



TEST REPORT

APPLICANT : Linkplay Technology Inc.
PRODUCT NAME : WiiM Wake-up Light
MODEL NAME : WWL001
BRAND NAME : WiiM
FCC ID : 2BABF-WWL001
STANDARD(S) : 47 CFR Part 15 Subpart E
RECEIPT DATE : 2022-12-08
TEST DATE : 2022-12-27 to 2022-12-30
ISSUE DATE : 2023-02-22

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Change History		
Version	Date	Reason for change
1.0	2023-02-22	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:	8F-8036, Qianren Building, No.7, Yingcui Road, Jiangning District, Nanjing, China

1.2. Equipment Under Test (EUT) Description

Product Name:	WiiM Wake-up Light	
Sample No.:	2#, 4#	
Hardware Version:	V04	
Software Version:	Linkplay.4.6.437761	
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:	External rod Antenna	
Antenna Gain:	2.20dBi	
Accessory Information:	AC Adapter	
	Brand Name:	N/A
	Model No.:	AD18W2002
	Serial No.:	N/A
	Rated Output:	12V \approx 1.5A
	Rated Input:	100-240V \sim 50/60Hz, 0.8A
	Manufacturer:	Jiangsu Chenyang Electron Co.,Ltd.



Note 1: The test results of all conducted test items please refer to the module FCC test report (Report No.: SZ21070126W04, FCC ID: 2ANOG-A97), which issued on September 06, 2021 by Shenzhen Morlab Communications Technology Co., Ltd. We only recorded the radiated test result in this report.

Note 2: WiFi hotspot only support U-NII-1 and U-NII-3 band.

Note 3: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

1.3. Modulation Type and Data Rate of EUT

Modulation Technology	Modulation Type	Data Rate (Mbps) ^{Note1}
OFDM (802.11a)	BPSK	6/9
	QPSK	12/18
	16QAM	24/36
	64QAM	48/54
OFDM (802.11n)	BPSK	6.5
	QPSK	13/19.5
	16QAM	26/39
	64QAM	52/58.5/65
OFDM (802.11ac)	BPSK	6.5
	QPSK	13/19.5
	16QAM	26/39
	64QAM	52/58.5/65
	256QAM	78

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
			120	5600
			124	5620
			132	5660
40MHz	140	5700	144	5720
	102	5510	110	5550
	118	5590	126	5630
80MHz	134	5670	142	5710
	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	N/A ^{Note1}	N/A
2	ANSI C63.10	Duty Cycle of the Test Signal	N/A	N/A	N/A ^{Note1}	N/A
3	15.407(a)	Maximum Conducted Output Power	N/A	N/A	N/A ^{Note1}	N/A
4	15.407(a)(e)	Emission Bandwidth	N/A	N/A	N/A ^{Note1}	N/A
5	15.407(a)	Peak Power Spectral Density	N/A	N/A	N/A ^{Note1}	N/A
6	15.407(g)	Frequency Stability	N/A	N/A	N/A ^{Note1}	N/A
7	15.207	Conducted Emission	Dec. 30, 2022	Fan Zehang	PASS	No deviation
8	15.407(b)	Restricted Frequency Bands	Dec. 27, 2022	Su Zhan	PASS	No deviation
9	15.407(b)	Radiated Emission	Dec. 27, 2022	Su Zhan	PASS	No deviation

Note 1: The test results of all conducted test items please refer to the module FCC test report (Report No.: SZ21070126W04, FCC ID: 2ANOG-A97), which issued on September 06, 2021 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.: SZ21070126W05, FCC ID: 2ANOG-A97), which issued on September 06, 2021 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: These RF tests were performed according to the method of measurements prescribed in KDB789033 D02 v02r01.

Note 5: The path loss during the RF test is calibrated to correct the results by the offset setting in the test equipments. The ref offset 12dB contains two parts that cable loss 2dB and Attenuator 10dB.

Note 6: 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 7: 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 50 μ H/50 Ω line impedance stabilization network (LISN).

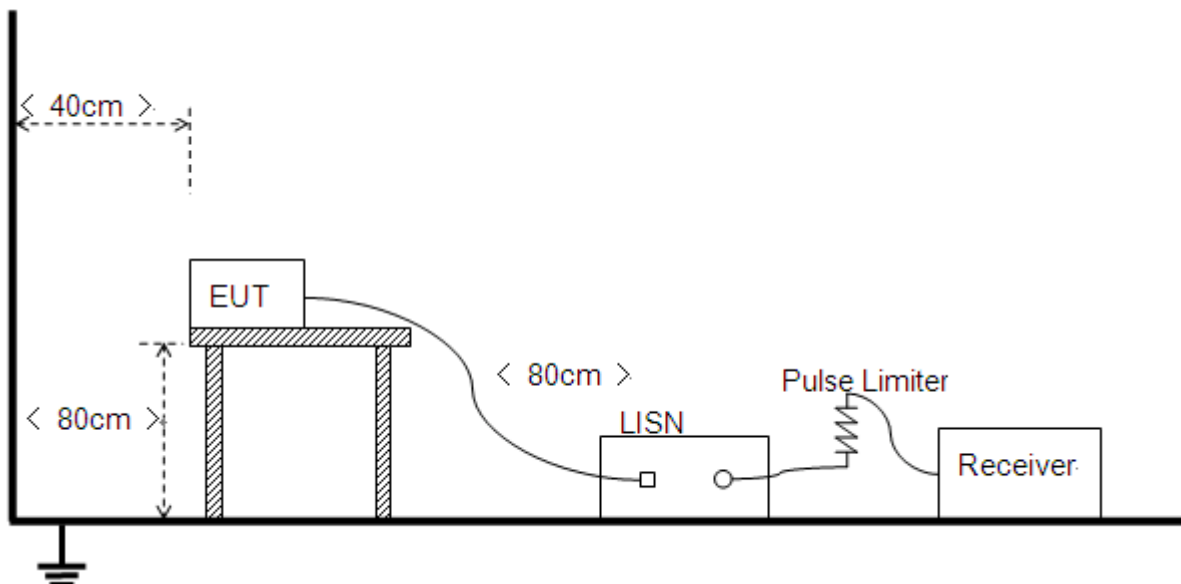
Frequency Range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

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 + PC +WIFI TX

Test Voltage: AC 120V/60Hz

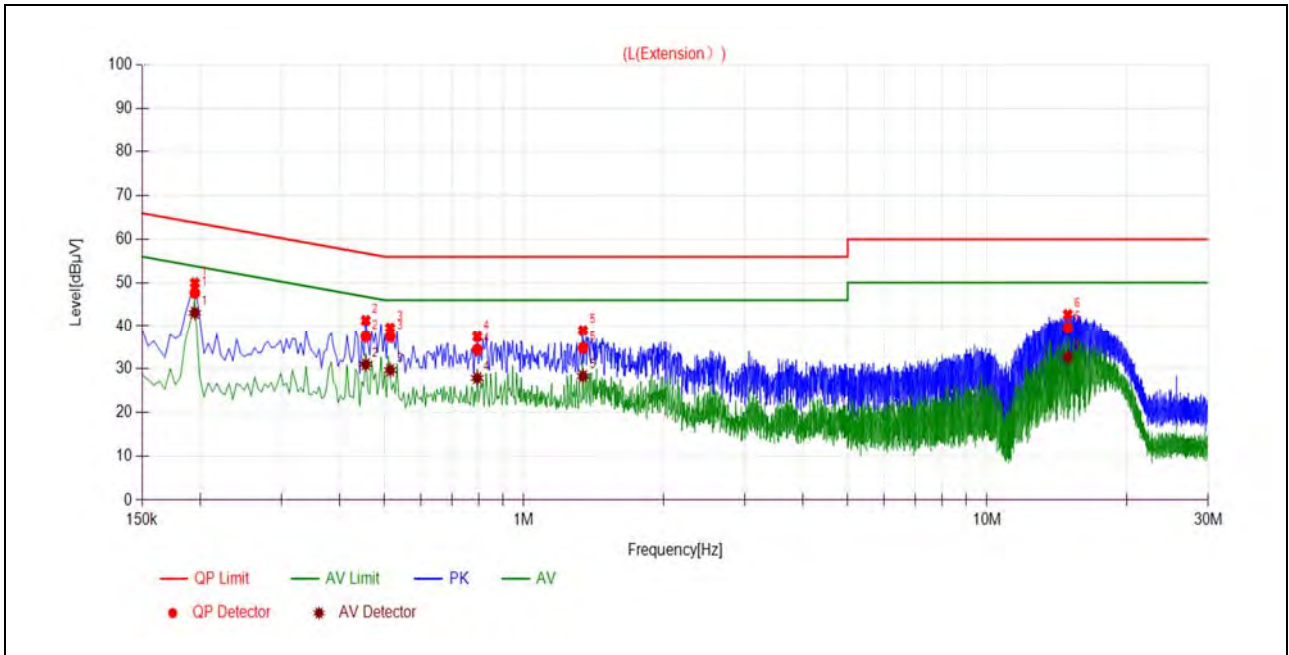
The measurement results are obtained as below:

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

U_R : Receiver Reading

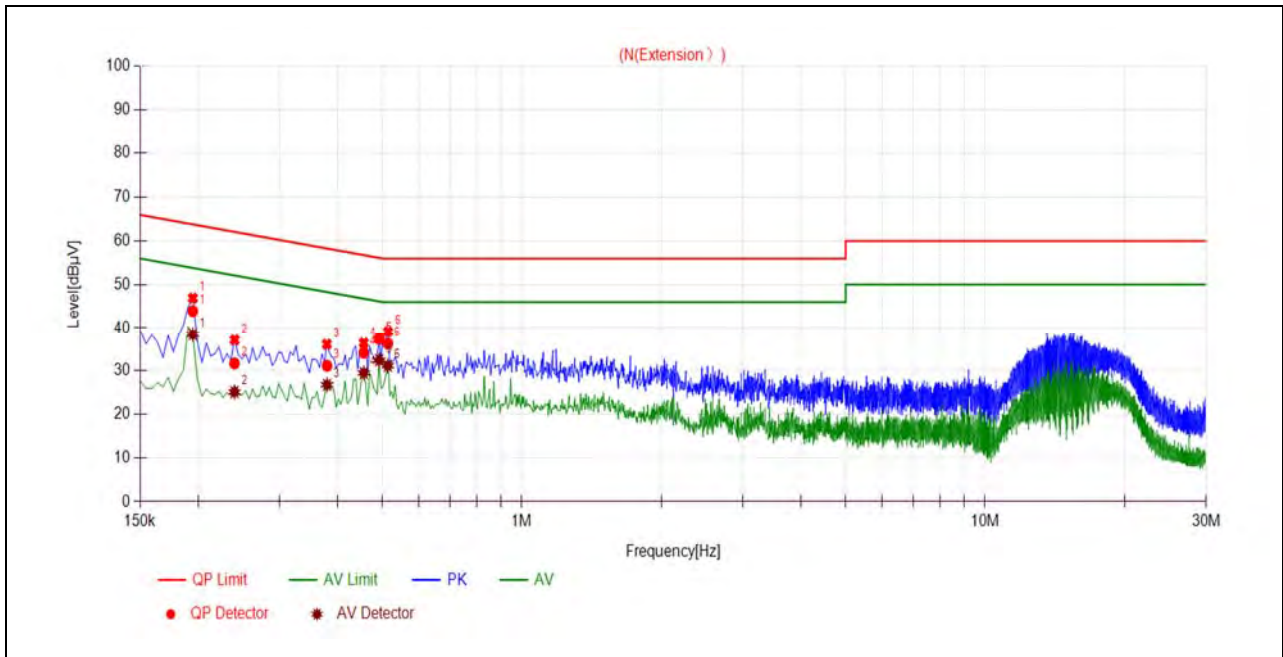
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1949	47.66	43.06	63.83	53.83	Line	PASS
2	0.4560	37.47	31.06	56.77	46.77		PASS
3	0.5149	37.52	29.70	56.00	46.00		PASS
4	0.7933	34.41	27.88	56.00	46.00		PASS
5	1.3425	34.80	28.33	56.00	46.00		PASS
6	14.9359	39.61	32.71	60.00	50.00		PASS



(N Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1949	43.91	38.45	63.82	53.82	Neutral	PASS
2	0.2398	31.70	25.09	62.10	52.10		PASS
3	0.3798	31.16	26.77	58.28	48.28		PASS
4	0.4560	34.17	29.49	56.77	46.77		PASS
5	0.4923	37.42	32.43	56.13	46.13		PASS
6	0.5140	36.26	31.15	56.00	46.00		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

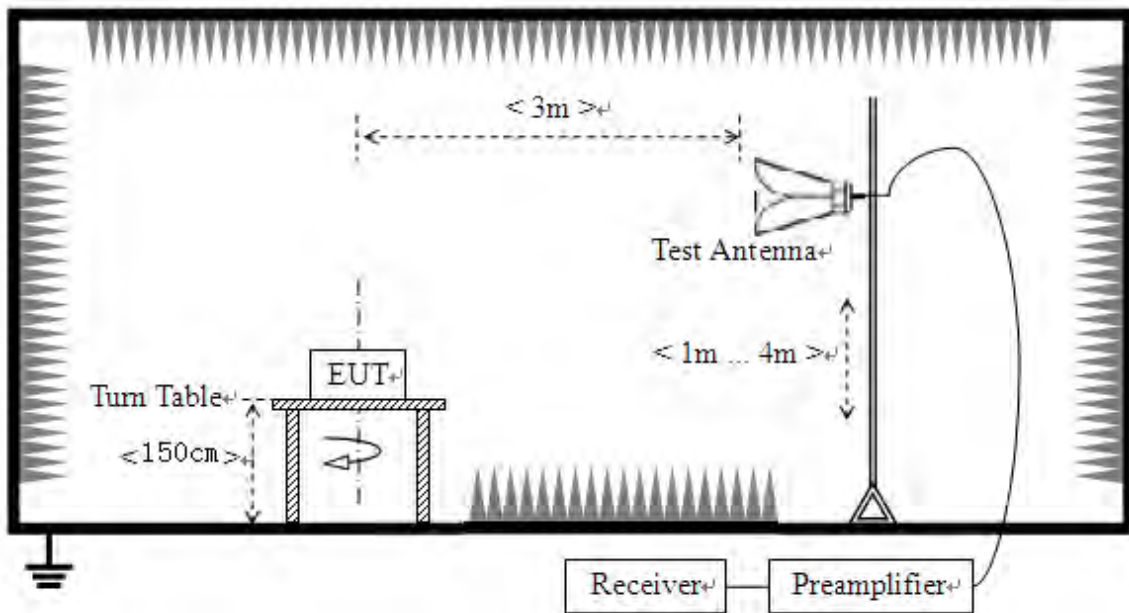
Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209. According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following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

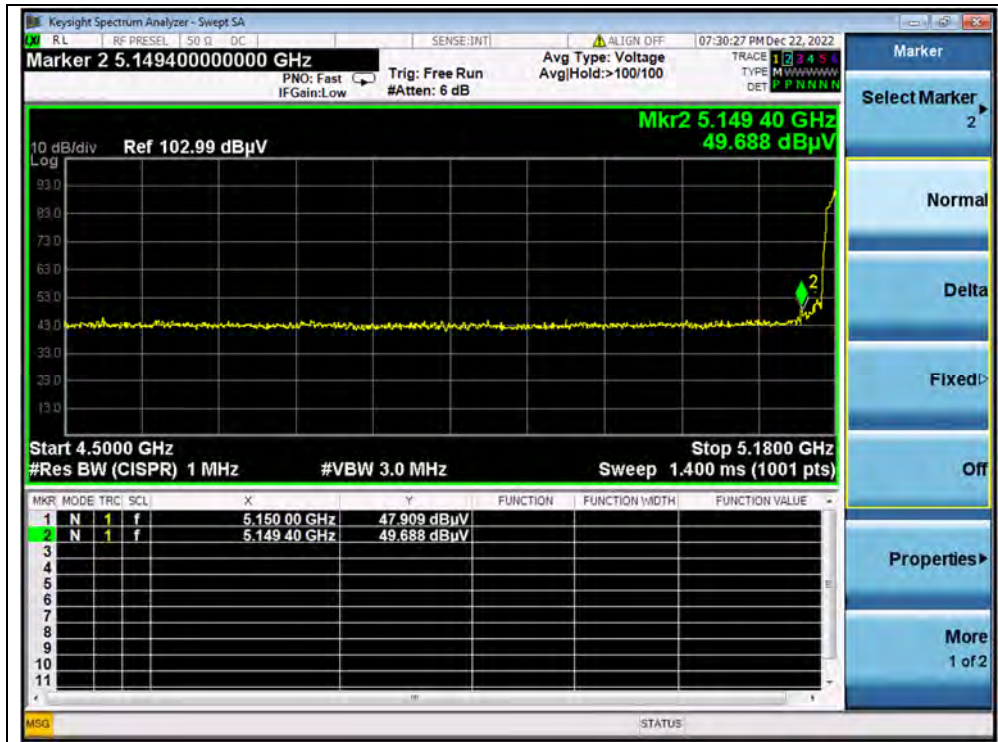
Note 2 All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.

802.11a Mode

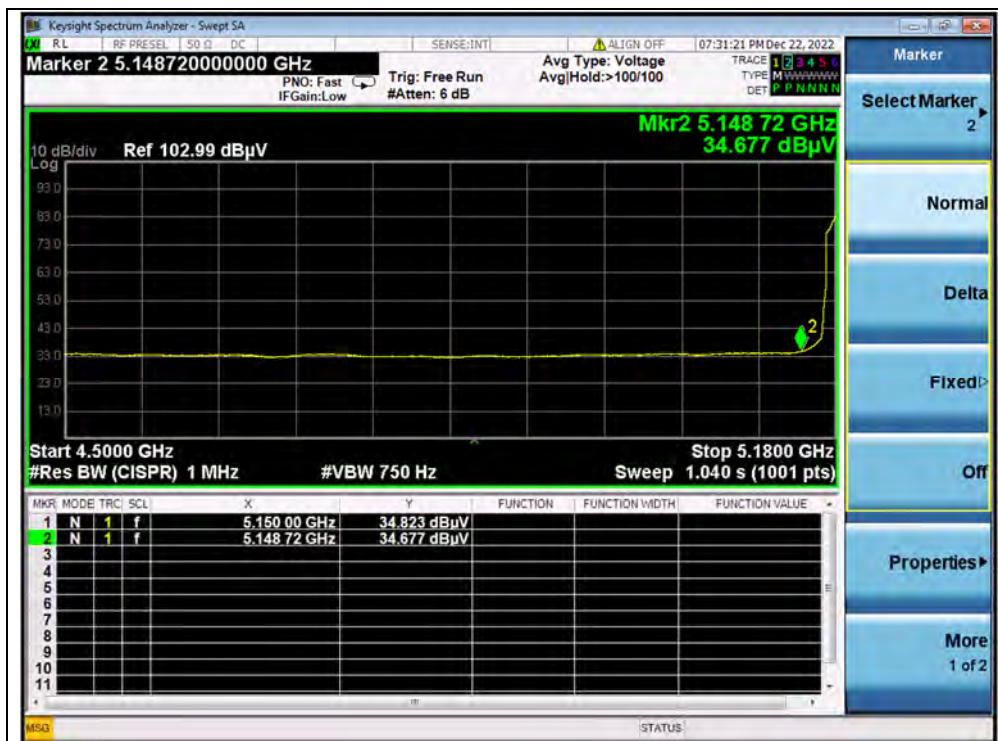
A. Test Verdict:

Channel	Frequency (MHz)	Detector	Receiver Reading	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV	U_R (dB μ V)					
36	5149.40	PK	49.69	-19.54	32.20	62.35	74	PASS
36	5150.00	AV	34.82	-19.54	32.20	47.48	54	PASS
64	5368.68	PK	43.46	-18.80	32.20	56.86	74	PASS
64	5356.64	AV	32.73	-18.80	32.20	46.13	54	PASS
100	5158.08	PK	45.25	-19.20	32.20	58.25	68.23	PASS
100	5113.20	AV	34.08	-19.20	32.20	47.08	54	PASS
144	5743.90	PK	45.14	-19.20	32.20	58.14	68.23	PASS
149	5700.00	PK	43.91	-19.01	32.20	57.10	105.23	PASS
165	5850.00	PK	45.18	-19.01	32.20	58.37	122.23	PASS

