

IC C2PC Test Report

IC : 6616A-SDCMSD40NBT
Equipment : 802.11 abgn 1x with BT
Model No. : SDC-MSD40NBT
Brand Name : Laird
Applicant : Laird Technologies
Address : W66N220 Commerce Court, Cedarburg,
Wisconsin 53012, USA
Standard : RSS-247 Issue 2 February 2017
Received Date : Feb. 22, 2018
Tested Date : Feb. 23 ~ Mar. 08, 2018

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:


Along Chen / Assistant Manager

Approved by:


Gary Chang / Manager



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Release Record

Report No.	Version	Description	Issued Date
CR522601-01AN	Rev. 01	Initial issue	Jun. 29, 2018

Summary of Test Results

IC Rules	Test Items	Measured	Result
RSS-Gen Section 8.8	Conducted Emissions	[dBuV]: 0.198MHz 49.17 (Margin -14.54dB) - QP	Pass
RSS-247 Section 6.2.1.2 RSS-247 Section 6.2.2.2 RSS-247 Section 6.2.3.2 RSS-247 Section 6.2.4.2	Radiated Emissions	[dBuV/m at 3m]: 792.50MHz 44.91 (Margin -1.09dB) - QP	Pass
RSS-247 Section 6.2.1.1 RSS-247 Section 6.2.2.1 RSS-247 Section 6.2.3.1 RSS-247 Section 6.2.4.1	Emission Bandwidth	Meet the requirement of limit	Pass
RSS-247 Section 6.2.4.1	6dB bandwidth	Meet the requirement of limit	Pass
RSS-247 Section 6.2.1.1 RSS-247 Section 6.2.2.1 RSS-247 Section 6.2.3.1 RSS-247 Section 6.2.4.1	RF Output Power	Max Power [dBm]: 5150~5250MHz: 10.46 5250~5350MHz: 14.15 5470~5725MHz: 14.62 5725~5850MHz: 15.61	Pass
RSS-247 Section 6.2.1.1 RSS-247 Section 6.2.2.1 RSS-247 Section 6.2.3.1 RSS-247 Section 6.2.4.1	Peak Power Spectral Density	Meet the requirement of limit	Pass
---	Frequency Stability	Meet the requirement of limit	Pass
---	Antenna Requirement	Meet the requirement of limit	Pass

1 General Description

1.1 Information

This is a Class II Permissive Change report (C2PC).

This report is issued as an IC reassessment for complying with RSS-247 rule requirement. In this test report, all test items has been re-tested and its data was recorded in the following sections.

1.1.1 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
5150-5250 5250-5350 5470-5725 5725-5850	a	5180-5240 5260-5320 5500-5700 5745-5825	36-48 [4] 52-64 [4] 100-140 [8] 149-165 [5]	1	6-54 Mbps
5150-5250 5250-5350 5470-5725 5725-5850	n (HT20)	5180-5240 5260-5320 5500-5700 5745-5825	36-48 [4] 52-64 [4] 100-140 [8] 149-165 [5]	1	MCS 0-7

Note 1: RF output power specifies that Maximum Conducted Output Power.
 Note 2: 802.11a/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.

1.1.2 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	Cisco AIR-ANT 4941	Dipole Antenna	RP-TNC plug	2	---			
2	Radiall Larsen R380.500.314	Dipole Antenna	RP-TNC plug	1.6	5			

Note: Ant. No. 1 was for 2.4G final test.

Ant. No. 2 was for 5G final test.

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	3.3Vdc from host
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1.1.4 Accessories

N/A

1.1.5 Channel List

802.11 a / HT20	
Channel	Frequency(MHz)
36	5180
40	5200
44	5220
48	5240
52	5260
56	5280
60	5300
64	5320
100	5500
104	5520
108	5540
112	5560
116	5580
132	5660
136	5680
140	5700
149	5745
153	5765
157	5785
161	5805
165	5825

1.1.6 Test Tool and Duty Cycle

Test Tool	Putty, V0.60.0.0		
Duty Cycle and Duty Factor	Mode	Duty cycle (%)	Duty factor (dB)
	11a	96.98%	0.13
	HT20	96.05%	0.18

1.1.7 Power Setting

For Frequency band 5150-5250 MHz		
Modulation Mode	Test Frequency (MHz)	Power Set
11a	5180	9
11a	5200	9
11a	5240	9
HT20	5180	8
HT20	5200	8
HT20	5240	9

For Frequency band 5250~5350 MHz		
Modulation Mode	Test Frequency (MHz)	Power Set
11a	5260	11
11a	5300	12
11a	5320	9
HT20	5260	10
HT20	5300	11
HT20	5320	8

For Frequency band 5470~5725 MHz		
Modulation Mode	Test Frequency (MHz)	Power Set
11a	5500	12
11a	5580	11
11a	5700	9
HT20	5500	11
HT20	5580	11
HT20	5700	10

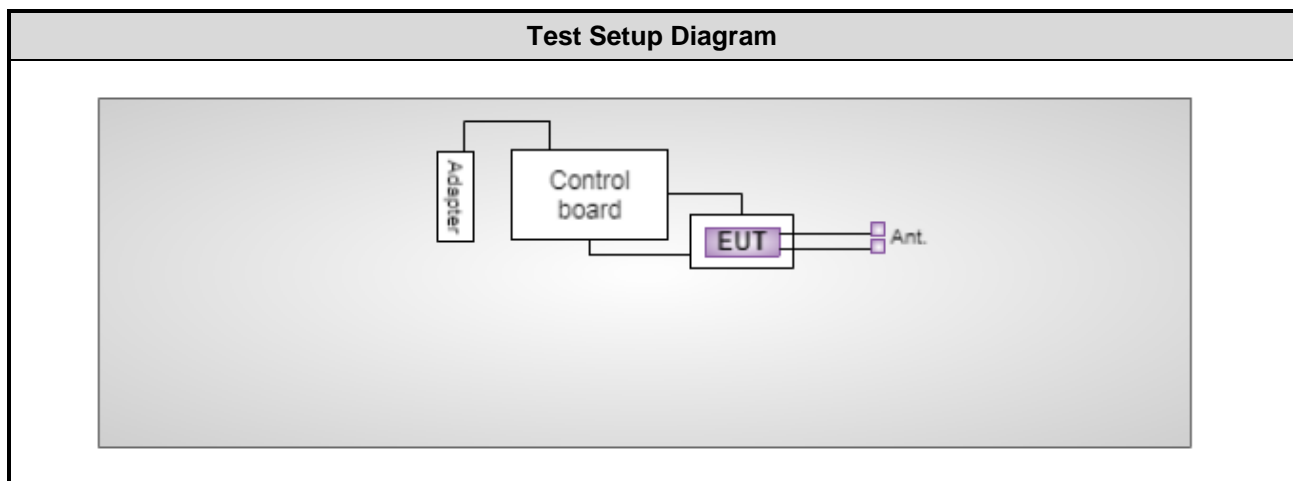
For Frequency band 5725~5850 MHz		
Modulation Mode	Test Frequency (MHz)	Power Set
11a	5745	14
11a	5785	14
11a	5825	14
HT20	5745	14
HT20	5785	14
HT20	5825	14

1.2 Local Support Equipment List

Support Equipment List						
No.	Equipment	Brand	Model	S/N	FCC ID	Signal cable / Length (m)
1	Notebook	DELL	Latitude E6430	9ZFB4X 1	---	---
2	Control board	---	---	---	---	---
3	Fixture	---	---	---	---	---

Note: No.2 ~ No.3 were provided by applicant.

1.3 Test Setup Chart



Note: The support notebook was disconnected from EUT and removed from test table when EUT is set to transmit continuously.

1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Mar. 06, 2018				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Jan. 05, 2018	Jan. 04, 2019
LISN	SCHWARZBECK	Schwarzbeck 8127	8127-667	Nov. 13, 2017	Nov. 12, 2018
RF Cable-CON	EMC	EMCCFD300-BM-B M-6000	50821	Dec. 18, 2017	Dec. 17, 2018
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Feb. 23 ~ Mar. 02, 2018				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101498	Dec. 04, 2017	Dec. 03, 2018
Receiver	R&S	ESR3	101658	Nov. 20, 2017	Nov. 19, 2018
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jul. 25, 2017	Jul. 24, 2018
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 20, 2017	Dec. 19, 2018
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 23, 2017	Nov. 22, 2018
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 13, 2017	Nov. 12, 2018
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Dec. 07, 2017	Dec. 06, 2018
Preamplifier	EMC	EMC02325	980225	Jul. 28, 2017	Jul. 27, 2018
Preamplifier	Agilent	83017A	MY39501308	Oct. 06, 2017	Oct. 05, 2018
Preamplifier	EMC	EMC184045B	980192	Aug. 22, 2017	Aug. 21, 2018
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Dec. 07, 2017	Dec. 06, 2018
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Dec. 07, 2017	Dec. 06, 2018
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16139/4	Dec. 07, 2017	Dec. 06, 2018
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	16052	Dec. 07, 2017	Dec. 06, 2018
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Dec. 07, 2017	Dec. 06, 2018
LF cable 10M	Woken	CFD400NL-LW	CFD400NL-002	Dec. 07, 2017	Dec. 06, 2018
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Mar. 08, 2018				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101499	Jan. 03, 2018	Jan. 02, 2019
Power Meter	Anritsu	ML2495A	1241002	Oct. 16, 2017	Oct. 15, 2018
Power Sensor	Anritsu	MA2411B	1207366	Oct. 16, 2017	Oct. 15, 2018
DC POWER SOURCE	GW INSTEK	GPC-6030D	EM892433	Oct. 26, 2017	Oct. 25, 2018
Measurement Software	Sporton	Sporton_1	1.3.30	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Testing Applied Standards

According to the specification of EUT, the EUT must comply with following standards and KDB documents.

RSS-247 Issue 2 February 2017

RSS-Gen Issue 5 April 2018

ANSI C63.10-2013

ANSI C63.4-2014

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

FCC KDB 412172 D01 Determining ERP and EIRP v01r01

1.6 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
Bandwidth	± 34.134 Hz
Conducted power	± 0.808 dB
Frequency error	± 34.134 Hz
Power density	± 0.463 dB
Conducted emission	± 2.670 dB
AC conducted emission	± 2.90 dB
Radiated emission ≤ 1 GHz	± 3.66 dB
Radiated emission > 1 GHz	± 5.63 dB
Time	$\pm 0.1\%$
Temperature	± 0.6 °C

2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
AC Conduction	CO01-WS	22°C / 58%	Alex Tsai
Radiated Emissions	03CH01-WS	23-25°C / 60-64%	Akun Cheng Roger Lu Vincent Yeh
RF Conducted	TH01-WS	22°C / 63%	Brad Wu

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- IC site registration No.: 10807A-1

2.2 The Worst Test Modes and Channel Details

Frequency band 5150~5250 MHz / 5250~5350 MHz / 5470~5725 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate (Mbps) / MCS	Test Configuration
Conducted Emissions	11a	5500	6 Mbps	---
Radiated Emissions ≤1GHz	11a	5500	6 Mbps	---
Radiated Emissions >1GHz	11a	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700	6 Mbps	---
	HT20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700	MCS 0	
RF Output Power Emission Bandwidth Peak Power Spectral Density	11a	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700	6 Mbps	---
	HT20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700	MCS 0	
Frequency Stability	Un-modulation	5320	---	---

NOTE: The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **X-plane** results were found as the worst case and were shown in this report.

Frequency band 5725-5850 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate (Mbps) / MCS	Test Configuration
Conducted Emissions	11a	5745	6 Mbps	---
Radiated Emissions ≤ 1 GHz	11a	5745	6 Mbps	---
Radiated Emissions > 1 GHz	11a	5745 / 5785 / 5825	6 Mbps	---
	HT20	5745 / 5785 / 5825	MCS 0	---
Emission Bandwidth	11a	5745 / 5785 / 5825	6 Mbps	---
6dB bandwidth				---
Peak Power Spectral Density	HT20	5745 / 5785 / 5825	MCS 0	---
Frequency Stability	Un-modulation	5785	---	---
NOTE: The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.				

3 Transmitter Test Results

3.1 Conducted Emissions

3.1.1 Limit of Conducted Emissions

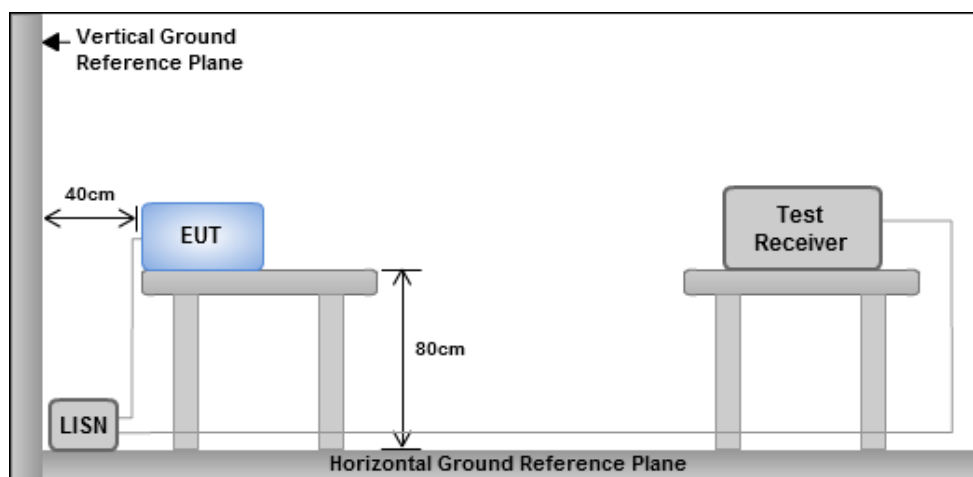
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

3.1.2 Test Procedures

1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50 Ω LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
4. This measurement was performed with AC 120V/60Hz

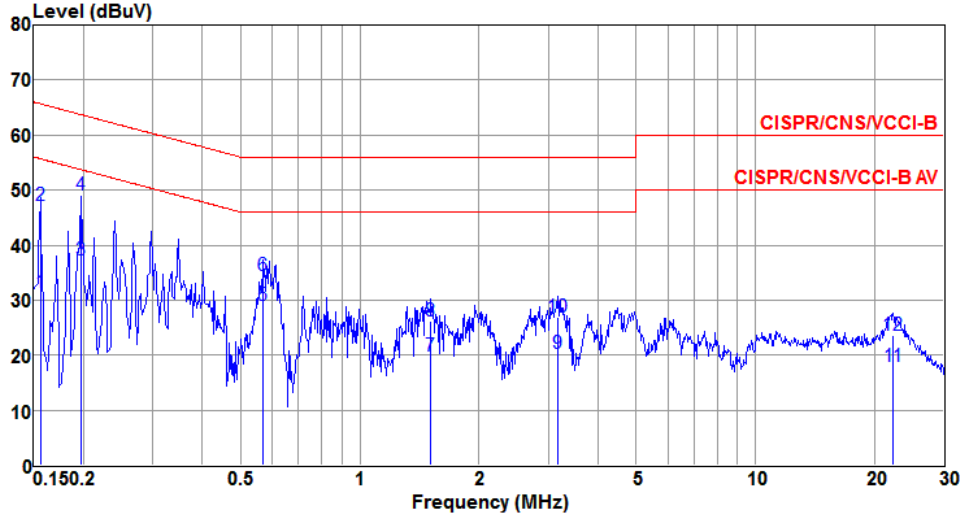
3.1.3 Test Setup



- Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.1.4 Test Result of Conducted Emissions

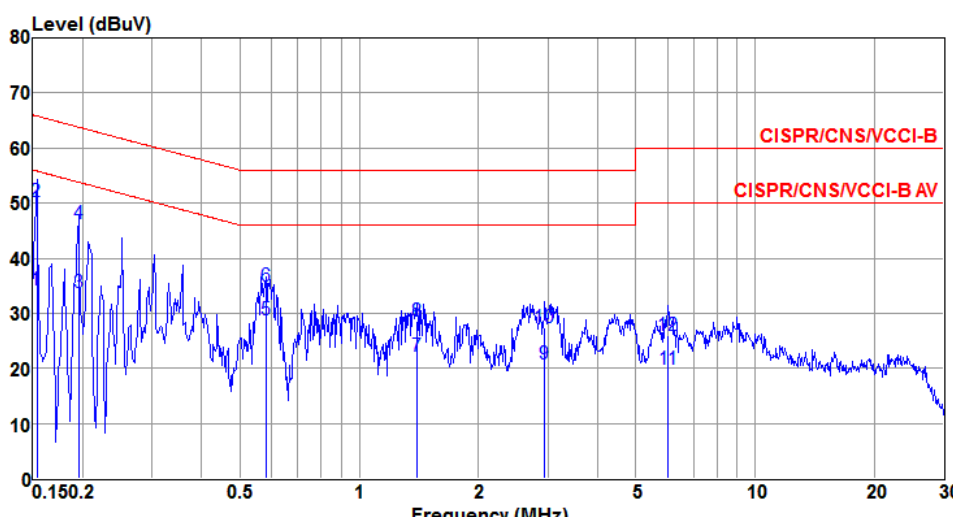
Modulation	11a	Test Freq. (MHz)	5500
Power Phase	Line		



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.156	31.30	55.69	-24.39	31.02	0.27	0.01	Average
2	0.156	47.10	65.69	-18.59	46.82	0.27	0.01	QP
3	0.198	37.29	53.71	-16.42	36.97	0.29	0.03	Average
4	0.198	49.17	63.71	-14.54	48.85	0.29	0.03	QP
5	0.570	28.95	46.00	-17.05	28.57	0.36	0.02	Average
6	0.570	34.57	56.00	-21.43	34.19	0.36	0.02	QP
7	1.511	19.76	46.00	-26.24	19.28	0.41	0.07	Average
8	1.511	26.26	56.00	-29.74	25.78	0.41	0.07	QP
9	3.156	20.22	46.00	-25.78	19.58	0.46	0.18	Average
10	3.156	26.81	56.00	-29.19	26.17	0.46	0.18	QP
11	22.298	18.00	50.00	-32.00	16.73	0.91	0.36	Average
12	22.298	23.68	60.00	-36.32	22.41	0.91	0.36	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
 Note 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation	11a	Test Freq. (MHz)	5500
Power Phase	Neutral		

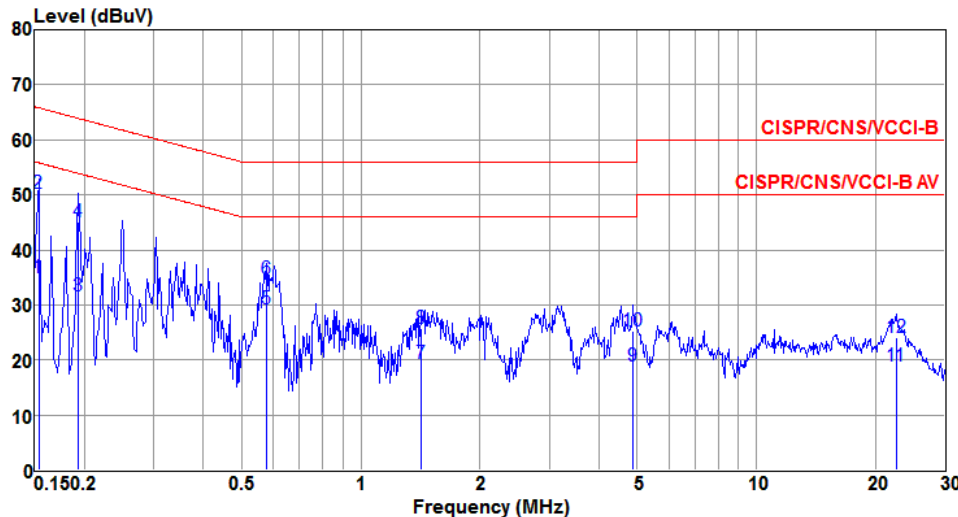


	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.153	34.30	55.82	-21.52	34.02	0.27	0.01	Average
2	0.153	50.16	65.82	-15.66	49.88	0.27	0.01	QP
3	0.195	33.87	53.80	-19.93	33.55	0.29	0.03	Average
4	0.195	46.38	63.80	-17.42	46.06	0.29	0.03	QP
5	0.582	28.69	46.00	-17.31	28.31	0.36	0.02	Average
6	0.582	34.96	56.00	-21.04	34.58	0.36	0.02	QP
7	1.396	22.13	46.00	-23.87	21.66	0.41	0.06	Average
8	1.396	28.49	56.00	-27.51	28.02	0.41	0.06	QP
9	2.946	20.67	46.00	-25.33	20.05	0.45	0.17	Average
10	2.946	27.33	56.00	-28.67	26.71	0.45	0.17	QP
11	6.024	19.73	50.00	-30.27	18.96	0.51	0.26	Average
12	6.024	25.95	60.00	-34.05	25.18	0.51	0.26	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation	11a	Test Freq. (MHz)	5745
Power Phase	Line		

Level (dBuV)



The graph displays the measured level in dBuV across a frequency range from 0.150.2 MHz to 30 MHz. Two red limit lines are shown: CISPR/CNS/VCCI-B (upper) and CISPR/CNS/VCCI-B AV (lower). The measured signal is represented by a blue line with peaks and valleys. The y-axis ranges from 0 to 80 dBuV, and the x-axis is logarithmic from 0.150.2 to 30 MHz.

