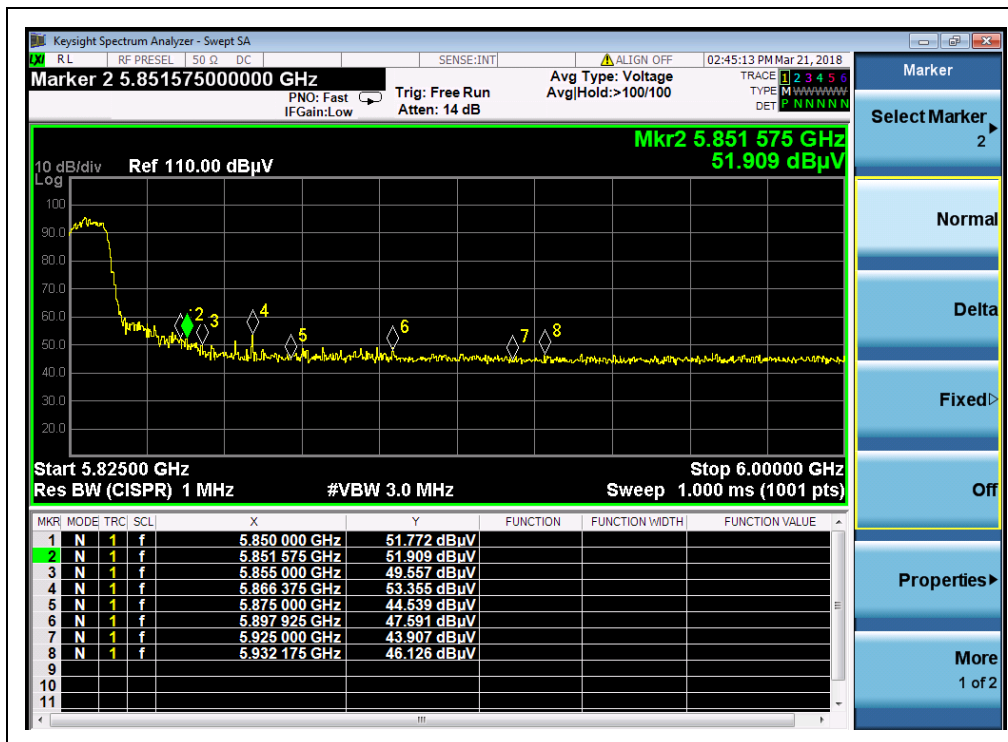




(Channel 165, PEAK, 802.11 n (HT20))

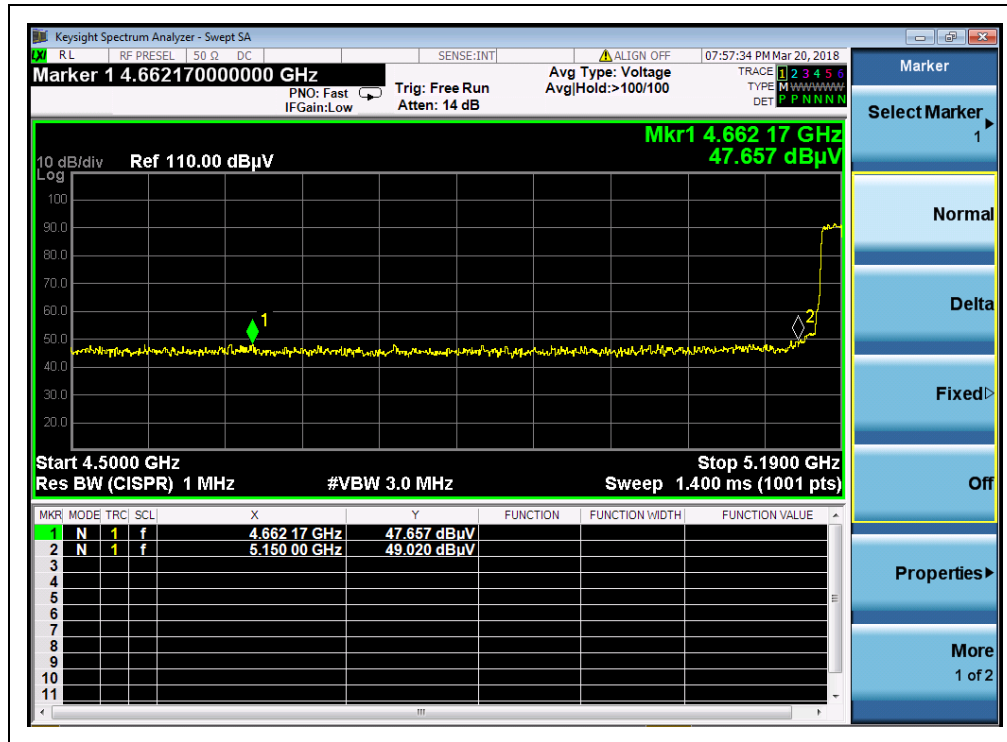


(Channel 165, AVG, 802.11 n (HT20))

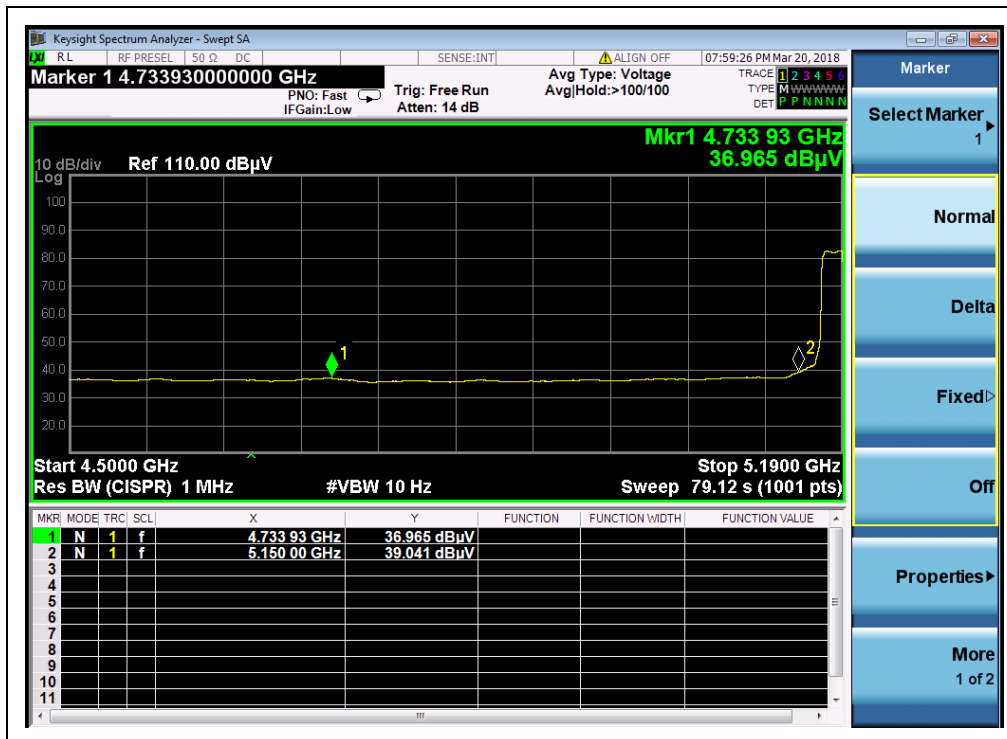
**802.11n (HT40) Test mode****A. Test Verdict:**

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBuV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBuV/m)	Limit (dBuV/m)	Verdict
		PK/ AV						
38	4662.17	PK	47.66	-50.65	32.11	29.12	74	PASS
38	4733.93	AV	36.97	-50.15	31.92	18.74	54	PASS
62	5374.60	PK	44.73	-52.24	31.57	24.06	74	PASS
62	5374.60	AV	35.25	-52.24	31.57	14.58	54	PASS
102	5152.27	PK	46.06	-51.67	31.86	26.25	68.23	PASS
102	5152.27	AV	36.97	-51.67	31.86	17.16	54	PASS
142	5833.27	PK	47.27	-53.17	32.98	27.08	68.23	PASS
142	5748.13	AV	36.99	-53.12	32.96	16.83	54	PASS
151	5720.00	PK	48.83	-53.37	33.28	28.74	110.83	PASS
151	5723.23	AV	39.36	-53.25	33.31	19.42	54	PASS
159	5853.42	PK	49.05	-53.53	33.46	28.98	68.23	PASS
159	5855.00	AV	36.60	-53.55	33.42	16.47	54	PASS

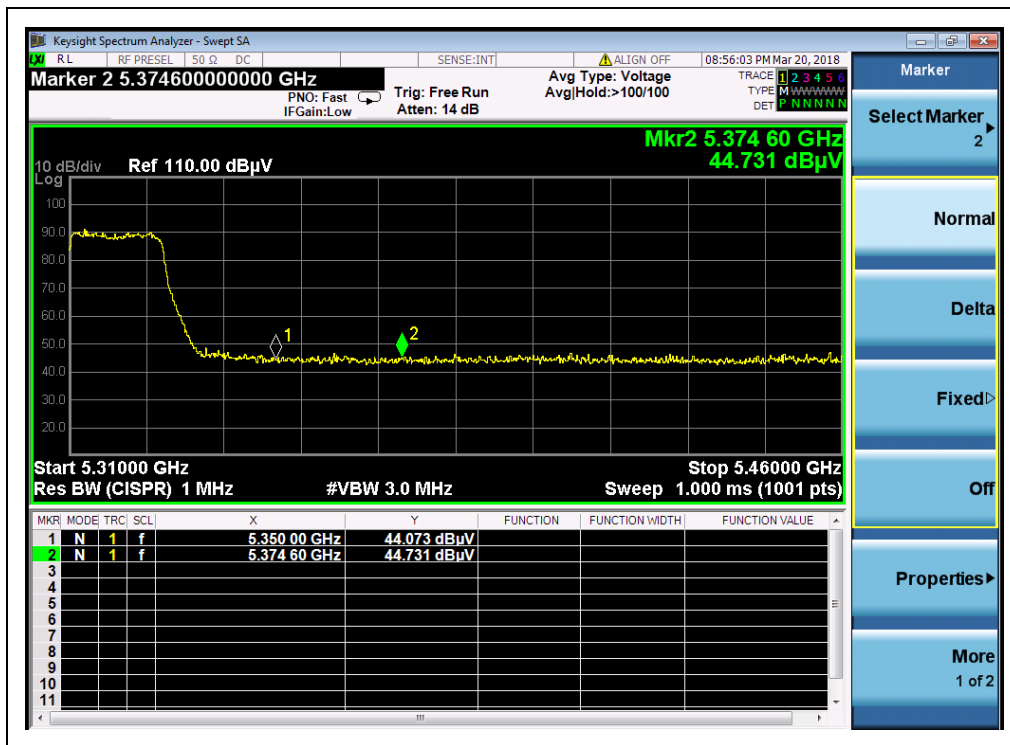
B. Test Plots:



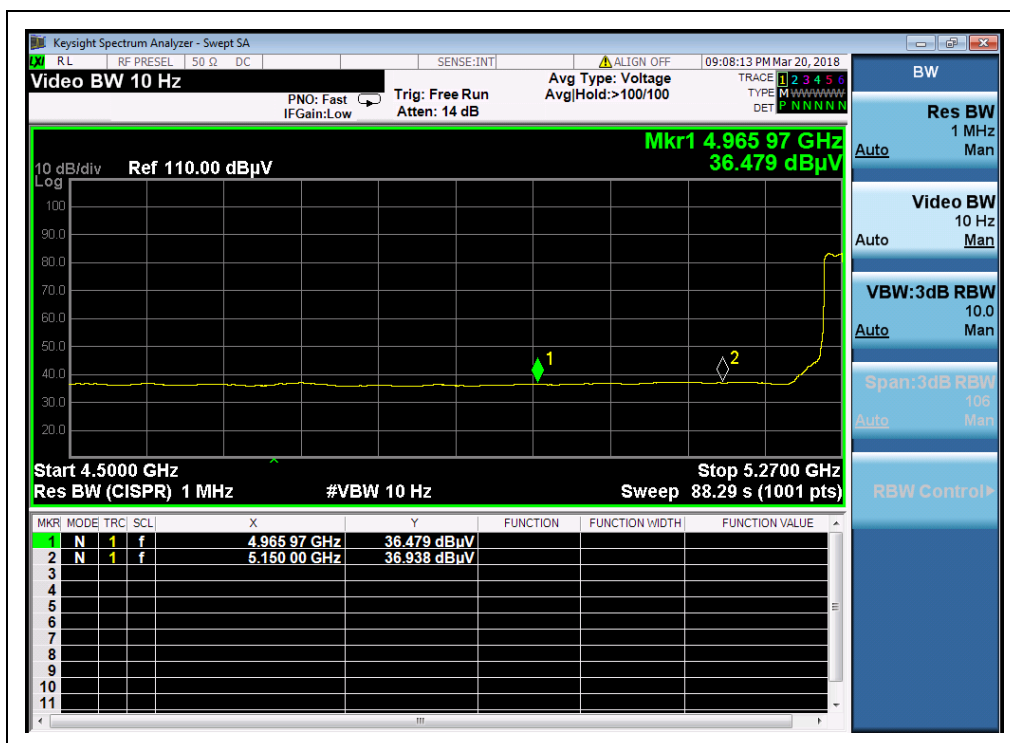
(Channel 38, PEAK, 802.11n (HT40))



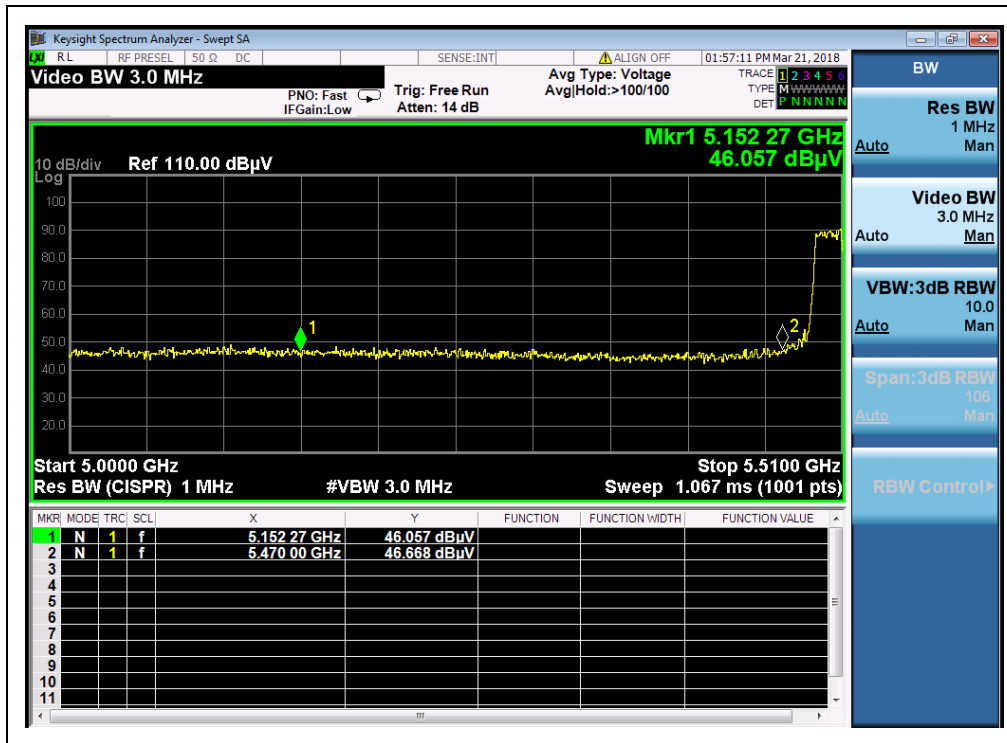
(Channel 38, AVG, 802.11n (HT40))



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



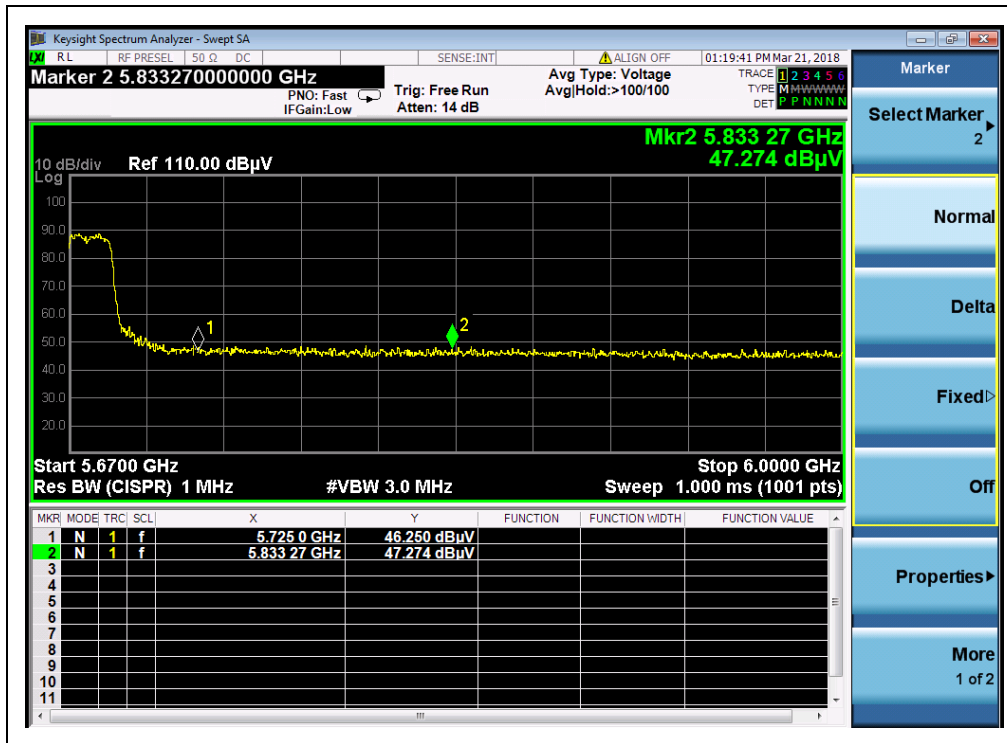
(Channel 62, AVG, 802.11n (HT40))



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



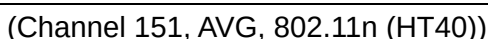
(Channel 102, AVG, 802.11n (HT40))

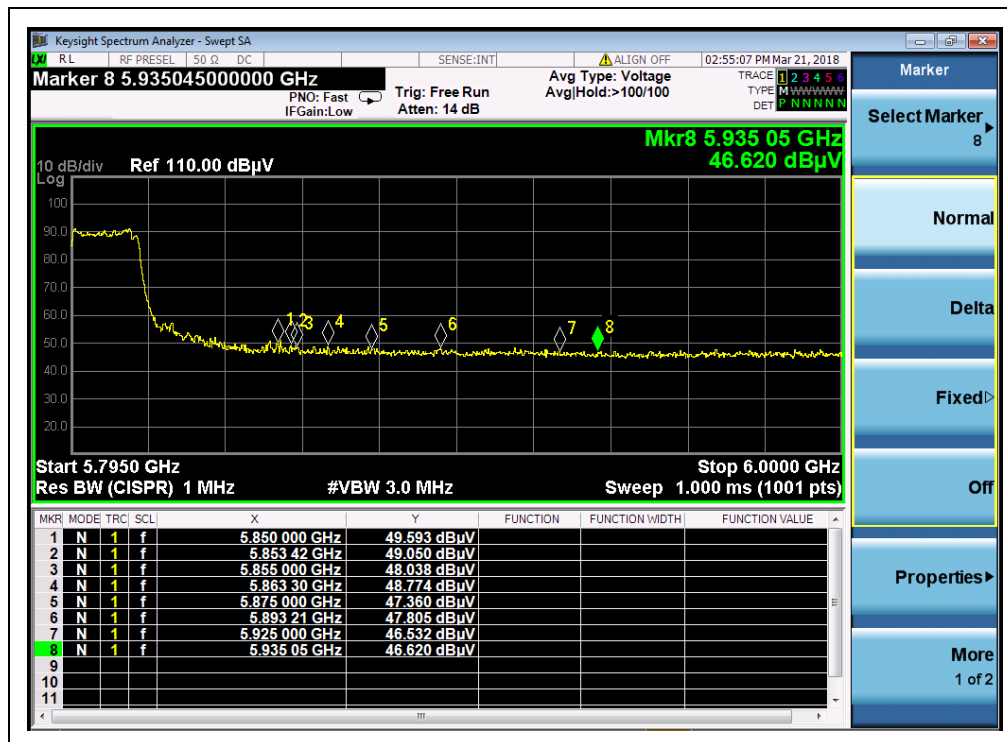


(Channel 142, PEAK, 802.11n (HT40))

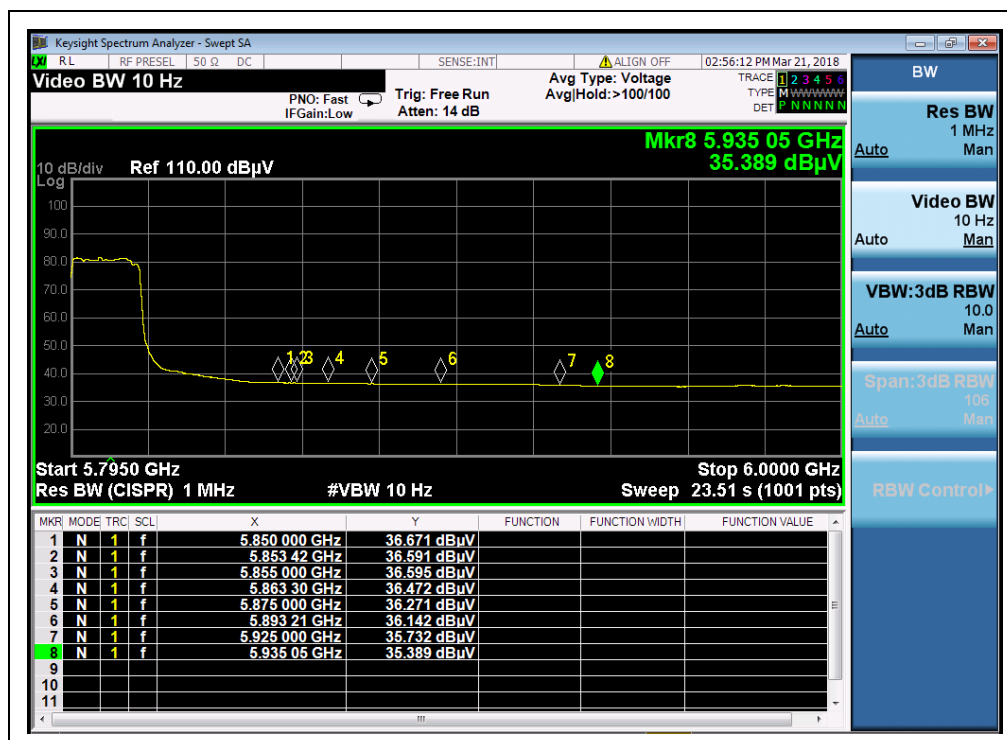


(Channel 142, AVG, 802.11n (HT40))