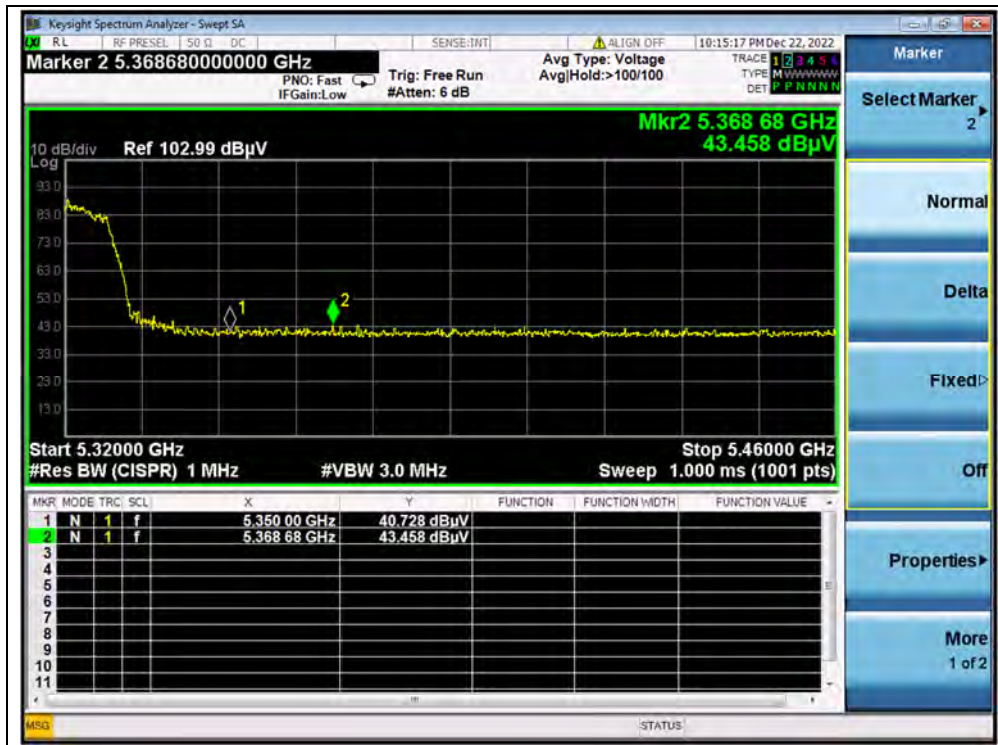
B.Test Plot:



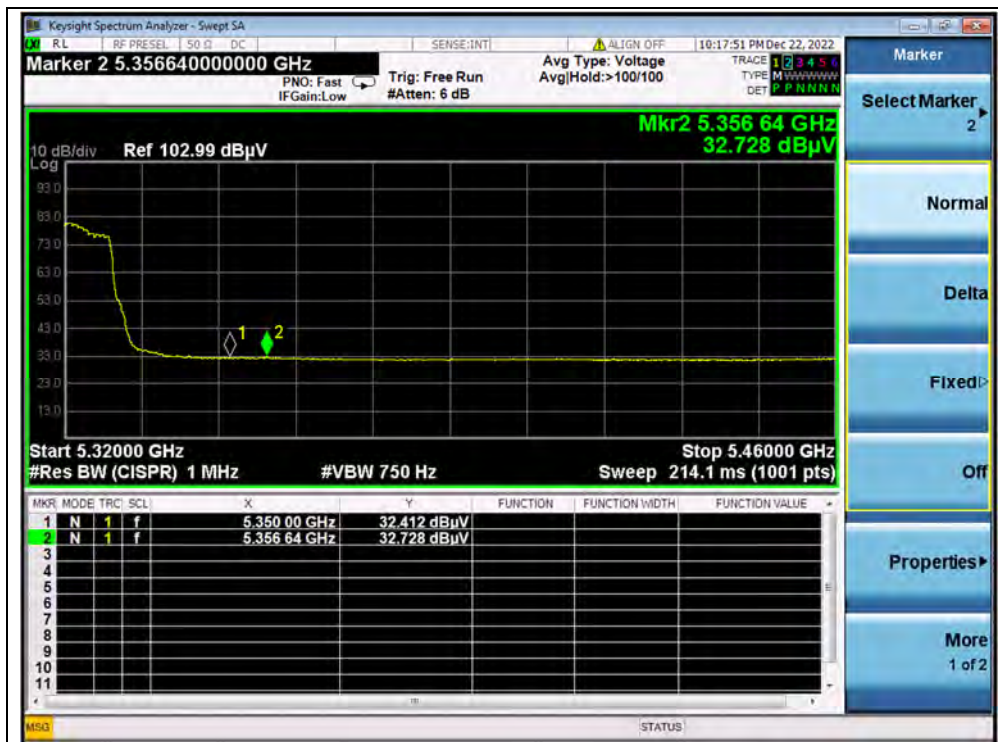
(PEAK, Channel 36, 802.11a)



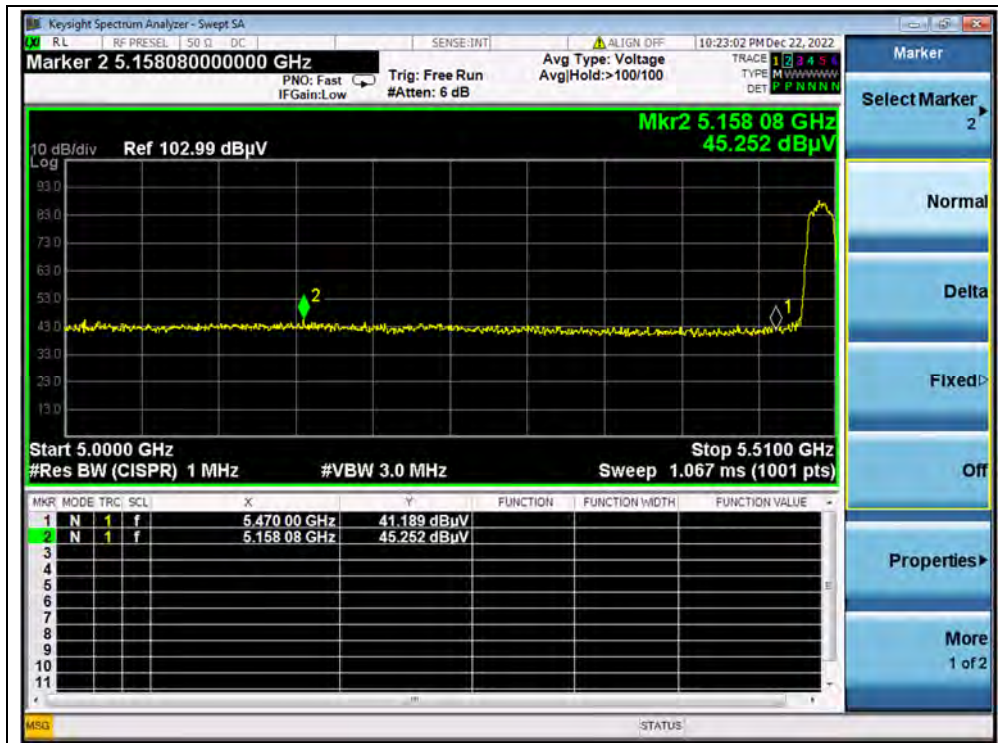
(AVERAGE, Channel 36, 802.11a)



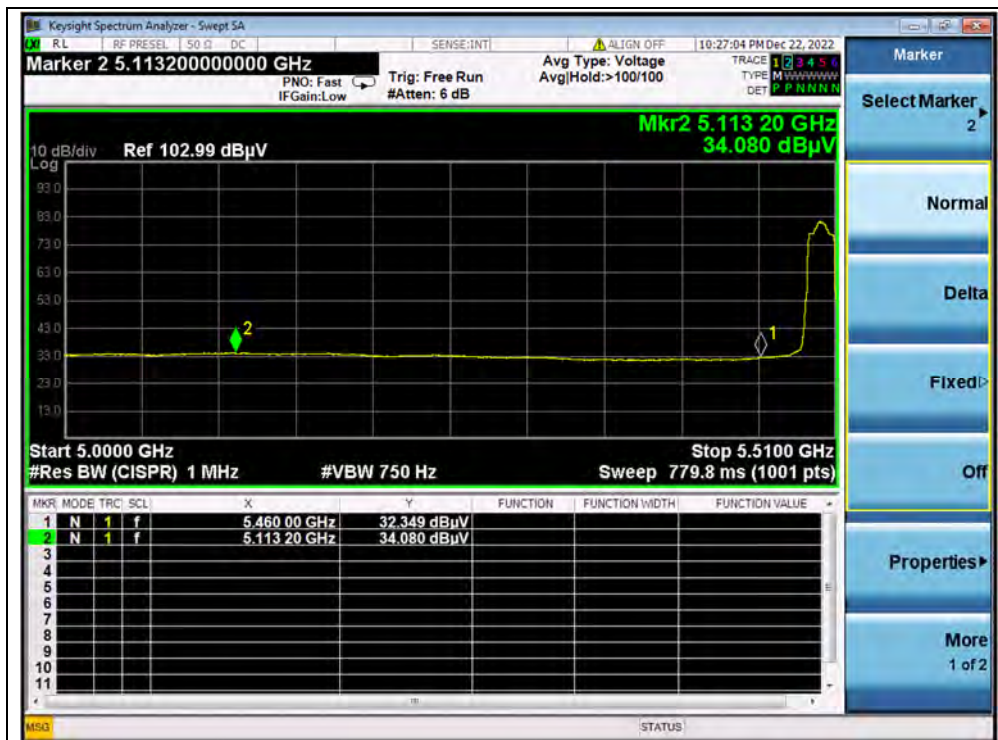
(PEAK, Channel 64, 802.11a)



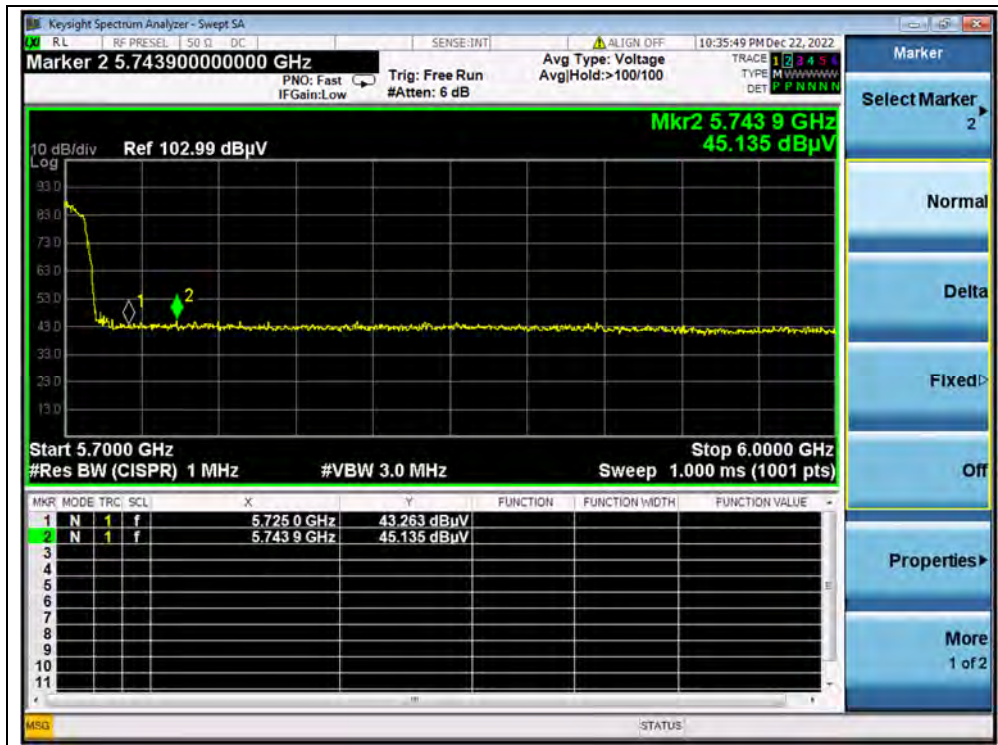
(AVERAGE, Channel 64, 802.11a)



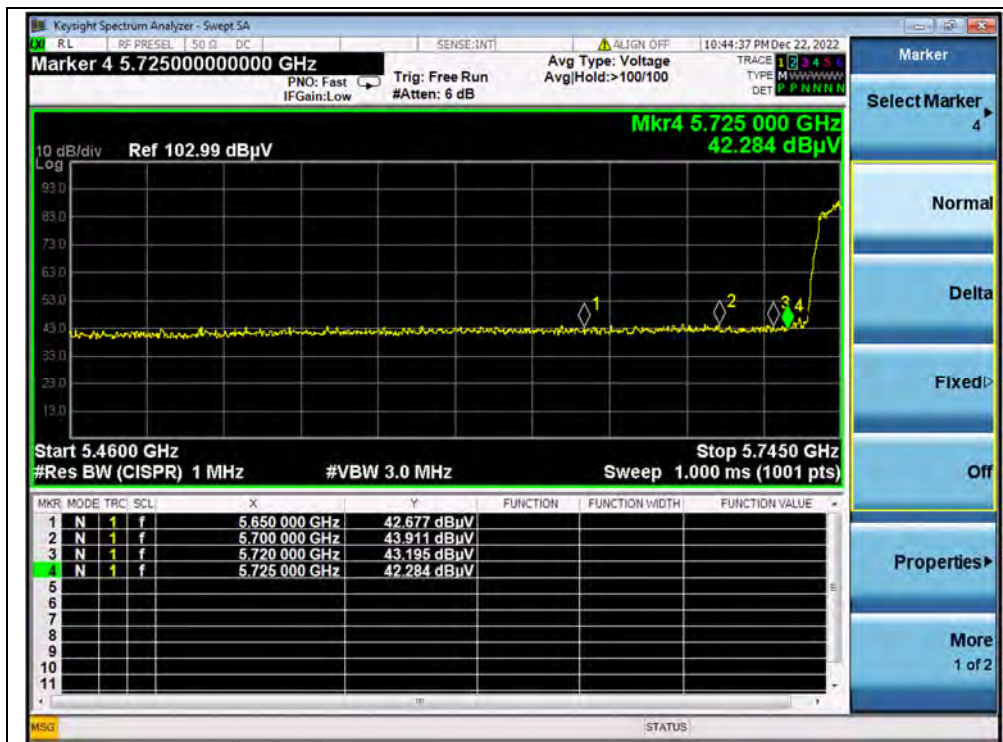
(PEAK, Channel 100, 802.11a)



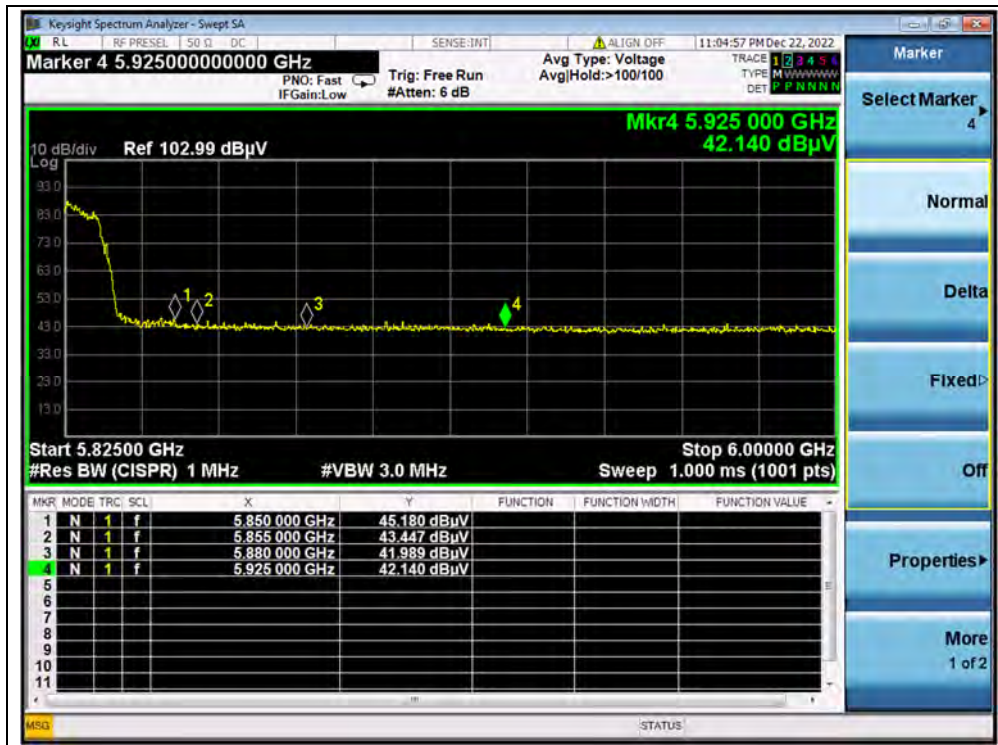
(AVERAGE, Channel 100, 802.11a)



(PEAK, Channel 144, 802.11a)



(PEAK, Channel 149, 802.11a)



(PEAK, Channel 165, 802.11a)

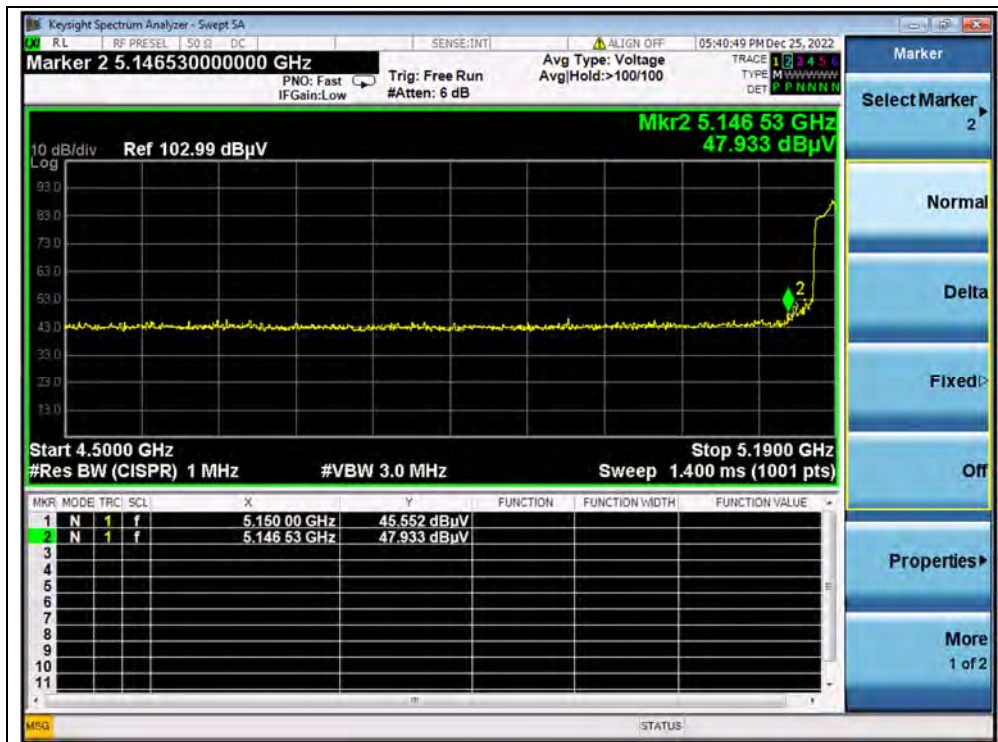


802.11n (HT40) Mode

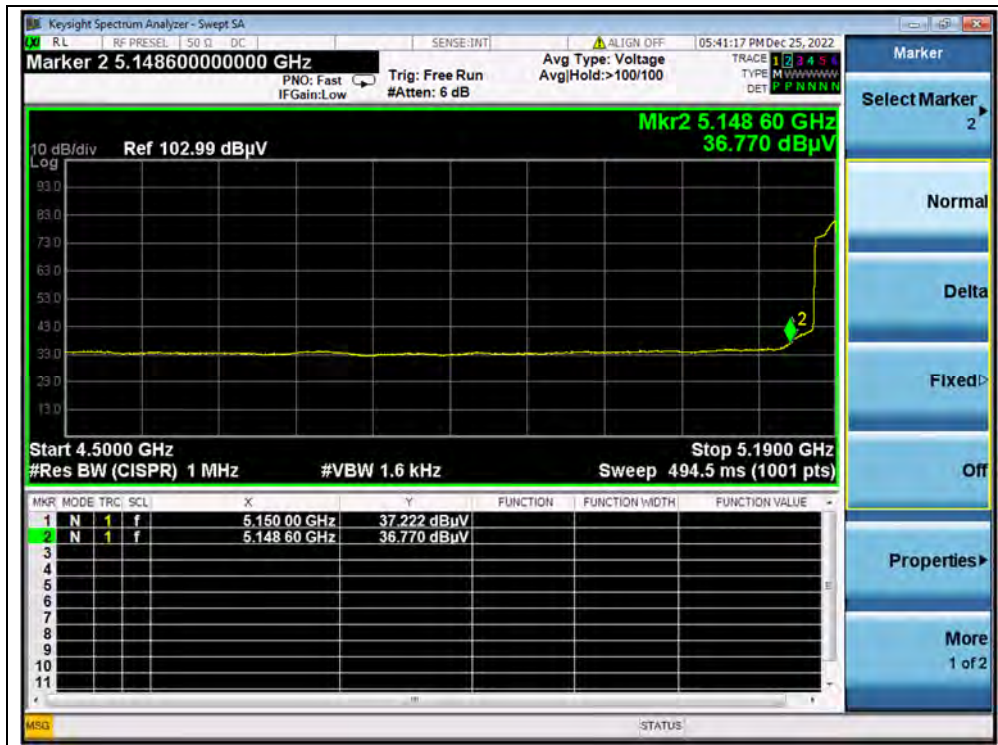
A. Test Verdict:

