



TEST REPORT

APPLICANT : Linkplay Technology Inc.
PRODUCT NAME : WiiM Pro Plus Hi-Res Audio Streamer
MODEL NAME : ASR003
BRAND NAME : WiiM
FCC ID : 2BABF-ASR003
STANDARD(S) : 47 CFR Part 15 Subpart E
RECEIPT DATE : 2023-06-25
TEST DATE : 2023-07-02 to 2023-07-07
ISSUE DATE : 2023-07-19



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Change History		
Version	Date	Reason for change
1.0	2023-07-19	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Linkplay Technology Inc.
Applicant Address:	8000 Jarvis Avenue Suite #130, Newark, CA 94560
Manufacturer:	Linkplay Technology Inc.
Manufacturer Address:	8000 Jarvis Avenue Suite #130, Newark, CA 94560

1.2. Equipment Under Test (EUT) Description

Product Name:	WiiM Pro Plus Hi-Res Audio Streamer	
Sample No.:	3#	
Hardware Version:	Main Board V01+Audio Board V03+Touch Board V04	
Software Version:	Linkplay.4.8.518646	
Modulation Technology:	OFDM	
Modulation Mode:	802.11a, 802.11n (HT20), 802.11n (HT40) 802.11ac (VHT20), 802.11ac (VHT40), 802.11ac (VHT80),	
Operating Frequency Range:	5180MHz-5240MHz; 5260MHz-5320MHz; 5500MHz-5720MHz; 5745MHz-5825MHz	
Channel Number:	Refer to 1.3	
Antenna Type:	PIFA Antenna	
Antenna Gain:	2.41dBi	
Accessory Information:	AC Adapter	
	Brand Name:	N/A
	Model No.:	MDY-08-EZ
	Serial No.:	N/A
	Rated Output:	5V \pm 2A
	Rated Input:	100-240V \sim 50/60Hz, 0.35A
	Manufacturer:	Jiangsu Chenyang Electron Co.,Ltd.



Accessory Information:	AC Adapter 2	
	Brand Name:	N/A
	Model No.:	TPA-147A050200UU01
	Serial No.:	N/A
	Rated Output:	5V \pm 2A
	Rated Input:	100-240V \sim 50/60Hz, 0.3A
	Manufacturer:	SHENZHEN TIANYIN ELECTRONICS CO.,LTD.

Note 1: The test results of all conducted test items please refer to the module FCC test report (Report No.: SZ20110203W04, FCC ID: 2ANOG-A98M), which issued on December 18, 2020 by Shenzhen Morlab Communications Technology Co., Ltd. We only recorded the radiated test result in this report.



1.3. Modulation Type and Data Rate of EUT

Mode	Bandwidth (MHz)	Modulation Technology	Modulation Type	Data Rate	RU Size
802.11a	20	OFDM	DBPSK	1/2/5.5/11Mbps	N/A
			DQPSK		
			CCK		
802.11n	20/40 (HT20/40)	OFDM	BPSK	MCS0~MCS7	N/A
			QPSK		
			16QAM		
			64QAM		
802.11ac	20/40/80 (VHT20/40/80)	OFDM	BPSK	MCS0~MCS9	N/A
			QPSK		
			16QAM		
			64QAM		
			256QAM		

Note1: The worst-case mode(black bold) in all data rates has been determined during the pre-scan, only the test data of the worst-case were recorded in this report.

1.4. The Channel Number and Frequency

(U-NII-1) 5180MHz-5240MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	36	5180	40	5200
	44	5220	48	5240
40MHz	38	5190	46	5230
80MHz	42	5210		
(U-NII-2A) 5260MHz-5320MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	52	5260	56	5280
	60	5300	64	5320
40MHz	54	5270	62	5310
80MHz	58	5290		
(U-NII-2C) 5500MHz-5720MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	100	5500	105	5520
			108	5540
			116	5580
			124	5620
			132	5660
			140	144
40MHz	102	5510	110	5550
			118	5590
			134	142
80MHz	106	5530	122	5610
	138	5690		
(U-NII-3) 5745MHz-5825MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	149	5745	153	5765
	157	5785	161	5805
	165	5825		
40MHz	151	5775	159	5795
80MHz	155	5775		

Note 1: The black bold channels were selected for test.



1.5. Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart E (U-NII band) for the EUT FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 15(5-1-14 Edition)	Radio Frequency Devices

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
1	15.203	Antenna Requirement	N/A	N/A _{Note1}	N/A	N/A
2	ANSI C63.10	Duty Cycle of the Test Signal	N/A	N/A _{Note1}	N/A	N/A
3	15.407(a)	Maximum Conducted Output Power	N/A	N/A _{Note1}	N/A	N/A
4	15.407(a)(e)	Emission Bandwidth	N/A	N/A _{Note1}	N/A	N/A
5	15.407(a)	Peak Power Spectral Density	N/A	N/A _{Note1}	N/A	N/A
6	15.407(g)	Frequency Stability	N/A	N/A _{Note1}	N/A	N/A
7	15.407(h)	DFS	N/A	N/A _{Note2}	N/A	N/A
8	15.207	Conducted Emission	Jul. 03, 2023	Fan Zehang	PASS	No deviation
9	15.407(b)	Restricted Frequency Bands	Jul. 01, 2023	Gao Jianrou	PASS	No deviation
10	15.407(b)	Radiated Emission	Jul. 02, 2023	Gao Jianrou	PASS	No deviation

Note 1: The test results of all conducted test items please refer to the module FCC test report (Report No.: SZ20110203W04, FCC ID: 2ANOG-A98M), which issued on December 18, 2020 by Shenzhen Morlab Communications Technology Co., Ltd.

Note 2: The test results of DFS test items please refer to the module FCC test report (Report No.: SZ20110203W05, FCC ID: 2ANOG-A98M), which issued on December 18, 2020 by



Shenzhen Morlab Communications Technology Co., Ltd.

Note 3: The tests of Conducted Emission and Radiated Emission were performed according to the method of measurements prescribed in ANSI C63.102013.

Note 4: Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.

Note 5: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.

1.6. Environmental Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15-35
Relative Humidity (%):	30-60
Atmospheric Pressure (kPa):	86-106

2.47 CFR Part 15E Requirements

2.1. Conducted Emission

2.1.1. Requirement

According to FCC section 15.207, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50μH/50Ω line impedance stabilization network (LISN).

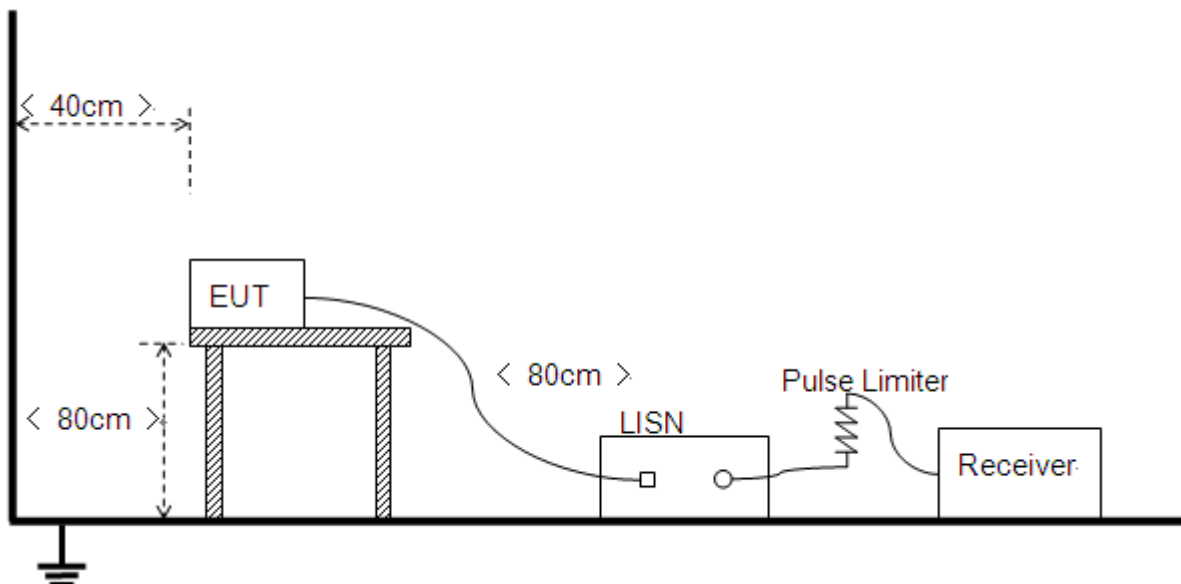
Frequency Range (MHz)	Conducted Limit (dBμV)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

Note:

- (a) The lower limit shall apply at the band edges.
- (b) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

2.1.2. Test Description

Test Setup:



The Table-top EUT was placed upon a non-metallic table 0.8m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference



Ground Plane. EUT was 80cm from LISN. The set-up and test methods were according to ANSI C63.10: 2013.

2.1.3. Test Result

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Set RBW=9kHz, VBW=30kHz. Refer to recorded points and Plot below.

Note: Both of the test voltage AC 120V/60Hz and AC 230V/50Hz were considered and tested respectively, only the results of the worst case AC 120V/60Hz were recorded in this report.

A. Test Setup:

Test Mode: EUT + Adapter + USB cable + WIFI TX

Test Voltage: AC 120V/60Hz

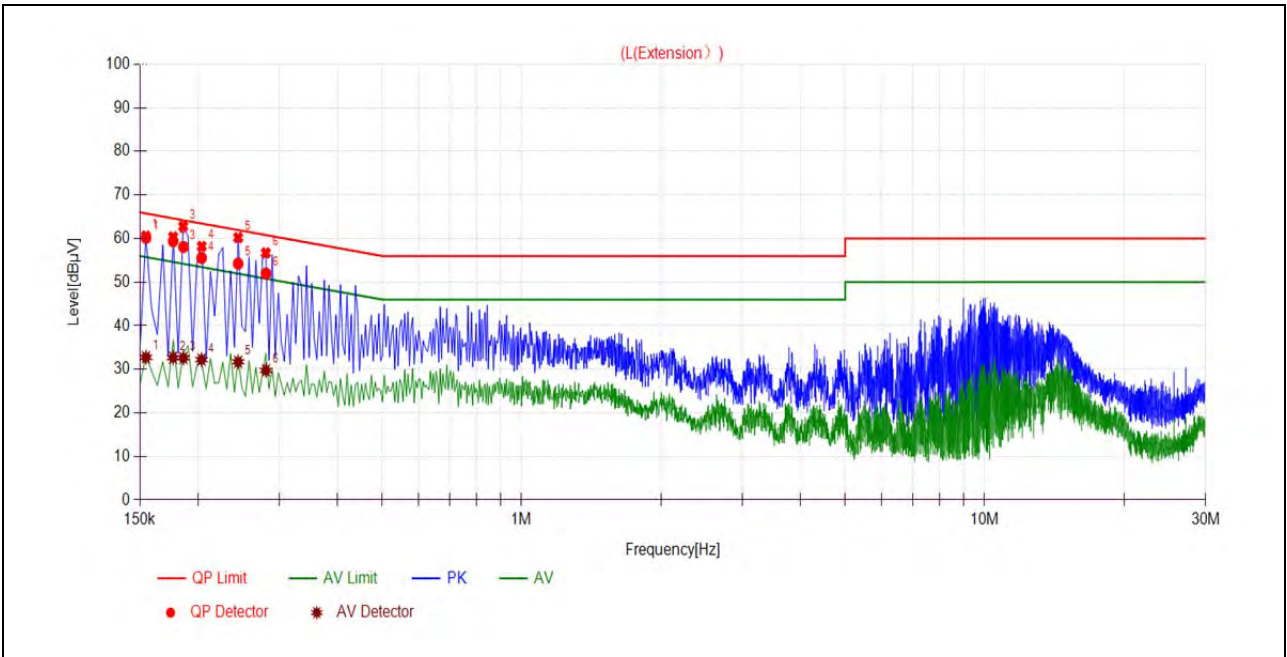
The measurement results are obtained as below:

$$E \text{ [dB}\mu\text{V]} = U_R + L_{\text{Cable loss}} \text{ [dB]} + A_{\text{Factor}}$$

U_R : Receiver Reading

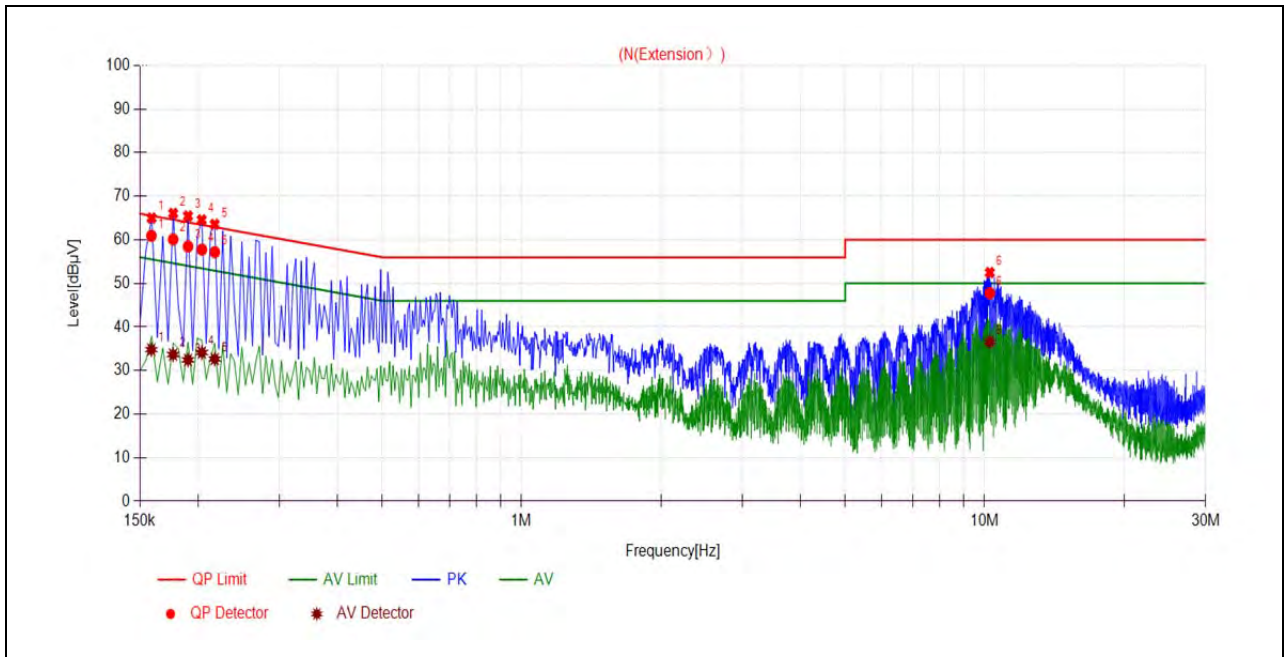
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1546	60.17	32.74	65.75	55.75	Line	PASS
2	0.1769	59.42	32.66	64.63	54.63		PASS
3	0.1862	58.07	32.61	64.21	54.21		PASS
4	0.2038	55.56	32.20	63.45	53.45		PASS
5	0.2444	54.25	31.71	61.95	51.95		PASS
6	0.2807	51.99	29.73	60.79	50.79		PASS



(N Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1588	60.92	34.81	65.52	55.52	Neutral	PASS
2	0.1769	60.10	33.67	64.63	54.63		PASS
3	0.1905	58.48	32.44	64.01	54.01		PASS
4	0.2041	57.76	34.13	63.44	53.44		PASS
5	0.2176	57.18	32.64	62.91	52.91		PASS
6	10.2549	47.77	36.58	60.00	50.00		PASS

2.2. Restricted Frequency Bands

2.2.1. Requirement

The peak emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15–5.25 GHz band: all emissions outside of the 5.15–5.35 GHz band shall not exceed an EIRP of -27dBm/MHz.
- (2) For transmitters operating in the 5.25–5.35 GHz band: all emissions outside of the 5.15–5.35 GHz band shall not exceed an EIRP of -27dBm/MHz.
- (3) For transmitters operating in the 5.47–5.725 GHz band: all emissions outside of the 5.47–5.725 GHz band shall not exceed an EIRP of -27dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
 - (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

The following formula is used to convert the equipment isotropic radiated power(e.i.r.p.) to field strength (dBμV/m);

$$E = 1000000 \times \sqrt{30P} / 3 \mu\text{V/m}$$

where P is the EIRP in Watts

Therefore: -27 dBm/MHz = 68.23 dBuV/m

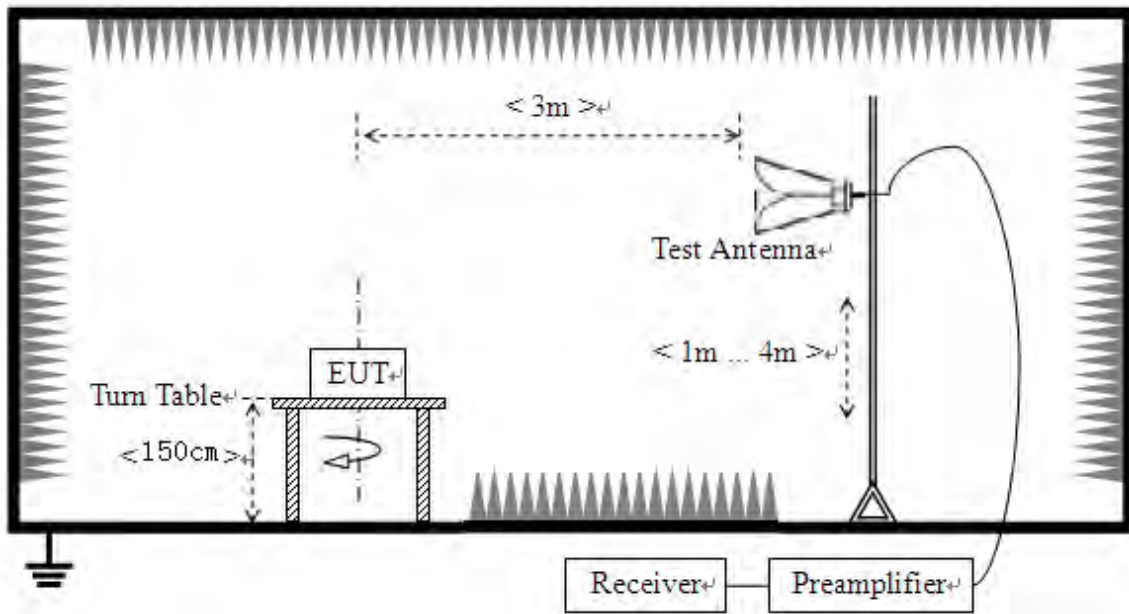
Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209. According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ($\mu\text{V}/\text{m}$)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

For Above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table).

2.2.2. Test Description

Test Setup





The EUT is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading.

KDB 789033 Section H) 3)5)6(d)) was used in order to prove compliance

For the Test Antenna:

Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength.

2.2.3. Test Result

The lowest and highest channels are tested to verify Restricted Frequency Bands.

The measurement results are obtained as below:

$$E \text{ [dB}\mu\text{V/m]} = U_R + A_T + A_{\text{Factor}} \text{ [dB]}; A_T = L_{\text{Cable loss}} \text{ [dB]} - G_{\text{preamp}} \text{ [dB]}$$

A_T : Total correction Factor except Antenna; U_R : Receiver Reading

G_{preamp} : Preamplifier Gain; A_{Factor} : Antenna Factor at 3m

Note 1: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (vertical) was recorded in this test report.

Note 2 All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.