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

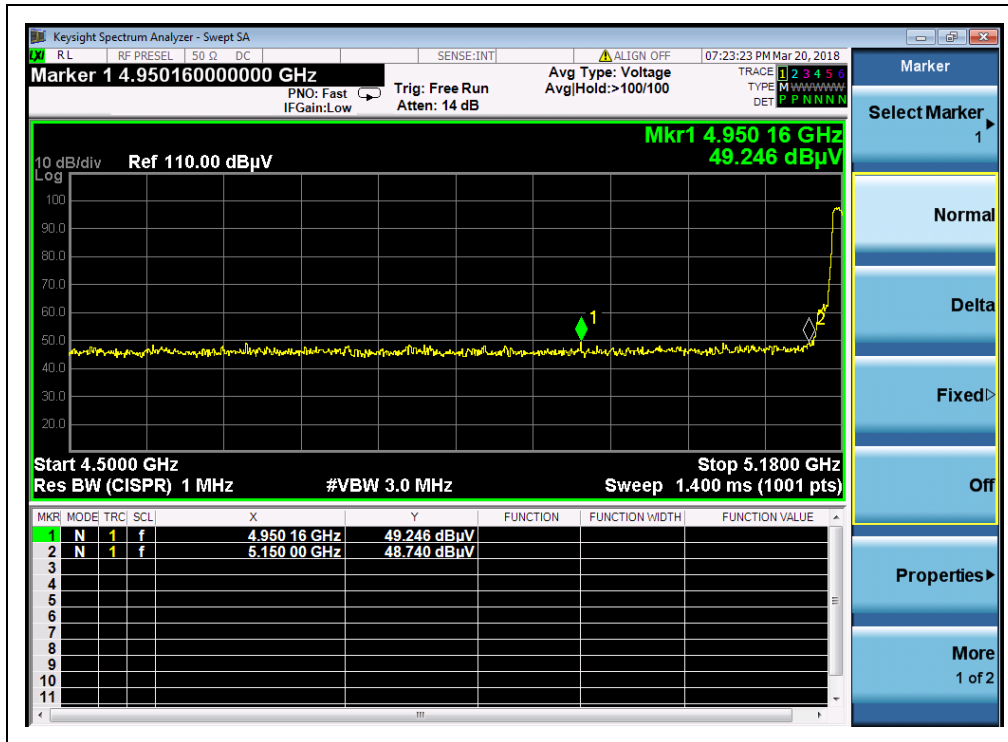


(Channel 159, AVG, 802.11n (HT40))

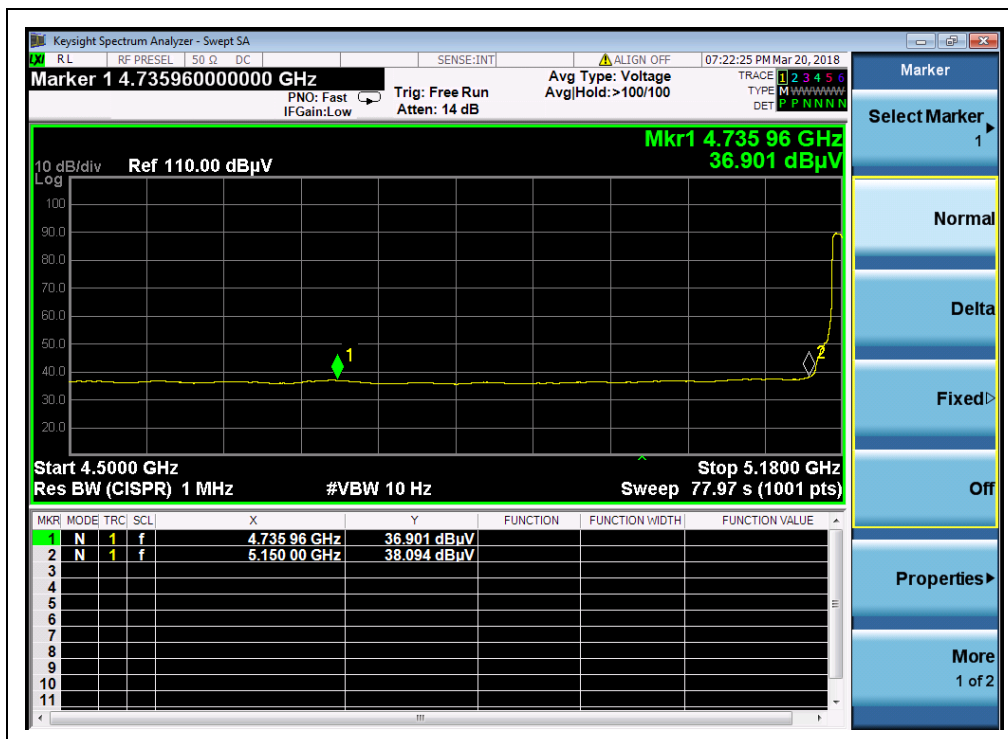
**802.11ac (VHT20) Test mode****A. Test Verdict:**

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBuV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
36	4950.16	PK	49.25	-50.65	32.11	30.71	74	PASS
36	4735.96	AV	36.90	-50.15	31.92	18.67	54	PASS
64	5356.72	PK	46.64	-52.24	31.57	25.97	74	PASS
64	5370.72	AV	35.08	-52.24	31.57	14.41	54	PASS
100	5328.44	PK	46.38	-51.67	31.86	26.57	74	PASS
100	5306.00	AV	35.99	-51.67	31.86	16.18	54	PASS
144	5727.40	PK	51.25	-53.17	32.98	31.06	68.23	PASS
144	5765.50	AV	36.94	-53.12	32.96	16.78	54	PASS
149	5722.15	PK	53.58	-53.37	33.28	33.49	115.73	PASS
149	5722.44	AV	38.31	-53.25	33.31	18.37	54	PASS
165	5868.30	PK	53.06	-53.53	33.46	32.99	73.59	PASS
165	5851.40	AV	37.62	-53.55	33.42	17.49	54	PASS

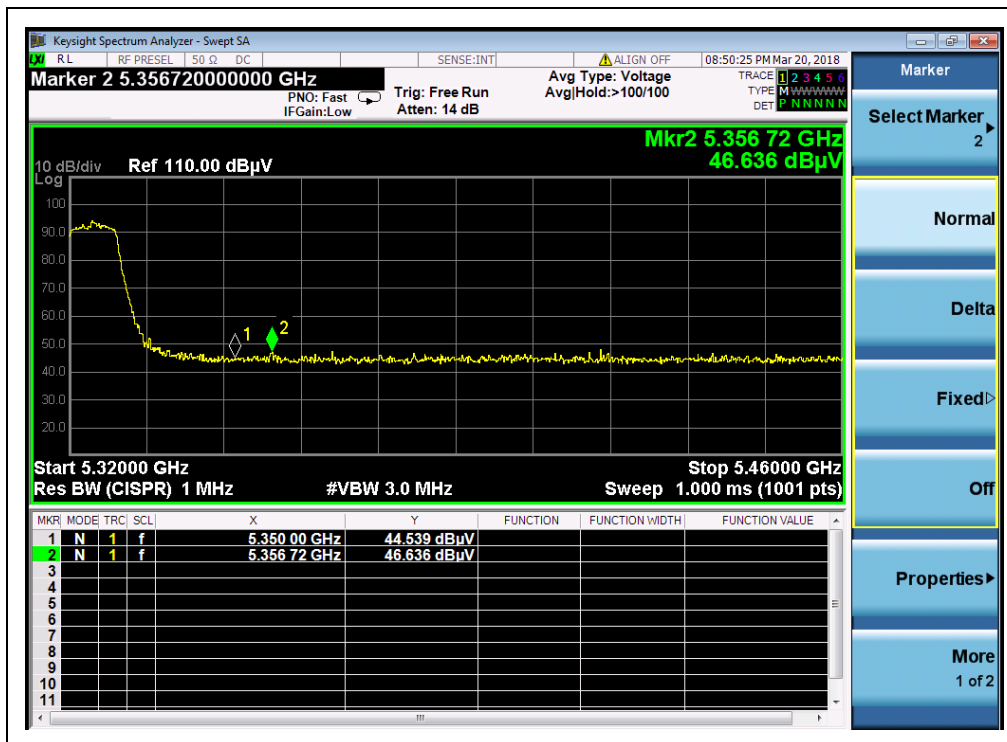
B. Test Plots:



(Channel 36, PEAK, 802.11ac (VHT20))



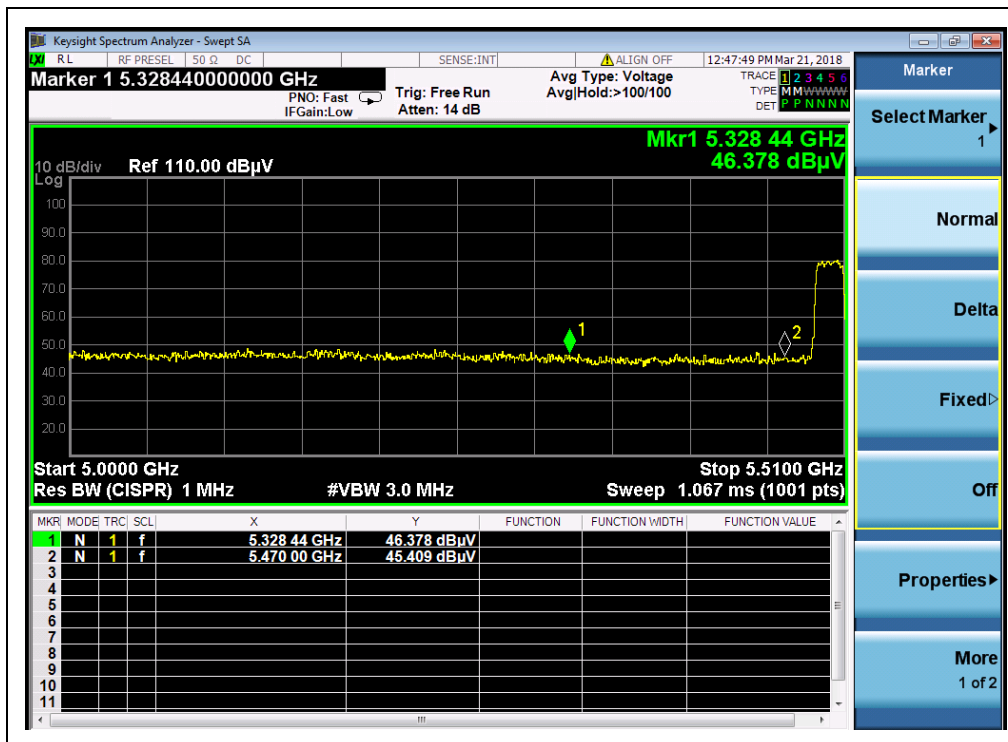
(Channel 36, AVG, 802.11ac (VHT20))



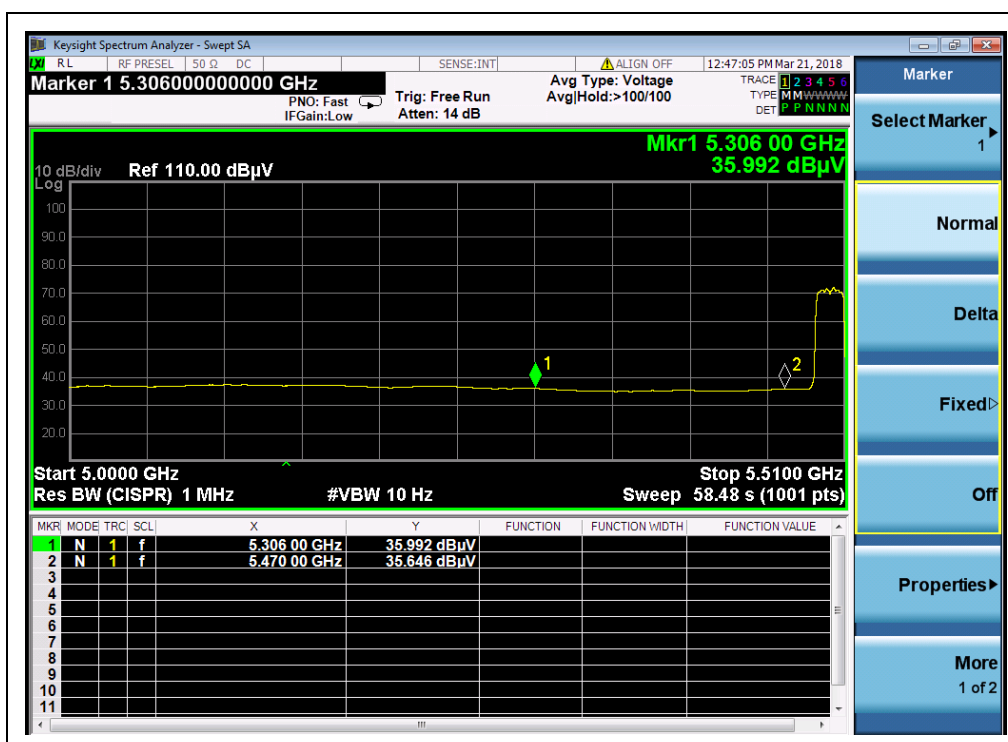
(Channel 64, PEAK, 802.11ac (VHT20))



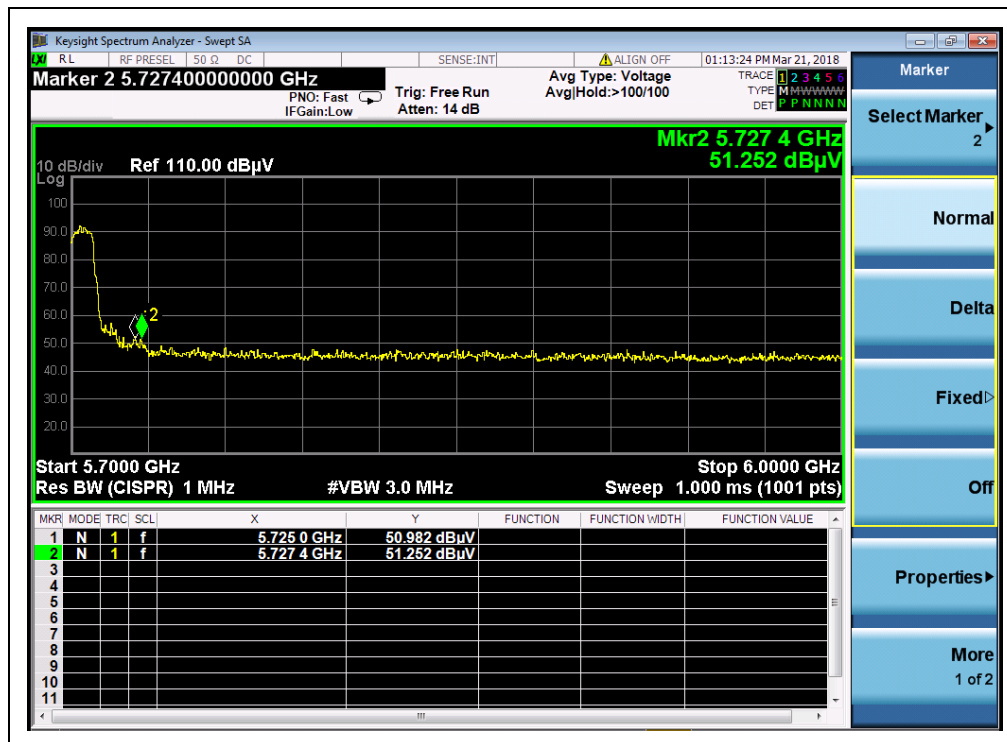
(Channel 64, AVG, 802.11ac (VHT20))



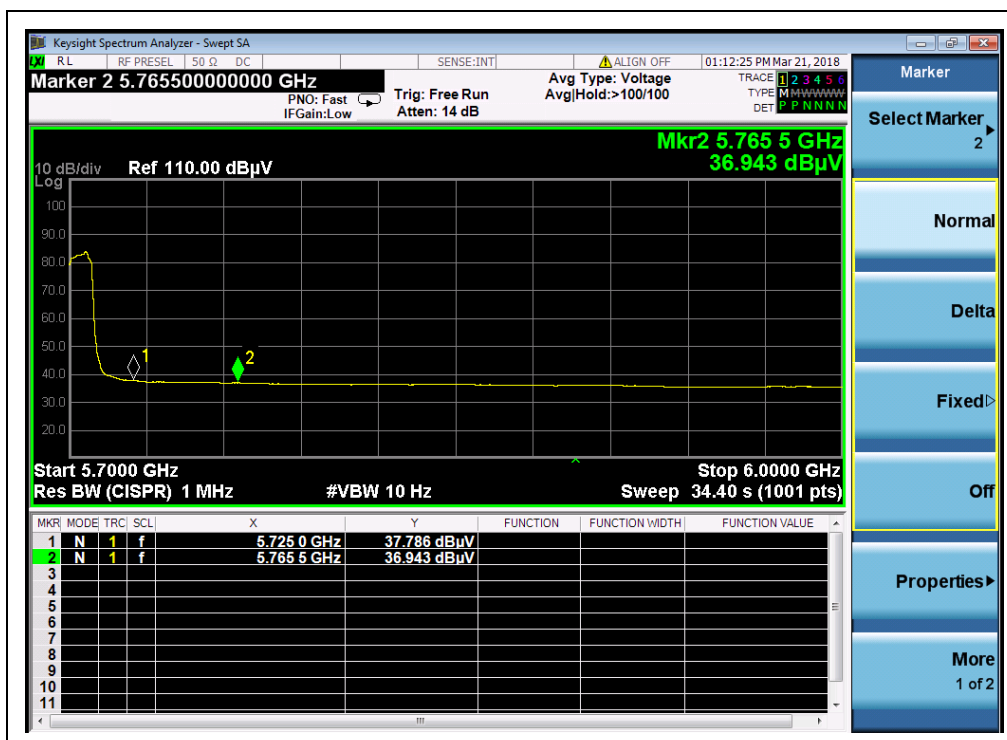
(Channel 100, PEAK, 802.11ac (VHT20))



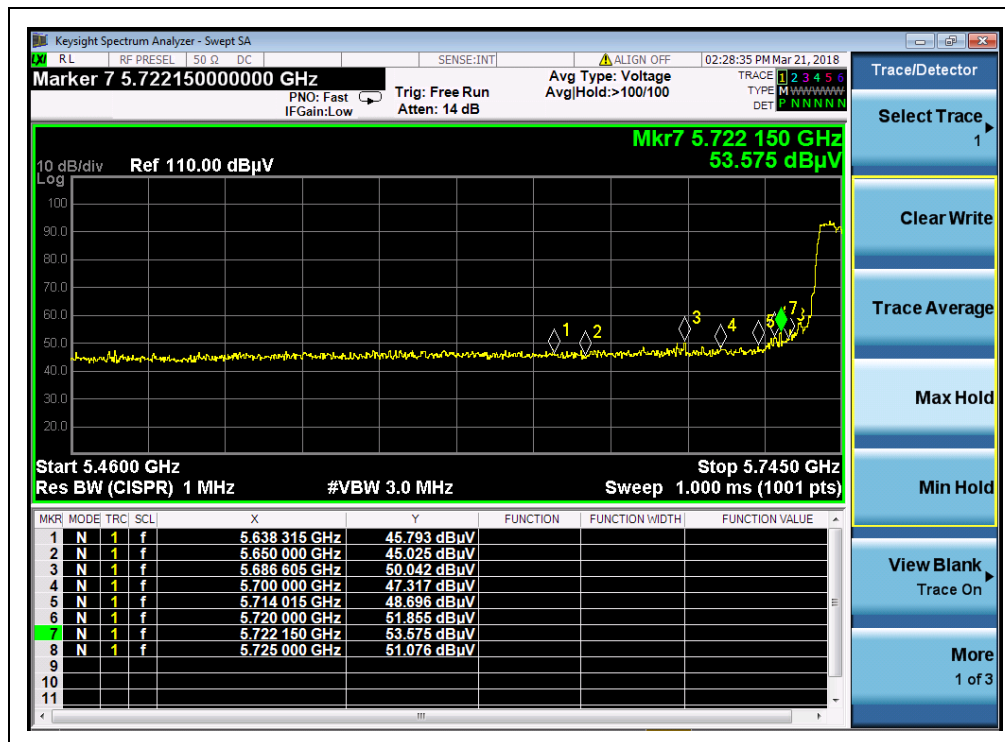
(Channel 100, AVG, 802.11ac (VHT20))



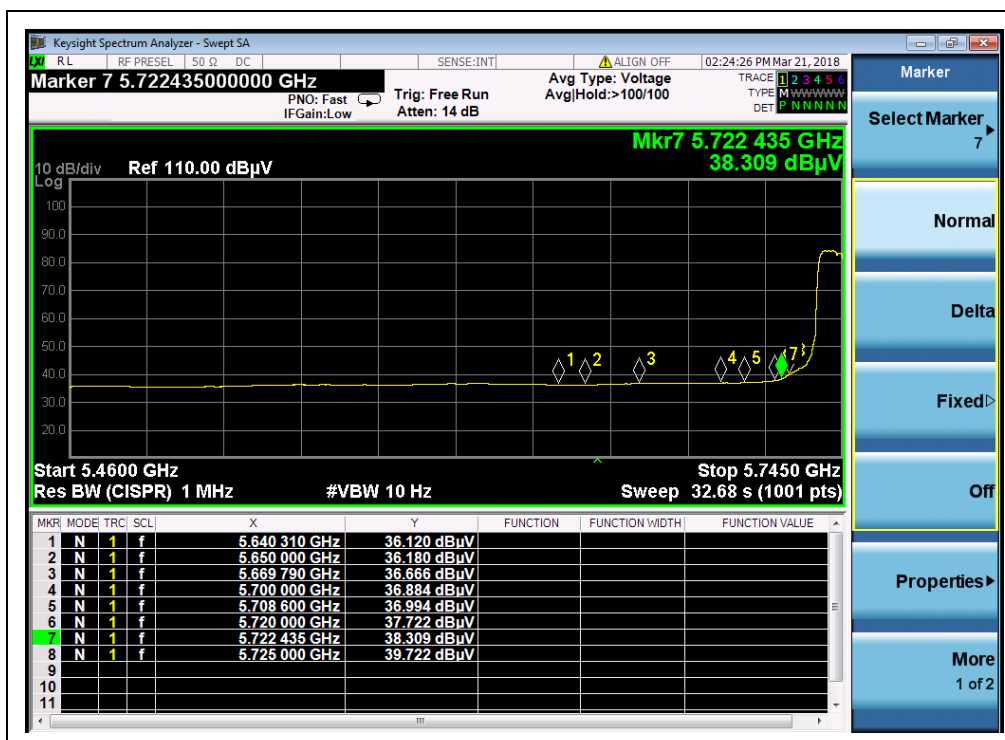
(Channel 144, PEAK, 802.11ac (VHT20))