Channel	Frequency (MHz)	Detector	Receiver Reading U _R (dBμV)	A _T (dB)	A _{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
38	5146.53	PK	47.93	-19.54	32.20	60.59	74	PASS
38	5150.00	AV	37.22	-19.54	32.20	49.88	54	PASS
62	5350.62	PK	47.22	-18.80	32.20	60.62	74	PASS
62	5350.48	AV	35.47	-18.80	32.20	48.87	54	PASS
102	5075.15	PK	46.37	-19.20	32.20	59.37	74	PASS
102	5172.05	AV	34.91	-19.20	32.20	47.91	54	PASS
142	5737.22	PK	44.74	-19.20	32.20	57.74	68.23	PASS
151	5725.00	PK	43.54	-19.01	32.20	56.73	122.23	PASS
159	5855.00	PK	43.89	-19.01	32.20	57.08	110.83	PASS

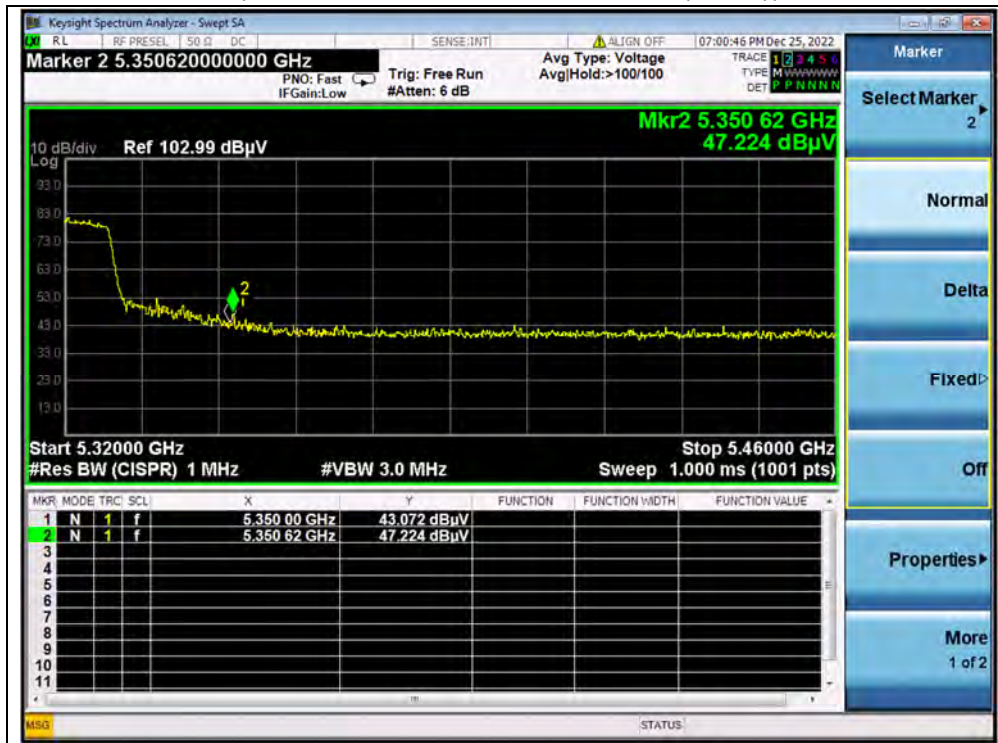
B. Test Plot:



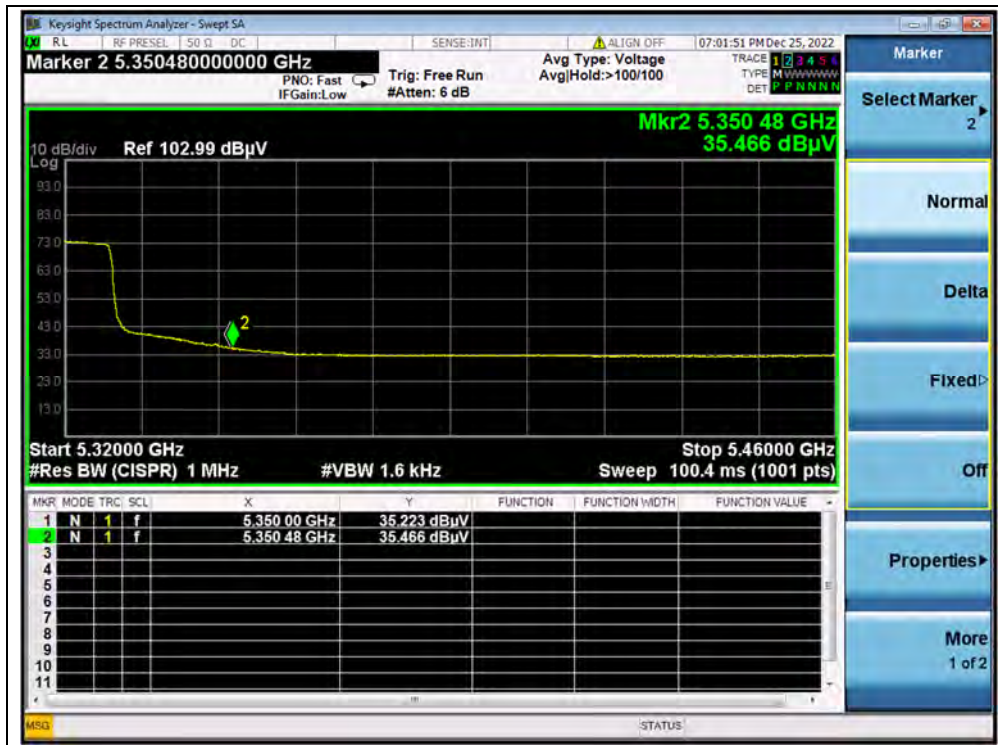
(PEAK, Channel 38, 802.11n (HT40))



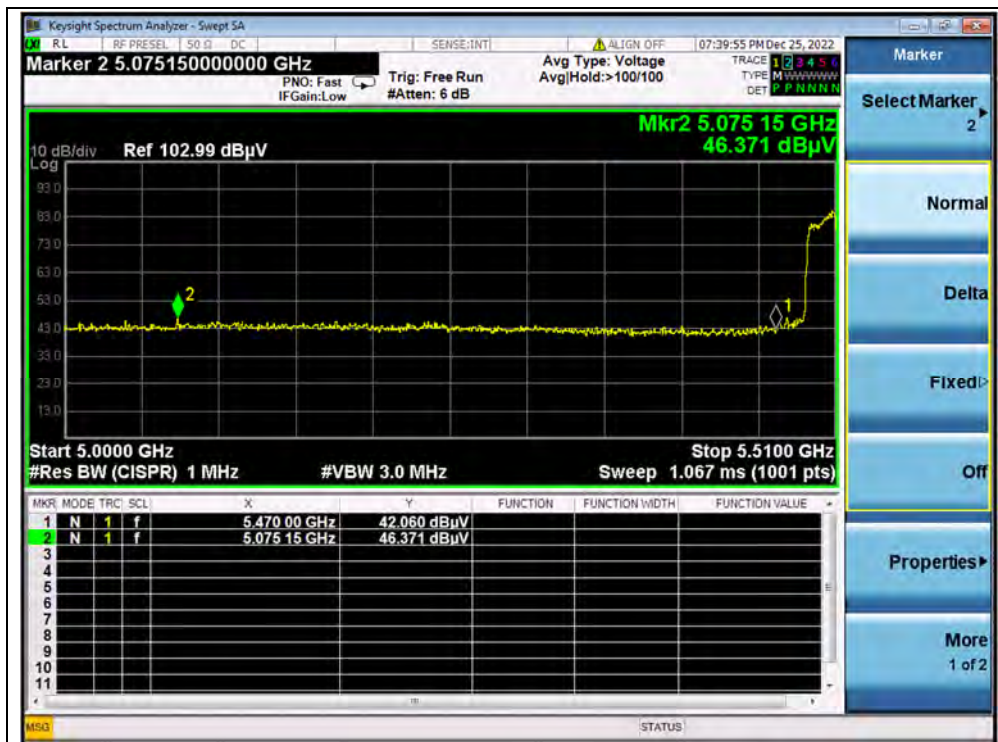
(AVERAGE, Channel 38, 802.11n (HT40))



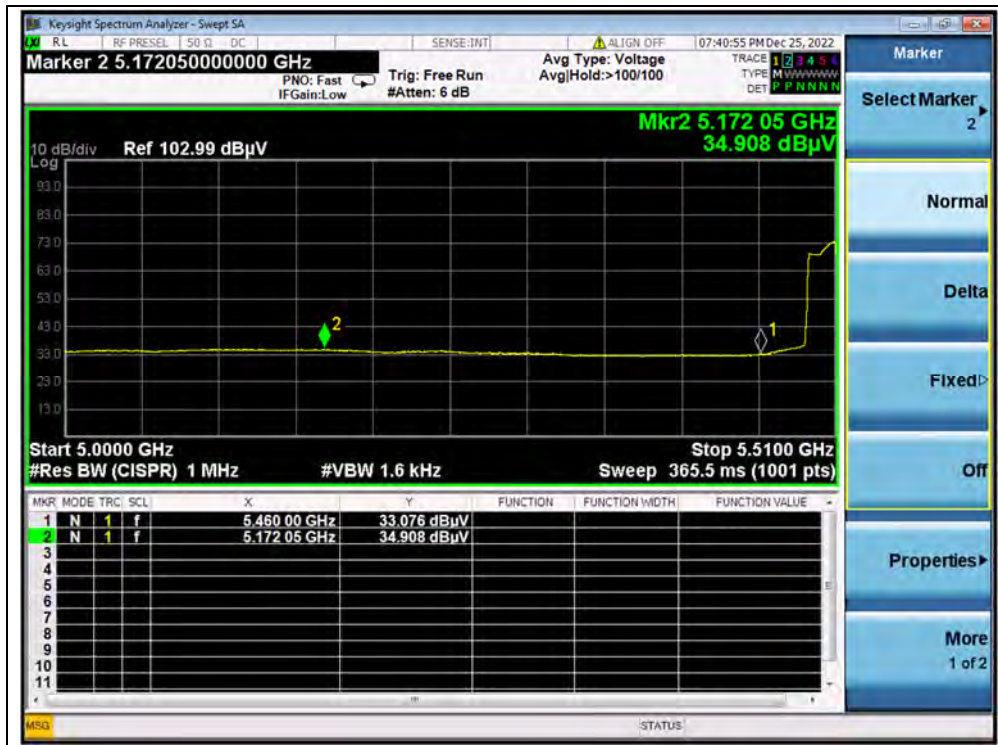
(PEAK, Channel 62, 802.11n (HT40))



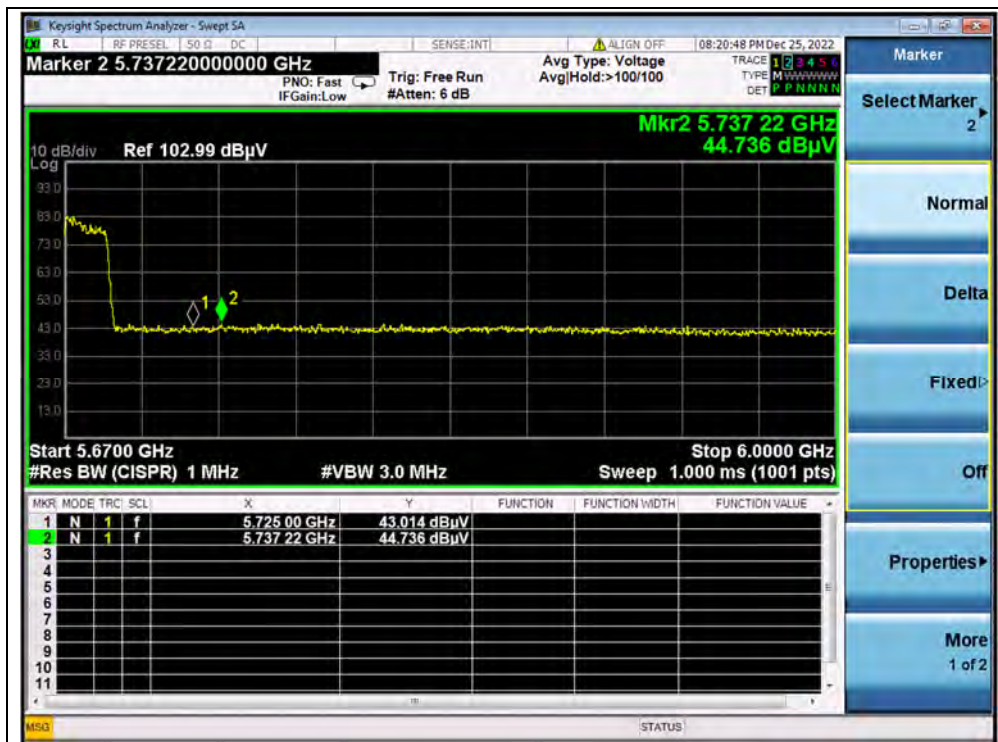
(AVERAGE, Channel 62, 802.11n (HT40))



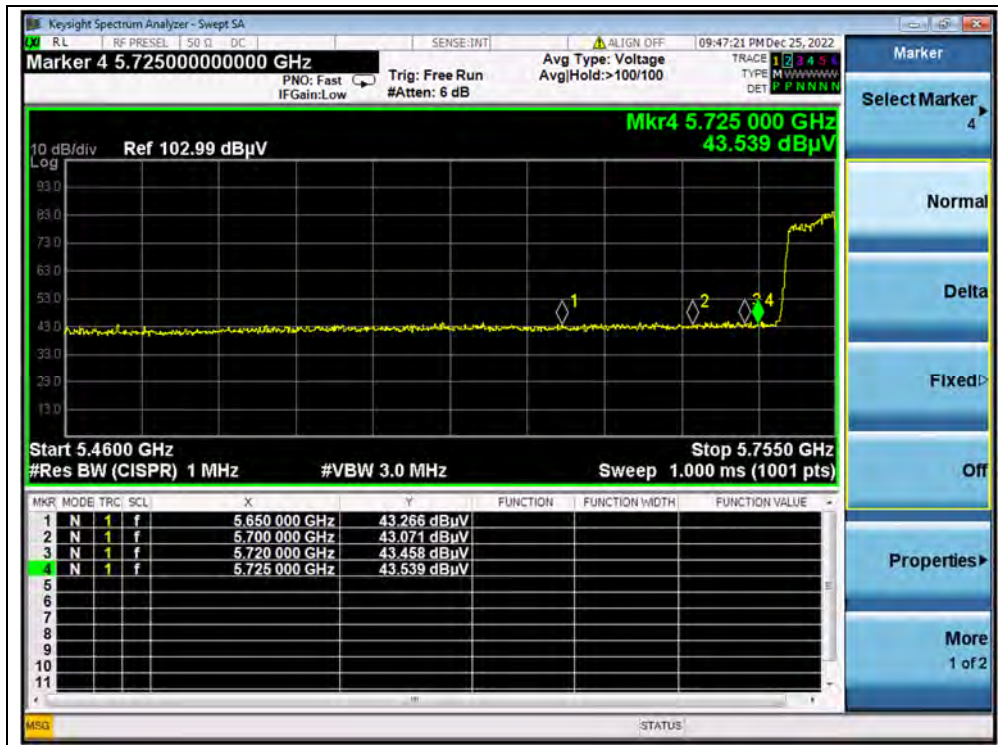
(PEAK, Channel 102, 802.11n (HT40))



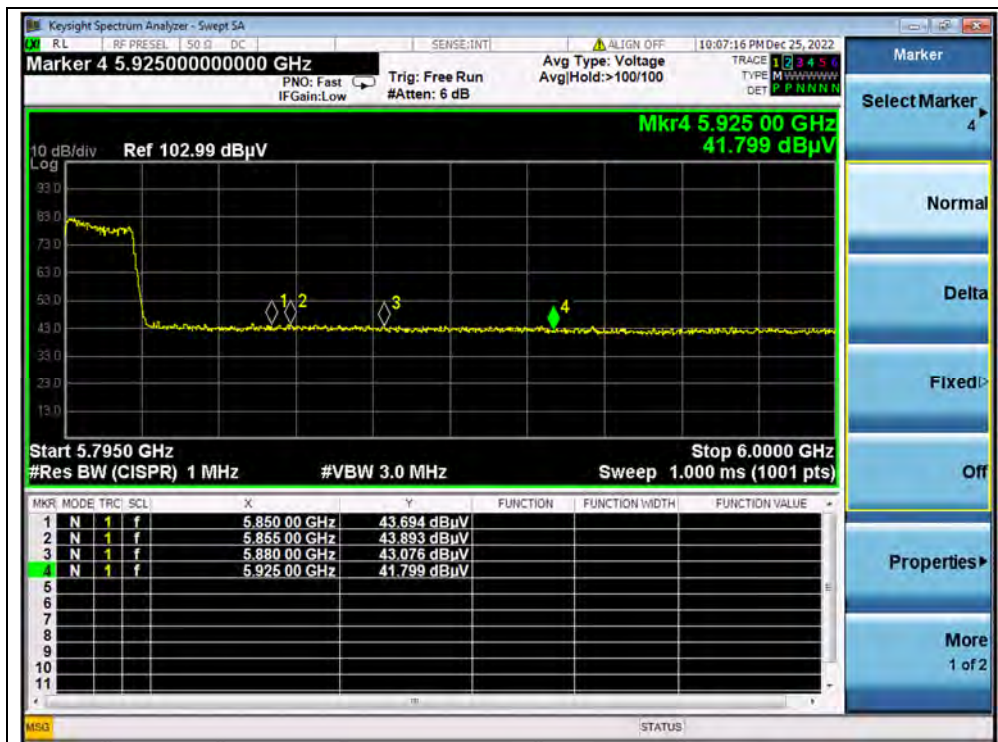
(AVERAGE, Channel 102, 802.11n (HT40))



