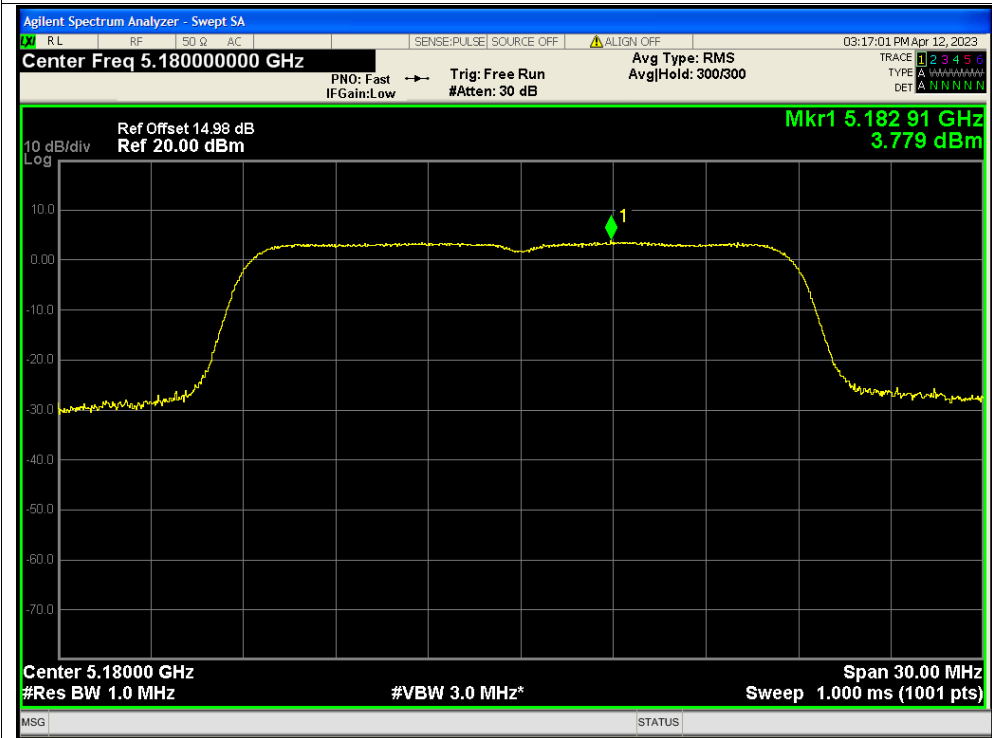
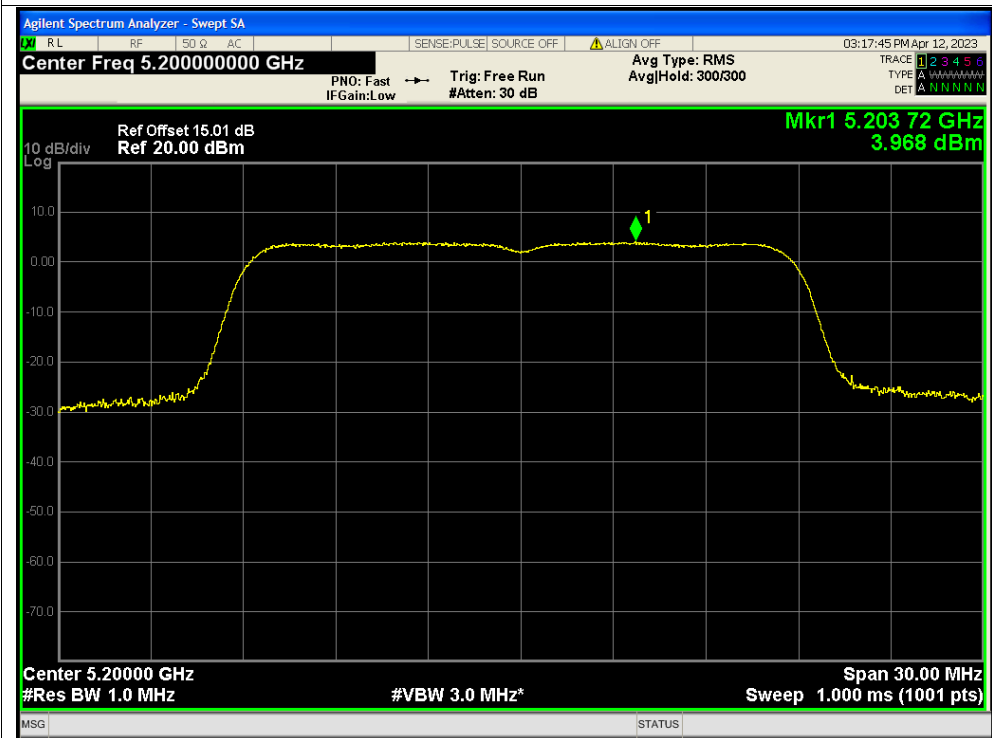




