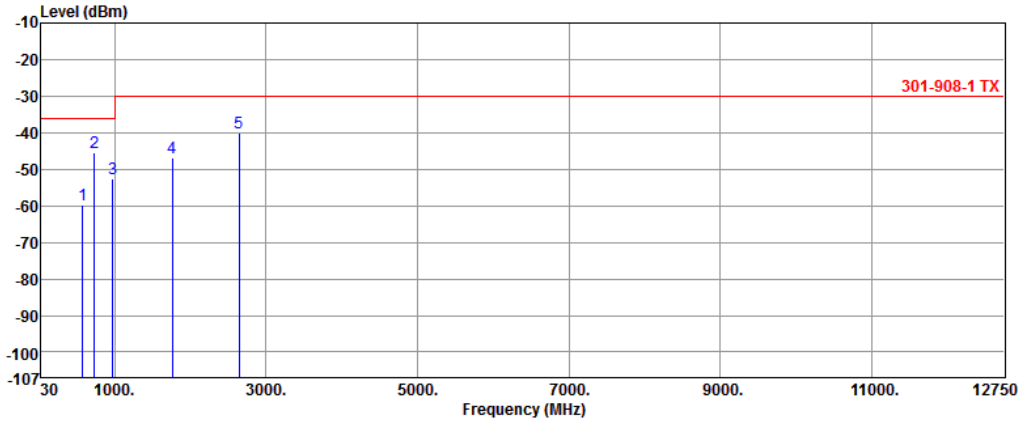
3.1.85 Radiated Emissions - traffic mode (LTE Band 8)

Test Channel (MHz)	880.1	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	393.75	-66.21	-36.00	-30.21	1.21	-67.42
2	729.37	-45.36	-36.00	-9.36	8.18	-53.54
3	971.87	-57.57	-36.00	-21.57	11.81	-69.38
4	1759.98	-49.52	-30.00	-19.52	-0.48	-49.04
5	2640.27	-47.76	-30.00	-17.76	3.92	-51.68

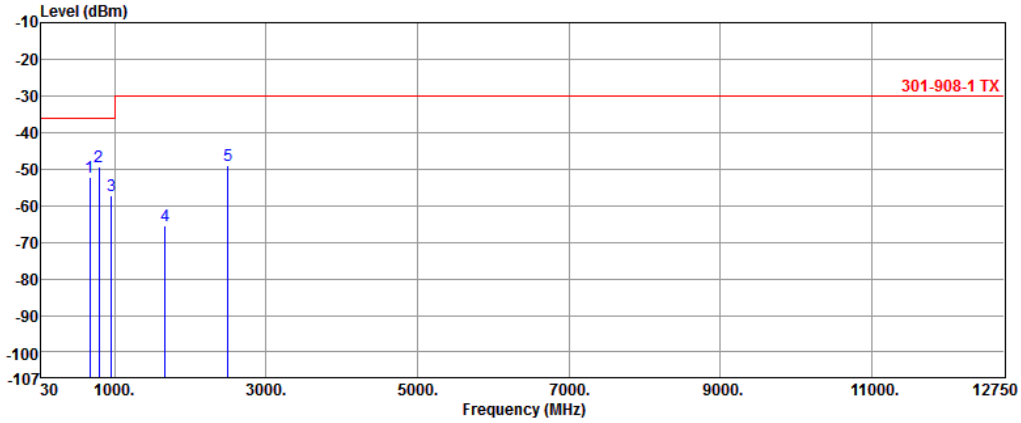
Test Channel (MHz)	880.1	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	576.11	-59.71	-36.00	-23.71	5.19	-64.90
2	728.40	-45.28	-36.00	-9.28	8.68	-53.96
3	971.87	-52.67	-36.00	-16.67	11.76	-64.43
4	1759.89	-47.02	-30.00	-17.02	-0.53	-46.49
5	2640.28	-40.04	-30.00	-10.04	3.82	-43.86

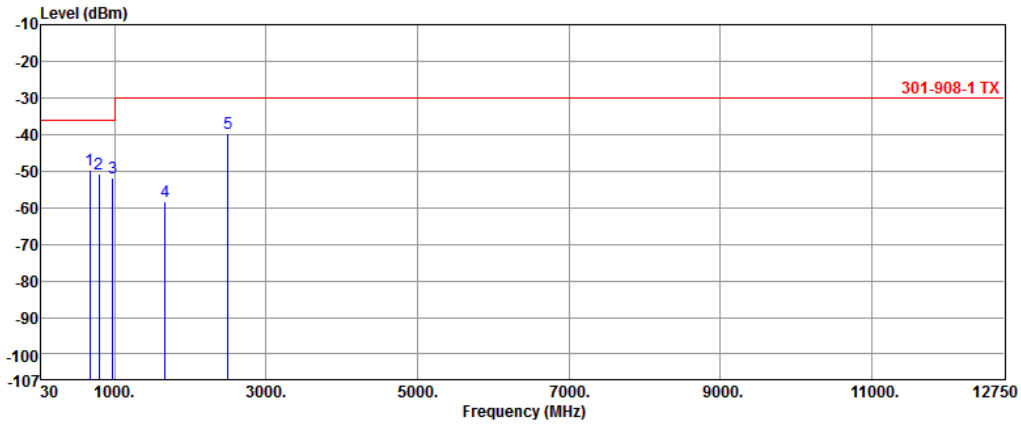
3.1.86 Radiated Emissions - traffic mode (LTE Band 20)

Test Channel (MHz)	832.1	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	668.26	-52.22	-36.00	-16.22	7.28	-59.50
2	789.51	-49.40	-36.00	-13.40	9.37	-58.77
3	953.44	-57.42	-36.00	-21.42	11.93	-69.35
4	1664.20	-65.56	-30.00	-35.56	-1.06	-64.50
5	2496.27	-48.89	-30.00	-18.89	3.35	-52.24

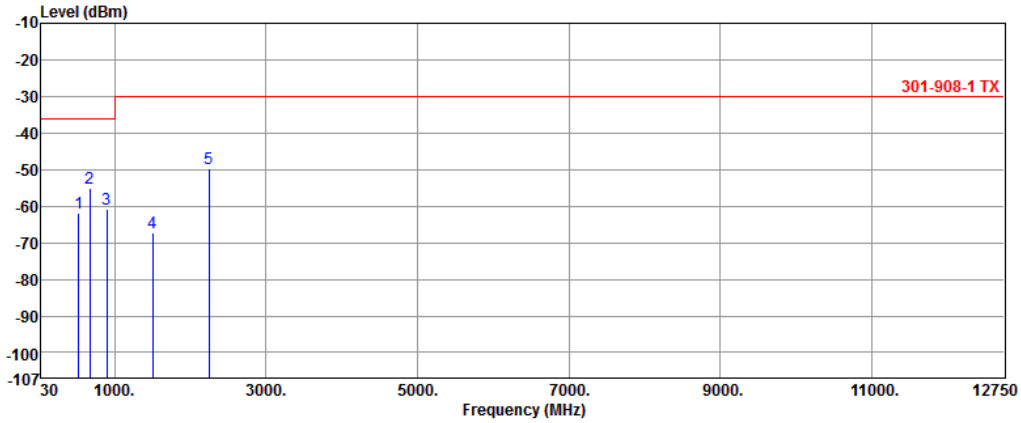
Test Channel (MHz)	832.1	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	668.26	-49.76	-36.00	-13.76	6.80	-56.56
2	789.51	-50.92	-36.00	-14.92	9.12	-60.04
3	971.87	-52.04	-36.00	-16.04	11.76	-63.80
4	1664.34	-58.25	-30.00	-28.25	-1.08	-57.17
5	2496.24	-39.60	-30.00	-9.60	3.26	-42.86

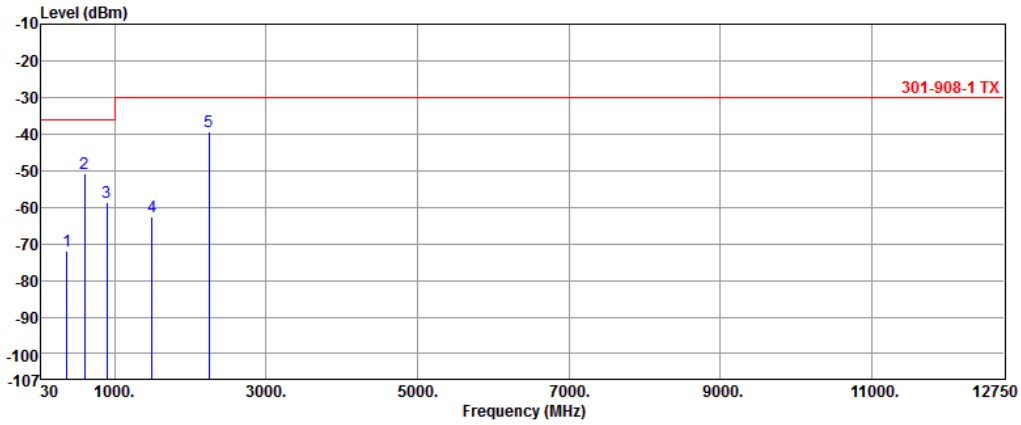
3.1.87 Radiated Emissions - traffic mode (LTE Band 28)

Test Channel (MHz)	747.9	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	523.73	-61.74	-36.00	-25.74	4.61	-66.35
2	673.11	-55.22	-36.00	-19.22	7.34	-62.56
3	897.18	-60.87	-36.00	-24.87	10.96	-71.83
4	1495.89	-67.38	-30.00	-37.38	-0.51	-66.87
5	2243.92	-49.63	-30.00	-19.63	3.77	-53.40

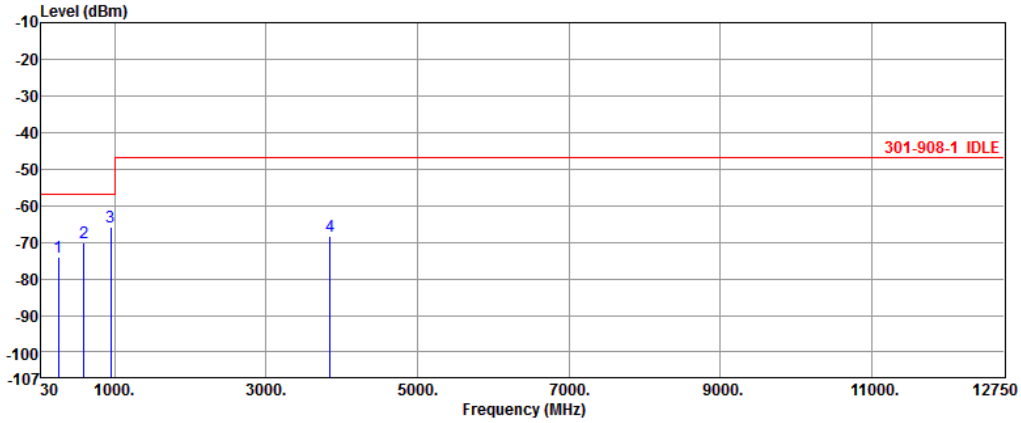
Test Channel (MHz)	747.9	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	365.62	-71.98	-36.00	-35.98	0.81	-72.79
2	598.42	-50.92	-36.00	-14.92	6.60	-57.52
3	898.15	-58.59	-36.00	-22.59	10.98	-69.57
4	1495.57	-62.52	-30.00	-32.52	-0.53	-61.99
5	2243.78	-39.52	-30.00	-9.52	3.77	-43.29

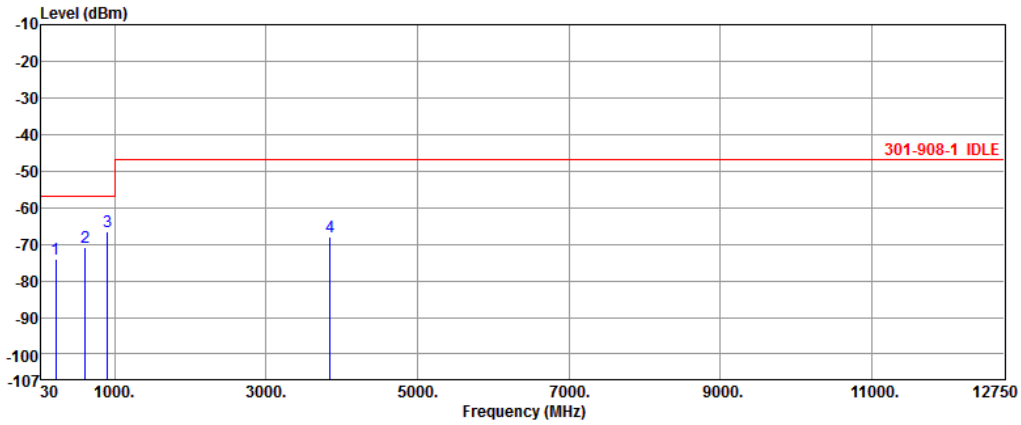
3.1.88 Radiated Emissions - Idle mode (LTE Band 1)

Test Channel (MHz)	1920.1	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	254.07	-74.17	-57.00	-17.17	-1.45	-72.72
2	596.48	-70.28	-57.00	-13.28	6.56	-76.84
3	943.74	-65.72	-57.00	-8.72	12.04	-77.76
4	3840.18	-68.21	-47.00	-21.21	8.24	-76.45

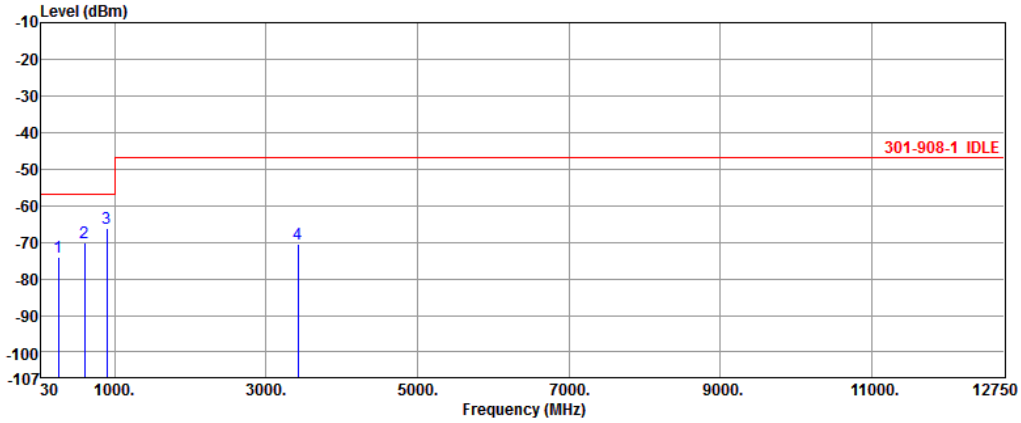
Test Channel (MHz)	1920.1	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	220.12	-74.04	-57.00	-17.04	-4.19	-69.85
2	606.18	-70.87	-57.00	-13.87	7.10	-77.97
3	900.09	-66.60	-57.00	-9.60	11.10	-77.70
4	3840.23	-68.14	-47.00	-21.14	8.10	-76.24

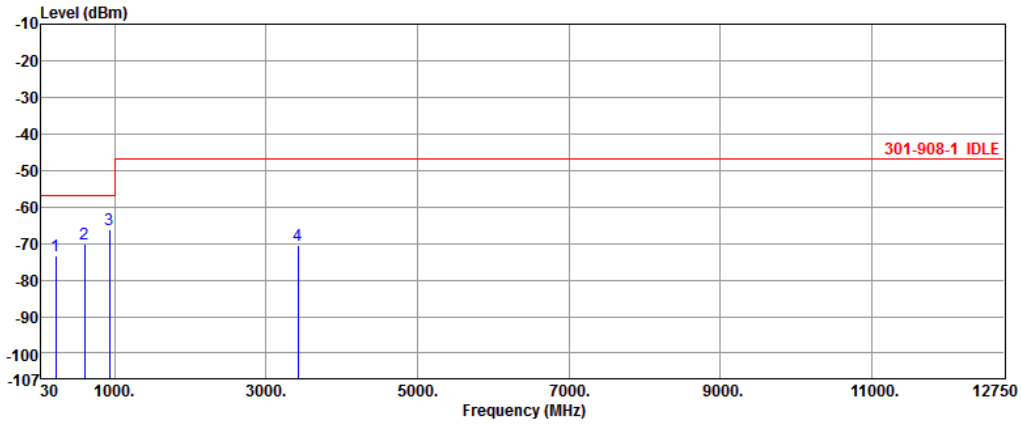
3.1.89 Radiated Emissions - Idle mode (LTE Band 3)

