



(Channel 126, 5630 MHz, 802.11n (HT40))



(Channel 142, 5710MHz, 802.11n (HT40))



(Channel 142, 5710MHz, 802.11n (HT40))



(Channel 151, 5755MHz, 802.11n (HT40))



(Channel 159, 5795MHz, 802.11n (HT40))

**802.11ac (VHT20) Mode****A. Test Verdict:**

Channel	Frequency (MHz)	Measured PPSD (dBm/MHz)	Duty Factor	Corrected PPSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
36	5180	4.09	0.09	4.18	11	PASS
44	5220	4.08		4.17		
48	5240	4.20		4.29		
52	5260	4.06		4.15		
60	5300	4.39		4.48		
64	5320	4.59		4.68		
100	5500	3.87		3.96		
120	5600	4.46		4.55		
144	5720	4.80		4.89		
Channel	Frequency (MHz)	Measured PPSD (dBm/500KHz)	Duty Factor	Corrected (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
144	5720	2.16	0.09	2.25	30	PASS
149	5745	2.20		2.29		
157	5785	1.89		1.98		
165	5825	2.24		2.33		

B. Test Plot:



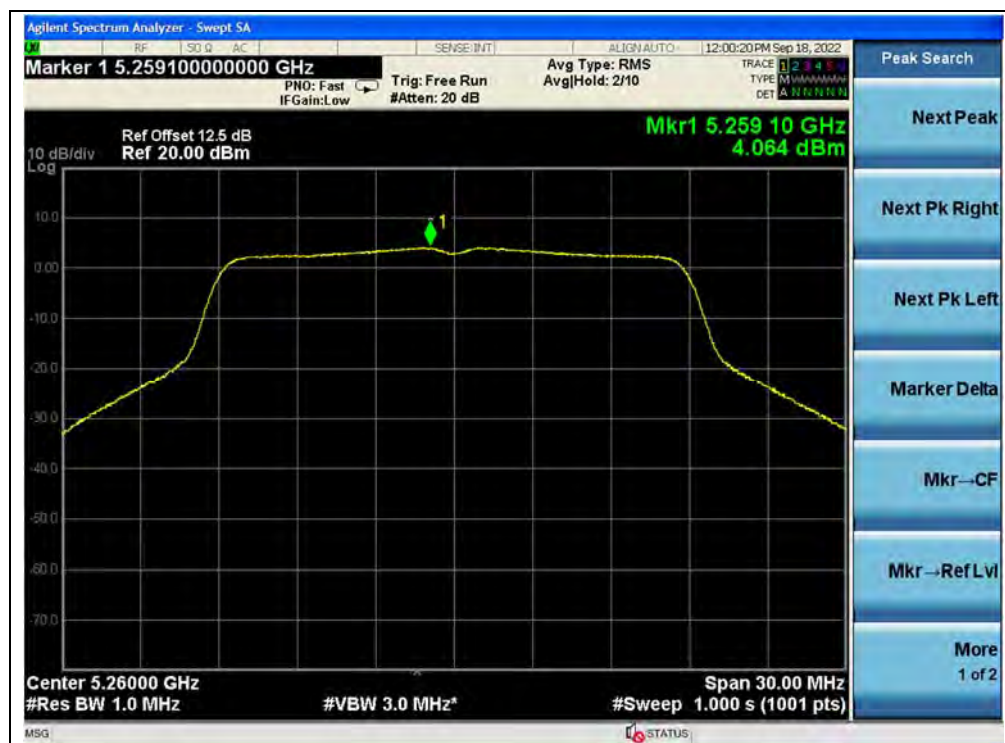
(Channel 36, 5180MHz, 802.11ac (VHT20))



(Channel 44, 5220MHz, 802.11ac (VHT20))



(Channel 48, 5240MHz, 802.11ac (VHT20))



(Channel 52, 5260MHz, 802.11ac (VHT20))



(Channel 60, 5300MHz, 802.11ac (VHT20))



(Channel 64, 5320MHz, 802.11ac (VHT20))



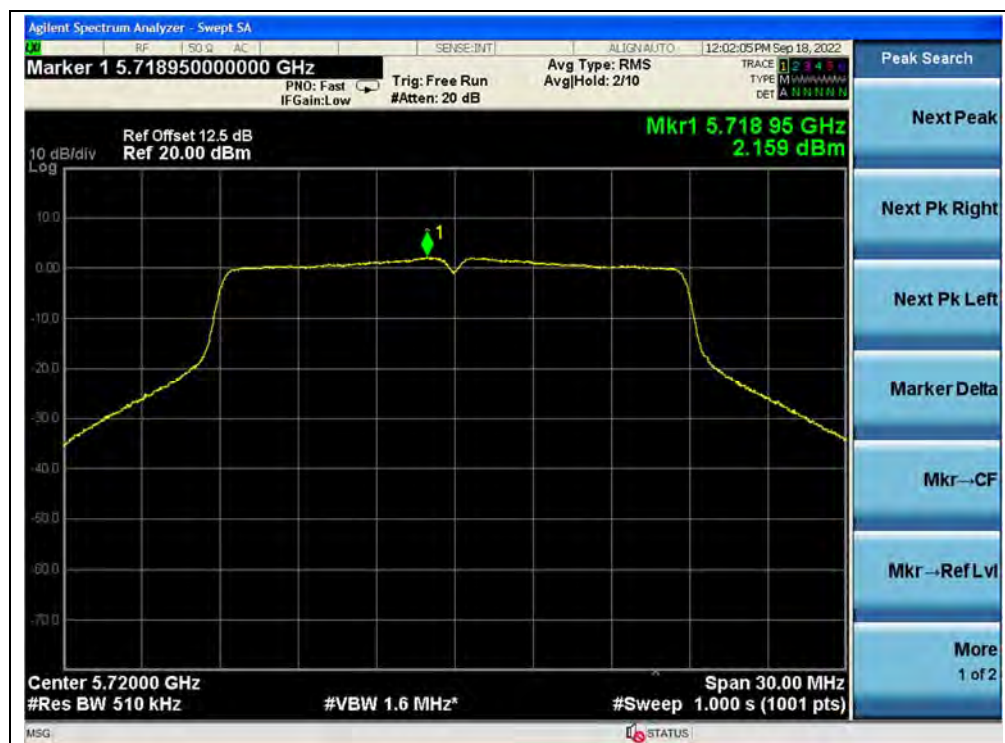
(Channel 100, 5500MHz, 802.11ac (VHT20))



(Channel 120, 5600MHz, 802.11ac (VHT20))



(Channel 144, 5720MHz, 802.11ac (VHT20))



(Channel 144, 5720MHz, 802.11ac(VHT20))



(Channel 149, 5745MHz, 802.11ac (VHT20))



(Channel 157, 5785MHz, 802.11ac (VHT20))



(Channel 165, 5825MHz, 802.11ac (VHT20))



802.11ac (VHT40) Mode

A. Test Verdict:

Channel	Frequency (MHz)	Measured PSD (dBm/MHz)	Duty Factor	Corrected PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
38	5190	-0.02	0.16	0.14	11	PASS
46	5230	0.03		0.19		
54	5270	-0.16		0.00		
62	5310	0.21		0.37		
102	5510	0.45		0.61		
126	5630	0.21		0.37		
142	5710	0.66		0.82		
Channel	Frequency (MHz)	Measured PSD (dBm/500KHz)	Duty Factor	Corrected (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
142	5710	0.71	0.16	0.87	30	PASS
151	5755	-2.29		-2.13		
155	5795	-1.98		-1.82		

B. Test Plot:



(Channel 38, 5190MHz, 802.11ac (VHT40))



(Channel 46, 5230MHz, 802.11ac (VHT40))



(Channel 54, 5270MHz, 802.11ac (VHT40))



(Channel 62, 5310MHz, 802.11ac (VHT40))



(Channel 102, 5510MHz, 802.11ac (VHT40))



(Channel 126, 5630MHz, 802.11ac (VHT40))



(Channel 142, 5710MHz, 802.11ac (VHT40))



(Channel 142, 5710MHz, 802.11ac (VHT40))



(Channel 151, 5755MHz, 802.11ac (VHT40))



(Channel 159, 5795MHz, 802.11ac (VHT40))



802.11ac (VHT80) Mode

A. Test Verdict:

Channel	Frequency (MHz)	Measured PSD (dBm/MHz)	Duty Factor	Corrected PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
42	5210	-2.73	0.35	-2.38	11	PASS
58	5290	-2.58		-2.23		
106	5530	-2.87		-2.52		
122	5610	-2.47		-2.12		
138	5690	-1.76		-1.41		
Channel	Frequency (MHz)	Measured PSD (dBm/500KHz)	Duty Factor	Corrected (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
138	5690	-4.64	0.35	-4.29	30	PASS
155	5775	-5.07		-4.72		

B. Test Plot:



(Channel 42, 5210MHz, 802.11ac (VHT80))



(Channel 58, 5290MHz, 802.11ac (VHT80))



(Channel 106, 5530MHz, 802.11ac (VHT80))



(Channel 122, 5610MHz, 802.11ac (VHT80))



(Channel 138, 5690MHz, 802.11ac (VHT80))



(Channel 138, 5690MHz, 802.11ac (VHT80))



(Channel 155, 5775MHz, 802.11ac (VHT80))



2.6. Frequency Stability

2.6.1. Requirement

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

2.6.2. Test Procedure

The EUT was placed inside of an environmental chamber as the temperature in the chamber was varied between 5°C to 40°C. The temperature was incremented by 10° intervals and the unit was allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded. Data for the worst case channel is shown below.

2.6.3. Test Result

U-NII-1 (Ch. 36) 5180MHz				
VOLTAGE (%)	POWER (VDC)	TEMP (°C)	Fre. Dev. (kHz)	Deviation (ppm)
100%	5.00	+20(Ref)	24	4.633
100%		-30	23	4.440
100%		-20	25	4.826
100%		-10	22	4.247
100%		0	25	4.826
100%		+10	22	4.247
100%		+20	20	3.861
100%		+30	20	3.861
100%		+40	26	5.019
100%		+50	21	4.054
115%	5.75	+20	28	5.405
85%	4.25	+20	33	6.371



U-NII-2A (Ch. 52)				
5260MHz				
VOLTAGE (%)	POWER (VDC)	TEMP (°C)	Fre. Dev. (kHz)	Deviation (ppm)
100%	5.00	+20(Ref)	18	3.422
100%		-30	21	3.992
100%		-20	25	4.753
100%		-10	25	4.753
100%		0	26	4.943
100%		+10	17	3.232
100%		+20	25	4.753
100%		+30	26	4.943
100%		+40	22	4.183
100%		+50	25	4.753
115%	5.75	+20	19	3.612
85%	4.25	+20	21	3.992

U-NII-2C (Ch. 100)				
5500MHz				
VOLTAGE (%)	POWER (VDC)	TEMP (°C)	Fre. Dev. (kHz)	Deviation (ppm)
100%	5.00	+20(Ref)	21	3.818
100%		-30	32	5.818
100%		-20	25	4.545
100%		-10	22	4.000
100%		0	27	4.909
100%		+10	24	4.364
100%		+20	23	4.182
100%		+30	32	5.818
100%		+40	33	6.000
100%		+50	25	4.545
115%	5.75	+20	27	4.909
85%	4.25	+20	30	5.455



U-NII-3 (Ch. 149) 5745MHz				
VOLTAGE (%)	POWER (VDC)	TEMP (°C)	Fre. Dev. (kHz)	Deviation (ppm)
100%	5.00	+20(Ref)	22	3.829
100%		-30	26	4.526
100%		-20	25	4.352
100%		-10	21	3.655
100%		0	24	4.178
100%		+10	28	4.874
100%		+20	26	4.526
100%		+30	26	4.526
100%		+40	22	3.829
100%		+50	20	3.481
115%	5.75	+20	31	5.396
85%	4.25	+20	29	5.048

2.7. Conducted Emission

2.7.1. 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).

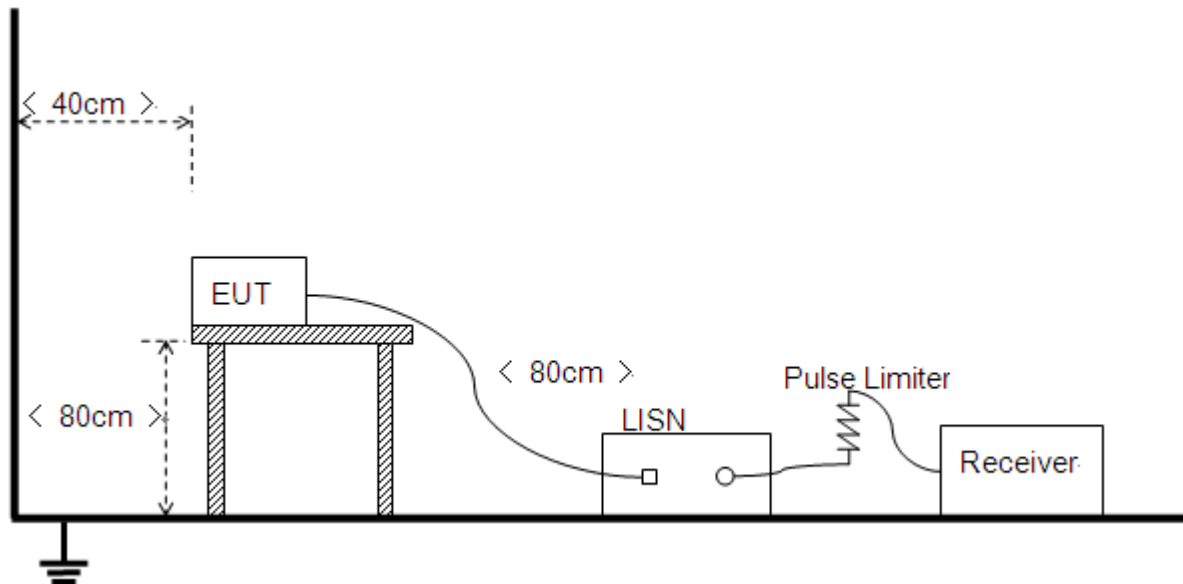
Frequency Range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

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.

2.7.2. 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.



2.7.3. 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+ BT TX

Test Voltage: AC 120V/60Hz

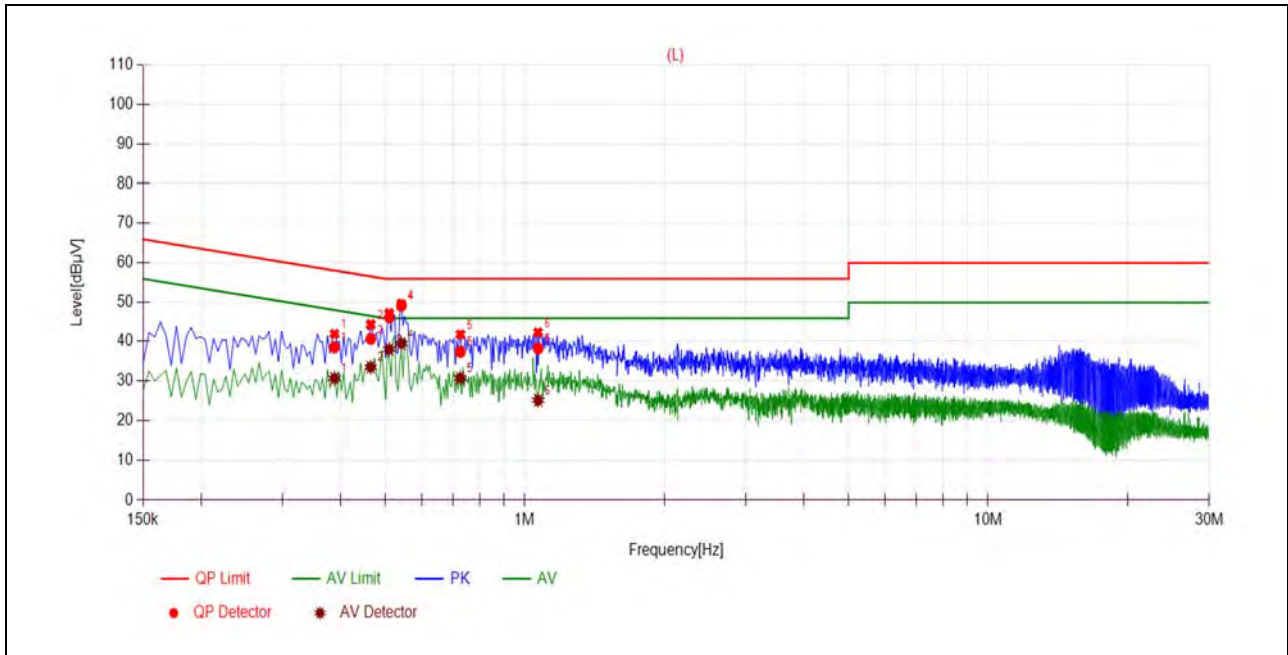
The measurement results are obtained as below:

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

U_R : Receiver Reading

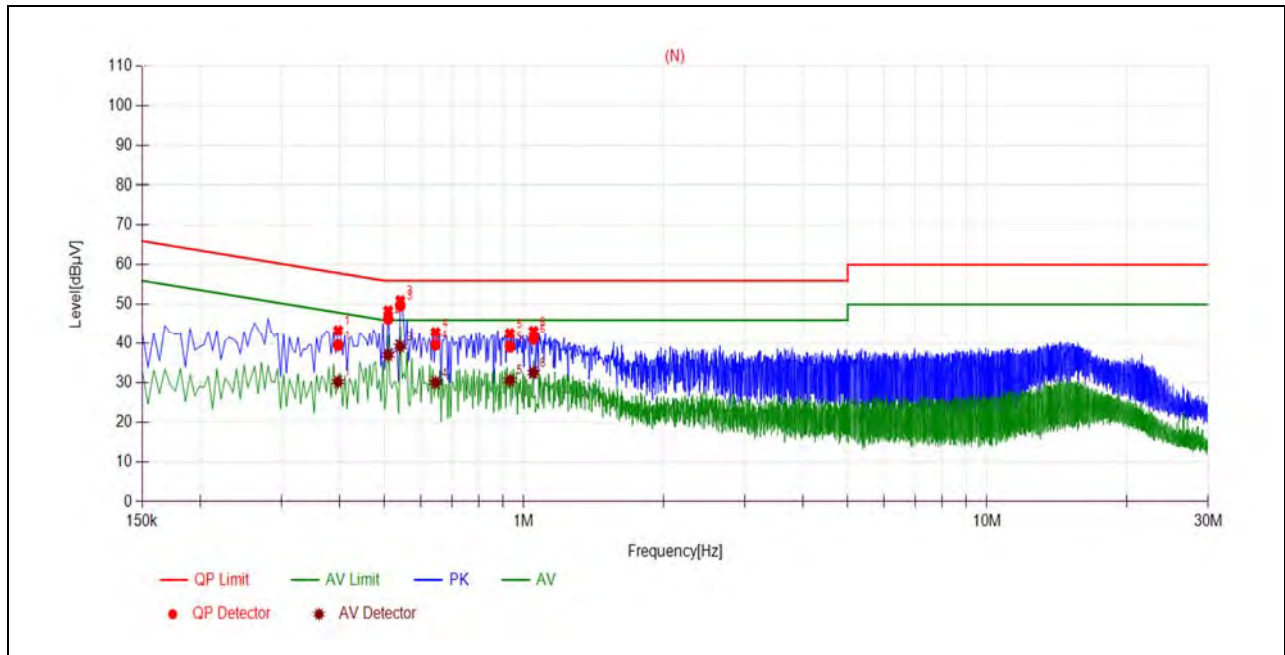
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.3882	38.45	30.62	58.10	48.10	Line	PASS
2	0.4650	40.56	33.40	56.60	46.60		PASS
3	0.5100	46.27	37.92	56.00	46.00		PASS
4	0.5415	49.22	39.36	56.00	46.00		PASS
5	0.7258	37.28	30.66	56.00	46.00		PASS
6	1.0687	38.13	25.06	56.00	46.00		PASS



(N Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.3973	39.52	30.19	57.91	47.91	Neutral	PASS
2	0.5096	46.37	36.99	56.00	46.00		PASS
3	0.5410	49.71	39.16	56.00	46.00		PASS
4	0.6444	39.62	30.03	56.00	46.00		PASS
5	0.9330	39.12	30.59	56.00	46.00		PASS
6	1.0497	41.15	32.54	56.00	46.00		PASS

2.8. Restricted Frequency Bands

2.8.1. 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

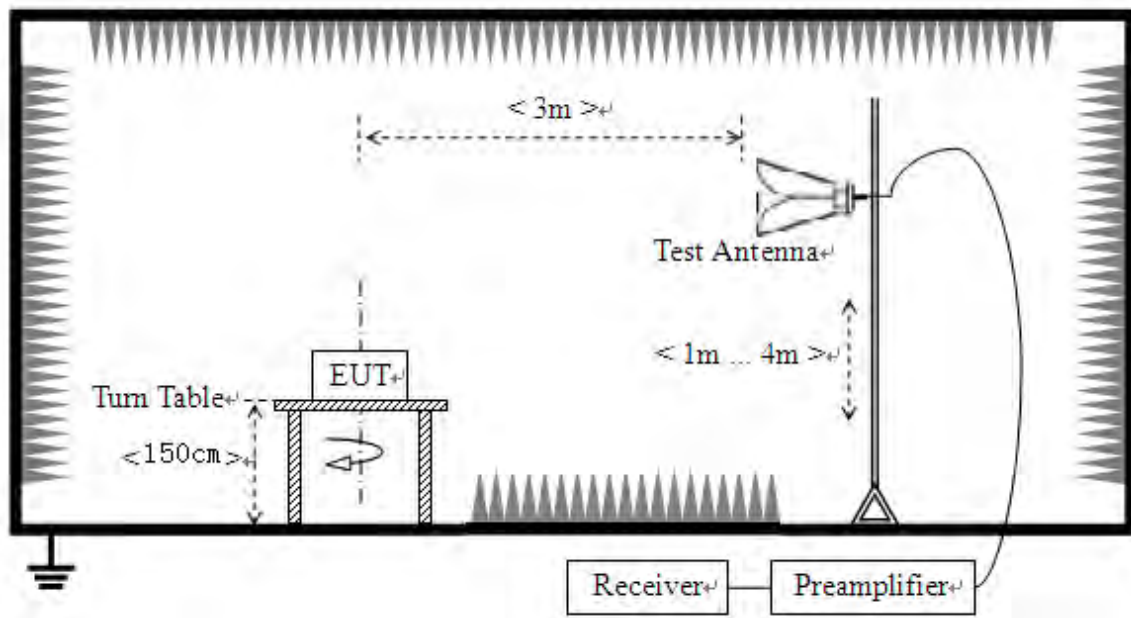
Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209. According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following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

Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
0.009 - 0.490	$2400/F(\text{kHz})$	300
0.490 - 1.705	$24000/F(\text{kHz})$	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).