### PSD NVNT n20 5180MHz Ant1

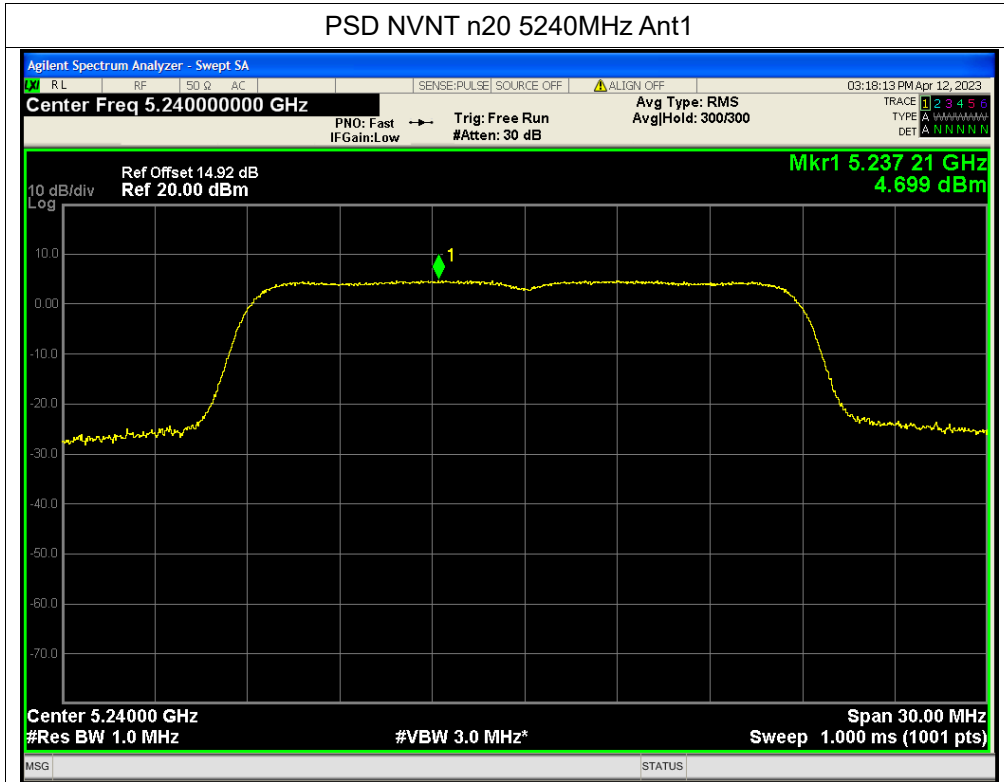


### PSD NVNT n20 5200MHz Ant1

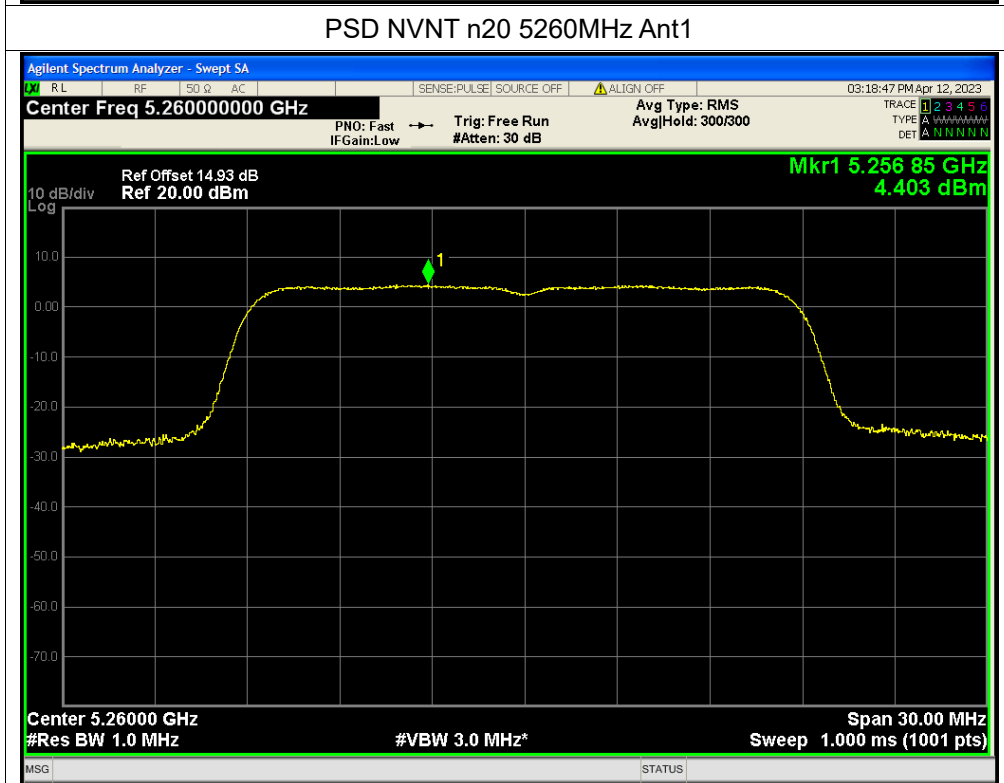




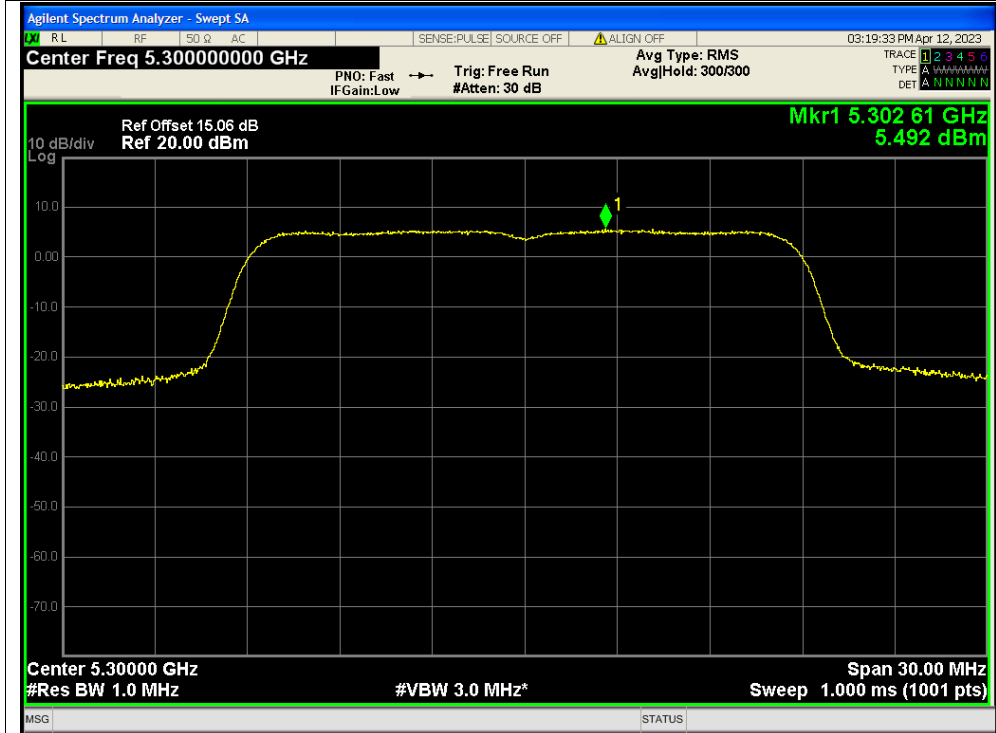
PSD NVNT n20 5240MHz Ant1



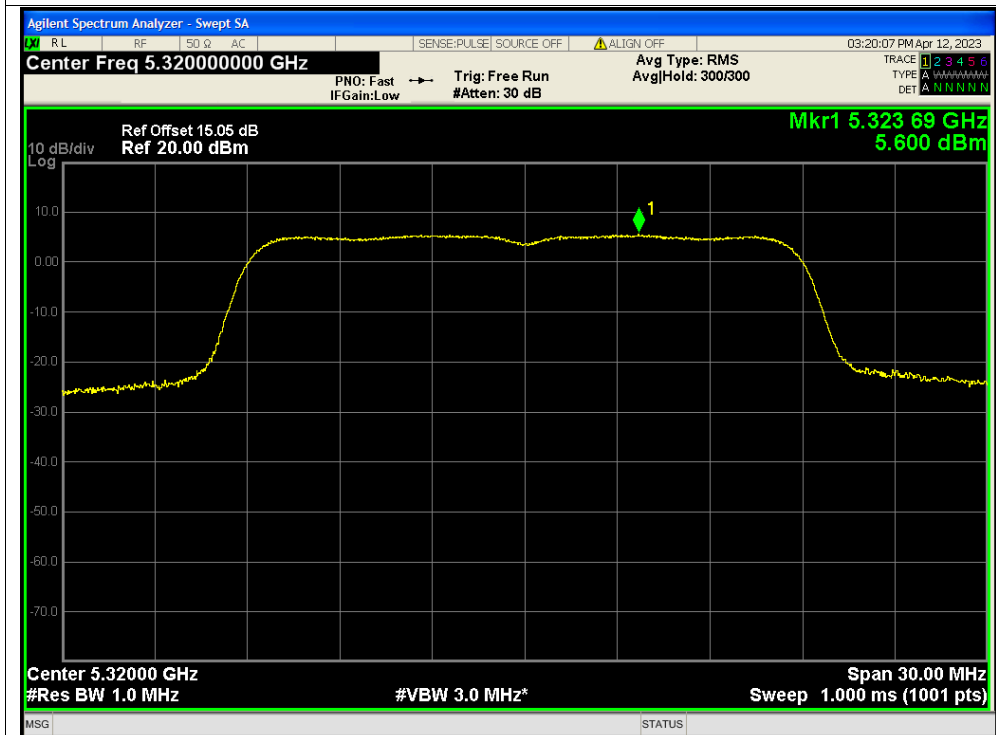
PSD NVNT n20 5260MHz Ant1



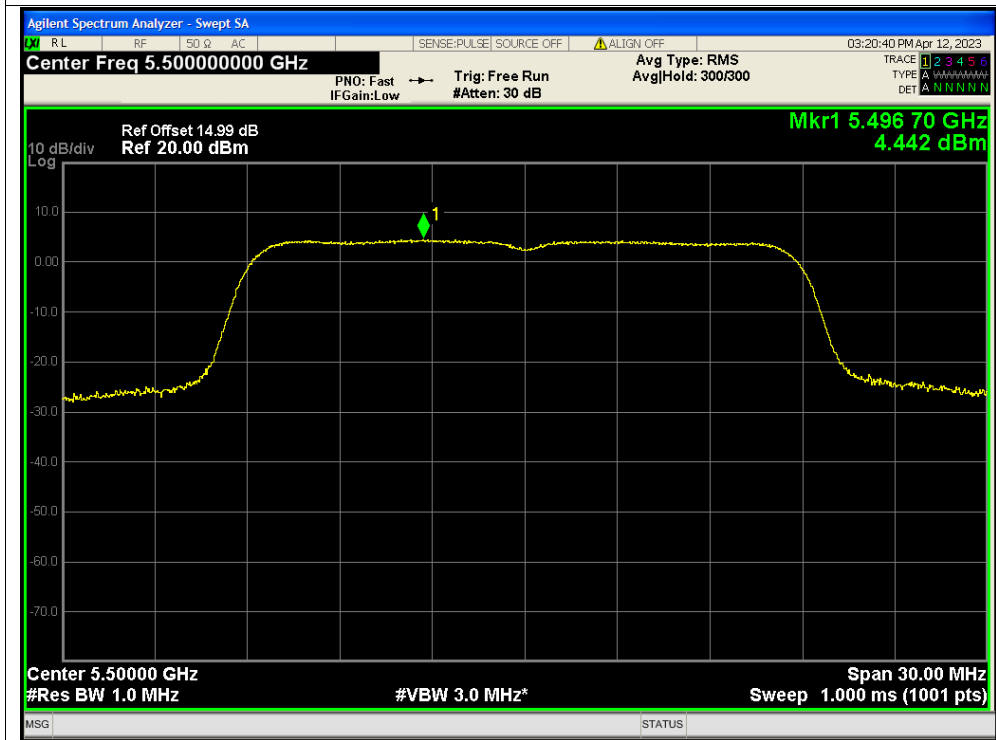
PSD NVNT n20 5300MHz Ant1



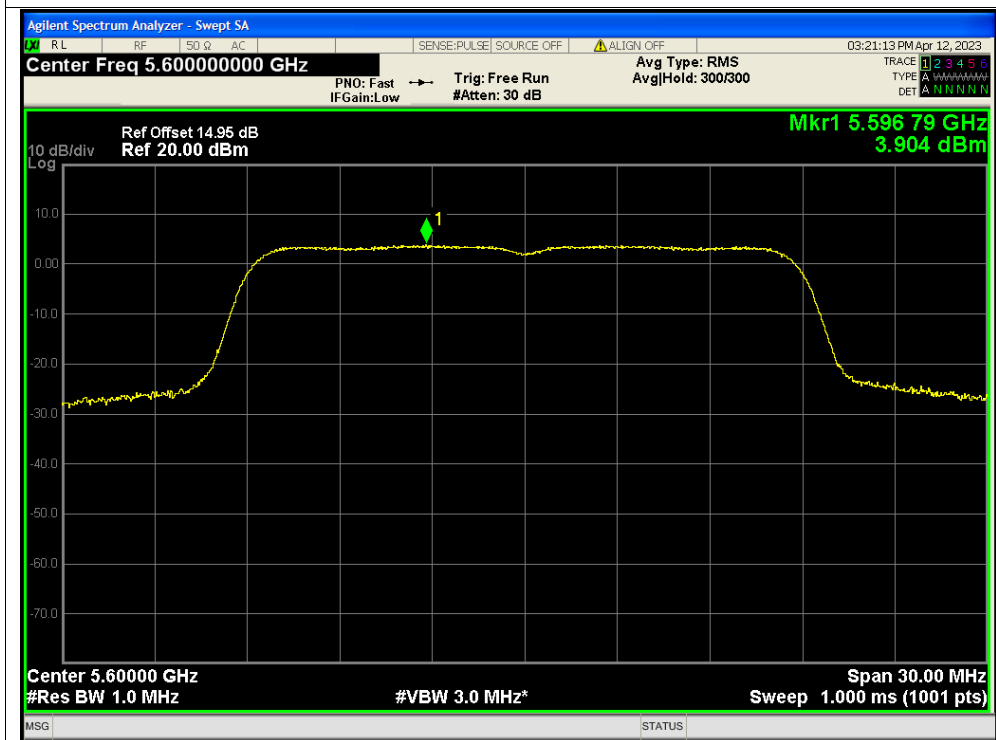
PSD NVNT n20 5320MHz Ant1



PSD NVNT n20 5500MHz Ant1

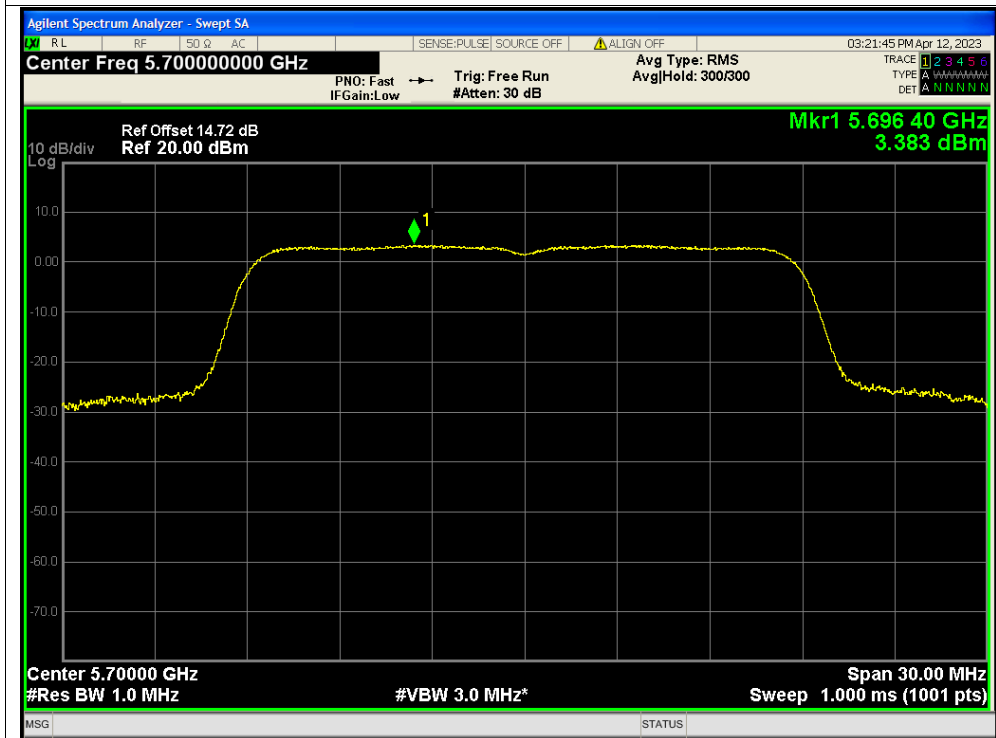


PSD NVNT n20 5600MHz Ant1

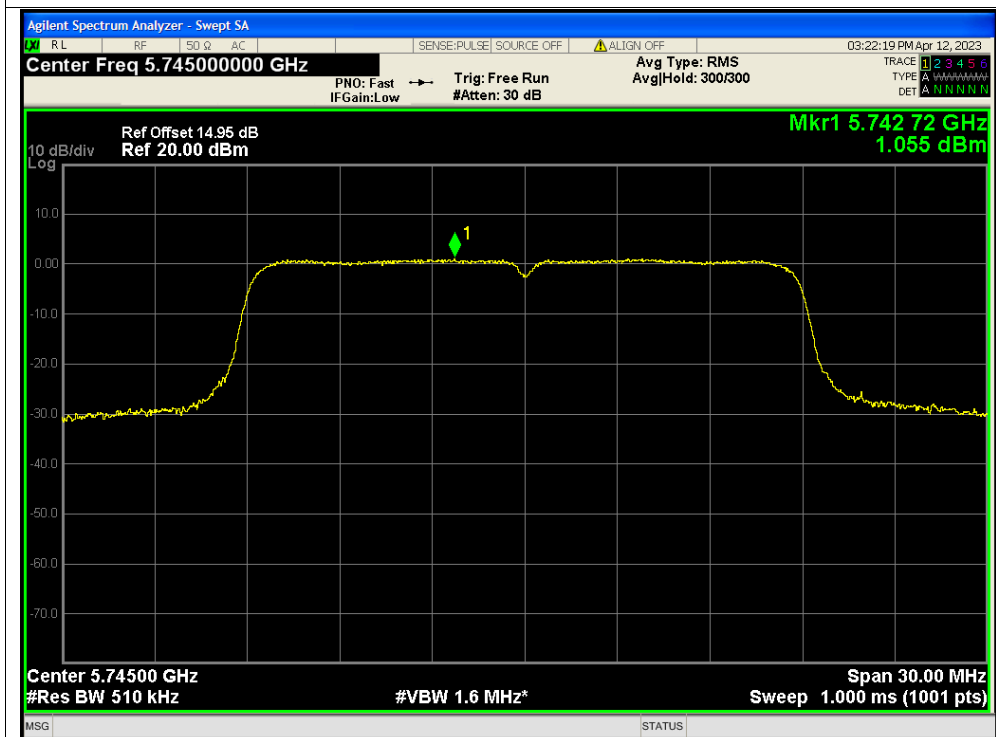




PSD NVNT n20 5700MHz Ant1

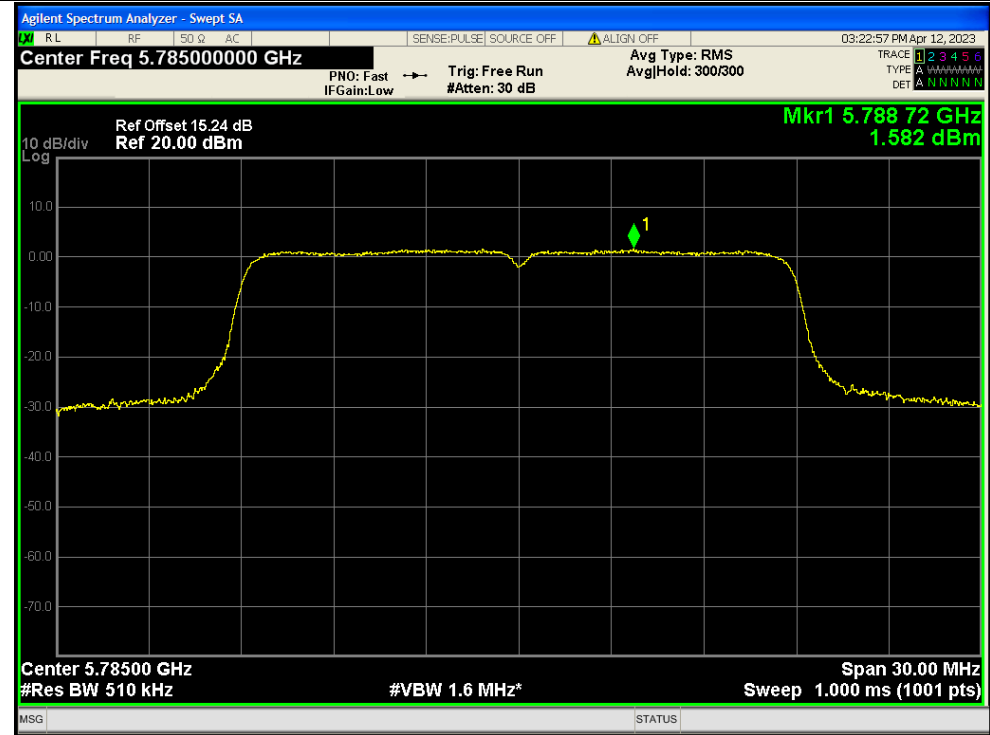


PSD NVNT n20 5745MHz Ant1

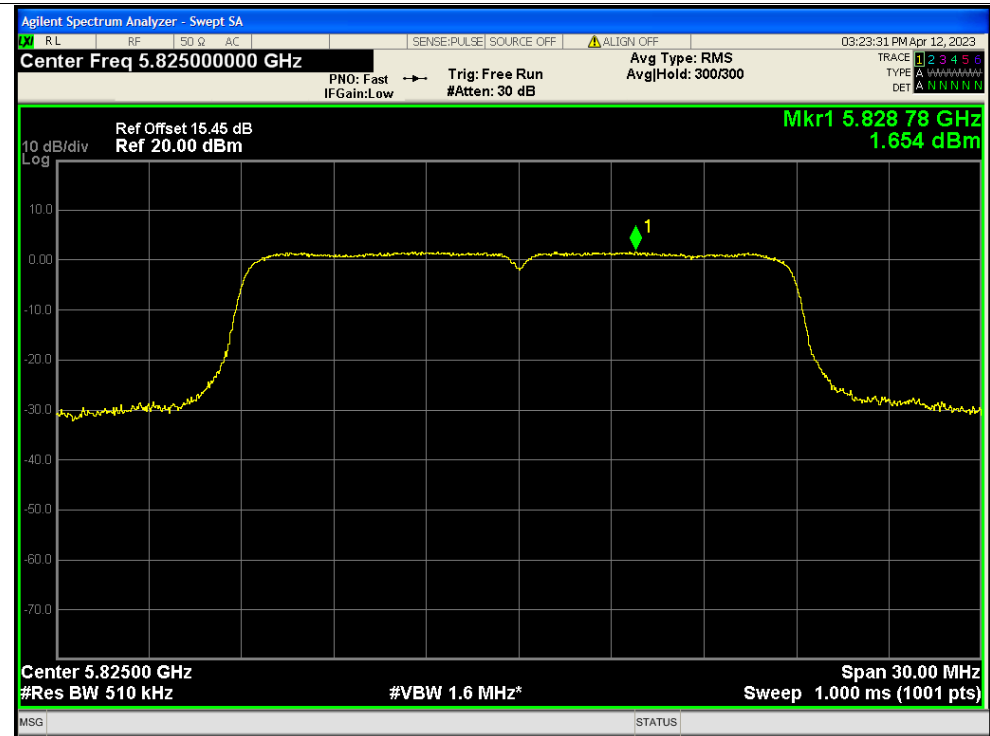




PSD NVNT n20 5785MHz Ant1

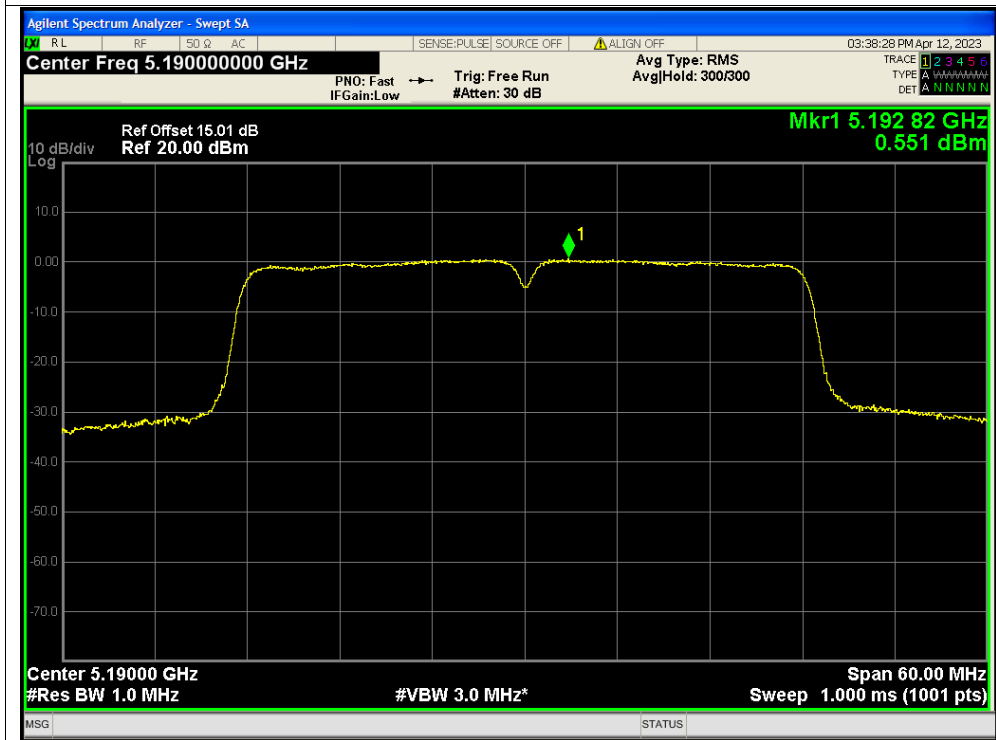


PSD NVNT n20 5825MHz Ant1

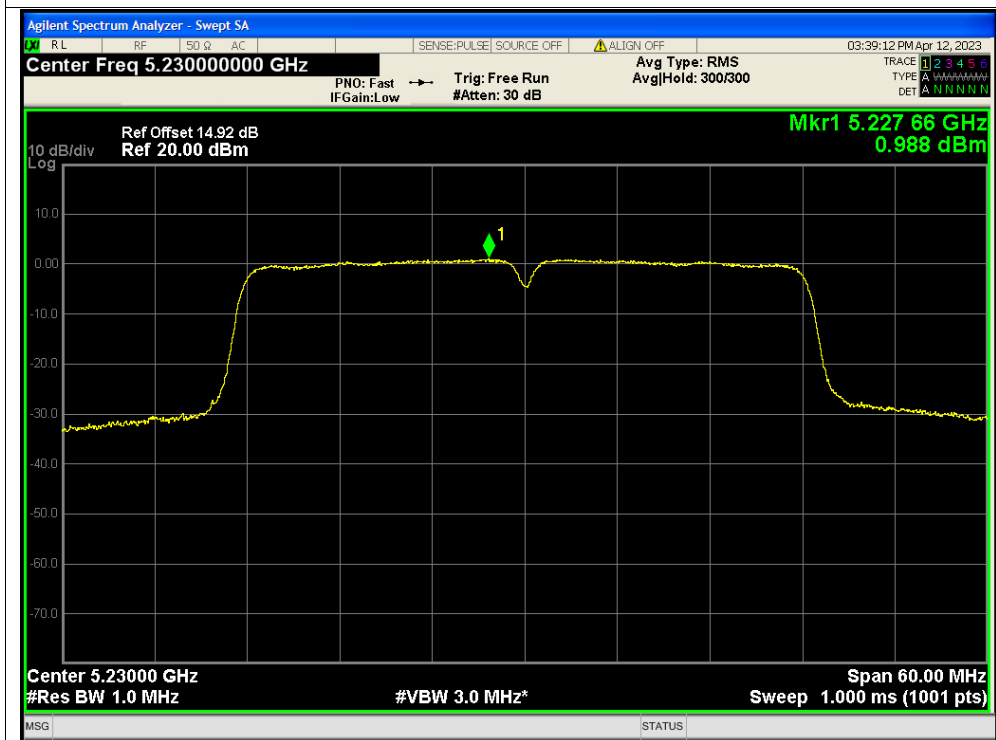




PSD NVNT n40 5190MHz Ant1

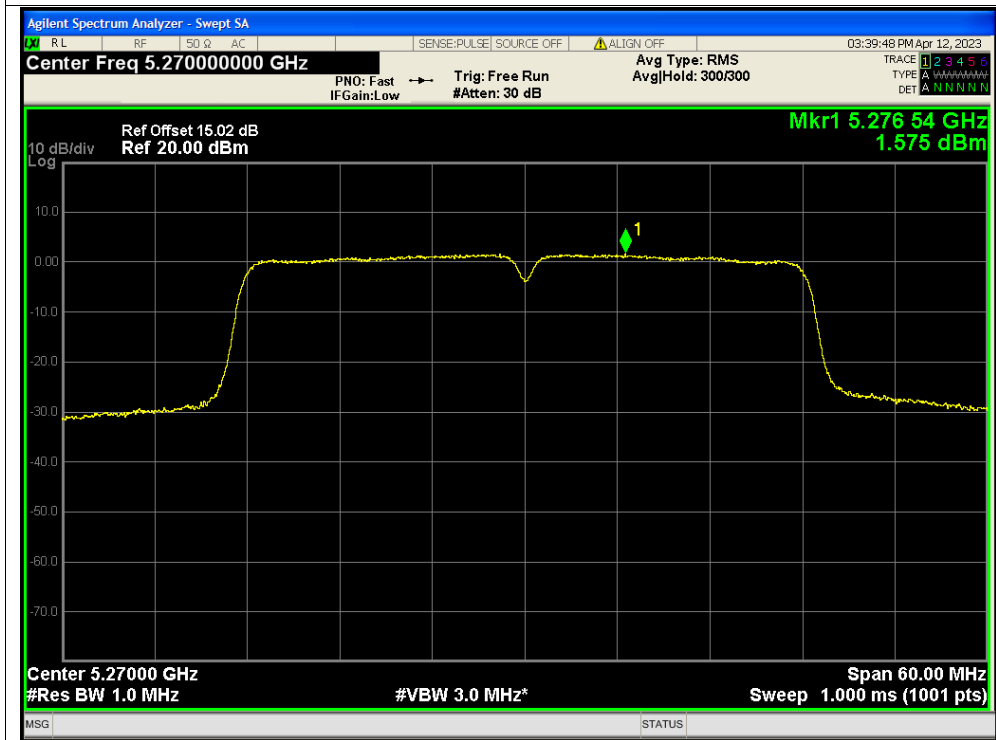


PSD NVNT n40 5230MHz Ant1

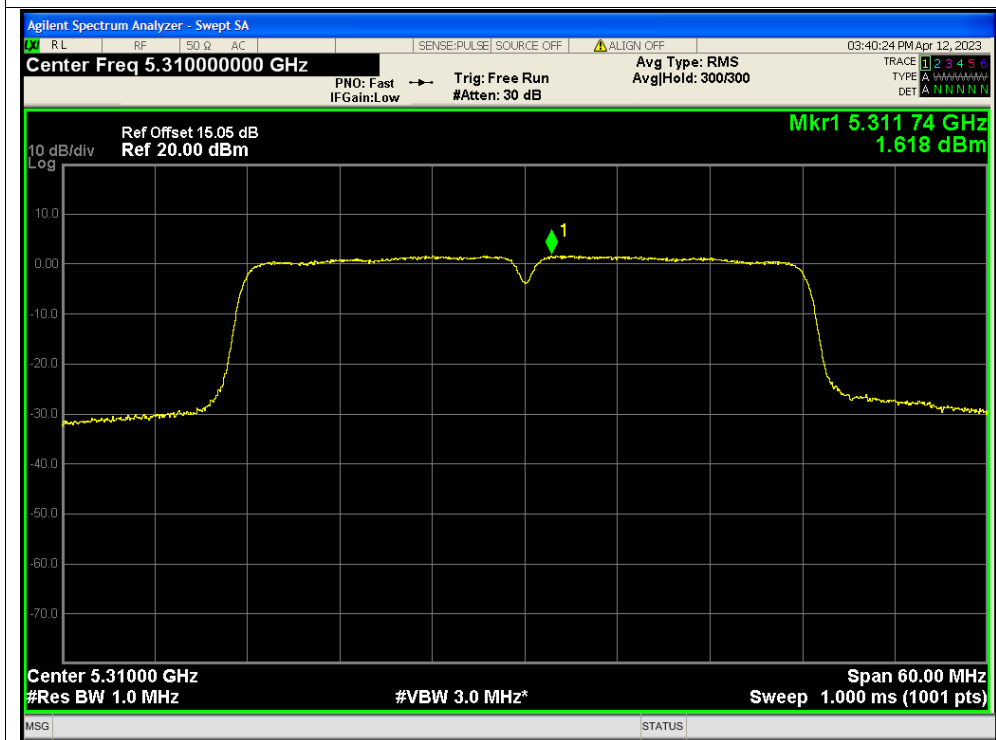




PSD NVNT n40 5270MHz Ant1



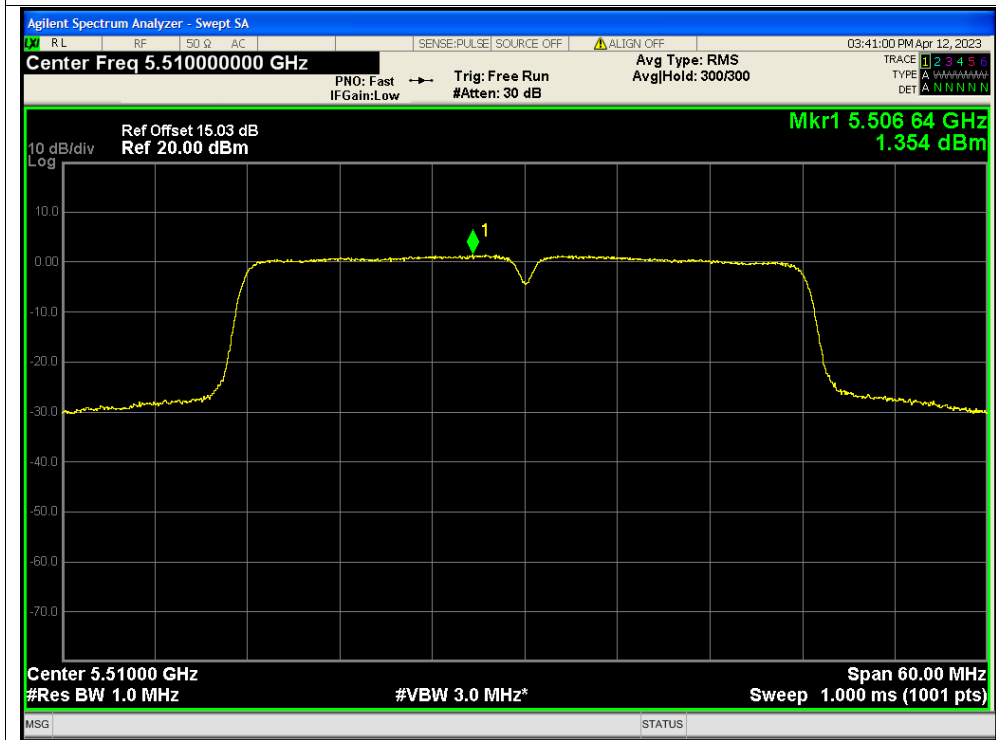
PSD NVNT n40 5310MHz Ant1



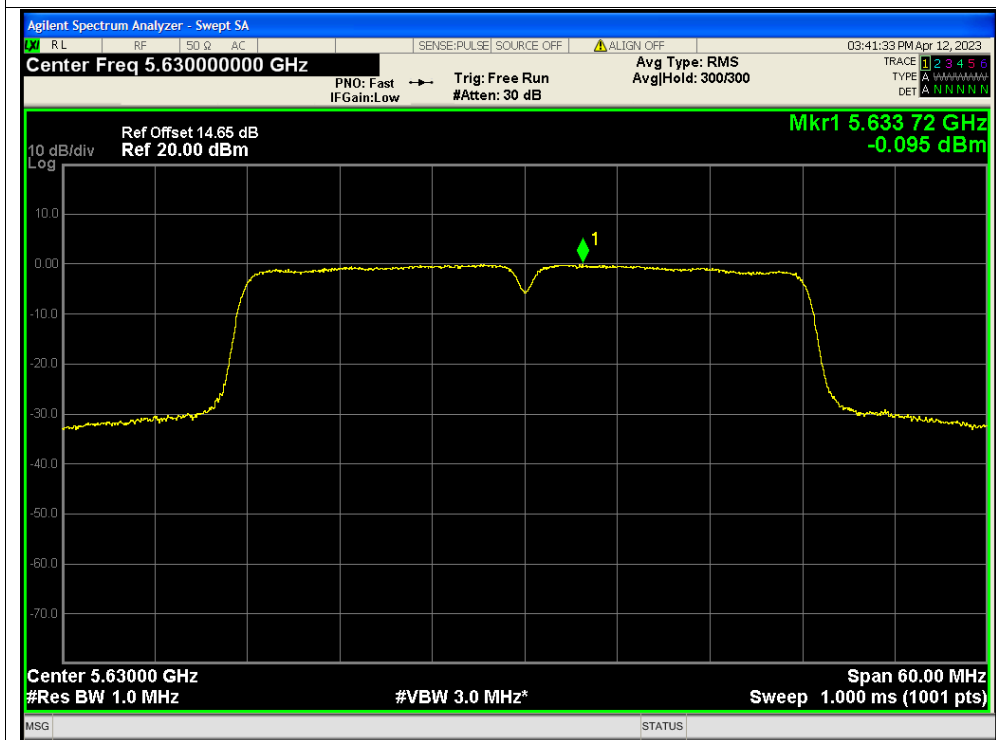




PSD NVNT n40 5510MHz Ant1

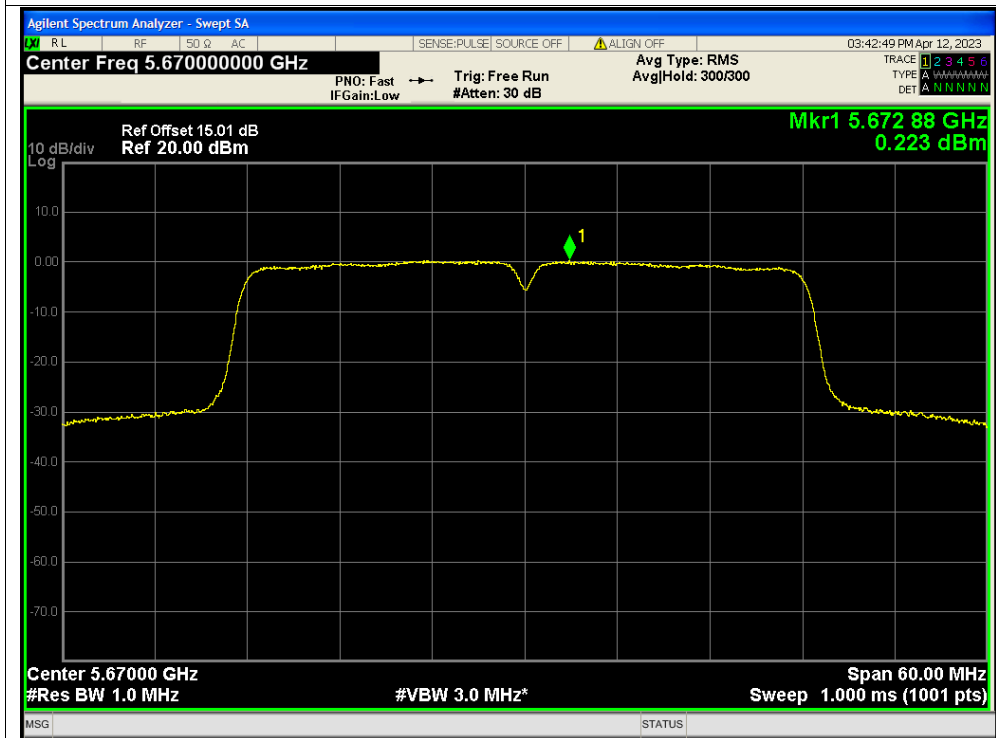


PSD NVNT n40 5630MHz Ant1

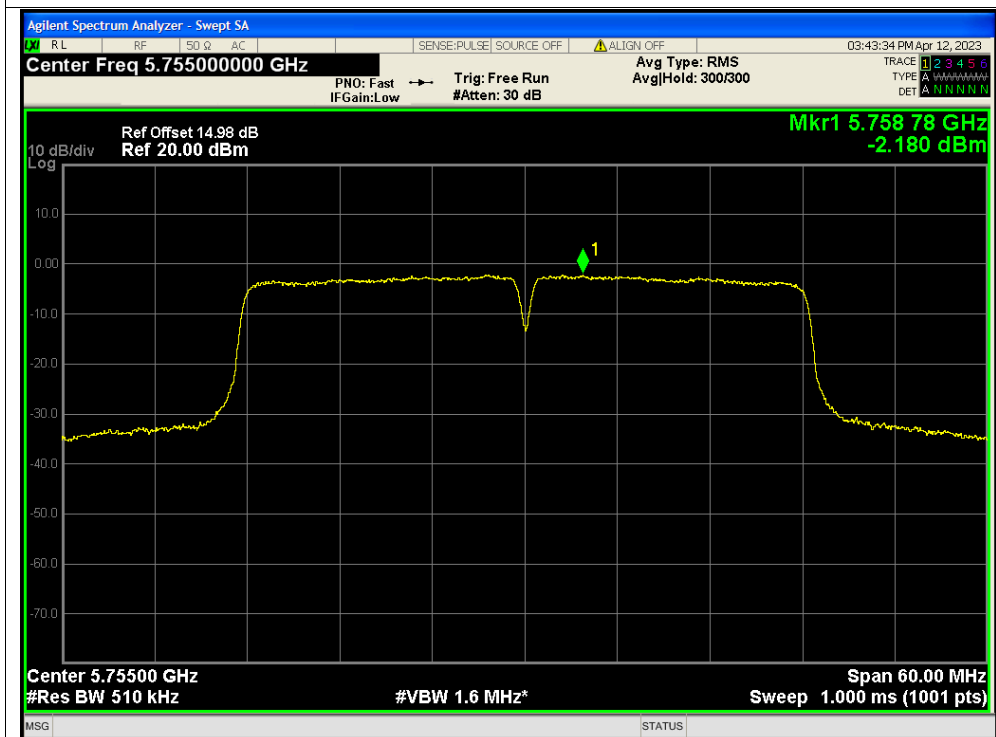




PSD NVNT n40 5670MHz Ant1