Test Channel (MHz)	1710.1	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	256.98	-74.07	-57.00	-17.07	-1.46	-72.61
2	601.33	-70.08	-57.00	-13.08	6.60	-76.68
3	896.21	-66.03	-57.00	-9.03	10.91	-76.94
4	3420.18	-70.37	-47.00	-23.37	6.09	-76.46

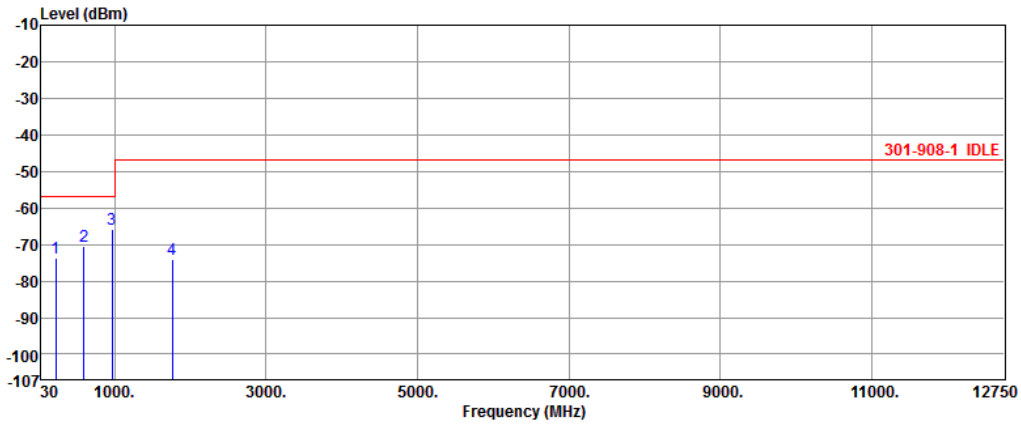
Test Channel (MHz)	1710.1	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	219.15	-73.29	-57.00	-16.29	-4.14	-69.15
2	599.39	-70.19	-57.00	-13.19	6.65	-76.84
3	928.22	-66.36	-57.00	-9.36	11.59	-77.95
4	3420.18	-70.65	-47.00	-23.65	5.72	-76.37

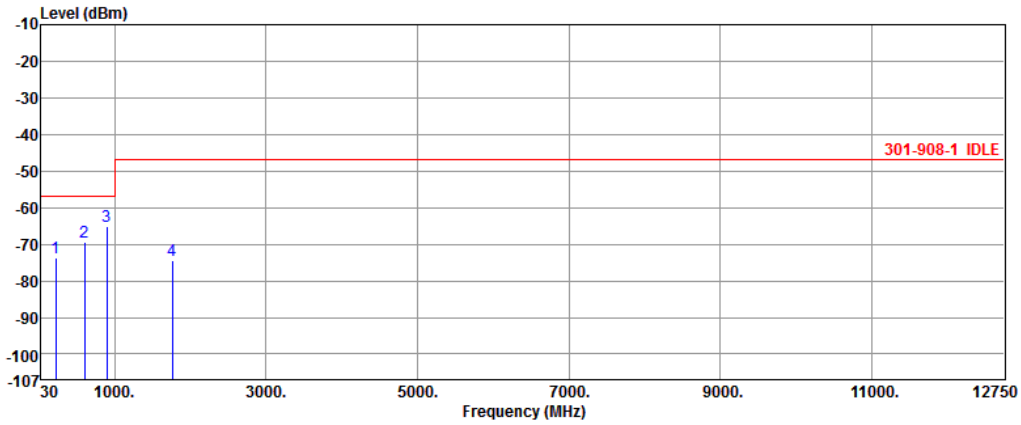
3.1.90 Radiated Emissions - Idle mode (LTE Band 8)

Test Channel (MHz)	880.1	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	220.12	-73.62	-57.00	-16.62	-3.64	-69.98
2	596.48	-70.45	-57.00	-13.45	6.56	-77.01
3	964.11	-65.79	-57.00	-8.79	11.87	-77.66
4	1760.20	-74.21	-47.00	-27.21	-0.48	-73.73

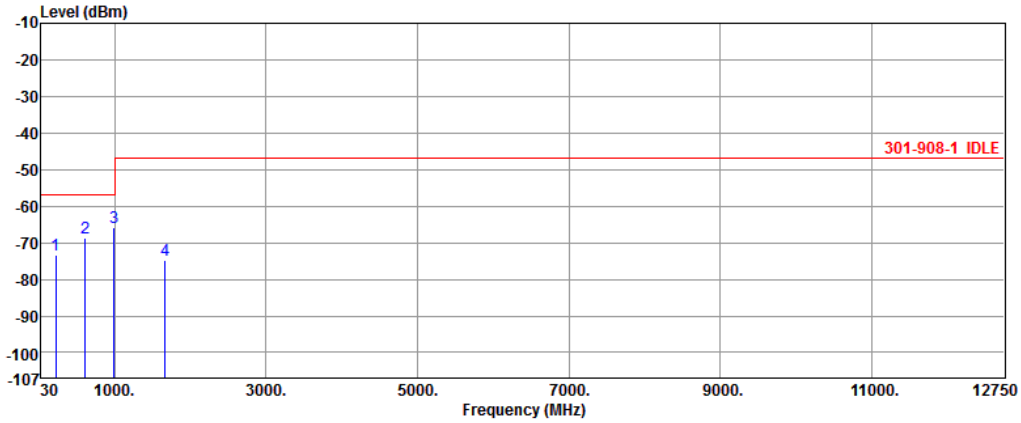
Test Channel (MHz)	880.1	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	216.24	-73.86	-57.00	-16.86	-4.03	-69.83
2	605.21	-69.35	-57.00	-12.35	7.07	-76.42
3	897.18	-65.23	-57.00	-8.23	10.93	-76.16
4	1760.20	-74.33	-47.00	-27.33	-0.53	-73.80

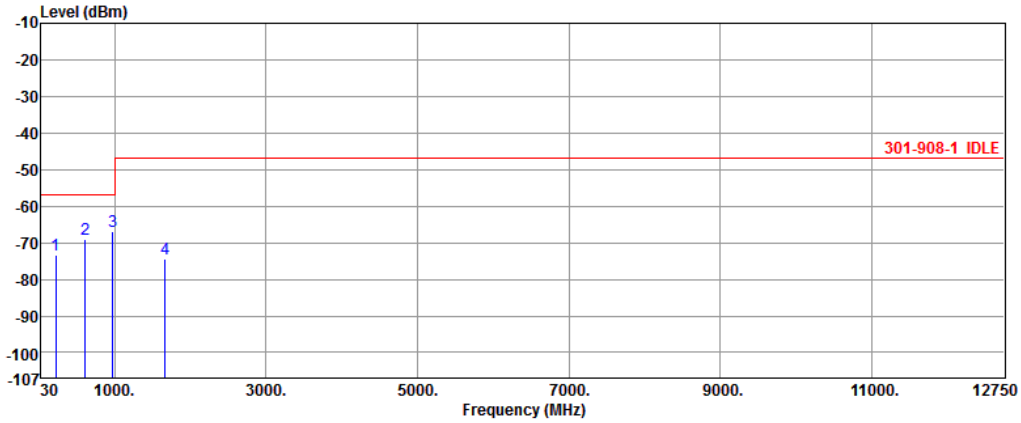
3.1.91 Radiated Emissions - Idle mode (LTE Band 20)

Test Channel (MHz)	832.1	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	220.54	-73.25	-57.00	-16.25	-3.73	-69.52
2	611.85	-68.64	-57.00	-11.64	6.95	-75.59
3	986.56	-65.85	-57.00	-8.85	11.98	-77.83
4	1664.21	-74.96	-47.00	-27.96	-1.06	-73.90

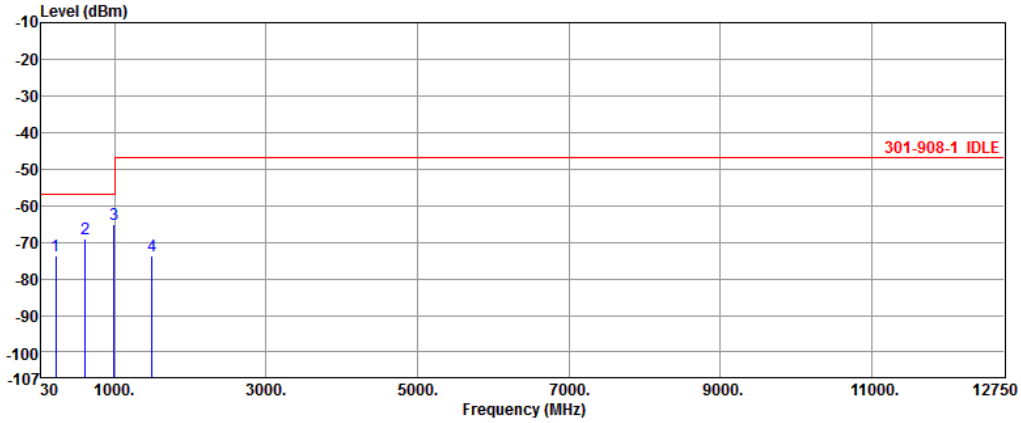
Test Channel (MHz)	832.1	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	218.54	-73.41	-57.00	-16.41	-4.12	-69.29
2	607.87	-69.11	-57.00	-12.11	7.16	-76.27
3	971.34	-66.95	-57.00	-9.95	11.78	-78.73
4	1664.21	-74.54	-47.00	-27.54	-1.08	-73.46

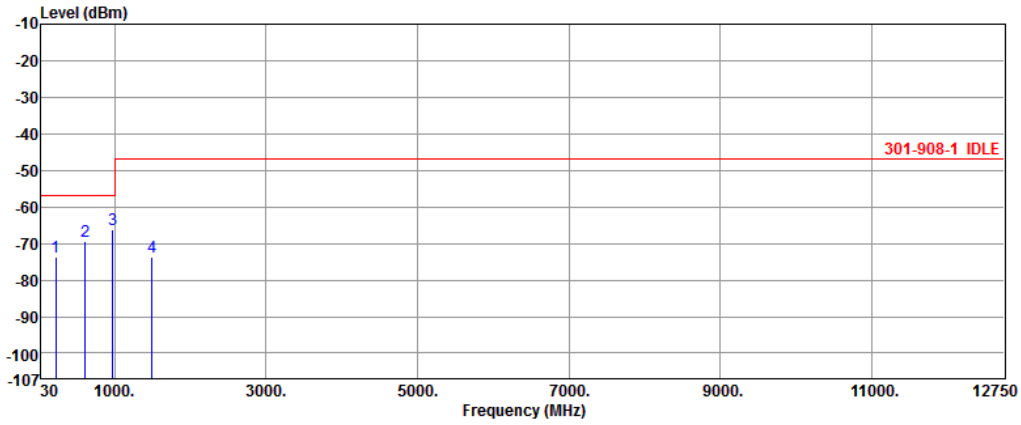
3.1.92 Radiated Emissions - Idle mode (LTE Band 28)

Test Channel (MHz)	747.9	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	220.12	-73.66	-57.00	-16.66	-3.64	-70.02
2	611.03	-68.98	-57.00	-11.98	6.94	-75.92
3	986.42	-65.22	-57.00	-8.22	11.98	-77.20
4	1495.85	-73.68	-47.00	-26.68	-0.51	-73.17

Test Channel (MHz)	747.9	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz

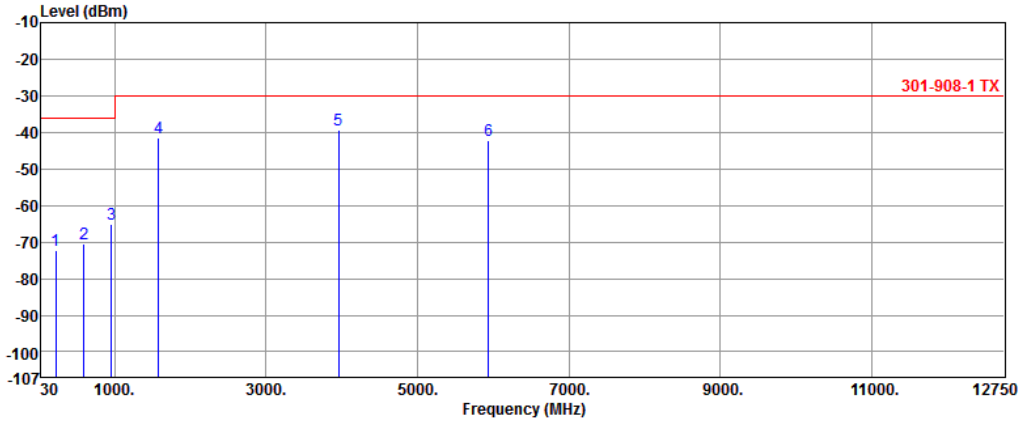


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	218.18	-73.89	-57.00	-16.89	-4.11	-69.78
2	607.15	-69.57	-57.00	-12.57	7.13	-76.70
3	971.87	-66.24	-57.00	-9.24	11.76	-78.00
4	1495.84	-73.61	-47.00	-26.61	-0.53	-73.08

NB-IoT_ Configuration 3: EPM6985-001 antenna _ Guard band

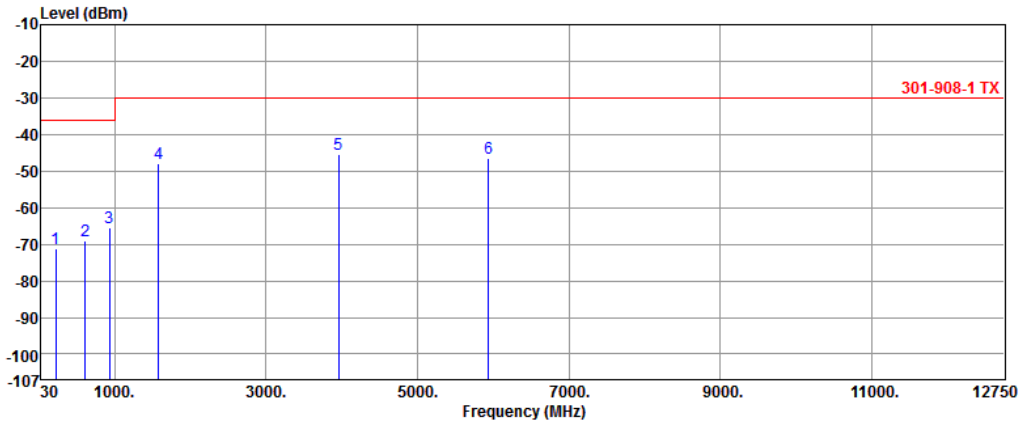
3.1.93 Radiated Emissions - traffic mode (LTE Band 1)

Test Channel (MHz)	1979.9	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	218.35	-72.45	-36.00	-36.45	-3.82	-68.63
2	594.14	-70.57	-36.00	-34.57	6.54	-77.11
3	956.54	-65.13	-36.00	-29.13	11.85	-76.98
4	1579.10	-41.54	-30.00	-11.54	-1.07	-40.47
5	3959.83	-39.46	-30.00	-9.46	8.42	-47.88
6	5939.82	-42.31	-30.00	-12.31	13.02	-55.33

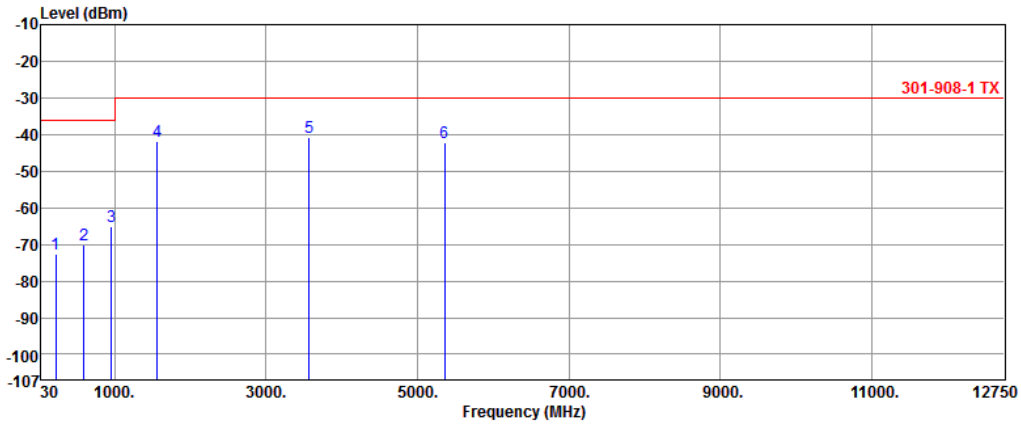
Test Channel (MHz)	1979.9	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	217.85	-71.22	-36.00	-35.22	-4.10	-67.12
2	609.84	-69.12	-36.00	-33.12	7.22	-76.34
3	930.45	-65.40	-36.00	-29.40	11.68	-77.08
4	1579.10	-47.97	-30.00	-17.97	-0.95	-47.02
5	3959.86	-45.31	-30.00	-15.31	8.11	-53.42
6	5939.49	-46.64	-30.00	-16.64	12.66	-59.30