2.8.2. 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.

2.8.3. Test Result

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

The measurement results are obtained as below:

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

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.

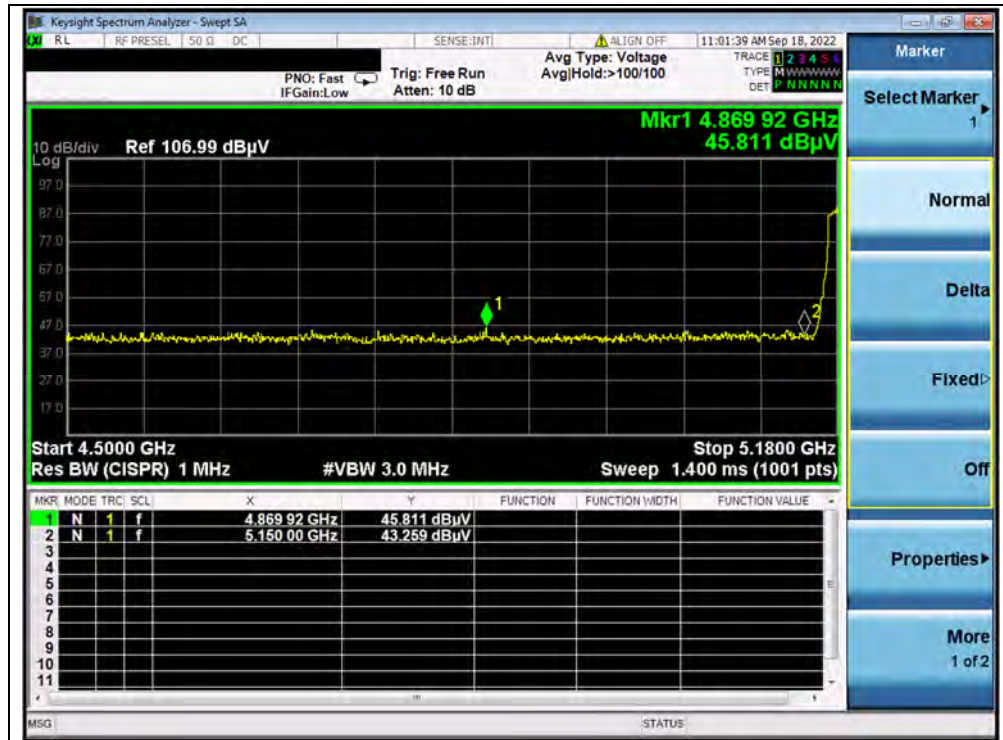
802.11a Mode

A.Test Verdict:

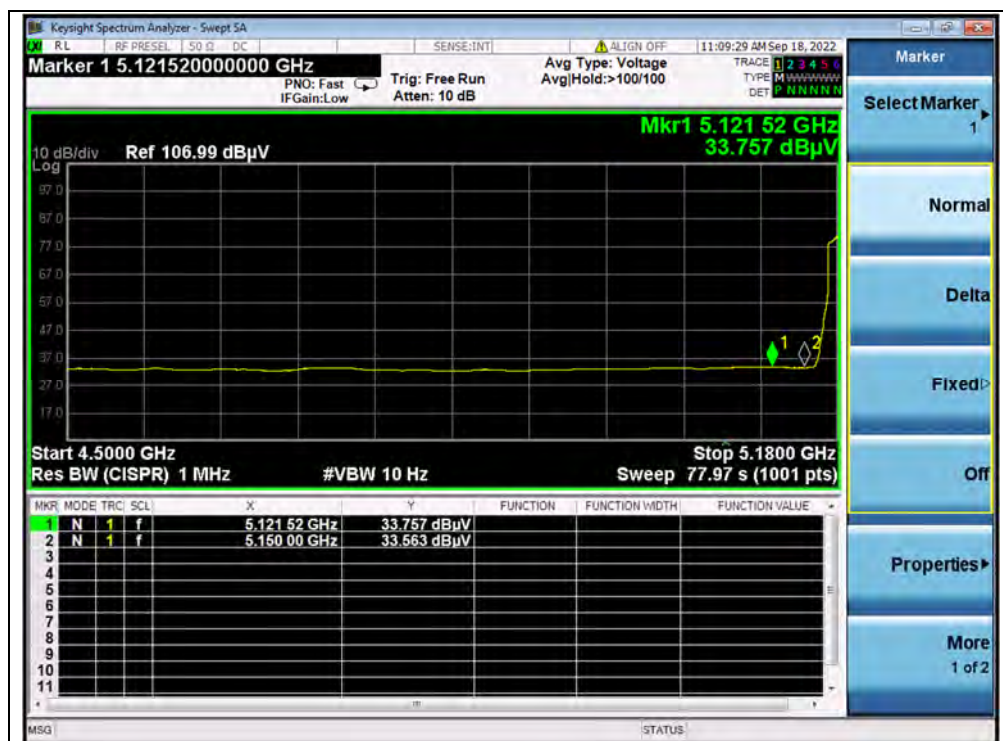
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
36	4869.92	PK	45.81	-19.54	32.20	58.47	74	PASS
36	5121.52	AV	33.76	-19.54	32.20	46.42	54	PASS
64	5388.88	PK	44.44	-18.80	32.20	57.84	74	PASS
64	5350.00	AV	32.74	-18.80	32.20	46.14	54	PASS
100	5213.18	PK	44.49	-19.20	32.20	57.49	68.23	PASS
100	5470.00	AV	32.65	-19.20	32.20	45.65	54	PASS
144	5929.00	PK	43.42	-19.20	32.20	56.42	68.23	PASS
149	5725.00	PK	44.99	-19.01	32.20	58.18	122.23	PASS
165	5880.00	PK	43.04	-19.01	32.20	56.23	101.53	PASS



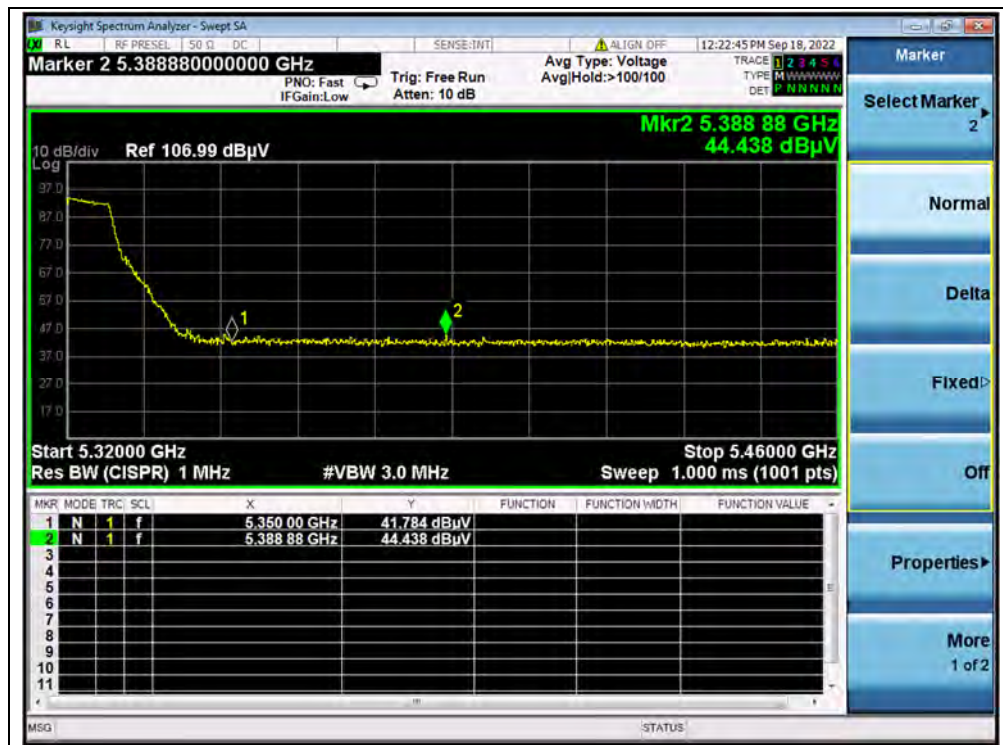
B.Test Plot:



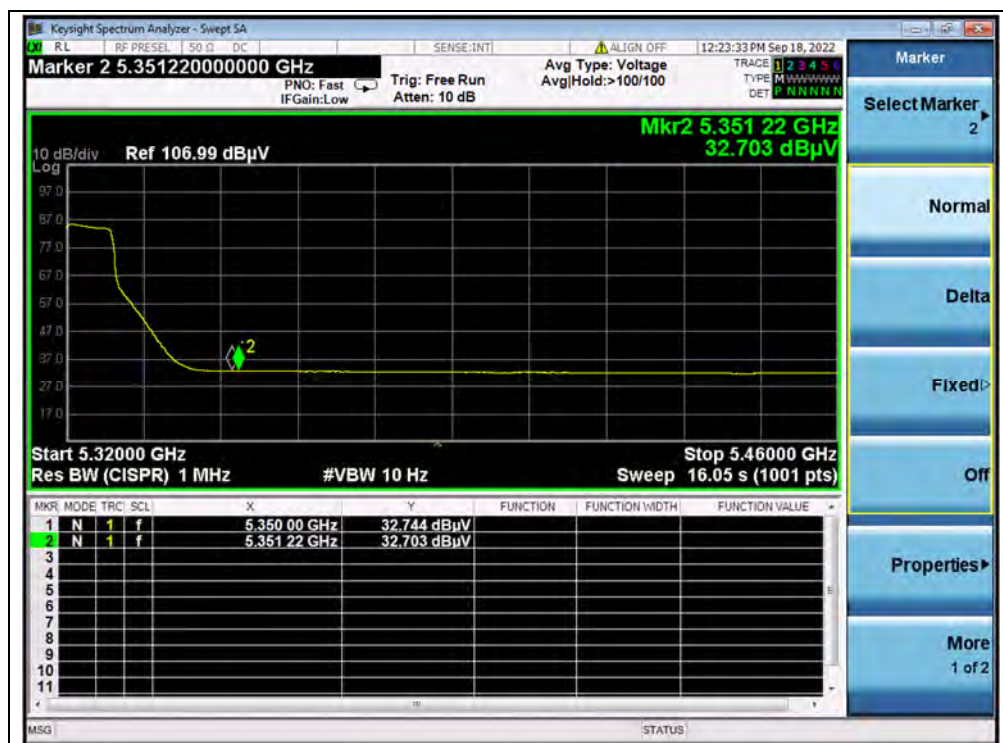
(PEAK, Channel 36, 802.11a)



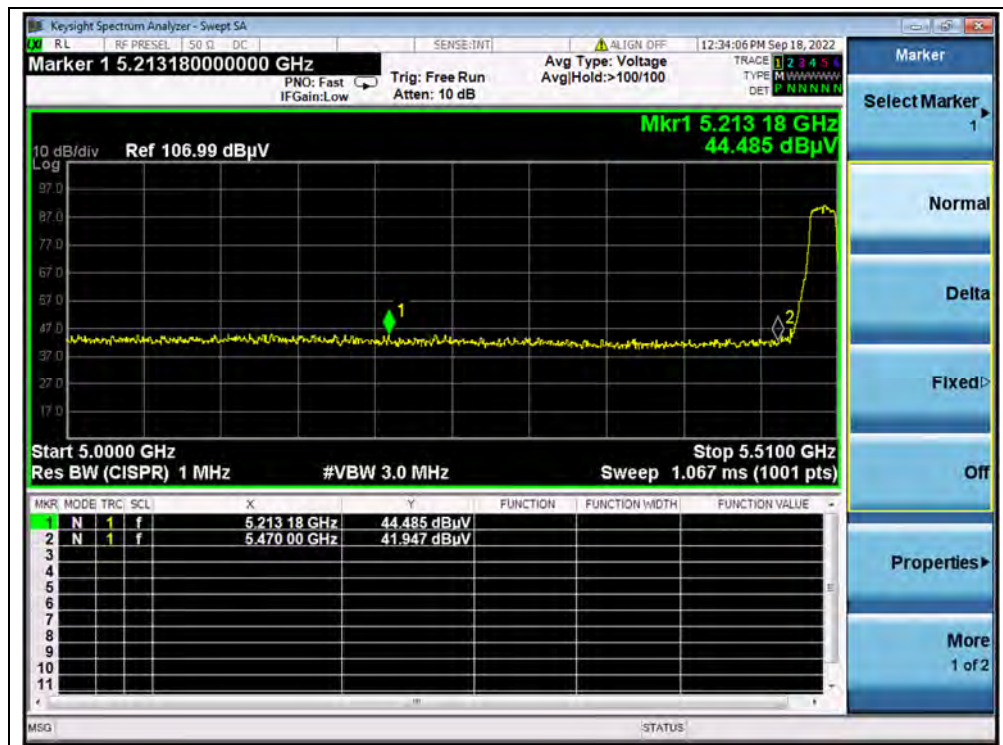
(AVERAGE, Channel 36, 802.11a)



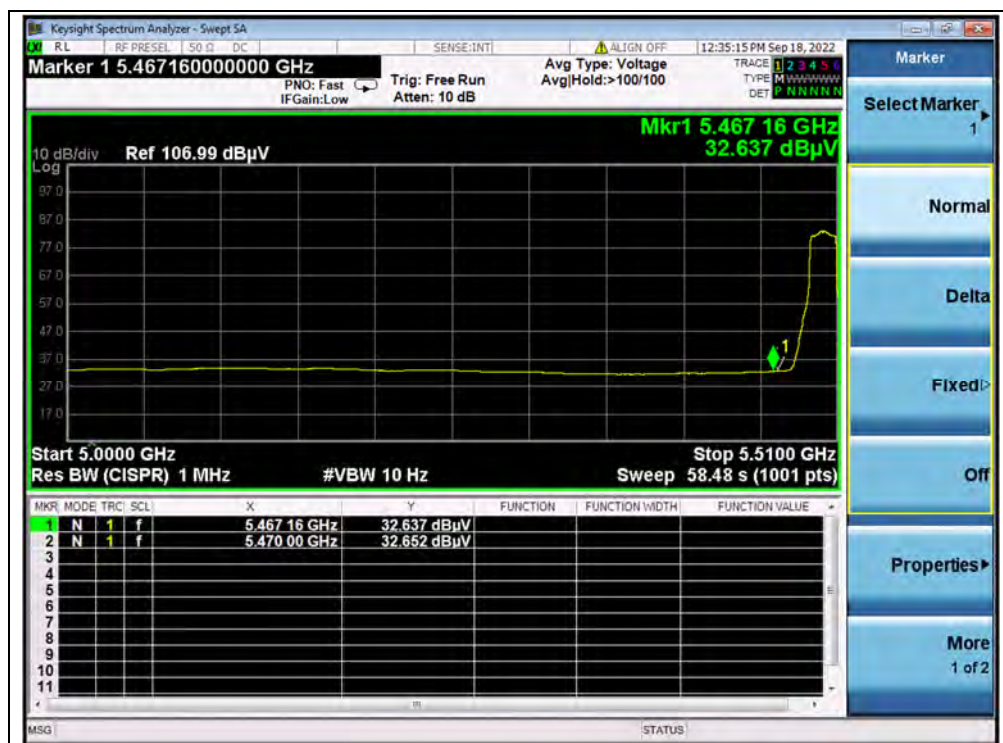
(PEAK, Channel 64, 802.11a)



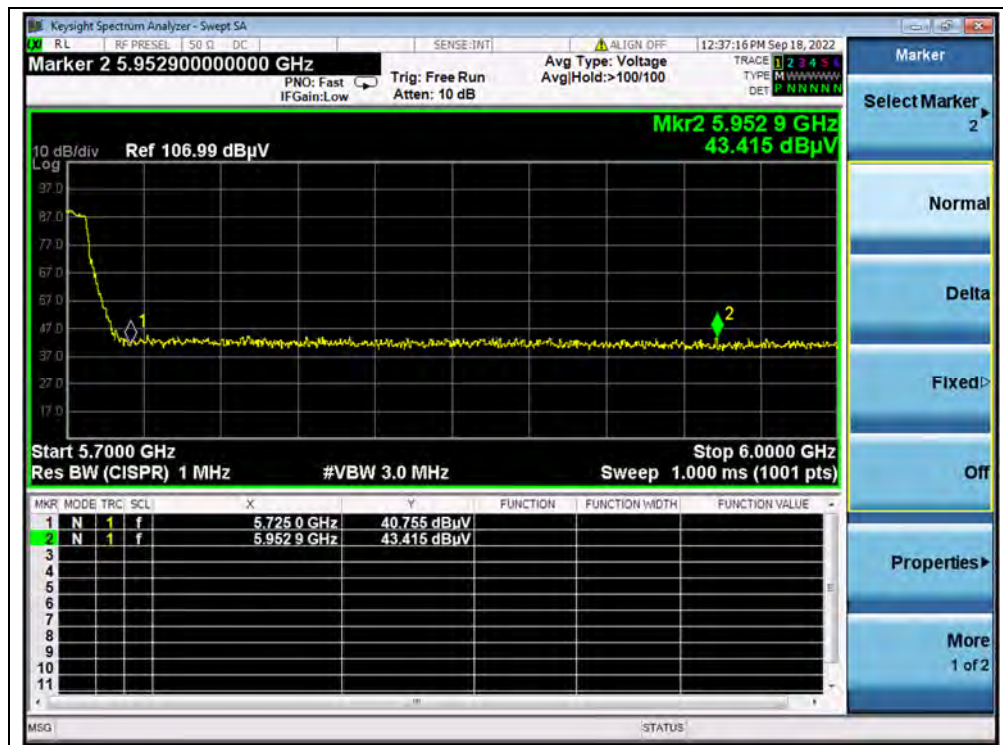
(AVERAGE, Channel 64, 802.11a)



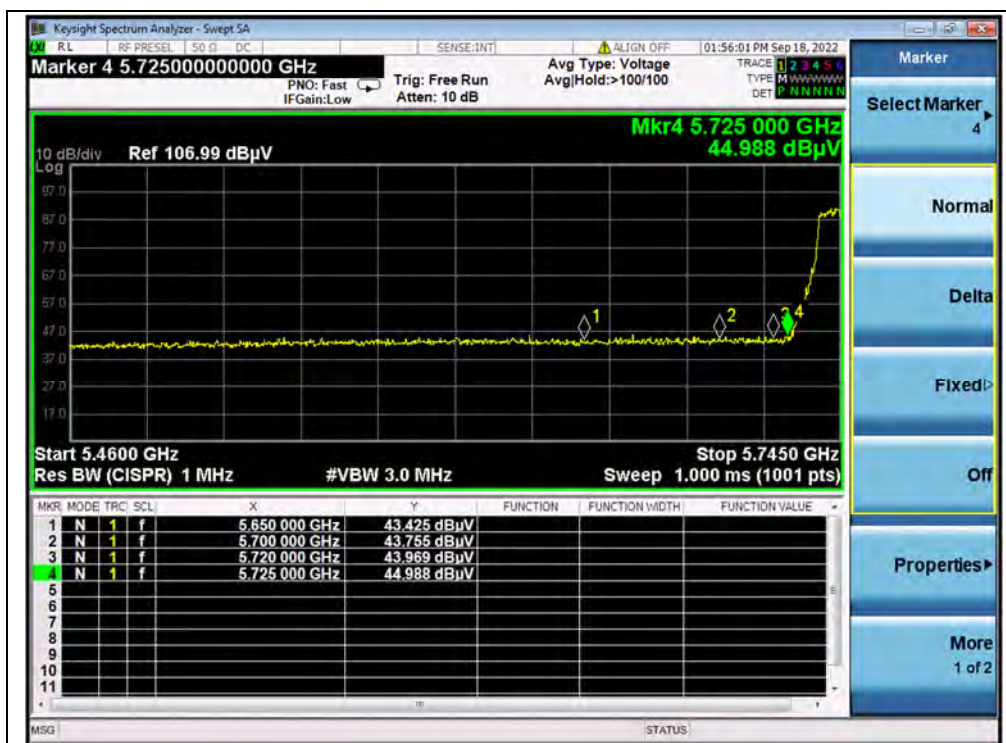
(PEAK, Channel 100, 802.11a)