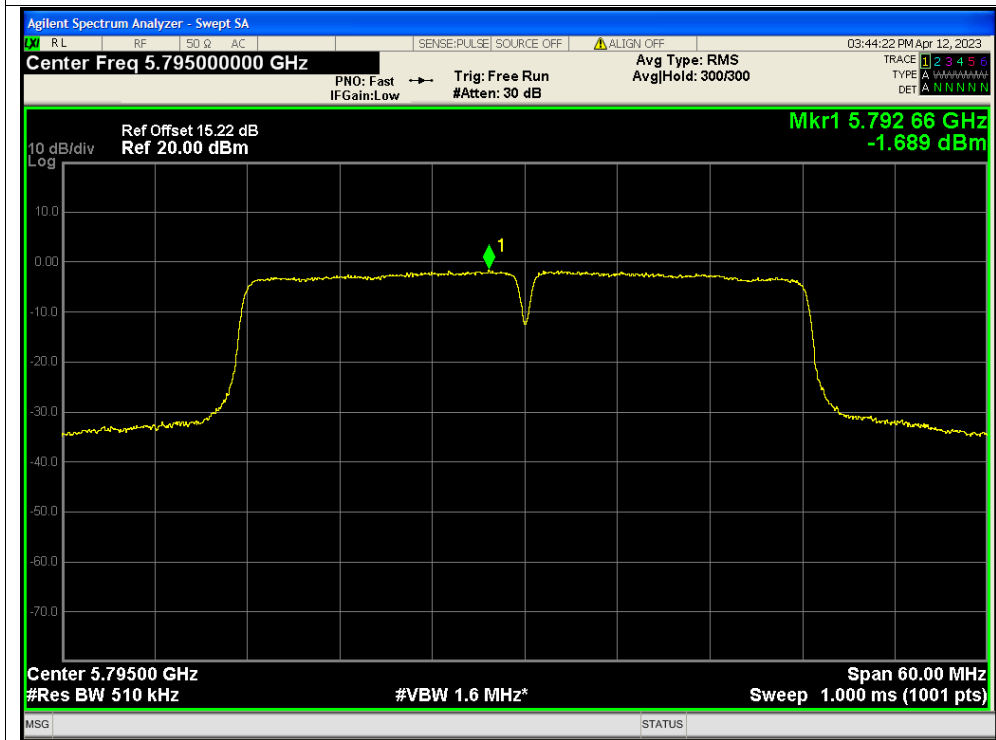


PSD NVNT n40 5755MHz Ant1

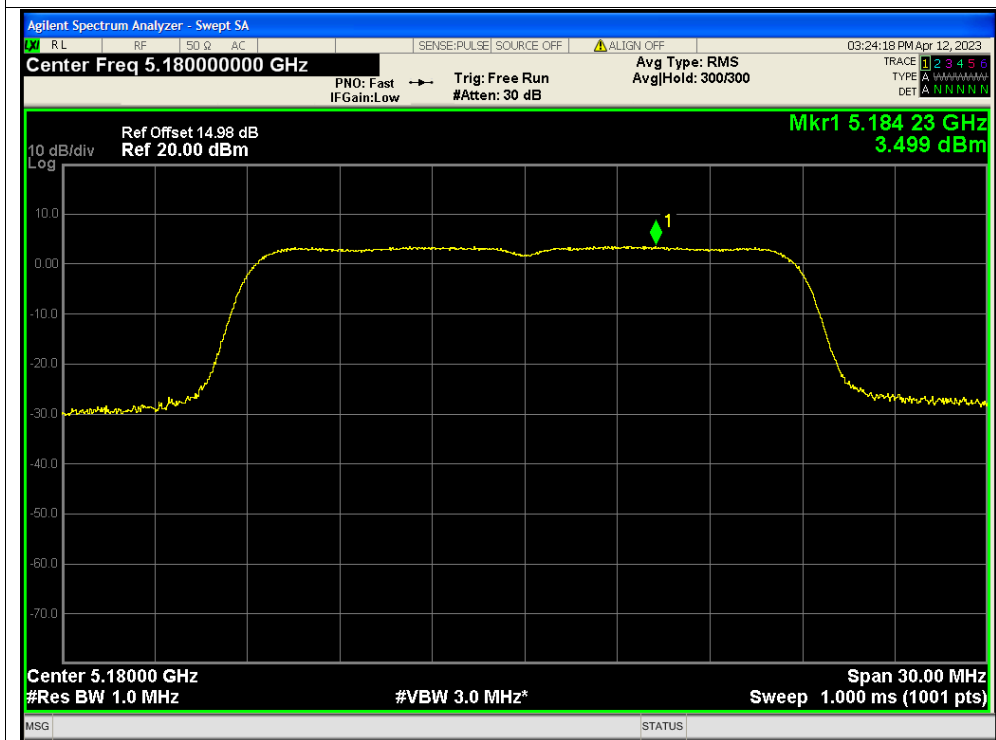




PSD NVNT n40 5795MHz Ant1

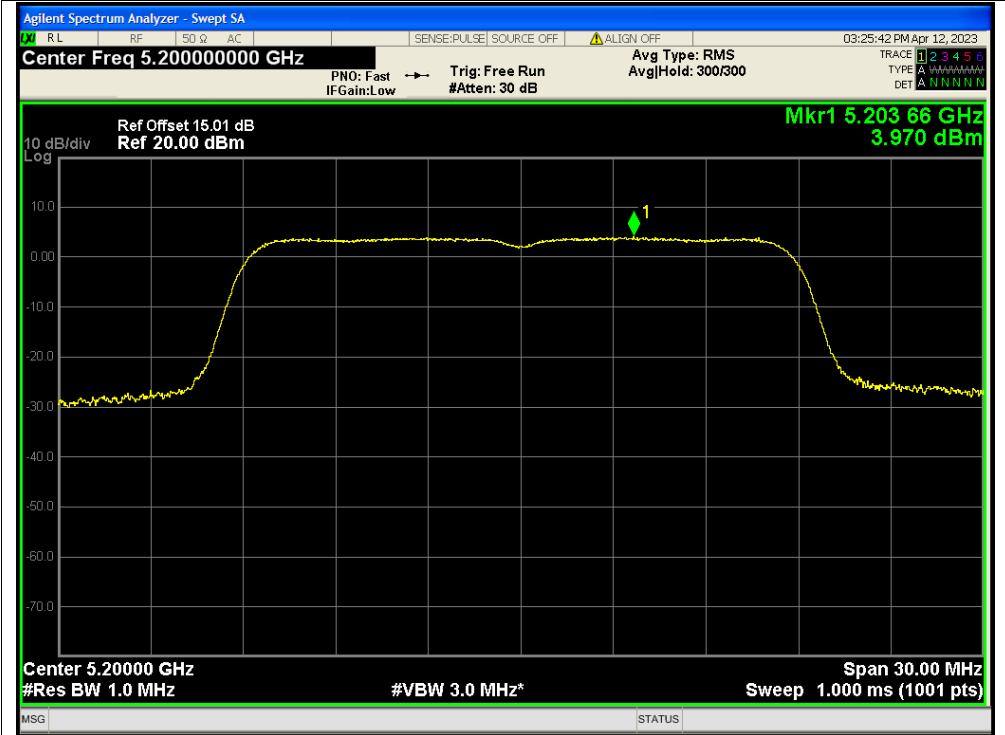


PSD NVNT ac20 5180MHz Ant1

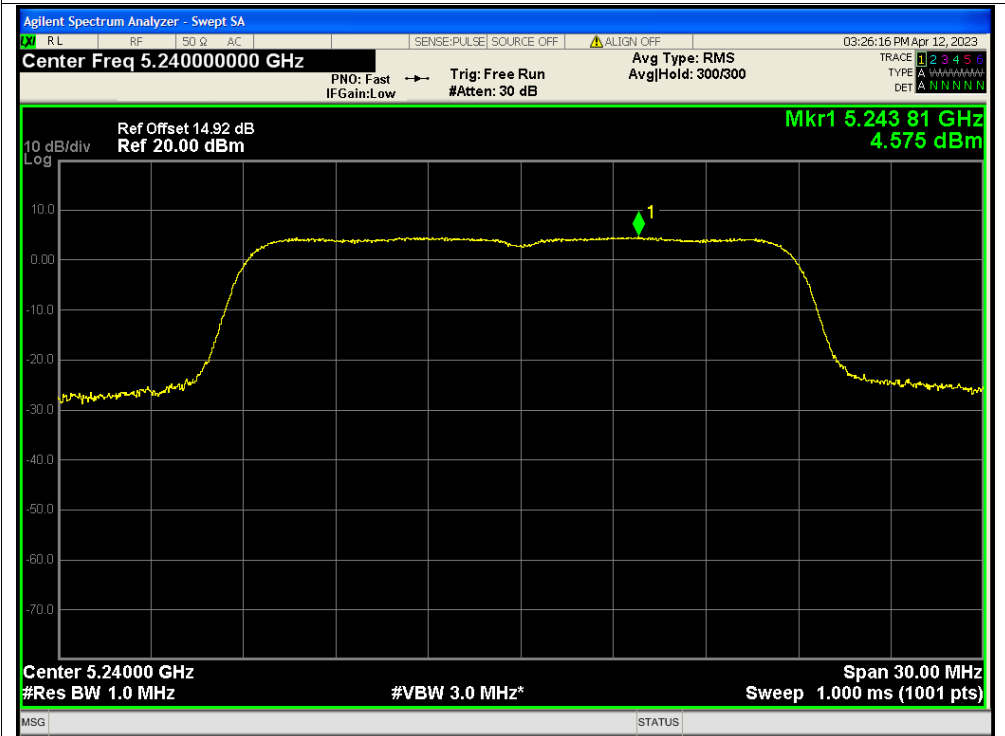




PSD NVNT ac20 5200MHz Ant1

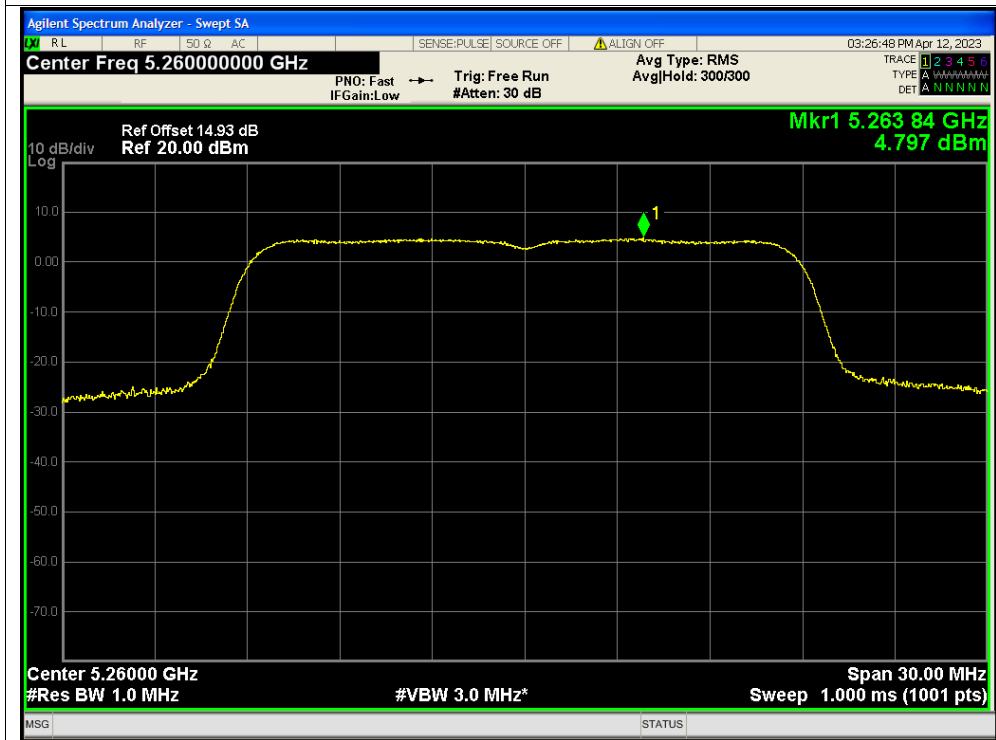


PSD NVNT ac20 5240MHz Ant1

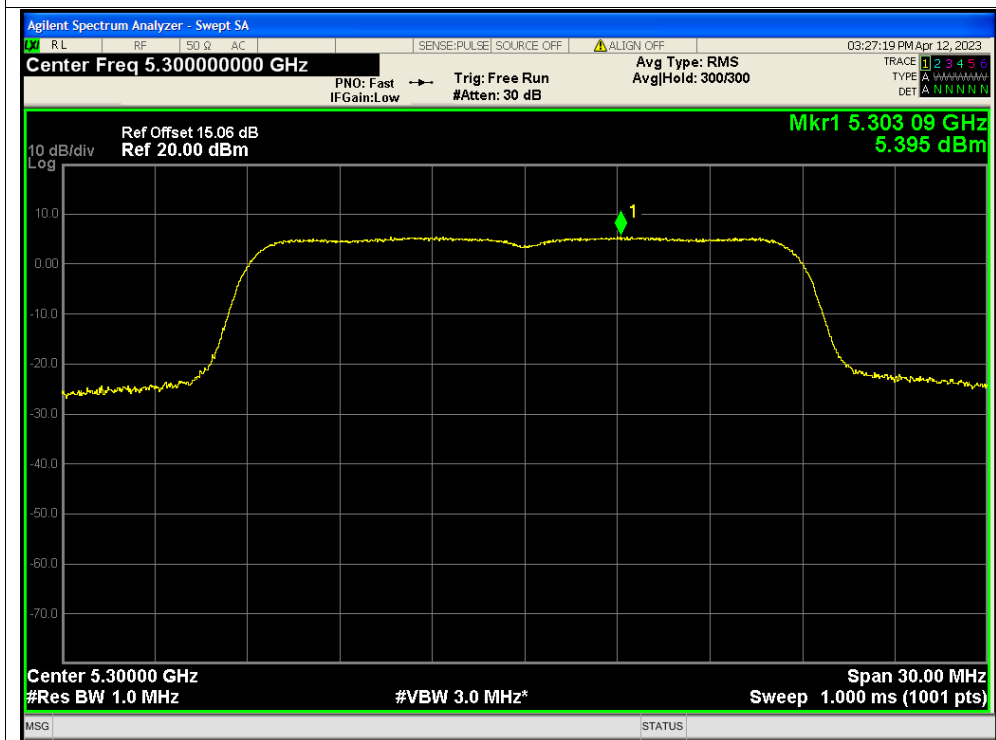




PSD NVNT ac20 5260MHz Ant1

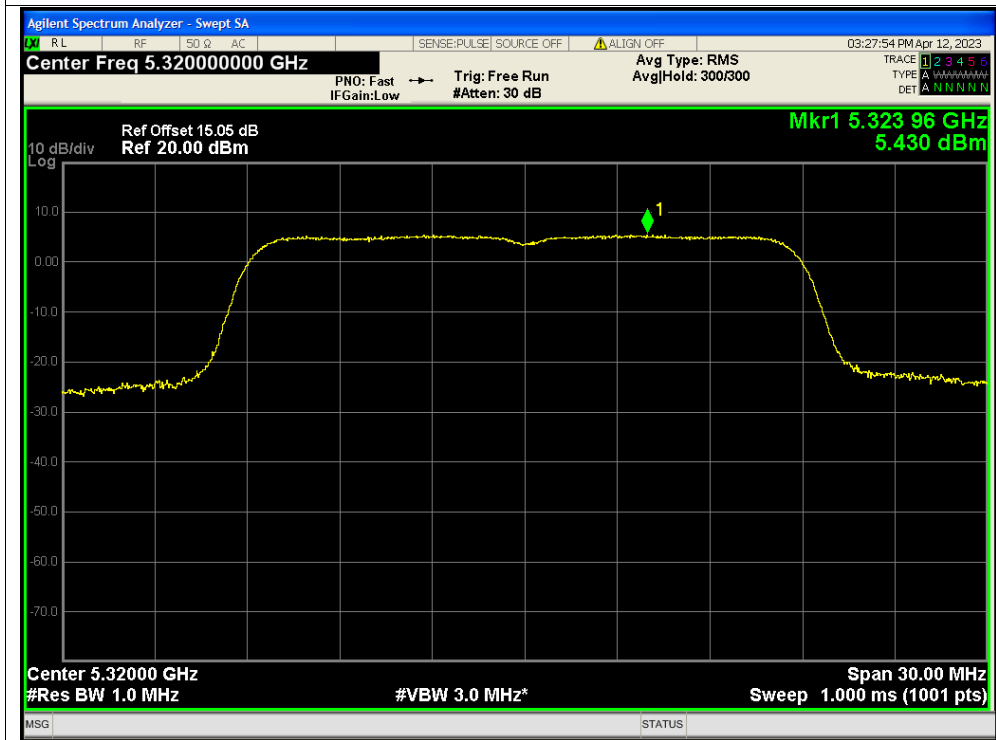


PSD NVNT ac20 5300MHz Ant1

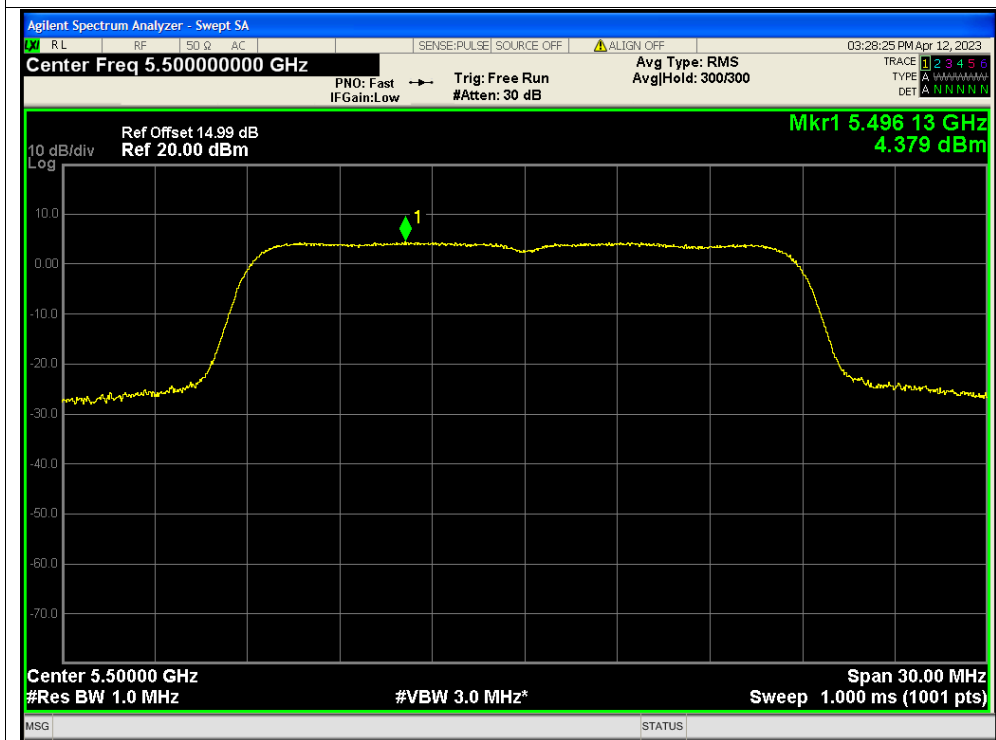




PSD NVNT ac20 5320MHz Ant1

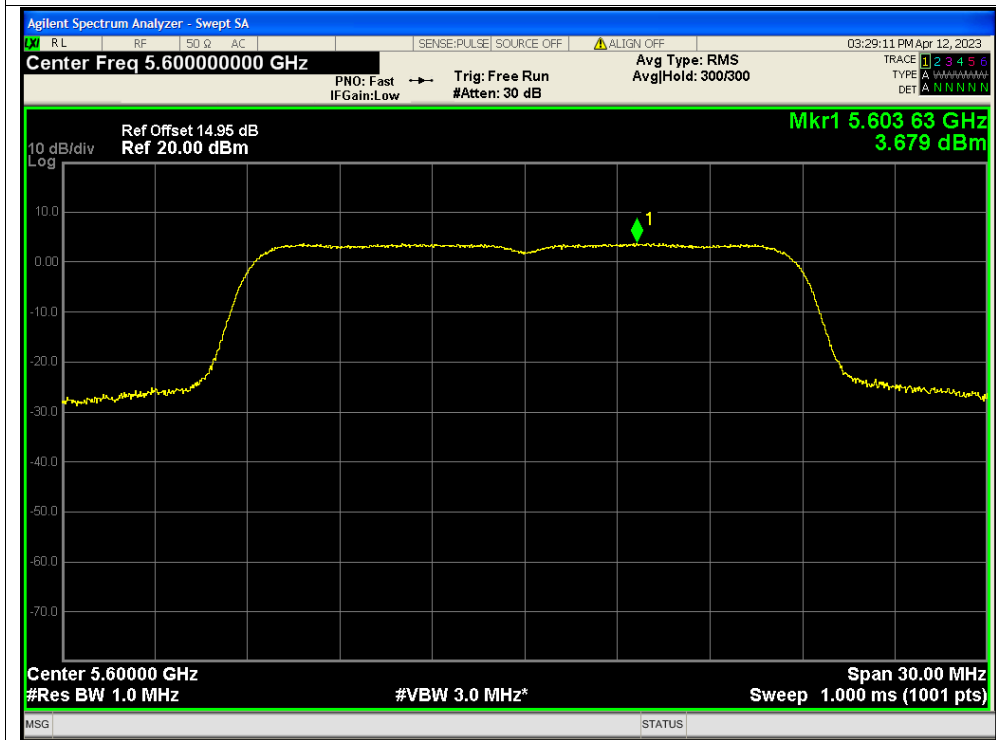


PSD NVNT ac20 5500MHz Ant1

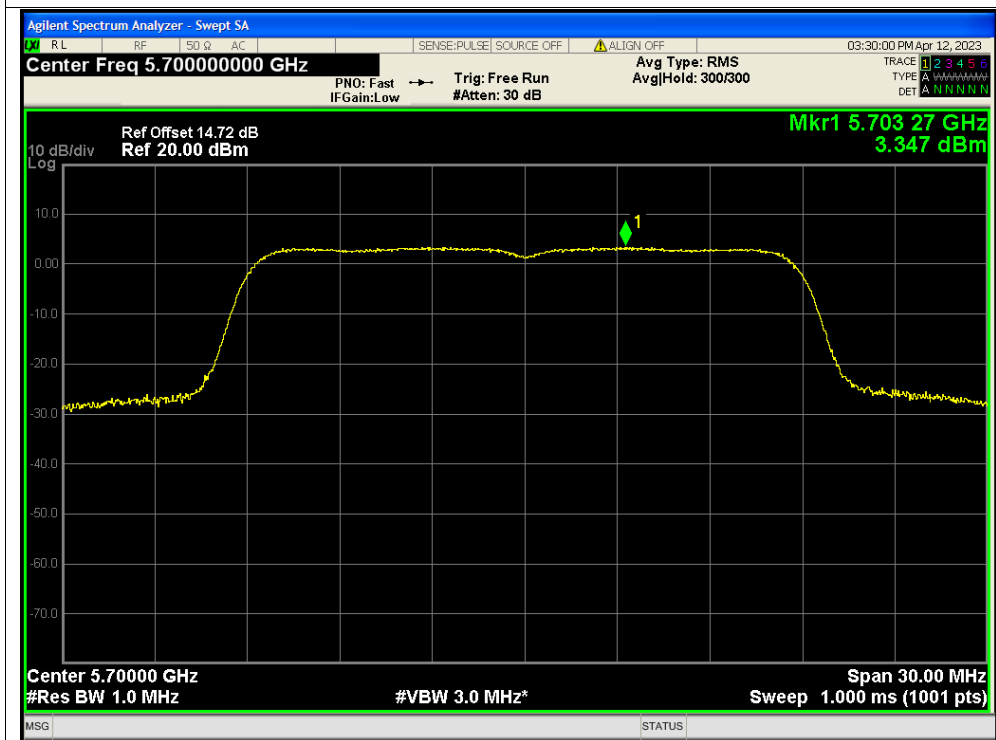




PSD NVNT ac20 5600MHz Ant1

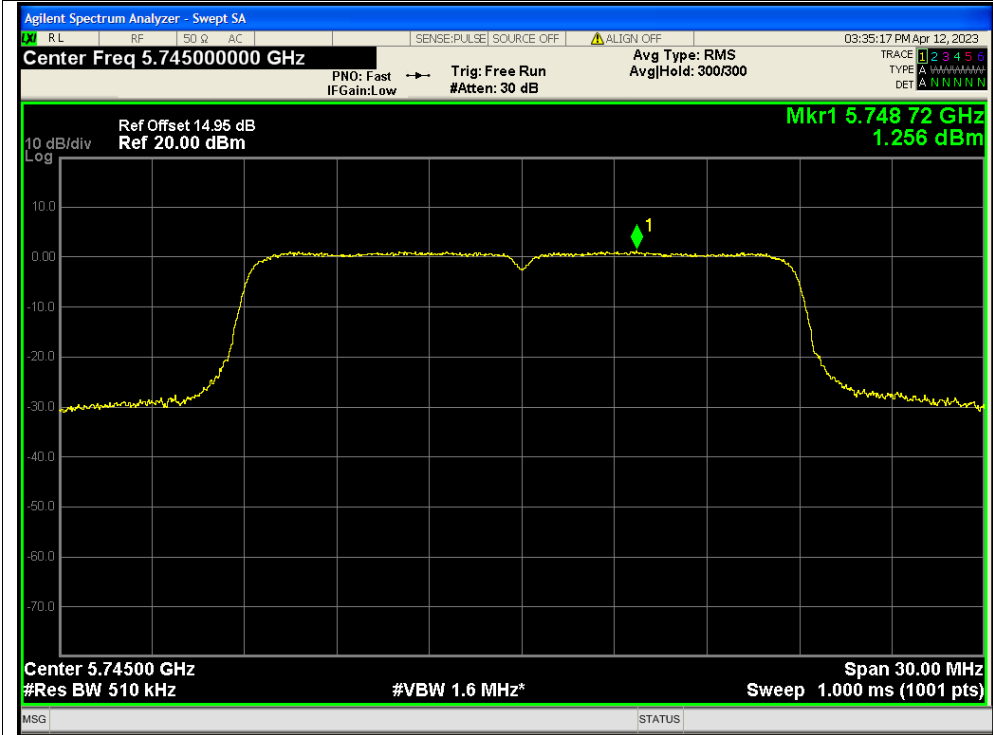


PSD NVNT ac20 5700MHz Ant1

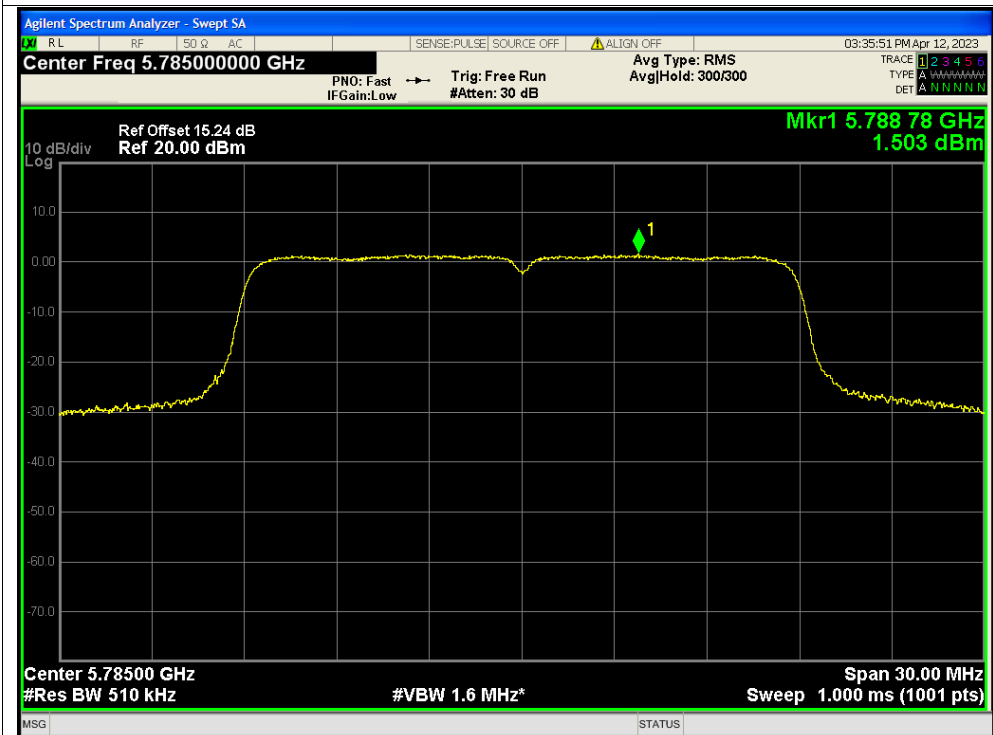




PSD NVNT ac20 5745MHz Ant1



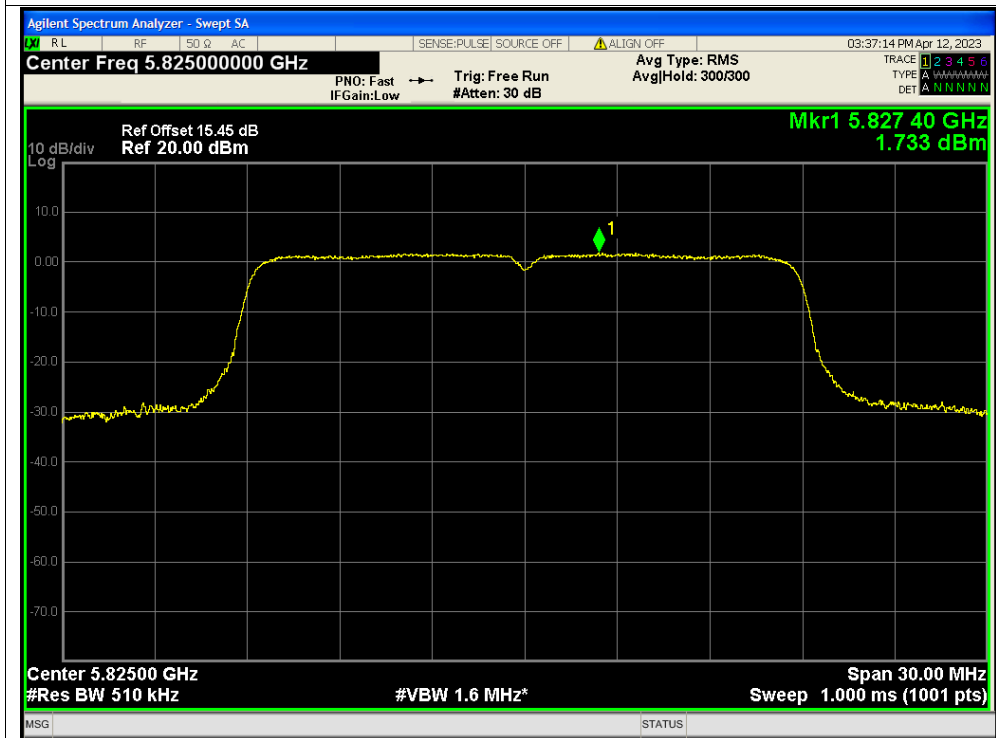
PSD NVNT ac20 5785MHz Ant1



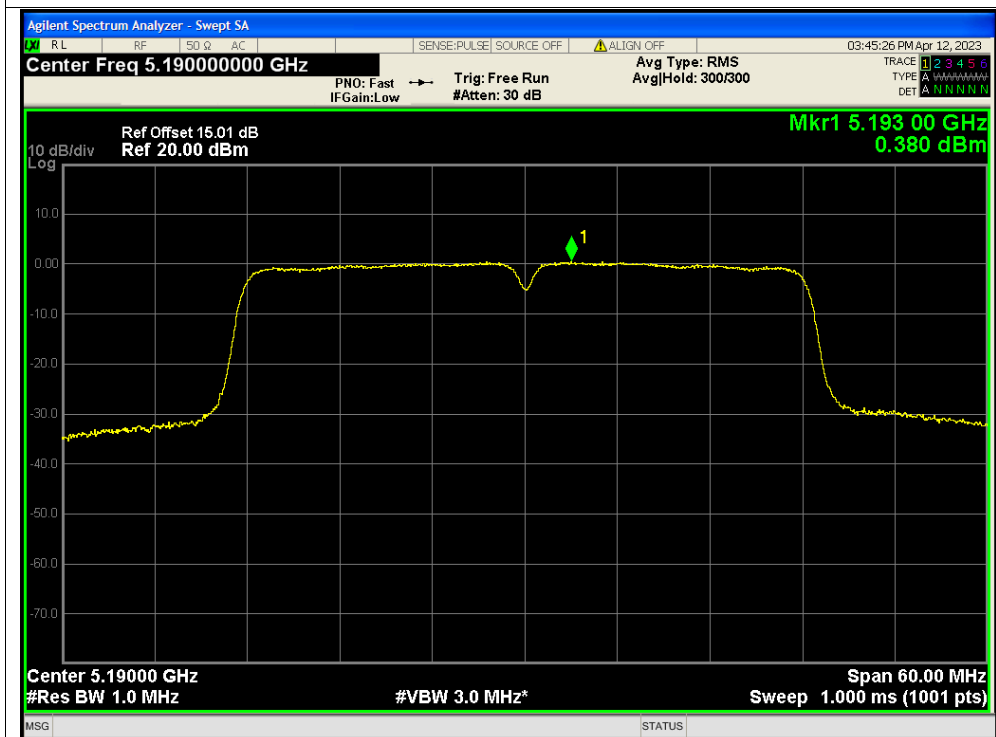




PSD NVNT ac20 5825MHz Ant1

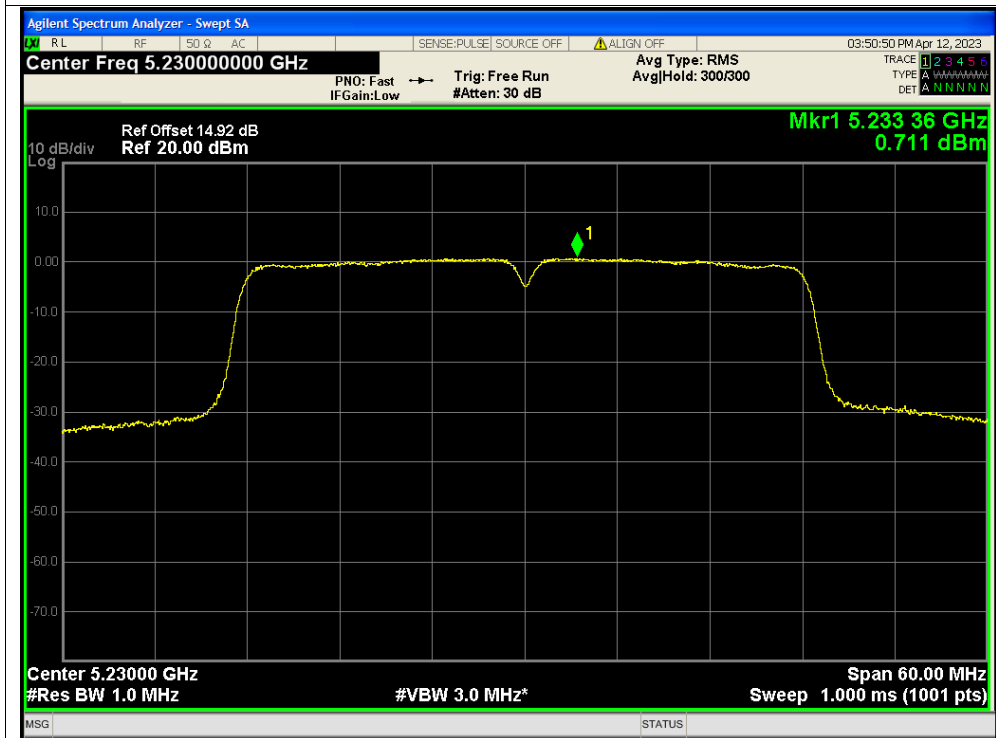


PSD NVNT ac40 5190MHz Ant1

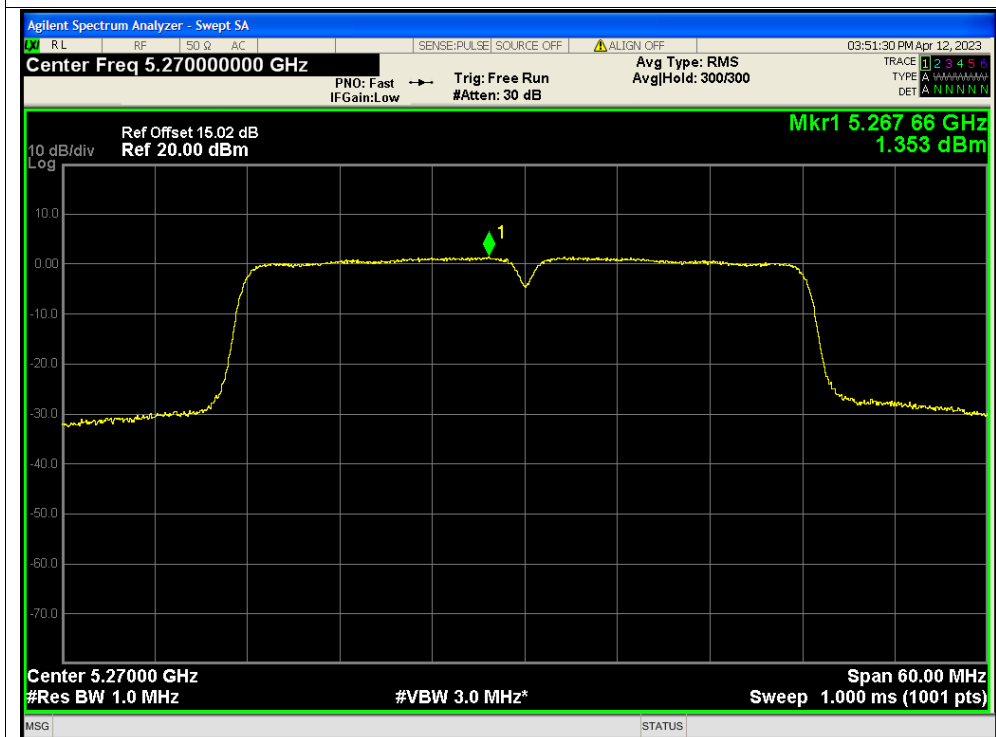




PSD NVNT ac40 5230MHz Ant1

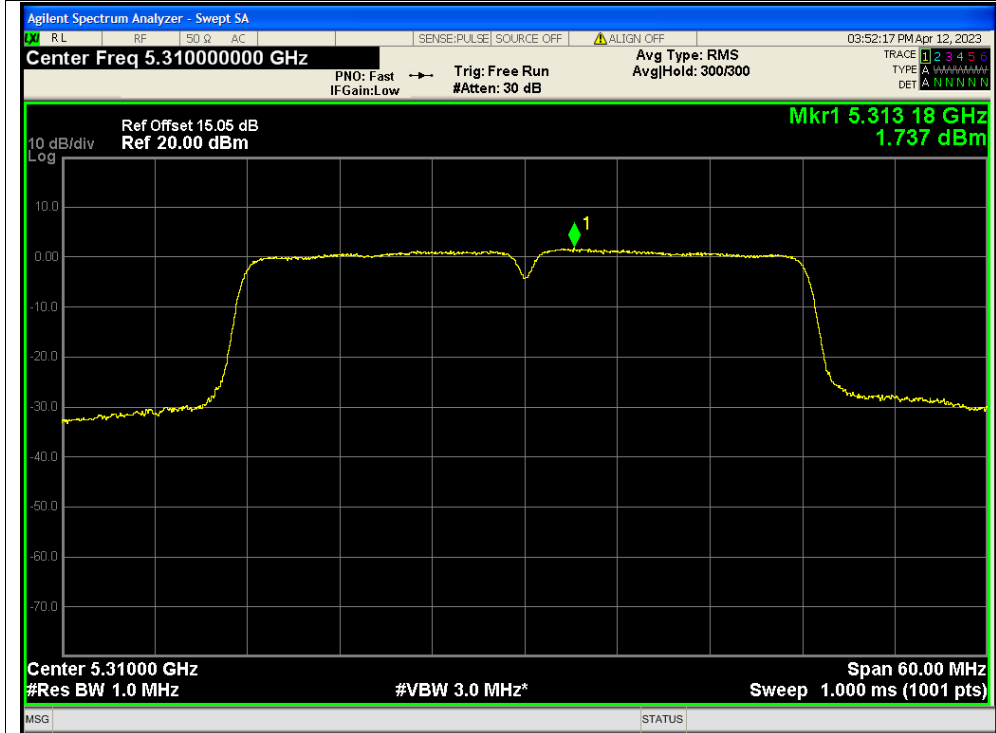


PSD NVNT ac40 5270MHz Ant1

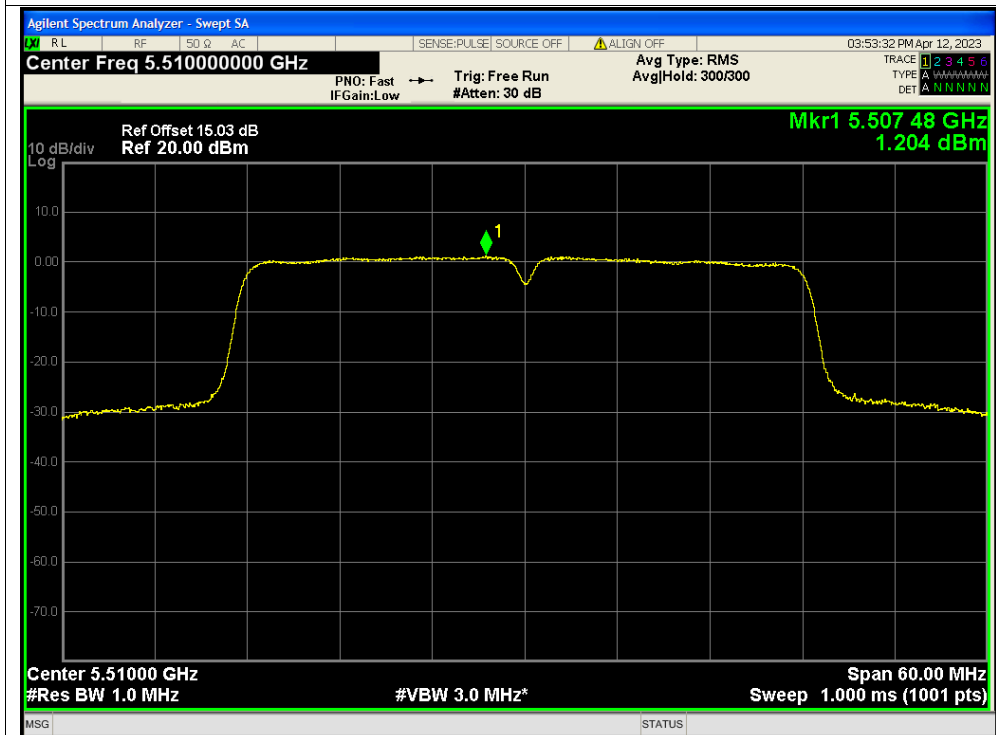


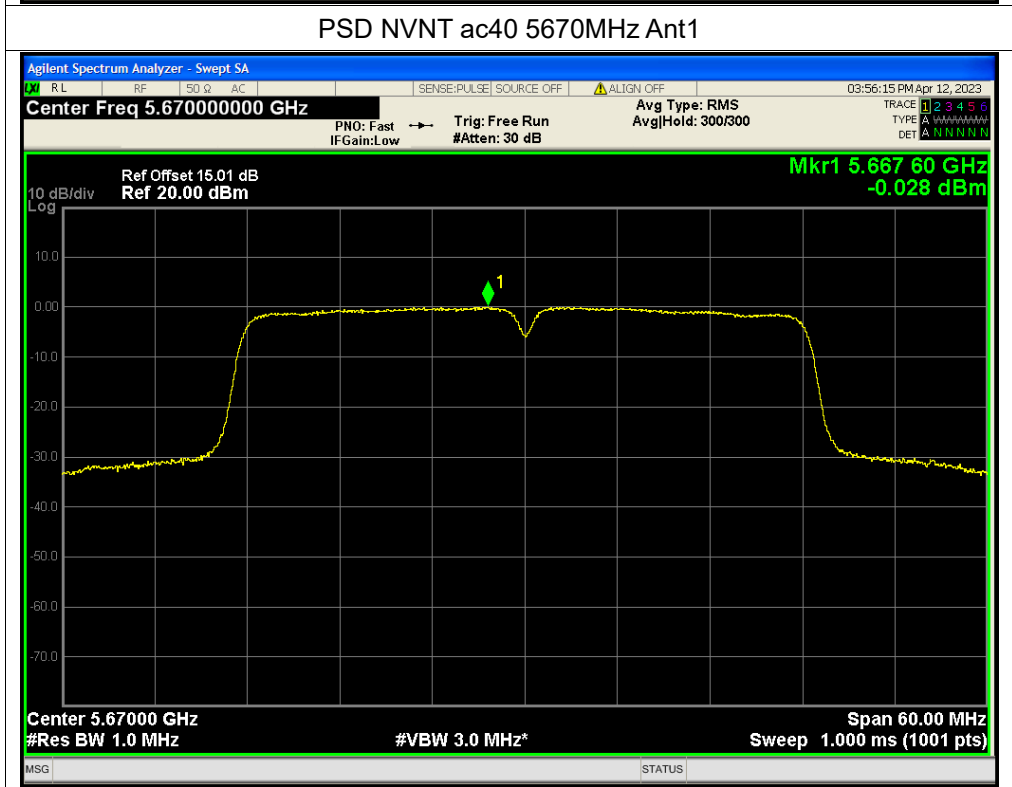
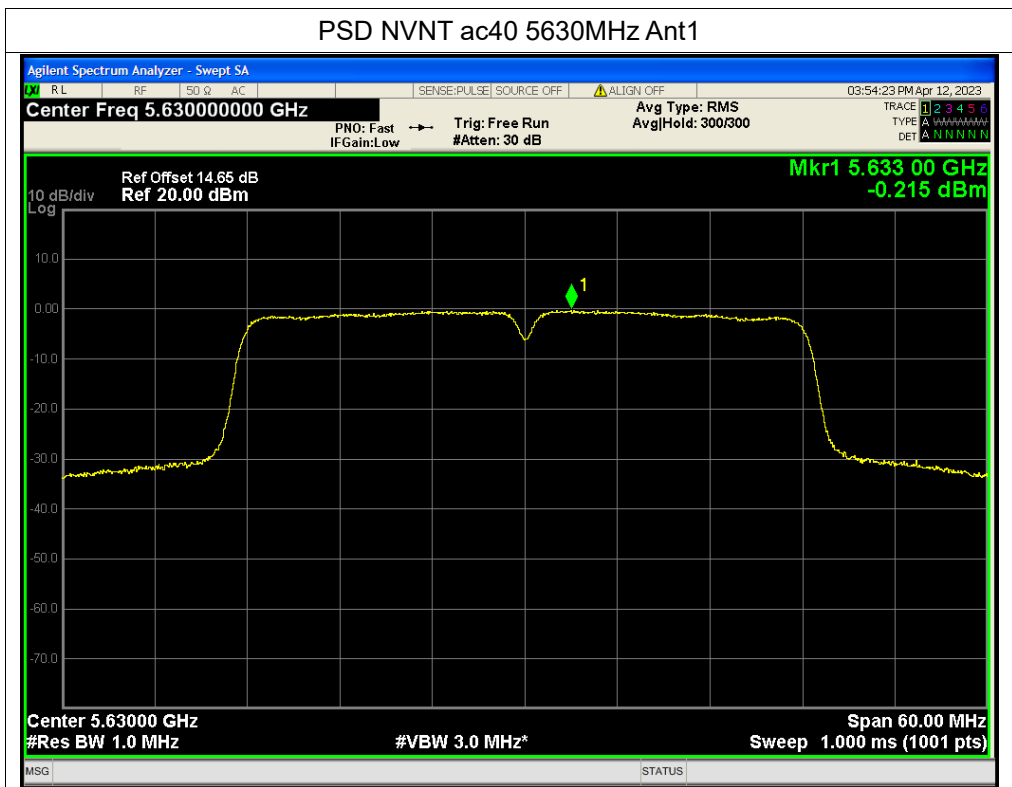


