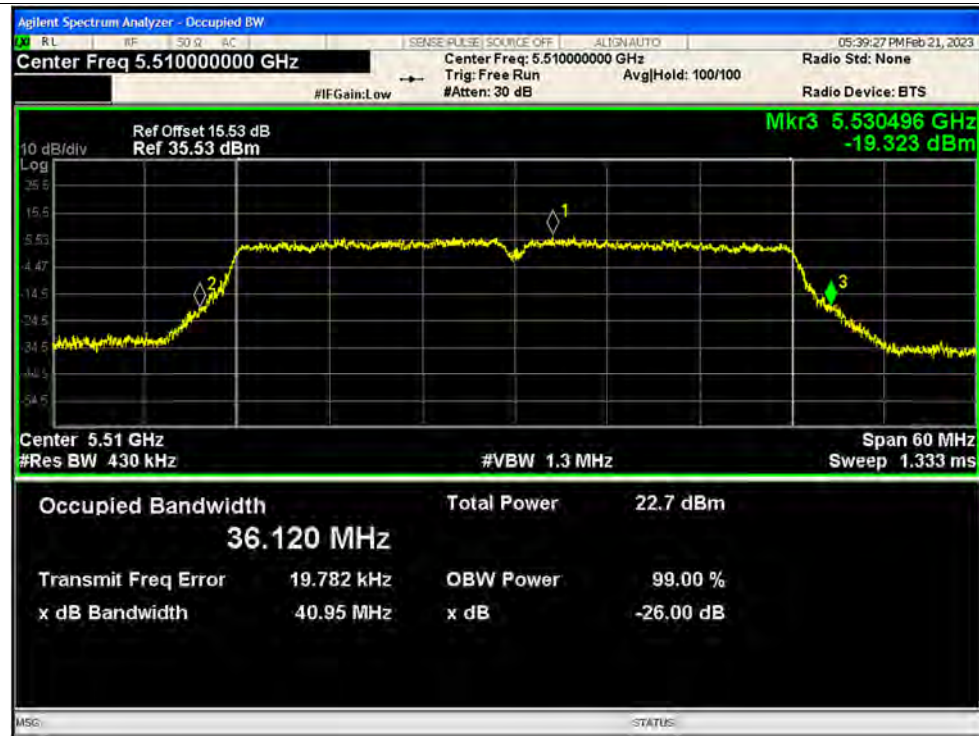
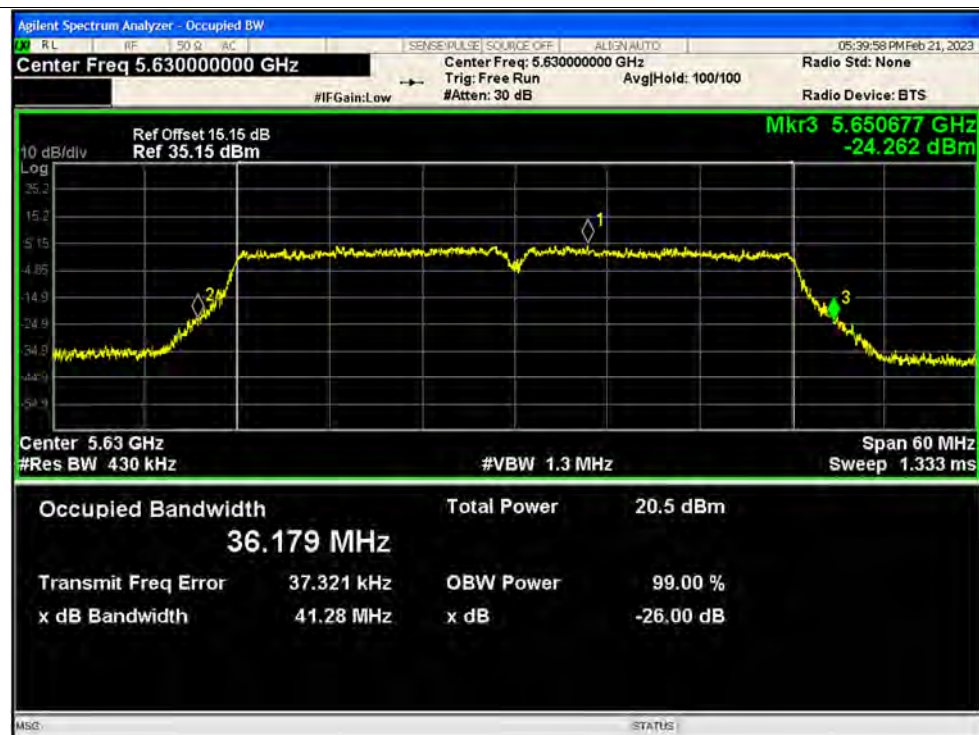