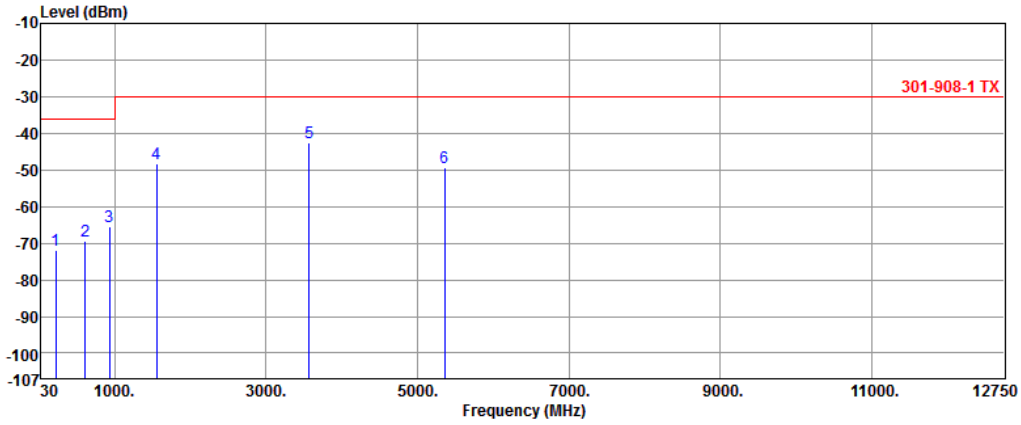
3.1.94 Radiated Emissions - traffic mode (LTE Band 3)

Test Channel (MHz)	1784.9	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	218.48	-72.54	-36.00	-36.54	-3.81	-68.73
2	594.35	-70.30	-36.00	-34.30	6.55	-76.85
3	956.54	-65.16	-36.00	-29.16	11.85	-77.01
4	1563.08	-41.76	-30.00	-11.76	-0.96	-40.80
5	3569.77	-40.90	-30.00	-10.90	7.10	-48.00
6	5354.65	-42.04	-30.00	-12.04	11.72	-53.76

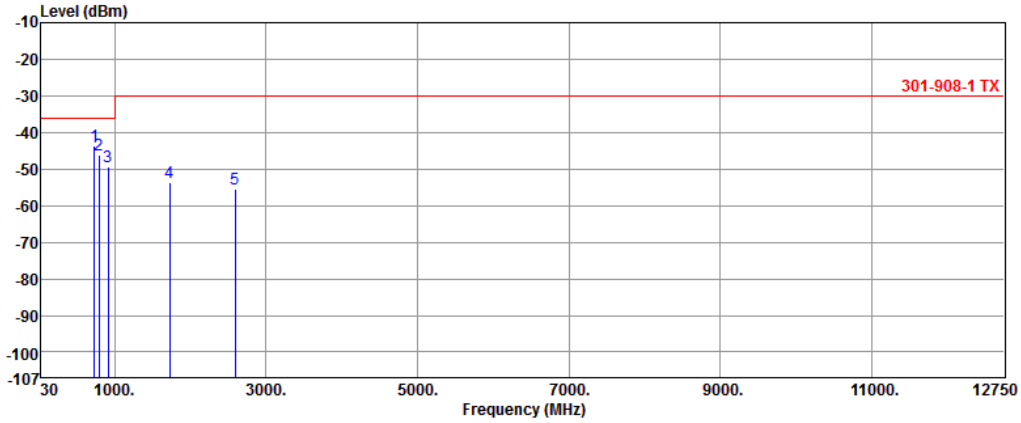
Test Channel (MHz)	1784.9	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	217.23	-71.86	-36.00	-35.86	-4.07	-67.79
2	609.12	-69.28	-36.00	-33.28	7.20	-76.48
3	930.41	-65.36	-36.00	-29.36	11.69	-77.05
4	1553.14	-48.24	-30.00	-18.24	-0.81	-47.43
5	3569.66	-42.71	-30.00	-12.71	6.83	-49.54
6	5354.82	-49.44	-30.00	-19.44	11.50	-60.94

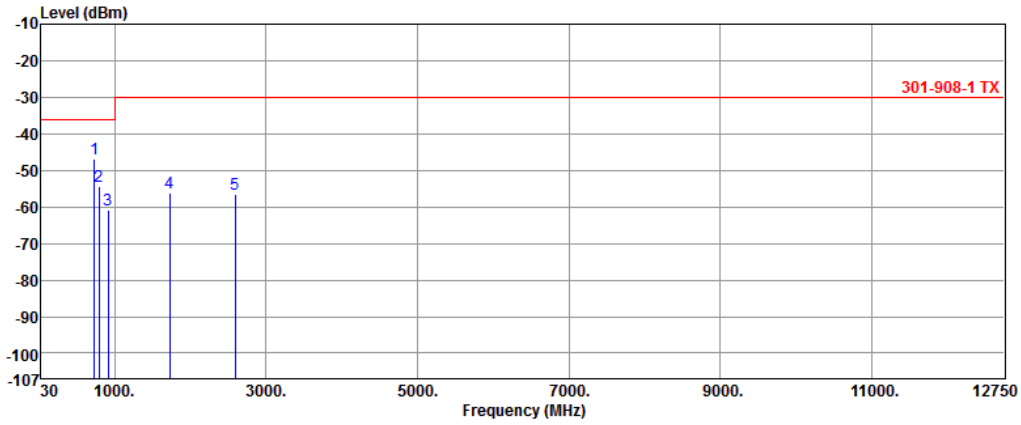
3.1.95 Radiated Emissions - traffic mode (LTE Band 20)

Test Channel (MHz)	861.885	Sub Carrier Spacing	3.75kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	728.40	-43.65	-36.00	-7.65	8.18	-51.83
2	789.51	-46.26	-36.00	-10.26	9.37	-55.63
3	910.76	-49.36	-36.00	-13.36	11.13	-60.49
4	1724.23	-53.64	-30.00	-23.64	-0.77	-52.87
5	2585.86	-55.37	-30.00	-25.37	3.89	-59.26

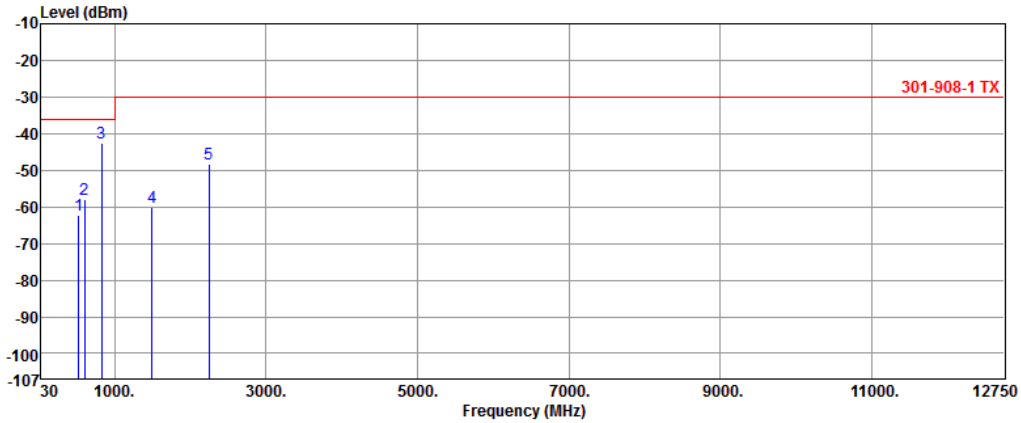
Test Channel (MHz)	861.885	Sub Carrier Spacing	3.75kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	728.40	-46.72	-36.00	-10.72	8.68	-55.40
2	789.51	-54.21	-36.00	-18.21	9.12	-63.33
3	910.76	-60.93	-36.00	-24.93	11.13	-72.06
4	1723.99	-56.32	-30.00	-26.32	-0.86	-55.46
5	2586.03	-56.56	-30.00	-26.56	3.71	-60.27

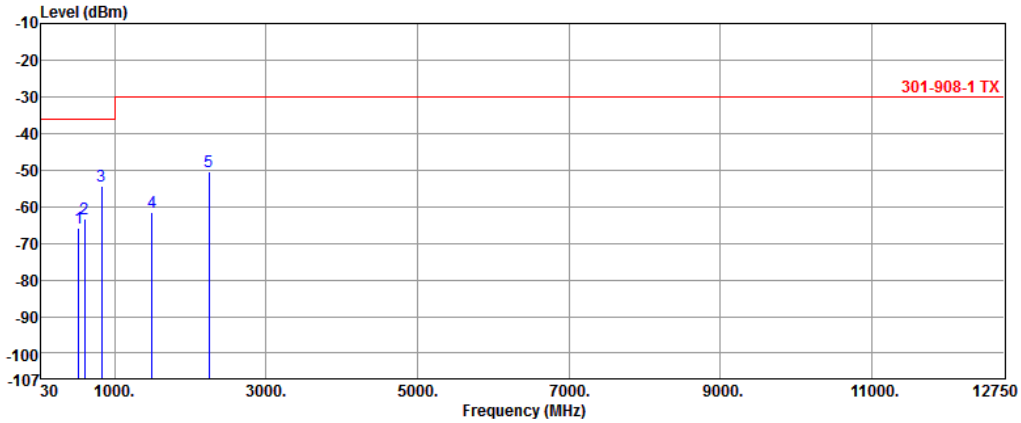
3.1.96 Radiated Emissions - traffic mode (LTE Band 28)

Test Channel (MHz)	747.9	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	522.76	-62.26	-36.00	-26.26	4.62	-66.88
2	598.42	-58.05	-36.00	-22.05	6.56	-64.61
3	822.49	-42.65	-36.00	-6.65	9.69	-52.34
4	1495.76	-59.96	-30.00	-29.96	-0.51	-59.45
5	2243.65	-48.29	-30.00	-18.29	3.77	-52.06

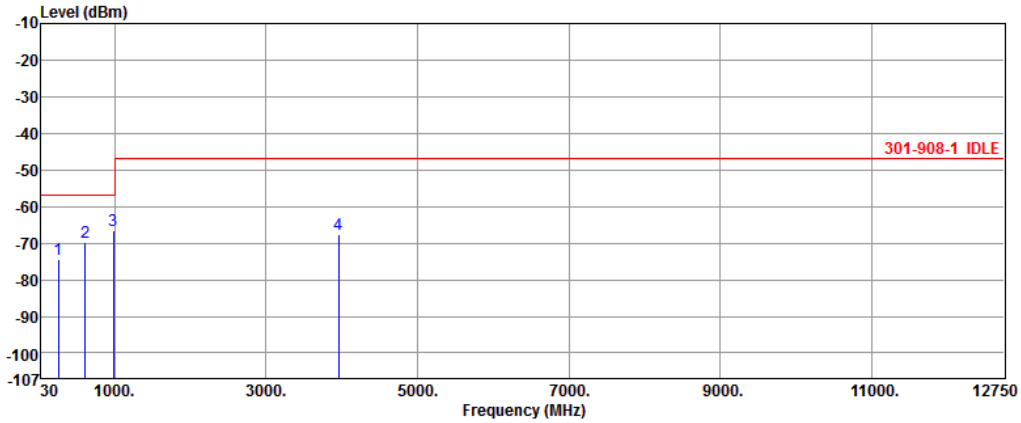
Test Channel (MHz)	747.9	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	523.73	-65.87	-36.00	-29.87	4.34	-70.21
2	597.45	-63.46	-36.00	-27.46	6.56	-70.02
3	822.49	-54.31	-36.00	-18.31	9.70	-64.01
4	1495.74	-61.49	-30.00	-31.49	-0.53	-60.96
5	2243.61	-50.45	-30.00	-20.45	3.77	-54.22

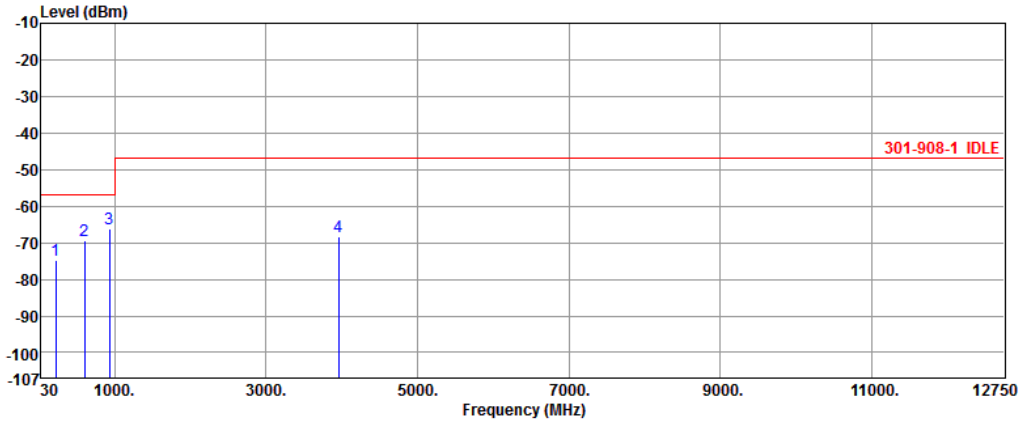
3.1.97 Radiated Emissions - Idle mode (LTE Band 1)

Test Channel (MHz)	1979.9	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	255.85	-74.42	-57.00	-17.42	-1.44	-72.98
2	610.32	-69.85	-57.00	-12.85	6.93	-76.78
3	982.21	-66.72	-57.00	-9.72	11.93	-78.65
4	3959.21	-67.74	-47.00	-20.74	8.42	-76.16

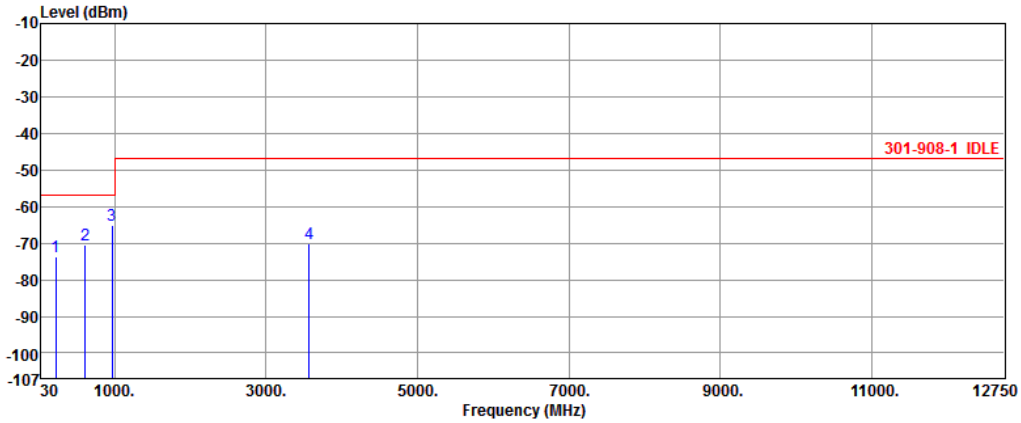
Test Channel (MHz)	1979.9	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	216.32	-74.85	-57.00	-17.85	-4.04	-70.81
2	596.65	-69.42	-57.00	-12.42	6.52	-75.94
3	930.21	-66.14	-57.00	-9.14	11.70	-77.84
4	3959.32	-68.31	-47.00	-21.31	8.11	-76.42

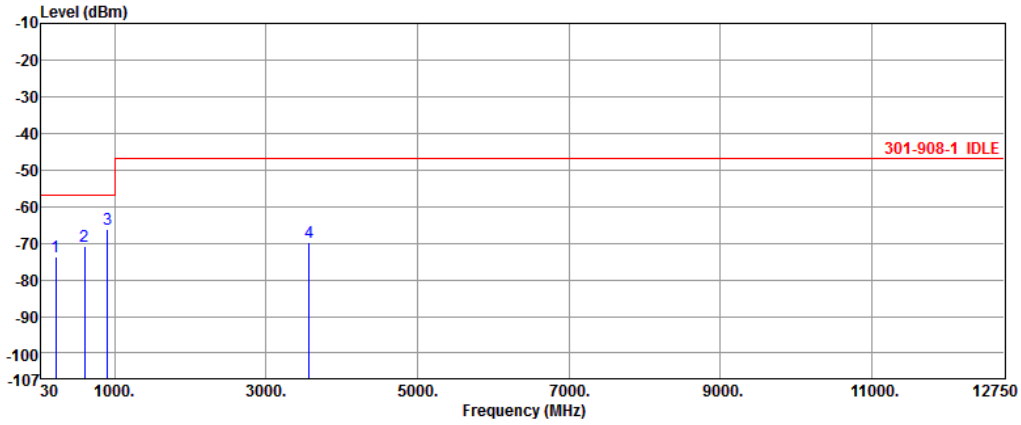
3.1.98 Radiated Emissions - Idle mode (LTE Band 3)