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



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



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

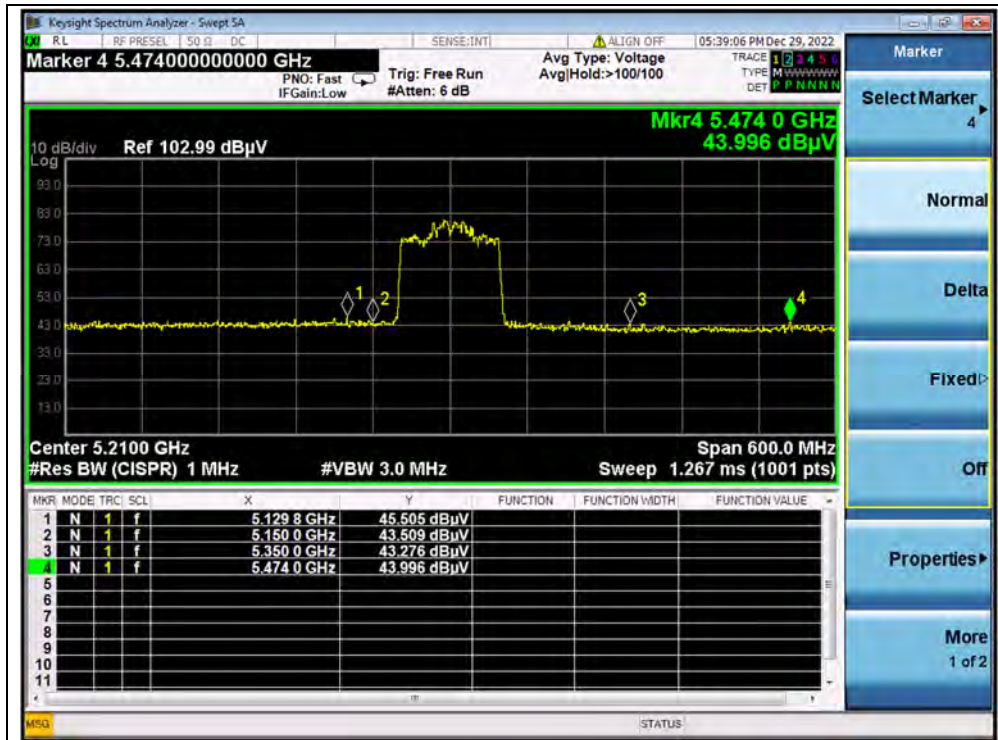


802.11ac (VHT80) Mode

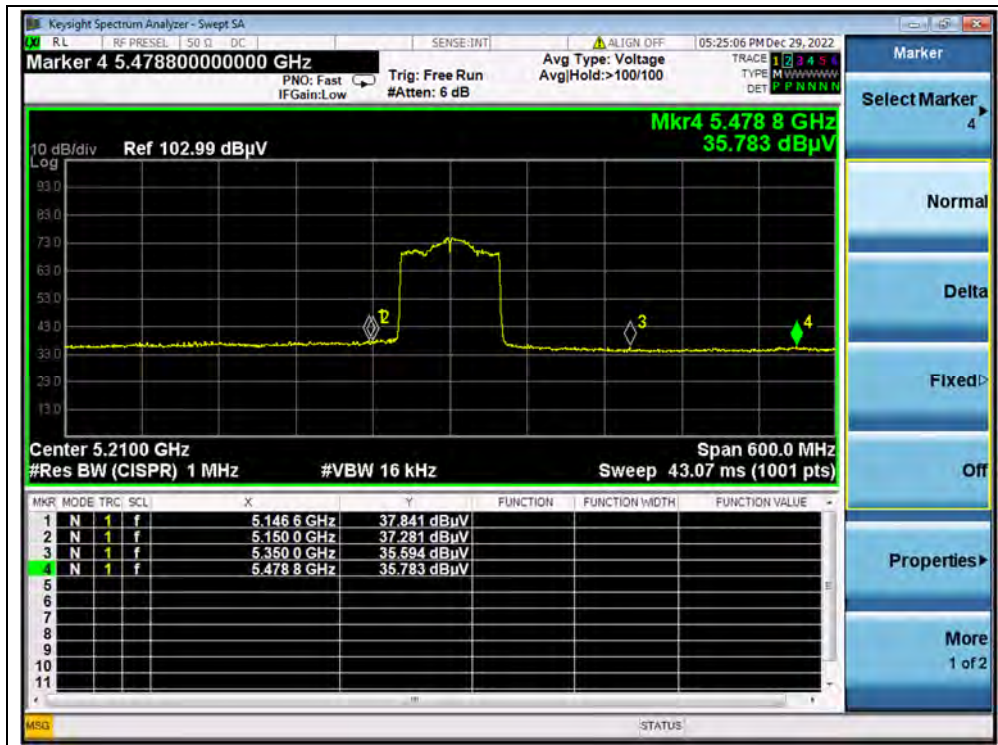
A. Test Verdict:

Channel	Frequency (MHz)	Detector	Receiver Reading U _R (dBμV)	A _T (dB)	A _{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
42	5129.80	PK	45.51	-19.54	32.20	58.17	74	PASS
42	5146.60	AV	37.84	-19.54	32.20	50.50	54	PASS
58	5022.40	PK	46.52	-18.80	32.20	59.92	74	PASS
58	5113.00	AV	37.65	-18.80	32.20	51.05	54	PASS
106	5183.41	PK	45.15	-19.20	32.20	58.15	68.23	PASS
106	5132.00	AV	37.52	-19.20	32.20	50.52	54	PASS
138	5755.81	PK	44.91	-19.20	32.20	57.91	68.23	PASS
155	5725.00	PK	43.94	-19.01	32.20	57.13	122.23	PASS
155	5850.00	PK	43.93	-19.01	32.20	57.12	122.23	PASS

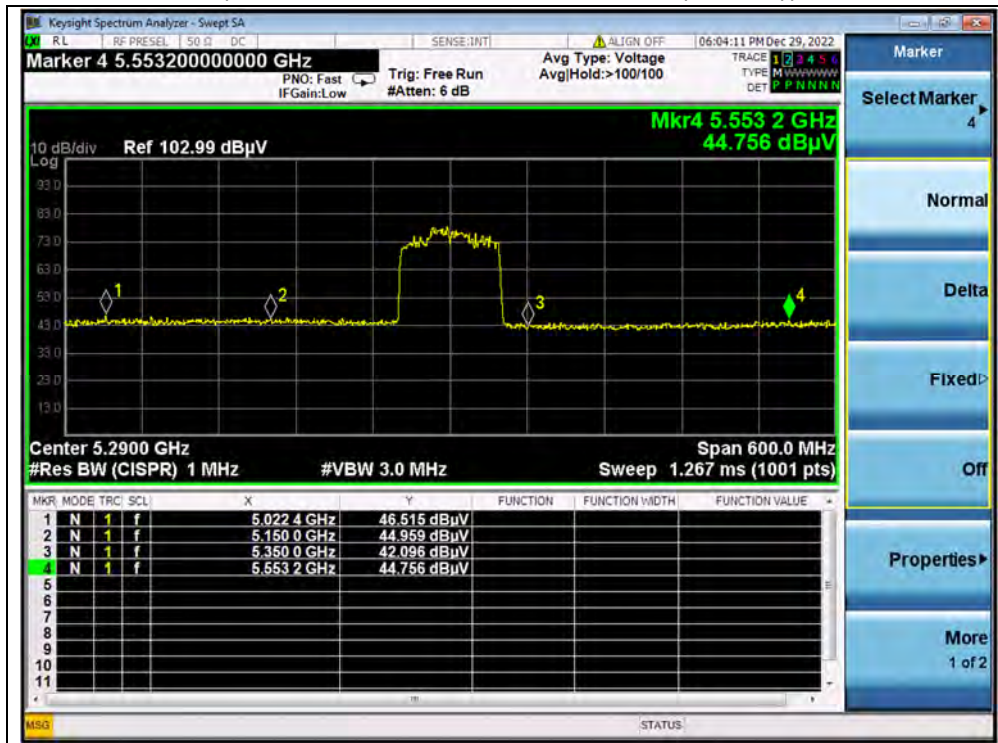
B. Test Plot:



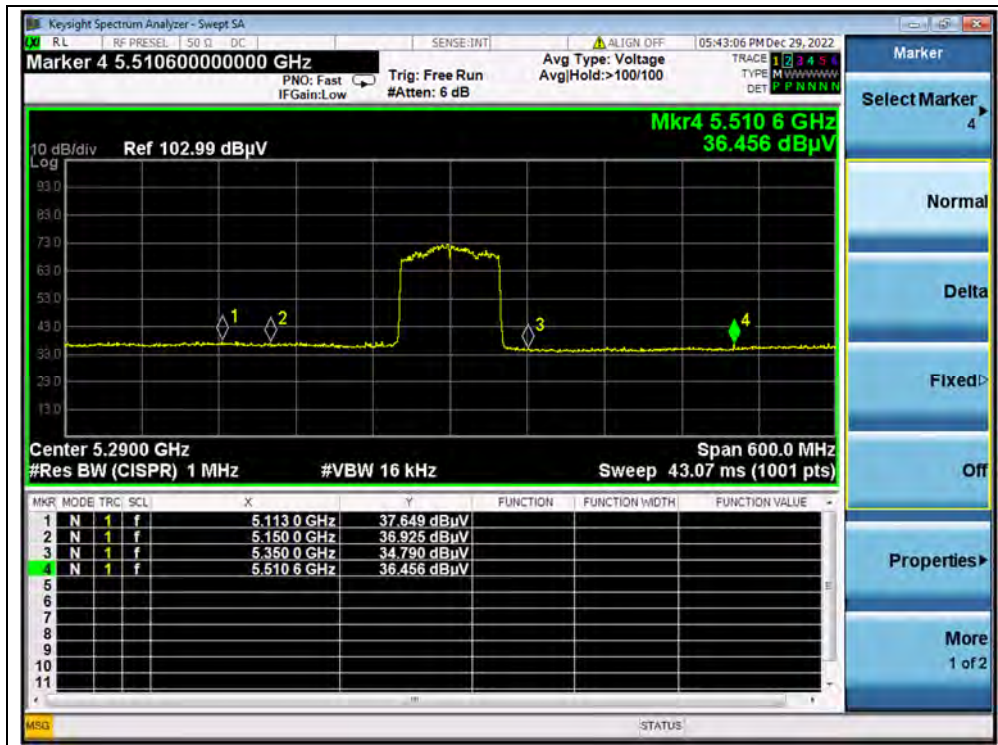
(PEAK, Channel 42, 802.11ac (VHT80))



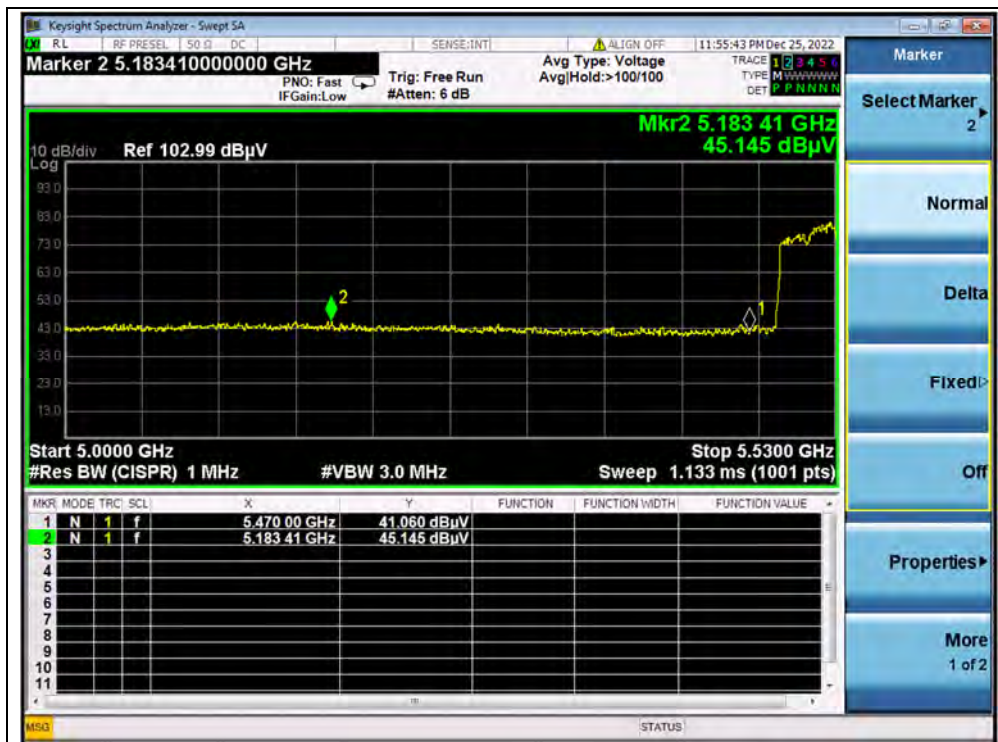
(AVERAGE, Channel 42, 802.11ac (VHT80))



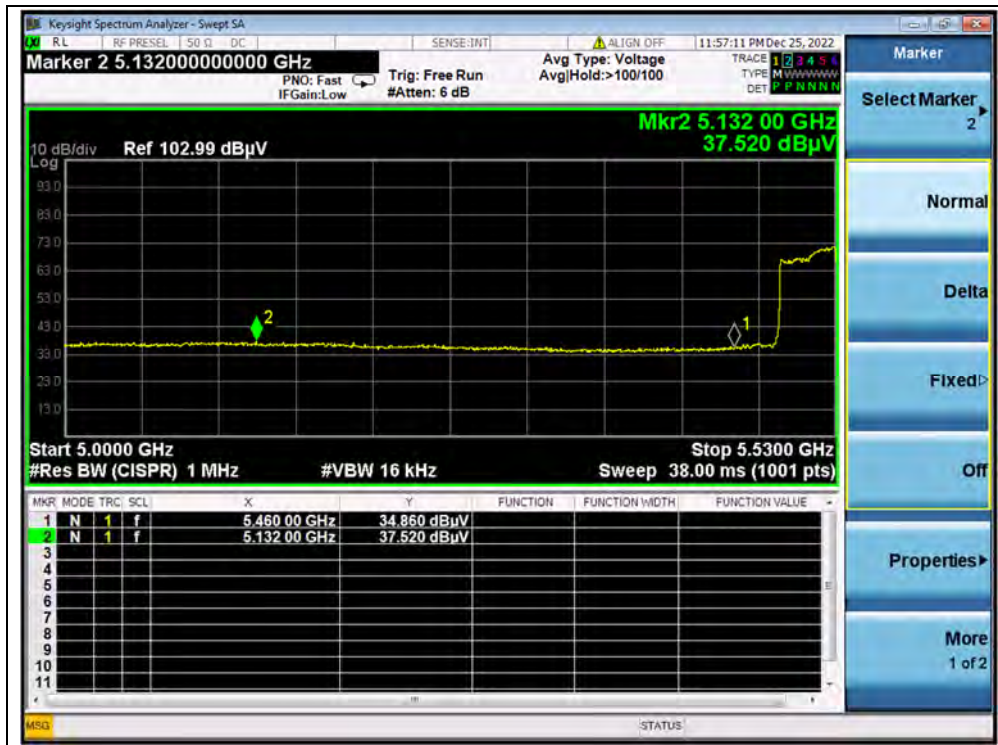
(PEAK, Channel 58, 802.11ac (VHT80))



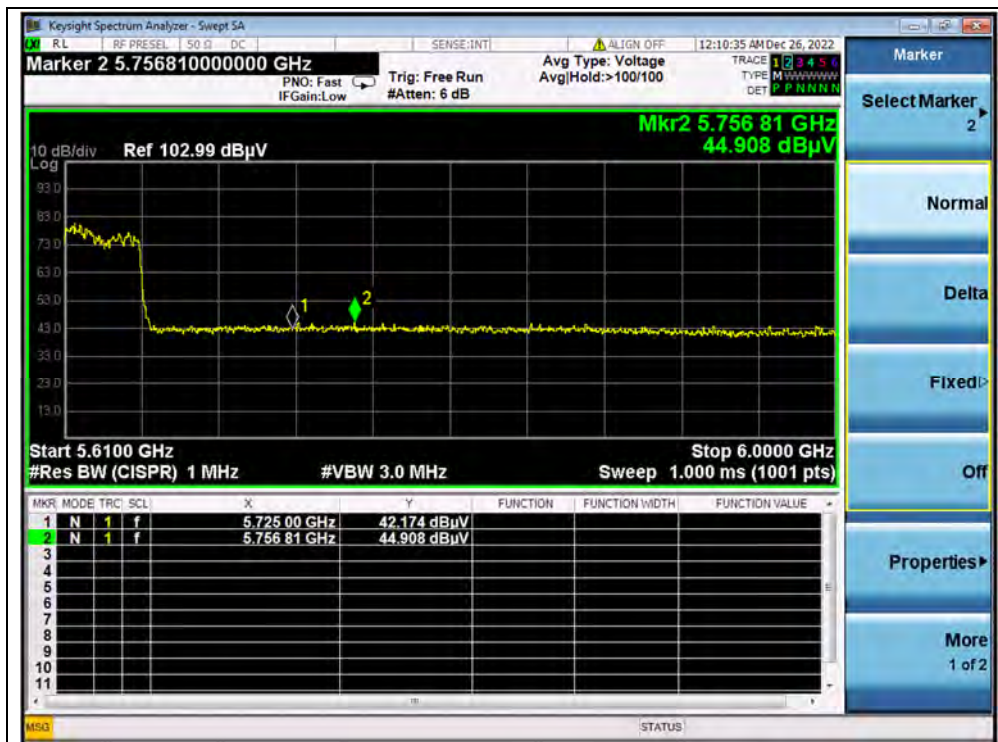
(AVERAGE, Channel 58, 802.11ac (VHT80))



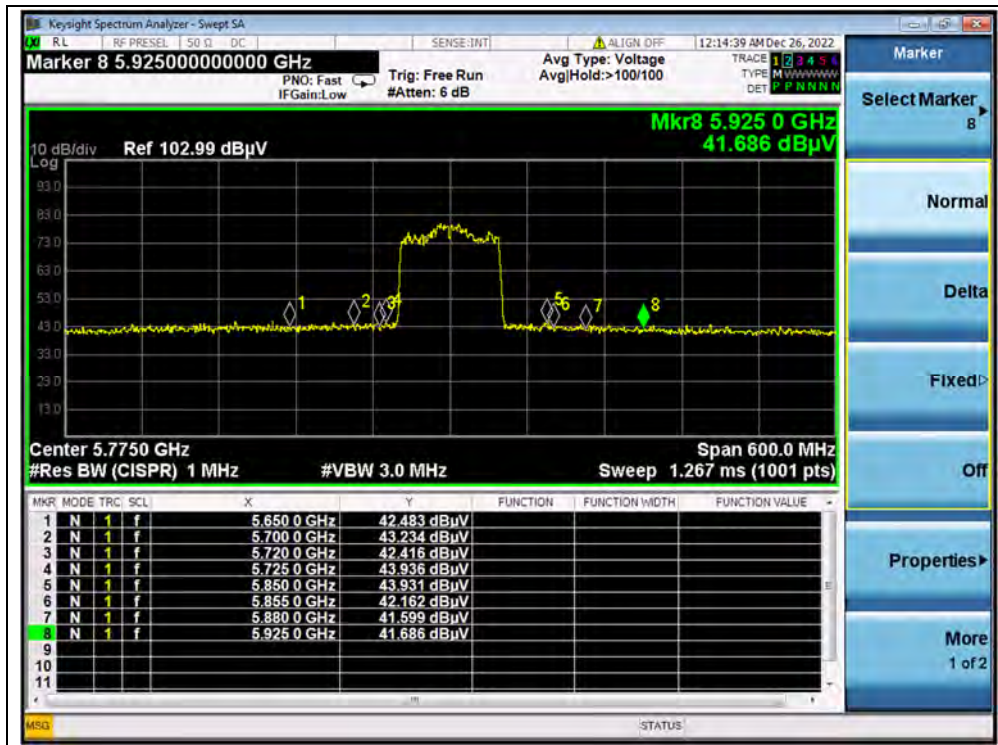
(PEAK, Channel 106, 802.11ac (VHT80))



(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);

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

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:

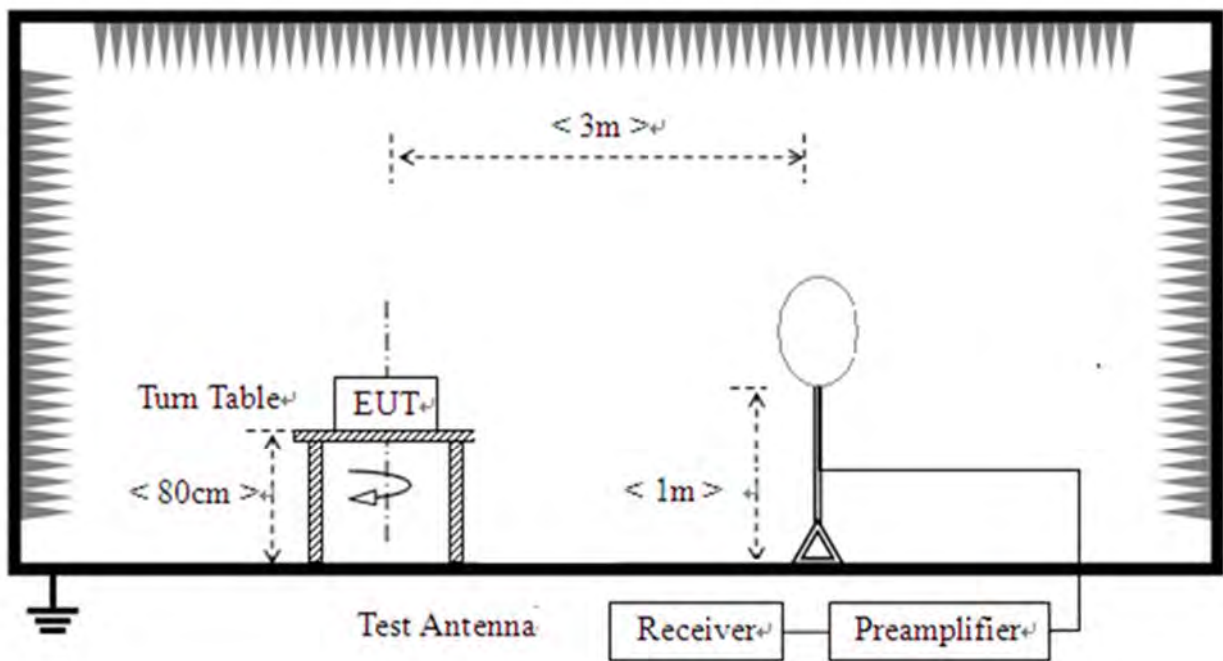
Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

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).