-26dB Bandwidth NVNT ac40 5510MHz Ant1

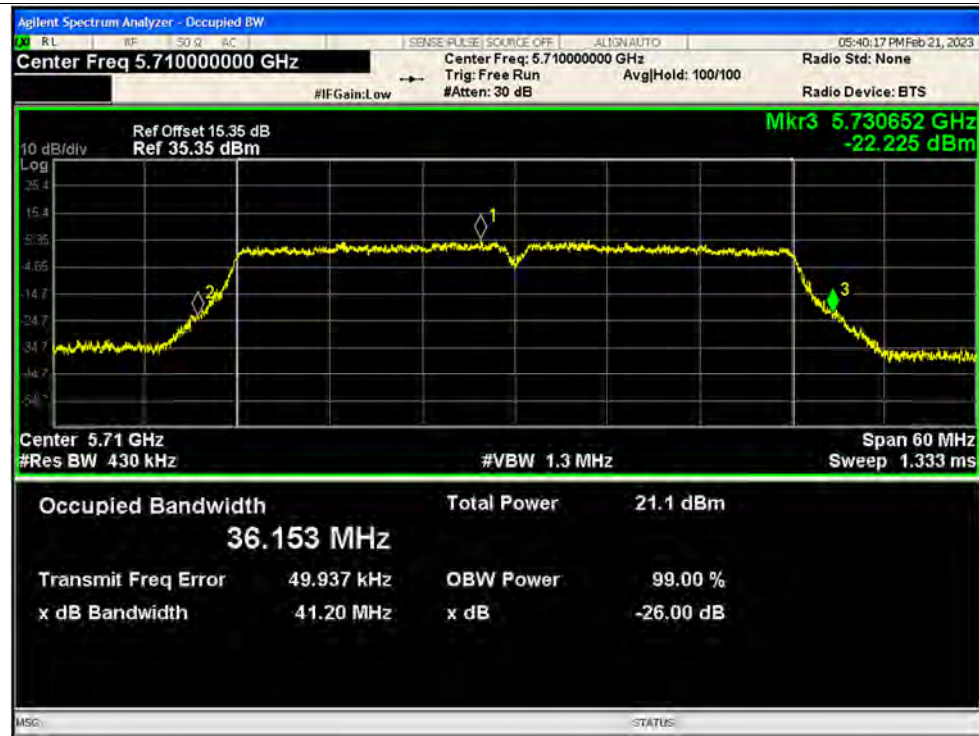


-26dB Bandwidth NVNT ac40 5630MHz Ant1

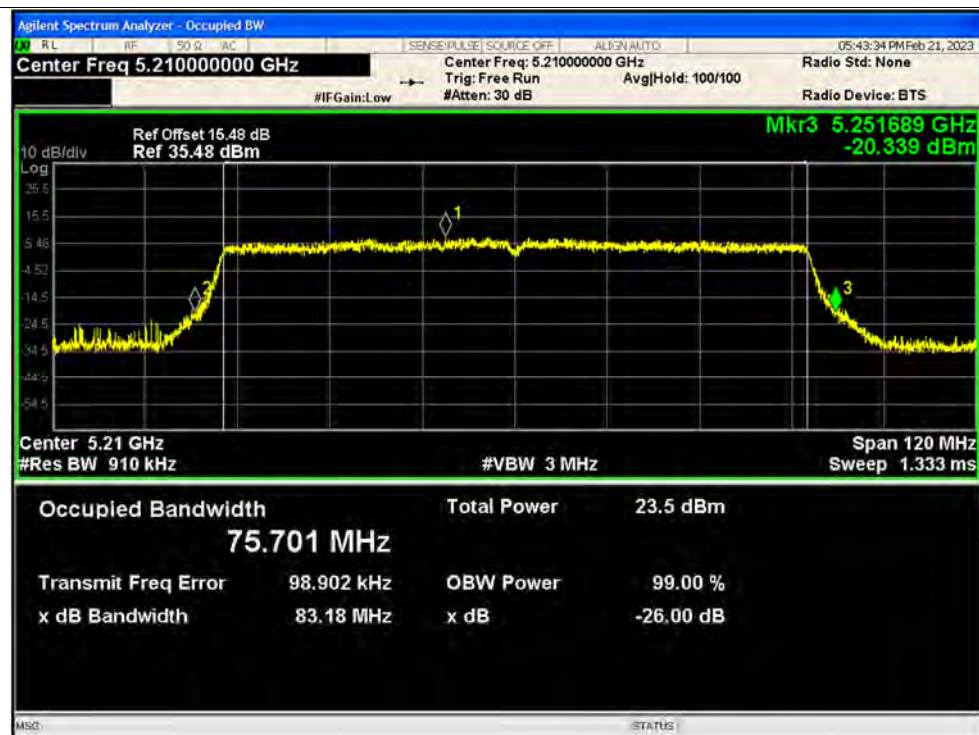




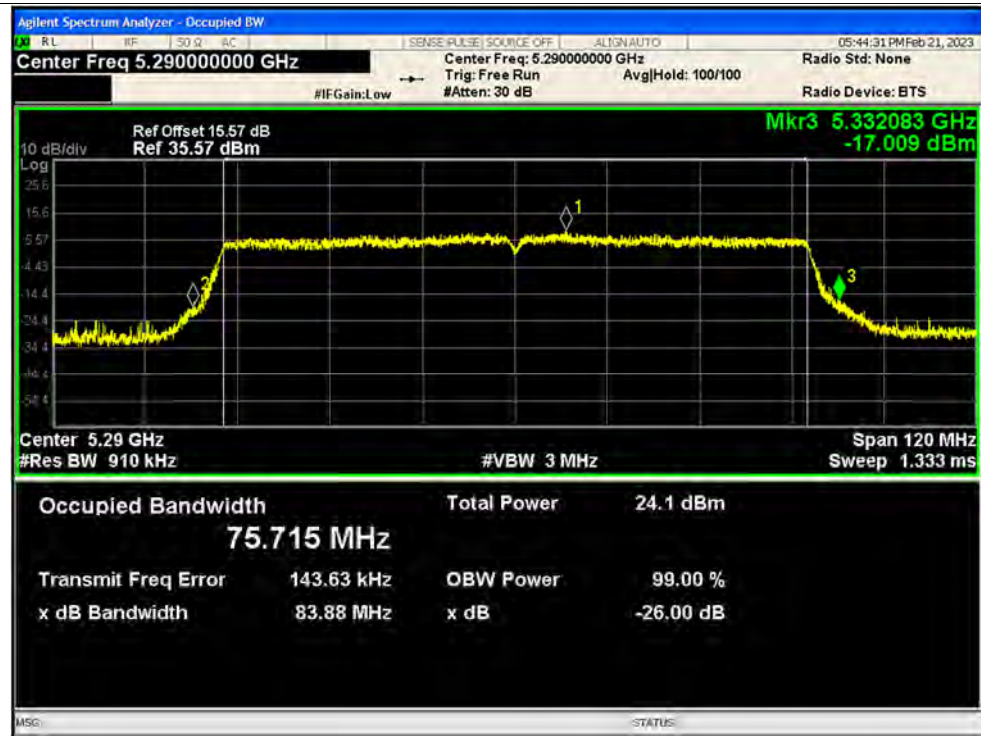
-26dB Bandwidth NVNT ac40 5670MHz Ant1



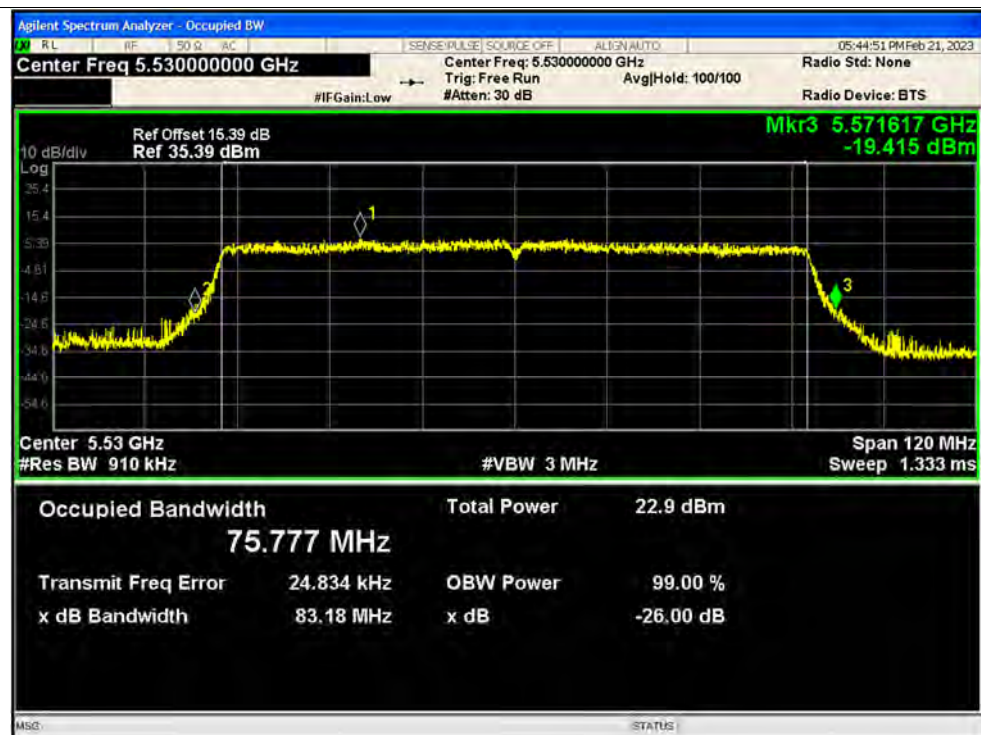
-26dB Bandwidth NVNT ac80 5210MHz Ant1



-26dB Bandwidth NVNT ac80 5290MHz Ant1

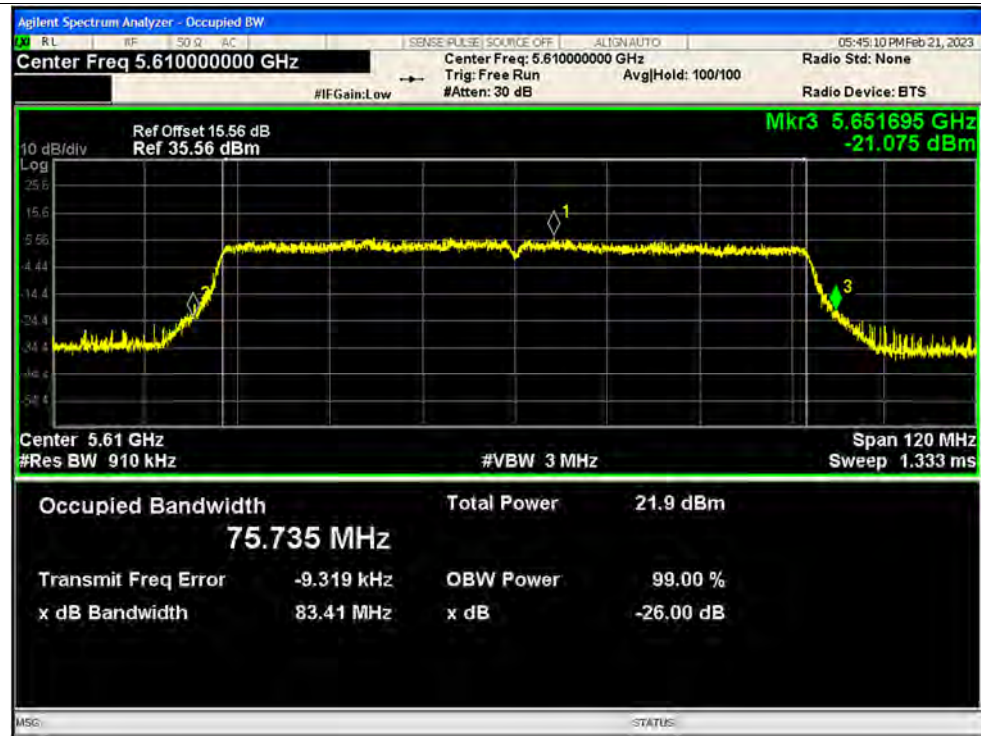


-26dB Bandwidth NVNT ac80 5530MHz Ant1

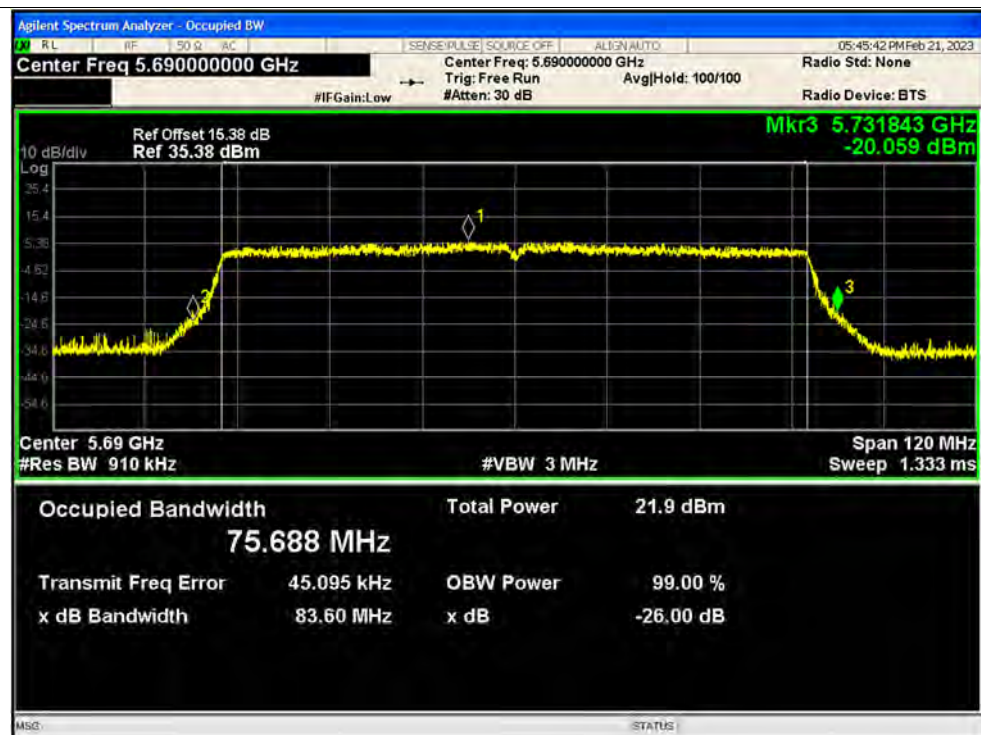




-26dB Bandwidth NVNT ac80 5610MHz Ant1



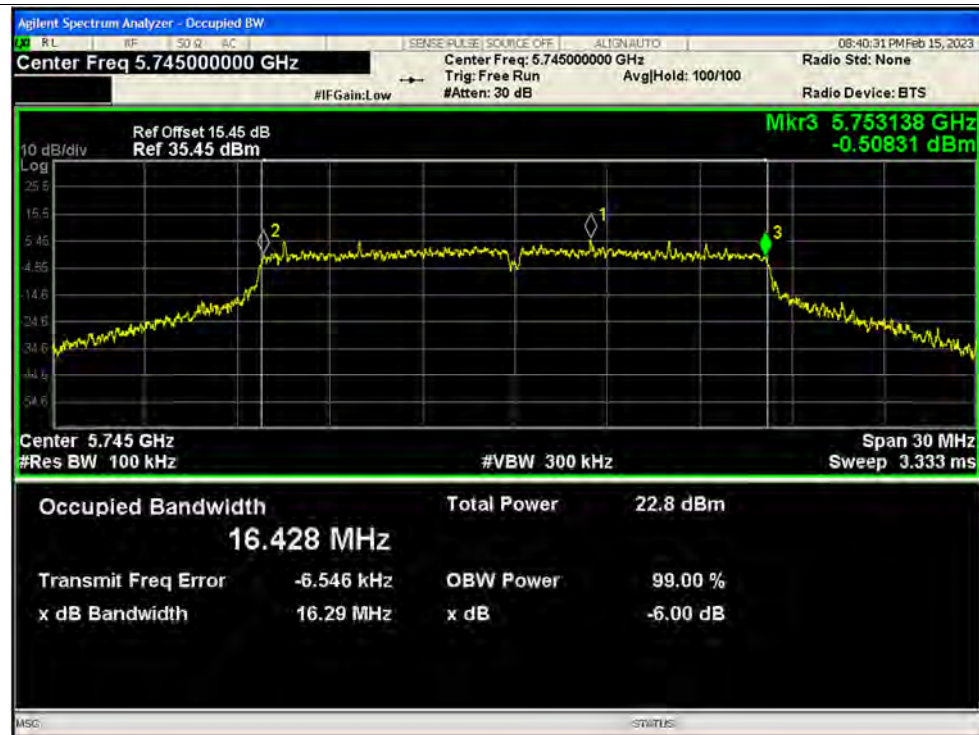
-26dB Bandwidth NVNT ac80 5690MHz Ant1





Test Graphs

-6dB Bandwidth NVNT a 5745MHz Ant1



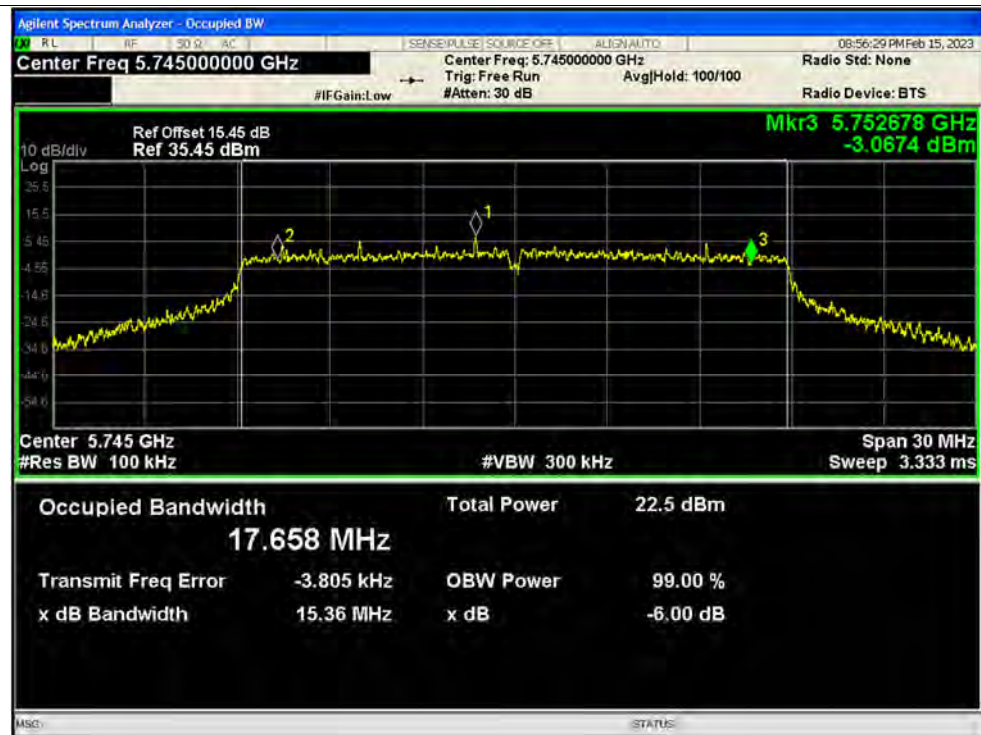
-6dB Bandwidth NVNT a 5785MHz Ant1



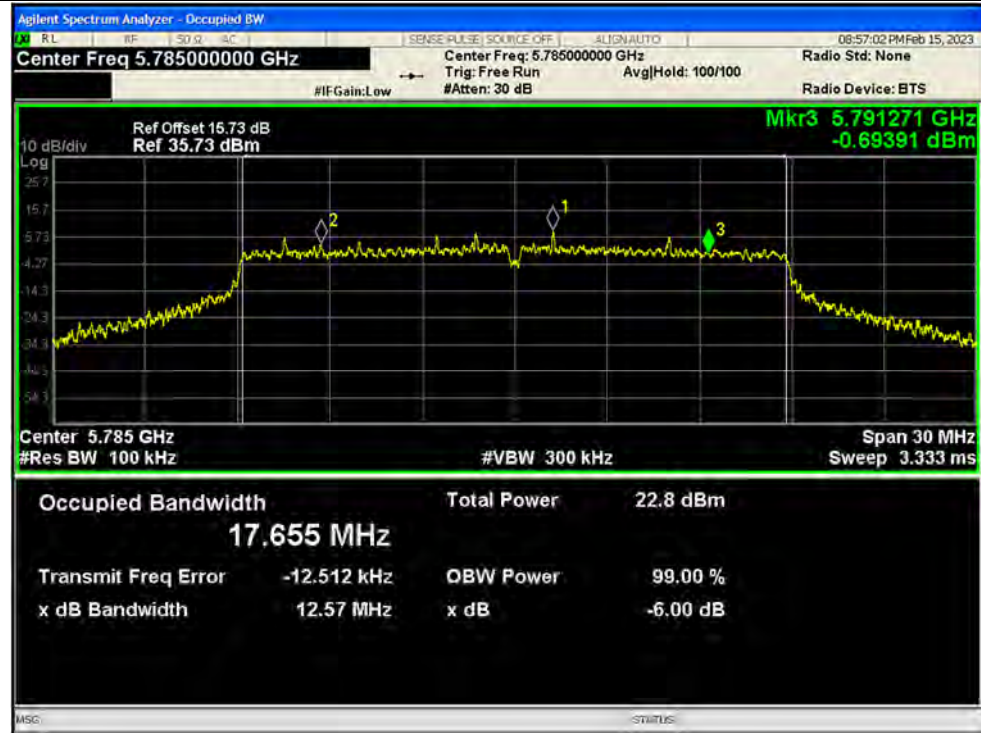
-6dB Bandwidth NVNT a 5825MHz Ant1



-6dB Bandwidth NVNT n20 5745MHz Ant1



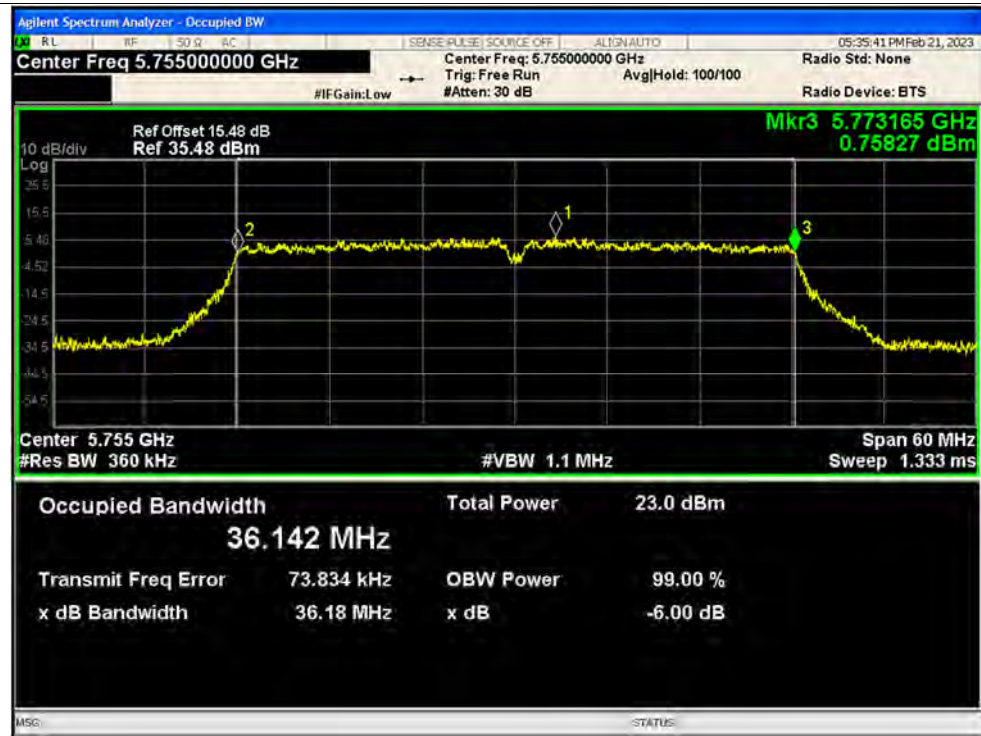
-6dB Bandwidth NVNT n20 5785MHz Ant1



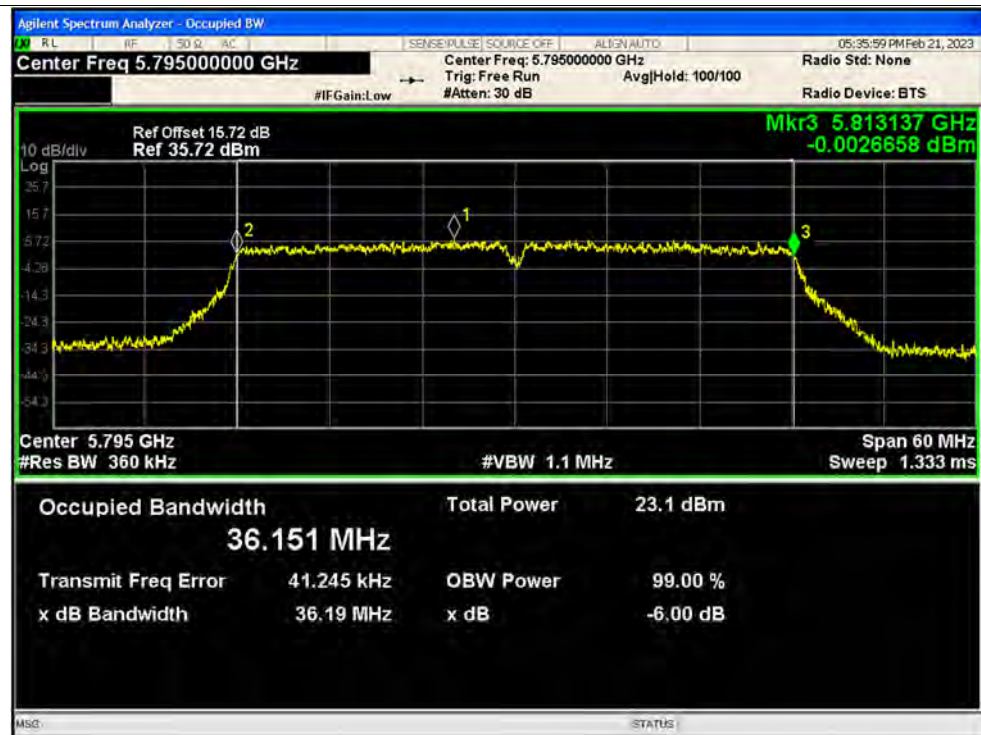
-6dB Bandwidth NVNT n20 5825MHz Ant1



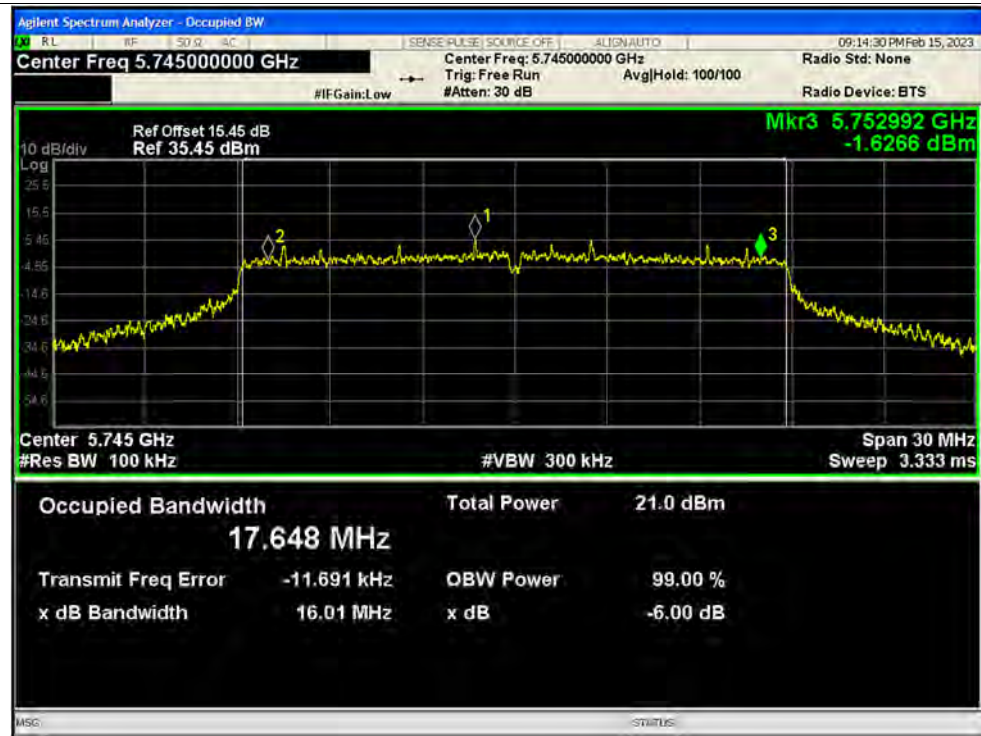
-6dB Bandwidth NVNT n40 5755MHz Ant1



-6dB Bandwidth NVNT n40 5795MHz Ant1



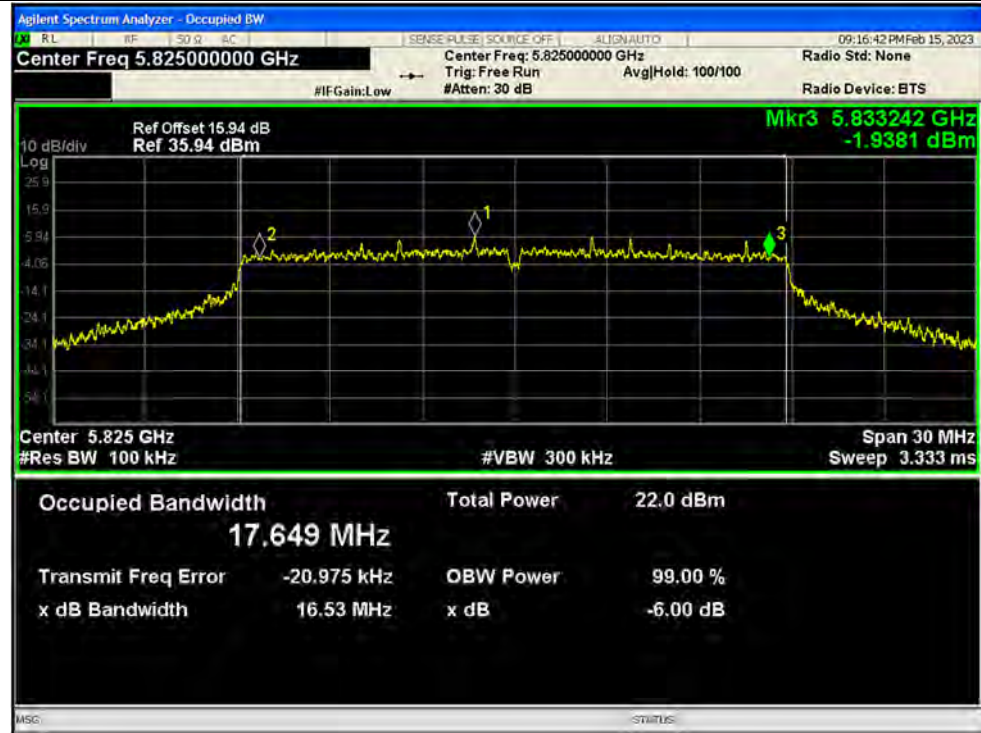
-6dB Bandwidth NVNT ac20 5745MHz Ant1



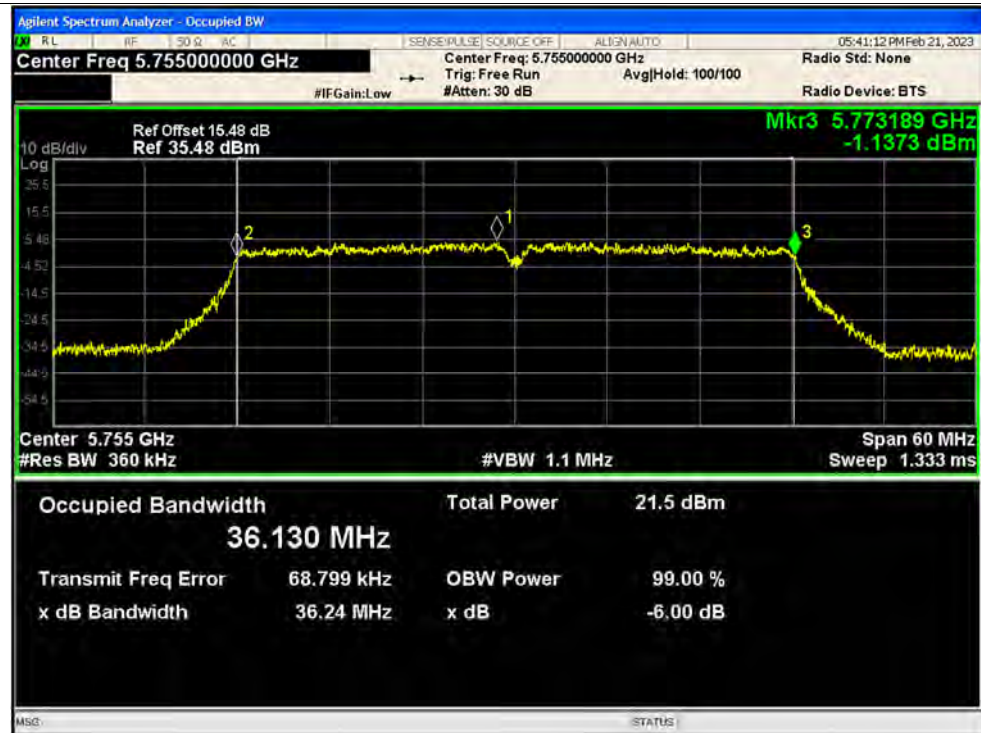
-6dB Bandwidth NVNT ac20 5785MHz Ant1



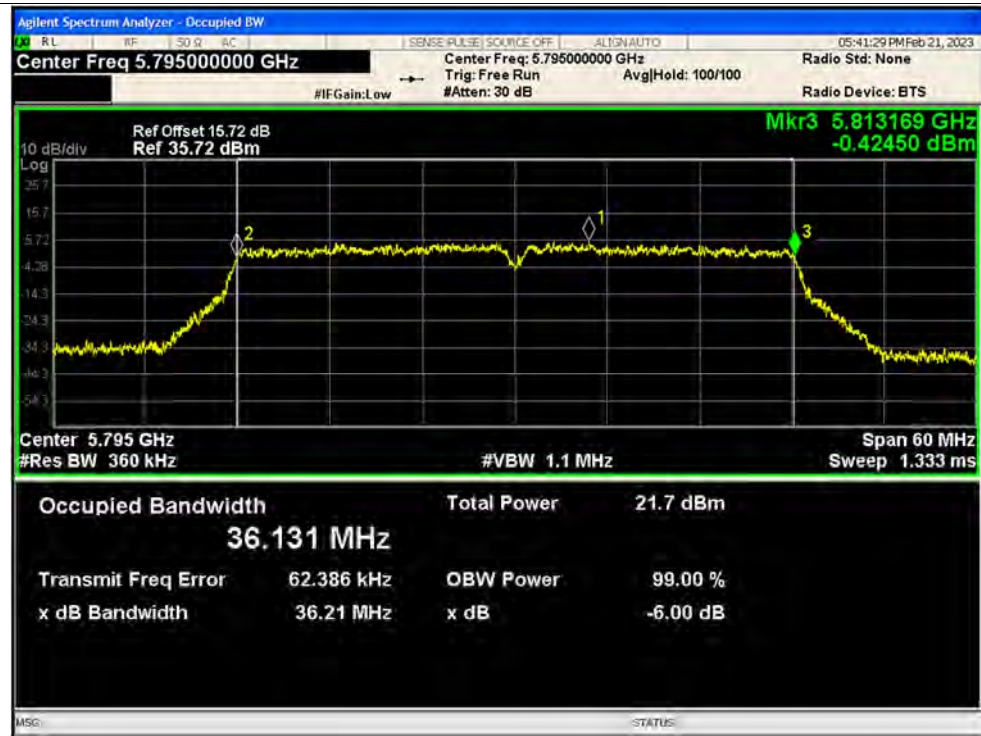
-6dB Bandwidth NVNT ac20 5825MHz Ant1



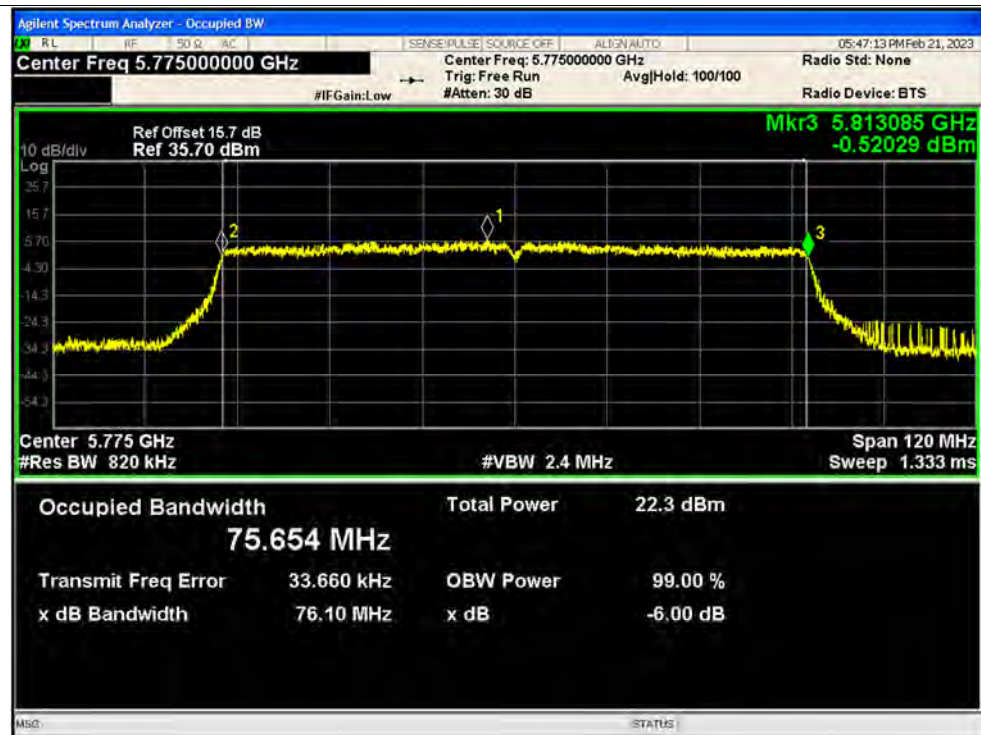
-6dB Bandwidth NVNT ac40 5755MHz Ant1



-6dB Bandwidth NVNT ac40 5795MHz Ant1



-6dB Bandwidth NVNT ac80 5775MHz Ant1



**A.4. Peak Power Spectral Density**

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	7.84	0.08	7.92	11	Pass
NVNT	a	5220	Ant1	8.16	0.08	8.24	11	Pass
NVNT	a	5240	Ant1	8.28	0.08	8.36	11	Pass
NVNT	a	5260	Ant1	8.39	0.06	8.45	11	Pass
NVNT	a	5300	Ant1	9.12	0.06	9.18	11	Pass
NVNT	a	5320	Ant1	9.08	0.06	9.14	11	Pass
NVNT	a	5500	Ant1	6.87	0.06	6.93	11	Pass
NVNT	a	5600	Ant1	5.65	0.06	5.71	11	Pass
NVNT	a	5700	Ant1	5.4	0.06	5.46	11	Pass
NVNT	a	5745	Ant1	3.52	0.06	3.58	30	Pass
NVNT	a	5785	Ant1	3.75	0.08	3.83	30	Pass
NVNT	a	5825	Ant1	4.54	0.06	4.6	30	Pass
NVNT	n20	5180	Ant1	7.12	0.06	7.18	11	Pass
NVNT	n20	5220	Ant1	7.49	0.06	7.55	11	Pass
NVNT	n20	5240	Ant1	7.74	0.06	7.8	11	Pass
NVNT	n20	5260	Ant1	7.69	0.06	7.75	11	Pass
NVNT	n20	5300	Ant1	8.39	0.08	8.47	11	Pass
NVNT	n20	5320	Ant1	8.54	0.06	8.6	11	Pass
NVNT	n20	5500	Ant1	6.43	0.09	6.52	11	Pass
NVNT	n20	5600	Ant1	5.23	0.07	5.3	11	Pass
NVNT	n20	5700	Ant1	4.56	0.07	4.63	11	Pass
NVNT	n20	5745	Ant1	2.94	0.07	3.01	30	Pass
NVNT	n20	5785	Ant1	3.09	0.07	3.16	30	Pass
NVNT	n20	5825	Ant1	3.81	0.09	3.9	30	Pass
NVNT	n40	5190	Ant1	4.25	0.18	4.43	11	Pass
NVNT	n40	5230	Ant1	4.45	0.14	4.59	11	Pass
NVNT	n40	5270	Ant1	4.99	0.14	5.13	11	Pass
NVNT	n40	5310	Ant1	5.42	0.14	5.56	11	Pass
NVNT	n40	5510	Ant1	3.36	0.18	3.54	11	Pass
NVNT	n40	5630	Ant1	1.76	0.14	1.9	11	Pass
NVNT	n40	5670	Ant1	1.74	0.14	1.88	11	Pass
NVNT	n40	5755	Ant1	-0.06	0.14	0.08	30	Pass
NVNT	n40	5795	Ant1	0.29	0.14	0.43	30	Pass
NVNT	ac20	5180	Ant1	5.73	0.07	5.8	11	Pass
NVNT	ac20	5220	Ant1	5.9	0.09	5.99	11	Pass



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NVNT	ac20	5240	Ant1	6.22	0.09	6.31	11	Pass
NVNT	ac20	5260	Ant1	6.34	0.07	6.41	11	Pass
NVNT	ac20	5300	Ant1	7.01	0.09	7.1	11	Pass
NVNT	ac20	5320	Ant1	7.19	0.07	7.26	11	Pass
NVNT	ac20	5500	Ant1	5.81	0.09	5.9	11	Pass
NVNT	ac20	5600	Ant1	4.66	0.07	4.73	11	Pass
NVNT	ac20	5700	Ant1	4.13	0.09	4.22	11	Pass
NVNT	ac20	5745	Ant1	1.34	0.09	1.43	30	Pass
NVNT	ac20	5785	Ant1	1.77	0.09	1.86	30	Pass
NVNT	ac20	5825	Ant1	2.26	0.09	2.35	30	Pass
NVNT	ac40	5190	Ant1	2.96	0.18	3.14	11	Pass
NVNT	ac40	5230	Ant1	3.25	0.18	3.43	11	Pass
NVNT	ac40	5270	Ant1	3.71	0.18	3.89	11	Pass
NVNT	ac40	5310	Ant1	4.16	0.13	4.29	11	Pass
NVNT	ac40	5510	Ant1	3.09	0.18	3.27	11	Pass
NVNT	ac40	5630	Ant1	1.97	0.13	2.1	11	Pass
NVNT	ac40	5670	Ant1	2.11	0.13	2.24	11	Pass
NVNT	ac40	5755	Ant1	-0.6	0.13	-0.47	30	Pass
NVNT	ac40	5795	Ant1	-0.42	0.18	-0.24	30	Pass
NVNT	ac80	5210	Ant1	0.28	0.36	0.64	11	Pass
NVNT	ac80	5290	Ant1	1.18	0.36	1.54	11	Pass
NVNT	ac80	5530	Ant1	0.21	0.27	0.48	11	Pass
NVNT	ac80	5610	Ant1	-0.63	0.27	-0.36	11	Pass
NVNT	ac80	5690	Ant1	-0.84	0.36	-0.48	11	Pass
NVNT	ac80	5775	Ant1	-3.56	0.27	-3.29	30	Pass

Test Graphs

PSD NVNT a 5180MHz Ant1



PSD NVNT a 5220MHz Ant1



PSD NVNT a 5240MHz Ant1



PSD NVNT a 5260MHz Ant1



PSD NVNT a 5300MHz Ant1



PSD NVNT a 5320MHz Ant1





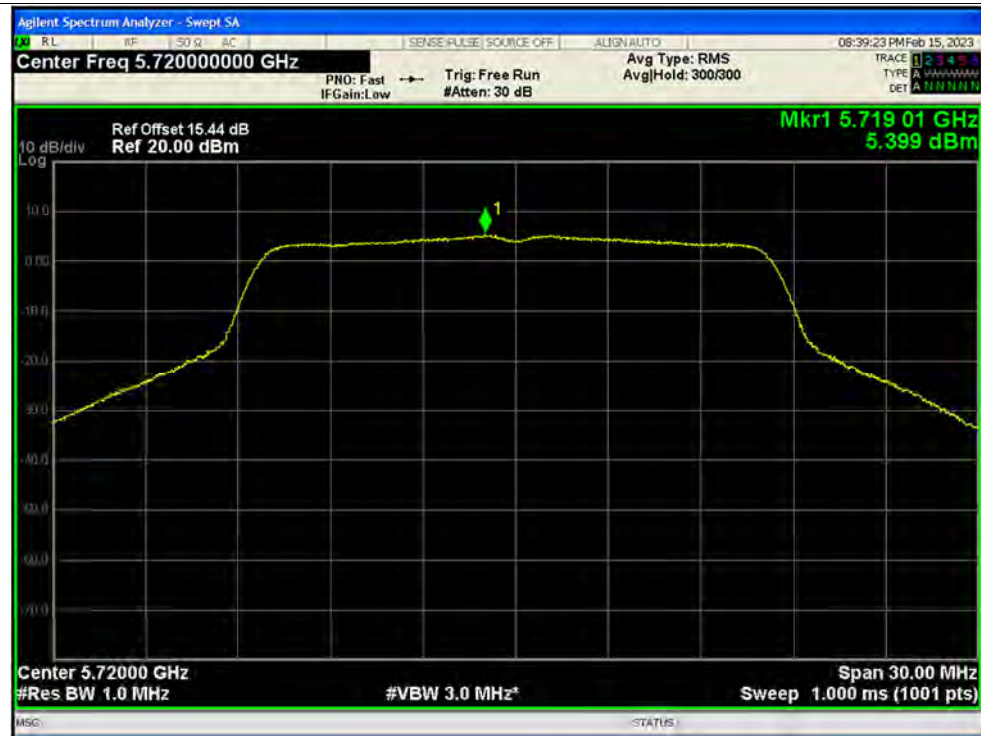
PSD NVNT a 5500MHz Ant1



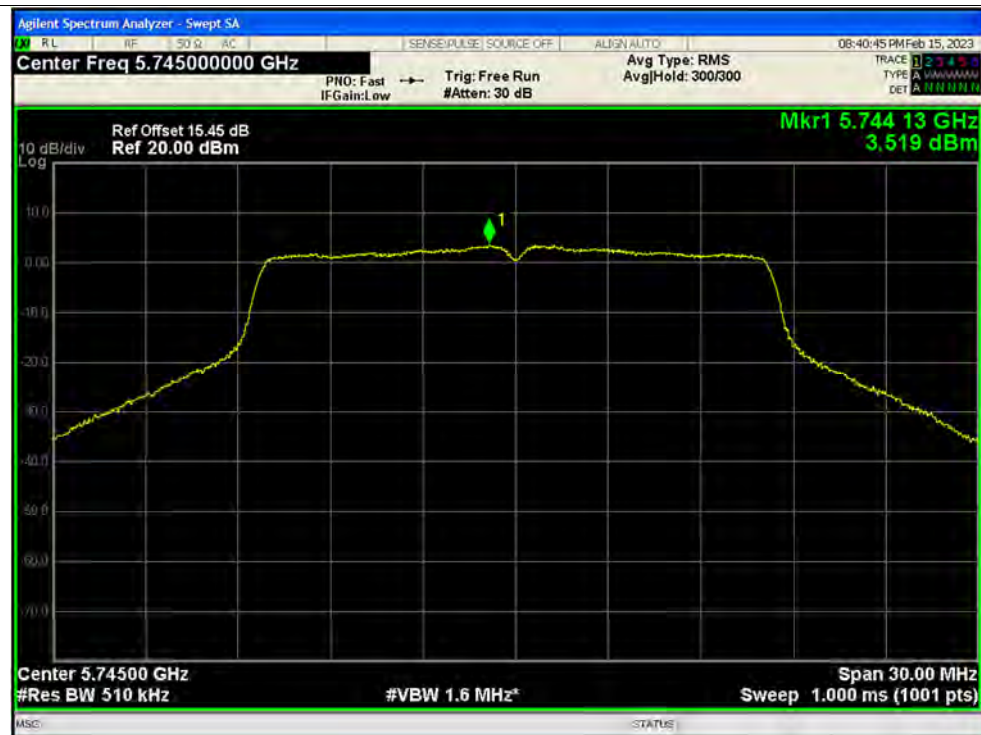
PSD NVNT a 5600MHz Ant1



PSD NVNT a 5700MHz Ant1



PSD NVNT a 5745MHz Ant1





PSD NVNT a 5785MHz Ant1



PSD NVNT a 5825MHz Ant1



PSD NVNT n20 5180MHz Ant1



PSD NVNT n20 5220MHz Ant1



PSD NVNT n20 5240MHz Ant1



PSD NVNT n20 5260MHz Ant1





PSD NVNT n20 5300MHz Ant1



PSD NVNT n20 5320MHz Ant1





Agilent Spectrum Analyzer - Swept SA

Center Freq 5.600000000 GHz

Ref Offset 16.44 dB
Ref 20.00 dBm

Mkr1 5.598 83 GHz
5.228 dBm

10 dB/div
Log

Center 5.60000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Span 30.00 MHz
Sweep 1.000 ms (1001 pts)