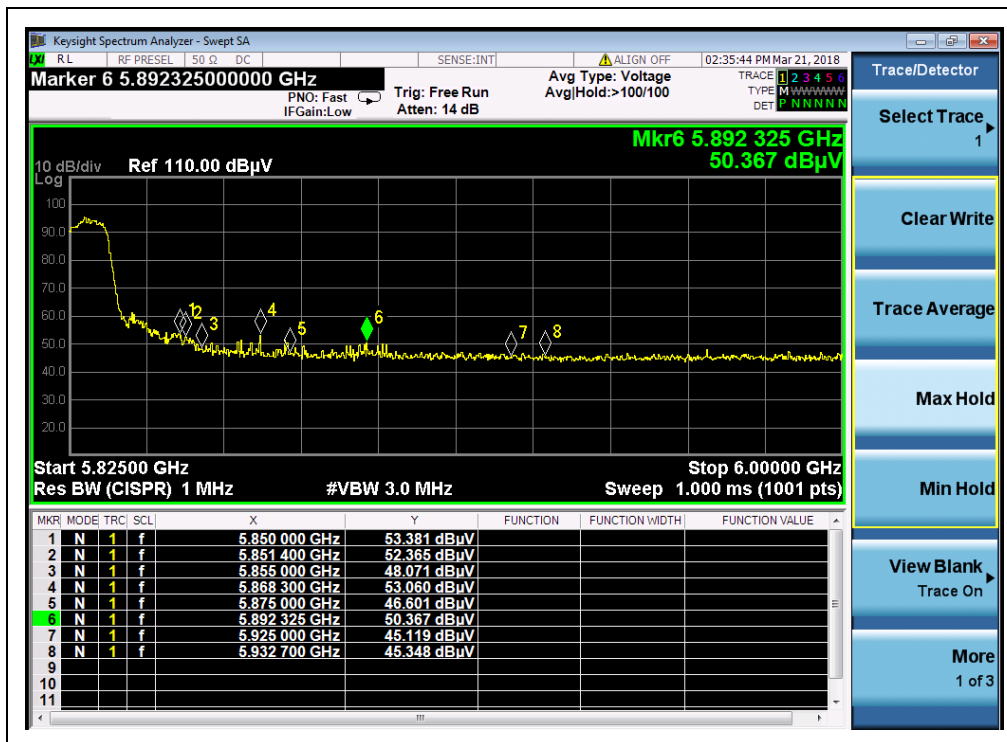
(Channel 144, AVG, 802.11ac (VHT20))



(Channel 149, PEAK, 802.11ac (VHT20))



(Channel 149, AVG, 802.11ac (VHT20))



(Channel 165, PEAK, 802.11ac (VHT20))

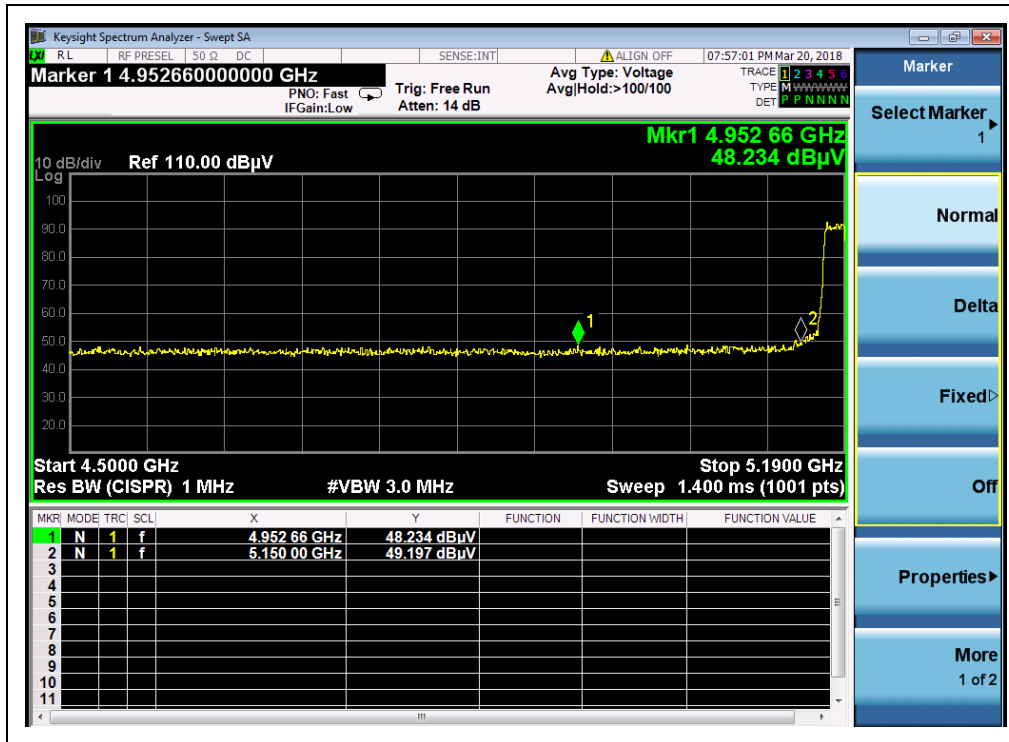


(Channel 165, AVG, 802.11ac (VHT20))

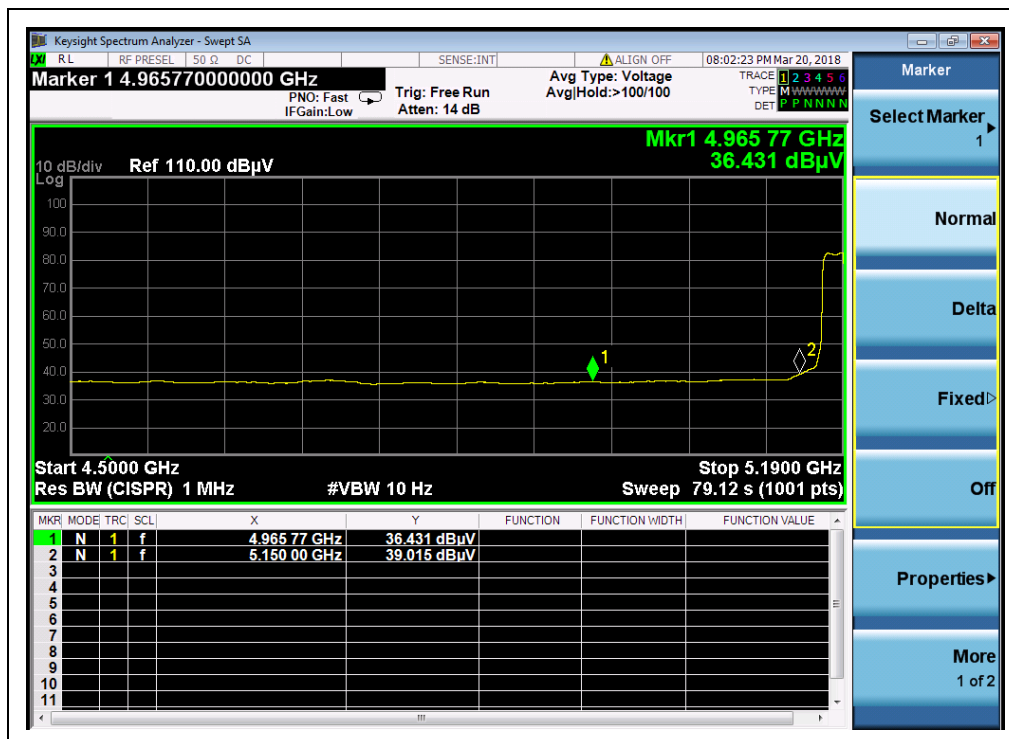
**802.11ac (VHT40) Test mode****A. Test Verdict:**

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBuV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
38	4952.66	PK	48.23	-50.65	32.11	29.69	74	PASS
38	4965.77	AV	36.43	-50.15	31.92	18.20	54	PASS
62	5355.55	PK	45.85	-52.24	31.57	25.18	74	PASS
62	5355.85	AV	35.40	-52.24	31.57	14.73	54	PASS
102	5304.76	PK	49.04	-51.67	31.86	29.23	74	PASS
102	5304.76	AV	35.98	-51.67	31.86	16.17	54	PASS
142	5750.77	PK	48.13	-53.17	32.98	27.94	68.23	PASS
142	5895.31	AV	36.07	-53.12	32.96	15.91	54	PASS
151	5721.46	PK	51.42	-53.37	33.28	31.33	114.16	PASS
151	5721.46	AV	39.06	-53.25	33.31	19.12	54	PASS
159	5854.65	PK	48.26	-53.53	33.46	28.19	111.63	PASS
159	5851.78	AV	36.65	-53.55	33.42	16.52	54	PASS

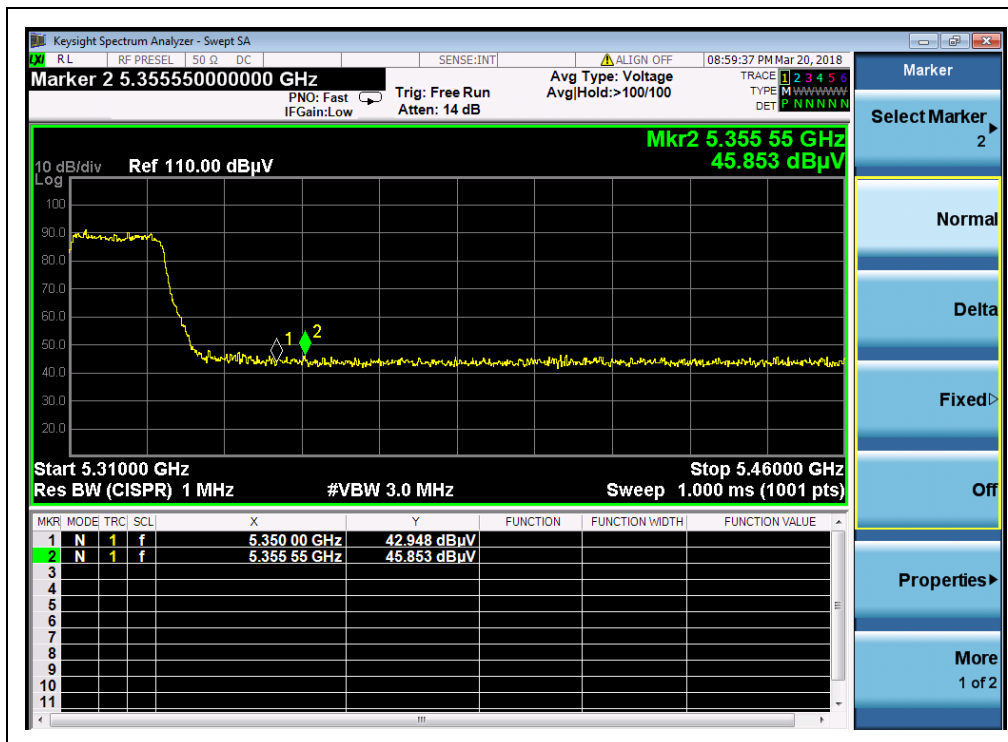
B. Test Plots:



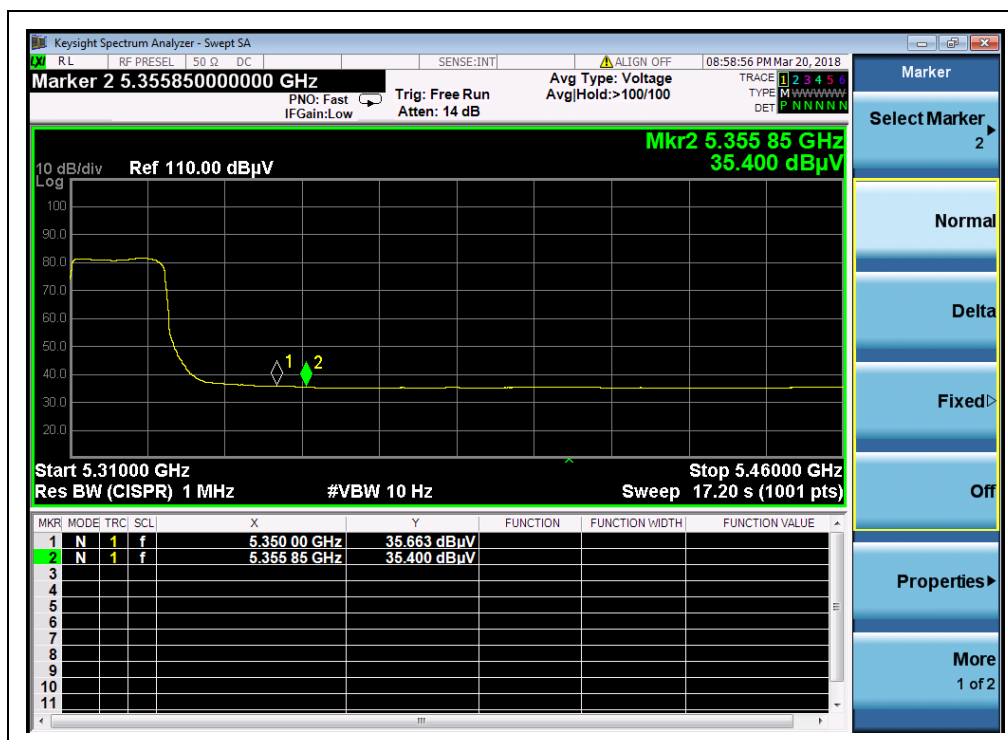
(Channel 38, PEAK, 802.11ac (VHT40))



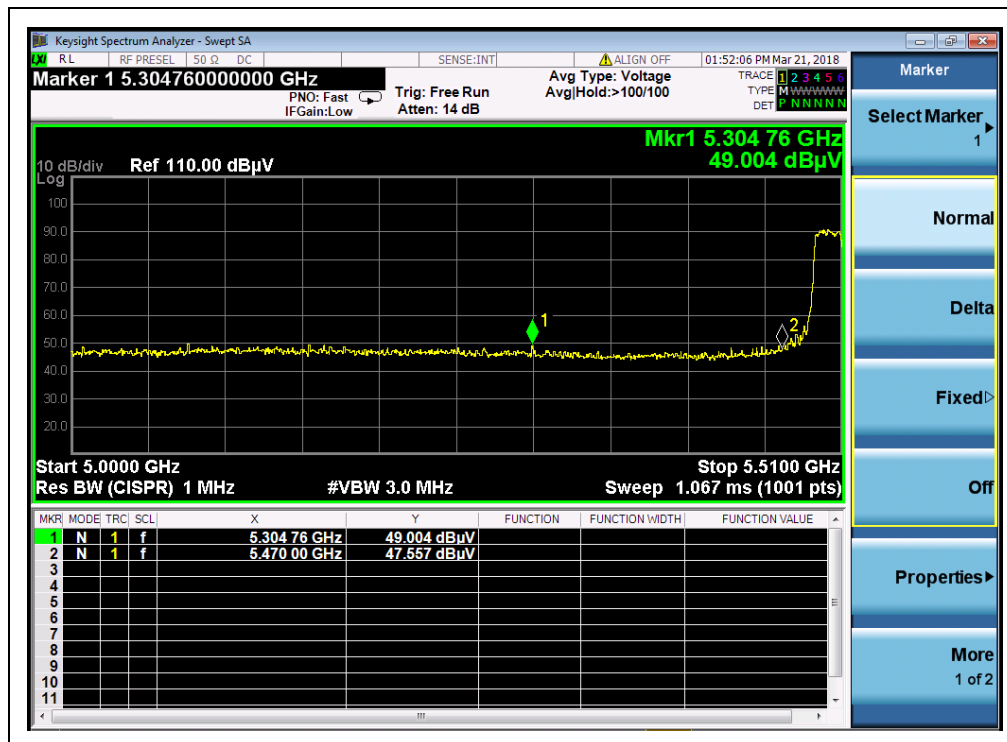
(Channel 38, AVG, 802.11 ac (VHT40))



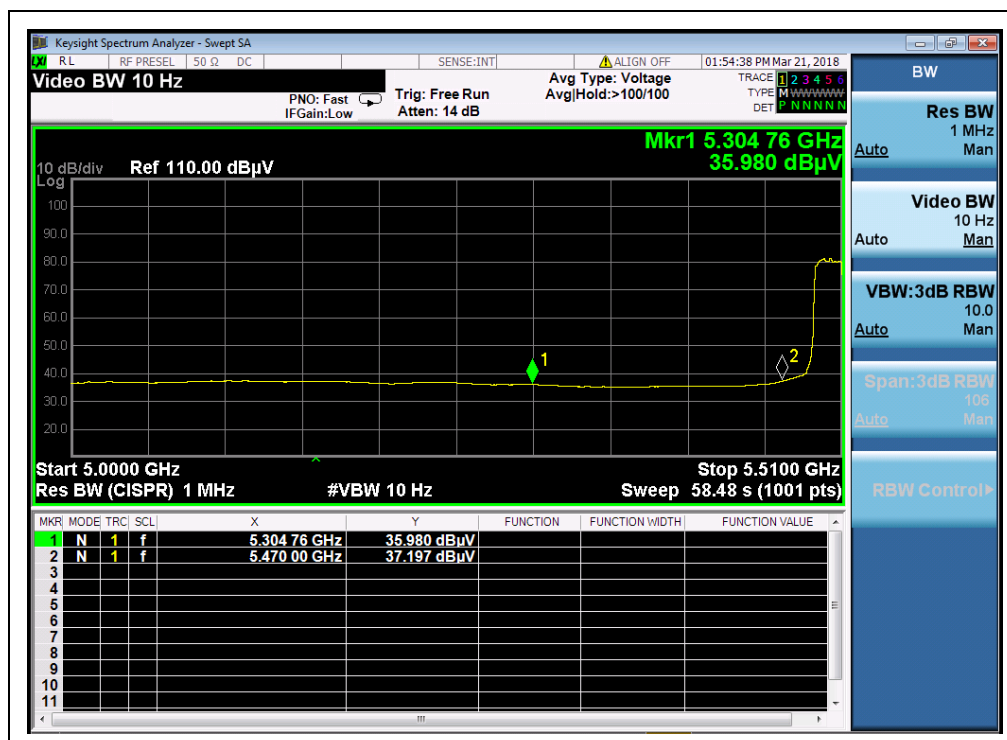
(Channel 62, PEAK, 802.11 ac (VHT40))



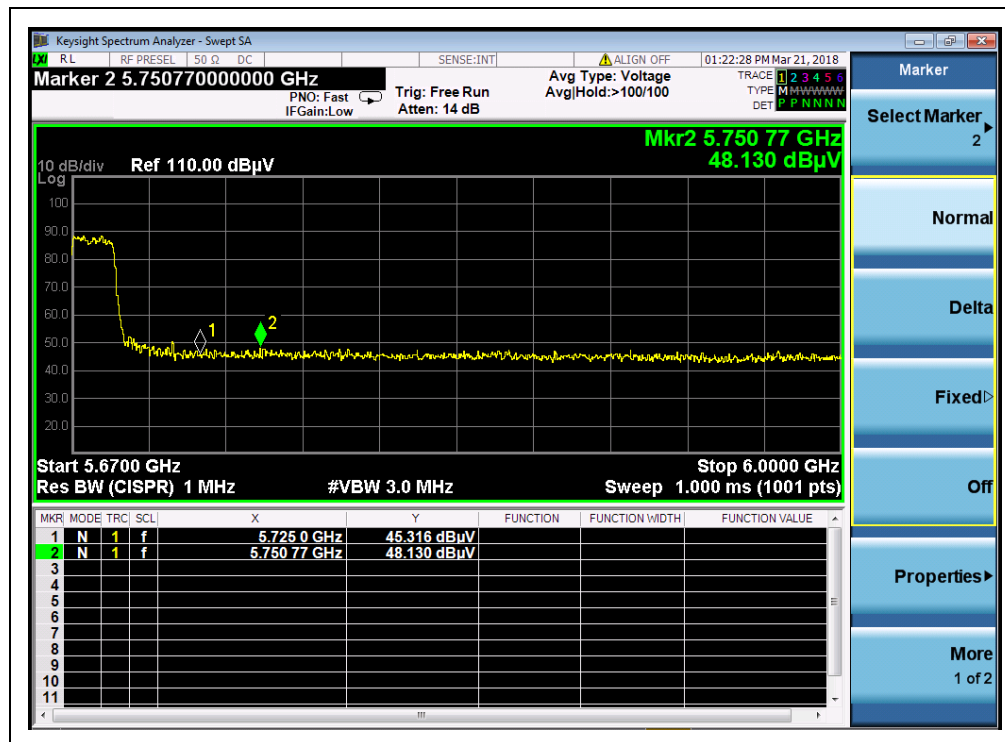
(Channel 62, AVG, 802.11 ac (VHT40))



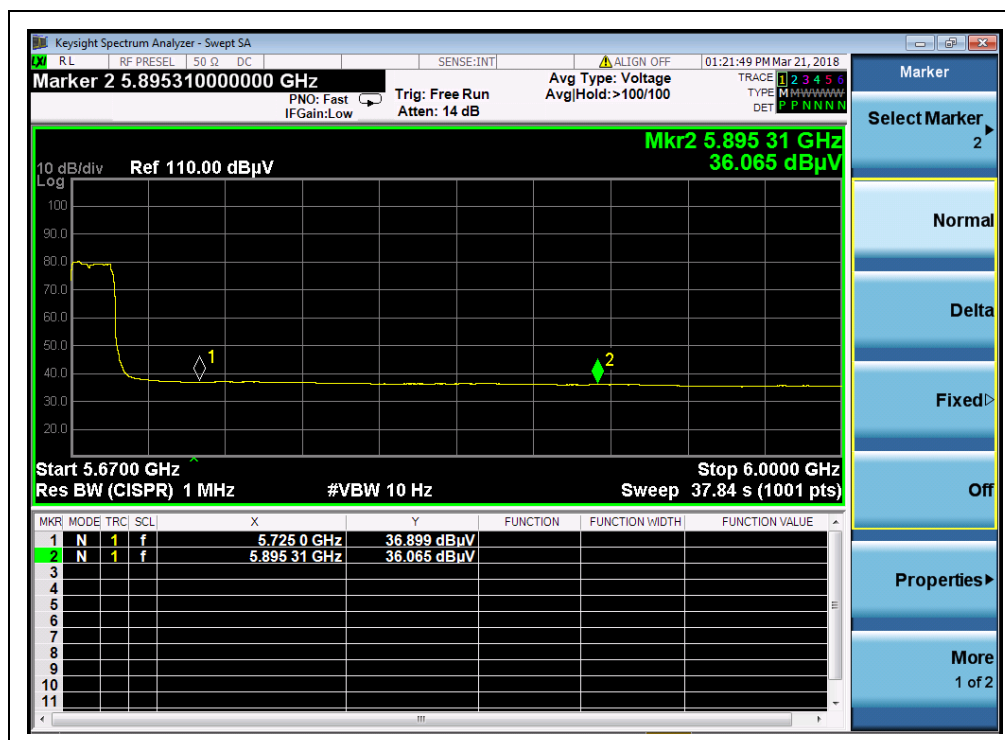
(Channel 102, PEAK, 802.11 ac (VHT40))