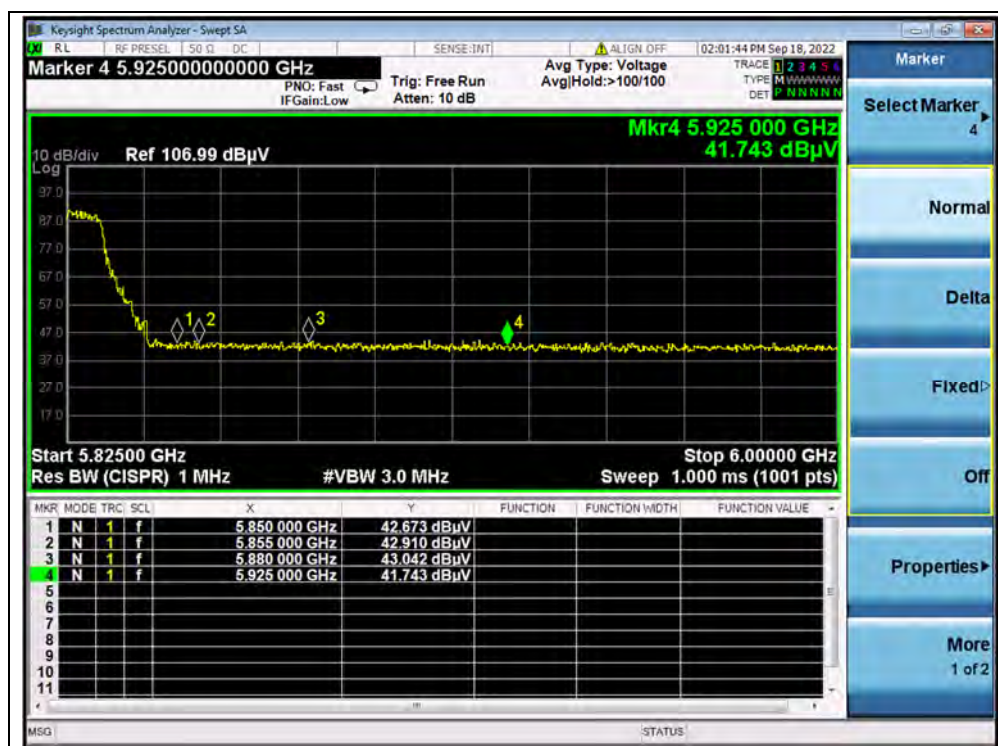
(AVERAGE, Channel 100, 802.11a)



(PEAK, Channel 144, 802.11a)



(PEAK, Channel 149, 802.11a)



(PEAK, Channel 165, 802.11a)

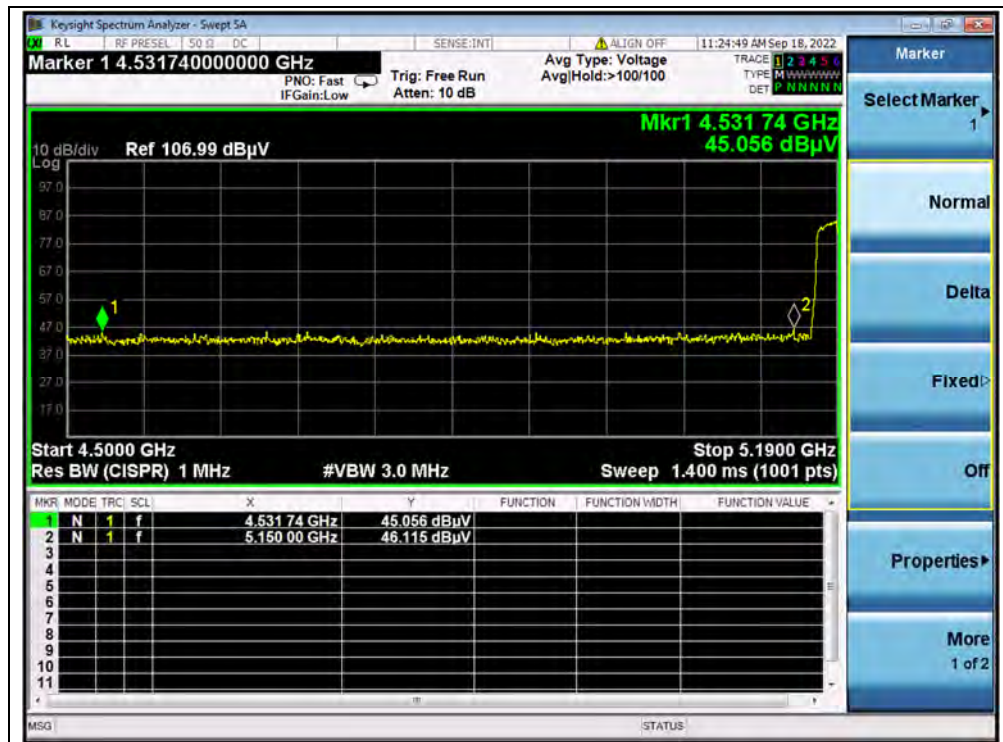


802.11n (HT40) Mode

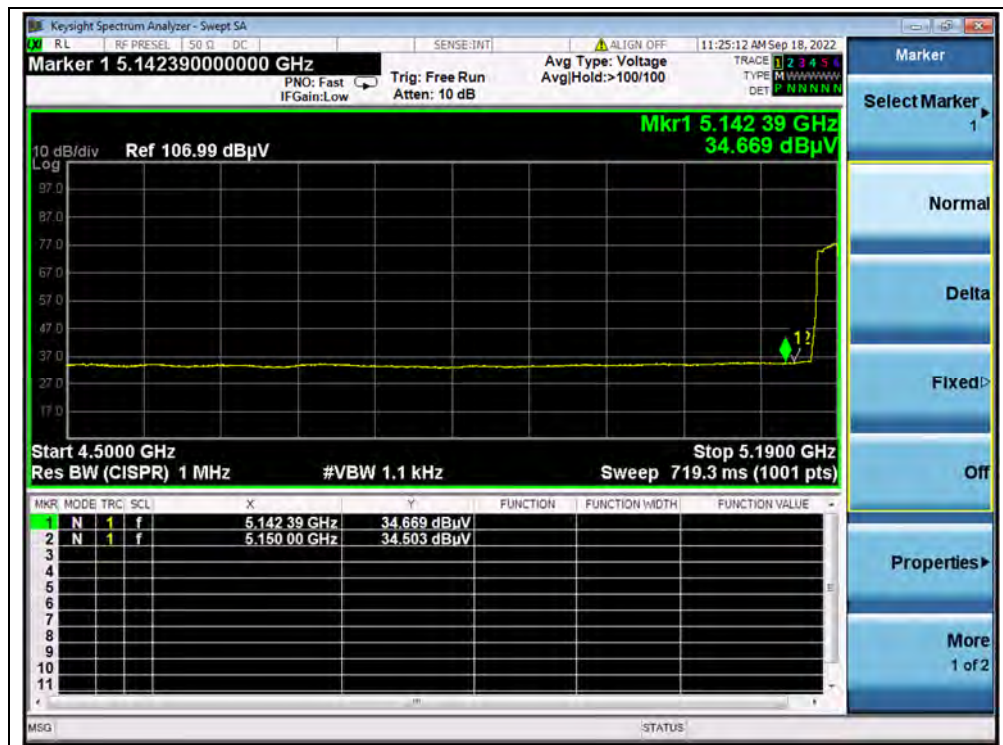
A.Test Verdict:

Channel	Frequency (MHz)	Detector	Receiver Reading 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						
38	5150.00	PK	46.12	-19.54	32.20	58.78	74	PASS
38	5142.39	AV	34.67	-19.54	32.20	47.33	54	PASS
62	5355.90	PK	44.57	-18.80	32.20	57.97	74	PASS
62	5350.00	AV	35.16	-18.80	32.20	48.56	54	PASS
102	5460.53	PK	44.89	-19.20	32.20	57.89	68.23	PASS
102	5466.65	AV	33.63	-19.20	32.20	46.63	54	PASS
142	5883.51	PK	43.46	-19.20	32.20	56.46	68.23	PASS
151	5720.00	PK	44.17	-19.01	32.20	57.36	110.83	PASS
159	5925.00	PK	42.90	-19.01	32.20	56.09	68.23	PASS

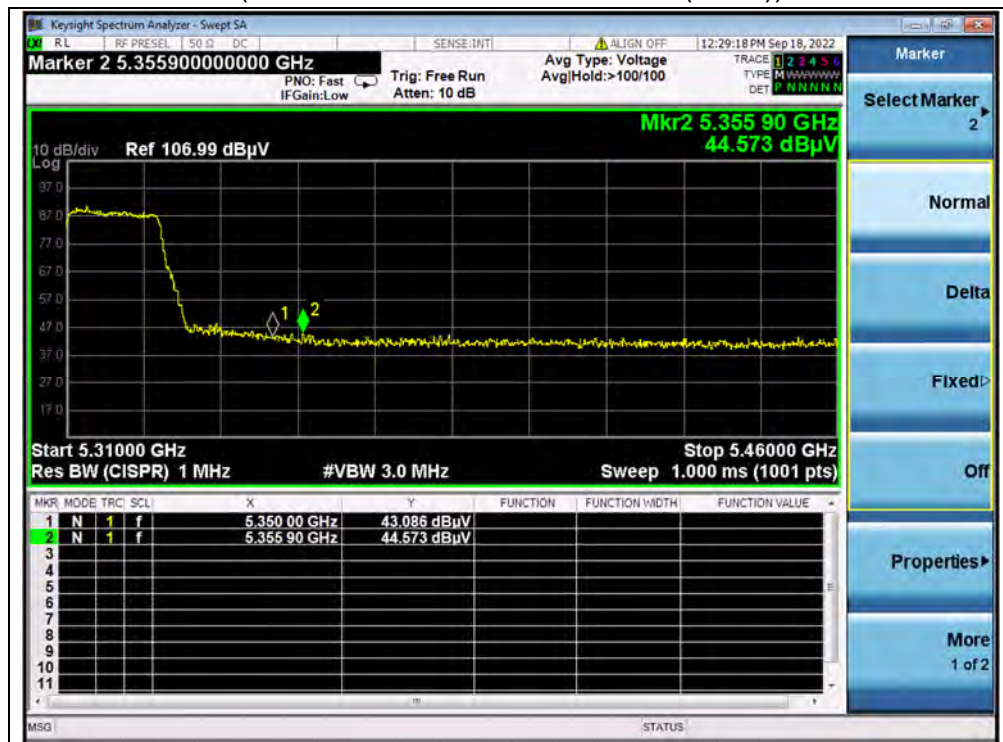
B.Test Plot:



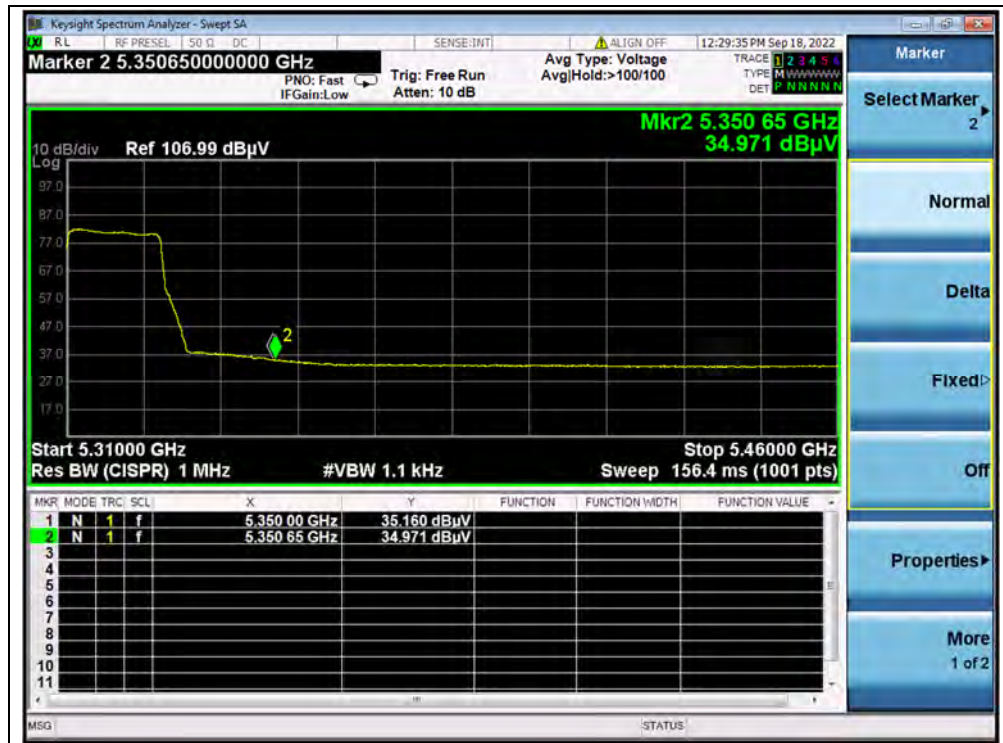
(PEAK, Channel 38, 802.11n (HT40))



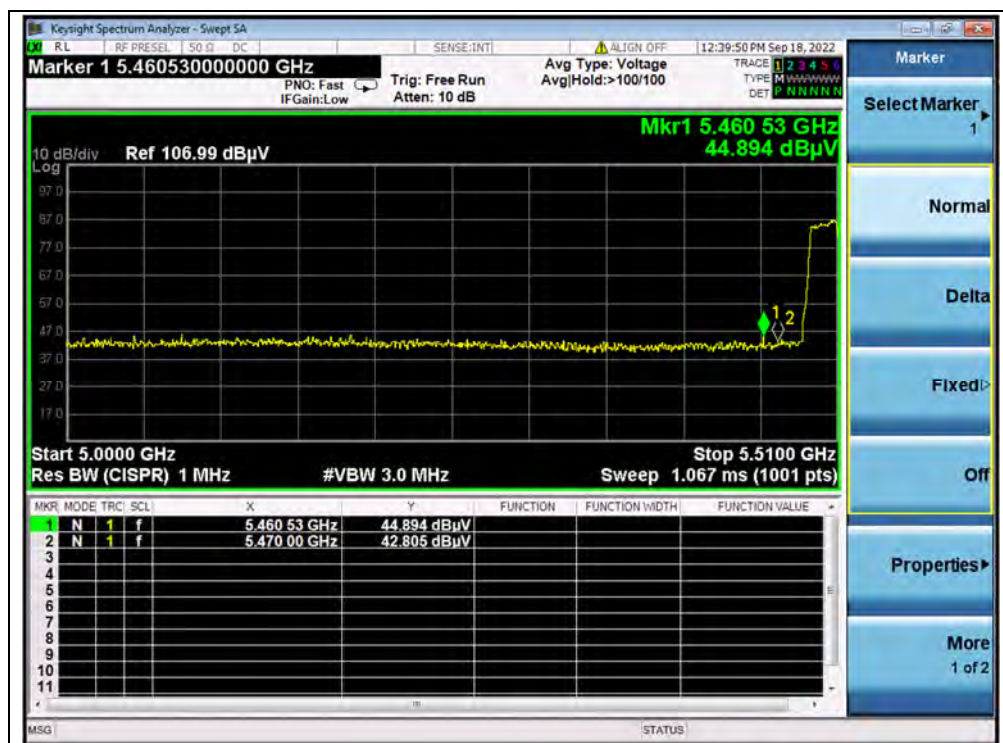
(AVERAGE, Channel 38, 802.11n (HT40))



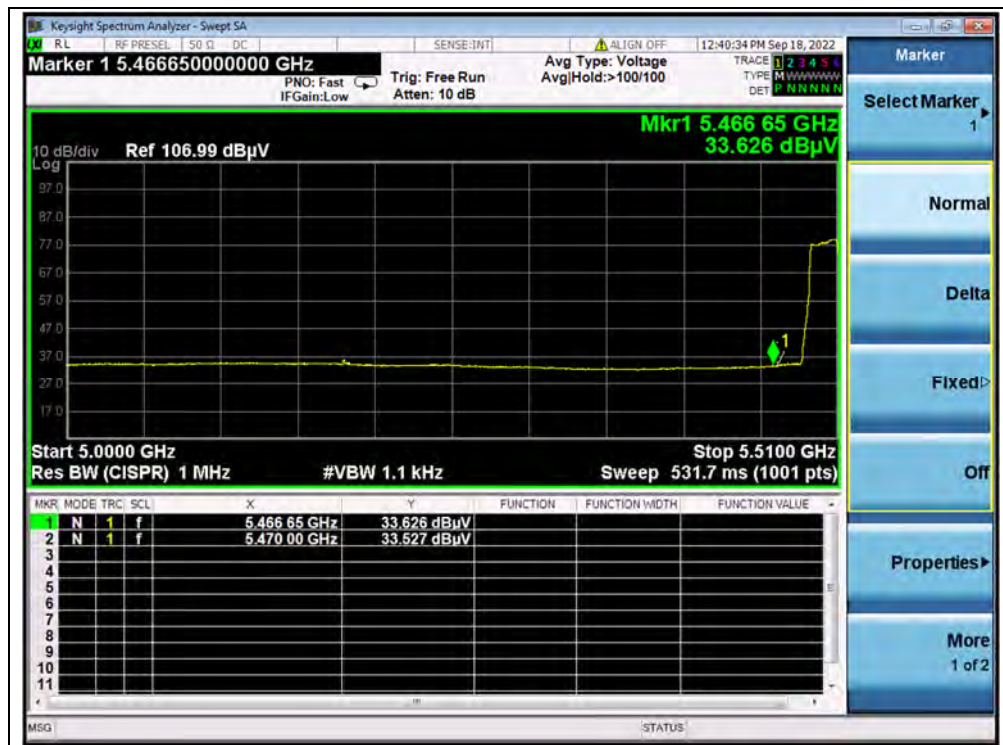
(PEAK, Channel 62, 802.11n (HT40))



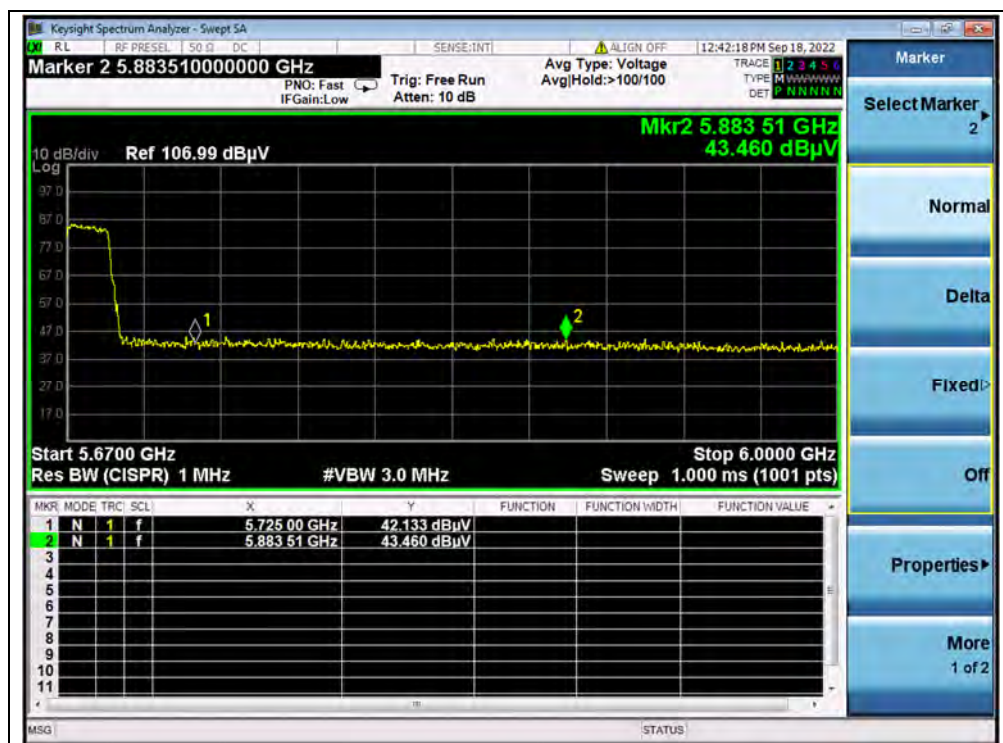
(AVERAGE, Channel 62, 802.11n (HT40))