PN0: Fast
IFGain: Low

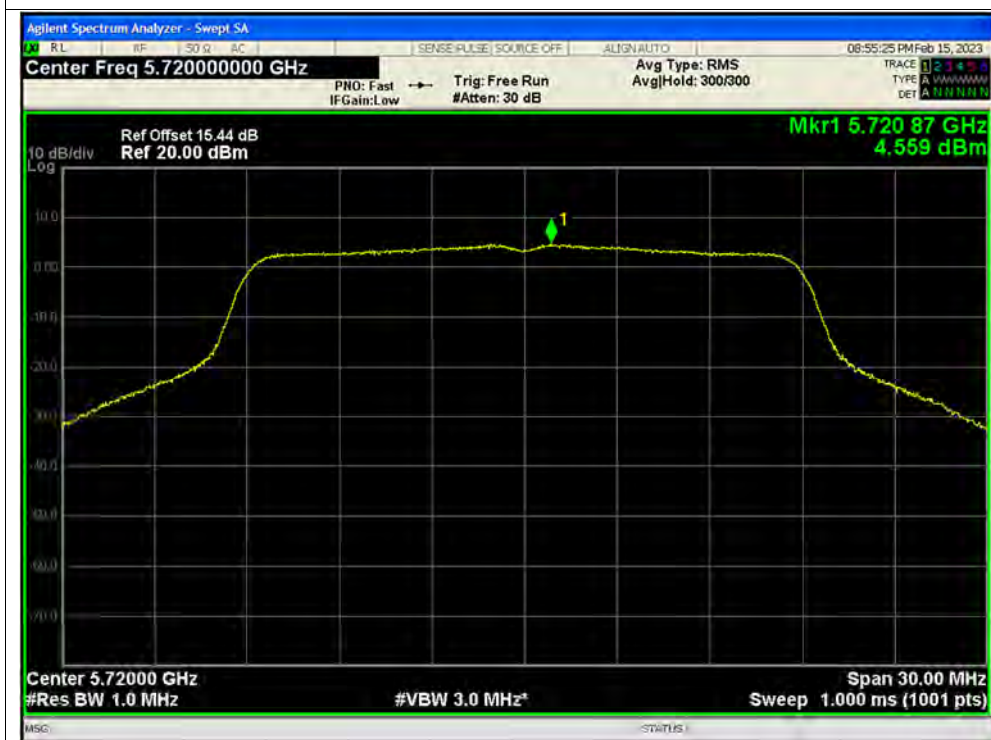
Trig: Free Run
#Atten: 30 dB

Avg Type: RMS
AvalHold: 300/300

08:54:24 PM Feb 15, 2023

TRACE 0
TYPE A
DET A

PSD NVNT n20 5700MHz Ant1



PSD NVNT n20 5745MHz Ant1



PSD NVNT n20 5785MHz Ant1



PSD NVNT n20 5825MHz Ant1



PSD NVNT n40 5190MHz Ant1



PSD NVNT n40 5230MHz Ant1





PSD NVNT n40 5270MHz Ant1



PSD NVNT n40 5310MHz Ant1





PSD NVNT n40 5510MHz Ant1



PSD NVNT n40 5630MHz Ant1





PSD NVNT n40 5710MHz Ant1



PSD NVNT n40 5755MHz Ant1





PSD NVNT n40 5795MHz Ant1



PSD NVNT ac20 5180MHz Ant1



PSD NVNT ac20 5220MHz Ant1



PSD NVNT ac20 5240MHz Ant1



PSD NVNT ac20 5260MHz Ant1



PSD NVNT ac20 5300MHz Ant1



PSD NVNT ac20 5320MHz Ant1



PSD NVNT ac20 5500MHz Ant1



PSD NVNT ac20 5600MHz Ant1

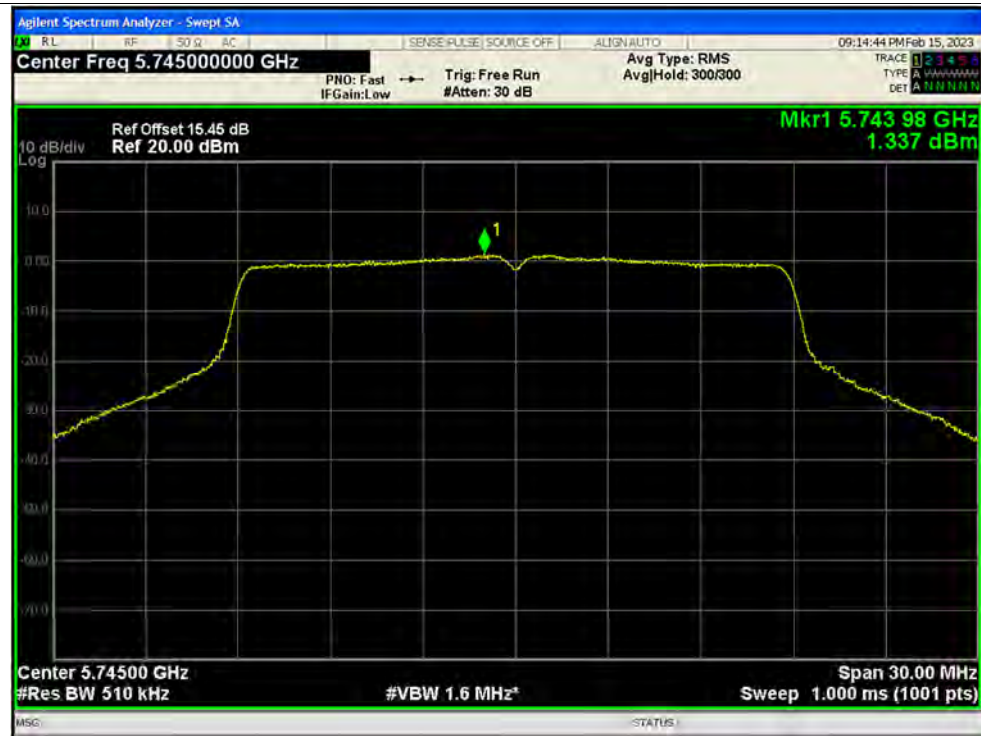


PSD NVNT ac20 5720MHz Ant1





PSD NVNT ac20 5745MHz Ant1



PSD NVNT ac20 5785MHz Ant1



PSD NVNT ac20 5825MHz Ant1



PSD NVNT ac40 5190MHz Ant1





PSD NVNT ac40 5230MHz Ant1



PSD NVNT ac40 5270MHz Ant1



PSD NVNT ac40 5310MHz Ant1



PSD NVNT ac40 5510MHz Ant1



PSD NVNT ac40 5630MHz Ant1



PSD NVNT ac40 5710MHz Ant1



PSD NVNT ac40 5755MHz Ant1



PSD NVNT ac40 5795MHz Ant1



PSD NVNT ac80 5210MHz Ant1



PSD NVNT ac80 5290MHz Ant1





PSD NVNT ac80 5530MHz Ant1



PSD NVNT ac80 5610MHz Ant1



PSD NVNT ac80 5690MHz Ant1



PSD NVNT ac80 5775MHz Ant1



**A.5. Frequency Stability**

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
20C 3.6;4.48V	a	5180	Ant1	5180.004	4000	0.77	25	Pass
-30;-20C 3.89V	a	5180	Ant1	5180.004	4000	0.77	25	Pass
-10C 3.89V	a	5180	Ant1	5180.004	4000	0.77	25	Pass
0C 3.89V	a	5180	Ant1	5180.003	3000	0.58	25	Pass
10C 3.89V	a	5180	Ant1	5180.003	3000	0.58	25	Pass
20C 3.89V	a	5180	Ant1	5180.003	3000	0.58	25	Pass
30C 3.89V	a	5180	Ant1	5180.003	3000	0.58	25	Pass
40C 3.89V	a	5180	Ant1	5180.003	3000	0.58	25	Pass
50C 3.89V	a	5180	Ant1	5180.003	3000	0.58	25	Pass
20C 3.6;4.48V	a	5260	Ant1	5260.002	2000	0.38	25	Pass
-30;-20C 3.89V	a	5260	Ant1	5260.002	2000	0.38	25	Pass
-10C 3.89V	a	5260	Ant1	5260.002	2000	0.38	25	Pass
0C 3.89V	a	5260	Ant1	5260.001	1000	0.19	25	Pass
10C 3.89V	a	5260	Ant1	5260.001	1000	0.19	25	Pass
20C 3.89V	a	5260	Ant1	5260.001	1000	0.19	25	Pass
30C 3.89V	a	5260	Ant1	5260.001	1000	0.19	25	Pass
40C 3.89V	a	5260	Ant1	5260.001	1000	0.19	25	Pass
50C 3.89V	a	5260	Ant1	5260.001	1000	0.19	25	Pass
20C 3.6;4.48V	a	5500	Ant1	5500	0	0	25	Pass
-30;-20C 3.89V	a	5500	Ant1	5500	0	0	25	Pass
-10C 3.89V	a	5500	Ant1	5500	0	0	25	Pass
0C 3.89V	a	5500	Ant1	5500	0	0	25	Pass
10C 3.89V	a	5500	Ant1	5500	0	0	25	Pass
20C 3.89V	a	5500	Ant1	5500	0	0	25	Pass
30C 3.89V	a	5500	Ant1	5500	0	0	25	Pass
40C 3.89V	a	5500	Ant1	5500	0	0	25	Pass
50C 3.89V	a	5500	Ant1	5500	0	0	25	Pass
20C	a	5745	Ant1	5745	0	0	25	Pass



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3.6;4.48V								
-30;-20C 3.89V	a	5745	Ant1	5745	0	0	25	Pass
-10C 3.89V	a	5745	Ant1	5745	0	0	25	Pass
0C 3.89V	a	5745	Ant1	5745	0	0	25	Pass
10C 3.89V	a	5745	Ant1	5745	0	0	25	Pass
20C 3.89V	a	5745	Ant1	5745	0	0	25	Pass
30C 3.89V	a	5745	Ant1	5745	0	0	25	Pass
40C 3.89V	a	5745	Ant1	5744.999	-1000	-0.17	25	Pass
50C 3.89V	a	5745	Ant1	5744.999	-1000	-0.17	25	Pass

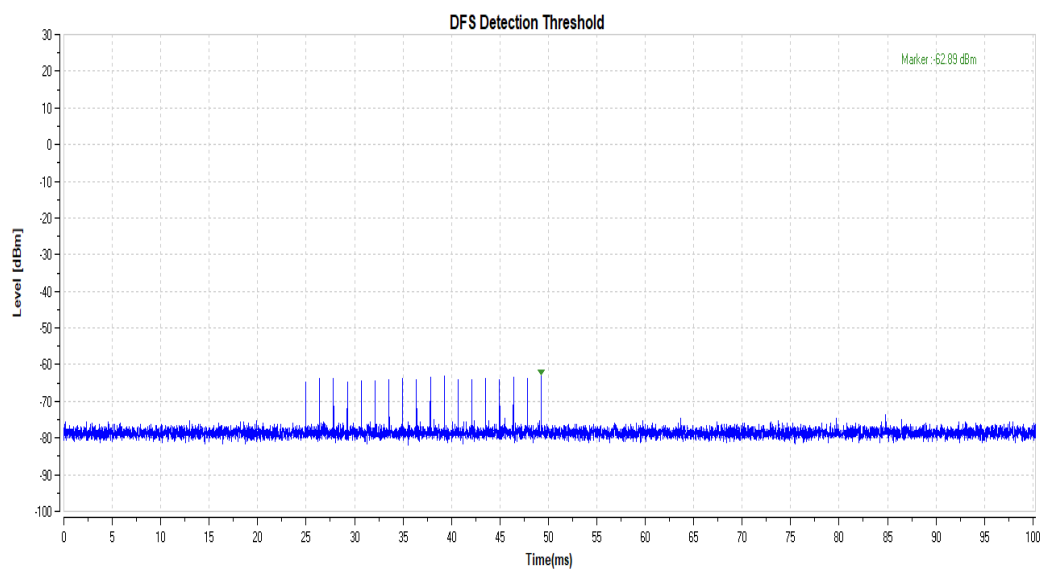


A.6. Dynamic Frequency Selection

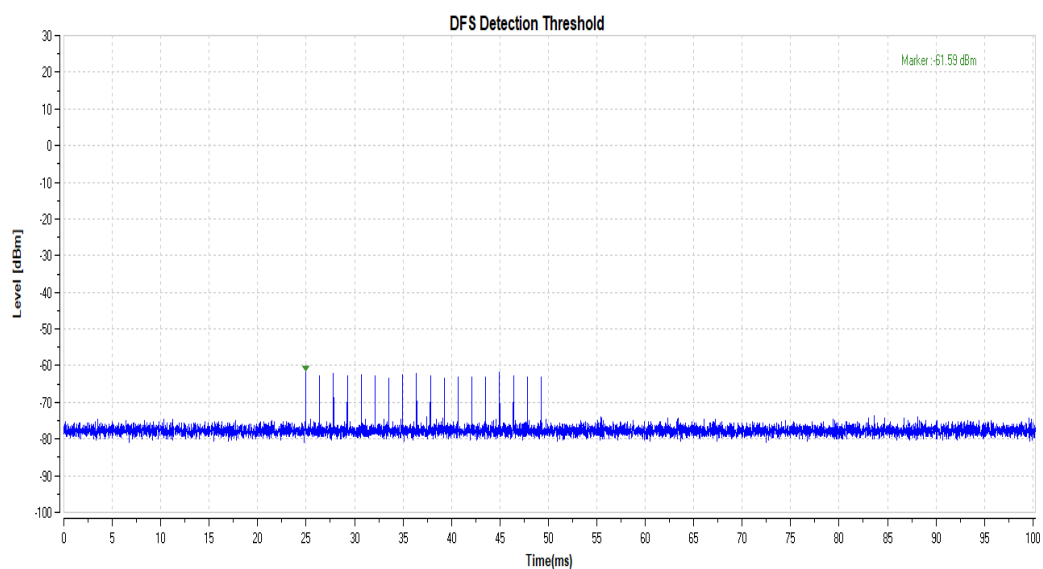
Detection Thresholds

TestMode	Channel	Radar Type	Result	Limit[dbm]	Verdict
11AC20SISO	5320	Reference	-62.89	-56.70	PASS
	5500	Reference	-61.59	-56.70	PASS
11AC80SISO	5290	Reference	-62.71	-56.70	PASS
	5530	Reference	-63.17	-56.70	PASS

11AC20SISO_5320_Reference

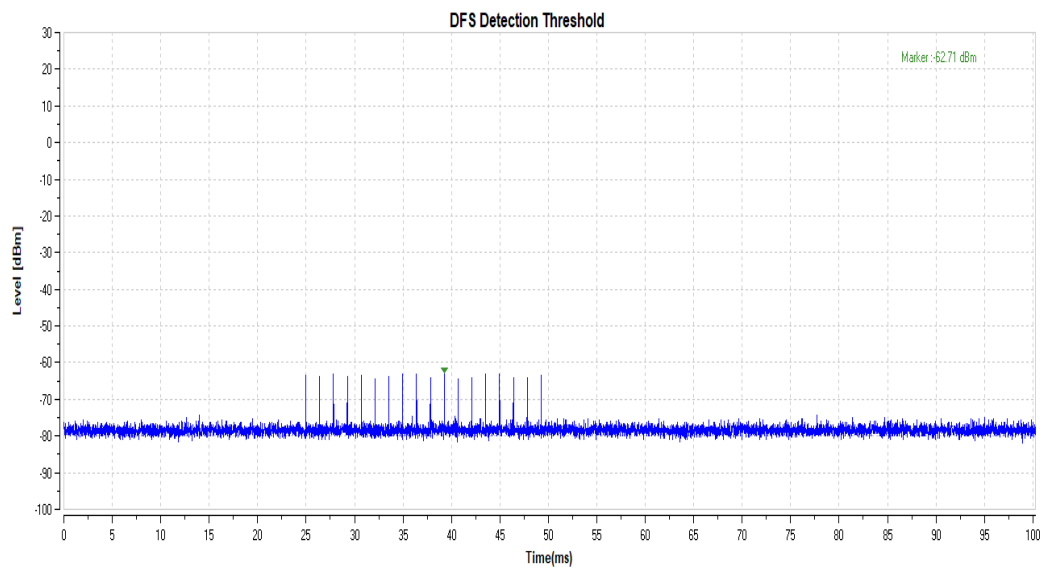


11AC20SISO_5500_Reference

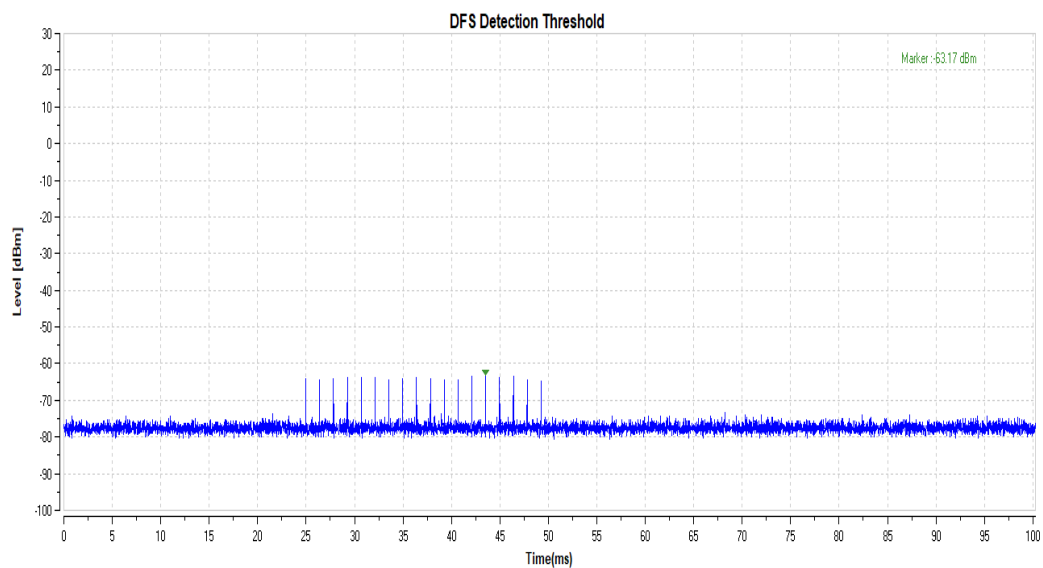




11AC80SISO_5290_Reference



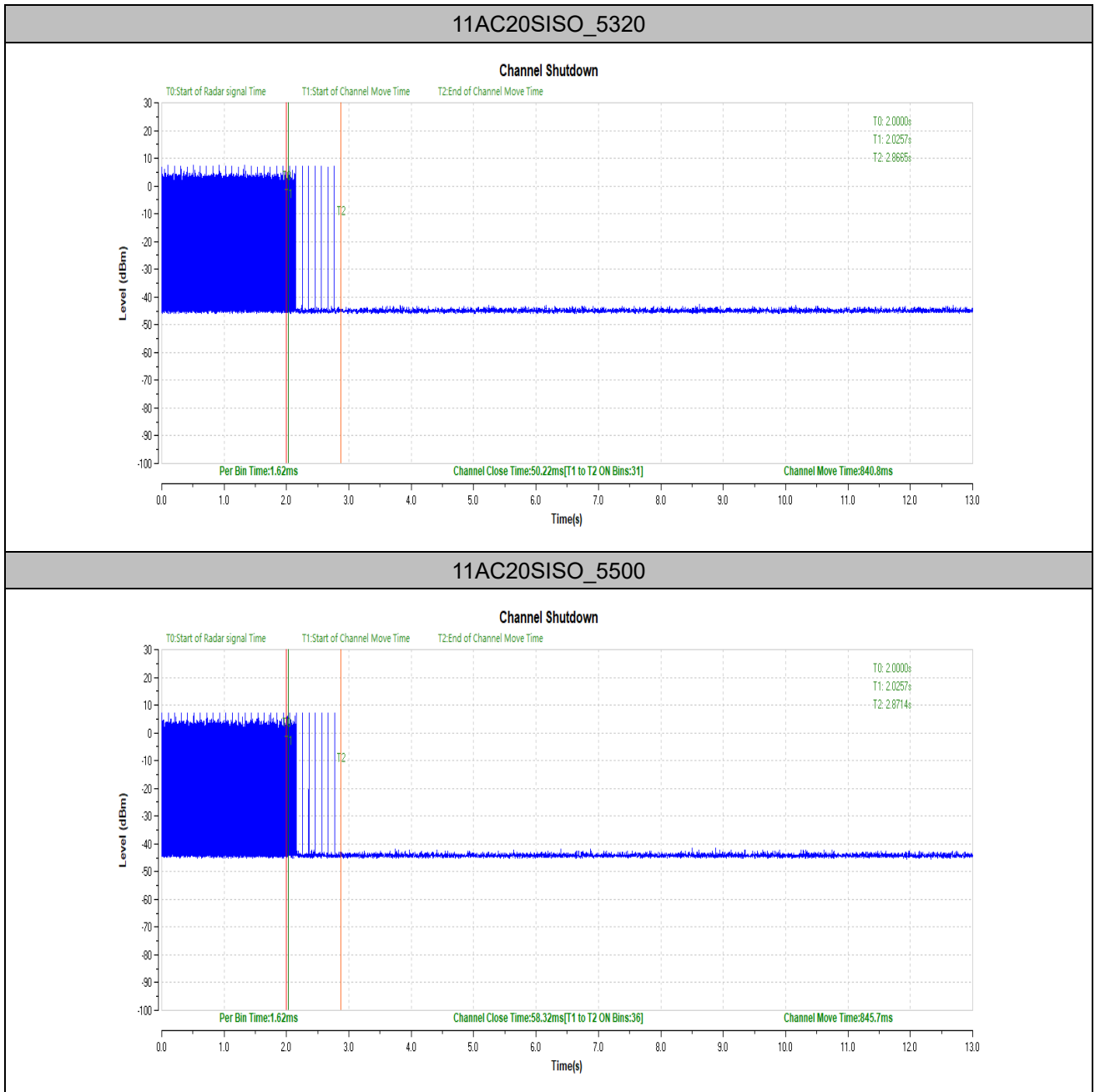
11AC80SISO_5530_Reference



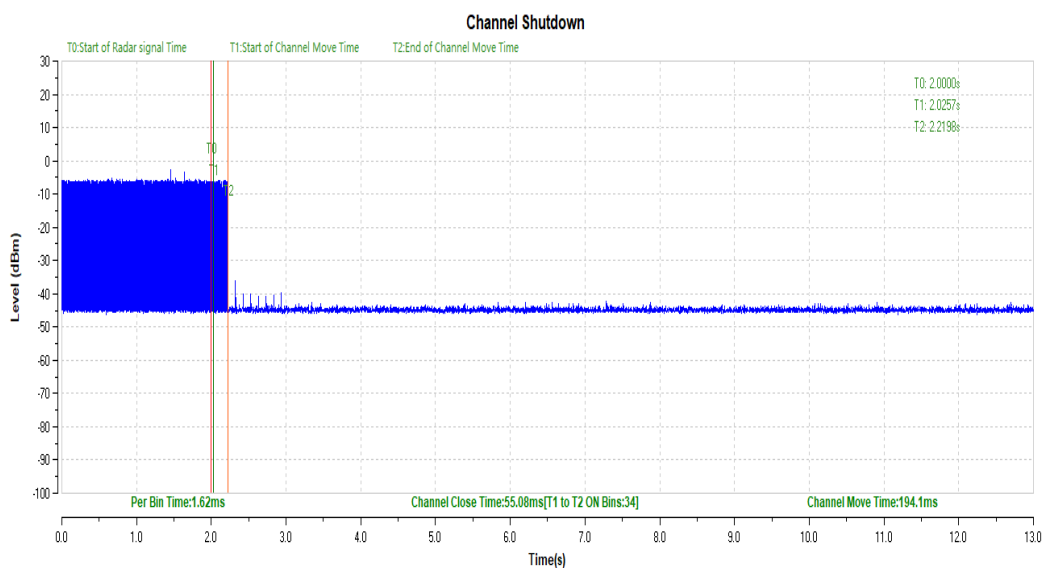


Channel Move Time and Channel Closing Transmission Time

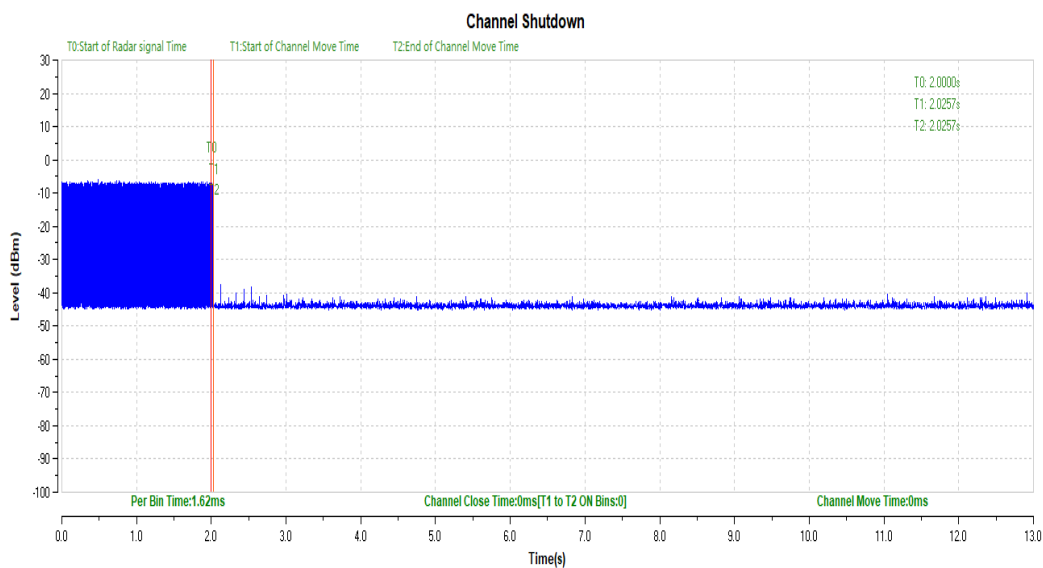
TestMode	Channel	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AC20SISO	5320	50.22	260	840.8	10000	PASS
	5500	58.32	260	845.7	10000	PASS
11AC80SISO	5290	55.08	260	194.1	10000	PASS
	5530	0	260	0	10000	PASS