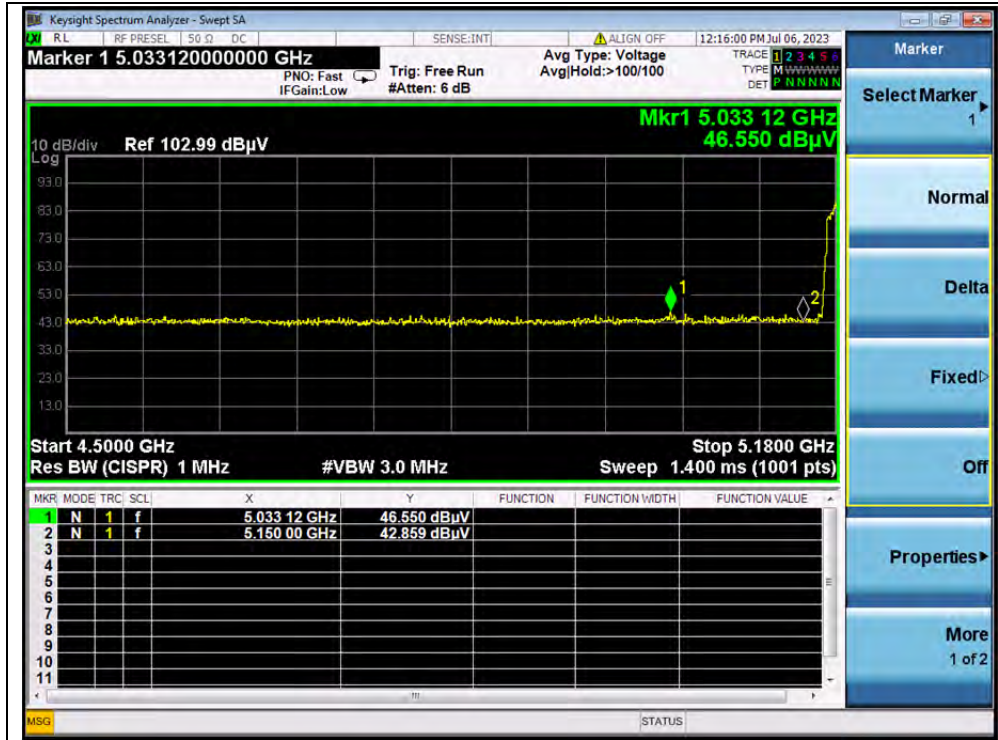
802.11a Mode

A.Test Verdict:

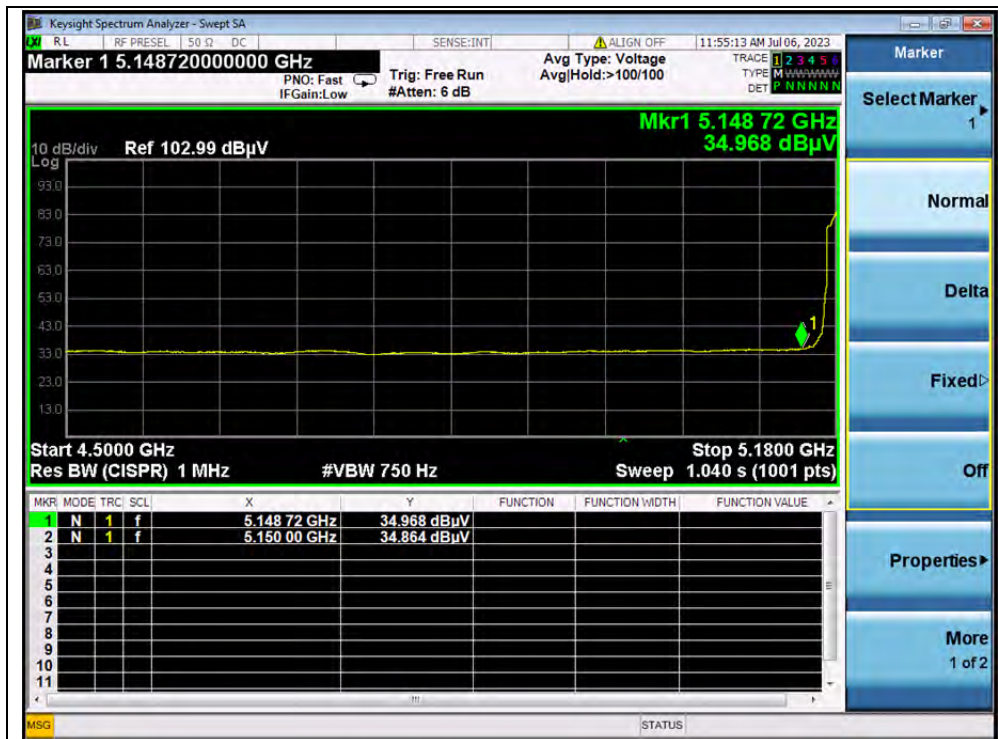
Channel	Frequency (MHz)	Detector	Receiver Reading	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV	U_R (dBμV)					
36	5033.12	PK	46.55	-19.54	32.20	59.21	74	PASS
36	5148.72	AV	34.97	-19.54	32.20	47.63	54	PASS
64	5367.60	PK	43.64	-18.80	32.20	57.04	74	PASS
64	5350.00	AV	33.14	-18.80	32.20	46.54	54	PASS
100	5456.00	PK	43.76	-19.20	32.20	56.76	74	PASS
100	5457.50	AV	32.83	-19.20	32.20	45.83	54	PASS
144	5744.10	PK	44.71	-19.20	32.20	57.71	68.23	PASS
149	5725.00	PK	43.04	-19.01	32.20	56.23	122.23	PASS
165	5880.00	PK	43.75	-19.01	32.20	56.94	101.53	PASS



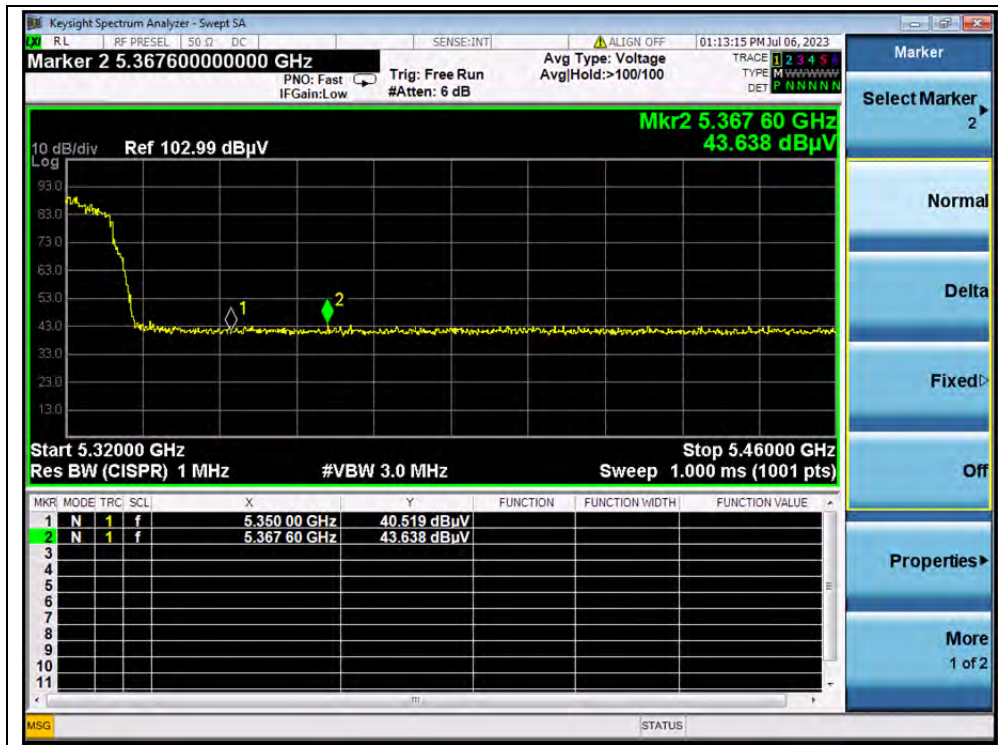
B.Test Plot:



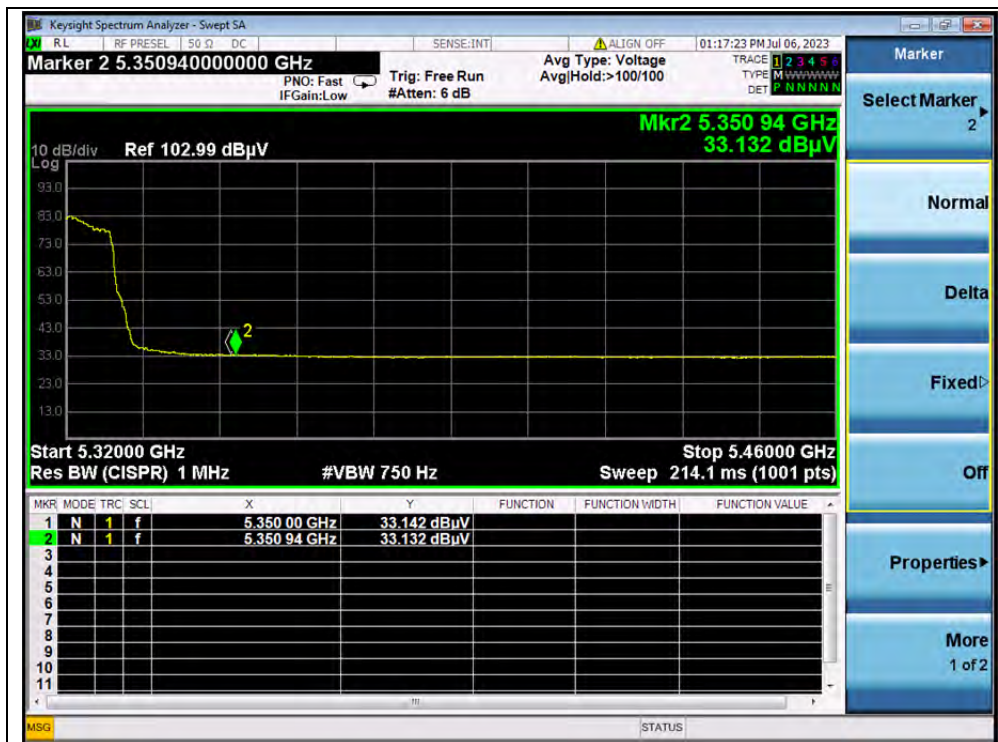
(PEAK, Channel 36, 802.11a)



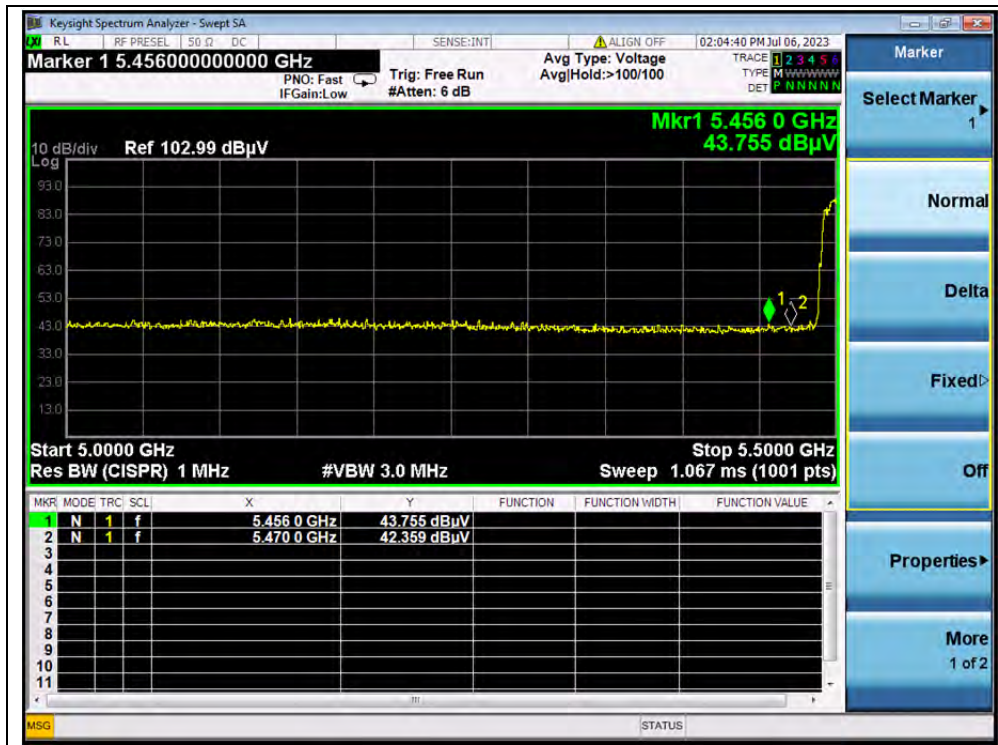
(AVERAGE, Channel 36, 802.11a)



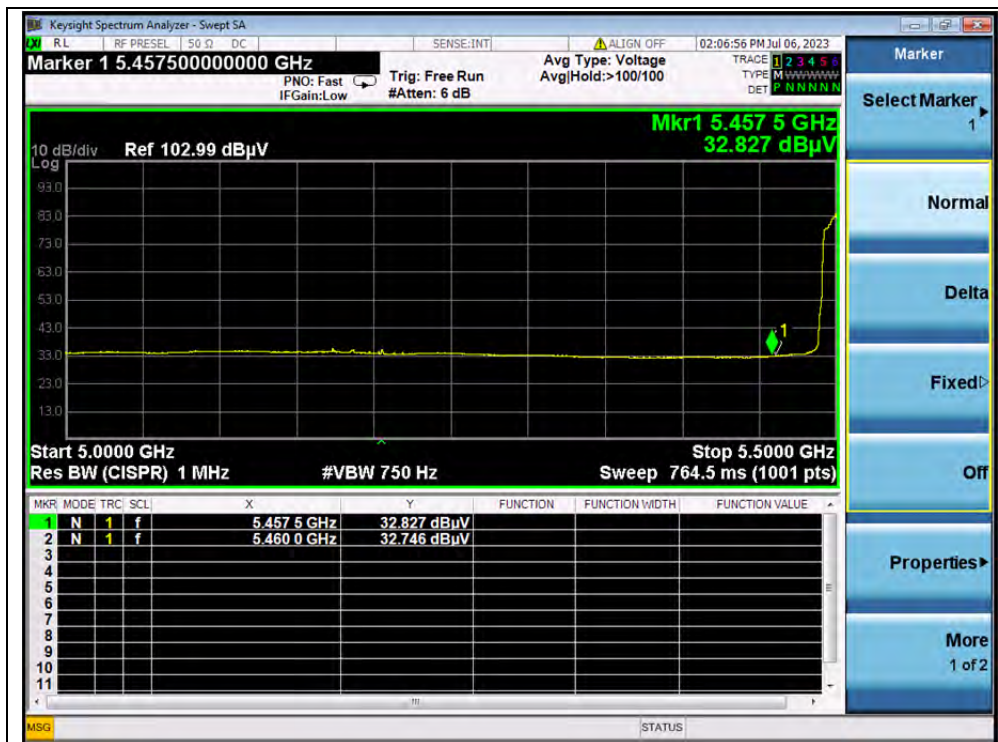
(PEAK, Channel 64, 802.11a)



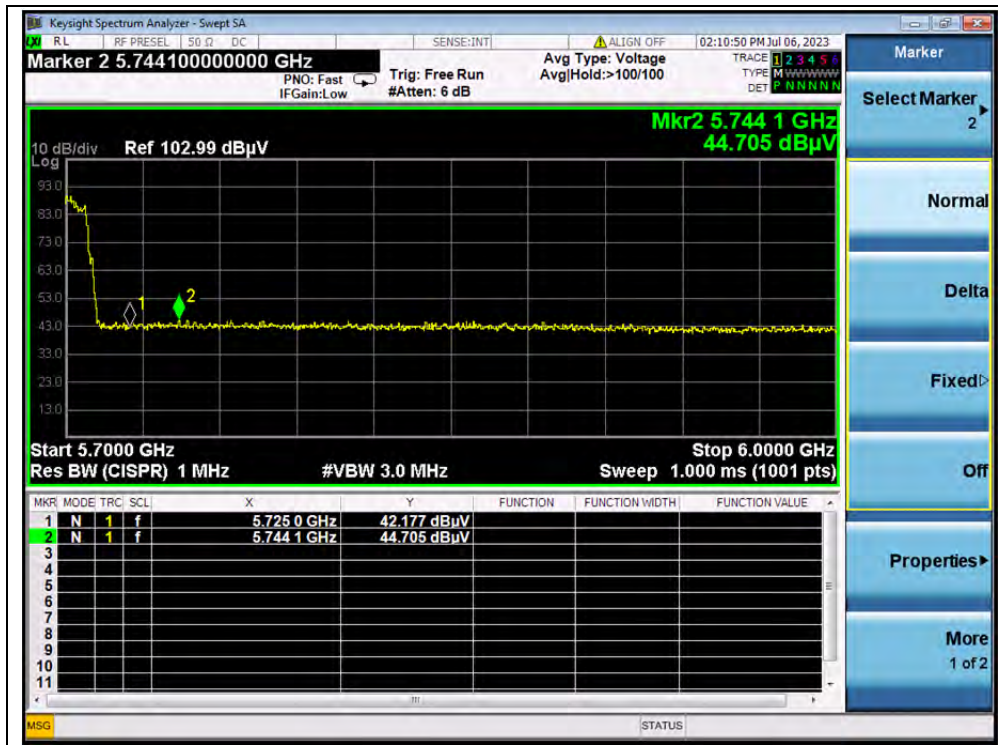
(AVERAGE, Channel 64, 802.11a)



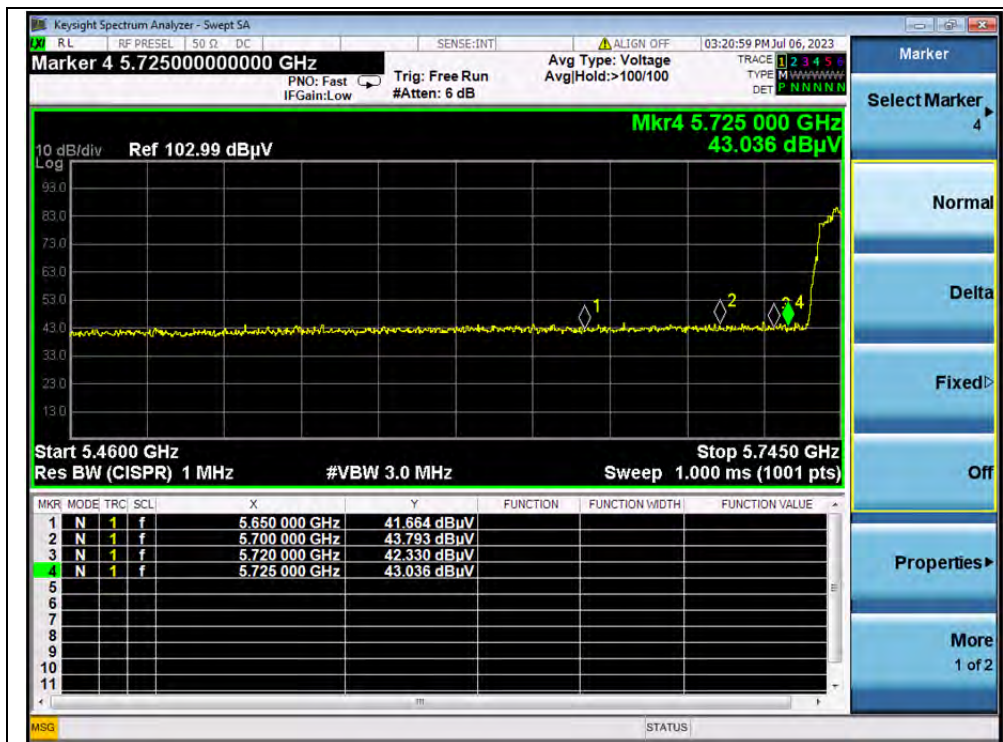
(PEAK, Channel 100, 802.11a)



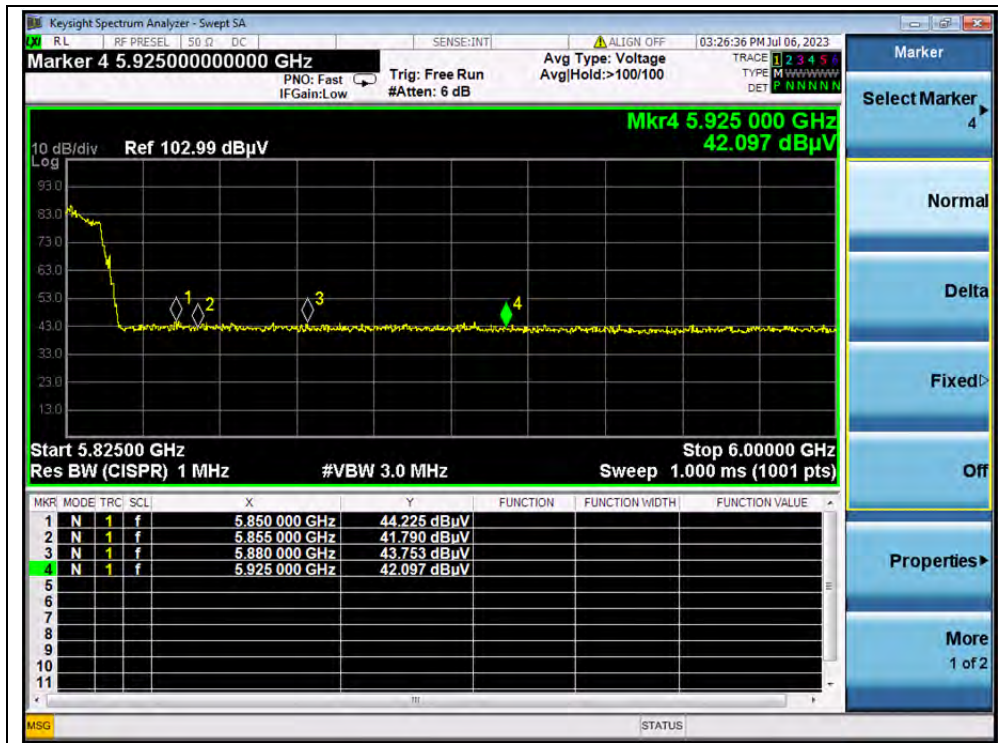
(AVERAGE, Channel 100, 802.11a)



(PEAK, Channel 144, 802.11a)



(PEAK, Channel 149, 802.11a)



(PEAK, Channel 165, 802.11a)