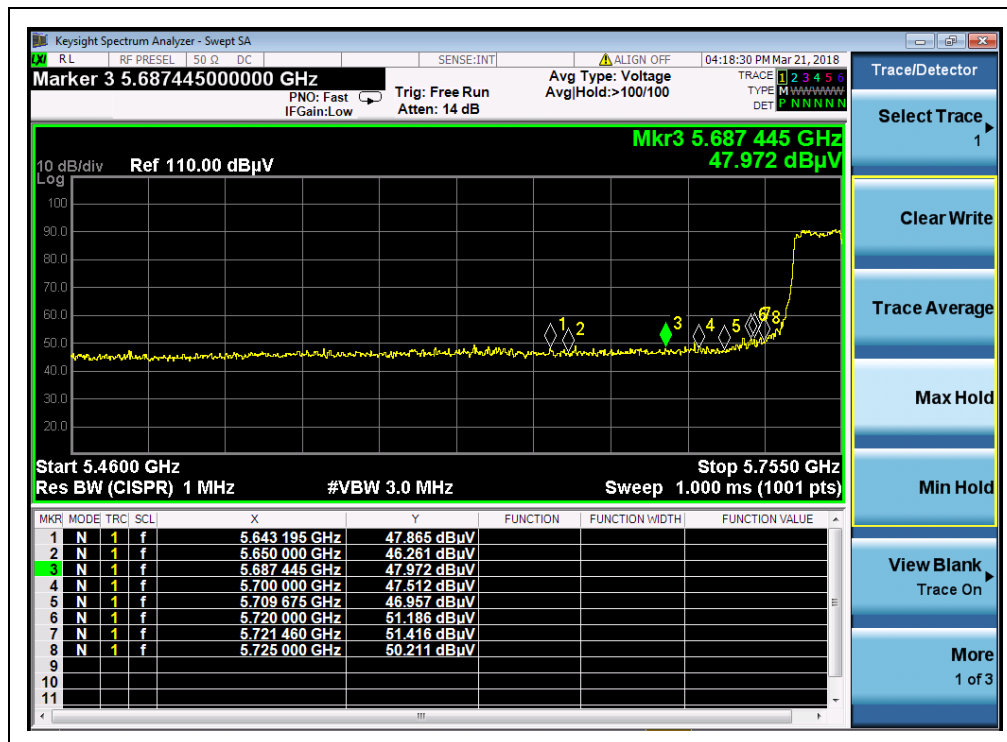
(Channel 102, AVG, 802.11 ac (VHT40))



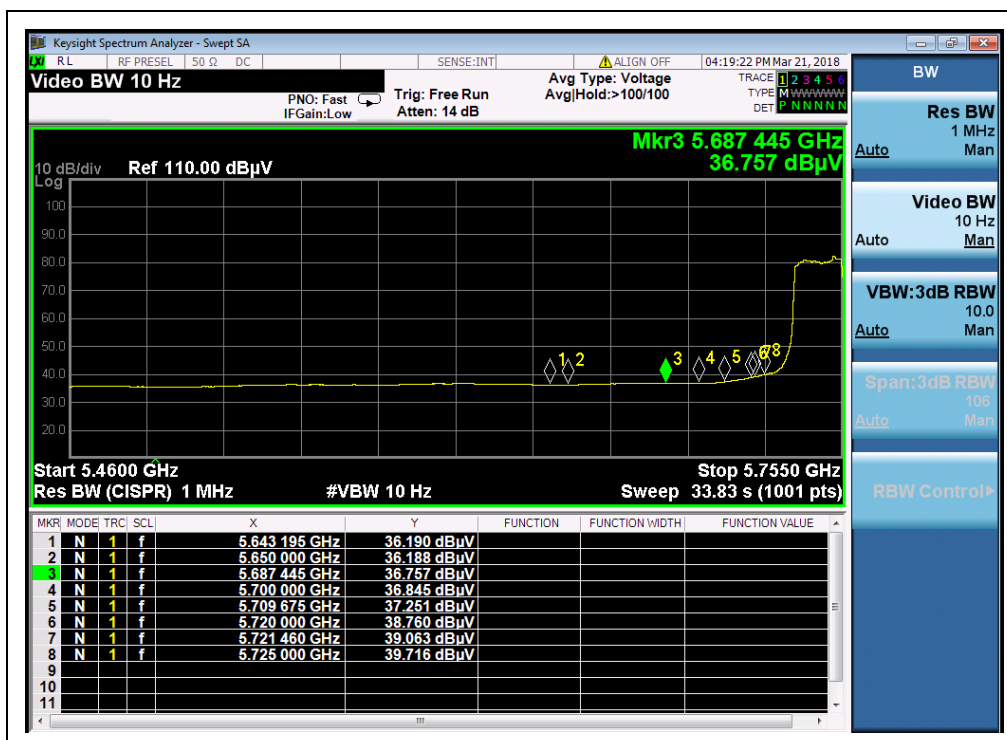
(Channel 142, PEAK, 802.11 ac (VHT40))



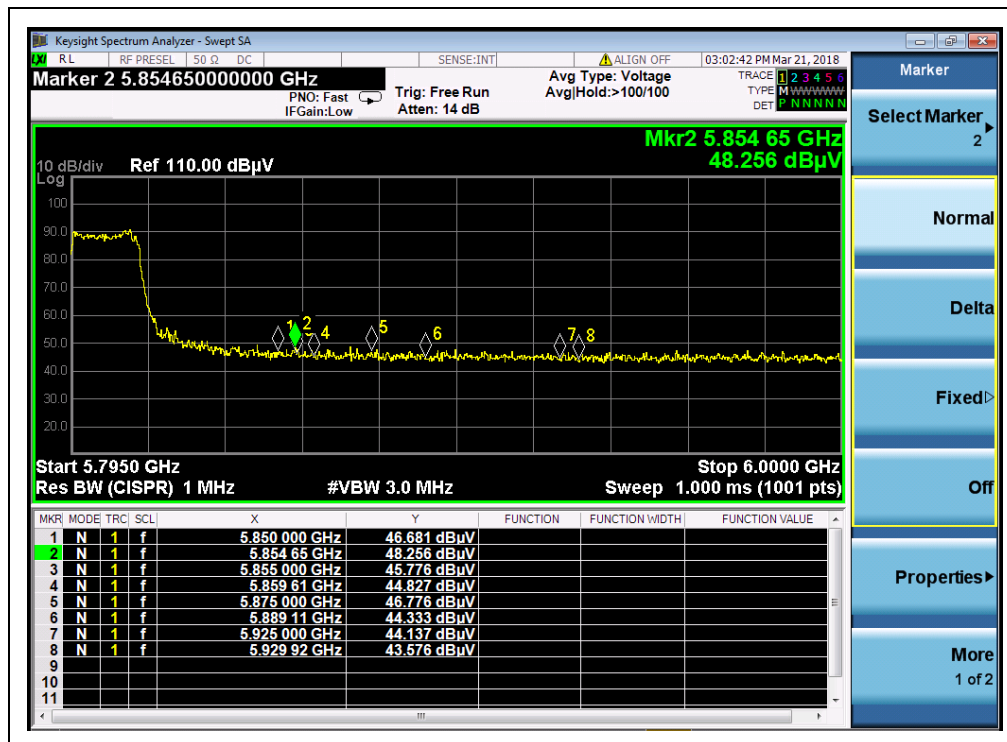
(Channel 142, AVG, 802.11 ac (VHT40))



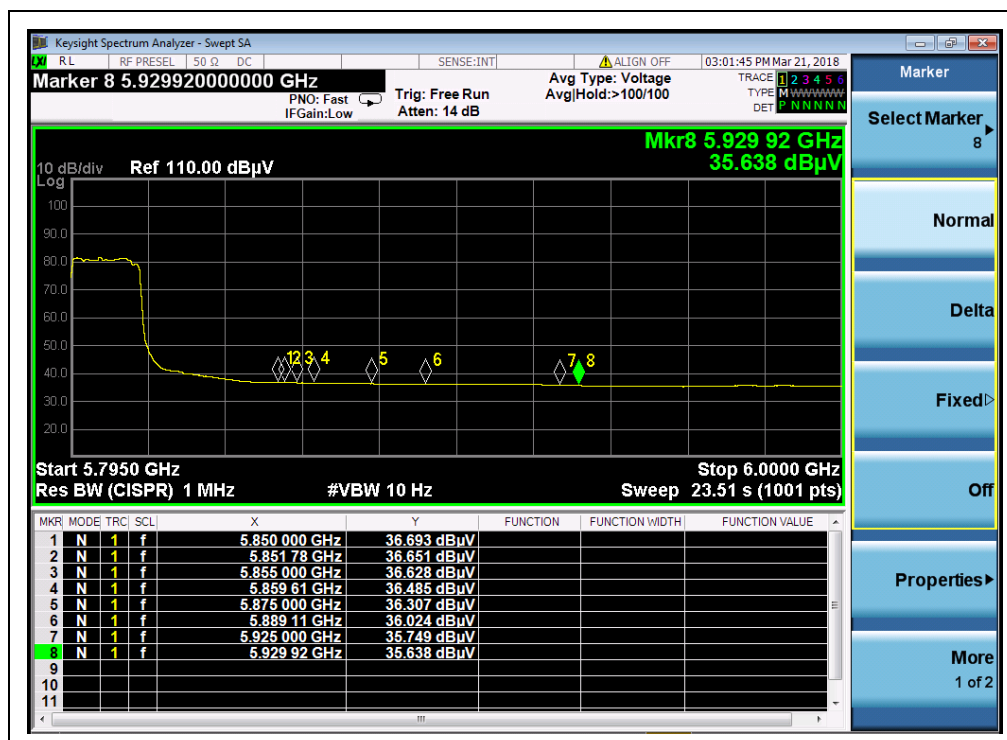
(Channel 151, PEAK, 802.11 ac (VHT40))



(Channel 151, AVG, 802.11 ac (VHT40))



(Channel 159, PEAK, 802.11 ac (VHT40))



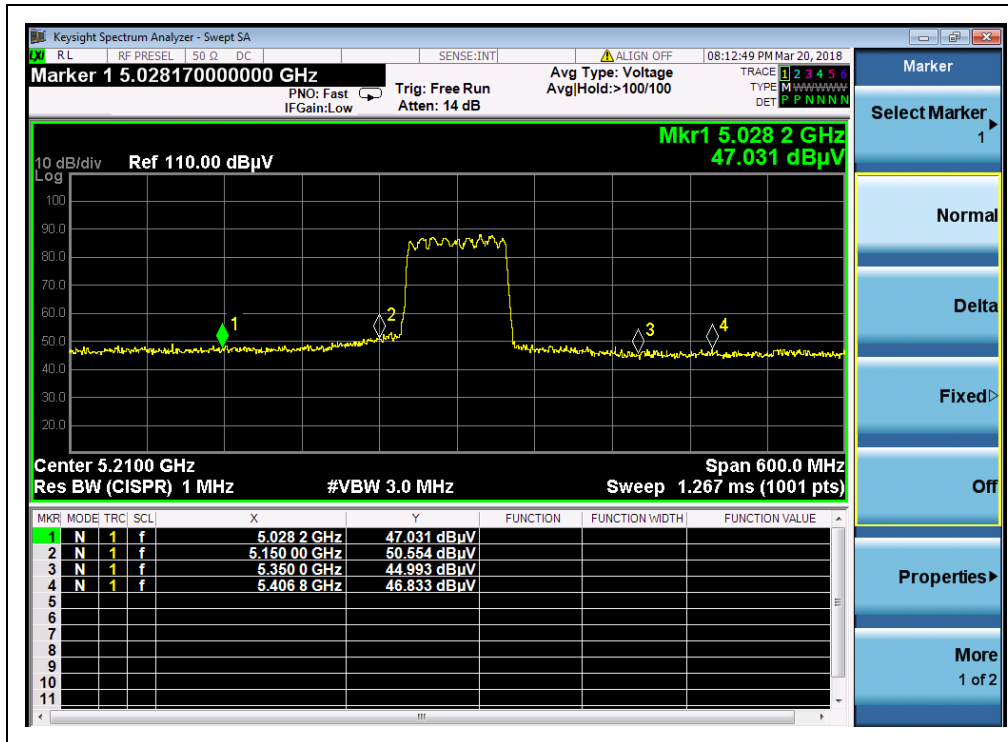
(Channel 159, AVG, 802.11 ac (VHT40))

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

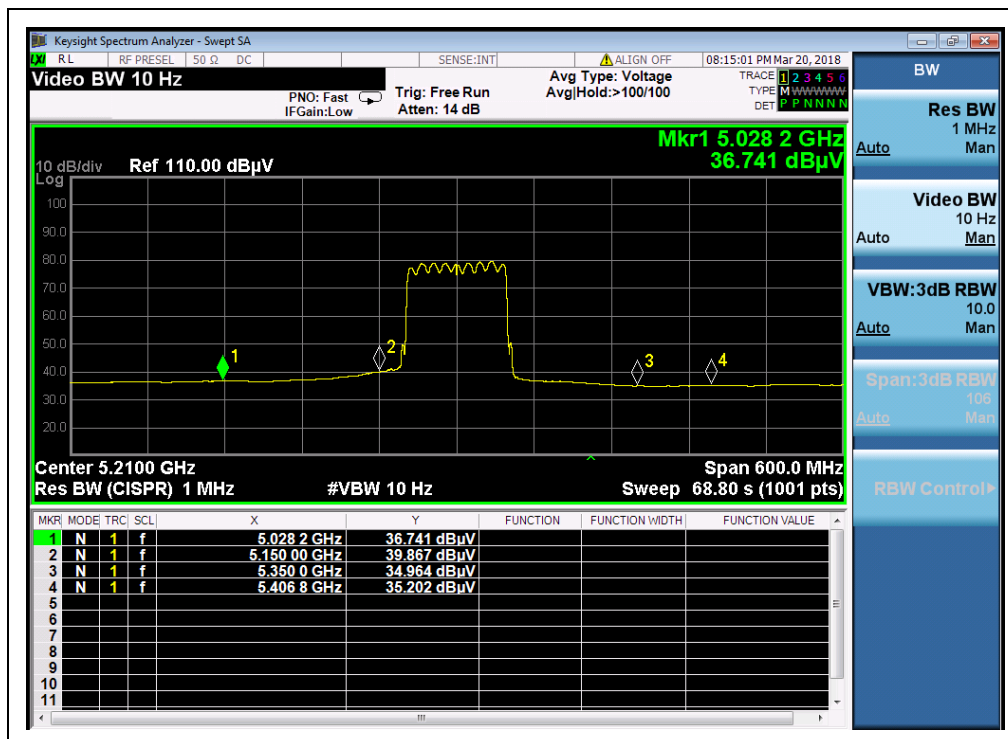
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBuV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
42	5028.20	PK	47.03	-50.65	32.11	28.49	74	PASS
42	5028.20	AV	36.74	-50.15	31.92	18.51	54	PASS
58	5473.60	PK	46.98	-52.24	31.57	26.31	74	PASS
58	5473.60	AV	35.56	-52.24	31.57	14.89	54	PASS
106	5249.20	PK	48.72	-51.67	31.86	28.91	74	PASS
106	5423.20	AV	35.30	-51.67	31.86	15.49	54	PASS
138	5751.60	PK	49.38	-53.17	32.98	29.19	68.23	PASS
138	5751.60	AV	36.76	-53.12	32.96	16.60	54	PASS
155	5622.00	PK	47.93	-53.37	33.28	27.84	114.16	PASS
155	5622.00	AV	36.56	-53.25	33.31	16.62	54	PASS
155	5923.80	PK	46.62	-53.53	33.46	26.55	111.63	PASS
155	5923.80	AV	35.76	-53.55	33.42	15.63	54	PASS



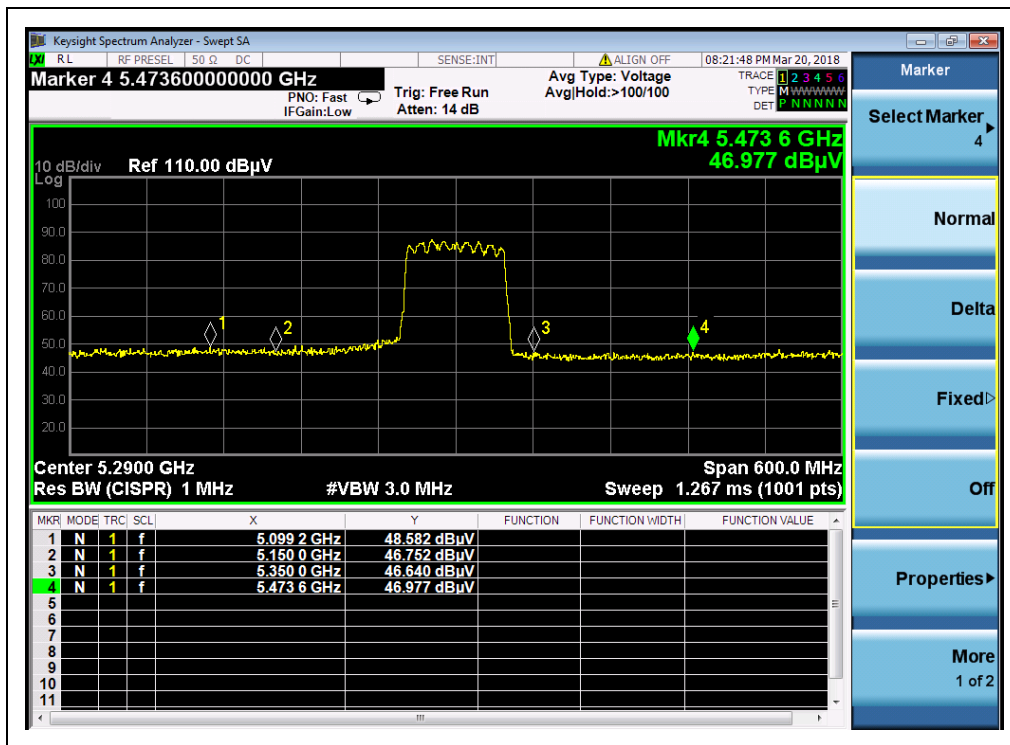
B. Test Plots:



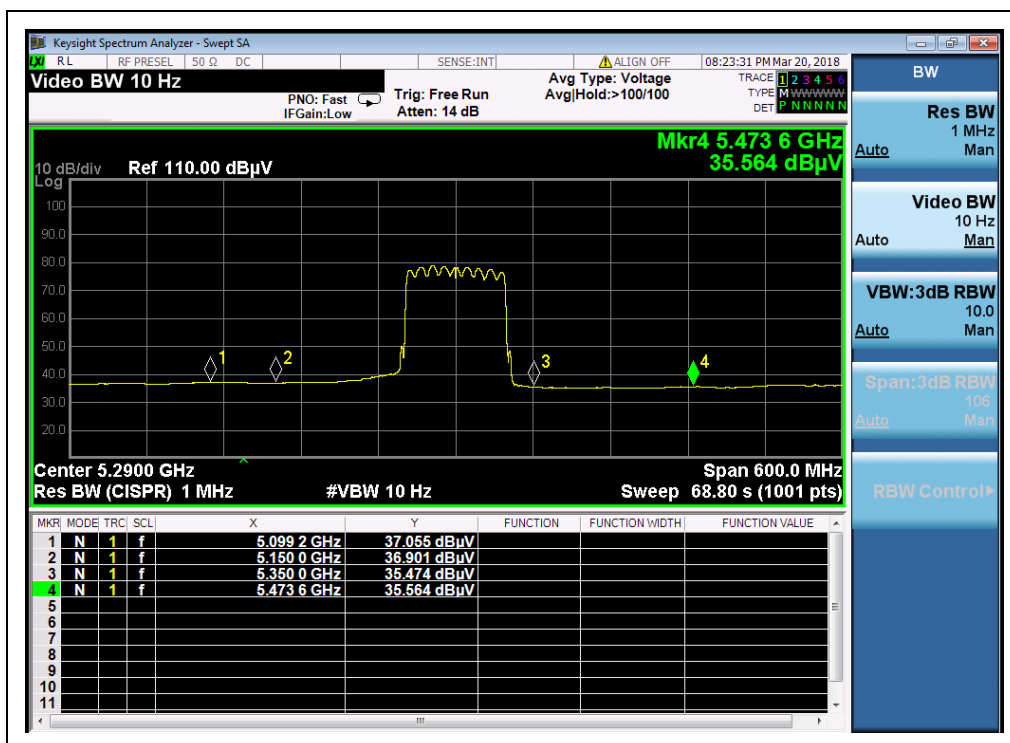
(Channel 42, PEAK, 802.11ac (VHT80))



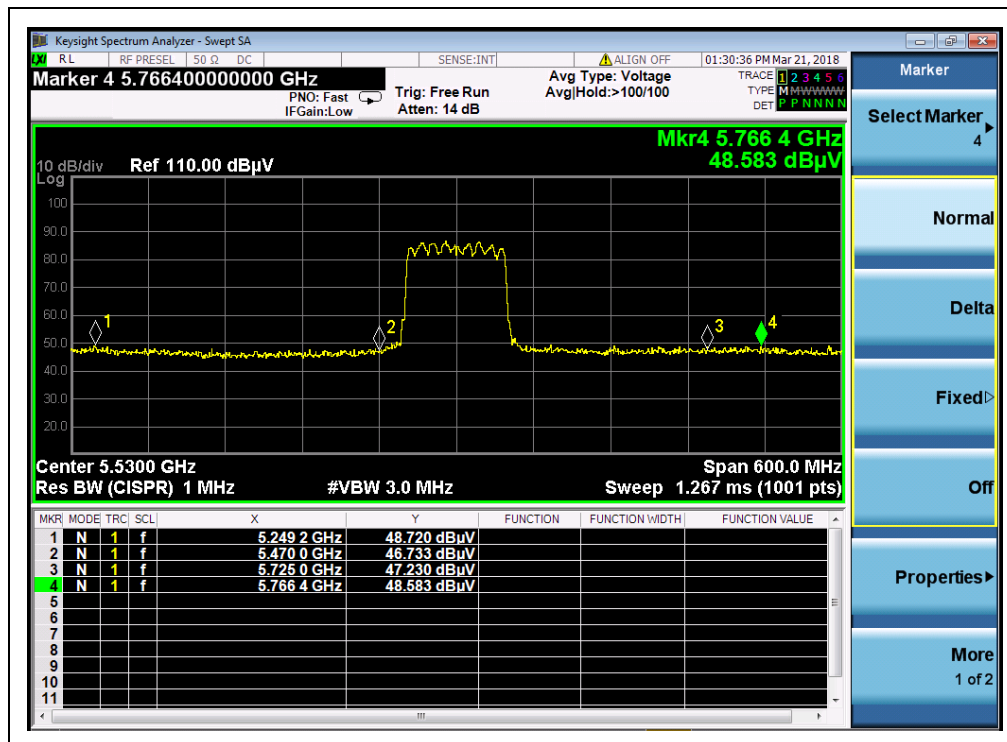
(Channel 42, AVG, 802.11 ac (VHT4=80))