Test Channel (MHz)	1784.9	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	219.99	-73.68	-57.00	-16.68	-3.62	-70.06
2	606.21	-70.41	-57.00	-13.41	6.78	-77.19
3	966.14	-65.18	-57.00	-8.18	11.89	-77.07
4	3569.16	-69.99	-47.00	-22.99	7.10	-77.09

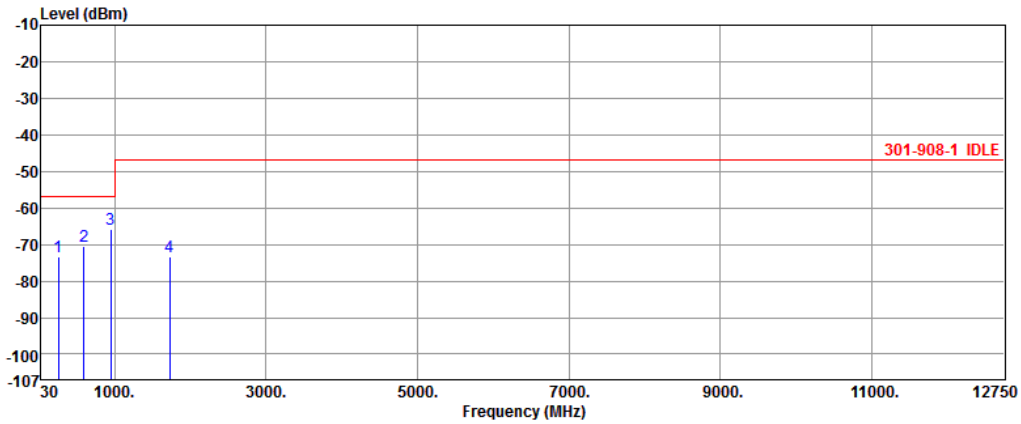
Test Channel (MHz)	1784.9	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	217.55	-73.87	-57.00	-16.87	-4.09	-69.78
2	603.00	-70.80	-57.00	-13.80	6.91	-77.71
3	907.42	-66.21	-57.00	-9.21	11.08	-77.29
4	3569.15	-69.76	-47.00	-22.76	6.83	-76.59

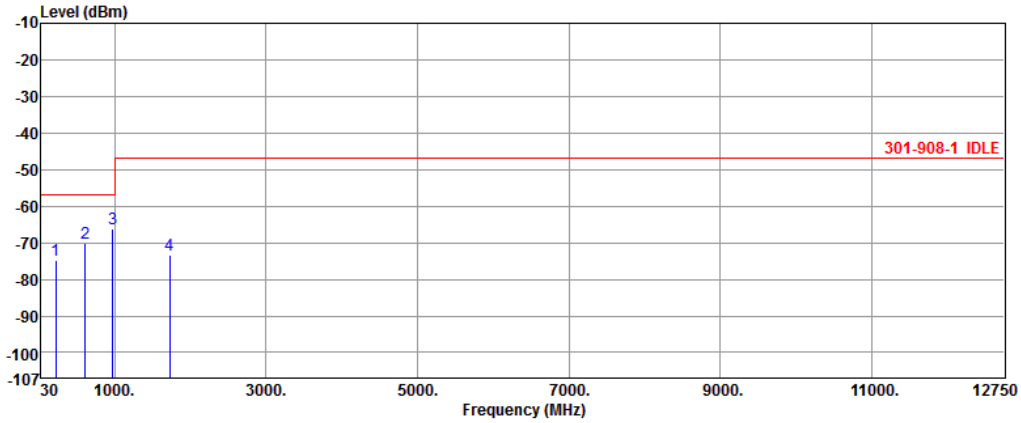
3.1.99 Radiated Emissions - Idle mode (LTE Band 20)

Test Channel (MHz)	861.885	Sub Carrier Spacing	3.75kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	256.53	-73.35	-57.00	-16.35	-1.45	-71.90
2	594.85	-70.37	-57.00	-13.37	6.56	-76.93
3	946.03	-65.75	-57.00	-8.75	12.05	-77.80
4	1723.96	-73.33	-47.00	-26.33	-0.77	-72.56

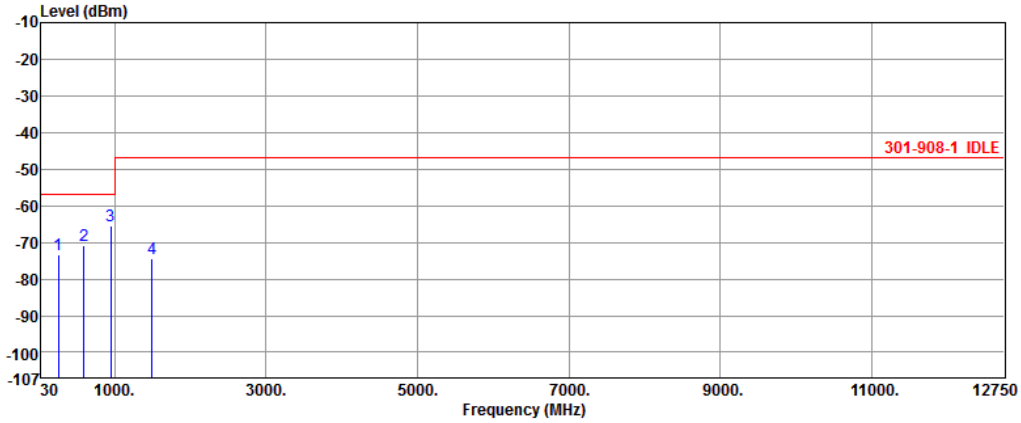
Test Channel (MHz)	861.885	Sub Carrier Spacing	3.75kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	217.24	-74.95	-57.00	-17.95	-4.07	-70.88
2	606.37	-69.96	-57.00	-12.96	7.11	-77.07
3	972.53	-66.10	-57.00	-9.10	11.74	-77.84
4	1723.74	-73.32	-47.00	-26.32	-0.86	-72.46

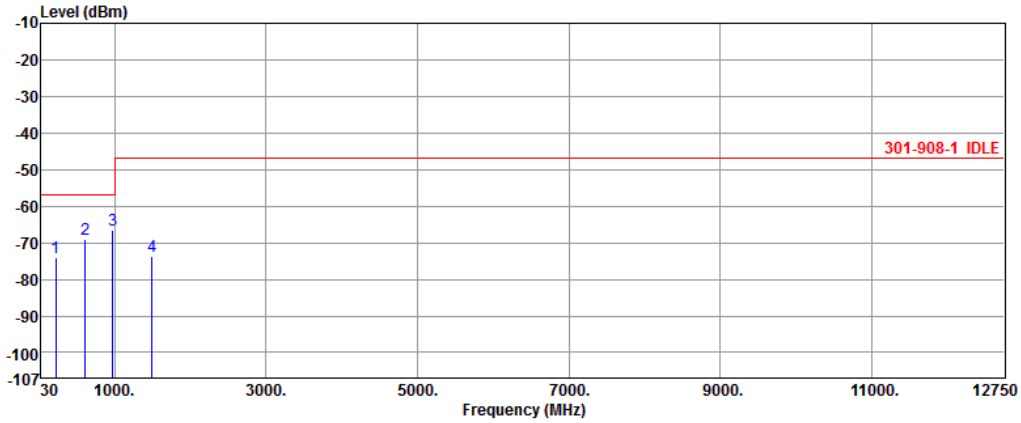
3.1.100 Radiated Emissions - Idle mode (LTE Band 28)

Test Channel (MHz)	747.9	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	256.95	-73.47	-57.00	-16.47	-1.46	-72.01
2	594.35	-70.86	-57.00	-13.86	6.55	-77.41
3	946.11	-65.65	-57.00	-8.65	12.05	-77.70
4	1495.65	-74.41	-47.00	-27.41	-0.51	-73.90

Test Channel (MHz)	747.9	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz

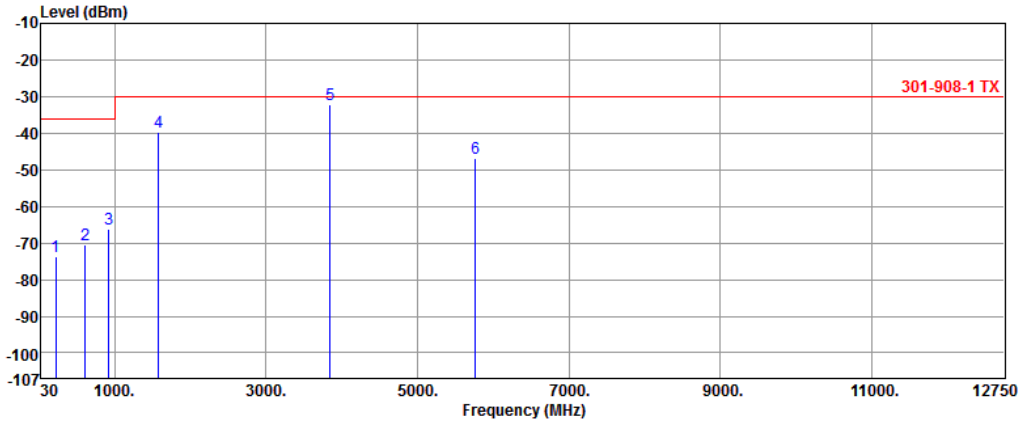


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	217.32	-74.21	-57.00	-17.21	-4.08	-70.13
2	606.85	-69.11	-57.00	-12.11	7.12	-76.23
3	972.54	-66.58	-57.00	-9.58	11.74	-78.32
4	1495.22	-73.75	-47.00	-26.75	-0.53	-73.22

NB-IoT_ Configuration 3: EPM6985-001 antenna _ In-band

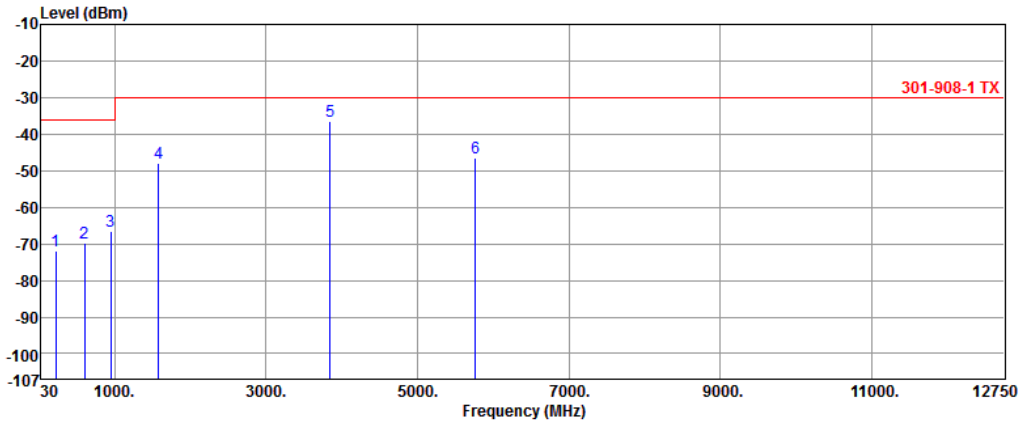
3.1.101 Radiated Emissions - traffic mode (LTE Band 1)

Test Channel (MHz)	1920.7	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	216.58	-73.56	-36.00	-37.56	-4.05	-69.51
2	606.32	-70.40	-36.00	-34.40	6.78	-77.18
3	923.40	-66.33	-36.00	-30.33	11.45	-77.78
4	1579.10	-39.77	-30.00	-9.77	-1.07	-38.70
5	3841.22	-32.20	-30.00	-2.20	8.24	-40.44
6	5761.79	-46.95	-30.00	-16.95	12.60	-59.55

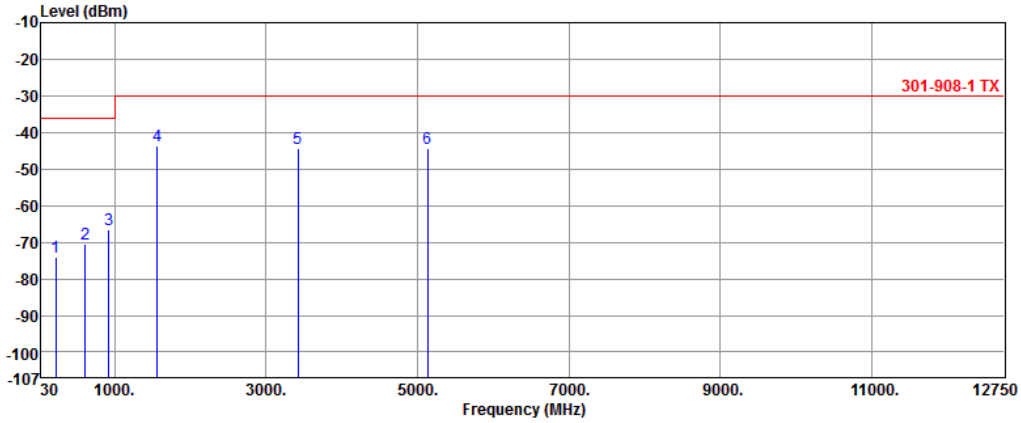
Test Channel (MHz)	1920.7	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	216.41	-71.85	-36.00	-35.85	-4.04	-67.81
2	604.13	-69.75	-36.00	-33.75	6.99	-76.74
3	944.30	-66.48	-36.00	-30.48	11.60	-78.08
4	1579.10	-47.95	-30.00	-17.95	-0.95	-47.00
5	3841.19	-36.39	-30.00	-6.39	8.10	-44.49
6	5761.84	-46.37	-30.00	-16.37	12.62	-58.99

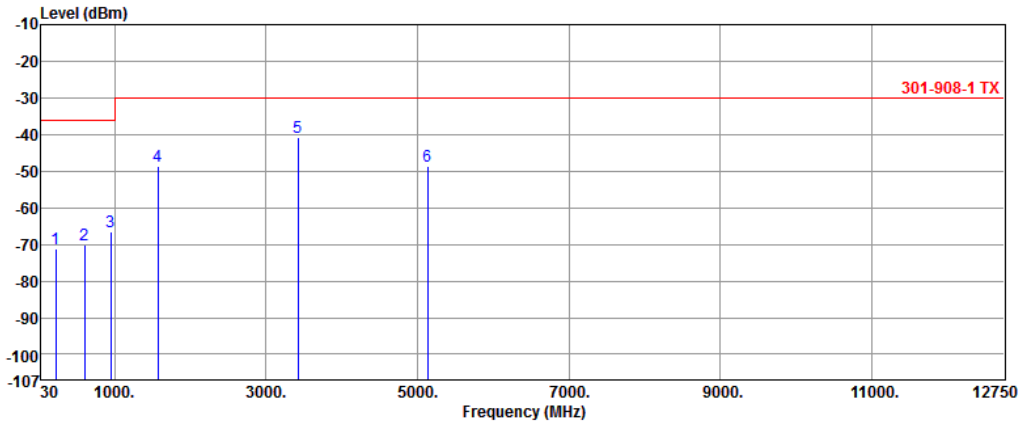
3.1.102 Radiated Emissions - traffic mode (LTE Band 3)

Test Channel (MHz)	1710.6	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	216.21	-73.99	-36.00	-37.99	-4.10	-69.89
2	606.10	-70.43	-36.00	-34.43	6.77	-77.20
3	923.20	-66.60	-36.00	-30.60	11.44	-78.04
4	1564.50	-43.71	-30.00	-13.71	-0.97	-42.74
5	3421.16	-44.31	-30.00	-14.31	6.09	-50.40
6	5131.51	-44.52	-30.00	-14.52	12.00	-56.52