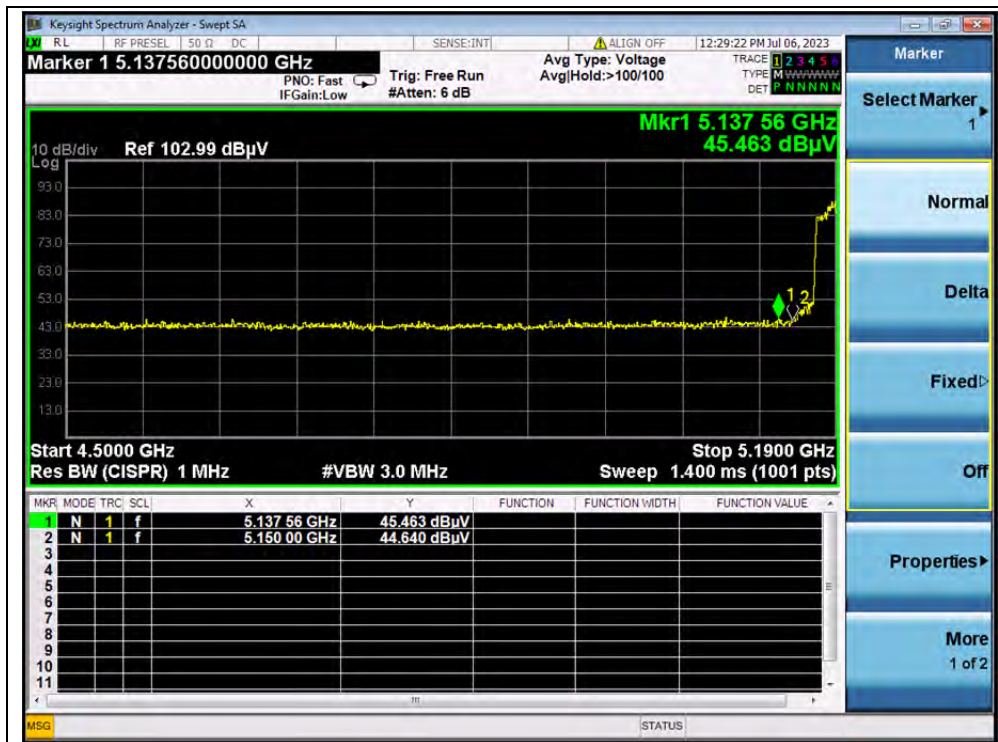


802.11n (HT40) Mode

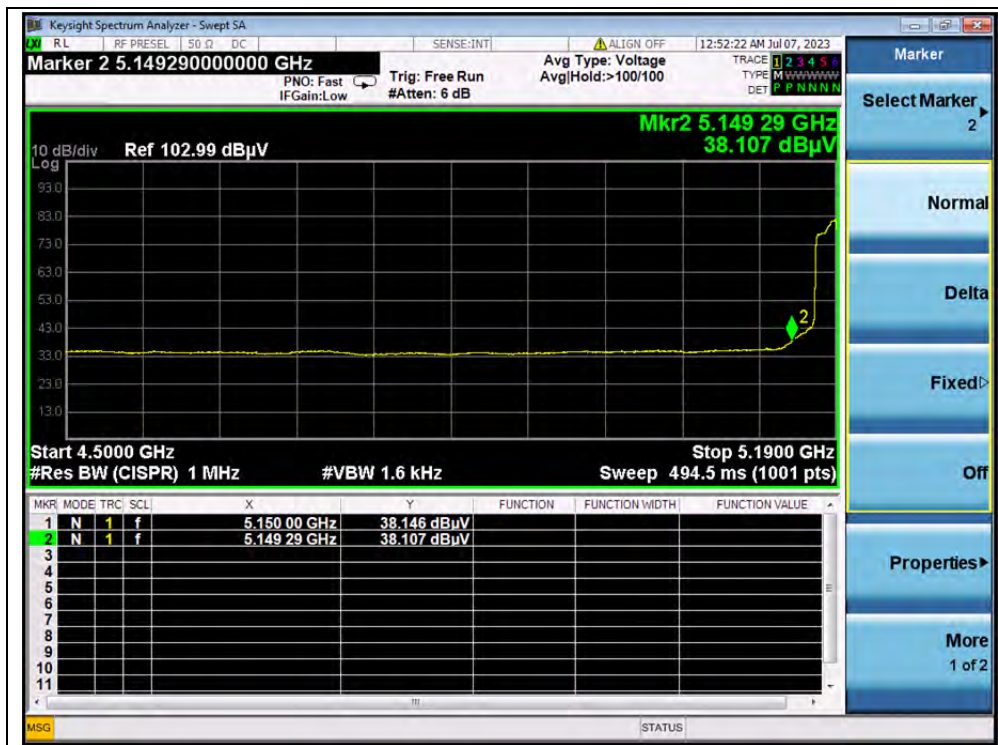
A. Test Verdict:

Channel	Frequency (MHz)	Detector	Receiver Reading	A_T	A_{Factor}	Max. Emission	Limit (dB μ V/m)	Verdict
		PK/ AV	U_R (dB μ V)	(dB)	(dB@3m)	E (dB μ V/m)		
38	5137.56	PK	45.46	-19.54	32.20	58.12	74	PASS
38	5150.00	AV	38.15	-19.54	32.20	50.81	54	PASS
62	5423.25	PK	43.55	-18.80	32.20	56.95	74	PASS
62	5350.50	AV	34.07	-18.80	32.20	47.47	54	PASS
102	5470.00	PK	43.96	-19.20	32.20	56.96	68.23	PASS
102	5460.00	AV	33.42	-19.20	32.20	46.42	54	PASS
142	5728.08	PK	45.14	-19.20	32.20	58.14	68.23	PASS
151	5725.00	PK	44.13	-19.01	32.20	57.32	122.23	PASS
159	5855.00	PK	43.41	-19.01	32.20	56.60	110.83	PASS

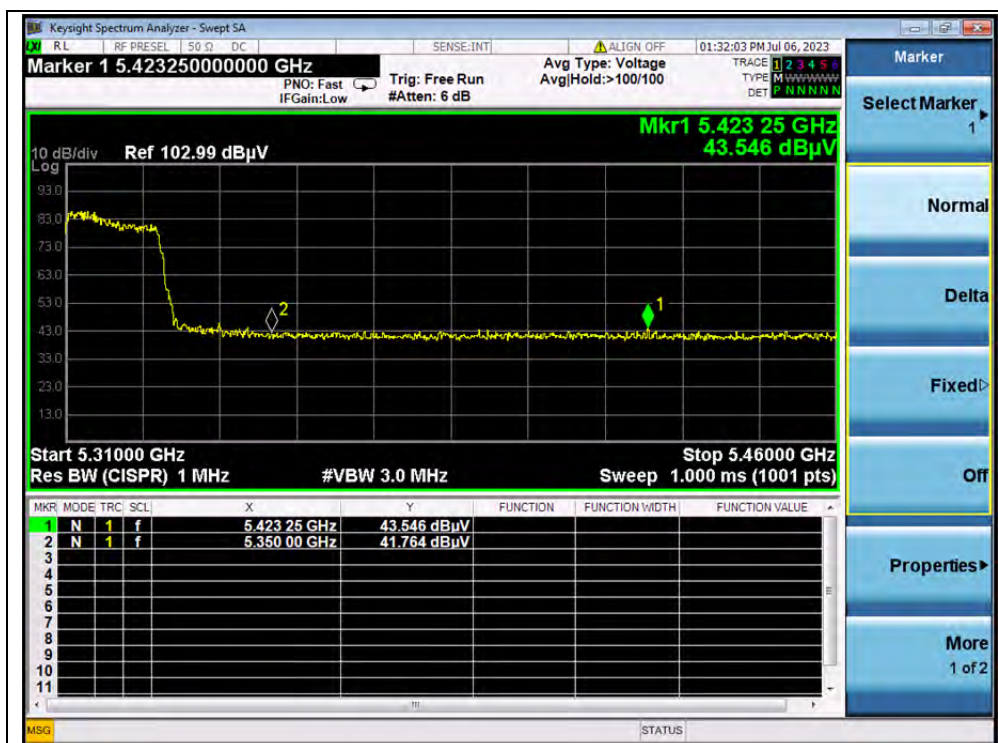
B. Test Plot:



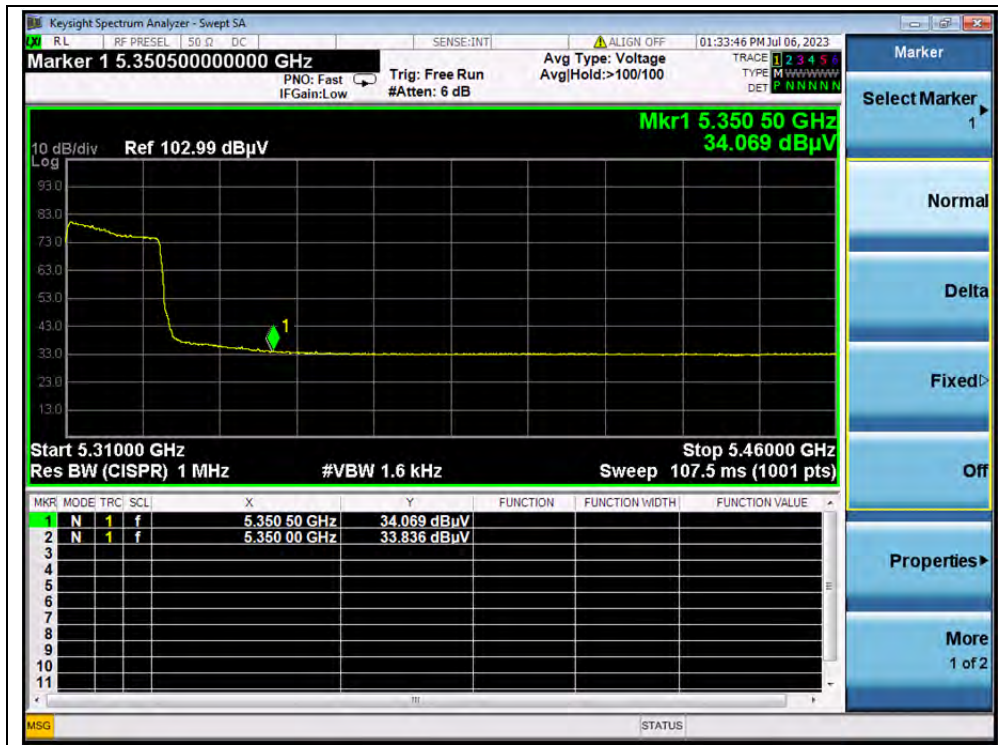
(PEAK, Channel 38, 802.11n (HT40))



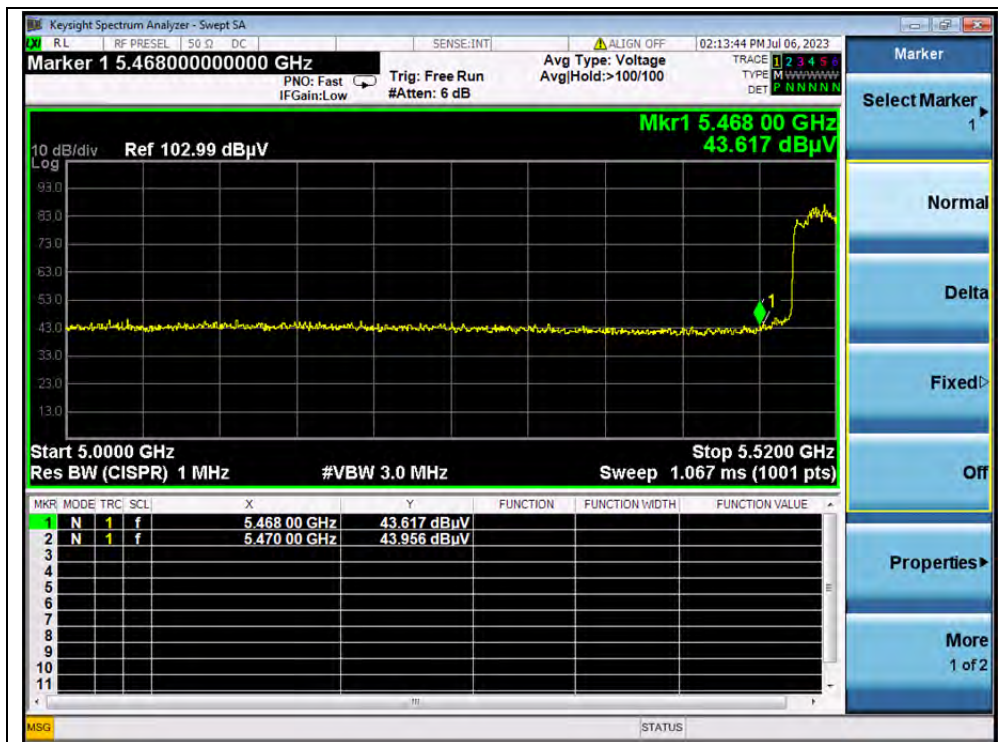
(AVERAGE, Channel 38, 802.11n (HT40))



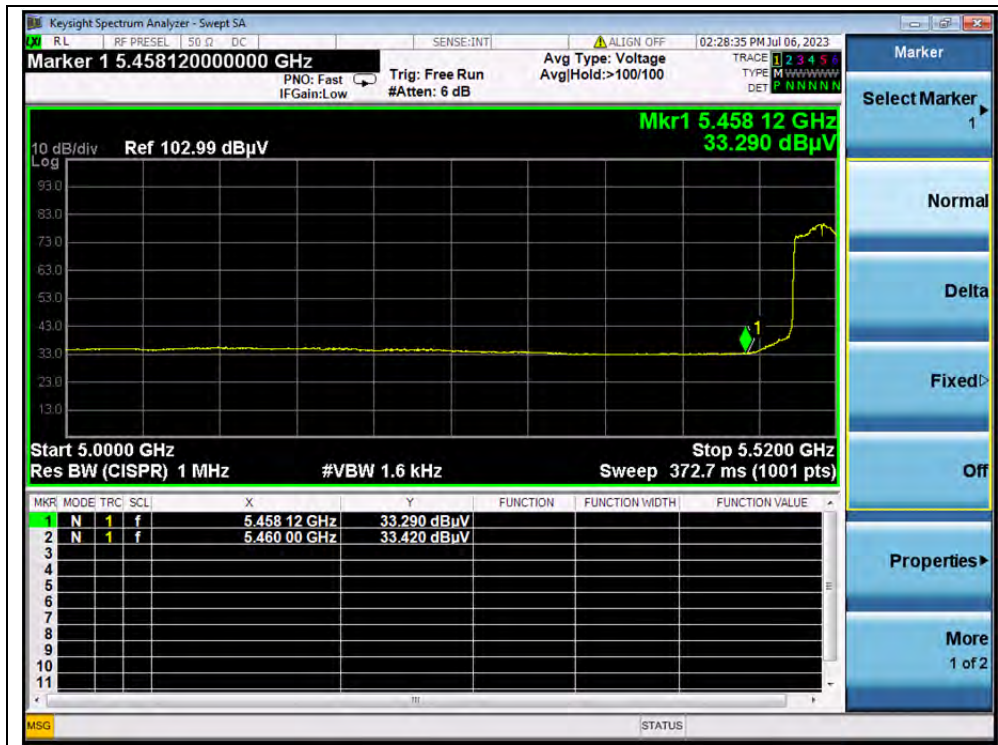
(PEAK, Channel 62, 802.11n (HT40))



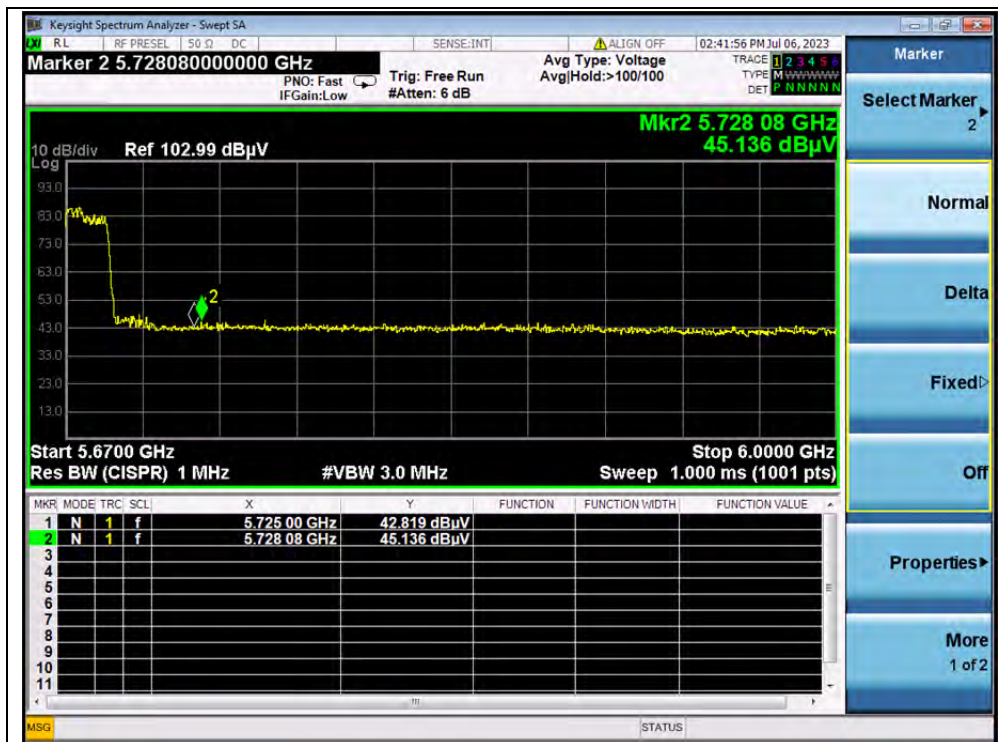
(AVERAGE, Channel 62, 802.11n (HT40))



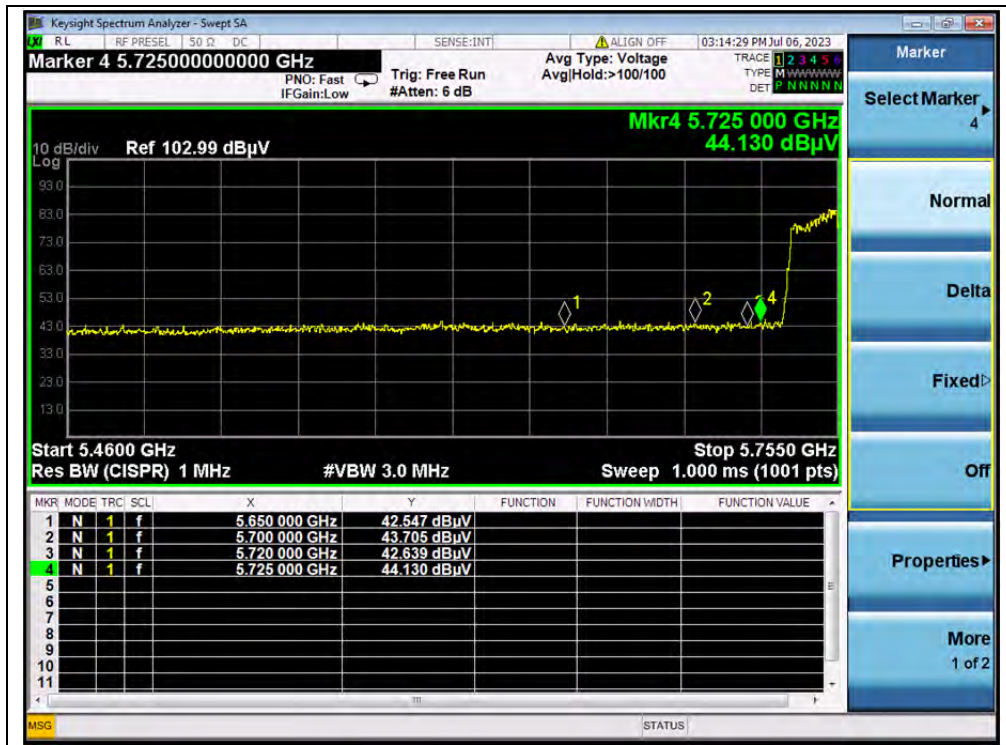
(PEAK, Channel 102, 802.11n (HT40))



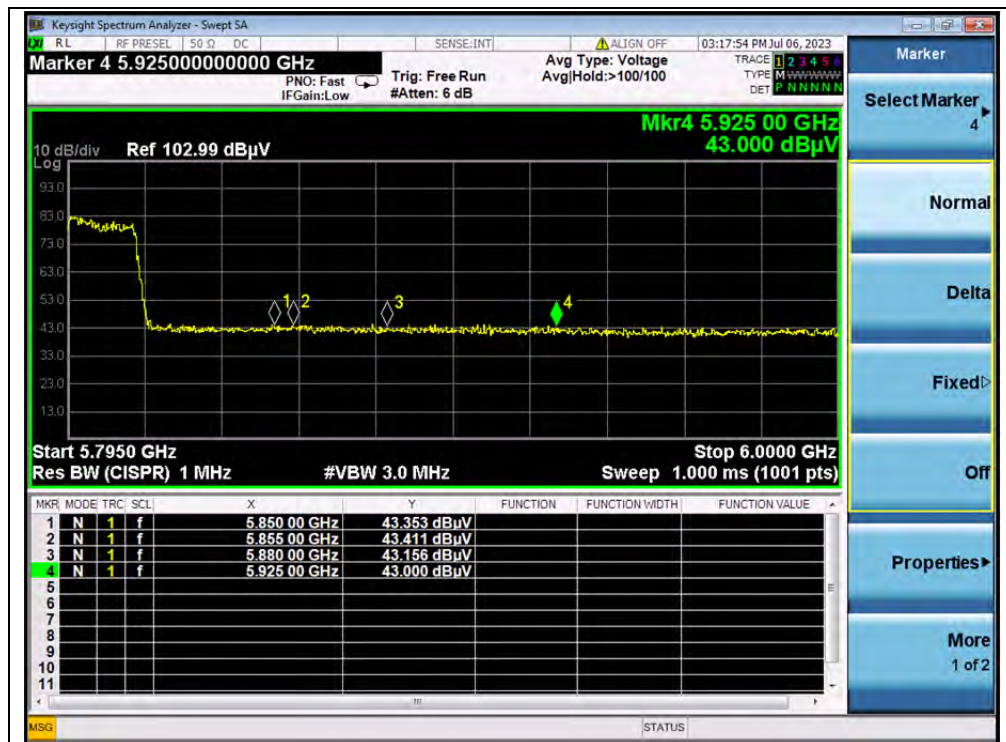
(AVERAGE, Channel 102, 802.11n (HT40))



