

CE Test Report

Equipment : 802.11 ac/a/b/g/n + Bluetooth 4.2 module
(please refer to section 1.1.1 for more details.)

Model No. : ST60-SIPT
(please refer to section 1.1.1 for more details.)

Brand Name : Laird Connectivity

Applicant : Laird Connectivity, Inc

Address : W66N220 Commerce Court, Cedarburg,
Wisconsin 53012, USA

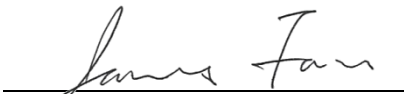
Standard : EN 300 440 V2.1.1 (2017-03)

Received Date : Jul. 01, 2019

Tested Date : Jul. 01 ~ Aug. 22, 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

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Release Record

Report No.	Version	Description	Issued Date
EQ740701-06	Rev. 01	Initial issue	Oct. 02, 2019

Summary of Test Results

Ref. Std. Clause	Test Items	Measured	Result
4.2.2	Equivalent Isotropically Radiated Power	13.95 dBm	Pass
4.2.3	Permitted Range of Operating Frequencies	Meet the requirement of limit.	Pass
4.2.4	Unwanted Emissions in the Spurious Domain	Meet the requirement of limit.	Pass
4.2.5.4	Duty Cycle	w/o test (No Restriction)	N/A
4.2.6	Additional Requirements for FHSS Equipment	N/A	N/A
4.3.3	Adjacent Channel Selectivity	Meet the requirement of limit.	Pass
4.3.4	Blocking or Desensitization	Meet the requirement of limit.	Pass
4.3.5	Receiver Spurious Radiation	Meet the requirement of limit.	Pass
4.4	Spectrum Access Techniques	N/A	N/A
4.6.4	GBSAR Antenna Pattern	N/A	N/A
ANNEX F	Limits for GBSAR	N/A	N/A

Note: N/A means not applicable.

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 Product Details

The following models are provided to this EUT.

Brand Name	Model Name	Product Name	Description	
Laird Connectivity	ST60-SIPT	802.11 ac/a/b/g/n + Bluetooth 4.2 module	SIPT only	For marketing purpose
	SU60-SIPT			
	ST60-2230C	802.11 ac/a/b/g/n M.2 2230 + Bluetooth 4.2 module	with carrier board	
	SU60-2230C			
	ST60-2230C-P	802.11 ac/a/b/g/n M.2 2230 + Bluetooth 4.2 module	For marketing purpose	
	SU60-2230C-P			
★ The above models, model SU60-2230C was selected as a representative one for the final test and only its data was recorded in this report.				

1.1.2 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS
5725-5850	a	5745-5825	149-165 [5]	2	6-54 Mbps
5725-5850	n (HT20)	5745-5825	149-165 [5]	2	MCS 0-15
5725-5850	n (HT40)	5755-5795	151-159 [2]	2	MCS 0-15
5725-5850	ac (VHT20)	5745-5825	149-165 [5]	2	MCS 0-9
5725-5850	ac (VHT40)	5755-5795	151-159 [2]	2	MCS 0-9
5725-5850	ac (VHT80)	5775	155 [1]	2	MCS 0-9
Note: 802.11a/n/ac uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.					

1.1.3 Antenna Details

Ant. No.	Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)				
				2400~2483.5	5150~5250	5250~5350	5470~5725	5725~5850
1	LSR/001-0009	Dipole	IPEX U.FL	2	2	2	2	2
2	Laird NanoBlade-IP04	PCB Dipole	IPEX U.FL	2	3.9	3.9	4	4
3	Laird MAF95310 Mini NanoBlade Flex	PCB Dipole	IPEX U.FL	2.79	3.38	3.38	3.38	3.38
4	LSR/FlexPIFA 001-0016	PIFA	IPEX U.FL	2.5	3	3	3	3
5	Ethertronics WLAN_1000146	Isolated Magnetic Dipole	IPEX U.FL	2.5	3.5	3.5	3.5	3.5
6	Laird/MIMO FlexPIFA Antenna	PIFA	IPEX U.FL	2	3	3	3	3

1.1.4 EUT Operational Condition

Power Supply Type	DC 3.3V from host		
SW Version	SD-UAPSTA-8997-U14-MMC-16.68.1.p95-C3X16219_V4-MGPL-src		
Operational Voltage	<input checked="" type="checkbox"/> Vnom (3.3 V)	<input checked="" type="checkbox"/> Vmax (3.63 V)	<input checked="" type="checkbox"/> Vmin (2.97 V)
Operational Climatic	<input checked="" type="checkbox"/> Tnom (20°C)	<input checked="" type="checkbox"/> Tmax (85°C)	<input checked="" type="checkbox"/> Tmin (-30°C)

1.1.5 Accessories

N/A

1.1.6 Receiver Category

Receiver Category	Risk Assessment Of Receiver Performance	
<input checked="" type="checkbox"/>	1	Highly reliable SRD communication media; e.g. serving human life inherent systems (may result in a physical risk to a person).
<input type="checkbox"/>	2	Medium reliable SRD communication media e.g. causing Inconvenience to persons, which cannot simply be overcome by other means.
<input type="checkbox"/>	3	Standard reliable SRD communication media e.g. Inconvenience to persons, which can simply be overcome by other means (e.g. manual).

1.1.7 Channel List

Frequency band (MHz)		5725~5850	
802.11 a / n HT20 / ac VHT20		802.11n HT40 / ac VHT40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
149	5745	151	5755
153	5765	159	5795
157	5785	802.11ac VHT80	
161	5805	155	5775
165	5825	---	---

1.1.8 Test Tool and Duty Cycle

Test Tool	Test command	
Modulation Mode	Duty Cycle Of Test Signal (%)	Duty Factor (dB)
a	100.00	0
ac (VHT20)	100.00	0
ac (VHT40)	100.00	0
ac (VHT80)	100.00	0

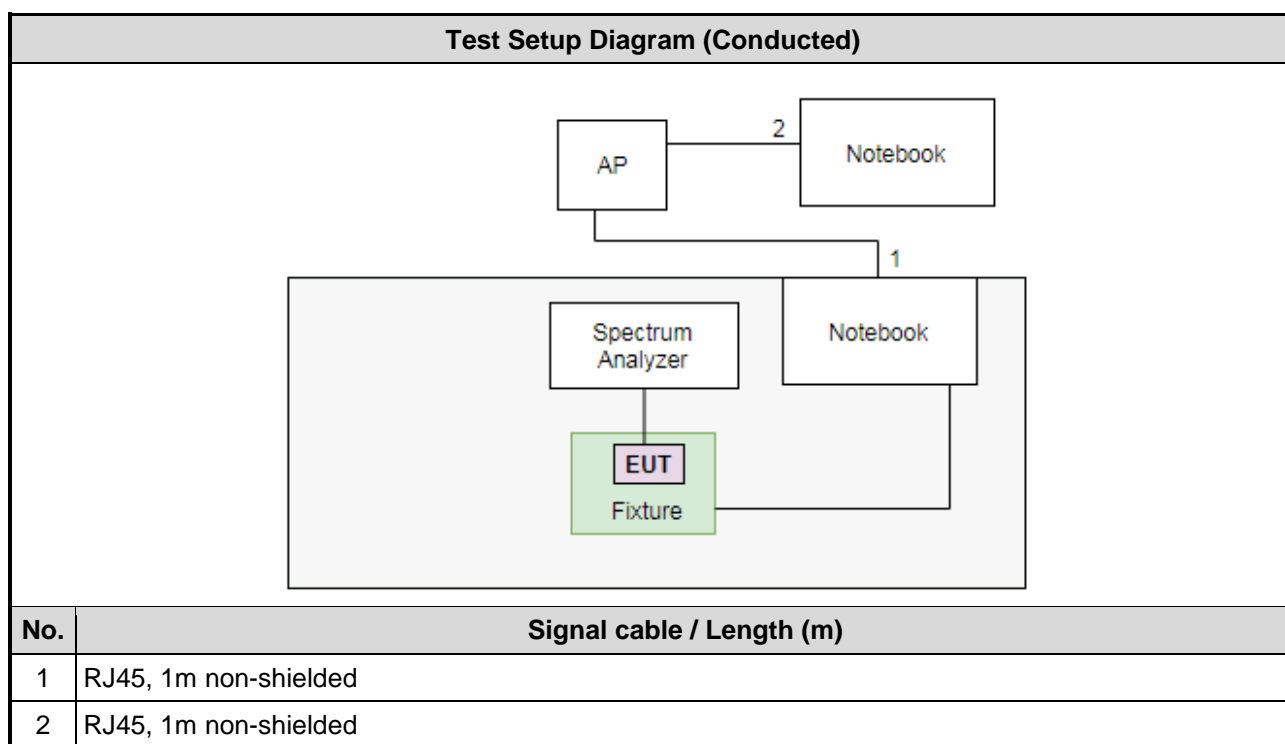
1.1.9 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)					
	a / VHT20			VHT40		VHT80
	5745	5785	5825	5755	5795	5775
a	7	7	7	---	---	---
ac (VHT20)	7	7	7	---	---	---
ac (VHT40)	---	---	---	7	7	---
ac (VHT80)	---	---	--	---	---	7

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	S/N	Remarks
1	Notebook	DELL	Latitude E5420	DoC	---
2	Notebook	Lenovo	T430	DoC	Provided by applicant.
3	50Ω terminator	---	---	---	---
4	Fixture	---	---	---	Provided by applicant.

1.3 Test Setup Chart



1.4 Test Equipment and Calibration Data

Test Item	Radiated Emissions				
Test Site	Fully-anechoic chamber 2 / (05CH02-WS)				
Tested Date	Jul. 02, 2019				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	Agilent	N9010A	MY52221474	Oct. 10, 2018	Oct. 09, 2019
Bilog Antenna 30-1000MHz	SCHWARZBECK	VULB9168	9168-563	Jan. 04, 2019	Jan. 03, 2020
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	9120D-1205	Jan. 18, 2019	Jan. 17, 2020
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170508	Dec. 22, 2018	Dec. 21, 2019
Preamplifier	Agilent	83017A	MY53270013	Dec. 27, 2018	Dec. 26, 2019
Preamplifier	EMC	EMC02325	980188	Dec. 13, 2018	Dec. 12, 2019
Preamplifier	EMC	EMC184045B	980192	Aug. 09, 2018	Aug. 08, 2019
RF cable-1M	HUBER+SUHNER	SUCOFLEX104	MY22622/4	Oct. 16, 2018	Oct. 15, 2019
RF cable-1M	HUBER+SUHNER	SUCOFLEX104	MY22623/4	Oct. 16, 2018	Oct. 15, 2019
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22621/4	Oct. 16, 2018	Oct. 15, 2019
RF cable-4M	HUBER+SUHNER	SUCOFLEX104	MY22579/4	Oct. 16, 2018	Oct. 15, 2019
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-002	Oct. 16, 2018	Oct. 15, 2019
LF cable-3M	EMC	EMC8D-NM-NM-3000	131102	Oct. 16, 2018	Oct. 15, 2019
LF cable-10M	EMC	EMC8D-NM-NM-10000	131101	Oct. 16, 2018	Oct. 15, 2019
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Aug. 21, 2019				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101486	Jan. 08, 2019	Jan. 07, 2020
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	Dec. 05, 2018	Dec. 04, 2019
Power Sensor	Agilent	U2021XA	MY53480019	Jan. 30, 2019	Jan. 29, 2020
Power Sensor	Agilent	U2021XA	MY53510003	Jan. 30, 2019	Jan. 29, 2020
Power Sensor	Agilent	U2021XA	MY54070003	Feb. 11, 2019	Feb. 10, 2020
Power Sensor	Agilent	U2021XA	MY54060013	Feb. 11, 2019	Feb. 10, 2020
DC POWER SOURCE	GW INSTEK	GPC-6030D	EM892433	Oct. 25, 2018	Oct. 24, 2019
AC POWER SOURCE	APC	AFC-500W	F312060012	Nov. 29, 2018	Nov. 28, 2019
Combiner(1X2)	woken	0120A02201801O	DOM2AEW1A23	Oct. 18, 2018	Oct. 17, 2019
Combiner(1X4)	WOKEN	4WAYDIV	0120A042011010	Oct. 17, 2018	Oct. 16, 2019
Measurement Software	Sporton	Sporton_1	1.3.30	NA	NA
Measurement Software	Agilent	EN RF test	1.1501125	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Receiver Blocking				
Test Site	(05CH02-WS)				
Tested Date	Aug. 22, 2019				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Wireless connectivity tester	ROHDE&SCHWARZ	CMW270	100856	Oct. 17, 2018	Oct. 16, 2019
Signal Generator	ROHDE&SCHWARZ	SMB100A	175727	Dec. 24, 2018	Dec. 23, 2019
RF Cable	HUBER+SUHNER	SUCOFLEX_104	500202/4	Oct. 17, 2018	Oct. 16, 2019
RF Cable	HUBER+SUHNER	SUCOFLEX_104	296088/4	Oct. 17, 2018	Oct. 16, 2019
RF Cable	HUBER+SUHNER	SUCOFLEX_104	329023/4	Oct. 17, 2018	Oct. 16, 2019
Combiner(1X2)	WOKEN	2WAYDIV	12101200003	Oct. 17, 2018	Oct. 16, 2019
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 standards:

EN 300 440 V2.1.1 (2017-03)

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		
Parameters	Uncertainty	Limit
Radio Frequency	$\pm 0.059 \times 10^{-7}$	$\pm 1 \times 10^{-7}$
RF power (conducted)	± 0.685 dB	$\pm 2,5$ dB
Radiated emission of transmitter, valid up to 40 GHz	± 3.40 dB	± 8 dB
Radiated emission of receiver, valid up to 40 GHz	± 3.40 dB	± 8 dB
Temperature	± 0.4 °C	± 1 °C
Humidity	± 3.3 %	± 5 %
Voltage (DC)	± 0.15 %	± 1 %
Voltage (AC, < 10kHz)	± 0.15 %	± 2 %

2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
RF Conducted	TH01-WS	25°C / 65%	Alex Huang
Radiated Emission	05CH02-WS	24°C / 65%	Ryan Lee
Receiver Blocking	05CH02-WS	22.5°C / 64%	Jack Li

2.2 The Worst Test Modes and Channel Details

Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Equivalent Isotropic Radiated Power Permitted Range of Operating Frequencies	11a VHT20 VHT40 VHT80	5745 / 5785 / 5825 5745 / 5785 / 5825 5755 / 5795 5775	6 Mbps MCS 0 MCS 0 MCS 0	1, 2, 3, 4
Transmitter Unwanted Emissions	11a VHT20 VHT40 VHT80	5745 / 5785 / 5825 5745 / 5785 / 5825 5755 / 5795 5775	6 Mbps MCS 0 MCS 0 MCS 0	2
Receiver Spurious Emissions	11a VHT20 VHT40 VHT80	5745 / 5785 / 5825 5745 / 5785 / 5825 5755 / 5795 5775	6 Mbps MCS 0 MCS 0 MCS 0	2
Receiver Blocking Adjacent Channel Selectivity	11a	5745 / 5825	6 Mbps	2

NOTE:

- The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Y-plane** results were found as the worst case and were shown in this report.
- The device can be operated under adapter mode and charging mode. Each mode was selected for related test items as below configuration.
 - Configuration 1 : Dipole Antenna
 - Configuration 2 : PCB Dipole Antenna
 - Configuration 3 : PIFA Antenna
 - Configuration 4: Isolated Magnetic Dipole Antenna
- Conducted emission is only measured for configuration 1 which has maximum conducted power.
- Two 50Ω terminators are connected to antenna port of EUT for radiated emission measurement.

3 Transmitter Test Results

3.1 Equivalent Isotropically Radiated Power (e.i.r.p.)

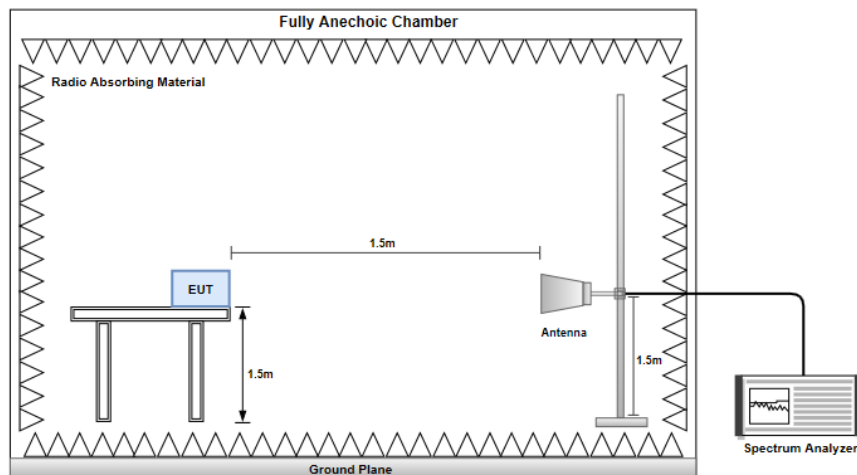
3.1.1 Limit of Equivalent Isotropically Radiated Power

Frequency Bands	Power	Applications
5 725 MHz to 5 875 MHz	25 mW (14dBm) e.i.r.p.	Non-specific short range devices

3.1.2 Test Procedures

Reference to clause 4.2.2.3 of EN 300 440 V2.1.1 (2017-03).

3.1.3 Test Setup



3.1.4 Test Result of Equivalent Isotropically Radiated Power

Configuration 1 : Dipole Antenna

Maximum Transmit Power (dBm)				
Modulation Mode	11a			
Condition	Freq. (MHz)	EIRP Power (dBm)	EIRP Limit (dBm)	Results
$T_{nom}V_{nom}$	5745	11.13	14	Pass
$T_{min}V_{max}$	5745	11.78	14	Pass
$T_{min}V_{min}$	5745	11.80	14	Pass
$T_{max}V_{max}$	5745	11.31	14	Pass
$T_{max}V_{min}$	5745	11.28	14	Pass
$T_{nom}V_{nom}$	5785	11.09	14	Pass
$T_{min}V_{max}$	5785	11.79	14	Pass
$T_{min}V_{min}$	5785	11.82	14	Pass
$T_{max}V_{max}$	5785	11.32	14	Pass
$T_{max}V_{min}$	5785	11.30	14	Pass
$T_{nom}V_{nom}$	5825	10.91	14	Pass
$T_{min}V_{max}$	5825	11.76	14	Pass
$T_{min}V_{min}$	5825	11.79	14	Pass
$T_{max}V_{max}$	5825	11.12	14	Pass
$T_{max}V_{min}$	5825	11.10	14	Pass

Maximum Transmit Power (dBm)				
Modulation Mode	VHT20			
Condition	Freq. (MHz)	EIRP Power (dBm)	EIRP Limit (dBm)	Results
$T_{nom}V_{nom}$	5745	11.34	14	Pass
$T_{min}V_{max}$	5745	11.99	14	Pass
$T_{min}V_{min}$	5745	12.01	14	Pass
$T_{max}V_{max}$	5745	11.46	14	Pass
$T_{max}V_{min}$	5745	11.44	14	Pass
$T_{nom}V_{nom}$	5785	11.23	14	Pass
$T_{min}V_{max}$	5785	11.84	14	Pass
$T_{min}V_{min}$	5785	11.86	14	Pass
$T_{max}V_{max}$	5785	11.32	14	Pass
$T_{max}V_{min}$	5785	11.30	14	Pass
$T_{nom}V_{nom}$	5825	11.11	14	Pass
$T_{min}V_{max}$	5825	11.80	14	Pass
$T_{min}V_{min}$	5825	11.82	14	Pass
$T_{max}V_{max}$	5825	11.19	14	Pass
$T_{max}V_{min}$	5825	11.17	14	Pass

Maximum Transmit Power (dBm)				
Modulation Mode	VHT40			
Condition	Freq. (MHz)	EIRP Power (dBm)	EIRP Limit (dBm)	Results
$T_{nom}V_{nom}$	5755	11.05	14	Pass
$T_{min}V_{max}$	5755	11.86	14	Pass
$T_{min}V_{min}$	5755	11.89	14	Pass
$T_{max}V_{max}$	5755	11.30	14	Pass
$T_{max}V_{min}$	5755	11.28	14	Pass
$T_{nom}V_{nom}$	5795	11.00	14	Pass
$T_{min}V_{max}$	5795	11.72	14	Pass
$T_{min}V_{min}$	5795	11.76	14	Pass
$T_{max}V_{max}$	5795	11.23	14	Pass
$T_{max}V_{min}$	5795	11.20	14	Pass

Maximum Transmit Power (dBm)				
Modulation Mode	VHT80			
Condition	Freq. (MHz)	EIRP Power (dBm)	EIRP Limit (dBm)	Results
$T_{nom}V_{nom}$	5775	11.39	14	Pass
$T_{min}V_{max}$	5775	11.96	14	Pass
$T_{min}V_{min}$	5775	12.00	14	Pass
$T_{max}V_{max}$	5775	11.54	14	Pass
$T_{max}V_{min}$	5775	11.51	14	Pass

Configuration 2 : PCB Dipole Antenna

Maximum Transmit Power (dBm)				
Modulation Mode	11a			
Condition	Freq. (MHz)	EIRP Power (dBm)	EIRP Limit (dBm)	Results
$T_{nom}V_{nom}$	5745	13.12	14	Pass
$T_{min}V_{max}$	5745	13.77	14	Pass
$T_{min}V_{min}$	5745	13.79	14	Pass
$T_{max}V_{max}$	5745	13.30	14	Pass
$T_{max}V_{min}$	5745	13.27	14	Pass
$T_{nom}V_{nom}$	5785	13.05	14	Pass
$T_{min}V_{max}$	5785	13.75	14	Pass
$T_{min}V_{min}$	5785	13.78	14	Pass
$T_{max}V_{max}$	5785	13.28	14	Pass
$T_{max}V_{min}$	5785	13.26	14	Pass
$T_{nom}V_{nom}$	5825	12.88	14	Pass
$T_{min}V_{max}$	5825	13.73	14	Pass
$T_{min}V_{min}$	5825	13.76	14	Pass
$T_{max}V_{max}$	5825	13.09	14	Pass
$T_{max}V_{min}$	5825	13.07	14	Pass

Maximum Transmit Power (dBm)				
Modulation Mode	VHT20			
Condition	Freq. (MHz)	EIRP Power (dBm)	EIRP Limit (dBm)	Results
$T_{nom}V_{nom}$	5745	13.28	14	Pass
$T_{min}V_{max}$	5745	13.93	14	Pass
$T_{min}V_{min}$	5745	13.95	14	Pass
$T_{max}V_{max}$	5745	13.40	14	Pass
$T_{max}V_{min}$	5745	13.38	14	Pass
$T_{nom}V_{nom}$	5785	13.21	14	Pass
$T_{min}V_{max}$	5785	13.82	14	Pass
$T_{min}V_{min}$	5785	13.84	14	Pass
$T_{max}V_{max}$	5785	13.30	14	Pass
$T_{max}V_{min}$	5785	13.28	14	Pass
$T_{nom}V_{nom}$	5825	13.09	14	Pass
$T_{min}V_{max}$	5825	13.78	14	Pass
$T_{min}V_{min}$	5825	13.80	14	Pass
$T_{max}V_{max}$	5825	13.17	14	Pass
$T_{max}V_{min}$	5825	13.15	14	Pass

Maximum Transmit Power (dBm)				
Modulation Mode	VHT40			
Condition	Freq. (MHz)	EIRP Power (dBm)	EIRP Limit (dBm)	Results
$T_{nom}V_{nom}$	5755	13.06	14	Pass
$T_{min}V_{max}$	5755	13.87	14	Pass
$T_{min}V_{min}$	5755	13.90	14	Pass
$T_{max}V_{max}$	5755	13.31	14	Pass
$T_{max}V_{min}$	5755	13.29	14	Pass
$T_{nom}V_{nom}$	5795	12.94	14	Pass
$T_{min}V_{max}$	5795	13.66	14	Pass
$T_{min}V_{min}$	5795	13.70	14	Pass
$T_{max}V_{max}$	5795	13.17	14	Pass
$T_{max}V_{min}$	5795	13.14	14	Pass

Maximum Transmit Power (dBm)				
Modulation Mode	VHT80			
Condition	Freq. (MHz)	EIRP Power (dBm)	EIRP Limit (dBm)	Results
$T_{nom}V_{nom}$	5775	13.33	14	Pass
$T_{min}V_{max}$	5775	13.90	14	Pass
$T_{min}V_{min}$	5775	13.94	14	Pass
$T_{max}V_{max}$	5775	13.48	14	Pass
$T_{max}V_{min}$	5775	13.45	14	Pass

Configuration 3 : PIFA Antenna

Maximum Transmit Power (dBm)				
Modulation Mode	11a			
Condition	Freq. (MHz)	EIRP Power (dBm)	EIRP Limit (dBm)	Results
$T_{nom}V_{nom}$	5745	12.13	14	Pass
$T_{min}V_{max}$	5745	12.78	14	Pass
$T_{min}V_{min}$	5745	12.80	14	Pass
$T_{max}V_{max}$	5745	12.31	14	Pass
$T_{max}V_{min}$	5745	12.28	14	Pass
$T_{nom}V_{nom}$	5785	12.09	14	Pass
$T_{min}V_{max}$	5785	12.79	14	Pass
$T_{min}V_{min}$	5785	12.82	14	Pass
$T_{max}V_{max}$	5785	12.32	14	Pass
$T_{max}V_{min}$	5785	12.30	14	Pass
$T_{nom}V_{nom}$	5825	11.91	14	Pass
$T_{min}V_{max}$	5825	12.76	14	Pass
$T_{min}V_{min}$	5825	12.79	14	Pass
$T_{max}V_{max}$	5825	12.12	14	Pass
$T_{max}V_{min}$	5825	12.10	14	Pass

Maximum Transmit Power (dBm)				
Modulation Mode	VHT20			
Condition	Freq. (MHz)	EIRP Power (dBm)	EIRP Limit (dBm)	Results
$T_{nom}V_{nom}$	5745	12.34	14	Pass
$T_{min}V_{max}$	5745	12.99	14	Pass
$T_{min}V_{min}$	5745	13.01	14	Pass
$T_{max}V_{max}$	5745	12.46	14	Pass
$T_{max}V_{min}$	5745	12.44	14	Pass
$T_{nom}V_{nom}$	5785	12.23	14	Pass
$T_{min}V_{max}$	5785	12.84	14	Pass
$T_{min}V_{min}$	5785	12.86	14	Pass
$T_{max}V_{max}$	5785	12.32	14	Pass
$T_{max}V_{min}$	5785	12.30	14	Pass
$T_{nom}V_{nom}$	5825	12.11	14	Pass
$T_{min}V_{max}$	5825	12.80	14	Pass
$T_{min}V_{min}$	5825	12.82	14	Pass
$T_{max}V_{max}$	5825	12.19	14	Pass
$T_{max}V_{min}$	5825	12.17	14	Pass

Maximum Transmit Power (dBm)				
Modulation Mode	VHT40			
Condition	Freq. (MHz)	EIRP Power (dBm)	EIRP Limit (dBm)	Results
$T_{nom}V_{nom}$	5755	12.05	14	Pass
$T_{min}V_{max}$	5755	12.86	14	Pass
$T_{min}V_{min}$	5755	12.89	14	Pass
$T_{max}V_{max}$	5755	12.30	14	Pass
$T_{max}V_{min}$	5755	12.28	14	Pass
$T_{nom}V_{nom}$	5795	12.00	14	Pass
$T_{min}V_{max}$	5795	12.72	14	Pass
$T_{min}V_{min}$	5795	12.76	14	Pass
$T_{max}V_{max}$	5795	12.23	14	Pass
$T_{max}V_{min}$	5795	12.20	14	Pass

Maximum Transmit Power (dBm)				
Modulation Mode	VHT80			
Condition	Freq. (MHz)	EIRP Power (dBm)	EIRP Limit (dBm)	Results
$T_{nom}V_{nom}$	5775	12.39	14	Pass
$T_{min}V_{max}$	5775	12.96	14	Pass
$T_{min}V_{min}$	5775	13.00	14	Pass
$T_{max}V_{max}$	5775	12.54	14	Pass
$T_{max}V_{min}$	5775	12.51	14	Pass

Configuration 4: Isolated Magnetic Dipole Antenna

Maximum Transmit Power (dBm)				
Modulation Mode	11a			
Condition	Freq. (MHz)	EIRP Power (dBm)	EIRP Limit (dBm)	Results
$T_{nom}V_{nom}$	5745	12.67	14	Pass
$T_{min}V_{max}$	5745	13.32	14	Pass
$T_{min}V_{min}$	5745	13.34	14	Pass
$T_{max}V_{max}$	5745	12.85	14	Pass
$T_{max}V_{min}$	5745	12.82	14	Pass
$T_{nom}V_{nom}$	5785	12.59	14	Pass
$T_{min}V_{max}$	5785	13.29	14	Pass
$T_{min}V_{min}$	5785	13.32	14	Pass
$T_{max}V_{max}$	5785	12.82	14	Pass
$T_{max}V_{min}$	5785	12.80	14	Pass
$T_{nom}V_{nom}$	5825	12.41	14	Pass
$T_{min}V_{max}$	5825	13.26	14	Pass
$T_{min}V_{min}$	5825	13.29	14	Pass
$T_{max}V_{max}$	5825	12.62	14	Pass
$T_{max}V_{min}$	5825	12.60	14	Pass

Maximum Transmit Power (dBm)				
Modulation Mode	VHT20			
Condition	Freq. (MHz)	EIRP Power (dBm)	EIRP Limit (dBm)	Results
$T_{nom}V_{nom}$	5745	12.82	14	Pass
$T_{min}V_{max}$	5745	13.47	14	Pass
$T_{min}V_{min}$	5745	13.49	14	Pass
$T_{max}V_{max}$	5745	12.94	14	Pass
$T_{max}V_{min}$	5745	12.92	14	Pass
$T_{nom}V_{nom}$	5785	12.73	14	Pass
$T_{min}V_{max}$	5785	13.34	14	Pass
$T_{min}V_{min}$	5785	13.36	14	Pass
$T_{max}V_{max}$	5785	12.82	14	Pass
$T_{max}V_{min}$	5785	12.80	14	Pass
$T_{nom}V_{nom}$	5825	12.61	14	Pass
$T_{min}V_{max}$	5825	13.30	14	Pass
$T_{min}V_{min}$	5825	13.32	14	Pass
$T_{max}V_{max}$	5825	12.69	14	Pass
$T_{max}V_{min}$	5825	12.67	14	Pass

Maximum Transmit Power (dBm)				
Modulation Mode	VHT40			
Condition	Freq. (MHz)	EIRP Power (dBm)	EIRP Limit (dBm)	Results
$T_{nom}V_{nom}$	5755	12.54	14	Pass
$T_{min}V_{max}$	5755	13.35	14	Pass
$T_{min}V_{min}$	5755	13.38	14	Pass
$T_{max}V_{max}$	5755	12.79	14	Pass
$T_{max}V_{min}$	5755	12.77	14	Pass
$T_{nom}V_{nom}$	5795	12.45	14	Pass
$T_{min}V_{max}$	5795	13.17	14	Pass
$T_{min}V_{min}$	5795	13.21	14	Pass
$T_{max}V_{max}$	5795	12.68	14	Pass
$T_{max}V_{min}$	5795	12.65	14	Pass

Maximum Transmit Power (dBm)				
Modulation Mode	VHT80			
Condition	Freq. (MHz)	EIRP Power (dBm)	EIRP Limit (dBm)	Results
$T_{nom}V_{nom}$	5775	12.81	14	Pass
$T_{min}V_{max}$	5775	13.38	14	Pass
$T_{min}V_{min}$	5775	13.42	14	Pass
$T_{max}V_{max}$	5775	12.96	14	Pass
$T_{max}V_{min}$	5775	12.93	14	Pass

3.2 Permitted Range of Operating Frequencies

3.2.1 Limit of Permitted Range of Operating Frequencies

The width of the power spectrum envelope is $f_H - f_L$ for a given operating frequency. In equipment that allows adjustment or selection of different operating frequencies, the power envelope takes up different positions in the allowed band. The frequency range is determined by the lowest value of f_L and the highest value of f_H resulting from the adjustment of the equipment to the lowest and highest operating frequencies.

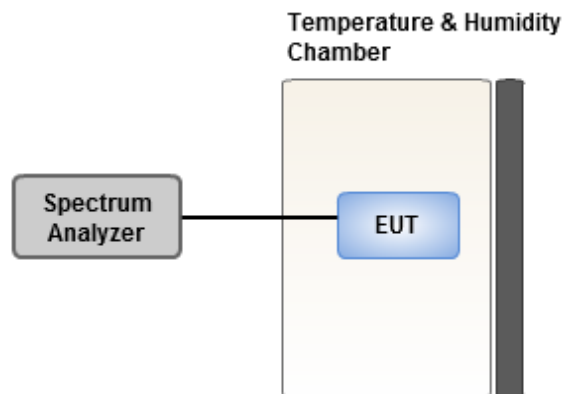
The occupied bandwidth (i.e. the bandwidth in which 99 % of the wanted emission is contained) and the necessary bandwidth of the transmitter shall fall within the assigned frequency band.

For all equipment the frequency range shall lie within the frequency band given by clause 4.2.2.4, table 2. For non-harmonized frequency bands the available frequency range may differ between national administrations.

3.2.2 Test Procedures

Reference to clause 4.2.3.3 of EN 300 440 V2.1.1 (2017-03).