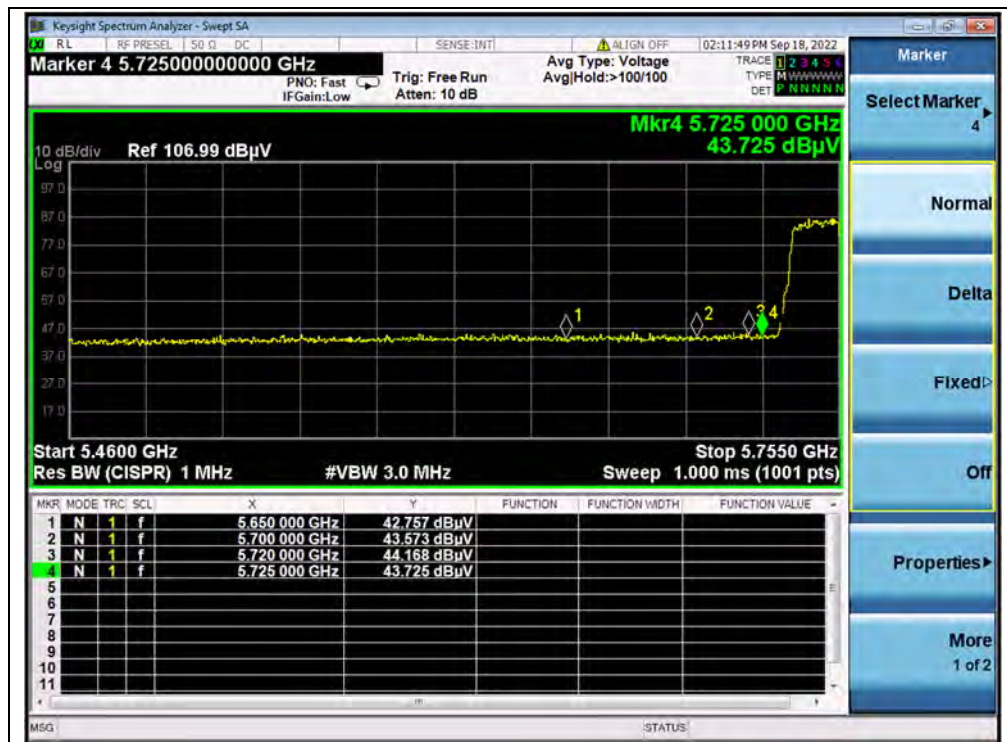
(PEAK, Channel 102, 802.11n (HT40))



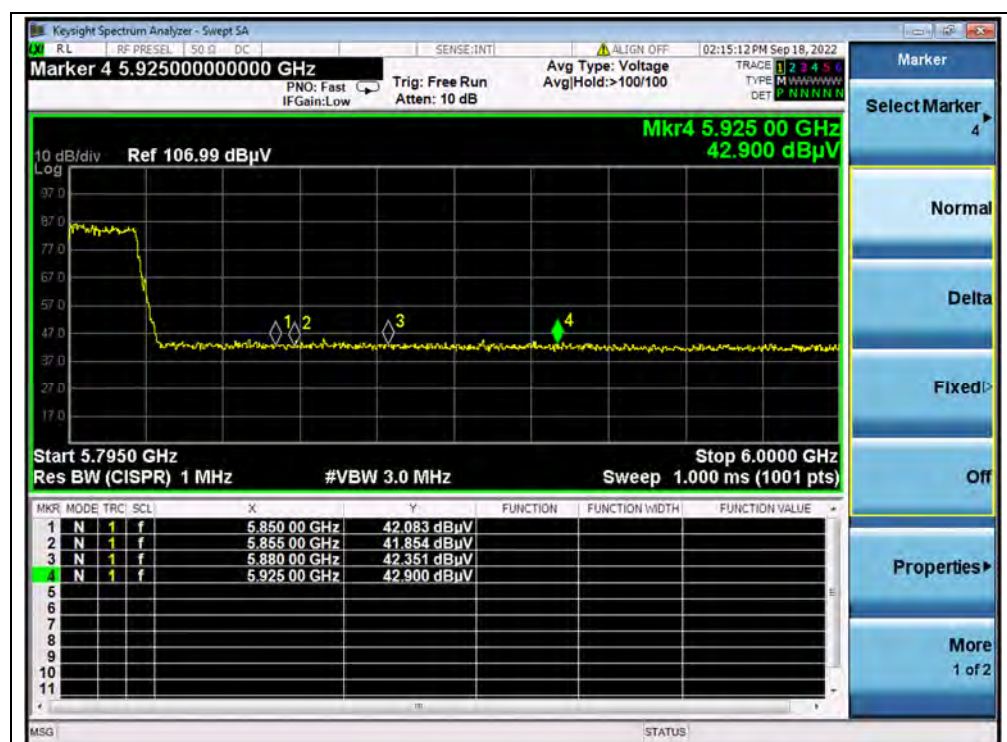
(AVERAGE, Channel 102, 802.11n (HT40))



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



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



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

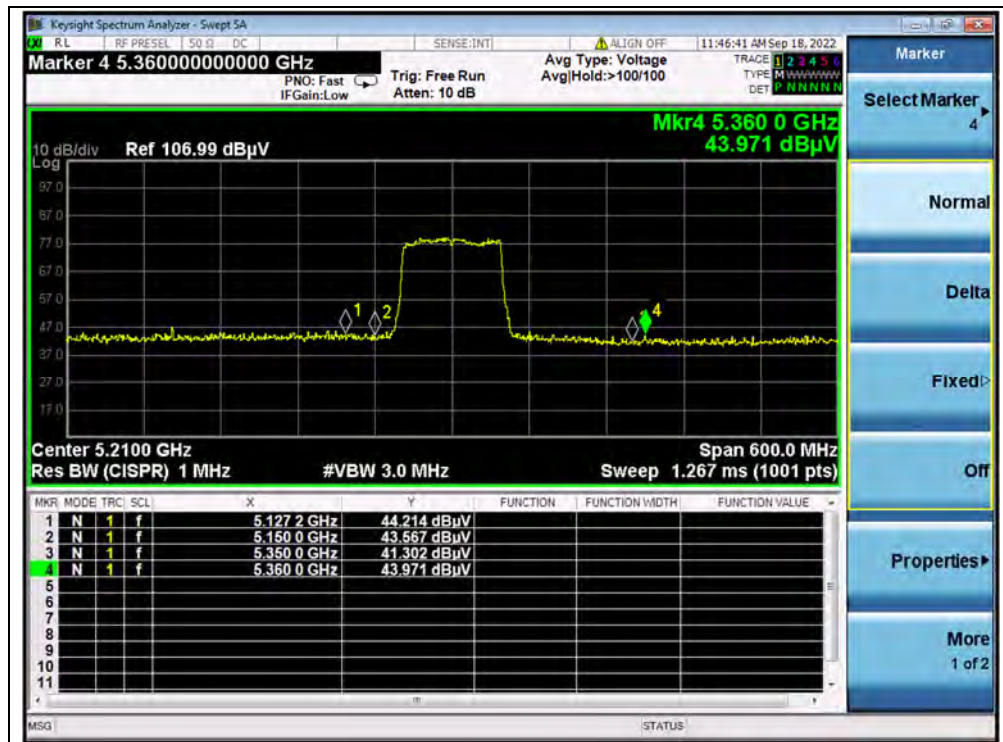


802.11ac (VHT80) Mode

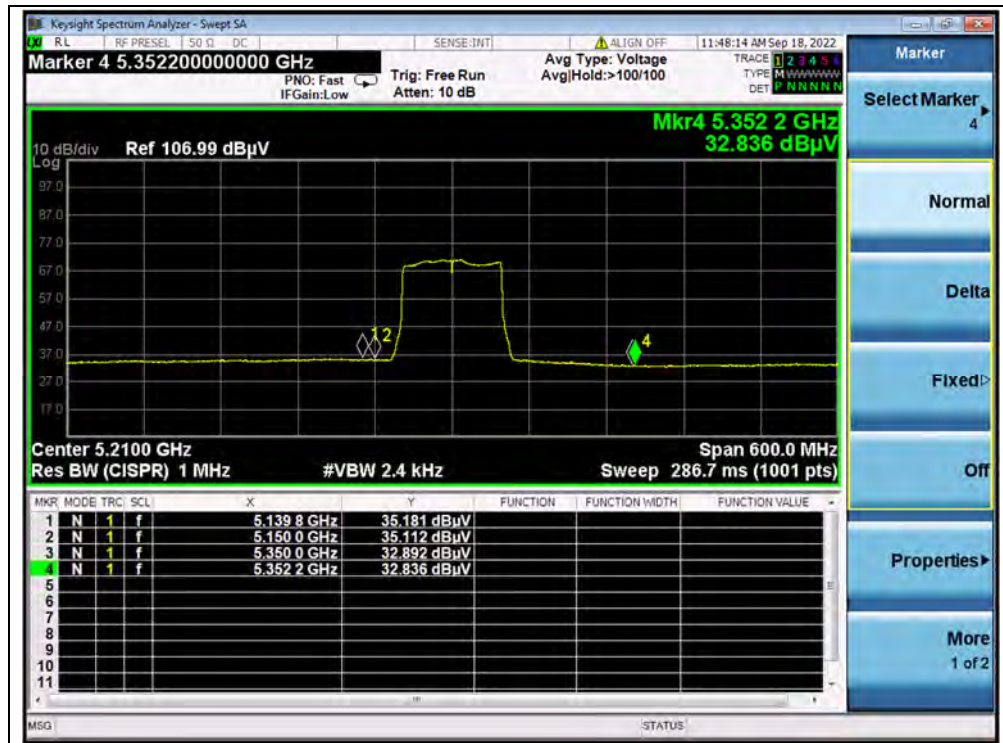
A.Test Verdict:

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	5127.20	PK	44.21	-19.54	32.20	56.87	74	PASS
42	5139.80	AV	35.18	-19.54	32.20	47.84	54	PASS
58	5101.60	PK	45.86	-18.80	32.20	59.26	74	PASS
58	5150.00	AV	35.17	-18.80	32.20	48.57	54	PASS
106	5259.70	PK	46.48	-19.20	32.20	59.48	68.23	PASS
106	5250.16	AV	34.78	-19.20	32.20	47.78	54	PASS
138	5737.92	PK	44.06	-19.20	32.20	57.06	68.23	PASS
155	5720.00	PK	44.19	-19.01	32.20	57.38	110.83	PASS
155	5855.00	PK	43.14	-19.01	32.20	56.33	110.83	PASS

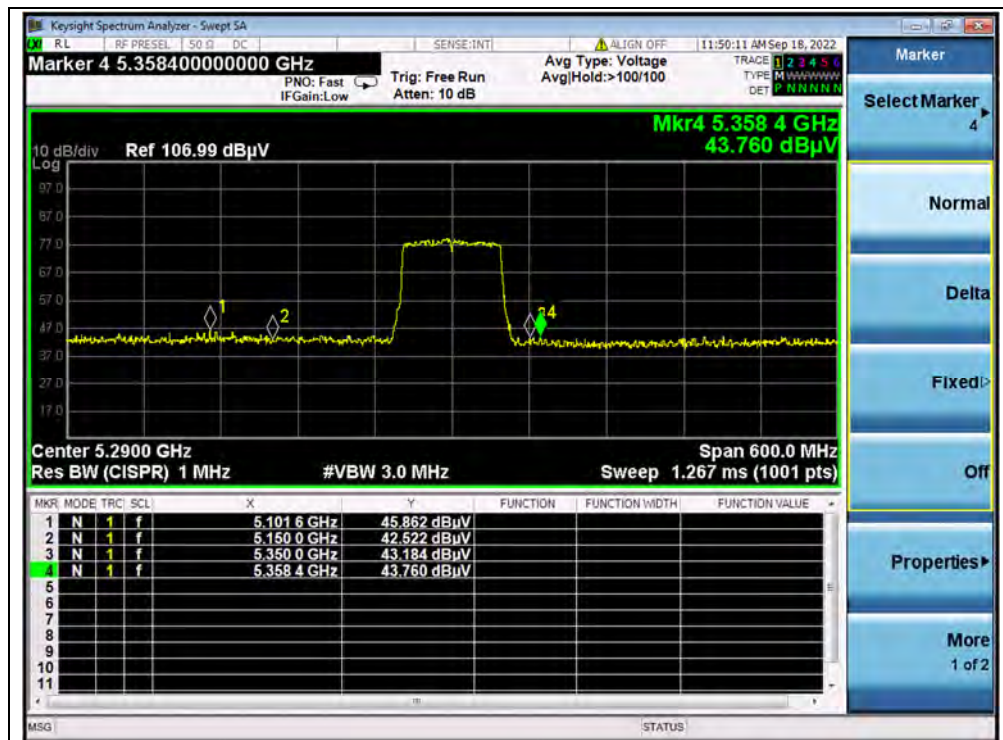
B.Test Plot:



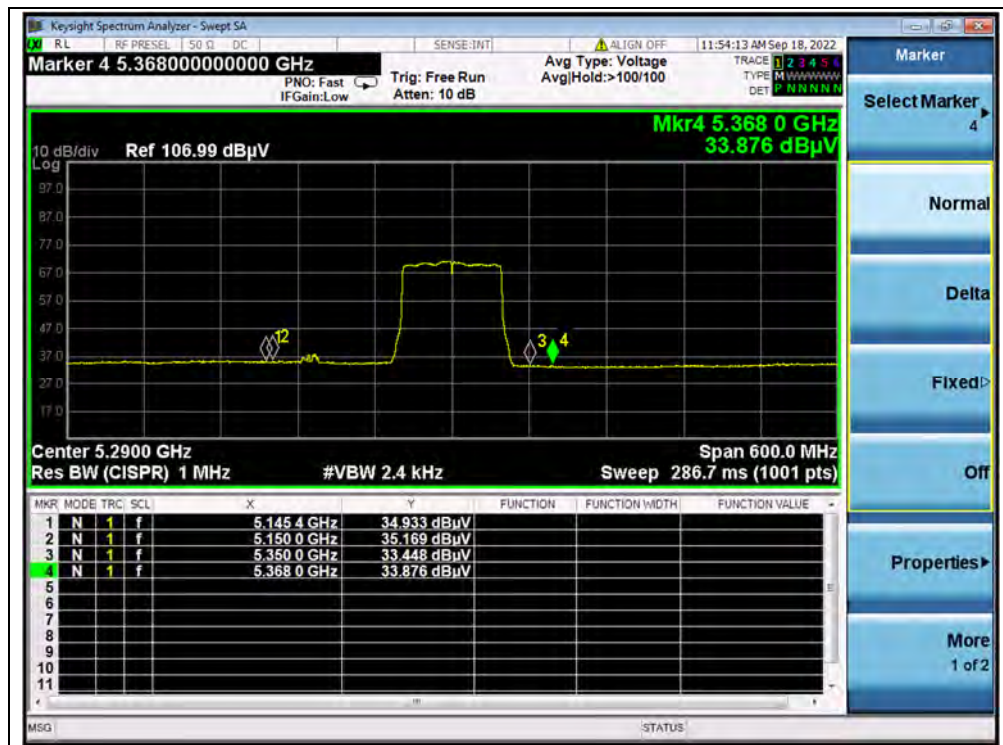
(PEAK, Channel 42, 802.11ac (VHT80))



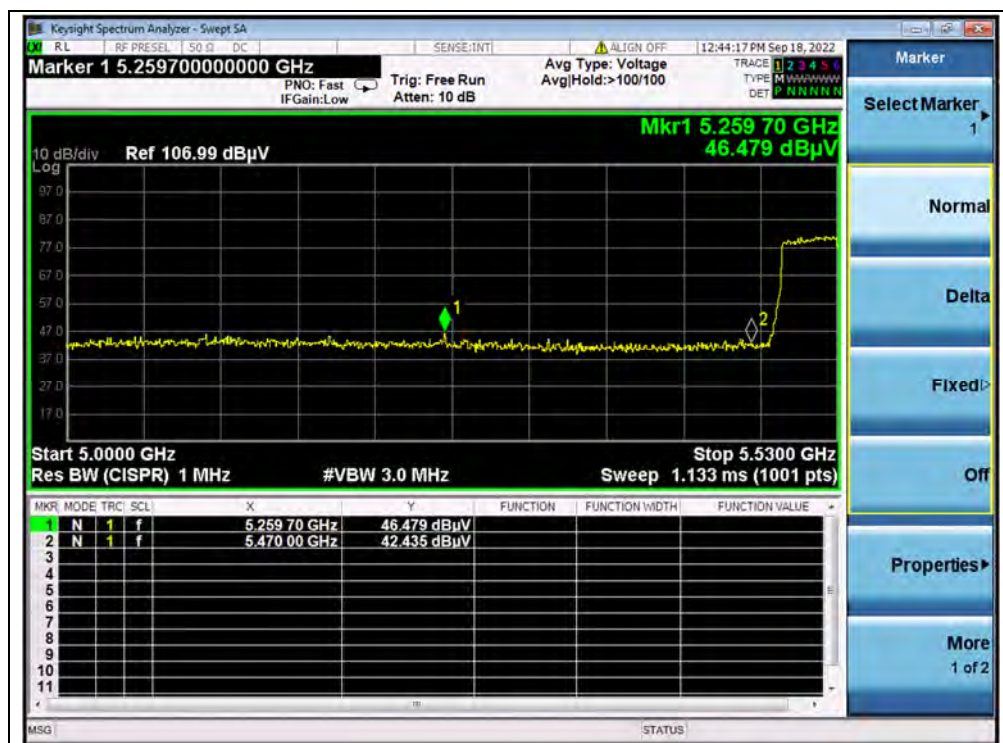
(AVERAGE, Channel 42, 802.11ac (VHT80))



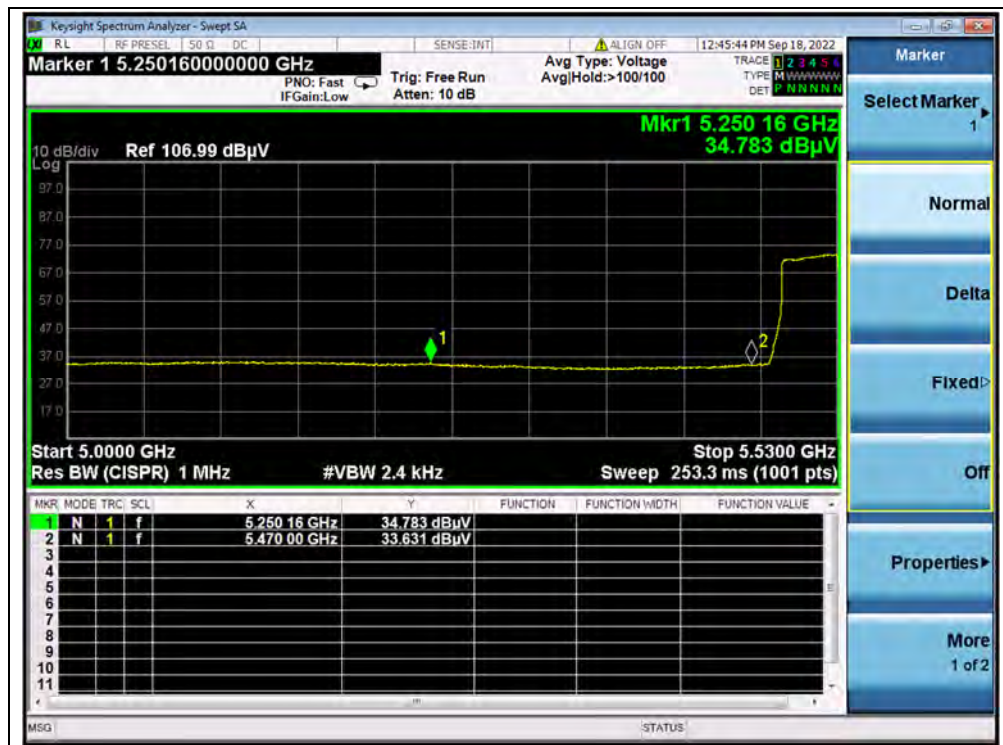
(PEAK, Channel 58, 802.11ac (VHT80))



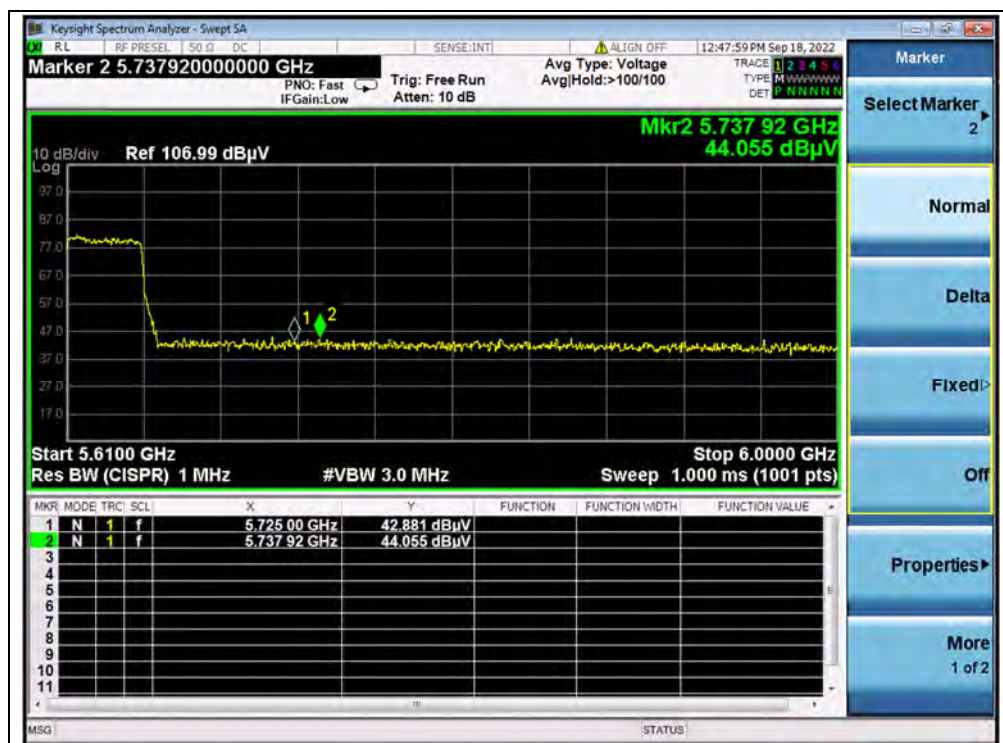
(AVERAGE, Channel 58, 802.11ac (VHT80))