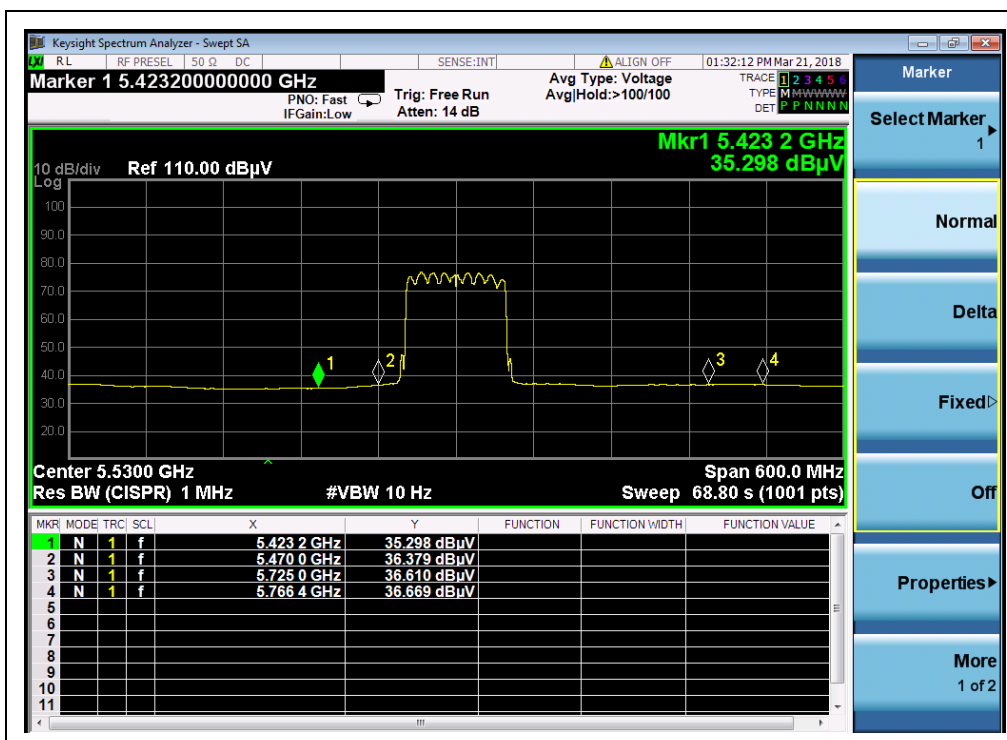
(Channel 58, PEAK, 802.11 ac (VHT40))



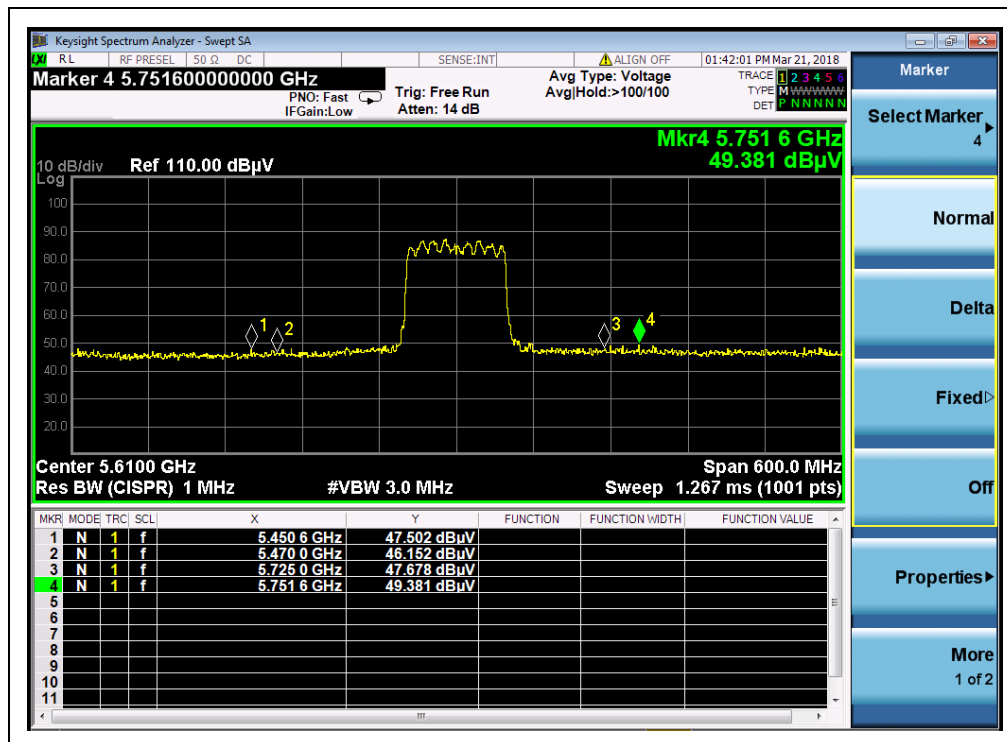
(Channel 58, AVG, 802.11 ac (VHT40))



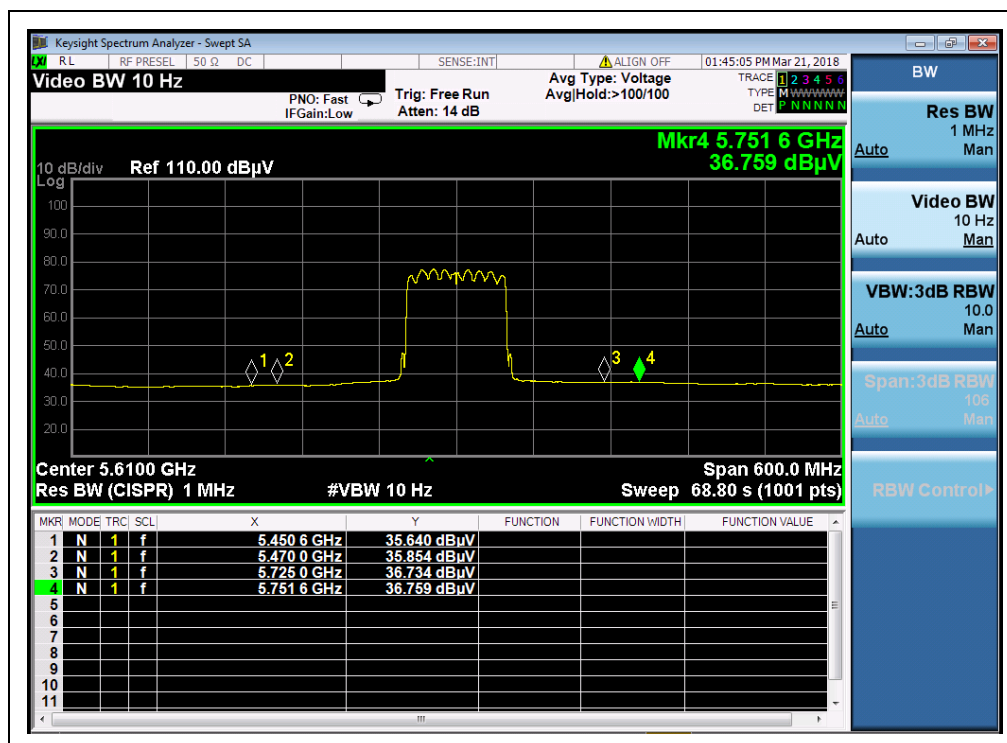
(Channel 106, PEAK, 802.11 ac (VHT80))



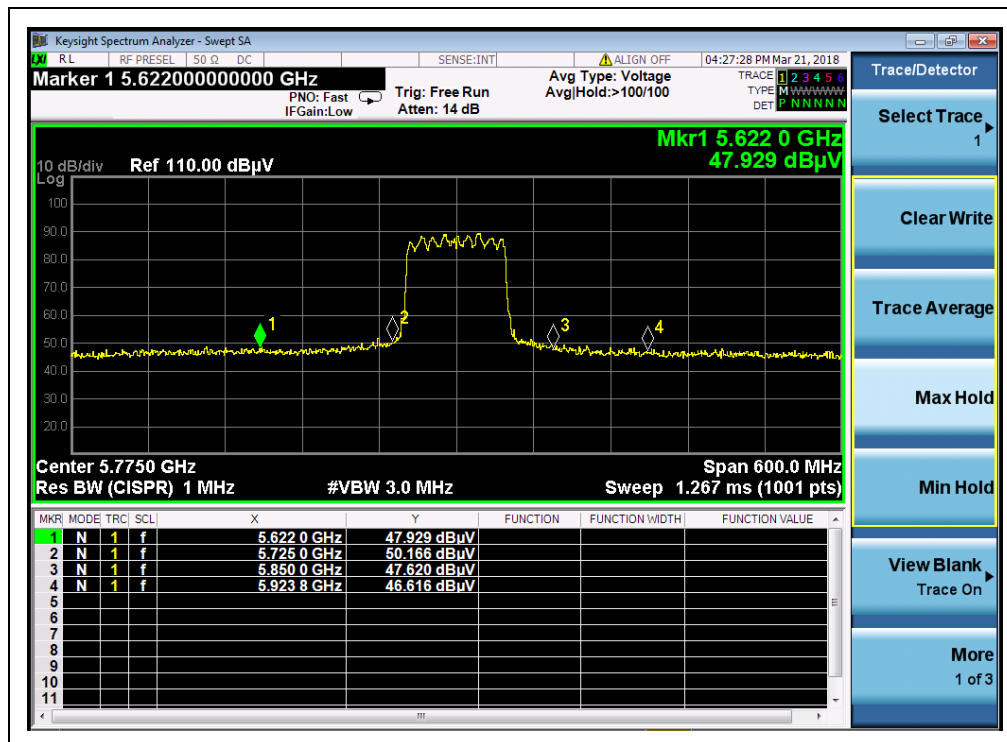
(Channel 106, AVG, 802.11 ac (VHT80))



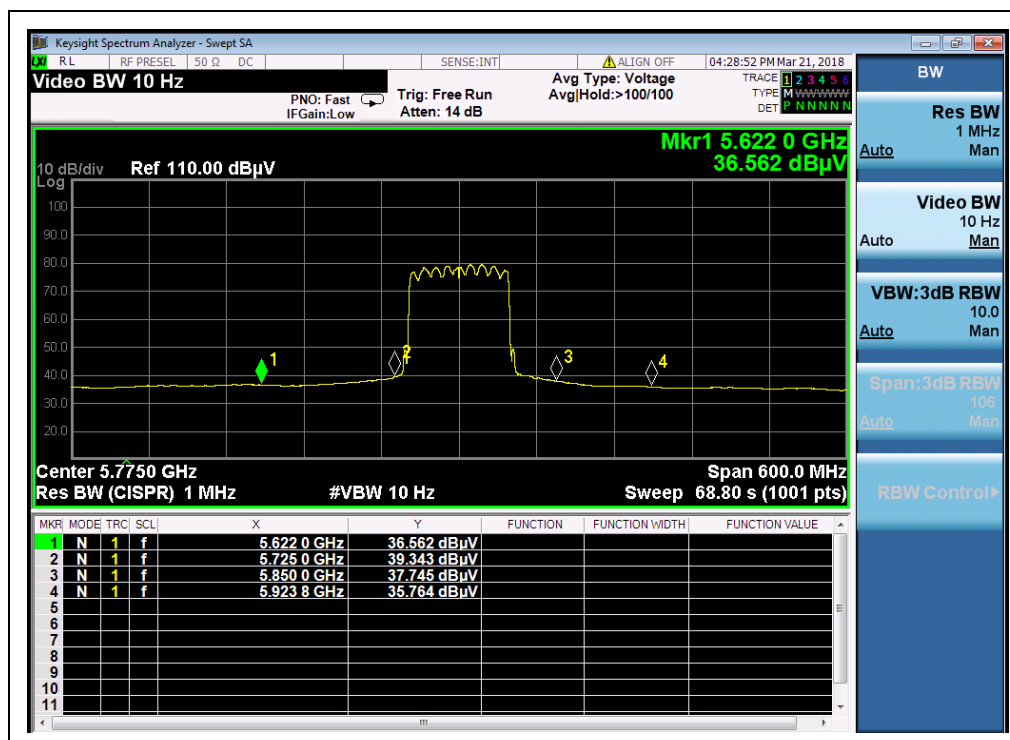
(Channel 138, PEAK, 802.11 ac (VHT80))



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



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



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

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).

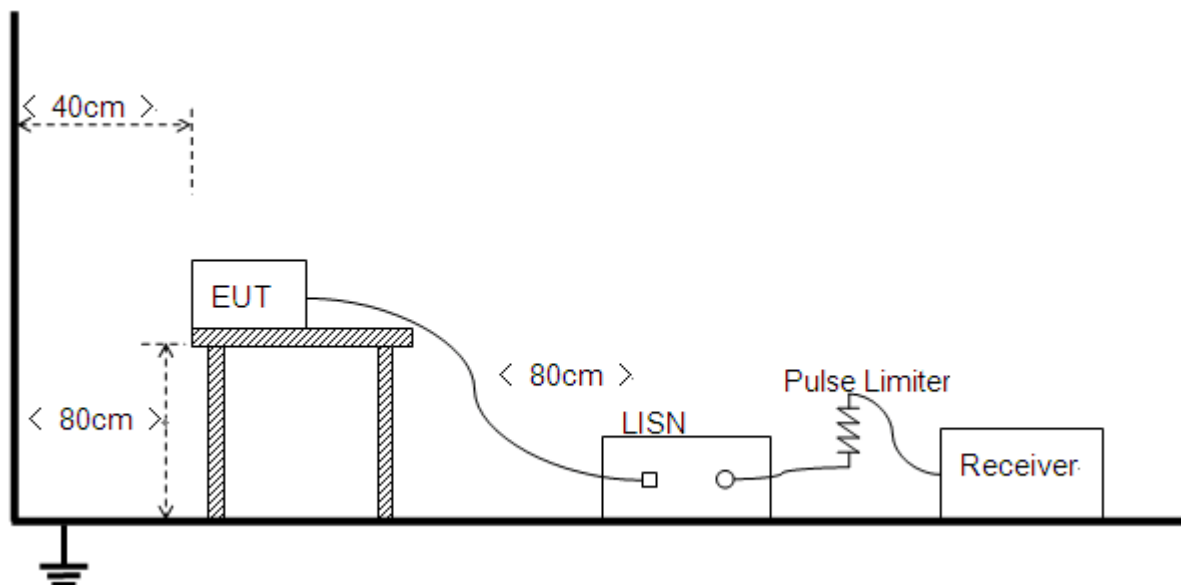
Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

NOTE:

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

2.7.2. Test Description

A. 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

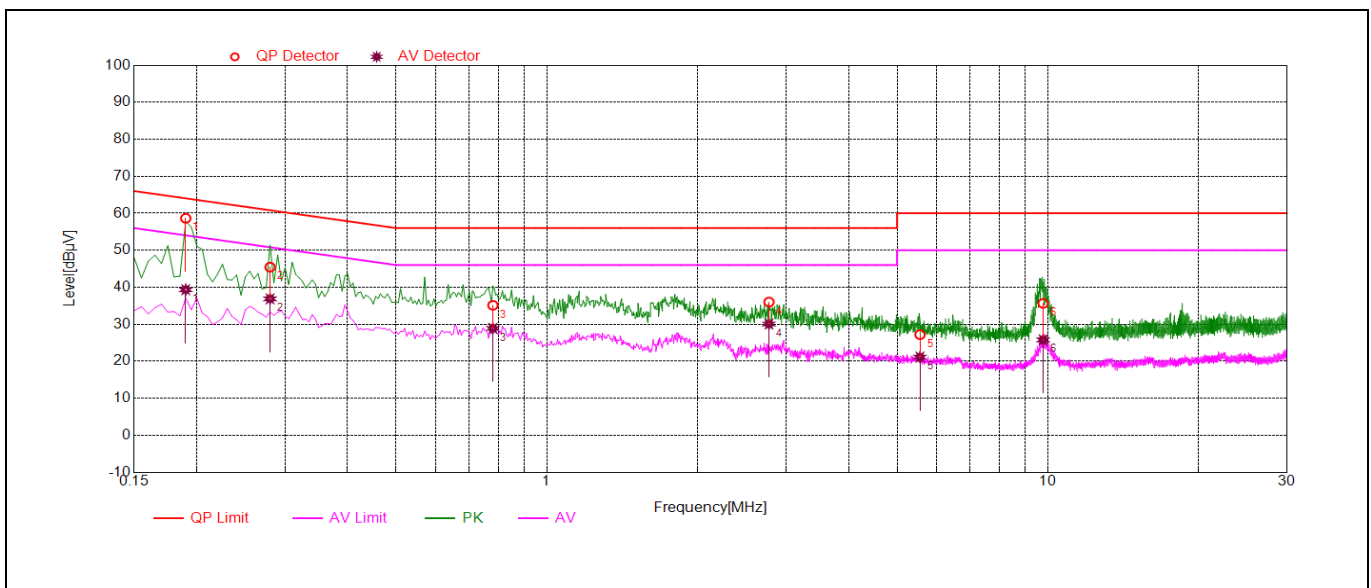
The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT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

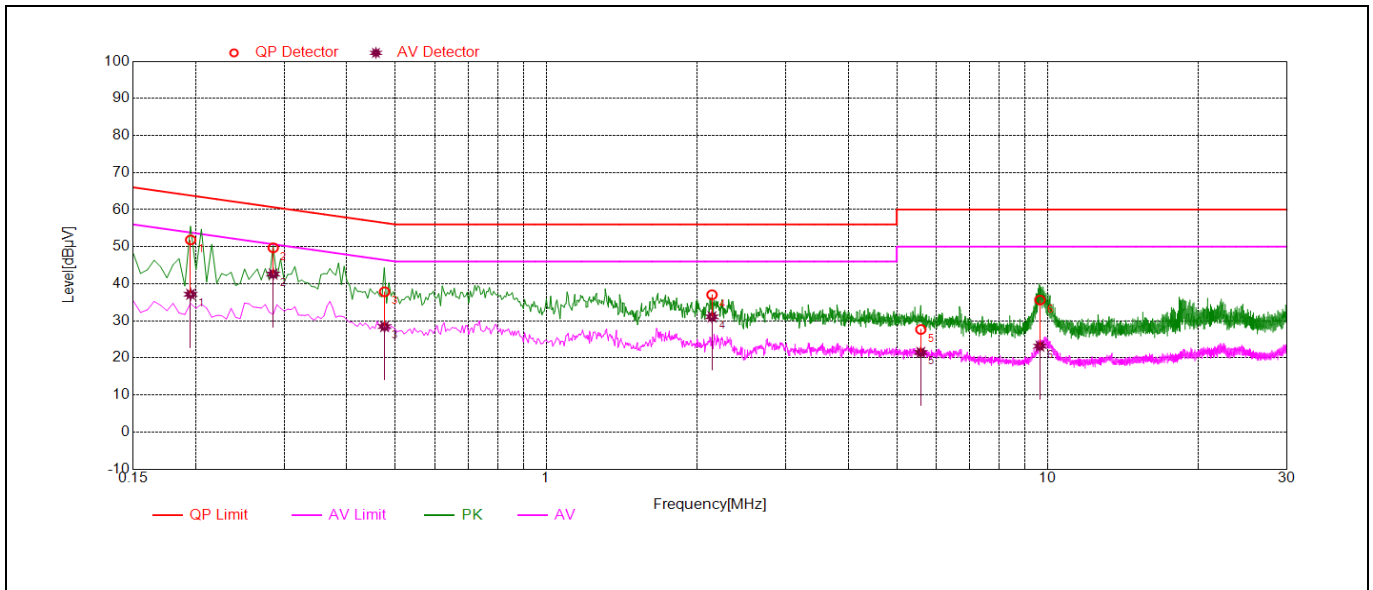
The EUT configuration of the emission tests is EUT + Link. The test voltage is AC 120V/60Hz.

B. Test Plots:



(Plot A: L Phase)

NO.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.19	58.65	39.33	64.04	54.04	Line	PASS
2	0.28	45.45	36.88	60.82	50.82		PASS
3	0.78	35.13	28.89	56.00	46.00		PASS
4	2.77	36.01	30.06	56.00	46.00		PASS
5	5.56	27.21	21.13	60.00	50.00		PASS
6	9.78	35.65	25.79	60.00	50.00		PASS



(Plot B: N Phase)

NO.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.20	51.83	37.16	63.82	53.82	Neutral	PASS
2	0.29	49.71	42.62	60.66	50.66		PASS
3	0.48	37.84	28.46	56.42	46.42		PASS
4	2.14	37.04	31.08	56.00	46.00		PASS
5	5.59	27.67	21.48	60.00	50.00		PASS
6	9.66	35.61	23.17	60.00	50.00		PASS

2.8. Radiated Emission

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: 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(eirp) 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 (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

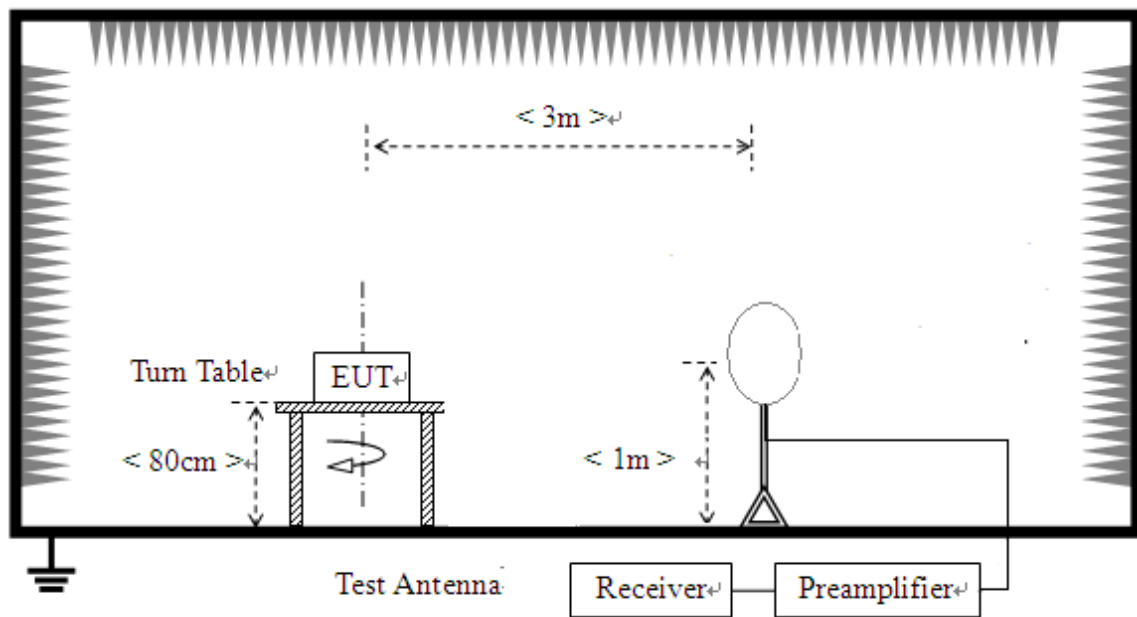
For Above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.