3.2.3 Test Setup



3.2.4 Test Result of Permitted Range of Operating Frequencies

Configuration 1 : Dipole Antenna

Frequency Range (MHz)						
Modulation Mode	11a					
Condition	Freq. (MHz)	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)	Results
T _{nom} V _{nom}	5745	5736.28	-	5725	5875	Pass
T _{min} V _{max}	5745	5736.59	-	5725	5875	Pass
T _{min} V _{min}	5745	5736.59	-	5725	5875	Pass
T _{max} V _{max}	5745	5736.56	-	5725	5875	Pass
T _{max} V _{min}	5745	5736.56	-	5725	5875	Pass
T _{nom} V _{nom}	5825	-	5833.46	5725	5875	Pass
T _{min} V _{max}	5825	-	5832.86	5725	5875	Pass
T _{min} V _{min}	5825	-	5832.86	5725	5875	Pass
T _{max} V _{max}	5825	-	5833.48	5725	5875	Pass
T _{max} V _{min}	5825	-	5833.48	5725	5875	Pass

Frequency Range (MHz)						
Modulation Mode	VHT20					
Condition	Freq. (MHz)	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)	Results
T _{nom} V _{nom}	5745	5735.90	-	5725	5875	Pass
T _{min} V _{max}	5745	5735.96	-	5725	5875	Pass
T _{min} V _{min}	5745	5735.96	-	5725	5875	Pass
T _{max} V _{max}	5745	5736.15	-	5725	5875	Pass
T _{max} V _{min}	5745	5736.15	-	5725	5875	Pass
T _{nom} V _{nom}	5825	-	5834.20	5725	5875	Pass
T _{min} V _{max}	5825	-	5833.82	5725	5875	Pass
T _{min} V _{min}	5825	-	5833.82	5725	5875	Pass
T _{max} V _{max}	5825	-	5834.33	5725	5875	Pass
T _{max} V _{min}	5825	-	5834.33	5725	5875	Pass

Frequency Range (MHz)						
Modulation Mode	VHT40					
Condition	Freq. (MHz)	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)	Results
T _{nom} V _{nom}	5755	5736.43	-	5725	5875	Pass
T _{min} V _{max}	5755	5736.65	-	5725	5875	Pass
T _{min} V _{min}	5755	5736.65	-	5725	5875	Pass
T _{max} V _{max}	5755	5736.70	-	5725	5875	Pass
T _{max} V _{min}	5755	5736.70	-	5725	5875	Pass
T _{nom} V _{nom}	5795	-	5813.26	5725	5875	Pass
T _{min} V _{max}	5795	-	5813.22	5725	5875	Pass
T _{min} V _{min}	5795	-	5813.22	5725	5875	Pass
T _{max} V _{max}	5795	-	5813.45	5725	5875	Pass
T _{max} V _{min}	5795	-	5813.45	5725	5875	Pass

Frequency Range (MHz)						
Modulation Mode	VHT80					
Condition	Freq. (MHz)	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)	Results
T _{nom} V _{nom}	5775	5736.42	-	5725	5875	Pass
T _{min} V _{max}	5775	5736.63	-	5725	5875	Pass
T _{min} V _{min}	5775	5736.63	-	5725	5875	Pass
T _{max} V _{max}	5775	5736.78	-	5725	5875	Pass
T _{max} V _{min}	5775	5736.78	-	5725	5875	Pass

Configuration 2 : PCB Dipole Antenna

Frequency Range (MHz)						
Modulation Mode	11a					
Condition	Freq. (MHz)	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)	Results
T _{nom} V _{nom}	5745	5736.32	-	5725	5875	Pass
T _{min} V _{max}	5745	5736.65	-	5725	5875	Pass
T _{min} V _{min}	5745	5736.65	-	5725	5875	Pass
T _{max} V _{max}	5745	5736.61	-	5725	5875	Pass
T _{max} V _{min}	5745	5736.61	-	5725	5875	Pass
T _{nom} V _{nom}	5825	-	5833.54	5725	5875	Pass
T _{min} V _{max}	5825	-	5832.89	5725	5875	Pass
T _{min} V _{min}	5825	-	5832.89	5725	5875	Pass
T _{max} V _{max}	5825	-	5833.54	5725	5875	Pass
T _{max} V _{min}	5825	-	5833.54	5725	5875	Pass

Frequency Range (MHz)						
Modulation Mode	VHT20					
Condition	Freq. (MHz)	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)	Results
T _{nom} V _{nom}	5745	5735.93	-	5725	5875	Pass
T _{min} V _{max}	5745	5736.00	-	5725	5875	Pass
T _{min} V _{min}	5745	5736.00	-	5725	5875	Pass
T _{max} V _{max}	5745	5736.22	-	5725	5875	Pass
T _{max} V _{min}	5745	5736.22	-	5725	5875	Pass
T _{nom} V _{nom}	5825	-	5834.26	5725	5875	Pass
T _{min} V _{max}	5825	-	5833.88	5725	5875	Pass
T _{min} V _{min}	5825	-	5833.88	5725	5875	Pass
T _{max} V _{max}	5825	-	5834.41	5725	5875	Pass
T _{max} V _{min}	5825	-	5834.41	5725	5875	Pass

Frequency Range (MHz)						
Modulation Mode	VHT40					
Condition	Freq. (MHz)	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)	Results
T _{nom} V _{nom}	5755	5736.48	-	5725	5875	Pass
T _{min} V _{max}	5755	5736.71	-	5725	5875	Pass
T _{min} V _{min}	5755	5736.71	-	5725	5875	Pass
T _{max} V _{max}	5755	5736.77	-	5725	5875	Pass
T _{max} V _{min}	5755	5736.77	-	5725	5875	Pass
T _{nom} V _{nom}	5795	-	5813.32	5725	5875	Pass
T _{min} V _{max}	5795	-	5813.28	5725	5875	Pass
T _{min} V _{min}	5795	-	5813.28	5725	5875	Pass
T _{max} V _{max}	5795	-	5813.52	5725	5875	Pass
T _{max} V _{min}	5795	-	5813.52	5725	5875	Pass

Frequency Range (MHz)						
Modulation Mode	VHT80					
Condition	Freq. (MHz)	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)	Results
T _{nom} V _{nom}	5775	5736.48	-	5725	5875	Pass
T _{min} V _{max}	5775	5736.69	-	5725	5875	Pass
T _{min} V _{min}	5775	5736.69	-	5725	5875	Pass
T _{max} V _{max}	5775	5736.84	-	5725	5875	Pass
T _{max} V _{min}	5775	5736.84	-	5725	5875	Pass

Configuration 3 : PIFA Antenna

Frequency Range (MHz)						
Modulation Mode	11a					
Condition	Freq. (MHz)	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)	Results
T _{nom} V _{nom}	5745	5736.30	-	5725	5875	Pass
T _{min} V _{max}	5745	5736.61	-	5725	5875	Pass
T _{min} V _{min}	5745	5736.61	-	5725	5875	Pass
T _{max} V _{max}	5745	5736.57	-	5725	5875	Pass
T _{max} V _{min}	5745	5736.57	-	5725	5875	Pass
T _{nom} V _{nom}	5825	-	5833.48	5725	5875	Pass
T _{min} V _{max}	5825	-	5832.87	5725	5875	Pass
T _{min} V _{min}	5825	-	5832.87	5725	5875	Pass
T _{max} V _{max}	5825	-	5833.50	5725	5875	Pass
T _{max} V _{min}	5825	-	5833.50	5725	5875	Pass

Frequency Range (MHz)						
Modulation Mode	VHT20					
Condition	Freq. (MHz)	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)	Results
T _{nom} V _{nom}	5745	5735.92	-	5725	5875	Pass
T _{min} V _{max}	5745	5735.98	-	5725	5875	Pass
T _{min} V _{min}	5745	5735.98	-	5725	5875	Pass
T _{max} V _{max}	5745	5736.17	-	5725	5875	Pass
T _{max} V _{min}	5745	5736.17	-	5725	5875	Pass
T _{nom} V _{nom}	5825	-	5834.22	5725	5875	Pass
T _{min} V _{max}	5825	-	5833.84	5725	5875	Pass
T _{min} V _{min}	5825	-	5833.84	5725	5875	Pass
T _{max} V _{max}	5825	-	8834.36	5725	5875	Pass
T _{max} V _{min}	5825	-	8834.36	5725	5875	Pass

Frequency Range (MHz)						
Modulation Mode	VHT40					
Condition	Freq. (MHz)	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)	Results
T _{nom} V _{nom}	5755	5736.45	-	5725	5875	Pass
T _{min} V _{max}	5755	5736.66	-	5725	5875	Pass
T _{min} V _{min}	5755	5736.66	-	5725	5875	Pass
T _{max} V _{max}	5755	5736.72	-	5725	5875	Pass
T _{max} V _{min}	5755	5736.72	-	5725	5875	Pass
T _{nom} V _{nom}	5795	-	5813.28	5725	5875	Pass
T _{min} V _{max}	5795	-	5813.24	5725	5875	Pass
T _{min} V _{min}	5795	-	5813.24	5725	5875	Pass
T _{max} V _{max}	5795	-	5813.46	5725	5875	Pass
T _{max} V _{min}	5795	-	5813.46	5725	5875	Pass

Frequency Range (MHz)						
Modulation Mode	VHT80					
Condition	Freq. (MHz)	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)	Results
T _{nom} V _{nom}	5775	5736.43	-	5725	5875	Pass
T _{min} V _{max}	5775	5736.65	-	5725	5875	Pass
T _{min} V _{min}	5775	5736.65	-	5725	5875	Pass
T _{max} V _{max}	5775	5736.81	-	5725	5875	Pass
T _{max} V _{min}	5775	5736.81	-	5725	5875	Pass

Configuration 4: Isolated Magnetic Dipole Antenna

Frequency Range (MHz)						
Modulation Mode	11a					
Condition	Freq. (MHz)	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)	Results
T _{nom} V _{nom}	5745	5736.33	-	5725	5875	Pass
T _{min} V _{max}	5745	5736.64	-	5725	5875	Pass
T _{min} V _{min}	5745	5736.64	-	5725	5875	Pass
T _{max} V _{max}	5745	5736.60	-	5725	5875	Pass
T _{max} V _{min}	5745	5736.60	-	5725	5875	Pass
T _{nom} V _{nom}	5825	-	5833.52	5725	5875	Pass
T _{min} V _{max}	5825	-	5832.90	5725	5875	Pass
T _{min} V _{min}	5825	-	5832.90	5725	5875	Pass
T _{max} V _{max}	5825	-	5833.53	5725	5875	Pass
T _{max} V _{min}	5825	-	5833.53	5725	5875	Pass

Frequency Range (MHz)						
Modulation Mode	VHT20					
Condition	Freq. (MHz)	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)	Results
T _{nom} V _{nom}	5745	5735.93	-	5725	5875	Pass
T _{min} V _{max}	5745	5736.02	-	5725	5875	Pass
T _{min} V _{min}	5745	5736.02	-	5725	5875	Pass
T _{max} V _{max}	5745	5736.20	-	5725	5875	Pass
T _{max} V _{min}	5745	5736.20	-	5725	5875	Pass
T _{nom} V _{nom}	5825	-	5834.25	5725	5875	Pass
T _{min} V _{max}	5825	-	5833.86	5725	5875	Pass
T _{min} V _{min}	5825	-	5833.86	5725	5875	Pass
T _{max} V _{max}	5825	-	5834.40	5725	5875	Pass
T _{max} V _{min}	5825	-	5834.40	5725	5875	Pass

Frequency Range (MHz)						
Modulation Mode	VHT40					
Condition	Freq. (MHz)	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)	Results
T _{nom} V _{nom}	5755	5736.47	-	5725	5875	Pass
T _{min} V _{max}	5755	5736.69	-	5725	5875	Pass
T _{min} V _{min}	5755	5736.69	-	5725	5875	Pass
T _{max} V _{max}	5755	5736.75	-	5725	5875	Pass
T _{max} V _{min}	5755	5736.75	-	5725	5875	Pass
T _{nom} V _{nom}	5795	-	5813.31	5725	5875	Pass
T _{min} V _{max}	5795	-	5813.27	5725	5875	Pass
T _{min} V _{min}	5795	-	5813.27	5725	5875	Pass
T _{max} V _{max}	5795	-	5813.50	5725	5875	Pass
T _{max} V _{min}	5795	-	5813.50	5725	5875	Pass

Frequency Range (MHz)						
Modulation Mode	VHT80					
Condition	Freq. (MHz)	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)	Results
T _{nom} V _{nom}	5775	5736.46	-	5725	5875	Pass
T _{min} V _{max}	5775	5736.68	-	5725	5875	Pass
T _{min} V _{min}	5775	5736.68	-	5725	5875	Pass
T _{max} V _{max}	5775	5736.83	-	5725	5875	Pass
T _{max} V _{min}	5775	5736.83	-	5725	5875	Pass

Occupied Bandwidth (MHz)		
Modulation Mode	Frequency (MHz)	99% Bandwidth (MHz)
11a	5745	16.49
11a	5785	16.48
11a	5825	16.54
VHT20	5745	17.35
VHT20	5785	17.29
VHT20	5825	17.42
VHT40	5755	36.09
VHT40	5795	36.08
VHT80	5775	75.79

3.3 Transmitter Unwanted Emissions in the Spurious Domain

3.3.1 Limit of Transmitter Unwanted Emissions in the Spurious Domain

Limit for Radiated Spurious Emission

Frequency ranges / State	47 MHz to 74 MHz 87,5 MHz to 108 MHz 174 MHz to 230 MHz 470 MHz to 862 MHz	Other frequencies $\leq 1\,000$ MHz	Frequencies > 1 000 MHz
Operating	-54 dBm	-36 dBm	-30 dBm
Standby	-57 dBm	-57 dBm	-47 dBm

Limit for Conducted Spurious Emission

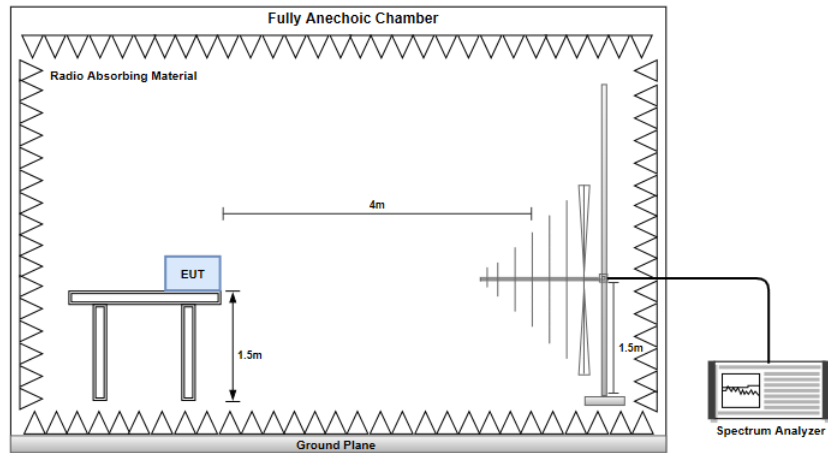
Frequency ranges / State	47 MHz to 74 MHz 87,5 MHz to 108 MHz 174 MHz to 230 MHz 470 MHz to 862 MHz	Other frequencies $\leq 1\,000$ MHz	Frequencies > 1 000 MHz
Operating	-57.01 dBm	-39.01 dBm	-33.01 dBm
Standby	-60.01 dBm	-60.01 dBm	-50.01 dBm

3.3.2 Test Procedures

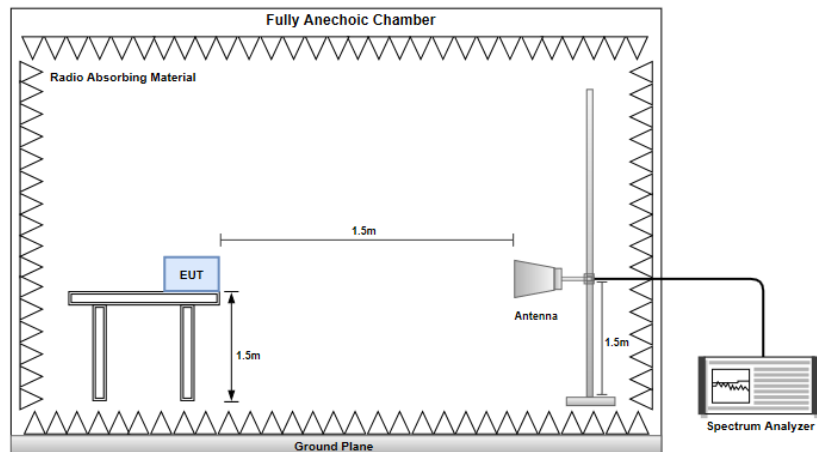
Reference to 4.2.4.3 of EN 300 440 V2.1.1 (2017-03).

3.3.3 Test Setup

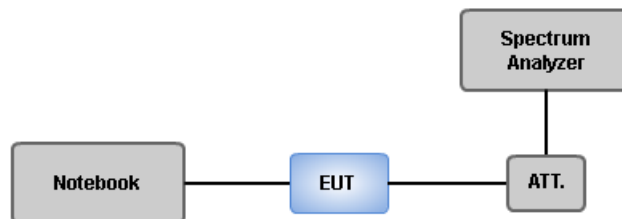
Below 1GHz



Above 1 GHz

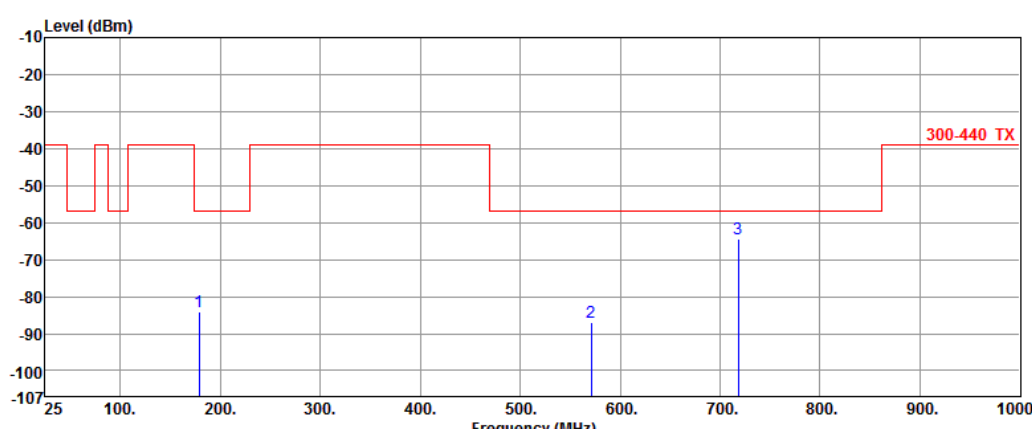


Conducted Emission



3.3.4 Transmitter Conducted Unwanted Emissions (Below 1GHz)

Modulation	11a	Test Freq. (MHz)	5745
Antenna Port	0		

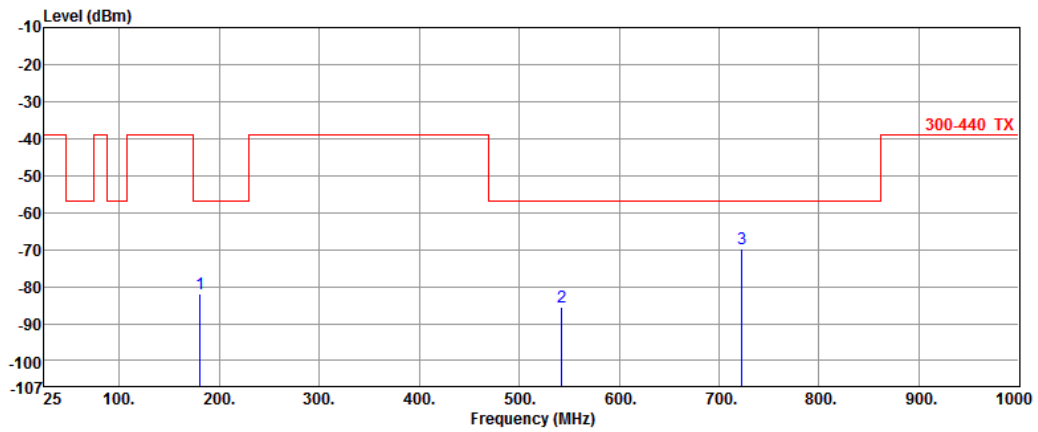


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	179.05	-84.08	-57.01	-27.07	0.00	-84.08
2	571.00	-86.98	-57.01	-29.97	0.00	-86.98
3	718.23	-64.31	-57.01	-7.30	0.00	-64.31

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11a	Test Freq. (MHz)	5785
Antenna Port	0		

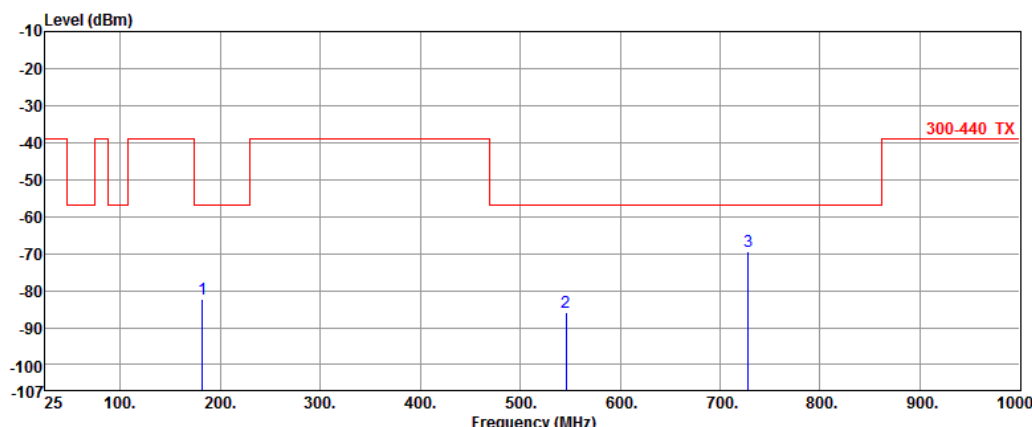


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	181.00	-81.83	-57.01	-24.82	0.00	-81.83
2	542.73	-85.49	-57.01	-28.48	0.00	-85.49
3	723.10	-69.86	-57.01	-12.85	0.00	-69.86

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11a	Test Freq. (MHz)	5825
Antenna Port	0		

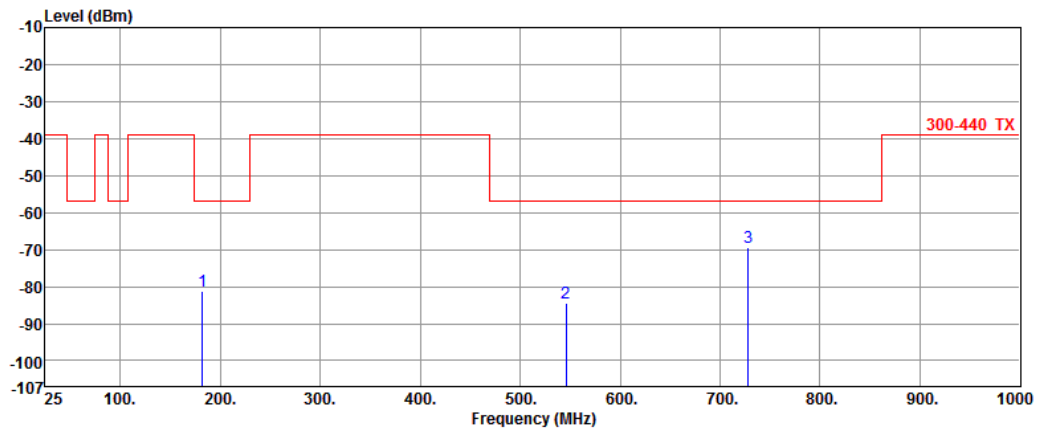


Freq.	Measured value	Limit	Margin	Factor	Reading	
MHz	dBm	dBm	dB	dB	dBm	
1	181.98	-82.17	-57.01	-25.16	0.00	-82.17
2	545.65	-85.94	-57.01	-28.93	0.00	-85.94
3	727.98	-69.51	-57.01	-12.50	0.00	-69.51

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT20	Test Freq. (MHz)	5745
Antenna Port	0		

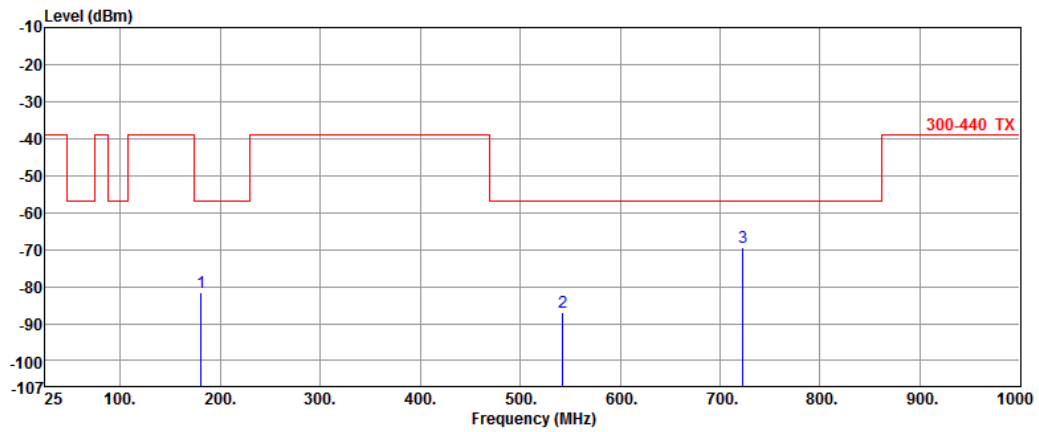


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	181.98	-81.31	-57.01	-24.30	0.00	-81.31
2	545.65	-84.38	-57.01	-27.37	0.00	-84.38
3	727.98	-69.44	-57.01	-12.43	0.00	-69.44

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT20	Test Freq. (MHz)	5785
Antenna Port	0		

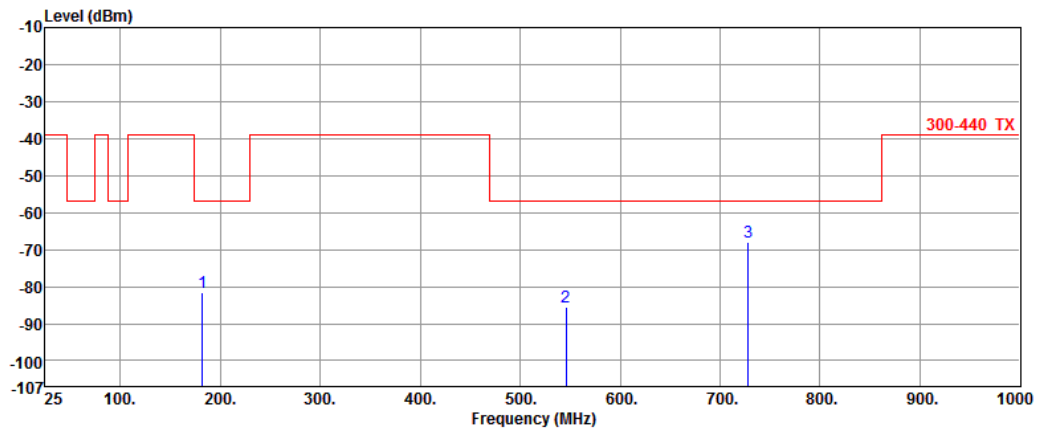


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	181.00	-81.69	-57.01	-24.68	0.00	-81.69
2	542.73	-86.84	-57.01	-29.83	0.00	-86.84
3	723.10	-69.33	-57.01	-12.32	0.00	-69.33

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT20	Test Freq. (MHz)	5825
Antenna Port	0		

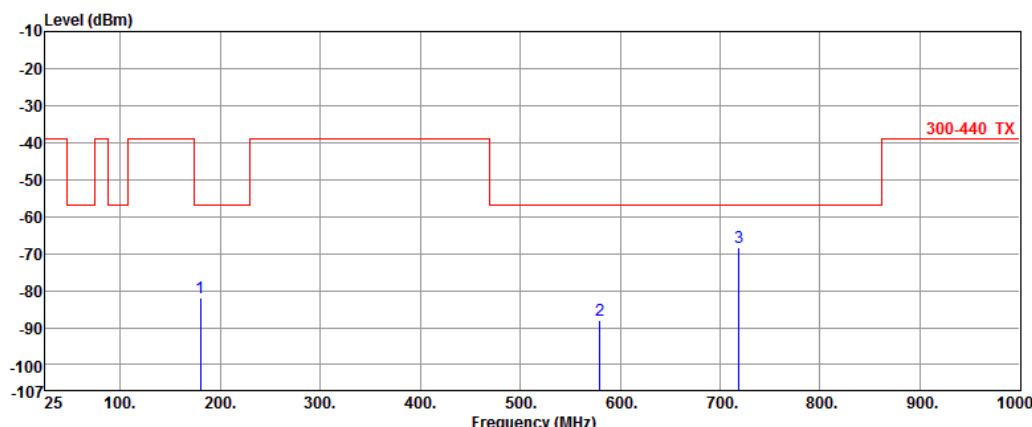


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	181.98	-81.56	-57.01	-24.55	0.00	-81.56
2	545.65	-85.66	-57.01	-28.65	0.00	-85.66
3	727.98	-68.14	-57.01	-11.13	0.00	-68.14

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT40	Test Freq. (MHz)	5755
Antenna Port	0		



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	180.03	-81.95	-57.01	-24.94	0.00	-81.95
2	579.78	-88.00	-57.01	-30.99	0.00	-88.00
3	719.20	-68.30	-57.01	-11.29	0.00	-68.30

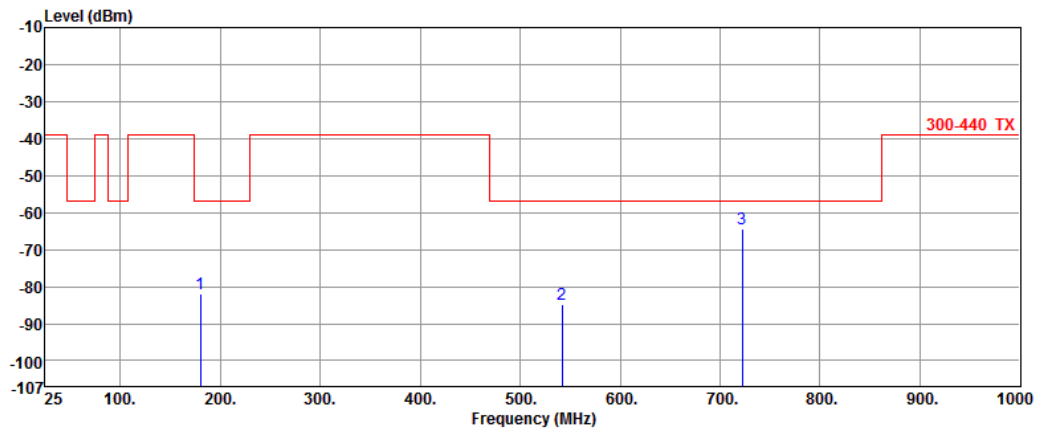
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT40	Test Freq. (MHz)	5795
Antenna Port	0		

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Modulation	VHT80	Test Freq. (MHz)	5775
Antenna Port	0		

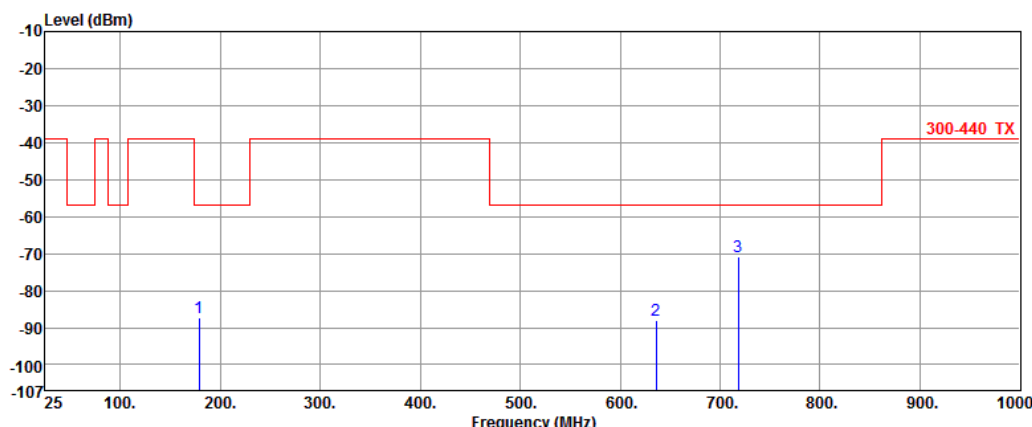


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	180.03	-82.02	-57.01	-25.01	0.00	-82.02
2	541.75	-84.94	-57.01	-27.93	0.00	-84.94
3	722.13	-64.48	-57.01	-7.47	0.00	-64.48

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11a	Test Freq. (MHz)	5745
Antenna Port	1		