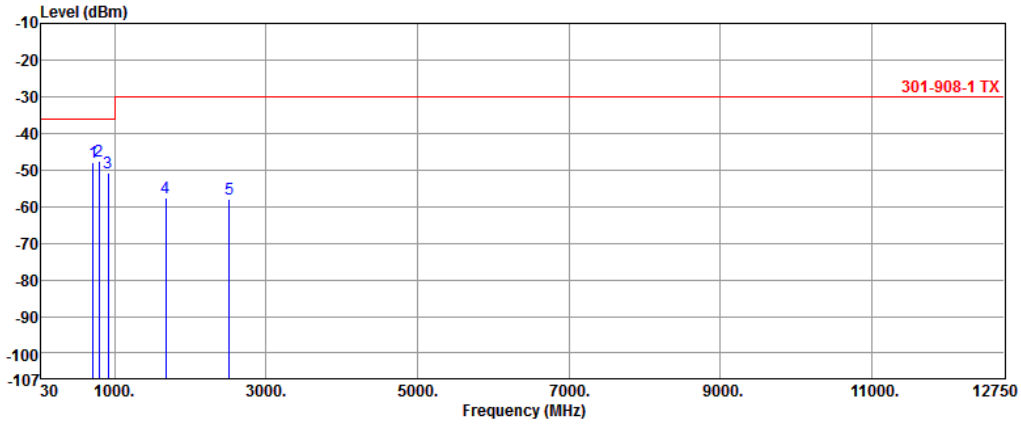
Test Channel (MHz)	1710.6	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	216.54	-71.10	-36.00	-35.10	-4.05	-67.05
2	604.37	-69.99	-36.00	-33.99	7.01	-77.00
3	944.21	-66.41	-36.00	-30.41	11.60	-78.01
4	1565.21	-48.68	-30.00	-18.68	-0.88	-47.80
5	3421.07	-40.96	-30.00	-10.96	5.73	-46.69
6	5131.57	-48.80	-30.00	-18.80	11.83	-60.63

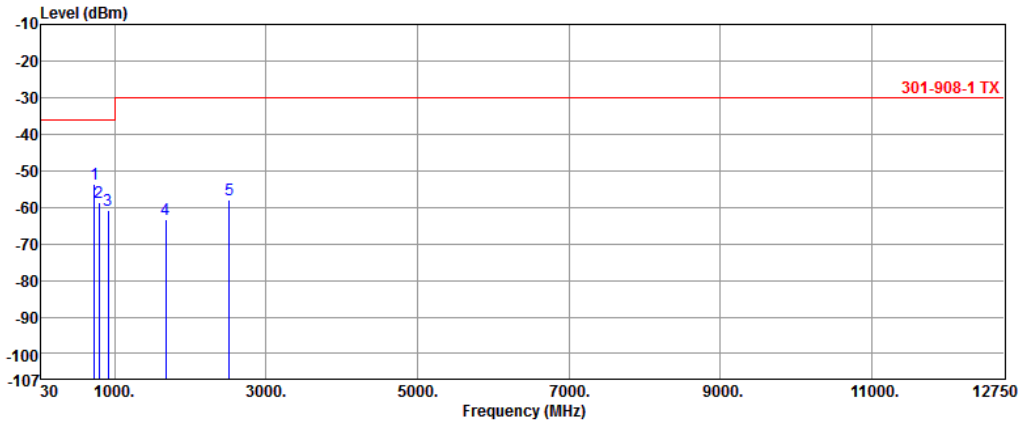
3.1.103 Radiated Emissions - traffic mode (LTE Band 20)

Test Channel (MHz)	837.99	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	716.76	-48.01	-36.00	-12.01	7.70	-55.71
2	789.51	-47.66	-36.00	-11.66	9.37	-57.03
3	910.76	-50.83	-36.00	-14.83	11.13	-61.96
4	1675.69	-57.67	-30.00	-27.67	-1.02	-56.65
5	2513.72	-57.84	-30.00	-27.84	3.44	-61.28

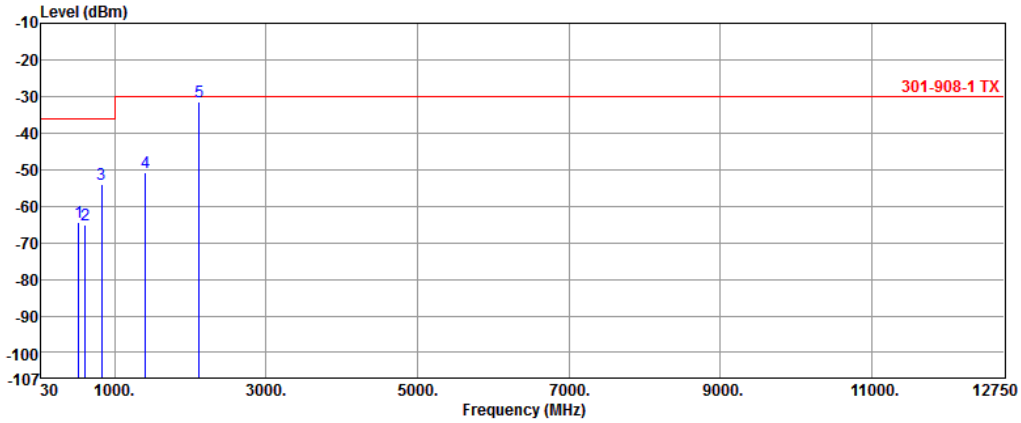
Test Channel (MHz)	837.99	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	728.40	-53.56	-36.00	-17.56	8.68	-62.24
2	789.51	-58.84	-36.00	-22.84	9.12	-67.96
3	910.76	-60.94	-36.00	-24.94	11.13	-72.07
4	1675.86	-63.28	-30.00	-33.28	-1.08	-62.20
5	2513.62	-58.03	-30.00	-28.03	3.34	-61.37

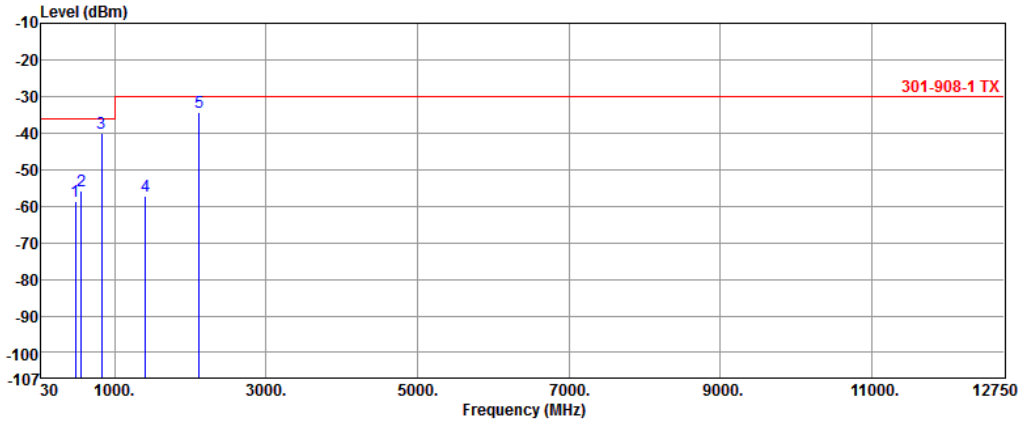
3.1.104 Radiated Emissions - traffic mode (LTE Band 28)

Test Channel (MHz)	703.6	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	522.76	-64.48	-36.00	-28.48	4.37	-68.85
2	607.15	-65.30	-36.00	-29.30	7.13	-72.43
3	822.49	-54.06	-36.00	-18.06	9.70	-63.76
4	1407.10	-50.94	-30.00	-20.94	-0.71	-50.23
5	2110.78	-31.33	-30.00	-1.33	2.63	-33.96

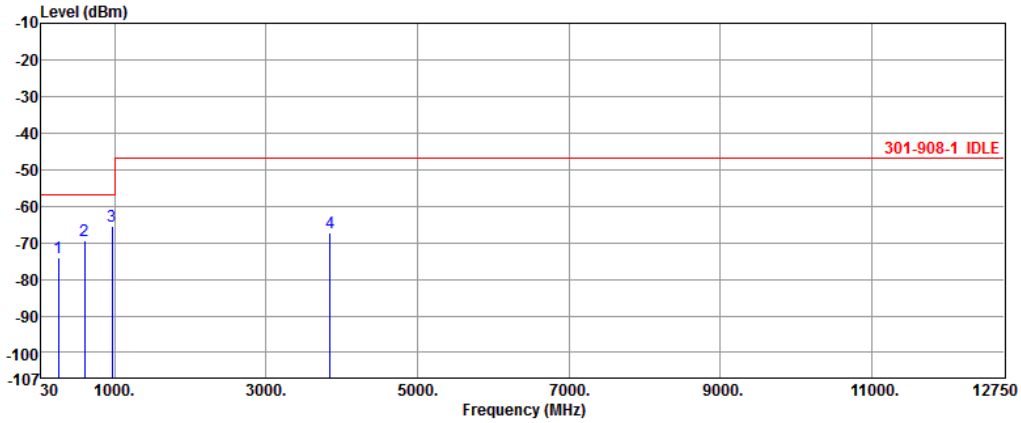
Test Channel (MHz)	703.6	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	479.11	-58.65	-36.00	-22.65	3.35	-62.00
2	553.80	-55.77	-36.00	-19.77	4.38	-60.15
3	822.49	-40.21	-36.00	-4.21	9.69	-49.90
4	1407.31	-57.15	-30.00	-27.15	-0.73	-56.42
5	2110.75	-34.41	-30.00	-4.41	2.69	-37.10

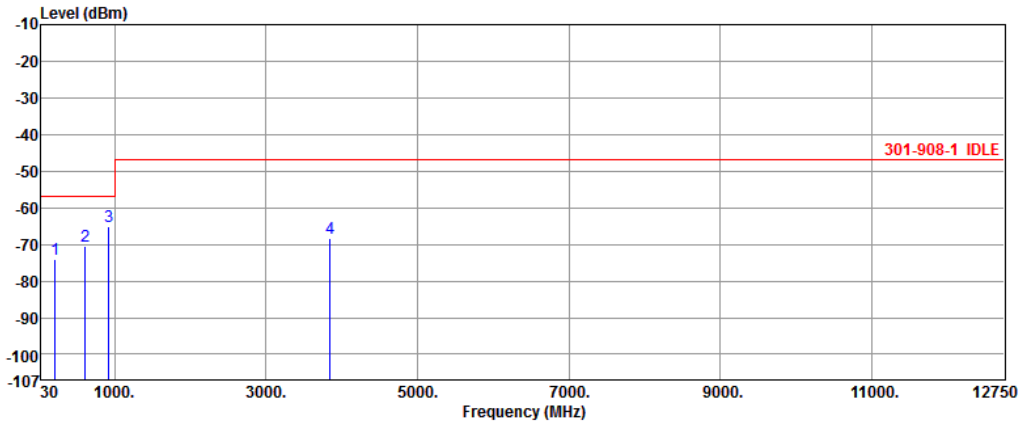
3.1.105 Radiated Emissions - Idle mode (LTE Band 1)

Test Channel (MHz)	1920.7	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	256.32	-74.12	-57.00	-17.12	-1.45	-72.67
2	603.99	-69.36	-57.00	-12.36	6.69	-76.05
3	966.32	-65.47	-57.00	-8.47	11.89	-77.36
4	3841.12	-67.35	-47.00	-20.35	8.24	-75.59

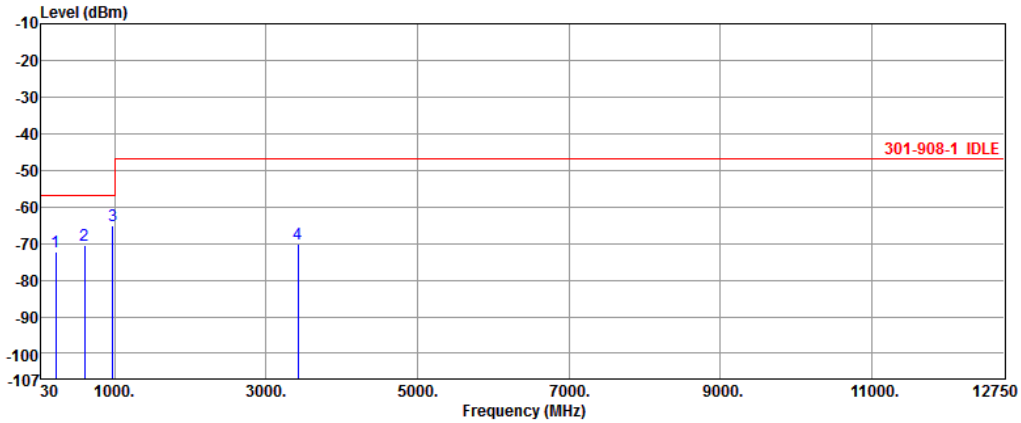
Test Channel (MHz)	1920.7	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	216.13	-73.98	-57.00	-16.98	-4.03	-69.95
2	610.12	-70.42	-57.00	-13.42	7.23	-77.65
3	921.84	-65.25	-57.00	-8.25	11.22	-76.47
4	3841.41	-68.41	-47.00	-21.41	8.10	-76.51

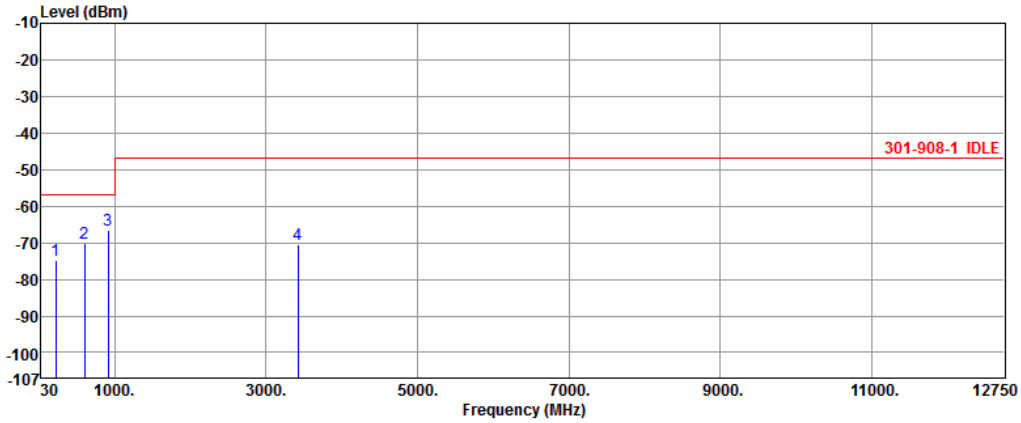
3.1.106 Radiated Emissions - Idle mode (LTE Band 3)

Test Channel (MHz)	1710.6	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	218.25	-72.37	-57.00	-15.37	-3.85	-68.52
2	597.24	-70.51	-57.00	-13.51	6.56	-77.07
3	972.01	-65.17	-57.00	-8.17	11.80	-76.97
4	3421.74	-70.17	-47.00	-23.17	6.10	-76.27

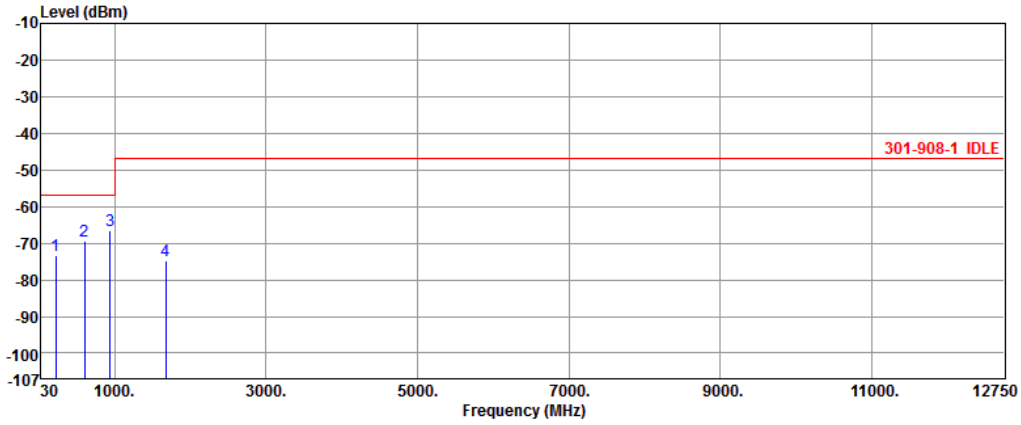
Test Channel (MHz)	1710.6	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	216.45	-74.78	-57.00	-17.78	-4.04	-70.74
2	602.55	-70.12	-57.00	-13.12	6.87	-76.99
3	915.15	-66.69	-57.00	-9.69	11.28	-77.97
4	3421.42	-70.53	-47.00	-23.53	5.73	-76.26