PSD NVNT ac40 5310MHz Ant1



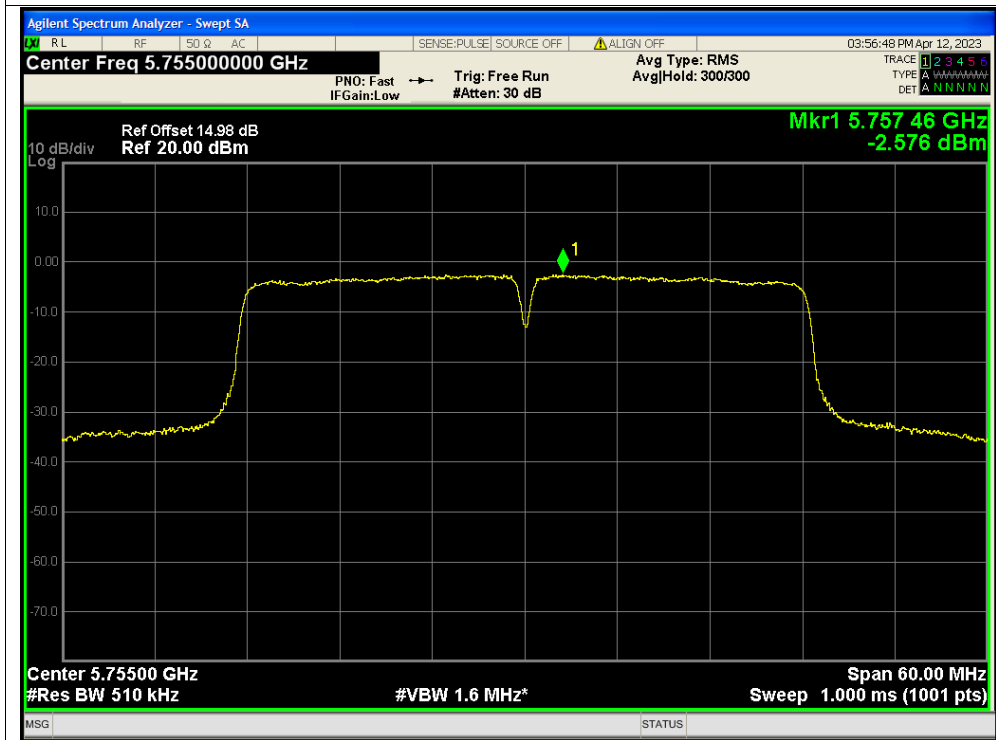
PSD NVNT ac40 5510MHz Ant1



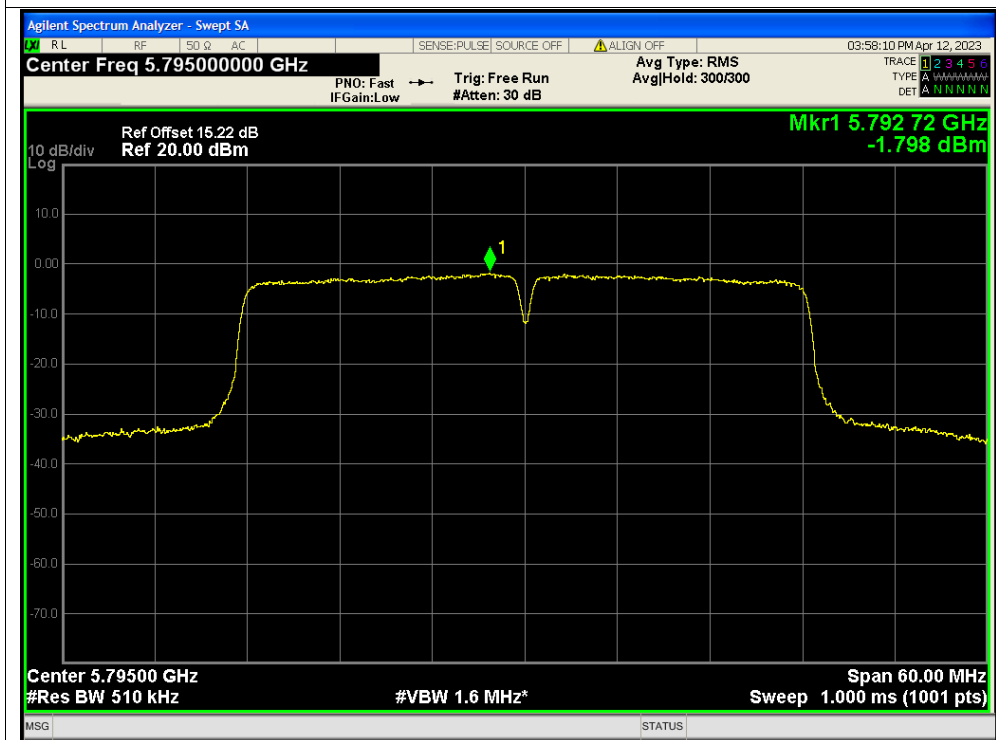




PSD NVNT ac40 5755MHz Ant1

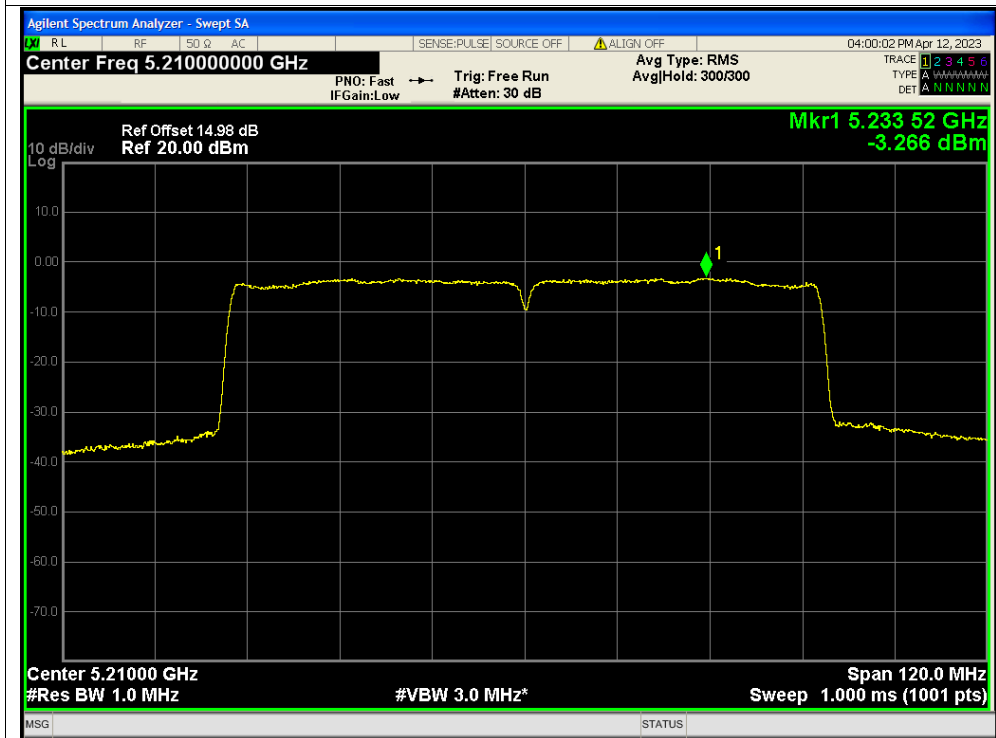


PSD NVNT ac40 5795MHz Ant1

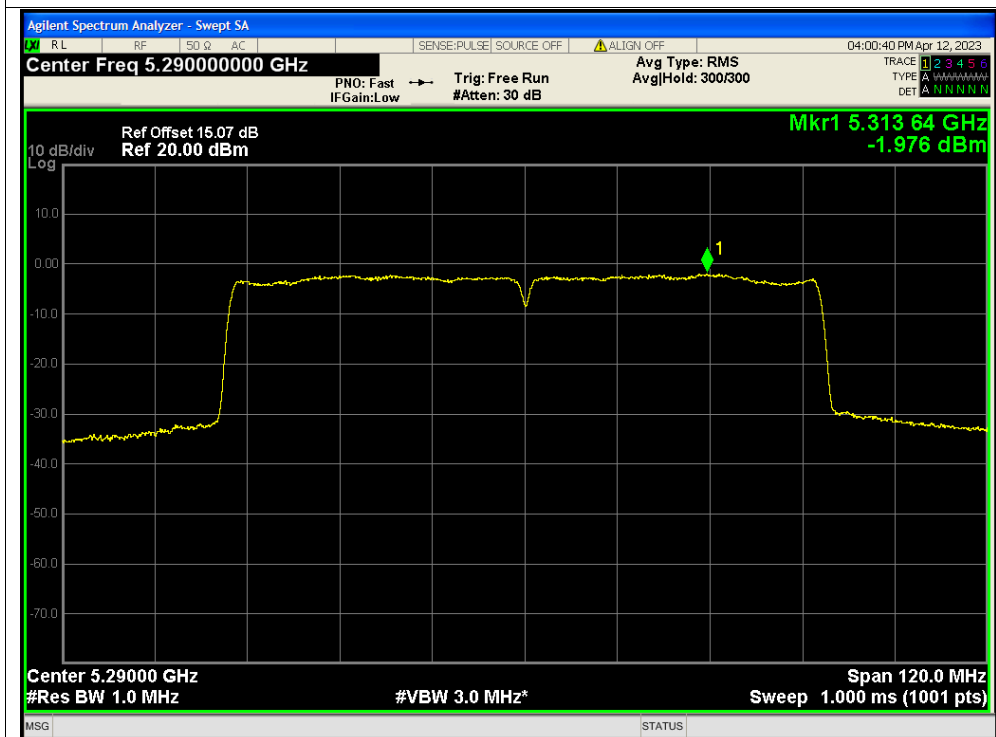




PSD NVNT ac80 5210MHz Ant1

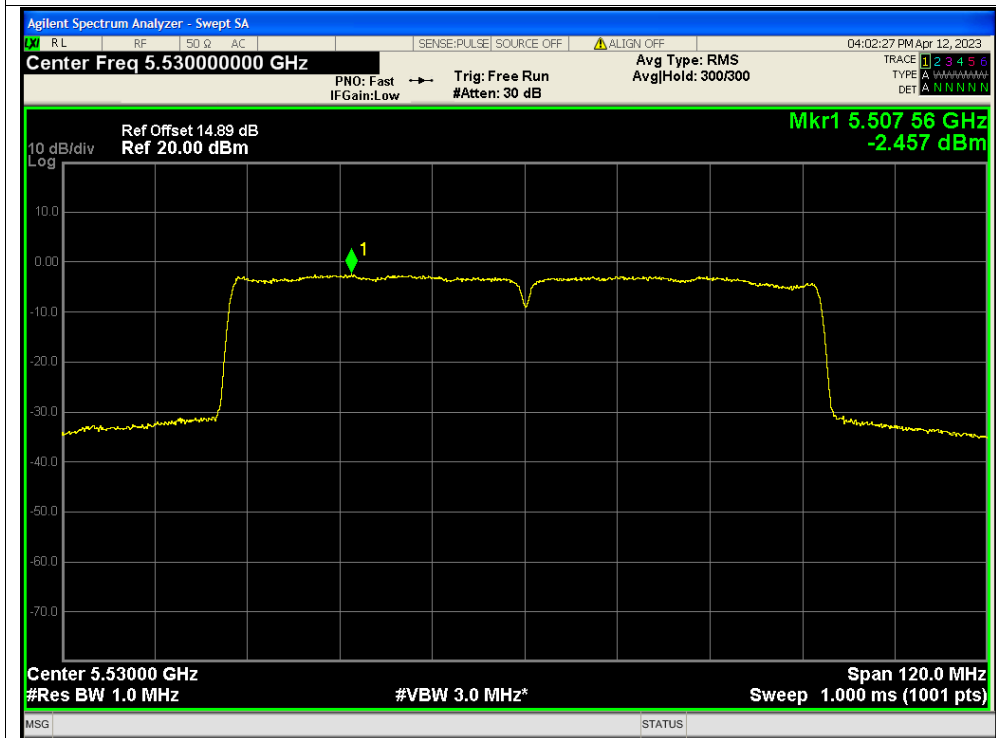


PSD NVNT ac80 5290MHz Ant1

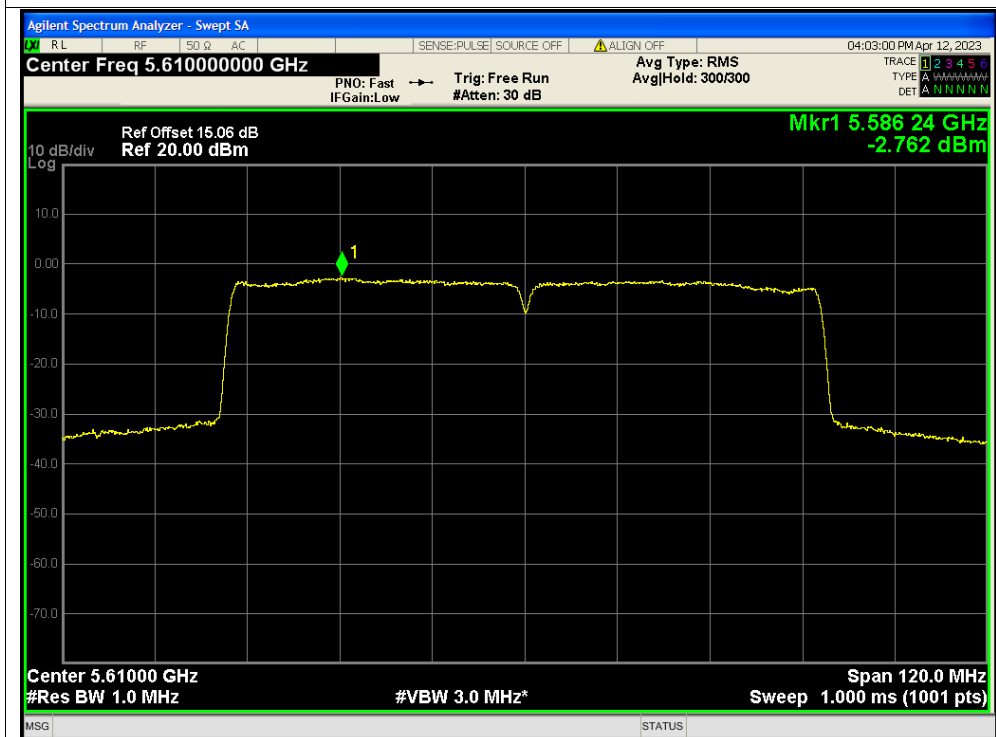




PSD NVNT ac80 5530MHz Ant1

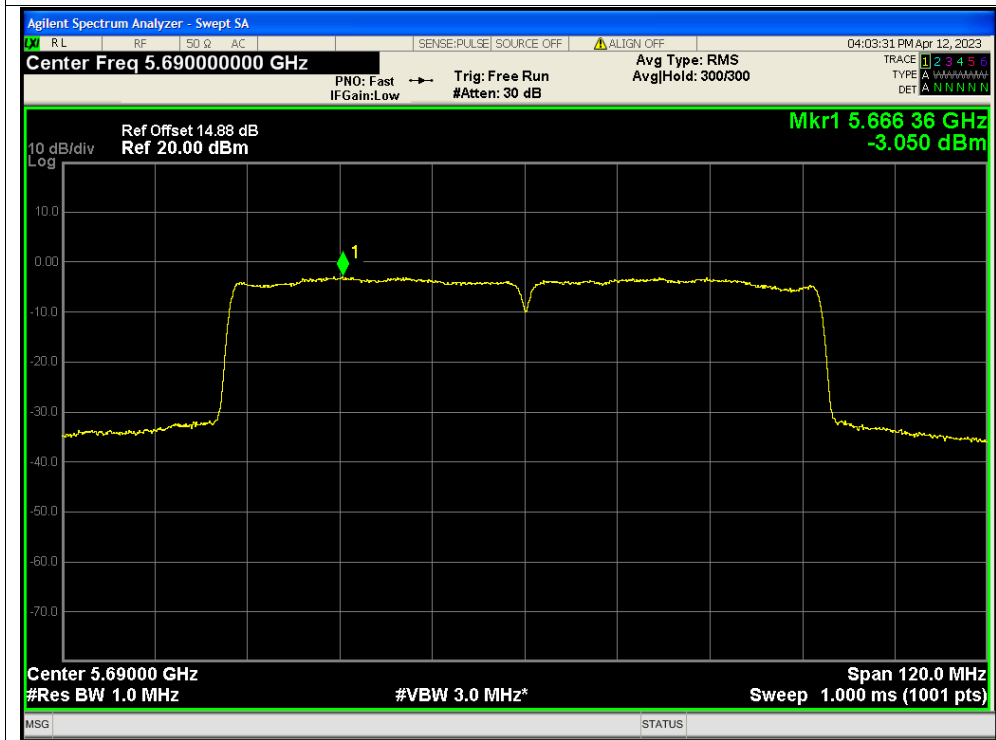


PSD NVNT ac80 5610MHz Ant1

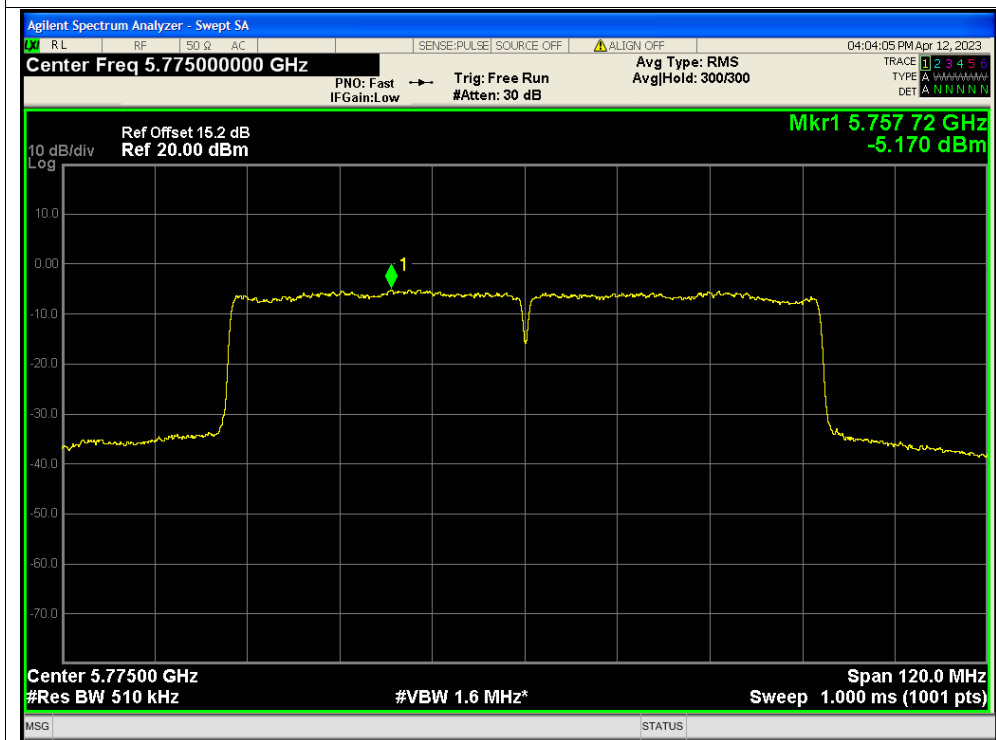




PSD NVNT ac80 5690MHz Ant1



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 3.4V	Carrier	5180	Ant1	5179.993	-7000	-1.35	25	Pass
20C 3.87V	Carrier	5180	Ant1	5179.992	-8000	-1.54	25	Pass
20C 4.45V	Carrier	5180	Ant1	5179.993	-7000	-1.35	25	Pass
0C 3.87V	Carrier	5180	Ant1	5179.993	-7000	-1.35	25	Pass
10C 3.87V	Carrier	5180	Ant1	5179.993	-7000	-1.35	25	Pass
30C 3.87V	Carrier	5180	Ant1	5179.992	-8000	-1.54	25	Pass
40C 3.87V	Carrier	5180	Ant1	5179.992	-8000	-1.54	25	Pass
50C 3.87V	Carrier	5180	Ant1	5179.992	-8000	-1.54	25	Pass
20C 3.4V	Carrier	5260	Ant1	5259.99	-10000	-1.90	25	Pass
20C 3.87V	Carrier	5260	Ant1	5259.989	-11000	-2.09	25	Pass
20C 4.45V	Carrier	5260	Ant1	5259.99	-10000	-1.90	25	Pass
0C 3.87V	Carrier	5260	Ant1	5259.989	-11000	-2.09	25	Pass
10C 3.87V	Carrier	5260	Ant1	5259.989	-11000	-2.09	25	Pass
30C 3.87V	Carrier	5260	Ant1	5259.989	-11000	-2.09	25	Pass
40C 3.87V	Carrier	5260	Ant1	5259.989	-11000	-2.09	25	Pass
50C 3.87V	Carrier	5260	Ant1	5259.989	-11000	-2.09	25	Pass
20C 3.4V	Carrier	5500	Ant1	5499.988	-12000	-2.18	25	Pass
20C 3.87V	Carrier	5500	Ant1	5499.988	-12000	-2.18	25	Pass
20C 4.45V	Carrier	5500	Ant1	5499.988	-12000	-2.18	25	Pass
0C 3.87V	Carrier	5500	Ant1	5499.988	-12000	-2.18	25	Pass
10C 3.87V	Carrier	5500	Ant1	5499.988	-12000	-2.18	25	Pass
30C 3.87V	Carrier	5500	Ant1	5499.988	-12000	-2.18	25	Pass
40C 3.87V	Carrier	5500	Ant1	5499.988	-12000	-2.18	25	Pass
50C 3.87V	Carrier	5500	Ant1	5499.988	-12000	-2.18	25	Pass
20C 3.4V	Carrier	5745	Ant1	5744.988	-12000	-2.09	25	Pass
20C 3.87V	Carrier	5745	Ant1	5744.988	-12000	-2.09	25	Pass
20C 4.45V	Carrier	5745	Ant1	5744.988	-12000	-2.09	25	Pass
0C 3.87V	Carrier	5745	Ant1	5744.988	-12000	-2.09	25	Pass
10C 3.87V	Carrier	5745	Ant1	5744.988	-12000	-2.09	25	Pass
30C 3.87V	Carrier	5745	Ant1	5744.988	-12000	-2.09	25	Pass
40C 3.87V	Carrier	5745	Ant1	5744.988	-12000	-2.09	25	Pass
50C 3.87V	Carrier	5745	Ant1	5744.988	-12000	-2.09	25	Pass



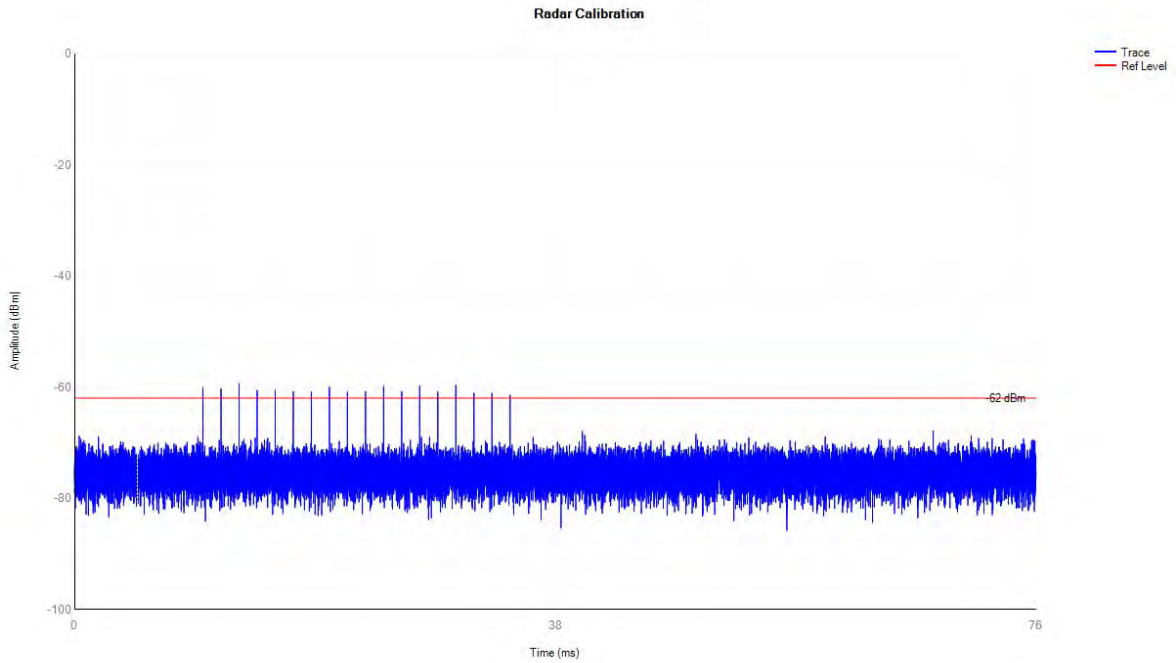
### A.6. Dynamic Frequency Selection

#### Detection Thresholds

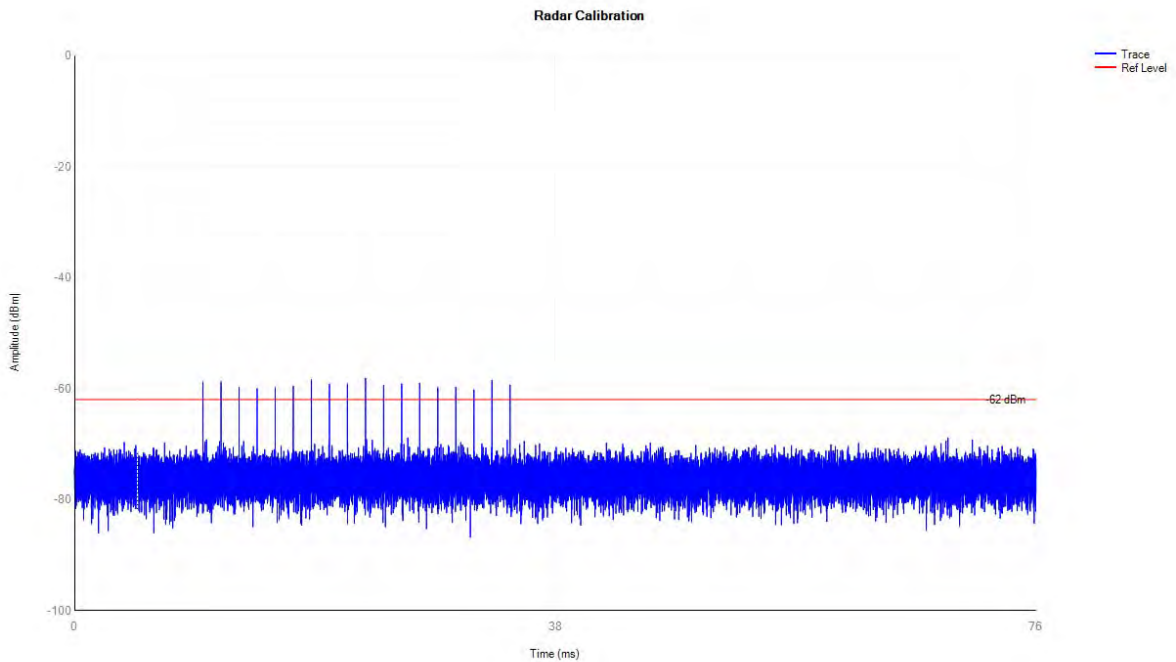
Mode	Frequency (MHz)	Type	Result	Verdict
a	5320	DFS_FCC_T0	See test Graph	Pass
a	5500	DFS_FCC_T0	See test Graph	Pass
ac80	5290	DFS_FCC_T0	See test Graph	Pass
ac80	5530	DFS_FCC_T0	See test Graph	Pass

Test Graphs

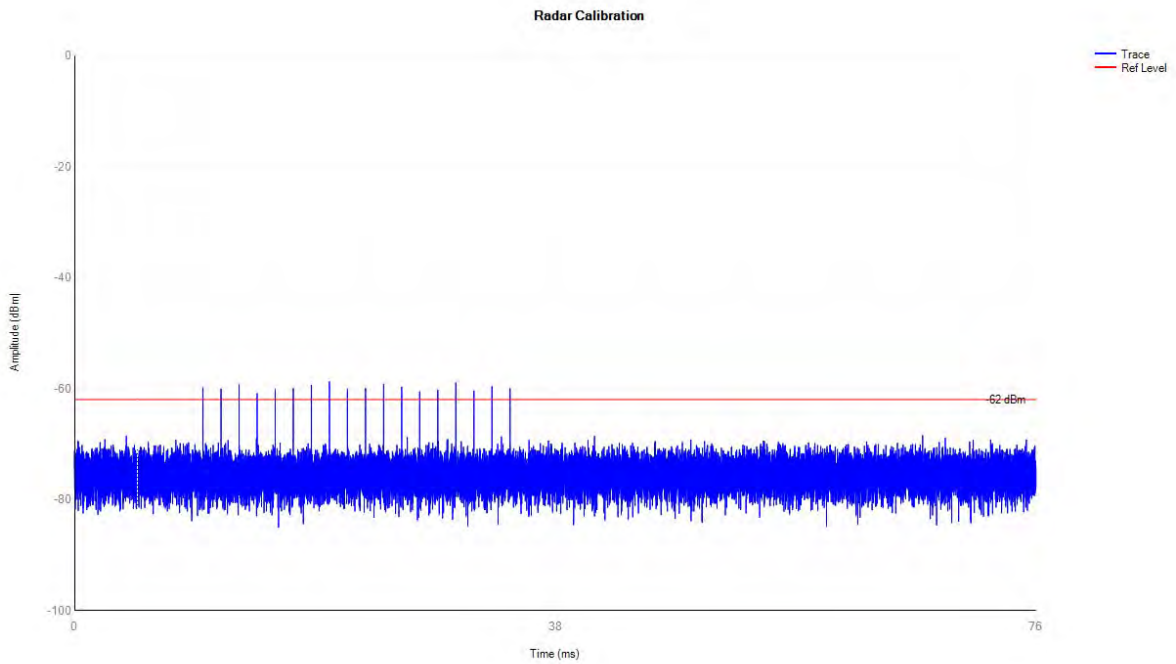
5320MHz DFS\_FCC\_T0



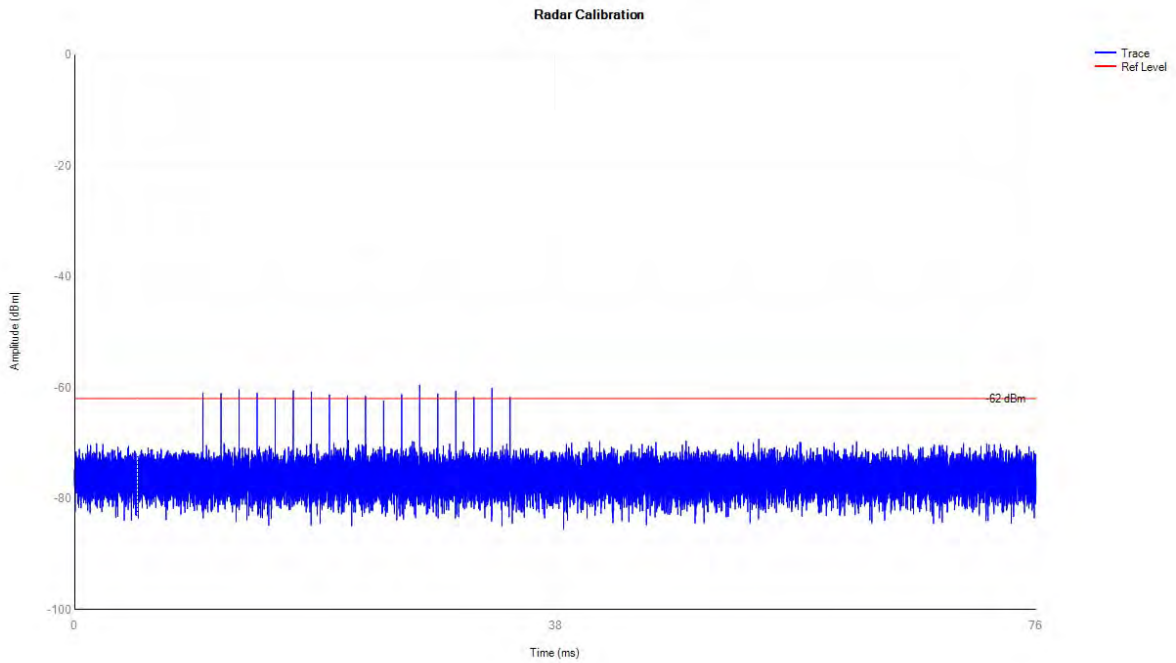
5500MHz DFS\_FCC\_T0



5290MHz DFS\_FCC\_T0



5530MHz DFS\_FCC\_T0



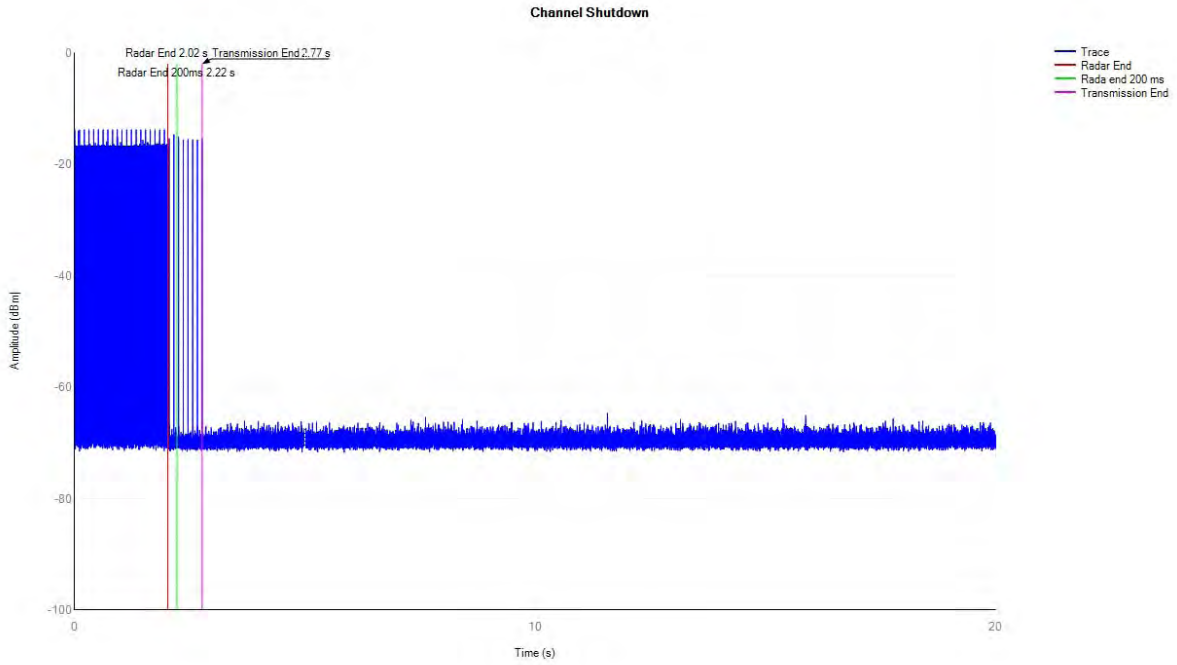


## Channel Move Time and Channel Closing Transmission Time

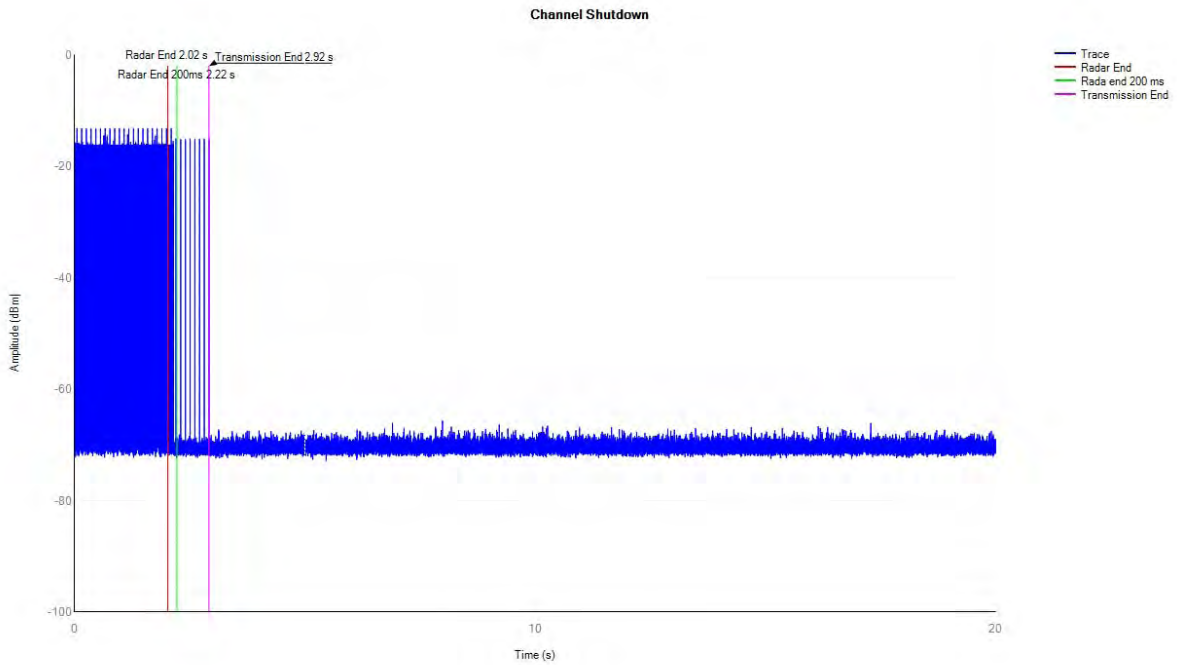
Mode	Frequency (MHz)	Channel Move Time (s)	Limit Channel Move Time (s)	Close Transmission Time (s)	Limit Close Transmission Time (s)	Close Transmission Time after 200ms(s)	Limit Close Transmission Time after 200ms (s)	Verdict
a	5320	0.748	10	0.015	0.26	0.007	0.06	Pass
a	5500	0.896	10	0.097	0.26	0.008	0.06	Pass
ac80	5290	0.827	10	0.05	0.26	0.009	0.06	Pass
ac80	5530	0.79	10	0.038	0.26	0.007	0.06	Pass

Test Graphs

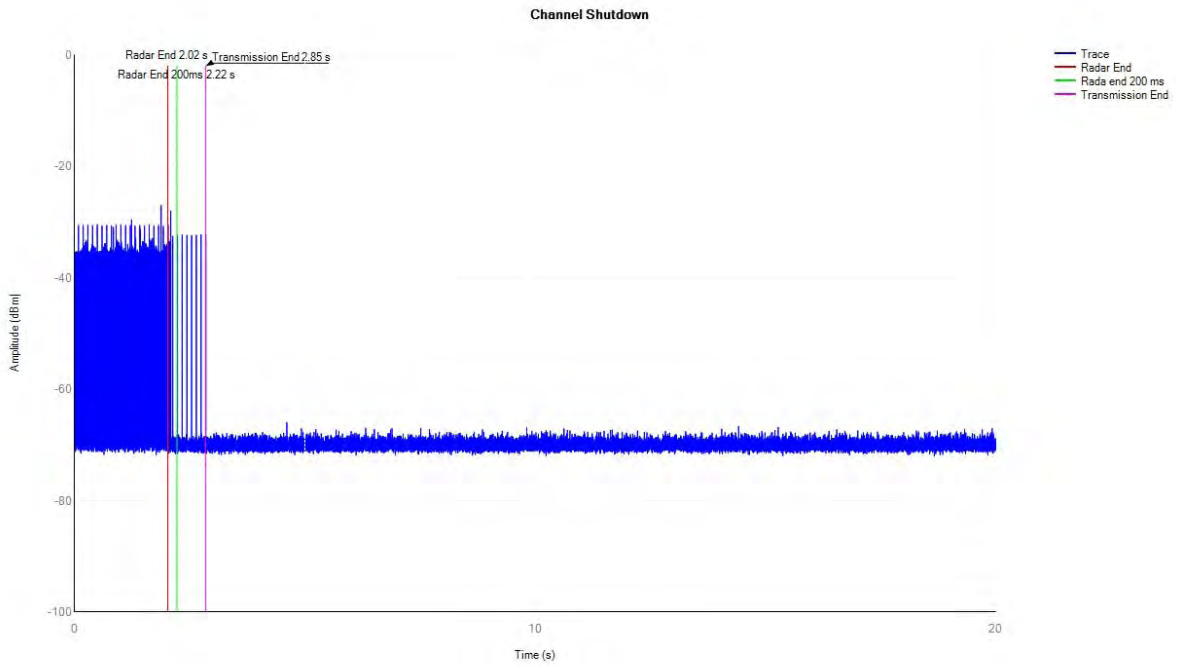
a 5320MHz Shutdown



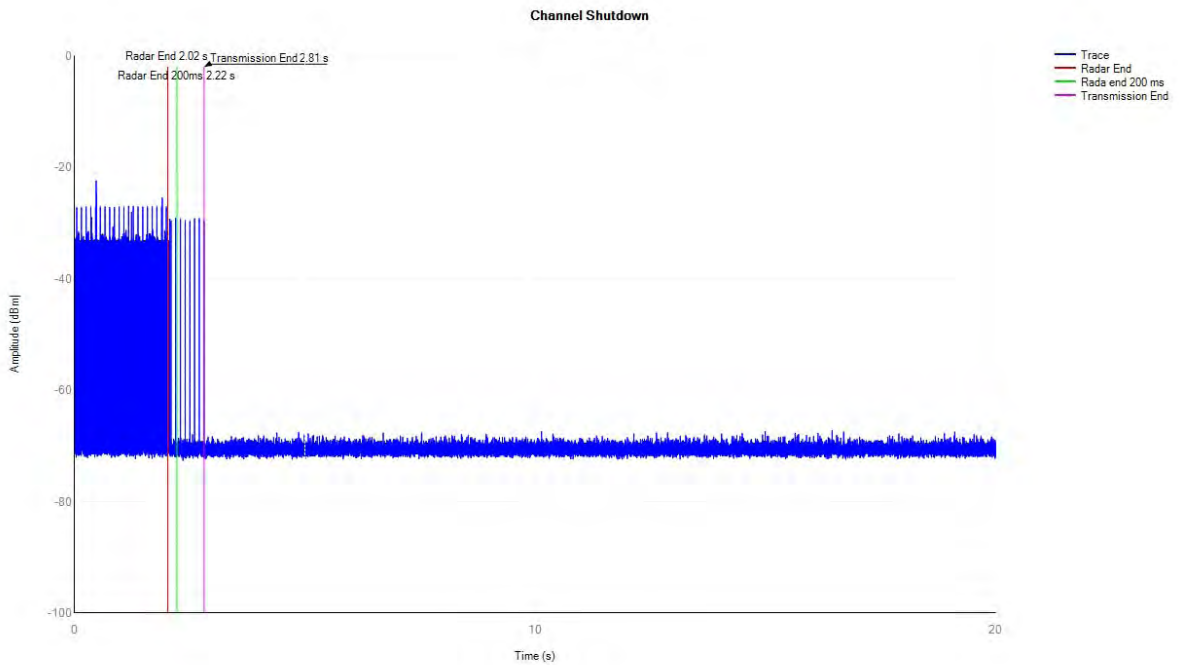
a 5500MHz Shutdown



### ac80 5290MHz Shutdown



### ac80 5530MHz Shutdown





REPORT No.: SZ23040012W05

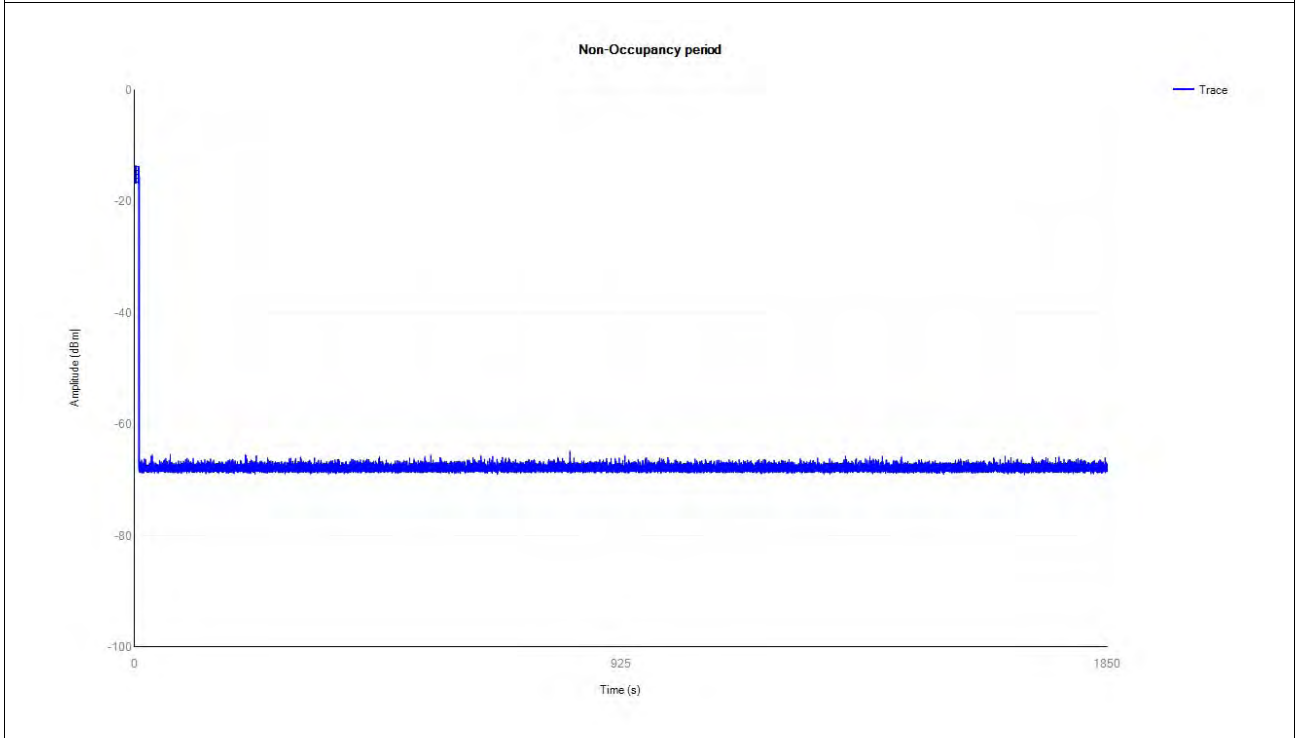
Non-Occupancy Period

Mode	Frequency (MHz)	Result	Verdict
a	5320	See test Graph	Pass
a	5500	See test Graph	Pass

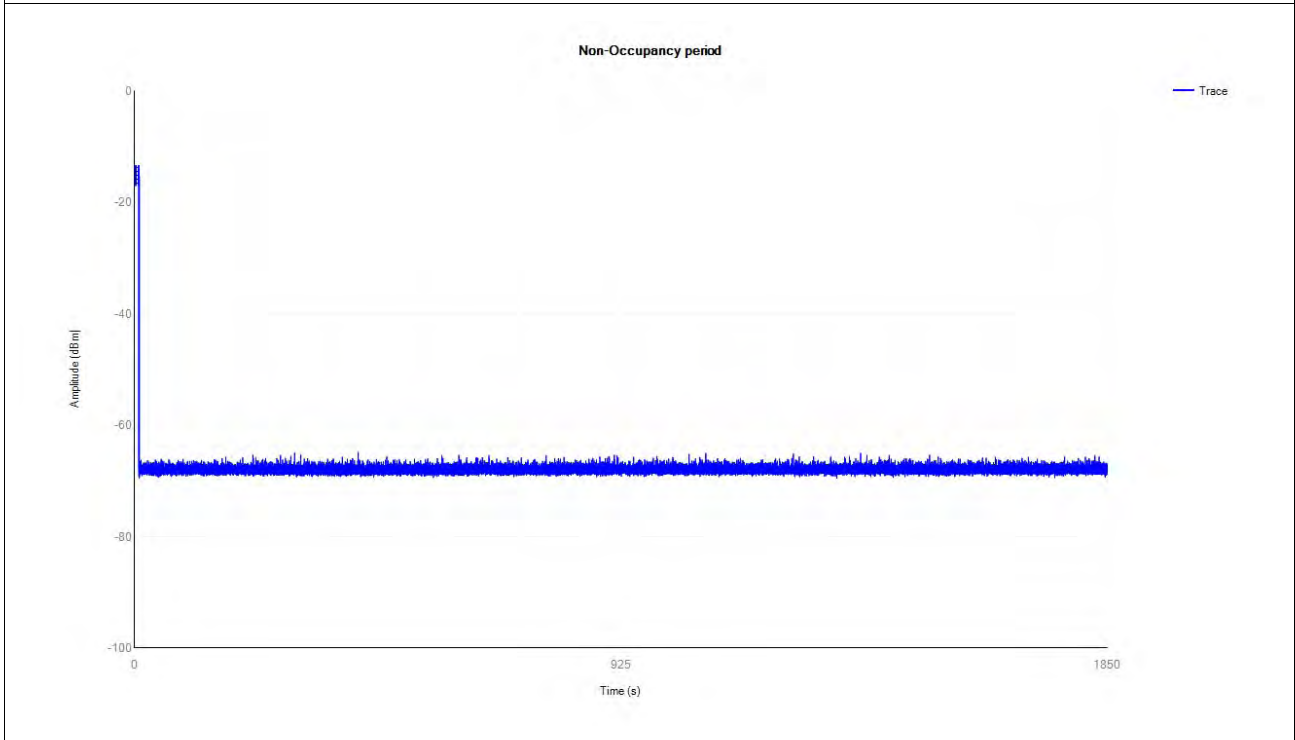


Test Graphs

a 5320MHz Non-Occupancy



a 5500MHz Non-Occupancy





### 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

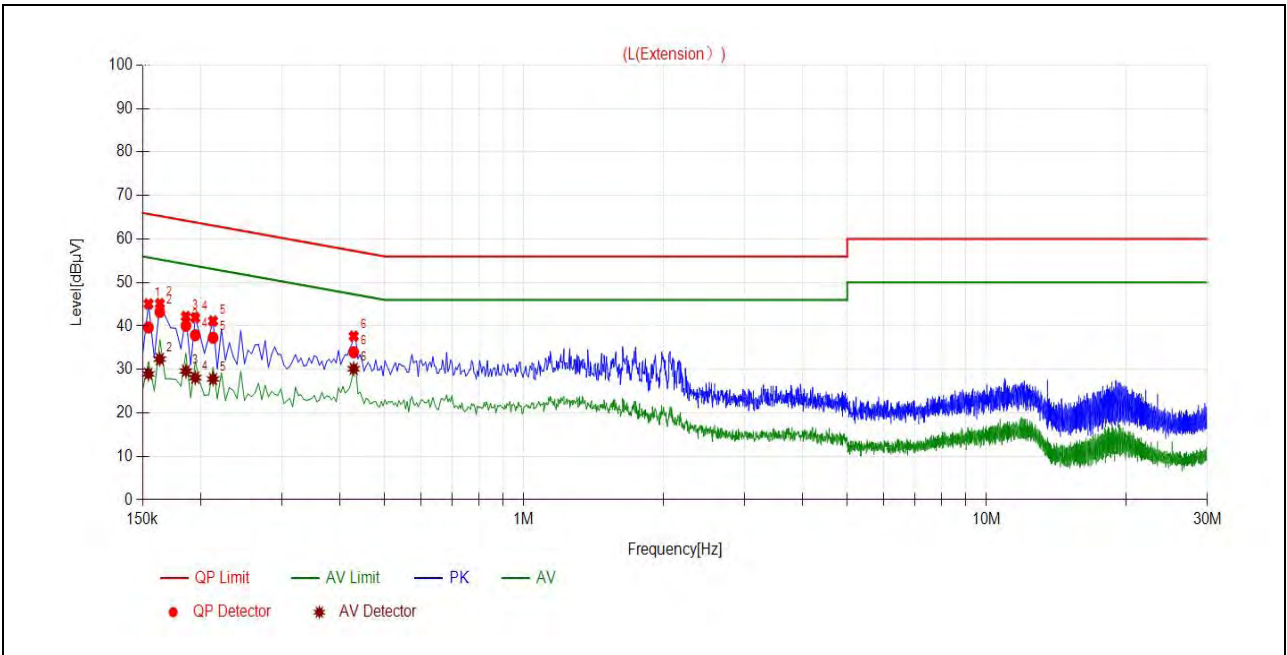
The measurement results are obtained as below:

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

$U_R$ : Receiver Reading

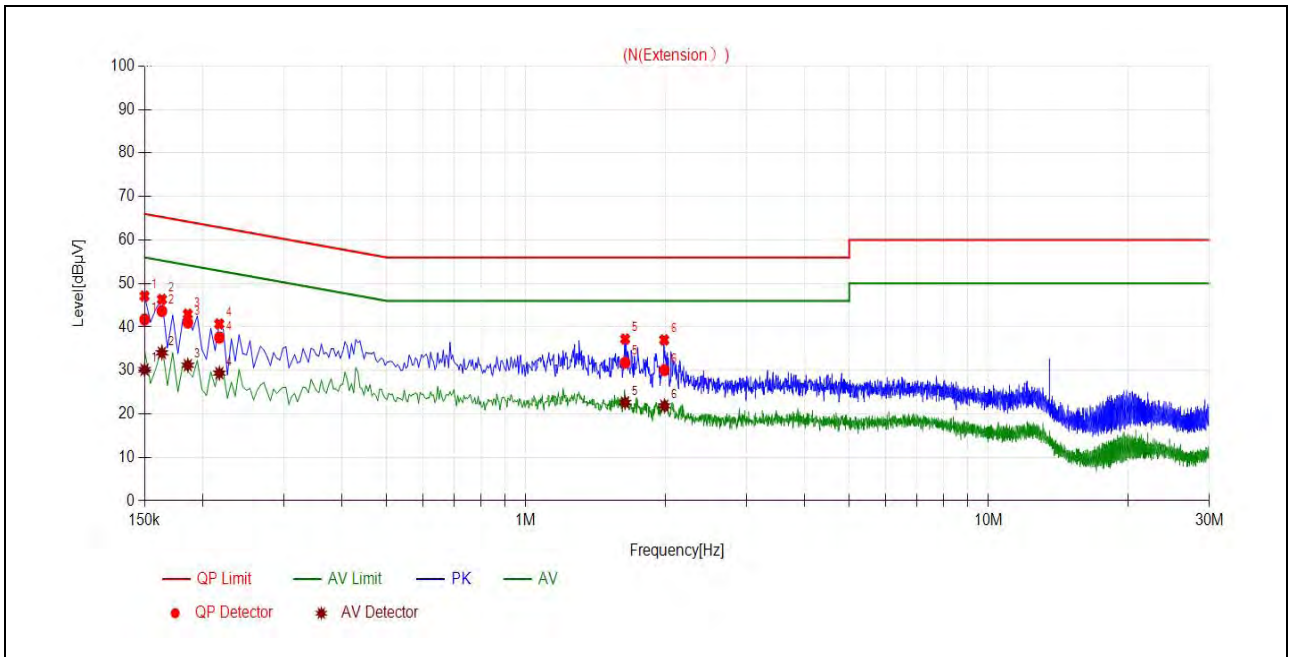
$A_{\text{Factor}}$ : Voltage division factor of LISN

**B. Test Plot:**



(L Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1544	39.67	28.97	65.76	55.76	Line	PASS
2	0.1634	43.24	32.36	65.29	55.29		PASS
3	0.1861	40.03	29.63	64.21	54.21		PASS
4	0.1949	37.86	28.11	63.83	53.83		PASS
5	0.2130	37.29	27.80	63.09	53.09		PASS
6	0.4289	33.95	30.15	57.27	47.27		PASS



(N Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1500	41.71	30.16	66.00	56.00	Neutral	PASS
2	0.1635	43.66	34.04	65.28	55.28		PASS
3	0.1860	40.99	31.19	64.21	54.21		PASS
4	0.2176	37.55	29.37	62.91	52.91		PASS
5	1.6385	31.80	22.60	56.00	46.00		PASS
6	1.9922	30.06	21.83	56.00	46.00		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

$G_{\text{preamp}}$ : Preamplifier Gain

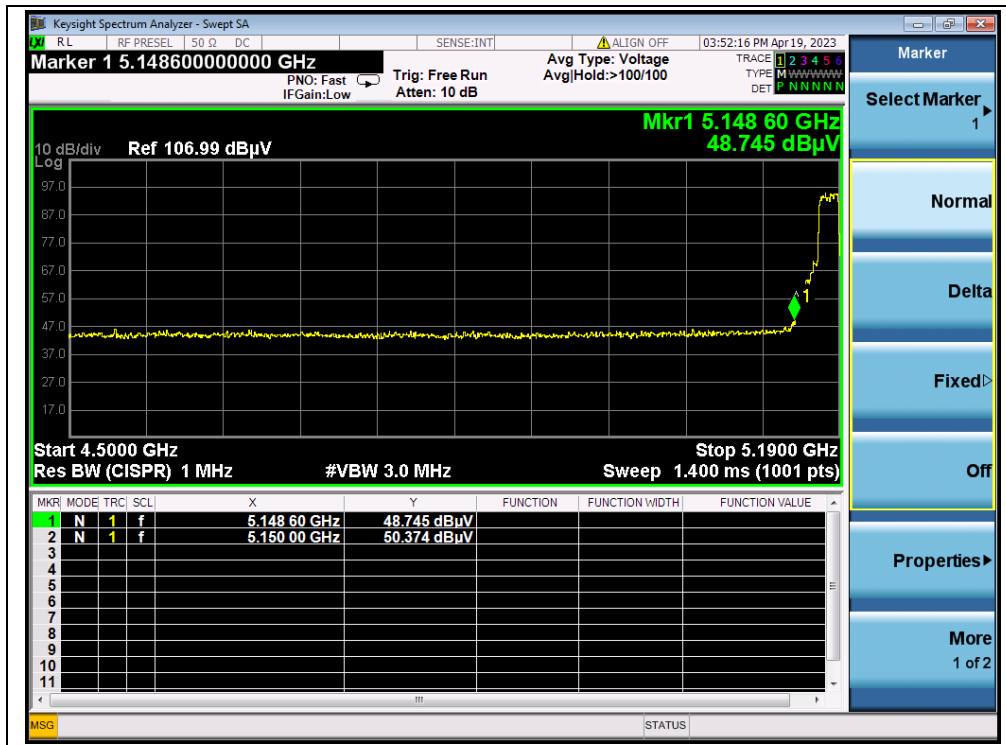
$A_{\text{Factor}}$ : Antenna Factor at 3m

**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.

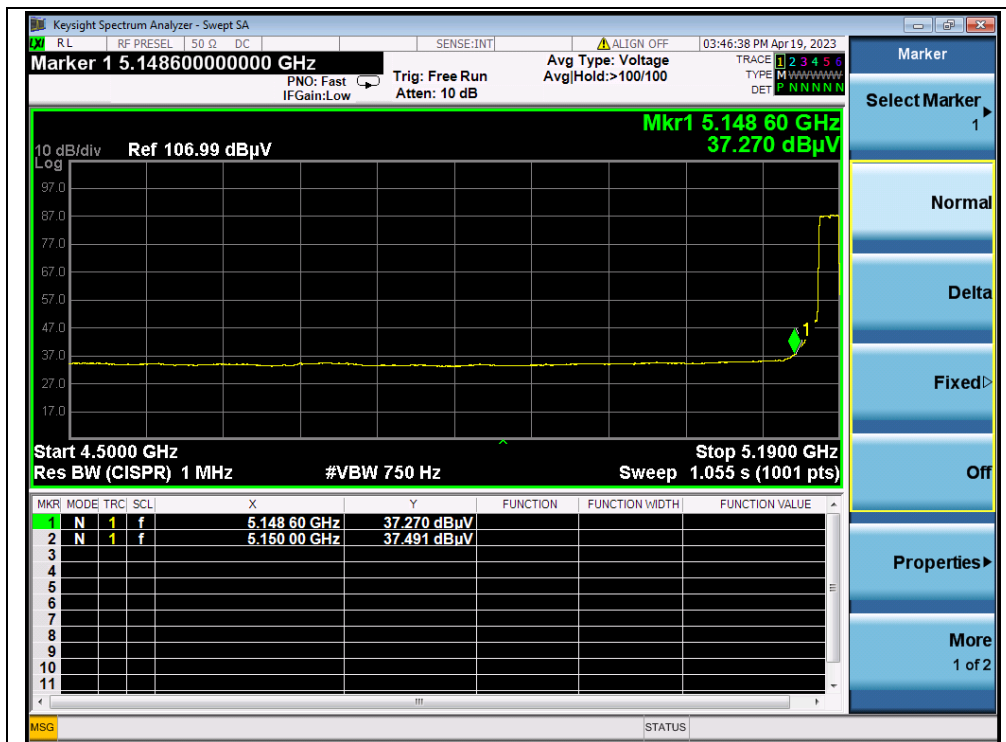
**Note 2:** All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.

#### 802.11a Mode

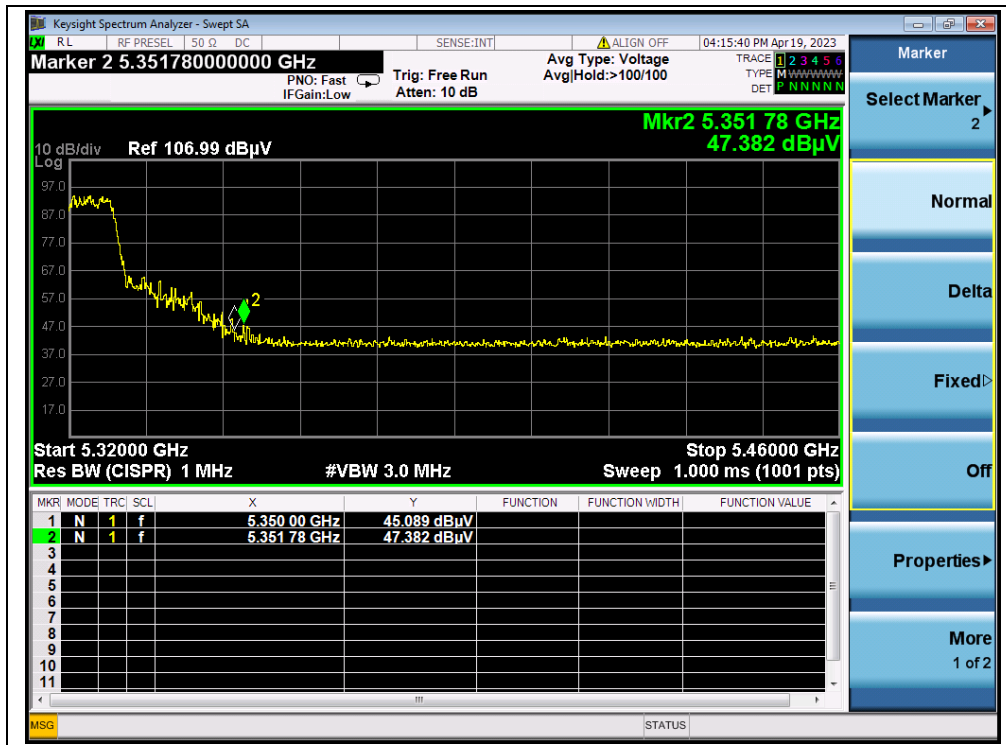
Channel	Frequency (MHz)	Detector	Receiver Reading	$A_T$ (dB)	$A_{\text{Factor}}$ (dB@3m)	Max. Emission E (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Verdict
		PK/ AV	$U_R$ (dB $\mu$ V)					
36	5150.00	PK	50.37	-19.54	32.20	63.03	74	PASS
36	5150.00	AV	37.49	-19.54	32.20	50.15	54	PASS
64	5351.78	PK	47.38	-18.80	32.20	60.78	74	PASS
64	5350.00	AV	36.44	-18.80	32.20	49.84	54	PASS
100	5467.67	PK	49.23	-19.20	32.20	62.23	68.23	PASS
100	5460.00	AV	37.45	-19.20	32.20	50.45	54	PASS
140	5725.50	PK	52.30	-19.20	32.20	65.30	68.23	PASS
149	5725.00	PK	60.55	-19.01	32.20	73.74	122.23	PASS
165	5850.00	PK	51.80	-19.01	32.20	64.99	122.23	PASS



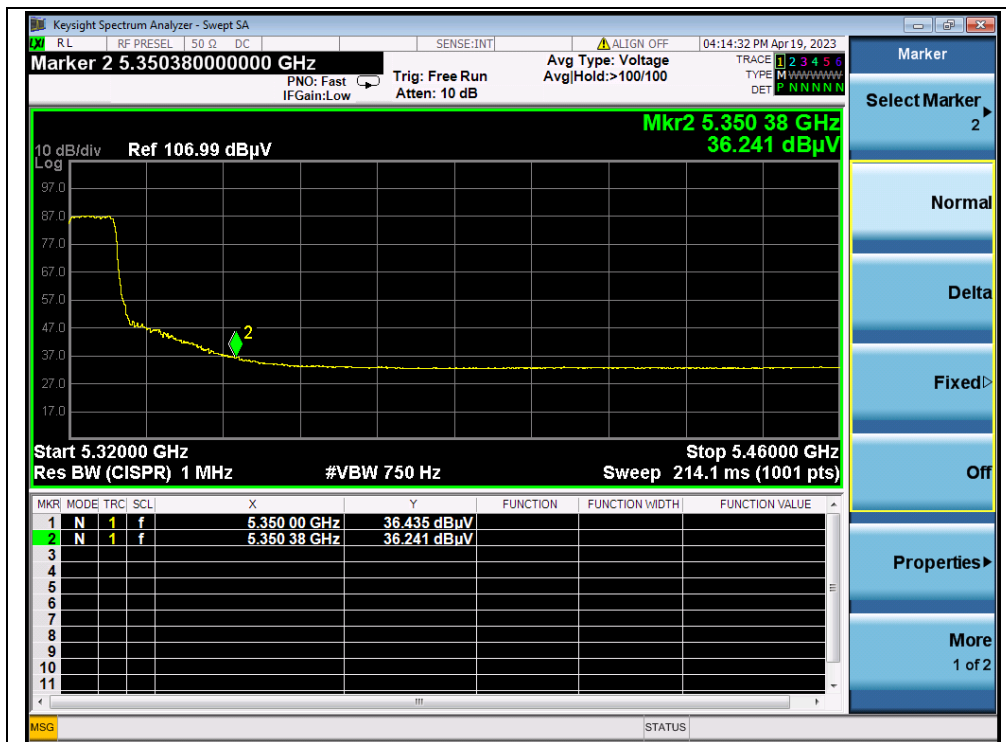
(PEAK, Channel 36, 802.11a)



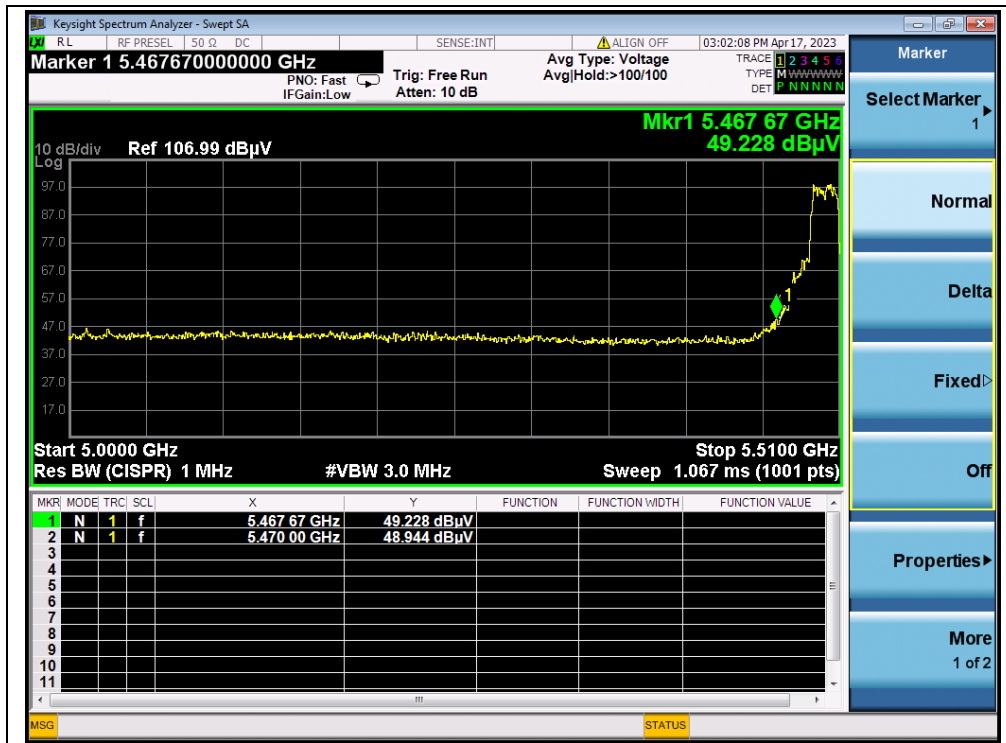
(AVERAGE, Channel 36, 802.11a)



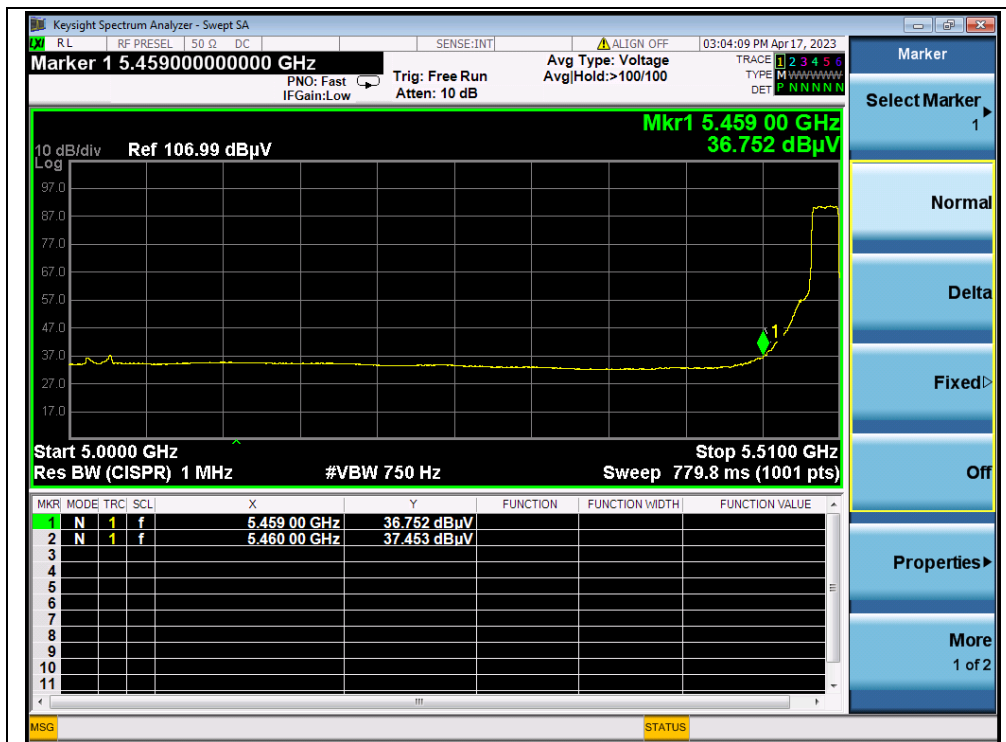
(PEAK, Channel 64, 802.11a)



(AVERAGE, Channel 64, 802.11a)

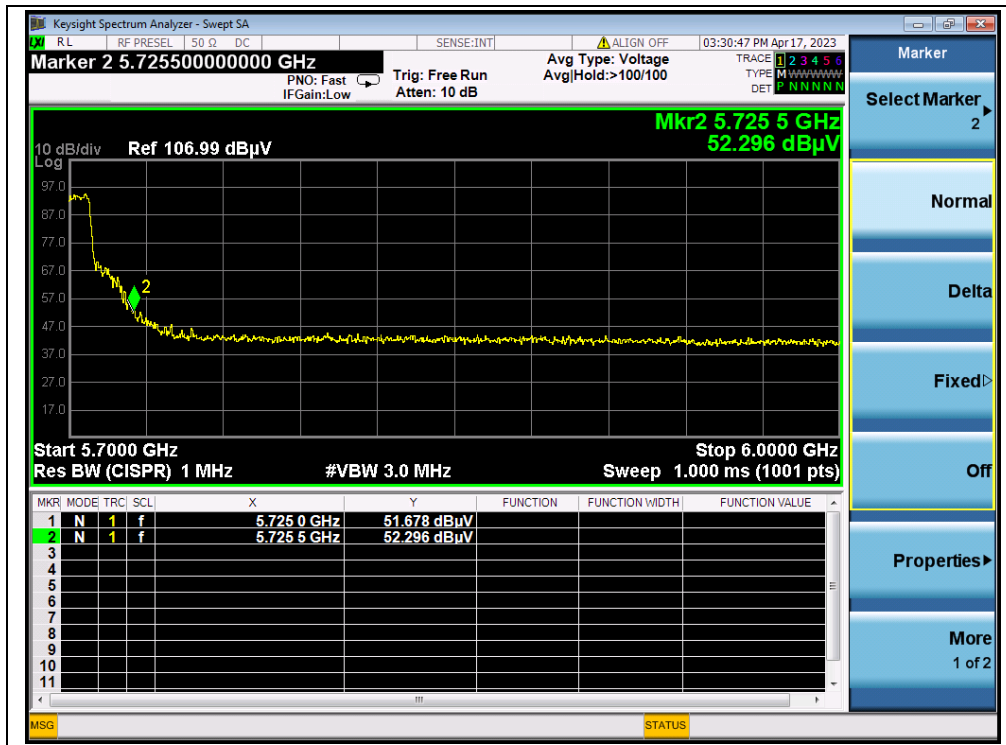


(PEAK, Channel 100, 802.11a)

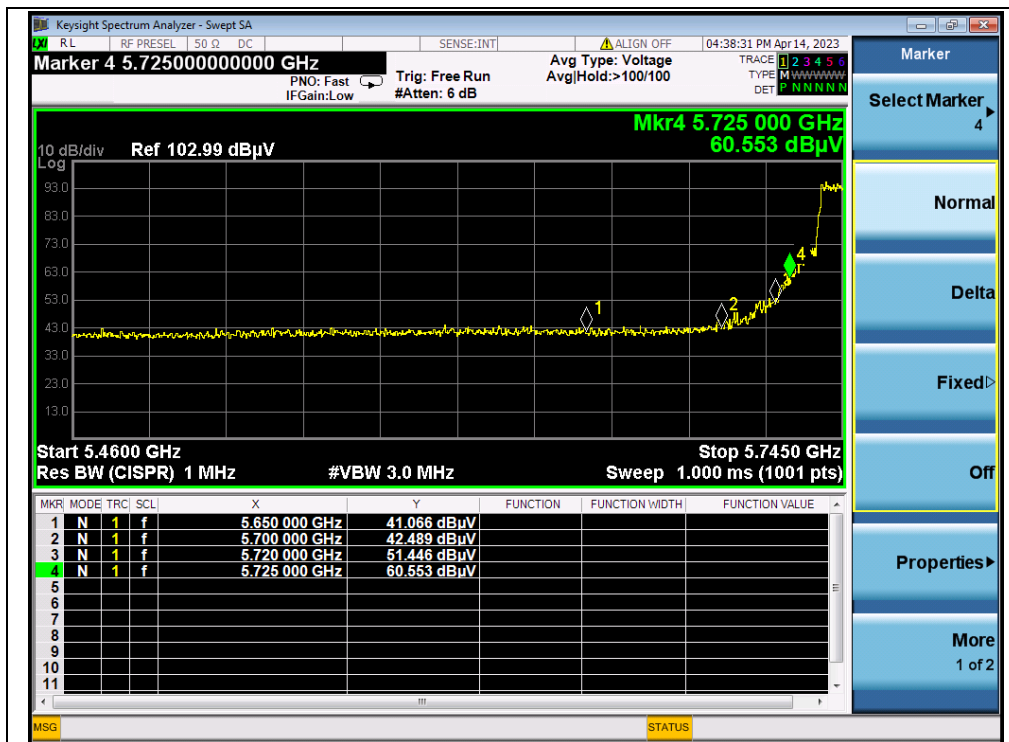


(AVERAGE, Channel 100, 802.11a)

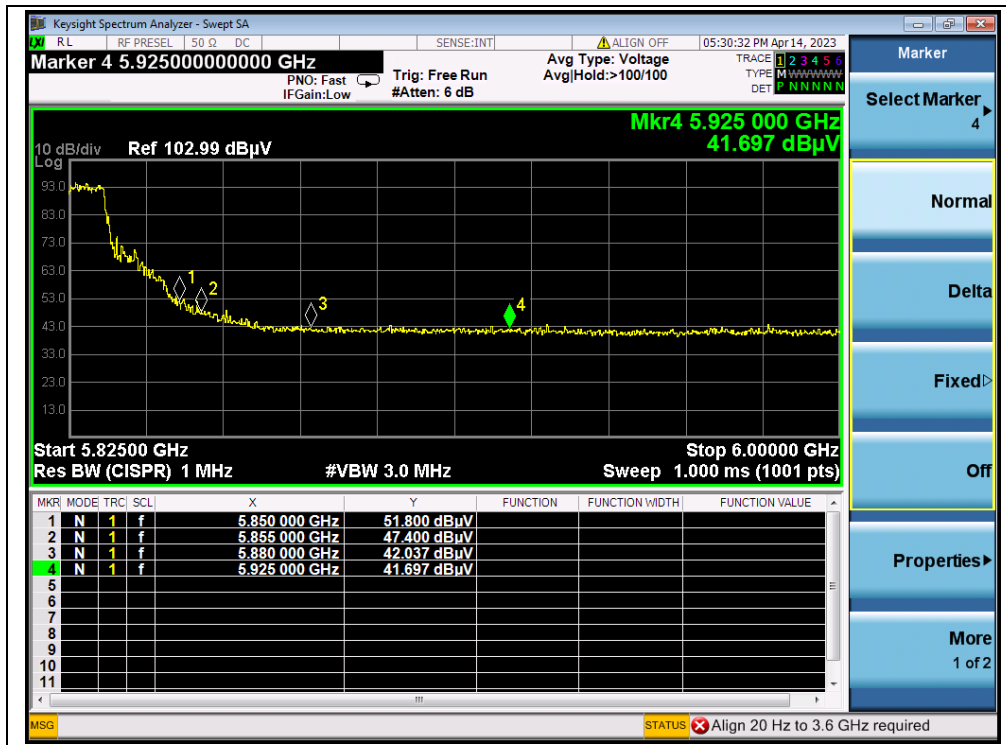




(PEAK, Channel 140, 802.11a)



(PEAK, Channel 149, 802.11a)

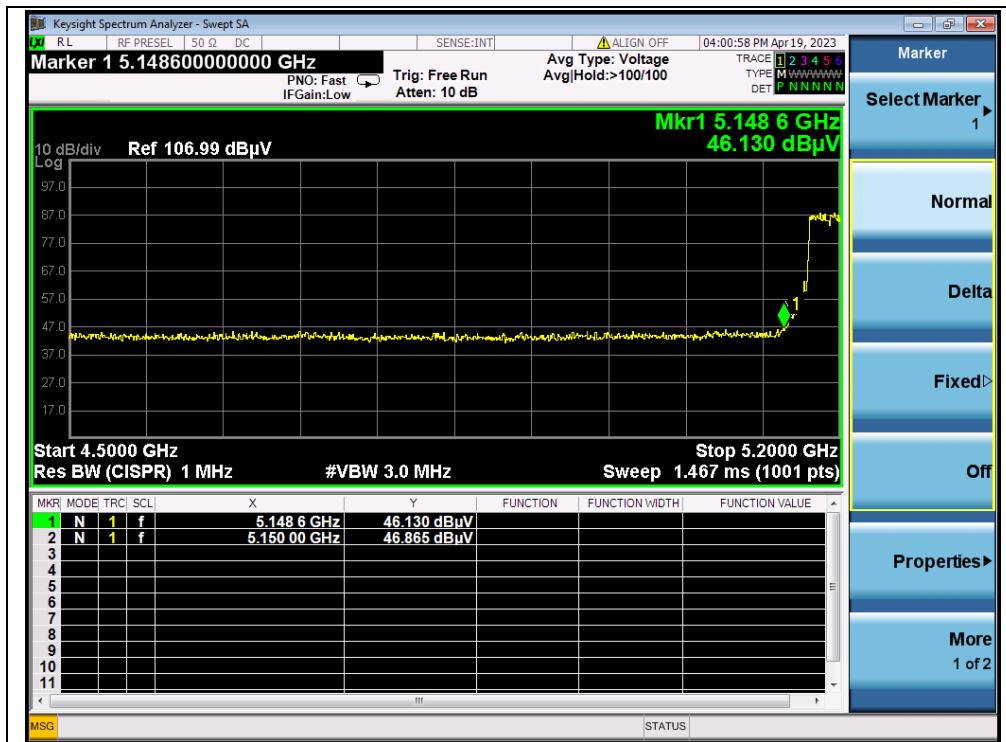


(PEAK, Channel 165, 802.11a)

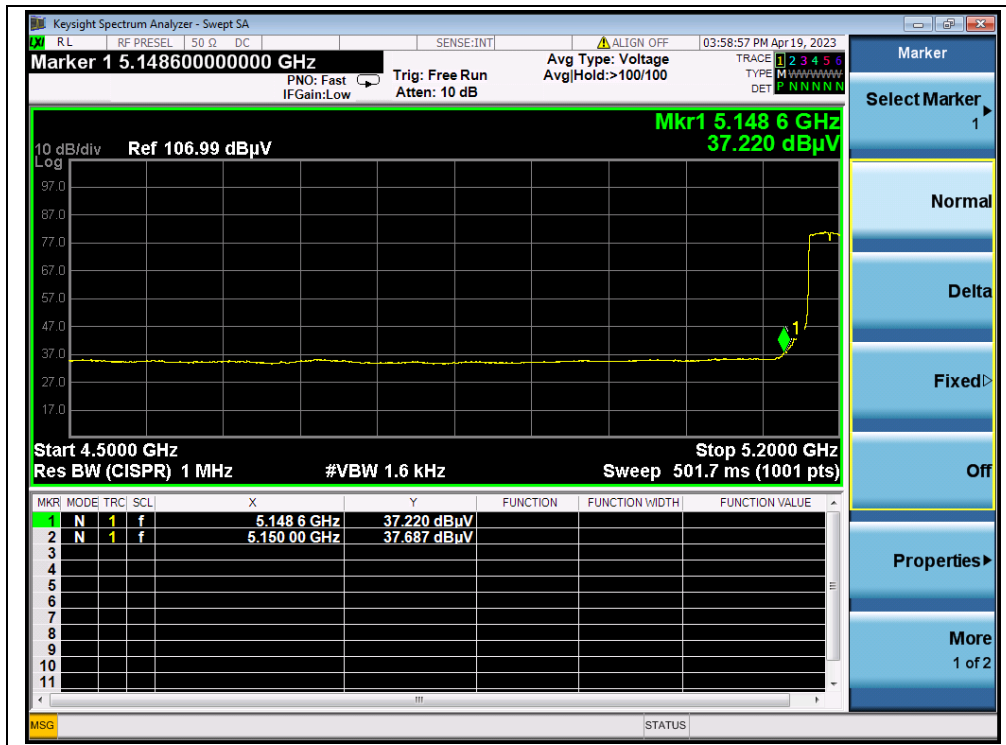


802.11n (HT40) Mode

Channel	Frequency (MHz)	Detector	Receiver Reading	A <sub>T</sub>	A <sub>Factor</sub>	Max. Emission E	Limit (dBμV/m)	Verdict
		PK/ AV	U <sub>R</sub> (dBμV)	(dB)	(dB@3m)	(dBμV/m)		
38	5150.00	PK	46.87	-19.54	32.20	59.53	74	PASS
38	5150.00	AV	37.69	-19.54	32.20	50.35	54	PASS
62	5351.78	PK	47.38	-18.80	32.20	60.78	74	PASS
62	5350.00	AV	36.44	-18.80	32.20	49.84	54	PASS
102	5470.00	PK	49.27	-19.20	32.20	62.27	68.23	PASS
102	5046.11	AV	37.11	-19.20	32.20	50.11	54	PASS
134	5725.44	PK	48.13	-19.20	32.20	61.13	68.23	PASS
151	5700.00	PK	62.76	-19.01	32.20	75.95	110.83	PASS
159	5850.00	PK	49.41	-19.01	32.20	62.60	122.23	PASS



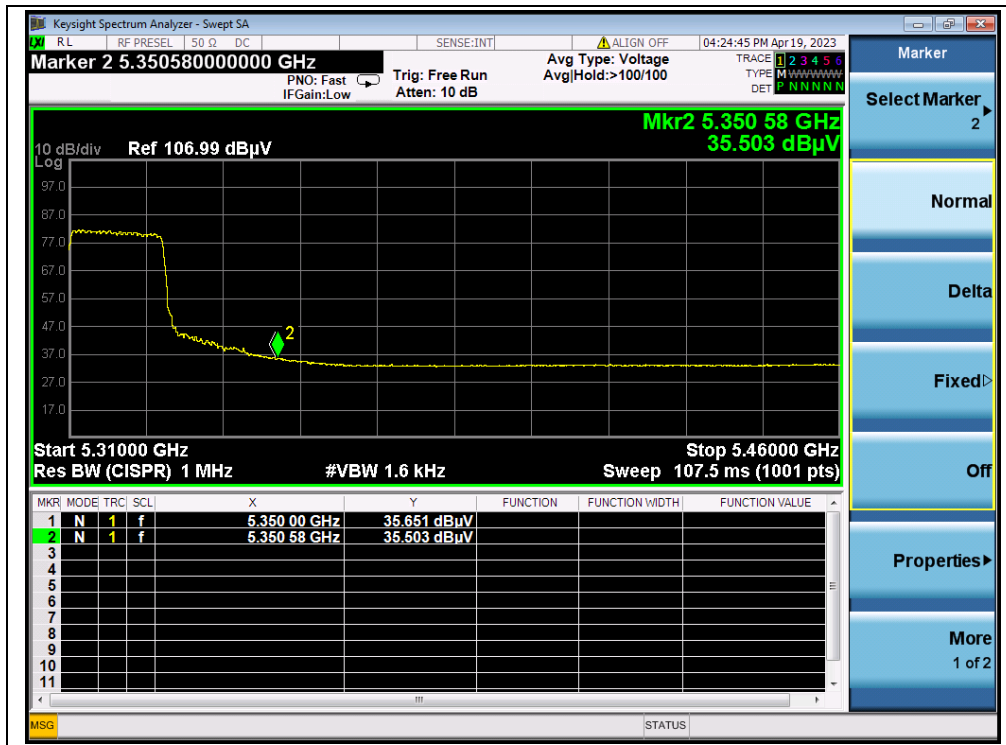
(PEAK, Channel 38, 802.11n (HT40))



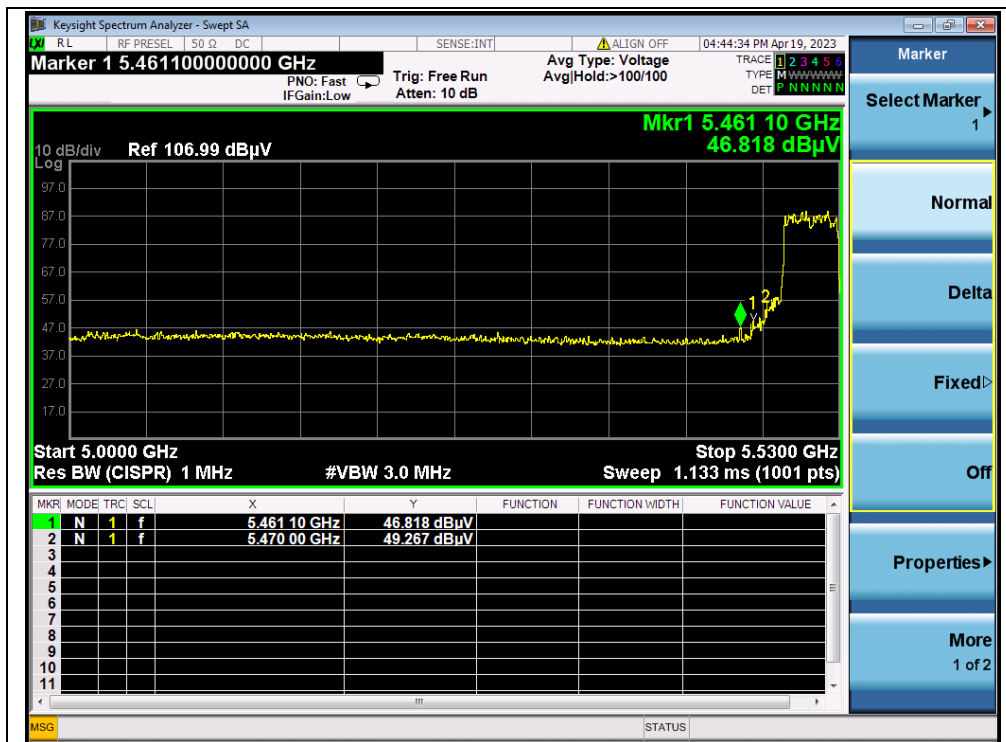
(AVERAGE, Channel 38, 802.11n (HT40))