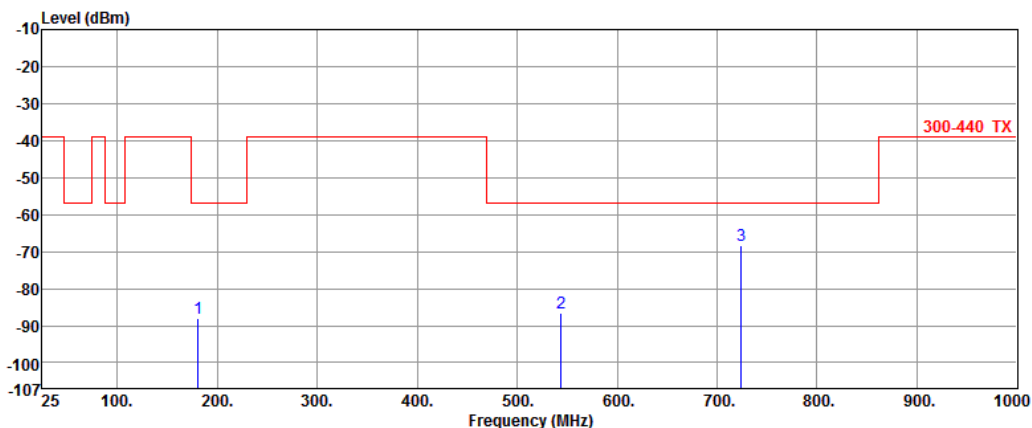


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	179.05	-87.47	-57.01	-30.46	0.00	-87.47
2	636.33	-88.20	-57.01	-31.19	0.00	-88.20
3	718.23	-70.95	-57.01	-13.94	0.00	-70.95

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

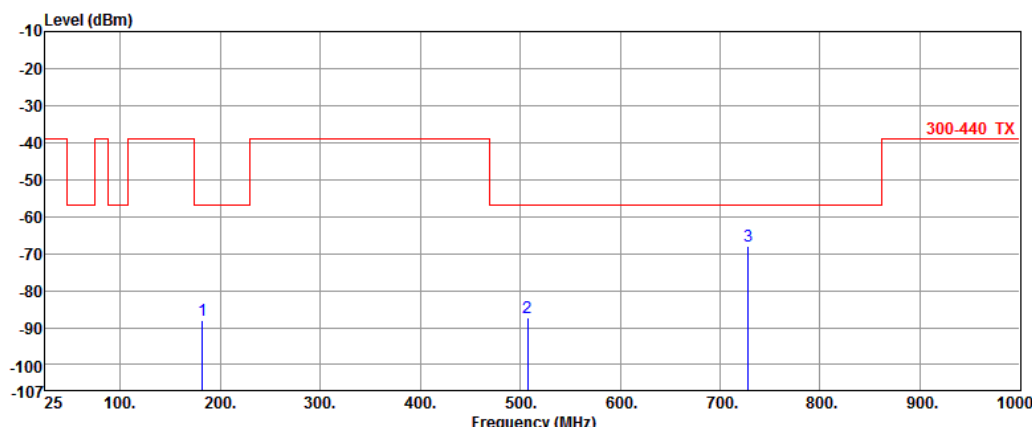
Modulation	11a	Test Freq. (MHz)	5785
Antenna Port	1		



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	181.00	-88.15	-57.01	-31.14	0.00	-88.15
2	543.70	-86.69	-57.01	-29.68	0.00	-86.69
3	724.08	-68.29	-57.01	-11.28	0.00	-68.29

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11a	Test Freq. (MHz)	5825
Antenna Port	1		

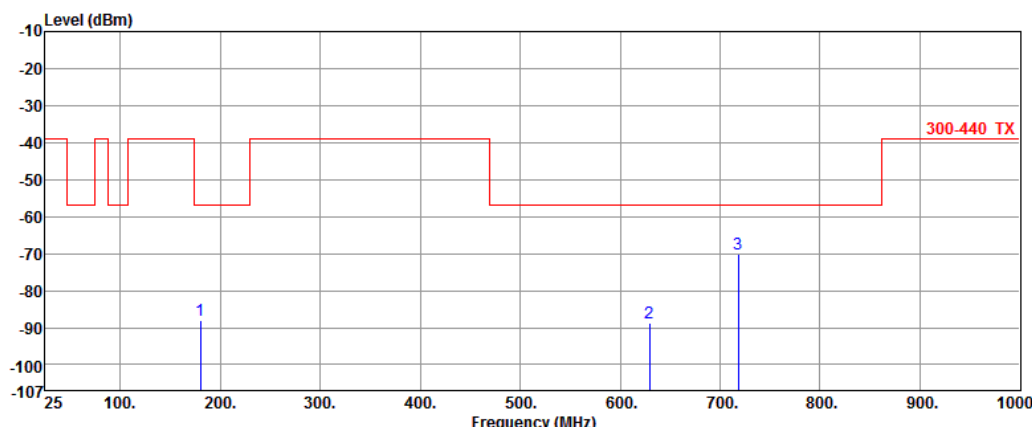


Freq.	Measured value	Limit	Margin	Factor	Reading	
MHz	dBm	dBm	dB	dB	dBm	
1	181.98	-88.08	-57.01	-31.07	0.00	-88.08
2	507.63	-87.30	-57.01	-30.29	0.00	-87.30
3	727.98	-67.89	-57.01	-10.88	0.00	-67.89

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT20	Test Freq. (MHz)	5745
Antenna Port	1		

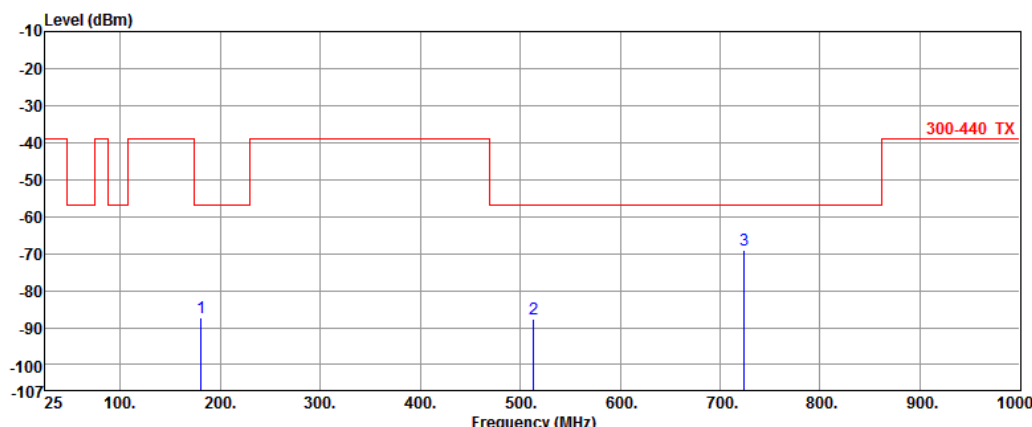


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	180.03	-88.08	-57.01	-31.07	0.00	-88.08
2	629.50	-88.85	-57.01	-31.84	0.00	-88.85
3	718.23	-70.31	-57.01	-13.30	0.00	-70.31

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT20	Test Freq. (MHz)	5785
Antenna Port	1		



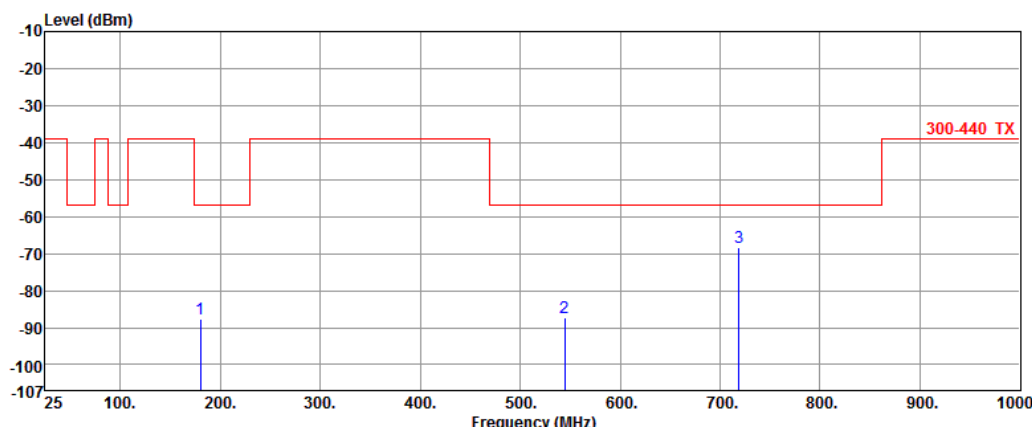
	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	181.00	-87.39	-57.01	-30.38	0.00	-87.39
2	513.48	-87.73	-57.01	-30.72	0.00	-87.73
3	724.08	-69.05	-57.01	-12.04	0.00	-69.05

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT20	Test Freq. (MHz)	5825
Antenna Port	1		
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Modulation	VHT40	Test Freq. (MHz)	5755
Antenna Port	1		

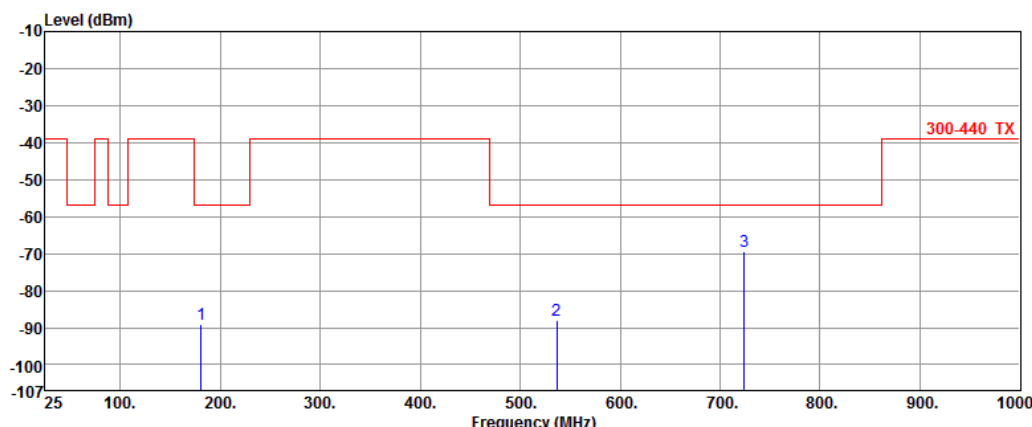


Freq.	Measured value	Limit	Margin	Factor	Reading	
MHz	dBm	dBm	dB	dB	dBm	
1	180.03	-87.78	-57.01	-30.77	0.00	-87.78
2	544.68	-87.42	-57.01	-30.41	0.00	-87.42
3	719.20	-68.38	-57.01	-11.37	0.00	-68.38

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT40	Test Freq. (MHz)	5795
Antenna Port	1		

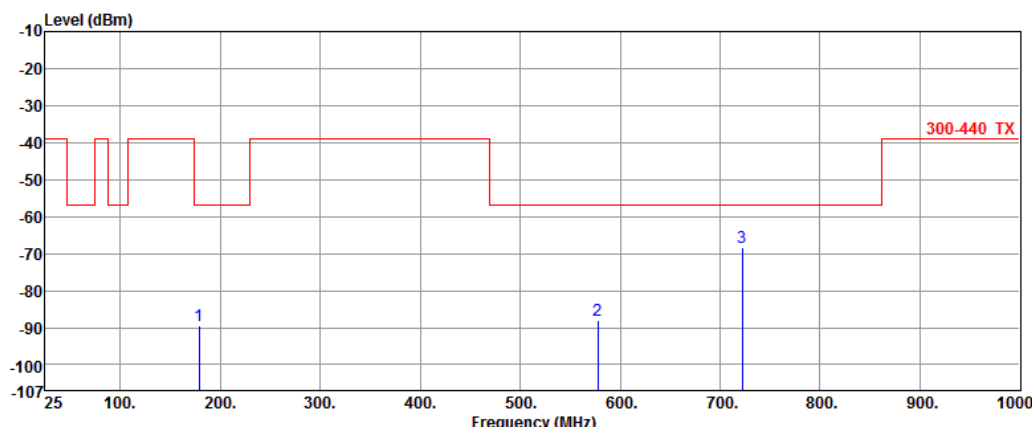


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	181.00	-89.15	-57.01	-32.14	0.00	-89.15
2	536.88	-88.18	-57.01	-31.17	0.00	-88.18
3	724.08	-69.24	-57.01	-12.23	0.00	-69.24

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT80	Test Freq. (MHz)	5775
Antenna Port	1		



Freq.	Measured value	Limit	Margin	Factor	Reading	
MHz	dBm	dBm	dB	dB	dBm	
1	179.05	-89.63	-57.01	-32.62	0.00	-89.63
2	577.83	-87.99	-57.01	-30.98	0.00	-87.99
3	722.13	-68.19	-57.01	-11.18	0.00	-68.19

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

3.3.5 Transmitter Conducted Unwanted Emissions (Above 1GHz)

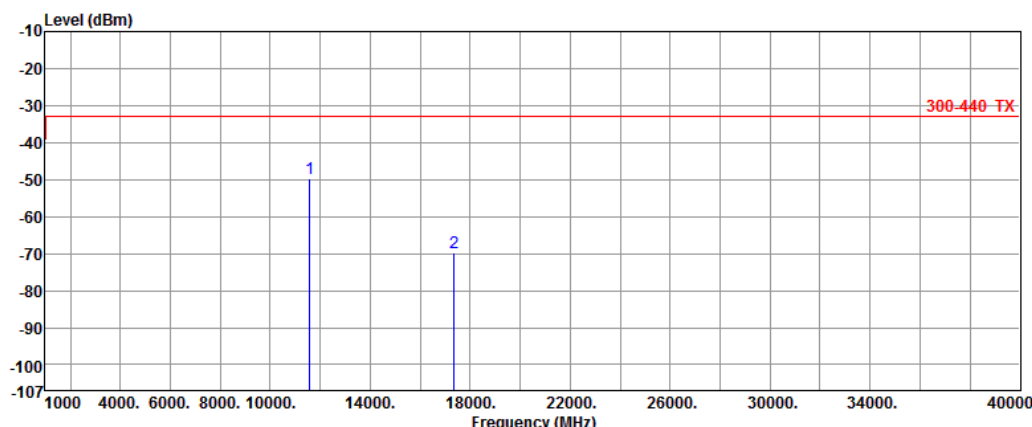
Modulation	11a	Test Freq. (MHz)	5745
Antenna Port	0		

	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	11490.20	-47.04	-33.01	-14.03	0.00	-47.04
2	17235.00	-70.71	-33.01	-37.70	0.00	-70.71

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11a	Test Freq. (MHz)	5785
Antenna Port	0		

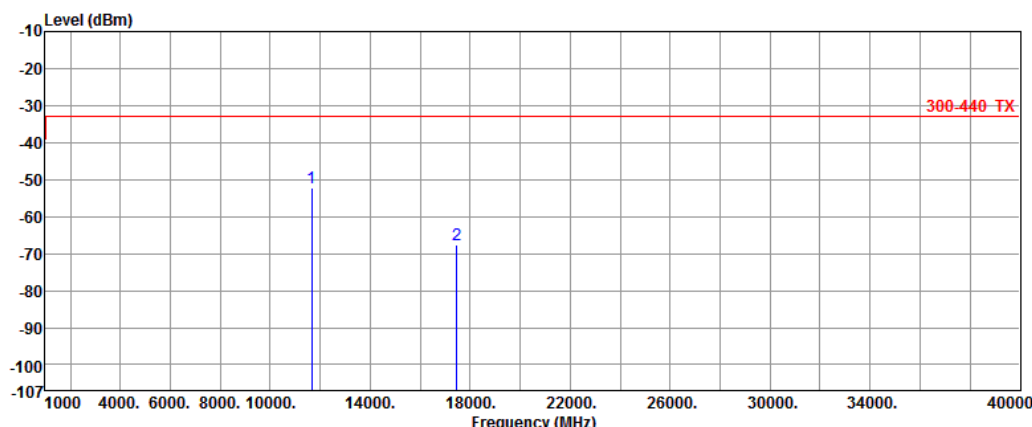


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	11570.80	-49.85	-33.01	-16.84	0.00	-49.85
2	17355.95	-69.69	-33.01	-36.68	0.00	-69.69

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11a	Test Freq. (MHz)	5825
Antenna Port	0		

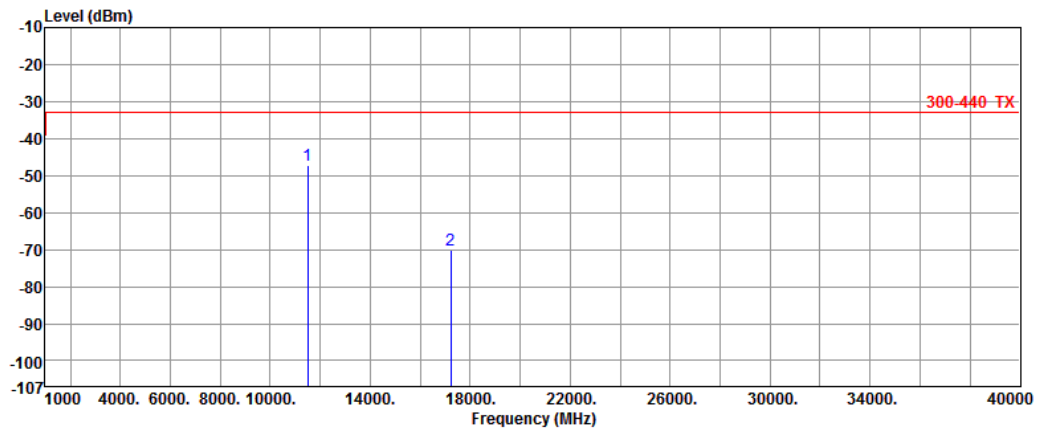


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	11650.21	-52.24	-33.01	-19.23	0.00	-52.24
2	17475.90	-67.74	-33.01	-34.73	0.00	-67.74

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT20	Test Freq. (MHz)	5745
Antenna Port	0		

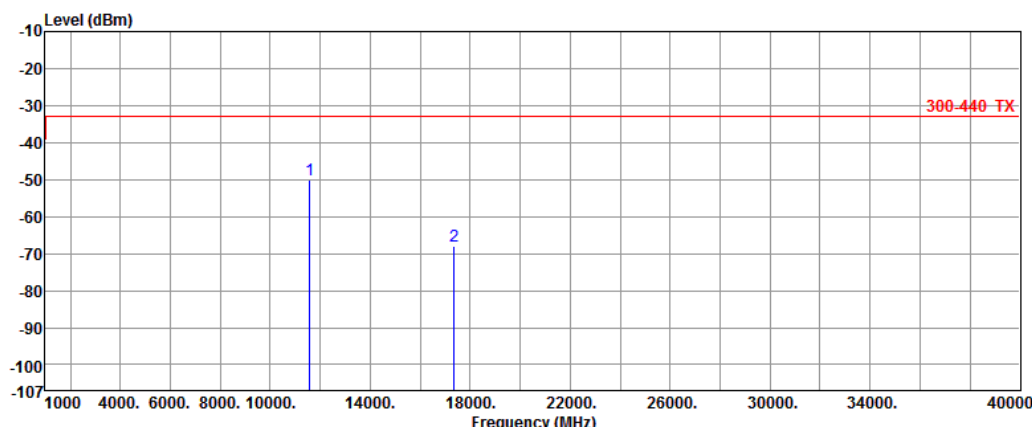


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	11490.50	-47.09	-33.01	-14.08	0.00	-47.09
2	17235.70	-70.16	-33.01	-37.15	0.00	-70.16

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT20	Test Freq. (MHz)	5785
Antenna Port	0		

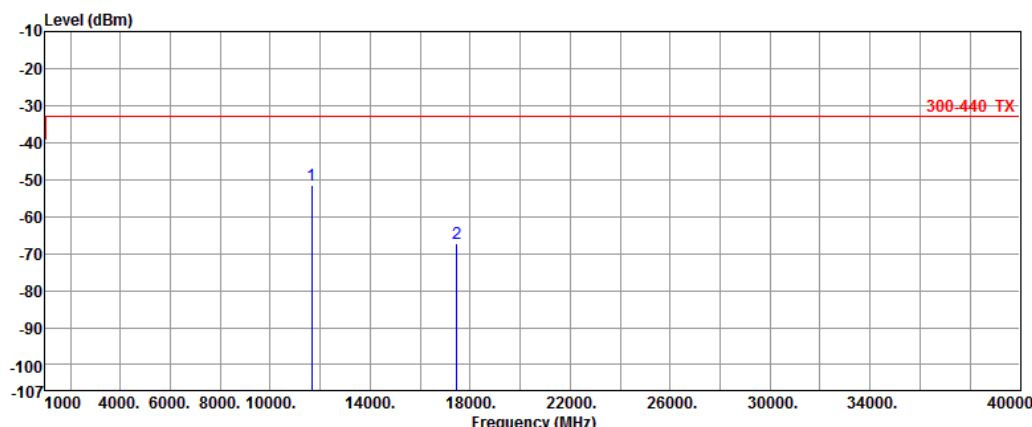


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	11570.40	-50.09	-33.01	-17.08	0.00	-50.09
2	17355.65	-68.12	-33.01	-35.11	0.00	-68.12

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT20	Test Freq. (MHz)	5825
Antenna Port	0		



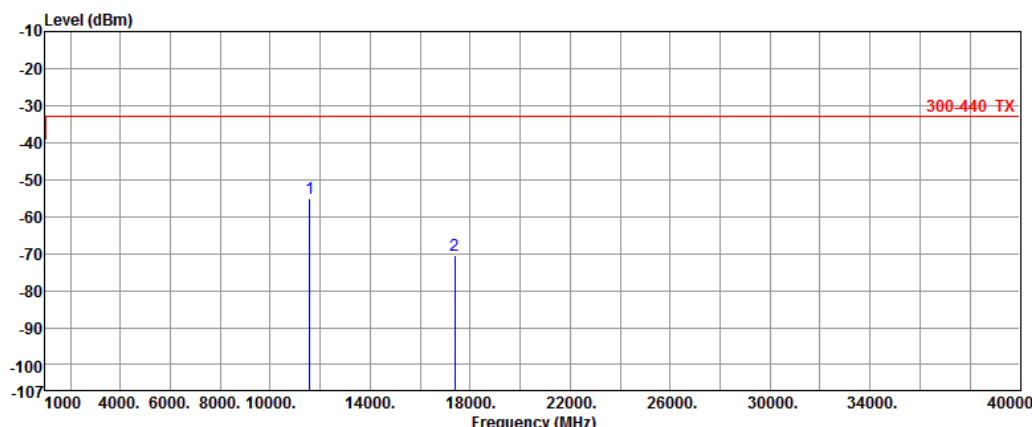
	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	11650.15	-51.45	-33.01	-18.44	0.00	-51.45
2	17475.35	-67.14	-33.01	-34.13	0.00	-67.14

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT40	Test Freq. (MHz)	5755
Antenna Port	0		
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Modulation	VHT40	Test Freq. (MHz)	5795
Antenna Port	0		



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	11590.70	-55.06	-33.01	-22.05	0.00	-55.06
2	17385.50	-70.65	-33.01	-37.64	0.00	-70.65

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT80	Test Freq. (MHz)	5775
Antenna Port	0		

	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	11550.80	-55.73	-33.01	-22.72	0.00	-55.73
2	17325.40	-71.19	-33.01	-38.18	0.00	-71.19

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

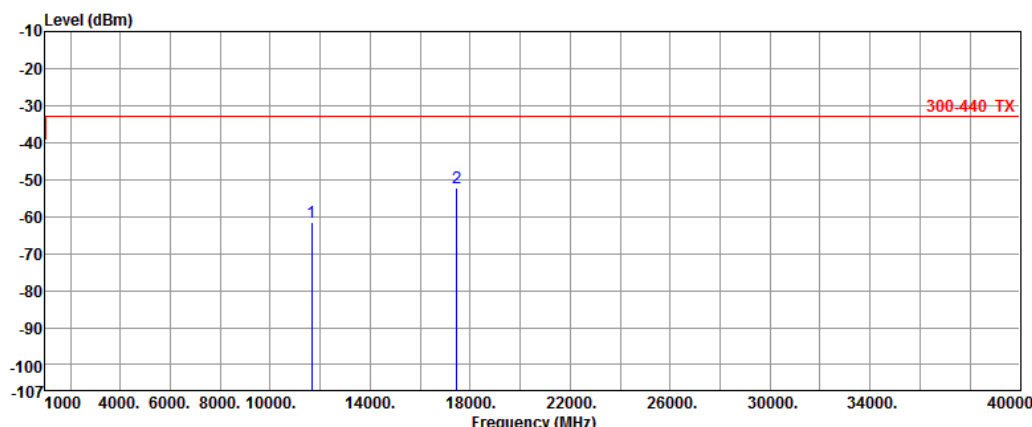
Modulation	11a	Test Freq. (MHz)	5745
Antenna Port	1		

Level (dBm)

Modulation	11a	Test Freq. (MHz)	5785
Antenna Port	1		

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Modulation	11a	Test Freq. (MHz)	5825
Antenna Port	1		

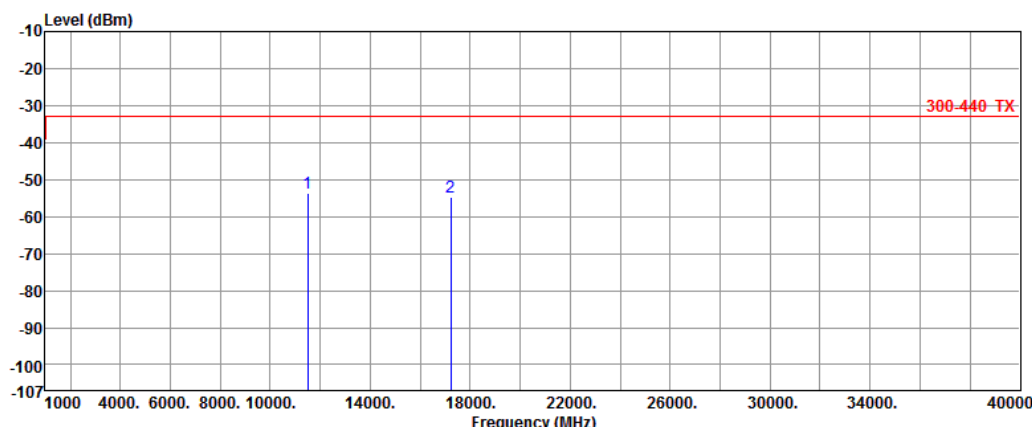


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	11650.80	-61.47	-33.01	-28.46	0.00	-61.47
2	17475.60	-52.08	-33.01	-19.07	0.00	-52.08

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT20	Test Freq. (MHz)	5745
Antenna Port	1		

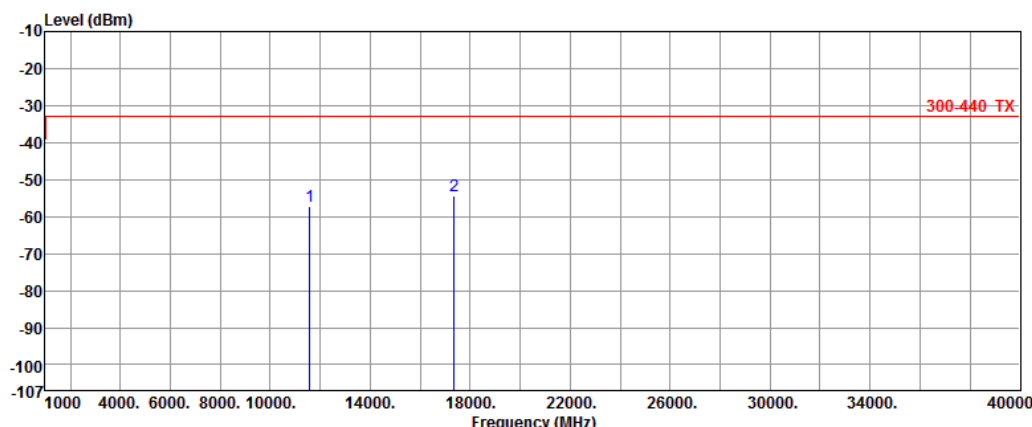


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	11490.20	-53.76	-33.01	-20.75	0.00	-53.76
2	17235.90	-54.74	-33.01	-21.73	0.00	-54.74

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT20	Test Freq. (MHz)	5785
Antenna Port	1		

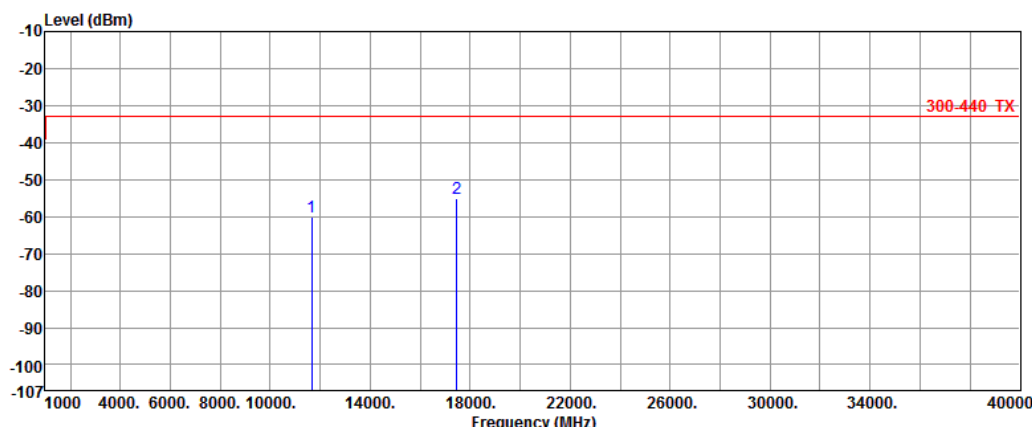


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	11570.30	-57.38	-33.01	-24.37	0.00	-57.38
2	17355.50	-54.35	-33.01	-21.34	0.00	-54.35

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT20	Test Freq. (MHz)	5825
Antenna Port	1		



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	11650.20	-60.20	-33.01	-27.19	0.00	-60.20
2	17475.40	-55.18	-33.01	-22.17	0.00	-55.18

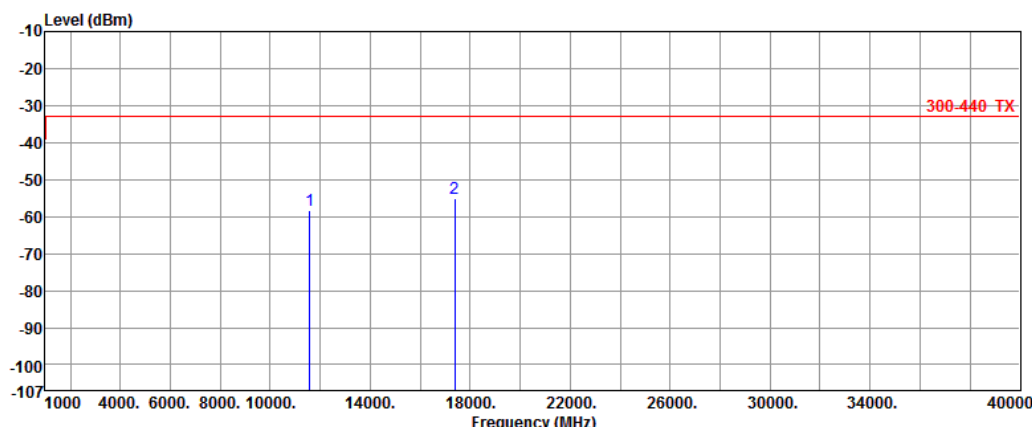
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT40	Test Freq. (MHz)	5755
Antenna Port	1		

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Modulation	VHT40	Test Freq. (MHz)	5795
Antenna Port	1		

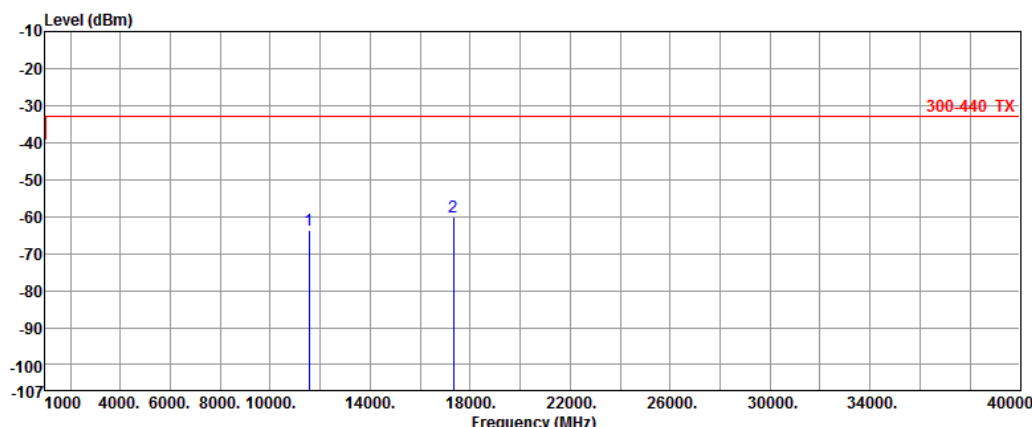


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	11590.00	-58.49	-33.01	-25.48	0.00	-58.49
2	17385.00	-55.07	-33.01	-22.06	0.00	-55.07

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT80	Test Freq. (MHz)	5775
Antenna Port	1		



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	11550.25	-63.56	-33.01	-30.55	0.00	-63.56
2	17325.25	-60.09	-33.01	-27.08	0.00	-60.09