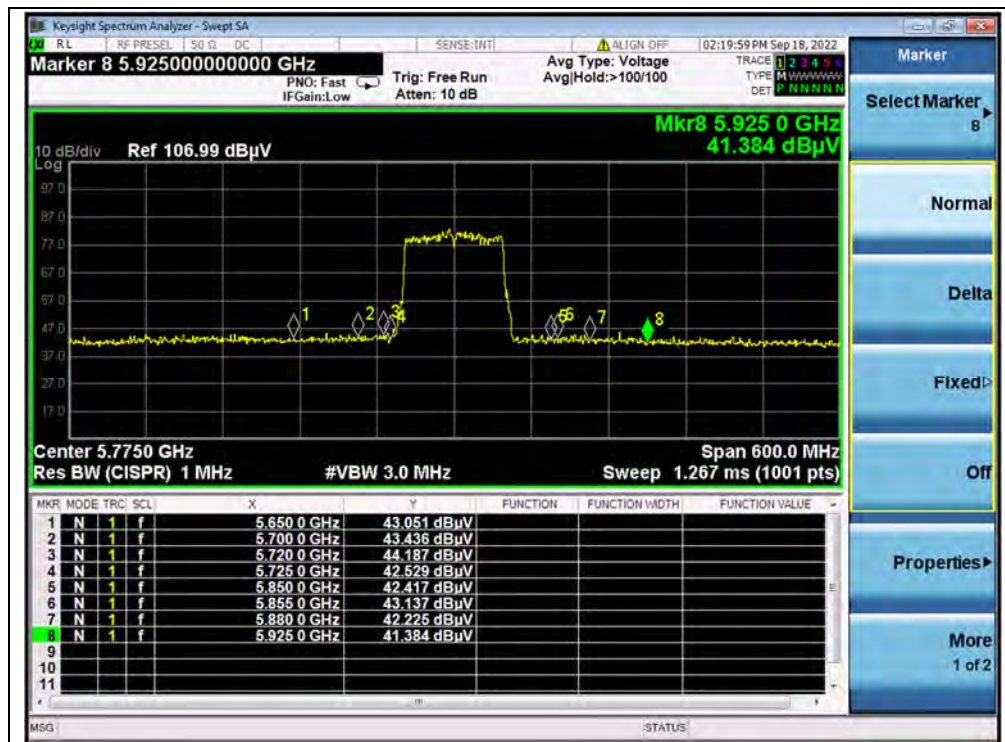
(PEAK, Channel 106, 802.11ac (VHT80))



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



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



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

2.9. Radiated Emission

2.9.1. 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:

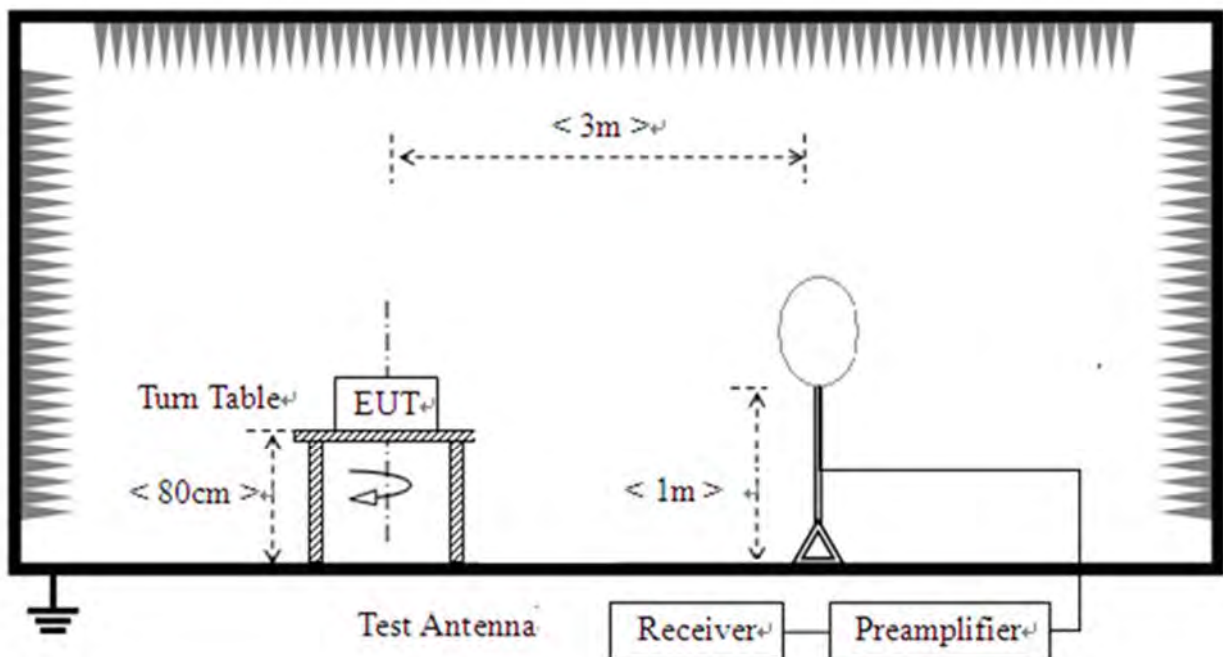
Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

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).

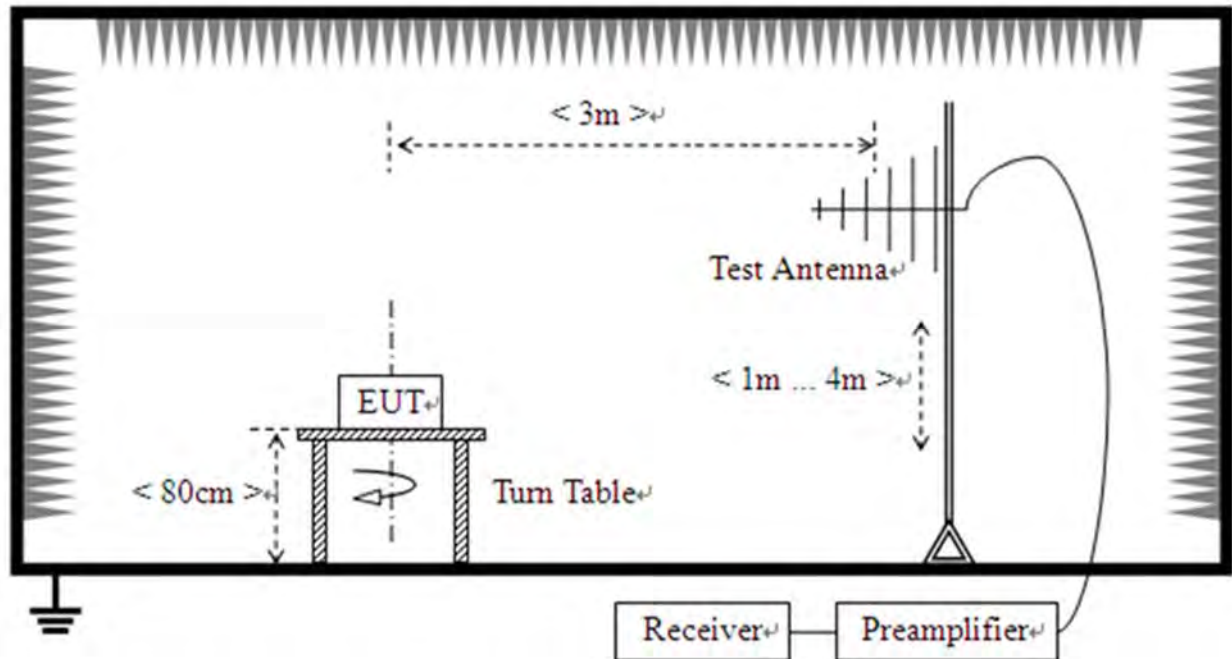
2.9.2. Test Description

Test Setup:

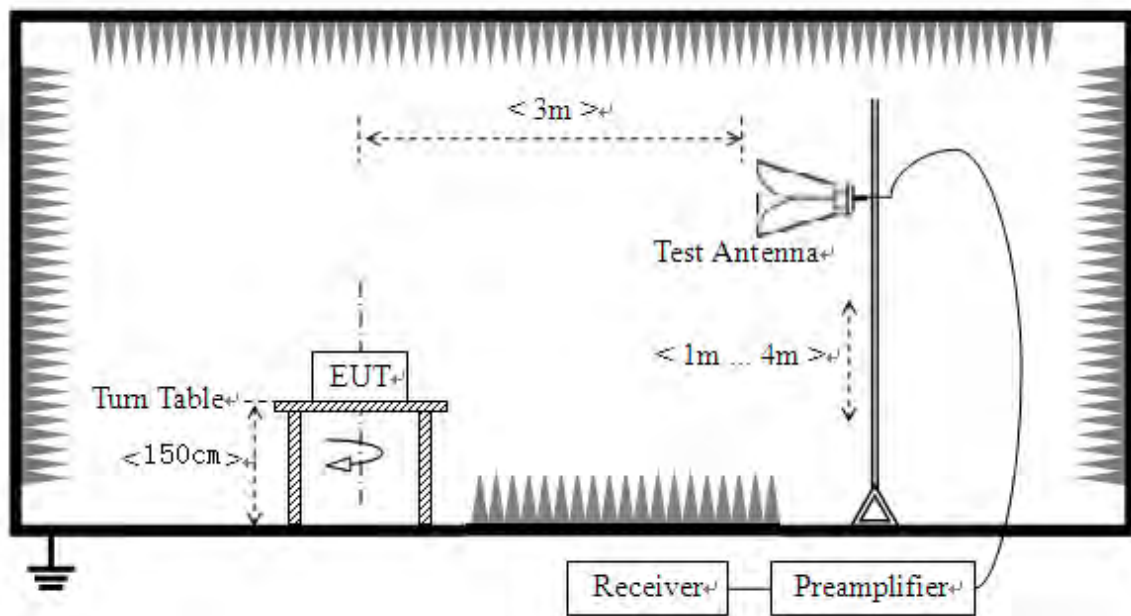
- 1) For radiated emissions from 9kHz to 30MHz



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 3meters. 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.

2.9.3. 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:

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

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.

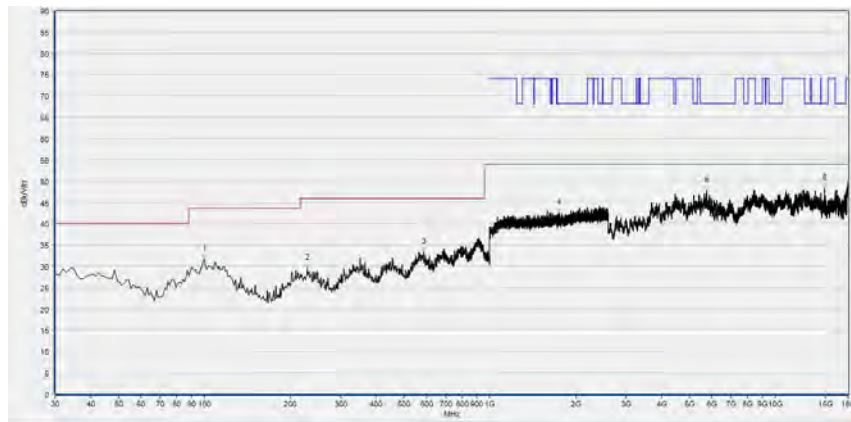
Note 2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

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.

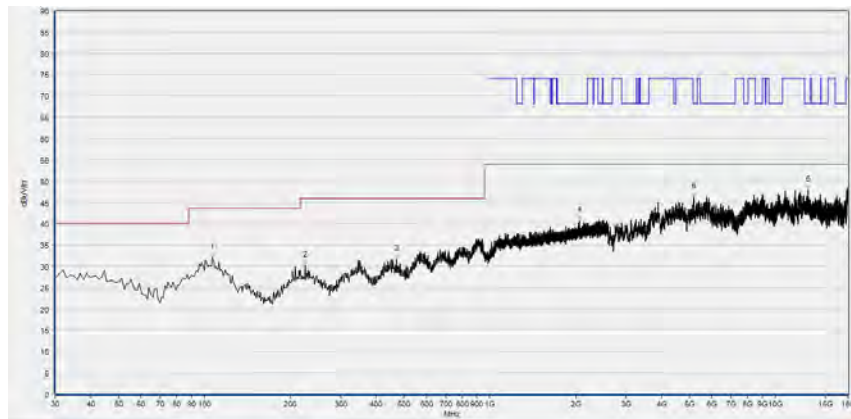
**802.11a Mode**

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
99.910	31.70	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
229.049	29.48	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
586.366	33.31	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1743.715	42.55	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5763.793	47.70	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
14857.772	48.26	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

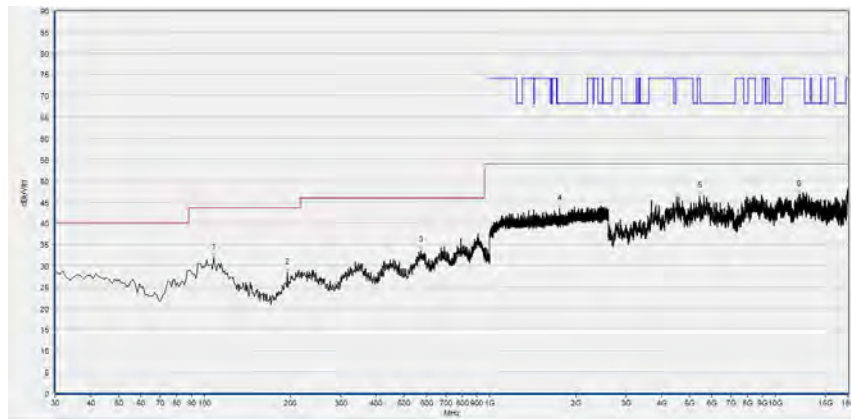
(Antenna Horizontal, 30MHz to 18GHz)



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
106.707	32.04	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
225.165	30.22	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
471.792	31.66	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2064.355	40.66	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5184.637	46.24	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
13067.934	47.87	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

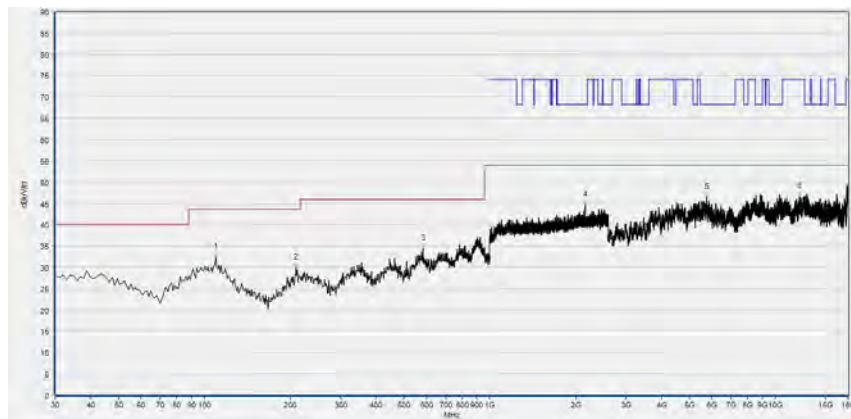
(Antenna Vertical, 30MHz to 18GHz)

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
107.678	31.85	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
195.065	28.37	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
574.715	33.45	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1758.653	43.35	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5418.764	46.38	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12069.814	46.70	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

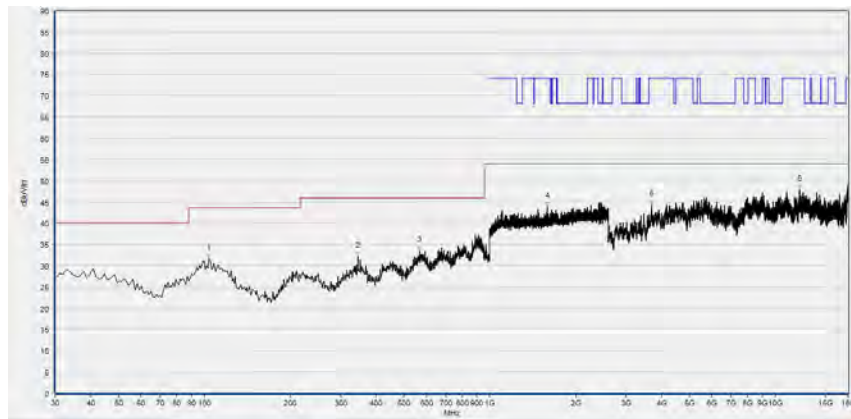
(Antenna Horizontal, 30MHz to 18GHz)



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
109.620	32.29	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
209.630	29.89	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
582.482	34.28	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2162.521	44.57	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5754.551	46.51	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12146.829	46.67	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

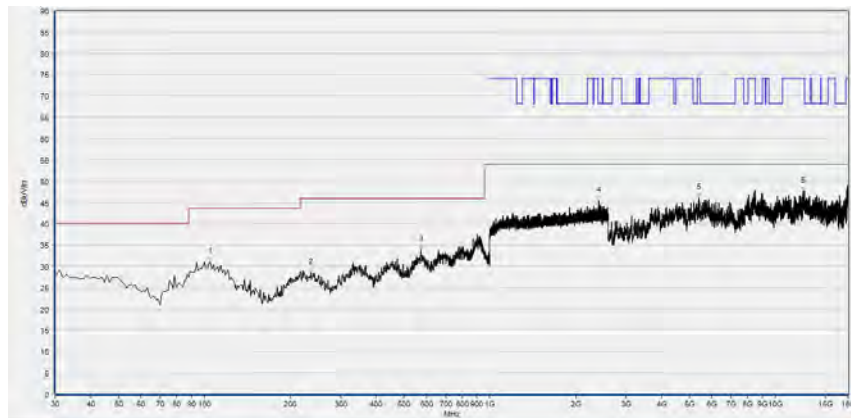
(Antenna Vertical, 30MHz to 18GHz)

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
103.794	31.72	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
344.595	32.16	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
567.918	33.55	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1594.331	43.87	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3690.538	44.39	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12162.232	47.87	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

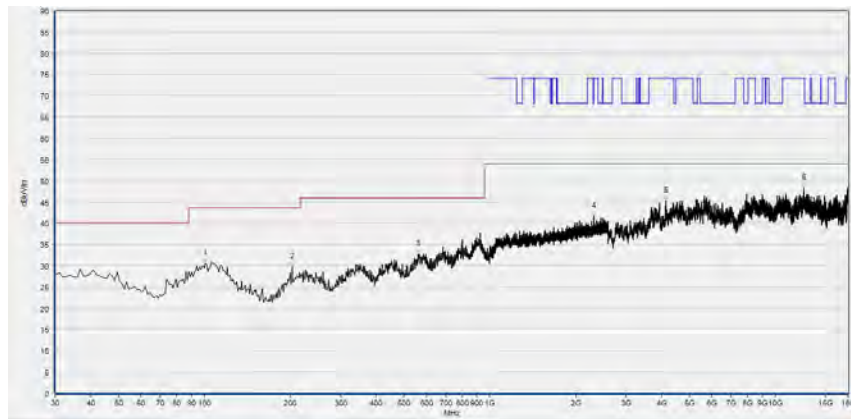
(Antenna Horizontal, 30MHz to 18GHz)



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
104.765	31.01	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
235.846	28.43	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
573.744	33.88	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2409.537	45.50	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5400.280	46.08	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12544.229	47.59	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

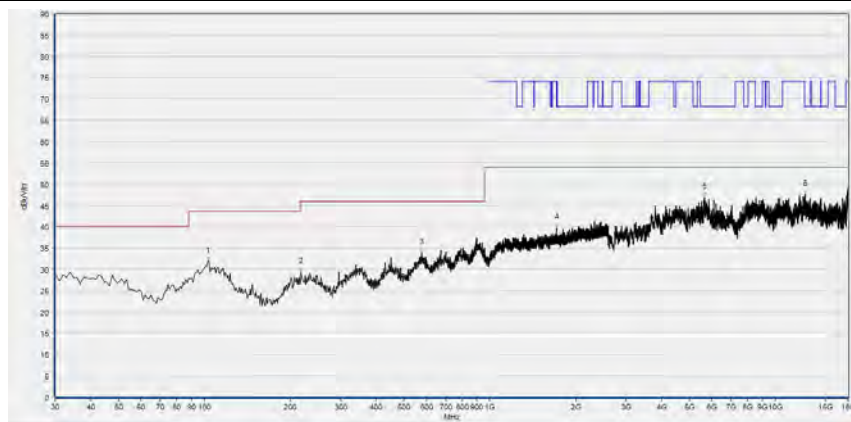
(Antenna Vertical, 30MHz to 18GHz)

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
100.881	30.48	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
202.833	29.59	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
559.179	32.76	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2318.840	41.51	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4146.469	45.23	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12608.922	48.33	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