(PEAK, Channel 142, 802.11n (HT40))



(PEAK, Channel 151, 802.11n (HT40))

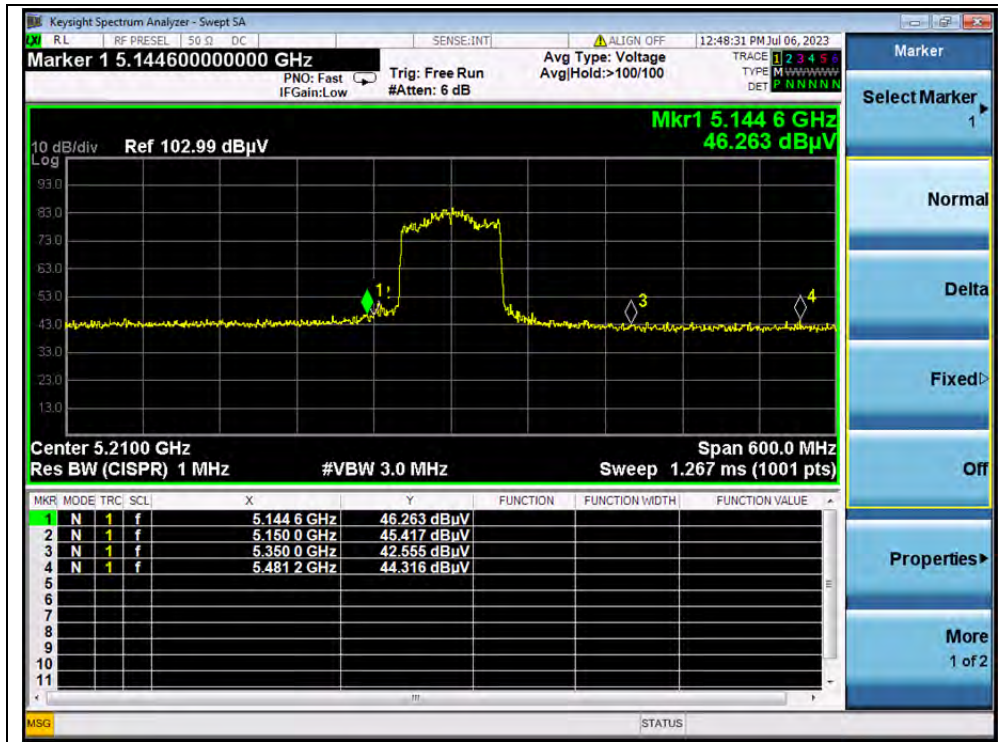


(PEAK, Channel 159, 802.11n (HT40))

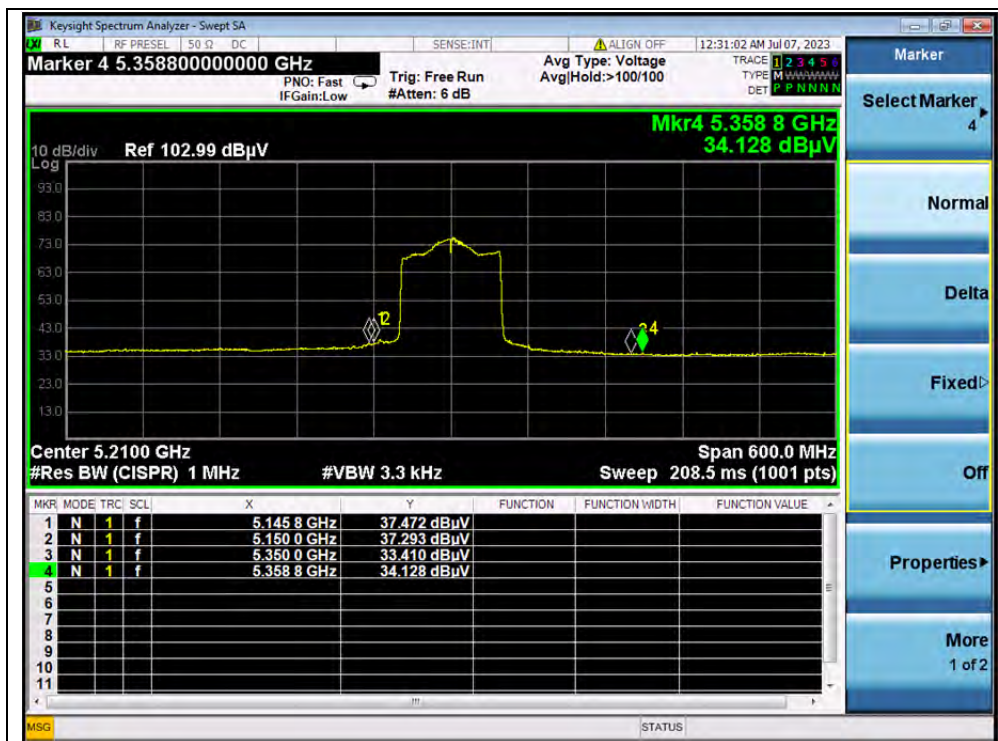
**802.11ac (VHT80) Mode****A.Test Verdict:**

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
42	5144.60	PK	46.26	-19.54	32.20	58.92	74	PASS
42	5145.80	AV	37.47	-19.54	32.20	50.13	54	PASS
58	5437.60	PK	44.27	-18.80	32.20	57.67	74	PASS
58	5355.40	AV	35.78	-18.80	32.20	49.18	54	PASS
106	5464.81	PK	45.19	-19.20	32.20	58.19	68.23	PASS
106	5460.00	AV	35.59	-19.20	32.20	48.59	54	PASS
138	5742.60	PK	45.42	-19.20	32.20	58.42	68.23	PASS
155	5725.00	PK	45.35	-19.01	32.20	58.54	68.23	PASS
155	5855.00	PK	43.75	-19.01	32.20	56.94	110.83	PASS

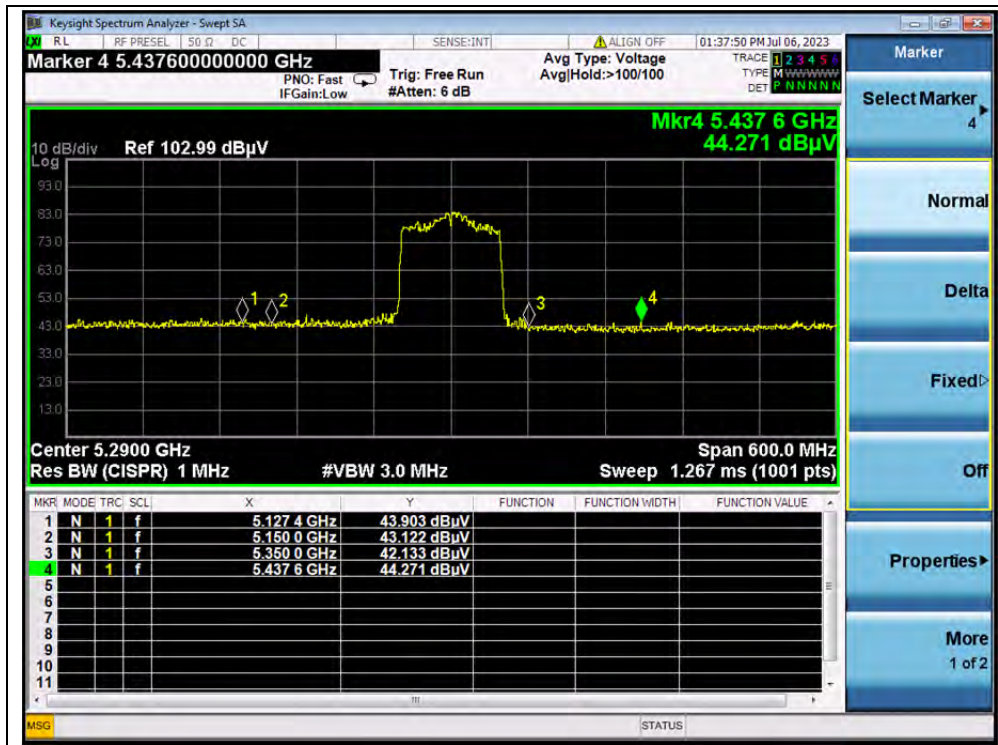
B.Test Plot:



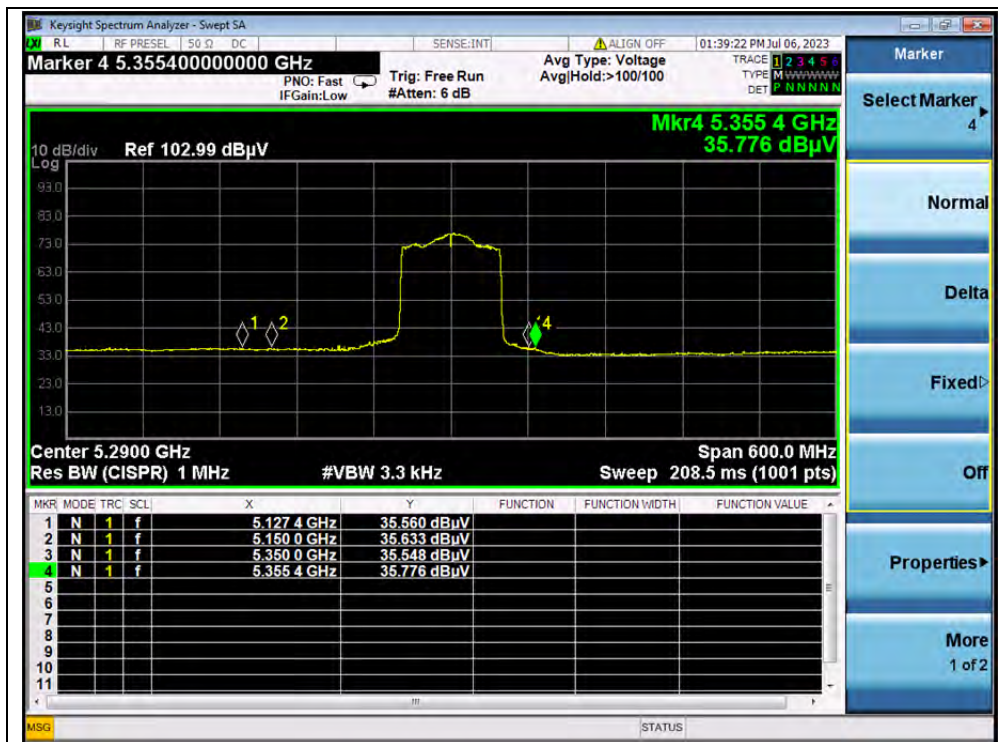
(PEAK, Channel 42, 802.11ac (VHT80))



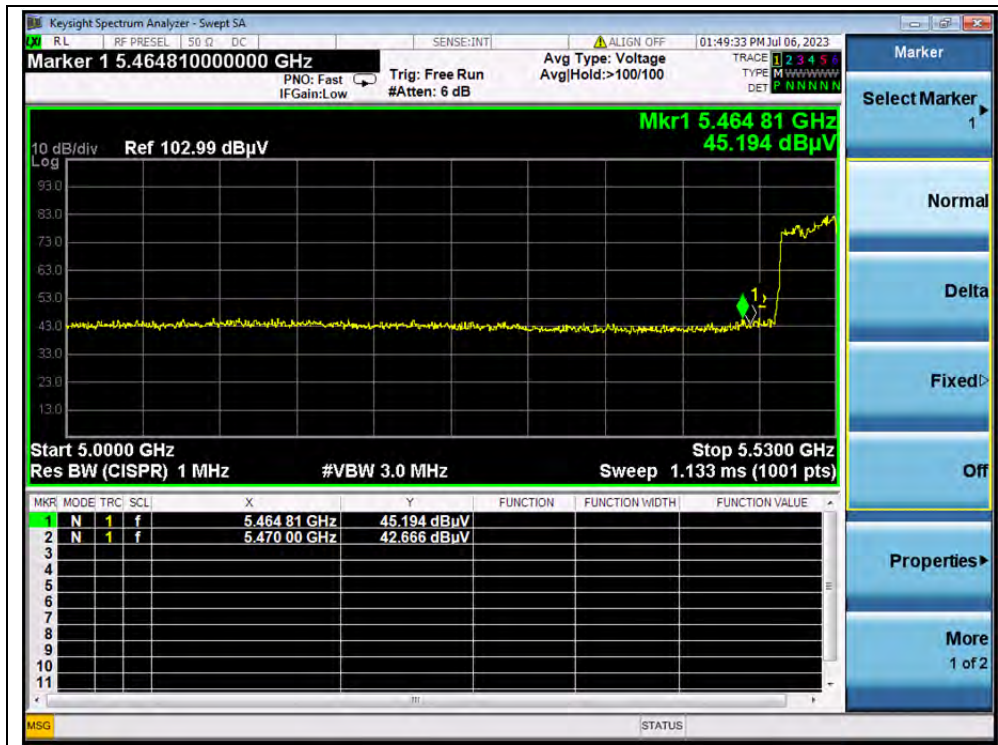
(AVERAGE, Channel 42, 802.11ac (VHT80))



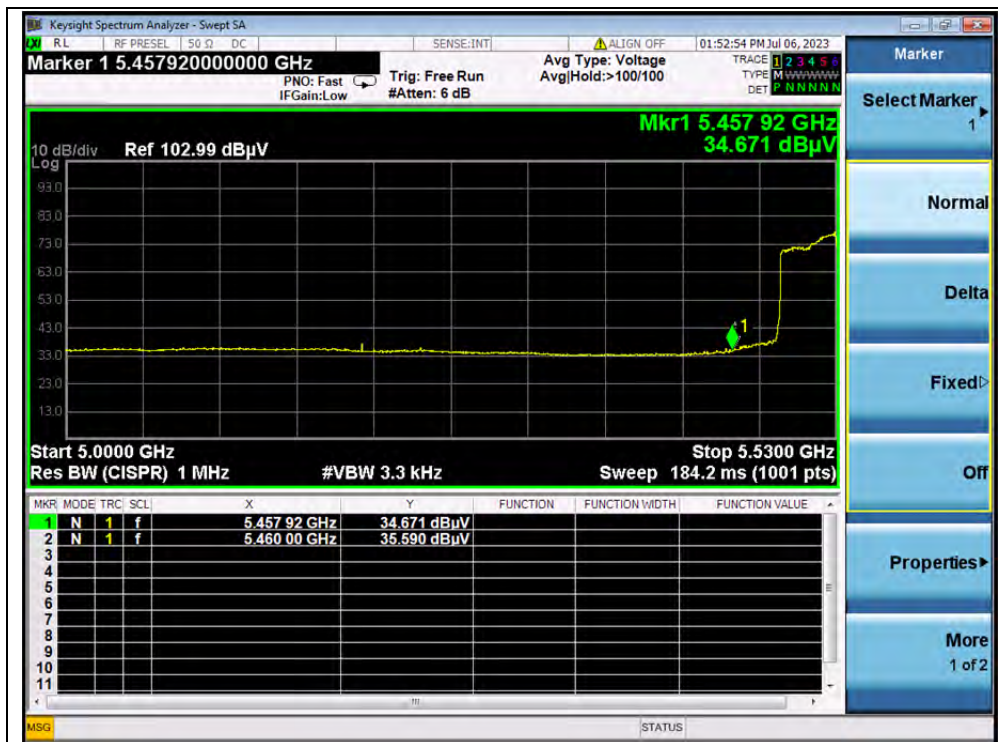
(PEAK, Channel 58, 802.11ac (VHT80))



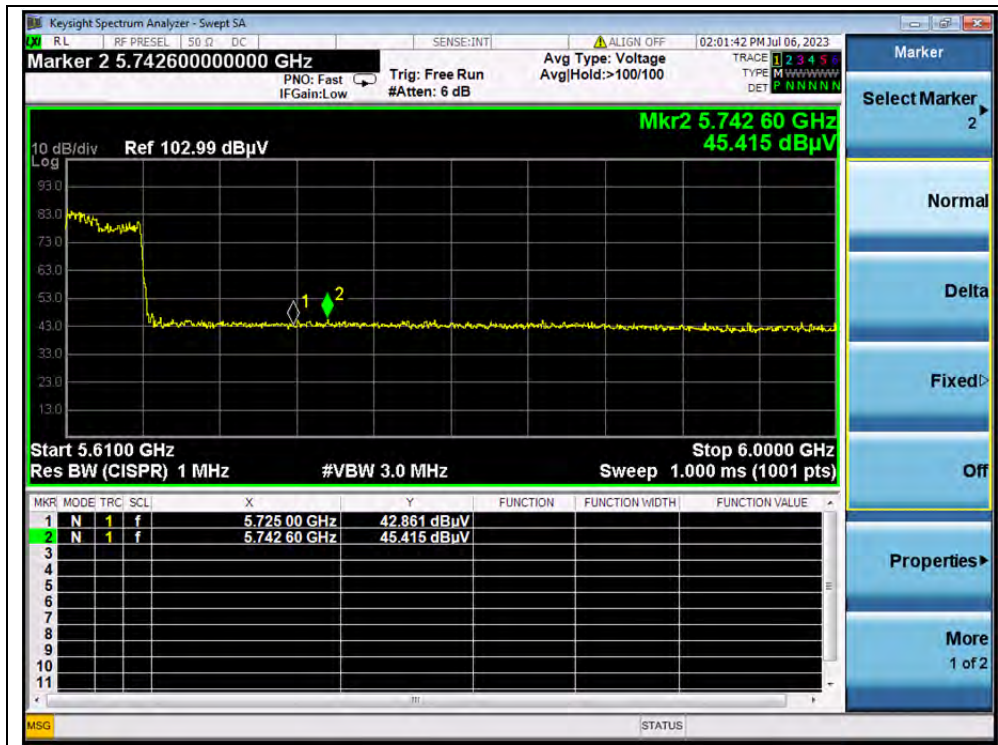
(AVERAGE, Channel 58, 802.11ac (VHT80))



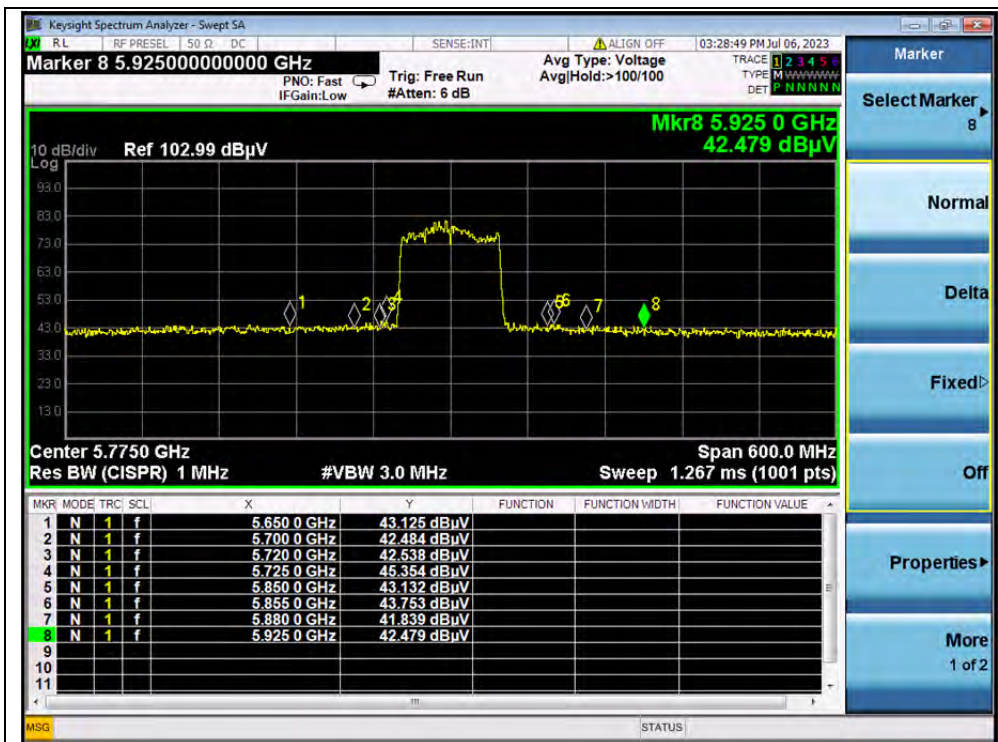
(PEAK, Channel 106, 802.11ac (VHT80))