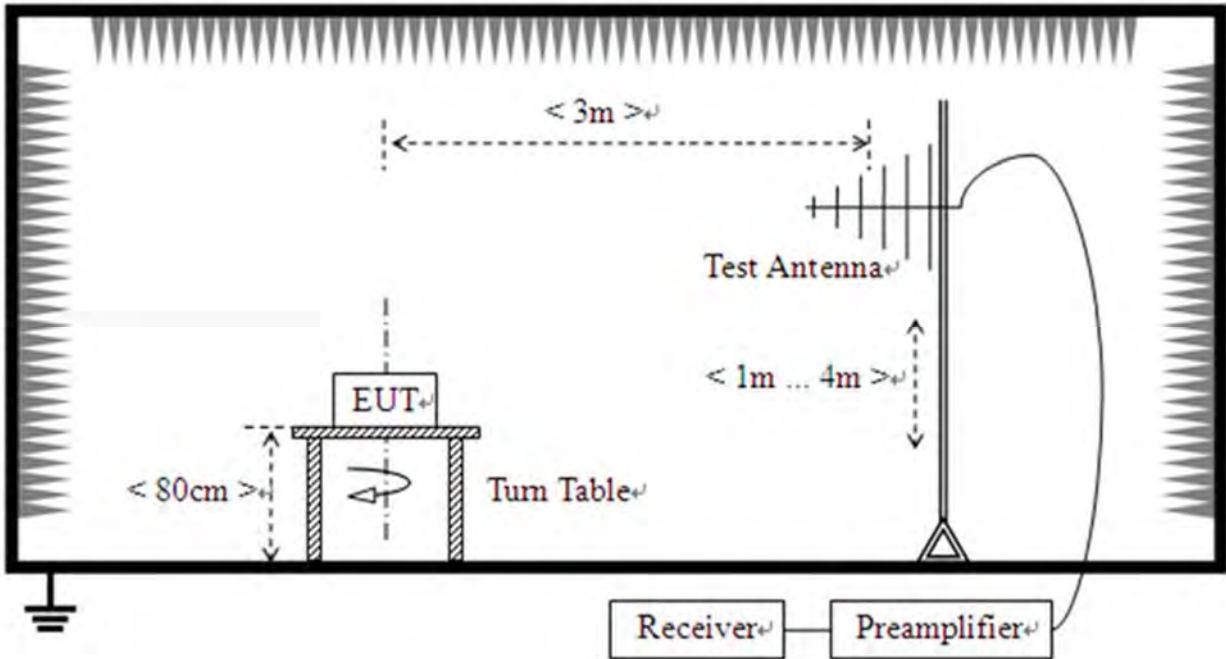
2.3.2. Test Description

Test Setup:

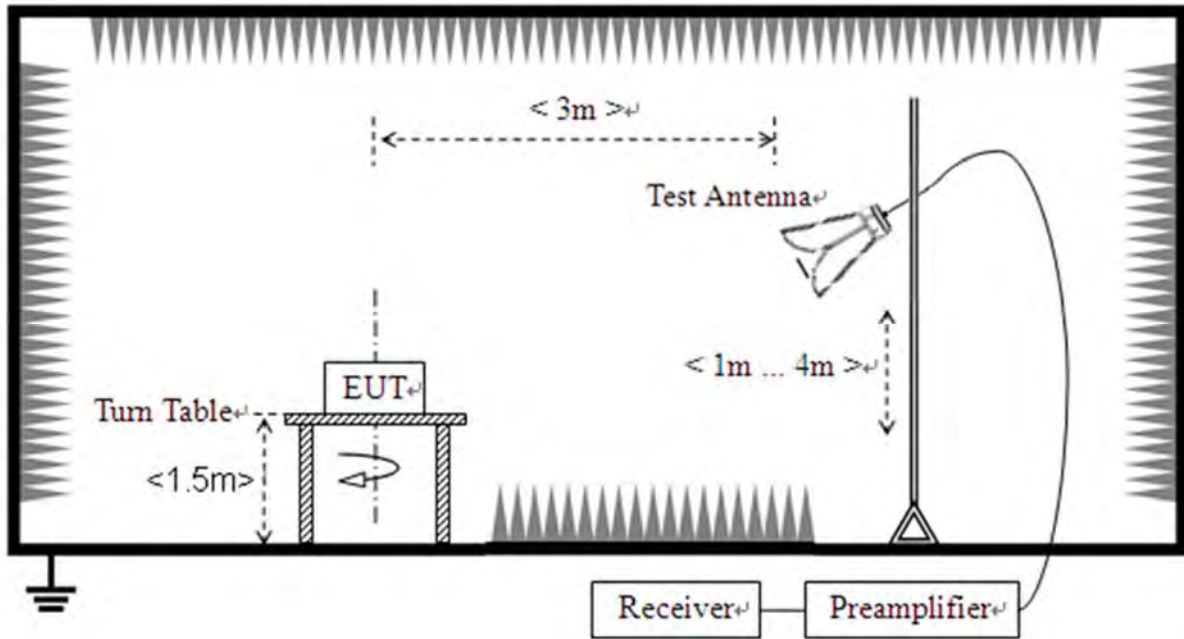
- 1) For radiated emissions from 9kHz to 30MHz



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 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. For measurements above 1 GHz, keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.



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 an quasi-peak measurement (or average).

The measurement results are obtained as below:

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

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.

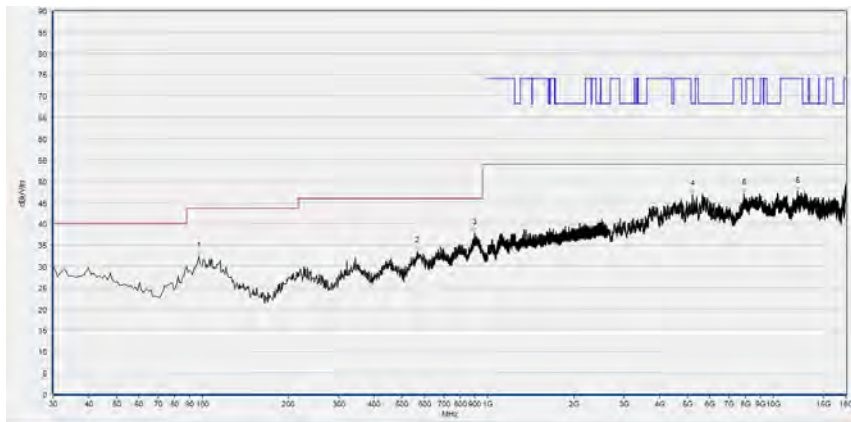
Note 3: For the frequency, which started from 18GHz to 10th harmonic of the highest frequency, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

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.



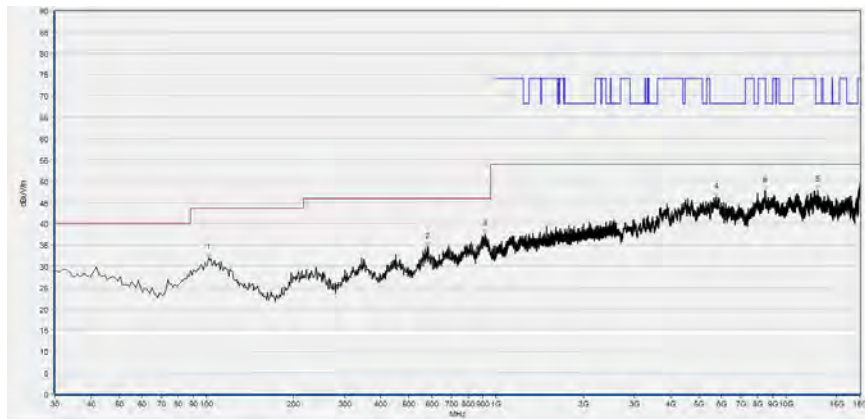
802.11a Mode

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
96.997	32.27	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
567.918	33.52	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
899.990	37.80	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5200.040	46.95	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
7883.257	47.02	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12186.877	47.57	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

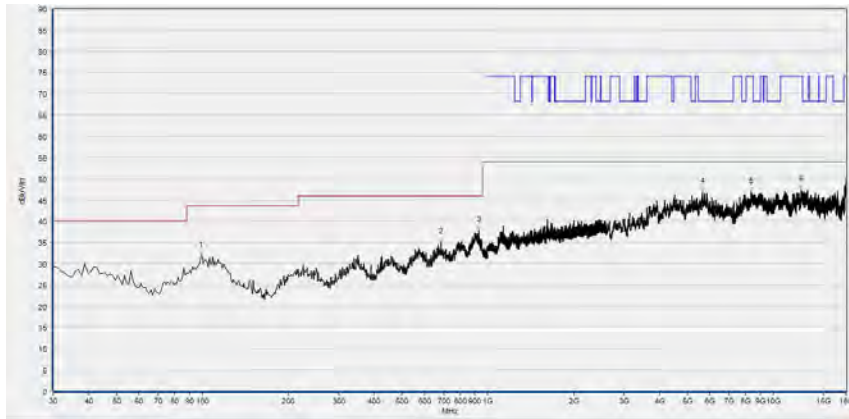
(Antenna Horizontal, 30MHz to 18GHz)



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
101.852	31.94	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
578.599	34.48	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
916.496	37.59	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5760.712	46.24	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8459.332	47.79	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12889.258	47.93	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

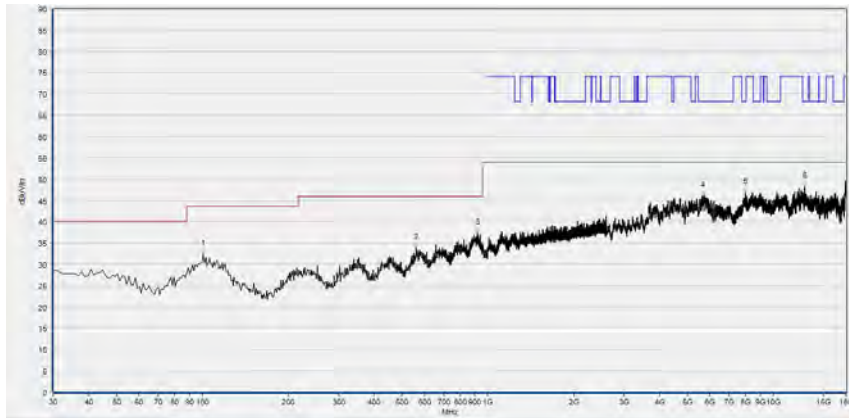
(Antenna Vertical, 30MHz to 18GHz)

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
98.939	31.83	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
685.405	35.03	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
931.061	37.80	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5637.487	46.96	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8382.316	46.86	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12519.584	47.40	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

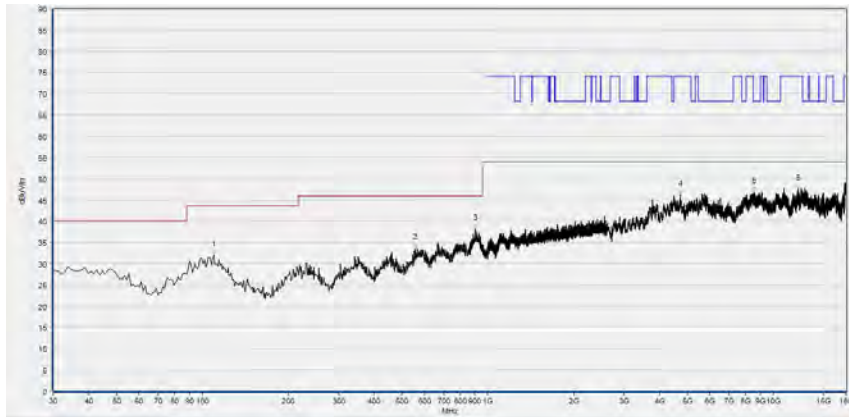
(Antenna Horizontal, 30MHz to 18GHz)



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
100.881	32.31	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
562.092	33.82	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
922.322	37.29	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5649.810	46.06	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
7997.239	46.92	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12913.903	48.32	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

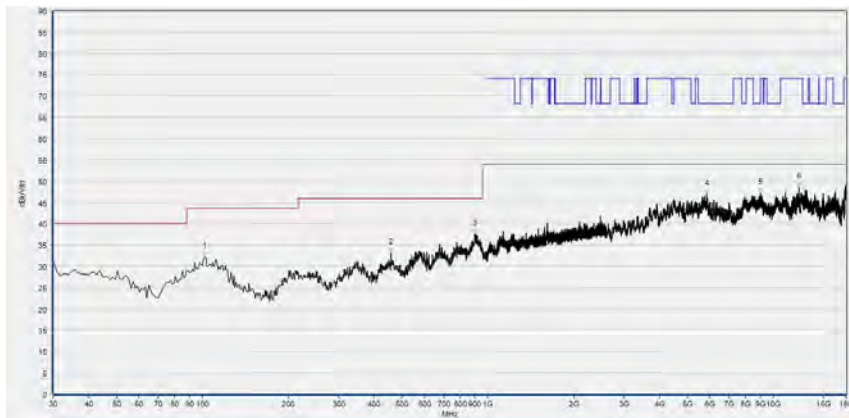
(Antenna Vertical, 30MHz to 18GHz)

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
109.620	31.98	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
556.266	33.67	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
901.932	38.15	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
4722.545	46.18	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8573.315	46.96	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12199.200	47.65	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

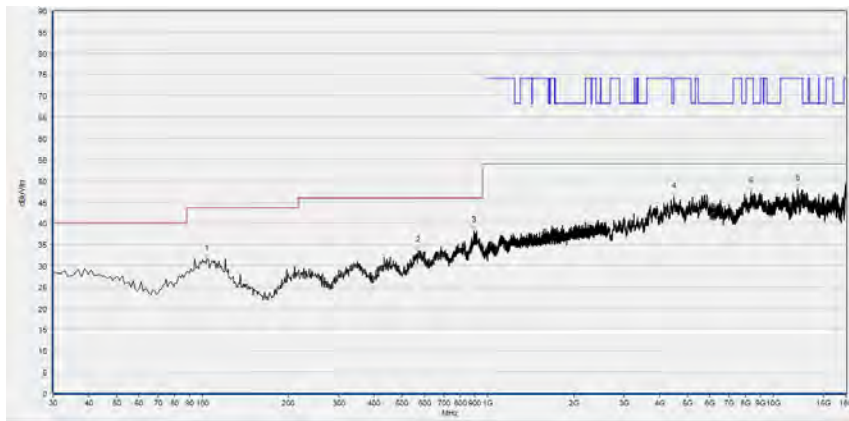
(Antenna Horizontal, 30MHz to 18GHz)



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
101.852	32.15	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
458.198	33.17	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
900.961	37.46	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5859.292	46.85	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
9013.843	47.20	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12294.699	48.64	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

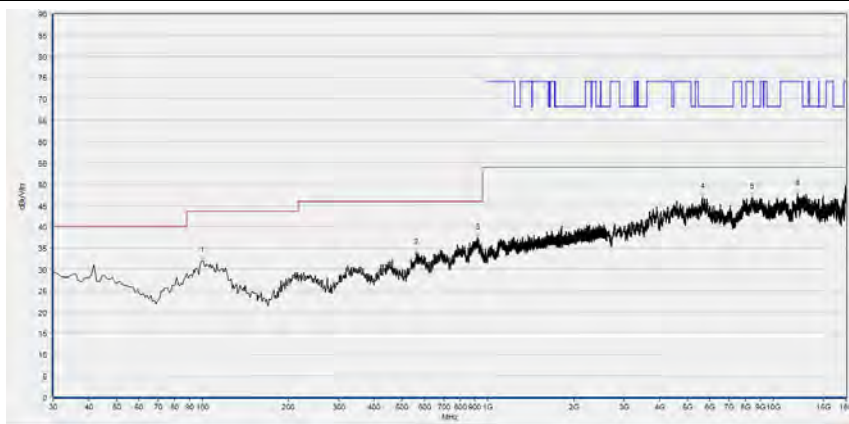
(Antenna Vertical, 30MHz to 18GHz)

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
103.794	31.56	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
568.889	33.47	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
896.106	38.17	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
4491.498	46.30	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8357.672	47.37	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12140.668	48.06	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

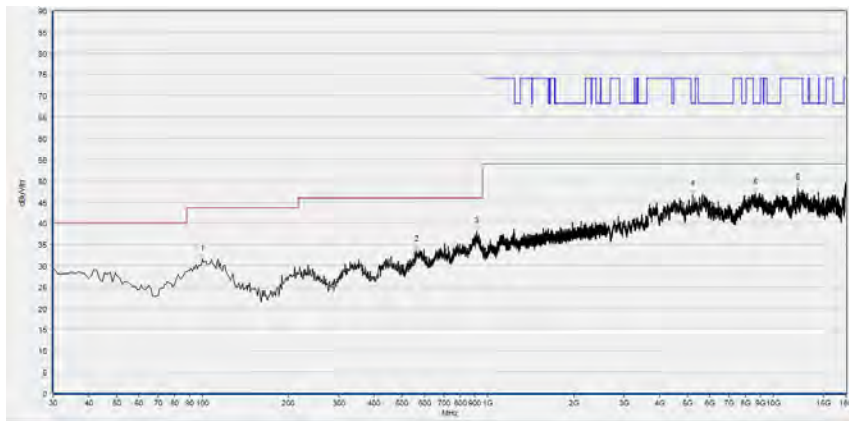
(Antenna Horizontal, 30MHz to 18GHz)



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
99.910	32.05	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
562.092	33.82	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
922.322	37.34	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5640.568	46.86	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8410.042	46.97	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12149.910	47.76	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

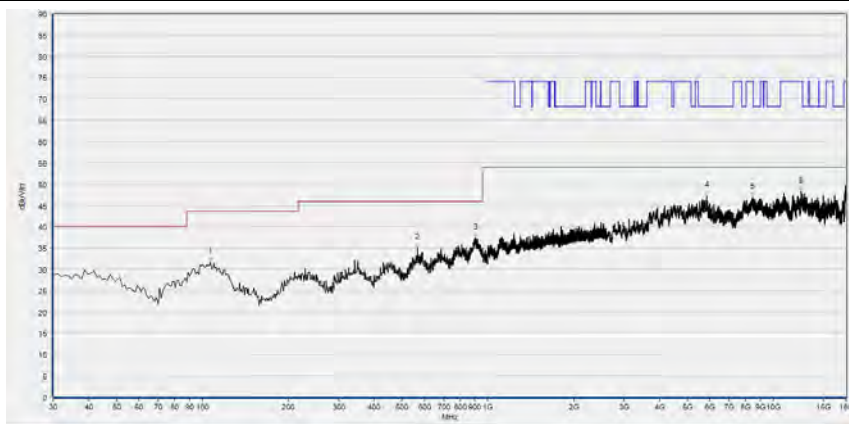
(Antenna Vertical, 30MHz to 18GHz)

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
99.910	31.51	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
563.063	33.75	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
913.584	38.09	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5206.201	46.75	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8653.411	47.01	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12171.474	48.20	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

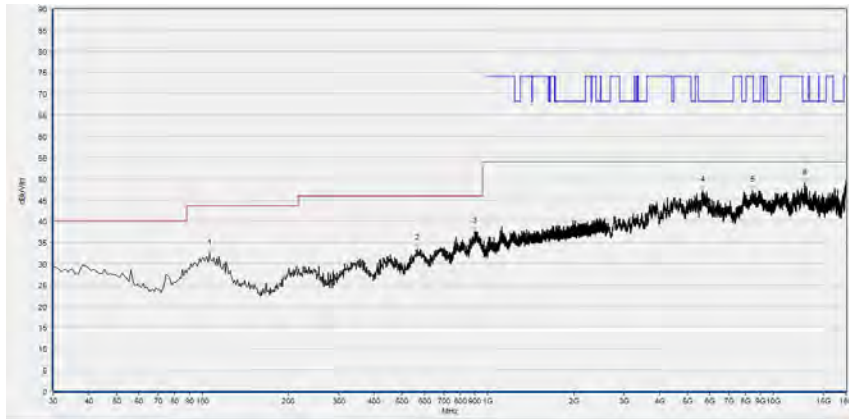
(Antenna Horizontal, 30MHz to 18GHz)



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
106.707	31.76	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
567.918	35.05	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
905.816	37.32	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5853.131	47.30	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8465.493	46.87	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12528.826	48.25	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