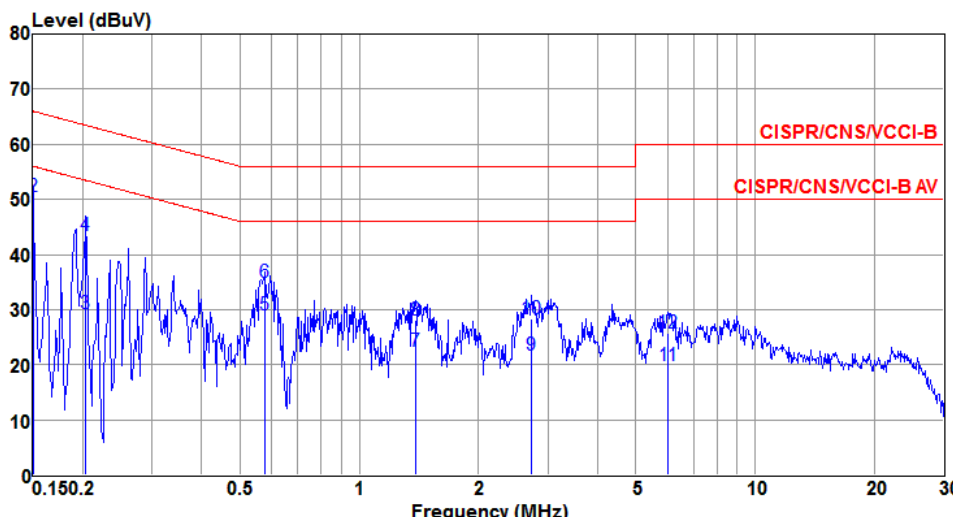
Frequency (MHz)

	Freq	Level	Limit	Over	Read	LISN	cable	Remark
	MHz	dBuV	Line	Limit	Level	factor	loss	
			dBuV	dB	dBuV	dB	dB	
1	0.153	35.01	55.82	-20.81	34.73	0.27	0.01	Average
2	0.153	50.22	65.82	-15.60	49.94	0.27	0.01	QP
3	0.192	31.57	53.93	-22.36	31.25	0.29	0.03	Average
4	0.192	45.02	63.93	-18.91	44.70	0.29	0.03	QP
5	0.579	29.28	46.00	-16.72	28.90	0.36	0.02	Average
6	0.579	34.78	56.00	-21.22	34.40	0.36	0.02	QP
7	1.426	19.28	46.00	-26.72	18.80	0.41	0.07	Average
8	1.426	25.71	56.00	-30.29	25.23	0.41	0.07	QP
9	4.874	18.88	46.00	-27.12	18.15	0.49	0.24	Average
10	4.874	25.24	56.00	-30.76	24.51	0.49	0.24	QP
11	22.535	18.79	50.00	-31.21	17.50	0.92	0.37	Average
12	22.535	24.14	60.00	-35.86	22.85	0.92	0.37	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).

2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation	11a	Test Freq. (MHz)	5745
Power Phase	Neutral		



The graph displays the measured level (blue line) against frequency (MHz) on a logarithmic scale. Two red limit lines are shown: CISPR/CNS/VCCI-B (upper) and CISPR/CNS/VCCI-B AV (lower). The measured level generally stays below the limits, with some peaks around 0.15 MHz and 0.5 MHz.

	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.150	35.56	56.00	-20.44	35.28	0.27	0.01	Average
2	0.150	50.57	66.00	-15.43	50.29	0.27	0.01	QP
3	0.204	29.36	53.45	-24.09	29.04	0.29	0.03	Average
4	0.204	43.35	63.45	-20.10	43.03	0.29	0.03	QP
5	0.579	28.94	46.00	-17.06	28.56	0.36	0.02	Average
6	0.579	34.88	56.00	-21.12	34.50	0.36	0.02	QP
7	1.388	22.33	46.00	-23.67	21.86	0.41	0.06	Average
8	1.388	28.17	56.00	-27.83	27.70	0.41	0.06	QP
9	2.721	21.70	46.00	-24.30	21.10	0.45	0.15	Average
10	2.721	28.37	56.00	-27.63	27.77	0.45	0.15	QP
11	6.024	19.77	50.00	-30.23	19.00	0.51	0.26	Average
12	6.024	25.84	60.00	-34.16	25.07	0.51	0.26	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

3.2 Emission Bandwidth

3.2.1 Limit of Emission Bandwidth

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

3.2.2 Test Procedures

26dB Bandwidth

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set the VBW > RBW, Detector = Peak.
3. Trace mode = max hold.
4. Measure the maximum width of the emission that is 26 dB down from the peak of the emission.

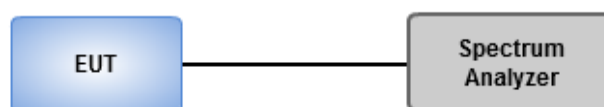
Occupied Bandwidth

1. Set RBW = 1 % to 5 % of the OBW
2. Set VBW \geq 3 RBW
3. Sample detection and single sweep mode shall be used
4. Use the 99 % power bandwidth function of the instrument

6dB Bandwidth

1. Set resolution bandwidth (RBW) = 1% to 5% of the anticipated emission, Video bandwidth = 3x the RBW.
2. Detector = Peak, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6dB relative to the maximum level measured in the fundamental emission.

3.2.3 Test Setup



3.2.4 Test Result of Emission Bandwidth

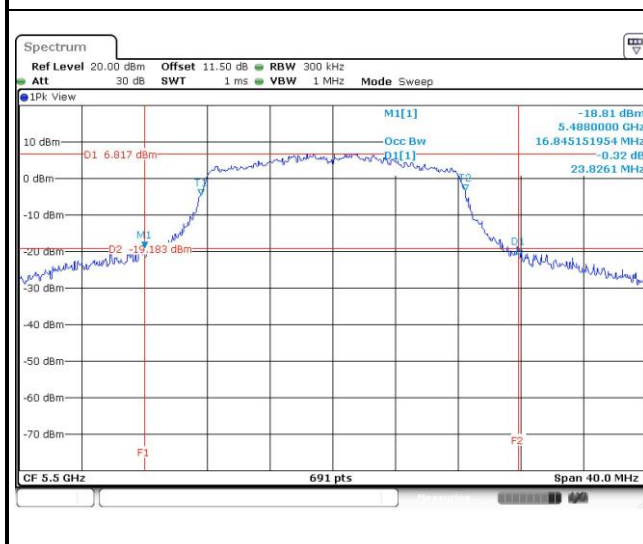
Frequency band 5150~5250 MHz											
Mode	N _{TX}	Freq. (MHz)	26dB Bandwidth (MHz)				99% Bandwidth (MHz)				Power Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3	
11a	1	5180	21.45	---	---	---	16.56	---	---	---	22.19
11a	1	5200	22.09	---	---	---	16.55	---	---	---	22.19
11a	1	5240	21.74	---	---	---	16.57	---	---	---	22.19
HT20	1	5180	22.32	---	---	---	17.79	---	---	---	22.50
HT20	1	5200	22.72	---	---	---	17.81	---	---	---	22.51
HT20	1	5240	23.19	---	---	---	17.78	---	---	---	22.50

For Frequency band 5250~5350 MHz											
Mode	N _{TX}	Freq. (MHz)	26dB Bandwidth (MHz)				99% Bandwidth (MHz)				Power Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3	
11a	1	5260	22.26	---	---	---	16.59	---	---	---	29.20
11a	1	5300	22.26	---	---	---	16.64	---	---	---	29.21
11a	1	5320	22.61	---	---	---	16.59	---	---	---	29.20
HT20	1	5260	22.67	---	---	---	17.81	---	---	---	29.51
HT20	1	5300	23.07	---	---	---	17.82	---	---	---	29.51
HT20	1	5320	22.67	---	---	---	17.81	---	---	---	29.51

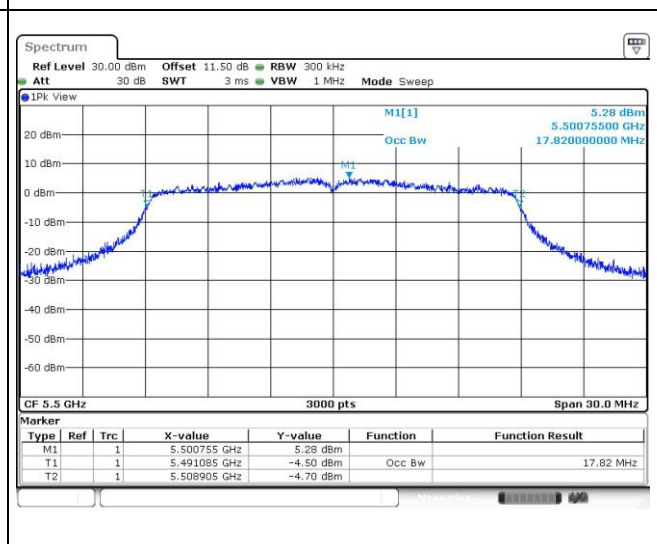
For Frequency band 5470~5725 MHz

Mode	N _{TX}	Freq. (MHz)	26dB Bandwidth (MHz)				99% Bandwidth (MHz)				Power Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3	
11a	1	5500	23.83	---	---	---	16.65	---	---	---	29.21
11a	1	5580	21.57	---	---	---	16.61	---	---	---	29.20
11a	1	5700	21.45	---	---	---	16.58	---	---	---	29.20
HT20	1	5500	22.78	---	---	---	17.82	---	---	---	29.51
HT20	1	5580	22.96	---	---	---	17.81	---	---	---	29.51
HT20	1	5700	22.49	---	---	---	17.81	---	---	---	29.51

Worst Plot of 26dB Bandwidth



Worst Plot of 99% Bandwidth

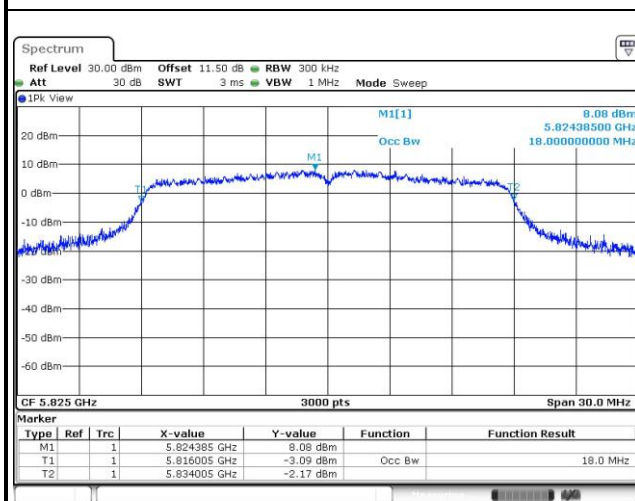


For Frequency band 5725-5850 MHz

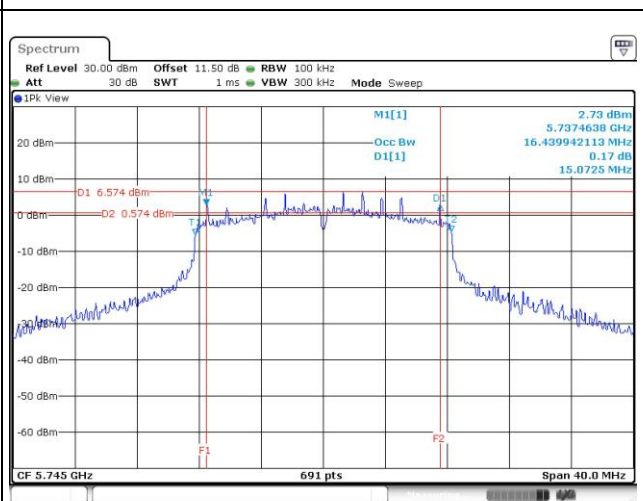
Emission Bandwidth

Mode	N _{TX}	Freq. (MHz)	OBW Bandwidth (MHz)				6dB Bandwidth (MHz)				
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3	6dB BW Limit (MHz)
11a	1	5745	16.85	---	---	---	15.07	---	---	---	0.5
11a	1	5785	16.79	---	---	---	15.07	---	---	---	0.5
11a	1	5825	16.80	---	---	---	15.07	---	---	---	0.5
HT20	1	5745	17.99	---	---	---	15.07	---	---	---	0.5
HT20	1	5785	17.98	---	---	---	15.13	---	---	---	0.5
HT20	1	5825	18.00	---	---	---	15.13	---	---	---	0.5

Worst Plot of 99% Bandwidth



Worst Plot of 6dB Bandwidth



3.3 RF Output Power

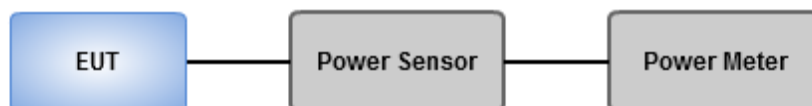
3.3.1 Limit of RF Output Power

Frequency Band (MHz)		Limit	
<input checked="" type="checkbox"/>	5150 ~ 5250	EIRP: 200mW or 10dBm+10 log B	
<input checked="" type="checkbox"/>	5250 ~ 5350	Conducted Power	250mW or 11dBm+10 log B
		EIRP	1W or 17dBm+10 log B
<input checked="" type="checkbox"/>	5470 ~ 5600 and 5650 ~ 5725	Conducted Power	250mW or 11dBm+10 log B
		EIRP	1W or 17dBm+10 log B
<input checked="" type="checkbox"/>	5725 ~ 5850	Conducted Power: 1 W	
Note: “B” is the 99% Occupied Bandwidth in MHz.			

3.3.2 Test Procedures

- ☒ Power meter (For channel that does not extends across the 5.725 GHz boundary)
- ☒ Measurements is performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required

3.3.3 Test Setup



3.3.4 Test Result of Maximum Conducted Output Power

Frequency band 5150~5250 MHz											
Mode	N _{TX}	Freq. (MHz)	Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Antenna Gain (dBi)	E.I.R.P (dBm)	E.I.R.P limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3					
11a	1	5180	9.64	---	---	---	9.204	9.64	5.00	14.64	22.19
11a	1	5200	9.92	---	---	---	9.817	9.92	5.00	14.92	22.19
11a	1	5240	10.46	---	---	---	11.117	10.46	5.00	15.46	22.19
HT20	1	5180	8.37	---	---	---	6.871	8.37	5.00	13.37	22.50
HT20	1	5200	8.76	---	---	---	7.516	8.76	5.00	13.76	22.51
HT20	1	5240	9.68	---	---	---	9.290	9.68	5.00	14.68	22.50

Frequency band 5250~5350 MHz												
Mode	N _{TX}	Freq. (MHz)	Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Antenna Gain (dBi)	E.I.R.P (dBm)	E.I.R.P limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3						
11a	1	5260	12.76	---	---	---	18.880	12.76	23.20	5.00	17.76	29.20
11a	1	5300	14.15	---	---	---	26.002	14.15	23.21	5.00	19.15	29.21
11a	1	5320	10.42	---	---	---	11.015	10.42	23.20	5.00	15.42	29.20
HT20	1	5260	11.73	---	---	---	14.894	11.73	23.51	5.00	16.73	29.51
HT20	1	5300	12.96	---	---	---	19.770	12.96	23.51	5.00	17.96	29.51
HT20	1	5320	8.47	---	---	---	7.031	8.47	23.51	5.00	13.47	29.51

Frequency band 5470 ~ 5725 MHz												
Mode	N _{TX}	Freq. (MHz)	Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Antenna Gain (dBi)	E.I.R.P (dBm)	E.I.R.P limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3						
11a	1	5500	14.62	---	---	---	28.973	14.62	23.21	5.00	19.62	29.21
11a	1	5580	13.25	---	---	---	21.135	13.25	23.20	5.00	18.25	29.20
11a	1	5700	8.02	---	---	---	6.339	8.02	23.20	5.00	13.02	29.20
HT20	1	5500	12.96	---	---	---	19.770	12.96	23.51	5.00	17.96	29.51
HT20	1	5580	12.48	---	---	---	17.701	12.48	23.51	5.00	17.48	29.51
HT20	1	5700	10.38	---	---	---	10.914	10.38	23.51	5.00	15.38	29.51

For Frequency band 5725-5850 MHz									
Mode	N _{TX}	Freq. (MHz)	Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
11a	1	5745	15.61	---	---	---	36.392	15.61	30.00
11a	1	5785	15.25	---	---	---	33.497	15.25	30.00
11a	1	5825	15.46	---	---	---	35.156	15.46	30.00
HT20	1	5745	15.51	---	---	---	35.563	15.51	30.00
HT20	1	5785	15.3	---	---	---	33.884	15.30	30.00
HT20	1	5825	15.28	---	---	---	33.729	15.28	30.00

3.4 Peak Power Spectral Density

3.4.1 Limit of Peak Power Spectral Density

Frequency Band (MHz)		Limit
<input checked="" type="checkbox"/>	5150 ~ 5250	The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.
<input checked="" type="checkbox"/>	5250 ~ 5350	The power spectral density shall not exceed 11 dBm in any 1.0 MHz band
<input checked="" type="checkbox"/>	5470 ~ 5600 and 5650 ~ 5725	The power spectral density shall not exceed 11 dBm in any 1.0 MHz band
<input checked="" type="checkbox"/>	5725 ~ 5850	The power spectral density shall not exceed 30 dBm in any 500 kHz band.

3.4.2 Test Procedures

For 5150~5250 MHz, 5250~5350 MHz, 5470~5725 MHz

☐ Method SA-1

1. Set RBW = 1 MHz, VBW = 3 MHz, Sweep time = auto, Detector = RMS.
2. Trace average 100 traces.
3. Use the peak marker function to determine the maximum amplitude level.

☒ Method SA-2 Alternative

1. Set RBW = 1 MHz, VBW = 3 MHz, Detector = RMS.
2. Set sweep time $\geq 10 * (\text{number of points in sweep}) * (\text{total on/off period of the transmitted signal})$.
3. Perform a single sweep.
4. Use the peak marker function to determine the maximum amplitude level.
5. Add $10 \log(1/x)$, where x is the duty cycle.

For 5725~5850 MHz

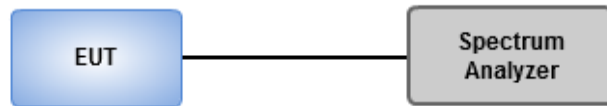
☐ Method SA-1

1. Set RBW = 500 kHz, VBW = 2 MHz, Sweep time = auto, Detector = RMS.
2. Trace average 100 traces.
3. Use the peak marker function to determine the maximum amplitude level.

☒ Method SA-2 Alternative

1. Set RBW = 500 kHz, VBW = 2 MHz, Detector = RMS.
2. Set sweep time $\geq 10 * (\text{number of points in sweep}) * (\text{total on/off period of the transmitted signal})$.
3. Perform a single sweep.
4. Use the peak marker function to determine the maximum amplitude level.
5. Add $10 \log(1/x)$, where x is the duty cycle.