11AC80SISO_5290



11AC80SISO_5530

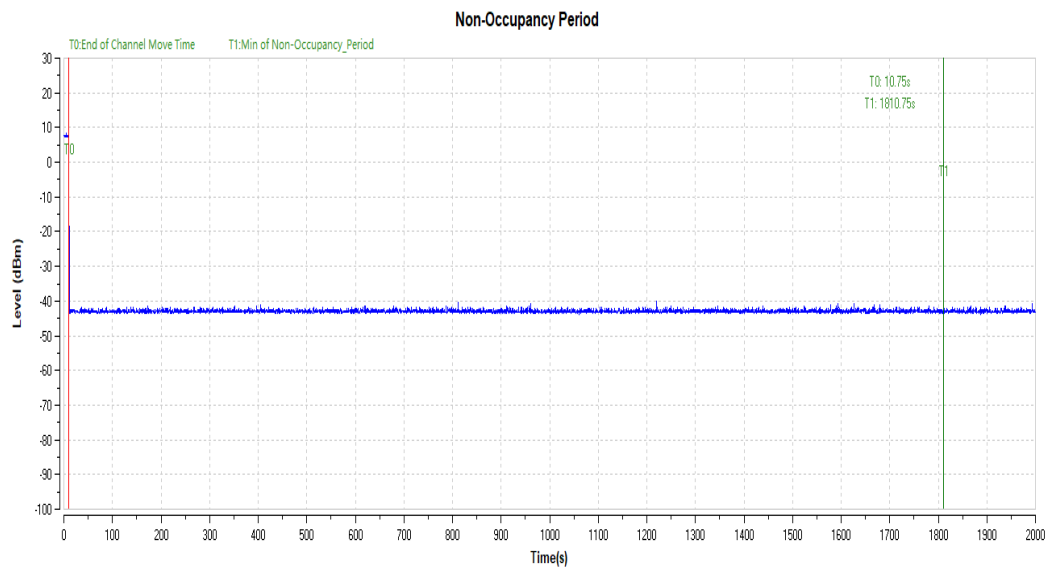




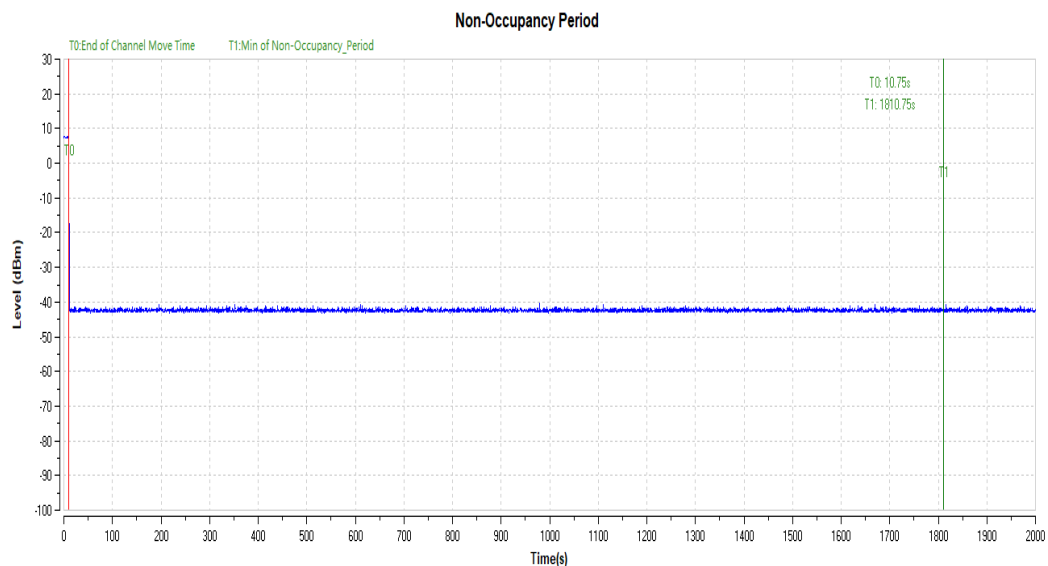
Non-Occupancy Period

TestMode	Channel	Result	Limit[s]	Verdict
11AC20SISO	5320	see test graph	≥ 1800	PASS
	5500	see test graph	≥ 1800	PASS

11AC20SISO_5320



11AC20SISO_5500





A.7. Conducted Emission

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 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:

Test Mode: EUT + ADAPTER + USB CABLE + EARPHONE +WIFI TX

Test voltage: AC 120V/60Hz

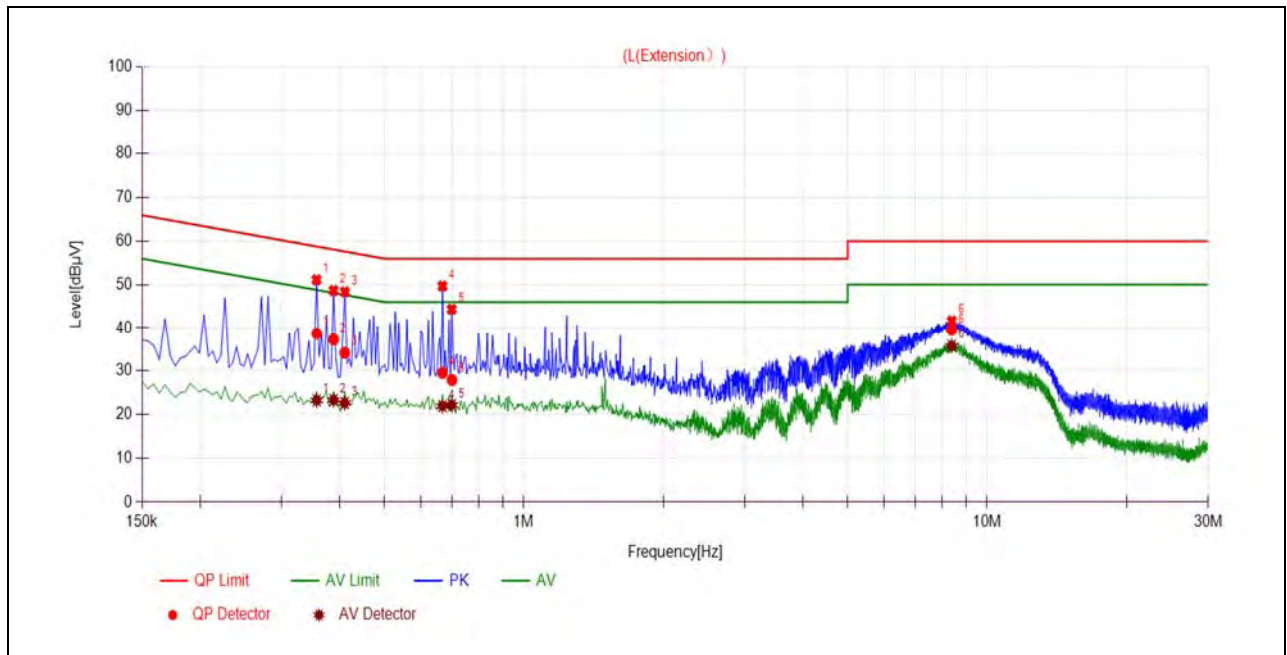
The measurement results are obtained as below:

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

U_R : Receiver Reading

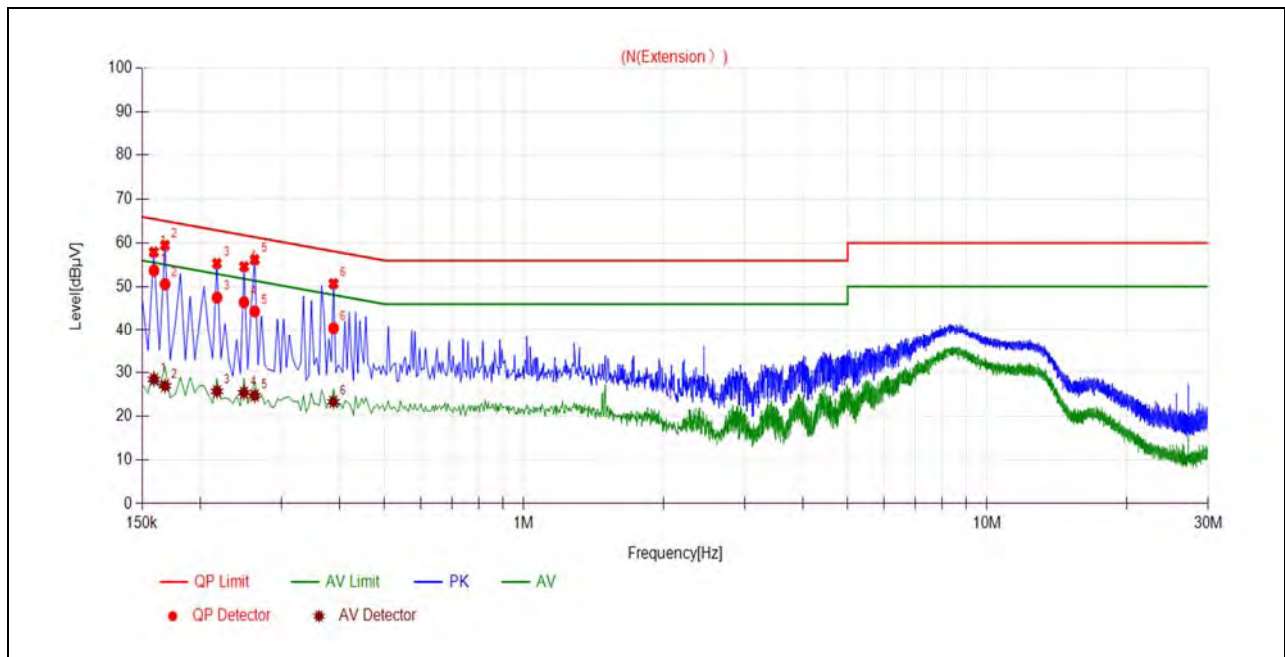
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.3573	38.66	23.21	58.79	48.79	Line	PASS
2	0.3885	37.23	23.28	58.09	48.09		PASS
3	0.4107	34.14	22.61	57.63	47.63		PASS
4	0.6675	29.54	21.92	56.00	46.00		PASS
5	0.6995	27.88	22.14	56.00	46.00		PASS
6	8.3837	39.48	35.76	60.00	50.00		PASS



(N Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1591	53.68	28.47	65.51	55.51	Neutral	PASS
2	0.1681	50.55	26.99	65.05	55.05		PASS
3	0.2177	47.47	25.71	62.91	52.91		PASS
4	0.2489	46.40	25.38	61.79	51.79		PASS
5	0.2625	44.30	24.75	61.35	51.35		PASS
6	0.3883	40.46	23.30	58.10	48.10		PASS



A.8. Restricted Frequency Bands

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

The measurement results are obtained as below:

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

A_T : Total correction Factor except Antenna

U_R : Receiver Reading

G_{preamp} : Preamplifier Gain

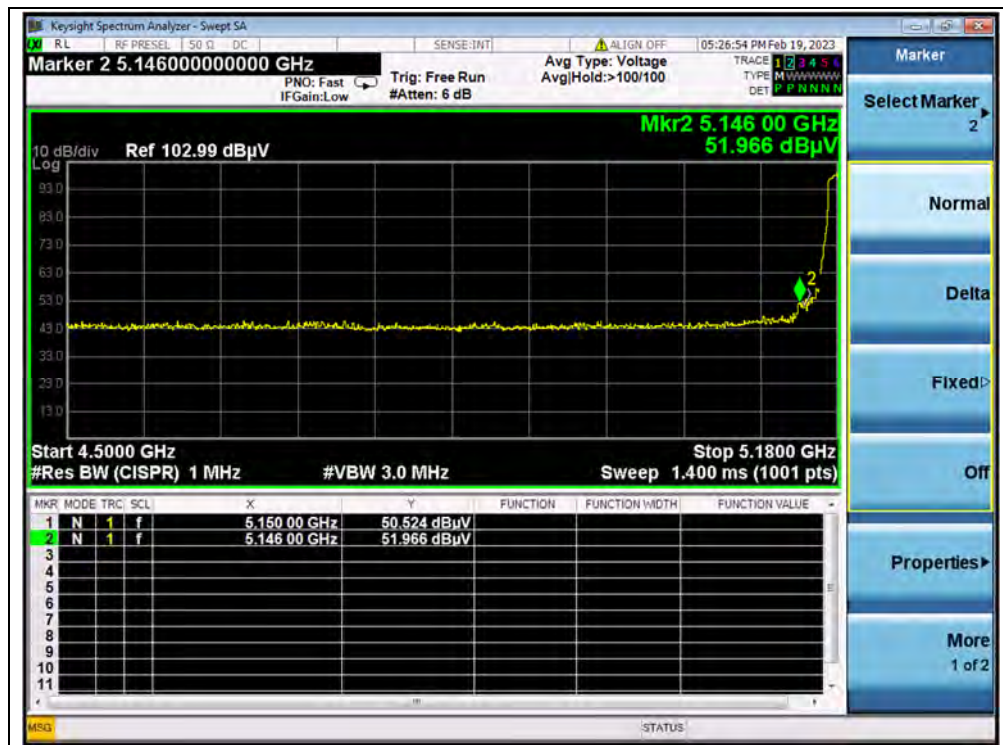
A_{Factor} : Antenna Factor at 3m

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

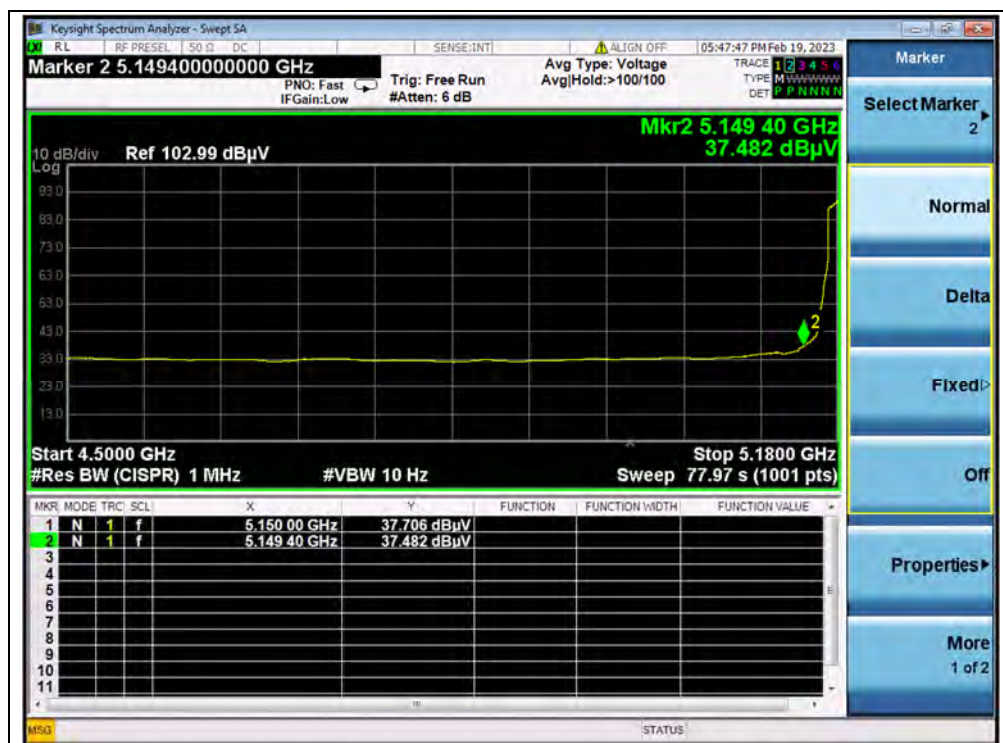
Note 2 All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.

802.11a Mode

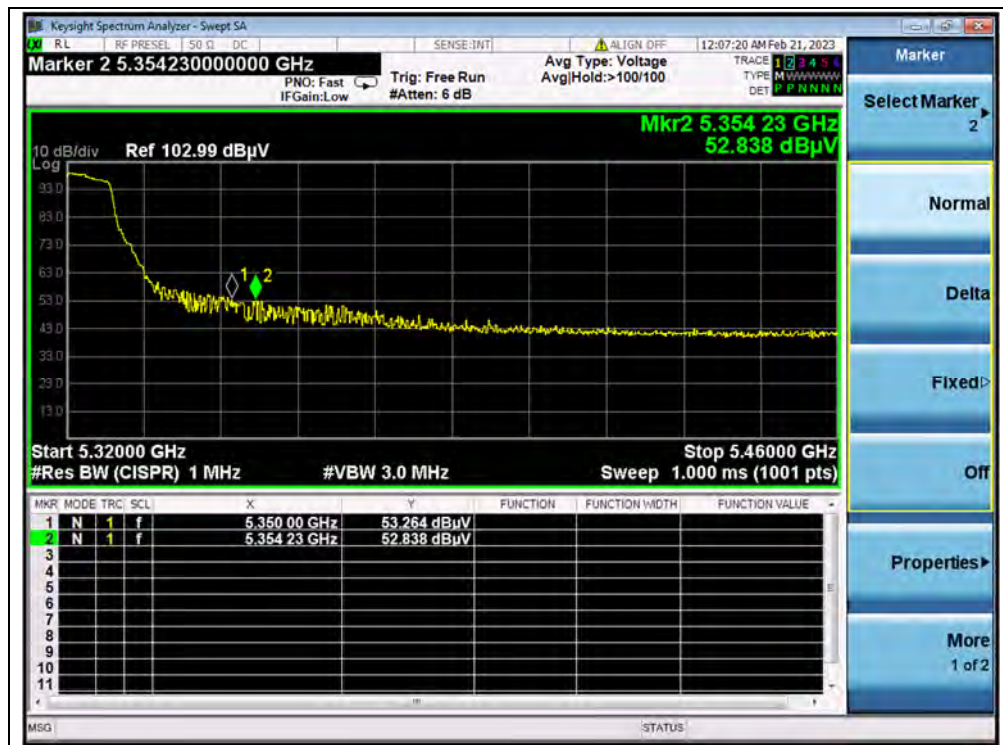
Channel	Frequency (MHz)	Detector	Receiver Reading	A _T (dB)	A _{Factor} (dB@3m)	Max. Emission	Limit (dBμV/m)	Verdict
		PK/ AV	U _R (dBμV)			E (dBμV/m)		
36	5146.00	PK	51.97	-19.54	32.20	64.63	74	PASS
36	5150.00	AV	37.71	-19.54	32.20	50.37	54	PASS
64	5350.00	PK	53.26	-18.80	32.20	66.66	74	PASS
64	5350.00	AV	36.70	-18.80	32.20	50.10	54	PASS
100	5467.70	PK	51.73	-19.20	32.20	64.73	68.23	PASS
100	5460.00	AV	34.76	-19.20	32.20	47.76	54	PASS
144	5732.50	PK	48.20	-19.20	32.20	61.20	68.23	PASS
149	5725.00	PK	53.56	-19.01	32.20	66.75	122.23	PASS
165	5855.00	PK	48.52	-19.01	32.20	61.71	110.83	PASS



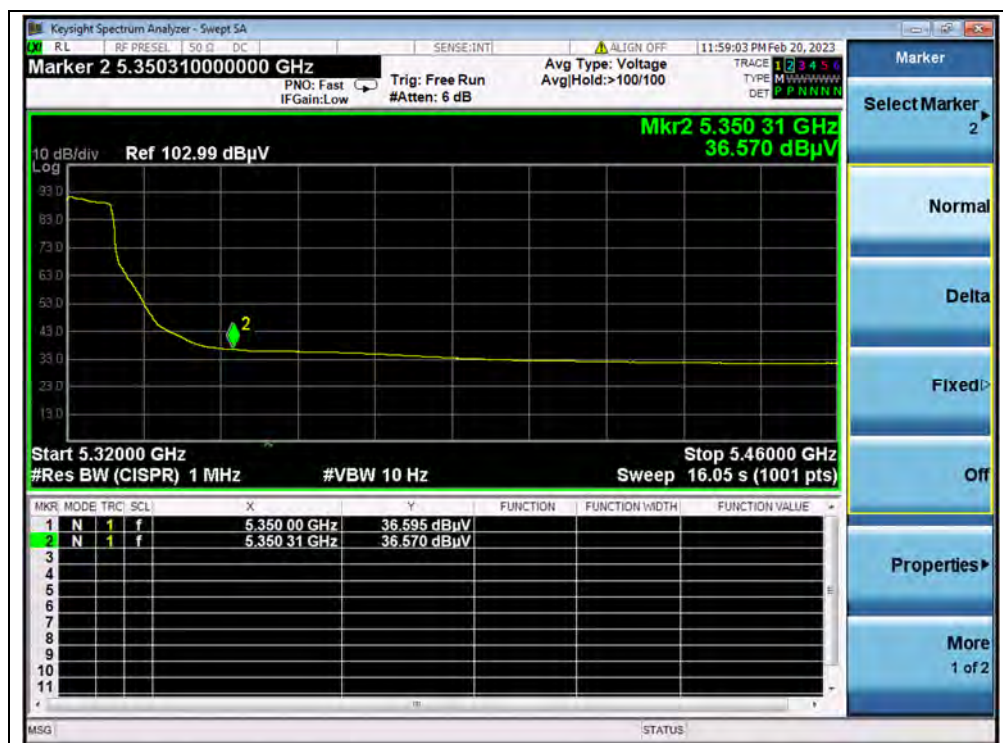
(PEAK, Channel 36, 802.11a)



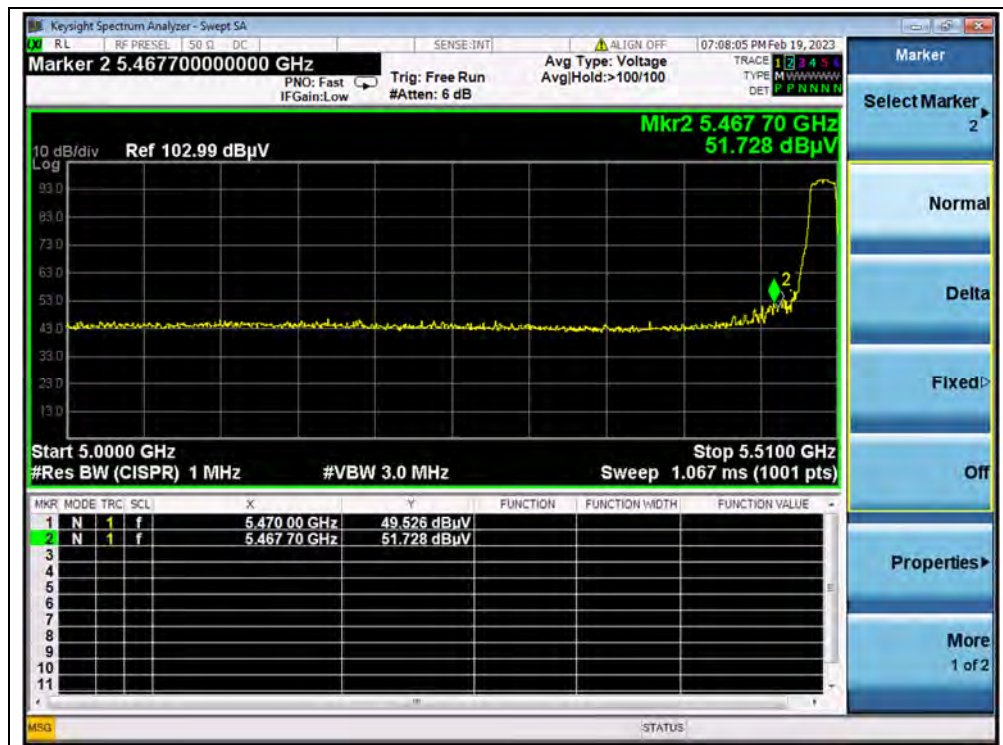
(AVERAGE, Channel 36, 802.11a)



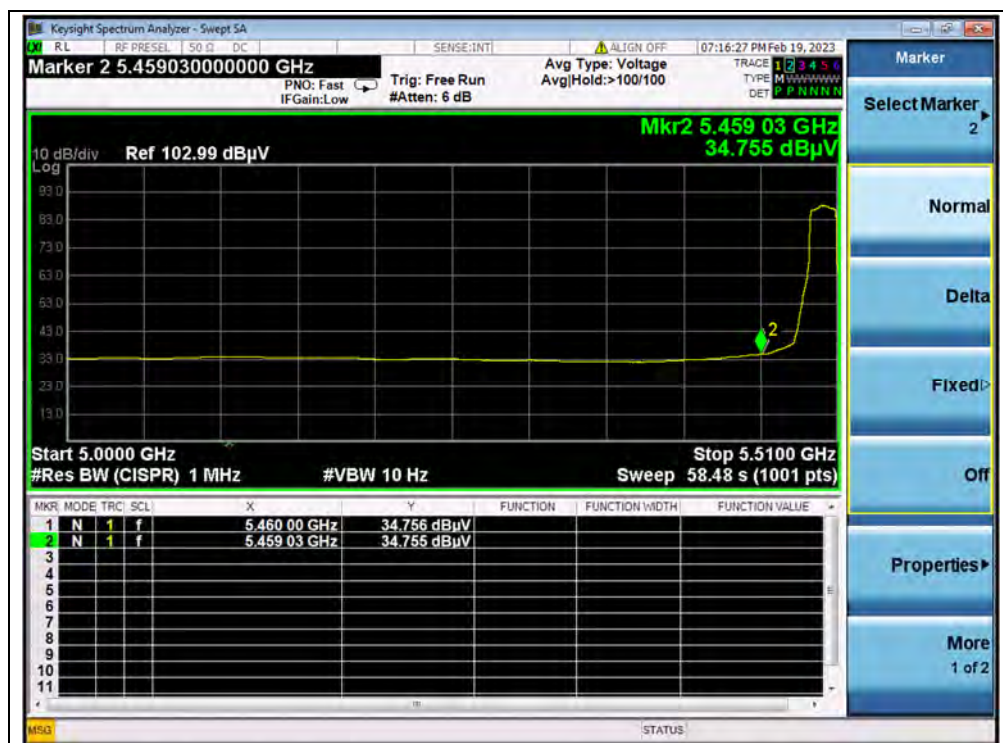
(PEAK, Channel 64, 802.11a)



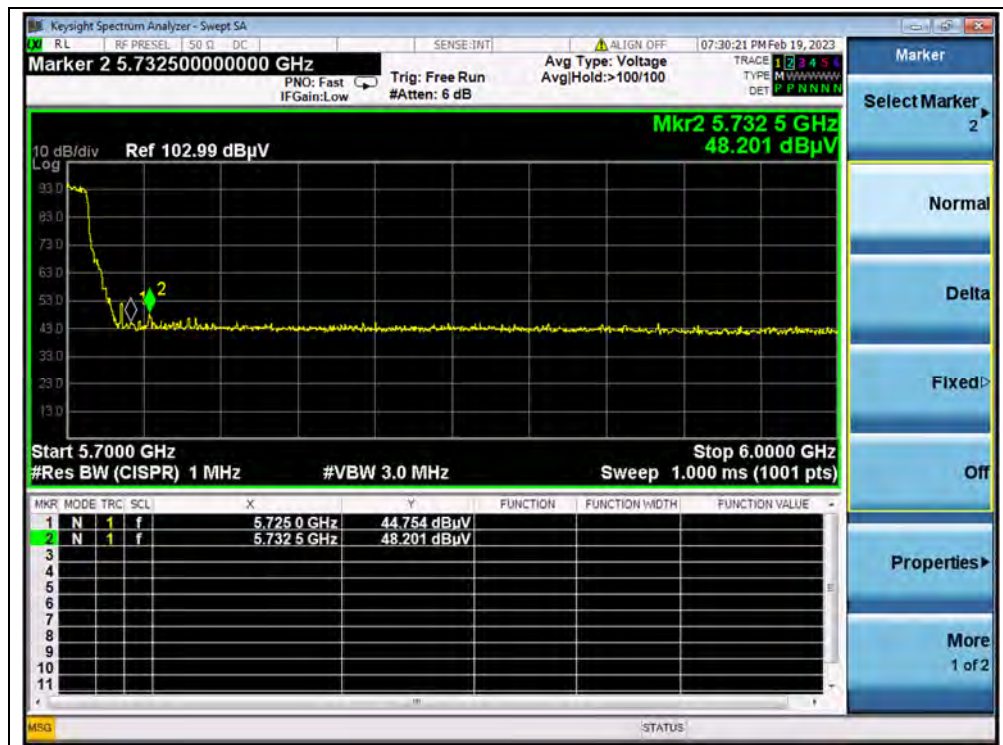
(AVERAGE, Channel 64, 802.11a)