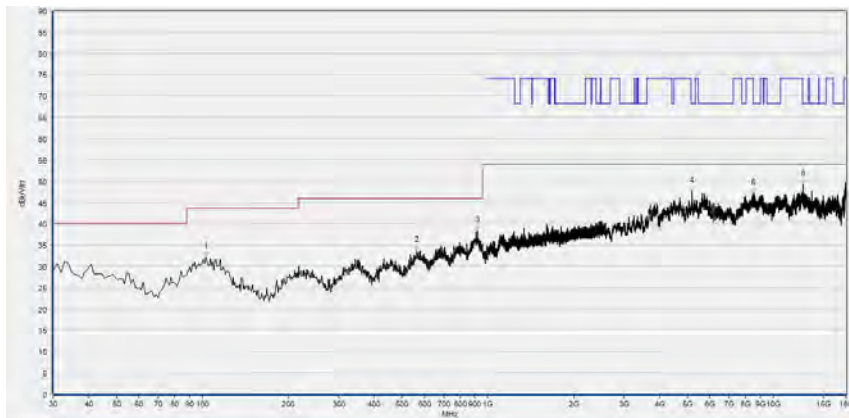
(Antenna Vertical, 30MHz to 18GHz)

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
105.736	32.33	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
566.947	33.44	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
899.990	37.58	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5640.568	47.22	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8447.009	47.18	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12910.822	48.89	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

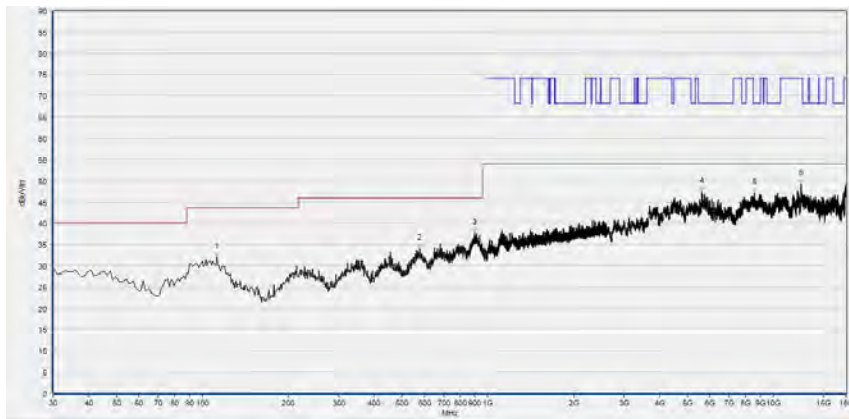
(Antenna Horizontal, 30MHz to 18GHz)



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
102.823	32.11	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
564.034	33.61	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
919.409	38.40	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5196.959	47.60	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8511.702	47.07	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12738.308	49.33	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

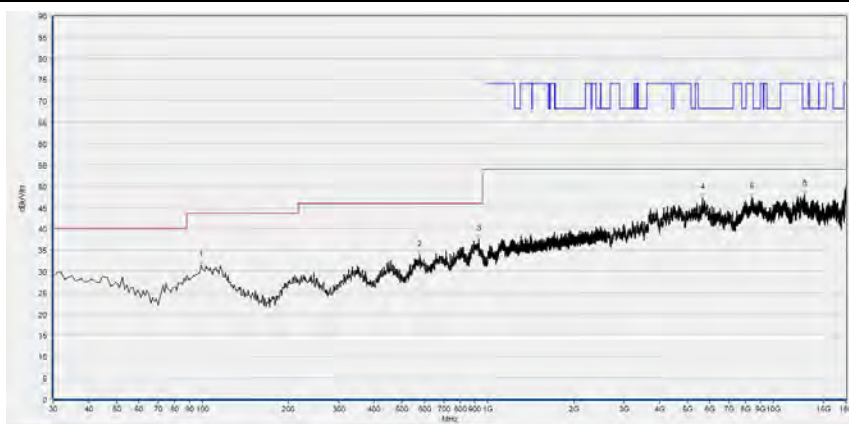
(Antenna Vertical, 30MHz to 18GHz)

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
112.533	32.03	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
577.628	34.00	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
897.077	37.65	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5631.326	47.45	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8616.443	47.08	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12522.665	49.24	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

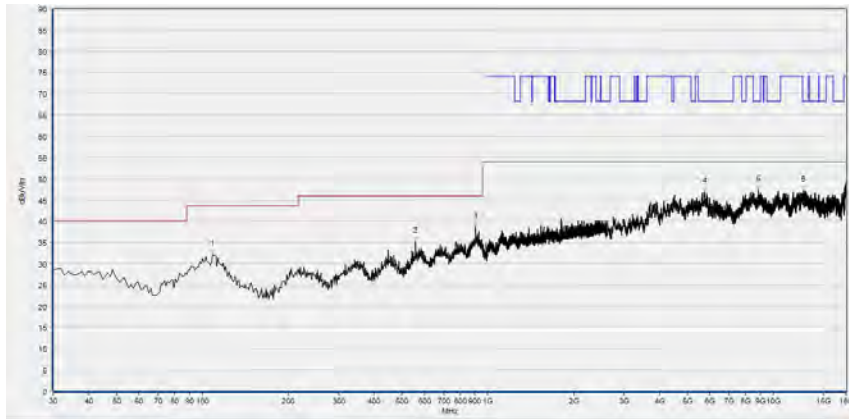
(Antenna Horizontal, 30MHz to 18GHz)



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
98.939	31.38	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
577.628	33.82	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
930.090	37.52	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5655.971	47.20	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8419.284	47.40	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12898.500	48.04	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

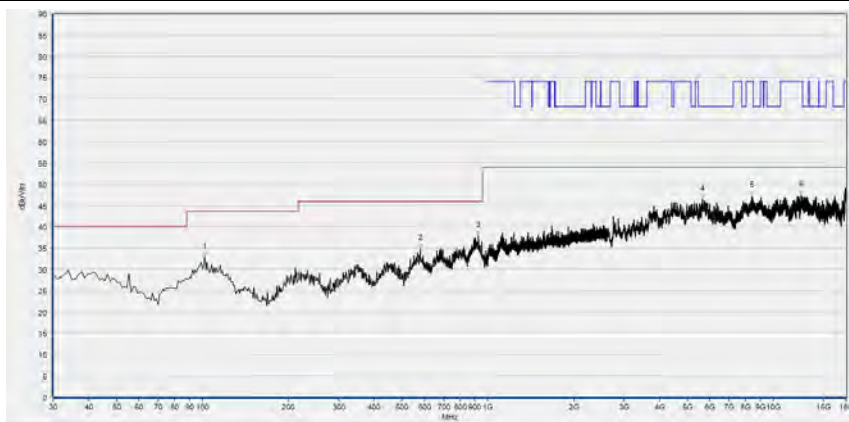
(Antenna Vertical, 30MHz to 18GHz)

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
108.649	32.16	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
558.208	35.23	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
906.787	38.68	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5763.793	46.88	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8853.651	47.50	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12741.388	47.33	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

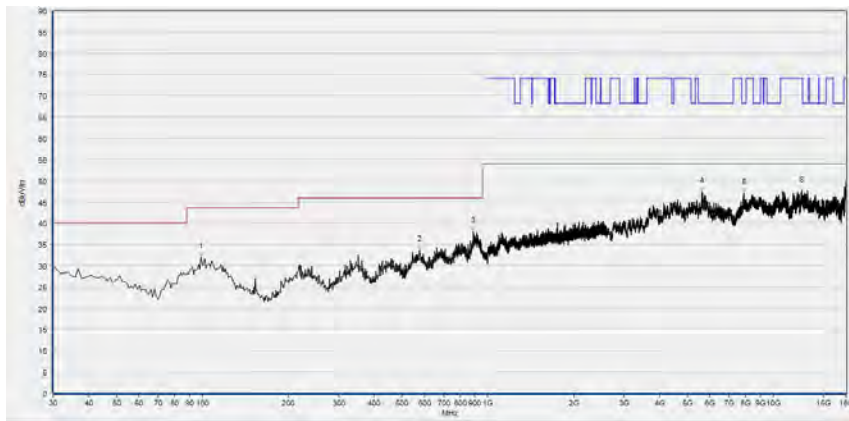
(Antenna Horizontal, 30MHz to 18GHz)



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
101.852	32.92	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
580.541	34.87	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
927.177	37.87	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5646.729	46.35	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8406.961	47.29	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12547.309	47.36	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

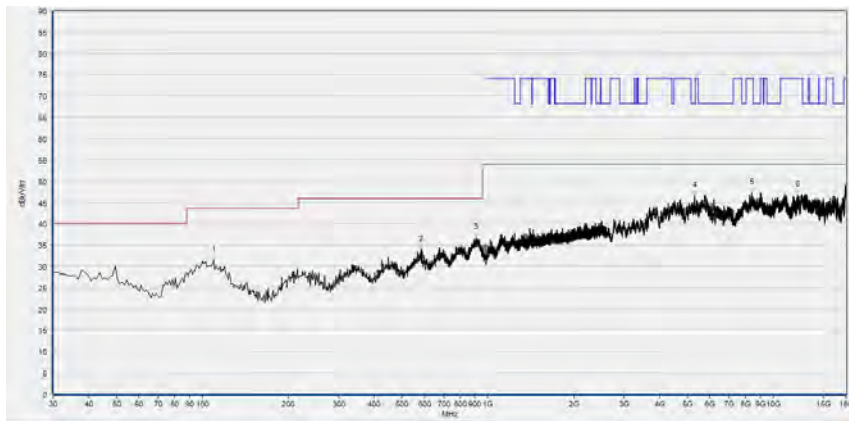
(Antenna Vertical, 30MHz to 18GHz)

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
98.939	31.94	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
575.686	33.65	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
891.251	38.00	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5634.407	47.44	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
7880.176	47.04	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12596.599	47.53	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

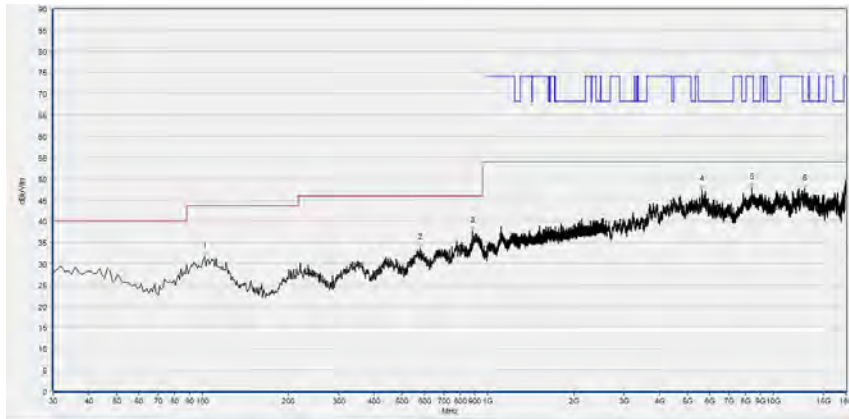
(Antenna Horizontal, 30MHz to 18GHz)



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
109.620	31.39	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
584.424	33.90	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
907.758	36.68	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5310.942	46.60	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8419.284	47.21	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12143.749	46.79	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

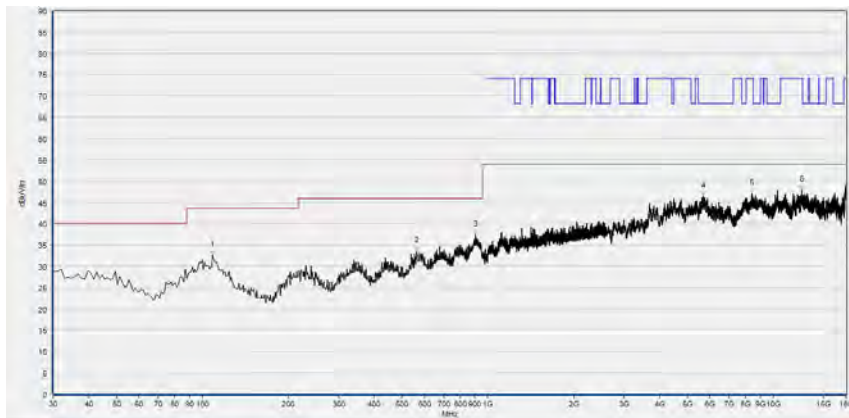
(Antenna Vertical, 30MHz to 18GHz)

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
101.852	31.68	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
578.599	33.65	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
883.483	37.66	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5634.407	47.36	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8413.123	48.00	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12880.016	47.66	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

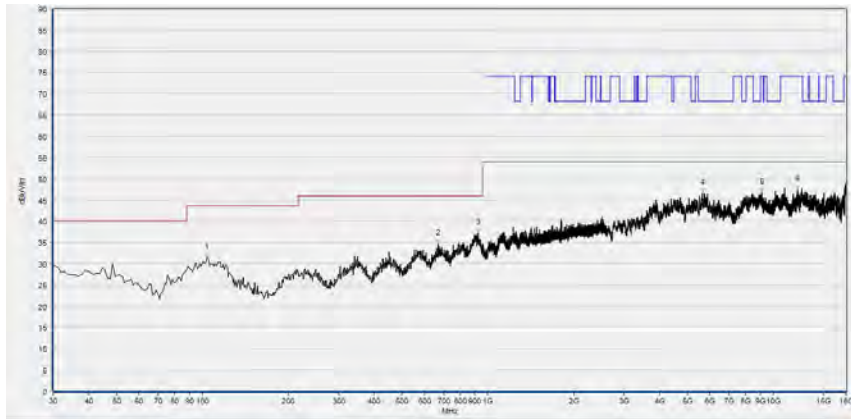
(Antenna Horizontal, 30MHz to 18GHz)



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
108.649	32.57	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
563.063	33.58	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
902.903	37.43	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5671.374	46.42	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8394.639	47.15	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12599.680	47.96	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

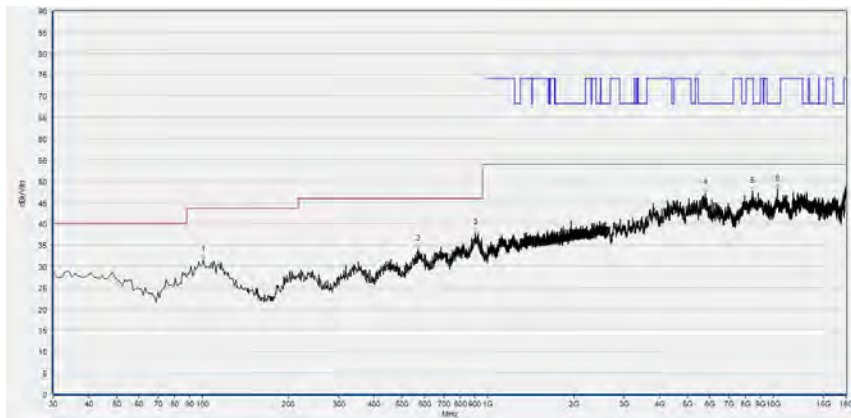
(Antenna Vertical, 30MHz to 18GHz)

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
103.794	31.29	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
670.841	34.74	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
924.264	37.14	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5637.487	46.56	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
9109.342	46.70	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12162.232	47.43	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

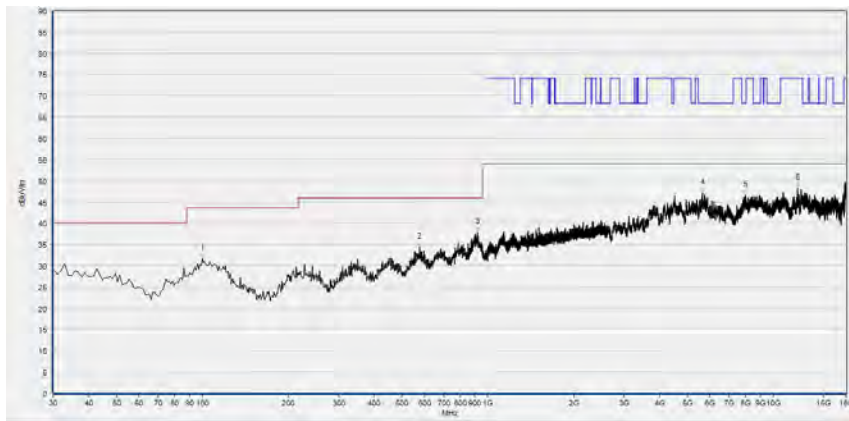
(Antenna Horizontal, 30MHz to 18GHz)



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
100.881	31.43	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
570.831	33.99	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
902.903	37.81	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5785.357	47.03	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8462.412	47.57	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10375.475	48.06	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

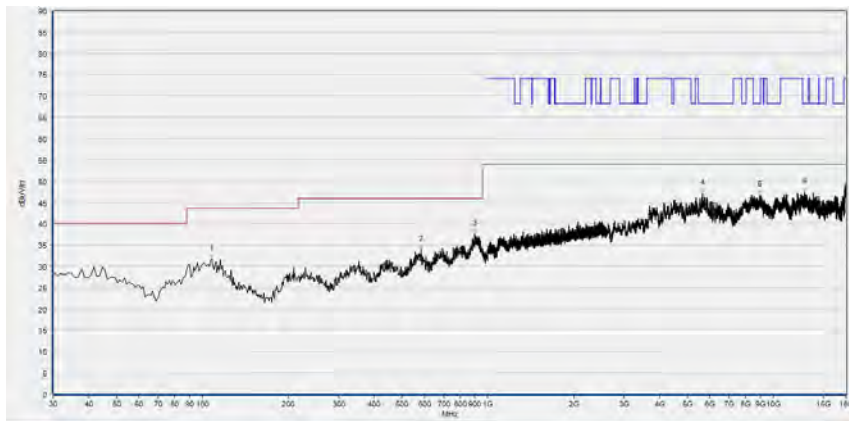
(Antenna Vertical, 30MHz to 18GHz)

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
99.910	31.69	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
576.657	34.42	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
922.322	37.80	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5640.568	47.12	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
7981.836	46.57	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12165.313	48.30	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



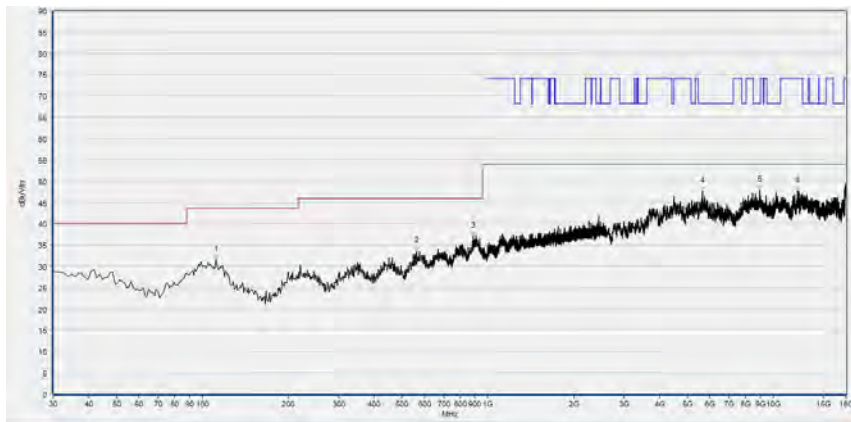
Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
107.678	31.73	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
582.482	33.89	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
898.048	37.50	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5659.052	47.13	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8967.634	46.79	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12898.500	47.37	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)



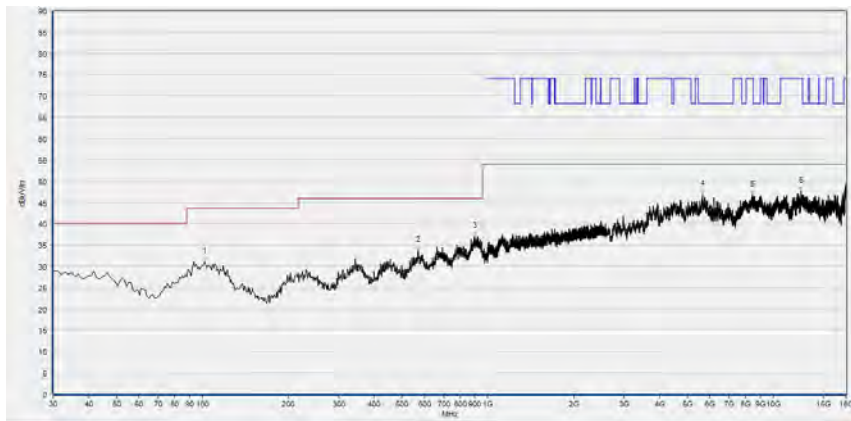
802.11n (HT40) mode

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
111.562	31.57	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
563.063	33.52	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
891.251	36.99	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5640.568	47.52	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8976.875	47.89	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12156.071	47.79	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