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

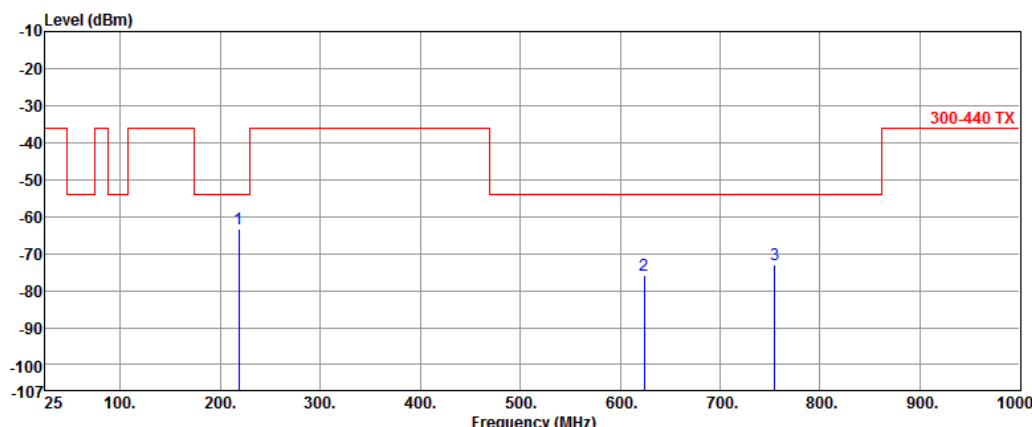
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

3.3.1 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	11a	Test Freq. (MHz)	5745
Polarization	Horizontal		

Level (dBm)

Modulation	11a	Test Freq. (MHz)	5745
Polarization	Vertical		

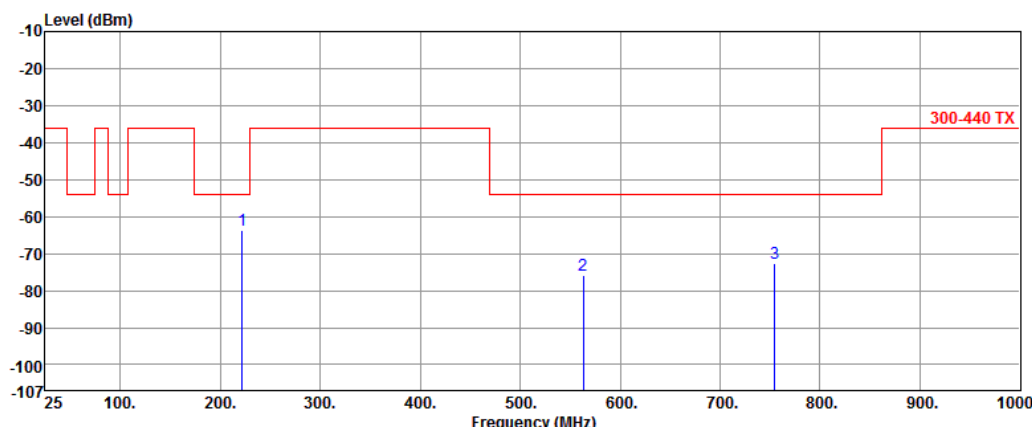


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	218.59	-63.42	-54.00	-9.42	-4.12	-59.30
2	623.86	-75.86	-54.00	-21.86	6.72	-82.58
3	754.68	-73.16	-54.00	-19.16	9.27	-82.43

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11a	Test Freq. (MHz)	5785
Polarization	Horizontal		

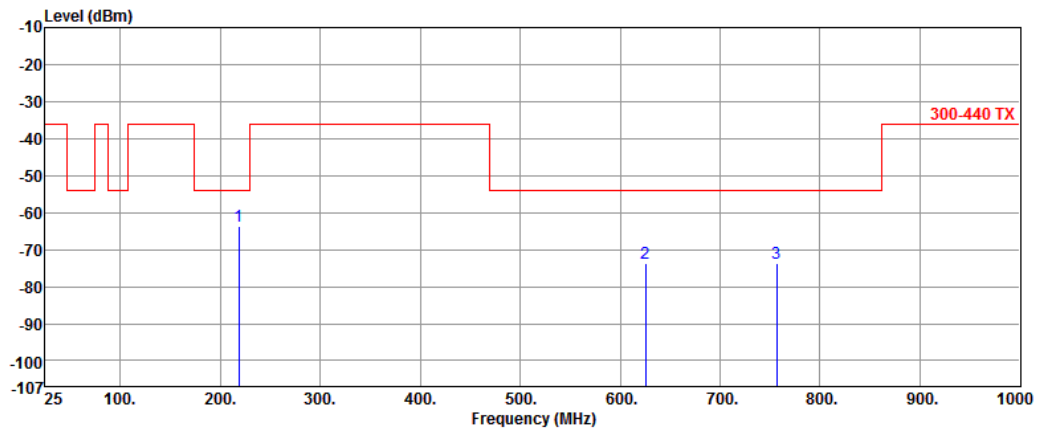


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	221.87	-63.69	-54.00	-9.69	-4.00	-59.69
2	563.18	-75.84	-54.00	-21.84	4.60	-80.44
3	754.51	-72.59	-54.00	-18.59	9.04	-81.63

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11a	Test Freq. (MHz)	5785
Polarization	Vertical		

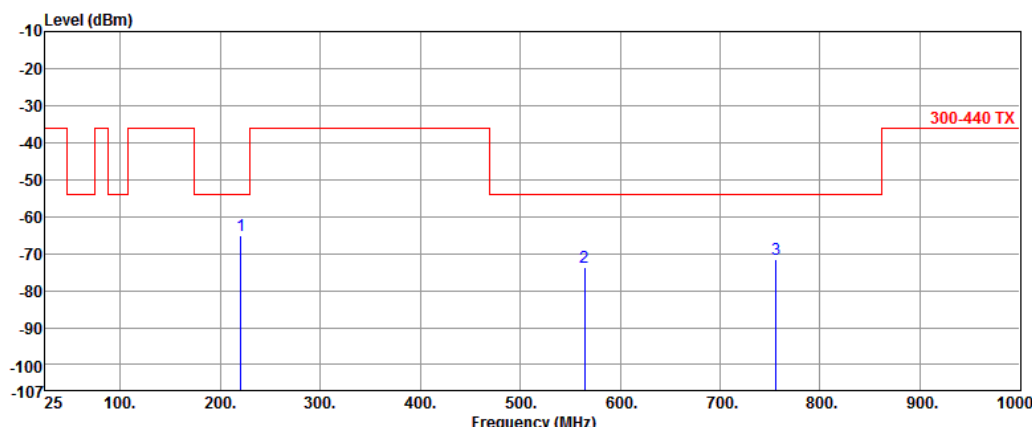


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	218.56	-63.65	-54.00	-9.65	-4.12	-59.53
2	625.56	-73.59	-54.00	-19.59	6.63	-80.22
3	756.88	-73.65	-54.00	-19.65	9.20	-82.85

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11a	Test Freq. (MHz)	5825
Polarization	Horizontal		

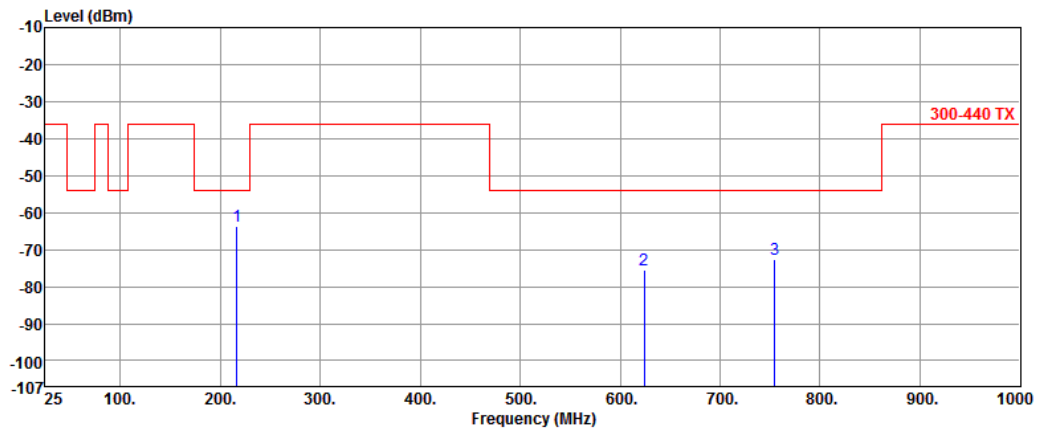


Freq.	Measured value	Limit	Margin	Factor	Reading	
MHz	dBm	dBm	dB	dB	dBm	
1	220.68	-65.05	-54.00	-11.05	-3.76	-61.29
2	564.85	-73.68	-54.00	-19.68	4.67	-78.35
3	756.39	-71.58	-54.00	-17.58	9.05	-80.63

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11a	Test Freq. (MHz)	5825
Polarization	Vertical		



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	216.86	-63.56	-54.00	-9.56	-4.06	-59.50
2	623.86	-75.45	-54.00	-21.45	6.72	-82.17
3	754.59	-72.56	-54.00	-18.56	9.28	-81.84

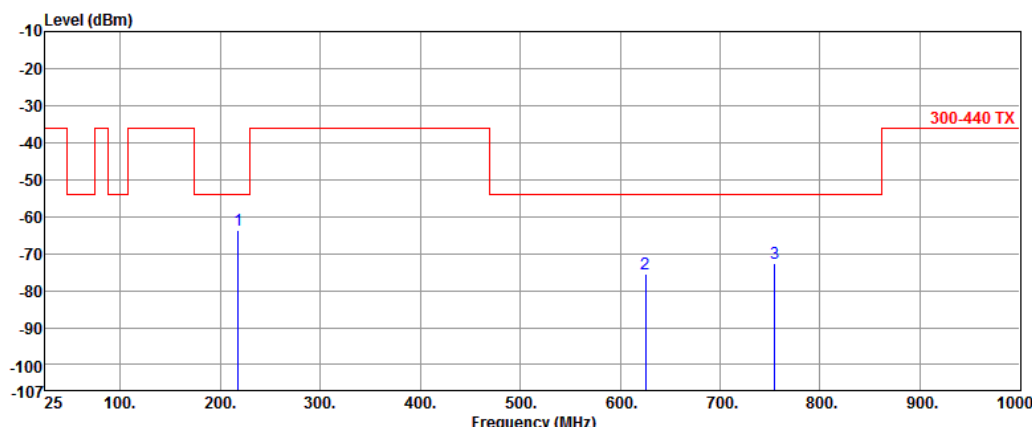
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Horizontal		

Level (dBm)

Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Vertical		

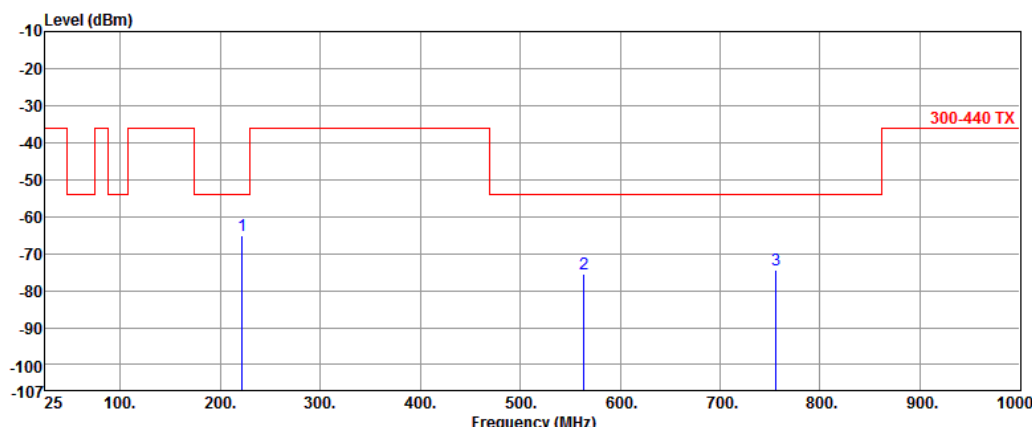


Freq.	Measured value	Limit	Margin	Factor	Reading	
MHz	dBm	dBm	dB	dB	dBm	
1	218.19	-63.55	-54.00	-9.55	-4.11	-59.44
2	625.64	-75.49	-54.00	-21.49	6.63	-82.12
3	754.58	-72.59	-54.00	-18.59	9.28	-81.87

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Horizontal		

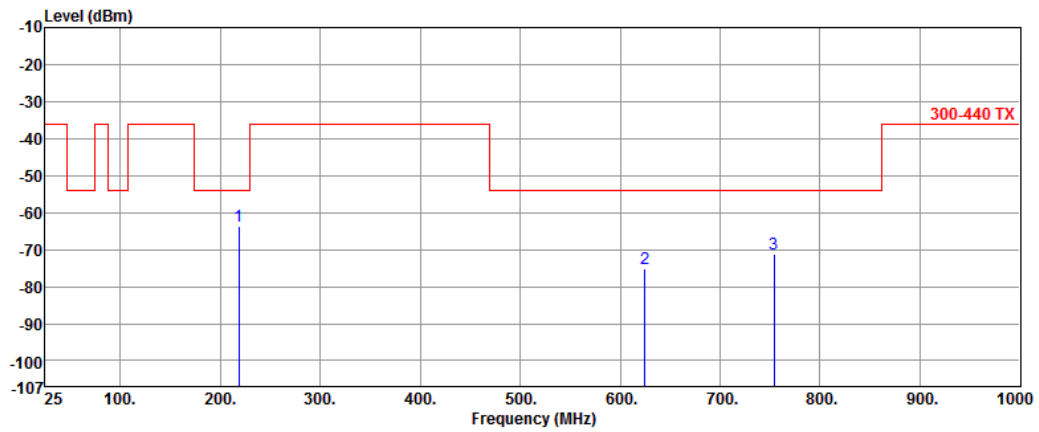


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	221.68	-65.19	-54.00	-11.19	-3.97	-61.22
2	563.68	-75.48	-54.00	-21.48	4.62	-80.10
3	756.16	-74.58	-54.00	-20.58	9.05	-83.63

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Vertical		

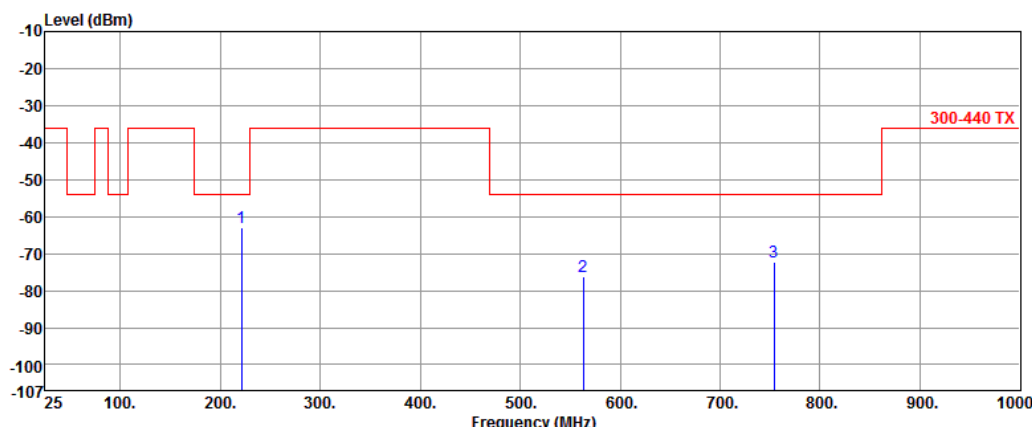


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	218.68	-63.85	-54.00	-9.85	-4.13	-59.72
2	624.86	-75.19	-54.00	-21.19	6.66	-81.85
3	754.19	-71.19	-54.00	-17.19	9.28	-80.47

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT20	Test Freq. (MHz)	5825
Polarization	Horizontal		

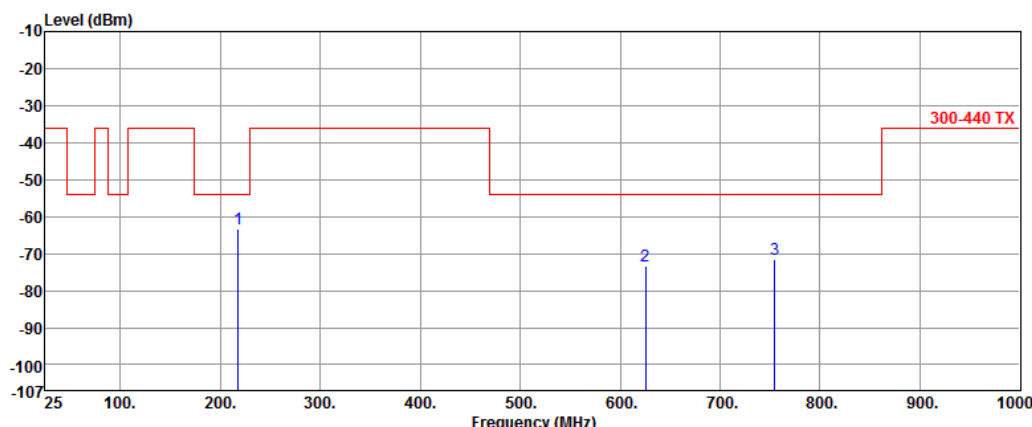


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	221.15	-63.15	-54.00	-9.15	-3.86	-59.29
2	563.19	-76.19	-54.00	-22.19	4.60	-80.79
3	754.19	-72.19	-54.00	-18.19	9.04	-81.23

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT20	Test Freq. (MHz)	5825
Polarization	Vertical		

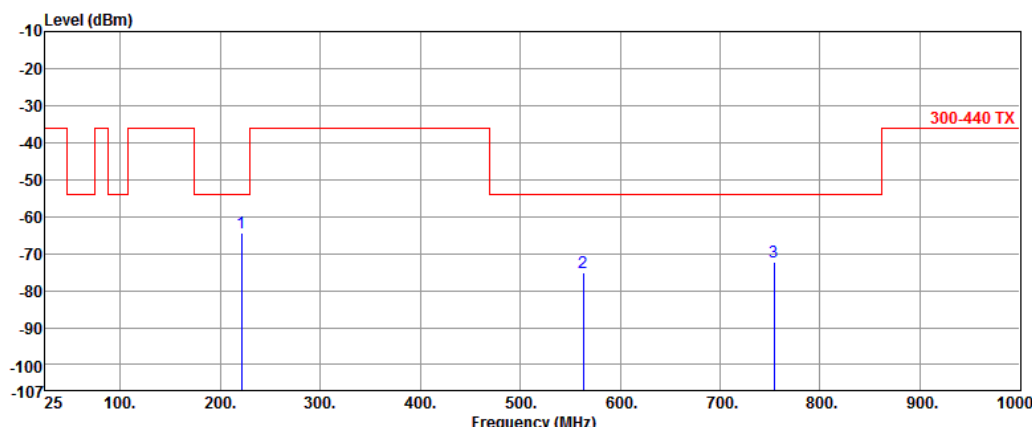


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	218.15	-63.19	-54.00	-9.19	-4.11	-59.08
2	625.48	-73.51	-54.00	-19.51	6.63	-80.14
3	754.59	-71.56	-54.00	-17.56	9.28	-80.84

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT40	Test Freq. (MHz)	5755
Polarization	Horizontal		

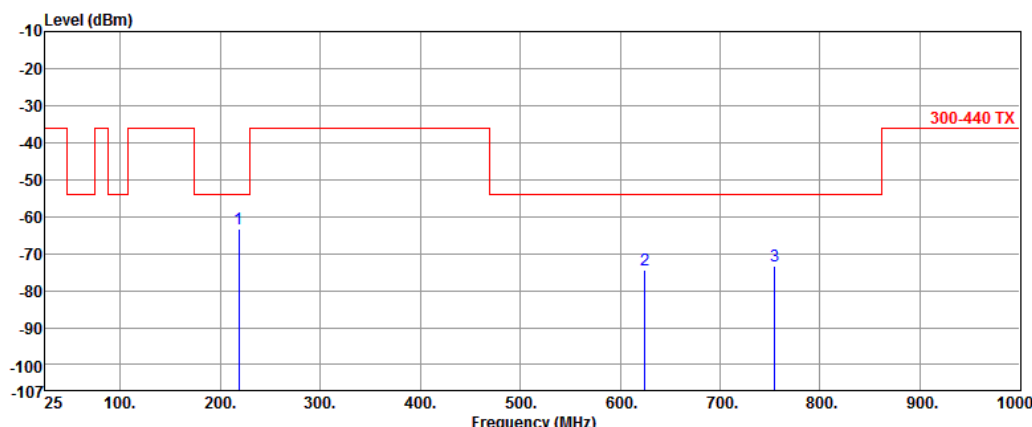


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	221.18	-64.52	-54.00	-10.52	-3.86	-60.66
2	563.19	-75.32	-54.00	-21.32	4.60	-79.92
3	754.19	-72.19	-54.00	-18.19	9.04	-81.23

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT40	Test Freq. (MHz)	5755
Polarization	Vertical		

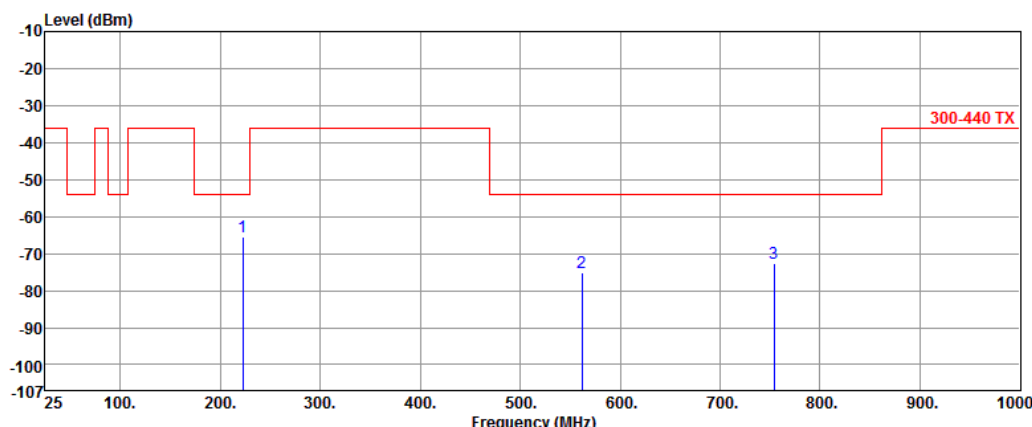


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	218.36	-63.19	-54.00	-9.19	-4.11	-59.08
2	625.15	-74.48	-54.00	-20.48	6.64	-81.12
3	754.49	-73.19	-54.00	-19.19	9.28	-82.47

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT40	Test Freq. (MHz)	5795
Polarization	Horizontal		

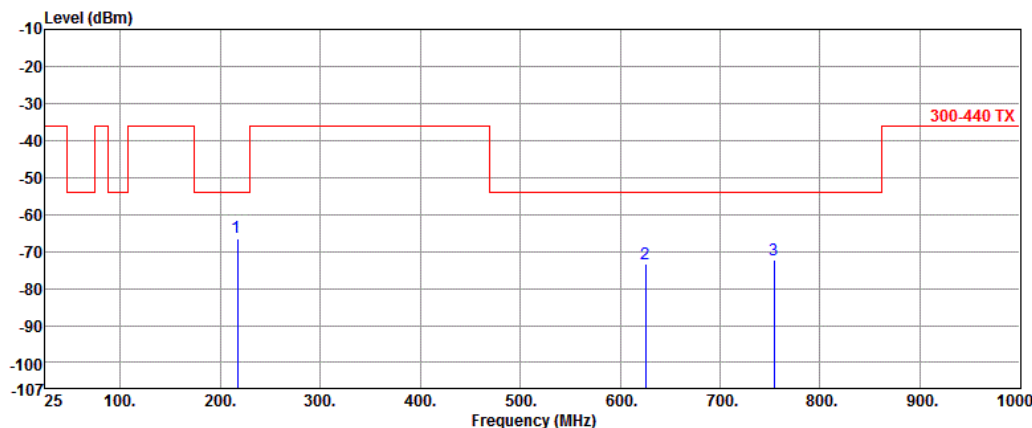


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	222.22	-65.48	-54.00	-11.48	-4.08	-61.40
2	562.15	-75.16	-54.00	-21.16	4.56	-79.72
3	754.26	-72.48	-54.00	-18.48	9.04	-81.52

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT40	Test Freq. (MHz)	5795
Polarization	Vertical		



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	217.49	-67.19	-54.00	-13.19	-4.10	-63.09
2	625.19	-73.29	-54.00	-19.29	6.64	-79.93
3	754.19	-72.16	-54.00	-18.16	9.28	-81.44

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

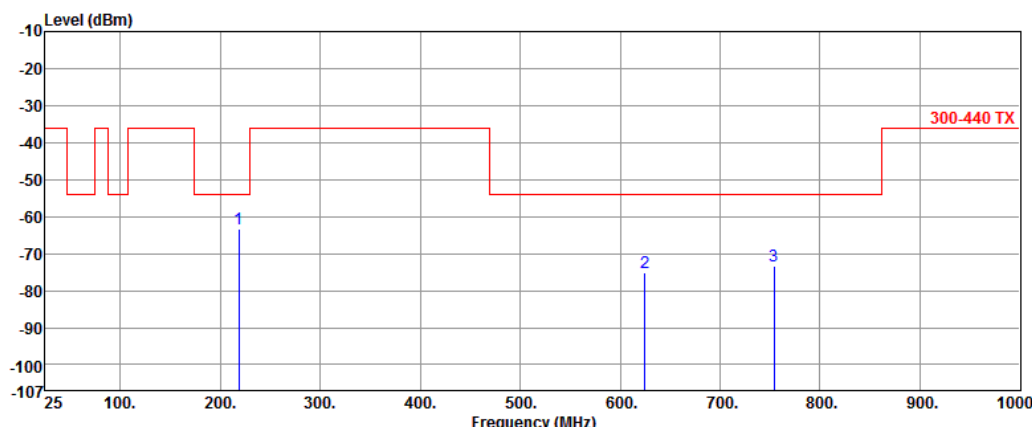
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT80	Test Freq. (MHz)	5775
Polarization	Horizontal		

Level (dBm)

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Modulation	VHT80	Test Freq. (MHz)	5775
Polarization	Vertical		



Freq.	Measured value	Limit	Margin	Factor	Reading
MHz	dBm	dBm	dB	dB	dBm
1 218.34	-63.19	-54.00	-9.19	-4.11	-59.08
2 625.15	-75.16	-54.00	-21.16	6.64	-81.80
3 754.19	-73.47	-54.00	-19.47	9.28	-82.75

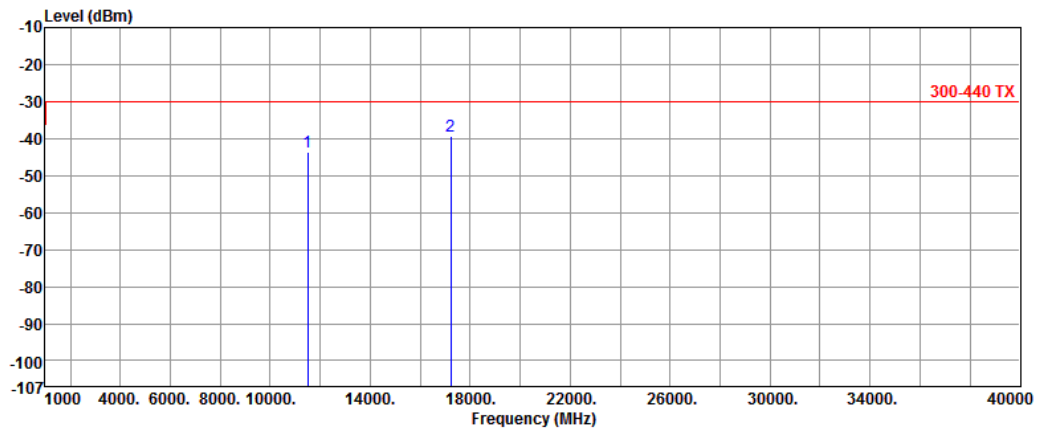
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

3.3.2 Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation	11a	Test Freq. (MHz)	5745
Polarization	Horizontal		
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Modulation	11a	Test Freq. (MHz)	5745
Polarization	Vertical		

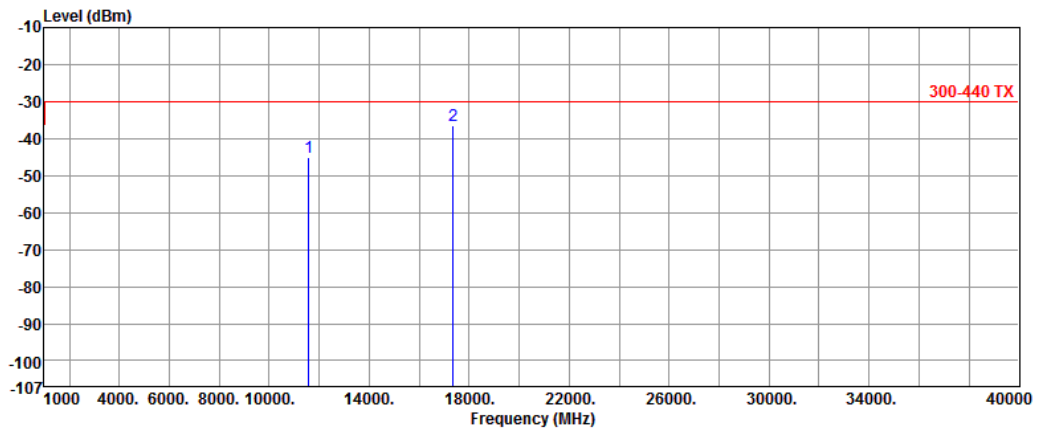


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	11490.85	-43.50	-30.00	-13.50	21.05	-64.55
2	17235.25	-39.36	-30.00	-9.36	27.39	-66.75

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11a	Test Freq. (MHz)	5785
Polarization	Horizontal		



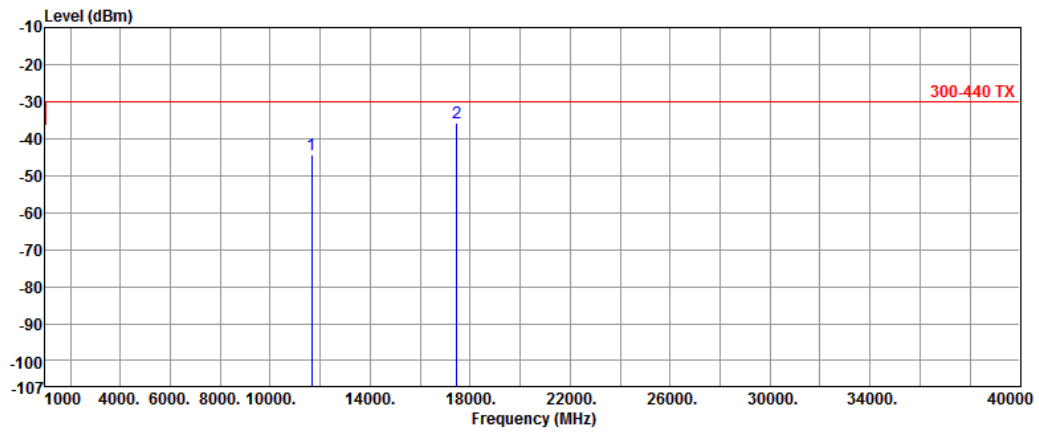
	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	11570.19	-45.05	-30.00	-15.05	21.38	-66.43
2	17354.52	-36.38	-30.00	-6.38	27.86	-64.24

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11a	Test Freq. (MHz)	5785
Polarization	Vertical		
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Modulation	11a	Test Freq. (MHz)	5825
Polarization	Horizontal		

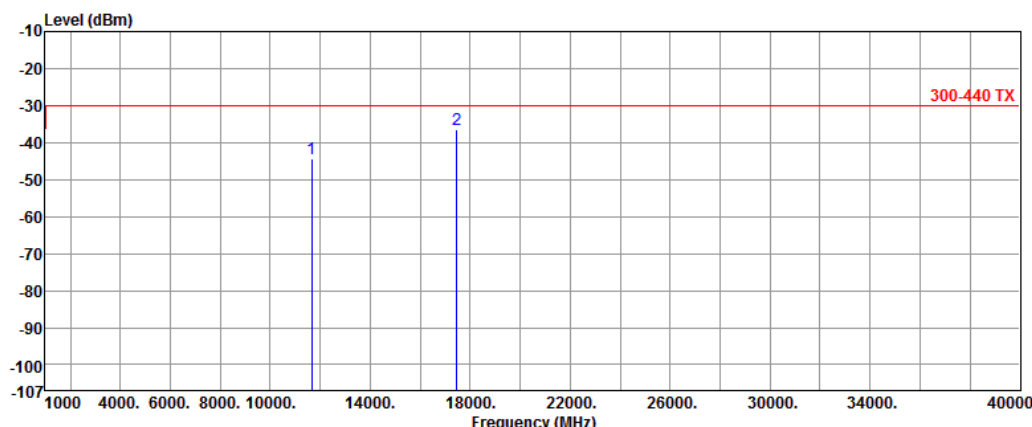


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	11650.30	-44.47	-30.00	-14.47	21.11	-65.58
2	17474.82	-35.93	-30.00	-5.93	28.62	-64.55

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11a	Test Freq. (MHz)	5825
Polarization	Vertical		