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)

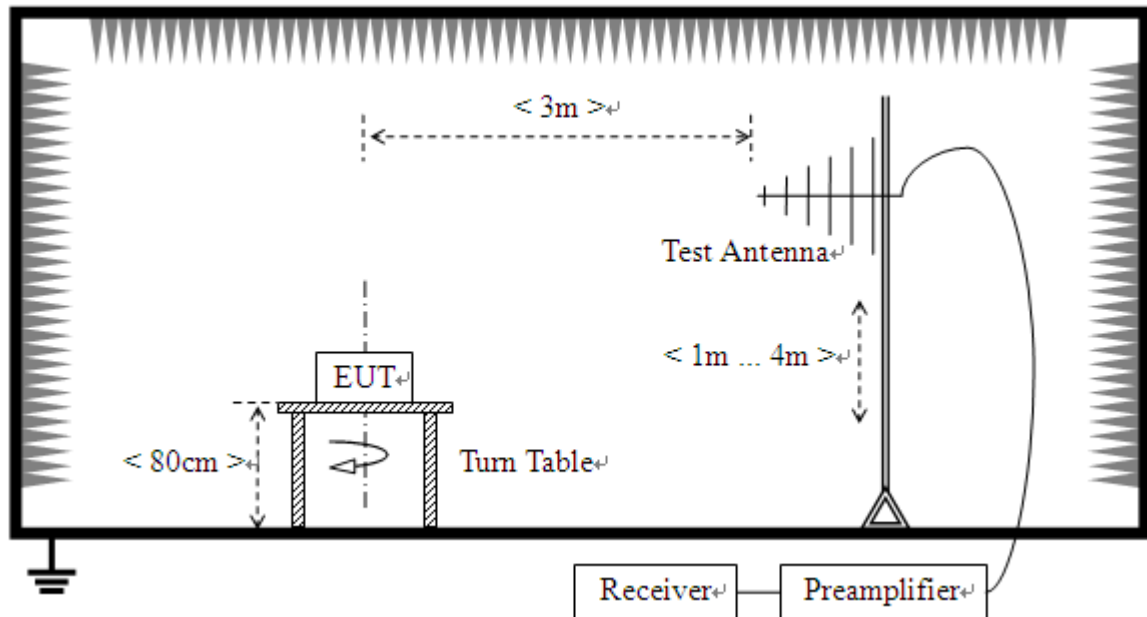
2.8.2. Test Description

A. Test Setup:

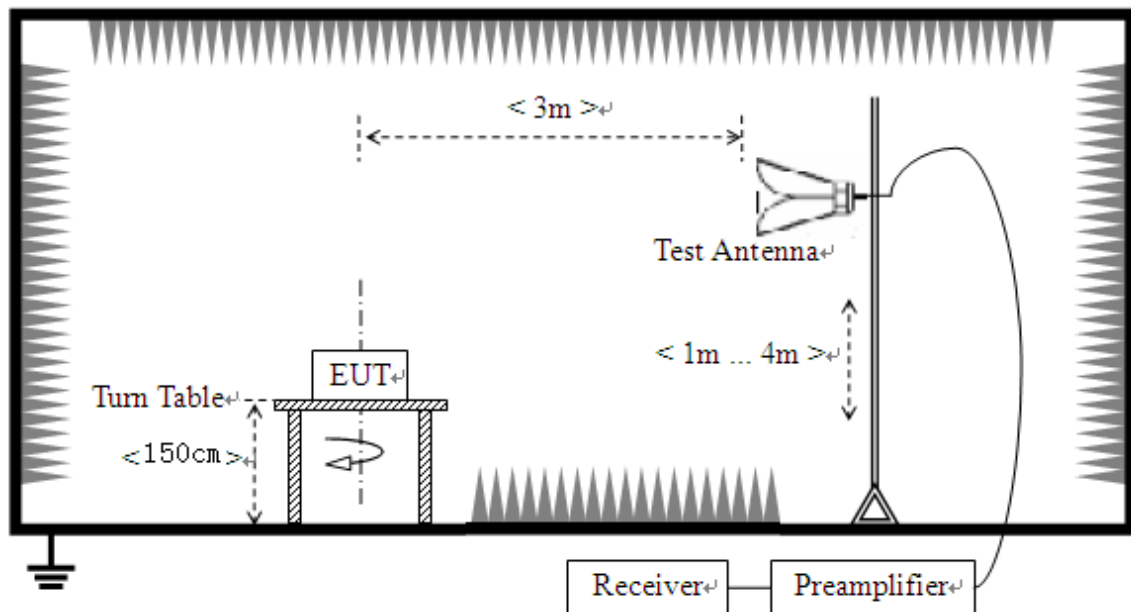
- 1) For radiated emissions from 9kHz to 30MHz



2) For radiated emissions from 30MHz to 1GHz



3) For radiated emissions above 1GHz



The RF absorbing material used on the reference ground plane and on the turntable have a maximum height (thickness) of 30 cm (12 in) and have a minimum-rated attenuation of 20 dB at all frequencies from 1 GHz to 18 GHz.

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4dB according to the standards: ANSI C63.10 (2013). For radiated emissions below or equal to 1GHz, The EUT was set-up on insulator 80cm above the Ground Plane, For radiated emissions above 1GHz, The EUT



was set-up on insulator 150cm above the Ground Plane. The set-up and test methods were according to ANSI C63.10

For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

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

For the Test Antenna:

(a) In the frequency range of 9kHz to 30MHz, magnetic field is measured with Loop Test Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.

(b) In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Place the test antenna at 3m away from area of the EUT, while keeping the test antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The test antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final test antenna elevation shall be that which maximizes the emissions. The test antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. The emission levels at both horizontal and vertical polarizations should be tested.



2.8.3. Test Result

According to ANSI C63.4 selection 4.2.2, 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 limit, it is unnecessary to perform an quasi-peak measurement.

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.

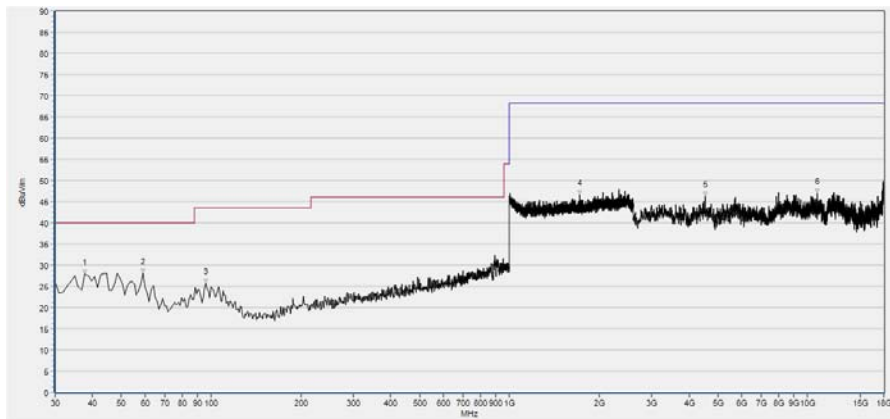
Note1: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Note2: For the frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not recorded.

Note3: For the frequency, which started from 18GHz to 40GHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

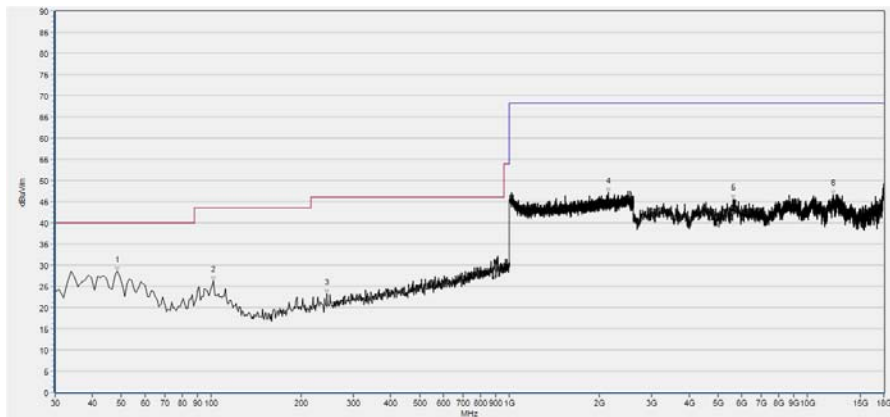
**802.11a Test mode**

Plots 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
37.768	27.94	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
59.129	27.96	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
96.026	25.67	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1723.441	46.67	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4531.266	46.28	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
10795.559	46.99	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

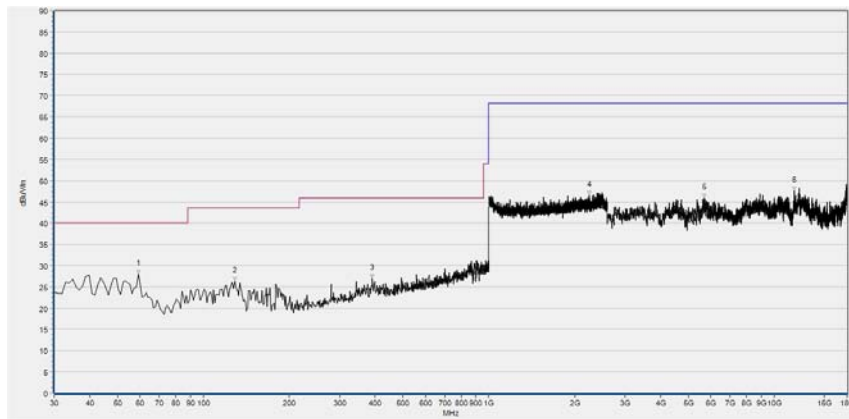
(Antenna Horizontal, 30MHz to 18GHz)



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
48.448	28.51	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
101.852	26.25	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
244.585	23.19	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2142.247	47.08	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5624.605	45.52	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12153.271	46.63	N/A	N/A	74.00	N/A	N/A	Vertical	PASS

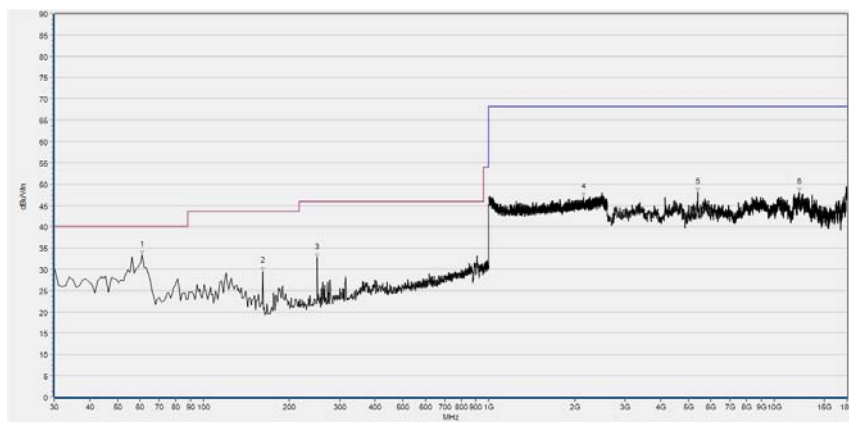
(Antenna Vertical, 30MHz to 18GHz)

Plots 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
59.129	27.95	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
129.039	26.32	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
390.230	27.04	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2242.014	46.55	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
5682.857	45.91	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11776.875	47.58	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

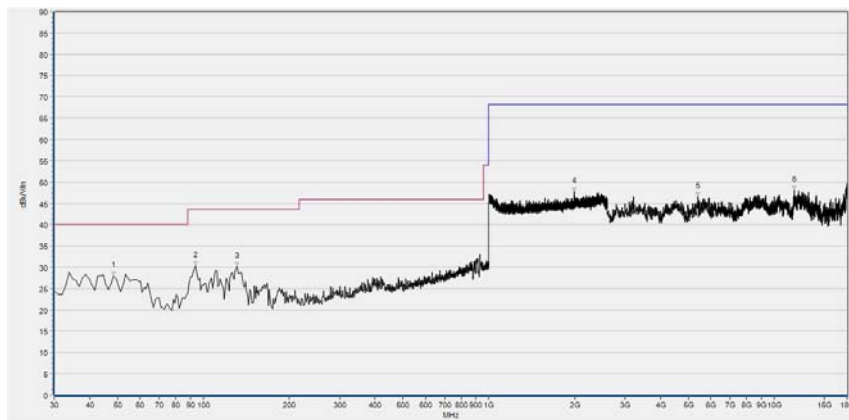


Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
61.071	33.42	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
161.081	29.45	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
250.410	32.73	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2140.647	47.00	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5387.117	48.12	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
12265.293	48.14	N/A	N/A	74.00	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

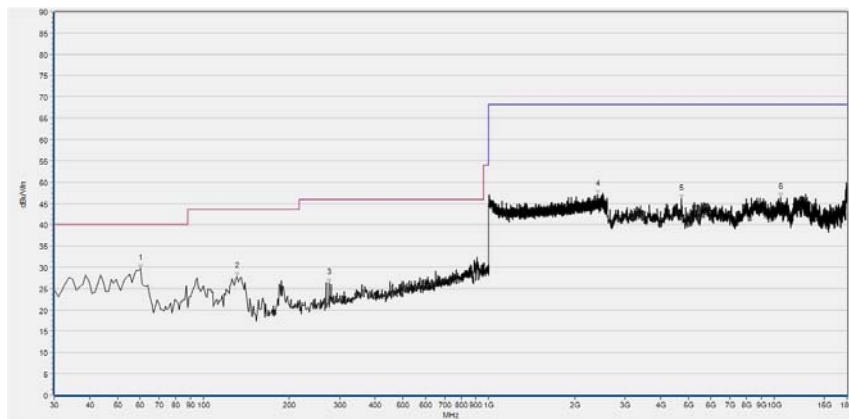


Plot for Channel = 48



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
48.448	27.98	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
94.084	30.35	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
130.981	30.25	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1997.132	47.75	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5387.117	46.64	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
11767.914	48.02	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

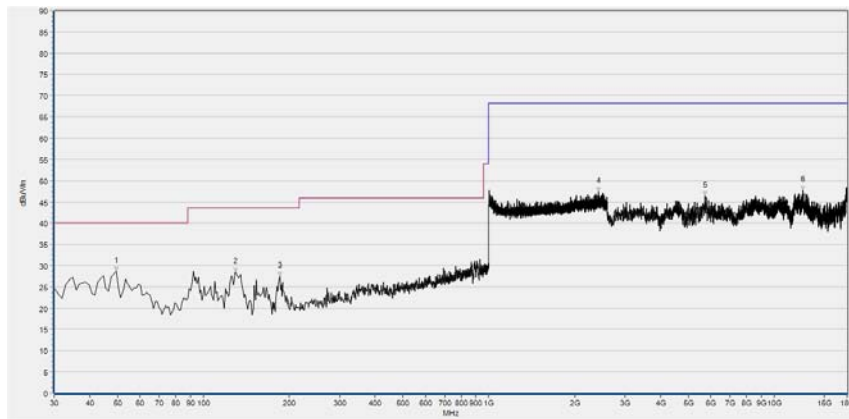


Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
60.100	29.71	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
130.981	27.88	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
275.656	26.36	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2406.869	47.04	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4719.464	46.10	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
10504.301	46.35	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

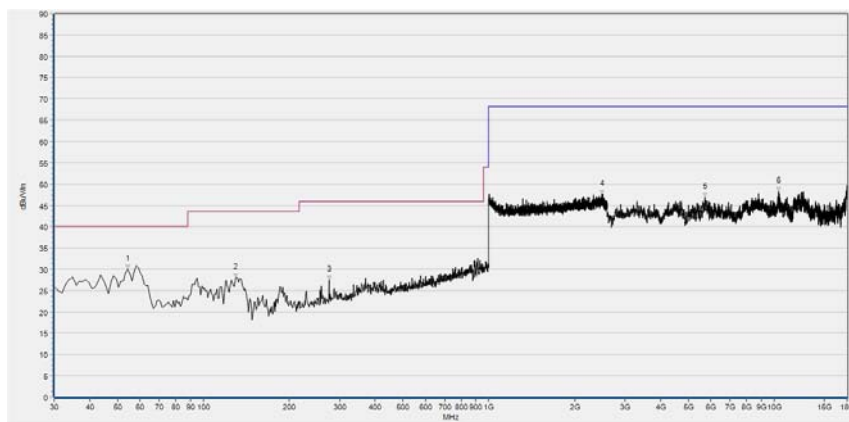


Plots for Channel = 52



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
49.419	28.59	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
130.010	28.54	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
185.355	27.44	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2426.609	47.45	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5718.704	46.44	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12623.765	47.70	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

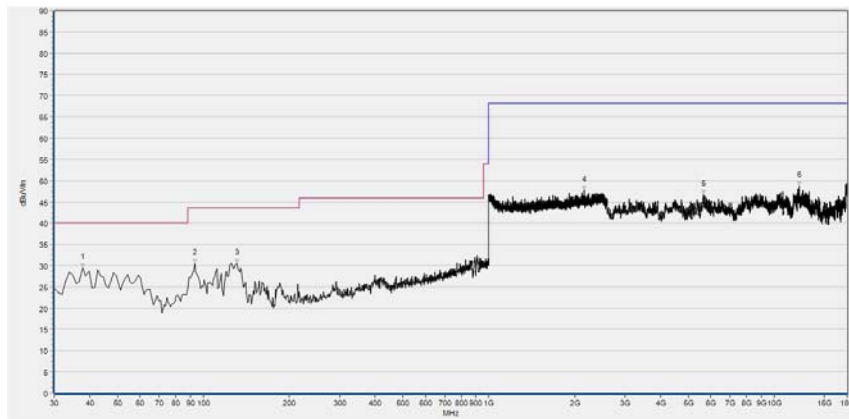


Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
54.274	29.94	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
130.010	28.00	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
275.656	27.54	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2491.164	47.67	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
5705.261	46.86	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
10342.989	48.21	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

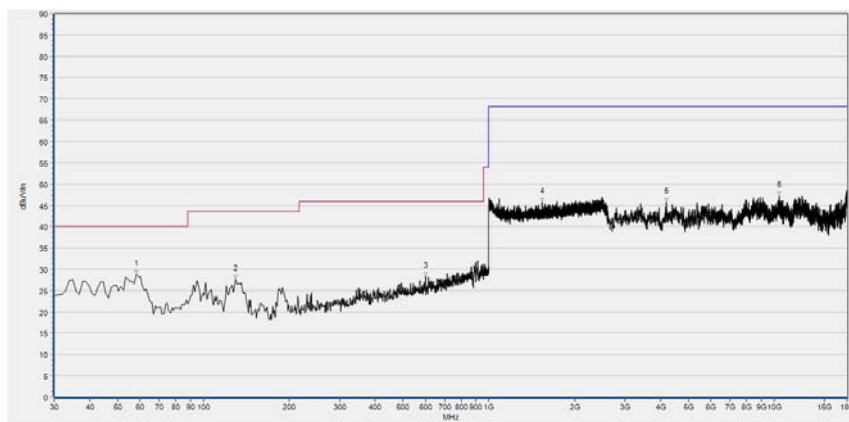


Plots for Channel = 60



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
37.768	29.44	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
93.113	30.47	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
130.981	30.52	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2163.054	47.76	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5638.048	46.76	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12260.812	48.79	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

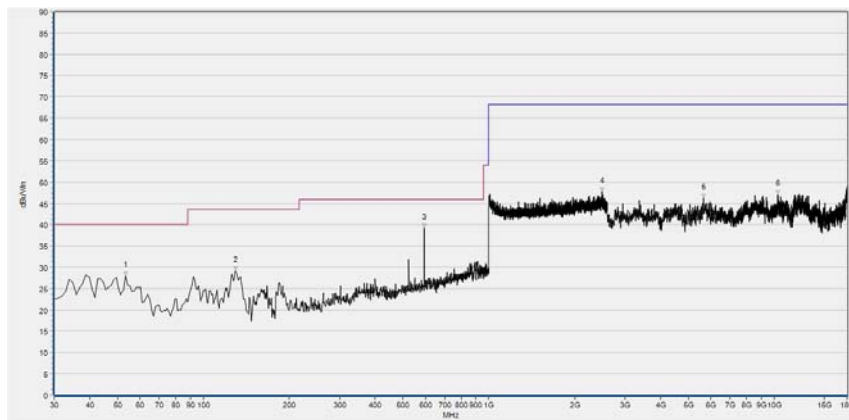


Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
58.158	28.80	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
130.010	27.68	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
600.931	28.36	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1533.511	45.72	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
4181.756	45.77	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
10419.164	47.28	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

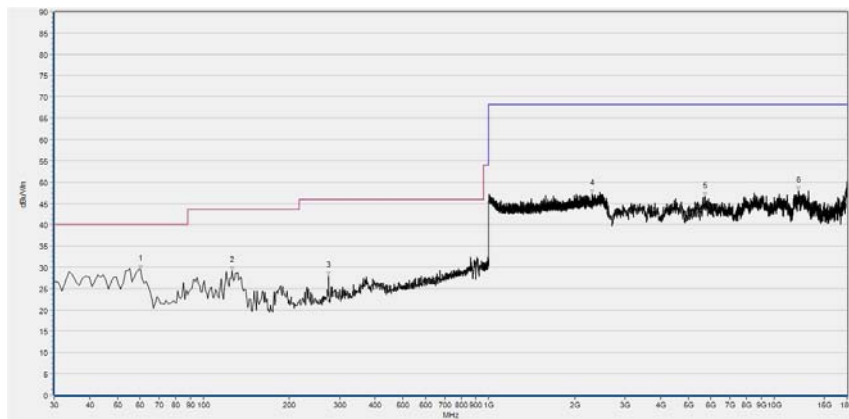


Plot for Channel = 64



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
53.303	27.97	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
130.010	29.08	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
593.163	39.27	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2495.432	47.81	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5651.490	46.21	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10289.218	47.05	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

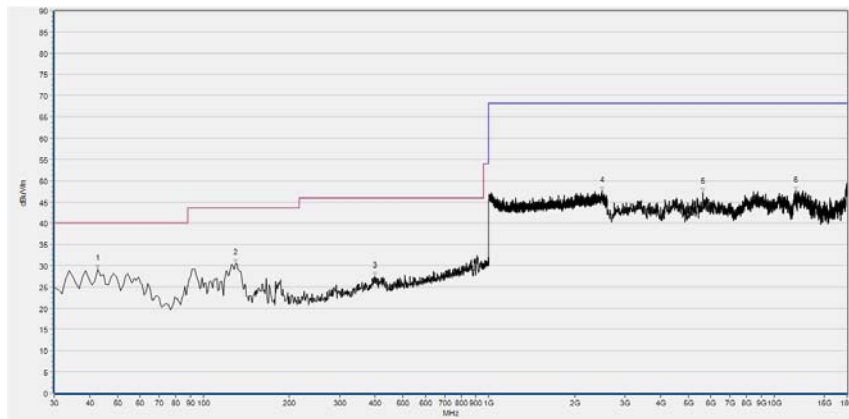


Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
60.100	29.57	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
126.126	29.17	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
274.685	27.92	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2294.832	47.21	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
5709.742	46.52	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12166.713	47.97	N/A	N/A	74.00	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

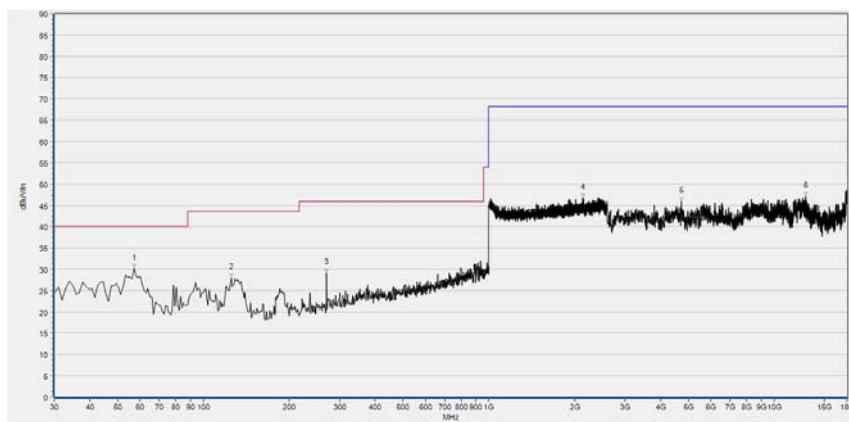


Plots for Channel = 100



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
42.623	29.13	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
130.010	30.47	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
397.998	27.50	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2495.432	47.58	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
5629.086	47.23	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11875.455	47.59	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