3.4.3 Test Setup



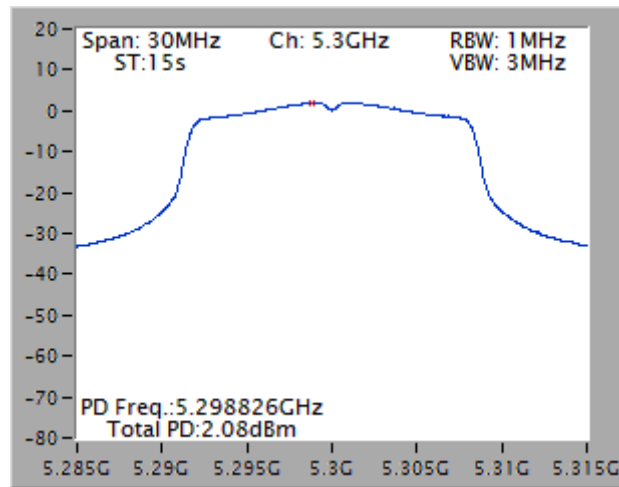
3.4.4 Test Result of Peak Power Spectral Density

Frequency band			5150~5250 MHz					
Condition			Peak Power Spectral Density (dBm)					
Mode	N _{TX}	Freq. (MHz)	PPSD w/o D.F (dBm)	Duty Factor (dB)	PPSD with D.F (dBm)	Ant. Gain (dBi)	E.I.R.P PSD (dBm)	E.I.R.P PSD limit (dBm)
11a	1	5180	-2.08	0.13	-1.95	5.00	3.05	10
11a	1	5200	-1.76	0.13	-1.63	5.00	3.37	10
11a	1	5240	-1.46	0.13	-1.33	5.00	3.67	10
HT20	1	5180	-4.42	0.18	-4.24	5.00	0.76	10
HT20	1	5200	-4.11	0.18	-3.93	5.00	1.07	10
HT20	1	5240	-2.09	0.18	-1.91	5.00	3.09	10

Frequency band			5250~5350 MHz						
Condition			Peak Power Spectral Density (dBm)						
Mode	N _{TX}	Freq. (MHz)	PPSD w/o D.F (dBm)	Duty Factor (dB)	PPSD with D.F (dBm)	Limit (dBm)	Ant. Gain (dBi)	E.I.R.P PSD (dBm)	E.I.R.P PSD limit (dBm)
11a	1	5260	0.99	0.13	1.12	11	5.00	6.12	17
11a	1	5300	2.08	0.13	2.21	11	5.00	7.21	17
11a	1	5320	-1.62	0.13	-1.49	11	5.00	3.51	17
HT20	1	5260	-0.80	0.18	-0.62	11	5.00	4.38	17
HT20	1	5300	0.33	0.18	0.51	11	5.00	5.51	17
HT20	1	5320	-3.53	0.18	-3.35	11	5.00	1.65	17

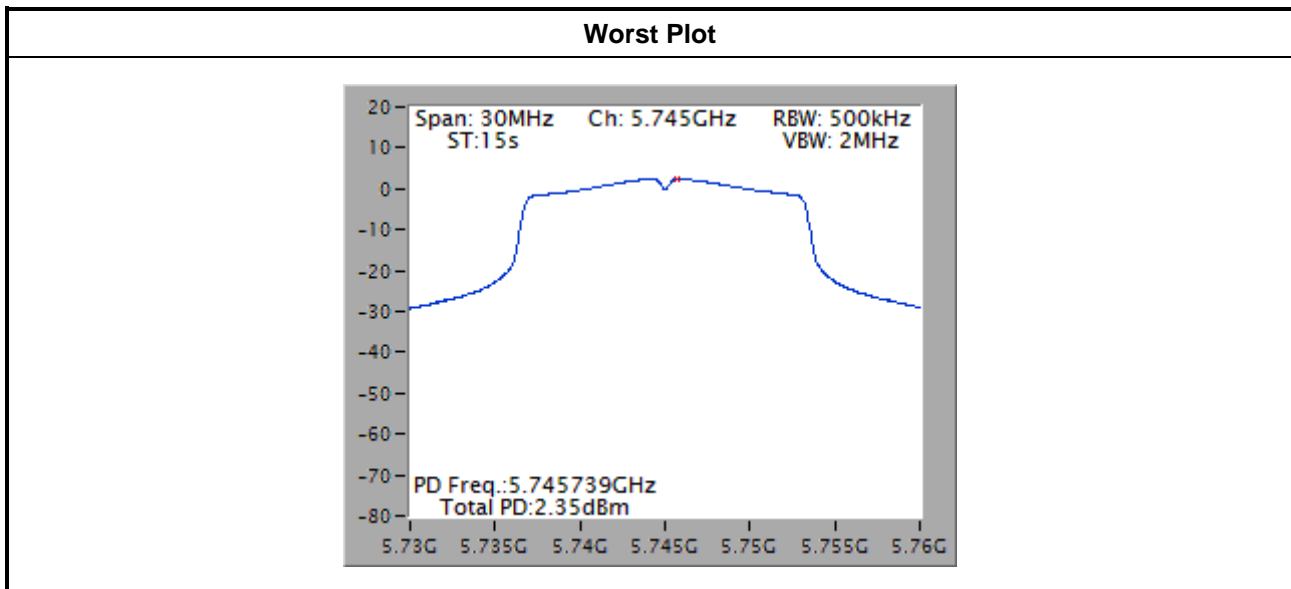
Frequency band			5470~5725 MHz						
Condition			Peak Power Spectral Density (dBm)						
Mode	N _{TX}	Freq. (MHz)	PPSD w/o D.F (dBm)	Duty Factor (dB)	PPSD with D.F (dBm)	Limit (dBm)	Ant. Gain (dBi)	E.I.R.P PSD (dBm)	E.I.R.P PSD limit (dBm)
11a	1	5500	1.99	0.13	2.12	11	5.00	7.12	17
11a	1	5580	0.16	0.13	0.29	11	5.00	5.29	17
11a	1	5700	-3.94	0.13	-3.81	11	5.00	1.19	17
HT20	1	5500	0.22	0.18	0.40	11	5.00	5.40	17
HT20	1	5580	-0.72	0.18	-0.54	11	5.00	4.46	17
HT20	1	5700	-2.22	0.18	-2.04	11	5.00	2.96	17

Worst Plot



Note: The plot without duty factor.

Frequency band			5725-5850 MHz			
Condition			Peak Power Spectral Density (dBm/500kHz)			
Mode	N _{TX}	Freq. (MHz)	PPSD w/o D.F (dBm/500kHz)	Duty Factor (dB)	PPSD with D.F (dBm/500kHz)	PPSD Limit (dBm/500kHz)
11a	1	5745	2.35	0.13	2.48	30.00
11a	1	5785	2.35	0.13	2.48	30.00
11a	1	5825	1.93	0.13	2.06	30.00
HT20	1	5745	1.71	0.18	1.89	30.00
HT20	1	5785	1.67	0.18	1.85	30.00
HT20	1	5825	1.37	0.18	1.55	30.00



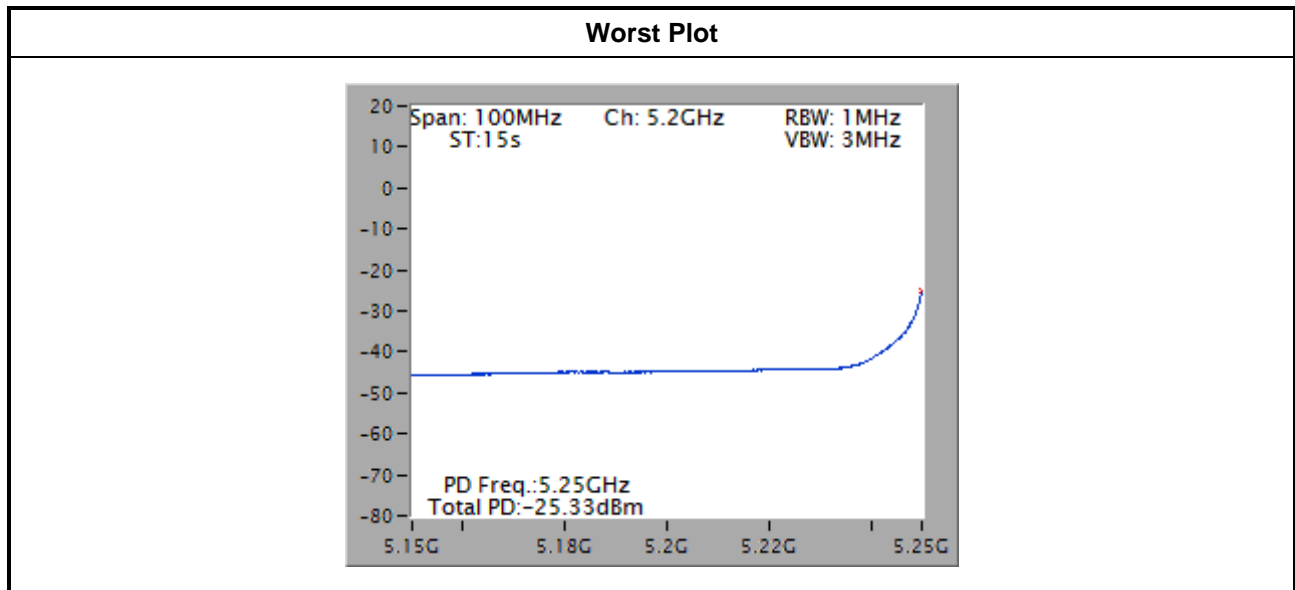
Note: The plot without duty factor.

3.4.5 Test Result of Peak Power Spectral Density for RSS-247 section 6.2.2

This item is to meet requirement of RSS-247 section 6.2.2.1 for devices with both operating frequencies and channel bandwidths contained within the band 5250-5350 MHz.

E.I.R.P. PSD for channels into 5150~5250MHz Band

Condition			Peak Power Spectral Density (dBm)						
Mode	N _{TX}	Freq. (MHz)	PPSD w/o D.F (dBm)	Duty Factor (dB)	PPSD with D.F (dBm)	PPSD Limit (dBm)	Ant. Gain (dBi)	E.I.R.P PSD (dBm)	E.I.R.P PSD limit (dBm)
11a	1	5260	-26.56	0.13	-26.43	---	5.00	-21.43	10
11a	1	5300	-44.09	0.13	-43.96	---	5.00	-38.96	10
11a	1	5320	-44.14	0.13	-44.01	---	5.00	-39.01	10
HT20	1	5260	-25.33	0.18	-25.15	---	5.00	-20.15	10
HT20	1	5300	-44.20	0.18	-44.02	---	5.00	-39.02	10
HT20	1	5320	-44.24	0.18	-44.06	---	5.00	-39.06	10



Note: The plot without duty factor.

3.5 Transmitter Radiated and Band Edge Emissions

3.5.1 Limit of Transmitter Radiated and Band Edge Emissions

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1:
Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.725 - 5.850 GHz	a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges; b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges; c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.

Note 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

3.5.2 Test Procedures

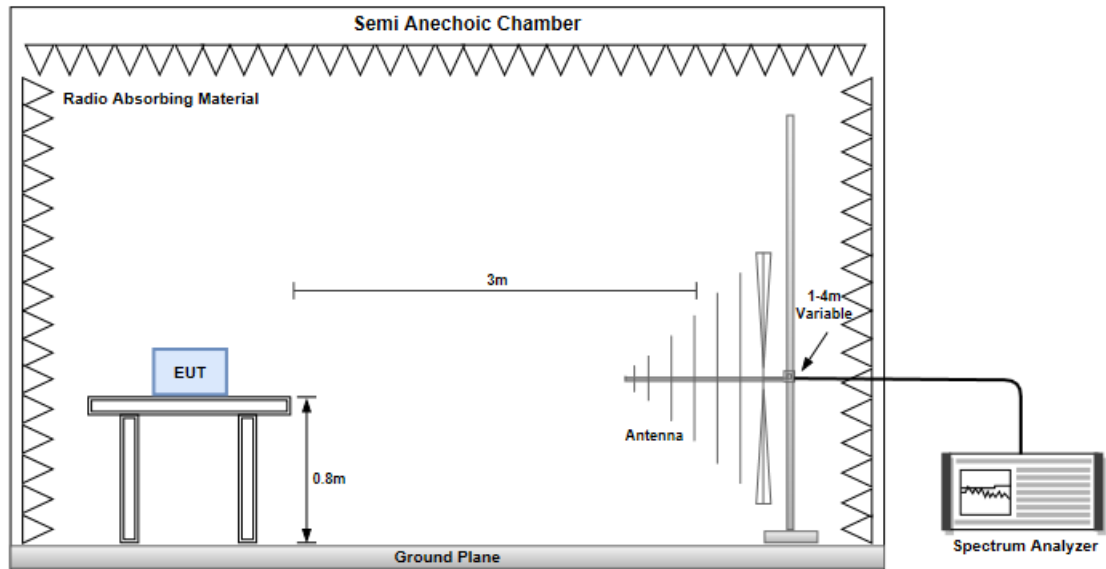
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360° . A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360° , the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

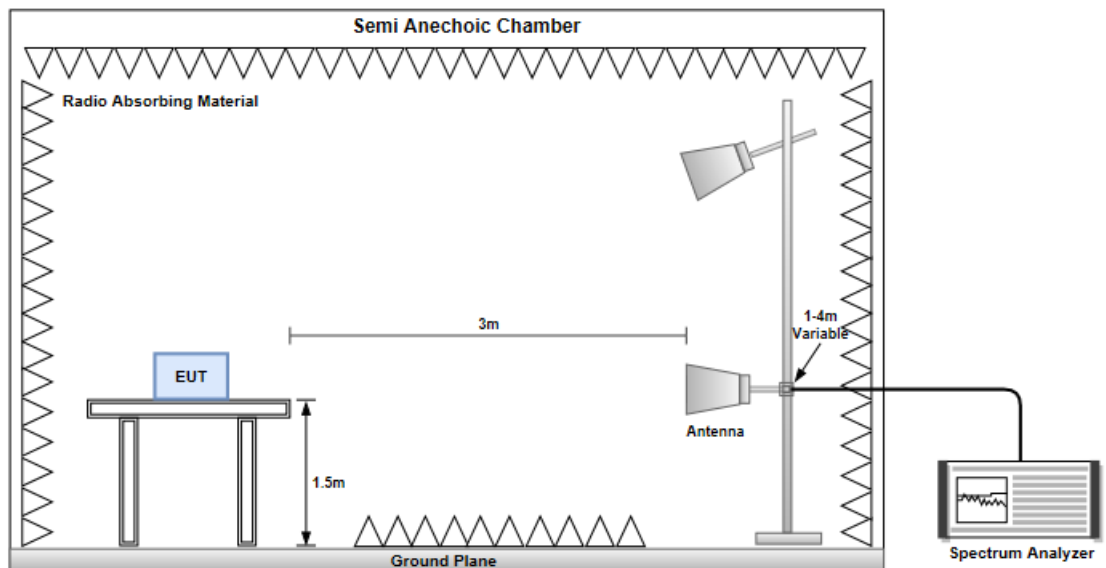
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

3.5.3 Test Setup

Radiated Emissions below 1 GHz

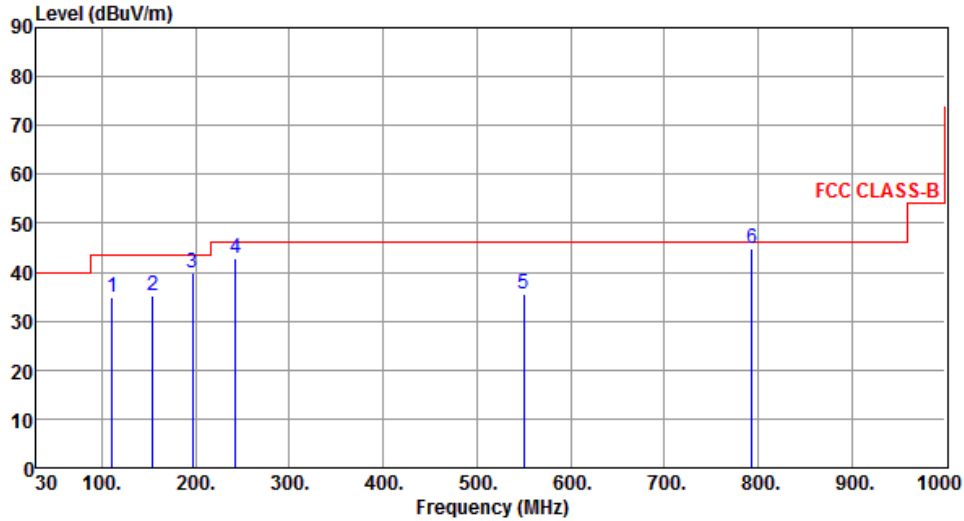


Radiated Emissions above 1 GHz



3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	11a	Test Freq. (MHz)	5500
Polarization	Horizontal		



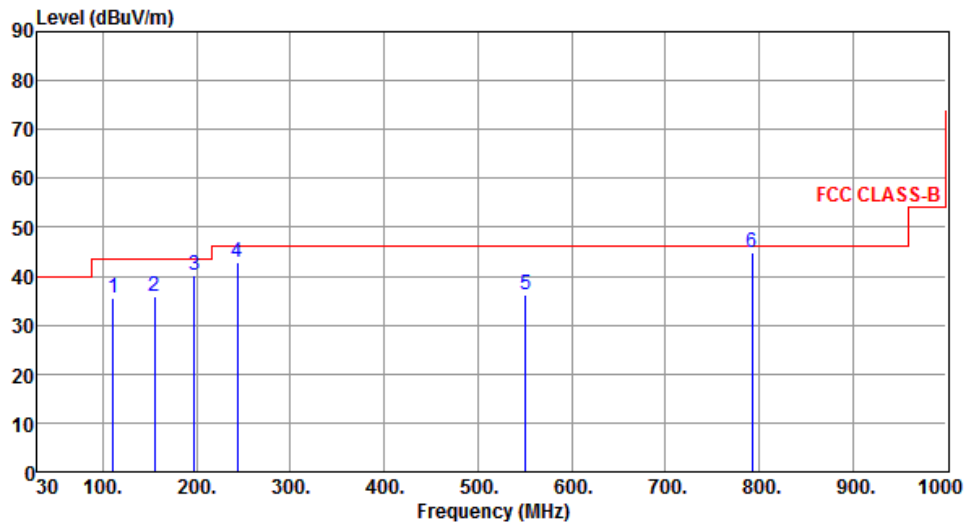
The graph displays the radiated unwanted emissions for a transmitter. The y-axis represents the Level in dBuV/m, ranging from 0 to 90. The x-axis represents the Frequency in MHz, ranging from 30 to 1000. A red line indicates the FCC CLASS-B limit, which is 40 dBuV/m from 30 MHz to 100 MHz, 45 dBuV/m from 100 MHz to 1000 MHz, and 55 dBuV/m above 1000 MHz. Six measured emission peaks are labeled with numbers 1 through 6. The data for these peaks is provided in the table below.

	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	110.51	34.93	43.50	-8.57	46.42	-11.49	Peak	---	---
2	154.16	35.26	43.50	-8.24	43.52	-8.26	Peak	---	---
3	196.84	39.73	43.50	-3.77	50.48	-10.75	Peak	---	---
4	242.18	42.72	46.00	-3.28	52.29	-9.57	QP	100	178
5	549.92	35.47	46.00	-10.53	37.20	-1.73	Peak	---	---
6	793.39	44.86	46.00	-1.14	42.55	2.31	QP	100	313

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
 *Factor includes antenna factor , cable loss and amplifier gain
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
 Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	11a	Test Freq. (MHz)	5500
Polarization	Vertical		
<div><div><div>Level (dBuV/m)</div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div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Modulation	11a	Test Freq. (MHz)	5745
Polarization	Horizontal		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	111.24	35.57	43.50	-7.93	47.00	-11.43	Peak	---	---
2	155.25	36.01	43.50	-7.49	44.25	-8.24	Peak	---	---
3	197.57	40.17	43.50	-3.33	50.92	-10.75	Peak	---	---
4	243.18	42.89	46.00	-3.11	52.43	-9.54	QP	100	181
5	550.87	36.28	46.00	-9.72	37.99	-1.71	Peak	---	---
6	792.50	44.91	46.00	-1.09	42.62	2.29	QP	100	323

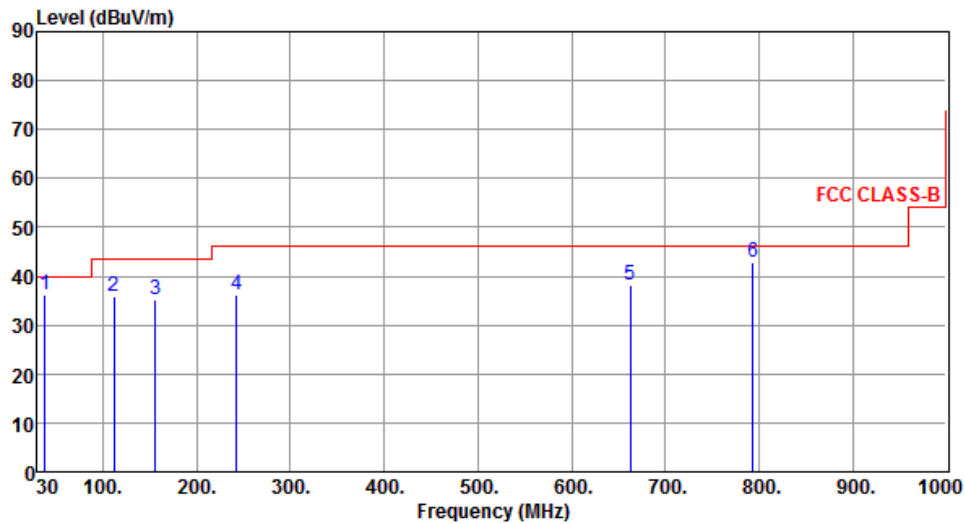
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

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



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	38.40	36.24	40.00	-3.76	44.45	-8.21	QP	100	51
2	112.17	35.94	43.50	-7.56	47.27	-11.33	Peak	---	---
3	155.64	35.14	43.50	-8.36	43.37	-8.23	Peak	---	---
4	242.71	36.24	46.00	-9.76	45.80	-9.56	Peak	---	---
5	662.72	38.20	46.00	-7.80	38.10	0.10	Peak	---	---
6	793.21	42.89	46.00	-3.11	40.58	2.31	QP	189	275