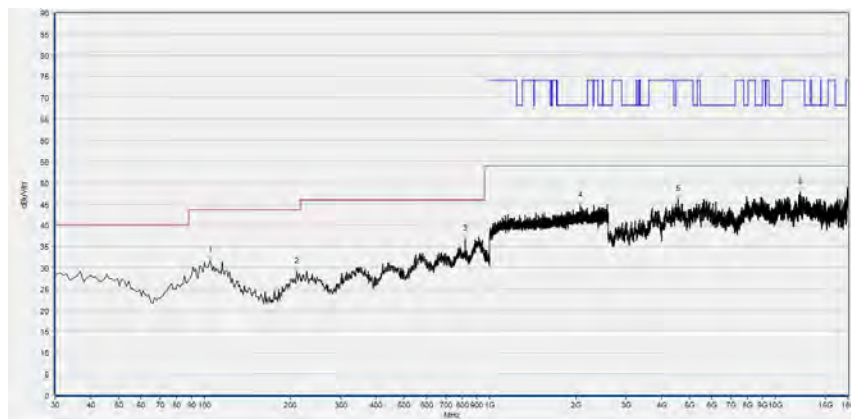


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
102.823	31.80	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
217.397	29.31	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
577.628	33.92	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1713.304	39.72	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5643.649	46.88	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12710.582	47.60	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

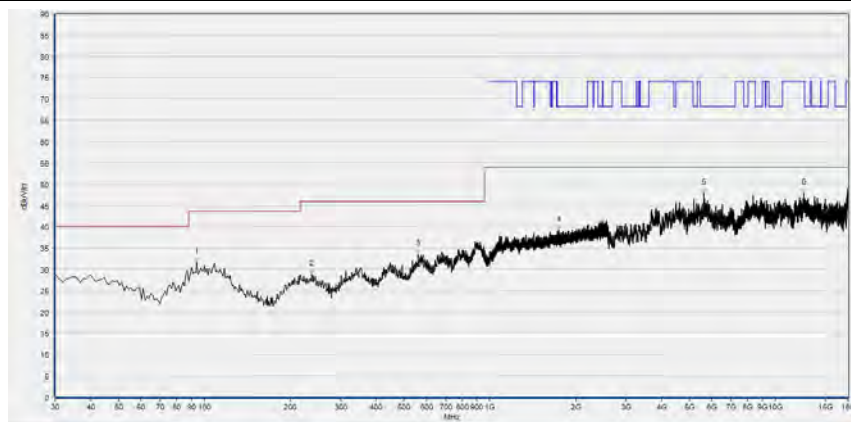


Plot for Channel 60



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
104.765	31.71	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
210.601	29.08	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
820.370	36.70	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2071.824	44.57	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4556.191	46.03	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12220.764	47.75	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

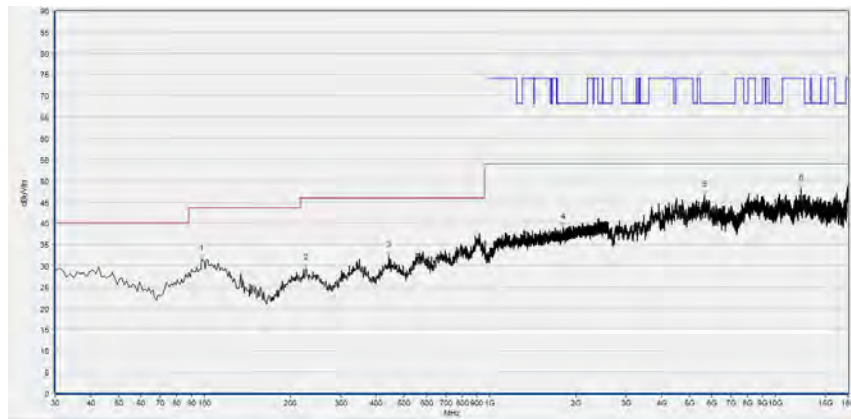
(Antenna Horizontal, 30MHz to 18GHz)



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
94.084	31.72	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
237.788	28.83	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
562.092	33.56	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1749.050	39.19	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5628.246	47.94	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12596.599	47.93	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

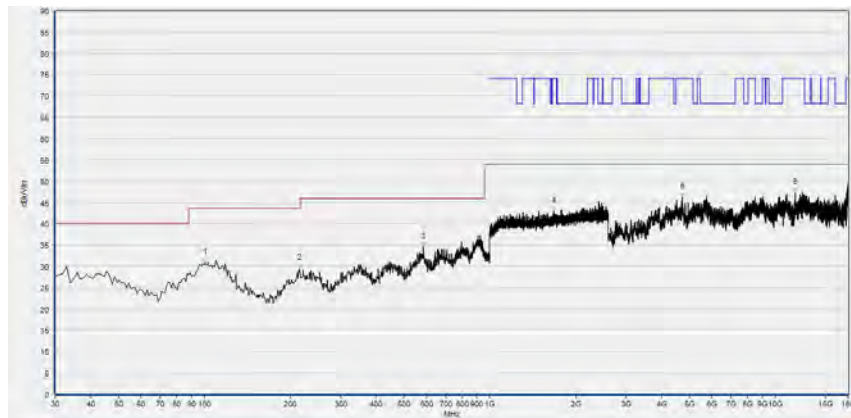
(Antenna Vertical, 30MHz to 18GHz)

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
97.968	31.59	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
226.136	29.31	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
442.663	32.40	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1806.135	38.98	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5652.891	46.58	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12300.860	48.03	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

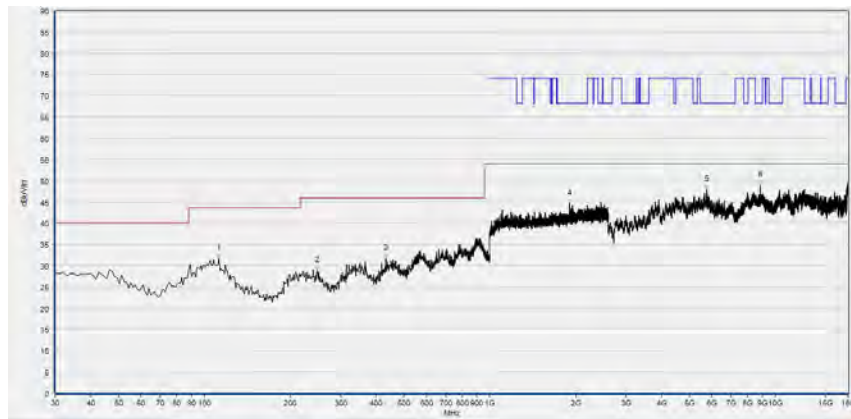
(Antenna Horizontal, 30MHz to 18GHz)



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	30.79	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
215.455	29.55	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
584.424	34.52	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1678.626	42.84	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4716.383	46.24	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
11749.430	47.27	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

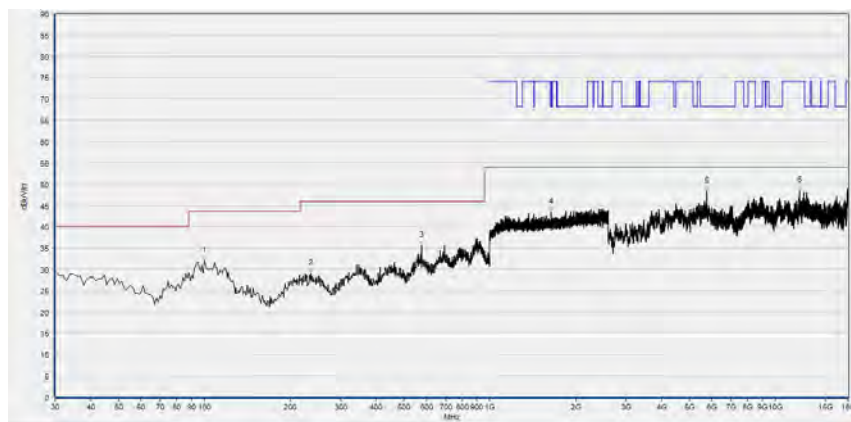
(Antenna Vertical, 30MHz to 18GHz)

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
112.533	31.68	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
248.468	28.79	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
431.982	31.59	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1904.301	44.58	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5751.470	47.90	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8859.812	48.86	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

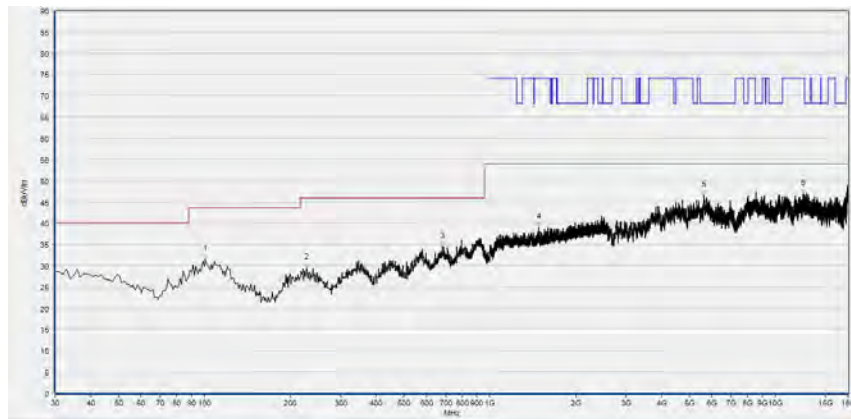
(Antenna Horizontal, 30MHz to 18GHz)



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
99.910	31.95	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
235.846	29.00	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
576.657	35.57	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1641.814	43.40	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5763.793	48.19	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12174.555	48.47	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

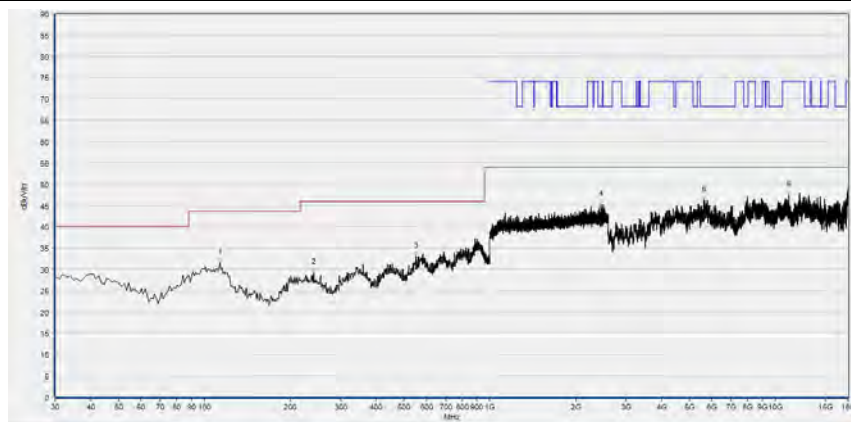
(Antenna Vertical, 30MHz to 18GHz)

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
100.881	31.55	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
228.078	29.50	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
681.522	34.47	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1482.828	39.04	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5625.165	46.57	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12516.503	46.91	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

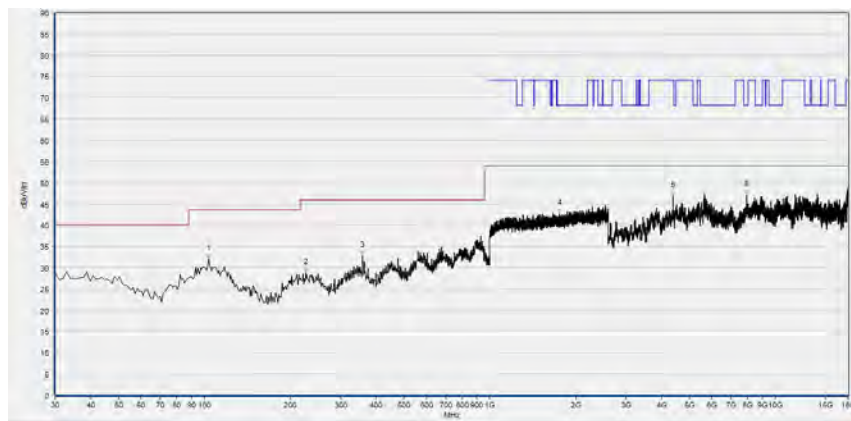


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
113.504	31.54	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
241.672	29.21	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
550.440	32.98	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2450.617	45.23	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5625.165	46.24	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
11142.549	47.46	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

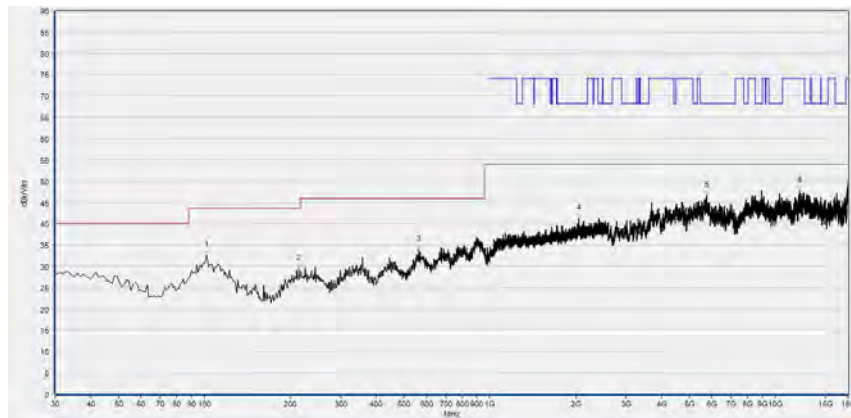


Plot for Channel 144



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
103.794	32.03	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
226.136	28.82	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
358.188	32.77	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1755.452	42.73	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4380.596	46.97	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7957.191	47.12	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

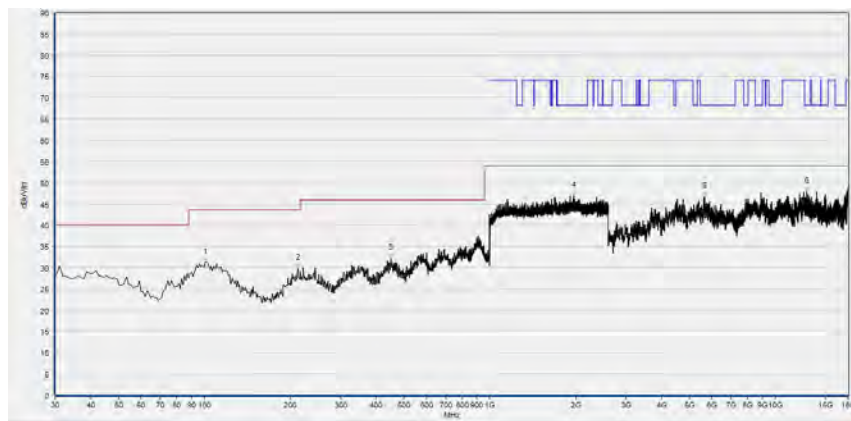
(Antenna Horizontal, 30MHz to 18GHz)



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	32.57	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
214.484	29.32	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
565.005	33.89	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2052.084	41.23	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5739.148	46.57	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12156.071	47.71	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

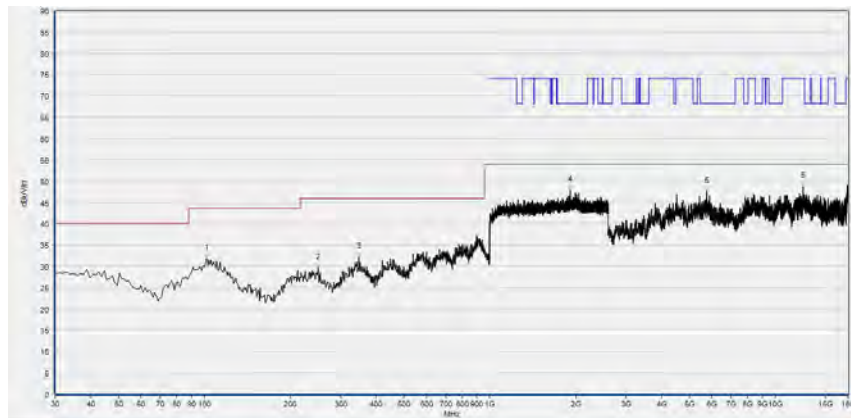
(Antenna Vertical, 30MHz to 18GHz)

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
100.810	31.24	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
212.360	29.82	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
450.010	32.17	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1963.200	46.95	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5655.360	46.70	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12868.720	47.88	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

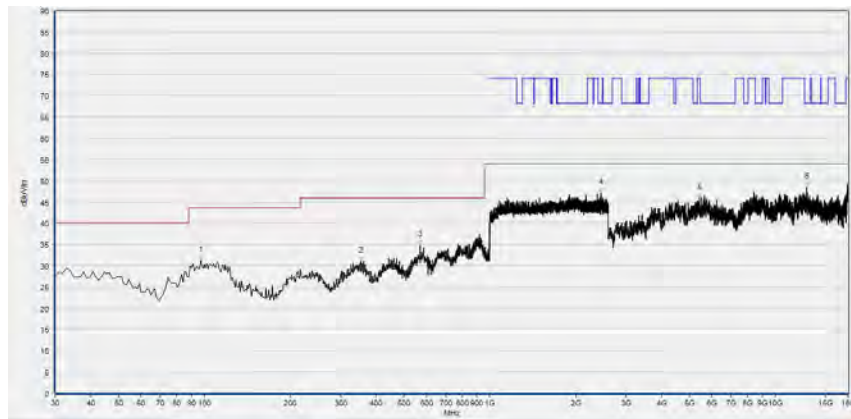
(Antenna Horizontal, 30MHz to 18GHz)



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
101.780	31.80	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
250.190	29.67	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
348.160	32.24	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1914.133	48.00	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5750.840	47.67	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12511.440	48.70	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

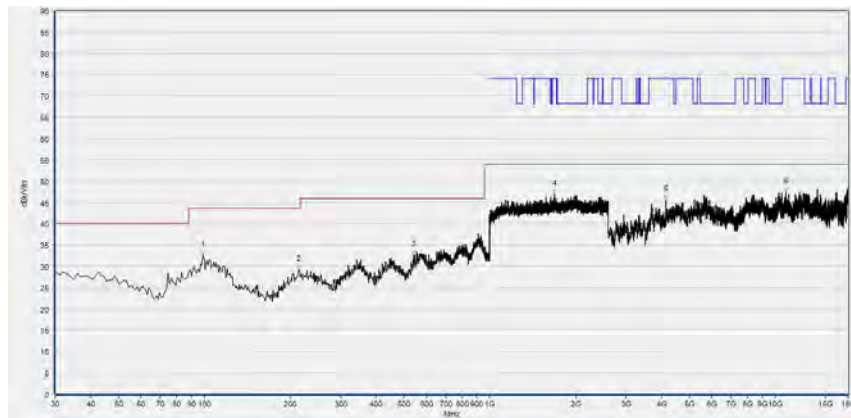
(Antenna Vertical, 30MHz to 18GHz)

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	31.24	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
353.980	30.94	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
569.320	34.83	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2456.000	47.13	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5418.200	45.89	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12884.120	48.36	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

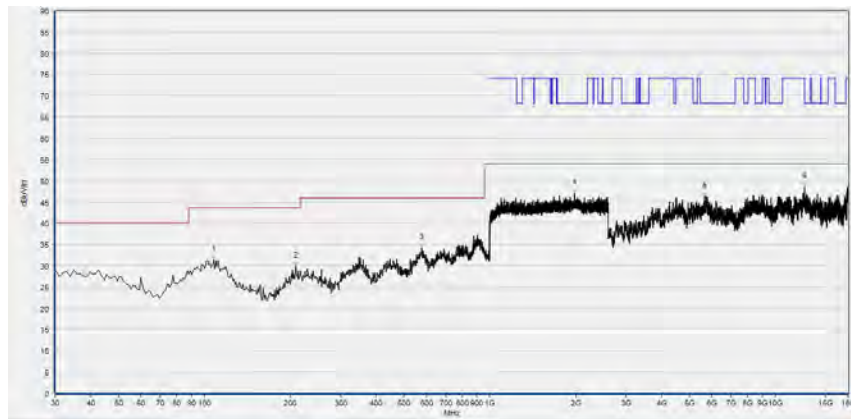
(Antenna Horizontal, 30MHz to 18GHz)



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
98.870	32.43	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
214.300	29.21	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
541.190	32.63	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1685.867	46.89	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4143.080	45.59	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10888.280	47.44	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

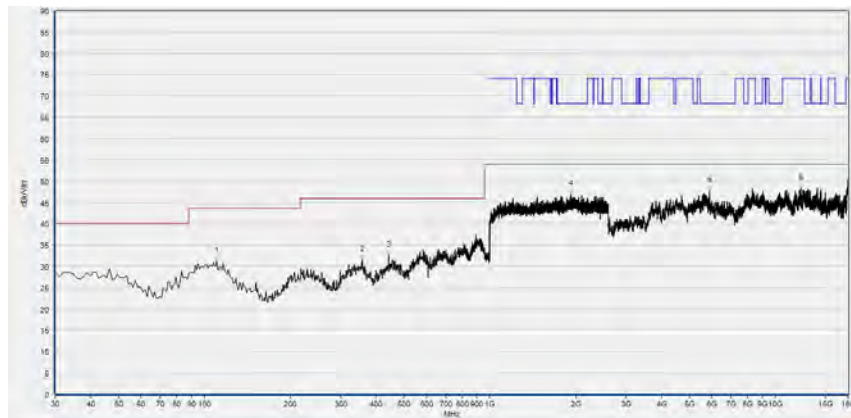
(Antenna Vertical, 30MHz to 18GHz)