(AVERAGE, Channel 106, 802.11ac (VHT80))



(PEAK, Channel 138, 802.11ac (VHT80))



(PEAK, Channel 155, 802.11ac (VHT80))



2.3. Radiated Emission

2.3.1. Requirement

The peak emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15–5.25 GHz band: all emissions outside of the 5.15–5.35 GHz band shall not exceed an EIRP of -27dBm/MHz.
- (2) For transmitters operating in the 5.25–5.35 GHz band: all emissions outside of the 5.15–5.35 GHz band shall not exceed an EIRP of -27dBm/MHz.
- (3) For transmitters operating in the 5.47–5.725 GHz band: all emissions outside of the 5.47–5.725 GHz band shall not exceed an EIRP of -27dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

The following formula is used to convert the equipment isotropic radiated power(e.i.r.p.) to field strength (dBμV/m);

$$E = 1000000 \times \sqrt{30P} / 3 \mu\text{V/m}$$

where P is the EIRP in Watts

Therefore: -27 dBm/MHz = 68.23 dBuV/m

Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209. According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

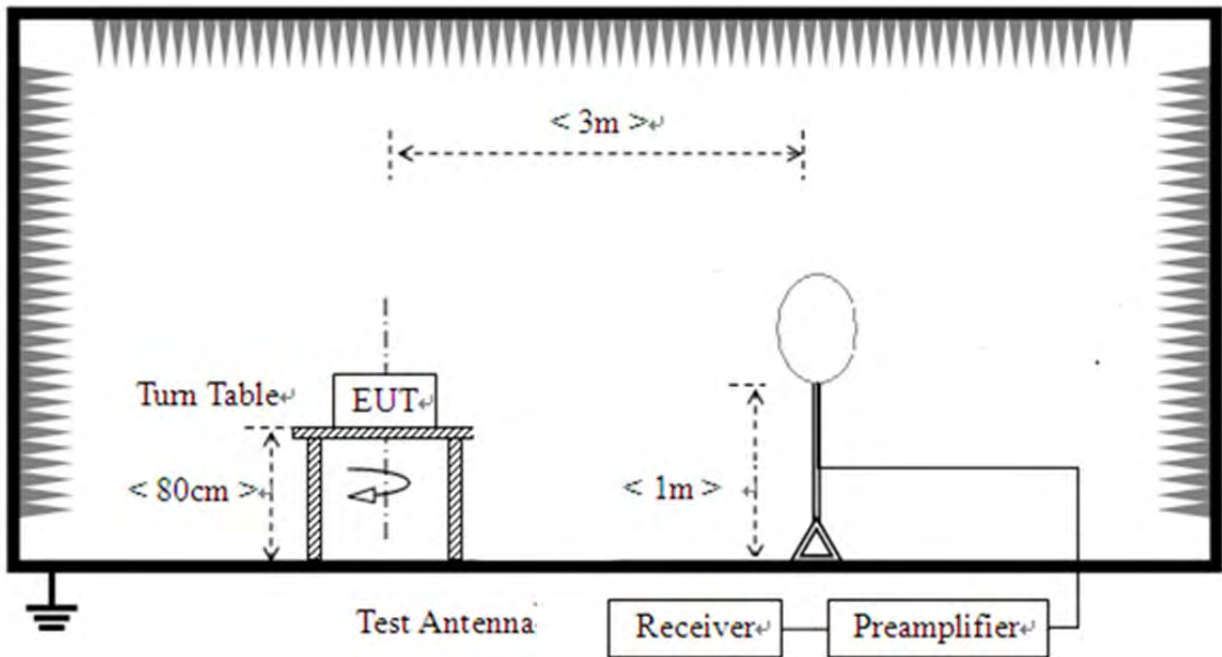
Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

For Above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table).

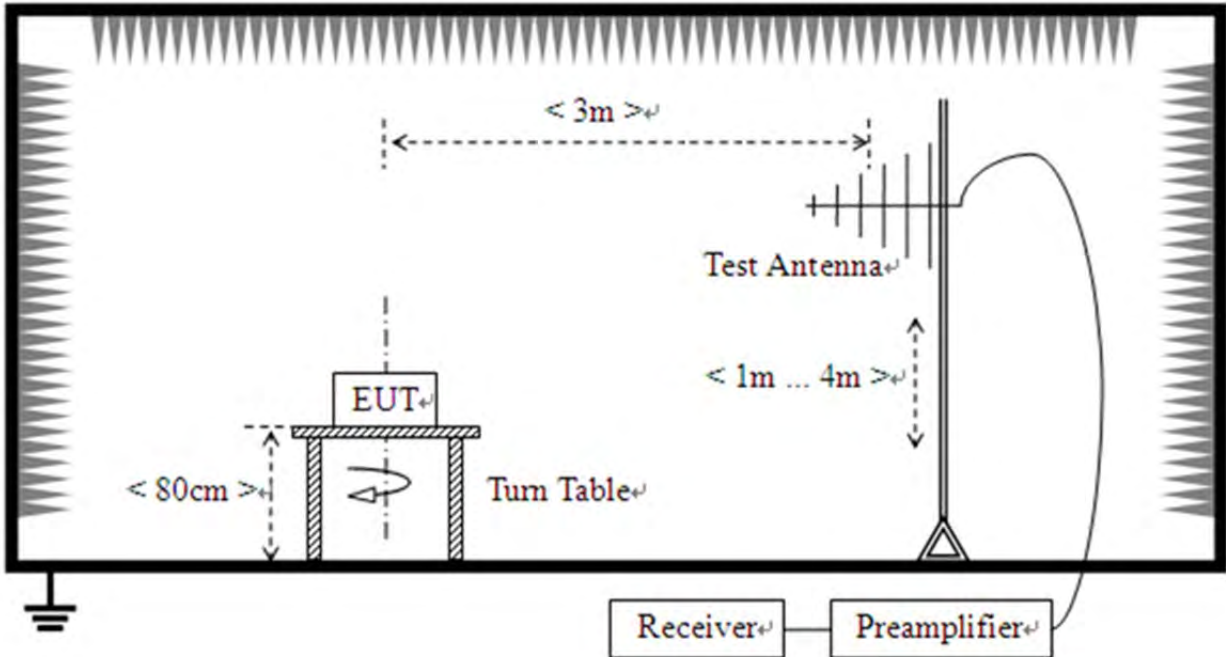
2.3.2. Test Description

Test Setup:

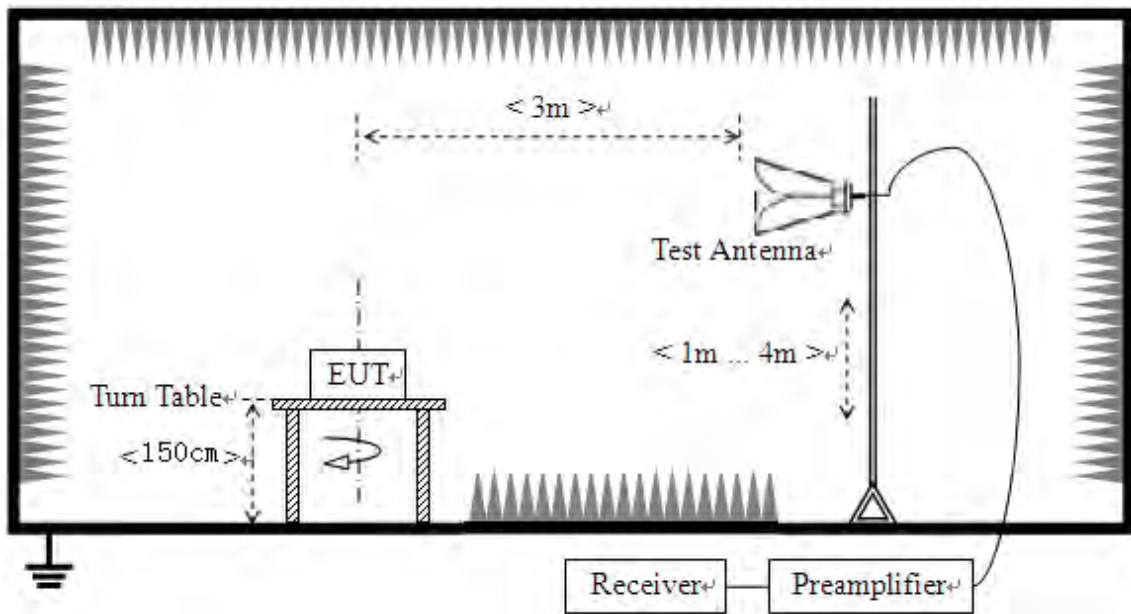
- 1) For radiated emissions from 9kHz to 30MHz



2) For radiated emissions from 30MHz to1GHz



3) For radiated emissions above 1GHz



The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.



For measurements below 30MHz, the emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9kHz-90 kHz, 110kHz-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

For measurements below 1GHz the resolution bandwidth is set to 100kHz for peak detection measurements or 120kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1GHz the resolution bandwidth is set to 1MHz, the video band width is set to 3MHz for peak measurements and as applicable for average measurements.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

2.3.3. Test Result

According to ANSI C63.10, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak (or average) limit, it is unnecessary to perform a quasi-peak measurement (or average).

The measurement results are obtained as below:

$$E \text{ [dB}\mu\text{V/m]} = U_R + A_T + A_{\text{Factor}} \text{ [dB]}; A_T = L_{\text{Cable loss}} \text{ [dB]} - G_{\text{preamp}} \text{ [dB]}$$

A_T : Total correction Factor except Antenna

U_R : Receiver Reading

G_{preamp} : Preamplifier Gain

A_{Factor} : Antenna Factor at 3m

During the test, the total correction Factor A_T and A_{Factor} were built in test software.

Note 1: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Note 2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

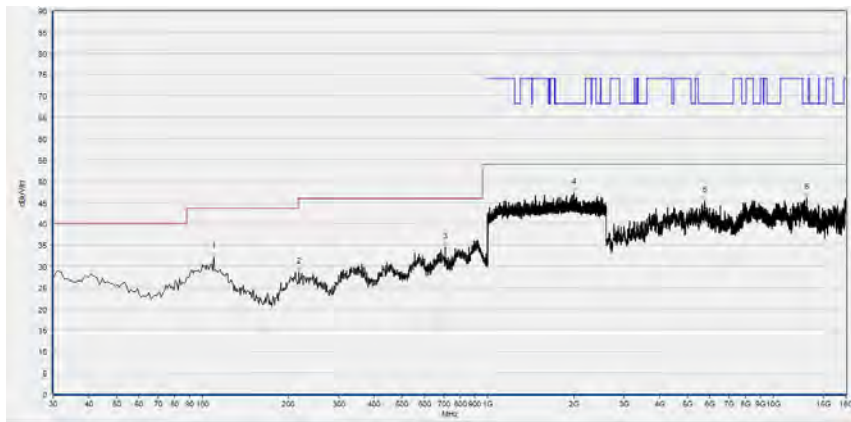
Note 3: For the frequency, which started from 18GHz to 10th harmonic of the highest frequency, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

Note 4: All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.



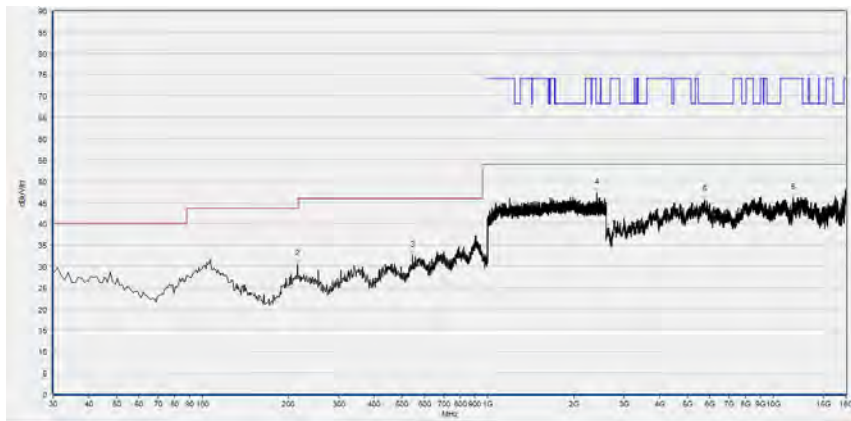
802.11a Mode

Plot for Channel 36



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
109.540	32.22	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
217.210	28.63	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
708.030	34.47	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2003.733	47.23	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5757.000	45.43	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
13102.800	46.16	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

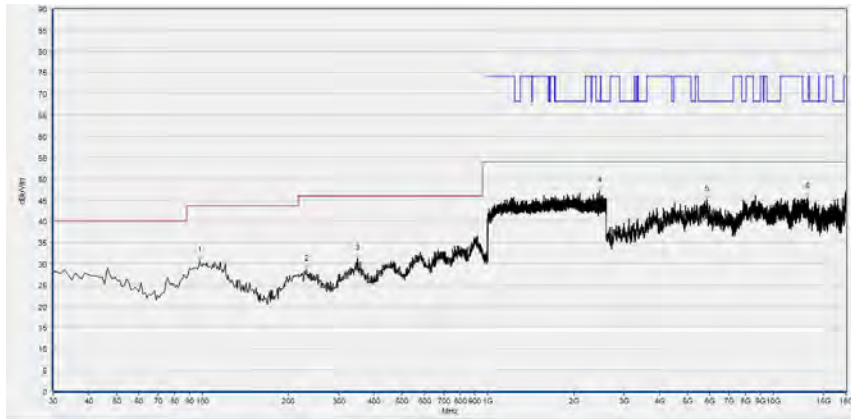
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
106.630	30.81	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
215.270	30.54	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
545.070	32.47	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2411.200	47.32	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5760.080	45.59	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
11759.920	46.07	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

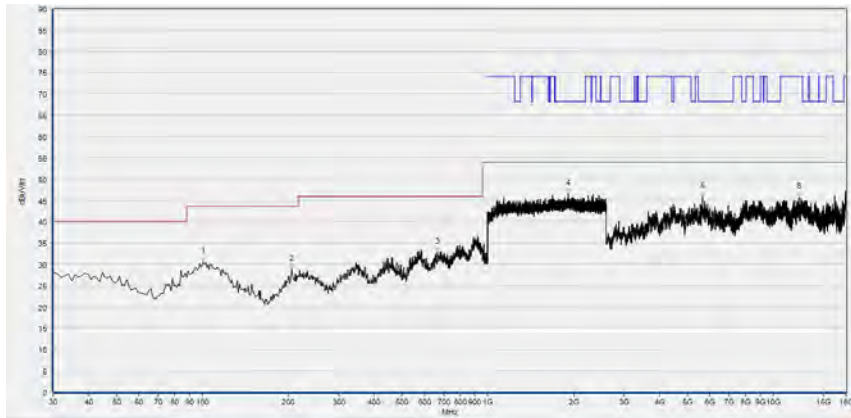
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 44



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
97.900	30.63	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
231.760	28.68	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
349.130	31.19	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2458.133	47.04	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5861.720	45.05	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
13189.040	45.54	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

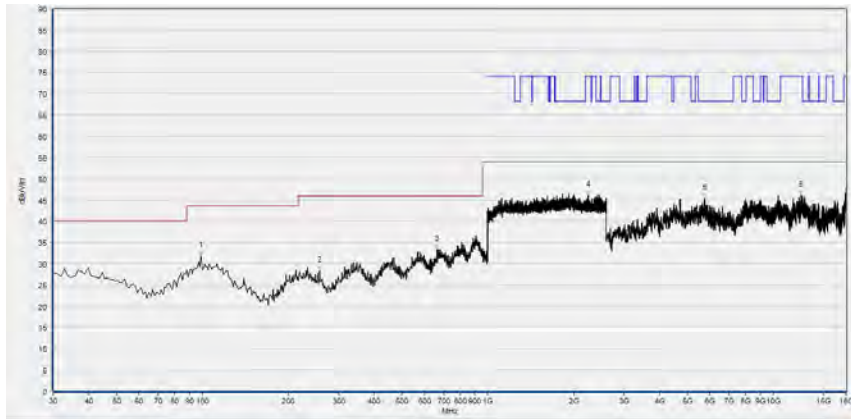
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
100.810	30.74	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
205.570	28.76	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
665.350	32.80	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1915.200	46.58	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5639.960	45.84	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12305.080	45.67	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

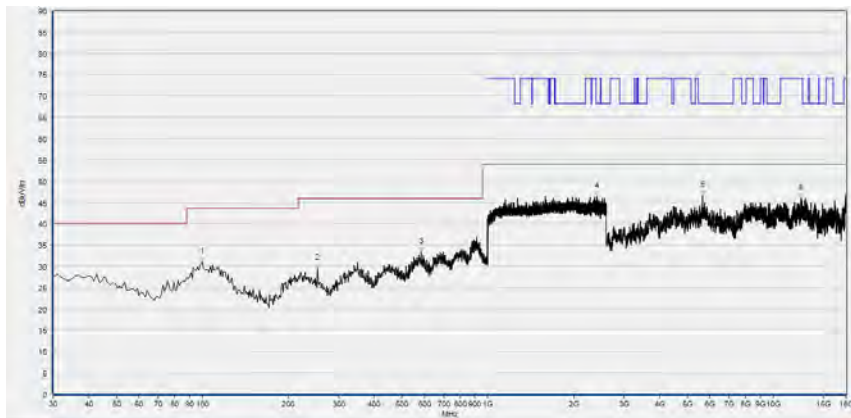
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 48



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
98.870	31.82	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
257.950	28.36	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
663.410	33.34	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2242.667	46.12	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5750.840	45.35	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12536.080	46.02	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

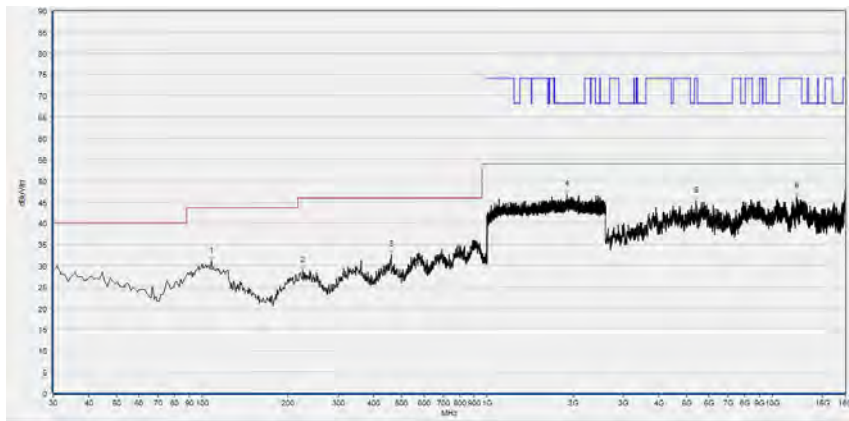
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
99.840	31.08	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
253.100	29.48	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
584.840	33.33	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2412.800	46.45	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5646.120	46.64	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12529.920	45.97	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

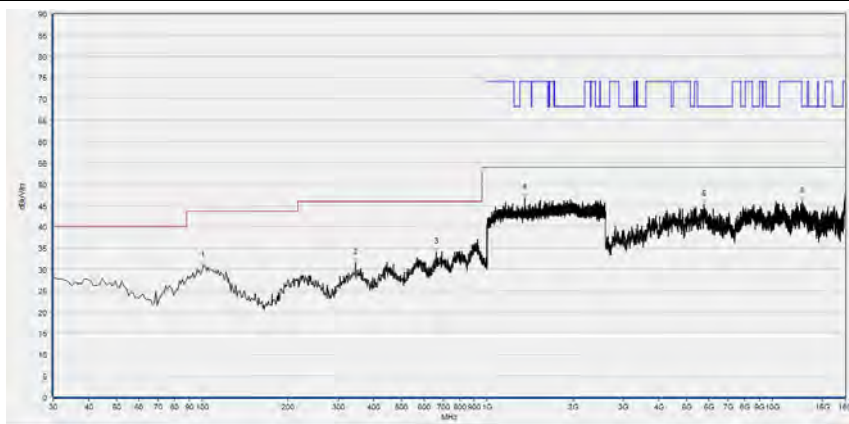
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 52



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
107.600	31.05	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
224.970	28.79	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
459.710	32.50	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1904.533	46.76	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5402.800	45.25	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12154.160	46.22	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

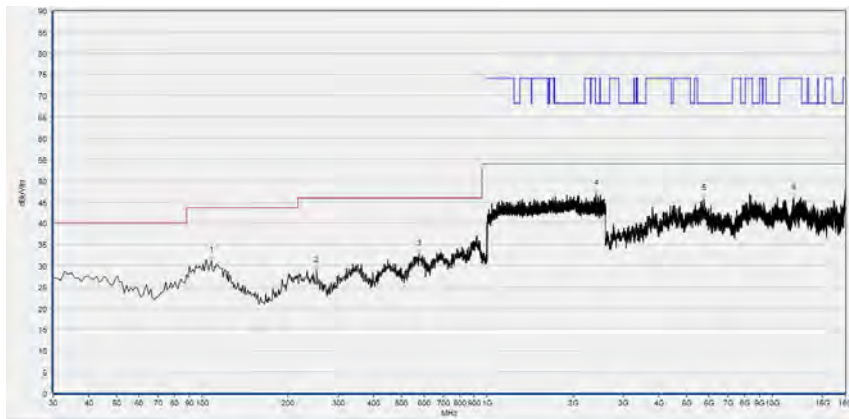
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
100.810	30.78	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
345.250	31.47	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
661.470	34.08	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1353.067	46.77	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5750.840	45.25	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12742.440	45.88	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