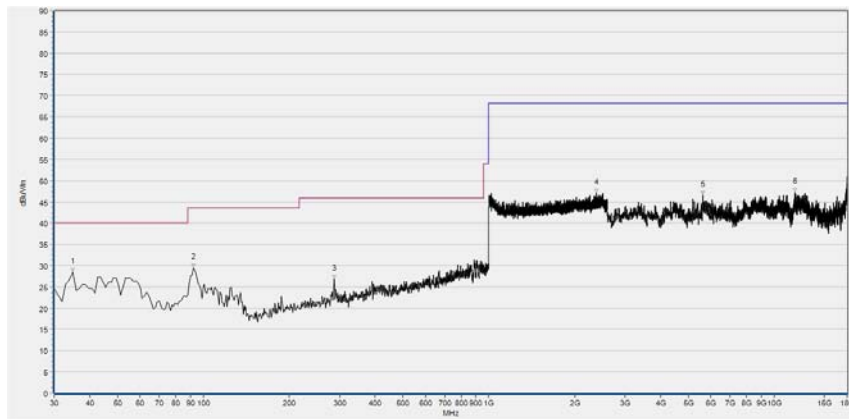
(Antenna Horizontal, 30MHz to 18GHz)



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
57.187	30.21	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
125.155	27.98	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
269.830	29.15	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2139.580	46.79	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4723.945	45.88	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
12888.138	47.18	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

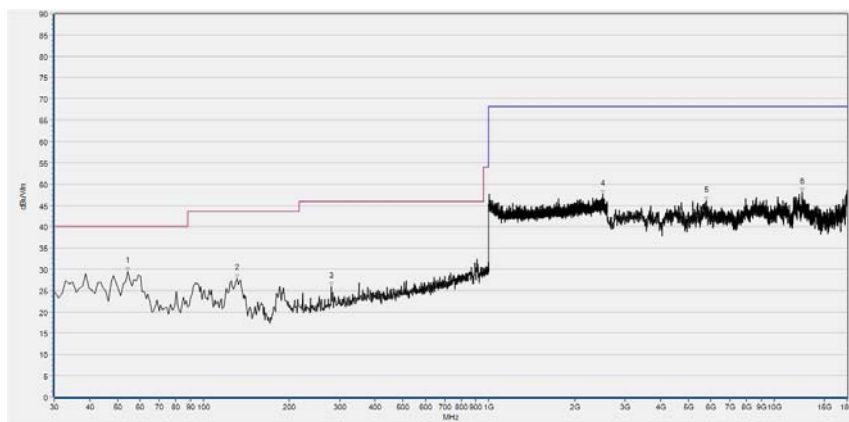
(Antenna Vertical, 30MHz to 18GHz)

Plots 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
34.855	28.47	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
92.142	29.47	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
287.307	26.78	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2379.660	47.03	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
5620.124	46.55	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11844.089	47.34	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

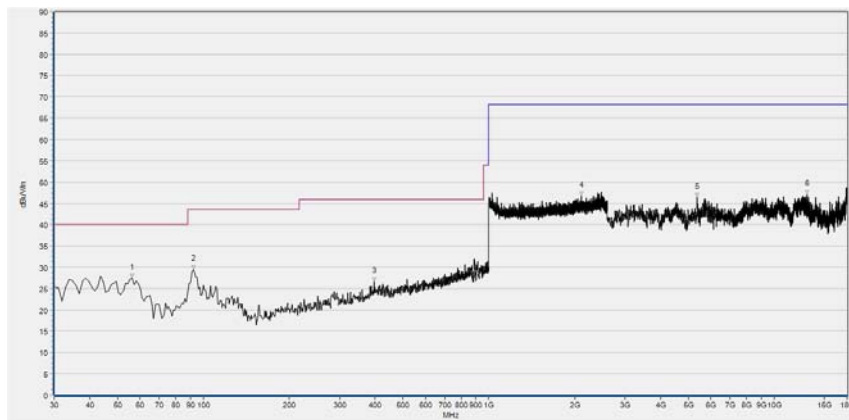


Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
54.274	29.56	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
130.981	27.83	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
280.511	25.94	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2502.367	47.56	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5790.398	46.03	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12552.070	48.16	N/A	N/A	74.00	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

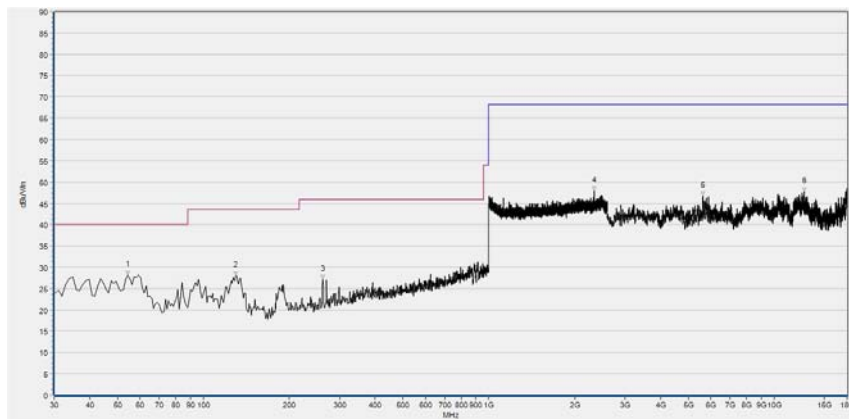


Plot for Channel = 142



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
56.216	27.47	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
92.142	29.47	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
396.056	26.62	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2111.304	46.78	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5373.675	46.46	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
13049.450	47.04	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

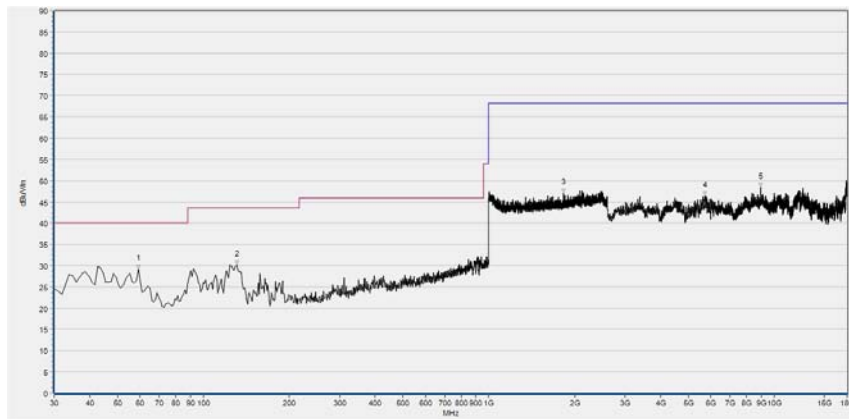
(Antenna Horizontal, 30MHz to 18GHz)



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
54.274	28.12	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
130.010	27.99	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
262.062	27.12	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2337.513	47.90	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
5620.124	46.74	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12704.421	47.76	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

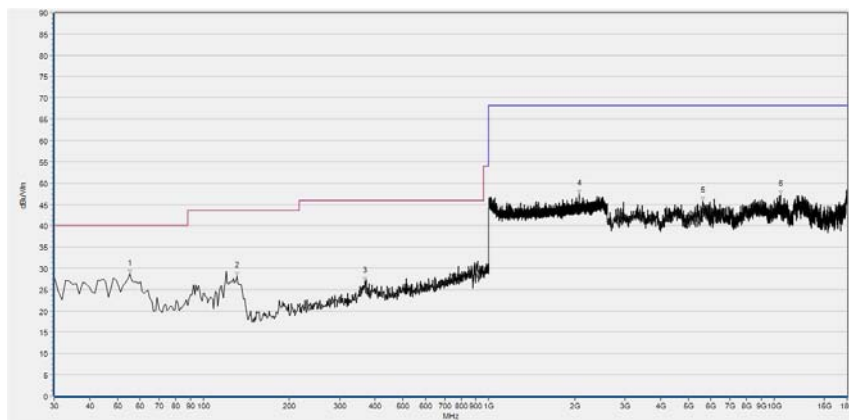
(Antenna Vertical, 30MHz to 18GHz)

Plots 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
59.129	29.12	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
130.981	30.22	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1823.741	47.05	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5718.704	46.40	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8944.949	48.45	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

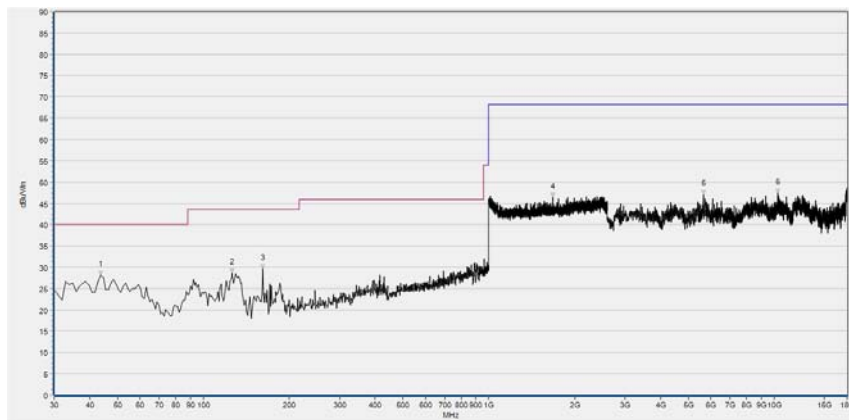


Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
55.245	28.74	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
130.981	28.09	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
368.869	27.01	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2078.760	47.41	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5624.605	45.81	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
10504.301	47.19	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

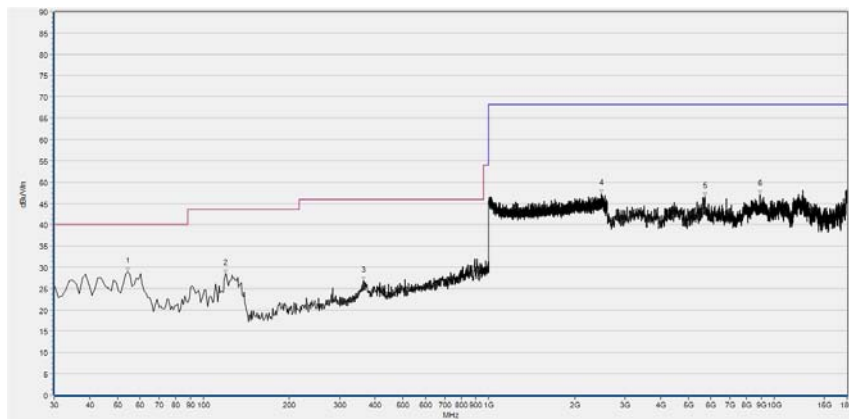


Plot for Channel = 157



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
43.594	28.08	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
126.126	28.70	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
161.081	29.63	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1678.093	46.37	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
5638.048	47.15	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10284.737	47.50	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

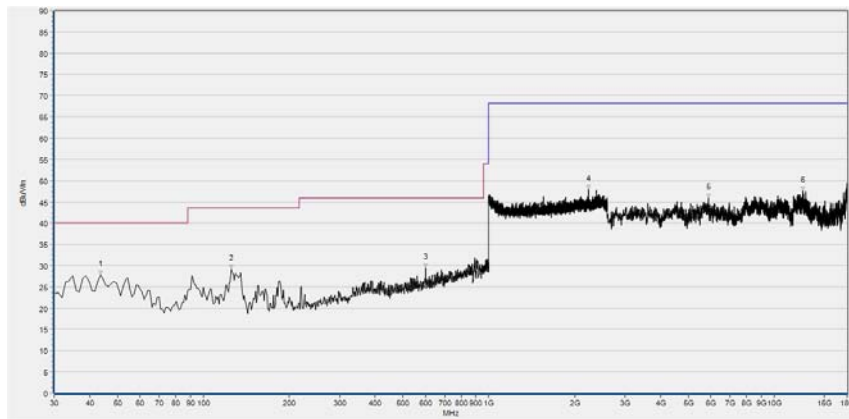
(Antenna Horizontal, 30MHz to 18GHz)



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
54.274	29.01	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
119.329	28.54	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
363.043	26.80	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2479.960	47.30	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5714.223	46.53	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8891.178	47.04	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

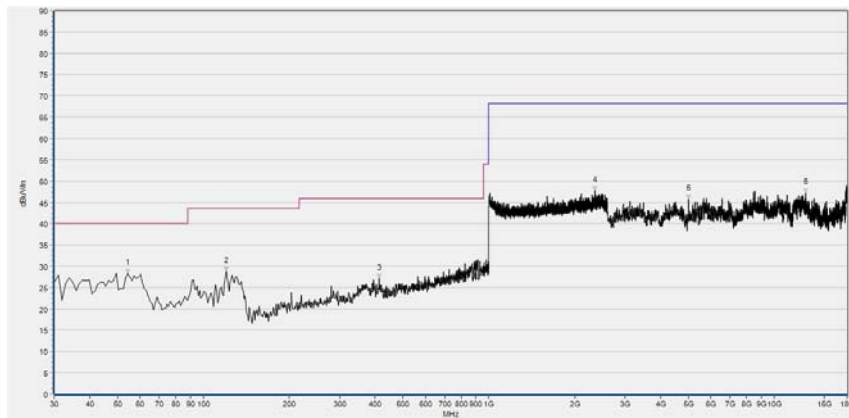
(Antenna Vertical, 30MHz to 18GHz)

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
43.594	27.82	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
125.155	29.23	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
599.960	29.57	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2237.212	47.85	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
5871.054	45.91	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12619.284	47.53	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

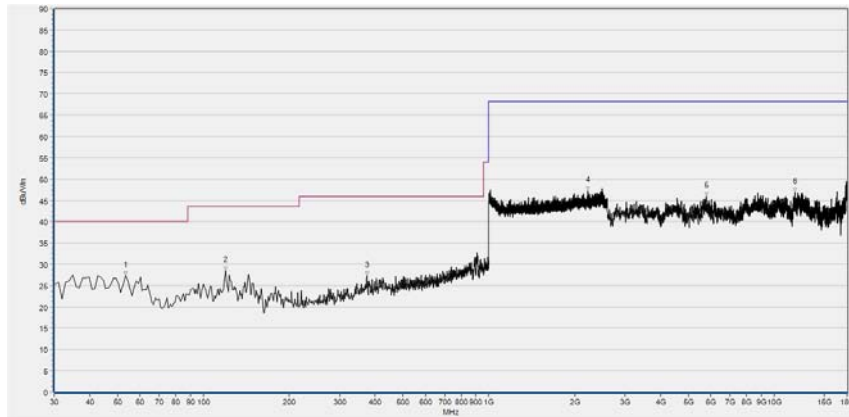


Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
54.274	28.32	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
120.300	28.80	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
412.563	27.12	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2354.051	47.71	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
5010.722	45.80	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
12883.657	47.25	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

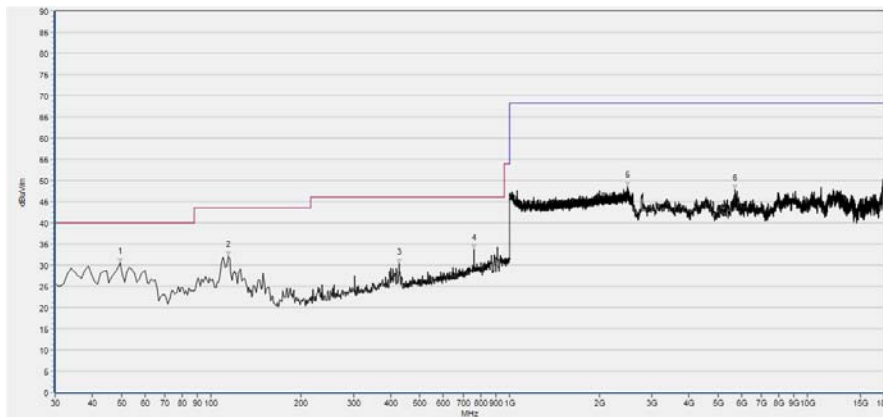
**802.11n (HT20) Test mode**

Plots 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
53.303	27.27	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
119.329	28.53	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
373.724	27.31	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2224.942	47.24	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
5781.436	45.87	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11848.570	46.88	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

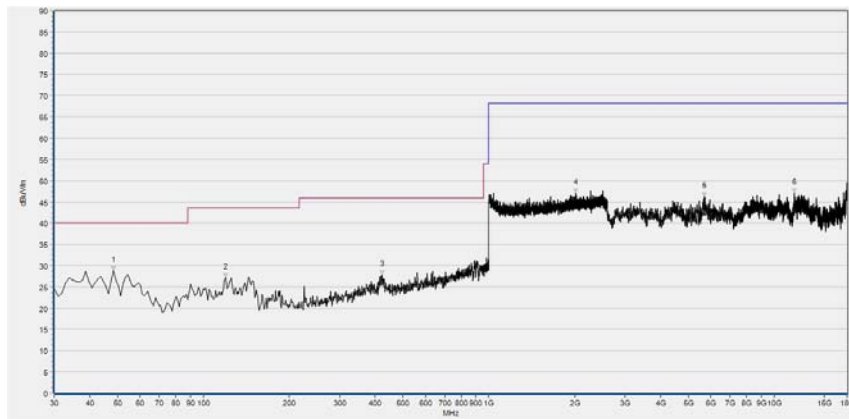


Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
49.419	30.49	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
114.474	32.16	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
427.127	30.43	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
762.112	33.75	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2484.228	48.50	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
5714.223	47.86	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

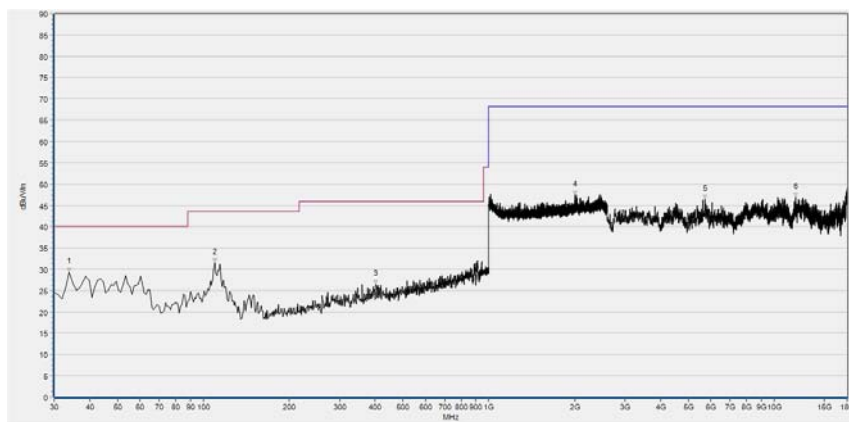


Plots for Channel = 44



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
48.448	28.91	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
119.329	27.18	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
423.243	27.78	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2019.540	47.06	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5700.780	46.31	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11776.875	47.12	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

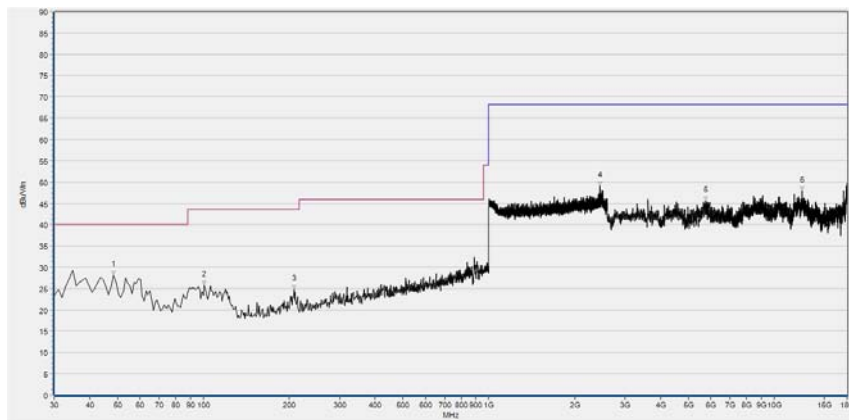


Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
33.884	29.31	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
109.620	31.55	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
401.882	26.41	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2001.400	47.39	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5714.223	46.45	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
11853.051	46.86	N/A	N/A	74.00	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

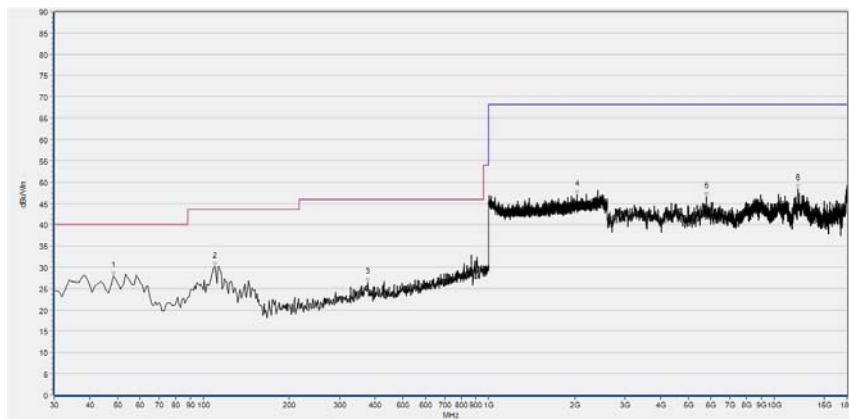


Plot for Channel = 48



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
48.448	28.23	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
100.881	25.84	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
207.688	24.74	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2446.882	49.07	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
5736.627	45.61	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12525.185	47.93	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

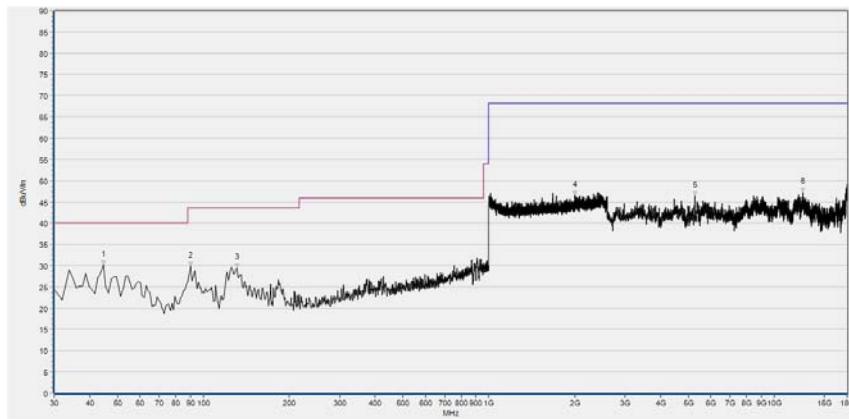


Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
48.448	27.94	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
109.620	30.12	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
376.637	26.52	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2037.146	47.15	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5776.955	46.55	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12126.385	48.43	N/A	N/A	74.00	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