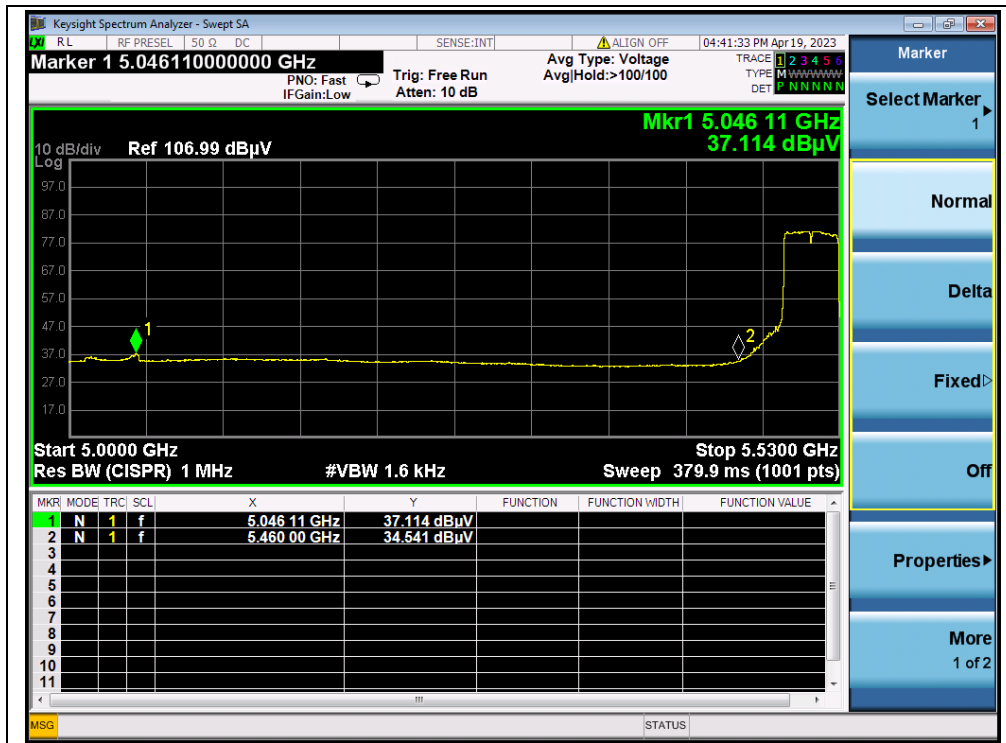
(PEAK, Channel 62, 802.11n (HT40))



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



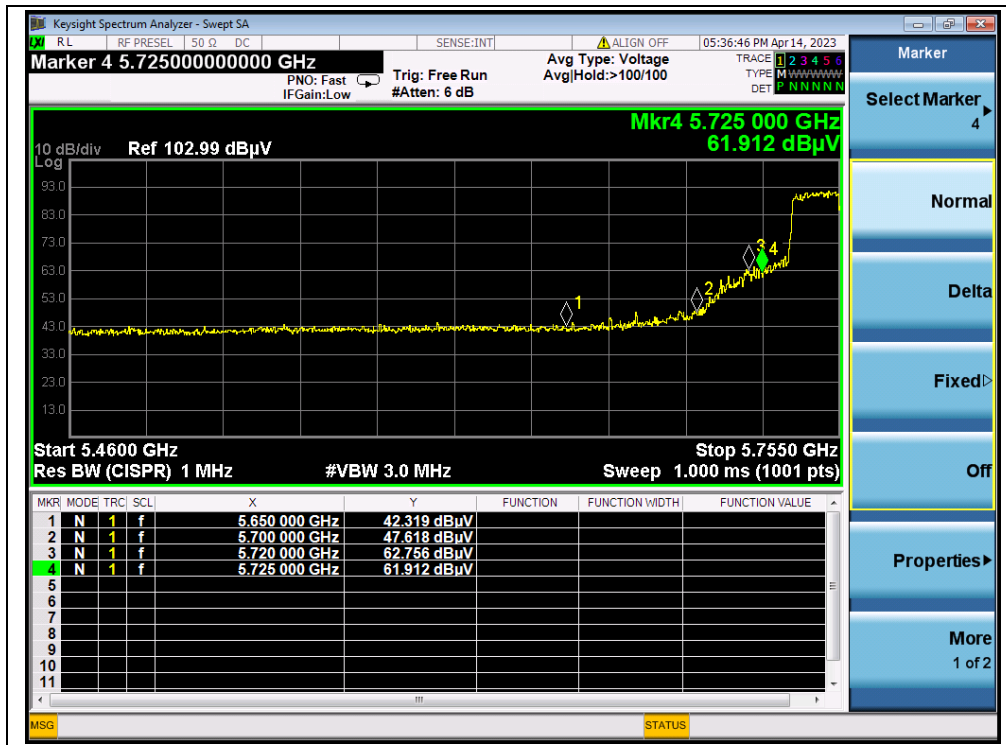
(PEAK, Channel 102, 802.11n (HT40))



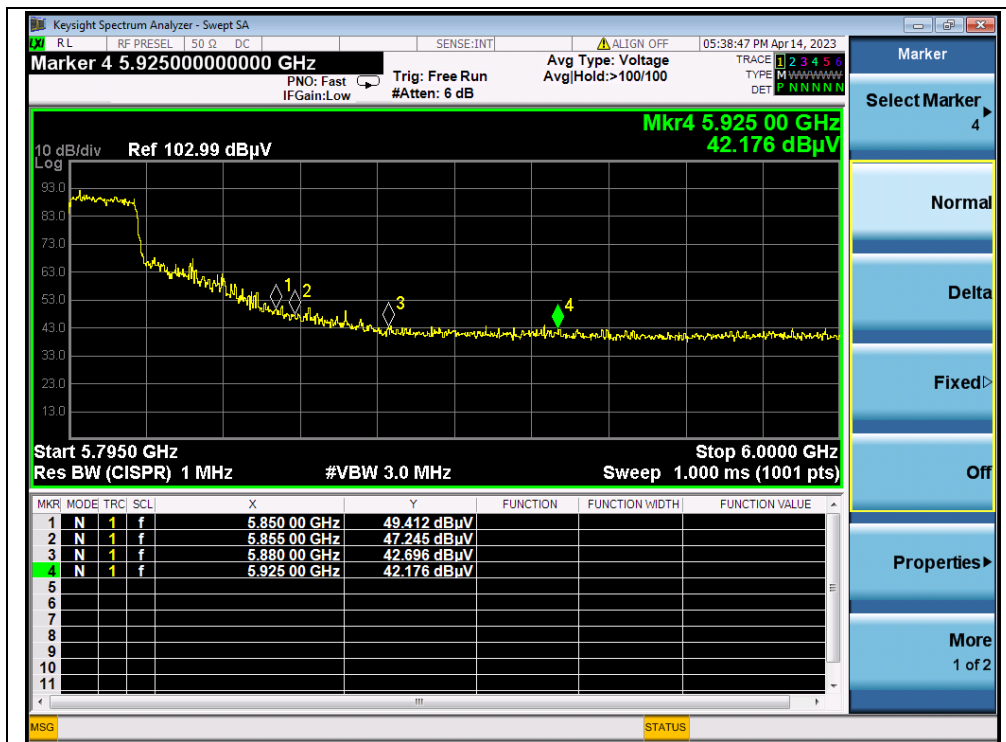
(AVERAGE, Channel 102, 802.11n (HT40))



(PEAK, Channel 134, 802.11n (HT40))



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

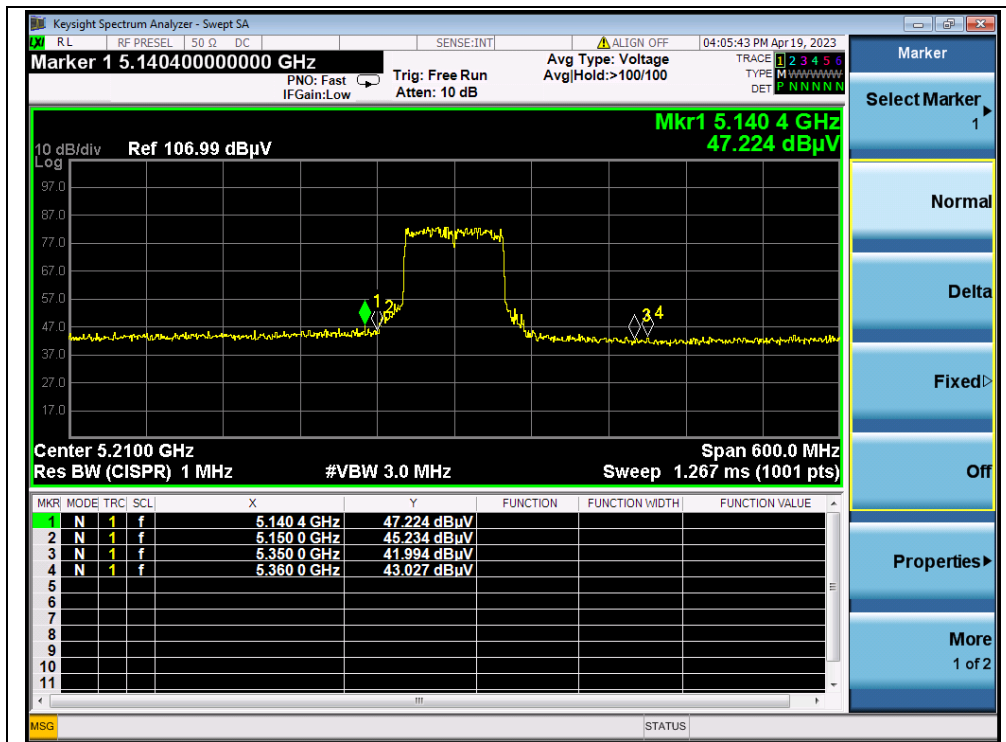


(PEAK, Channel 159, 802.11n (HT40))



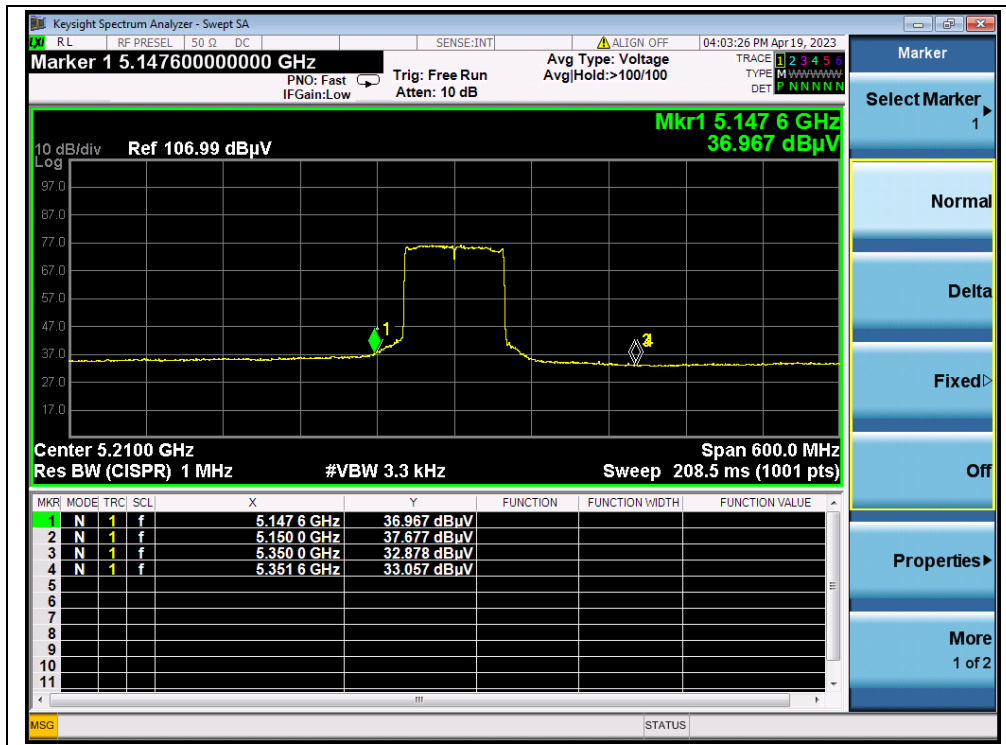
802.11ac (VHT80) Mode

Channel	Frequency (MHz)	Detector	Receiver Reading	A <sub>T</sub> (dB)	A <sub>Factor</sub> (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV	U <sub>R</sub> (dBμV)					
42	5140.40	PK	47.22	-19.54	32.20	59.88	74	PASS
42	5150.00	AV	37.68	-19.54	32.20	50.34	54	PASS
58	5354.80	PK	43.15	-18.80	32.20	56.55	74	PASS
58	5350.00	AV	34.49	-18.80	32.20	47.89	54	PASS
106	5465.48	PK	45.49	-19.20	32.20	58.49	68.23	PASS
106	5459.00	AV	36.92	-19.20	32.20	49.92	54	PASS
138	5729.73	PK	47.95	-19.20	32.20	60.95	68.23	PASS
155	5725.00	PK	62.70	-19.01	32.20	75.89	122.23	PASS
155	5855.00	PK	59.30	-19.01	32.20	72.49	110.83	PASS

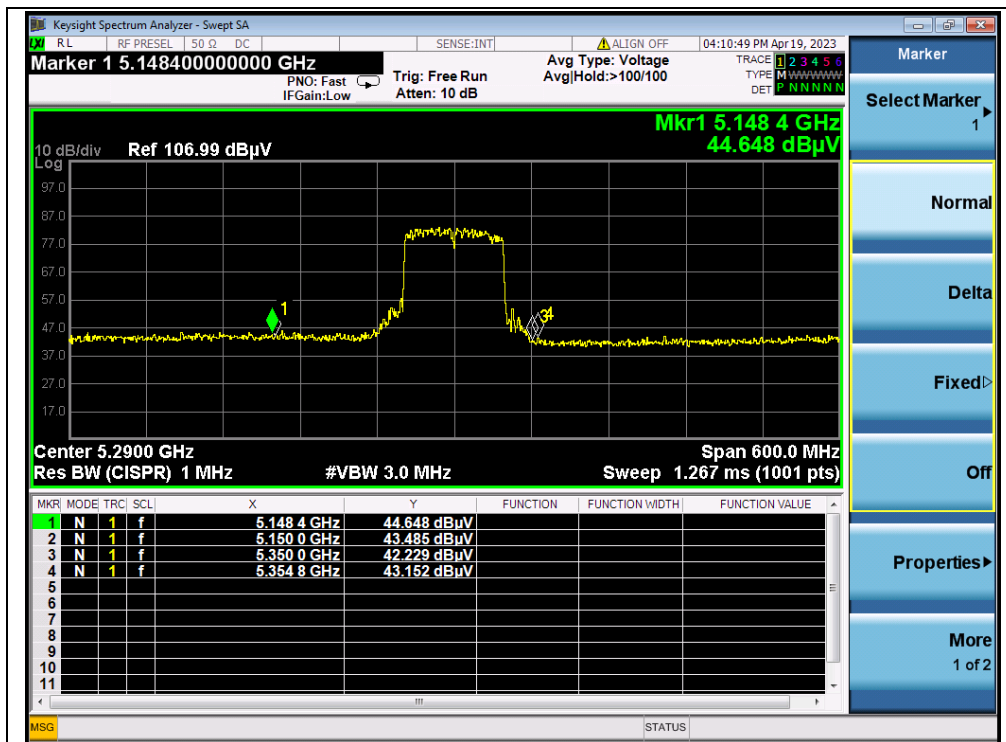


(PEAK, Channel 42, 802.11ac (VHT80))

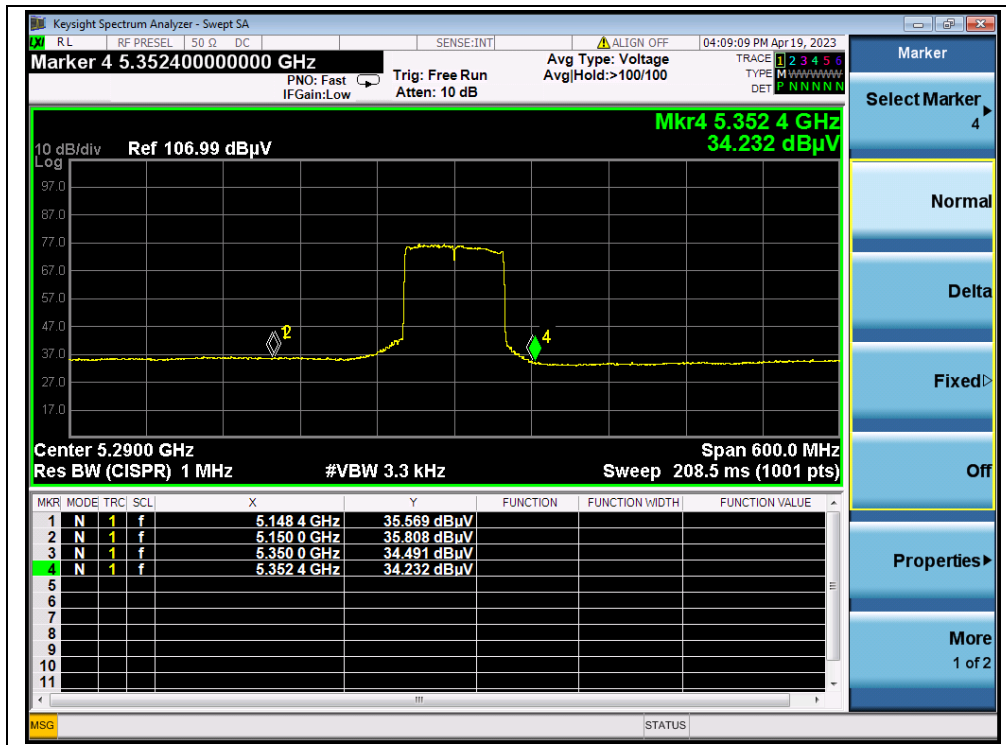




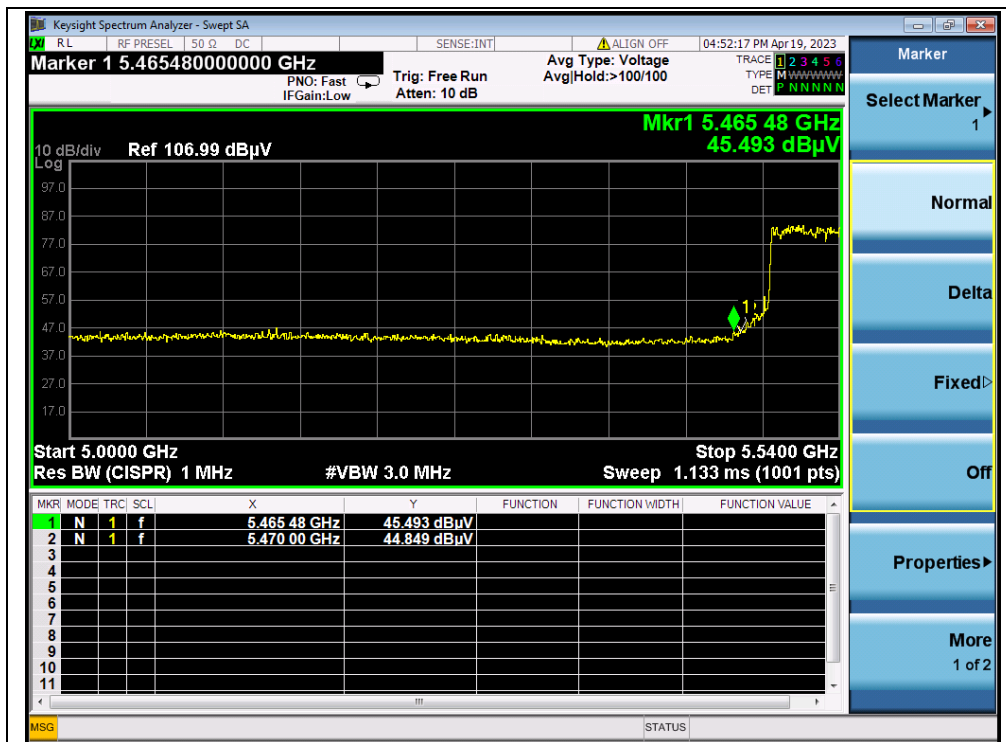
(AVERAGE, Channel 42, 802.11ac (VHT80))



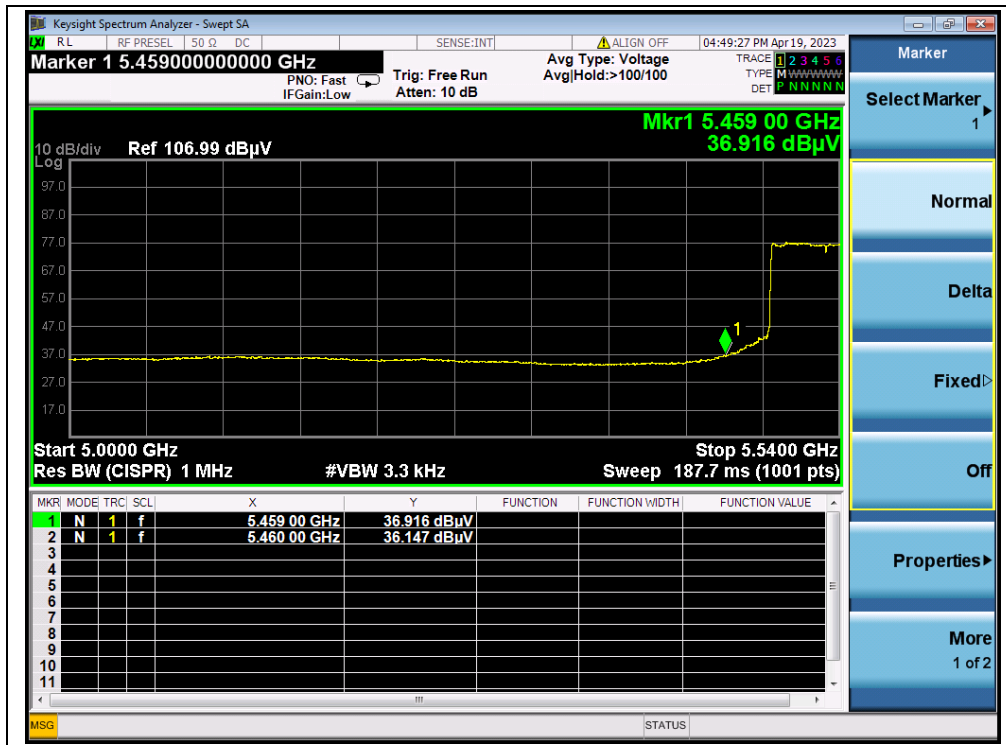
(PEAK, Channel 58, 802.11ac (VHT80))



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



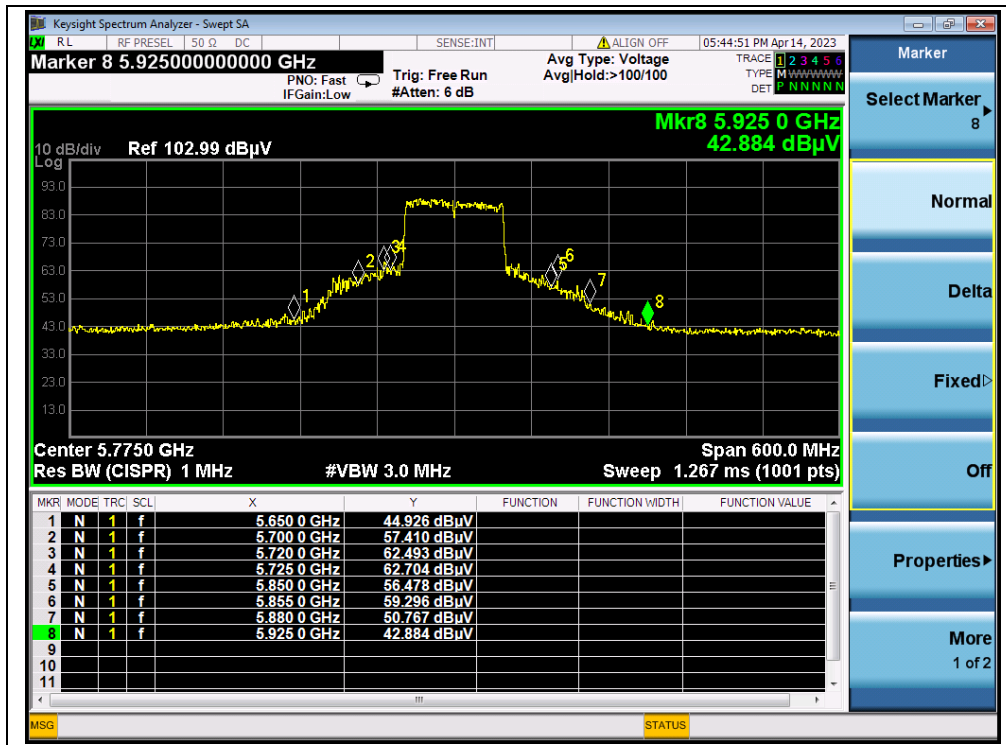
(PEAK, Channel 106, 802.11ac (VHT80))



(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

$G_{\text{preamp}}$ : Preamplifier Gain

$A_{\text{Factor}}$ : Antenna Factor at 3m

During the test, the total correction Factor  $A_T$  and  $A_{\text{Factor}}$  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.

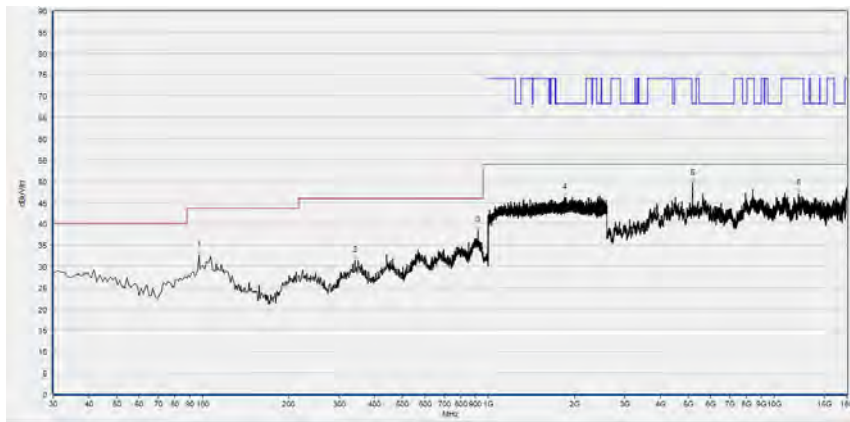
**Note3:** For the frequency, which started from 18GHz to 10th harmonic of the highest frequency, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

**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.



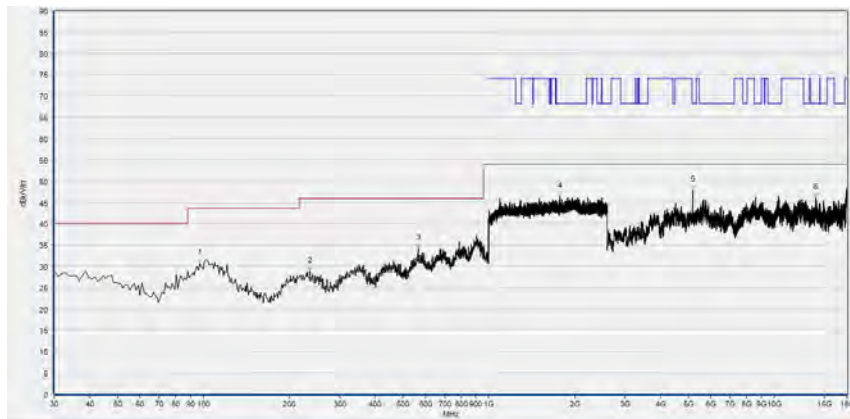
**802.11a Mode**

**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
96.930	32.56	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
341.370	31.30	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
919.490	38.42	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1849.067	46.01	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5181.040	49.50	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12163.400	47.10	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

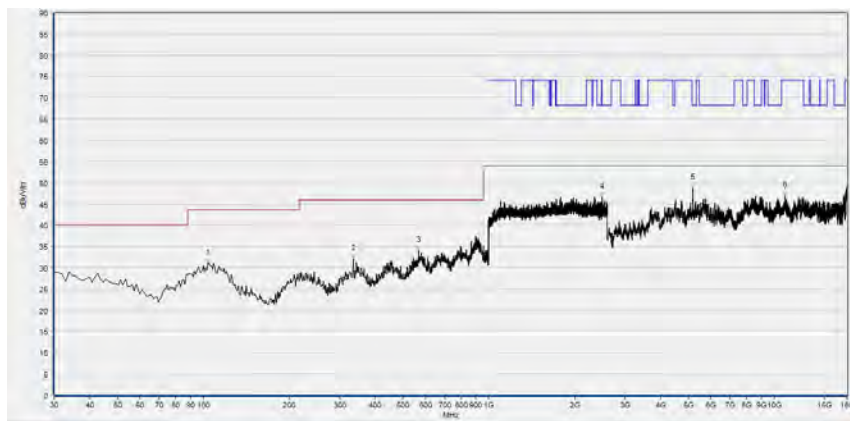
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
96.930	30.63	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
236.610	28.89	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
565.440	34.15	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1773.333	46.35	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5184.120	48.54	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
13996.000	46.12	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

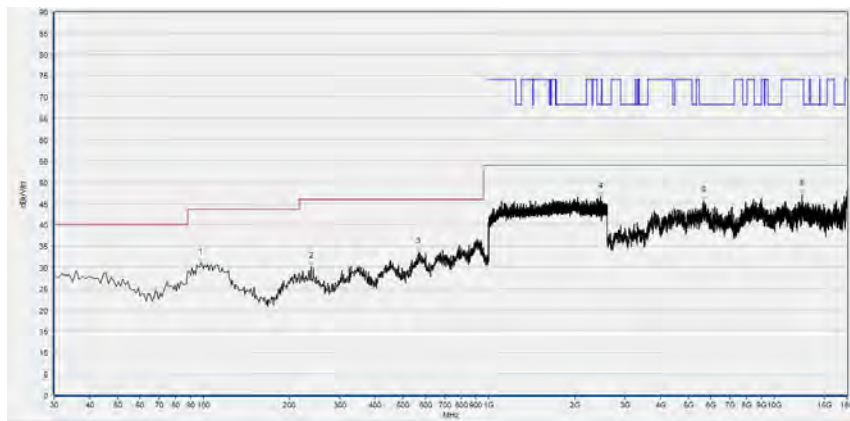
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 44



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
103.720	30.95	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
335.550	32.02	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
568.350	34.03	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2488.000	46.52	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5219.040	48.82	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10885.200	47.00	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

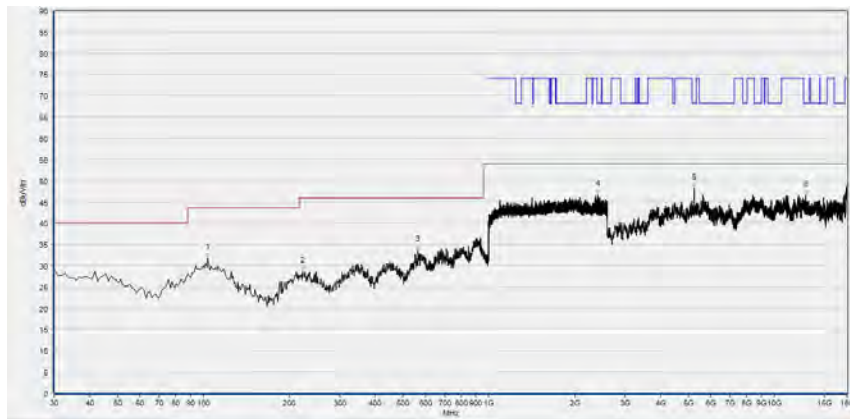
(Antenna Horizontal, 30MHz to 18GHz)



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
97.900	31.05	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
238.550	30.14	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
568.350	33.47	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2459.200	46.55	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5639.960	45.51	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12517.600	47.11	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

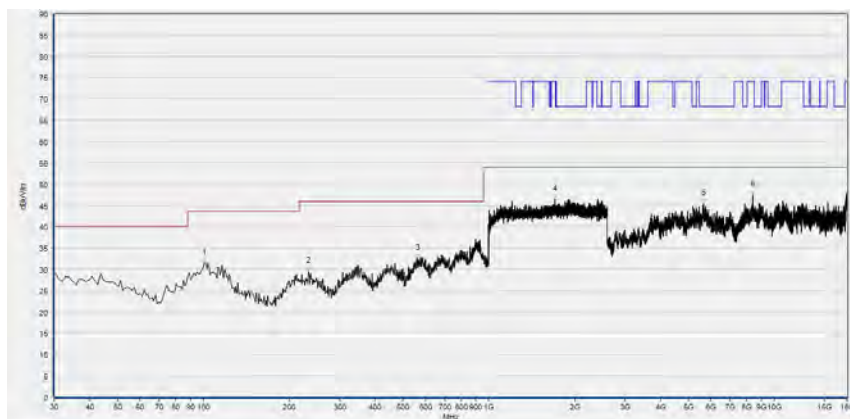
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 48



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
103.720	31.92	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
223.030	28.71	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
564.470	33.64	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2412.800	46.72	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5233.400	48.34	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12887.200	46.61	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

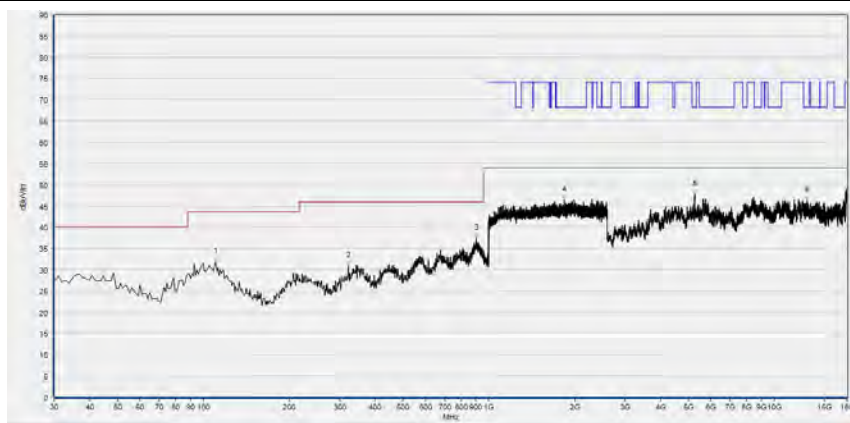


Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
100.810	31.39	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
233.700	29.49	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
562.530	32.51	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1706.667	46.36	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5652.280	45.49	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8427.360	47.43	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

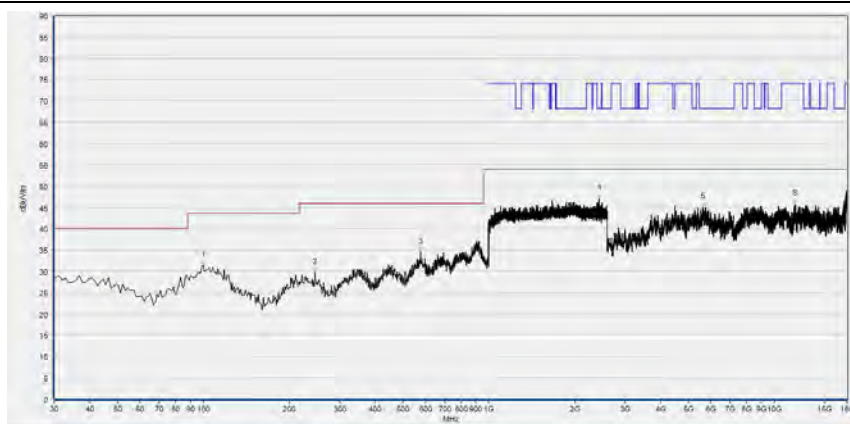


Plot for Channel 52



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
110.510	31.91	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
321.970	30.78	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
902.030	37.36	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1837.867	46.35	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5261.120	47.82	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
13056.600	46.25	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

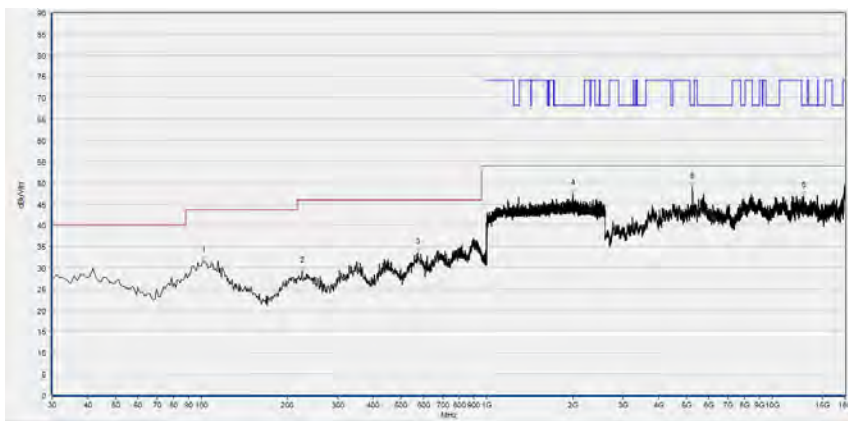
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
99.840	31.42	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
246.310	29.70	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
576.110	34.57	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2441.067	47.08	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5630.720	45.07	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
11833.840	45.73	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