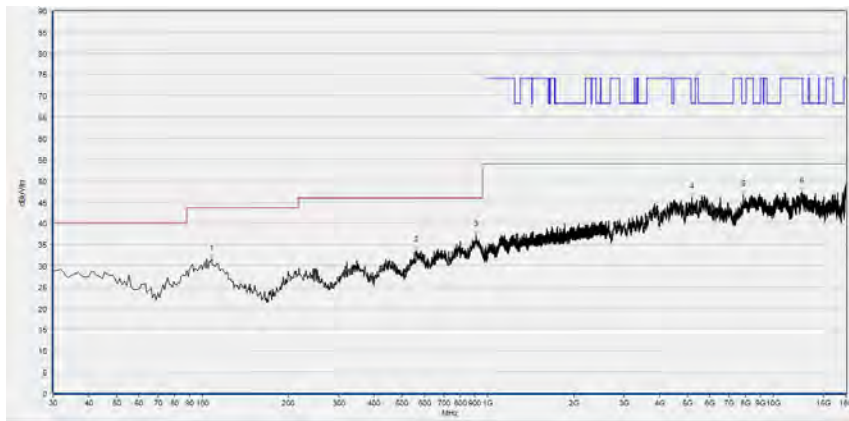
(Antenna Horizontal, 30MHz to 18GHz)



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
101.852	31.07	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
571.802	33.66	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
899.019	37.02	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5646.729	46.90	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8468.574	46.73	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12531.906	47.52	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

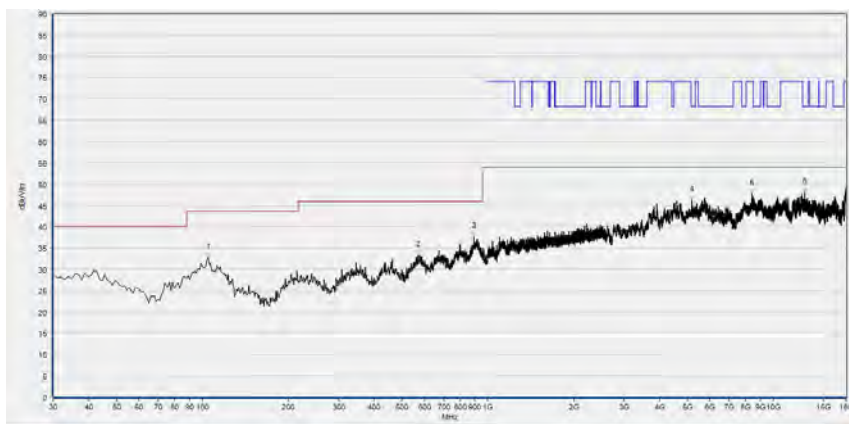
(Antenna Vertical, 30MHz to 18GHz)

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
107.678	31.44	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
561.121	33.46	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
910.671	37.24	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5178.476	46.04	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
7852.450	46.71	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12618.164	47.35	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

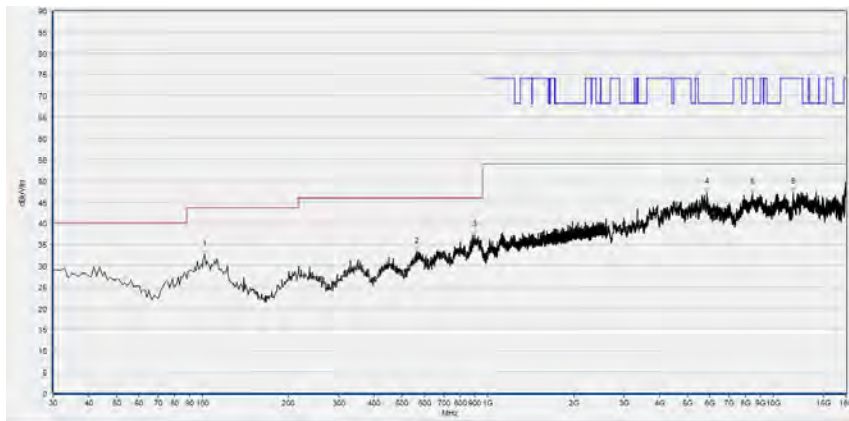
(Antenna Horizontal, 30MHz to 18GHz)



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
104.765	32.73	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
568.889	33.39	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
894.164	37.78	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5187.718	46.31	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8434.687	47.72	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12886.177	48.11	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

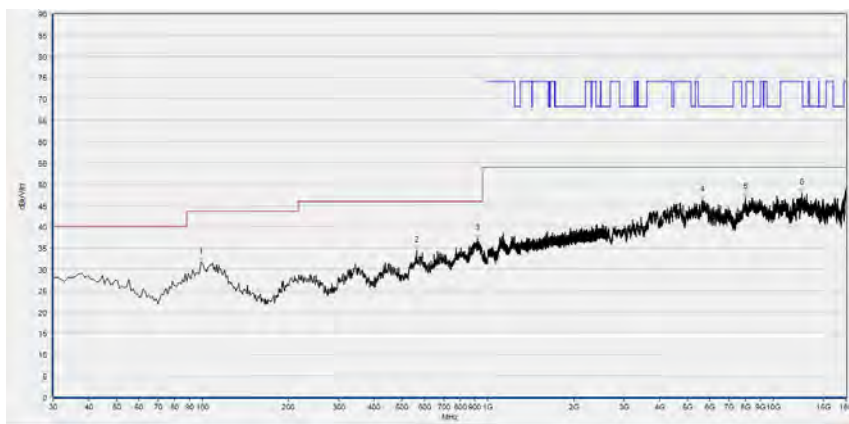
(Antenna Vertical, 30MHz to 18GHz)

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
101.852	32.59	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
564.034	33.30	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
899.990	37.26	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5865.453	47.24	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8453.171	47.03	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11734.027	47.18	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

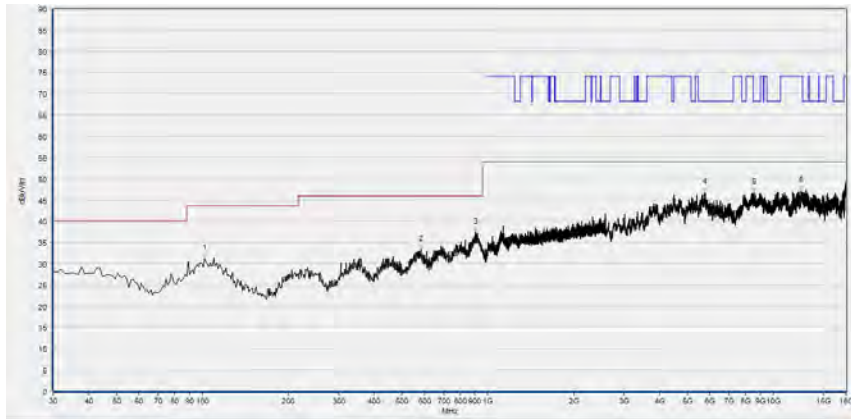
(Antenna Horizontal, 30MHz to 18GHz)



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
98.939	31.74	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
564.034	34.34	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
918.438	37.27	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5659.052	46.25	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
7991.078	46.98	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12559.632	47.99	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

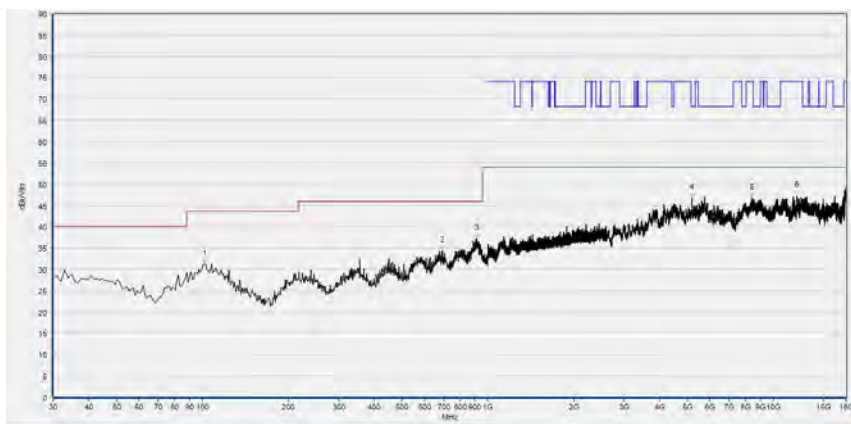
(Antenna Vertical, 30MHz to 18GHz)

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
101.852	31.25	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
583.453	33.42	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
902.903	37.32	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5751.470	46.76	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8570.234	46.74	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12544.229	47.08	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

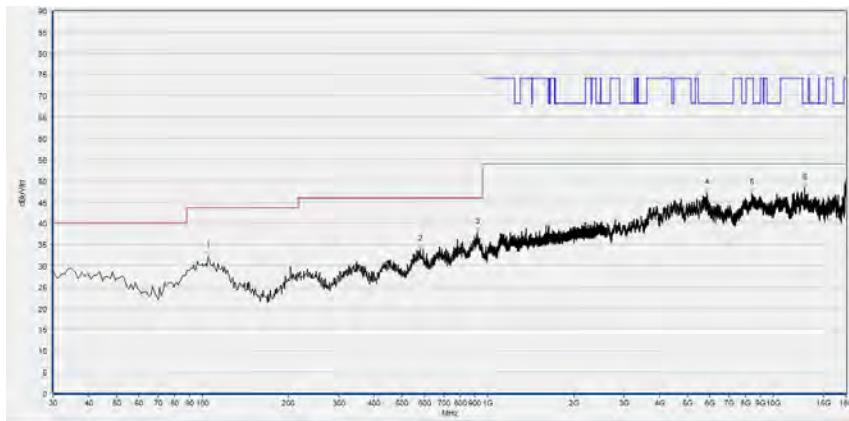
(Antenna Horizontal, 30MHz to 18GHz)



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
101.852	31.11	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
694.144	34.35	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
914.555	37.23	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5196.959	46.76	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8403.881	46.69	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12069.814	47.31	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

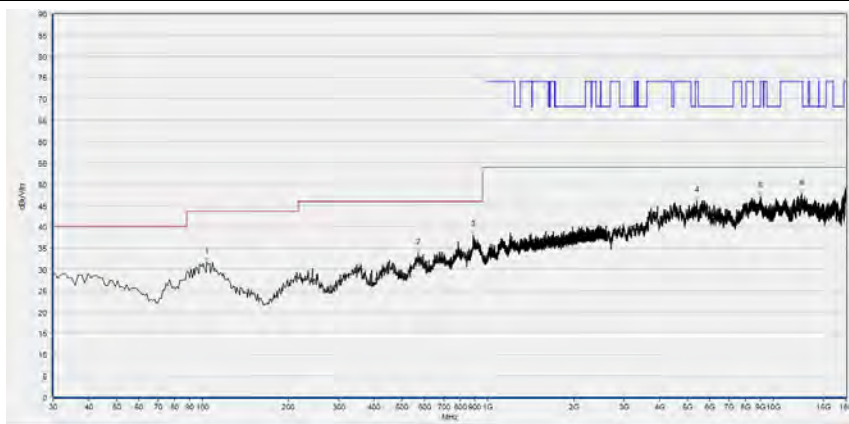
(Antenna Vertical, 30MHz to 18GHz)

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
104.765	32.25	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
579.570	33.80	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
919.409	37.81	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5856.211	47.07	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8406.961	47.07	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12886.177	48.30	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

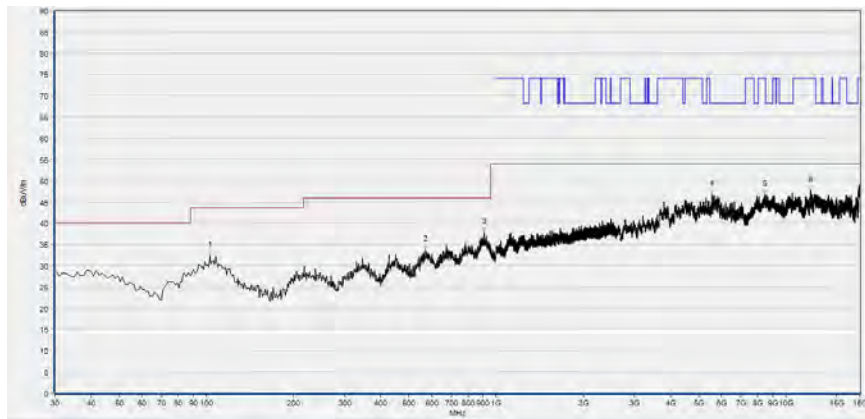
(Antenna Horizontal, 30MHz to 18GHz)



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
103.794	31.68	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
570.831	33.94	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
887.367	38.08	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5397.199	46.10	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9020.004	47.15	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12605.841	47.75	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

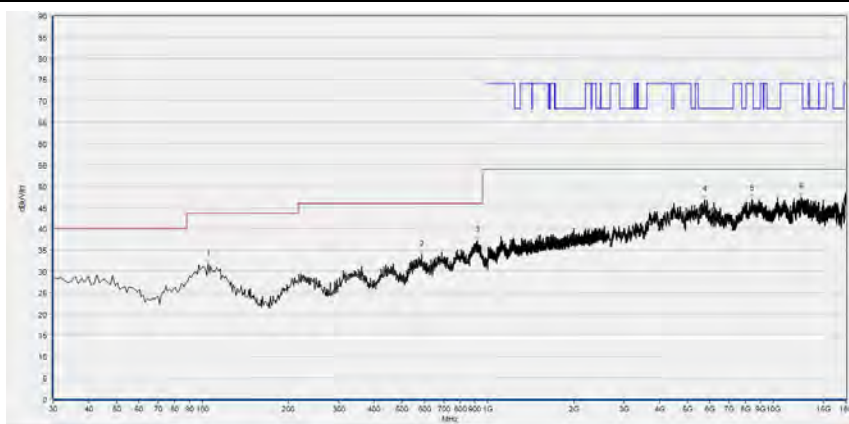
(Antenna Vertical, 30MHz to 18GHz)

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
102.823	32.33	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
571.802	33.64	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
908.729	37.83	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5548.150	46.75	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8447.009	46.77	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12149.910	47.73	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

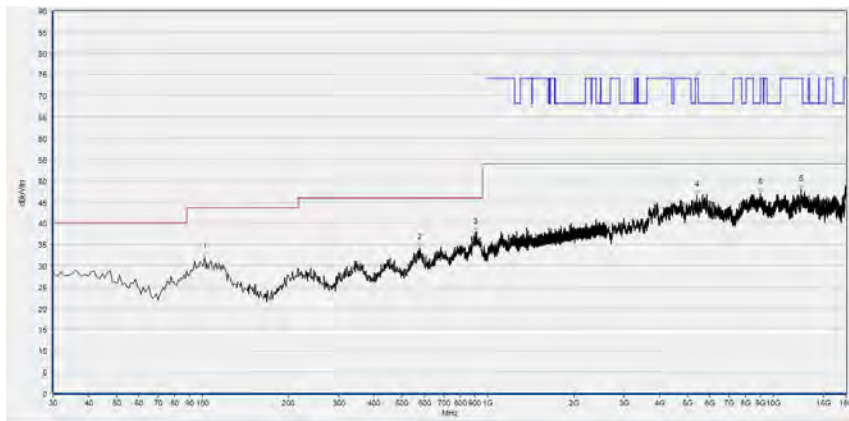
(Antenna Horizontal, 30MHz to 18GHz)



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
104.765	31.62	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
587.337	33.87	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
917.467	37.20	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5742.228	46.74	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8406.961	46.94	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12525.745	47.35	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

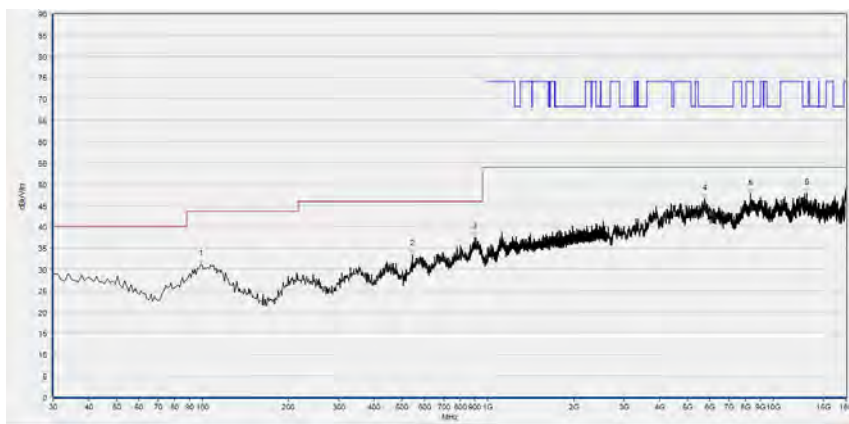
(Antenna Vertical, 30MHz to 18GHz)

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
101.852	32.00	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
575.686	34.20	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
905.816	37.87	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5403.361	46.52	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8989.198	47.15	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12550.390	47.85	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

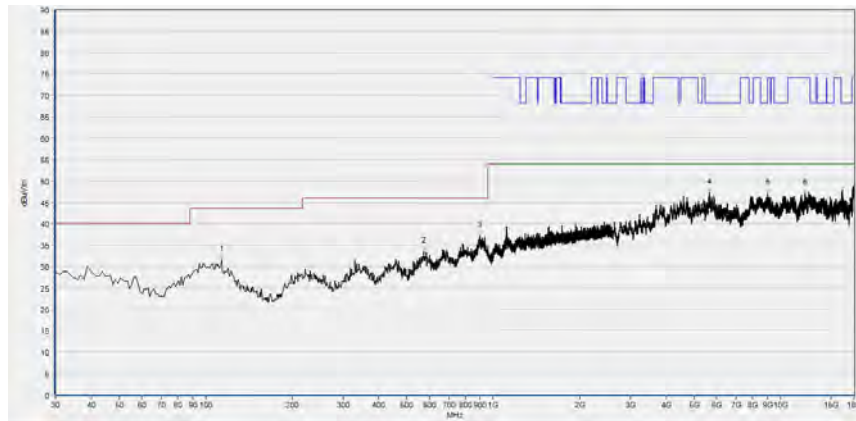
(Antenna Horizontal, 30MHz to 18GHz)



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
98.939	31.09	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
544.615	33.59	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
900.961	37.55	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5745.309	46.51	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8302.220	47.82	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13095.659	47.87	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

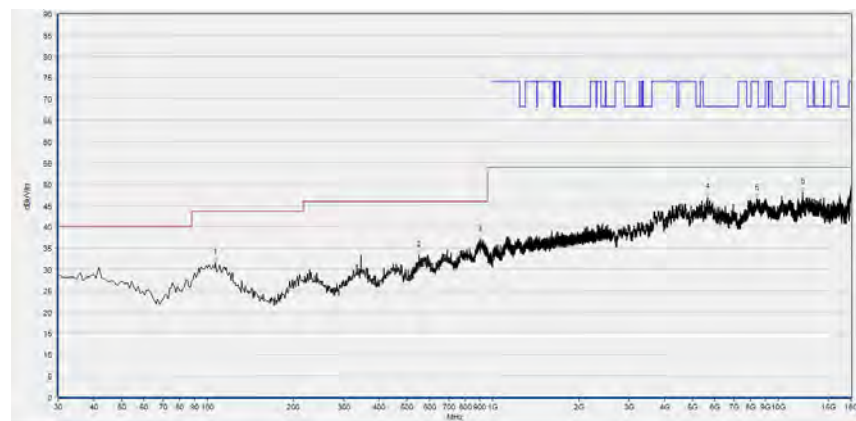
(Antenna Vertical, 30MHz to 18GHz)

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
113.504	31.49	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
572.773	33.48	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
898.048	37.16	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5640.568	47.29	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8998.440	47.09	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12137.588	47.10	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

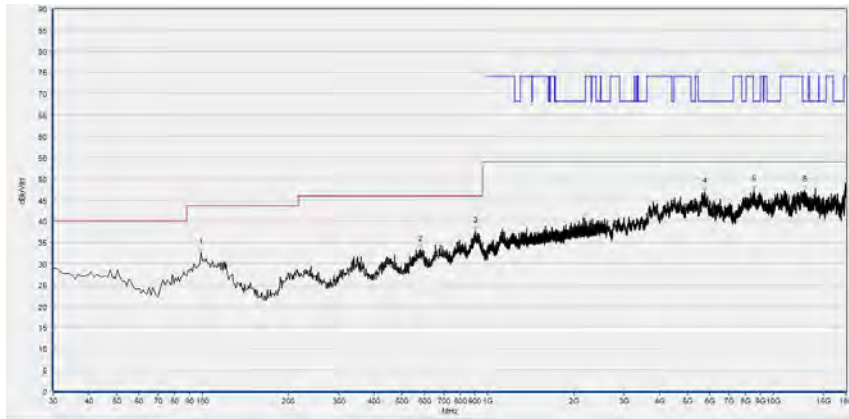
(Antenna Horizontal, 30MHz to 18GHz)