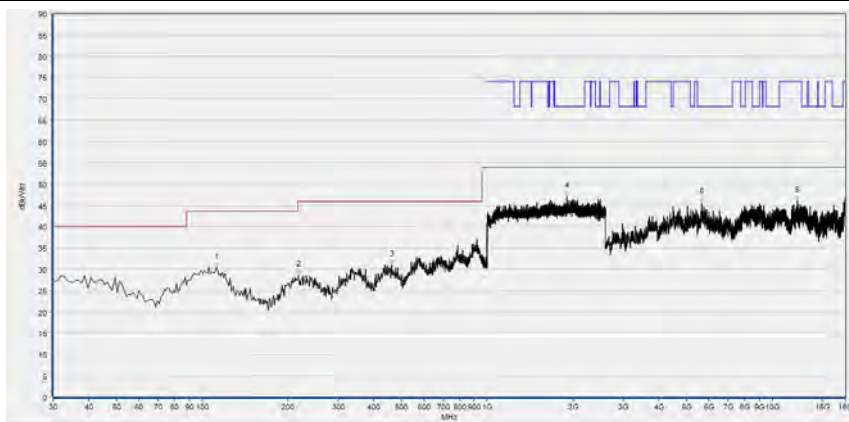
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 60



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
107.600	31.16	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
252.130	28.86	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
576.110	32.69	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2411.733	46.89	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5766.240	45.79	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11867.720	45.95	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

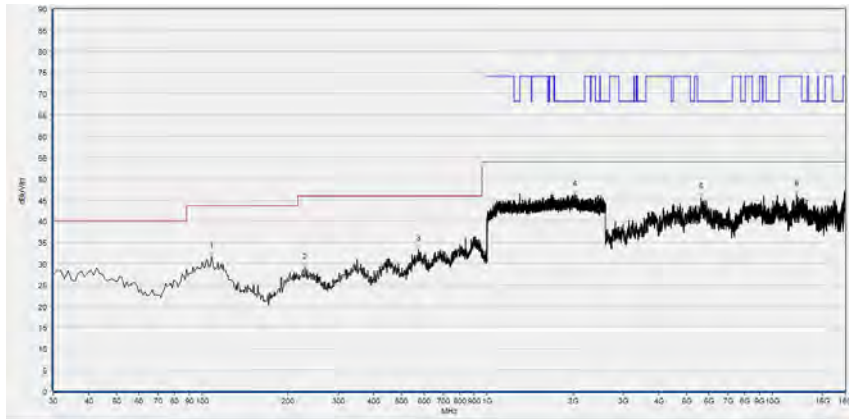
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
112.450	30.33	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
217.210	28.74	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
462.620	30.94	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1906.133	47.06	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5649.200	45.67	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12203.440	46.10	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

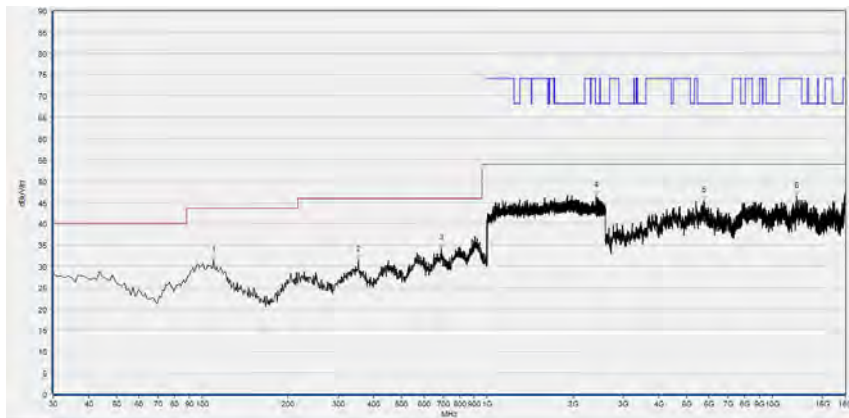
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 64



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
107.600	31.60	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
229.820	29.02	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
573.200	33.31	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2032.000	46.26	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5633.800	45.54	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12157.240	46.30	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

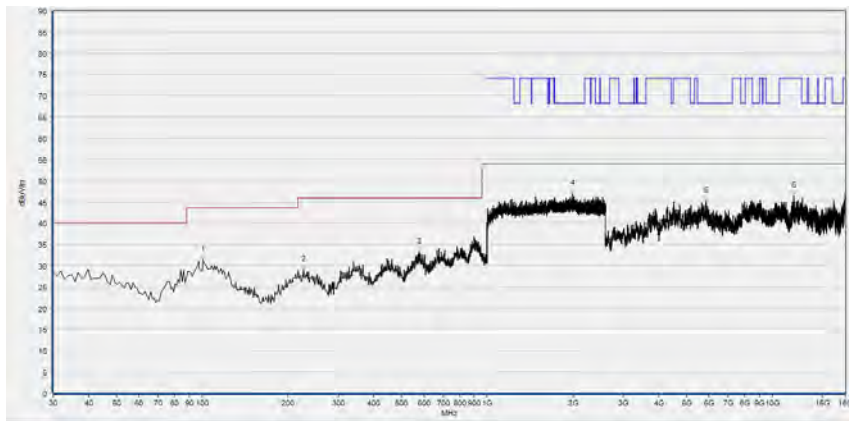
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
109.540	31.34	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
353.010	31.49	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
689.600	34.24	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2413.867	46.61	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5753.920	45.50	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12163.400	46.39	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

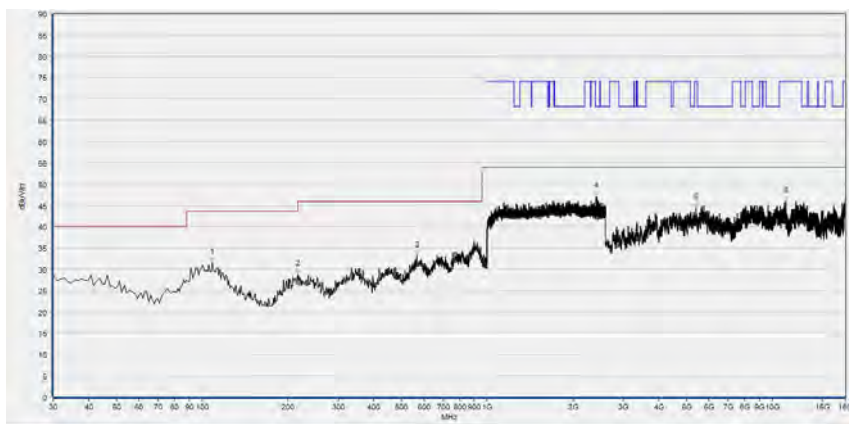
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 100



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
100.810	31.37	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
226.910	28.95	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
576.110	33.15	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1989.867	46.96	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5855.560	45.23	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11886.200	46.39	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

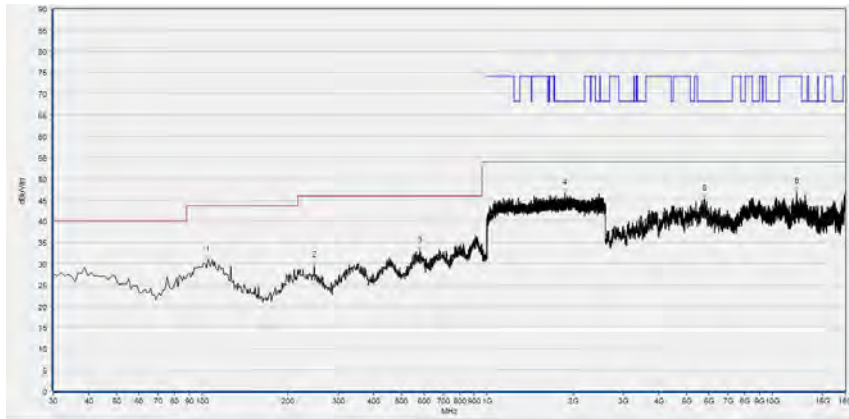
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
108.570	31.54	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
216.240	28.75	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
565.440	33.10	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2406.933	47.12	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5393.560	44.33	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
11131.600	46.00	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

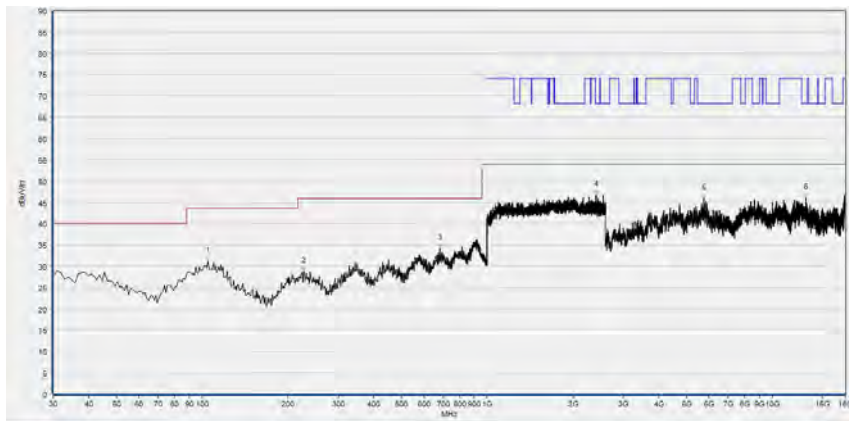
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 120



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
104.690	30.79	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
247.280	29.53	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
579.020	32.95	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1874.133	46.58	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5778.560	45.23	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12181.880	46.92	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

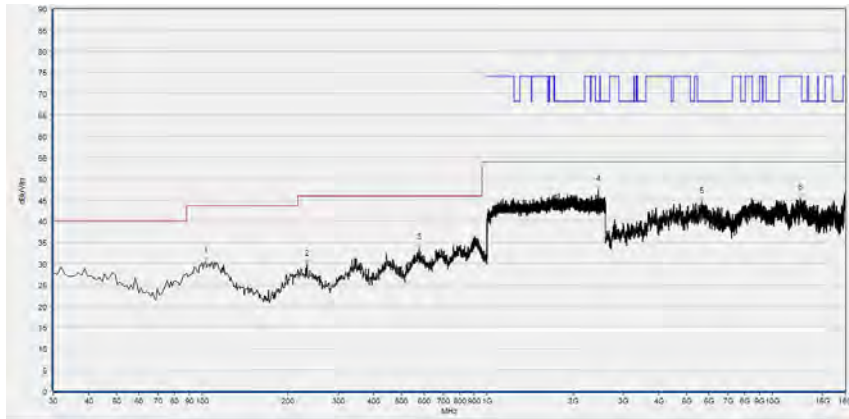
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
104.690	31.15	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
226.910	28.91	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
682.810	34.24	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2411.200	46.68	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5750.840	45.98	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
13093.560	46.06	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

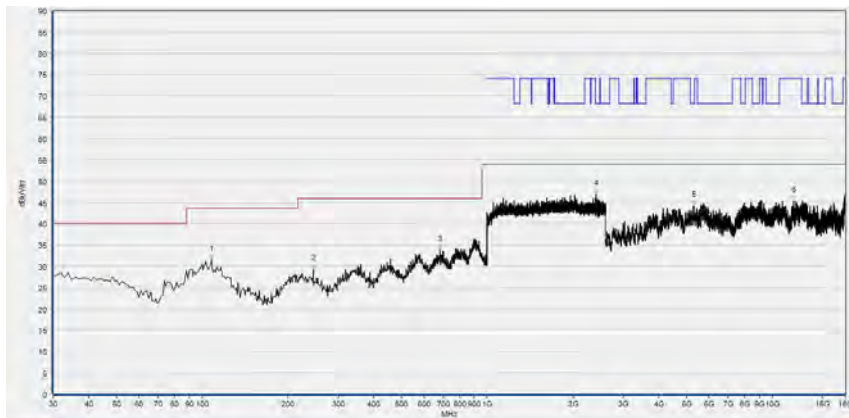
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 144



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
102.750	30.58	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
233.700	29.79	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
577.080	33.70	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2457.600	47.49	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5646.120	44.66	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12526.840	45.35	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

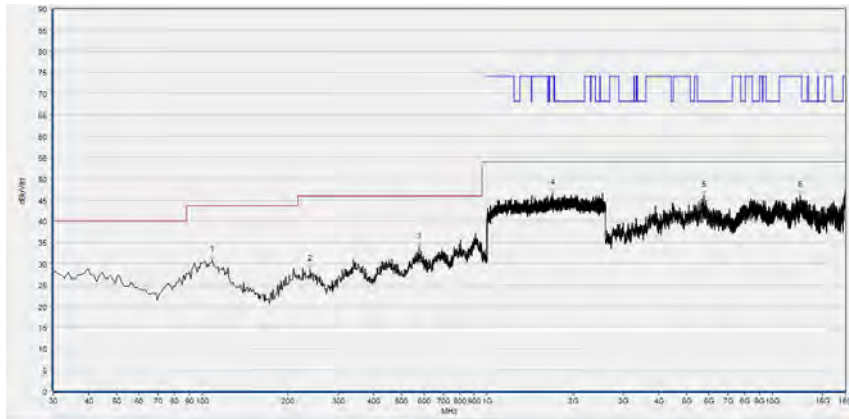
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
107.600	31.57	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
245.340	29.32	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
680.870	33.80	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2405.333	46.87	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5304.240	44.25	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
11864.640	45.40	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

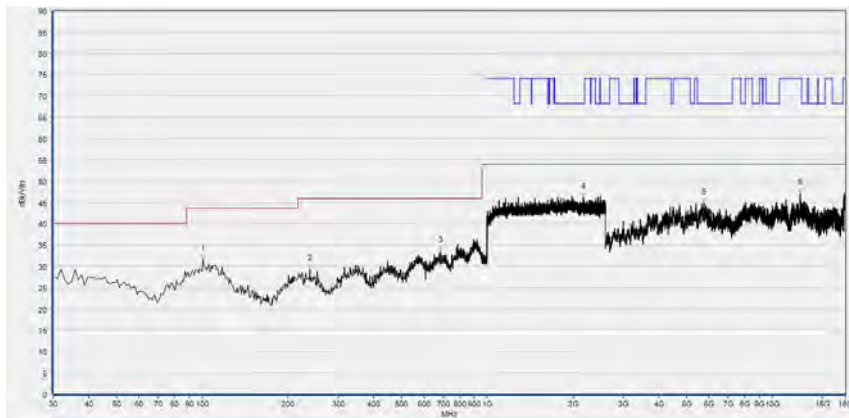
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 149



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
108.570	30.86	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
239.520	28.64	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
577.080	33.86	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1698.667	46.66	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5760.080	46.12	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12517.600	46.14	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

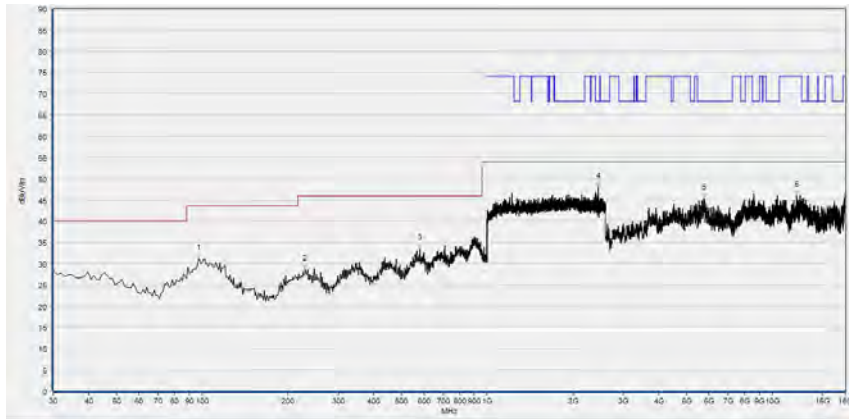
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
100.810	31.74	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
238.550	29.40	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
684.750	33.56	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2173.333	46.29	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5750.840	44.93	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12542.240	47.08	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

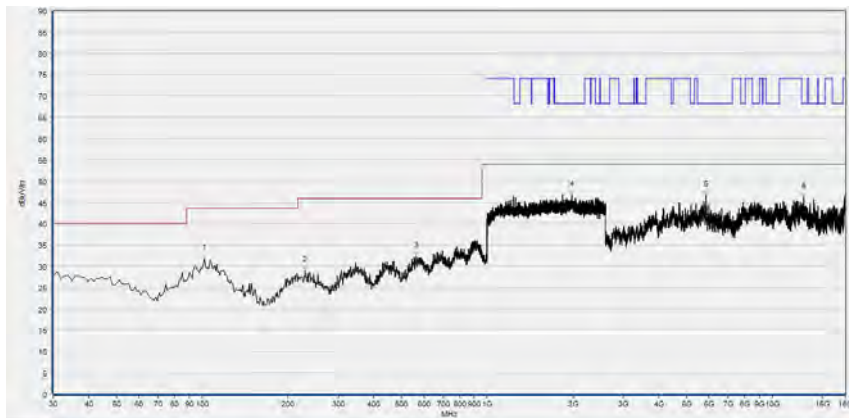
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 157



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
96.930	31.17	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
229.820	28.60	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
580.960	33.48	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2455.467	48.14	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5744.680	45.49	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12166.480	46.05	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

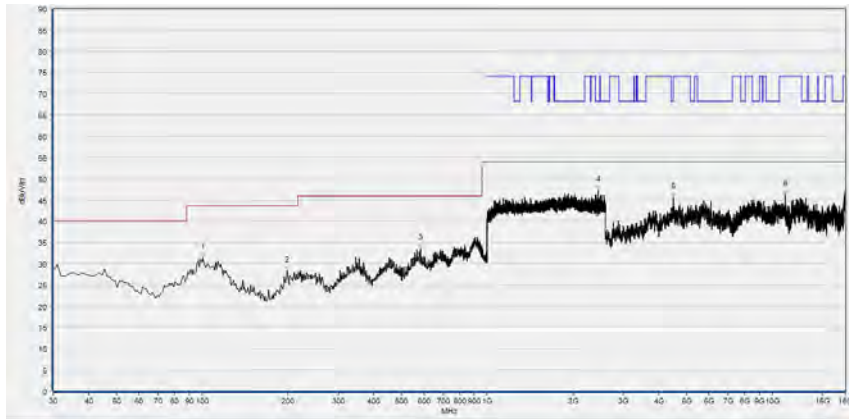
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
101.780	31.80	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
229.820	28.93	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
562.530	32.36	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1980.267	46.71	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5864.800	46.79	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12887.200	46.33	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

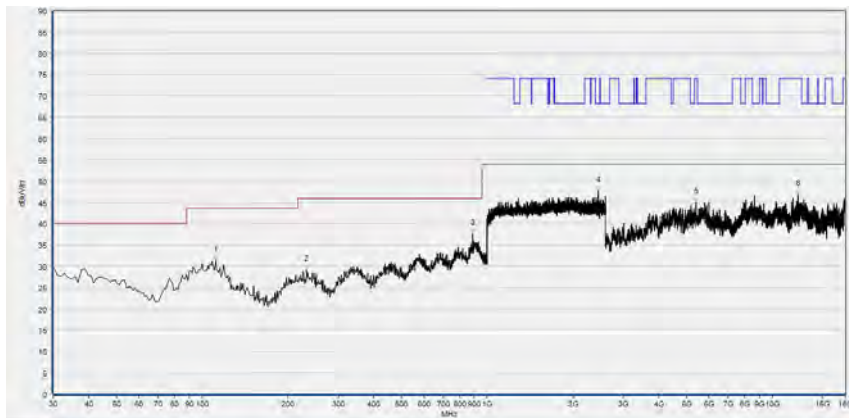
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 165



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
100.810	31.35	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
198.780	28.37	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
583.870	33.48	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2456.533	47.23	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4500.360	45.66	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11119.280	46.33	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

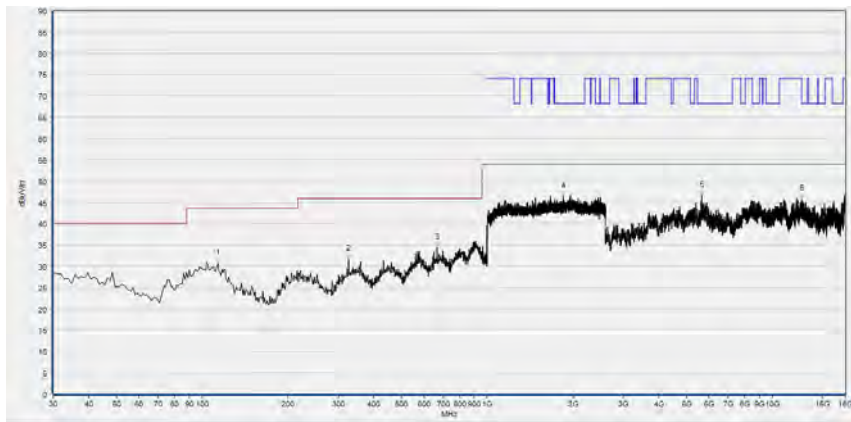


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
111.480	31.27	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
232.730	29.21	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
887.480	37.67	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2451.200	47.78	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5399.720	45.13	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12302.000	46.85	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