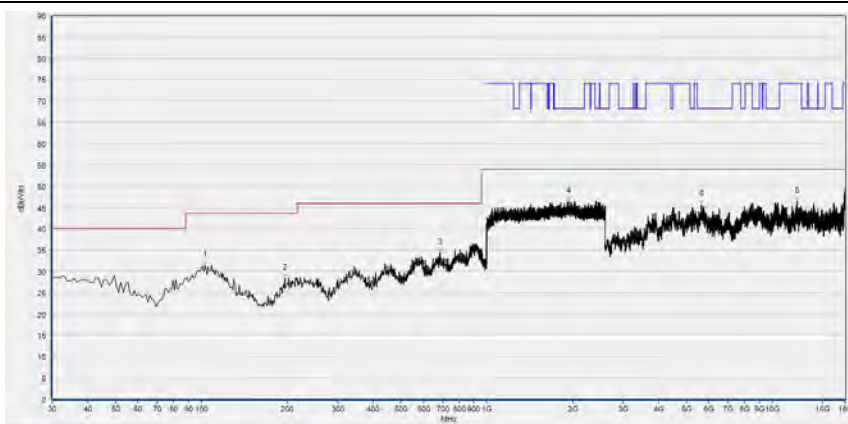
(Antenna Vertical, 30MHz to 18GHz)

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
101.780	31.60	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
224.970	29.09	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
572.230	33.55	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2003.733	47.37	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5298.960	48.94	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12890.280	47.01	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

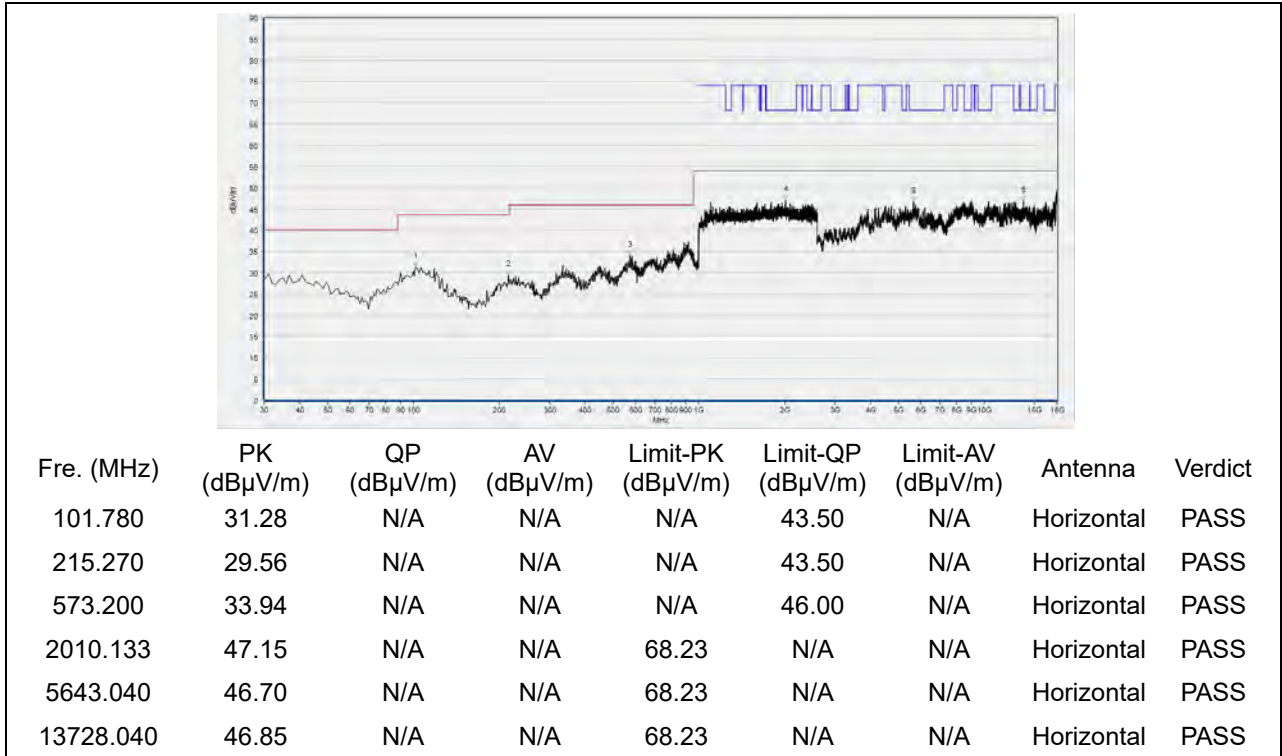
(Antenna Horizontal, 30MHz to 18GHz)



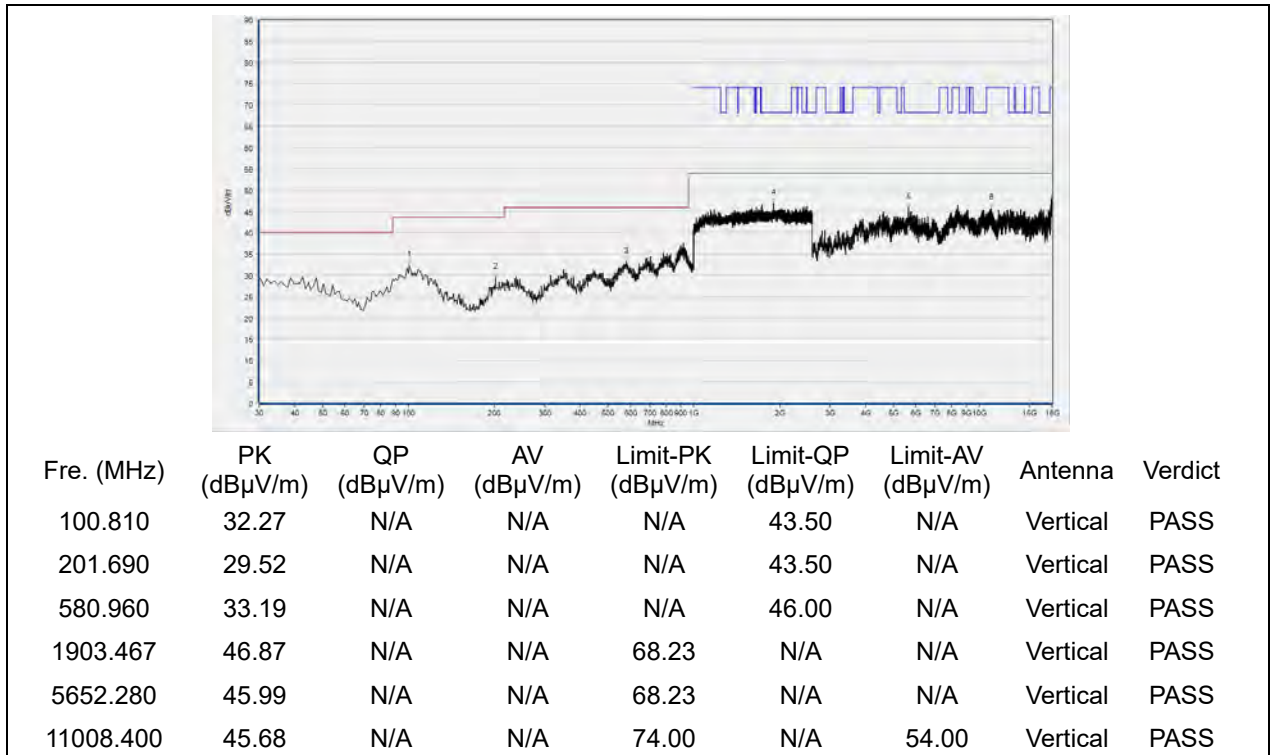
Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
102.750	31.27	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
195.870	28.25	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
683.780	34.37	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1931.200	46.36	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5649.200	45.60	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12261.960	46.50	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 64

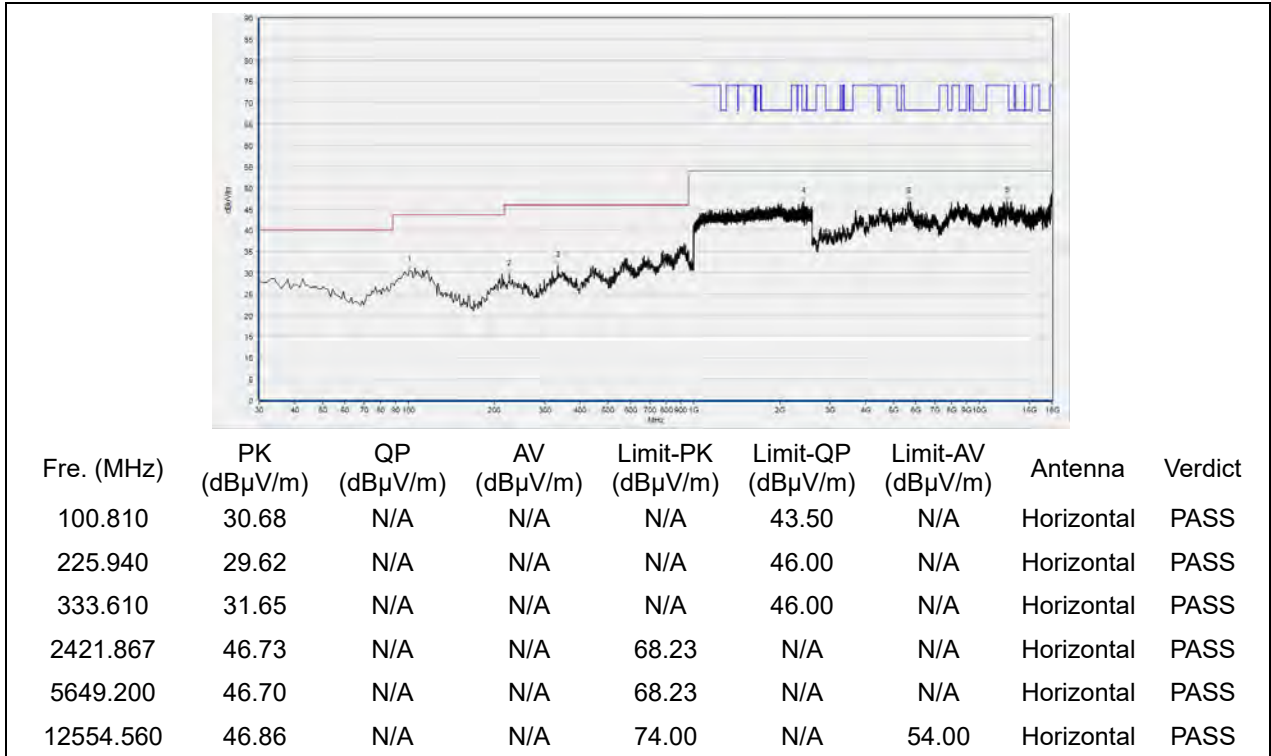


(Antenna Horizontal, 30MHz to 18GHz)

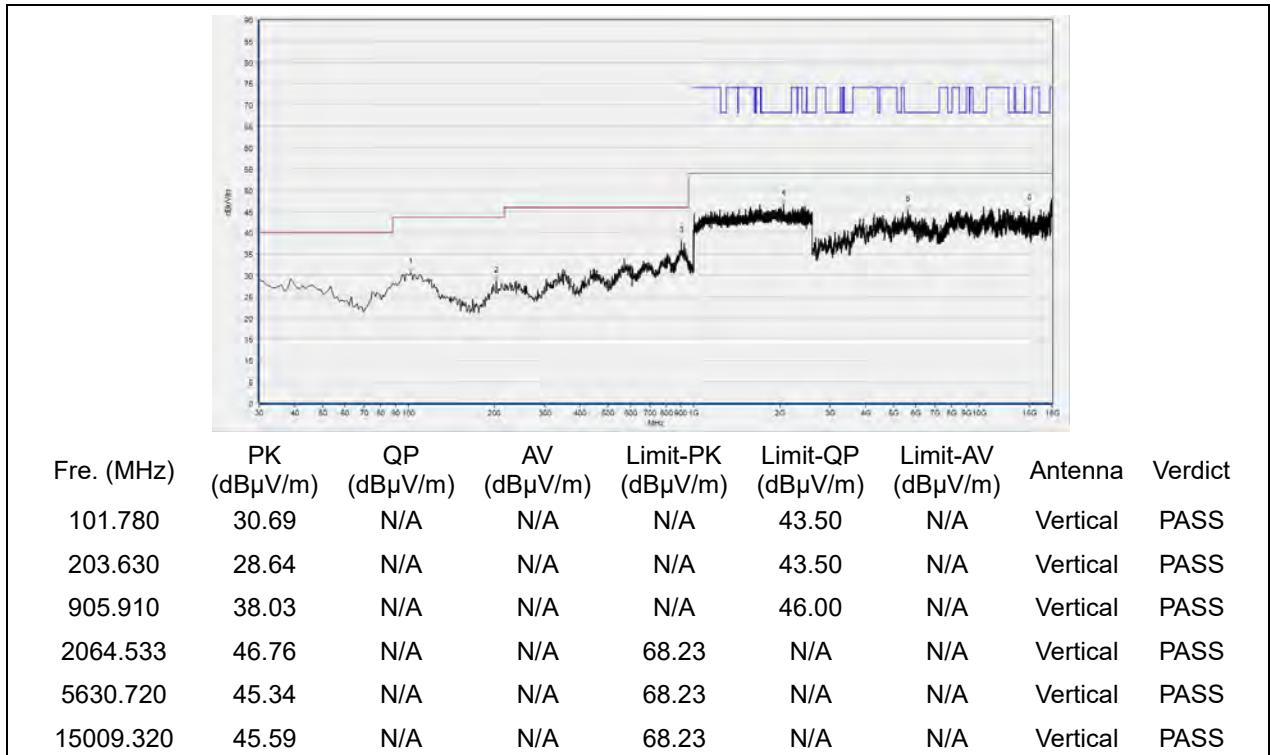


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 100

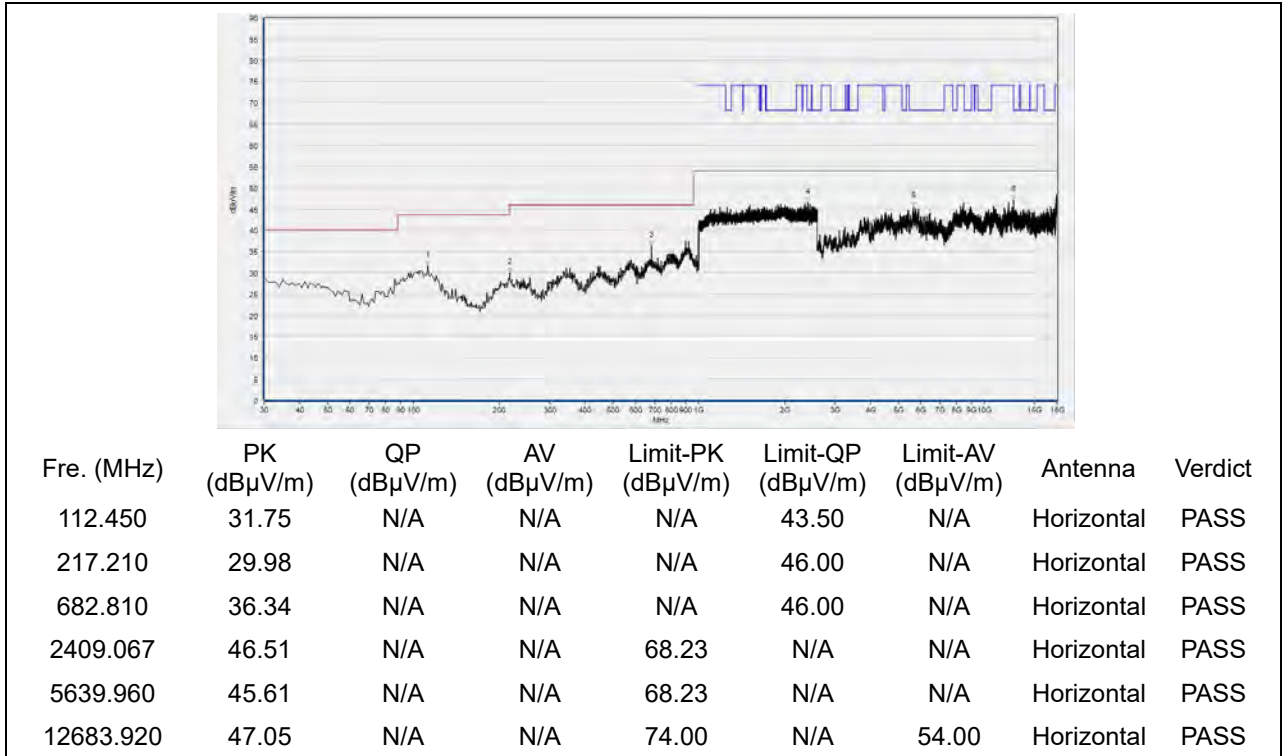


(Antenna Horizontal, 30MHz to 18GHz)

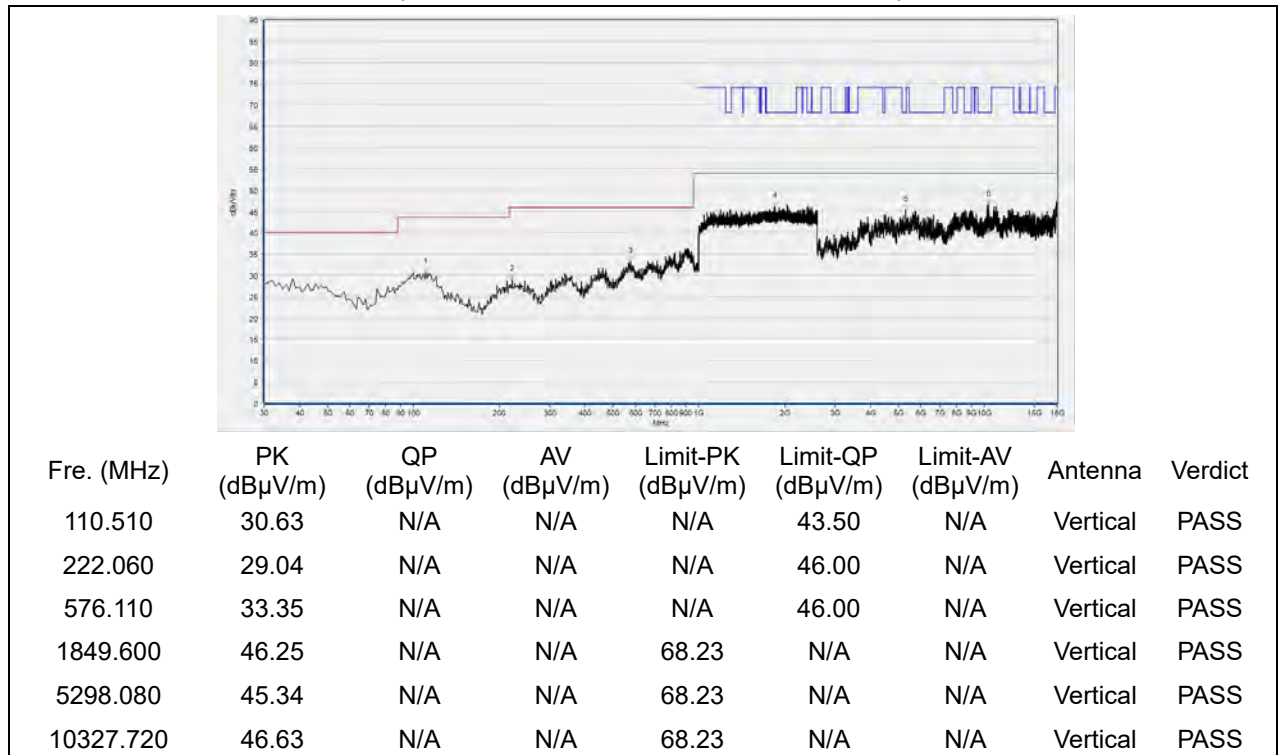


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 120

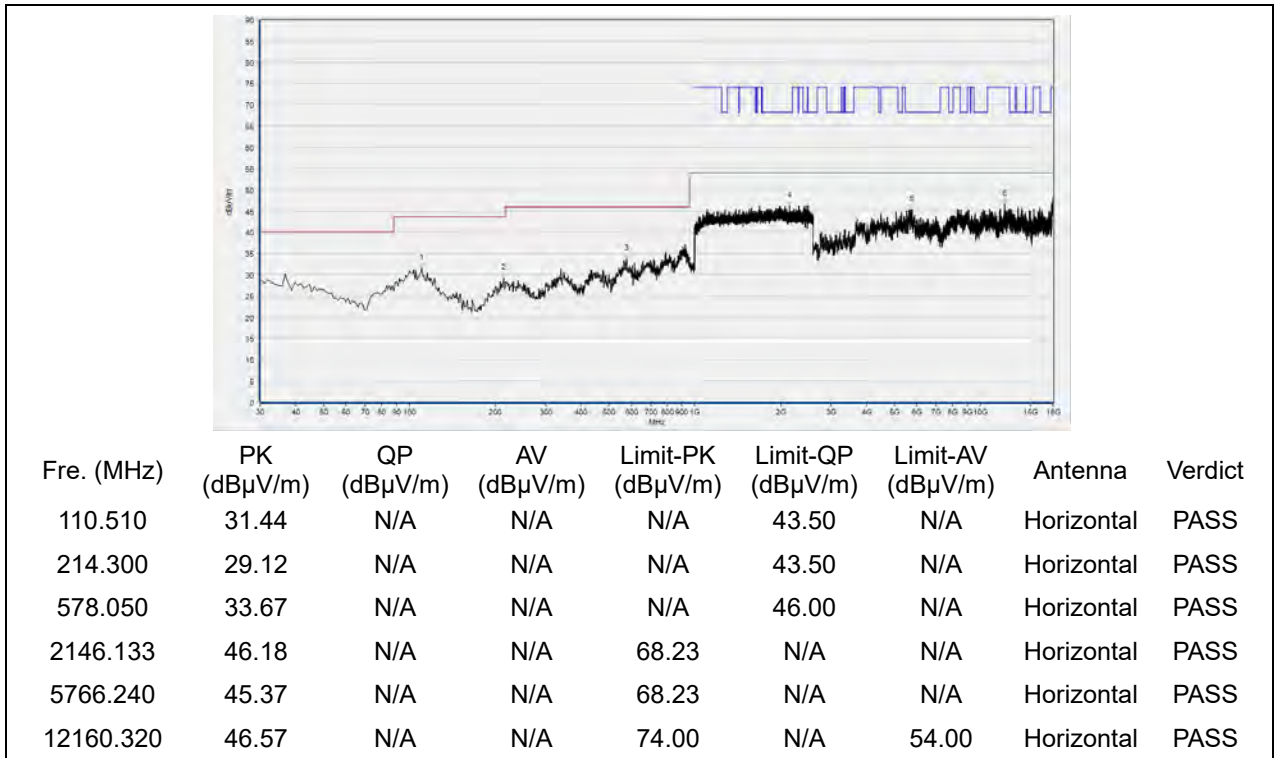


(Antenna Horizontal, 30MHz to 18GHz)

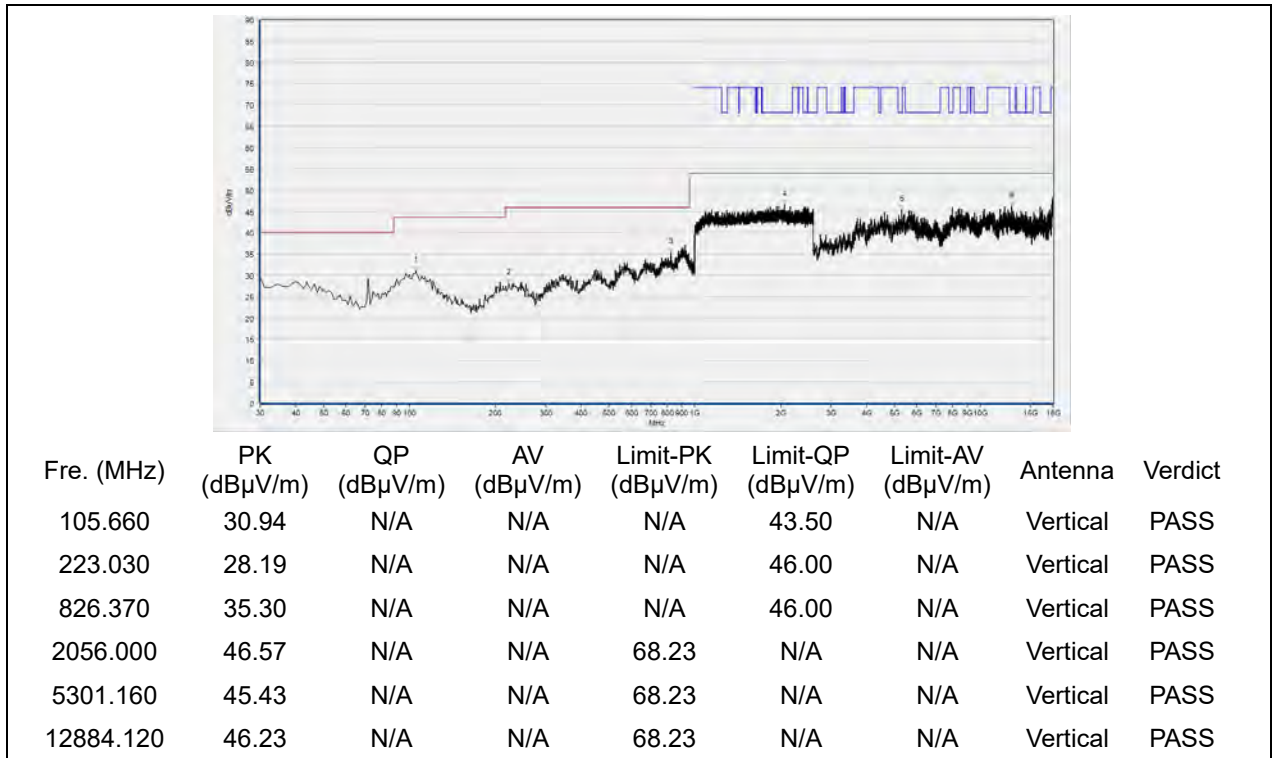


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 140

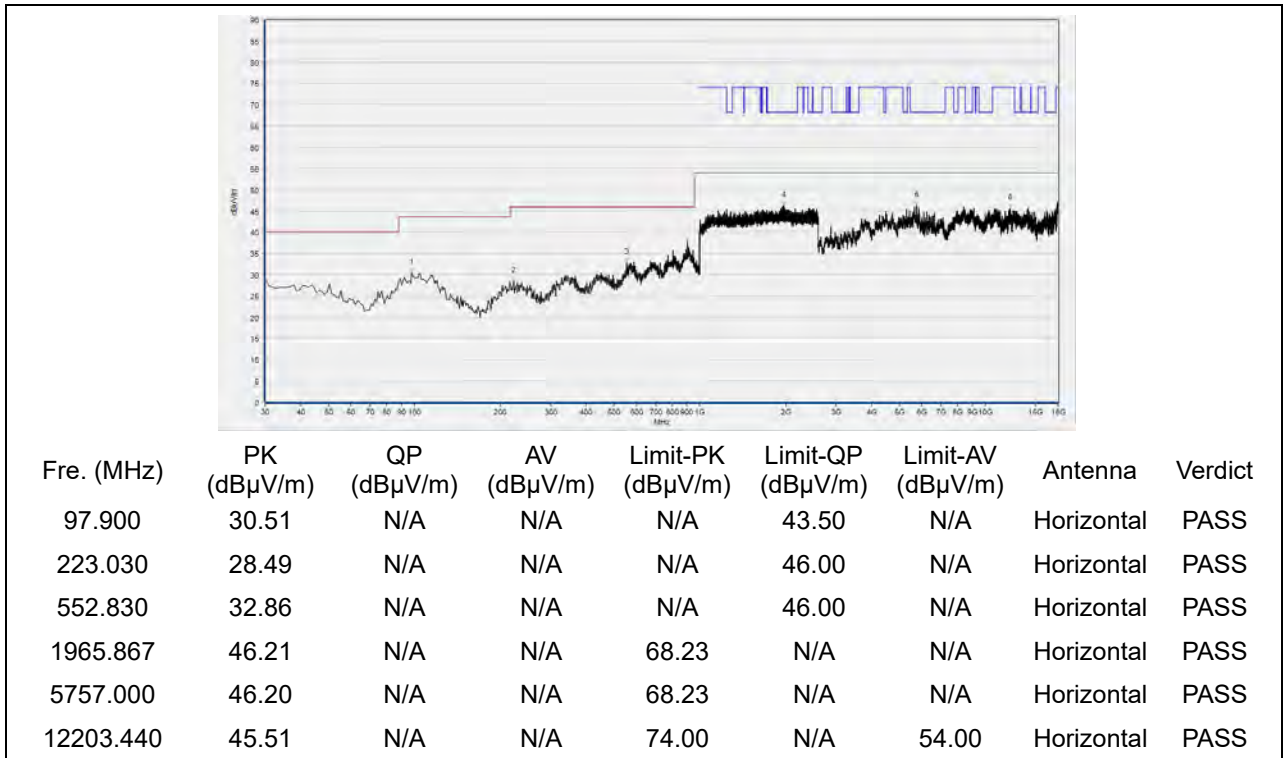


(Antenna Horizontal, 30MHz to 18GHz)

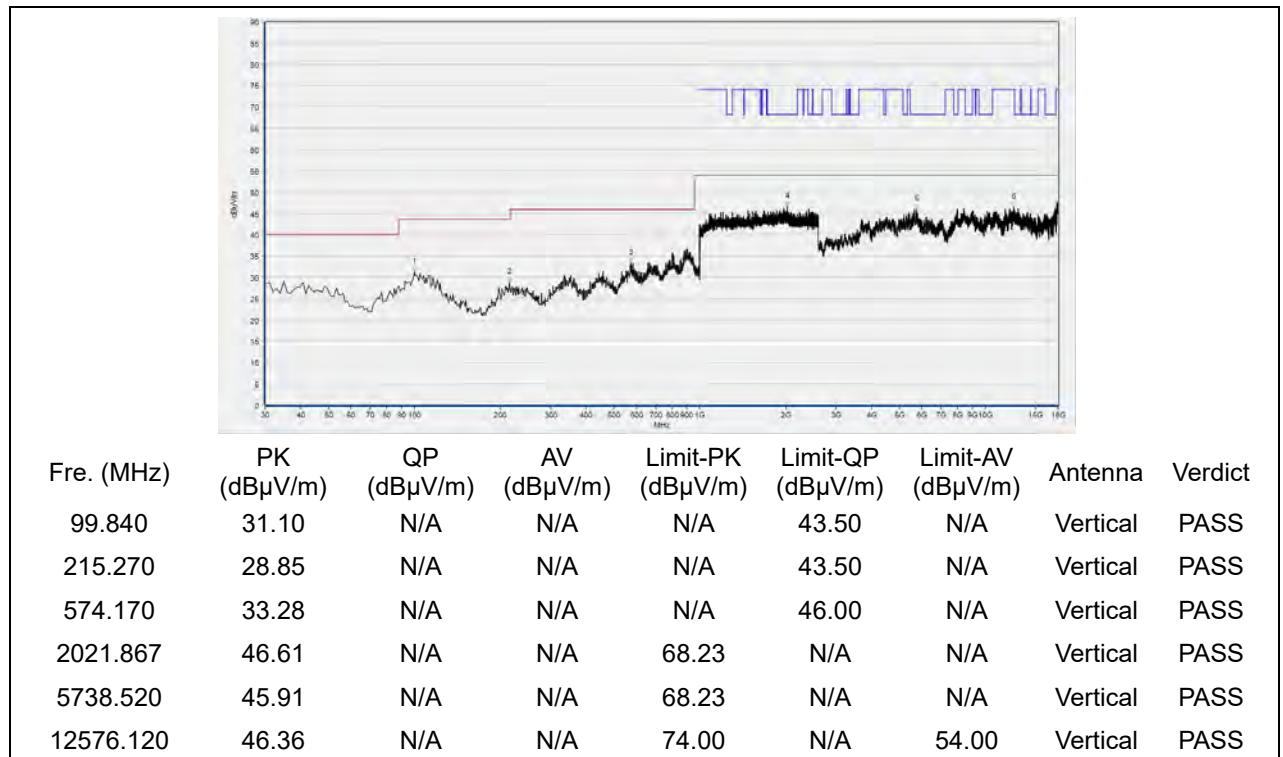


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 149

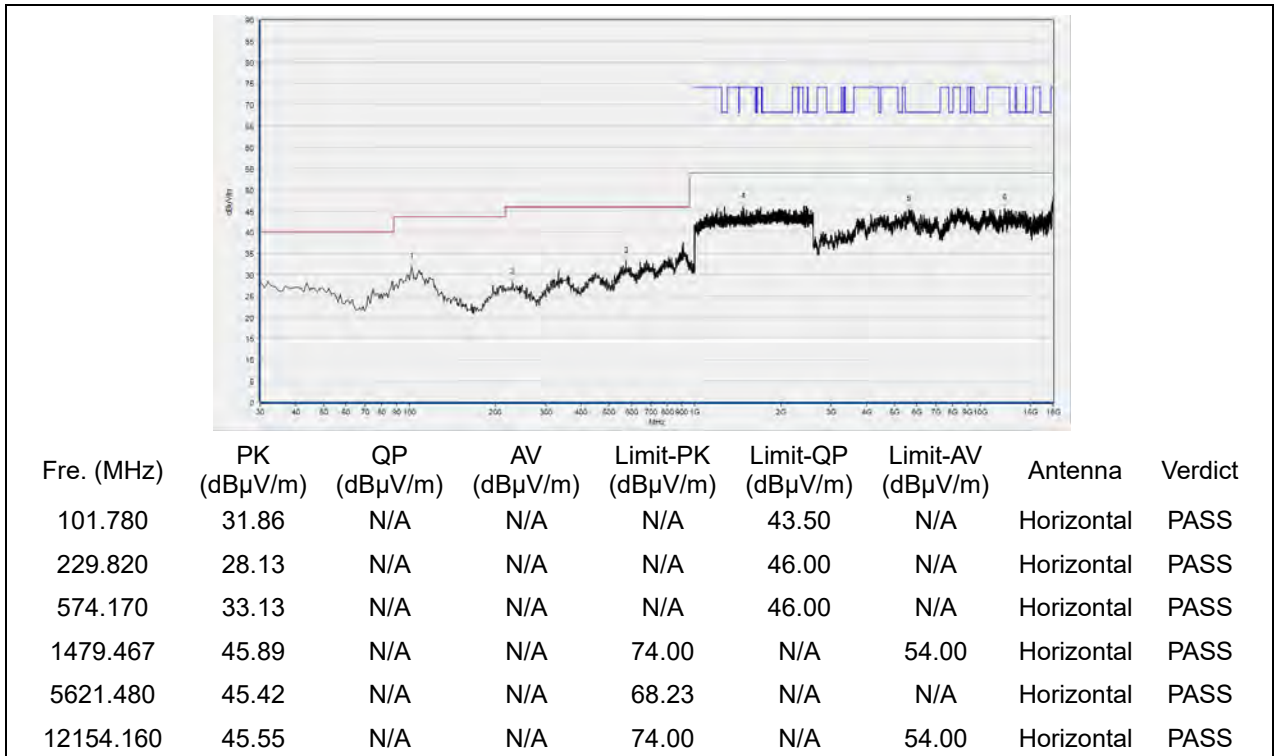


(Antenna Horizontal, 30MHz to 18GHz)

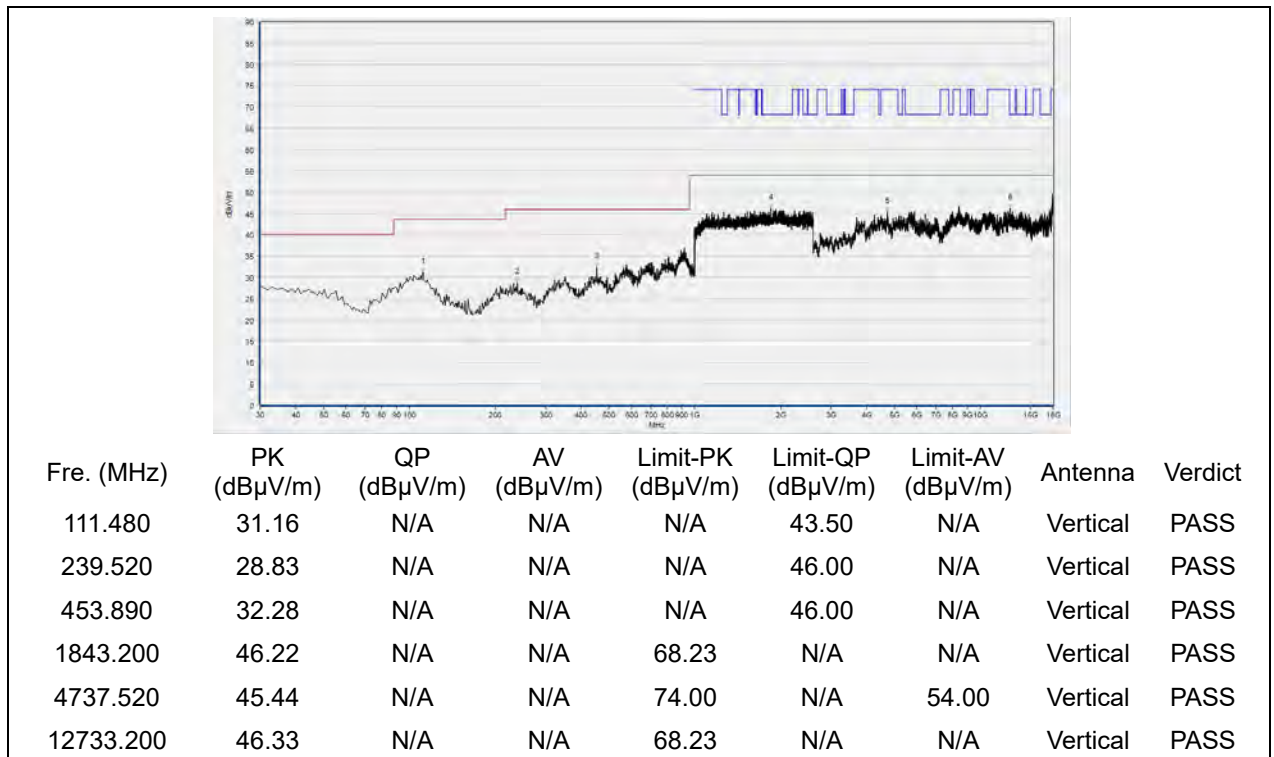


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 157



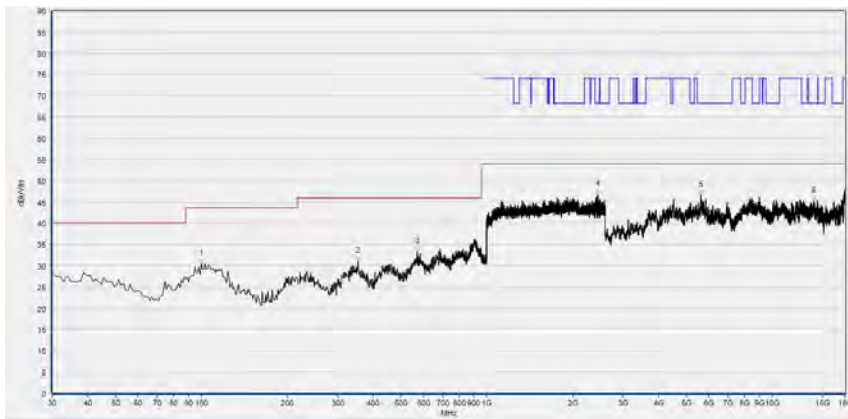
(Antenna Horizontal, 30MHz to 18GHz)