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
107.600	31.35	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
209.450	29.91	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
578.050	34.11	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1978.133	47.17	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5639.960	46.31	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12671.600	48.54	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

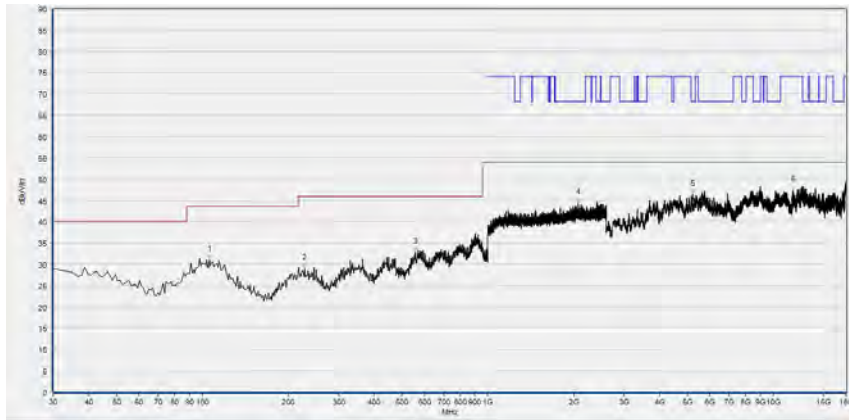


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
110.510	31.19	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
356.890	31.45	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
441.280	32.46	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1919.467	46.84	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5880.200	47.78	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12286.600	48.34	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

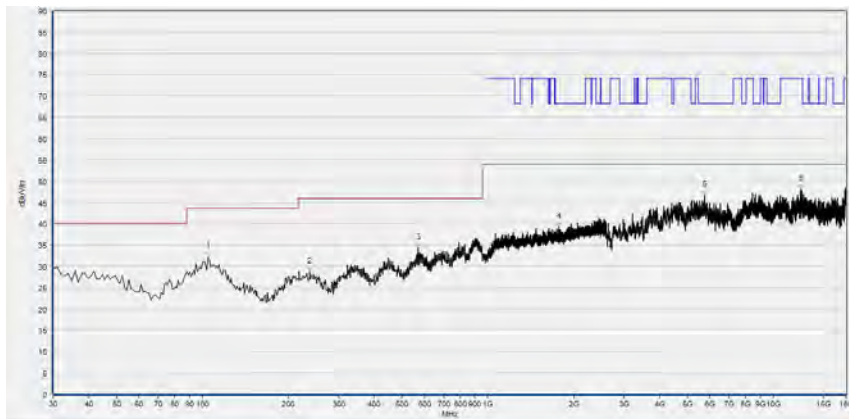
**802.11n (HT40) mode**

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
105.736	31.00	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
228.078	29.04	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
557.237	32.91	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2069.156	44.47	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5203.121	46.37	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11740.188	47.48	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

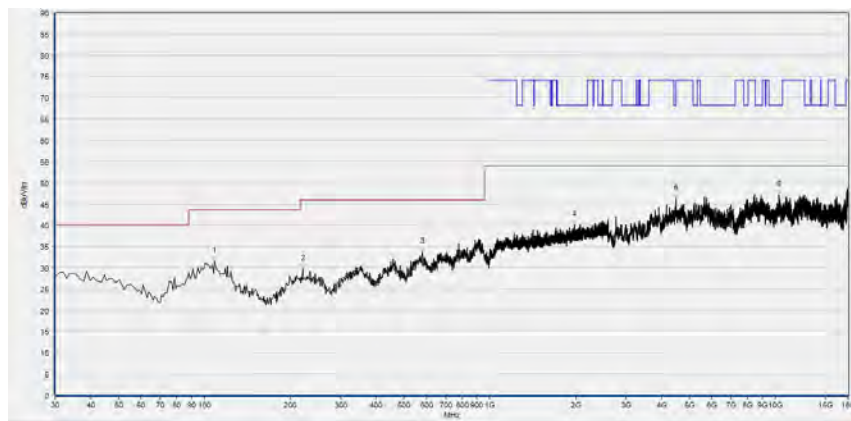


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
104.765	32.15	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
237.788	28.64	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
570.831	34.38	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1773.591	39.26	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5763.793	46.79	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12544.229	48.13	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

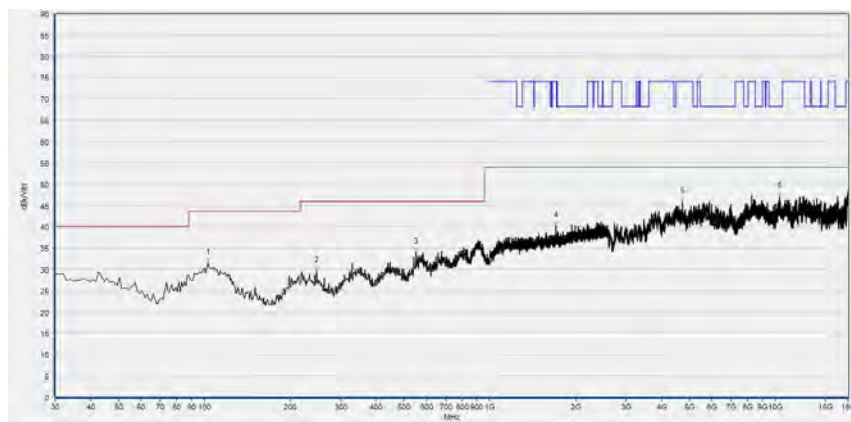


Plot for Channel 46



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
108.649	31.48	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
221.281	29.74	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
580.541	33.64	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1980.060	40.00	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4482.256	46.33	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10320.024	47.02	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

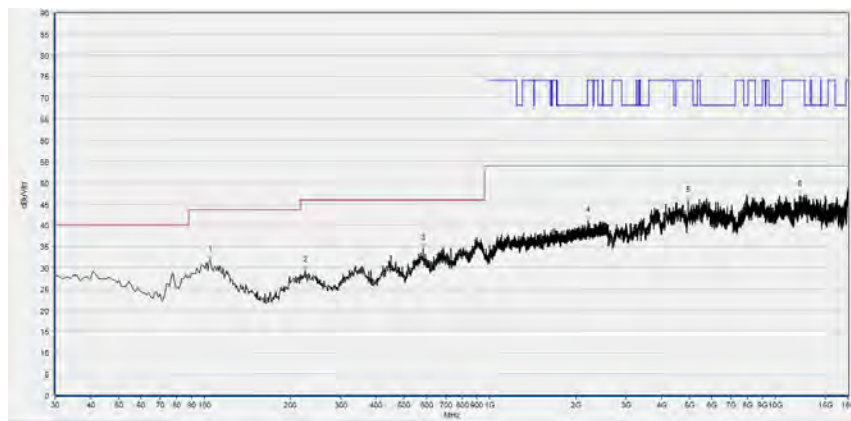


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
102.823	31.49	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
247.497	29.65	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
552.382	34.05	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1705.302	40.29	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4737.948	45.94	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10329.266	47.13	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

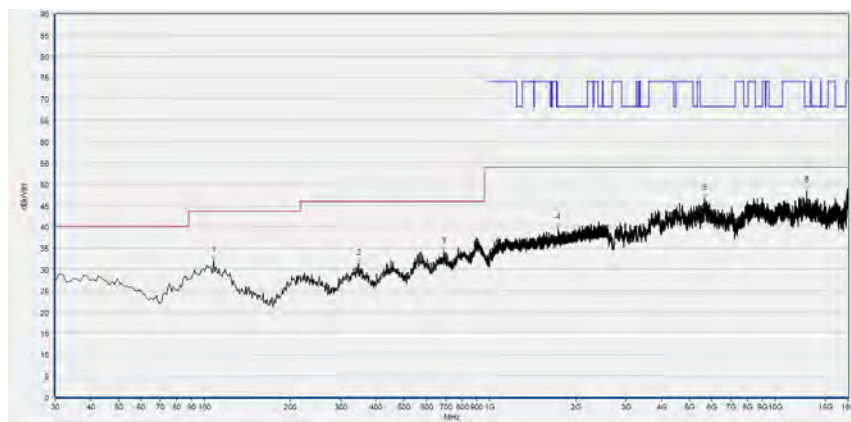


Plot for Channel 54



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
104.765	31.87	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
225.165	29.39	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
583.453	34.55	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2209.470	41.09	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4950.510	45.76	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12196.119	47.14	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

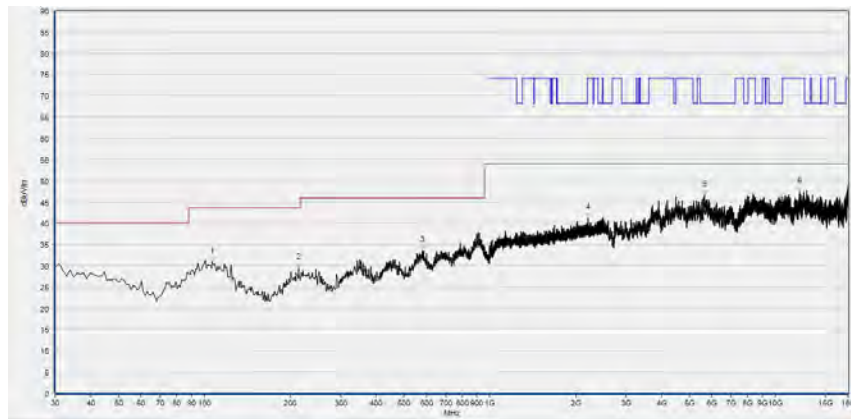


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
107.678	32.09	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
346.537	31.26	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
688.318	34.11	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1735.712	39.79	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5649.810	46.61	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12913.903	48.47	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

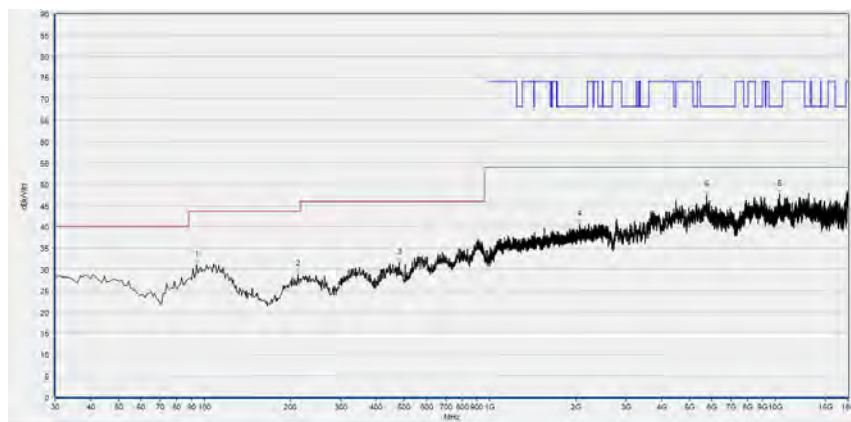


Plot for Channel 62



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
106.707	30.84	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
213.514	29.45	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
579.570	33.57	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2208.936	41.25	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5662.132	46.65	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12193.039	47.38	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

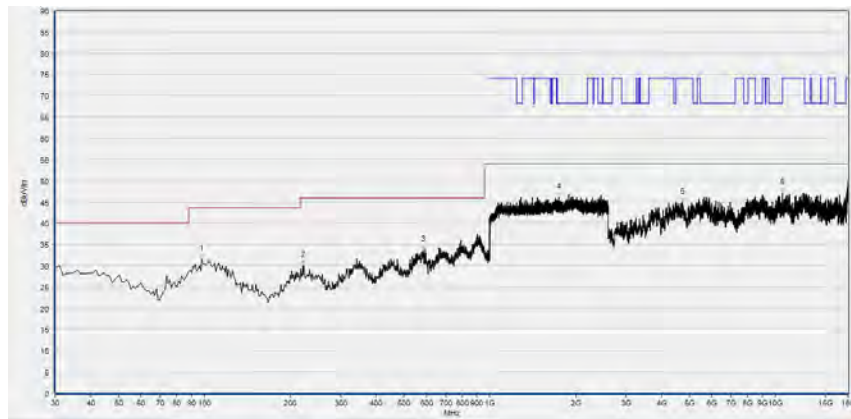
(Antenna Horizontal, 30MHz to 18GHz)



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
94.084	31.02	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
212.543	28.78	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
482.472	31.50	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2059.553	40.52	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5760.712	47.39	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
10363.153	47.53	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

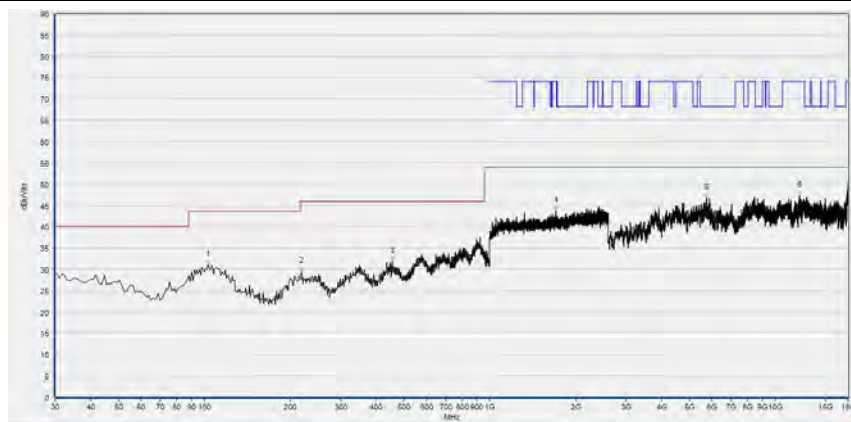
(Antenna Vertical, 30MHz to 18GHz)

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
97.900	31.56	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
221.090	29.99	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
581.930	33.66	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1744.533	46.17	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4725.200	44.87	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10604.920	47.07	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

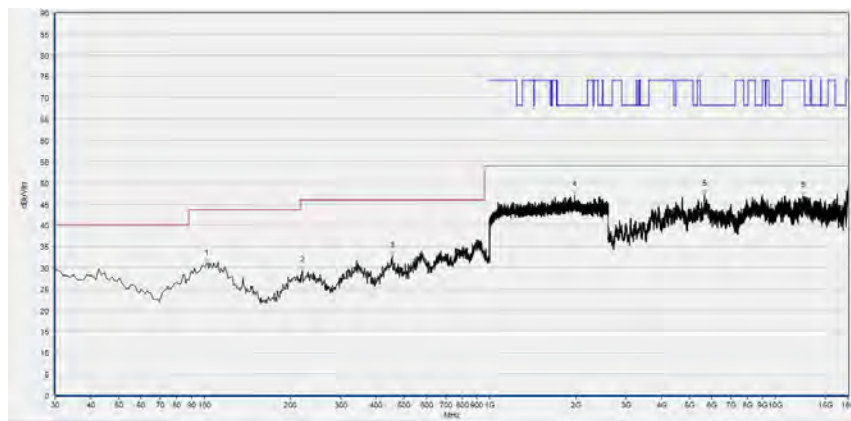
(Antenna Horizontal, 30MHz to 18GHz)



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	30.95	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
219.339	29.49	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
454.314	31.84	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1704.768	43.75	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5742.228	46.77	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12152.991	47.34	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

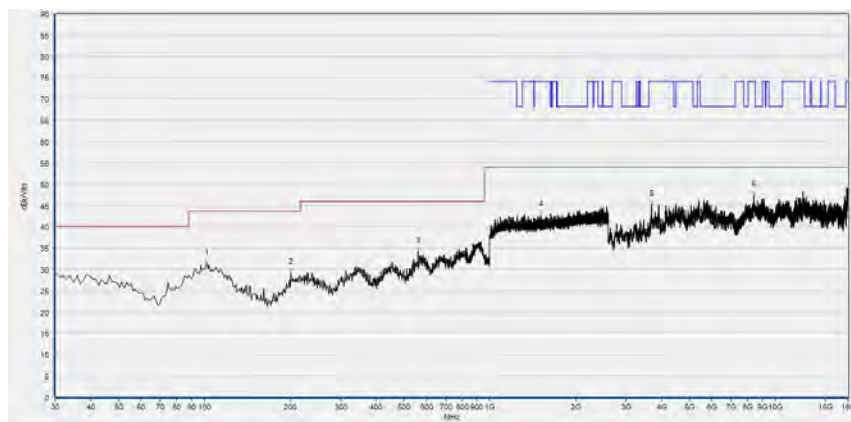
(Antenna Vertical, 30MHz to 18GHz)

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
101.780	30.80	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
220.120	29.30	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
454.860	32.76	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1979.200	47.11	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5639.960	47.29	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12499.120	46.98	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

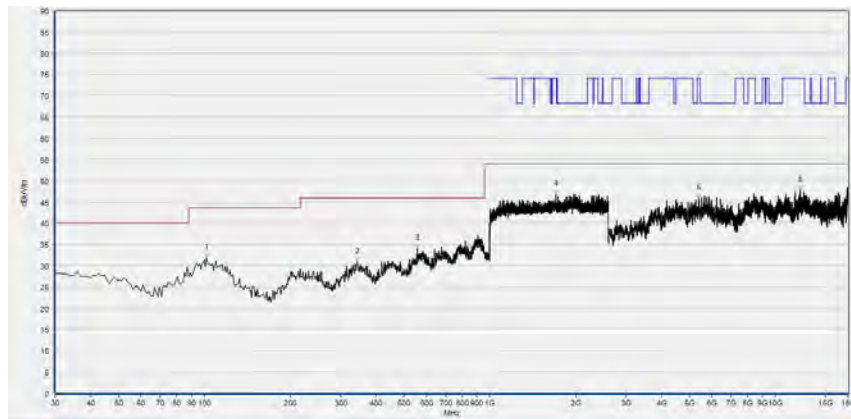
(Antenna Horizontal, 30MHz to 18GHz)



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	31.36	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
200.891	29.19	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
561.121	34.16	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1513.238	42.69	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3693.619	45.26	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8422.364	47.46	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

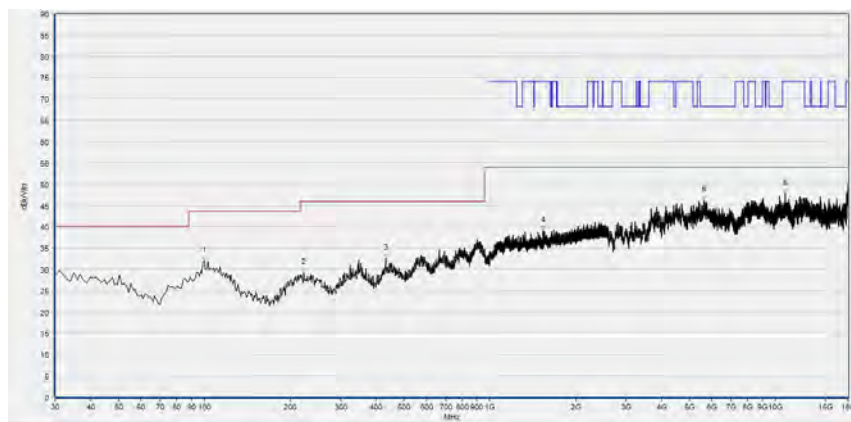
(Antenna Vertical, 30MHz to 18GHz)

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
101.780	31.86	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
343.310	30.85	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
555.740	34.06	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1701.333	46.71	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5399.720	45.94	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12212.680	47.74	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

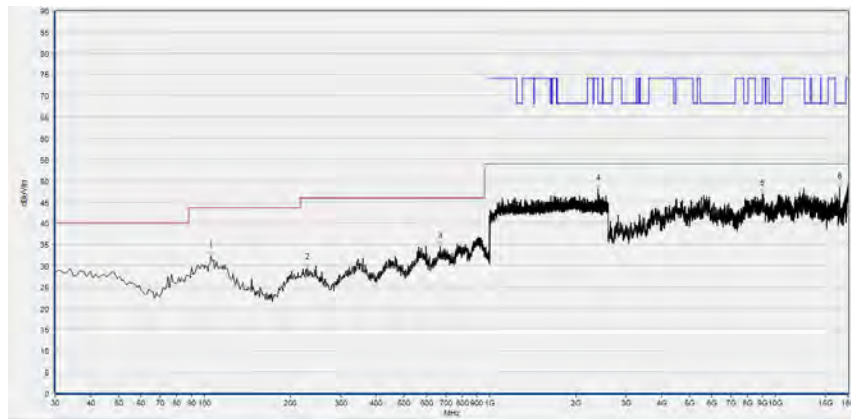
(Antenna Horizontal, 30MHz to 18GHz)



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	31.93	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
223.223	29.15	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
431.982	32.48	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1538.846	39.04	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5631.326	46.28	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
10849.890	47.77	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

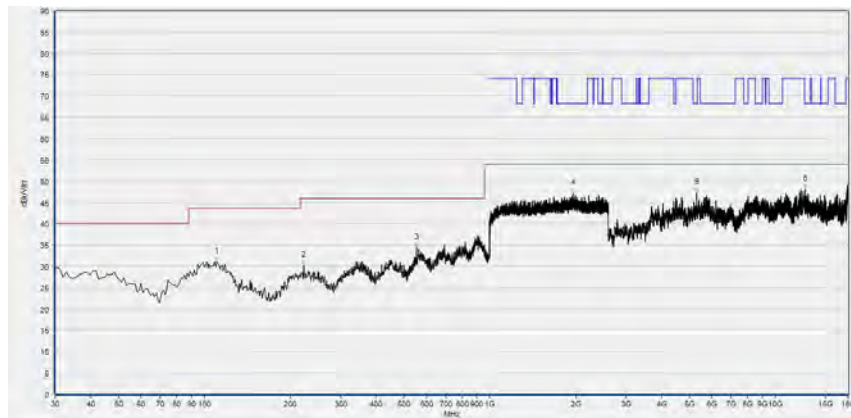
(Antenna Vertical, 30MHz to 18GHz)