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

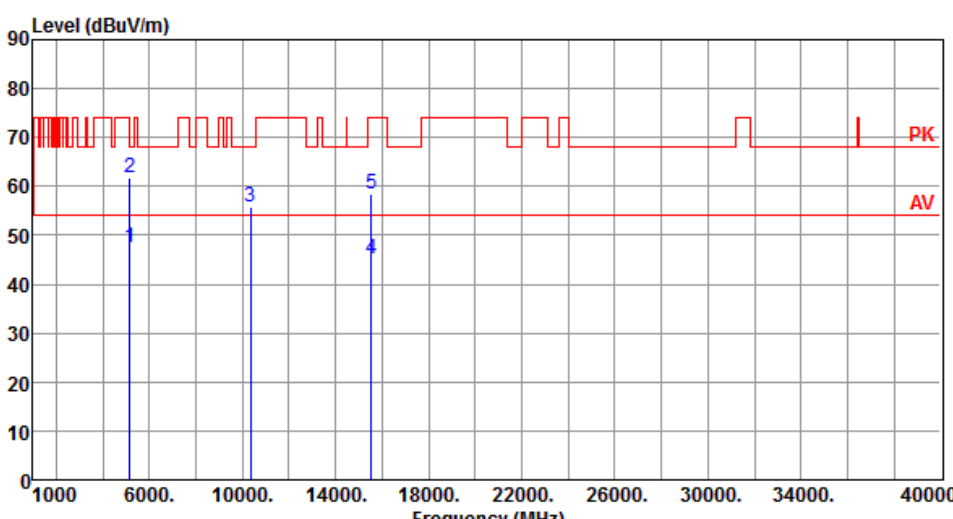
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

3.5.5 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11a

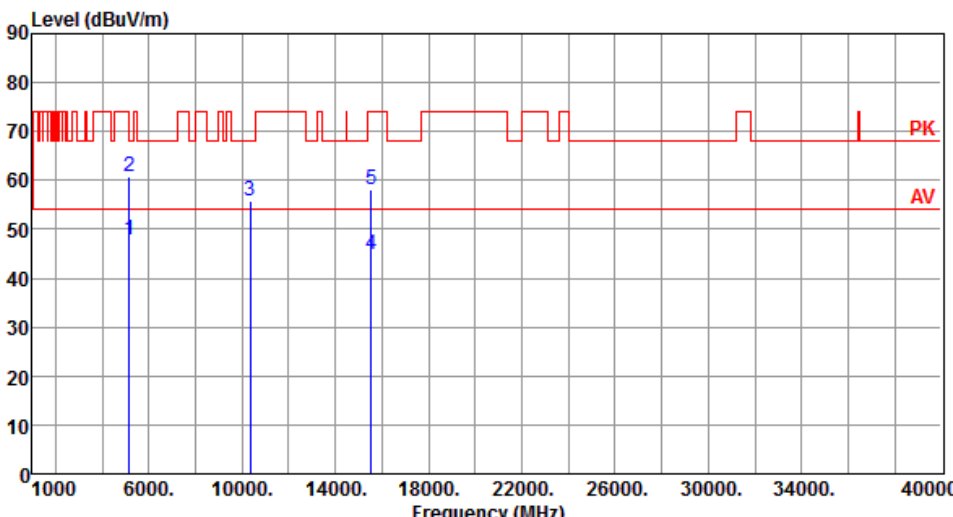
Modulation	11a	Test Freq. (MHz)	5180
Polarization	Horizontal		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	47.60	54.00	-6.40	43.32	4.28	Average	100	41
2	5150.00	61.65	74.00	-12.35	57.37	4.28	Peak	100	41
3	10360.00	55.87	68.20	-12.33	42.27	13.60	Peak	100	20
4	15540.00	45.03	54.00	-8.97	30.36	14.67	Average	100	50
5	15540.00	58.29	74.00	-15.71	43.62	14.67	Peak	100	50

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

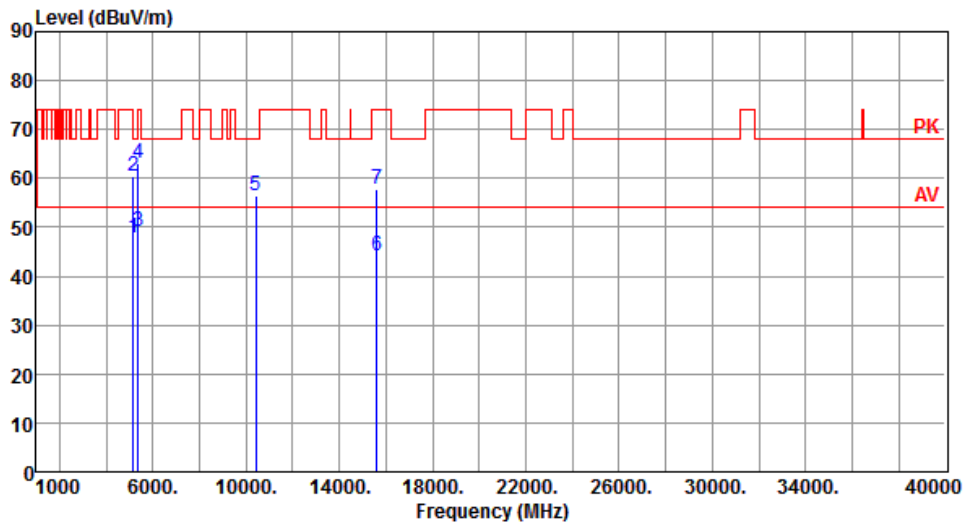
Modulation	11a	Test Freq. (MHz)	5180
Polarization	Vertical		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	47.87	54.00	-6.13	43.59	4.28	Average	176	343
2	5150.00	60.90	74.00	-13.10	56.62	4.28	Peak	176	343
3	10360.00	55.83	68.20	-12.37	42.23	13.60	Peak	100	60
4	15540.00	44.95	54.00	-9.05	30.28	14.67	Average	100	70
5	15540.00	58.27	74.00	-15.73	43.60	14.67	Peak	100	70

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

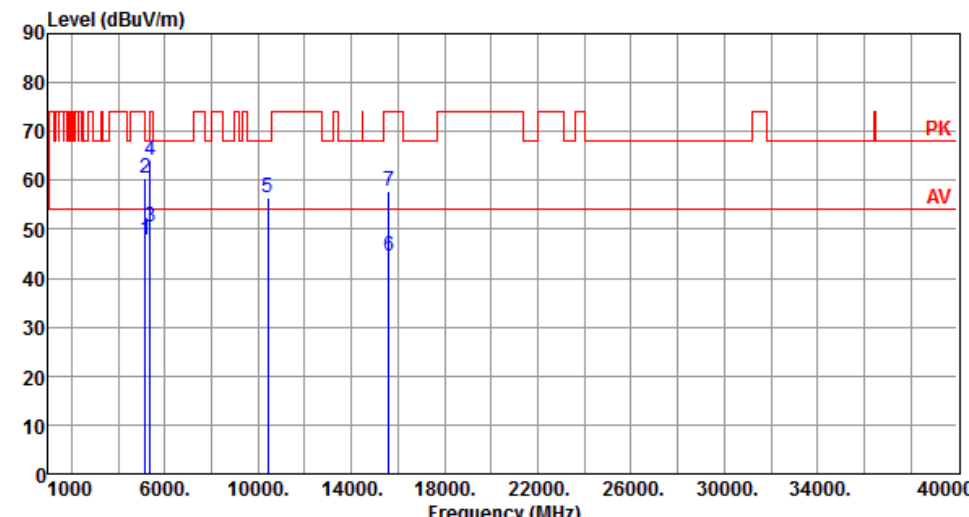
Modulation	11a	Test Freq. (MHz)	5200
Polarization	Horizontal		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	47.72	54.00	-6.28	43.44	4.28	Average	100	41
2	5150.00	60.53	74.00	-13.47	56.25	4.28	Peak	100	41
3	5360.00	49.29	54.00	-4.71	44.85	4.44	Average	100	41
4	5360.00	63.11	74.00	-10.89	58.67	4.44	Peak	100	41
5	10400.00	56.49	68.20	-11.71	42.85	13.64	Peak	100	25
6	15600.00	44.33	54.00	-9.67	29.75	14.58	Average	100	40
7	15600.00	57.84	74.00	-16.16	43.26	14.58	Peak	100	40

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

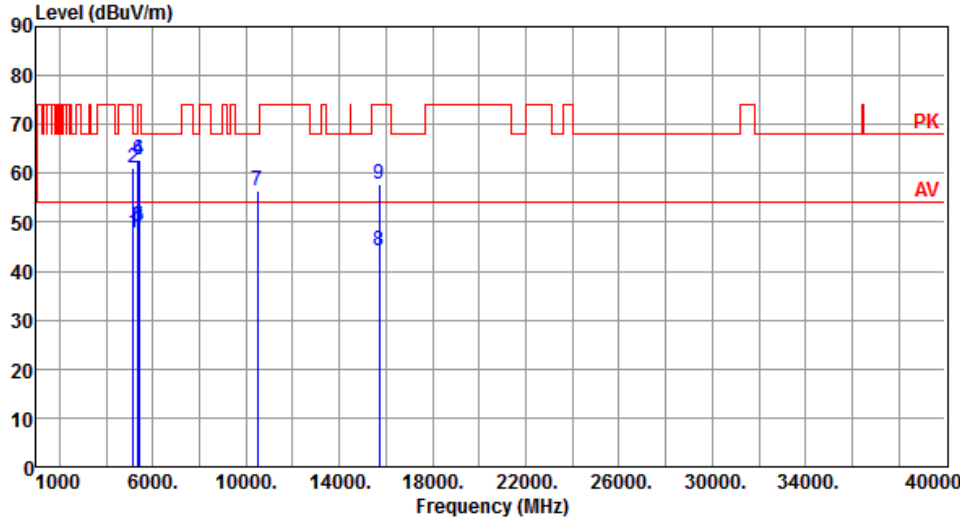
Modulation	11a	Test Freq. (MHz)	5200
Polarization	Vertical		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	47.67	54.00	-6.33	43.39	4.28	Average	184	328
2	5150.00	60.61	74.00	-13.39	56.33	4.28	Peak	184	328
3	5360.00	50.39	54.00	-3.61	45.95	4.44	Average	184	328
4	5360.00	64.15	74.00	-9.85	59.71	4.44	Peak	184	328
5	10400.00	56.33	68.20	-11.87	42.69	13.64	Peak	100	60
6	15600.00	44.43	54.00	-9.57	29.85	14.58	Average	100	90
7	15600.00	57.79	74.00	-16.21	43.21	14.58	Peak	100	90

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

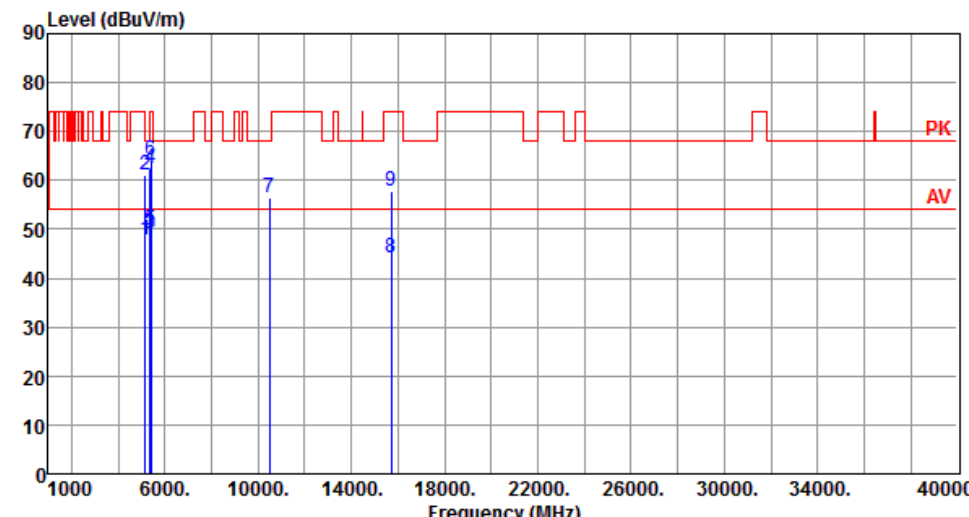
Modulation	11a	Test Freq. (MHz)	5240
Polarization	Horizontal		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	47.67	54.00	-6.33	43.39	4.28	Average	101	37
2	5150.00	61.26	74.00	-12.74	56.98	4.28	Peak	101	37
3	5350.00	49.18	54.00	-4.82	44.74	4.44	Average	101	37
4	5350.00	62.64	74.00	-11.36	58.20	4.44	Peak	101	37
5	5400.00	49.23	54.00	-4.77	44.76	4.47	Average	101	37
6	5400.00	62.83	74.00	-11.17	58.36	4.47	Peak	101	37
7	10480.00	56.45	68.20	-11.75	42.75	13.70	Peak	100	30
8	15720.00	44.18	54.00	-9.82	29.76	14.42	Average	100	70
9	15720.00	57.78	74.00	-16.22	43.36	14.42	Peak	100	70

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

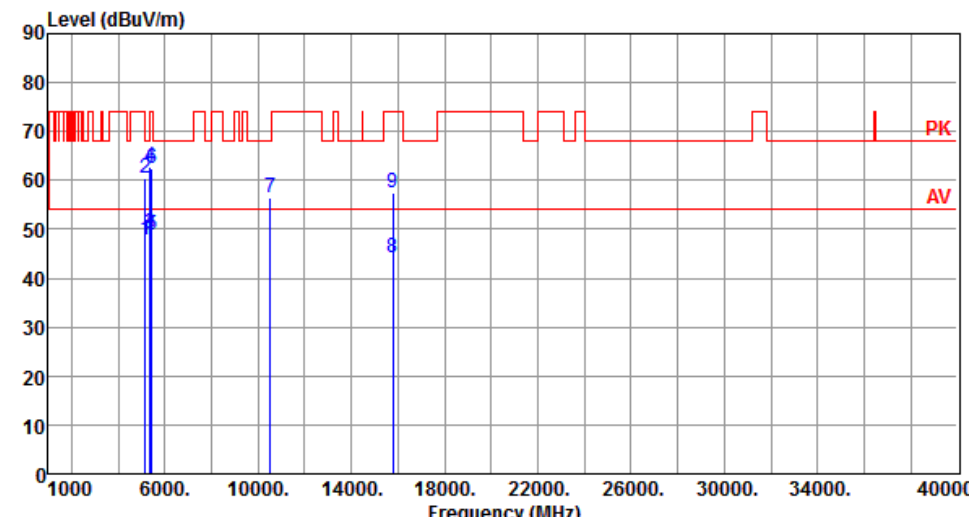
Modulation	11a	Test Freq. (MHz)	5240
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	47.68	54.00	-6.32	43.40	4.28	Average	151	324
2	5150.00	60.96	74.00	-13.04	56.68	4.28	Peak	151	324
3	5350.00	49.25	54.00	-4.75	44.81	4.44	Average	151	324
4	5350.00	62.56	74.00	-11.44	58.12	4.44	Peak	151	324
5	5400.00	49.96	54.00	-4.04	45.49	4.47	Average	151	324
6	5400.00	64.23	74.00	-9.77	59.76	4.47	Peak	151	324
7	10480.00	56.49	68.20	-11.71	42.79	13.70	Peak	100	60
8	15720.00	44.31	54.00	-9.69	29.89	14.42	Average	100	120
9	15720.00	57.70	74.00	-16.30	43.28	14.42	Peak	100	120

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5260
Polarization	Horizontal		

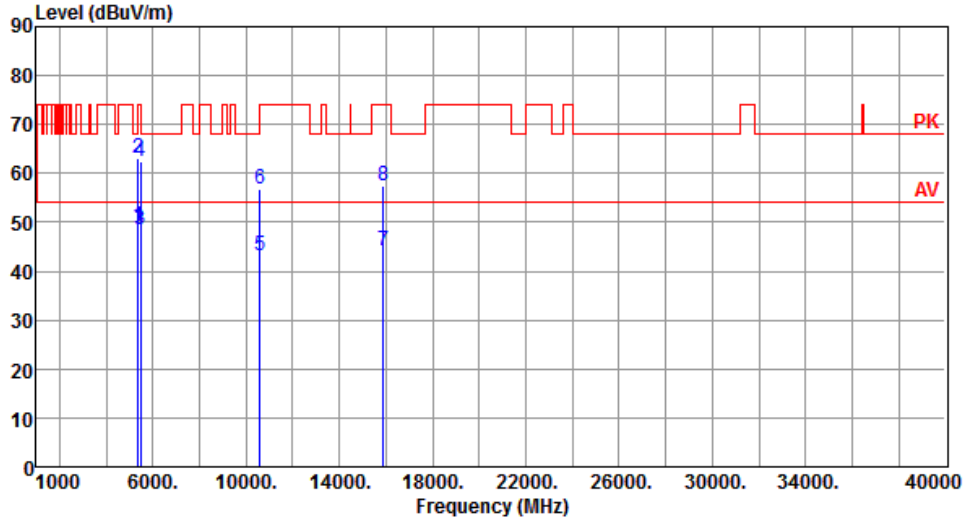


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	47.71	54.00	-6.29	43.43	4.28	Average	100	40
2	5150.00	60.51	74.00	-13.49	56.23	4.28	Peak	100	40
3	5350.00	49.24	54.00	-4.76	44.80	4.44	Average	100	40
4	5350.00	62.65	74.00	-11.35	58.21	4.44	Peak	100	40
5	5420.00	48.93	54.00	-5.07	44.45	4.48	Average	100	40
6	5420.00	62.59	74.00	-11.41	58.11	4.48	Peak	100	40
7	10520.00	56.37	68.20	-11.83	42.65	13.72	Peak	100	90
8	15780.00	44.08	54.00	-9.92	29.74	14.34	Average	100	70
9	15780.00	57.62	74.00	-16.38	43.28	14.34	Peak	100	70

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5260
Polarization	Vertical		
<div><div><div>Level (dBuV/m)</div><div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div>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Modulation	11a	Test Freq. (MHz)	5300
Polarization	Horizontal		

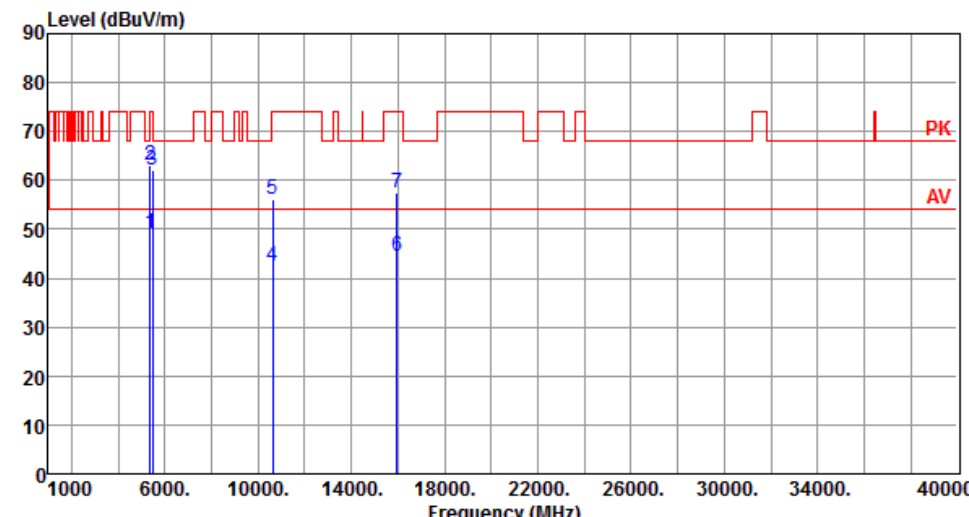


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	49.28	54.00	-4.72	44.84	4.44	Average	100	38
2	5350.00	63.03	74.00	-10.97	58.59	4.44	Peak	100	38
3	5460.00	48.43	54.00	-5.57	43.92	4.51	Average	100	38
4	5460.00	62.44	74.00	-11.56	57.93	4.51	Peak	100	38
5	10600.00	43.01	54.00	-10.99	29.21	13.80	Average	100	55
6	10600.00	56.69	74.00	-17.31	42.89	13.80	Peak	100	55
7	15900.00	44.31	54.00	-9.69	30.13	14.18	Average	100	70
8	15900.00	57.46	74.00	-16.54	43.28	14.18	Peak	100	70