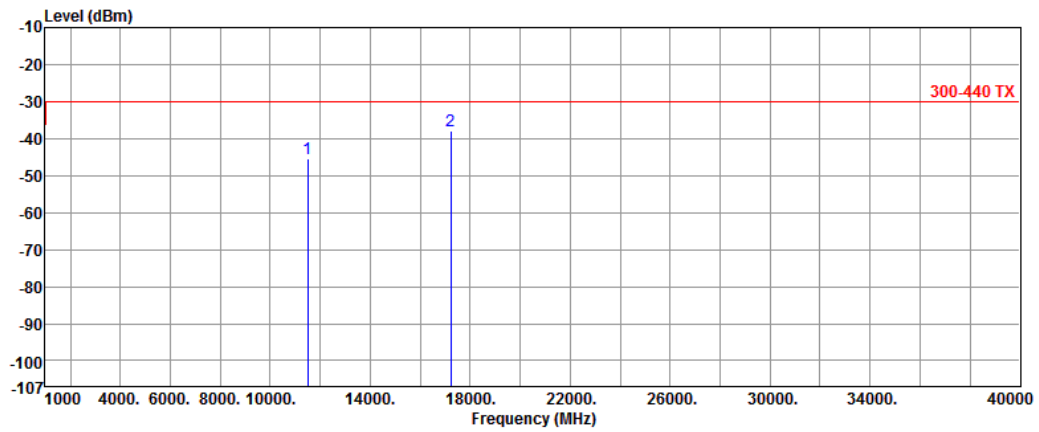


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	11650.17	-44.35	-30.00	-14.35	20.73	-65.08
2	17475.12	-36.62	-30.00	-6.62	28.61	-65.23

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Horizontal		

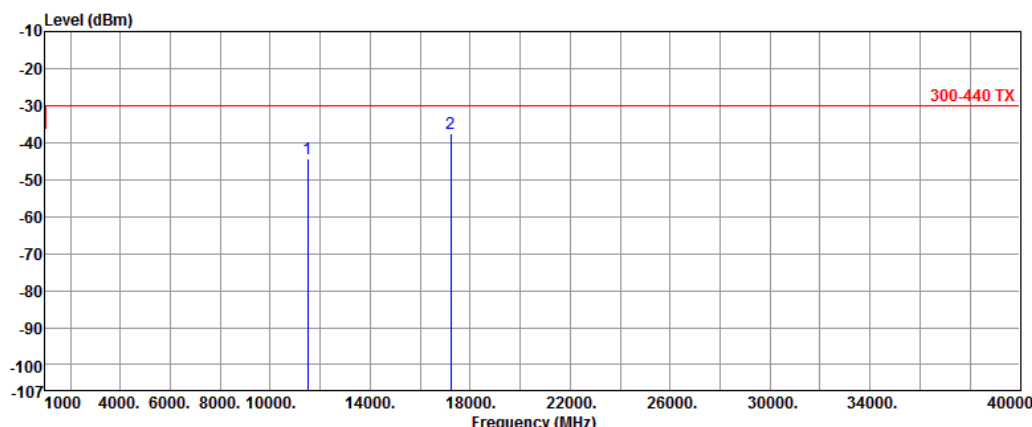


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	11489.60	-45.30	-30.00	-15.30	21.44	-66.74
2	17234.83	-38.02	-30.00	-8.02	27.11	-65.13

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Vertical		

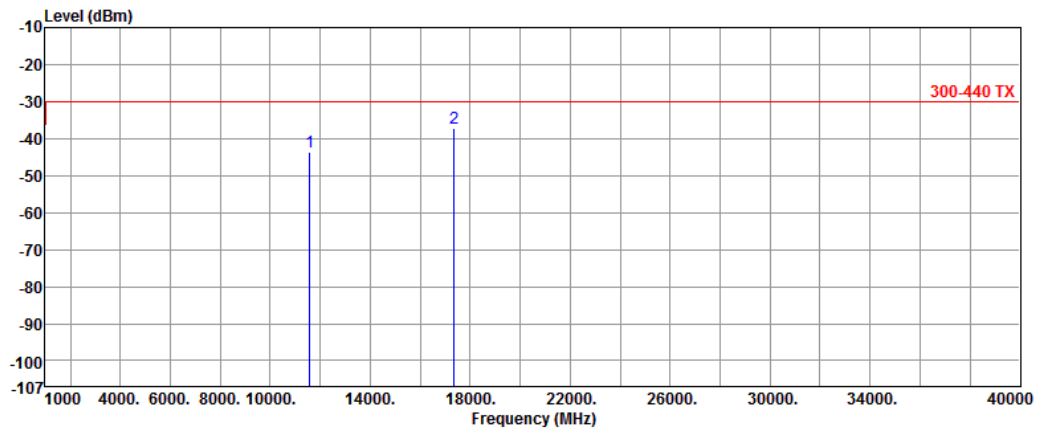


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	11489.69	-44.21	-30.00	-14.21	21.05	-65.26
2	17235.00	-37.66	-30.00	-7.66	27.39	-65.05

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Horizontal		

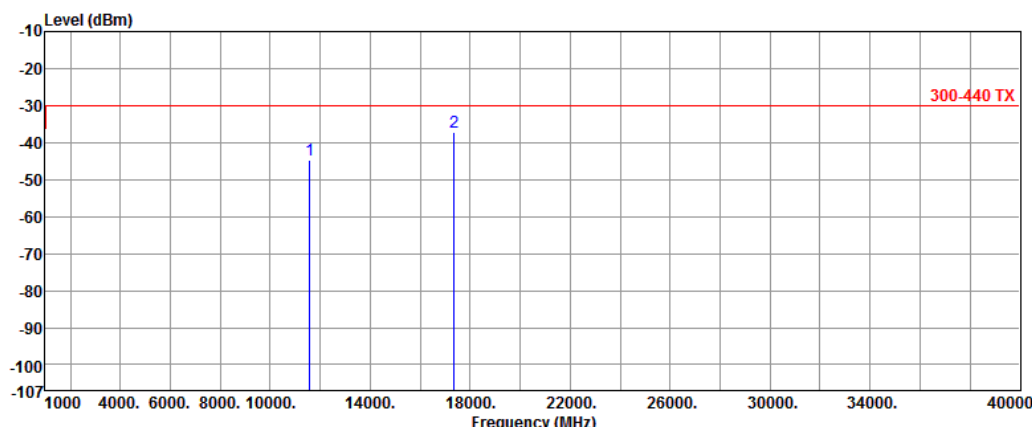


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	11569.61	-43.66	-30.00	-13.66	21.38	-65.04
2	17355.23	-37.21	-30.00	-7.21	27.86	-65.07

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Vertical		

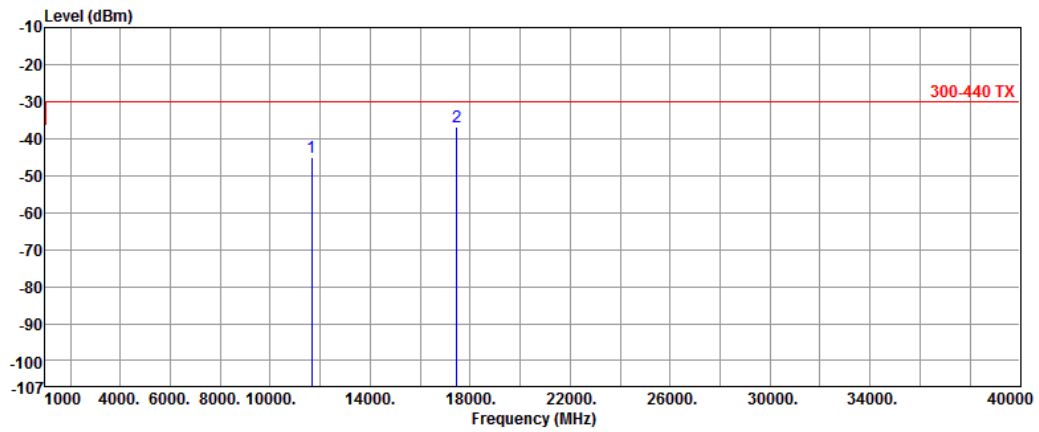


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	11570.36	-44.89	-30.00	-14.89	20.91	-65.80
2	17355.14	-37.18	-30.00	-7.18	28.10	-65.28

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT20	Test Freq. (MHz)	5825
Polarization	Horizontal		

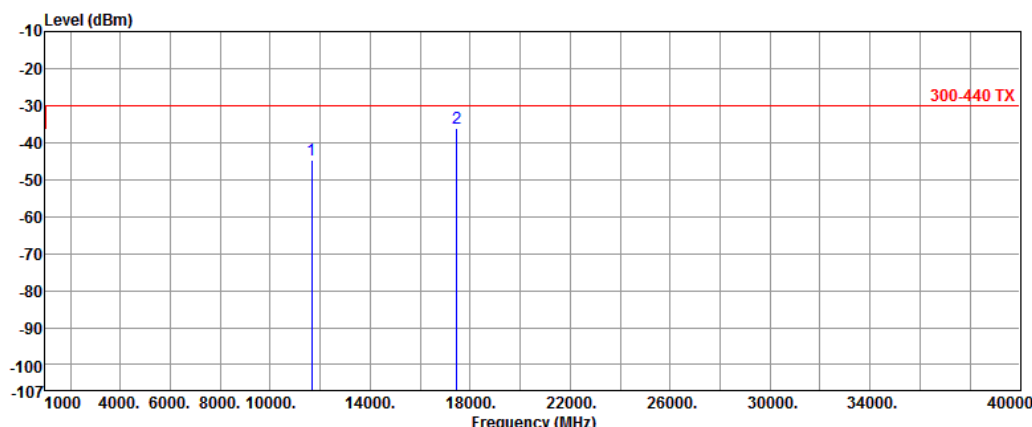


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	11649.90	-45.02	-30.00	-15.02	21.12	-66.14
2	17474.86	-36.68	-30.00	-6.68	28.62	-65.30

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT20	Test Freq. (MHz)	5825
Polarization	Vertical		

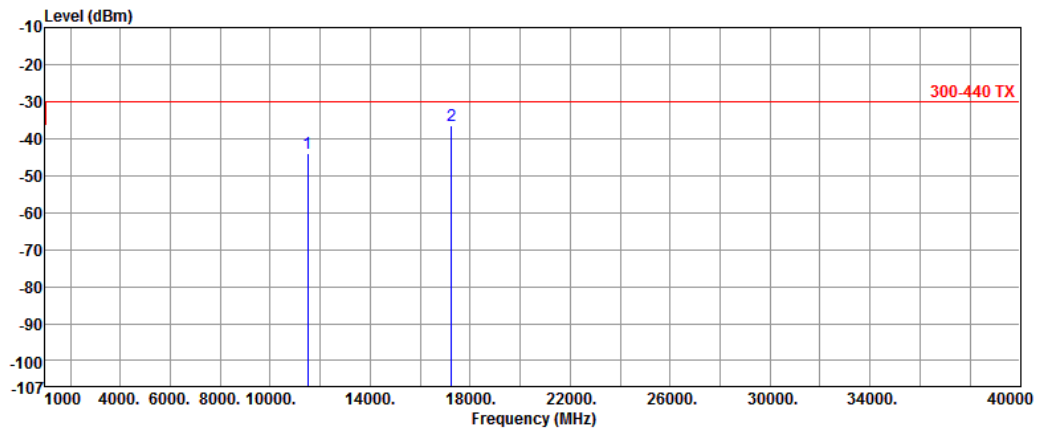


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	11650.00	-44.84	-30.00	-14.84	20.73	-65.57
2	17475.32	-36.12	-30.00	-6.12	28.61	-64.73

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT40	Test Freq. (MHz)	5755
Polarization	Horizontal		

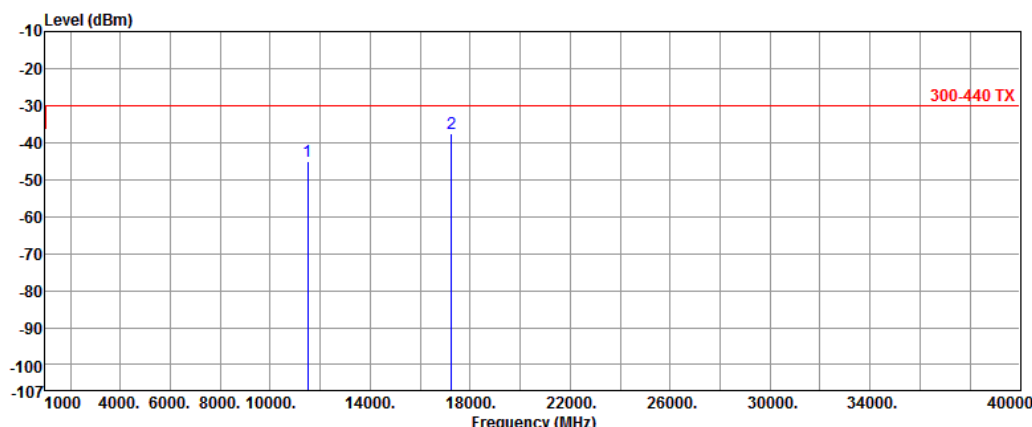


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	11509.76	-43.93	-30.00	-13.93	21.45	-65.38
2	17265.02	-36.54	-30.00	-6.54	27.34	-63.88

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT40	Test Freq. (MHz)	5755
Polarization	Vertical		

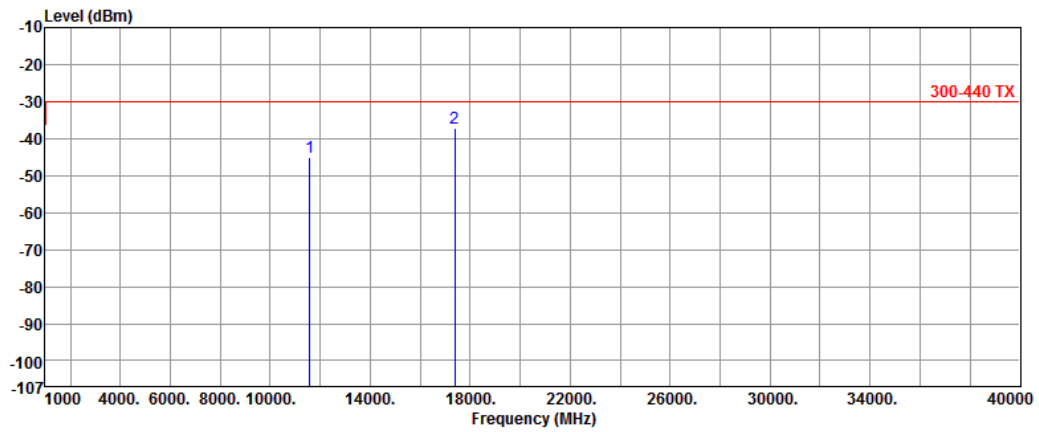


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	11509.81	-45.19	-30.00	-15.19	21.05	-66.24
2	17265.34	-37.51	-30.00	-7.51	27.57	-65.08

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT40	Test Freq. (MHz)	5795
Polarization	Horizontal		

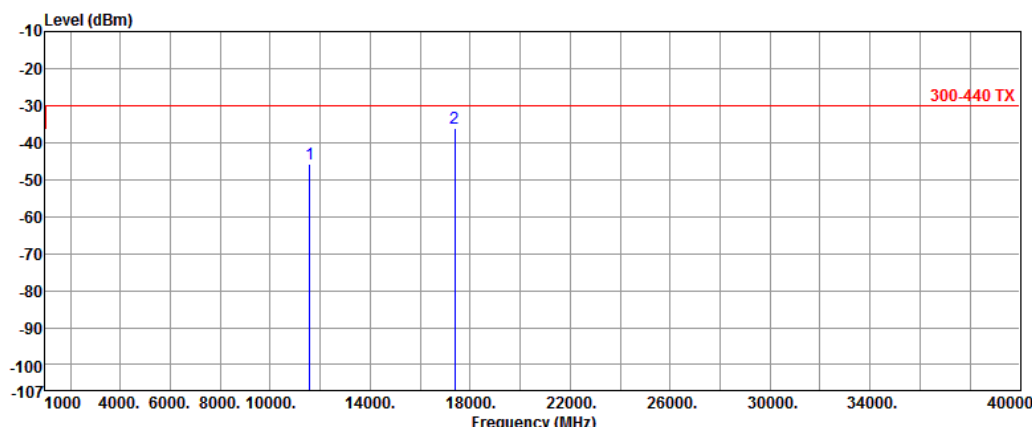


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	11590.13	-45.15	-30.00	-15.15	21.35	-66.50
2	17385.28	-37.18	-30.00	-7.18	28.01	-65.19

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT40	Test Freq. (MHz)	5795
Polarization	Vertical		

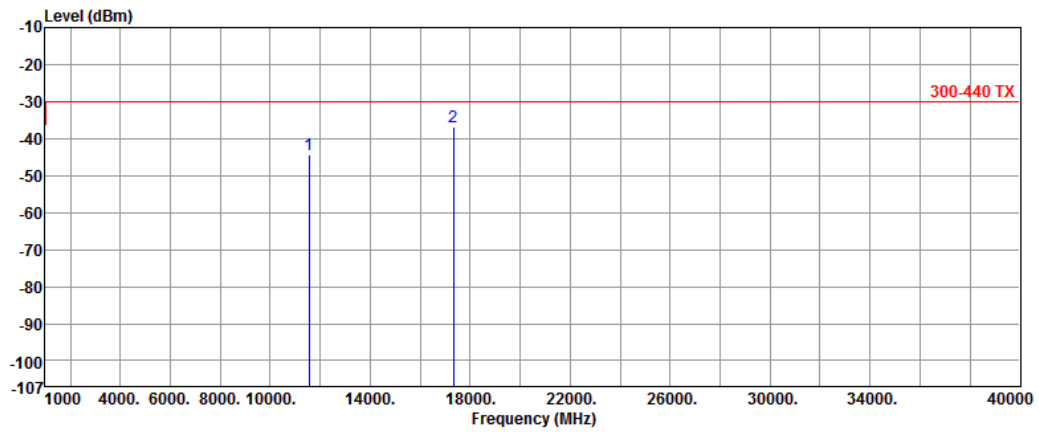


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	11589.91	-45.76	-30.00	-15.76	20.86	-66.62
2	17385.22	-36.09	-30.00	-6.09	28.28	-64.37

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT80	Test Freq. (MHz)	5775
Polarization	Vertical		



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	11549.67	-44.33	-30.00	-14.33	20.96	-65.29
2	17325.46	-36.69	-30.00	-6.69	27.93	-64.62

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

4 Receiver Test Results

4.1 Receiver Spurious Emissions

4.1.1 Limit of Receiver Spurious Emissions

Limit for Radiated Spurious Emission

Frequency Range	Maximum power (dBm)	Measurement bandwidth (kHz)
30 MHz to 1 GHz	-57	100
Above 1 GHz to 12,75 GHz	-47	1000

Limit for Conducted Spurious Emission

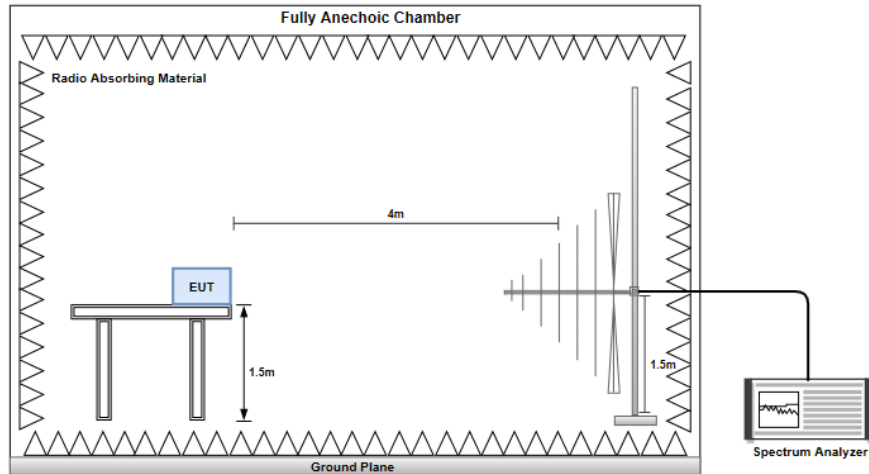
Frequency Range	Maximum power (dBm)	Measurement bandwidth (kHz)
30 MHz to 1 GHz	-60.01	100
Above 1 GHz to 12,75 GHz	-50.01	1000

4.1.2 Test Procedures

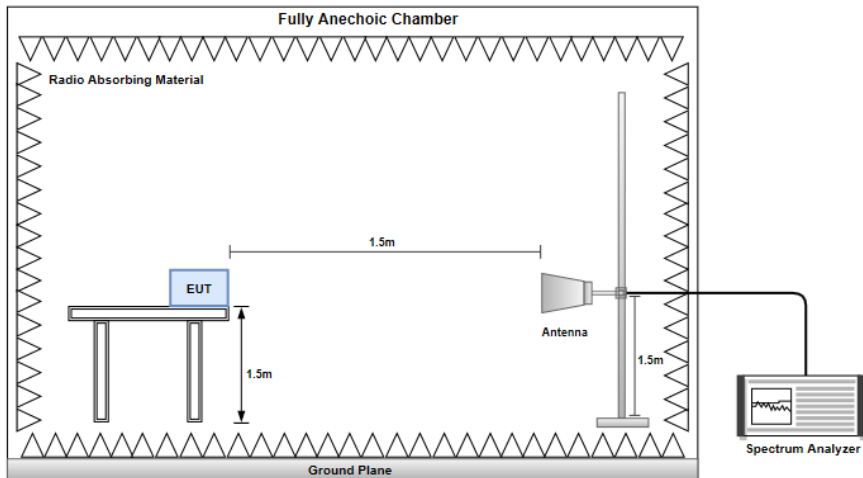
Reference to clause 4.3.5.3 of EN 300 440 V2.1.1 (2017-03).

4.1.3 Test Setup

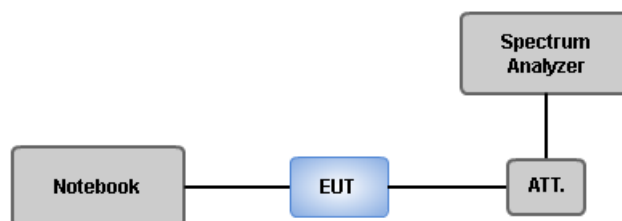
Below 1GHz



Above 1 GHz



Conducted Emission



4.1.4 Receiver Conducted Unwanted Emissions (Below 1GHz)

Modulation	11a	Test Freq. (MHz)	5745
Antenna Port	0		

Modulation	11a	Test Freq. (MHz)	5785
Antenna Port	0		

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Modulation	11a	Test Freq. (MHz)	5825
Antenna Port	0		

Level (dBm)

<

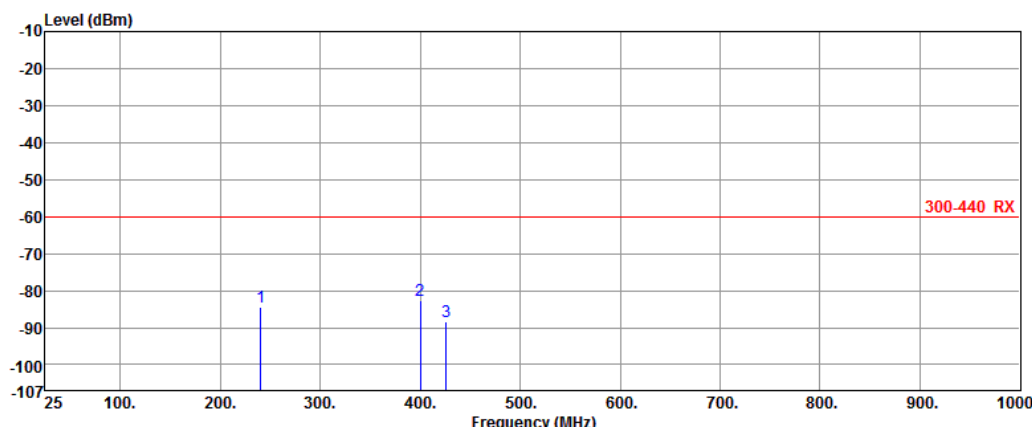
Modulation	VHT20	Test Freq. (MHz)	5745
Antenna Port	0		

</

Modulation	VHT20	Test Freq. (MHz)	5785
Antenna Port	0		

</

Modulation	VHT20	Test Freq. (MHz)	5825
Antenna Port	0		

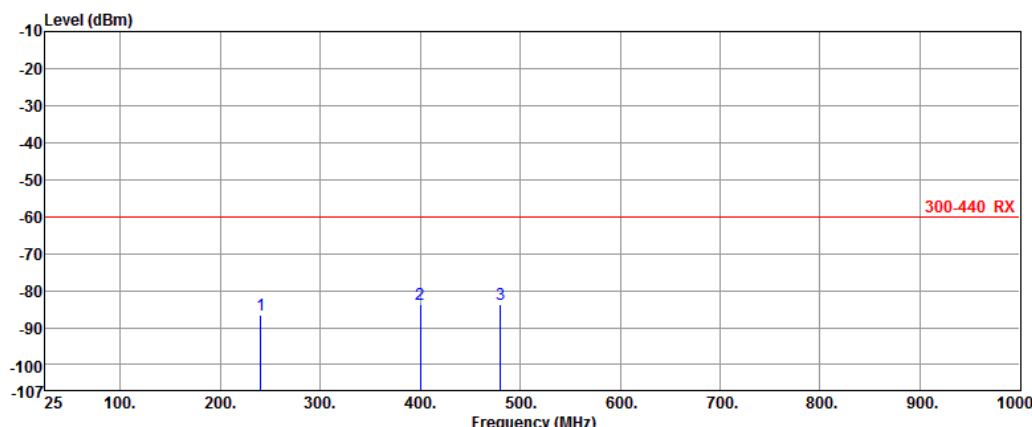


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	240.48	-84.38	-60.01	-24.37	0.00	-84.38
2	400.38	-82.78	-60.01	-22.77	0.00	-82.78
3	425.73	-88.45	-60.01	-28.44	0.00	-88.45

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT40	Test Freq. (MHz)	5755
Antenna Port	0		



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	240.48	-86.71	-60.01	-26.70	0.00	-86.71
2	400.38	-83.67	-60.01	-23.66	0.00	-83.67
3	480.33	-83.74	-60.01	-23.73	0.00	-83.74

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

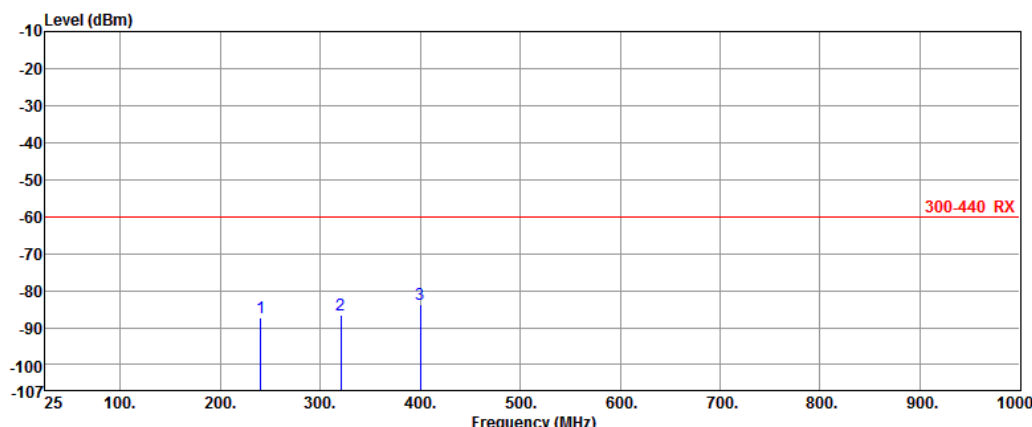
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT40	Test Freq. (MHz)	5795
Antenna Port	0		

Modulation	VHT80	Test Freq. (MHz)	5775
Antenna Port	0		

<

Modulation	11a	Test Freq. (MHz)	5745
Antenna Port	1		

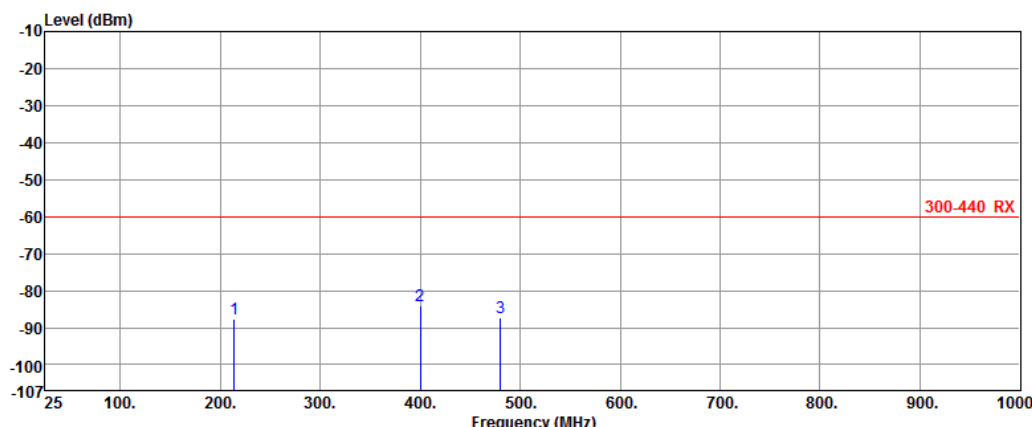


Freq.	Measured value	Limit	Margin	Factor	Reading
MHz	dBm	dBm	dB	dB	dBm
1 240.48	-87.34	-60.01	-27.33	0.00	-87.34
2 320.43	-86.68	-60.01	-26.67	0.00	-86.68
3 400.38	-83.67	-60.01	-23.66	0.00	-83.67

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11a	Test Freq. (MHz)	5785
Antenna Port	1		

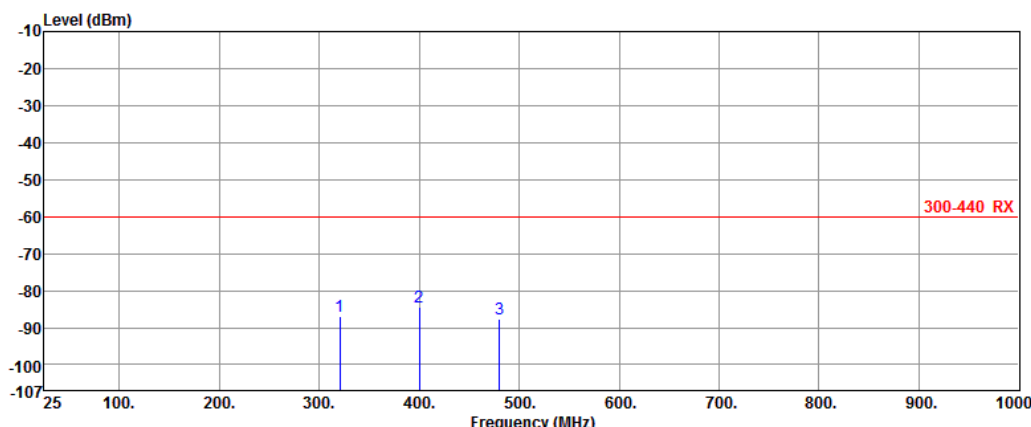


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	214.15	-87.80	-60.01	-27.79	0.00	-87.80
2	400.38	-84.21	-60.01	-24.20	0.00	-84.21
3	480.33	-87.20	-60.01	-27.19	0.00	-87.20

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11a	Test Freq. (MHz)	5825
Antenna Port	1		

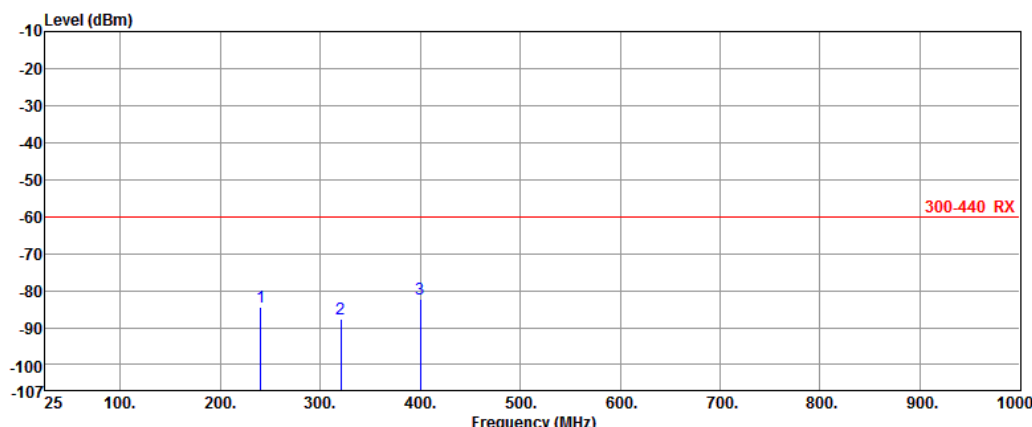


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	320.43	-86.86	-60.01	-26.85	0.00	-86.86
2	400.38	-84.29	-60.01	-24.28	0.00	-84.29
3	480.33	-87.59	-60.01	-27.58	0.00	-87.59

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT20	Test Freq. (MHz)	5745
Antenna Port	1		