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
106.707	31.58	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
552.382	33.37	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
900.961	36.83	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5646.729	46.92	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8419.284	46.55	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12146.829	48.05	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

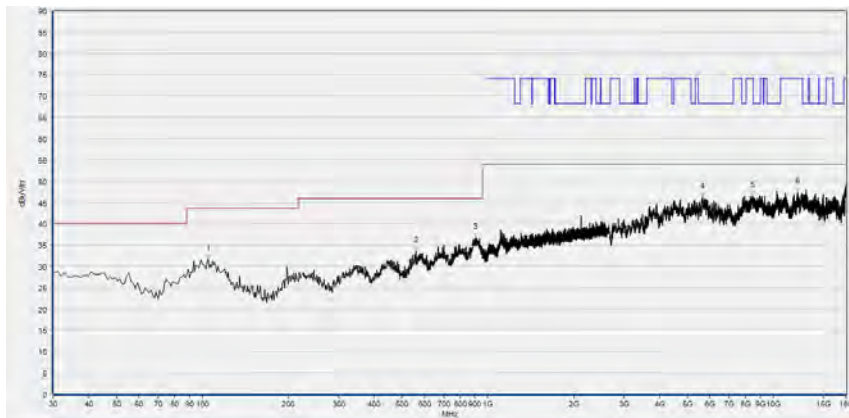
(Antenna Vertical, 30MHz to 18GHz)

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
98.939	32.49	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
581.512	33.42	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
901.932	37.71	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5751.470	46.86	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8576.395	47.46	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12898.500	47.31	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

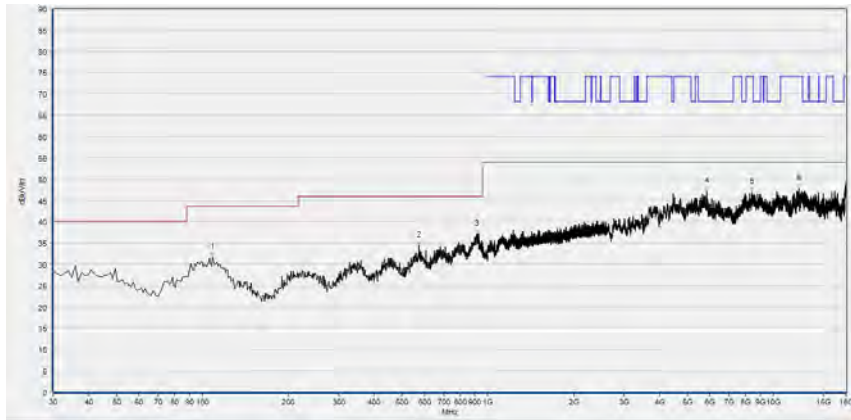


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
104.765	31.64	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
559.179	33.55	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
903.874	36.74	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5668.294	46.20	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8450.090	46.65	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12165.313	47.42	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

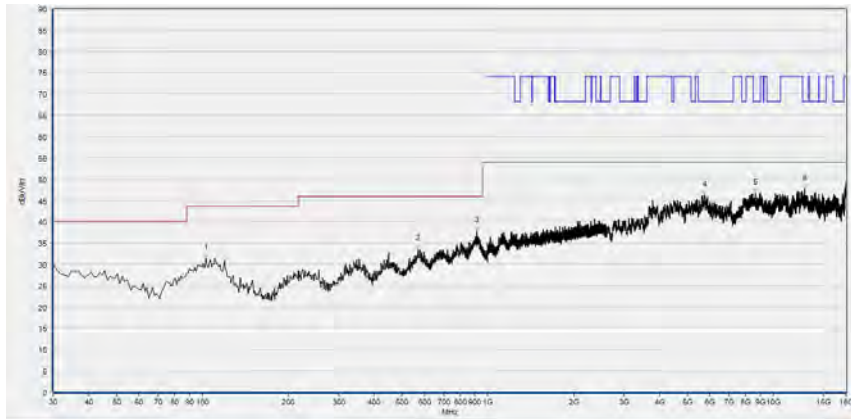
802.11ac (VHT80) Mode

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
108.649	31.70	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
573.744	34.38	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
912.613	37.03	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5862.372	47.05	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8413.123	46.87	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12291.618	47.84	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

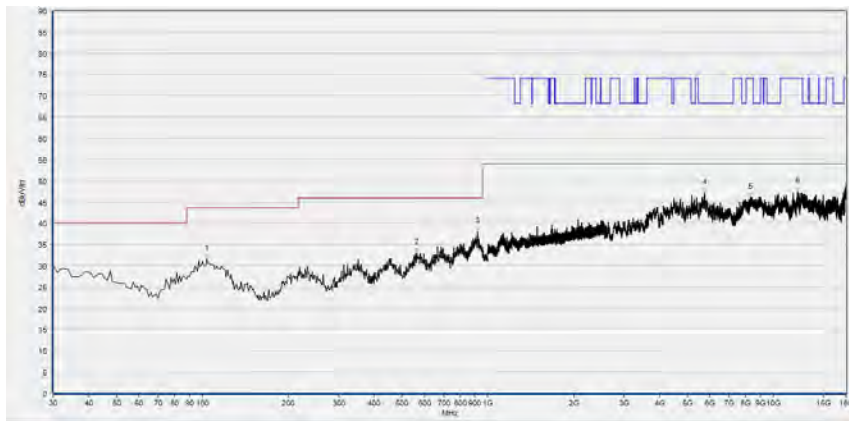
(Antenna Horizontal, 30MHz to 18GHz)



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
102.823	31.31	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
569.860	33.59	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
914.555	37.83	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5760.712	46.27	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8656.491	46.81	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12895.419	47.72	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

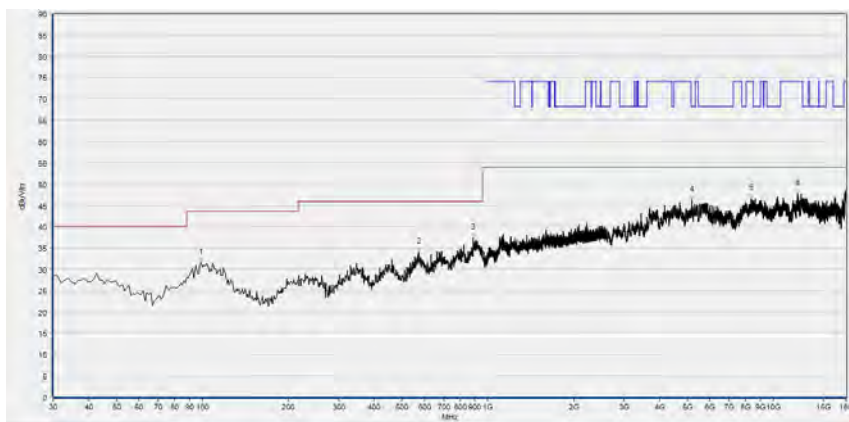
(Antenna Vertical, 30MHz to 18GHz)

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
103.794	31.44	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
563.063	32.96	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
921.351	38.06	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5754.551	47.10	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8299.140	46.01	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12143.749	47.38	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

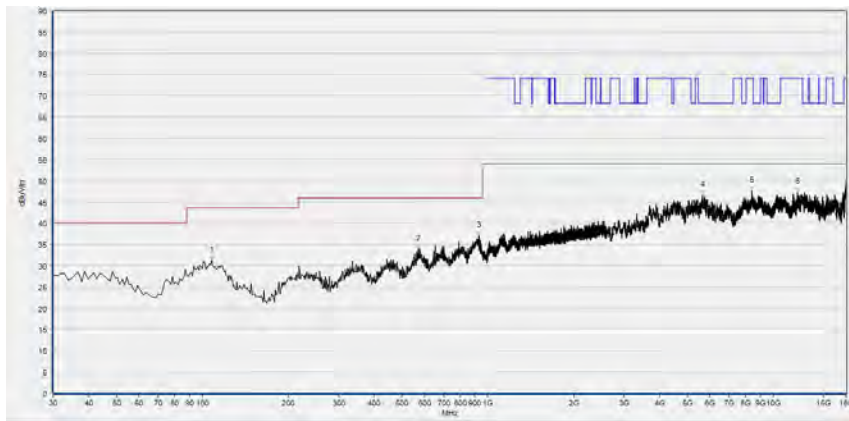
(Antenna Horizontal, 30MHz to 18GHz)



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
98.939	31.52	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
572.773	34.02	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
890.280	37.39	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5193.879	46.32	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8379.236	46.64	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12140.668	47.75	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

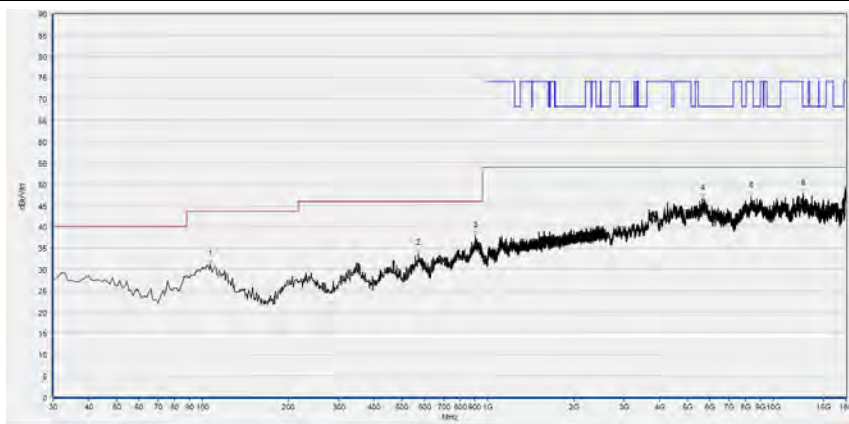
(Antenna Vertical, 30MHz to 18GHz)

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
107.678	31.25	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
570.831	33.88	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
930.090	36.97	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5640.568	46.56	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8425.445	47.57	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12165.313	47.24	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

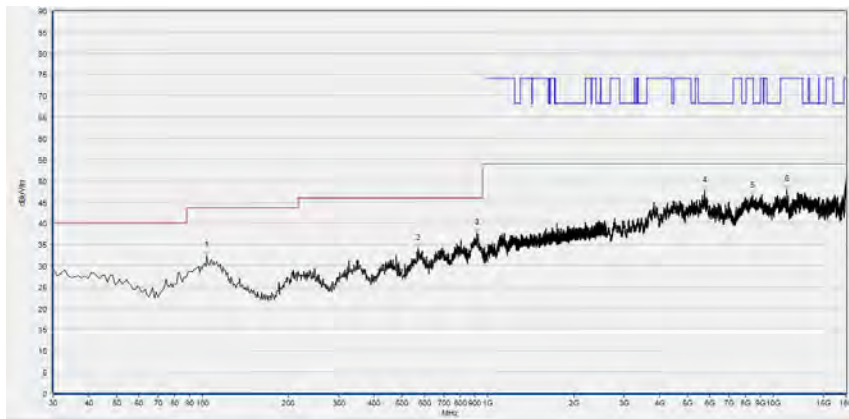
(Antenna Horizontal, 30MHz to 18GHz)



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
106.707	31.14	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
571.802	33.73	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
905.816	37.82	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5640.568	46.66	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8379.236	47.03	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12753.711	47.72	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

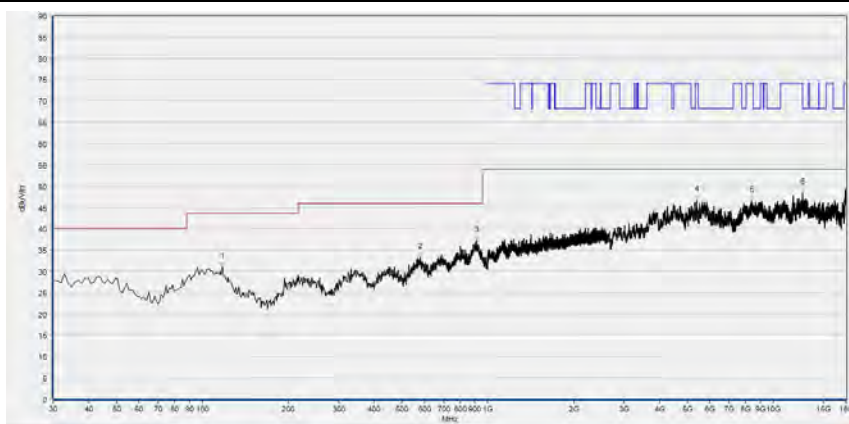
(Antenna Vertical, 30MHz to 18GHz)

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
103.794	32.31	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
569.860	33.97	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
914.555	37.71	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5748.390	47.62	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8453.171	46.38	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11139.468	47.87	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

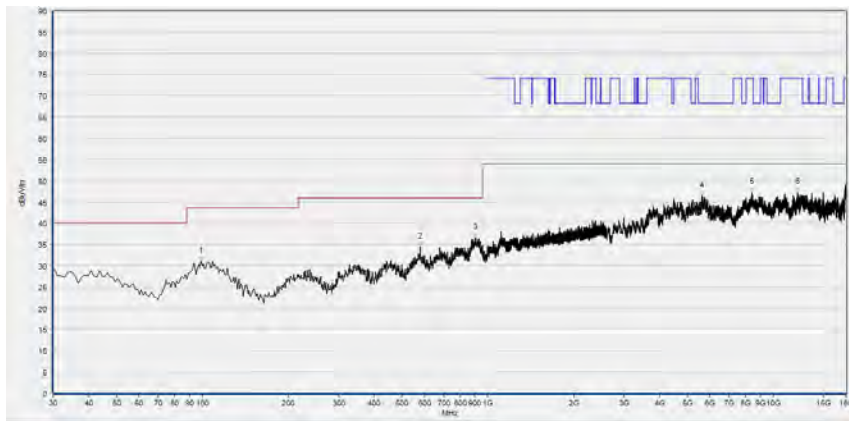
(Antenna Horizontal, 30MHz to 18GHz)



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
117.387	30.94	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
580.541	33.43	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
912.613	37.15	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5384.877	46.70	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8413.123	46.61	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12667.453	48.45	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

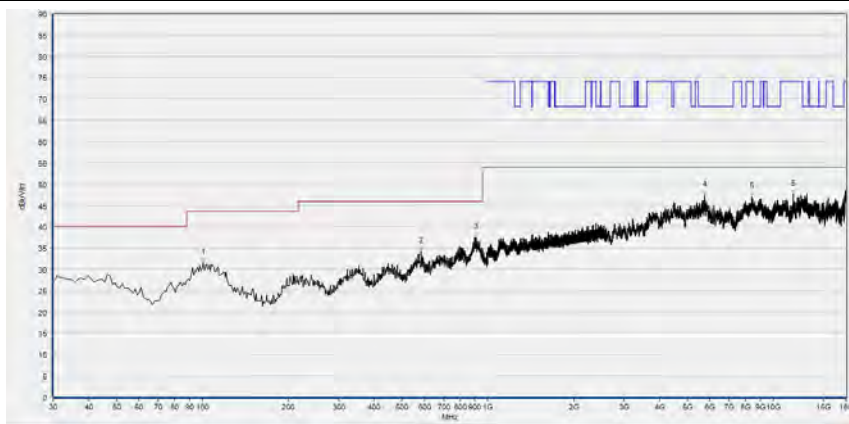
(Antenna Vertical, 30MHz to 18GHz)

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
98.939	31.02	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
580.541	34.39	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
905.816	36.57	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5631.326	46.42	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8428.526	47.21	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12156.071	47.33	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

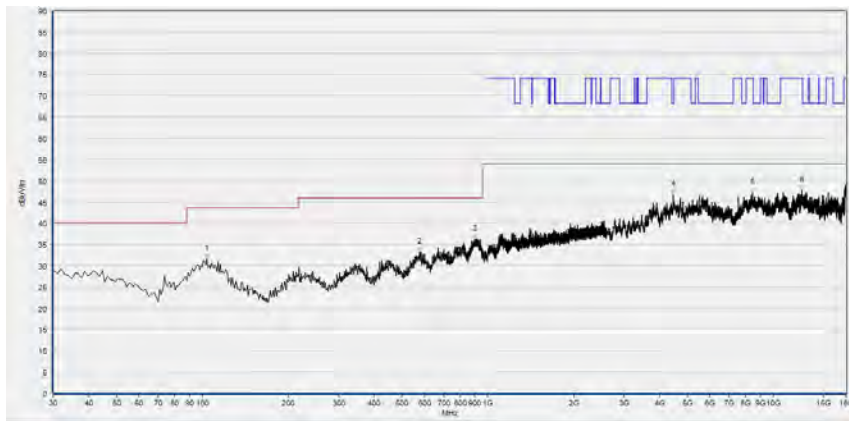
(Antenna Horizontal, 30MHz to 18GHz)



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
100.881	31.45	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
583.453	34.11	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
910.671	37.50	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5748.390	47.40	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8428.526	47.13	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
11749.430	47.58	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

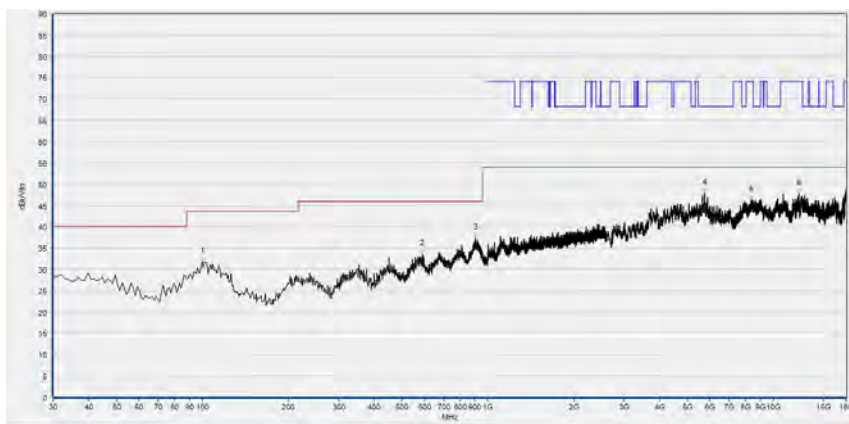
(Antenna Vertical, 30MHz to 18GHz)

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
103.794	31.54	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
575.686	33.25	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
898.048	36.24	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
4469.934	46.68	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8453.171	47.15	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12618.164	47.83	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
99.910	31.80	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
589.279	33.51	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
901.932	37.42	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5745.309	48.00	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8354.591	46.18	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12288.538	47.82	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	2022.03.03	2023.03.02
LISN	8127449	NSLK 8127	Schwarzbeck	2022.03.03	2023.03.02
Pulse Limiter (10dB)	VTSD 9561 F-B #206	VTSD 9561-F	Schwarzbeck	2022.07.06	2023.07.05
Coaxial Cable(BNC) (30MHz-26GHz)	CB01	EMC01	Morlab	N/A	N/A
mobile phone	N/A	PLK-AL10	HONOR	N/A	N/A

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	2022.07.06	2023.07.05
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2022.05.25	2025.05.24
Test Antenna - Horn	BBHA9170 #774	BBHA 9170	Schwarzbeck	2022.02.11	2025.02.10
Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2022.07.13	2025.07.12
Test Antenna - Horn	01774	BBHA 9120D	Schwarzbeck	2022.07.14	2025.07.13
Coaxial Cable (N male) (9KHz-30MHz)	CB04	EMC04	Morlab	N/A	N/A
Coaxial Cable (N male) (30MHz-26GHz)	CB02	EMC02	Morlab	N/A	N/A
Coaxial Cable (N male) (30MHz-26GHz)	CB03	EMC03	Morlab	N/A	N/A
Coaxial Cable (N male) (30MHz-40GHz)	CB05	EMC05	Morlab	N/A	N/A
1-18GHz pre-Amplifier	61171/61172	S020180L32 03	Tonscend	2022.07.08	2023.07.07
18-26.5GHz pre-Amplifier	46732	S10M100L38 02	Tonscend	2022.07.08	2023.07.07
26-40GHz pre-Amplifier	56774	S40M400L40 02	Tonscend	2022.07.08	2023.07.07
Notch Filter	N/A	WRCG-5150-5350	Wainwright	2022.07.08	2023.07.07
Notch Filter	N/A	WRCG-5470-5725	Wainwright	2022.07.08	2023.07.07
Notch Filter	N/A	WRCG-5725-5850	Wainwright	2022.07.08	2023.07.07



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Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Anechoic Chamber	N/A	9m*6m*6m	CRT	2020.01.06	2023.01.05

————— END OF REPORT —————