(PEAK, Channel 100, 802.11a)



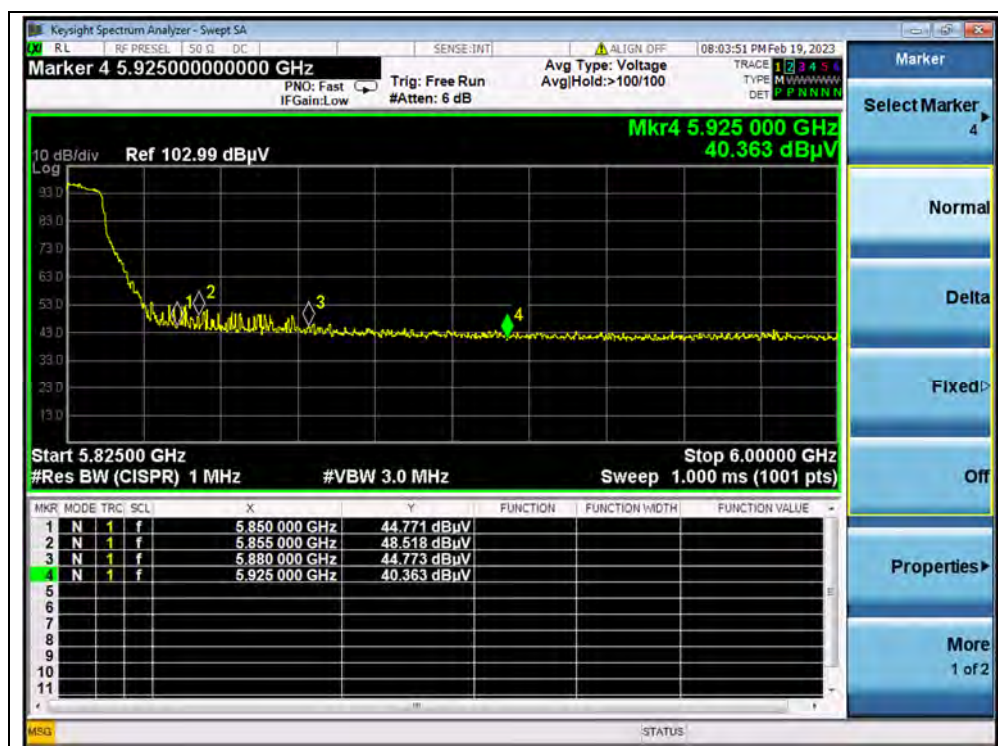
(AVERAGE, Channel 100, 802.11a)



(PEAK, Channel 144, 802.11a)



(PEAK, Channel 149, 802.11a)

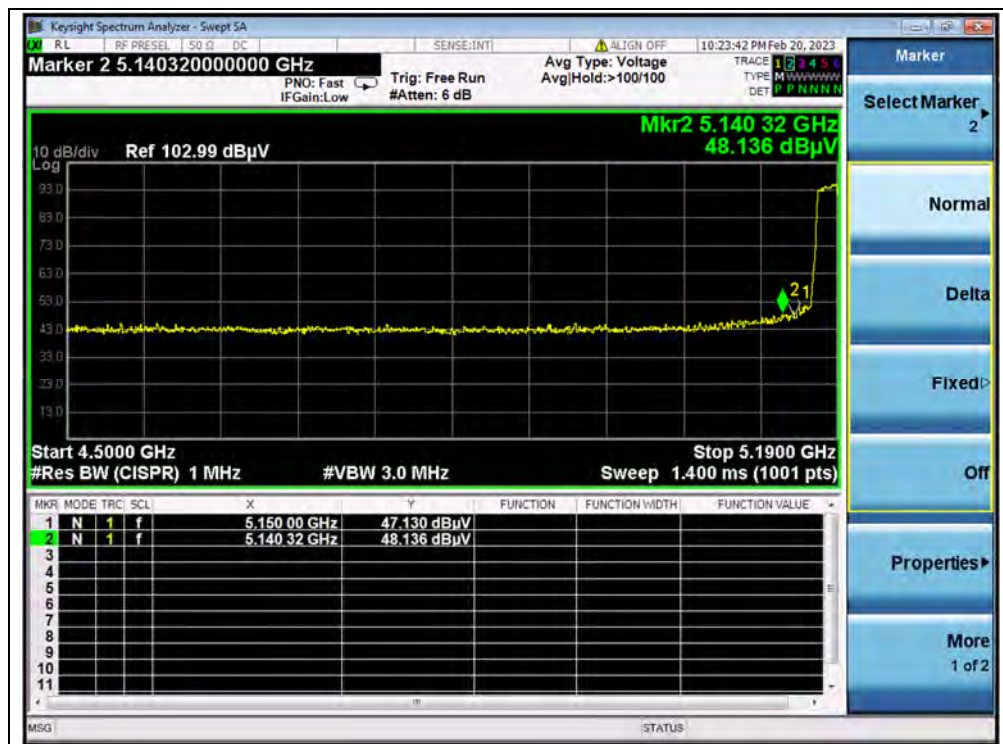


(PEAK, Channel 165, 802.11a)

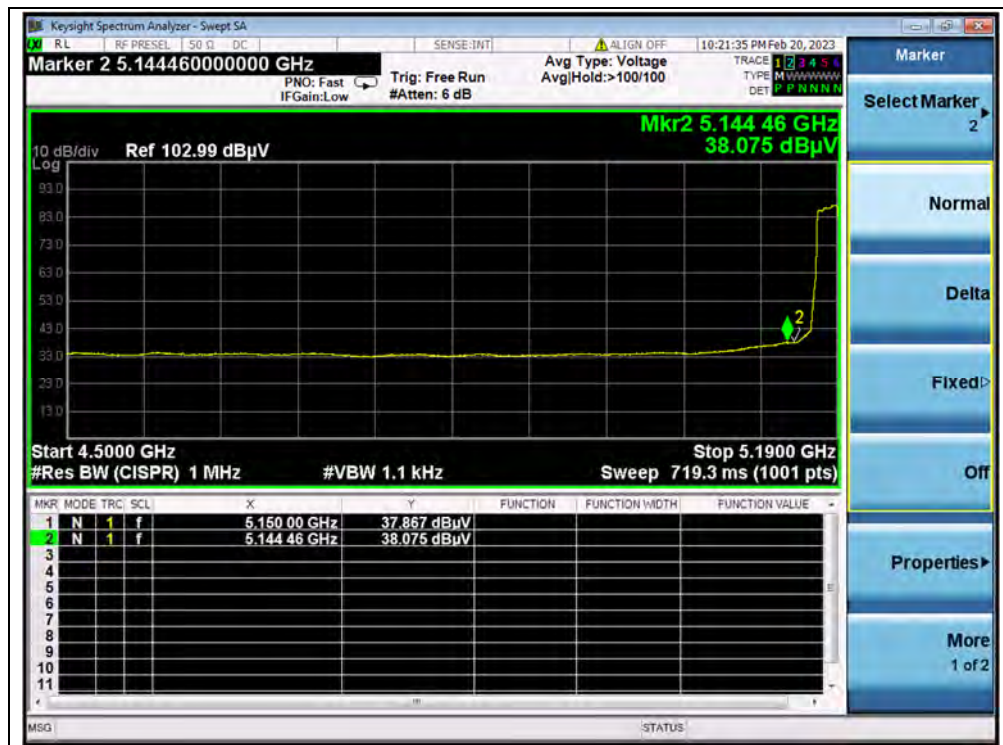


802.11n (HT40) Mode

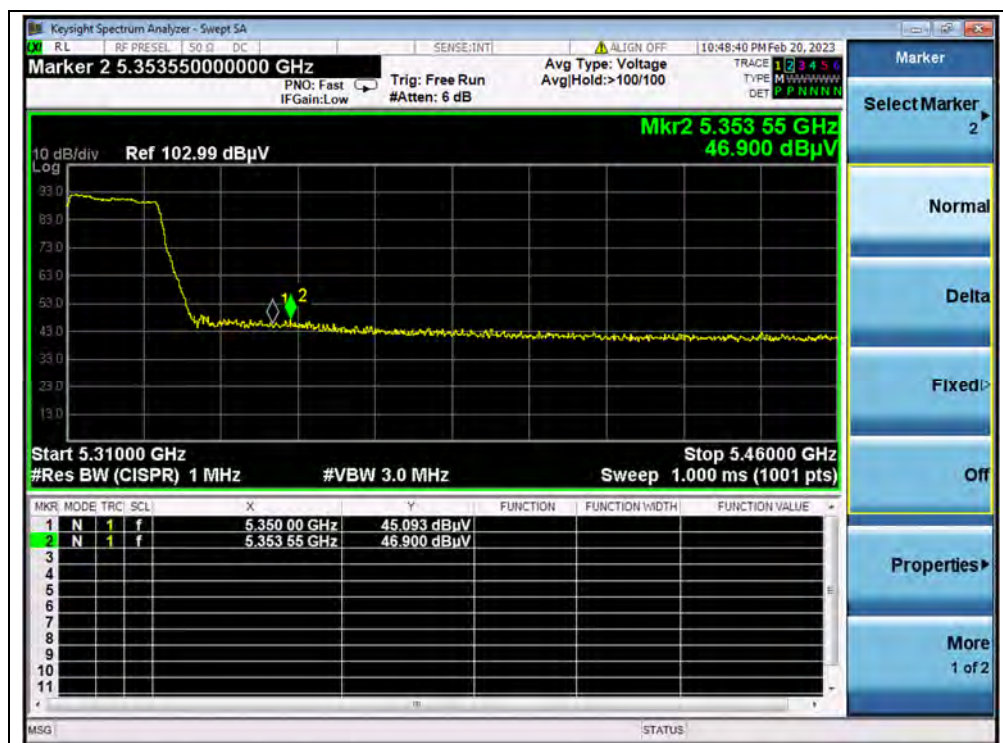
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
38	5140.32	PK	48.14	-19.54	32.20	60.80	74	PASS
38	5144.46	AV	38.08	-19.54	32.20	50.74	54	PASS
62	5353.55	PK	46.90	-18.80	32.20	60.30	74	PASS
62	5351.15	AV	37.07	-18.80	32.20	50.47	54	PASS
102	5469.32	PK	49.02	-19.20	32.20	62.02	68.23	PASS
102	5460.00	AV	37.29	-19.20	32.20	50.29	54	PASS
142	5729.73	PK	46.77	-19.20	32.20	59.77	68.23	PASS
151	5725.00	PK	53.35	-19.01	32.20	66.54	122.23	PASS
159	5855.00	PK	45.03	-19.01	32.20	58.22	110.83	PASS



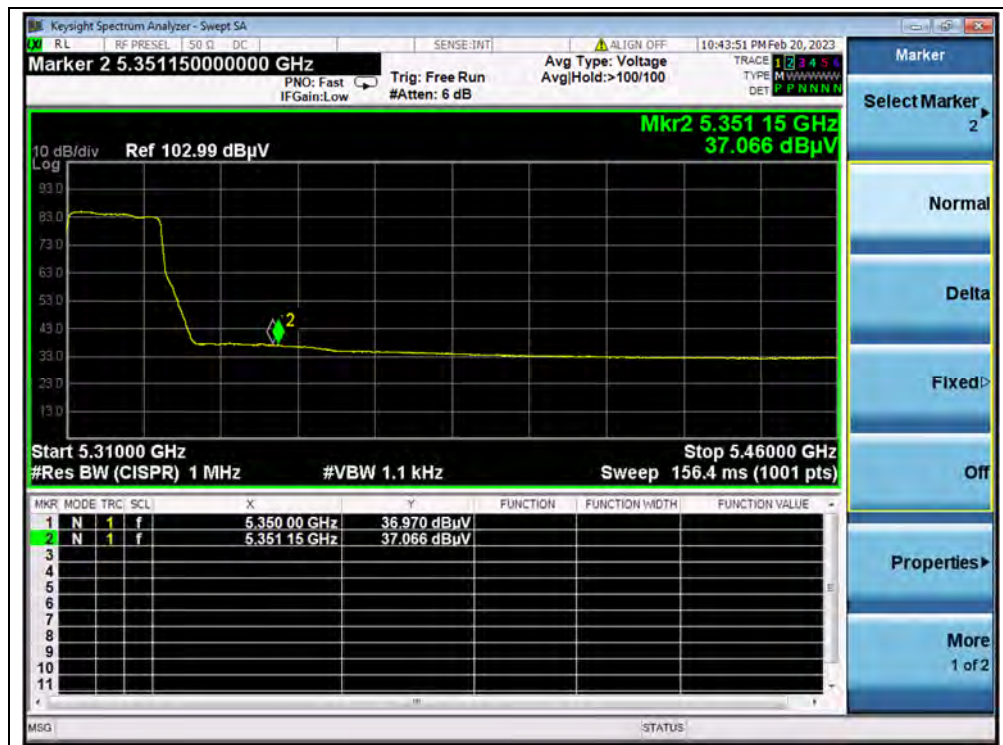
(PEAK, Channel 38, 802.11n (HT40))



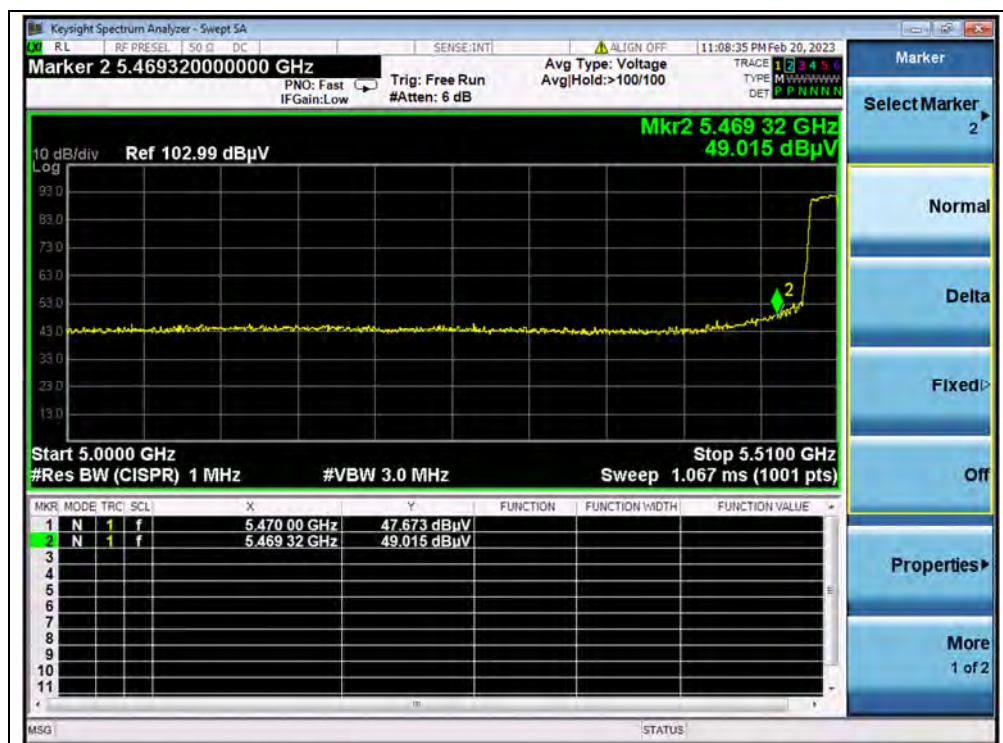
(AVERAGE, Channel 38, 802.11n (HT40))



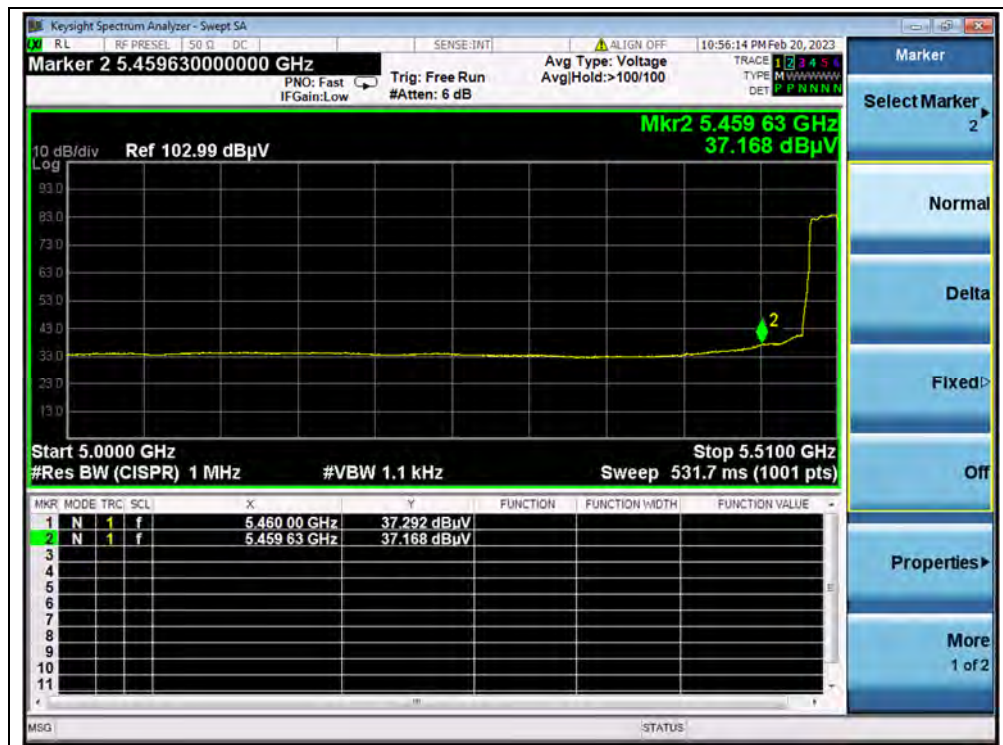
(PEAK, Channel 62, 802.11n (HT40))



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



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



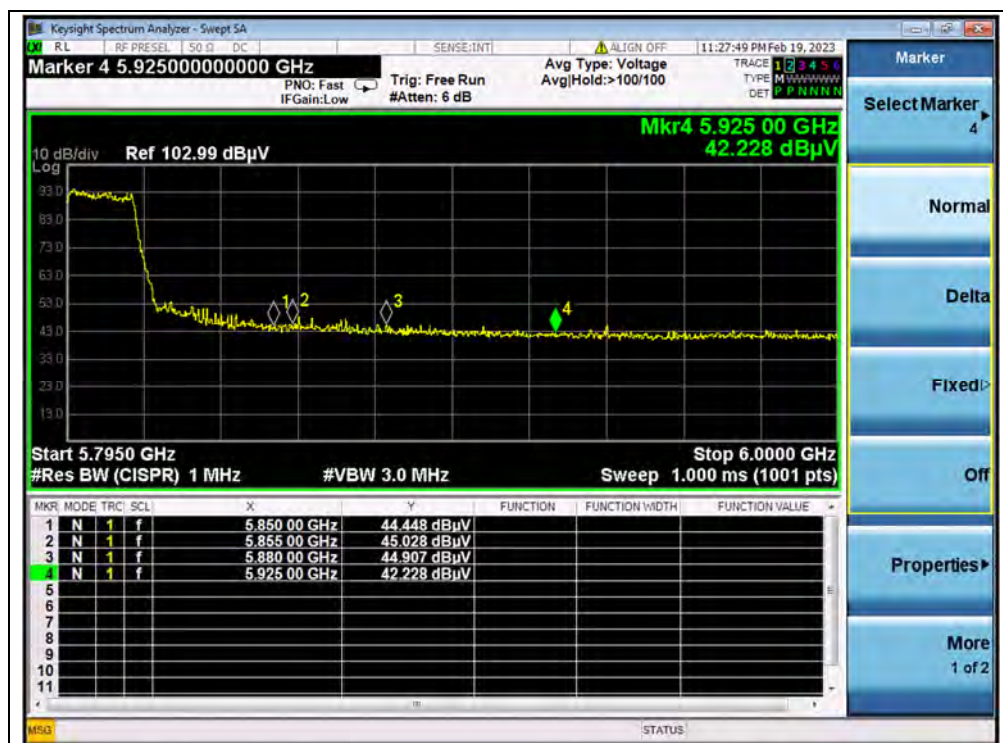
(AVERAGE, Channel 102, 802.11n (HT40))



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



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

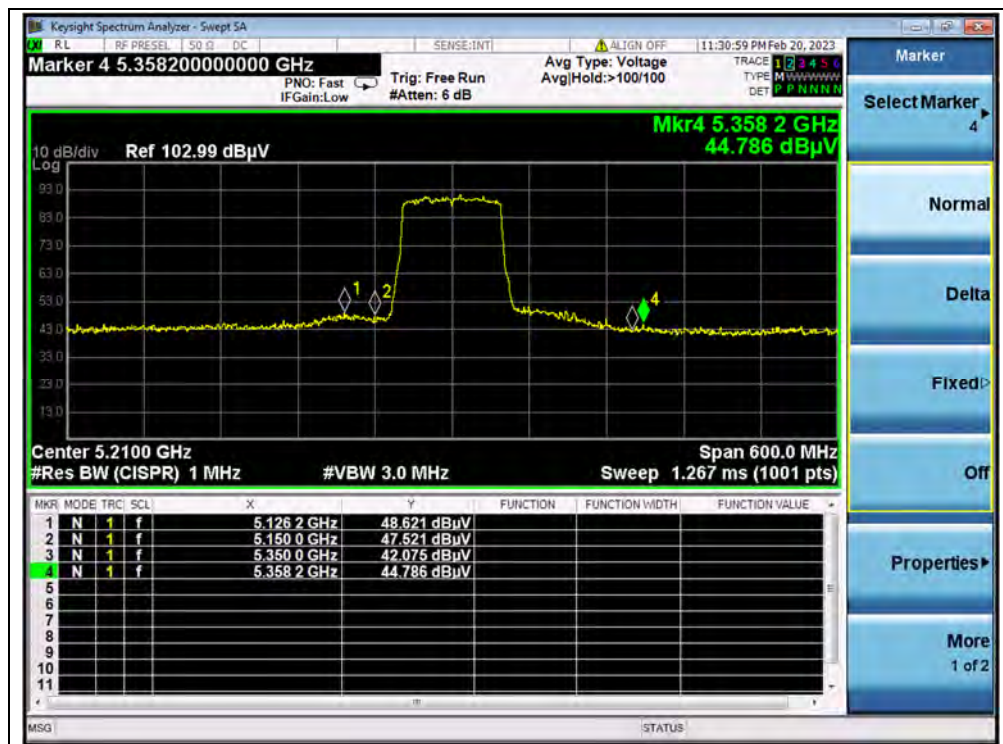


(PEAK, Channel 159, 802.11n (HT40))

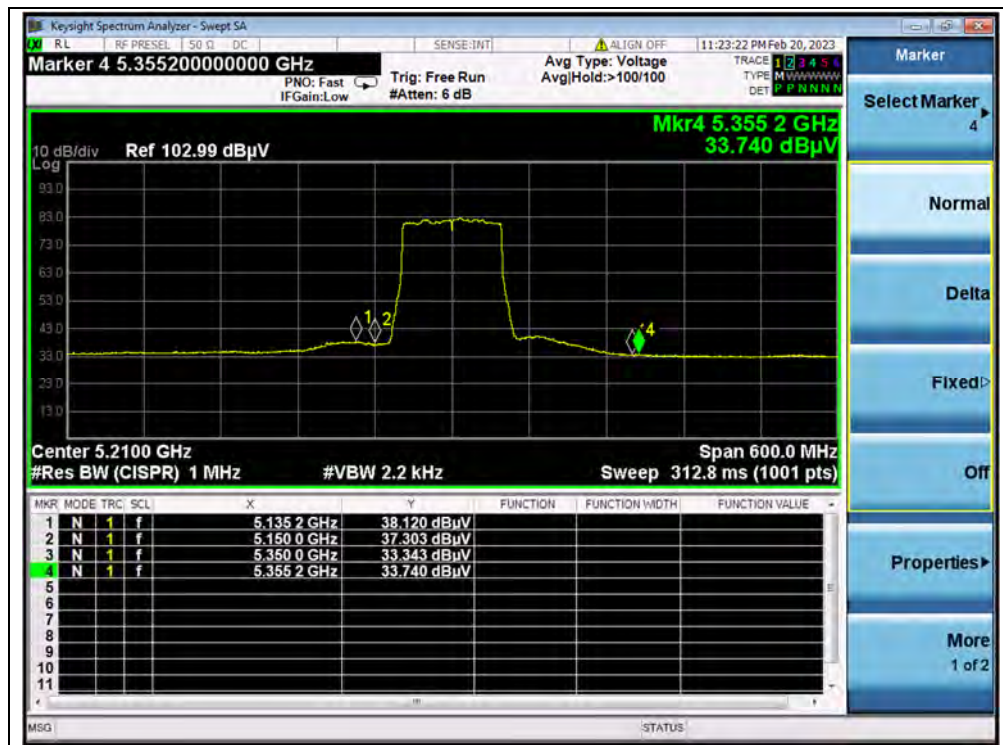


802.11ac (VHT80) Mode

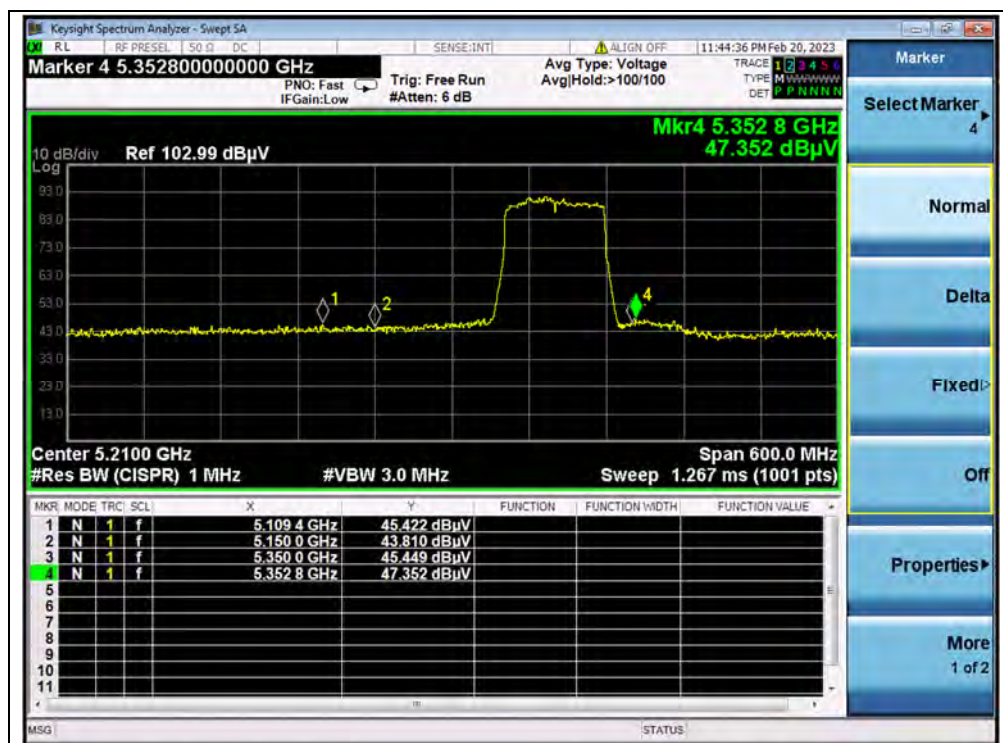
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBμV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
42	5126.20	PK	48.62	-19.54	32.20	61.28	74	PASS
42	5135.20	AV	38.12	-19.54	32.20	50.78	54	PASS
58	5352.80	PK	47.35	-18.80	32.20	60.75	74	PASS
58	5361.80	AV	37.43	-18.80	32.20	50.83	54	PASS
106	5434.03	PK	46.83	-19.20	32.20	59.83	74	PASS
106	5458.41	AV	37.43	-19.20	32.20	50.43	54	PASS
138	5755.26	PK	45.29	-19.20	32.20	58.29	68.23	PASS
155	5700.00	PK	49.37	-19.01	32.20	62.56	105.23	PASS
155	5880.00	PK	44.33	-19.01	32.20	57.52	101.53	PASS