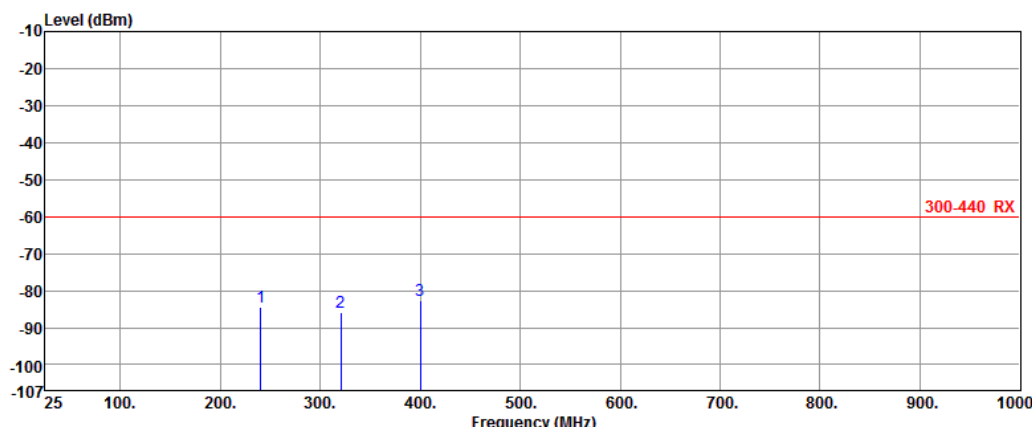


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	240.48	-84.61	-60.01	-24.60	0.00	-84.61
2	320.43	-87.62	-60.01	-27.61	0.00	-87.62
3	400.38	-82.16	-60.01	-22.15	0.00	-82.16

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT20	Test Freq. (MHz)	5785
Antenna Port	1		

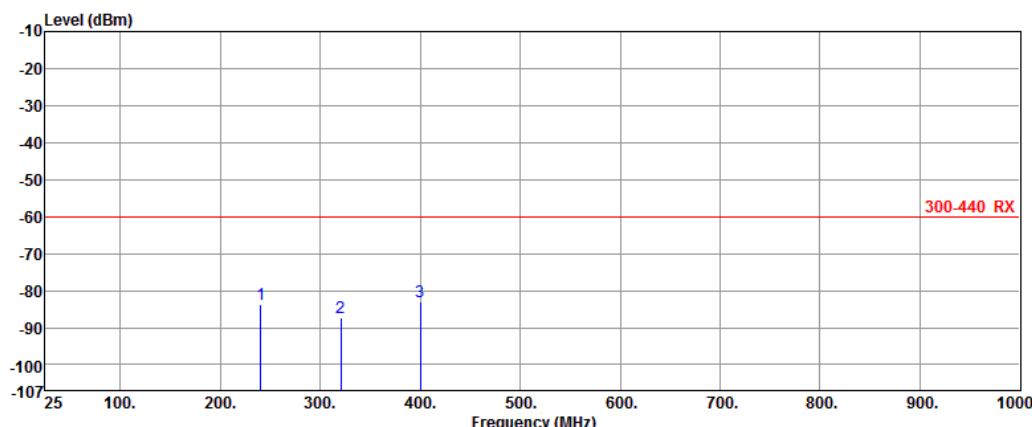


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	240.48	-84.49	-60.01	-24.48	0.00	-84.49
2	320.43	-86.03	-60.01	-26.02	0.00	-86.03
3	400.38	-82.58	-60.01	-22.57	0.00	-82.58

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT20	Test Freq. (MHz)	5825
Antenna Port	1		

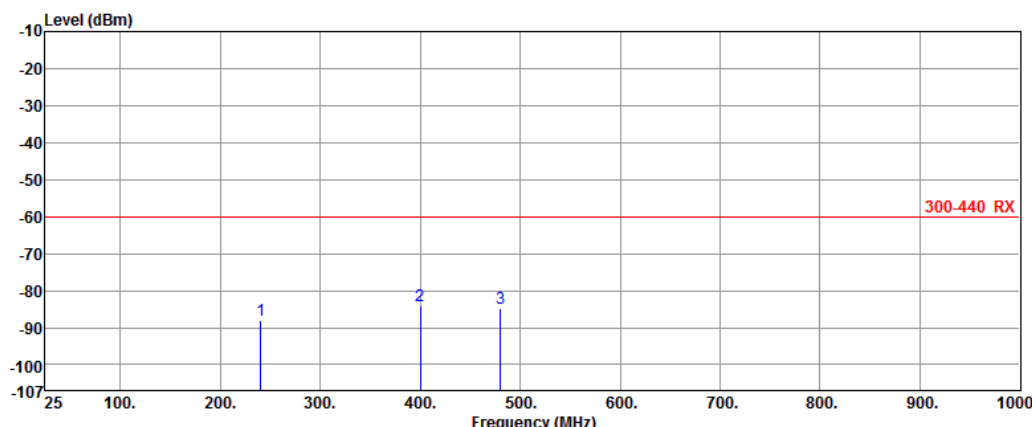


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	240.48	-83.67	-60.01	-23.66	0.00	-83.67
2	320.43	-87.26	-60.01	-27.25	0.00	-87.26
3	400.38	-82.93	-60.01	-22.92	0.00	-82.93

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT40	Test Freq. (MHz)	5755
Antenna Port	1		

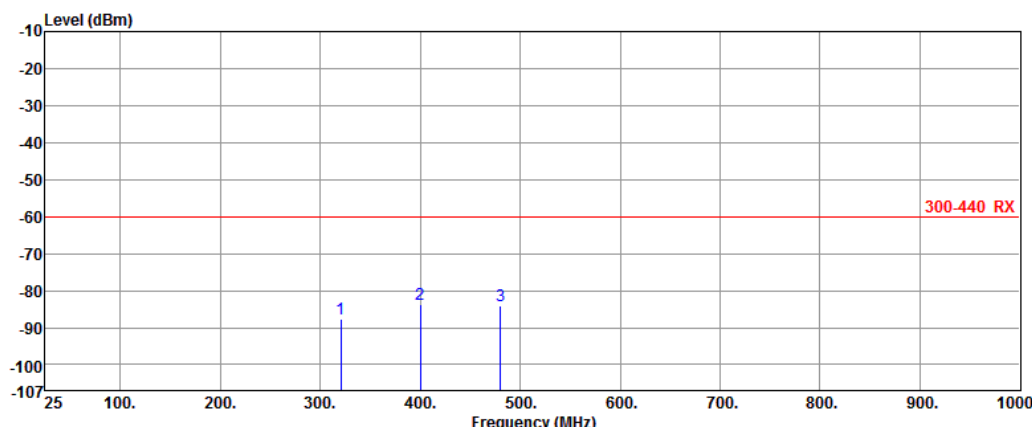


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	240.48	-88.12	-60.01	-28.11	0.00	-88.12
2	400.38	-84.22	-60.01	-24.21	0.00	-84.22
3	480.33	-84.94	-60.01	-24.93	0.00	-84.94

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT40	Test Freq. (MHz)	5795
Antenna Port	1		

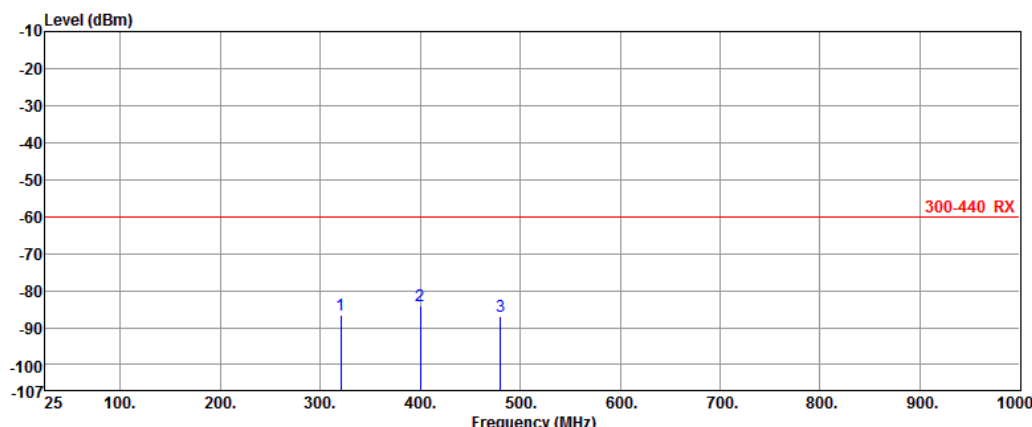


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	320.43	-87.78	-60.01	-27.77	0.00	-87.78
2	400.38	-83.68	-60.01	-23.67	0.00	-83.68
3	480.33	-83.94	-60.01	-23.93	0.00	-83.94

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT80	Test Freq. (MHz)	5775
Antenna Port	1		



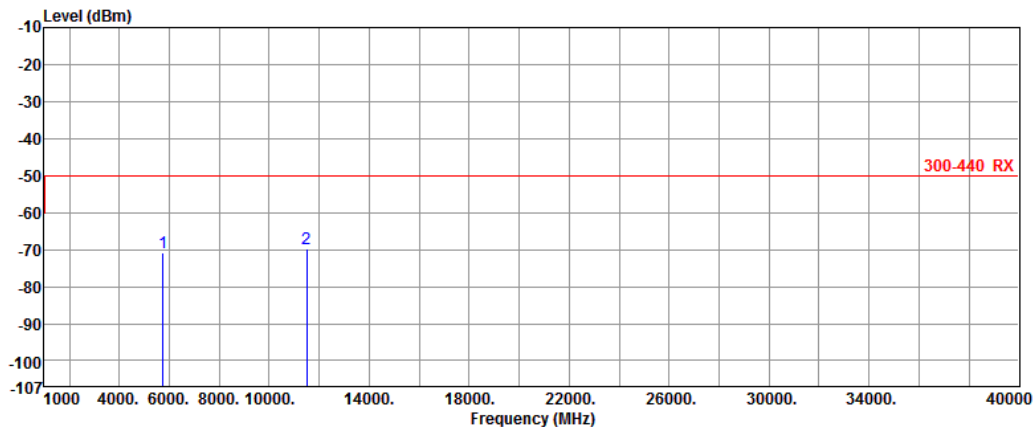
Freq.	Measured value	Limit	Margin	Factor	Reading	
MHz	dBm	dBm	dB	dB	dBm	
1	320.43	-86.43	-60.01	-26.42	0.00	-86.43
2	400.38	-84.08	-60.01	-24.07	0.00	-84.08
3	480.33	-86.96	-60.01	-26.95	0.00	-86.96

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

4.1.5 Receiver Conducted Unwanted Emissions (Above 1GHz)

Modulation	11a	Test Freq. (MHz)	5745
Antenna Port	0		

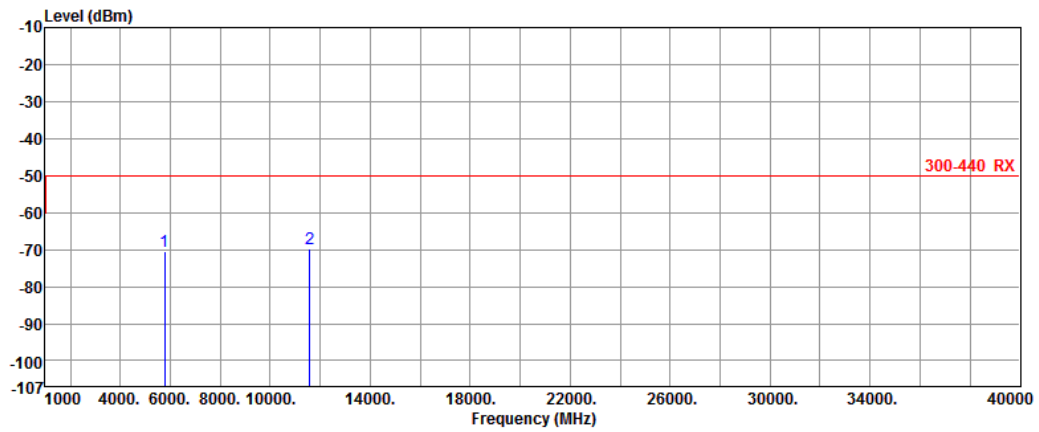


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	5745.34	-70.85	-50.01	-20.84	0.00	-70.85
2	11490.41	-69.89	-50.01	-19.88	0.00	-69.89

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11a	Test Freq. (MHz)	5785
Antenna Port	0		

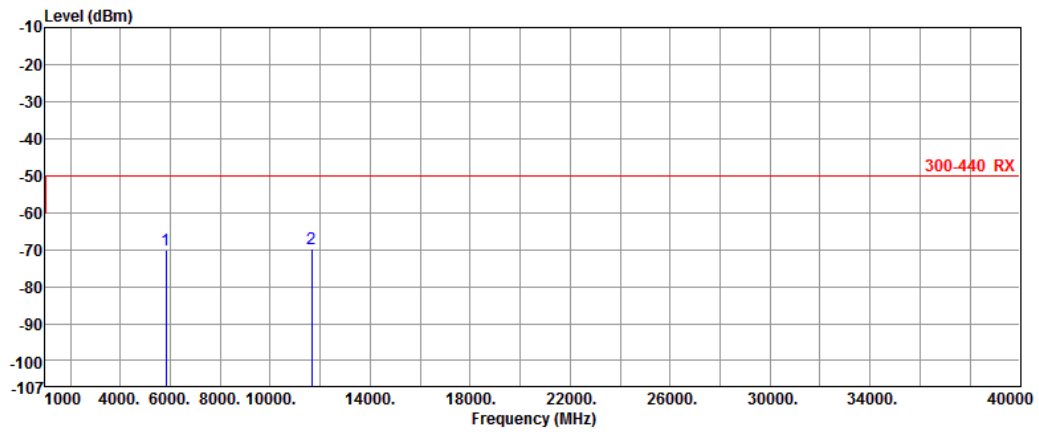


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	5784.50	-70.51	-50.01	-20.50	0.00	-70.51
2	11569.92	-69.92	-50.01	-19.91	0.00	-69.92

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11a	Test Freq. (MHz)	5825
Antenna Port	0		

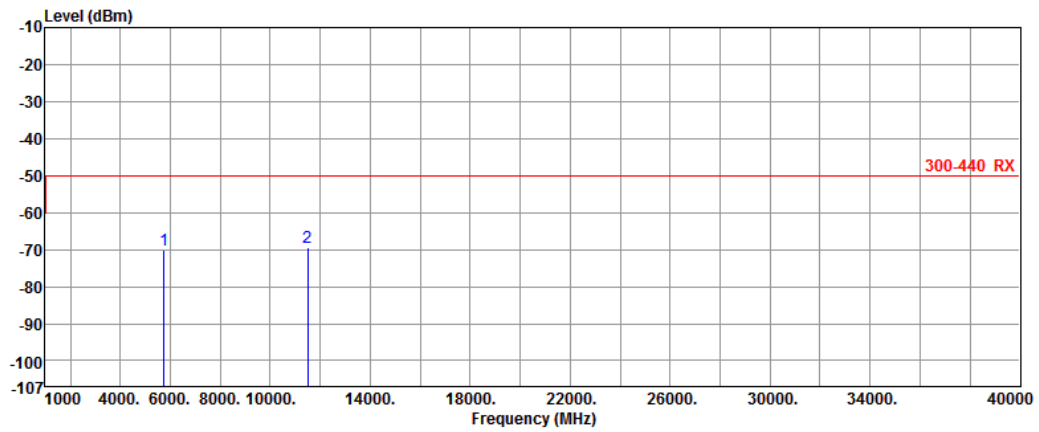


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	5825.11	-70.18	-50.01	-20.17	0.00	-70.18
2	11649.42	-69.94	-50.01	-19.93	0.00	-69.94

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT20	Test Freq. (MHz)	5745
Antenna Port	0		



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	5745.85	-70.21	-50.01	-20.20	0.00	-70.21
2	11490.98	-69.32	-50.01	-19.31	0.00	-69.32

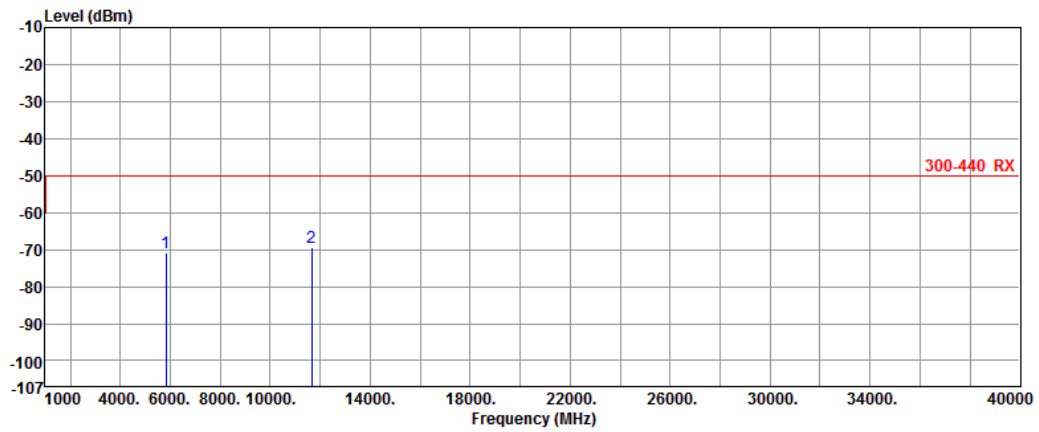
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT20	Test Freq. (MHz)	5785
Antenna Port	0		

Level (dBm)

Modulation	VHT20	Test Freq. (MHz)	5825
Antenna Port	0		

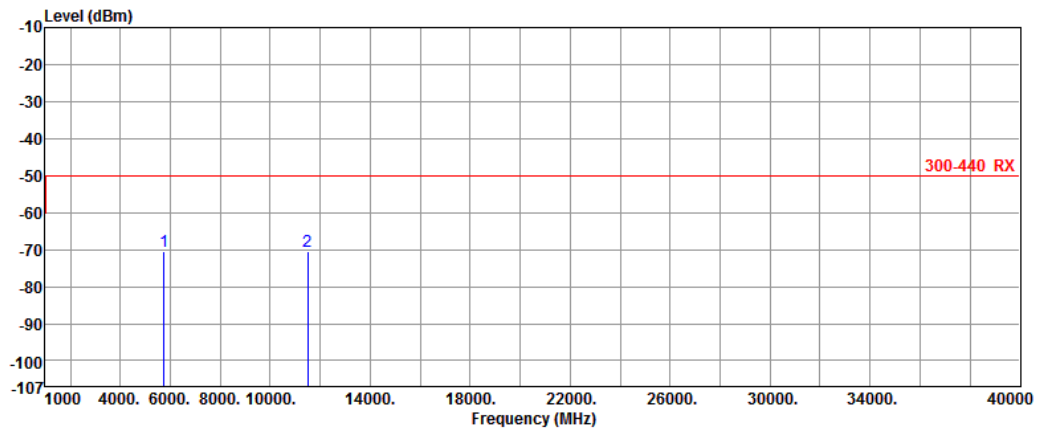


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	5825.95	-70.99	-50.01	-20.98	0.00	-70.99
2	11649.46	-69.41	-50.01	-19.40	0.00	-69.41

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT40	Test Freq. (MHz)	5755
Antenna Port	0		

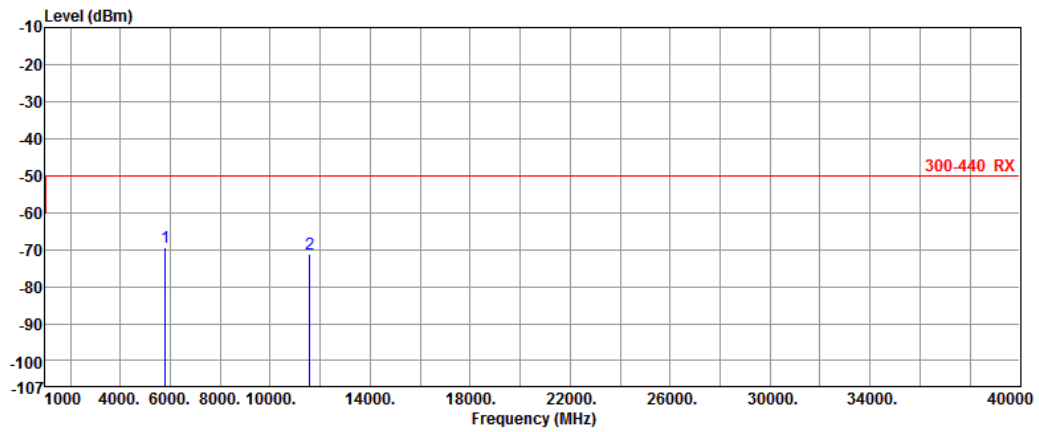


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	5754.56	-70.48	-50.01	-20.47	0.00	-70.48
2	11509.73	-70.55	-50.01	-20.54	0.00	-70.55

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT40	Test Freq. (MHz)	5795
Antenna Port	0		

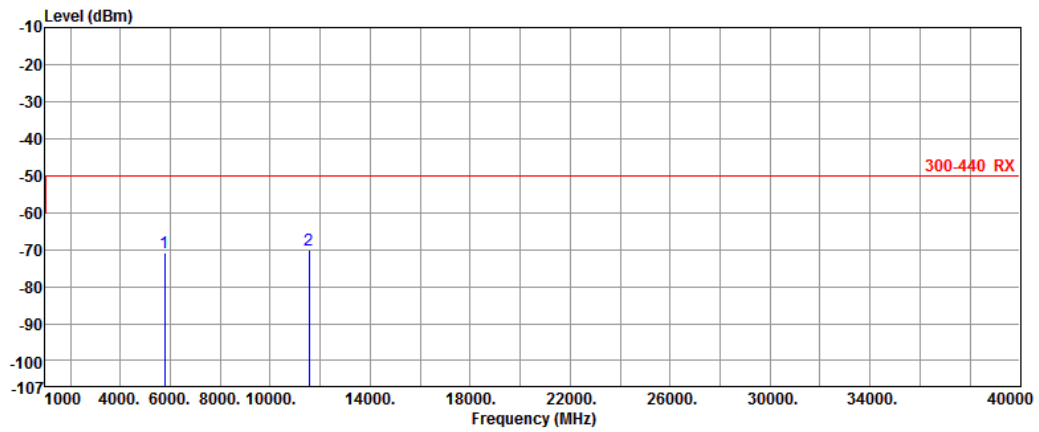


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	5795.01	-69.54	-50.01	-19.53	0.00	-69.54
2	11590.33	-71.23	-50.01	-21.22	0.00	-71.23

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT80	Test Freq. (MHz)	5775
Antenna Port	0		

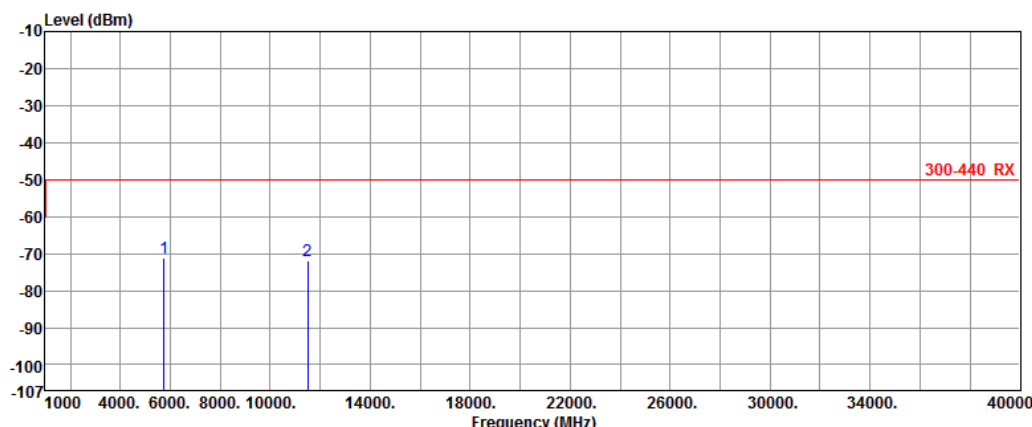


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	5774.92	-70.88	-50.01	-20.87	0.00	-70.88
2	11549.79	-69.97	-50.01	-19.96	0.00	-69.97

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11a	Test Freq. (MHz)	5745
Antenna Port	1		

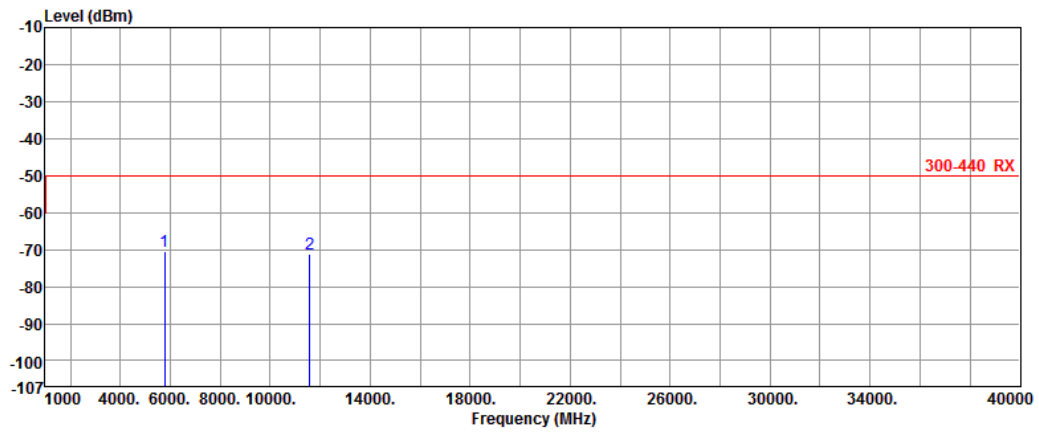


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	5745.29	-71.18	-50.01	-21.17	0.00	-71.18
2	11490.35	-72.02	-50.01	-22.01	0.00	-72.02

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11a	Test Freq. (MHz)	5785
Antenna Port	1		



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	5785.94	-70.44	-50.01	-20.43	0.00	-70.44
2	11570.18	-71.07	-50.01	-21.06	0.00	-71.07

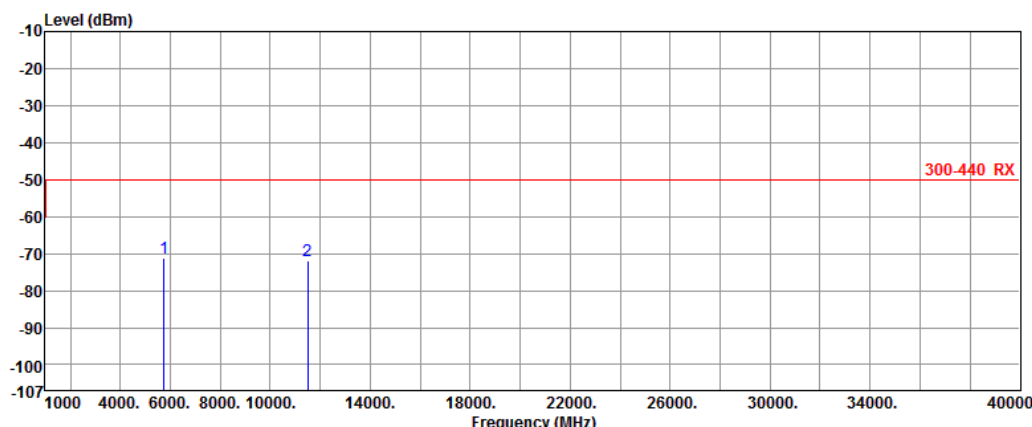
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11a	Test Freq. (MHz)	5825
Antenna Port	1		

Level (dBm)

Modulation	VHT20	Test Freq. (MHz)	5745
Antenna Port	1		

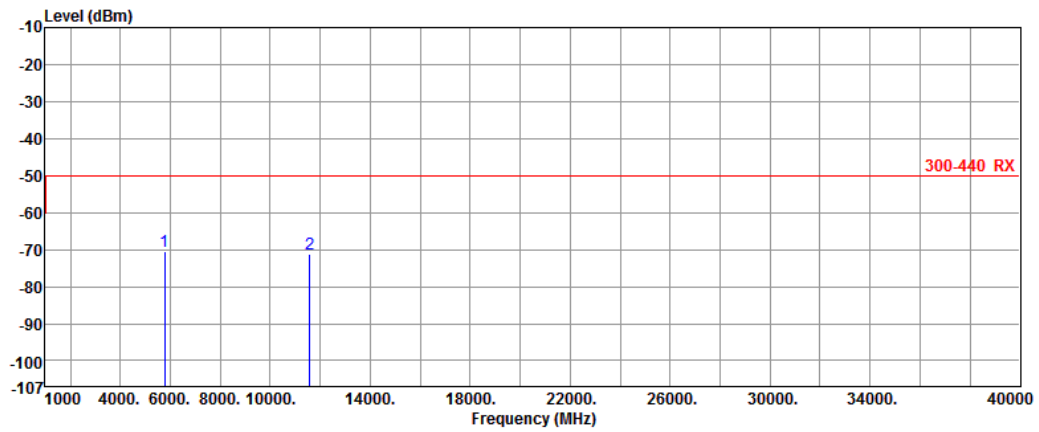


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	5745.54	-71.18	-50.01	-21.17	0.00	-71.18
2	11490.89	-72.02	-50.01	-22.01	0.00	-72.02

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT20	Test Freq. (MHz)	5785
Antenna Port	1		



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	5785.16	-70.44	-50.01	-20.43	0.00	-70.44
2	11570.89	-71.07	-50.01	-21.06	0.00	-71.07

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

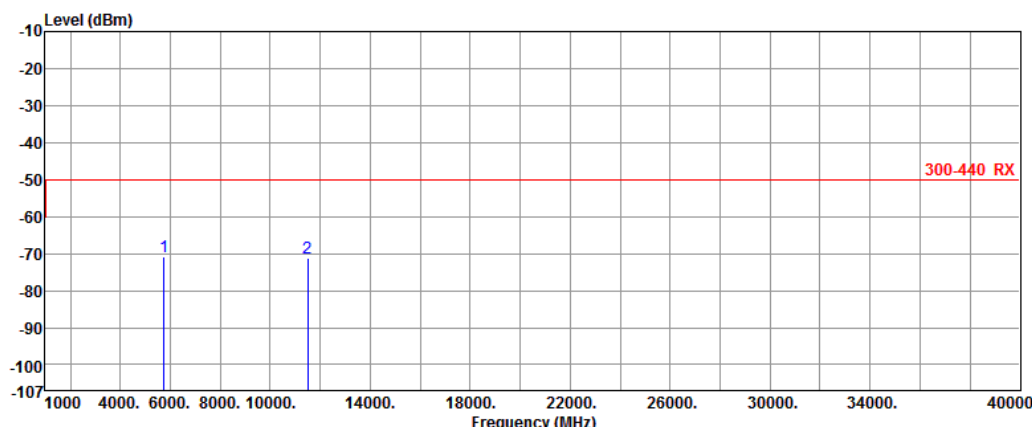
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT20	Test Freq. (MHz)	5825
Antenna Port	1		

Level (dBm)

</

Modulation	VHT40	Test Freq. (MHz)	5755
Antenna Port	1		

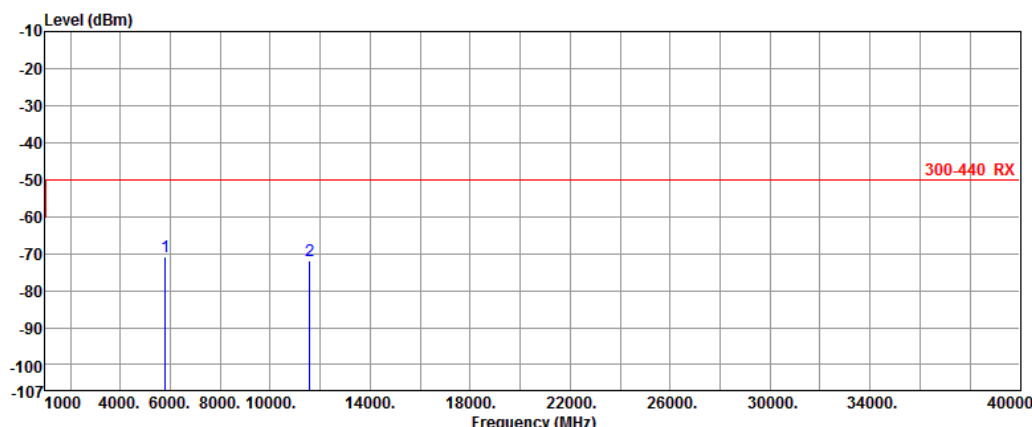


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	5755.17	-70.98	-50.01	-20.97	0.00	-70.98
2	11510.46	-71.05	-50.01	-21.04	0.00	-71.05

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT40	Test Freq. (MHz)	5795
Antenna Port	1		



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	5795.50	-70.86	-50.01	-20.85	0.00	-70.86
2	11590.04	-72.09	-50.01	-22.08	0.00	-72.09

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

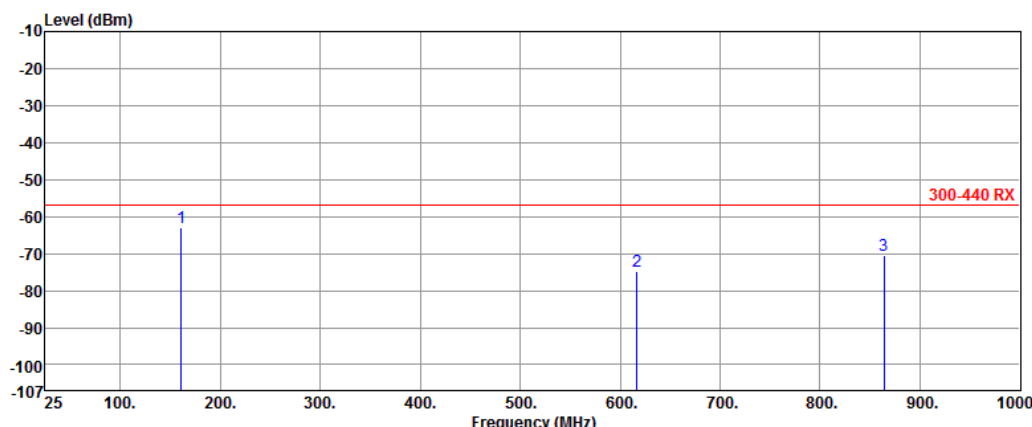
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT80	Test Freq. (MHz)	5775
Antenna Port	1		