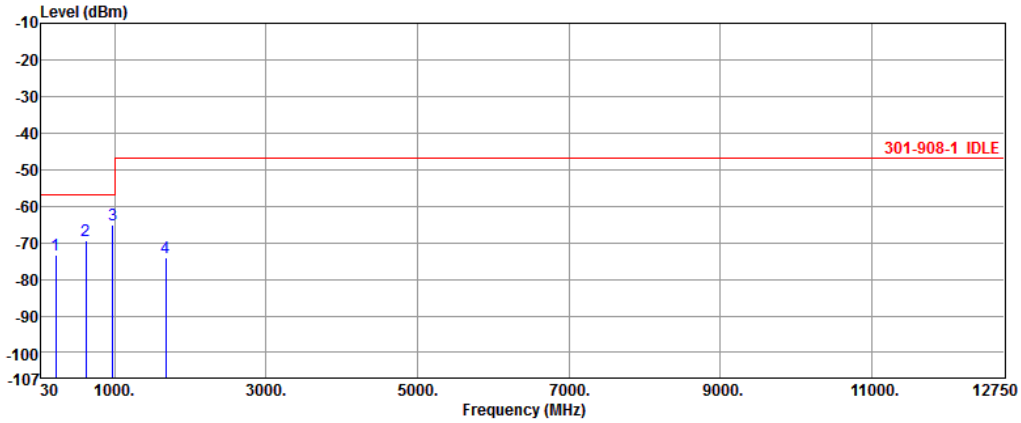
3.1.107 Radiated Emissions - Idle mode (LTE Band 20)

Test Channel (MHz)	837.99	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	219.96	-73.21	-57.00	-16.21	-3.63	-69.58
2	602.99	-69.32	-57.00	-12.32	6.66	-75.98
3	941.99	-66.52	-57.00	-9.52	12.04	-78.56
4	1676.32	-74.96	-47.00	-27.96	-1.02	-73.94

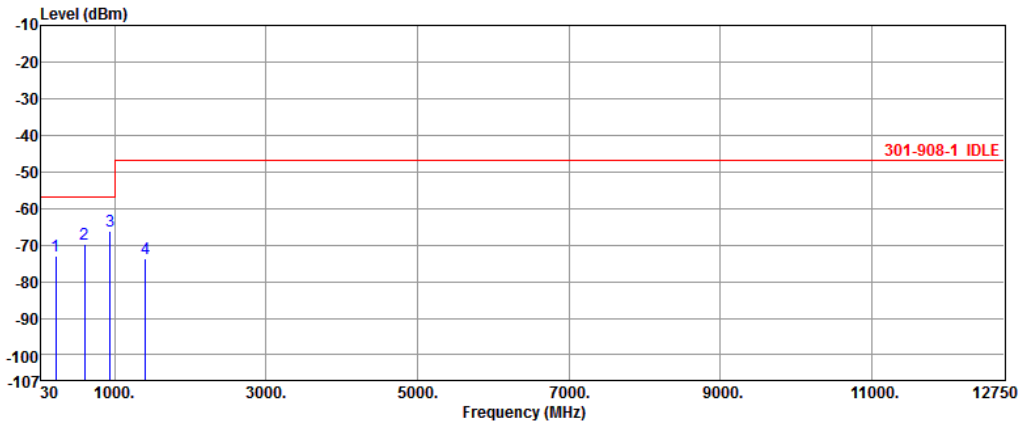
Test Channel (MHz)	837.99	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	217.85	-73.41	-57.00	-16.41	-4.10	-69.31
2	615.32	-69.35	-57.00	-12.35	7.21	-76.56
3	975.15	-65.11	-57.00	-8.11	11.69	-76.80
4	1676.24	-74.16	-47.00	-27.16	-1.08	-73.08

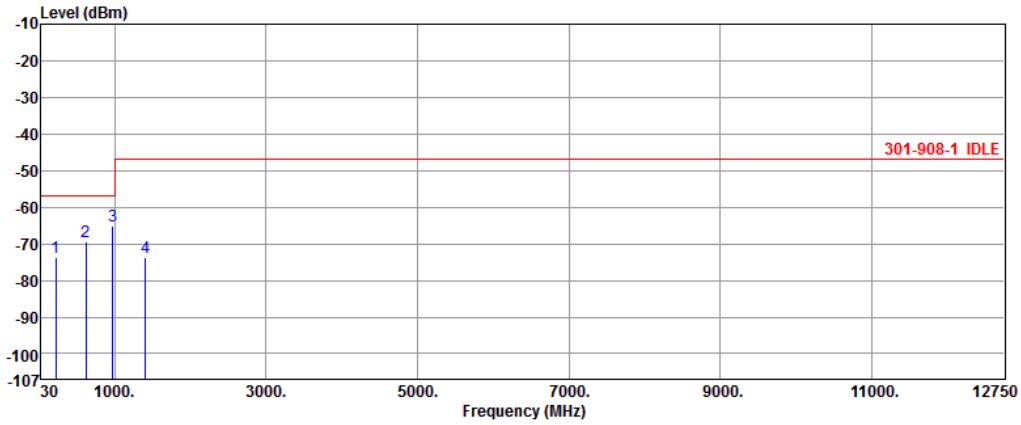
3.1.108 Radiated Emissions - Idle mode (LTE Band 28)

Test Channel (MHz)	703.6	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	219.89	-73.01	-57.00	-16.01	-3.63	-69.38
2	602.57	-69.66	-57.00	-12.66	6.64	-76.30
3	941.66	-66.13	-57.00	-9.13	12.04	-78.17
4	1407.15	-73.69	-47.00	-26.69	-0.71	-72.98

Test Channel (MHz)	703.6	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz

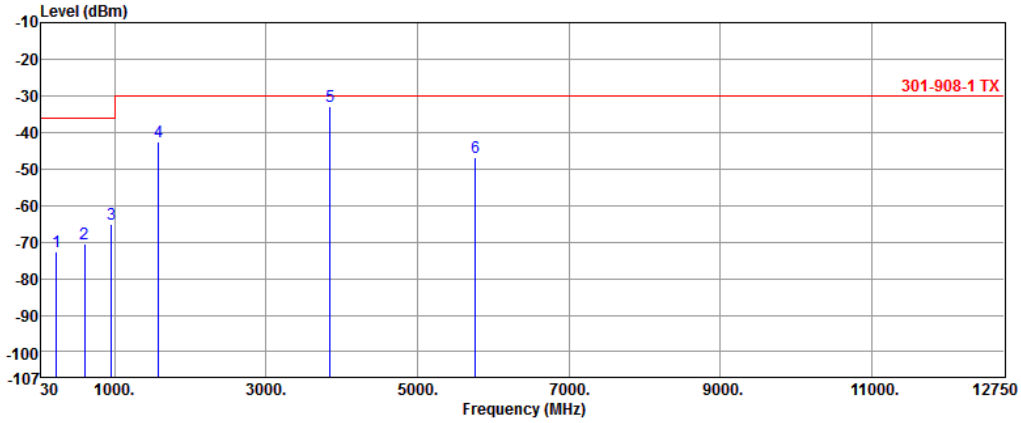


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	217.98	-73.56	-57.00	-16.56	-4.11	-69.45
2	615.01	-69.40	-57.00	-12.40	7.23	-76.63
3	975.51	-65.10	-57.00	-8.10	11.70	-76.80
4	1407.32	-73.87	-47.00	-26.87	-0.73	-73.14

NB-IoT_ Configuration 3: EPM6985-001 antenna _ Stand alone

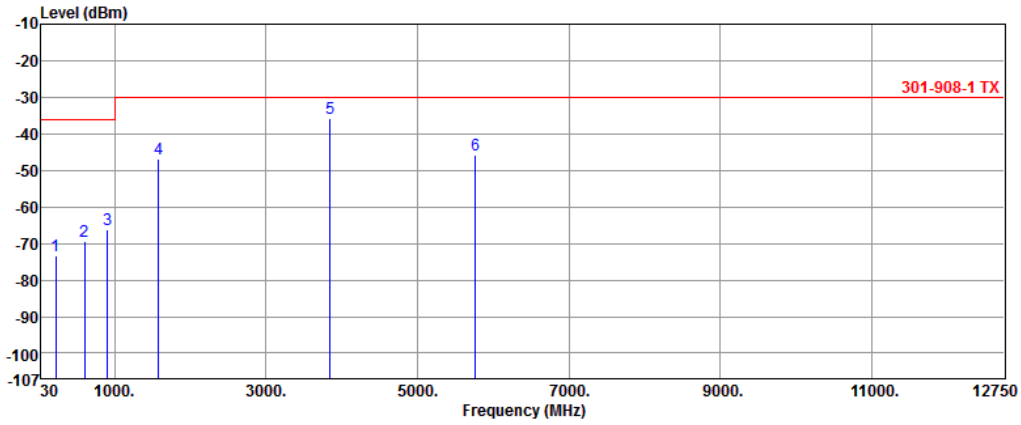
3.1.109 Radiated Emissions - traffic mode (LTE Band 1)

Test Channel (MHz)	1920.1	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	231.21	-72.47	-36.00	-36.47	-3.10	-69.37
2	599.21	-70.47	-36.00	-34.47	6.55	-77.02
3	956.21	-65.14	-36.00	-29.14	11.86	-77.00
4	1578.72	-42.47	-30.00	-12.47	-1.06	-41.41
5	3840.03	-32.99	-30.00	-2.99	8.24	-41.23
6	5760.16	-46.98	-30.00	-16.98	12.59	-59.57

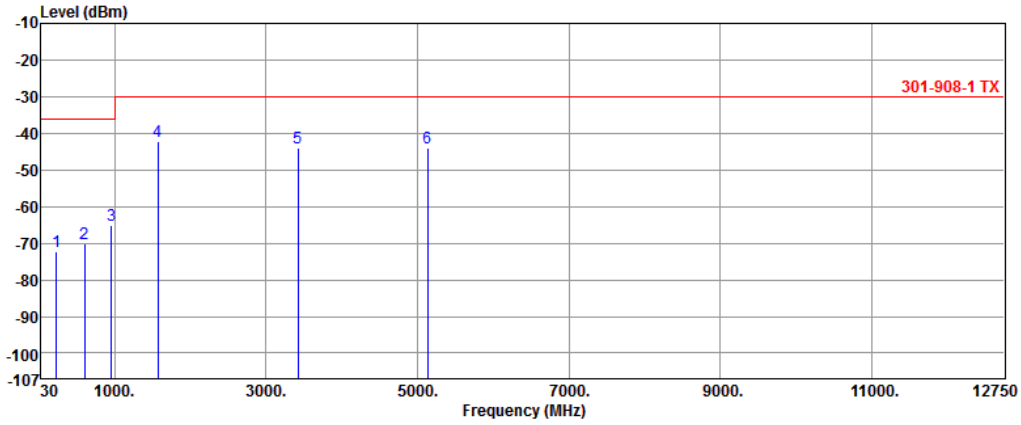
Test Channel (MHz)	1920.1	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	218.00	-73.47	-36.00	-37.47	-4.11	-69.36
2	604.85	-69.35	-36.00	-33.35	7.05	-76.40
3	905.54	-66.25	-36.00	-30.25	11.08	-77.33
4	1579.64	-46.87	-30.00	-16.87	-0.96	-45.91
5	3839.93	-35.70	-30.00	-5.70	8.10	-43.80
6	5760.06	-45.94	-30.00	-15.94	12.61	-58.55

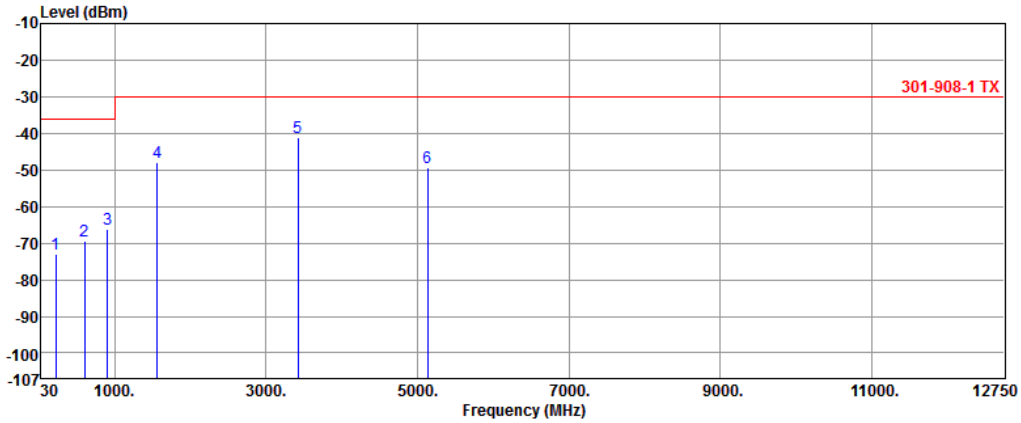
3.1.110 Radiated Emissions - traffic mode (LTE Band 3)

Test Channel (MHz)	1710.1	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	231.97	-72.10	-36.00	-36.10	-2.92	-69.18
2	599.96	-70.31	-36.00	-34.31	6.55	-76.86
3	956.56	-65.10	-36.00	-29.10	11.85	-76.95
4	1565.21	-42.16	-30.00	-12.16	-0.97	-41.19
5	3420.04	-44.03	-30.00	-14.03	6.08	-50.11
6	5130.22	-44.02	-30.00	-14.02	12.00	-56.02

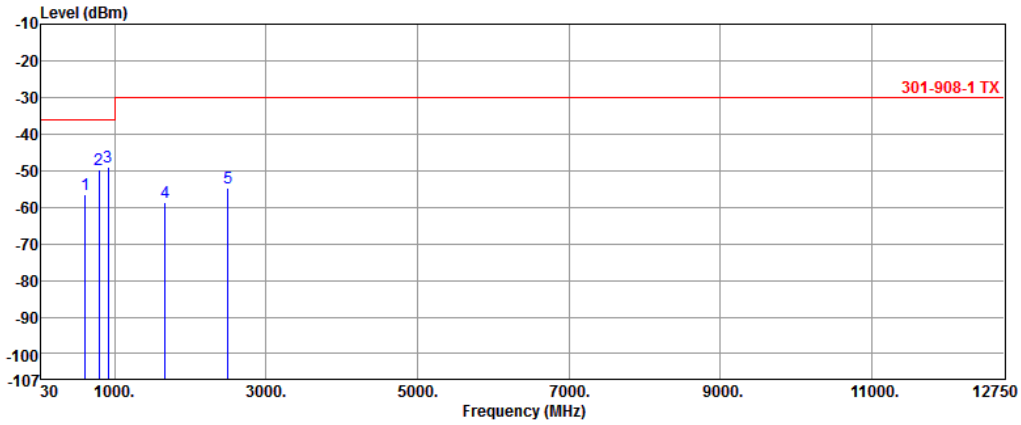
Test Channel (MHz)	1710.1	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	218.85	-73.03	-36.00	-37.03	-4.13	-68.90
2	604.85	-69.32	-36.00	-33.32	7.05	-76.37
3	905.85	-66.25	-36.00	-30.25	11.08	-77.33
4	1564.50	-47.86	-30.00	-17.86	-0.88	-46.98
5	3420.02	-41.22	-30.00	-11.22	5.72	-46.94
6	5129.98	-49.26	-30.00	-19.26	11.84	-61.10

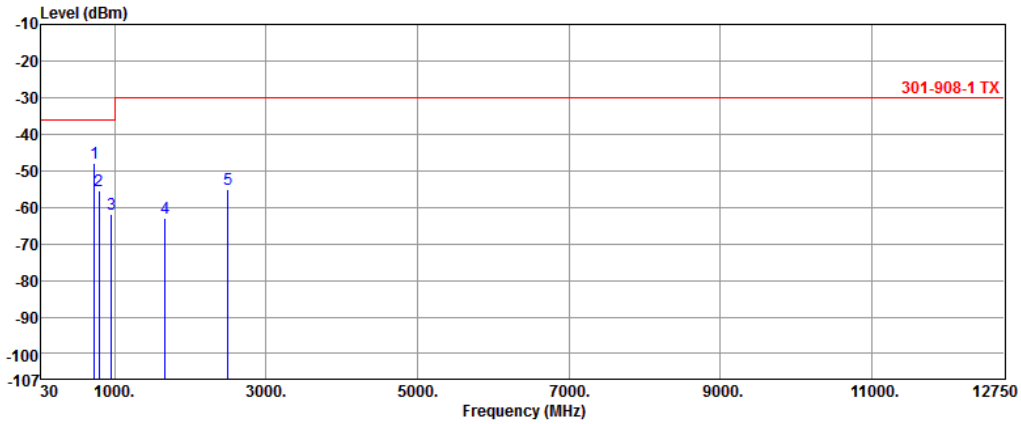
3.1.111 Radiated Emissions - traffic mode (LTE Band 20)

Test Channel (MHz)	832.1	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	607.15	-56.65	-36.00	-20.65	6.81	-63.46
2	789.51	-49.76	-36.00	-13.76	9.37	-59.13
3	910.76	-49.03	-36.00	-13.03	11.13	-60.16
4	1664.15	-58.64	-30.00	-28.64	-1.06	-57.58
5	2496.22	-54.57	-30.00	-24.57	3.35	-57.92