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5300
Polarization	Vertical		
<div><div><div>Level (dBuV/m)</div><div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div>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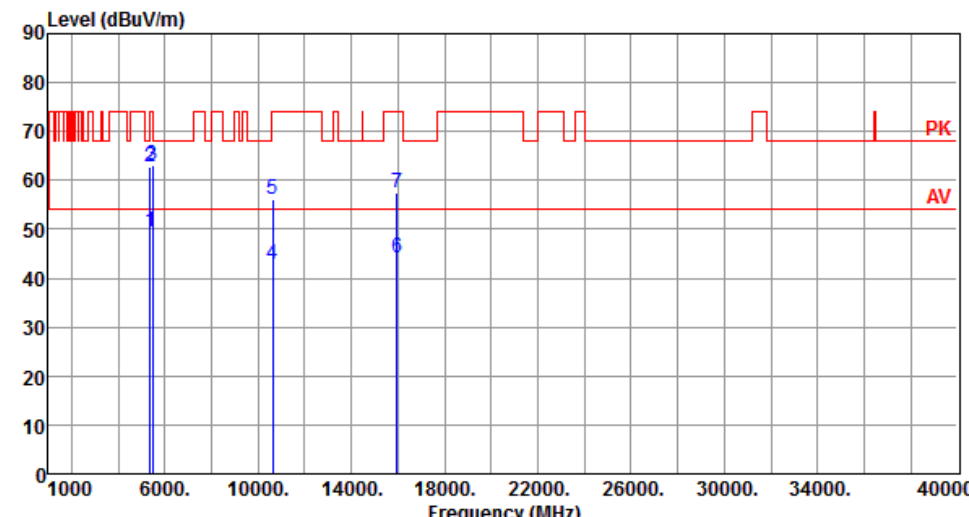
Modulation	11a	Test Freq. (MHz)	5320
Polarization	Horizontal		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	49.27	54.00	-4.73	44.83	4.44	Average	100	29
2	5350.00	63.21	74.00	-10.79	58.77	4.44	Peak	100	29
3	5480.00	62.23	68.20	-5.97	57.70	4.53	Peak	100	29
4	10640.00	42.54	54.00	-11.46	28.70	13.84	Average	100	30
5	10640.00	56.19	74.00	-17.81	42.35	13.84	Peak	100	30
6	15960.00	44.36	54.00	-9.64	30.27	14.09	Average	100	50
7	15960.00	57.58	74.00	-16.42	43.49	14.09	Peak	100	50

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11a	Test Freq. (MHz)	5320
Polarization	Vertical		

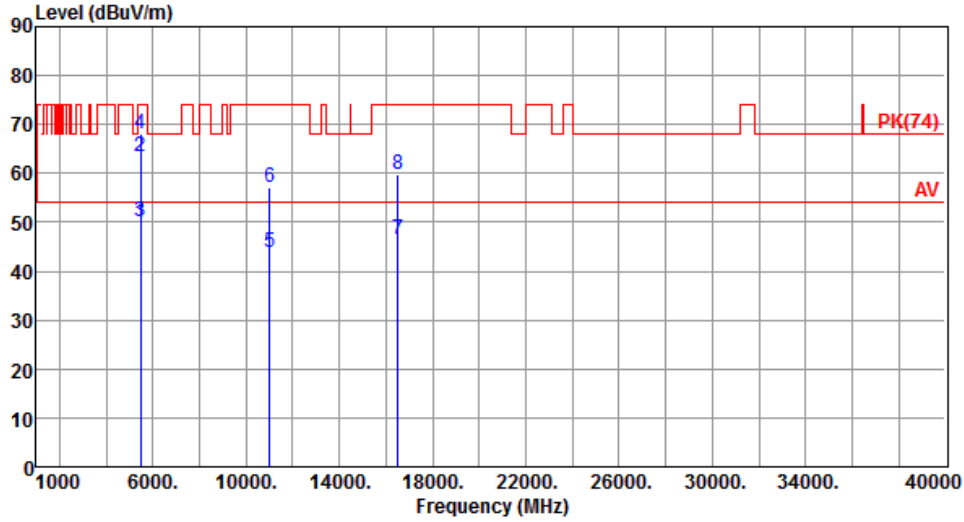


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	49.46	54.00	-4.54	45.02	4.44	Average	112	323
2	5350.00	62.70	74.00	-11.30	58.26	4.44	Peak	112	323
3	5480.00	63.13	68.20	-5.07	58.60	4.53	Peak	112	323
4	10640.00	42.80	54.00	-11.20	28.96	13.84	Average	100	80
5	10640.00	56.28	74.00	-17.72	42.44	13.84	Peak	100	80
6	15960.00	44.22	54.00	-9.78	30.13	14.09	Average	100	90
7	15960.00	57.36	74.00	-16.64	43.27	14.09	Peak	100	90

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5500
Polarization	Horizontal		
<div><div><div>Level (dBuV/m)</div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div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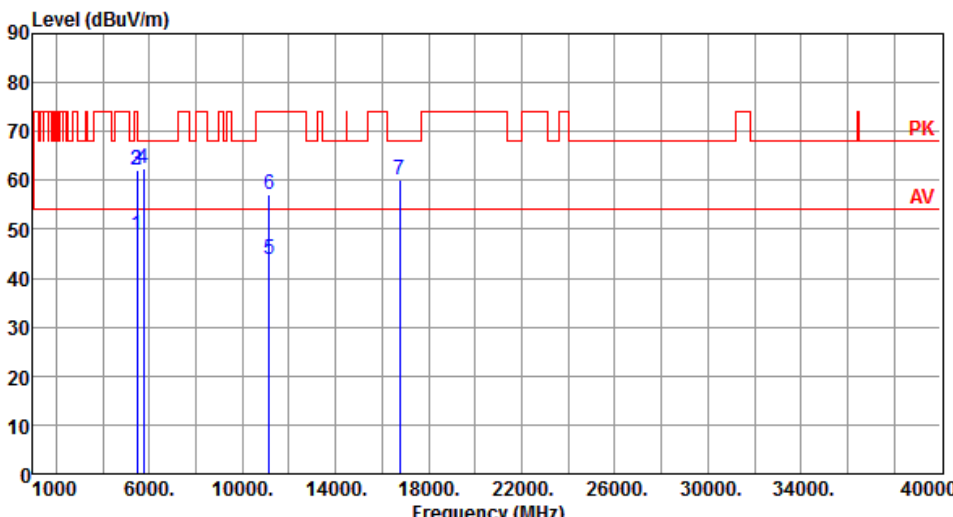
Modulation	11a	Test Freq. (MHz)	5500
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	49.91	54.00	-4.09	45.40	4.51	Average	199	310
2	5460.00	63.32	74.00	-10.68	58.81	4.51	Peak	199	310
3	5470.00	49.99	54.00	-4.01	45.47	4.52	Average	199	310
4	5470.00	67.99	74.00	-6.01	63.47	4.52	Peak	199	310
5	11000.00	43.72	54.00	-10.28	29.57	14.15	Average	100	50
6	11000.00	57.13	74.00	-16.87	42.98	14.15	Peak	100	50
7	16500.00	46.39	54.00	-7.61	30.21	16.18	Average	100	45
8	16500.00	59.67	74.00	-14.33	43.49	16.18	Peak	100	45

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

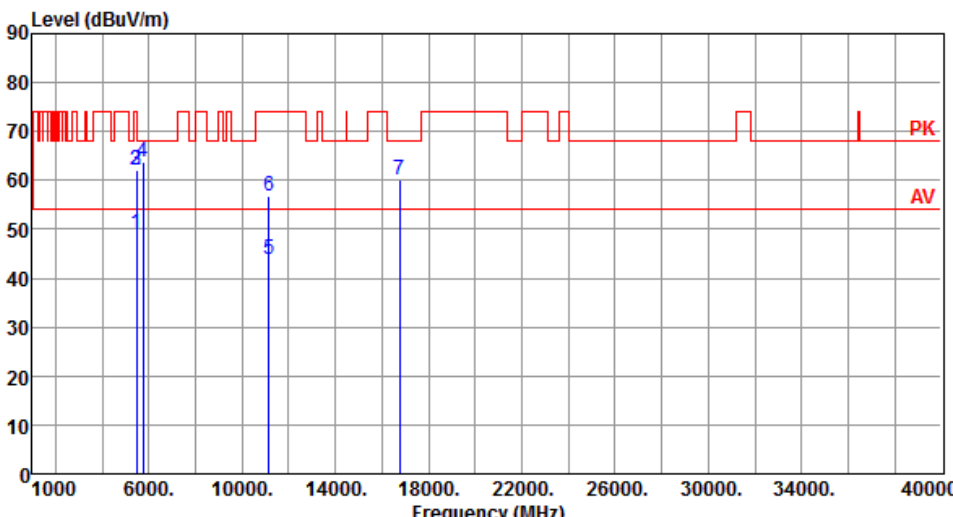
Modulation	11a	Test Freq. (MHz)	5580
Polarization	Horizontal		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	48.89	54.00	-5.11	44.38	4.51	Average	100	123
2	5460.00	62.23	74.00	-11.77	57.72	4.51	Peak	100	123
3	5470.00	61.97	68.20	-6.23	57.45	4.52	Peak	100	123
4	5740.00	62.52	68.20	-5.68	57.66	4.86	Peak	100	123
5	11160.00	43.70	54.00	-10.30	29.56	14.14	Average	100	20
6	11160.00	56.99	74.00	-17.01	42.85	14.14	Peak	100	20
7	16740.00	60.00	68.20	-8.20	43.26	16.74	Peak	100	30

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

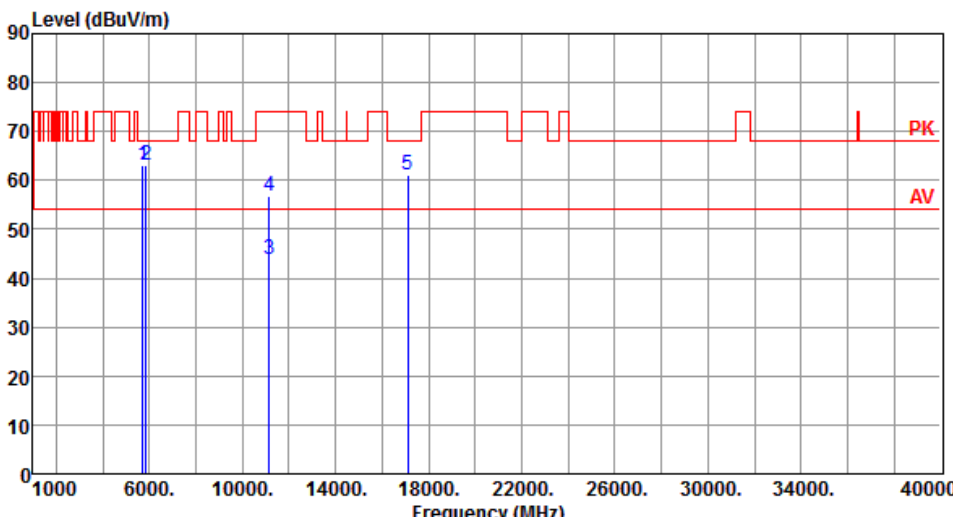
Modulation	11a	Test Freq. (MHz)	5580
Polarization	Vertical		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	49.20	54.00	-4.80	44.69	4.51	Average	177	310
2	5460.00	61.97	74.00	-12.03	57.46	4.51	Peak	177	310
3	5470.00	62.26	68.20	-5.94	57.74	4.52	Peak	177	310
4	5740.00	63.90	68.20	-4.30	59.04	4.86	Peak	177	310
5	11160.00	43.81	54.00	-10.19	29.67	14.14	Average	100	60
6	11160.00	56.71	74.00	-17.29	42.57	14.14	Peak	100	60
7	16740.00	60.10	68.20	-8.10	43.36	16.74	Peak	100	90

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

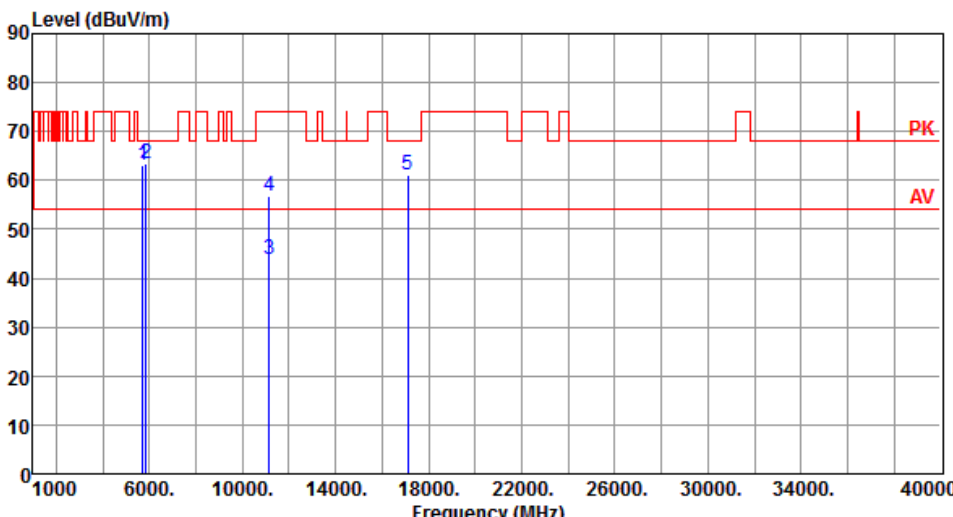
Modulation	11a	Test Freq. (MHz)	5700
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	62.99	68.20	-5.21	58.15	4.84	Peak	100	238
2	5860.00	63.08	68.20	-5.12	58.03	5.05	Peak	100	238
3	11140.00	43.71	54.00	-10.29	29.57	14.14	Average	100	60
4	11140.00	56.71	74.00	-17.29	42.57	14.14	Peak	100	60
5	17100.00	61.07	68.20	-7.13	43.47	17.60	Peak	100	100

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

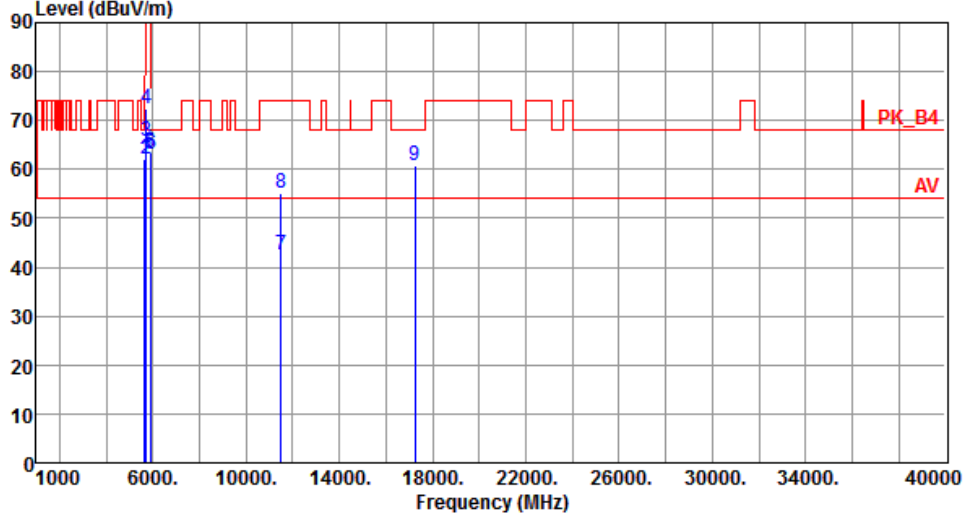
Modulation	11a	Test Freq. (MHz)	5700
Polarization	Vertical		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	63.10	68.20	-5.10	58.26	4.84	Peak	200	311
2	5860.00	63.48	68.20	-4.72	58.43	5.05	Peak	200	311
3	11140.00	43.80	54.00	-10.20	29.66	14.14	Average	100	80
4	11140.00	56.82	74.00	-17.18	42.68	14.14	Peak	100	80
5	17100.00	61.14	68.20	-7.06	43.54	17.60	Peak	100	90

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

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

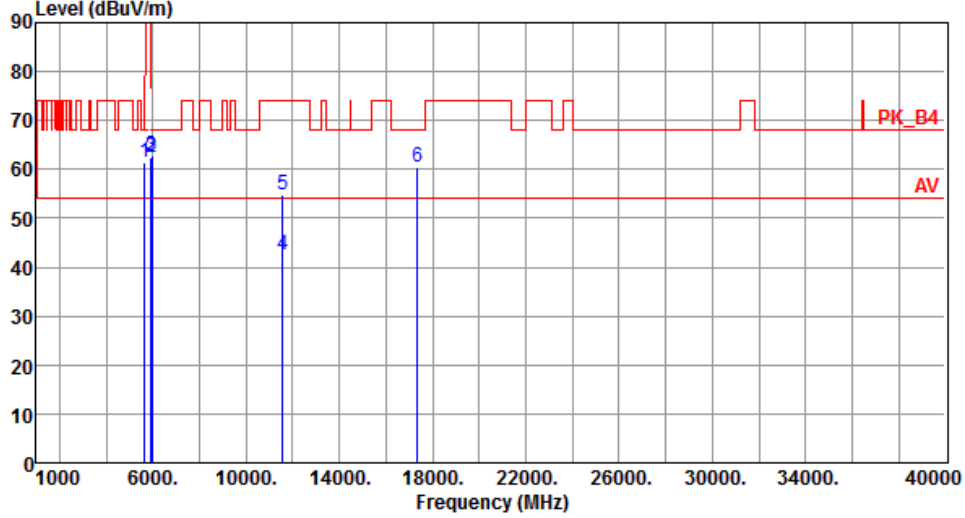


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	62.16	68.20	-6.04	57.43	4.73	Peak	100	320
2	5700.00	62.26	105.20	-42.94	57.45	4.81	Peak	100	320
3	5720.00	65.92	110.80	-44.88	61.08	4.84	Peak	100	320
4	5725.00	72.54	122.20	-49.66	67.70	4.84	Peak	100	320
5	5905.00	63.27	82.96	-19.69	58.16	5.11	Peak	100	320
6	5925.00	63.01	68.20	-5.19	57.88	5.13	Peak	100	320
7	11490.00	42.56	54.00	-11.44	28.45	14.11	Average	100	26
8	11490.00	55.19	74.00	-18.81	41.08	14.11	Peak	100	26
9	17235.00	60.86	68.20	-7.34	42.92	17.94	Peak	100	58

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5745
Polarization	Vertical		
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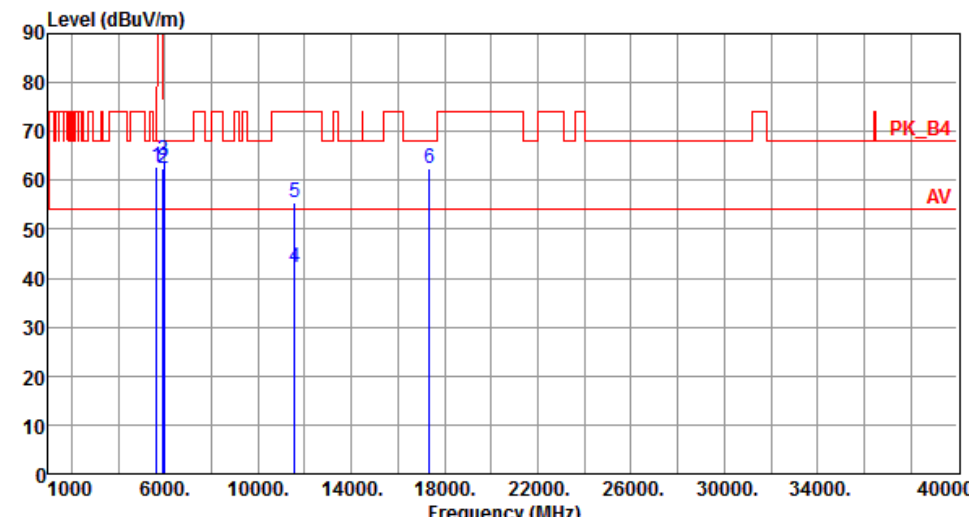
Modulation	11a	Test Freq. (MHz)	5785
Polarization	Horizontal		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	61.59	68.20	-6.61	56.86	4.73	Peak	100	318
2	5925.00	62.47	68.20	-5.73	57.34	5.13	Peak	100	318
3	5945.00	62.70	68.20	-5.50	57.54	5.16	Peak	100	318
4	11570.00	42.42	54.00	-11.58	28.44	13.98	Average	100	31
5	11570.00	54.96	74.00	-19.04	40.98	13.98	Peak	100	31
6	17355.00	60.51	68.20	-7.69	42.26	18.25	Peak	100	52

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

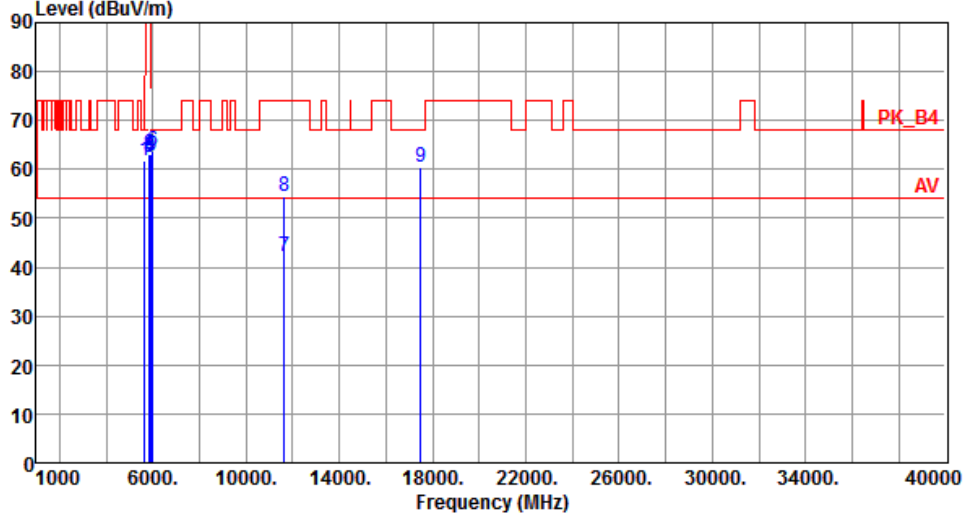
Modulation	11a	Test Freq. (MHz)	5785
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	62.87	68.20	-5.33	58.14	4.73	Peak	214	342
2	5925.00	62.49	68.20	-5.71	57.36	5.13	Peak	214	342
3	5945.00	63.93	68.20	-4.27	58.77	5.16	Peak	214	342
4	11570.00	42.29	54.00	-11.71	28.31	13.98	Average	100	311
5	11570.00	55.41	74.00	-18.59	41.43	13.98	Peak	100	311
6	17355.00	62.54	68.20	-5.66	44.29	18.25	Peak	100	276