Level (dBm)

<

Modulation	11a	Test Freq. (MHz)	5745
Polarization	Vertical		

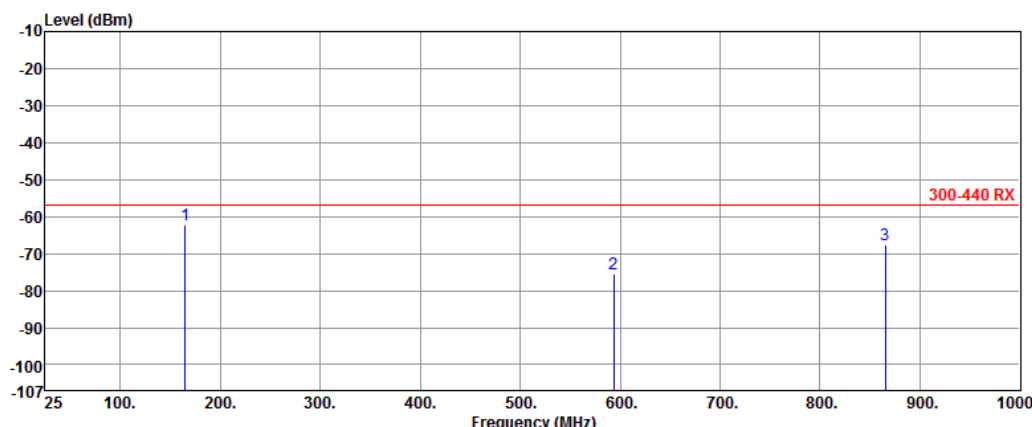


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	160.95	-62.96	-57.00	-5.96	0.91	-63.87
2	616.85	-74.73	-57.00	-17.73	7.14	-81.87
3	864.20	-70.35	-57.00	-13.35	10.09	-80.44

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11a	Test Freq. (MHz)	5785
Polarization	Horizontal		

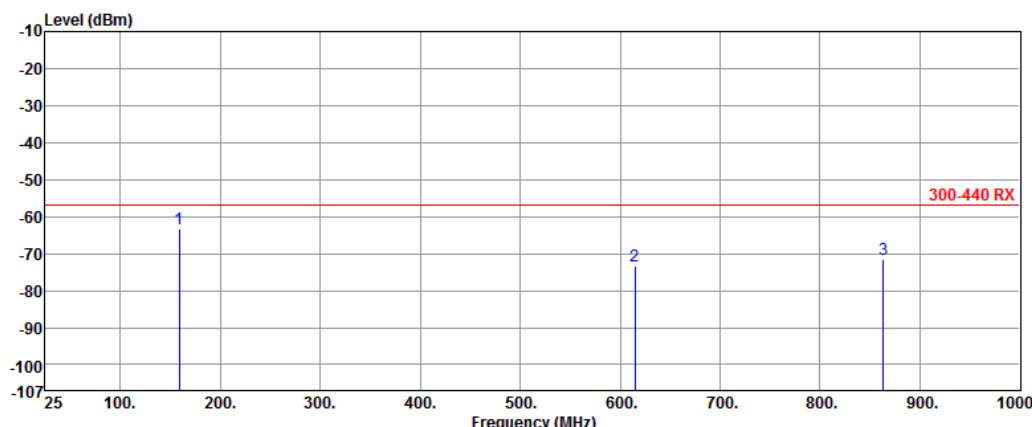


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	164.83	-62.09	-57.00	-5.09	0.28	-62.37
2	593.57	-75.41	-57.00	-18.41	6.52	-81.93
3	865.19	-67.48	-57.00	-10.48	9.99	-77.47

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11a	Test Freq. (MHz)	5785
Polarization	Vertical		

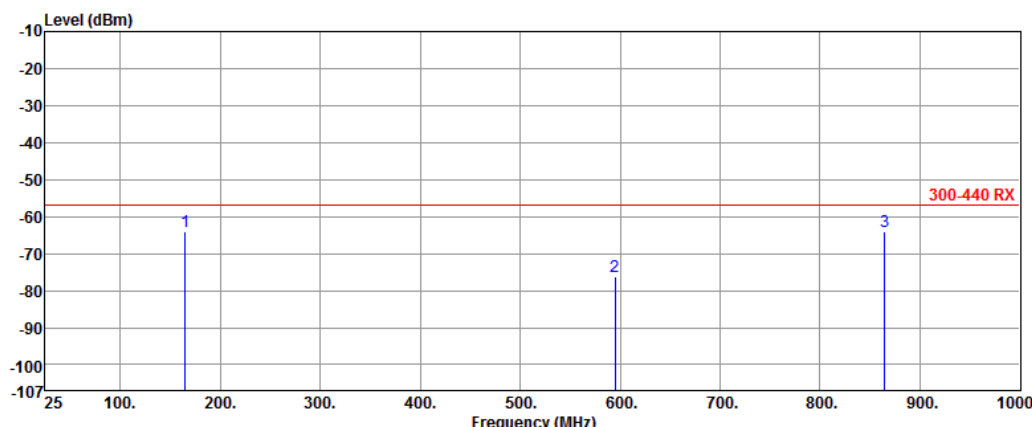


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	159.19	-63.19	-57.00	-6.19	0.90	-64.09
2	615.16	-73.48	-57.00	-16.48	7.22	-80.70
3	863.18	-71.42	-57.00	-14.42	10.07	-81.49

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11a	Test Freq. (MHz)	5825
Polarization	Horizontal		

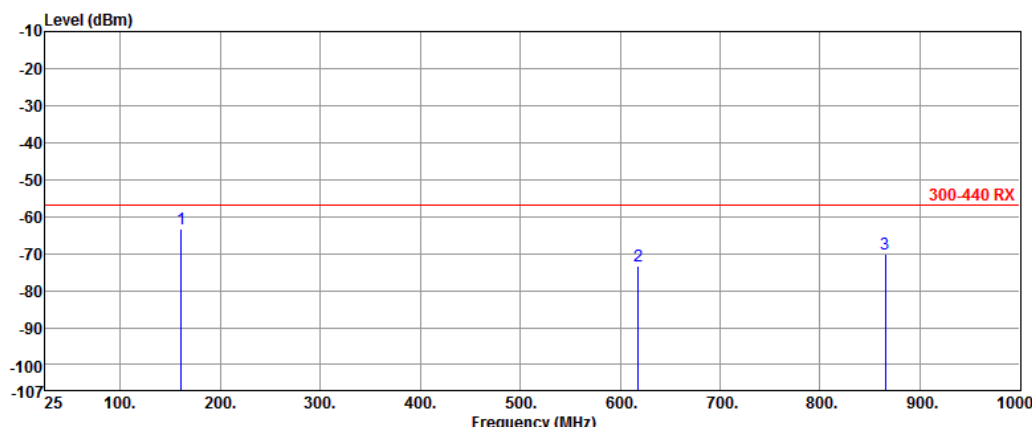


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	165.15	-64.18	-57.00	-7.18	0.21	-64.39
2	594.88	-76.16	-57.00	-19.16	6.57	-82.73
3	864.56	-64.19	-57.00	-7.19	9.97	-74.16

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11a	Test Freq. (MHz)	5825
Polarization	Vertical		

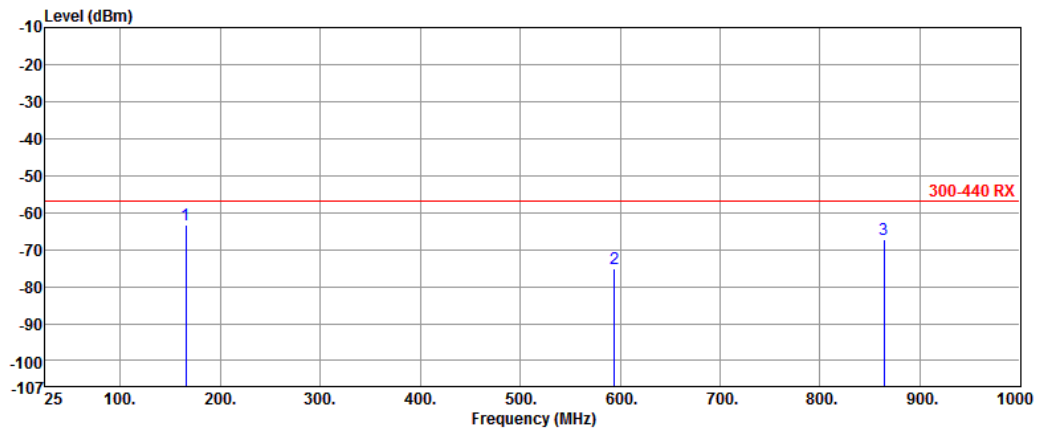


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	161.19	-63.18	-57.00	-6.18	0.89	-64.07
2	618.17	-73.20	-57.00	-16.20	7.07	-80.27
3	865.19	-70.08	-57.00	-13.08	10.12	-80.20

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Horizontal		

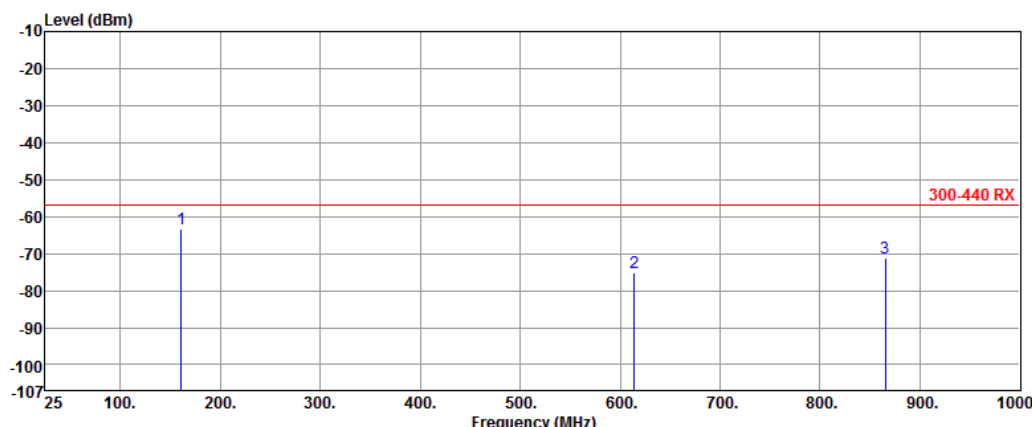


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	165.74	-63.19	-57.00	-6.19	0.03	-63.22
2	594.29	-75.23	-57.00	-18.23	6.54	-81.77
3	864.19	-67.15	-57.00	-10.15	9.95	-77.10

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Vertical		

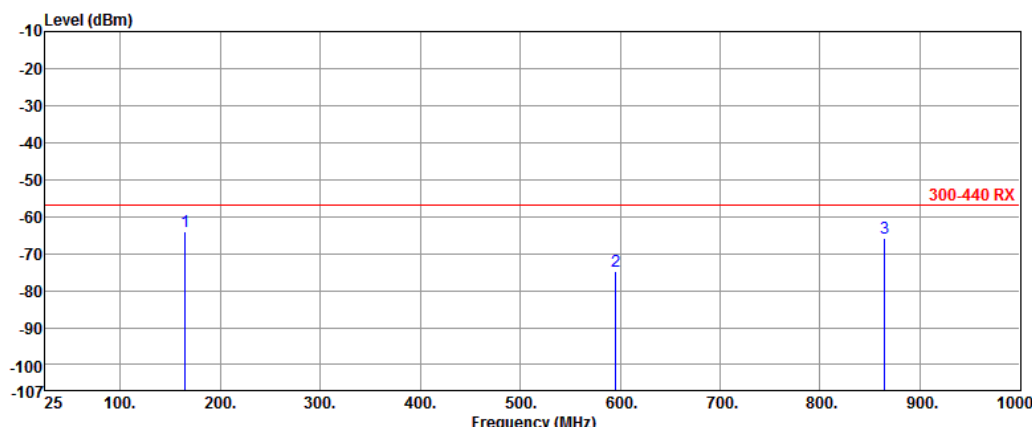


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	161.15	-63.18	-57.00	-6.18	0.89	-64.07
2	614.42	-75.19	-57.00	-18.19	7.23	-82.42
3	865.19	-71.19	-57.00	-14.19	10.12	-81.31

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Horizontal		

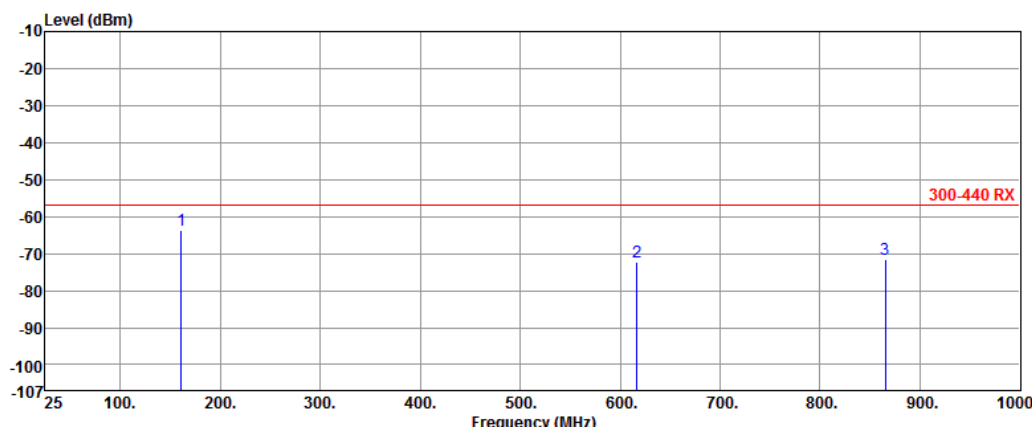


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	165.16	-64.19	-57.00	-7.19	0.21	-64.40
2	595.52	-74.82	-57.00	-17.82	6.57	-81.39
3	864.95	-65.94	-57.00	-8.94	9.98	-75.92

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Vertical		

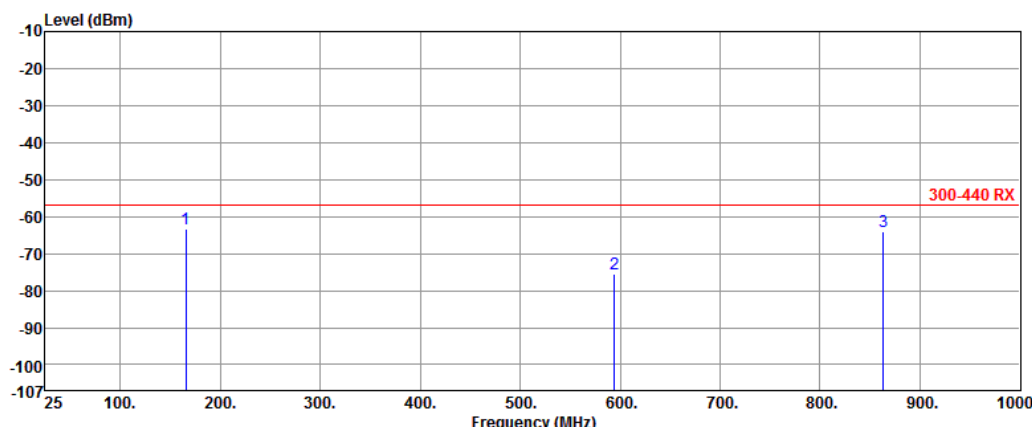


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	161.16	-63.74	-57.00	-6.74	0.89	-64.63
2	617.19	-72.18	-57.00	-15.18	7.12	-79.30
3	865.16	-71.48	-57.00	-14.48	10.12	-81.60

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT20	Test Freq. (MHz)	5825
Polarization	Horizontal		

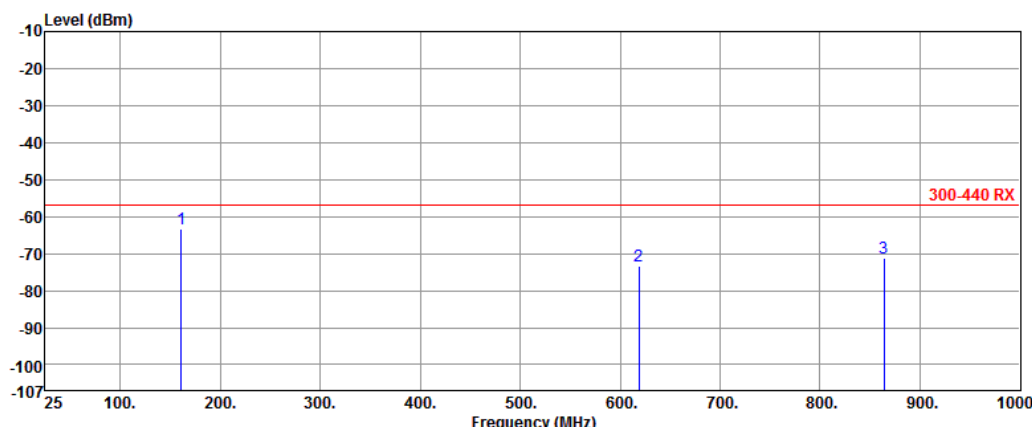


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	165.68	-63.17	-57.00	-6.17	0.05	-63.22
2	594.16	-75.48	-57.00	-18.48	6.54	-82.02
3	863.16	-64.15	-57.00	-7.15	9.92	-74.07

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT20	Test Freq. (MHz)	5825
Polarization	Vertical		

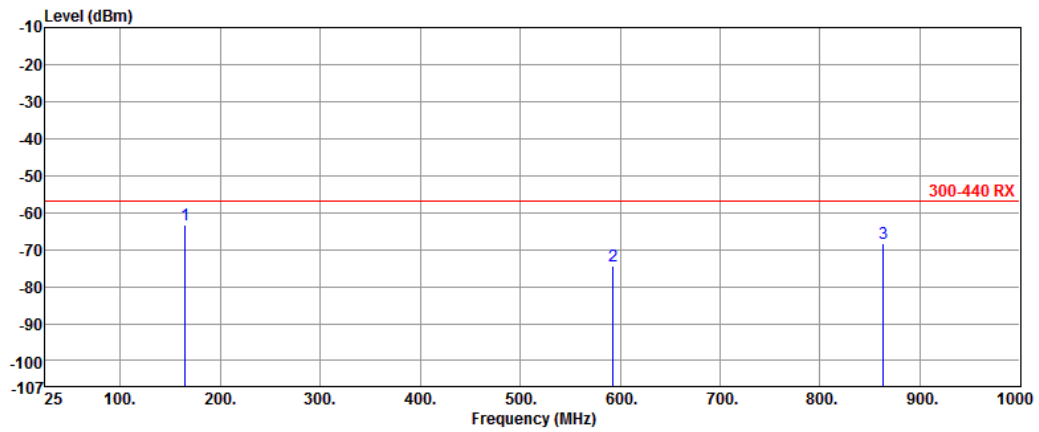


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	161.18	-63.16	-57.00	-6.16	0.89	-64.05
2	618.68	-73.50	-57.00	-16.50	7.05	-80.55
3	864.16	-71.18	-57.00	-14.18	10.09	-81.27

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT40	Test Freq. (MHz)	5755
Polarization	Horizontal		

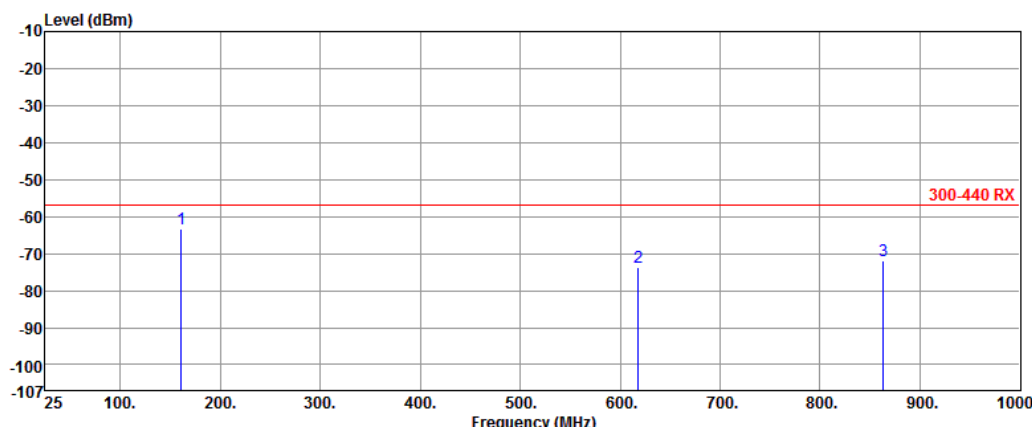


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	165.19	-63.48	-57.00	-6.48	0.20	-63.68
2	593.18	-74.47	-57.00	-17.47	6.49	-80.96
3	863.68	-68.18	-57.00	-11.18	9.94	-78.12

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT40	Test Freq. (MHz)	5755
Polarization	Vertical		

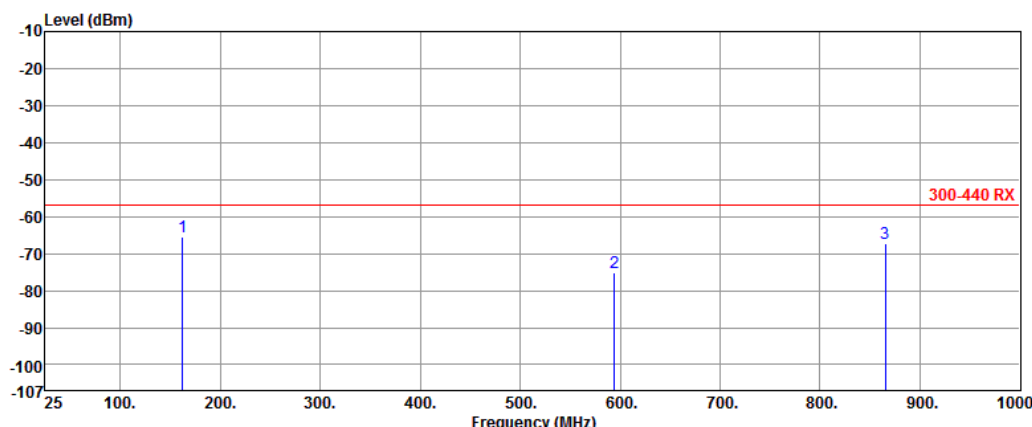


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	161.00	-63.19	-57.00	-6.19	0.90	-64.09
2	618.19	-73.65	-57.00	-16.65	7.07	-80.72
3	863.68	-71.86	-57.00	-14.86	10.08	-81.94

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT40	Test Freq. (MHz)	5795
Polarization	Horizontal		

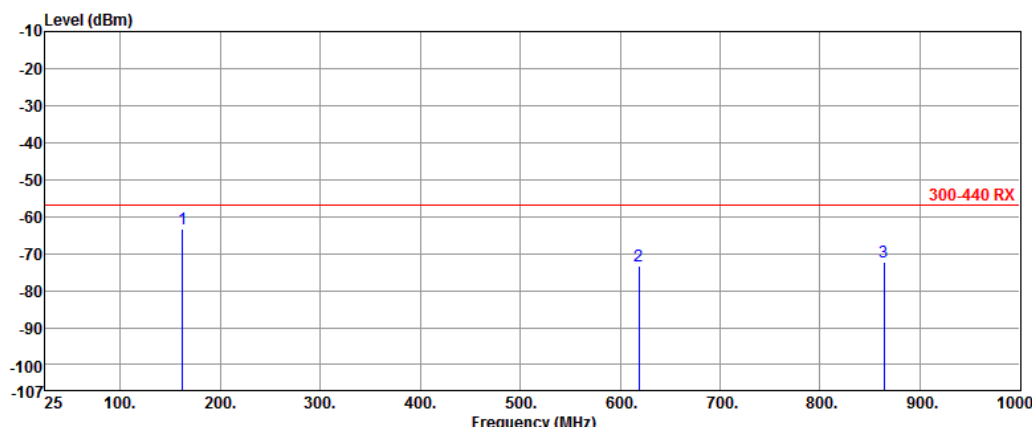


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	162.19	-65.65	-57.00	-8.65	0.63	-66.28
2	594.56	-75.16	-57.00	-18.16	6.55	-81.71
3	865.15	-67.17	-57.00	-10.17	9.99	-77.16

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT40	Test Freq. (MHz)	5795
Polarization	Vertical		

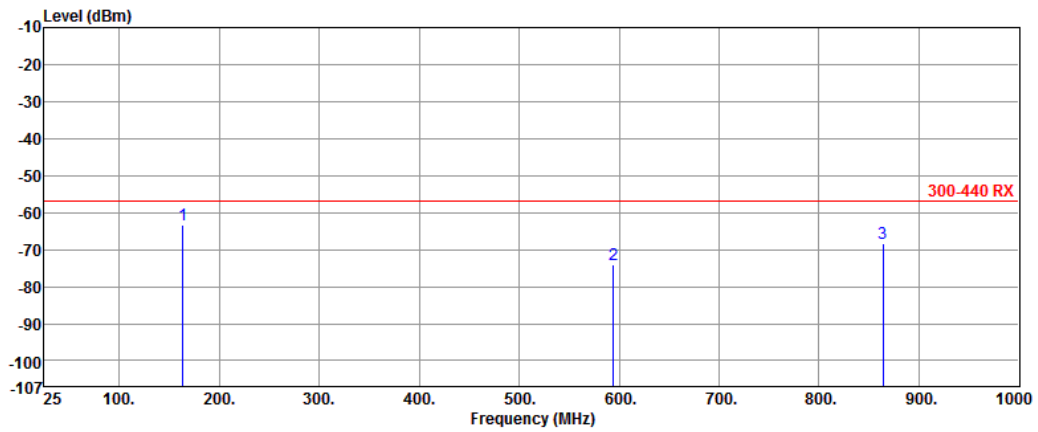


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	162.18	-63.18	-57.00	-6.18	0.81	-63.99
2	619.19	-73.19	-57.00	-16.19	7.02	-80.21
3	864.17	-72.19	-57.00	-15.19	10.09	-82.28

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT80	Test Freq. (MHz)	5775
Polarization	Horizontal		

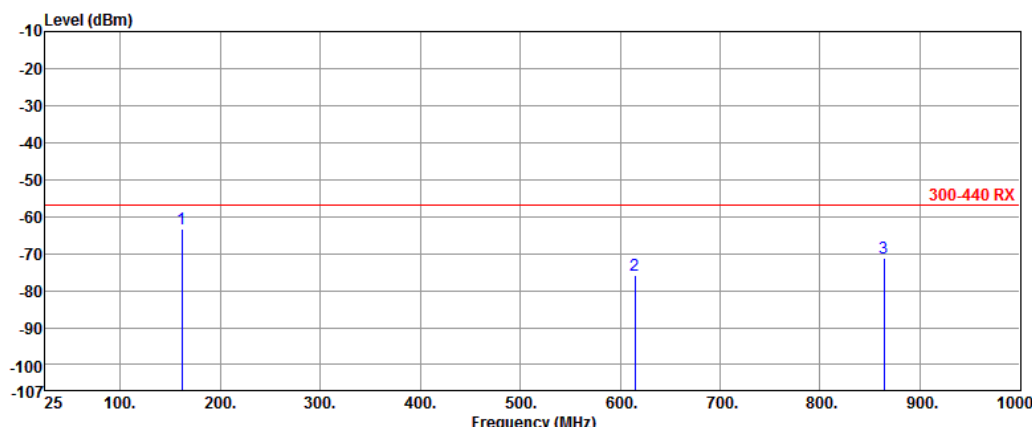


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	163.85	-63.19	-57.00	-6.19	0.41	-63.60
2	594.17	-74.18	-57.00	-17.18	6.54	-80.72
3	864.19	-68.19	-57.00	-11.19	9.95	-78.14

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT80	Test Freq. (MHz)	5775
Polarization	Vertical		



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	161.84	-63.48	-57.00	-6.48	0.83	-64.31
2	615.17	-75.68	-57.00	-18.68	7.22	-82.90
3	864.16	-71.19	-57.00	-14.19	10.09	-81.28

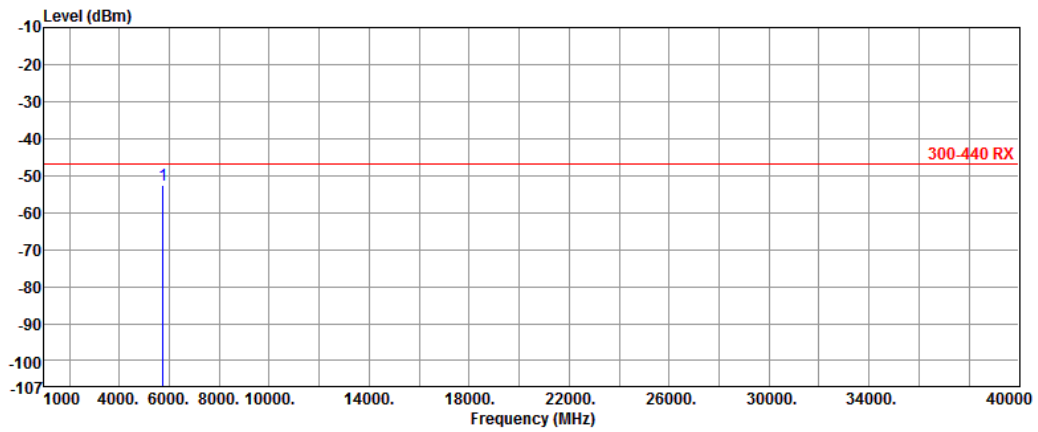
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

4.1.7 Receiver Spurious Emissions (Above 1GHz)

Modulation	11a	Test Freq. (MHz)	5745
Polarization	Horizontal		
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Modulation	11a	Test Freq. (MHz)	5745
Polarization	Vertical		

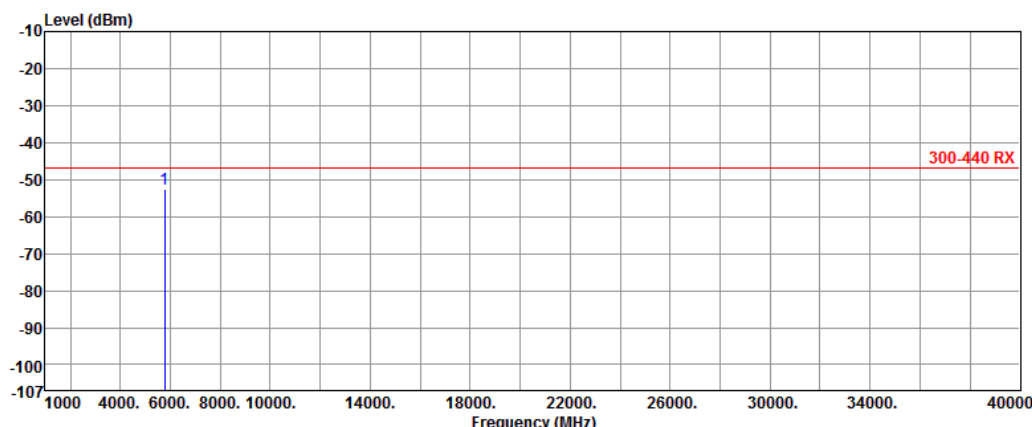


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	5745.11	-52.57	-47.00	-5.57	14.72	-67.29

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11a	Test Freq. (MHz)	5785
Polarization	Horizontal		



Freq.	Measured value	Limit	Margin	Factor	Reading
MHz	dBm	dBm	dB	dB	dBm
1 5784.85	-52.74	-47.00	-5.74	14.90	-67.64

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

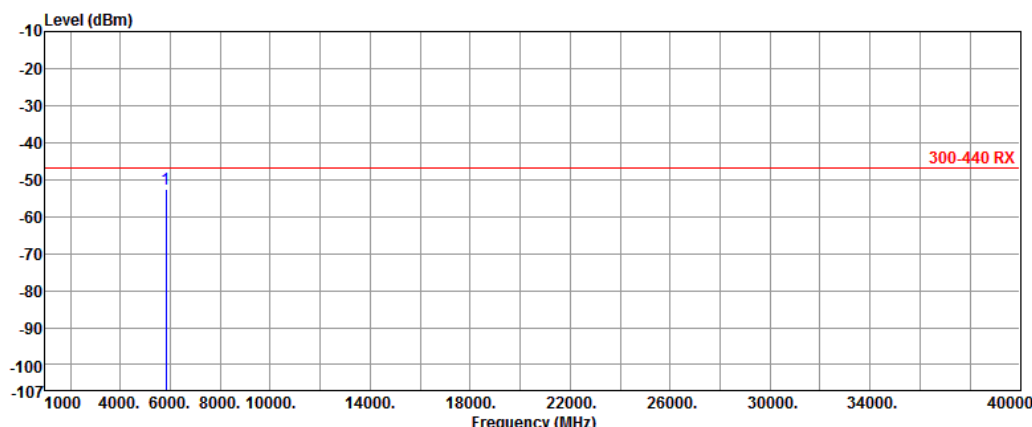
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11a	Test Freq. (MHz)	5785
Polarization	Vertical		

Level (dBm)

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Modulation	11a	Test Freq. (MHz)	5825
Polarization	Horizontal		