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
105.660	32.20	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
229.820	29.42	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
671.170	34.50	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2390.933	48.03	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
9024.880	46.95	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
16792.640	48.40	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

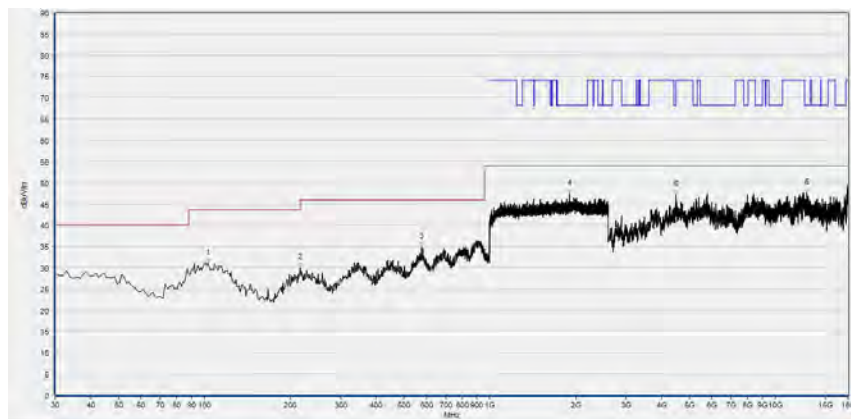


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
110.510	30.98	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
223.030	30.11	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
552.830	34.40	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1955.733	47.07	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5301.160	47.27	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12733.200	48.13	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

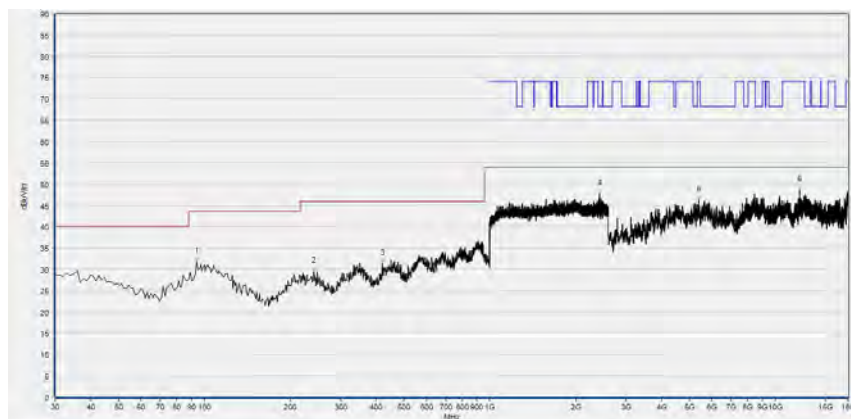


Plot for Channel 159



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	31.02	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
216.240	30.01	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
576.110	34.82	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1904.000	47.36	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4475.720	47.04	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12908.760	47.67	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

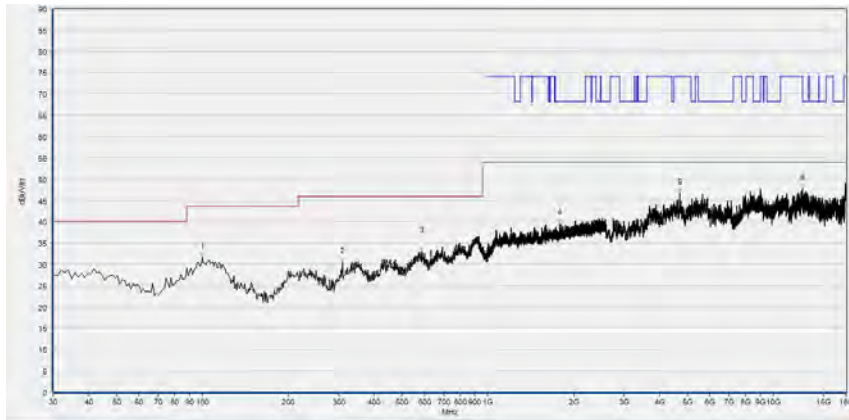


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
94.020	31.91	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
241.460	29.42	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
418.970	31.42	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2422.400	47.74	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5393.560	46.18	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12178.800	48.58	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

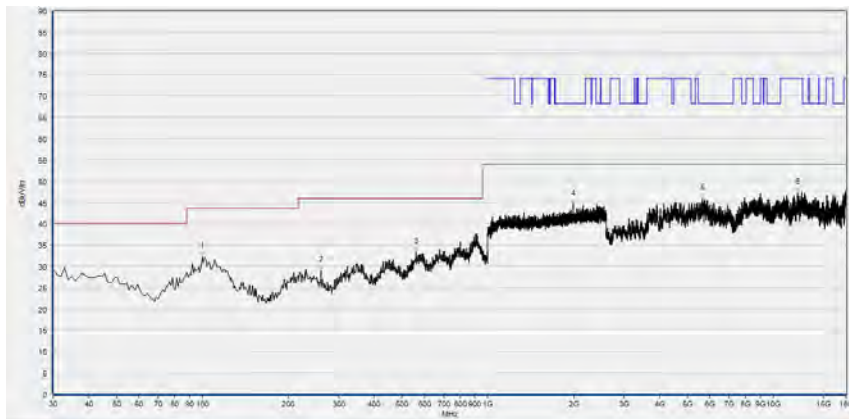
**802.11ac (VHT80) Mode**

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
99.910	31.68	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
309.640	30.55	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
585.395	32.98	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1782.127	39.61	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4713.303	46.81	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12673.615	47.84	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

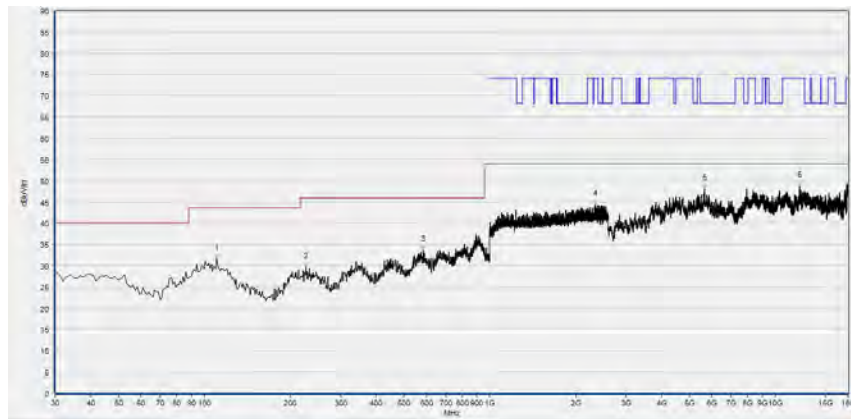
(Antenna Horizontal, 30MHz to 18GHz)



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
99.910	32.18	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
260.120	29.06	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
562.092	33.30	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1989.130	44.63	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5646.729	45.84	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12183.797	47.33	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

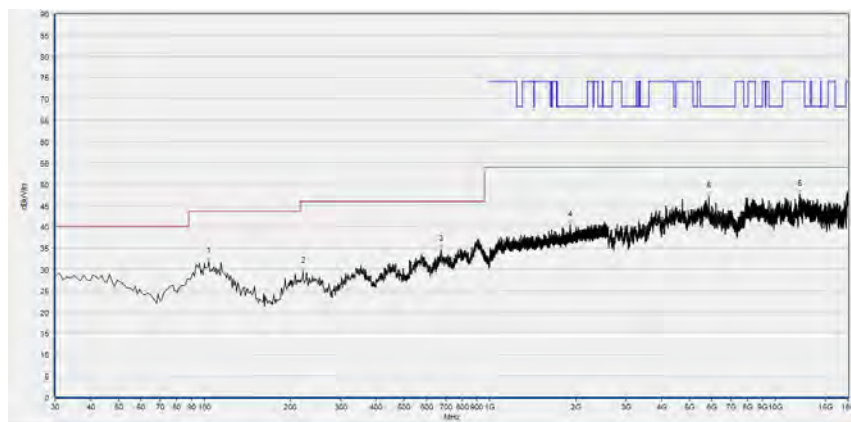
(Antenna Vertical, 30MHz to 18GHz)

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
110.591	31.69	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
227.107	29.70	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
584.424	33.73	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2336.445	44.36	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5649.810	48.06	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12149.910	48.76	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

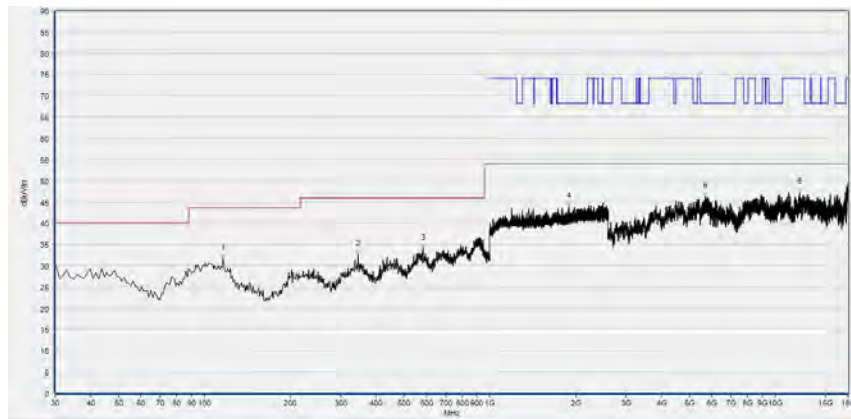
(Antenna Horizontal, 30MHz to 18GHz)



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
103.794	31.76	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
221.281	29.47	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
675.696	34.76	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1910.170	40.46	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5865.453	47.11	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12159.152	47.53	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

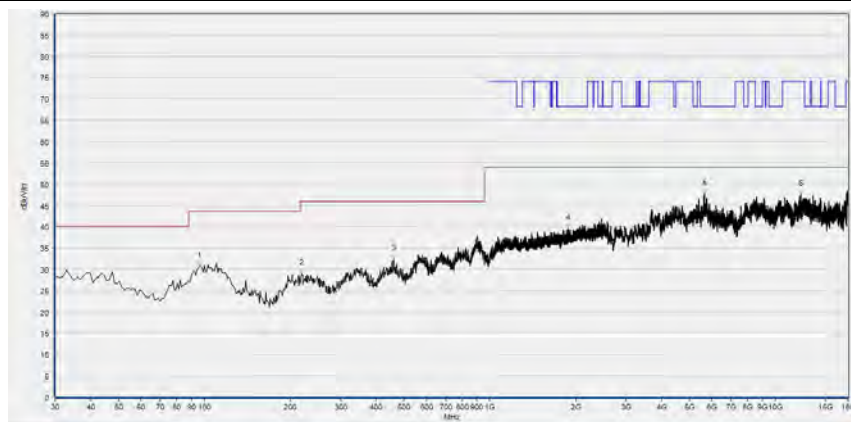
(Antenna Vertical, 30MHz to 18GHz)

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
116.416	31.75	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
345.566	32.75	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
583.453	34.06	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1896.299	43.86	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5674.455	46.27	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12152.991	47.21	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

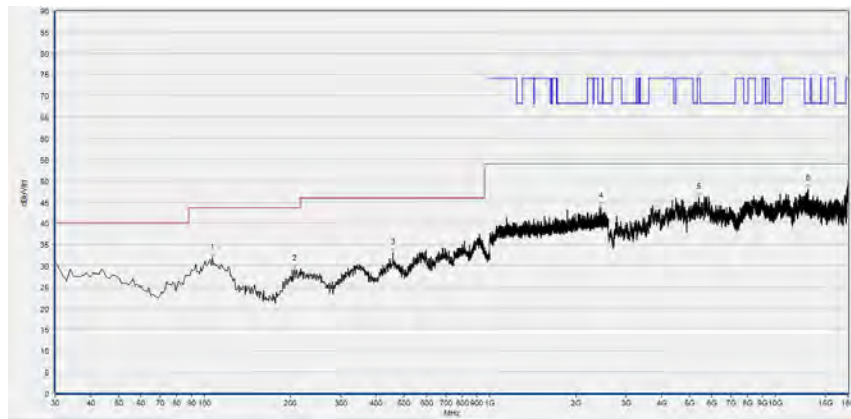
(Antenna Horizontal, 30MHz to 18GHz)



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
96.026	30.65	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
219.339	29.02	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
460.140	32.31	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1874.958	39.63	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5640.568	47.80	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12279.296	47.54	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

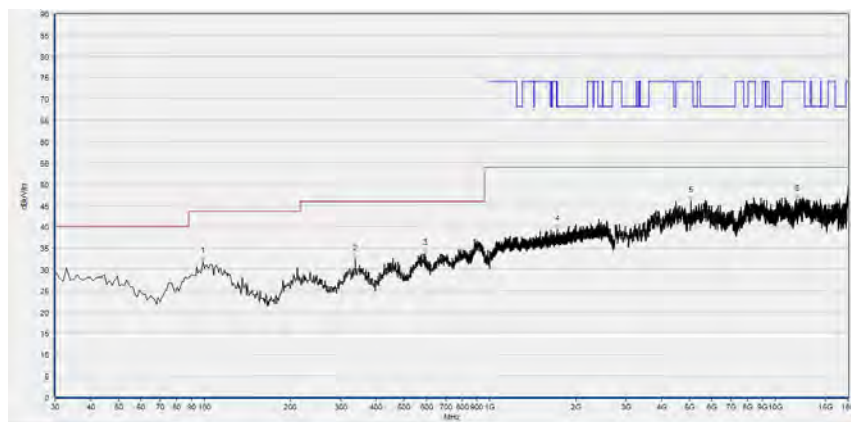
(Antenna Vertical, 30MHz to 18GHz)

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
106.707	31.85	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
206.717	29.12	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
457.227	33.03	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2453.818	43.83	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5412.603	46.06	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13052.531	48.02	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

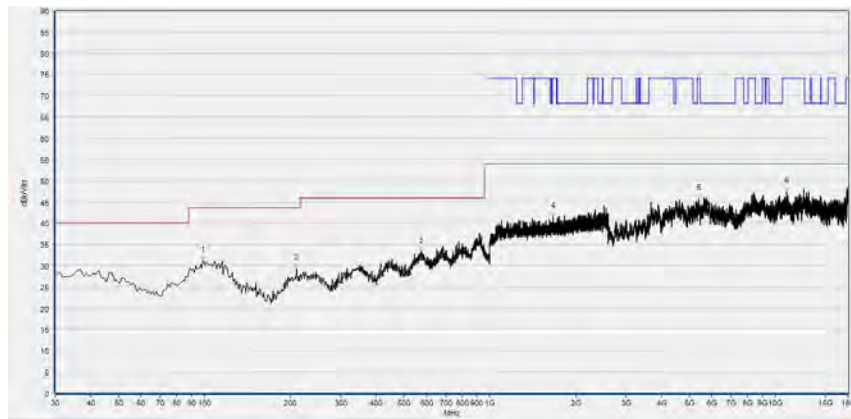


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
98.939	31.92	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
337.798	32.39	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
592.192	33.67	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1728.243	39.32	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5070.654	46.08	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
11884.977	46.50	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

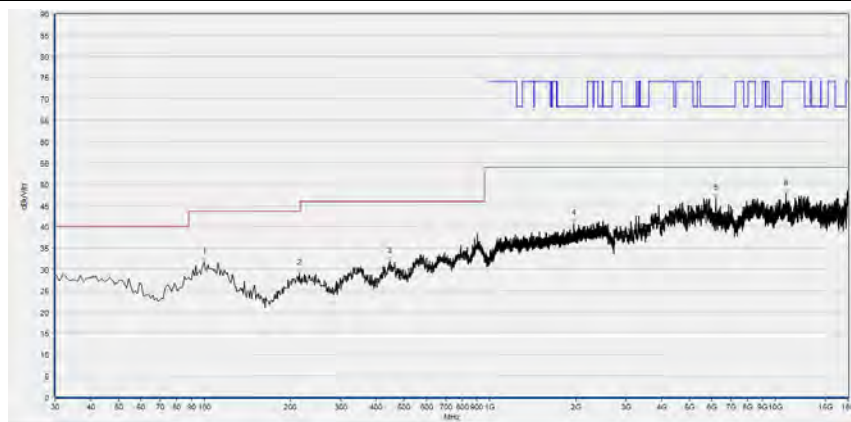


Plot for Channel 138



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	31.18	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
210.601	29.25	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
574.715	33.34	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1662.621	41.58	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5397.199	45.71	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10991.598	47.42	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

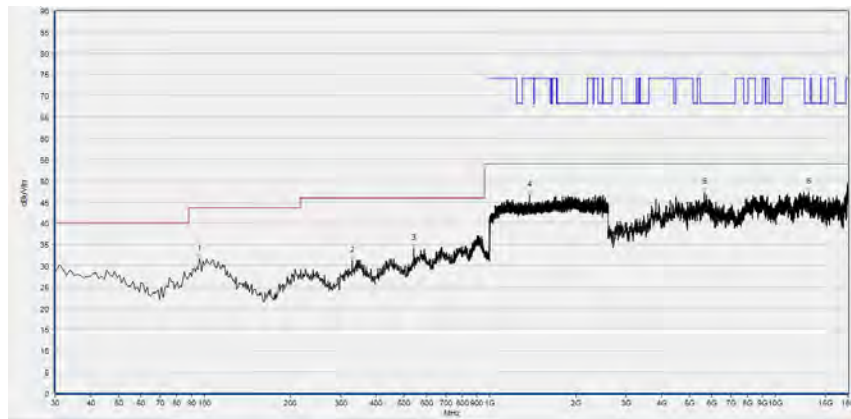
(Antenna Horizontal, 30MHz to 18GHz)



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	31.74	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
215.455	28.94	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
445.576	31.80	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1965.655	40.74	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
6188.918	46.61	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
10896.099	47.71	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

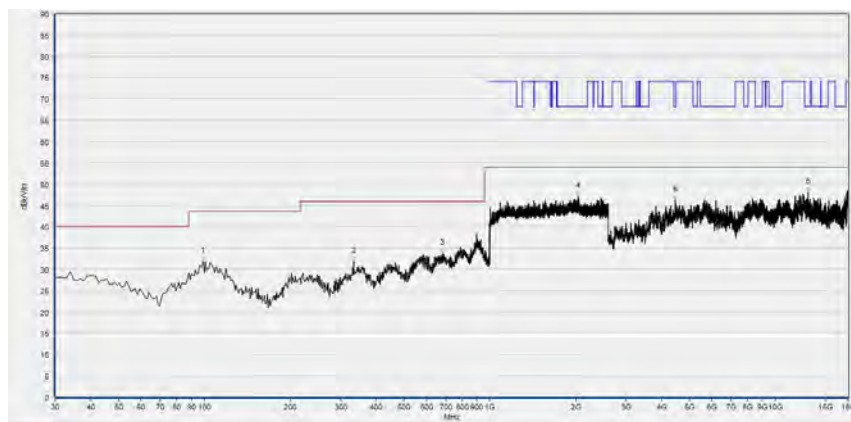
(Antenna Vertical, 30MHz to 18GHz)

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
95.960	31.56	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
329.730	31.10	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
541.190	33.95	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1373.867	46.51	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5649.200	47.26	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
13075.080	47.24	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
98.870	31.82	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
333.610	31.79	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
682.810	33.62	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2034.667	47.10	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4457.240	46.19	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
13068.920	48.13	N/A	N/A	68.23	N/A	N/A	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
Peak Output Power	$\pm 2.22\text{dB}$
Power Spectral Density	$\pm 2.22\text{dB}$
Bandwidth	$\pm 5\%$
Restricted Frequency Bands	$\pm 5\%$
Radiated Emission	$\pm 2.95\text{dB}$
Conducted Emission	$\pm 2.44\text{dB}$

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 Test Equipments

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Attenuator 1	N/A	10dB	Resnet	N/A	N/A
EXA Signal Analyzer	MY53470836	N9010A	Agilent	2022.03.01	2023.02.28
USB Wideband Power Sensor	MY54180008	U2021XA	Agilent	2021.10.21	2022.10.20
Temperature Chamber	12108015	DTL-003S101	YOMA	2021.10.20	2022.10.19
RF Cable (30MHz-26GHz)	CB01	RF01	Morlab	N/A	N/A
Coaxial Cable	CB02	RF02	Morlab	N/A	N/A
SMA Connector	CN01	RF03	HUBER-SUHNER	N/A	N/A

4.2 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	812744	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

4.3 List of Software Used

Description	Manufacturer	Software Version
Test System	Tonscend	V2.5.77.0418
Morlab EMCR V1.2	Morlab	V1.0
TS+ -[JS32-CE]	Tonscend	V2.5.0.0

**4.4 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 - 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	BBHA 9170	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	S020180L3203	Tonscend	2022.07.08	2023.07.07
18-26.5GHz pre-Amplifier	46732	S10M100L3802	Tonscend	2022.07.08	2023.07.07
26-40GHz pre-Amplifier	56774	S40M400L4002	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

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