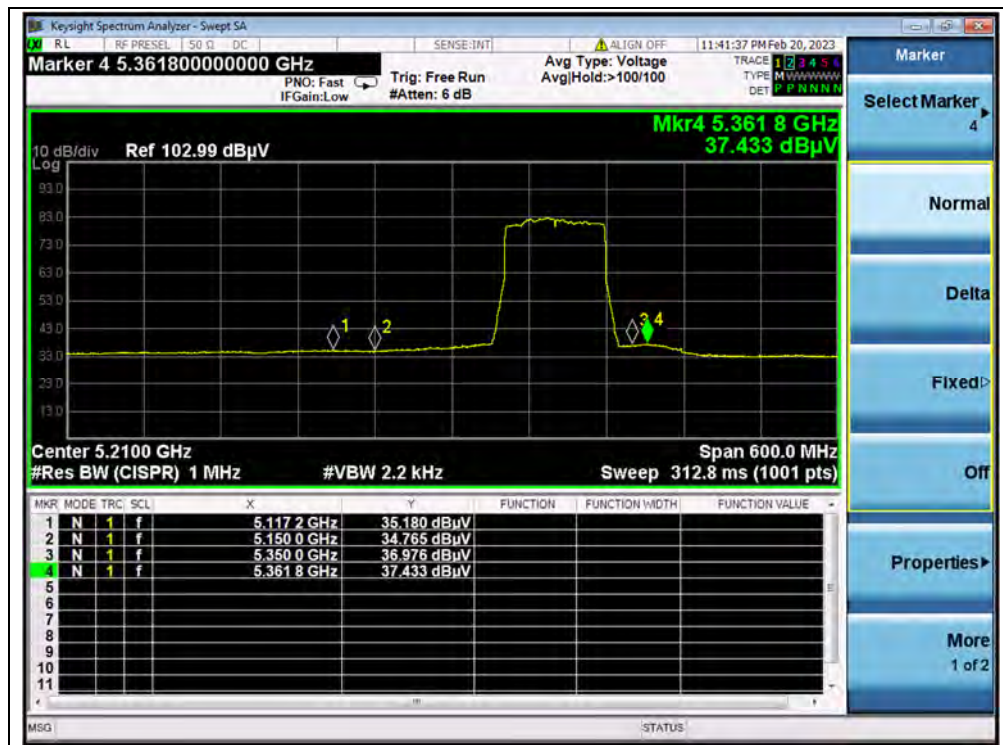
(PEAK, Channel 42, 802.11ac (VHT80))



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



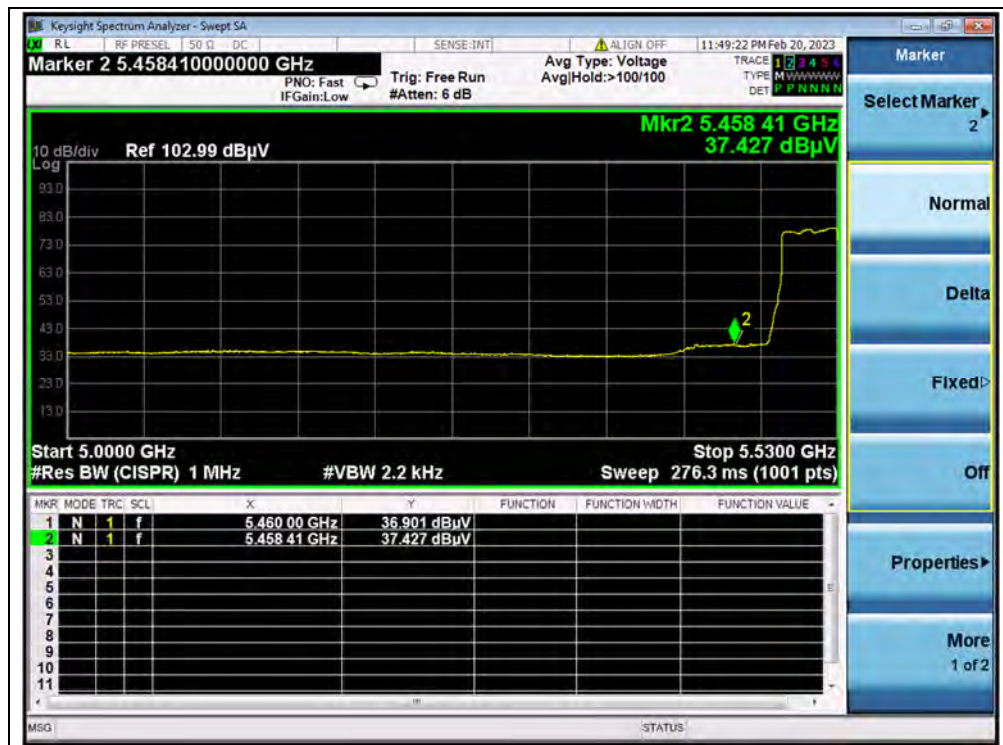
(PEAK, Channel 58, 802.11ac (VHT80))



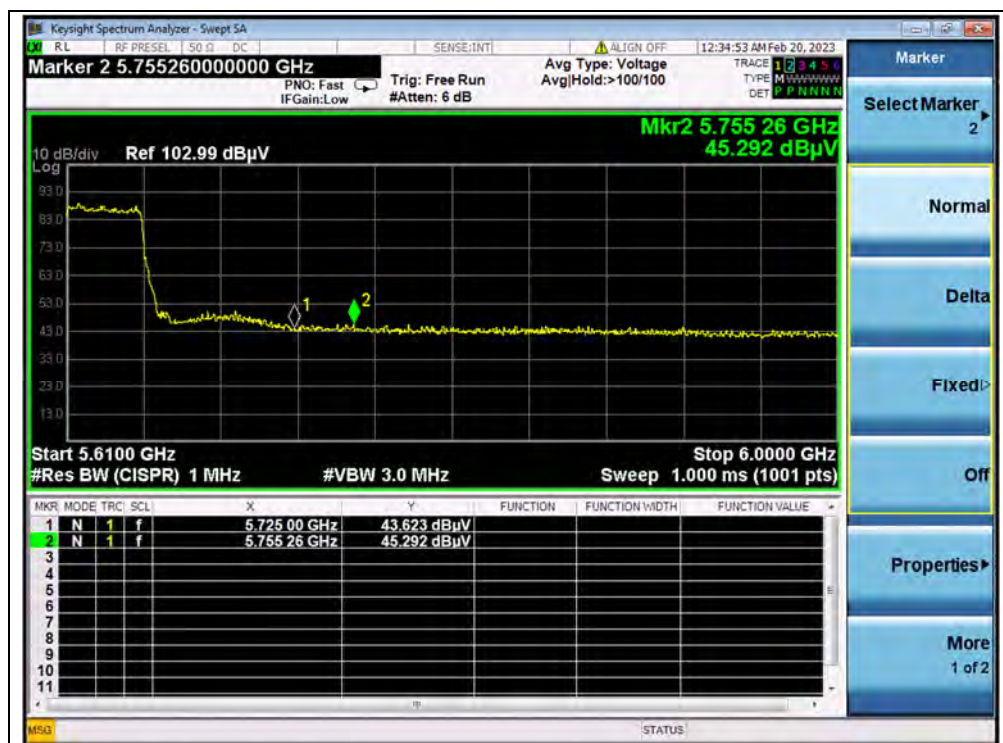
(AVERAGE, Channel 58, 802.11ac (VHT80))



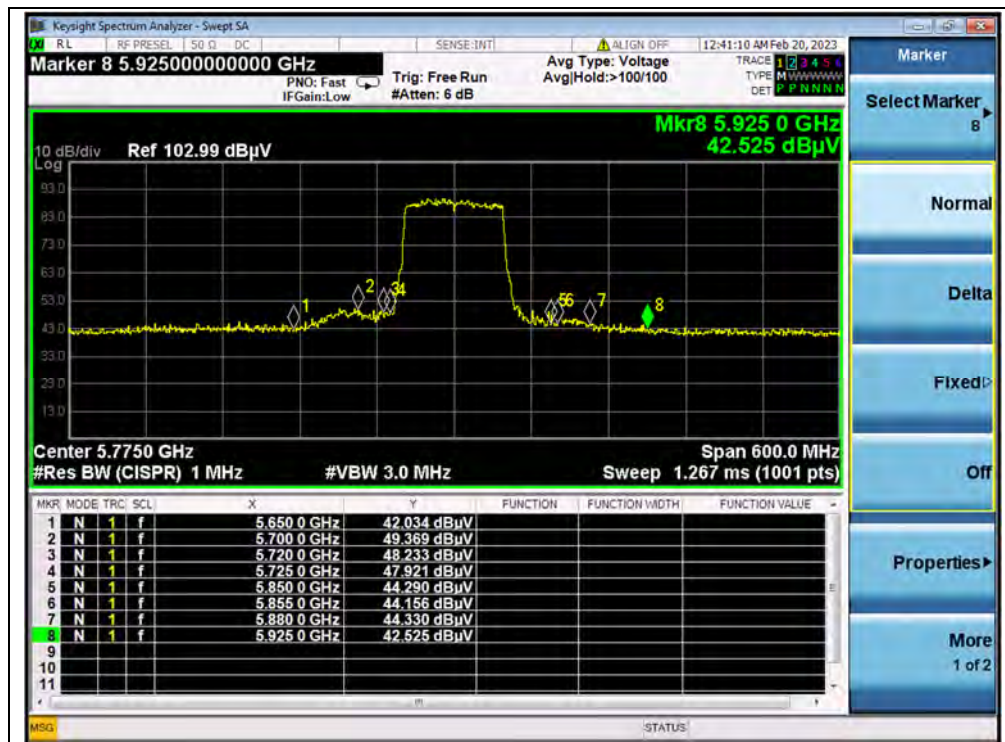
(PEAK, Channel 106, 802.11ac (VHT80))



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



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



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



A.9. Radiated Emission

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.

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 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

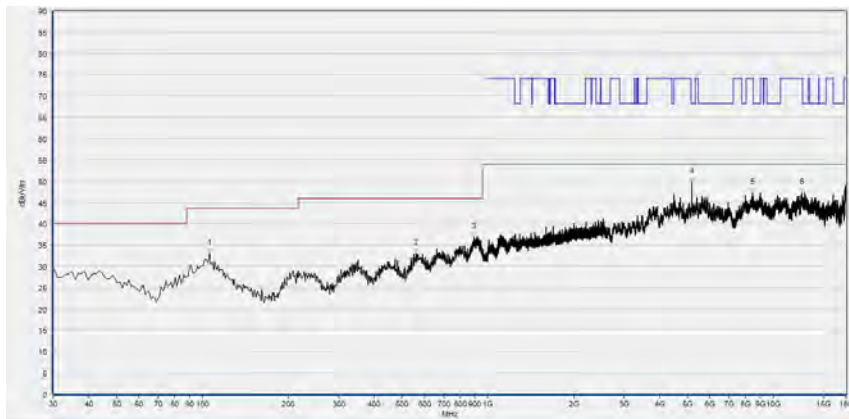
Note3: For the frequency, which started from 18GHz to 10th harmonic of the highest frequency, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

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.



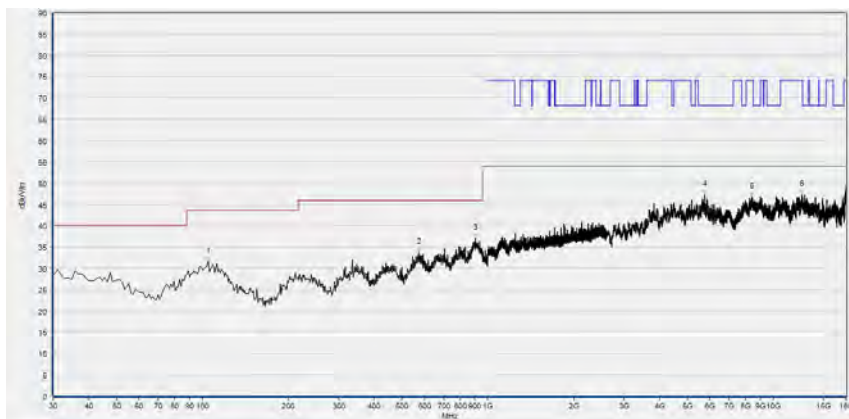
802.11a Mode

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
105.736	32.95	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
562.092	33.10	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
896.106	36.82	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5181.556	49.82	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8447.009	47.28	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12599.680	47.20	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

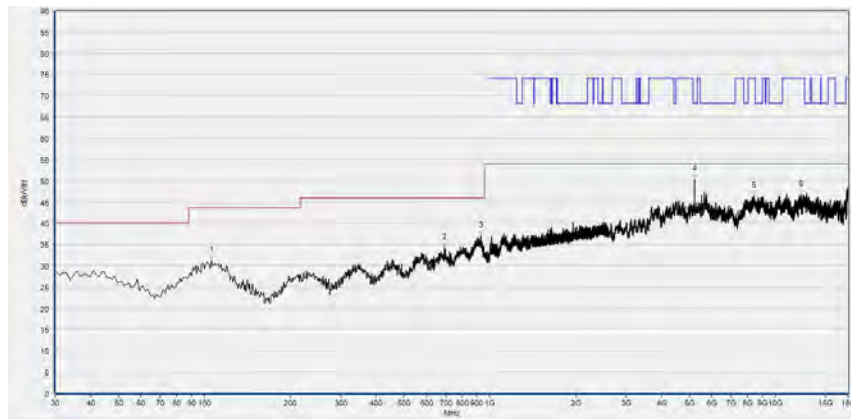


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
104.765	31.45	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
572.773	33.75	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
902.903	37.01	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5751.470	47.25	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8413.123	46.75	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12581.196	47.23	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

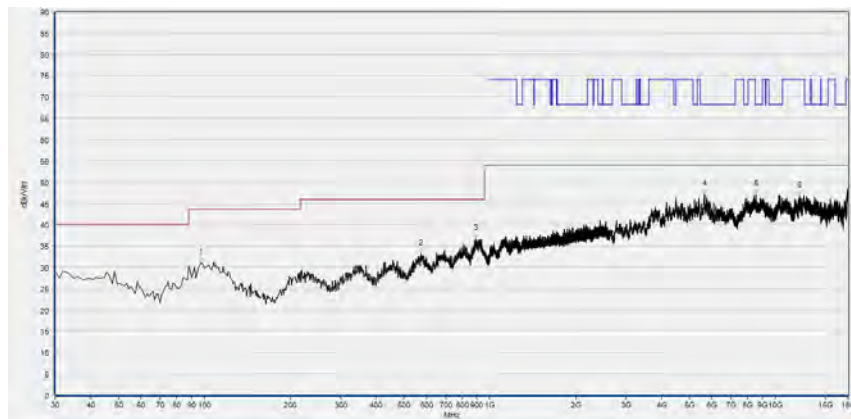


Plot for Channel 44



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
105.736	31.23	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
694.144	34.21	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
930.090	36.97	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5215.443	50.24	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8394.639	46.35	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12300.860	46.78	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

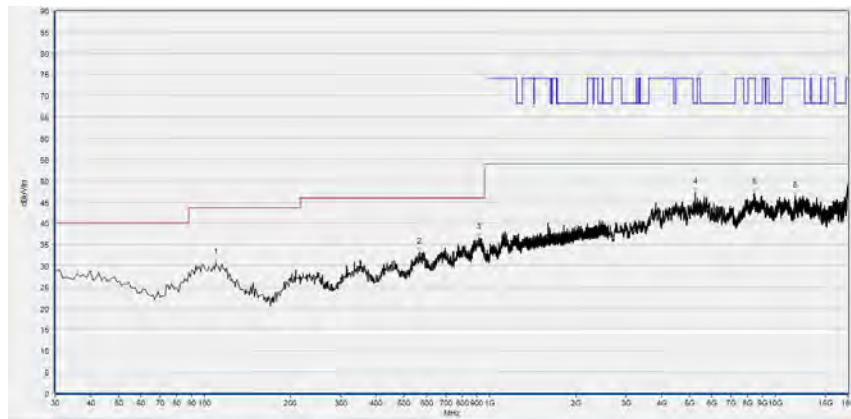


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
96.997	30.92	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
573.744	33.24	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
896.106	36.68	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5649.810	47.03	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8576.395	47.04	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12180.716	46.79	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

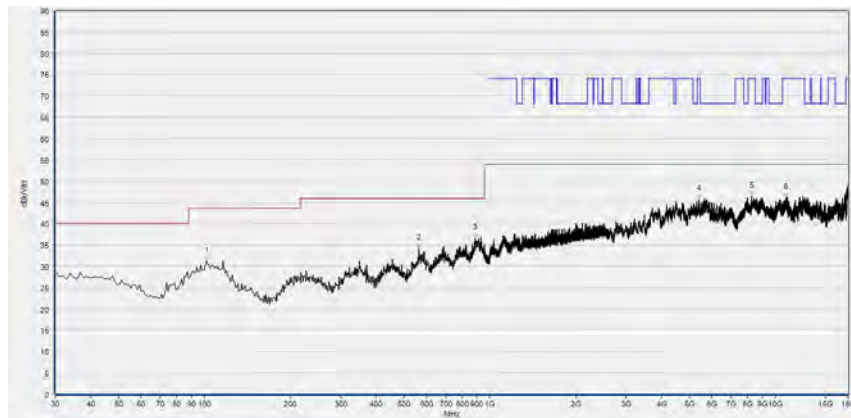


Plot for Channel 48



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
109.620	30.74	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
566.947	33.21	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
912.613	36.48	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5240.088	47.18	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8453.171	47.02	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11737.107	46.37	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

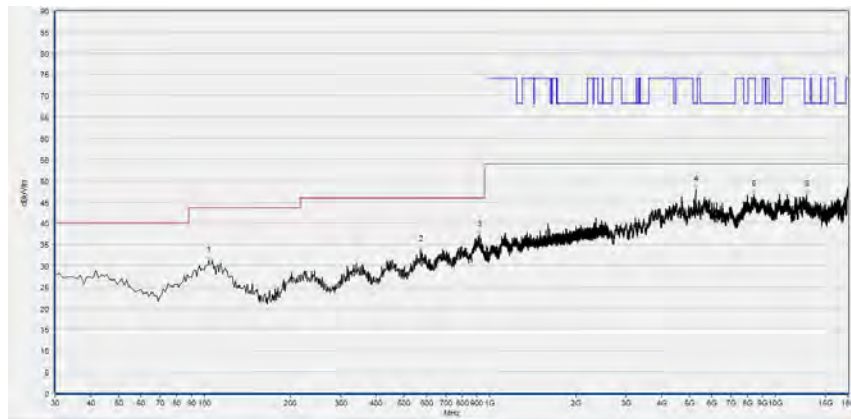
(Antenna Horizontal, 30MHz to 18GHz)



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	31.12	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
565.005	34.12	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
888.338	36.60	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5391.038	45.78	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8246.769	46.39	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10911.502	46.17	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

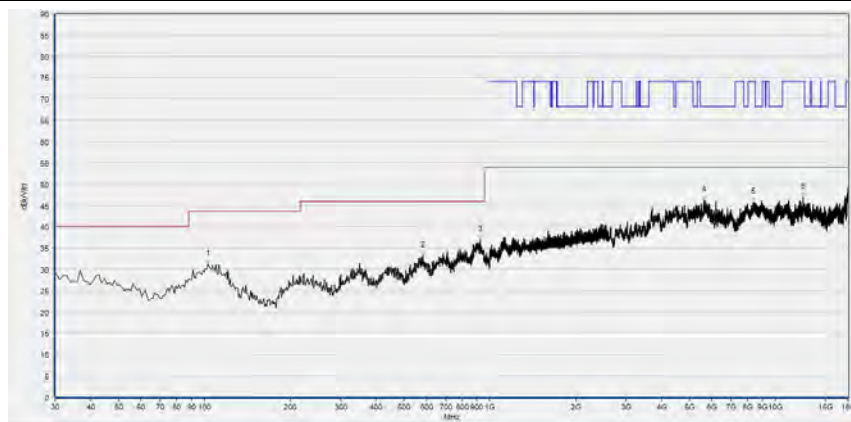
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 52



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
103.794	31.19	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
572.773	33.63	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
919.409	37.22	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5261.652	47.90	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8410.042	46.70	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12898.500	46.81	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

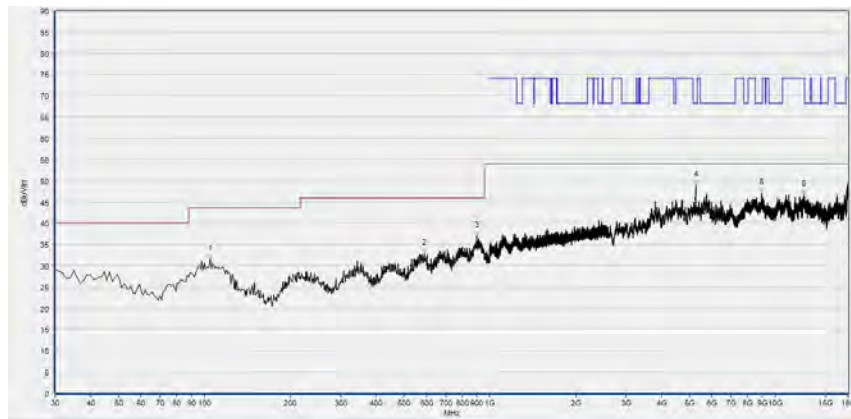
(Antenna Horizontal, 30MHz to 18GHz)



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	31.15	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
582.482	33.21	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
923.293	36.83	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5634.407	46.27	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8385.397	45.68	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12510.342	46.92	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

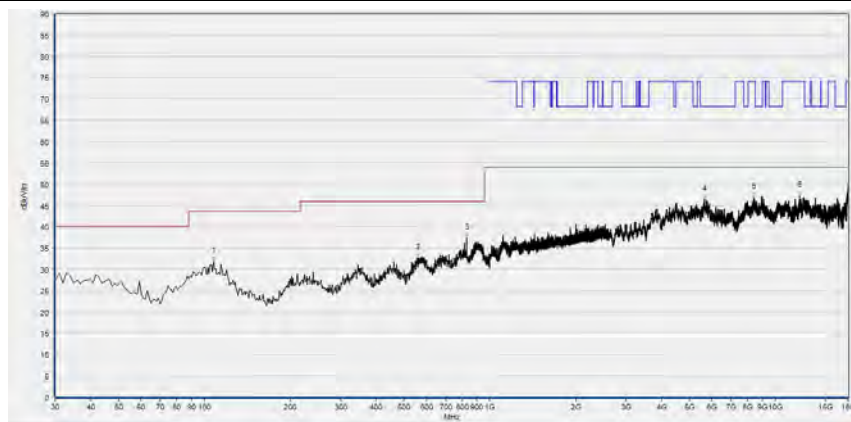
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 60



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
104.765	31.59	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
589.279	32.87	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
900.961	36.99	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5261.652	48.93	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8936.827	47.07	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12559.632	46.82	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

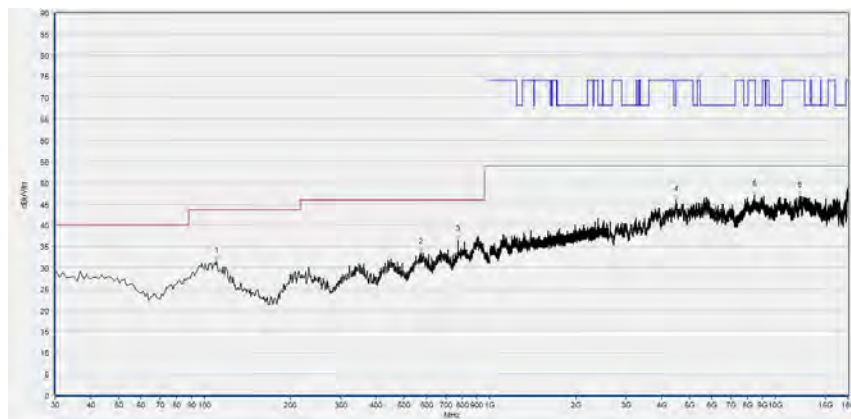


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
107.678	31.80	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
561.121	32.72	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
828.138	37.41	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5640.568	46.48	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8428.526	46.88	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12156.071	47.28	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

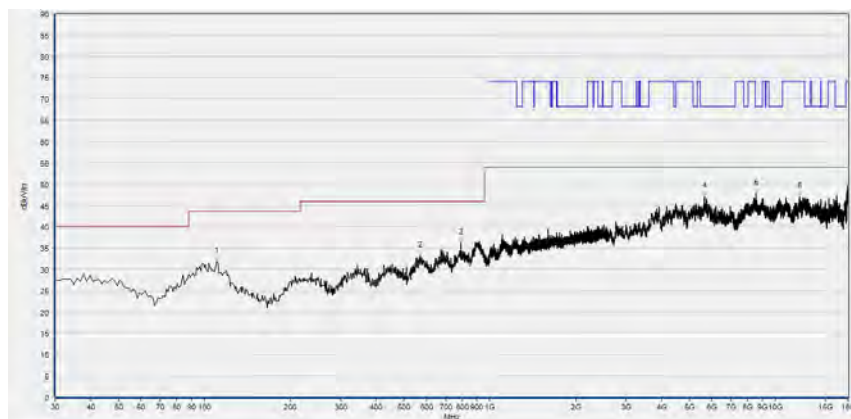


Plot for Channel 64



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
110.591	31.42	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
573.744	33.55	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
773.764	36.56	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
4500.740	45.92	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8456.251	47.03	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12159.152	46.99	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

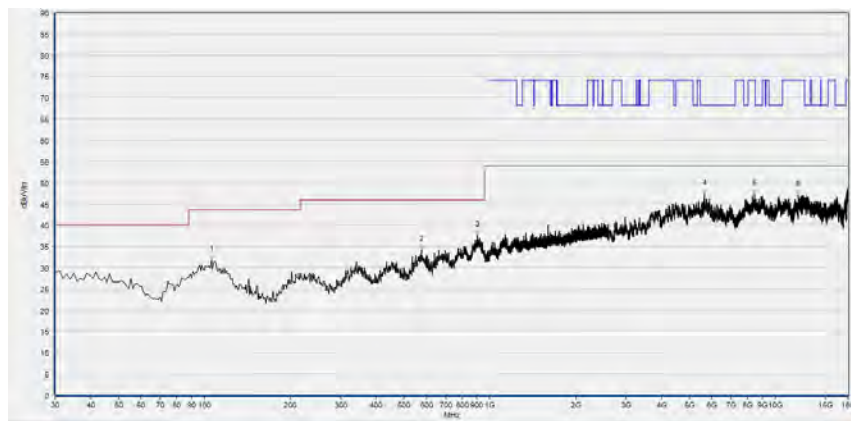


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
110.591	31.82	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
571.802	33.18	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
791.241	36.21	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5649.810	47.14	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8564.073	47.71	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12149.910	47.14	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