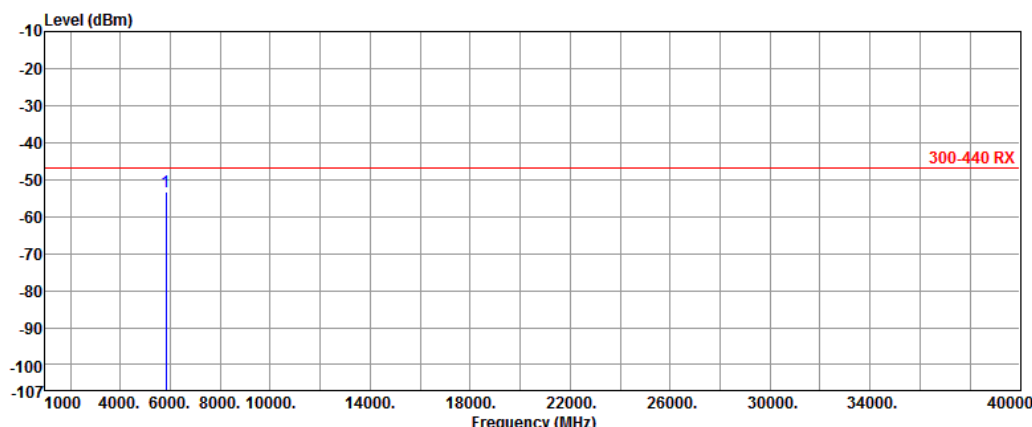


Freq.	Measured value	Limit	Margin	Factor	Reading
MHz	dBm	dBm	dB	dB	dBm
1 5824.89	-52.49	-47.00	-5.49	15.09	-67.58

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11a	Test Freq. (MHz)	5825
Polarization	Vertical		



Freq.	Measured value	Limit	Margin	Factor	Reading
MHz	dBm	dBm	dB	dB	dBm
1 5824.76	-53.46	-47.00	-6.46	14.87	-68.33

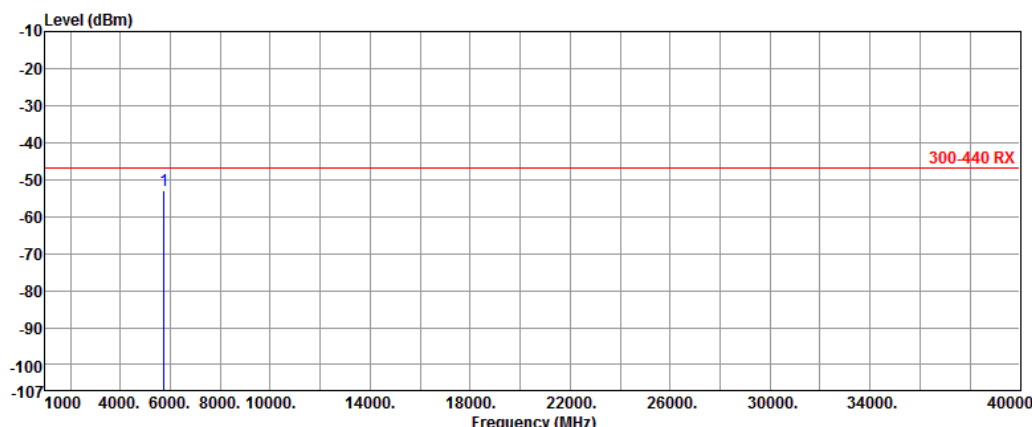
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Horizontal		

Level (dBm)

Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Vertical		

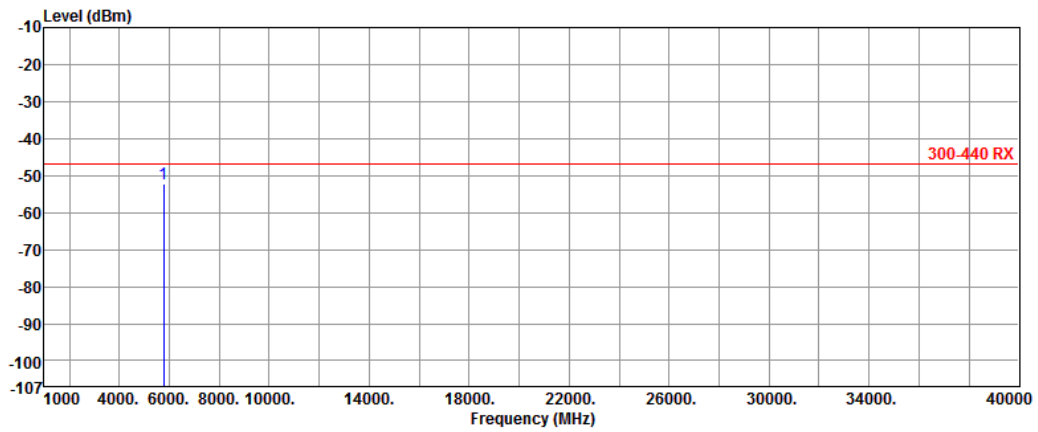


Freq.	Measured value	Limit	Margin	Factor	Reading
MHz	dBm	dBm	dB	dB	dBm
1 5744.87	-52.80	-47.00	-5.80	14.72	-67.52

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Horizontal		

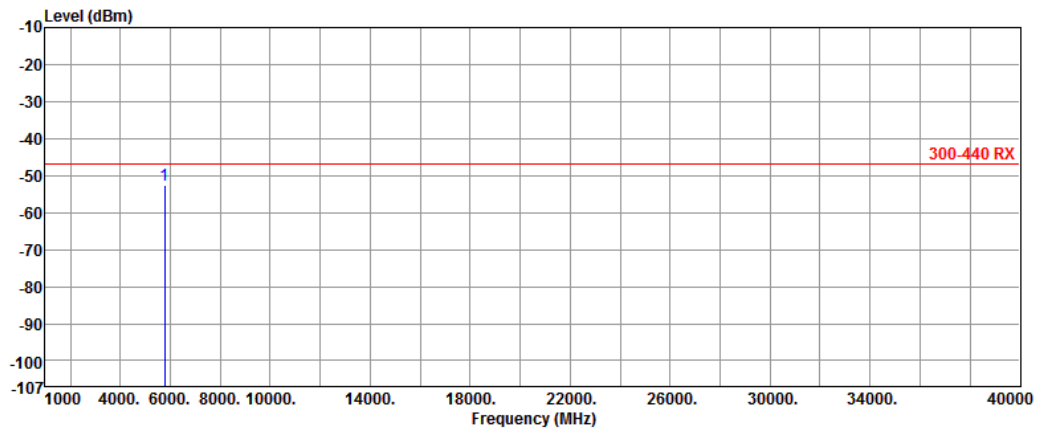


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	5784.90	-52.10	-47.00	-5.10	14.90	-67.00

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Vertical		

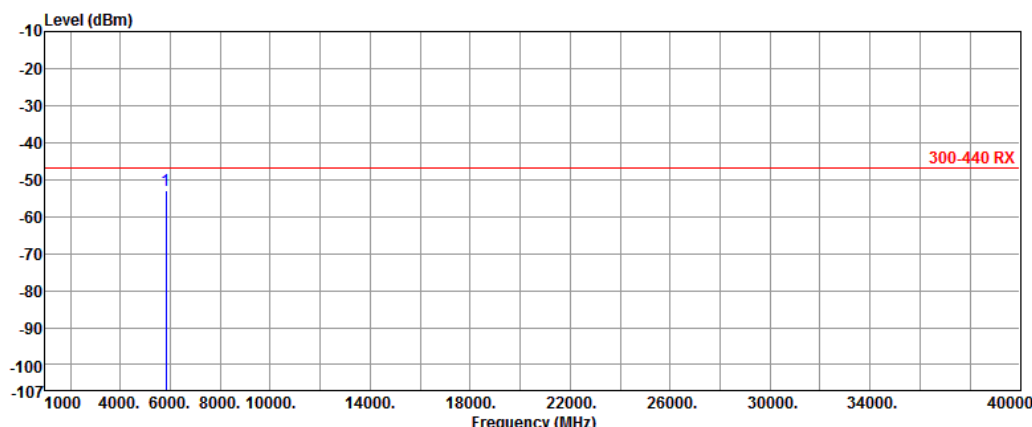


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	5785.12	-52.43	-47.00	-5.43	14.84	-67.27

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT20	Test Freq. (MHz)	5825
Polarization	Horizontal		



Freq.	Measured value	Limit	Margin	Factor	Reading
MHz	dBm	dBm	dB	dB	dBm
1 5824.81	-53.06	-47.00	-6.06	15.09	-68.15

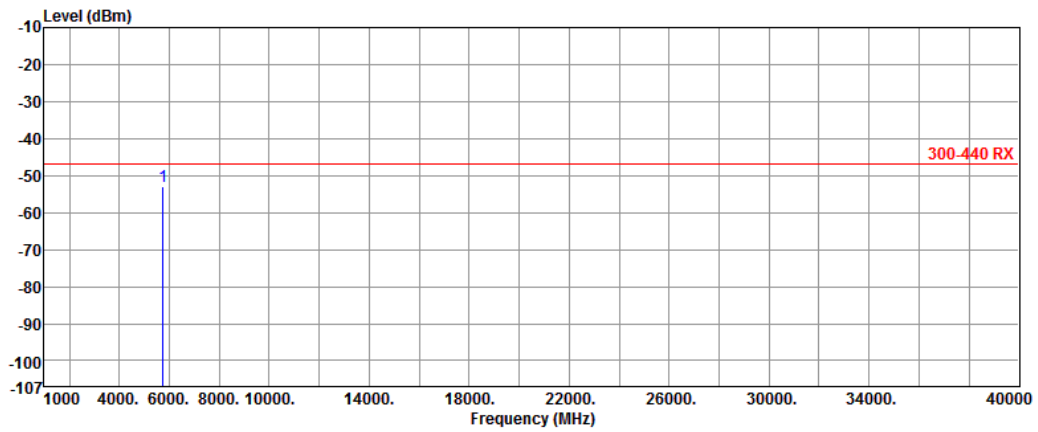
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT20	Test Freq. (MHz)	5825
Polarization	Vertical		

Level (dBm)

Modulation	VHT40	Test Freq. (MHz)	5755
Polarization	Horizontal		



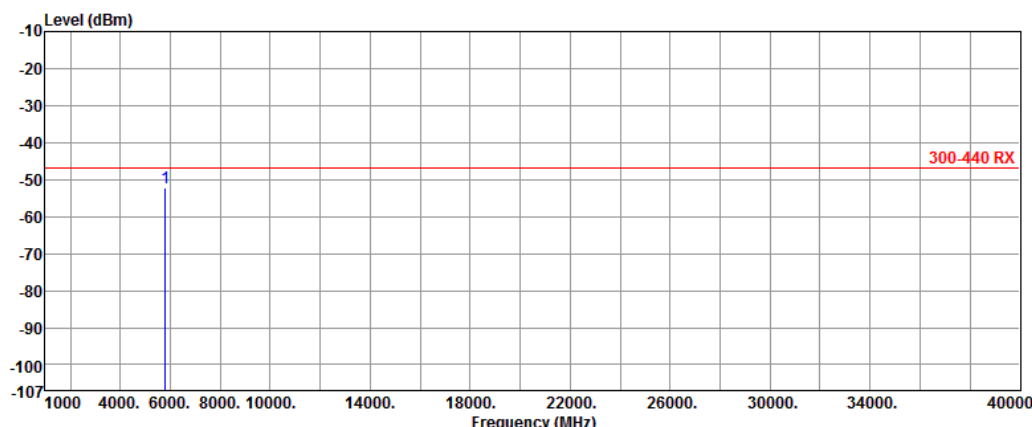
	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	5754.78	-52.83	-47.00	-5.83	14.71	-67.54

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT40	Test Freq. (MHz)	5755
Polarization	Vertical		
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Modulation	VHT40	Test Freq. (MHz)	5795
Polarization	Horizontal		



Freq.	Measured value	Limit	Margin	Factor	Reading
MHz	dBm	dBm	dB	dB	dBm
1 5795.15	-52.09	-47.00	-5.09	14.96	-67.05

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	VHT40	Test Freq. (MHz)	5795
Polarization	Vertical		

Level (dBm)

Modulation	VHT80	Test Freq. (MHz)	5775
Polarization	Horizontal		

Level (dBm)

<

Modulation	VHT80	Test Freq. (MHz)	5775
Polarization	Vertical		

Level (dBm)

4.2 Adjacent Channel Selectivity

4.2.1 Limit of Adjacent Channel Selectivity

Receiver category	Limit
1	-30 dBm + k
2	No limit
3	No limit

The correction factor, k , is as follows:

$$k = -20\log f - 10\log BW$$

Where:

- f is the frequency in GHz;
- BW is the channel bandwidth in MHz.

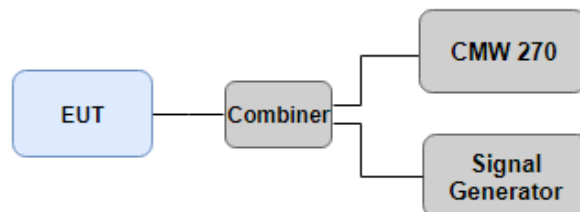
The factor k is limited within the following:

- $0 < k < 40$ dB.

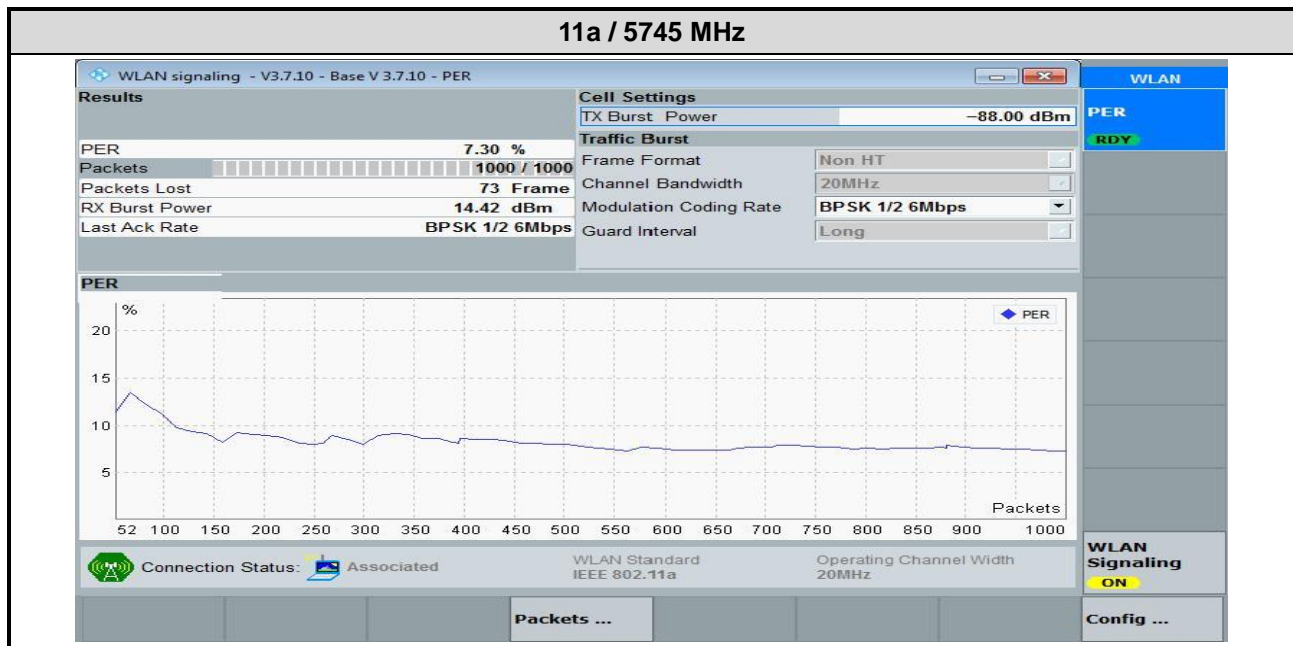
4.2.2 Test Procedures

Reference to clause 4.3.3.3 of ETSI EN 300 440 V2.1.1 (2017-03).

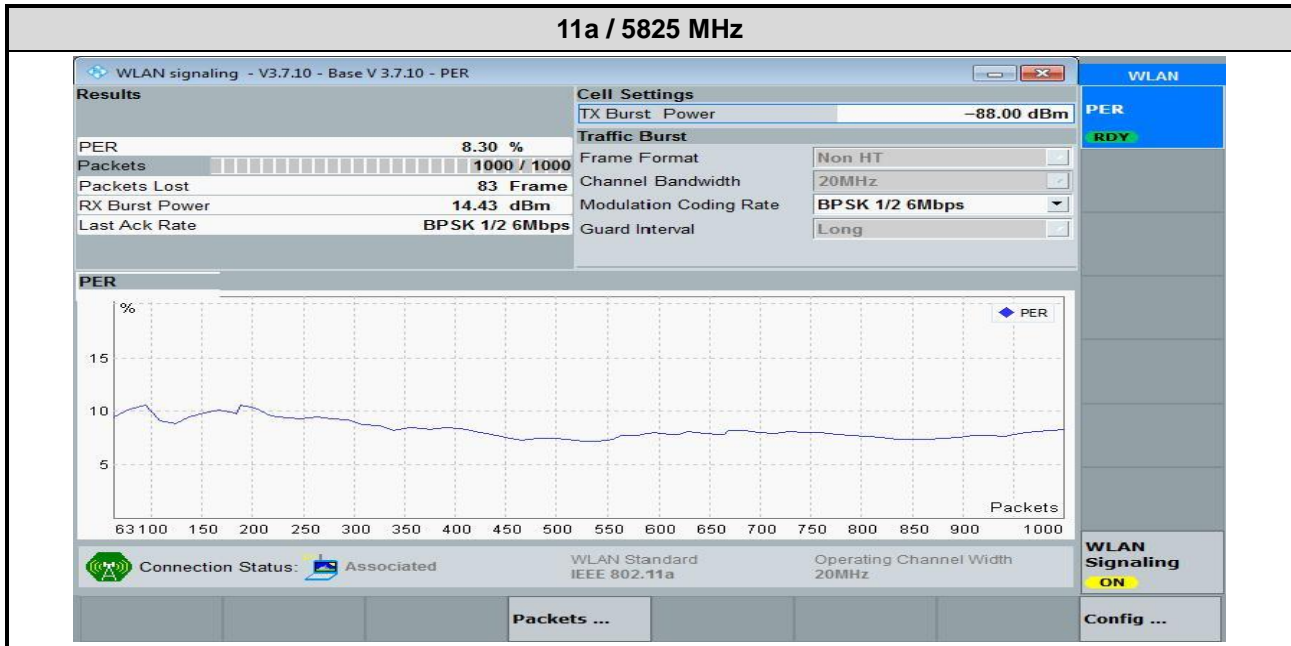
4.2.3 Test Setup



4.2.4 Test Result of Adjacent Channel Selectivity



Receiver Category	1			
Signal Generator (MHz)	Communication Device (dBm)	Signal Generator (dBm)	Limit (dBm)	Test Result
5765.00	-85.00	-44.50	-58.17	Pass



Receiver Category	1			
Signal Generator (MHz)	Communication Device (dBm)	Signal Generator (dBm)	Limit (dBm)	Test Result
5805	-85.00	-44.10	-58.39	Pass

4.3 Receiver Blocking

4.3.1 Limit of Receiver Blocking

Receiver category	Limit
1	-30 dBm + k
2	-45 dBm + k
3	No limit

The correction factor, k , is as follows:

$$k = -20\log f - 10\log BW$$

Where:

- f is the frequency in GHz;
- BW is the channel bandwidth in MHz.

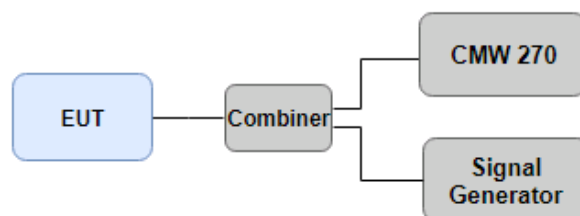
The factor k is limited within the following:

- $0 < k < 40$ dB.

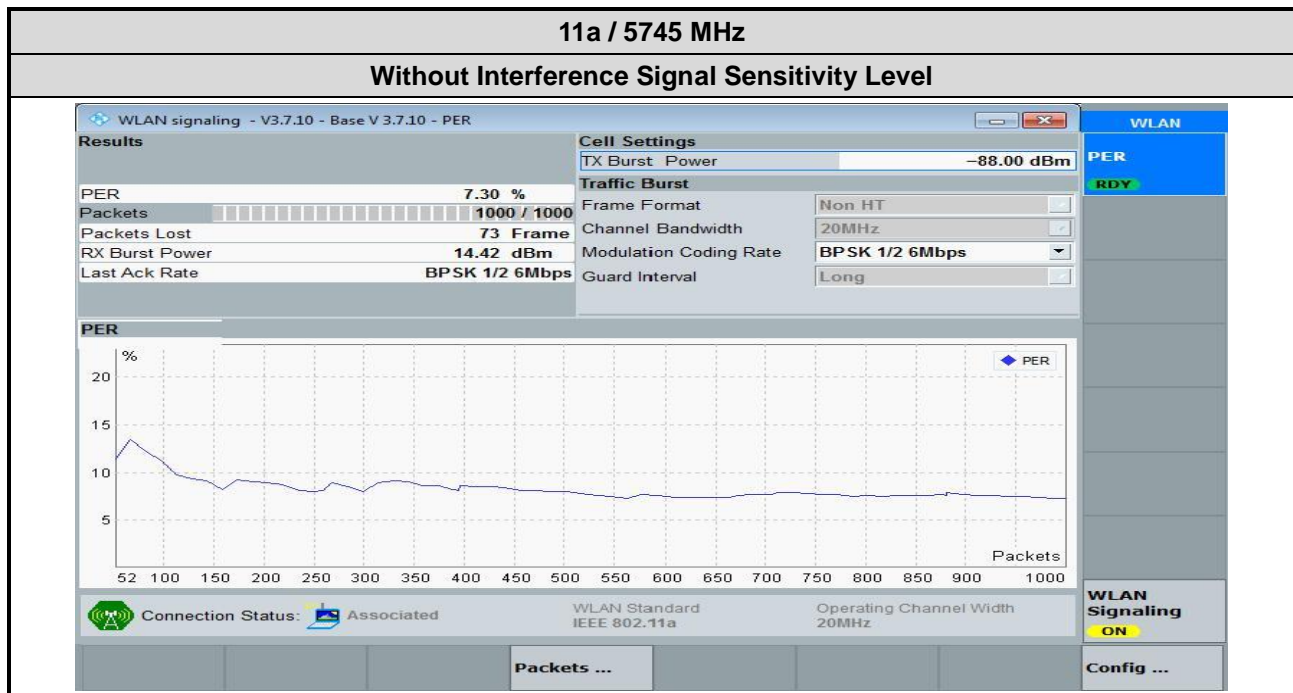
4.3.2 Test Procedures

Reference to clause 4.3.4.3 of ETSI EN 300 440 V2.1.1 (2017-03).

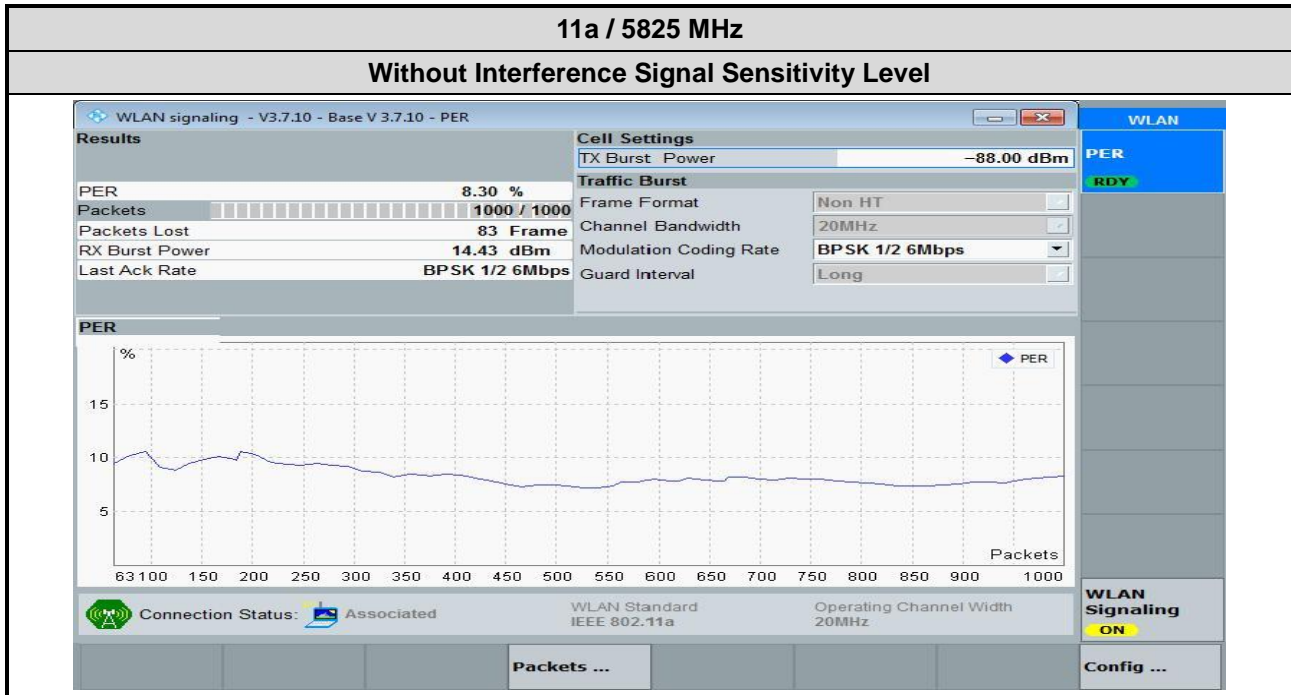
4.3.3 Test Setup



4.3.4 Test Result of Receiver Blocking



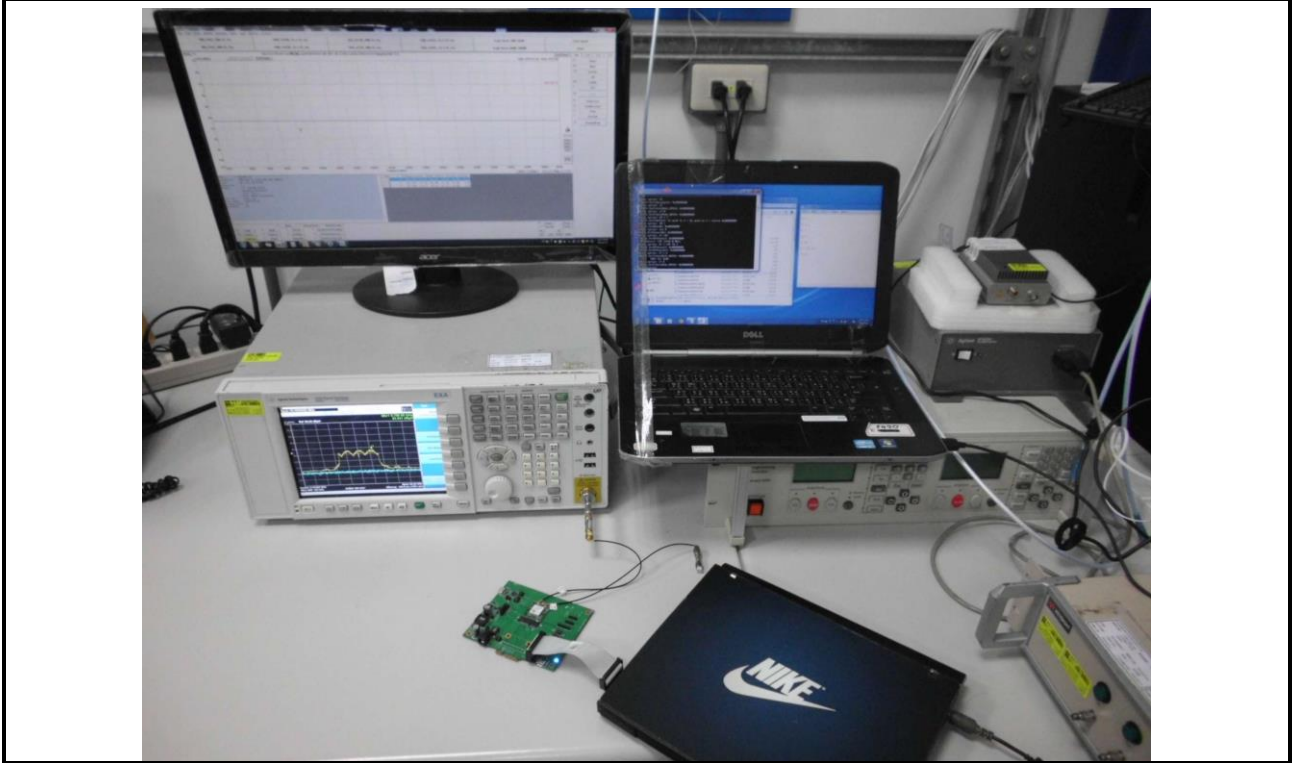
Receiver Category		1			
Signal Generator (MHz)	Communication Device (dBm)	Signal Generator (dBm)	Limit (dBm)	Test Result	
4725.00	-85.00	-26.60	-58.17	Pass	
5345.00	-85.00	-28.70	-58.17	Pass	
5545.00	-85.00	-31.50	-58.17	Pass	



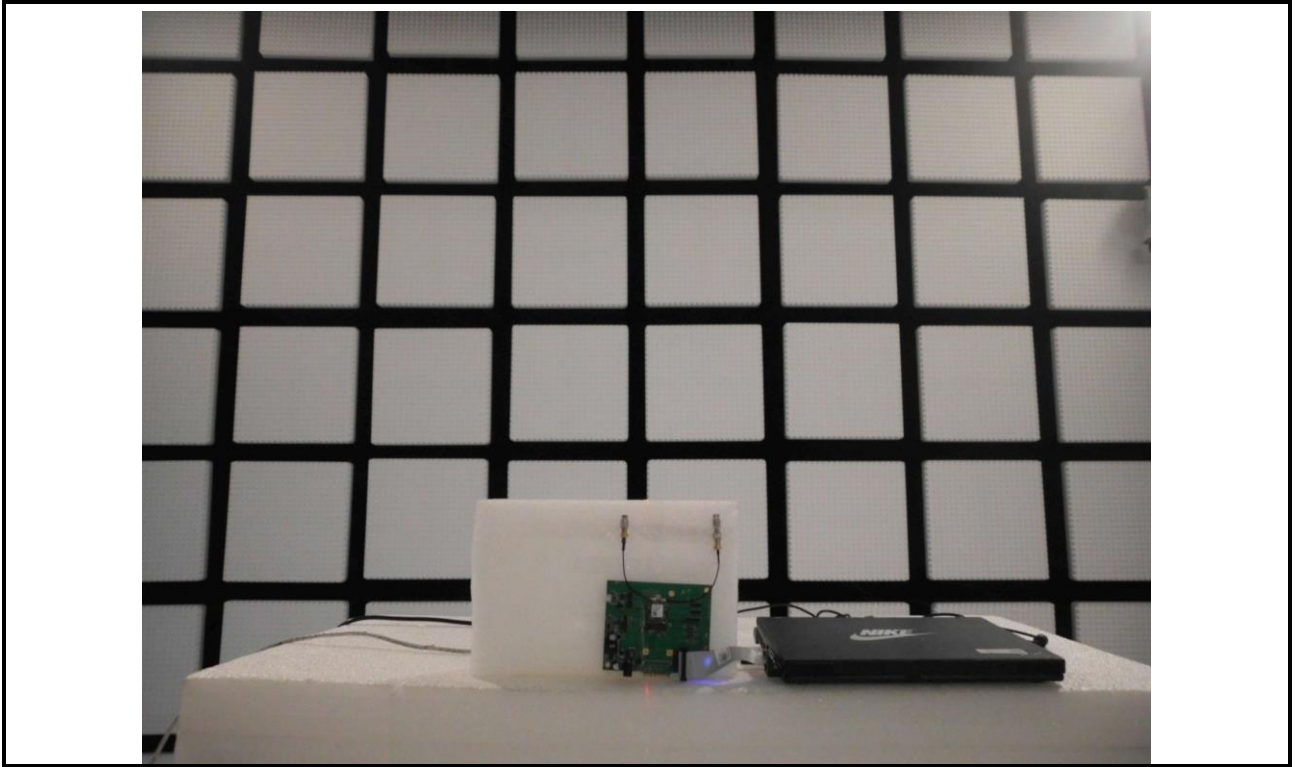
Receiver Category	1			
Signal Generator (MHz)	Communication Device (dBm)	Signal Generator (dBm)	Limit (dBm)	Test Result
6075	-85.00	-30.50	-58.39	Pass
6275	-85.00	-27.30	-58.39	Pass
6875	-85.00	-25.60	-58.39	Pass

5 Photographs of the Test Configuration

Conducted Spurious Emission Test



Radiated Spurious Emission Test



Receiver Blocking Test



6 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

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Kou District, New Taipei City,
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Kwei Shan

Tel: 886-3-271-8666

No. 3-1, Lane 6, Wen San 3rd St.,
Kwei Shan District, Tao Yuan City
333, Taiwan, R.O.C.

Kwei Shan Site II

Tel: 886-3-271-8640

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

Tel: 886-3-271-8666

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Email: ICC_Service@icertifi.com.tw

==END==