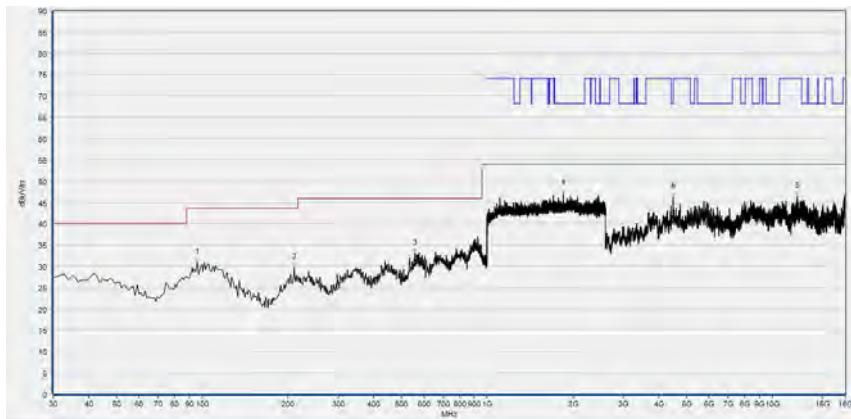
802.11n (HT40) mode

Plot for Channel 38



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
113.420	30.73	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
326.820	31.67	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
667.290	34.28	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1852.800	46.40	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5639.960	46.64	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12653.120	45.70	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

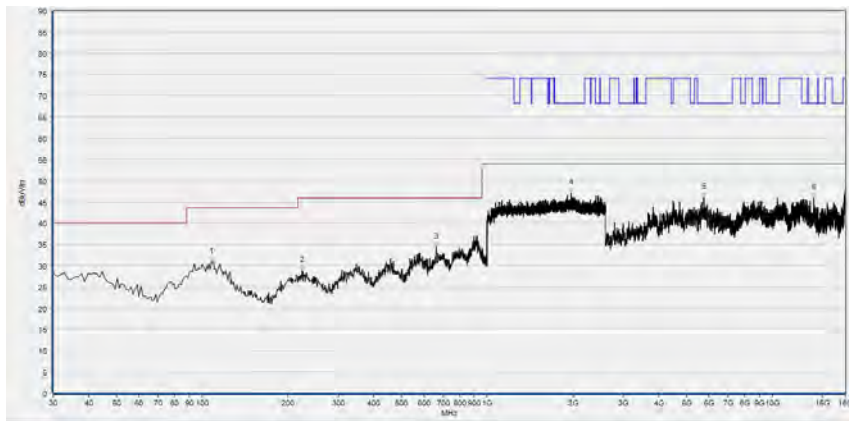
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
95.960	30.84	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
210.420	29.60	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
557.680	33.02	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1846.400	47.13	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4484.960	46.18	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12203.440	46.37	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

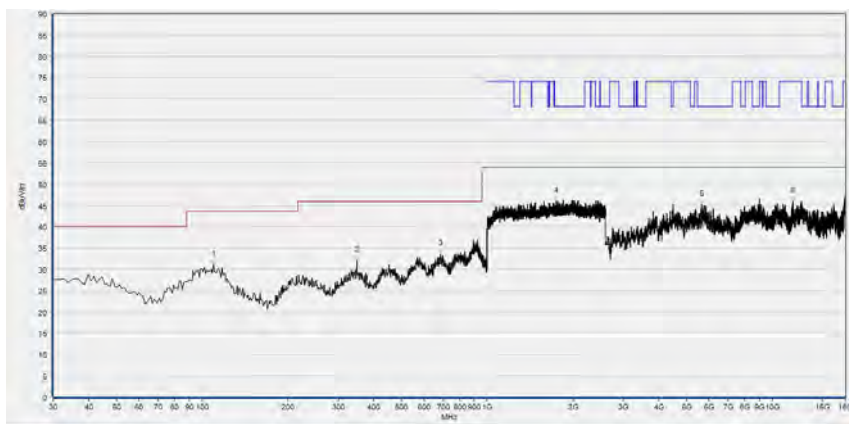
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 46



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
107.600	30.84	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
224.000	28.90	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
661.470	34.35	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1970.133	47.03	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5753.920	46.11	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
13986.760	45.97	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

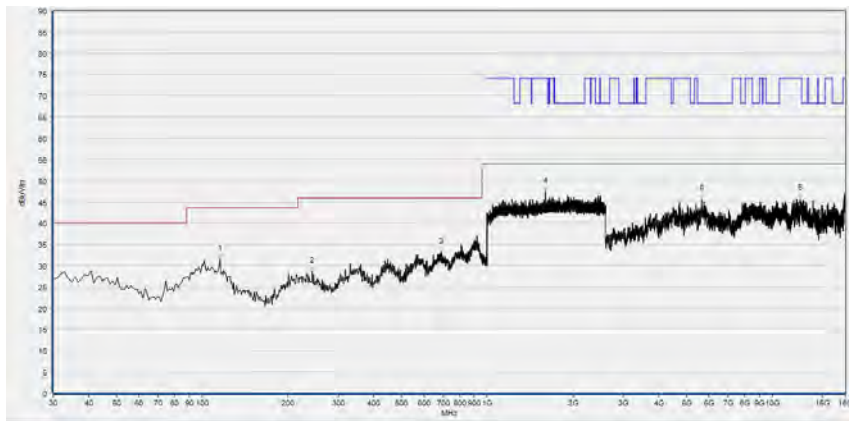
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
109.540	31.07	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
349.130	32.07	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
685.720	33.46	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1741.333	45.92	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5636.880	45.22	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
11809.200	45.98	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

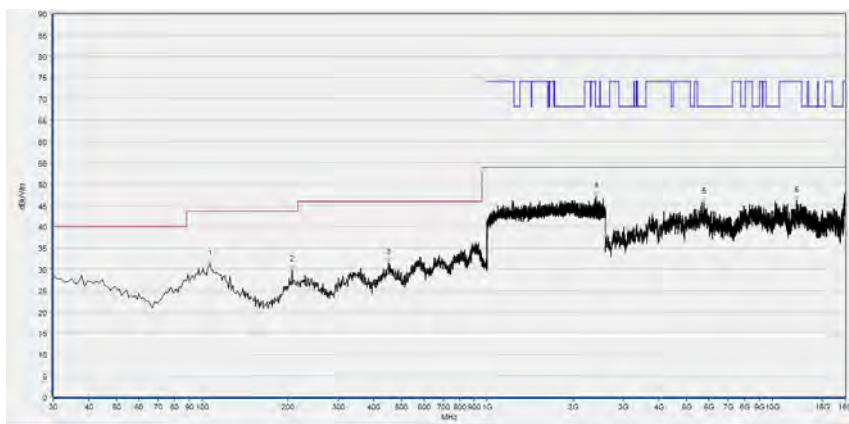
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 54



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
115.360	31.53	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
243.400	28.74	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
690.570	33.26	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1596.267	47.48	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5661.520	45.52	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12548.400	45.80	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

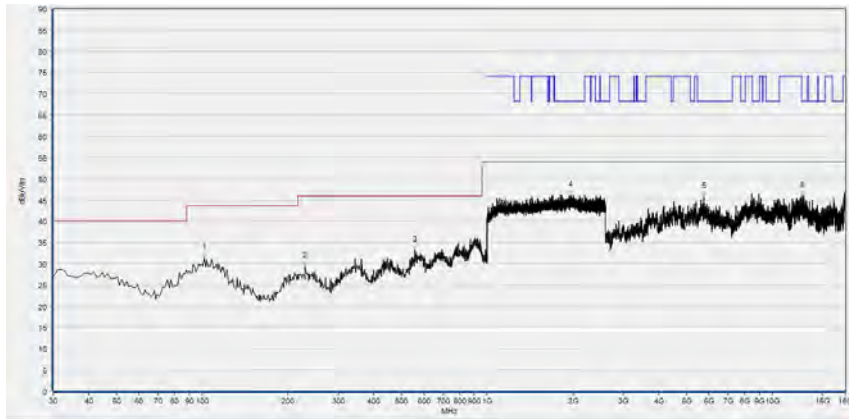
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
106.630	31.12	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
206.540	29.80	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
450.010	31.59	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2412.267	47.07	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5741.600	45.77	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12194.200	46.14	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

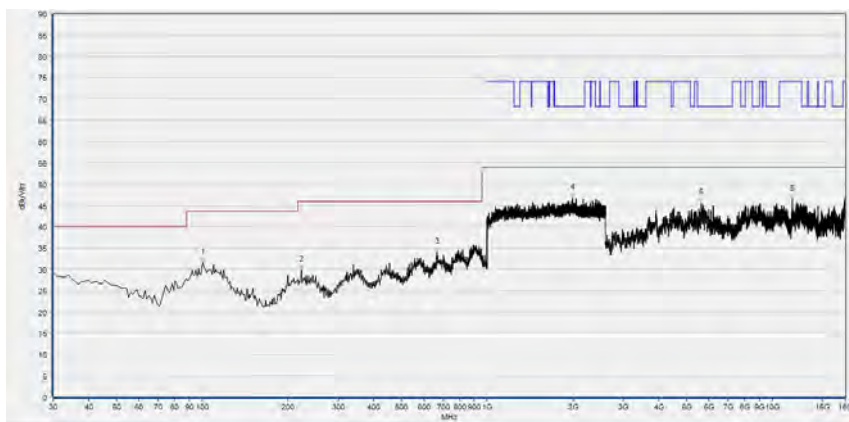
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 62



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
101.780	31.27	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
229.820	29.37	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
556.710	33.15	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1953.600	46.11	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5753.920	45.68	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12739.360	45.84	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

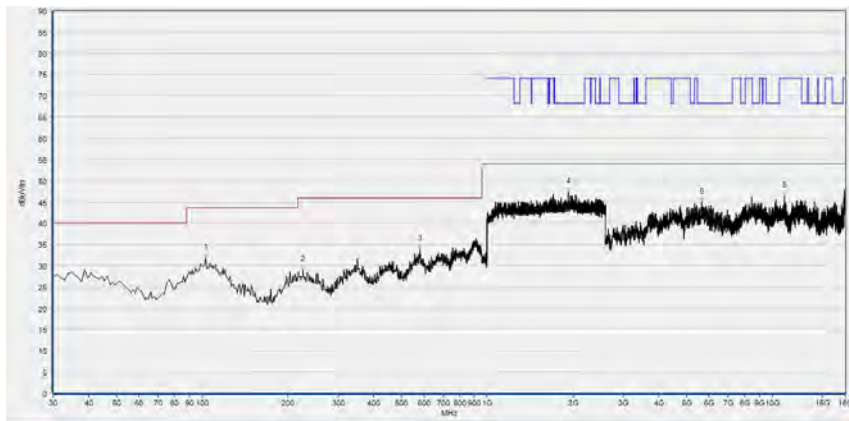
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
100.810	31.59	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
223.030	29.88	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
665.350	34.01	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1989.333	46.77	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5633.800	45.59	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
11750.680	46.37	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

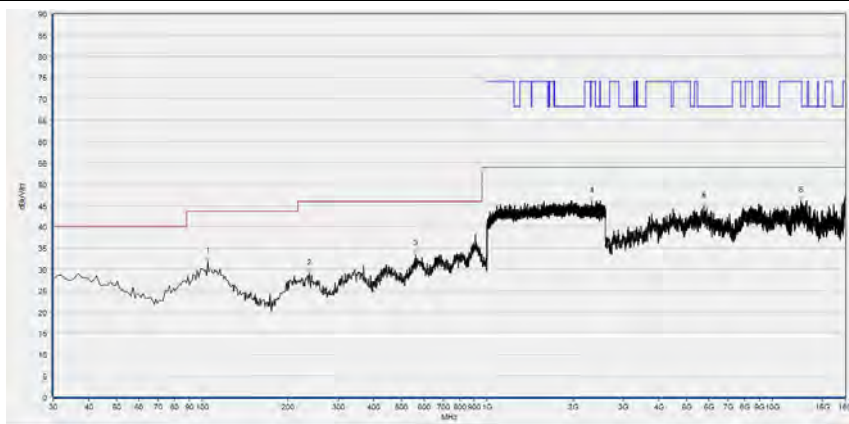
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 102



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
102.750	31.91	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
225.940	28.96	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
579.020	33.84	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1925.867	47.24	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5652.280	44.94	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11045.360	46.40	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

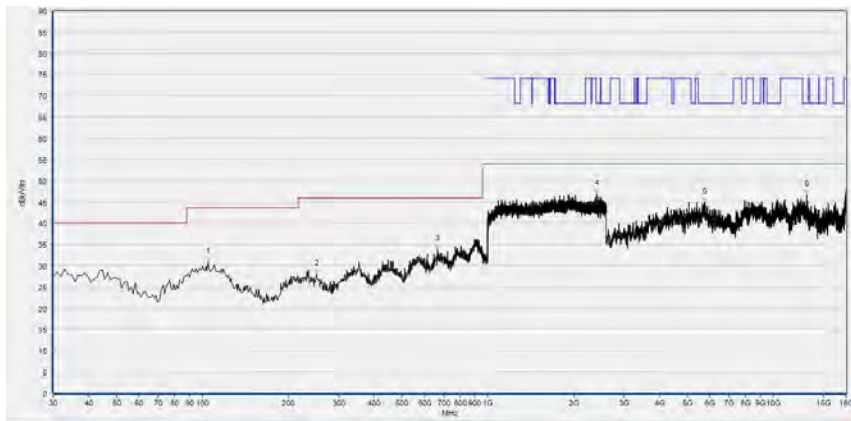
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
104.690	31.77	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
237.580	29.06	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
561.560	33.45	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2328.000	45.97	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5747.760	44.72	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12622.320	46.07	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

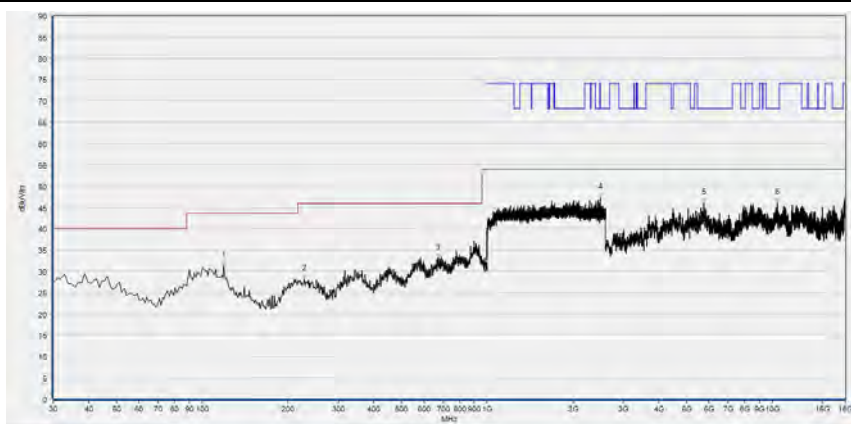
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 126



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
104.690	30.90	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
251.160	27.91	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
667.290	33.90	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2408.533	46.88	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5750.840	44.98	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
13093.560	46.72	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

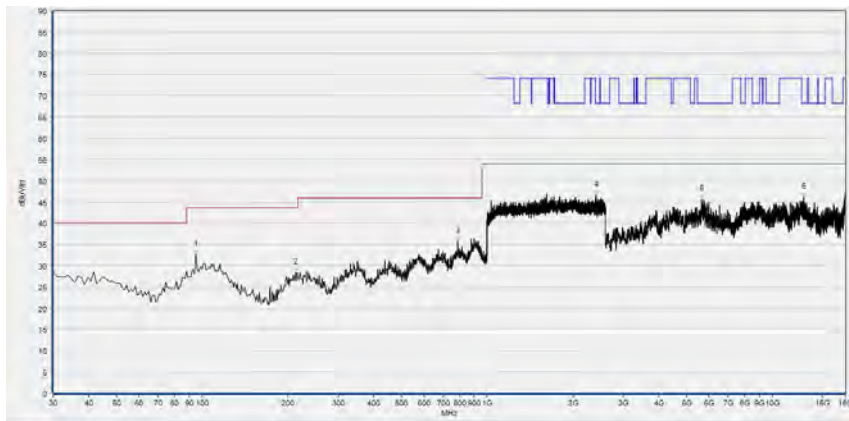
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
119.240	31.20	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
227.880	28.10	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
670.200	32.94	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2494.933	47.30	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5744.680	46.10	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
10386.240	46.03	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

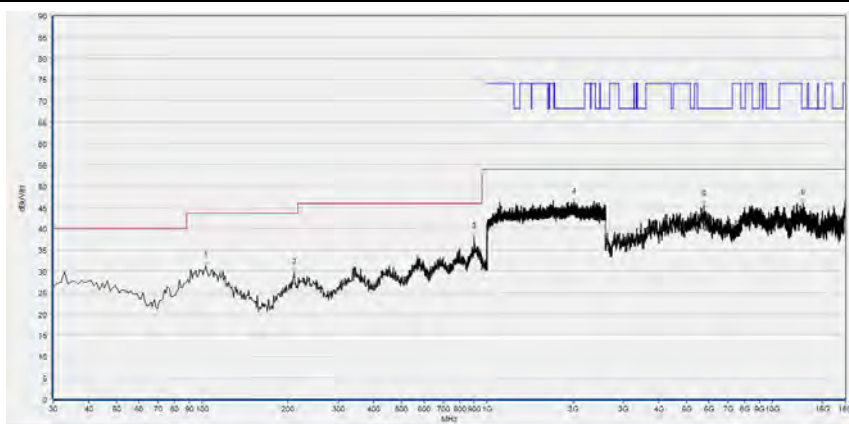
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 142



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
94.990	32.46	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
212.360	28.30	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
787.570	35.72	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2413.333	46.65	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5658.440	45.57	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12884.120	46.06	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

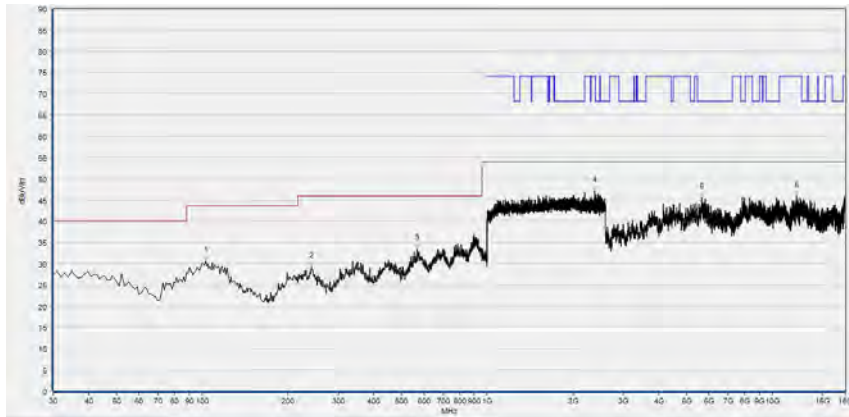
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
102.750	31.18	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
210.420	29.64	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
900.090	38.06	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2011.200	46.31	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5760.080	45.63	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12831.760	45.96	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

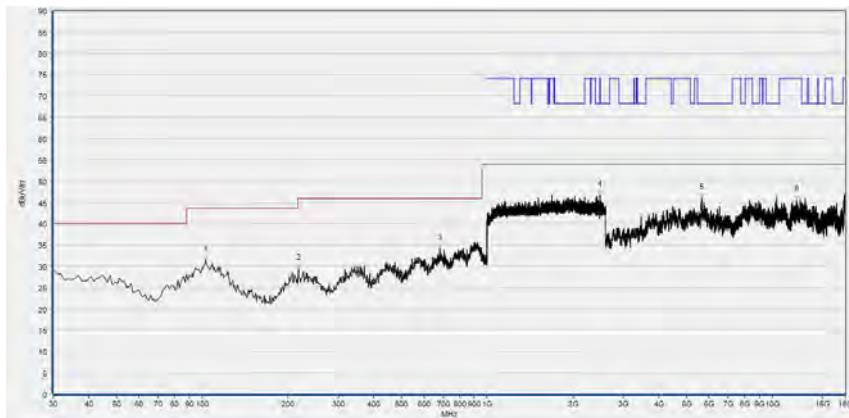
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 151



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
102.750	30.69	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
241.460	29.36	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
566.410	33.54	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2380.267	47.05	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5643.040	45.57	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12181.880	45.84	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

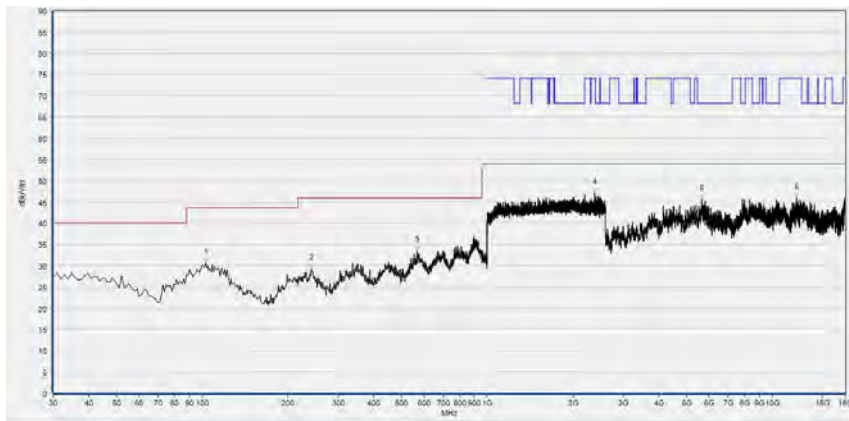
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
102.750	31.26	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
217.210	29.58	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
680.870	34.21	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2485.867	46.69	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5652.280	46.03	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12166.480	45.59	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