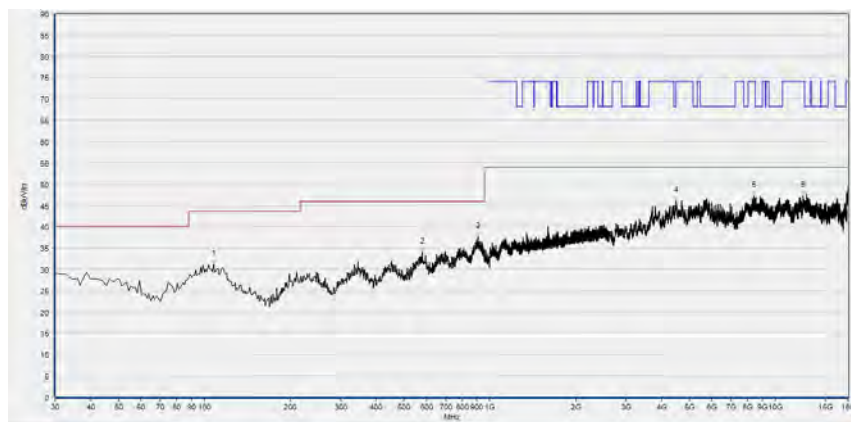


Plot for Channel 100



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
105.736	31.78	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
575.686	34.17	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
905.816	37.65	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5637.487	47.39	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8440.848	47.36	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12057.491	47.13	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

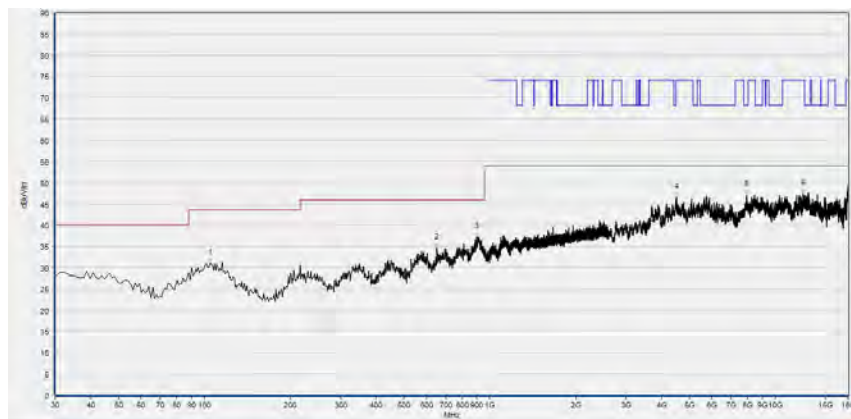
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
107.678	31.20	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
578.599	34.05	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
908.729	37.73	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
4500.740	46.09	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8422.364	47.25	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12534.987	47.25	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

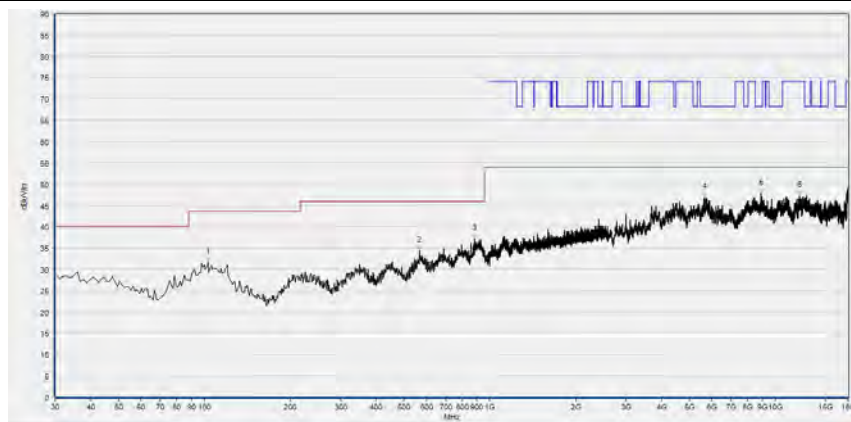
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 120



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
104.765	30.98	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
652.392	34.72	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
898.048	37.27	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
4506.901	46.64	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7926.385	47.14	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12547.309	47.43	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

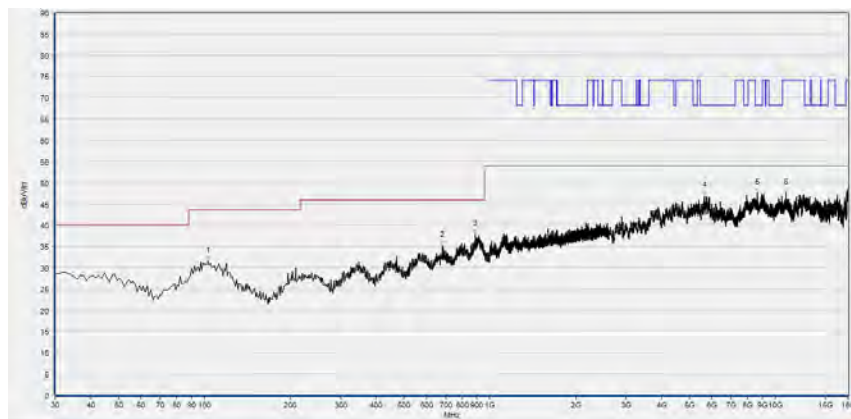


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
102.823	31.69	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
566.947	34.37	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
885.425	37.21	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5643.649	46.95	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8899.860	47.74	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12189.958	47.21	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

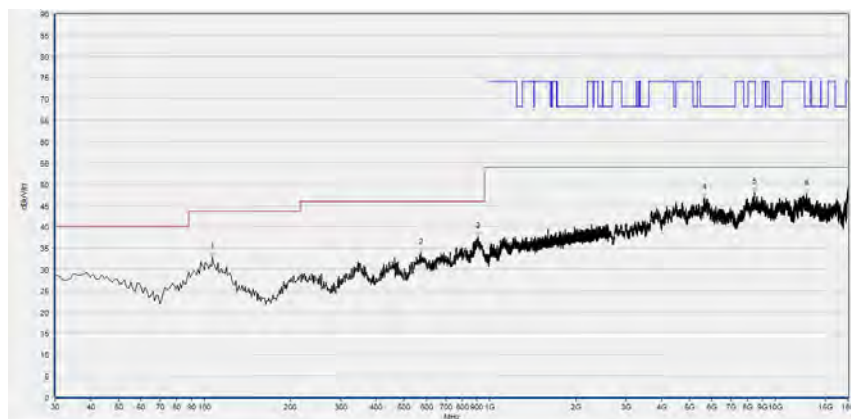


Plot for Channel 144



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
102.823	31.57	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
681.522	35.28	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
891.251	37.90	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5655.971	46.84	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8634.927	47.52	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10914.583	47.60	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

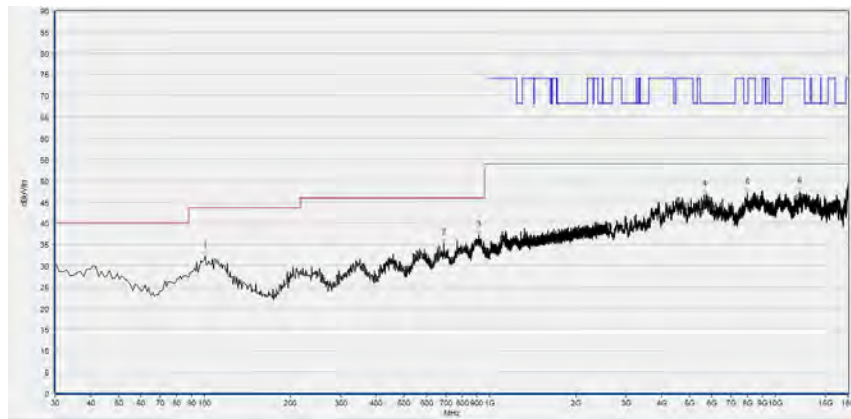
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
106.707	32.78	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
573.744	33.87	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
910.671	37.67	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5643.649	46.77	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8465.493	48.11	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12849.210	47.76	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

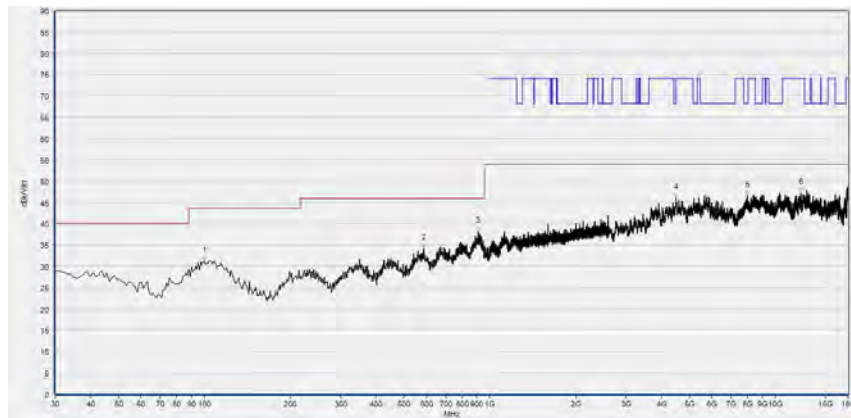
(Antenna Vertical, 30MHz to 18GHz)

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
100.881	32.11	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
689.289	35.41	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
916.496	37.14	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5652.891	46.80	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
7975.675	47.13	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12165.313	47.37	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

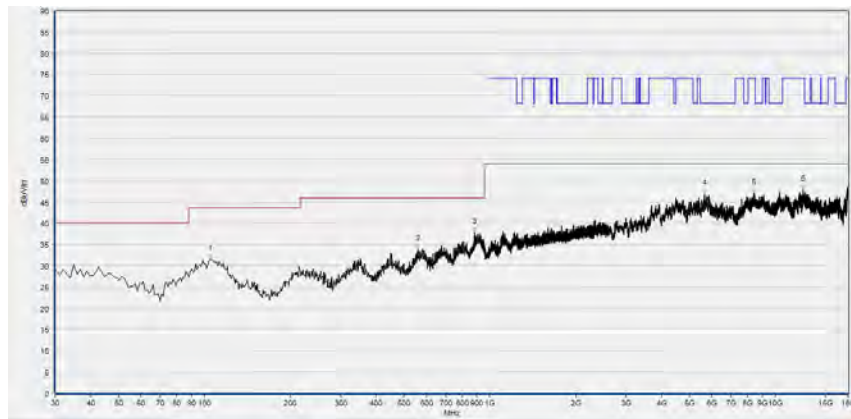
(Antenna Horizontal, 30MHz to 18GHz)



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	31.13	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
588.308	34.25	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
908.729	38.13	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
4485.337	46.05	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
7966.433	46.64	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12282.376	47.19	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

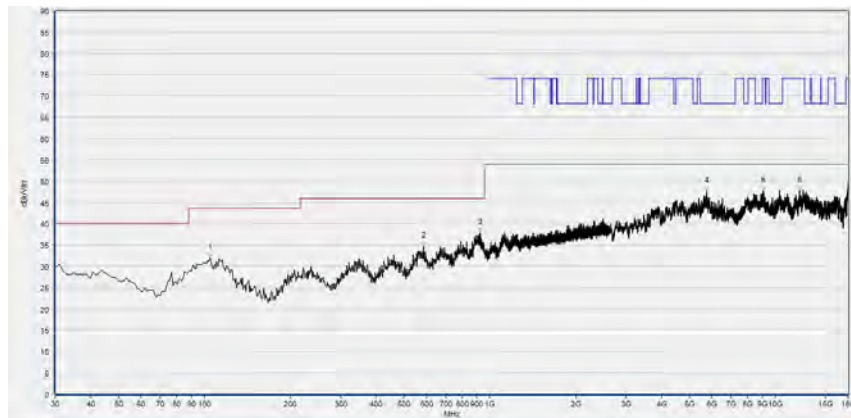
(Antenna Vertical, 30MHz to 18GHz)

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
104.765	31.47	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
560.150	33.81	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
885.425	37.83	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5643.649	47.00	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8434.687	47.08	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12513.423	47.93	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

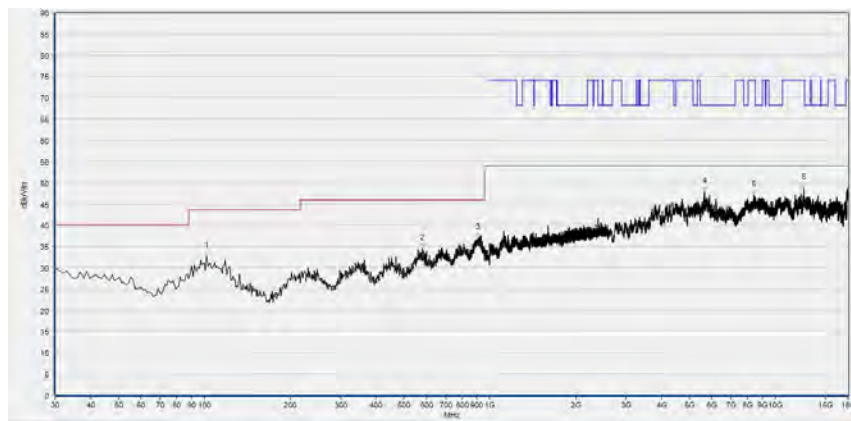
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
104.765	31.95	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
585.395	34.66	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
925.235	37.86	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5745.309	47.62	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
9050.810	47.69	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12143.749	47.84	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

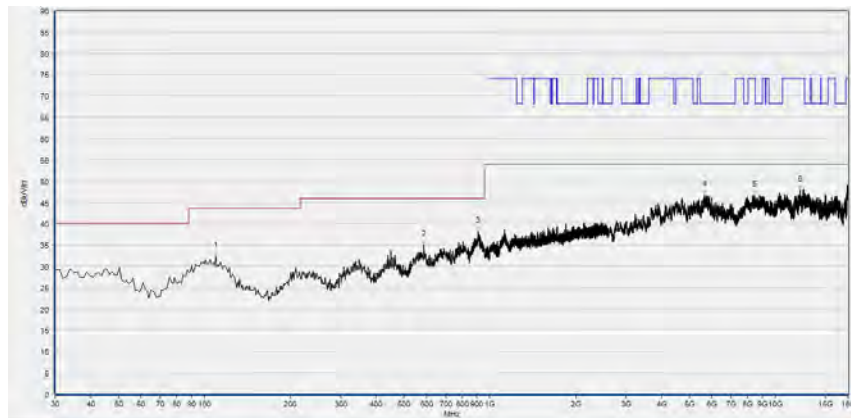
(Antenna Vertical, 30MHz to 18GHz)

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
101.852	32.70	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
579.570	34.53	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
908.729	37.00	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5637.487	47.87	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8394.639	47.16	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12602.761	48.70	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

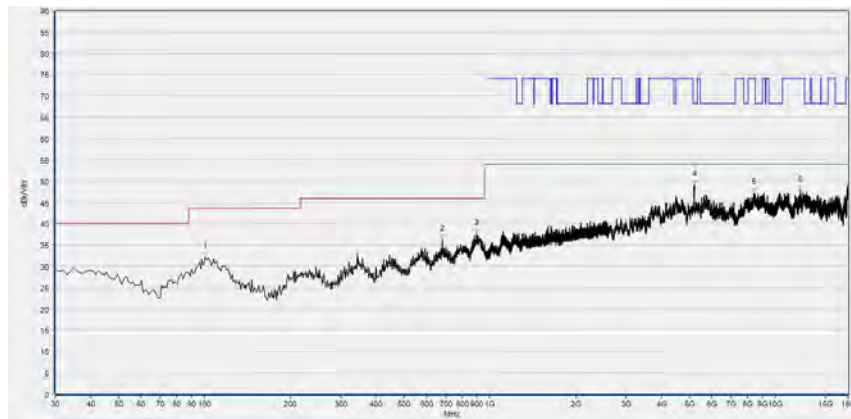


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
109.620	32.28	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
586.366	35.05	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
911.642	38.25	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5652.891	46.71	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8450.090	46.71	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12202.280	47.86	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

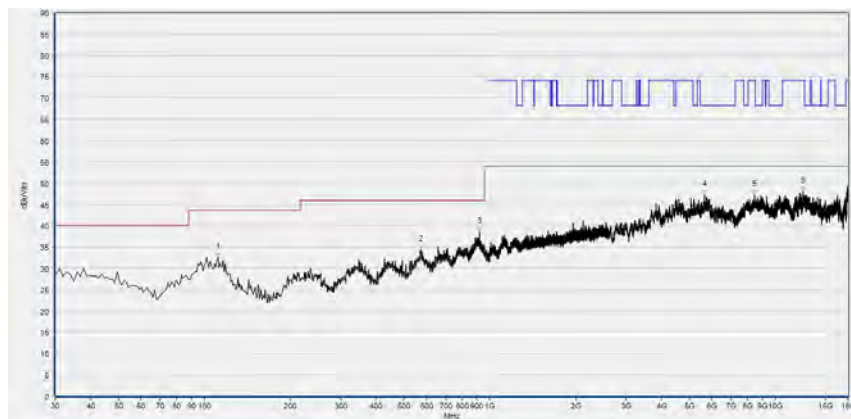
**802.11n (HT40) mode**

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
100.881	32.15	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
682.492	36.45	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
897.077	37.64	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5203.121	49.06	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8410.042	47.29	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12205.361	47.96	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

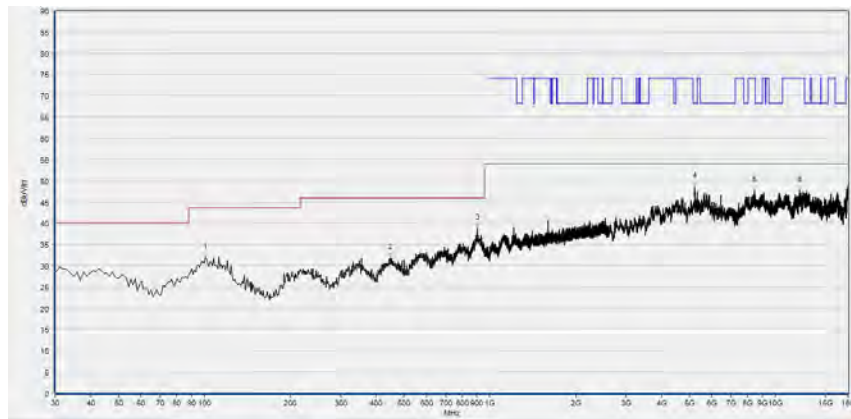
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
111.562	32.53	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
573.744	34.34	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
918.438	38.56	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5652.891	47.31	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8453.171	47.27	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12516.503	48.09	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

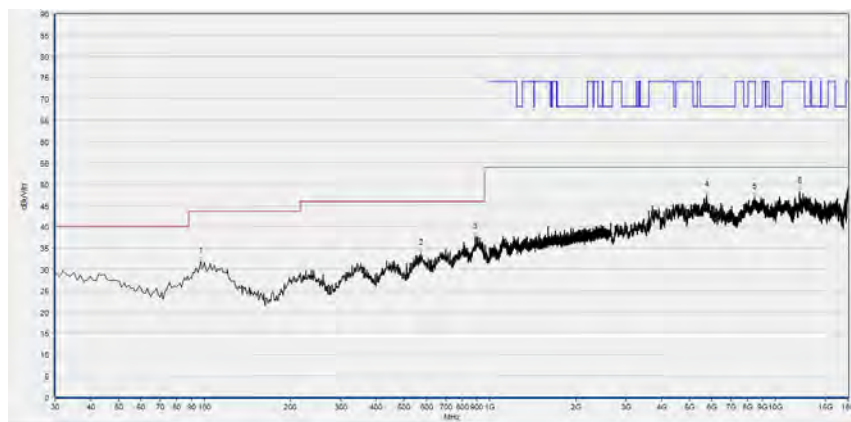
(Antenna Vertical, 30MHz to 18GHz)

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
100.881	32.02	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
447.518	31.89	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
902.903	38.95	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5227.766	48.66	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8471.654	47.76	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12193.039	47.82	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

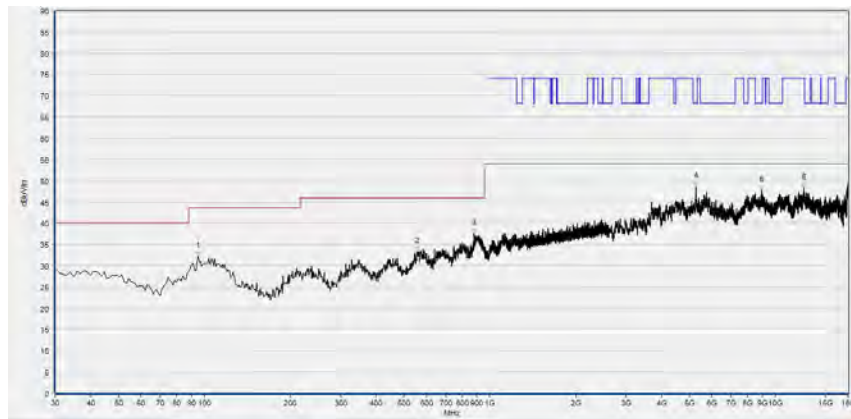


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
96.997	31.81	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
572.773	33.76	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
888.338	37.48	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5748.390	47.36	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8453.171	46.87	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12162.232	48.31	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

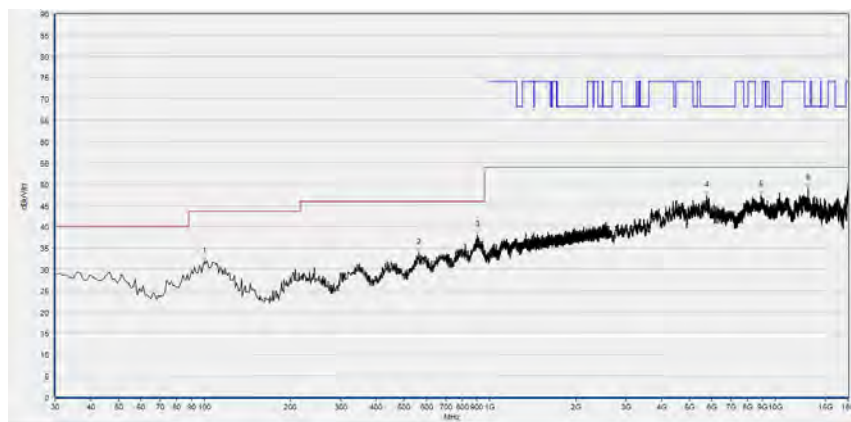


Plot for Channel 54



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
95.055	32.23	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
557.237	33.27	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
880.571	37.48	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5273.975	48.60	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8970.714	47.70	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12599.680	48.20	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

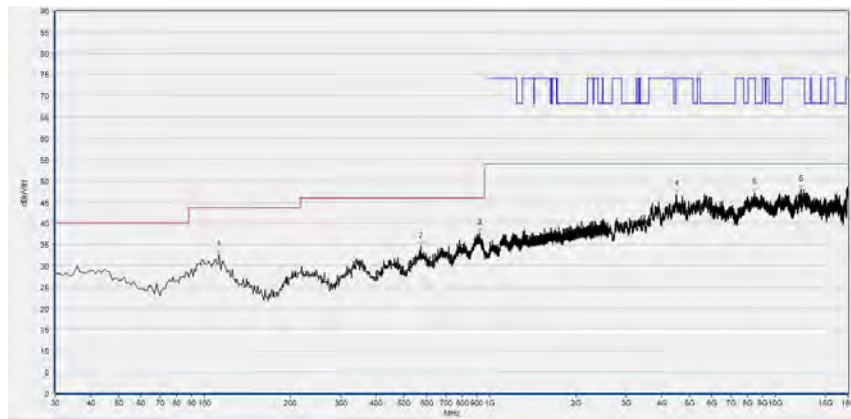
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
99.910	31.79	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
564.034	33.90	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
901.932	38.00	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5742.228	47.32	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8896.779	47.39	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
13064.853	48.94	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

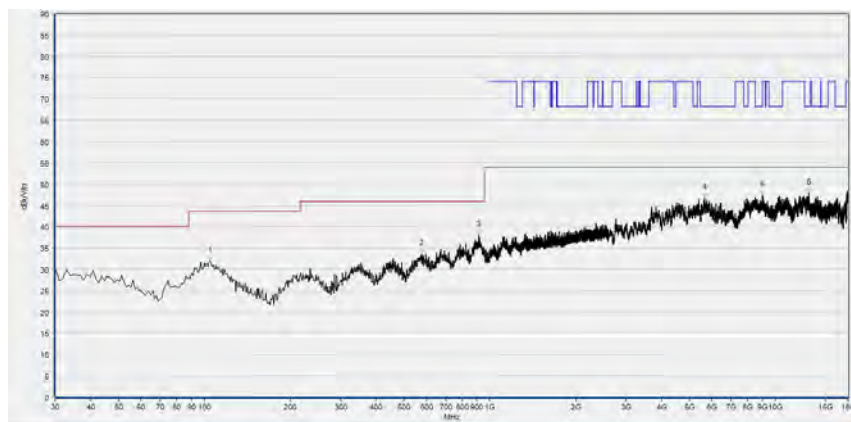
(Antenna Vertical, 30MHz to 18GHz)

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
112.533	32.58	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
572.773	34.48	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
920.380	37.68	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
4516.143	46.77	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8453.171	47.04	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12294.699	47.99	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

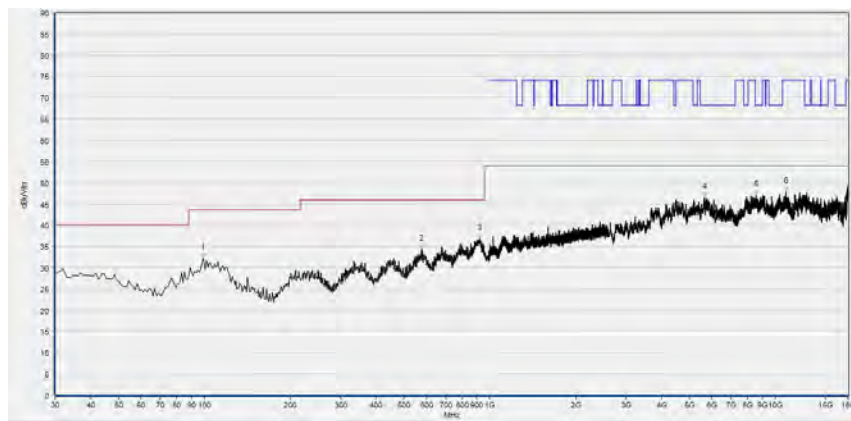


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
104.765	31.97	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
576.657	33.50	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
915.526	38.06	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5655.971	46.68	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
9035.407	47.47	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13148.030	47.97	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