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

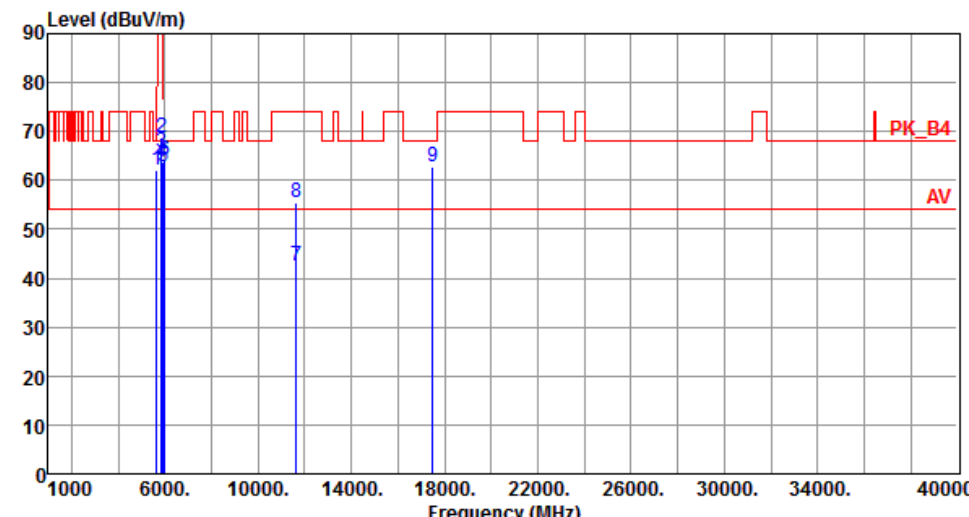
Modulation	11a	Test Freq. (MHz)	5825
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	61.78	68.20	-6.42	57.05	4.73	Peak	100	315
2	5850.00	63.10	122.20	-59.10	58.06	5.04	Peak	100	315
3	5855.00	62.46	110.80	-48.34	57.42	5.04	Peak	100	315
4	5875.00	62.97	105.20	-42.23	57.90	5.07	Peak	100	315
5	5925.00	62.74	68.20	-5.46	57.61	5.13	Peak	100	315
6	5985.00	63.68	68.20	-4.52	58.46	5.22	Peak	100	315
7	11650.00	42.14	54.00	-11.86	28.31	13.83	Average	100	39
8	11650.00	54.59	74.00	-19.41	40.76	13.83	Peak	100	39
9	17475.00	60.36	68.20	-7.84	41.81	18.55	Peak	100	49

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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

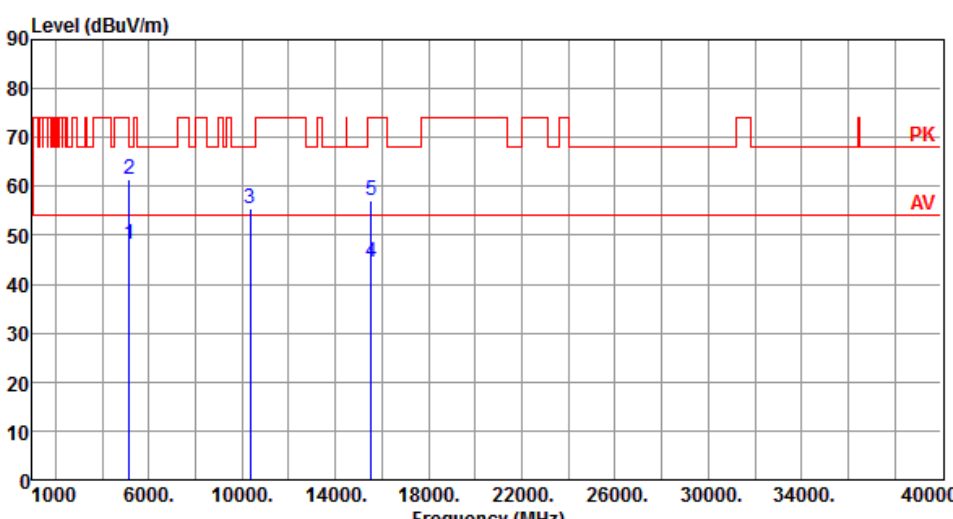


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	62.20	68.20	-6.00	57.47	4.73	Peak	211	347
2	5850.00	68.83	122.20	-53.37	63.79	5.04	Peak	211	347
3	5855.00	65.89	110.80	-44.91	60.85	5.04	Peak	211	347
4	5875.00	63.81	105.20	-41.39	58.74	5.07	Peak	211	347
5	5925.00	62.71	68.20	-5.49	57.58	5.13	Peak	211	347
6	5985.00	63.98	68.20	-4.22	58.76	5.22	Peak	211	347
7	11650.00	42.36	54.00	-11.64	28.53	13.83	Average	100	304
8	11650.00	55.33	74.00	-18.67	41.50	13.83	Peak	100	304
9	17475.00	62.68	68.20	-5.52	44.13	18.55	Peak	100	264

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

3.5.6 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT20

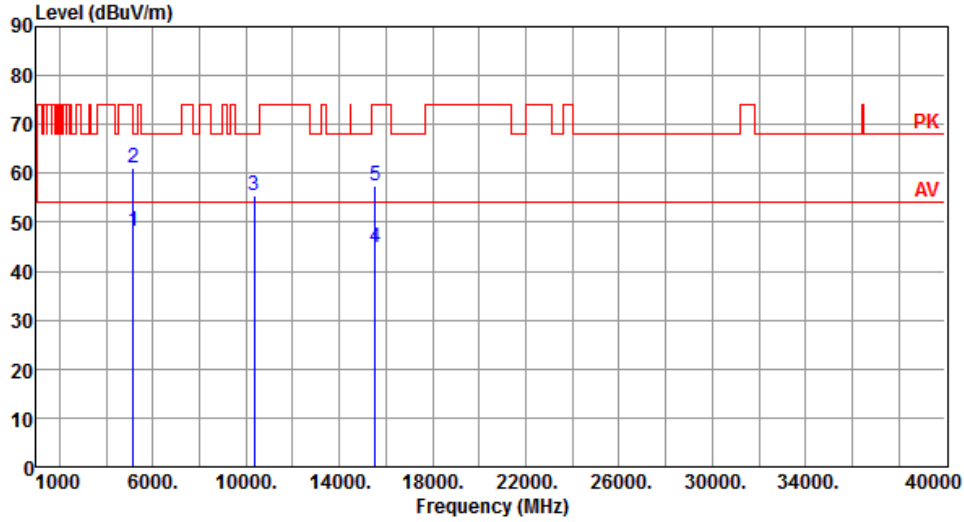
Modulation	HT20	Test Freq. (MHz)	5180
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	48.13	54.00	-5.87	43.85	4.28	Average	100	316
2	5150.00	61.48	74.00	-12.52	57.20	4.28	Peak	100	316
3	10360.00	55.47	68.20	-12.73	41.87	13.60	Peak	100	36
4	15540.00	44.55	54.00	-9.45	29.88	14.67	Average	100	64
5	15540.00	57.25	74.00	-16.75	42.58	14.67	Peak	100	64

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

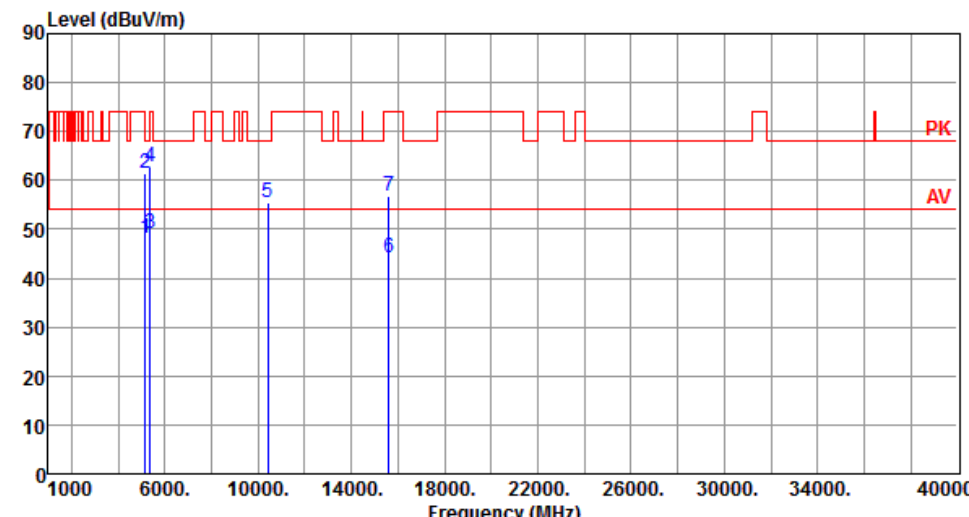
Modulation	HT20	Test Freq. (MHz)	5180
Polarization	Vertical		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	48.16	54.00	-5.84	43.88	4.28	Average	212	32
2	5150.00	60.98	74.00	-13.02	56.70	4.28	Peak	212	32
3	10360.00	55.33	68.20	-12.87	41.73	13.60	Peak	100	71
4	15540.00	44.76	54.00	-9.24	30.09	14.67	Average	100	63
5	15540.00	57.31	74.00	-16.69	42.64	14.67	Peak	100	63

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

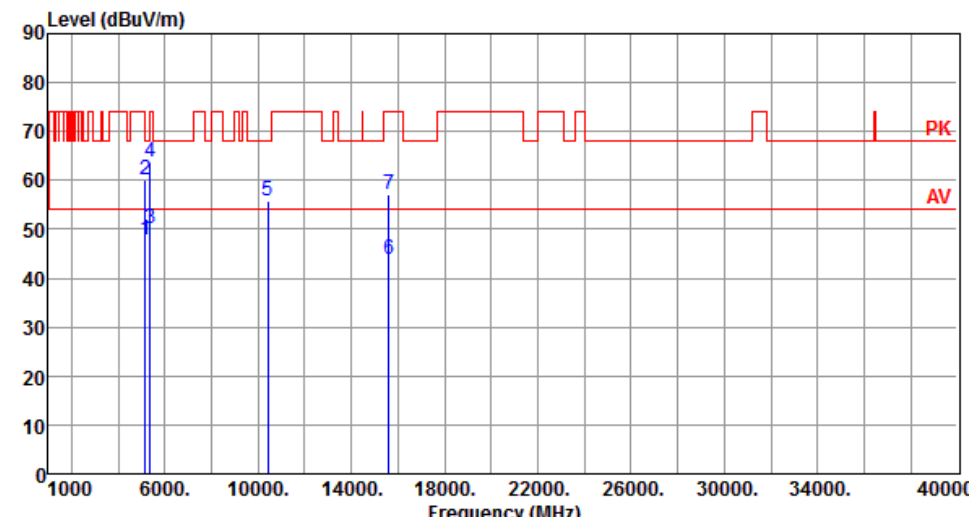
Modulation	HT20	Test Freq. (MHz)	5200
Polarization	Horizontal		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	48.25	54.00	-5.75	43.97	4.28	Average	100	319
2	5150.00	61.34	74.00	-12.66	57.06	4.28	Peak	100	319
3	5360.00	49.15	54.00	-4.85	44.71	4.44	Average	100	319
4	5360.00	62.93	74.00	-11.07	58.49	4.44	Peak	100	319
5	10400.00	55.35	68.20	-12.85	41.71	13.64	Peak	100	33
6	15600.00	44.30	54.00	-9.70	29.72	14.58	Average	100	58
7	15600.00	56.84	74.00	-17.16	42.26	14.58	Peak	100	58

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

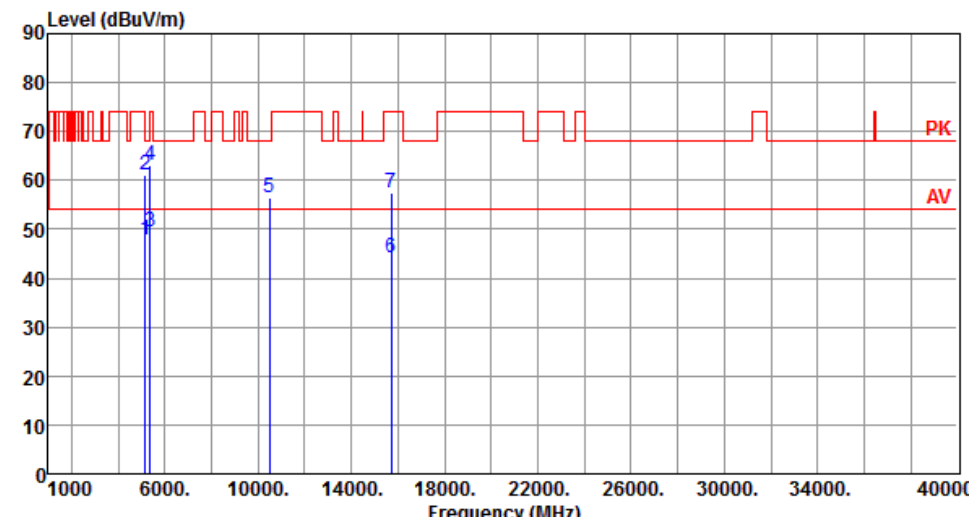
Modulation	HT20	Test Freq. (MHz)	5200
Polarization	Vertical		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	47.98	54.00	-6.02	43.70	4.28	Average	207	37
2	5150.00	60.20	74.00	-13.80	55.92	4.28	Peak	207	37
3	5360.00	50.06	54.00	-3.94	45.62	4.44	Average	207	37
4	5360.00	63.64	74.00	-10.36	59.20	4.44	Peak	207	37
5	10400.00	55.90	68.20	-12.30	42.26	13.64	Peak	100	66
6	15600.00	43.80	54.00	-10.20	29.22	14.58	Average	100	102
7	15600.00	57.25	74.00	-16.75	42.67	14.58	Peak	100	102

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

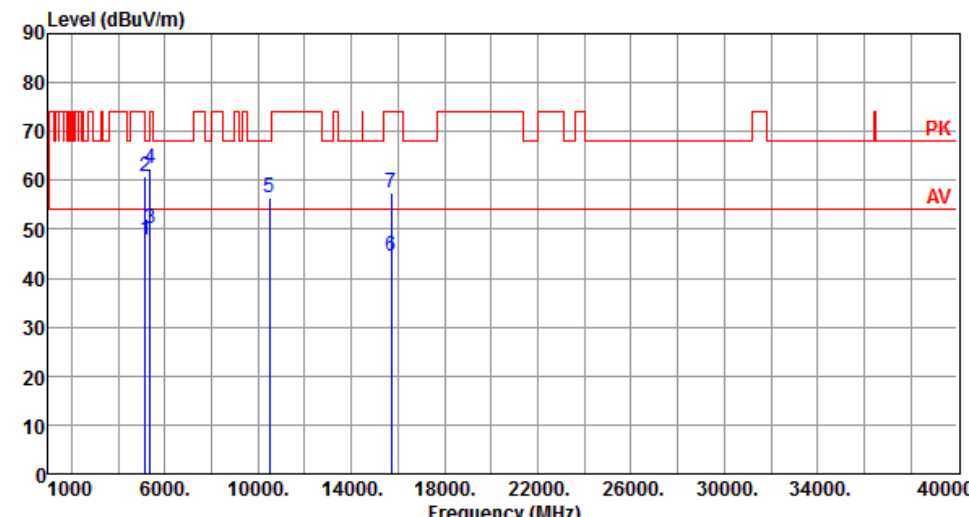
Modulation	HT20	Test Freq. (MHz)	5240
Polarization	Horizontal		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	47.86	54.00	-6.14	43.58	4.28	Average	100	316
2	5150.00	61.09	74.00	-12.91	56.81	4.28	Peak	100	316
3	5350.00	49.36	54.00	-4.64	44.92	4.44	Average	100	316
4	5350.00	63.19	74.00	-10.81	58.75	4.44	Peak	100	316
5	10480.00	56.41	68.20	-11.79	42.71	13.70	Peak	100	31
6	15720.00	44.08	54.00	-9.92	29.66	14.42	Average	100	45
7	15720.00	57.53	74.00	-16.47	43.11	14.42	Peak	100	45

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

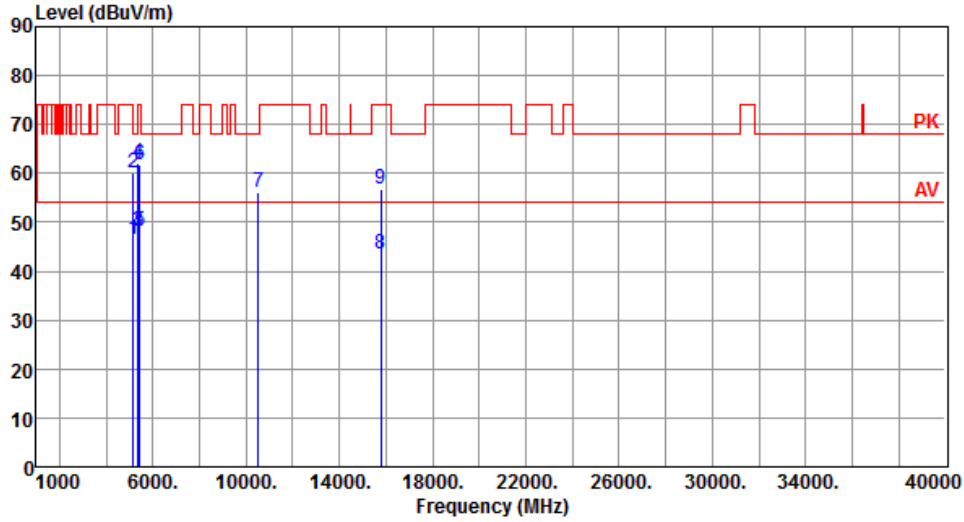
Modulation	HT20	Test Freq. (MHz)	5240
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	47.98	54.00	-6.02	43.70	4.28	Average	212	38
2	5150.00	60.76	74.00	-13.24	56.48	4.28	Peak	212	38
3	5350.00	50.00	54.00	-4.00	45.56	4.44	Average	212	38
4	5350.00	62.38	74.00	-11.62	57.94	4.44	Peak	212	38
5	10480.00	56.31	68.20	-11.89	42.61	13.70	Peak	100	59
6	15720.00	44.40	54.00	-9.60	29.98	14.42	Average	100	109
7	15720.00	57.33	74.00	-16.67	42.91	14.42	Peak	100	109

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

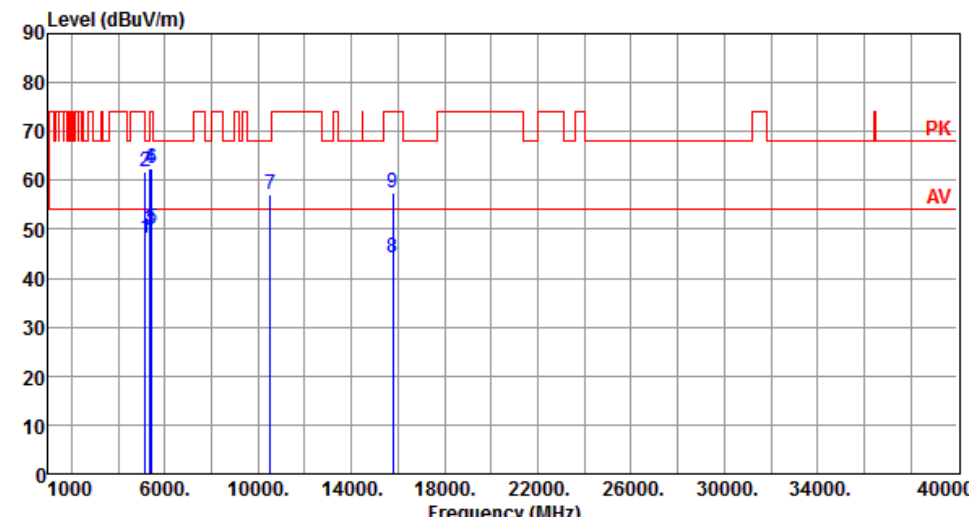
Modulation	HT20	Test Freq. (MHz)	5260
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.66	54.00	-7.34	42.38	4.28	Average	100	312
2	5150.00	60.02	74.00	-13.98	55.74	4.28	Peak	100	312
3	5350.00	48.31	54.00	-5.69	43.87	4.44	Average	100	312
4	5350.00	62.01	74.00	-11.99	57.57	4.44	Peak	100	312
5	5420.00	48.24	54.00	-5.76	43.76	4.48	Average	100	312
6	5420.00	61.91	74.00	-12.09	57.43	4.48	Peak	100	312
7	10520.00	56.19	68.20	-12.01	42.47	13.72	Peak	100	112
8	15780.00	43.50	54.00	-10.50	29.16	14.34	Average	100	82
9	15780.00	56.78	74.00	-17.22	42.44	14.34	Peak	100	82