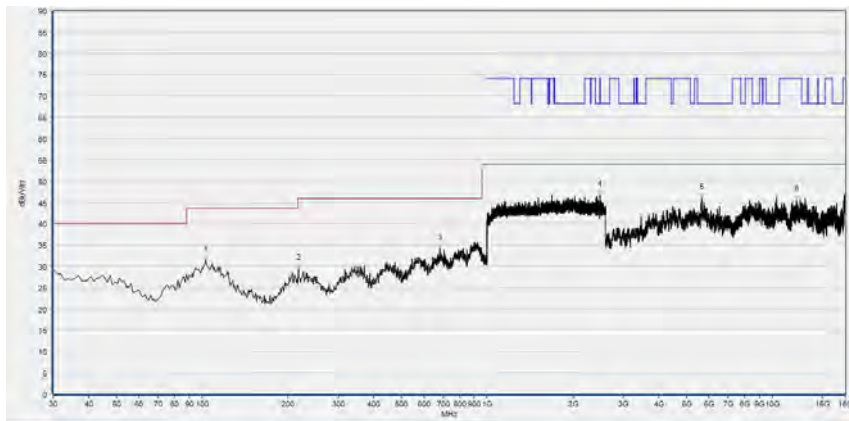
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 159



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
102.750	30.69	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
241.460	29.36	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
566.410	33.54	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2380.267	47.05	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5643.040	45.57	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12181.880	45.84	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

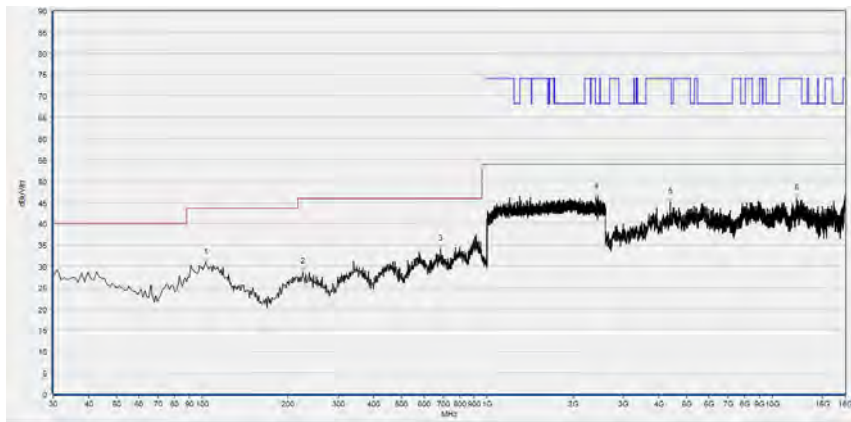


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
102.750	31.26	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
217.210	29.58	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
680.870	34.21	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2485.867	46.69	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5652.280	46.03	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12166.480	45.59	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

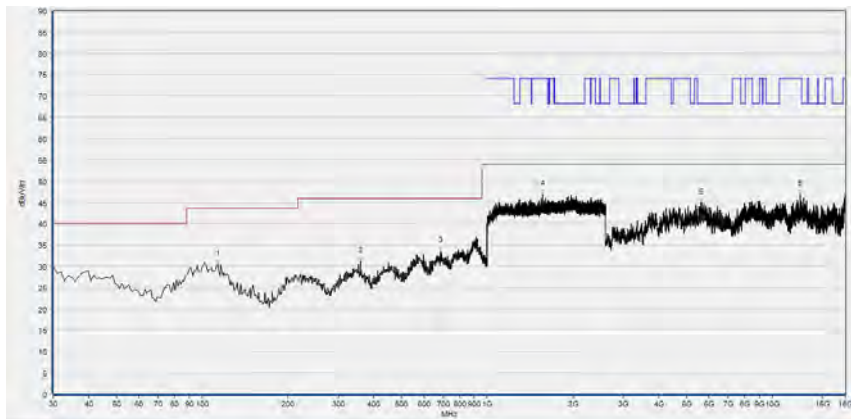
802.11ac (VHT80) Mode

Plot for Channel 42



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
102.750	30.86	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
224.970	28.70	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
684.750	33.99	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2405.333	46.17	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4386.400	45.08	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12148.000	45.93	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

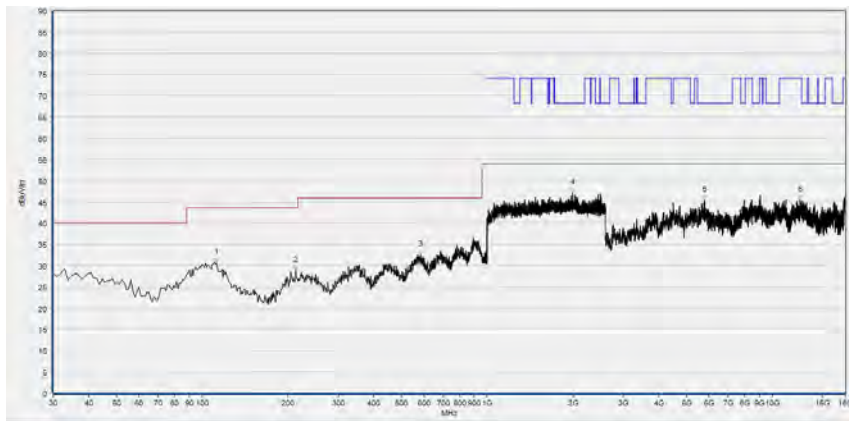
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
113.420	30.48	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
358.830	31.22	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
686.690	33.58	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1564.800	46.92	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5624.560	44.84	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12523.760	46.98	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

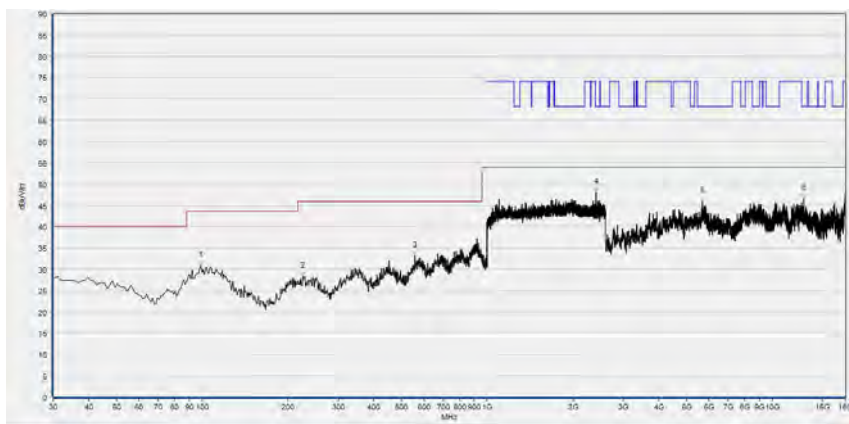
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 58



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
112.450	30.64	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
213.330	28.88	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
583.870	32.54	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1994.667	47.05	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5775.480	45.36	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12492.960	45.44	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

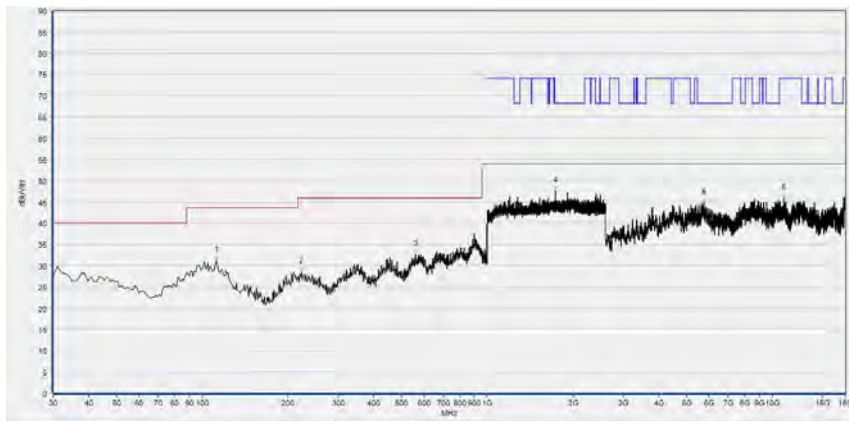
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
98.870	30.84	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
224.970	28.36	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
556.710	33.12	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2410.667	48.07	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5673.840	45.98	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12868.720	46.54	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

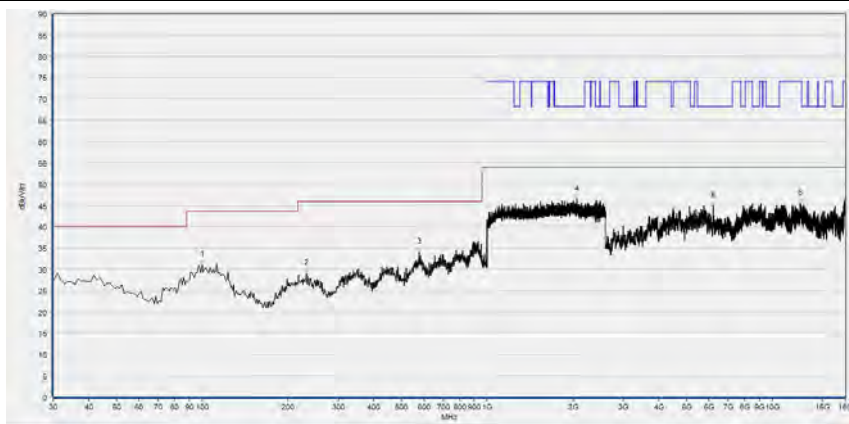
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 106



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
112.450	31.19	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
223.030	28.47	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
560.590	32.67	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1729.600	47.60	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5741.600	44.68	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10983.760	45.88	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

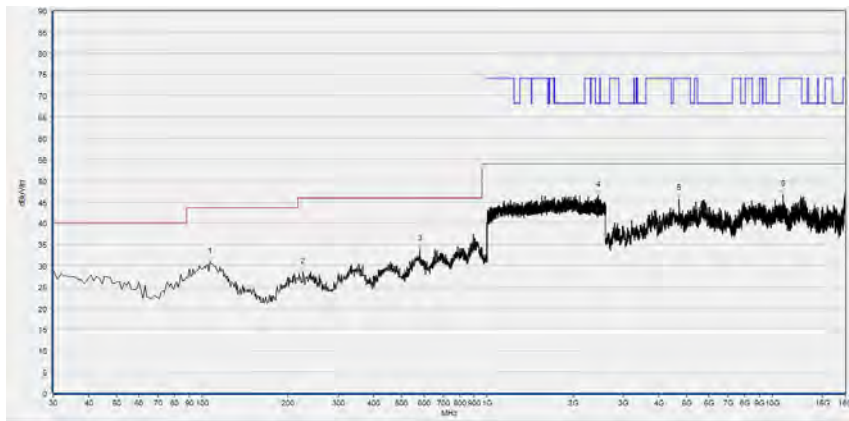
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
99.840	31.08	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
231.760	28.94	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
577.080	33.98	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2056.533	46.35	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
6197.440	44.69	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12520.680	45.48	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

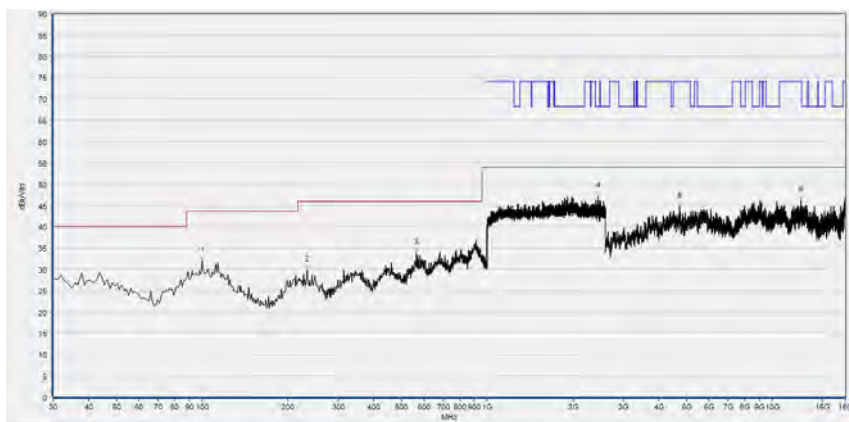
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 122



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
106.630	30.87	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
225.940	28.46	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
579.990	33.88	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2454.933	46.55	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4712.880	45.83	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10900.600	46.68	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

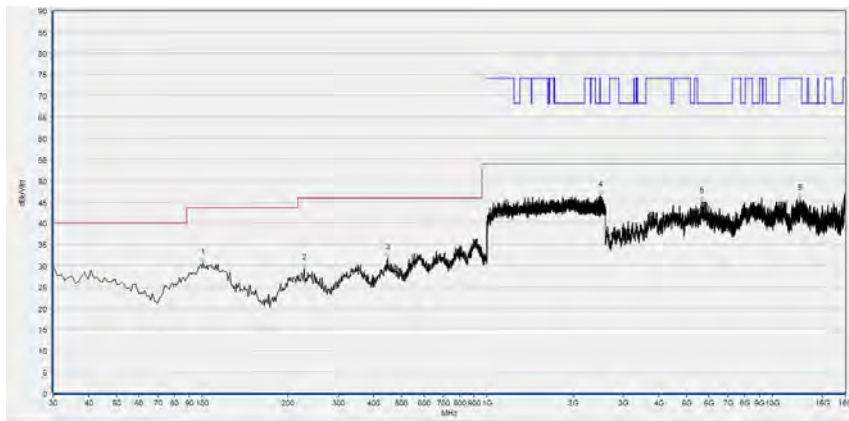
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
99.840	32.00	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
233.700	29.82	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
563.500	33.93	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2455.467	47.15	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4715.960	44.82	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12616.160	46.23	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

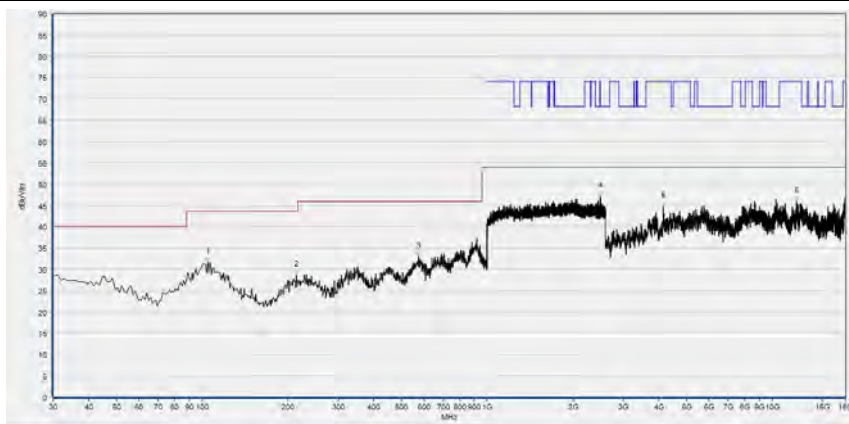
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 138



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
100.810	30.68	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
227.880	29.27	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
447.100	31.84	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2493.333	46.57	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5649.200	45.04	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12539.160	45.80	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

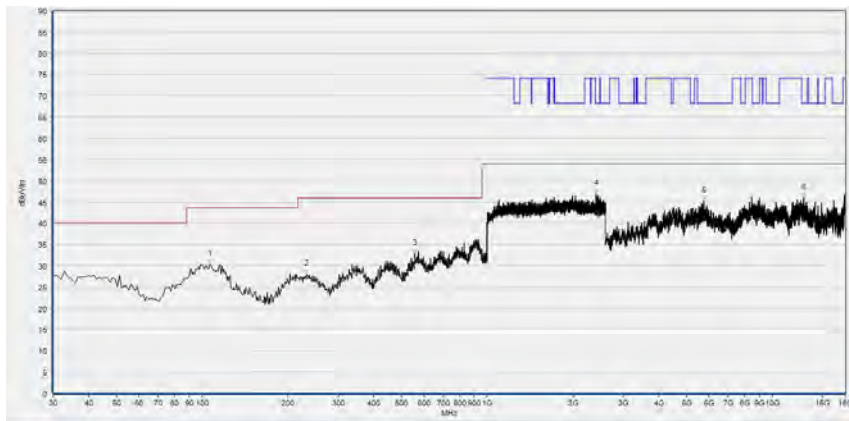
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
104.690	31.68	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
214.300	28.68	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
575.140	32.95	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2486.400	47.05	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4140.000	44.72	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12166.480	45.85	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

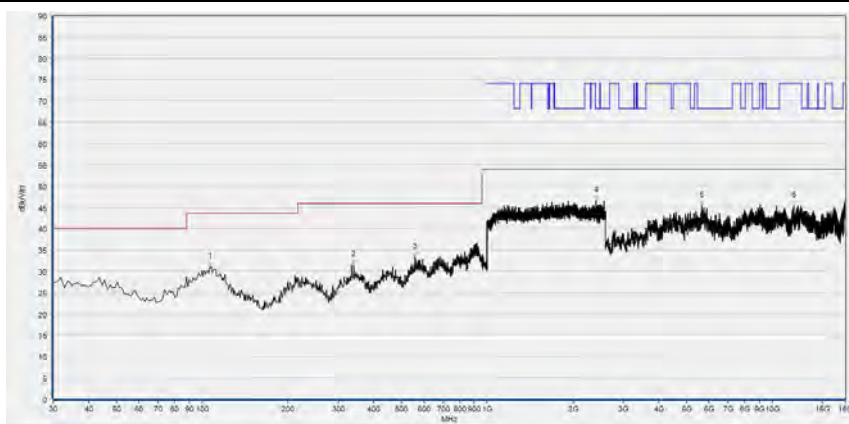
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 155



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
106.630	30.36	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
232.730	27.96	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
557.680	32.80	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2412.800	46.94	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5735.440	45.25	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12887.200	45.91	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
106.630	31.08	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
340.400	31.54	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
558.650	33.29	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2411.733	46.51	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5643.040	45.39	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
11880.040	45.45	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)



Annex A Test Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for test performed on the EUT as specified in CISPR 16-1-2:

Test Items	Uncertainty
Restricted Frequency Bands	±5%
Radiated Emission	±2.95dB
Conducted Emission	±2.44dB

This uncertainty represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



Annex B Testing Laboratory Information

1. Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

3. Facilities and Accreditations

All measurement facilities used to collect the measurement data are located at FL.3, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.10-2013 and CISPR Publication 22; the FCC designation number is CN1192, the test firm registration number is 226174.



4. Test Equipments Utilized

4.1 Conducted Emission Test Equipments

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Receiver	MY56400093	N9038A	KEYSIGHT	2023.02.09	2024.02.08
LISN	8127449	NSLK 8127	Schwarzbeck	2023.02.21	2024.02.20
Pulse Limiter (10dB)	VTSD 9561 F-B #206	VTSD 9561-F	Schwarzbeck	2022.06.27	2024.06.26
RF Coaxial Cable (DC-100MHz)	BNC	MRE04	Qualwave	2022.07.08	2023.07.07

4.2 List of Software Used

Description	Manufacturer	Software Version
Morlab EMCR V1.2	Morlab	V1.0
TS+ -[JS32-CE]	Tonscend	V2.5.0.0

**4.3 Radiated Test Equipments**

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Receiver	MY54130016	N9038A	Agilent	2023.06.21	2024.06.20
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2022.05.25	2025.05.24
Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2022.02.11	2025.02.10
Test Antenna – Horn	01774	BBHA 9120D	Schwarzbeck	2022.07.13	2025.07.12
Test Antenna – Horn	BBHA9170 #773	BBHA9170	Schwarzbeck	2022.07.14	2025.07.13
Preamplifier (10MHz-6GHz)	46732	S10M100L38 02	LUCIX CORP.	2022.07.08	2023.07.07
Preamplifier (2GHz-18GHz)	61171/61172	S020180L32 03	LUCIX CORP.	2022.07.08	2023.07.07
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118-40C-S	Decentest	2022.07.23	2023.07.22
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2022.07.08	2023.07.07
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2022.07.08	2023.07.07
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2022.07.08	2023.07.07
RF Coaxial Cable (DC-40GHz)	22290045	QA360-40-K K-0.5	Qualwave	2022.07.08	2023.07.07
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-K KF-2	Qualwave	2022.07.08	2023.07.07
RF Coaxial Cable (DC-18GHz)	22120181	QA500-18-N N-5	Qualwave	2022.07.08	2023.07.07
Notch Filter	N/A	WRCG-2400-2483.5-60SS	Wainwright	2022.07.08	2023.07.07
Anechoic Chamber	N/A	9m*6m*6m	CRT	2022.05.10	2025.05.09

END OF REPORT