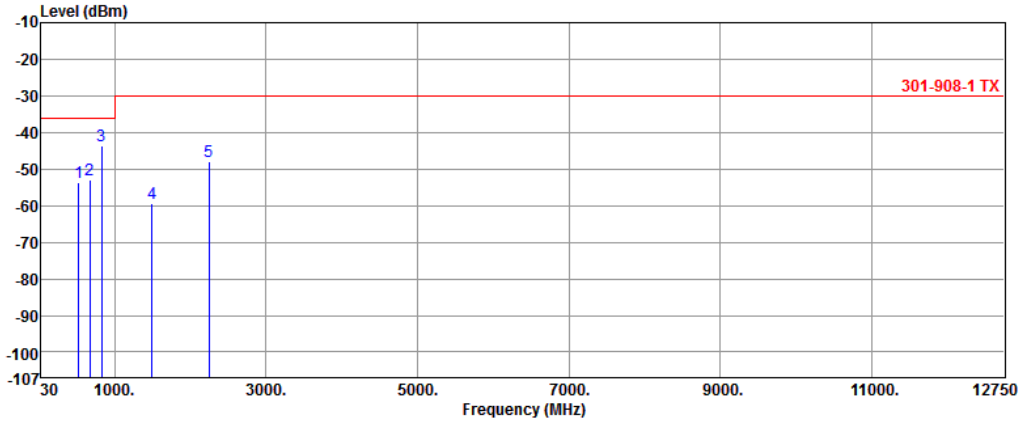
Test Channel (MHz)	832.1	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	728.40	-48.03	-36.00	-12.03	8.68	-56.71
2	789.51	-55.44	-36.00	-19.44	9.12	-64.56
3	953.44	-62.05	-36.00	-26.05	11.58	-73.63
4	1664.27	-62.89	-30.00	-32.89	-1.08	-61.81
5	2496.28	-55.08	-30.00	-25.08	3.26	-58.34

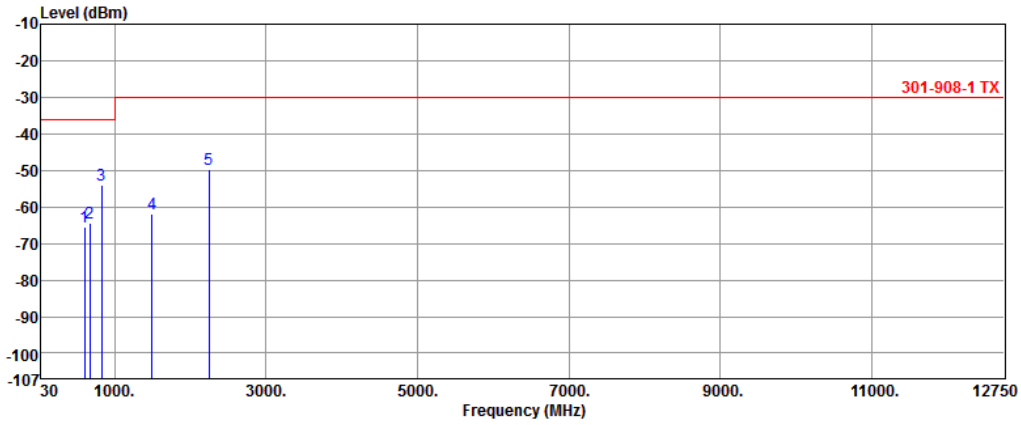
3.1.112 Radiated Emissions - traffic mode (LTE Band 28)

Test Channel (MHz)	747.9	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	522.76	-53.50	-36.00	-17.50	4.62	-58.12
2	673.11	-52.99	-36.00	-16.99	7.34	-60.33
3	822.49	-43.60	-36.00	-7.60	9.69	-53.29
4	1495.84	-59.31	-30.00	-29.31	-0.51	-58.80
5	2243.32	-48.02	-30.00	-18.02	3.77	-51.79

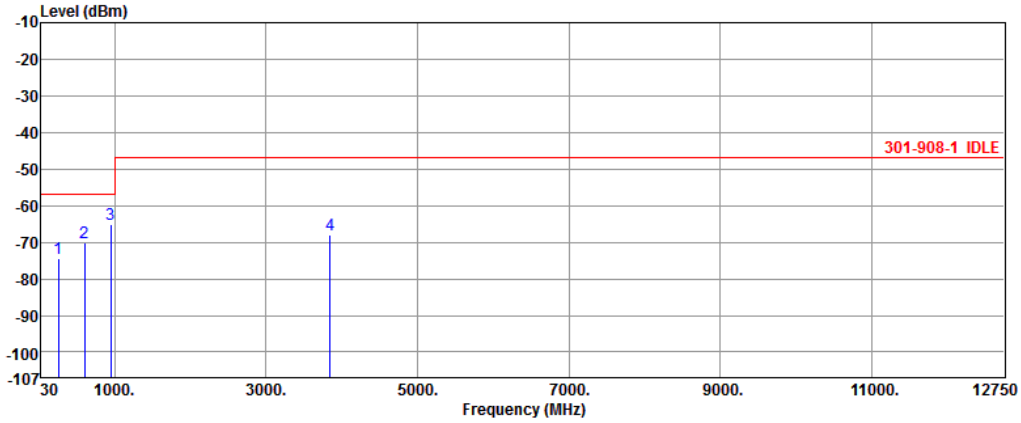
Test Channel (MHz)	747.9	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	597.45	-65.36	-36.00	-29.36	6.56	-71.92
2	673.11	-64.57	-36.00	-28.57	6.85	-71.42
3	822.49	-53.96	-36.00	-17.96	9.70	-63.66
4	1495.73	-61.89	-30.00	-31.89	-0.53	-61.36
5	2243.71	-49.63	-30.00	-19.63	3.77	-53.40

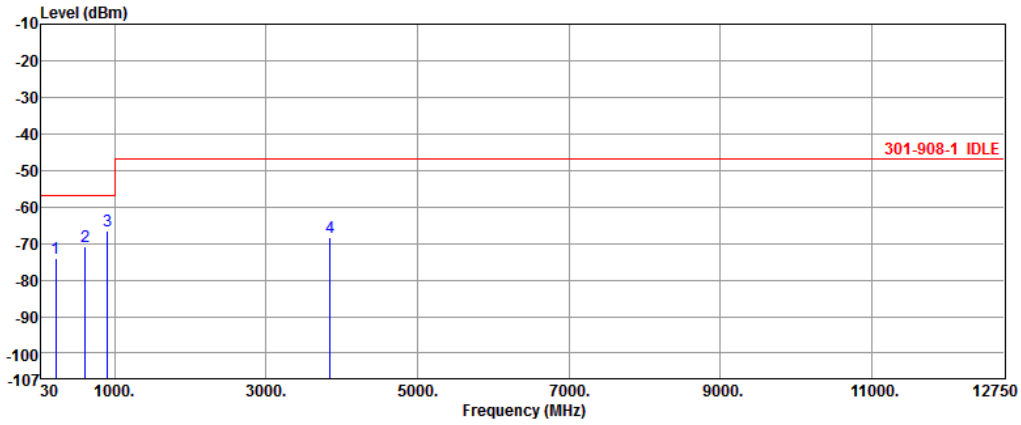
3.1.113 Radiated Emissions - Idle mode (LTE Band 1)

Test Channel (MHz)	1920.1	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	254.51	-74.27	-57.00	-17.27	-1.44	-72.83
2	596.98	-70.13	-57.00	-13.13	6.56	-76.69
3	943.32	-65.21	-57.00	-8.21	12.04	-77.25
4	3840.32	-68.13	-47.00	-21.13	8.24	-76.37

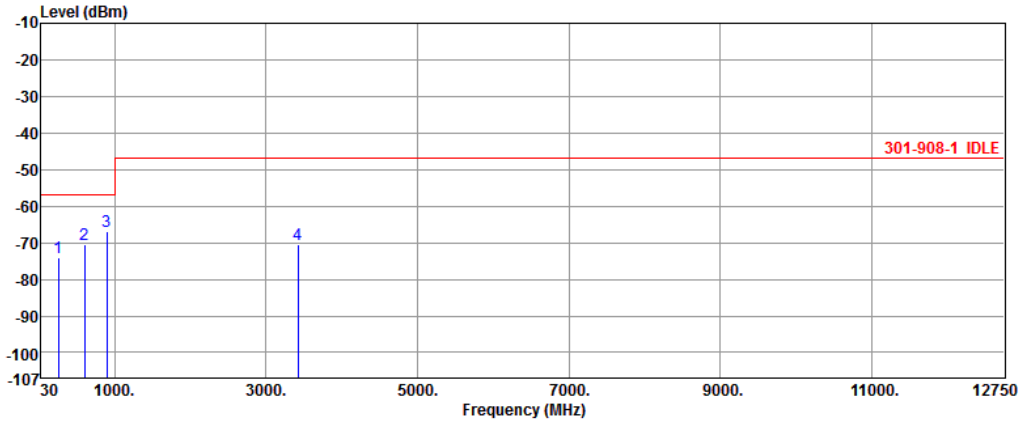
Test Channel (MHz)	1920.1	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	220.10	-74.13	-57.00	-17.13	-4.19	-69.94
2	606.32	-70.74	-57.00	-13.74	7.11	-77.85
3	900.59	-66.48	-57.00	-9.48	11.10	-77.58
4	3840.99	-68.35	-47.00	-21.35	8.10	-76.45

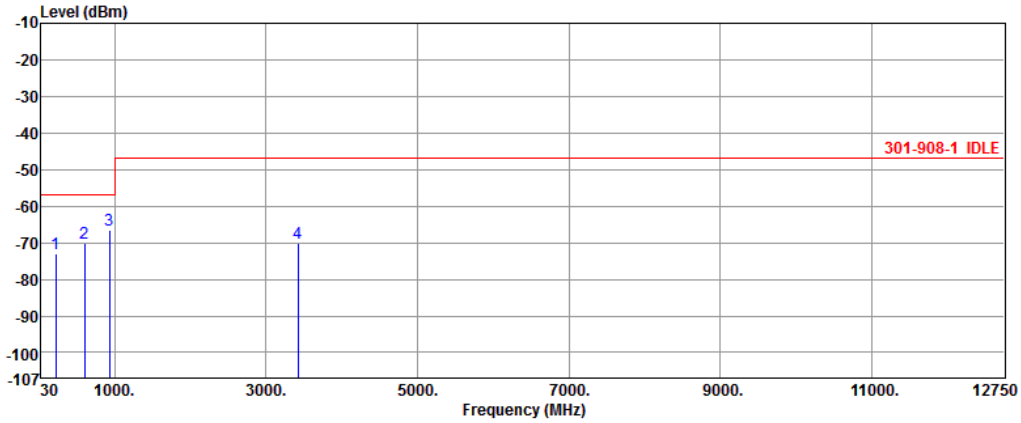
3.1.114 Radiated Emissions - Idle mode (LTE Band 3)

Test Channel (MHz)	1710.1	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	256.85	-74.15	-57.00	-17.15	-1.46	-72.69
2	601.84	-70.32	-57.00	-13.32	6.62	-76.94
3	896.21	-66.98	-57.00	-9.98	10.91	-77.89
4	3420.48	-70.32	-47.00	-23.32	6.09	-76.41

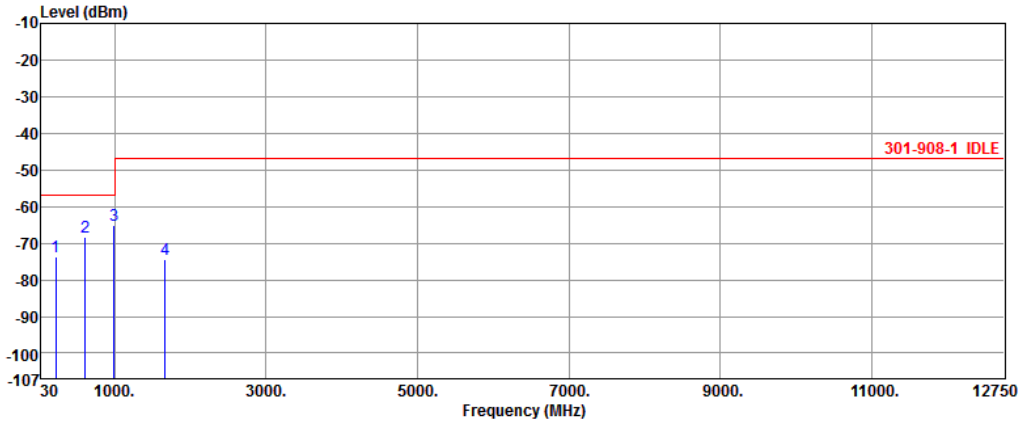
Test Channel (MHz)	1710.1	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	219.41	-73.11	-57.00	-16.11	-4.16	-68.95
2	599.96	-70.25	-57.00	-13.25	6.68	-76.93
3	928.85	-66.52	-57.00	-9.52	11.63	-78.15
4	3420.48	-70.10	-47.00	-23.10	5.73	-75.83

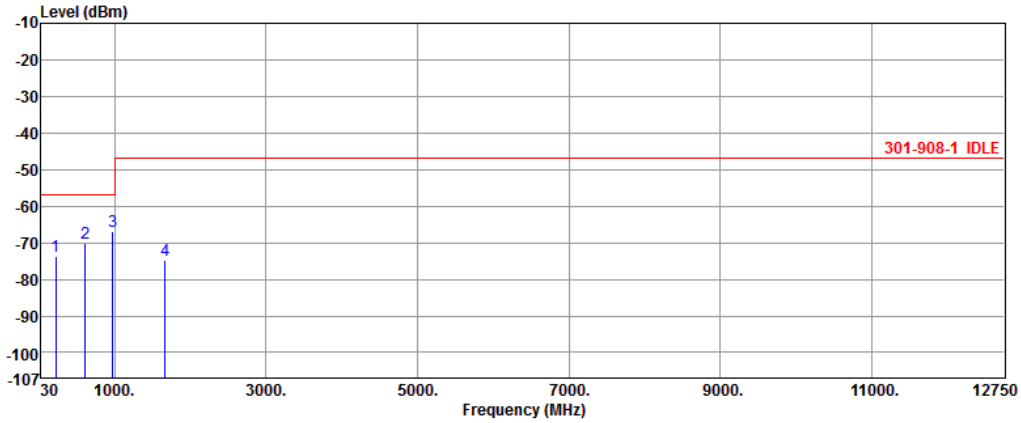
3.1.115 Radiated Emissions - Idle mode (LTE Band 20)

Test Channel (MHz)	832.1	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	220.41	-73.54	-57.00	-16.54	-3.71	-69.83
2	611.88	-68.42	-57.00	-11.42	6.95	-75.37
3	986.52	-65.12	-57.00	-8.12	11.98	-77.10
4	1664.46	-74.58	-47.00	-27.58	-1.06	-73.52

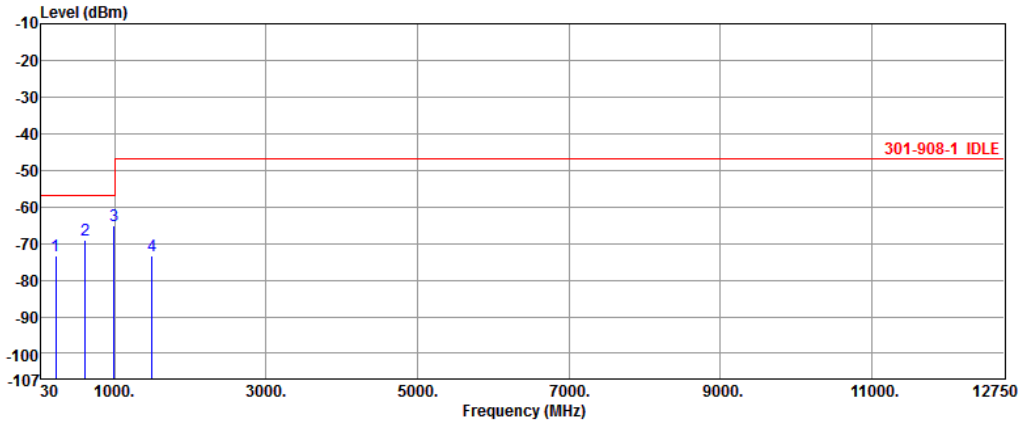
Test Channel (MHz)	832.1	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	218.41	-73.59	-57.00	-16.59	-4.11	-69.48
2	607.32	-69.97	-57.00	-12.97	7.14	-77.11
3	971.32	-66.85	-57.00	-9.85	11.78	-78.63
4	1664.46	-74.85	-47.00	-27.85	-1.08	-73.77