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

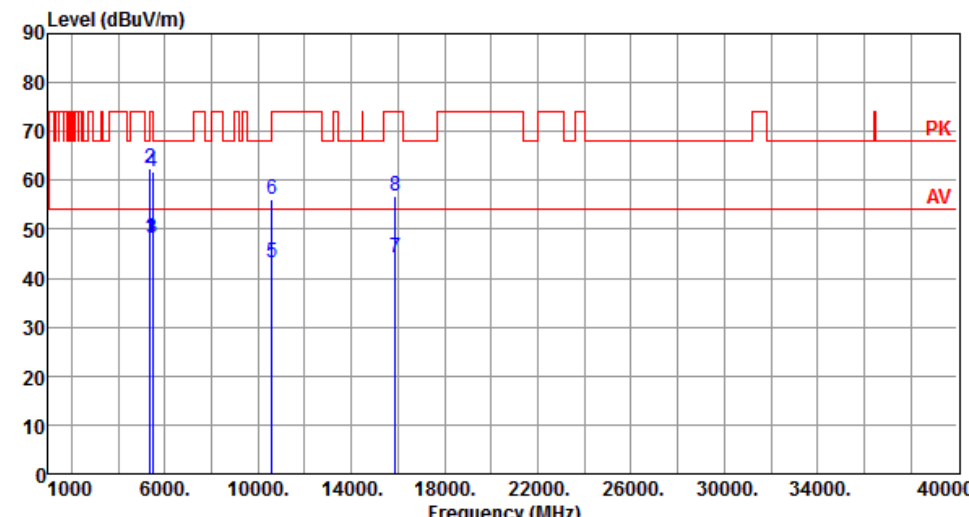
Modulation	HT20	Test Freq. (MHz)	5260
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	48.00	54.00	-6.00	43.72	4.28	Average	217	40
2	5150.00	61.65	74.00	-12.35	57.37	4.28	Peak	217	40
3	5350.00	49.70	54.00	-4.30	45.26	4.44	Average	217	40
4	5350.00	62.30	74.00	-11.70	57.86	4.44	Peak	217	40
5	5420.00	50.15	54.00	-3.85	45.67	4.48	Average	217	40
6	5420.00	62.52	74.00	-11.48	58.04	4.48	Peak	217	40
7	10520.00	56.96	68.20	-11.24	43.24	13.72	Peak	100	38
8	15780.00	44.02	54.00	-9.98	29.68	14.34	Average	100	53
9	15780.00	57.50	74.00	-16.50	43.16	14.34	Peak	100	53

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

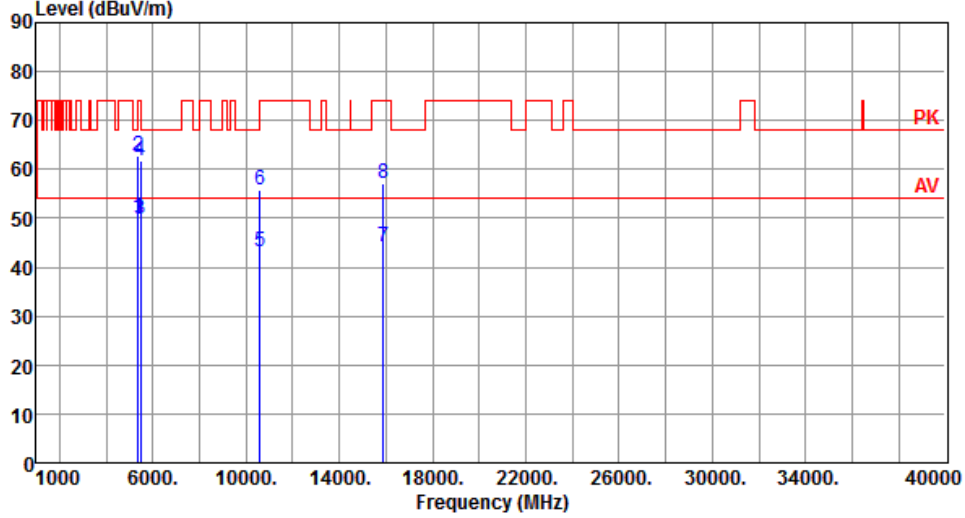
Modulation	HT20	Test Freq. (MHz)	5300
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	48.25	54.00	-5.75	43.81	4.44	Average	100	320
2	5350.00	62.35	74.00	-11.65	57.91	4.44	Peak	100	320
3	5460.00	48.09	54.00	-5.91	43.58	4.51	Average	100	320
4	5460.00	61.93	74.00	-12.07	57.42	4.51	Peak	100	320
5	10600.00	43.02	54.00	-10.98	29.22	13.80	Average	100	71
6	10600.00	56.13	74.00	-17.87	42.33	13.80	Peak	100	71
7	15900.00	44.26	54.00	-9.74	30.08	14.18	Average	100	81
8	15900.00	56.92	74.00	-17.08	42.74	14.18	Peak	100	81

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

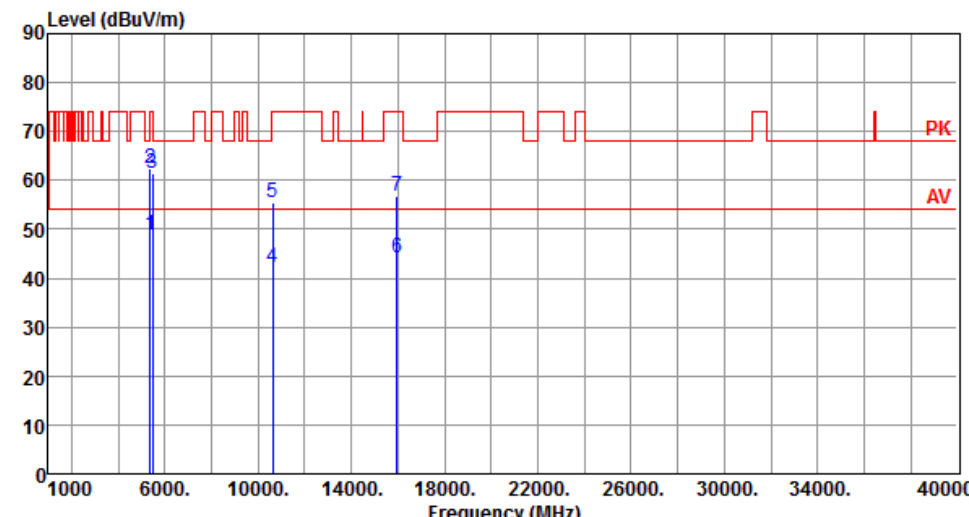
Modulation	HT20	Test Freq. (MHz)	5300
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	50.06	54.00	-3.94	45.62	4.44	Average	222	41
2	5350.00	62.71	74.00	-11.29	58.27	4.44	Peak	222	41
3	5460.00	49.86	54.00	-4.14	45.35	4.51	Average	222	41
4	5460.00	61.91	74.00	-12.09	57.40	4.51	Peak	222	41
5	10600.00	43.33	54.00	-10.67	29.53	13.80	Average	100	36
6	10600.00	55.96	74.00	-18.04	42.16	13.80	Peak	100	36
7	15900.00	44.29	54.00	-9.71	30.11	14.18	Average	100	54
8	15900.00	57.10	74.00	-16.90	42.92	14.18	Peak	100	54

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

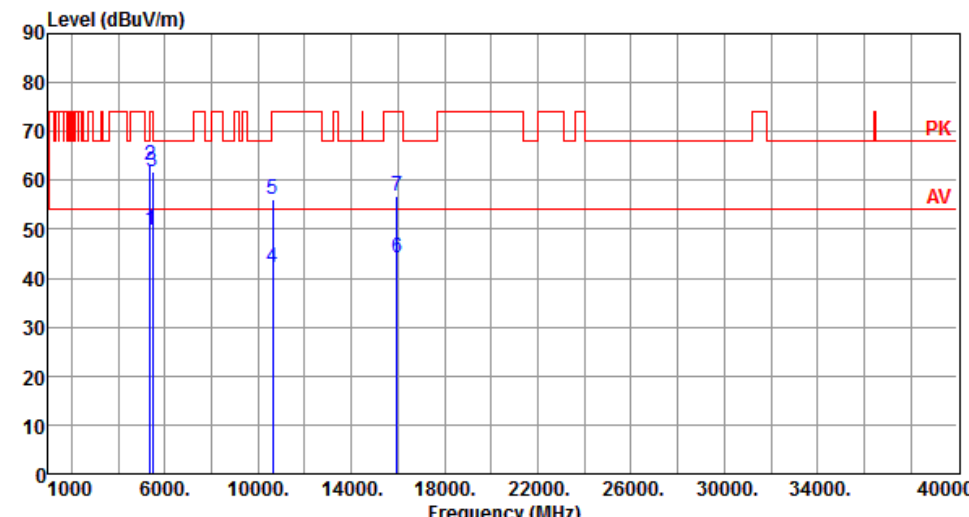
Modulation	HT20	Test Freq. (MHz)	5320
Polarization	Horizontal		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	48.66	54.00	-5.34	44.22	4.44	Average	100	315
2	5350.00	62.49	74.00	-11.51	58.05	4.44	Peak	100	315
3	5480.00	61.56	68.20	-6.64	57.03	4.53	Peak	100	315
4	10640.00	42.17	54.00	-11.83	28.33	13.84	Average	100	24
5	10640.00	55.54	74.00	-18.46	41.70	13.84	Peak	100	24
6	15960.00	44.20	54.00	-9.80	30.11	14.09	Average	100	63
7	15960.00	56.67	74.00	-17.33	42.58	14.09	Peak	100	63

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

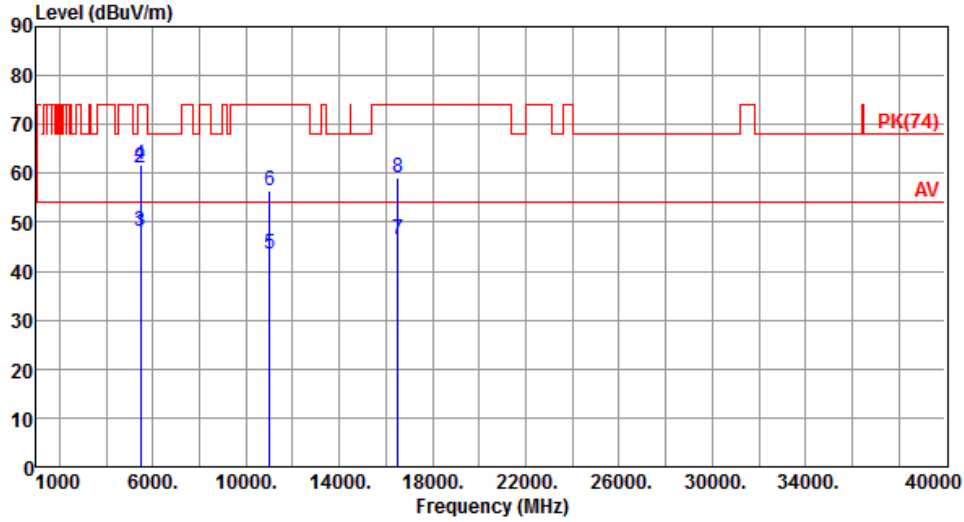
Modulation	HT20	Test Freq. (MHz)	5320
Polarization	Vertical		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	49.81	54.00	-4.19	45.37	4.44	Average	219	49
2	5350.00	63.12	74.00	-10.88	58.68	4.44	Peak	219	49
3	5480.00	61.82	68.20	-6.38	57.29	4.53	Peak	219	49
4	10640.00	42.29	54.00	-11.71	28.45	13.84	Average	100	77
5	10640.00	56.05	74.00	-17.95	42.21	13.84	Peak	100	77
6	15960.00	44.11	54.00	-9.89	30.02	14.09	Average	100	101
7	15960.00	56.71	74.00	-17.29	42.62	14.09	Peak	100	101

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

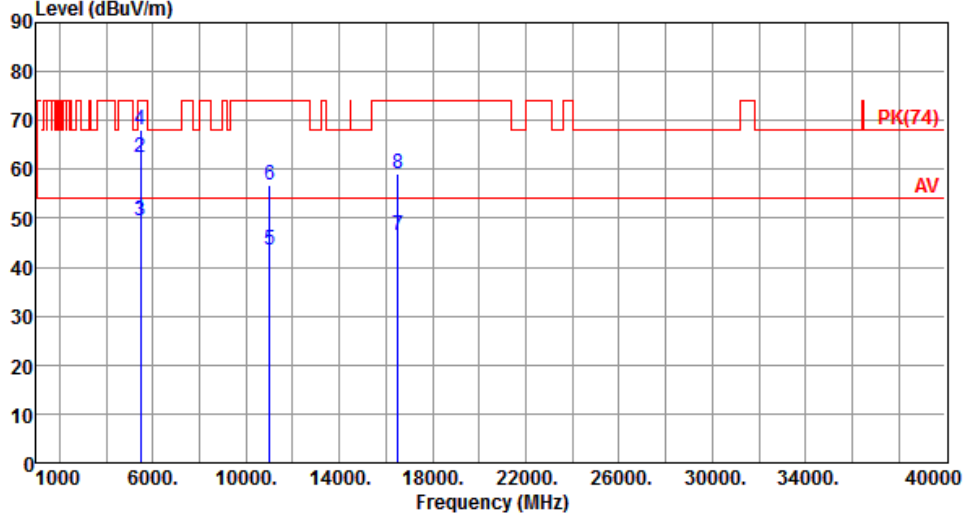
Modulation	HT20	Test Freq. (MHz)	5500
Polarization	Horizontal		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	47.96	54.00	-6.04	43.45	4.51	Average	100	314
2	5460.00	61.25	74.00	-12.75	56.74	4.51	Peak	100	314
3	5470.00	48.01	54.00	-5.99	43.49	4.52	Average	100	314
4	5470.00	61.71	74.00	-12.29	57.19	4.52	Peak	100	314
5	11000.00	43.37	54.00	-10.63	29.22	14.15	Average	100	28
6	11000.00	56.50	74.00	-17.50	42.35	14.15	Peak	100	28
7	16500.00	46.33	54.00	-7.67	30.15	16.18	Average	100	62
8	16500.00	59.13	74.00	-14.87	42.95	16.18	Peak	100	62

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

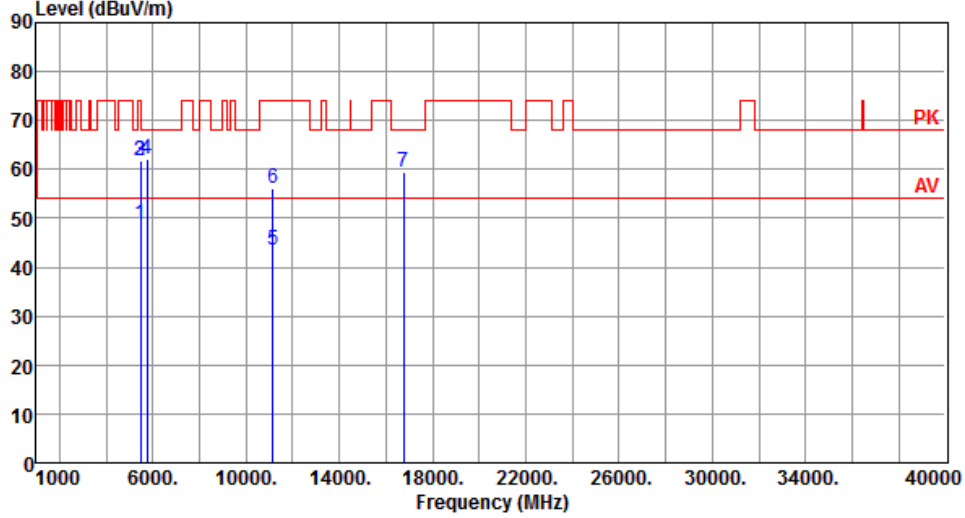
Modulation	HT20	Test Freq. (MHz)	5500
Polarization	Vertical		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	49.79	54.00	-4.21	45.28	4.51	Average	205	54
2	5460.00	62.45	74.00	-11.55	57.94	4.51	Peak	205	54
3	5470.00	49.50	54.00	-4.50	44.98	4.52	Average	205	54
4	5470.00	68.04	74.00	-5.96	63.52	4.52	Peak	205	54
5	11000.00	43.57	54.00	-10.43	29.42	14.15	Average	100	44
6	11000.00	56.64	74.00	-17.36	42.49	14.15	Peak	100	44
7	16500.00	46.34	54.00	-7.66	30.16	16.18	Average	100	55
8	16500.00	59.10	74.00	-14.90	42.92	16.18	Peak	100	55

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

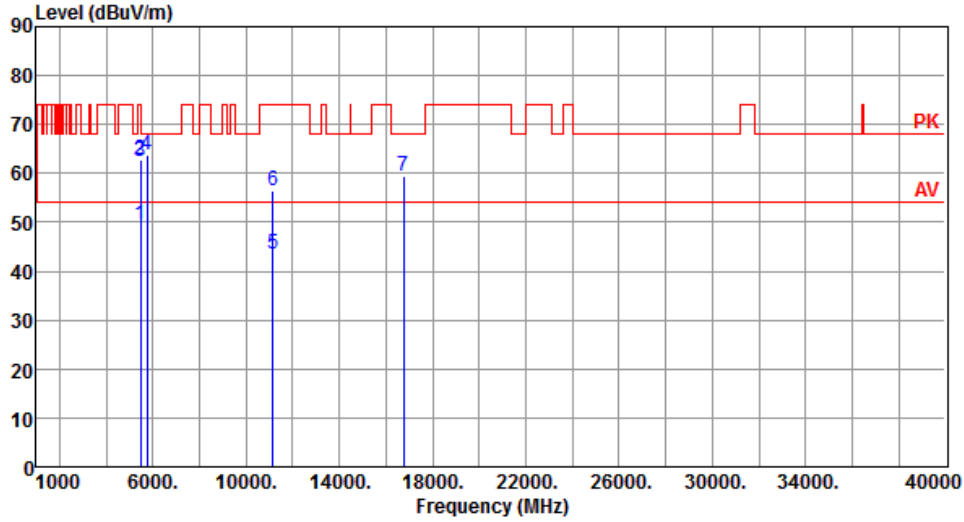
Modulation	HT20	Test Freq. (MHz)	5580
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	48.70	54.00	-5.30	44.19	4.51	Average	100	317
2	5460.00	61.92	74.00	-12.08	57.41	4.51	Peak	100	317
3	5470.00	61.65	68.20	-6.55	57.13	4.52	Peak	100	317
4	5740.00	62.25	68.20	-5.95	57.39	4.86	Peak	100	16
5	11160.00	43.55	54.00	-10.45	29.41	14.14	Average	100	16
6	11160.00	56.09	74.00	-17.91	41.95	14.14	Peak	100	16
7	16740.00	59.56	68.20	-8.64	42.82	16.74	Peak	100	43

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

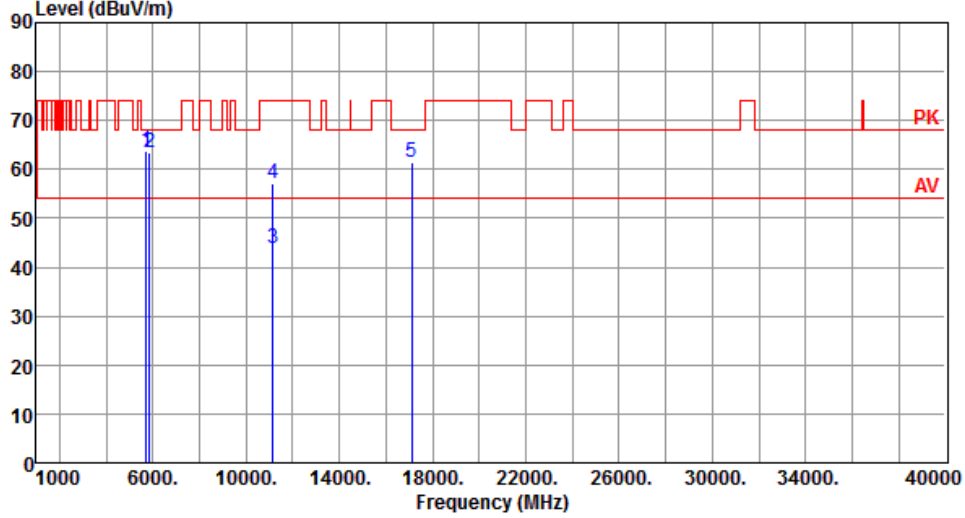
Modulation	HT20	Test Freq. (MHz)	5580
Polarization	Vertical		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	49.56	54.00	-4.44	45.05	4.51	Average	203	58
2	5460.00	62.67	74.00	-11.33	58.16	4.51	Peak	203	58
3	5470.00	62.32	68.20	-5.88	57.80	4.52	Peak	203	58
4	5740.00	63.81	68.20	-4.39	58.95	4.86	Peak	203	58
5	11160.00	43.67	54.00	-10.33	29.53	14.14	Average	100	52
6	11160.00	56.32	74.00	-17.68	42.18	14.14	Peak	100	52
7	16740.00	59.56	68.20	-8.64	42.82	16.74	Peak	100	111