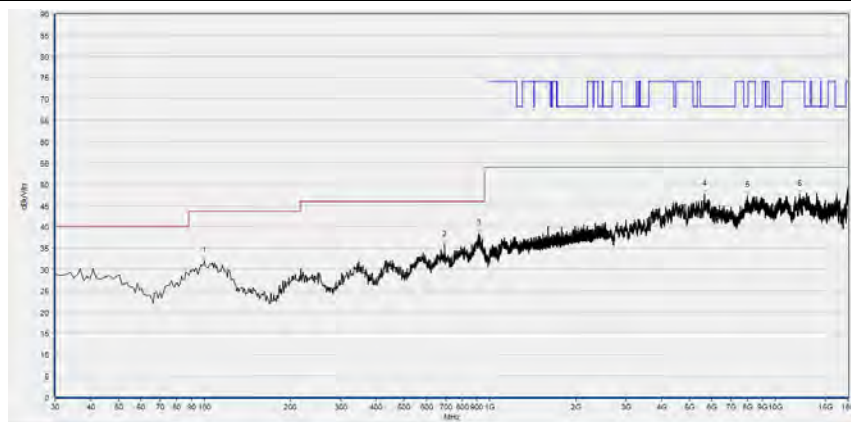


Plot for Channel 102



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
98.939	32.25	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
575.686	34.28	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
922.322	36.94	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5665.213	46.51	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8582.557	47.17	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10874.535	47.92	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

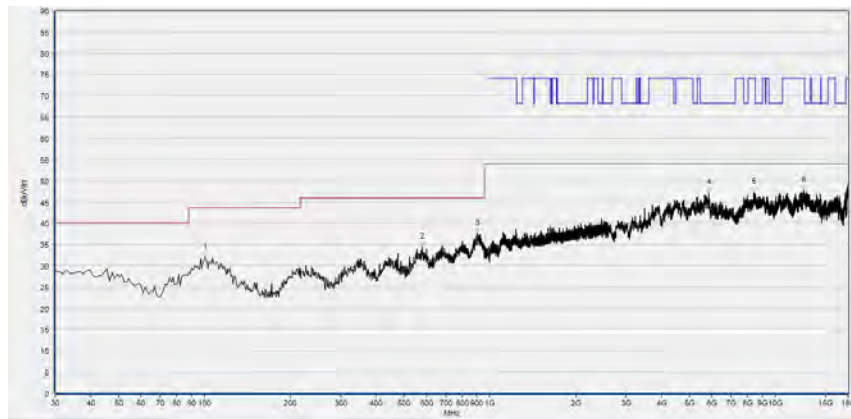
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
99.910	32.03	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
695.115	35.72	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
915.526	38.39	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5659.052	47.63	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
7987.998	47.30	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12165.313	47.64	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

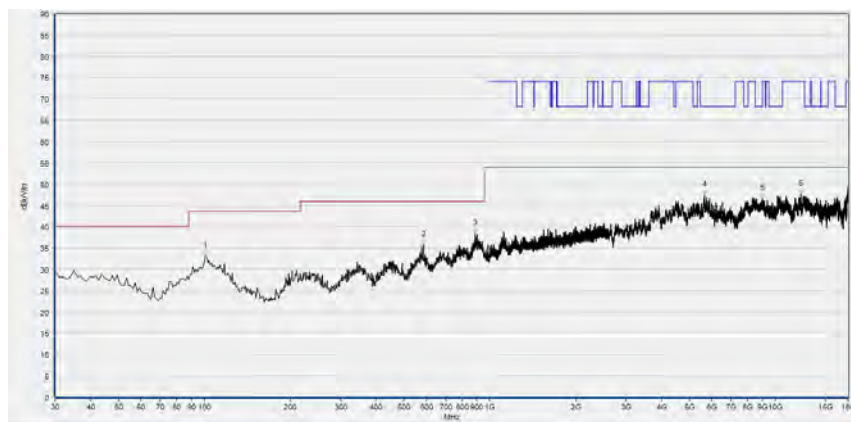
(Antenna Vertical, 30MHz to 18GHz)

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
100.881	31.98	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
578.599	34.44	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
903.874	37.52	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5850.050	47.07	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8428.526	47.32	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12621.244	47.74	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

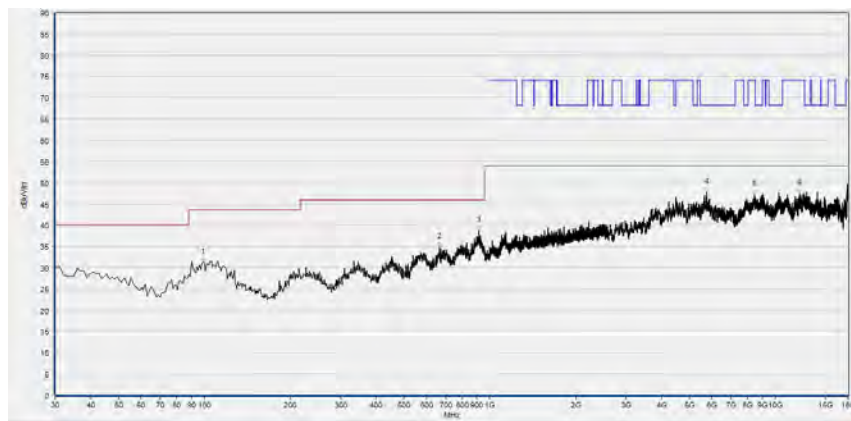
(Antenna Horizontal, 30MHz to 18GHz)



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
100.881	33.16	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
585.395	35.66	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
889.309	38.38	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5649.810	47.35	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
9001.520	46.64	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12322.424	47.68	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

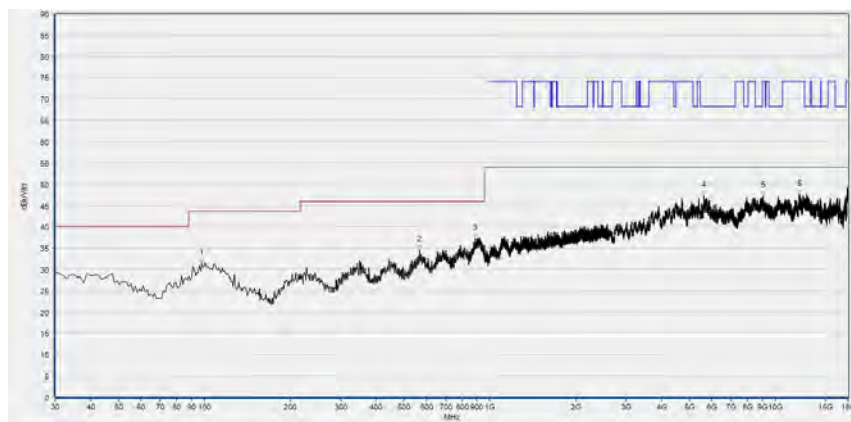
(Antenna Vertical, 30MHz to 18GHz)

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
98.939	31.15	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
665.986	34.87	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
916.496	38.65	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5757.632	47.76	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8474.735	47.07	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12162.232	47.49	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

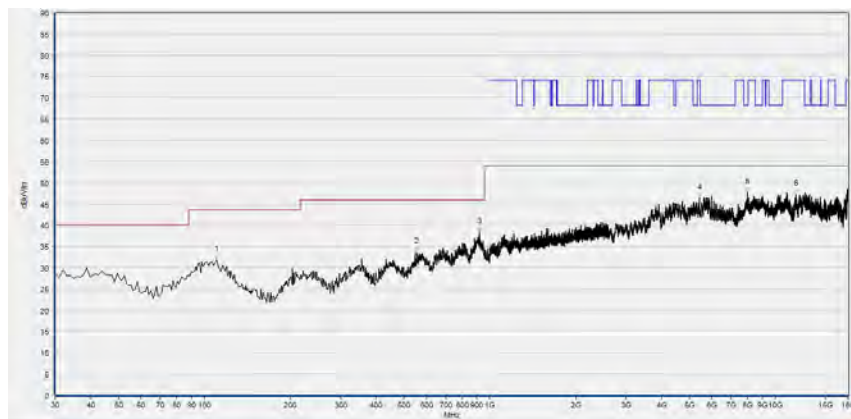


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
97.968	31.40	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
567.918	34.48	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
889.309	37.14	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5622.084	47.34	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
9069.294	47.21	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12183.797	47.54	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

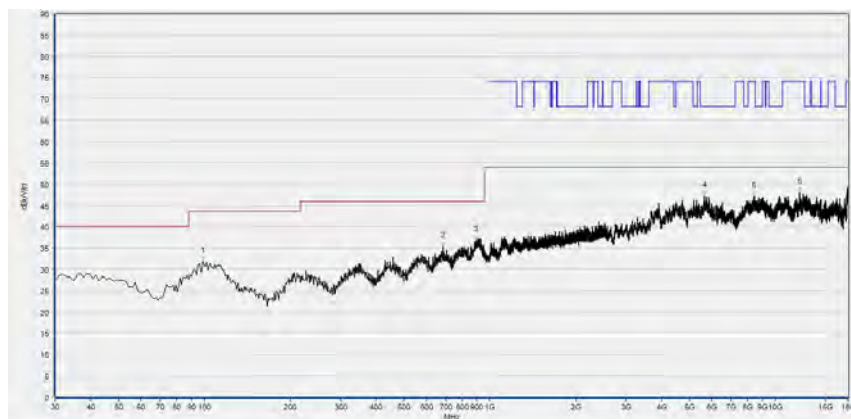


Plot for Channel 151



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
110.591	31.85	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
555.295	33.76	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
921.351	38.42	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5415.683	46.47	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7994.159	47.74	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11841.848	47.25	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

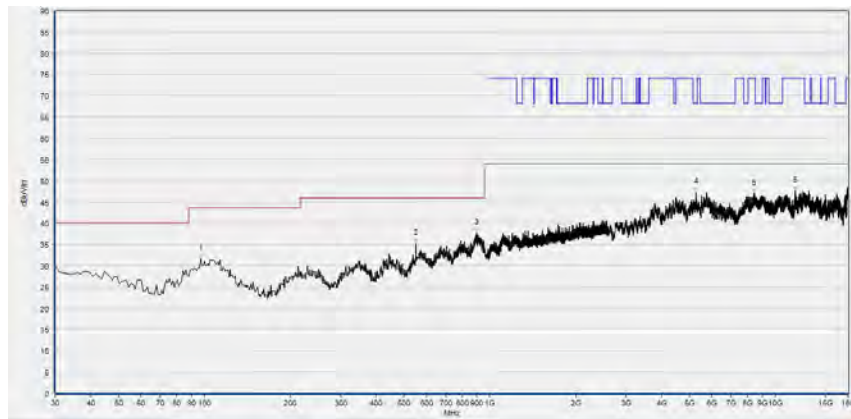
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
98.939	31.78	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
686.376	35.36	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
894.164	36.85	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5659.052	47.19	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8428.526	47.08	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12149.910	48.06	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

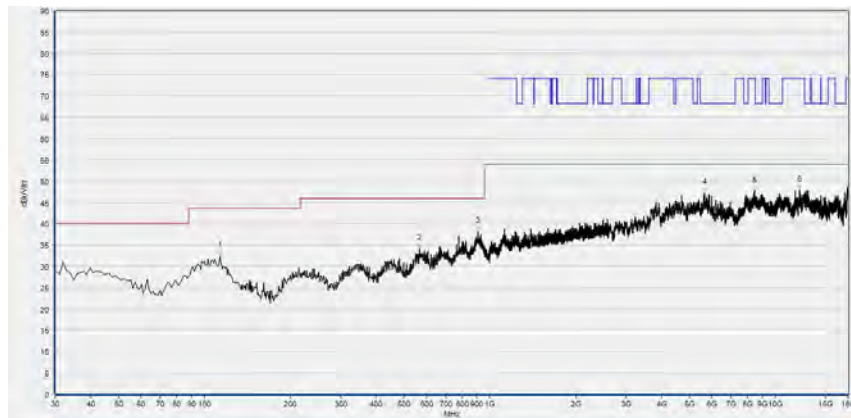
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 159



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
96.997	31.60	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
550.440	35.13	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
897.077	37.72	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5280.136	47.28	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8431.606	46.92	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11755.591	47.66	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



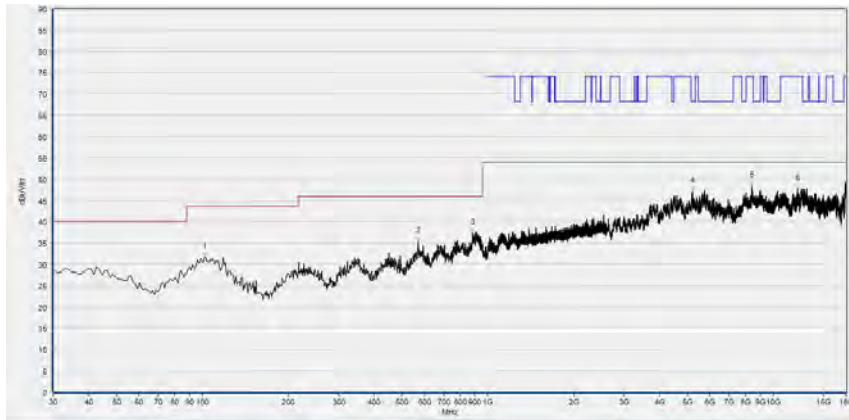
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
113.504	32.31	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
567.918	34.13	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
907.758	38.14	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5640.568	47.27	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8447.009	47.80	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12177.636	47.97	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)



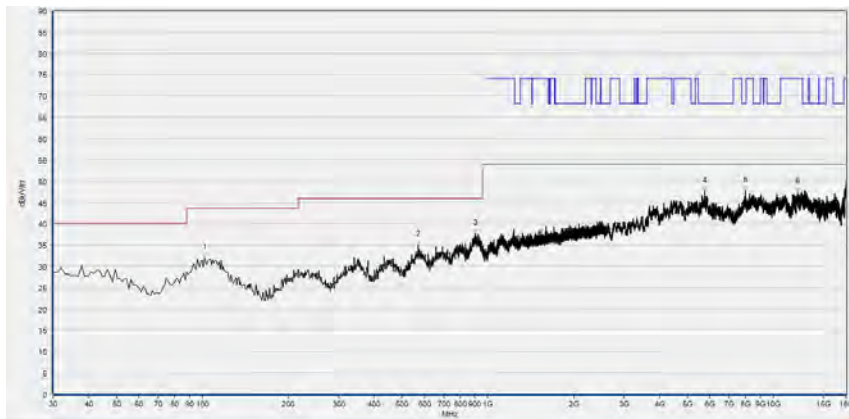
802.11ac (VHT80) Mode

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
101.852	31.63	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
570.831	35.31	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
882.513	37.32	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5203.121	47.11	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8434.687	48.51	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12137.588	47.78	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

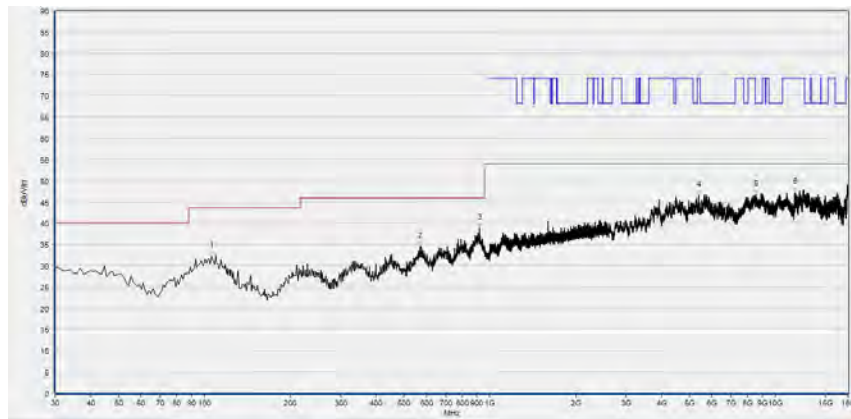


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
101.852	32.00	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
570.831	35.02	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
906.787	37.75	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5745.309	47.66	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8003.401	47.81	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12162.232	47.37	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

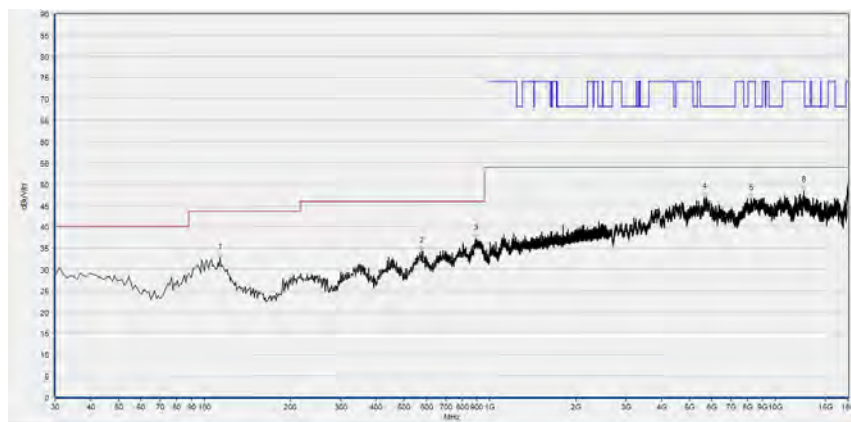


Plot for Channel 58



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
105.736	32.26	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
568.889	34.56	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
918.438	38.83	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5403.361	46.53	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8573.315	46.71	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11721.704	47.20	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

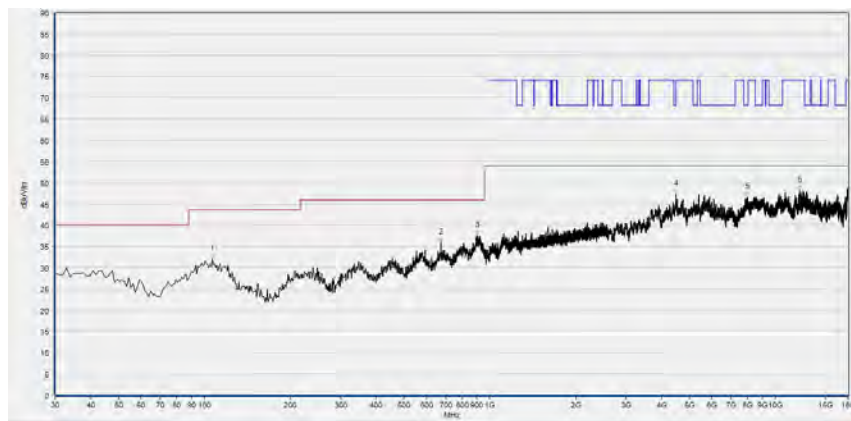


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
113.504	32.73	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
577.628	34.19	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
896.106	37.13	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5637.487	46.90	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8203.641	46.58	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12565.793	48.41	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

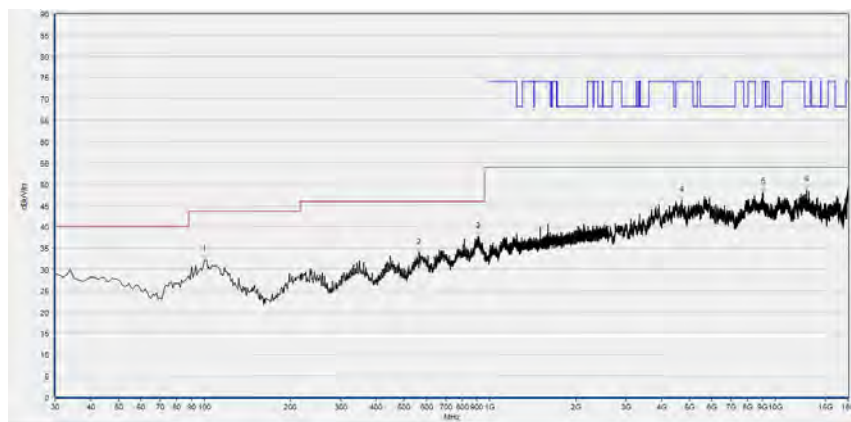


Plot for Channel 106



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
106.707	32.03	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
673.754	35.80	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
904.845	37.47	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
4497.660	47.23	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
7984.917	46.58	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12143.749	48.02	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

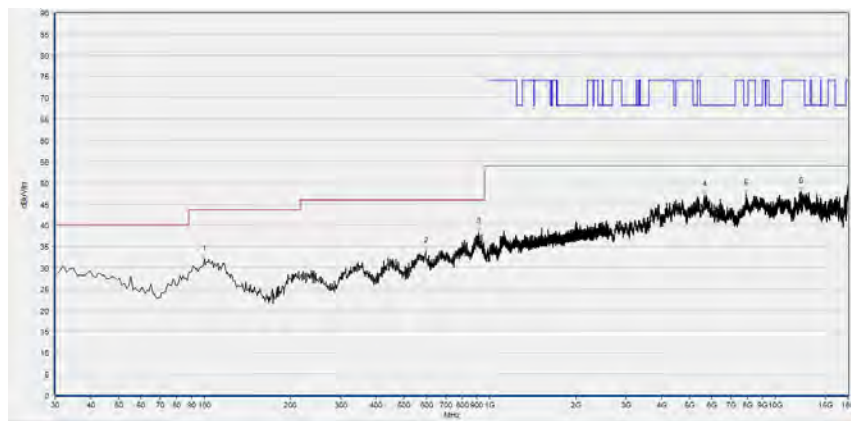
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
99.910	32.12	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
565.005	33.82	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
907.758	37.66	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
4700.980	46.27	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9053.891	48.04	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12876.935	48.63	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

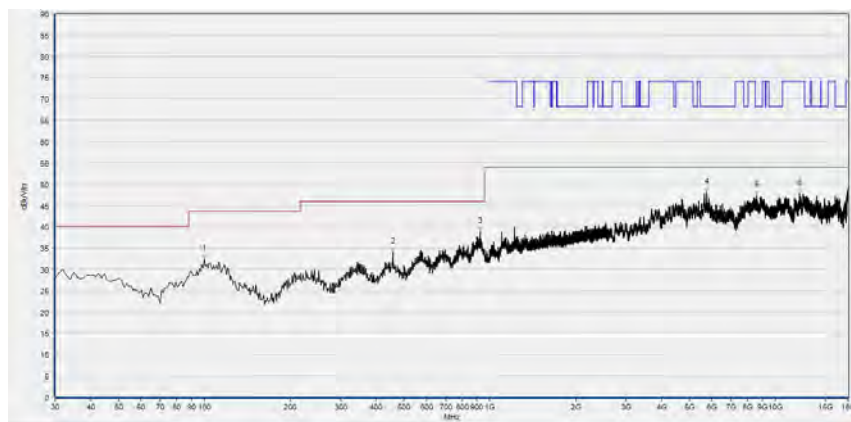
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 122



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
99.910	31.99	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
596.076	33.87	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
915.526	38.31	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5668.294	47.14	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
7886.337	47.37	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12288.538	47.93	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

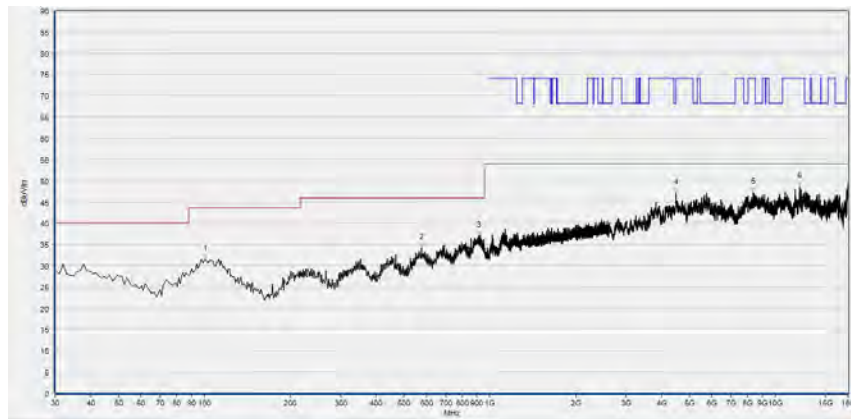
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
99.910	32.35	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
457.227	34.06	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
923.293	38.82	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5742.228	48.15	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8607.201	47.50	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12165.313	47.75	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

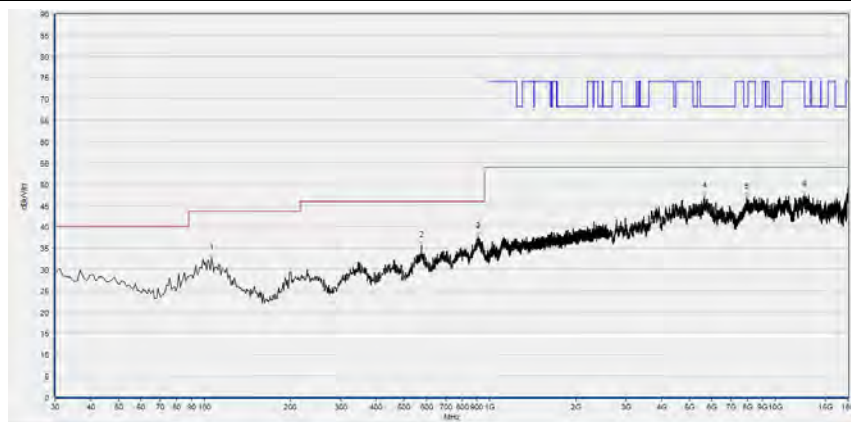
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 138



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
100.881	31.45	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
575.686	34.24	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
914.555	37.06	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
4491.498	47.02	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8345.349	47.21	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12159.152	48.68	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

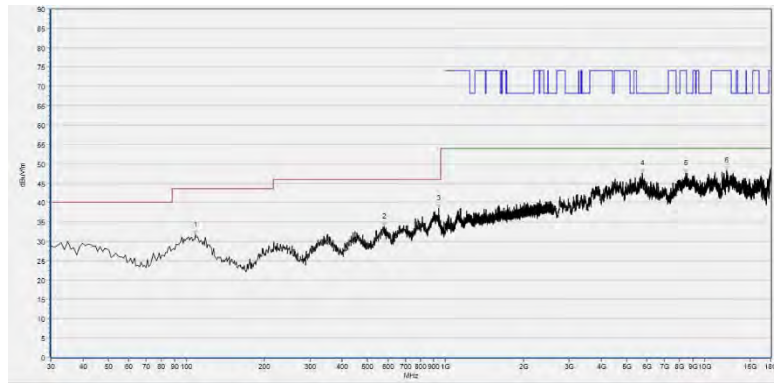
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
105.736	32.52	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
575.686	35.47	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
909.700	37.79	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5637.487	47.14	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
7944.869	46.90	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12636.647	47.40	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

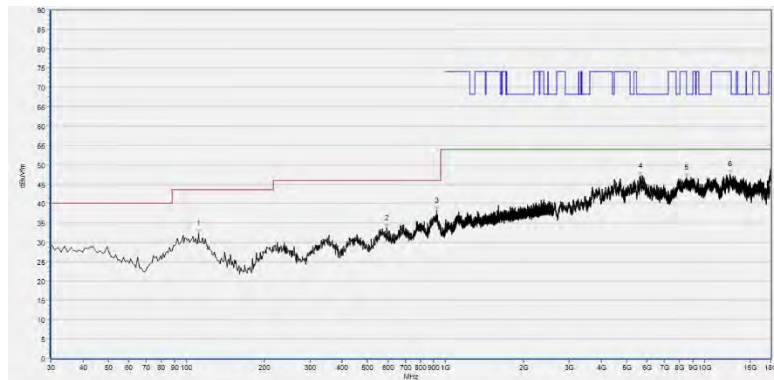
(Antenna Vertical, 30MHz to 18GHz)

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
108.649	31.60	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
579.570	33.81	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
940.771	38.57	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5763.793	47.63	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8459.332	47.54	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12168.394	48.28	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
111.562	32.31	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
592.192	33.72	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
925.235	38.18	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5640.568	47.10	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8520.944	46.70	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12531.906	47.57	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

END OF REPORT