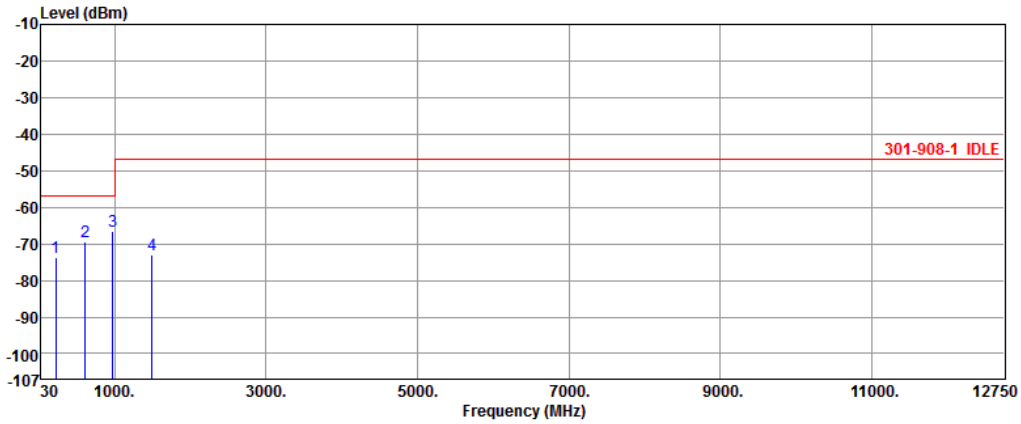
3.1.116 Radiated Emissions - Idle mode (LTE Band 28)

Test Channel (MHz)	747.9	Sub Carrier Spacing	15kHz
Polarization	Horizontal	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	220.99	-73.35	-57.00	-16.35	-3.82	-69.53
2	611.16	-68.99	-57.00	-11.99	6.94	-75.93
3	986.21	-65.11	-57.00	-8.11	11.99	-77.10
4	1495.21	-73.32	-47.00	-26.32	-0.51	-72.81

Test Channel (MHz)	747.9	Sub Carrier Spacing	15kHz
Polarization	Vertical	Frequency Range	30 MHz - 12.75 GHz



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	218.90	-73.63	-57.00	-16.63	-4.13	-69.50
2	607.85	-69.39	-57.00	-12.39	7.16	-76.55
3	971.87	-66.72	-57.00	-9.72	11.76	-78.48
4	1495.84	-73.13	-47.00	-26.13	-0.53	-72.60

3.2 Control and Monitoring Functions

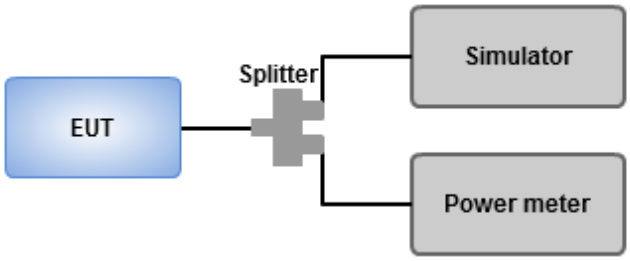
3.2.1 Limit of Control and Monitoring Functions

The maximum measured power during the duration of the test shall not exceed -30 dBm.

3.2.2 Test Procedures

Reference to clause 5.3.3.1 of ETSI EN 301 908-1 V11.1.1 (2016-07).

3.2.3 Test Setup



Cat-M1

3.2.4 Test Result of Control and Monitoring Functions (LTE Band 1)

Channel Bandwidth (MHz)	Measured Power Value (dBm)	Limit (dBm)
5	-52.3	-30
10	-52.4	-30
15	-52.5	-30
20	-52.3	-30

3.2.5 Test Result of Control and Monitoring Functions (LTE Band 3)

Channel Bandwidth (MHz)	Measured Power Value (dBm)	Limit (dBm)
1.4	-53.5	-30
3	-53.4	-30
5	-53.5	-30
10	-53.2	-30
15	-53.5	-30
20	-53.5	-30

3.2.6 Test Result of Control and Monitoring Functions (LTE Band 8)

Channel Bandwidth (MHz)	Measured Power Value (dBm)	Limit (dBm)
1.4	-54.2	-30
3	-54.1	-30
5	-54.5	-30
10	-54.4	-30

3.2.7 Test Result of Control and Monitoring Functions (LTE Band 20)

Channel Bandwidth (MHz)	Measured Power Value (dBm)	Limit (dBm)
5	-54.3	-30
10	-54.2	-30
15	-54.5	-30
20	-54.3	-30

3.2.8 Test Result of Control and Monitoring Functions (LTE Band 28)

Channel Bandwidth (MHz)	Measured Power Value (dBm)	Limit (dBm)
3	-54.4	-30
5	-54.3	-30
10	-54.3	-30
15	-54.5	-30
20	-54.3	-30

NB-IoT

3.2.9 Test Result of Control and Monitoring Functions (LTE Band 1)

Operation Region	Maxiumum power (dBm)	Limit
Stand alone	-52.3	-30
In-band	-52.3	-30
Guard-band	-52.3	-30

3.2.10 Test Result of Control and Monitoring Functions (LTE Band 3)

Operation Region	Maxiumum power (dBm)	Limit
Stand alone	-53.2	-30
In-band	-53.2	-30
Guard-band	-53.3	-30

3.2.11 Test Result of Control and Monitoring Functions (LTE Band 8)

Operation Region	Maxiumum power (dBm)	Limit
Stand alone	-54.1	-30
In-band	-54.1	-30
Guard-band	-54.1	-30

3.2.12 Test Result of Control and Monitoring Functions (LTE Band 20)

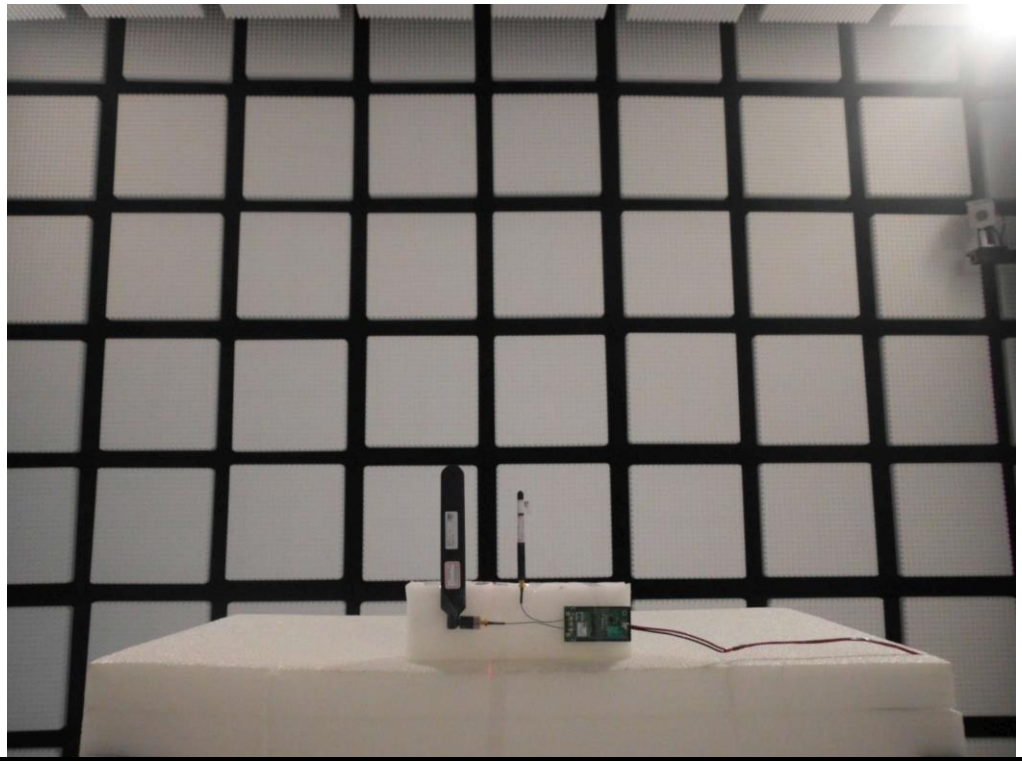
Operation Region	Maxiumum power (dBm)	Limit
Stand alone	-54.2	-30
In-band	-54.2	-30
Guard-band	-54.2	-30

3.2.13 Test Result of Control and Monitoring Functions (LTE Band 28)

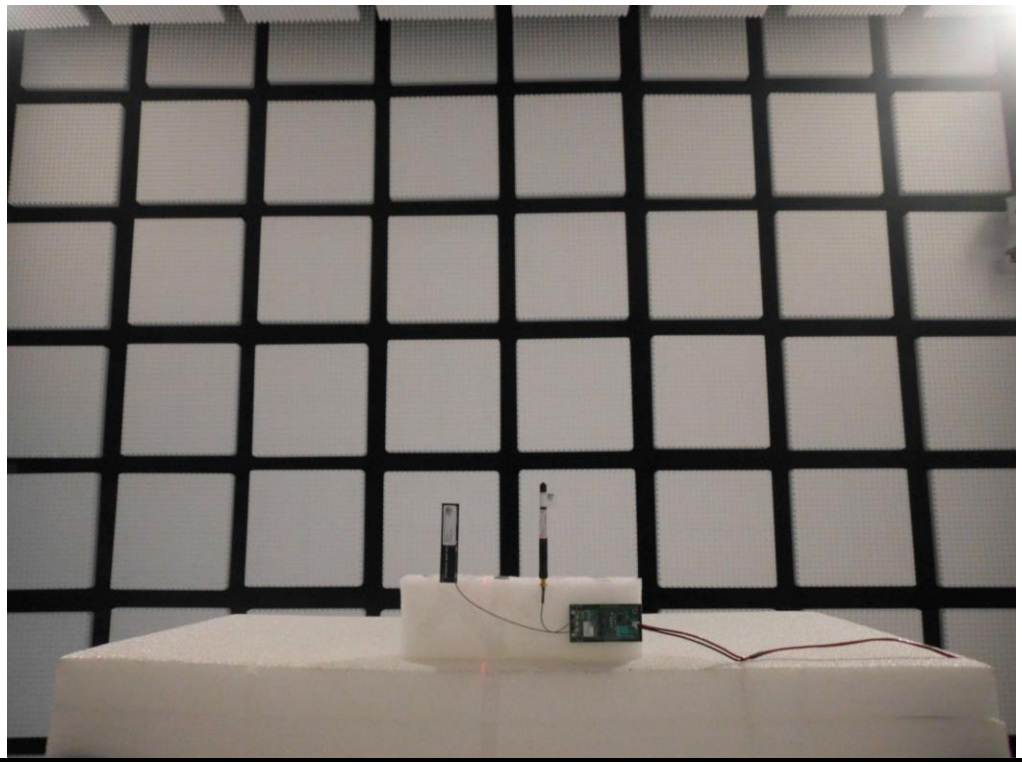
Operation Region	Maxiumum power (dBm)	Limit
Stand alone	-54.2	-30
In-band	-54.2	-30
Guard-band	-54.2	-30

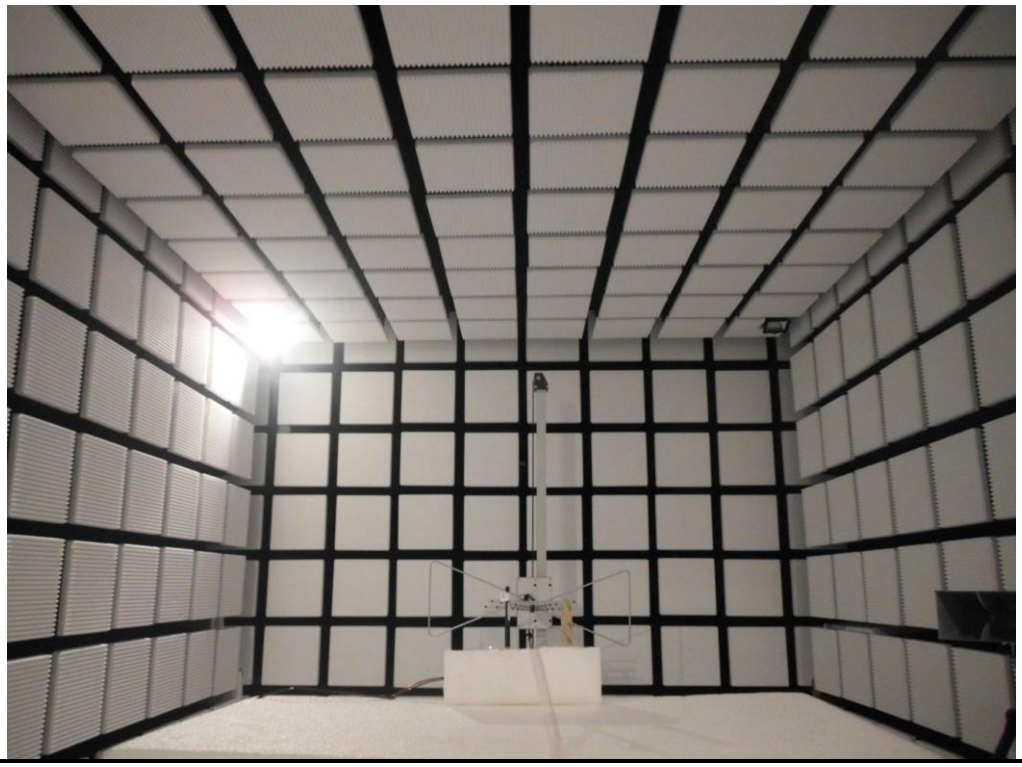
4 Photographs of the Test Configuration

DBA6927C1 + 001-0001 Antenna

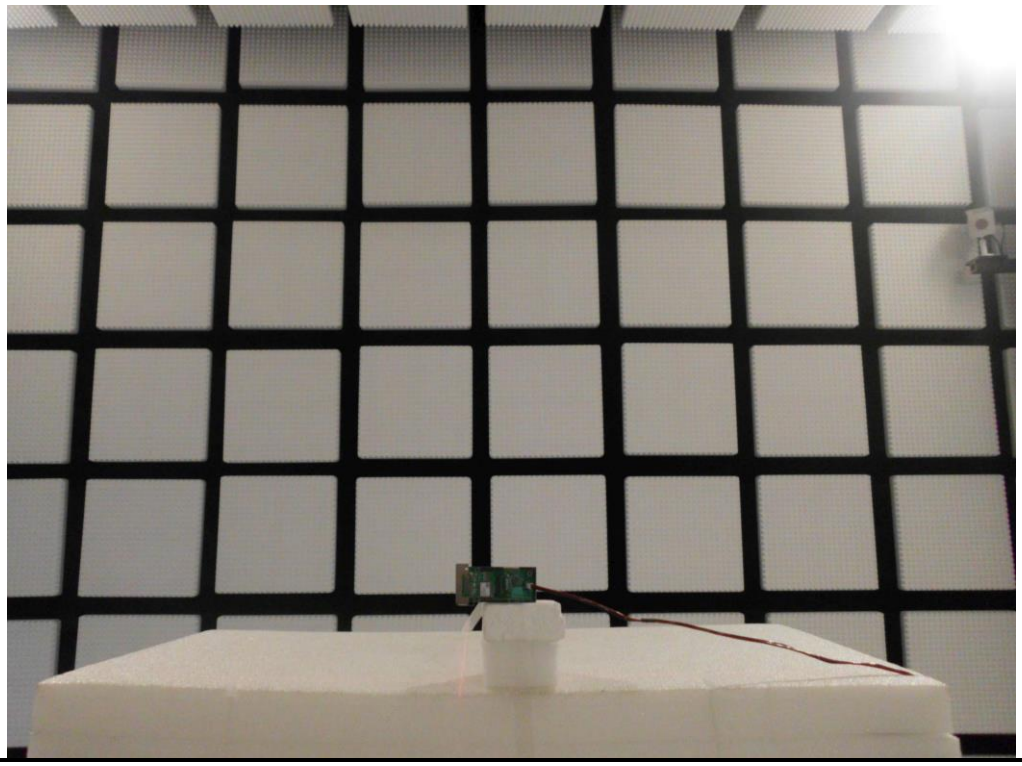


EFF6925A3S + 001-0001 Antenna





EPM6985-001 Antenna



5 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website http://www.icertifi.com.tw.

Linkou	**Kwei Shan**	**Kwei Shan Site II**
Tel: 886-2-2601-1640	Tel: 886-3-271-8666	Tel: 886-3-271-8640
No. 30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan, R.O.C.	No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C.	No. 14-1, Lane 19, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C..

If you have any suggestion, please feel free to contact us as below information

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