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

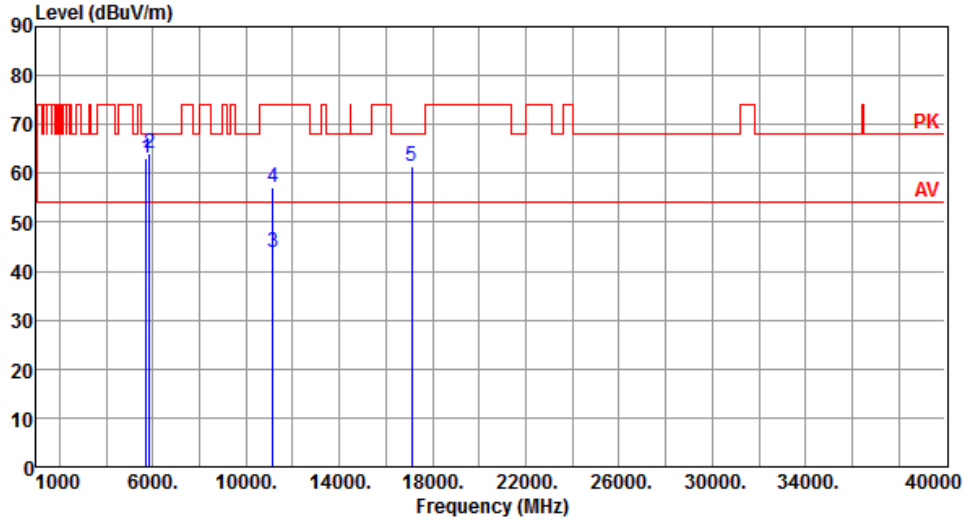
Modulation	HT20	Test Freq. (MHz)	5700
Polarization	Horizontal		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	63.66	68.20	-4.54	58.82	4.84	Peak	100	313
2	5860.00	63.55	68.20	-4.65	58.50	5.05	Peak	100	313
3	11140.00	43.77	54.00	-10.23	29.63	14.14	Average	100	68
4	11140.00	57.09	74.00	-16.91	42.95	14.14	Peak	100	68
5	17100.00	61.51	68.20	-6.69	43.91	17.60	Peak	100	91

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

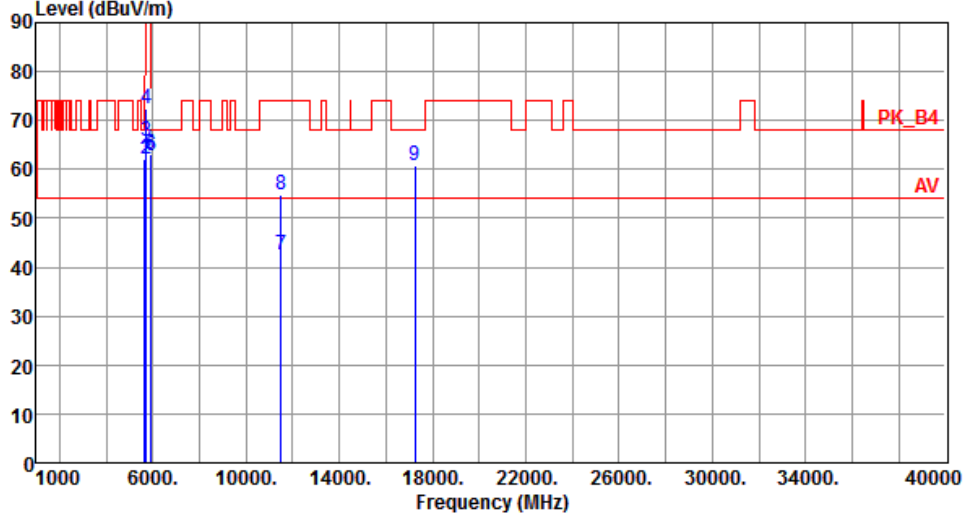
Modulation	HT20	Test Freq. (MHz)	5700
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	63.24	68.20	-4.96	58.40	4.84	Peak	205	56
2	5860.00	64.20	68.20	-4.00	59.15	5.05	Peak	205	56
3	11140.00	43.85	54.00	-10.15	29.71	14.14	Average	100	86
4	11140.00	57.06	74.00	-16.94	42.92	14.14	Peak	100	86
5	17100.00	61.45	68.20	-6.75	43.85	17.60	Peak	100	93

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

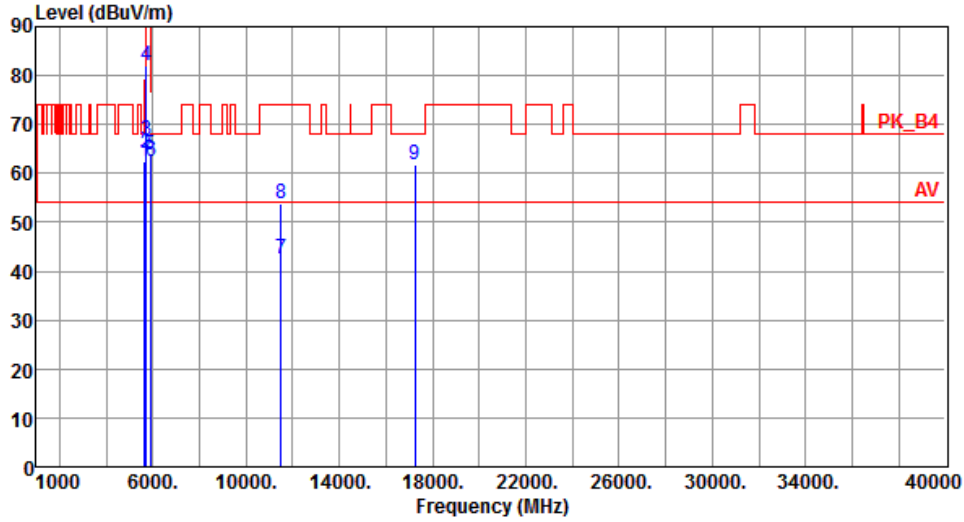
Modulation	HT20	Test Freq. (MHz)	5745
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	62.02	68.20	-6.18	57.29	4.73	Peak	100	319
2	5700.00	62.12	105.20	-43.08	57.31	4.81	Peak	100	319
3	5720.00	65.60	110.80	-45.20	60.76	4.84	Peak	100	319
4	5725.00	72.47	122.20	-49.73	67.63	4.84	Peak	100	319
5	5905.00	63.20	82.96	-19.76	58.09	5.11	Peak	100	319
6	5925.00	62.85	68.20	-5.35	57.72	5.13	Peak	100	319
7	11490.00	42.43	54.00	-11.57	28.32	14.11	Average	100	32
8	11490.00	54.96	74.00	-19.04	40.85	14.11	Peak	100	32
9	17235.00	60.67	68.20	-7.53	42.73	17.94	Peak	100	66

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

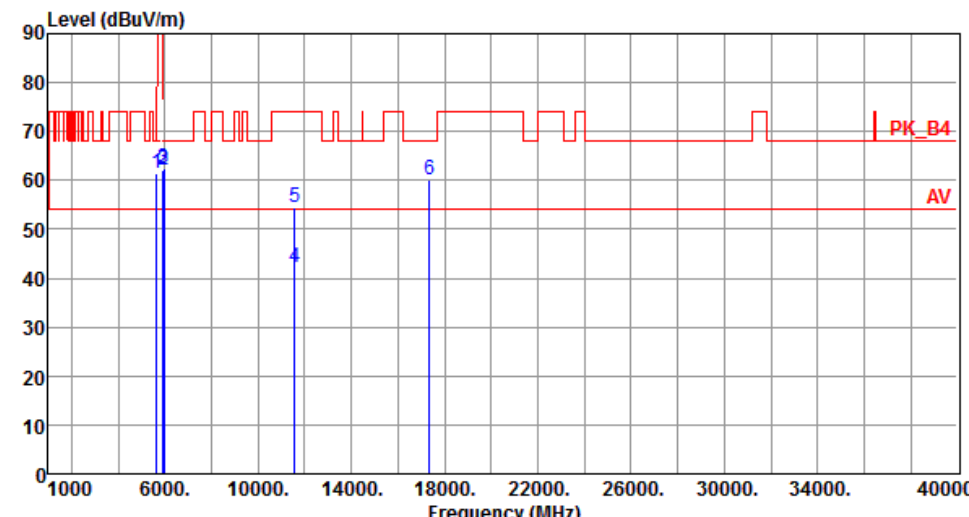
Modulation	HT20	Test Freq. (MHz)	5745
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	62.53	68.20	-5.67	57.80	4.73	Peak	220	340
2	5700.00	64.01	105.20	-41.19	59.20	4.81	Peak	220	340
3	5720.00	66.84	110.80	-43.96	62.00	4.84	Peak	220	340
4	5725.00	82.00	122.20	-40.20	77.16	4.84	Peak	220	340
5	5905.00	63.89	82.96	-19.07	58.78	5.11	Peak	220	340
6	5925.00	62.49	68.20	-5.71	57.36	5.13	Peak	220	340
7	11490.00	42.47	54.00	-11.53	28.36	14.11	Average	100	305
8	11490.00	53.93	74.00	-20.07	39.82	14.11	Peak	100	305
9	17235.00	61.82	68.20	-6.38	43.88	17.94	Peak	100	305

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

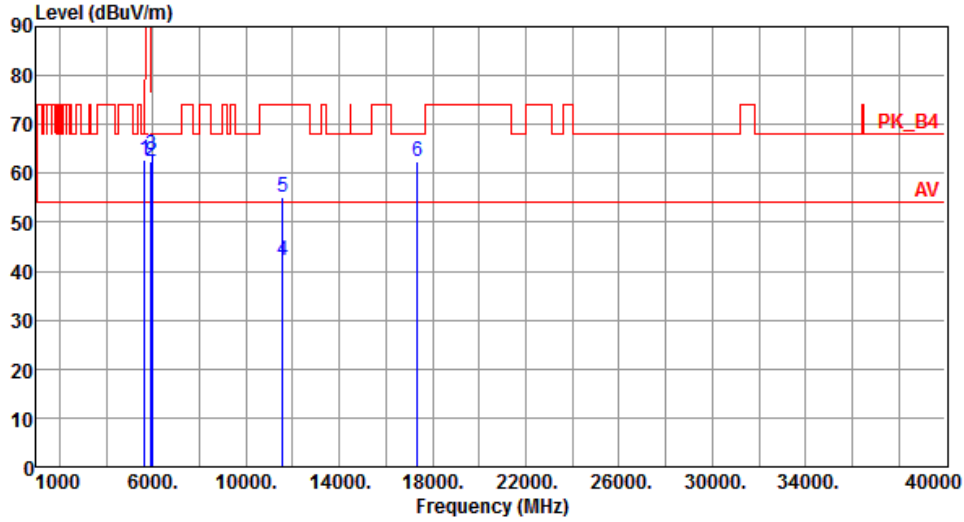
Modulation	HT20	Test Freq. (MHz)	5785
Polarization	Horizontal		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	61.43	68.20	-6.77	56.70	4.73	Peak	100	320
2	5925.00	62.22	68.20	-5.98	57.09	5.13	Peak	100	320
3	5945.00	62.55	68.20	-5.65	57.39	5.16	Peak	100	320
4	11570.00	42.26	54.00	-11.74	28.28	13.98	Average	100	36
5	11570.00	54.60	74.00	-19.40	40.62	13.98	Peak	100	36
6	17355.00	60.13	68.20	-8.07	41.88	18.25	Peak	100	65

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

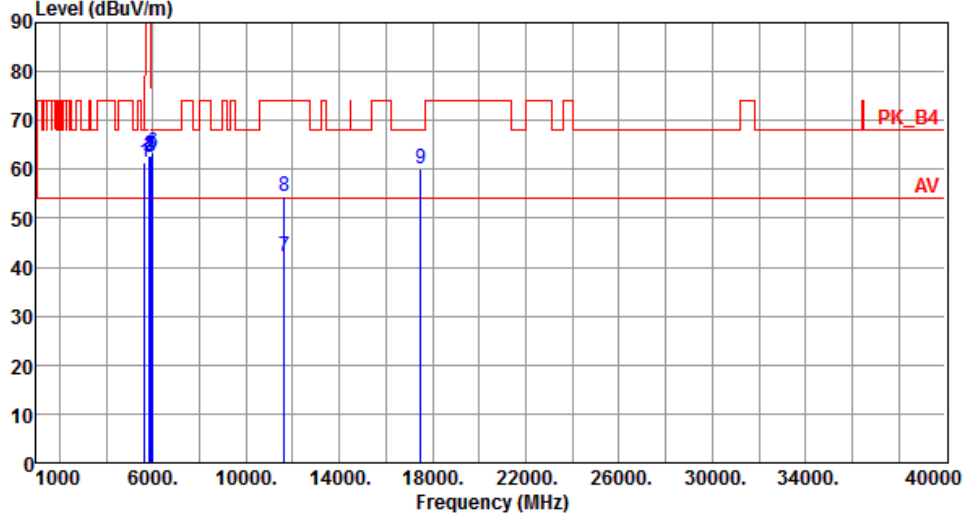
Modulation	HT20	Test Freq. (MHz)	5785
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	62.79	68.20	-5.41	58.06	4.73	Peak	205	354
2	5925.00	62.40	68.20	-5.80	57.27	5.13	Peak	205	354
3	5945.00	63.88	68.20	-4.32	58.72	5.16	Peak	205	354
4	11570.00	42.21	54.00	-11.79	28.23	13.98	Average	100	303
5	11570.00	55.20	74.00	-18.80	41.22	13.98	Peak	100	303
6	17355.00	62.38	68.20	-5.82	44.13	18.25	Peak	100	265

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

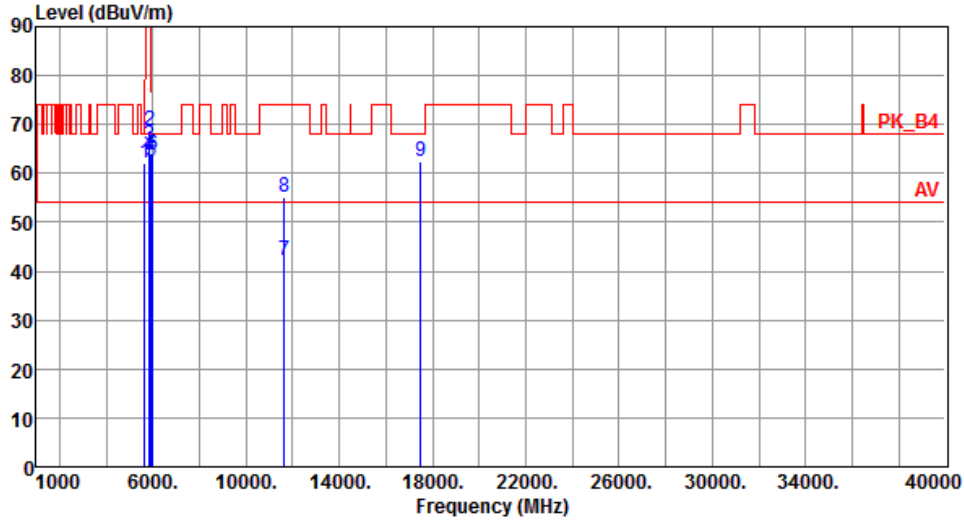
Modulation	HT20	Test Freq. (MHz)	5825
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	61.48	68.20	-6.72	56.75	4.73	Peak	100	317
2	5850.00	62.86	122.20	-59.34	57.82	5.04	Peak	100	317
3	5855.00	62.30	110.80	-48.50	57.26	5.04	Peak	100	317
4	5875.00	62.69	105.20	-42.51	57.62	5.07	Peak	100	317
5	5925.00	62.63	68.20	-5.57	57.50	5.13	Peak	100	317
6	5985.00	63.58	68.20	-4.62	58.36	5.22	Peak	100	317
7	11650.00	42.02	54.00	-11.98	28.19	13.83	Average	100	42
8	11650.00	54.41	74.00	-19.59	40.58	13.83	Peak	100	42
9	17475.00	60.22	68.20	-7.98	41.67	18.55	Peak	100	53

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	5825
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	62.04	68.20	-6.16	57.31	4.73	Peak	208	349
2	5850.00	68.71	122.20	-53.49	63.67	5.04	Peak	208	349
3	5855.00	65.75	110.80	-45.05	60.71	5.04	Peak	208	349
4	5875.00	63.65	105.20	-41.55	58.58	5.07	Peak	208	349
5	5925.00	62.56	68.20	-5.64	57.43	5.13	Peak	208	349
6	5985.00	63.85	68.20	-4.35	58.63	5.22	Peak	208	349
7	11650.00	42.25	54.00	-11.75	28.42	13.83	Average	100	301
8	11650.00	55.21	74.00	-18.79	41.38	13.83	Peak	100	301
9	17475.00	62.38	68.20	-5.82	43.83	18.55	Peak	100	271

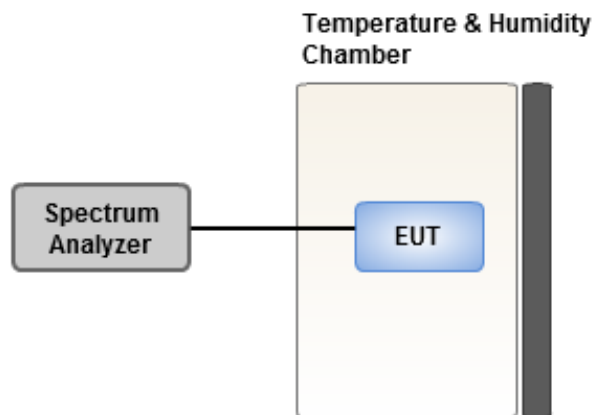
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

3.6 Frequency Stability (Reference only)

3.6.1 Test Procedures

1. The EUT is installed in an environment test chamber with external power source.
2. Set the chamber to operate at 50 centigrade and external power source to output at nominal voltage of EUT.
3. A sufficient stabilization period at each temperature is used prior to each frequency measurement.
4. When temperature is stabled, measure the frequency stability.
5. The test shall be performed under -30 to 55 centigrade and 85 to 115 percent of the nominal voltage. Change setting of chamber and external power source to complete all conditions.

3.6.2 Test Setup



3.6.3 Test Result of Frequency Stability

Frequency: 5320 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°C Vmax	6.33	6.10	7.09	6.98
T20°C Vmin	4.36	4.92	4.74	4.28
T55°C Vnom	4.10	4.31	3.86	4.06
T50°C Vnom	3.76	3.71	4.32	3.71
T40°C Vnom	2.56	3.07	2.86	2.54
T30°C Vnom	3.41	3.46	3.95	3.41
T20°C Vnom	3.01	3.16	3.21	3.60
T10°C Vnom	3.60	4.10	4.18	3.95
T0°C Vnom	2.58	3.36	2.53	3.37
T-10°C Vnom	1.32	1.27	1.42	1.10
T-20°C Vnom	0.73	0.94	1.07	0.70
T-30°C Vnom	1.43	1.49	2.15	1.91
Vnom [Vac]: 110		Vmax [Vac]: 126.5		Vmin [Vac]: 93.5
Tnom [°C]: 20		Tmax [°C]: 55		Tmin [°C]: -30

Frequency: 5785 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°C Vmax	6.19	6.58	6.49	6.64
T20°C Vmin	4.02	4.40	4.01	3.92
T55°C Vnom	3.78	4.12	4.19	4.14
T50°C Vnom	3.14	3.05	3.67	3.82
T40°C Vnom	2.83	3.53	3.51	2.94
T30°C Vnom	3.50	3.78	3.68	3.23
T20°C Vnom	2.91	2.82	3.06	2.90
T10°C Vnom	3.00	2.74	3.23	3.69
T0°C Vnom	3.08	3.29	2.71	3.38
T-10°C Vnom	1.38	1.11	1.49	1.15
T-20°C Vnom	1.46	1.29	1.52	1.50
T-30°C Vnom	0.91	1.20	1.61	1.13
Vnom [Vac]: 110		Vmax [Vac]: 126.5		Vmin [Vac]: 93.5
Tnom [°C]: 20		Tmax [°C]: 55		Tmin [°C]: -30

4 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>.

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

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