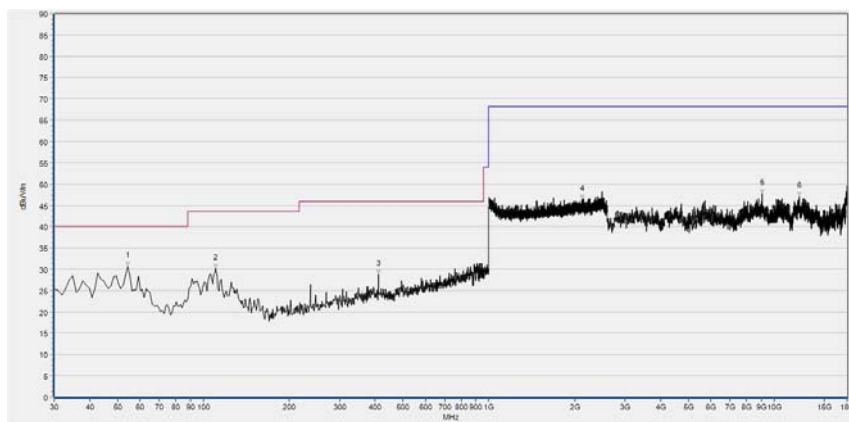


Plots for Channel = 52



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
44.565	30.19	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
90.200	29.90	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
130.981	29.57	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1998.199	46.58	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5261.652	46.45	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12614.803	47.21	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

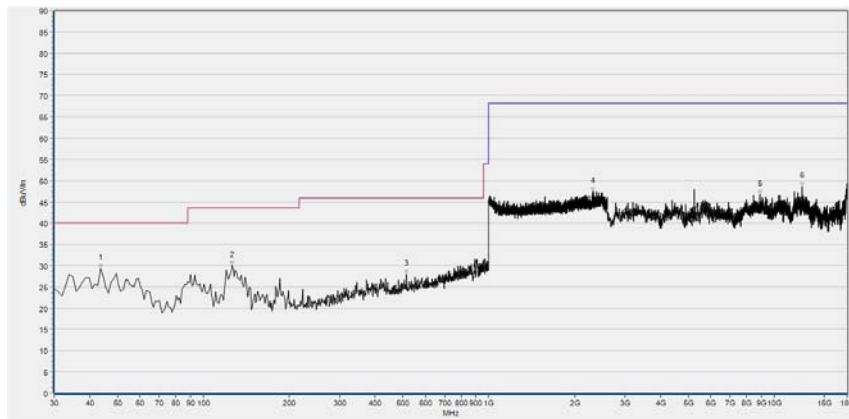
(Antenna Horizontal, 30MHz to 18GHz)



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
54.274	30.61	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
110.591	30.20	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
410.621	28.78	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2123.575	46.37	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
9061.452	47.83	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
12247.369	47.11	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

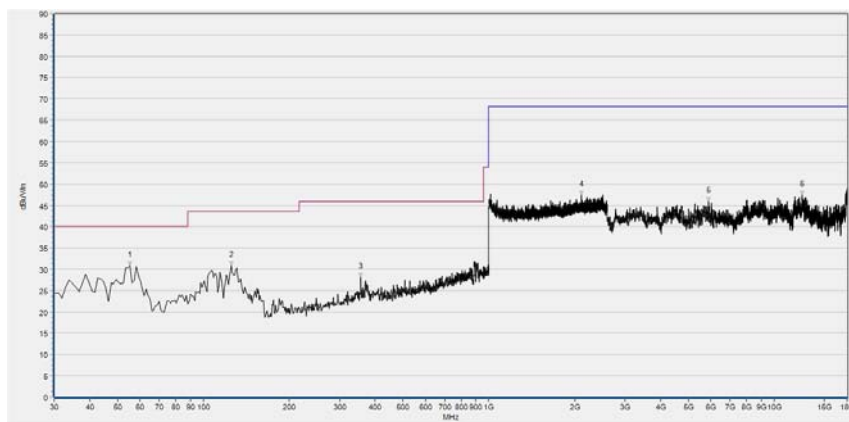
(Antenna Vertical, 30MHz to 18GHz)

Plots for Channel = 60



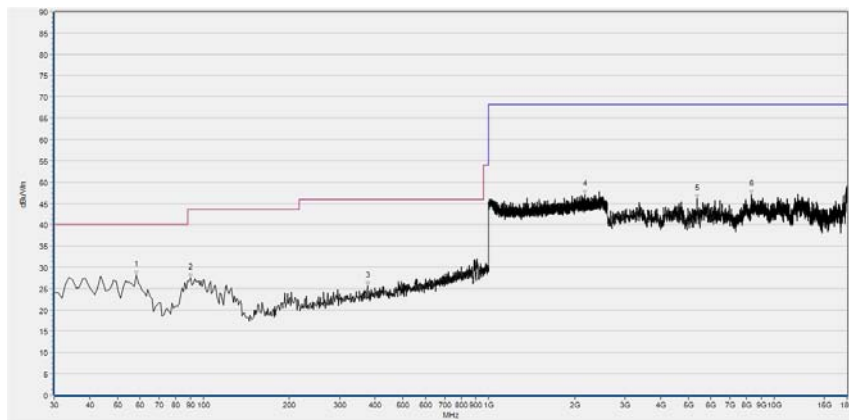
Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
43.594	29.35	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
126.126	30.01	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
515.485	27.92	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2312.437	47.38	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
8886.697	46.74	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12534.147	48.59	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



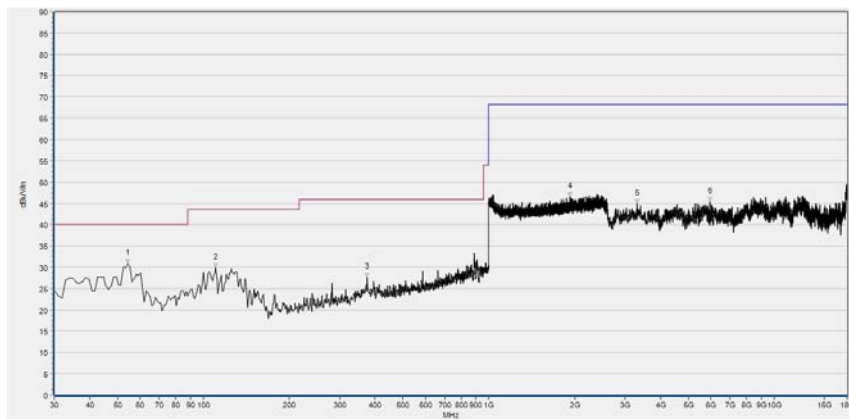
Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
55.245	30.85	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
125.155	30.80	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
356.246	28.12	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2108.103	47.39	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5880.016	45.89	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12484.857	47.39	N/A	N/A	74.00	N/A	N/A	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
58.158	28.23	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
90.200	27.41	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
375.666	25.71	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2173.191	47.01	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5364.713	46.01	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
8304.181	47.08	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

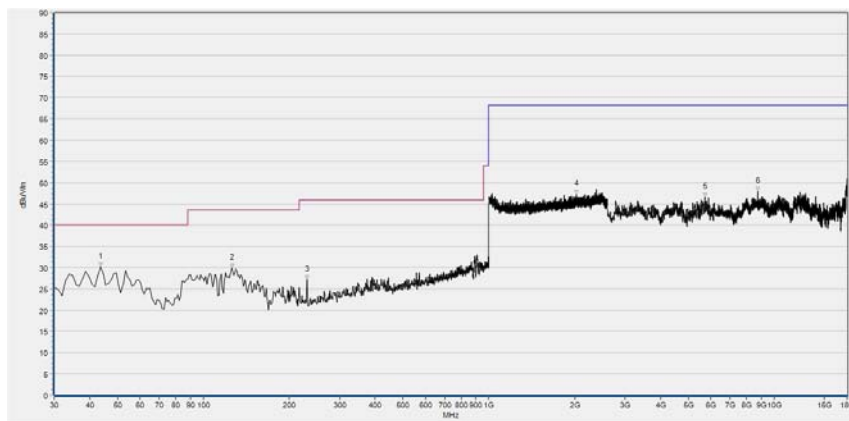


Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
54.274	30.87	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
110.591	29.82	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
374.695	27.63	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1929.376	46.56	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
3307.982	44.84	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
5938.268	45.44	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

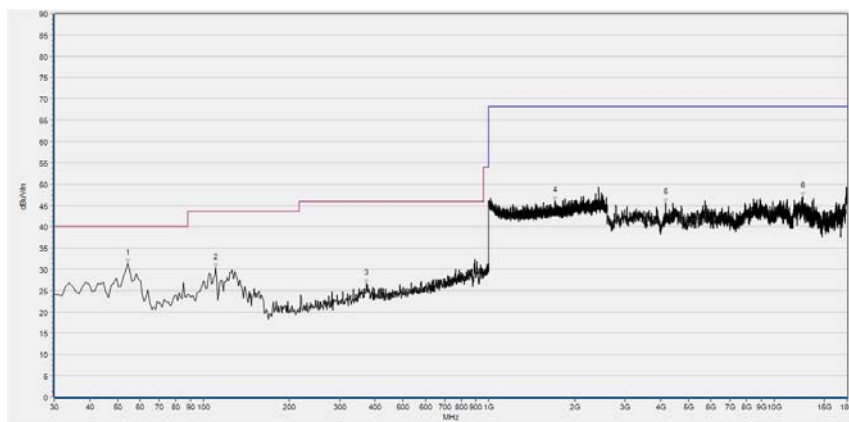


Plots for Channel = 100



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
43.594	30.19	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
126.126	29.75	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
230.991	27.09	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2028.076	47.24	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5705.261	46.65	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8734.347	47.99	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

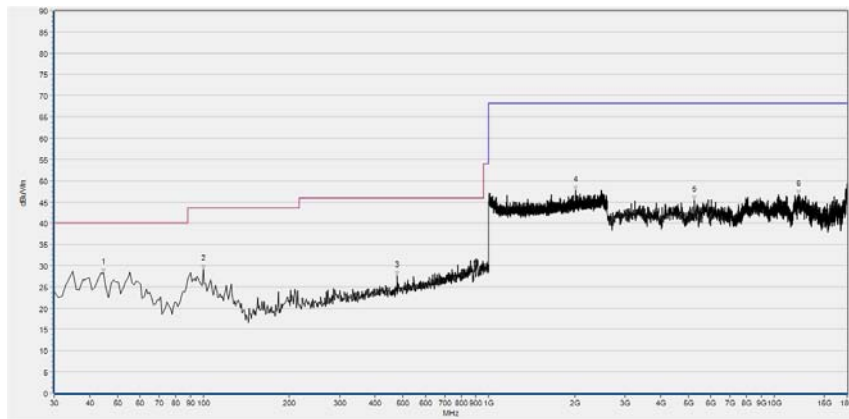
(Antenna Horizontal, 30MHz to 18GHz)



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
54.274	31.28	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
110.591	30.31	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
372.753	26.64	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1707.436	46.01	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4159.352	45.66	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
12619.284	47.02	N/A	N/A	74.00	N/A	N/A	Vertical	PASS

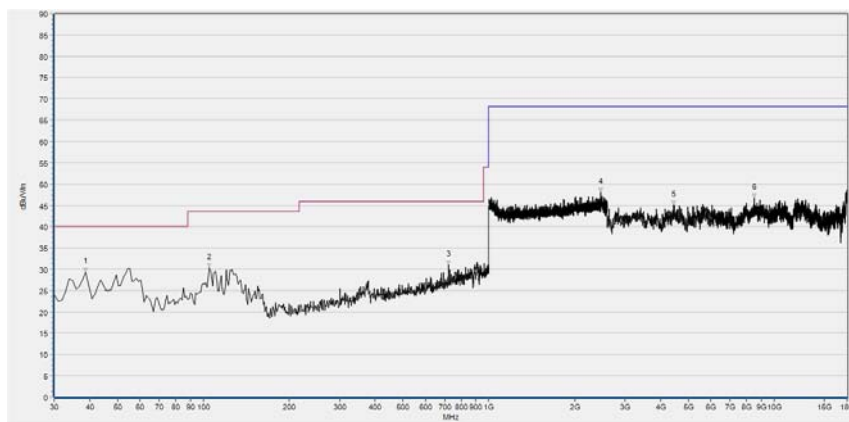
(Antenna Vertical, 30MHz to 18GHz)

Plots for Channel = 120



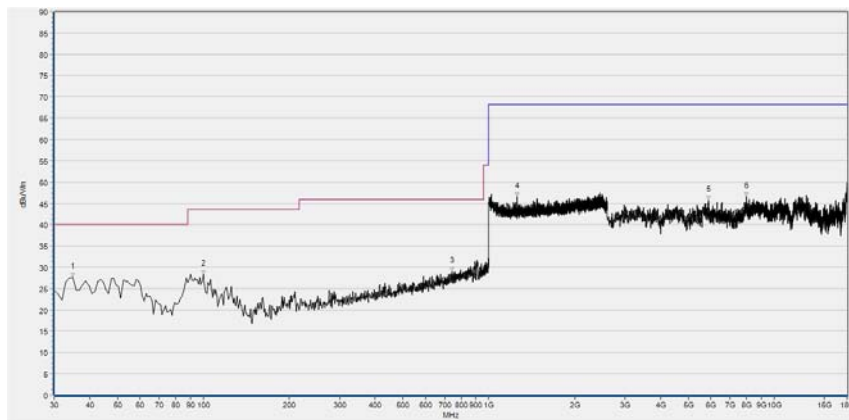
Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
44.565	28.31	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
99.910	29.14	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
477.618	27.57	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2015.272	47.68	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5257.171	45.40	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12162.232	46.83	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



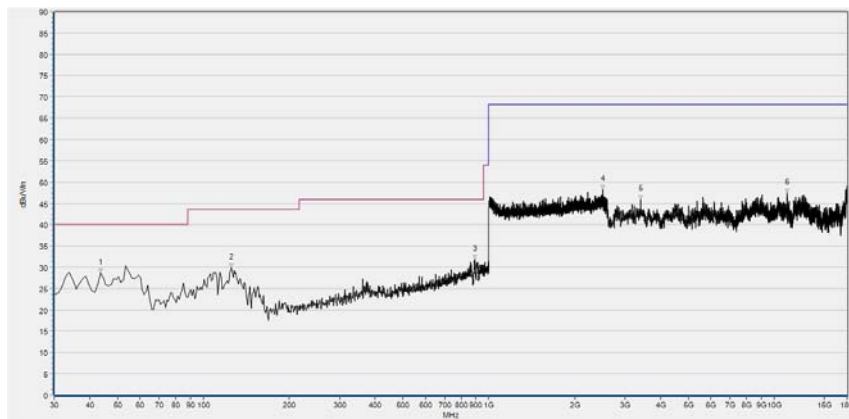
Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
38.739	29.26	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
104.765	30.26	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
724.244	30.95	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2469.823	48.02	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4432.687	45.05	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8514.783	46.70	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel = 142

Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
34.855	27.70	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
99.910	28.25	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
744.635	28.95	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1255.552	46.66	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5884.497	45.84	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8008.442	46.67	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

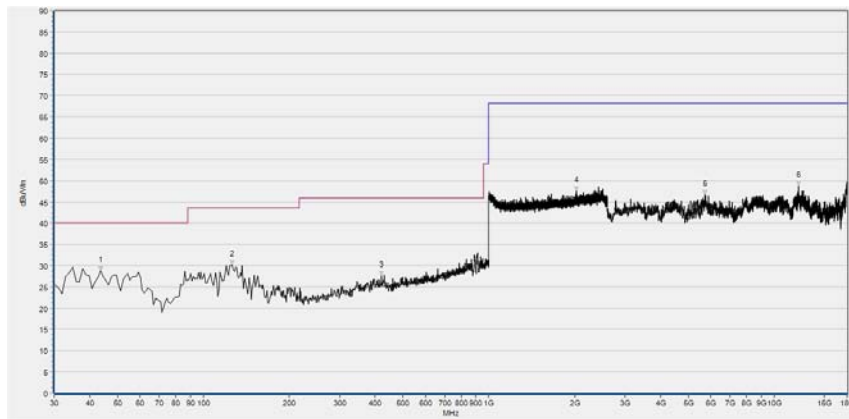
(Antenna Horizontal, 30MHz to 18GHz)



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
43.594	28.63	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
125.155	29.88	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
893.193	31.78	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2507.703	48.20	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
3402.080	45.94	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
11082.336	47.43	N/A	N/A	74.00	N/A	N/A	Vertical	PASS

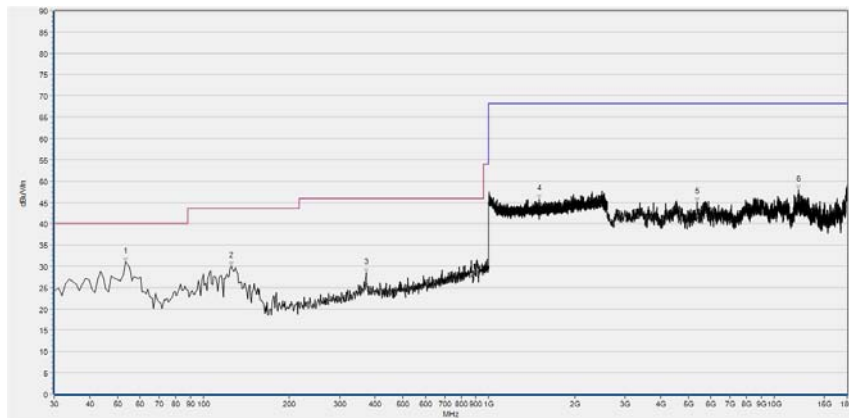
(Antenna Vertical, 30MHz to 18GHz)

Plots 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
43.594	28.85	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
126.126	30.11	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
421.301	27.69	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2023.808	47.52	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5709.742	46.69	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12162.232	48.77	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

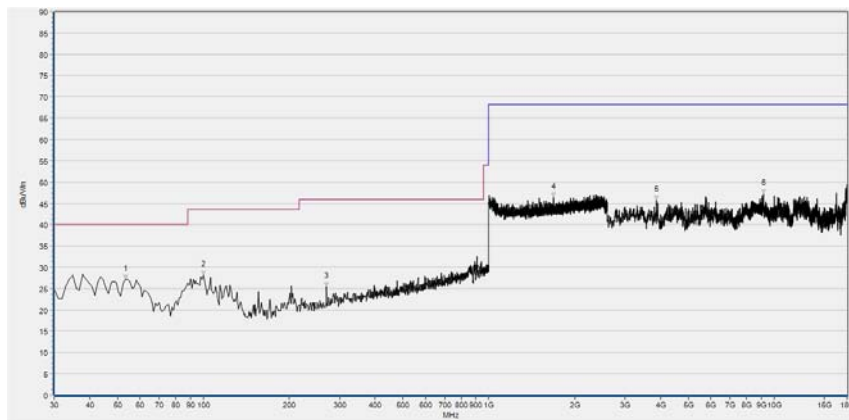
(Antenna Horizontal, 30MHz to 18GHz)



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
53.303	31.08	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
125.155	30.05	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
371.782	28.57	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1501.501	45.79	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
5373.675	45.01	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
12180.156	47.96	N/A	N/A	74.00	N/A	N/A	Vertical	PASS

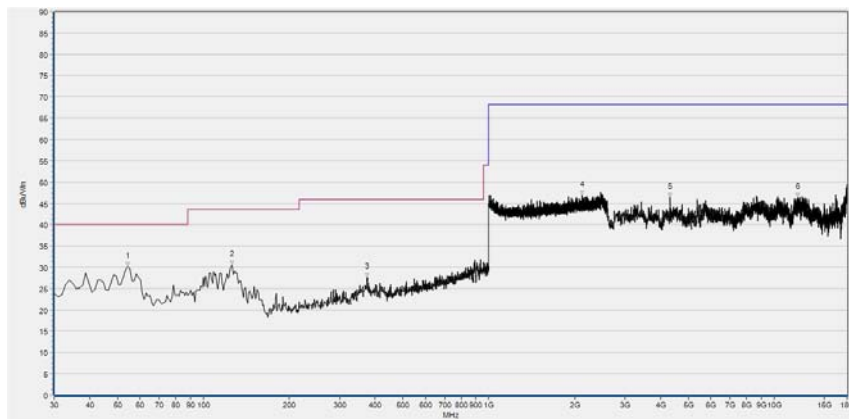
(Antenna Vertical, 30MHz to 18GHz)

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
53.303	27.19	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
99.910	28.18	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
269.830	25.50	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1683.428	46.39	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
3868.094	45.71	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
9151.070	47.28	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

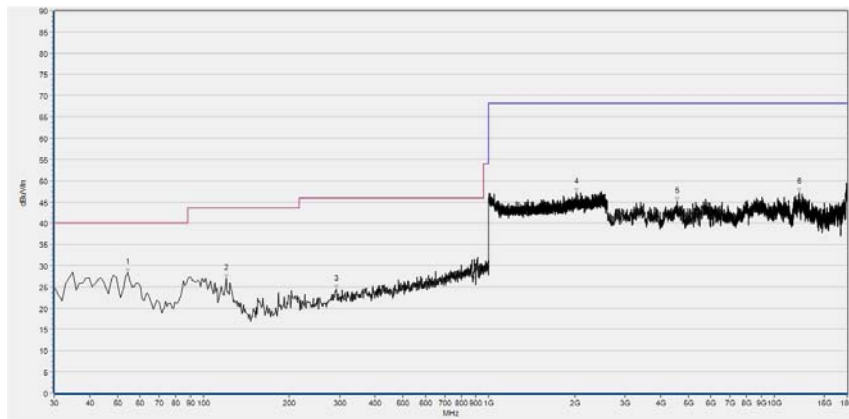
(Antenna Horizontal, 30MHz to 18GHz)



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
54.274	30.17	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
126.126	30.58	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
373.724	27.62	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2122.508	46.89	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4320.664	46.45	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
12090.538	46.50	N/A	N/A	74.00	N/A	N/A	Vertical	PASS

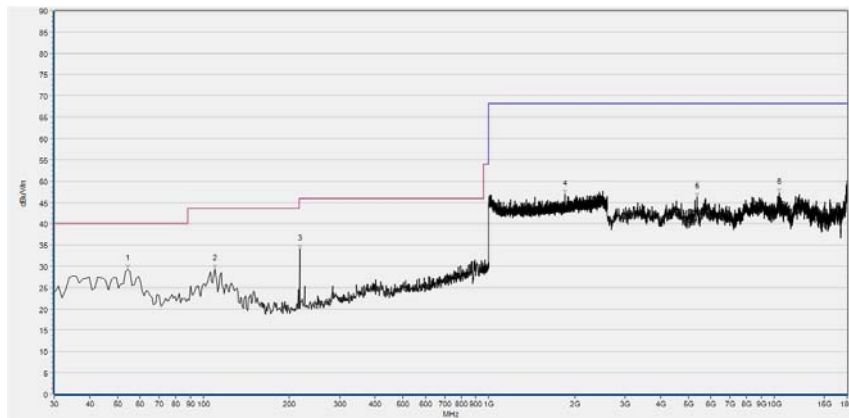
(Antenna Vertical, 30MHz to 18GHz)

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
54.274	28.29	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
120.300	27.06	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
292.162	24.40	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2029.143	47.27	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4576.075	45.08	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
12265.293	47.29	N/A	N/A	74.00	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
54.274	29.32	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
109.620	29.33	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
217.397	33.97	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1852.551	46.87	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5360.232	46.18	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
10437.087	47.30	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)