(Antenna Vertical, 30MHz to 18GHz)

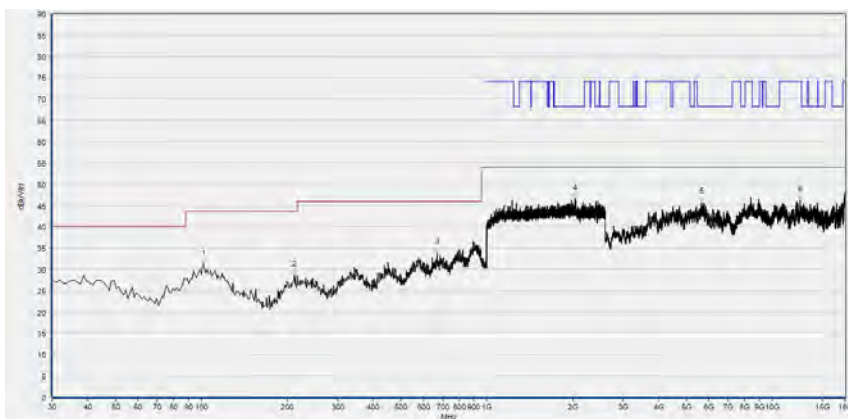


Plot for Channel 165



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
99.840	30.44	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
353.980	31.02	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
569.320	33.30	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2450.667	46.75	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5621.480	46.60	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
14008.320	45.24	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



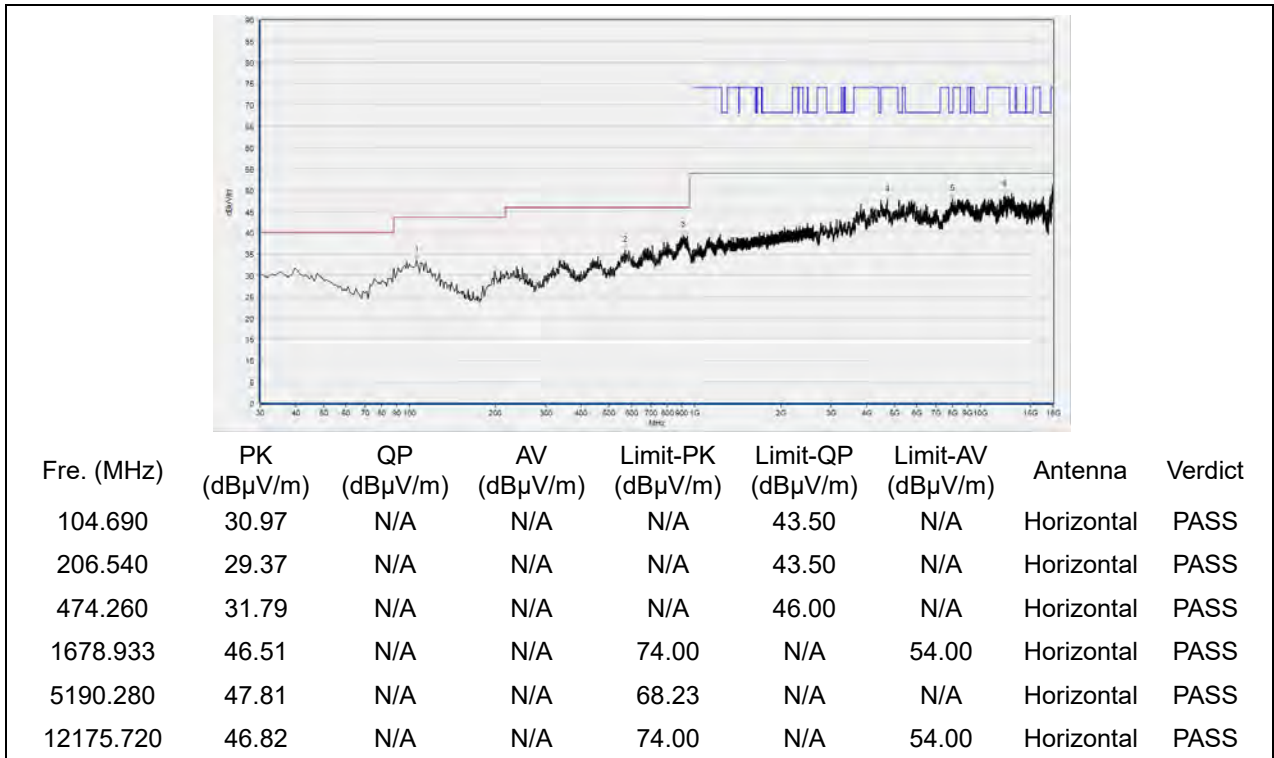
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
101.780	31.18	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
211.390	28.66	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
670.200	33.87	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2034.667	46.55	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5643.040	45.70	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12533.000	46.22	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

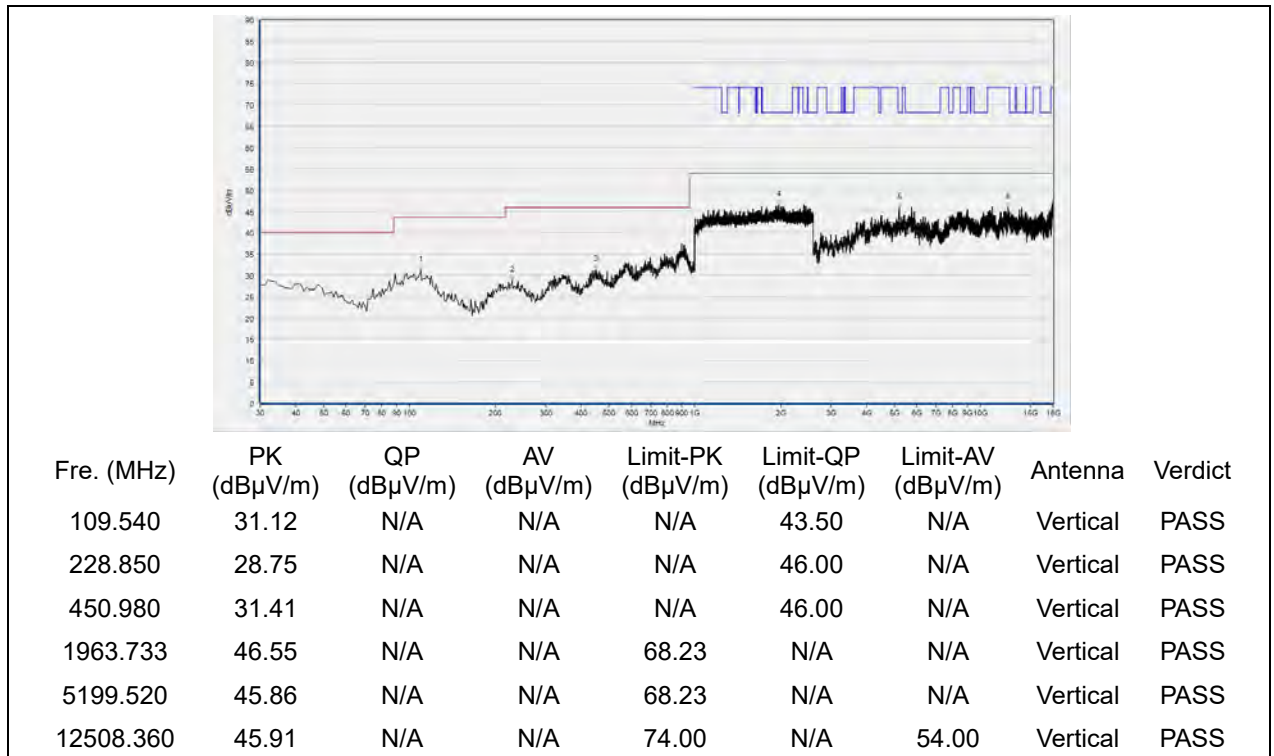


**802.11n (HT40) mode**

**Plot for Channel 38**

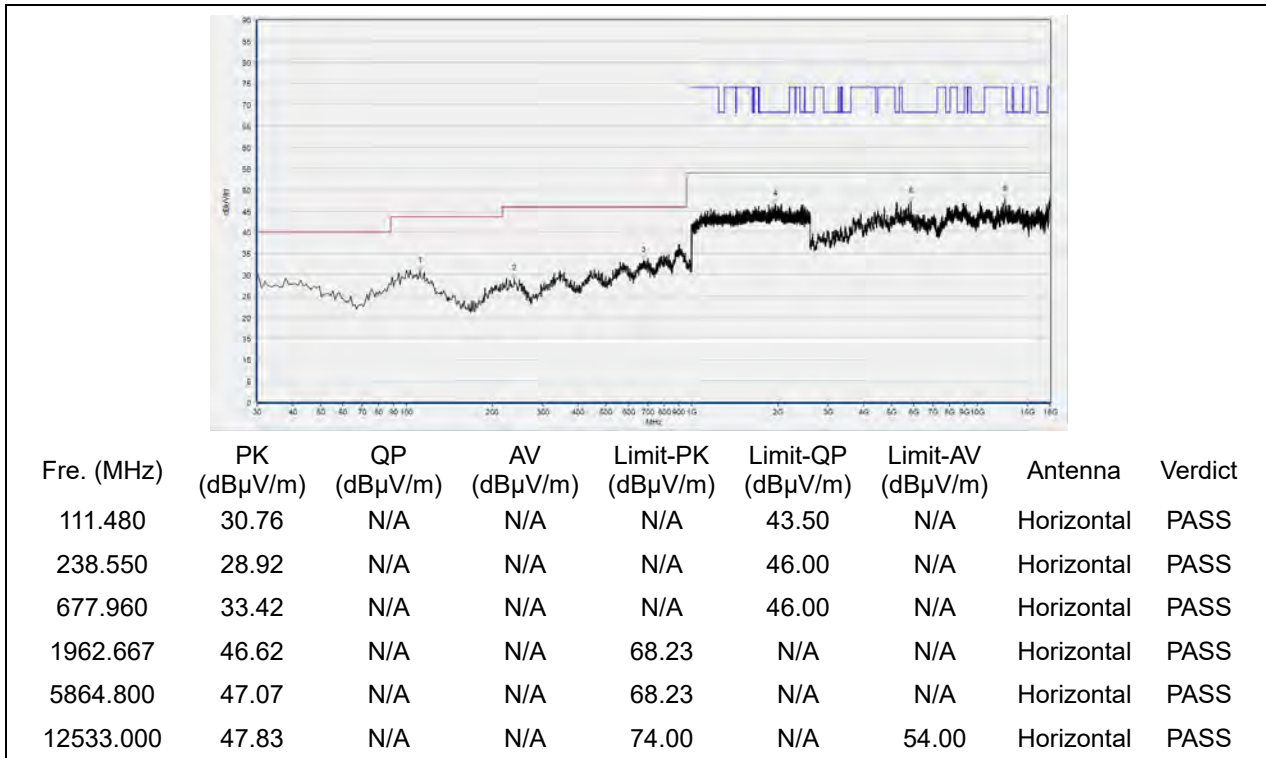


(Antenna Horizontal, 30MHz to 18GHz)

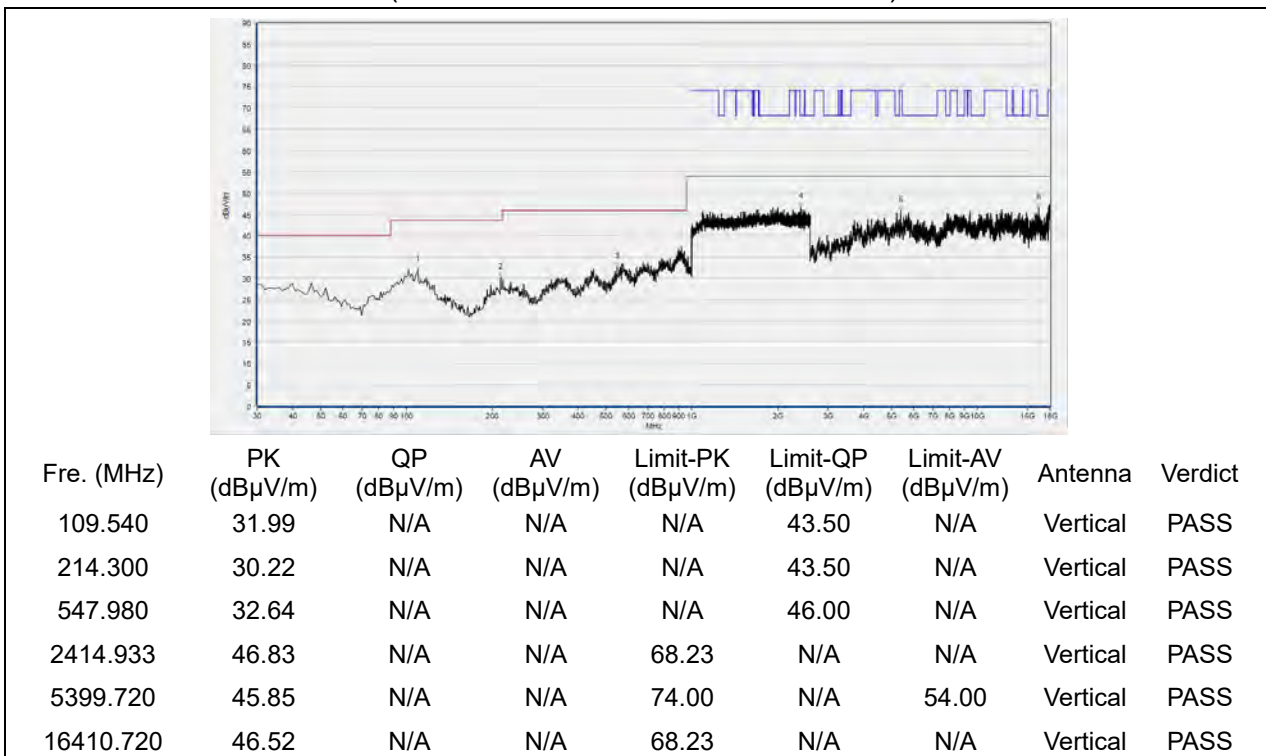


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 46

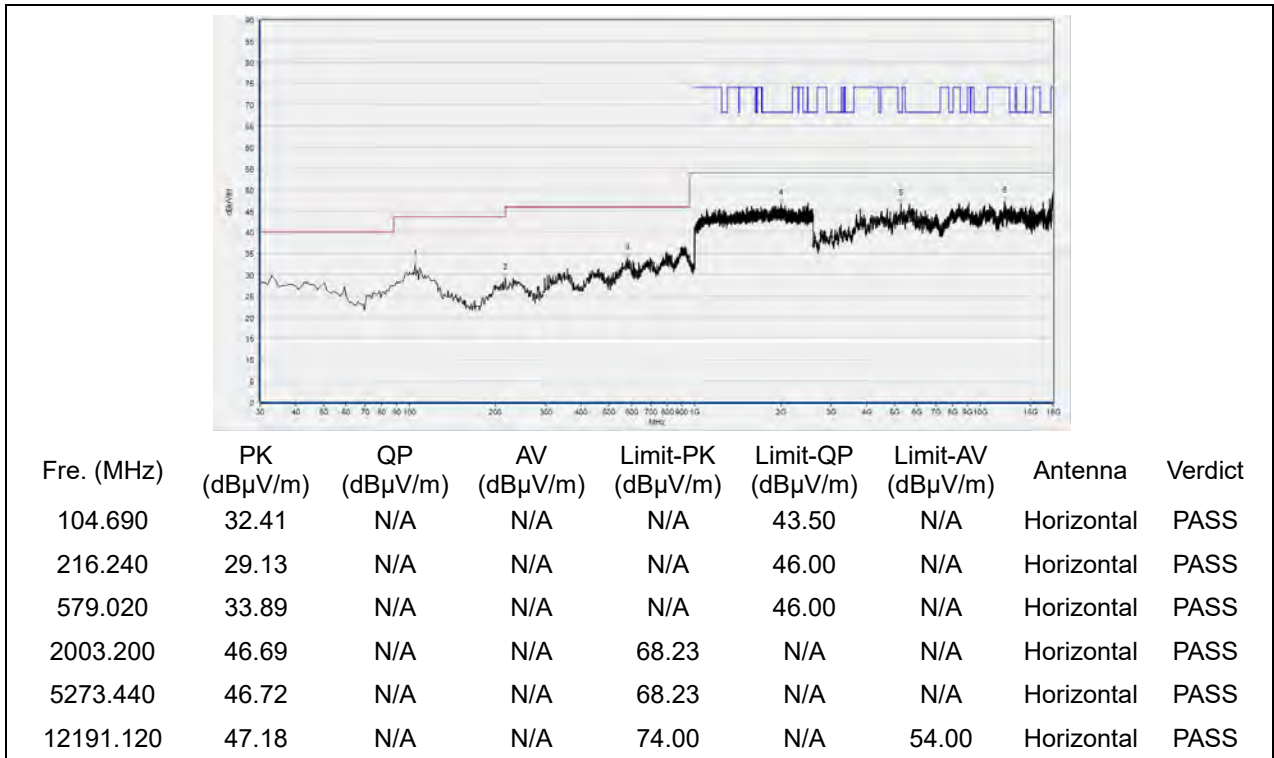


(Antenna Horizontal, 30MHz to 18GHz)

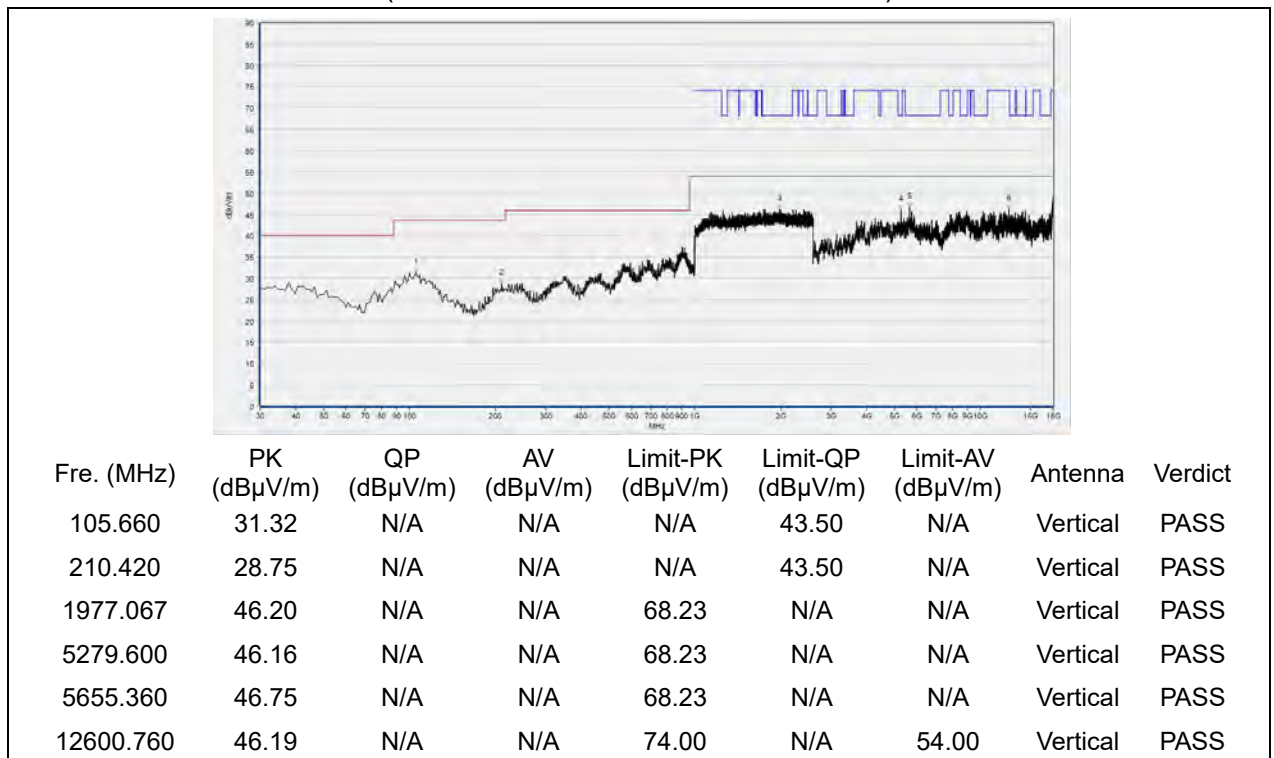


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 54

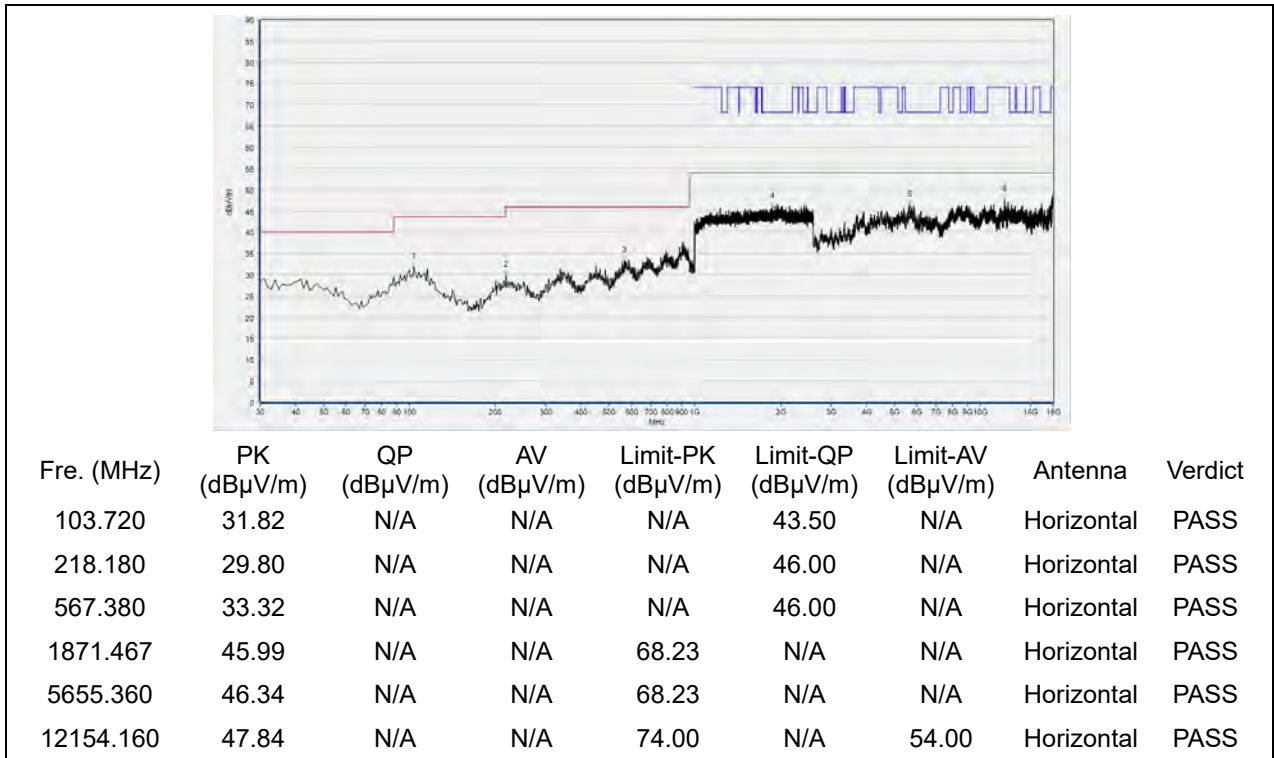


(Antenna Horizontal, 30MHz to 18GHz)

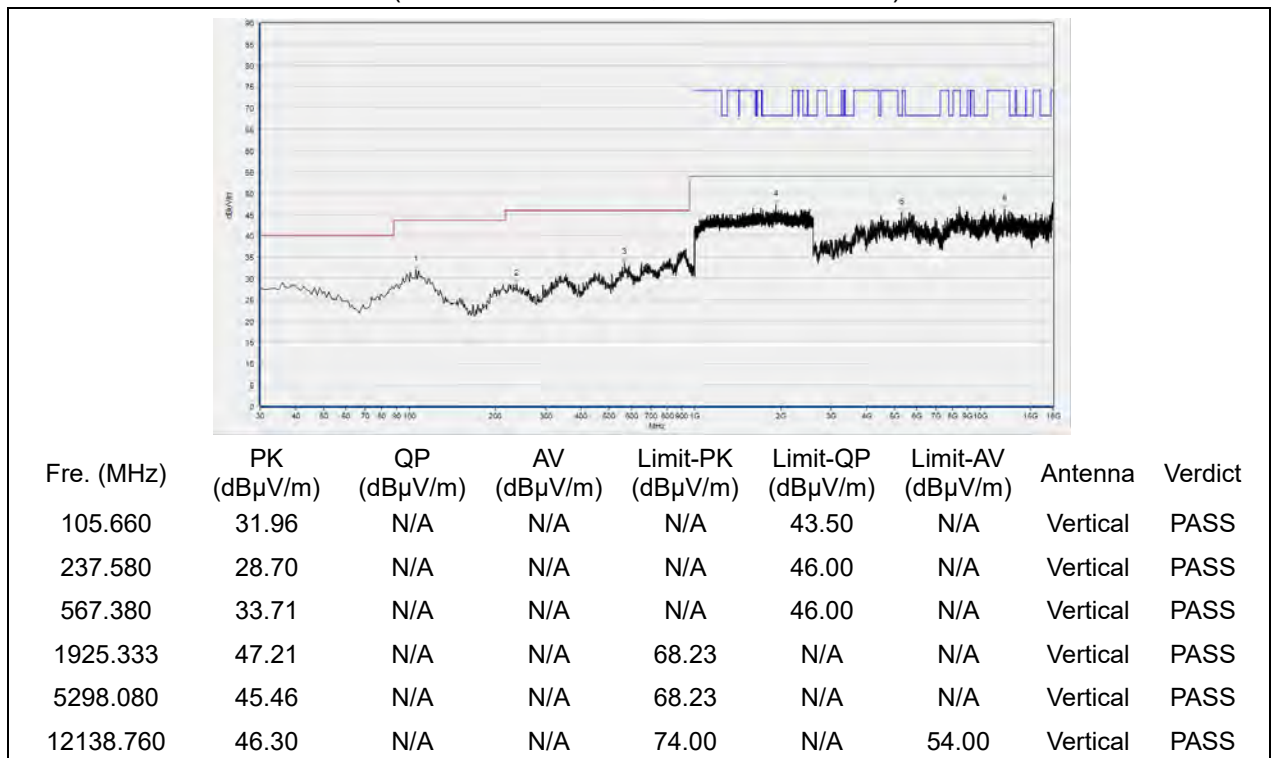


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 62

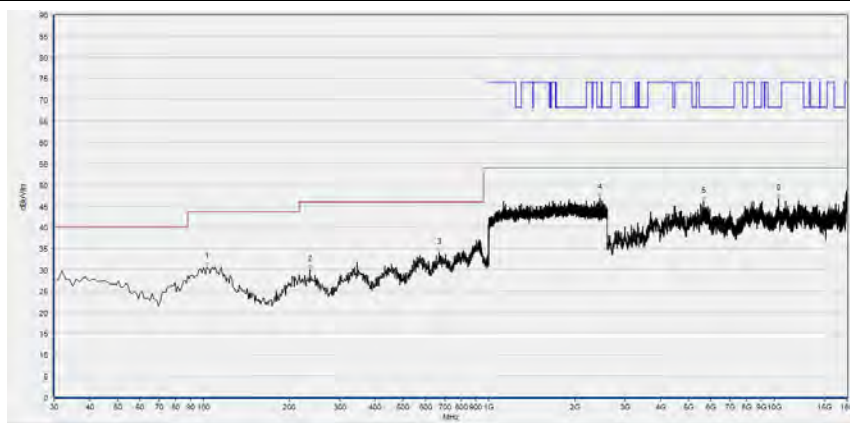


(Antenna Horizontal, 30MHz to 18GHz)



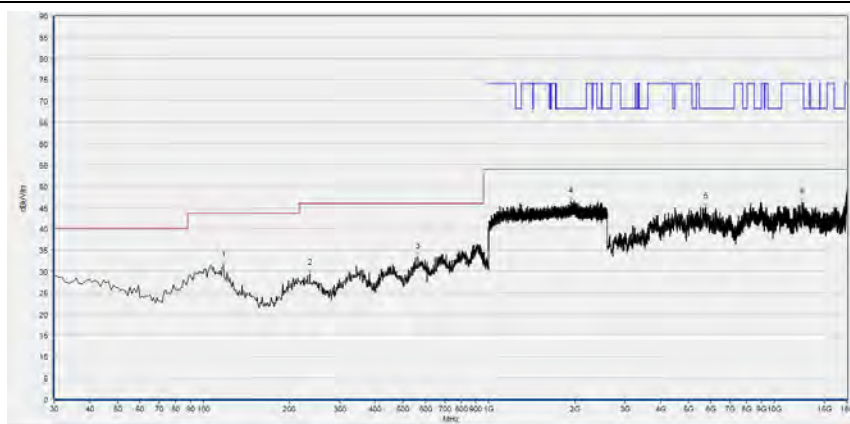
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 102



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
102.750	30.61	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
235.640	29.97	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
669.230	33.98	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2456.000	46.86	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5655.360	46.04	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10327.720	46.76	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

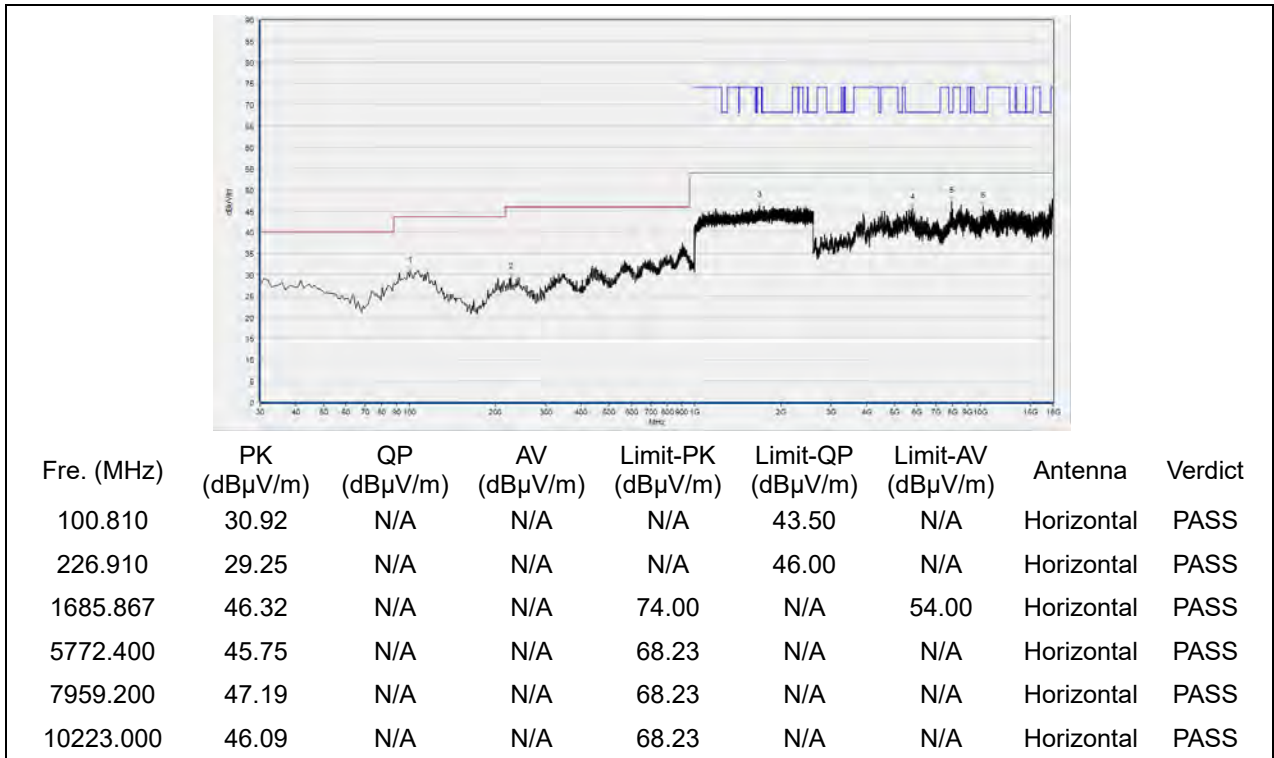
(Antenna Horizontal, 30MHz to 18GHz)



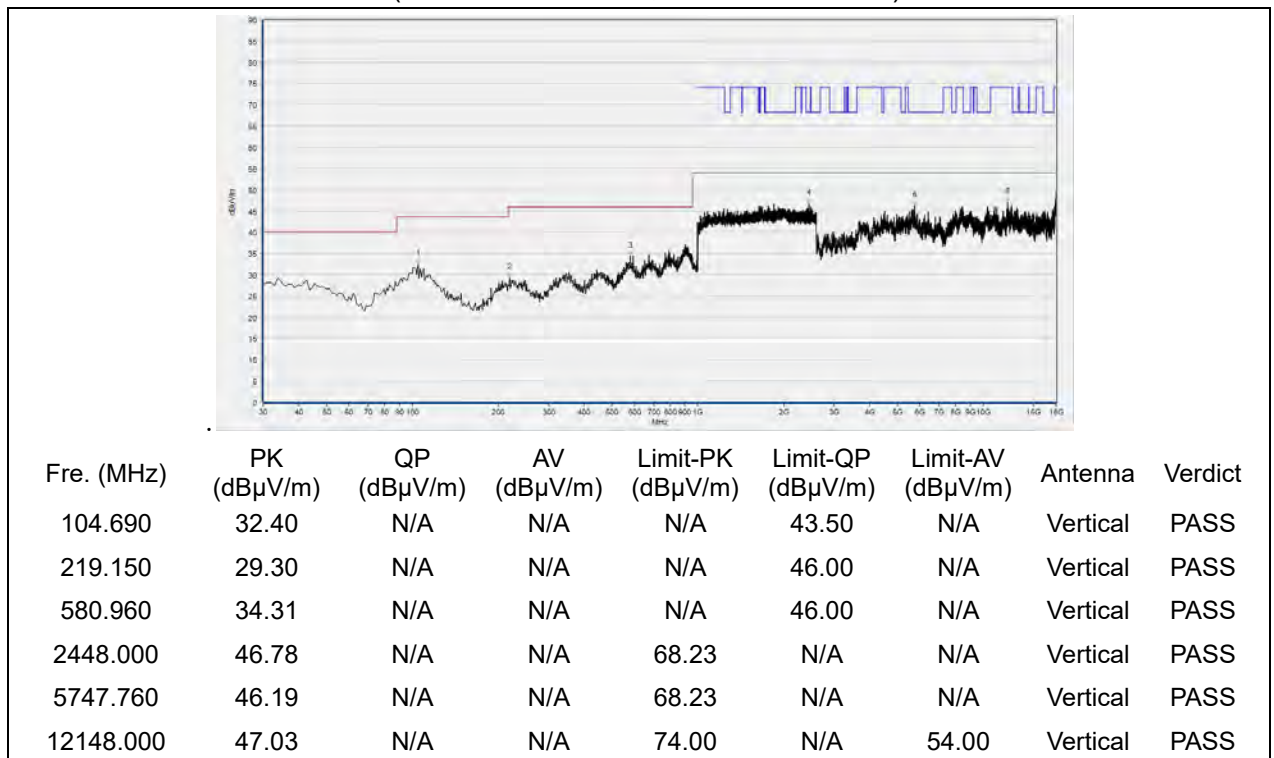
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
117.300	31.37	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
235.640	29.52	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
564.470	33.29	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1930.133	46.41	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5741.600	45.17	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12486.800	46.17	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 126

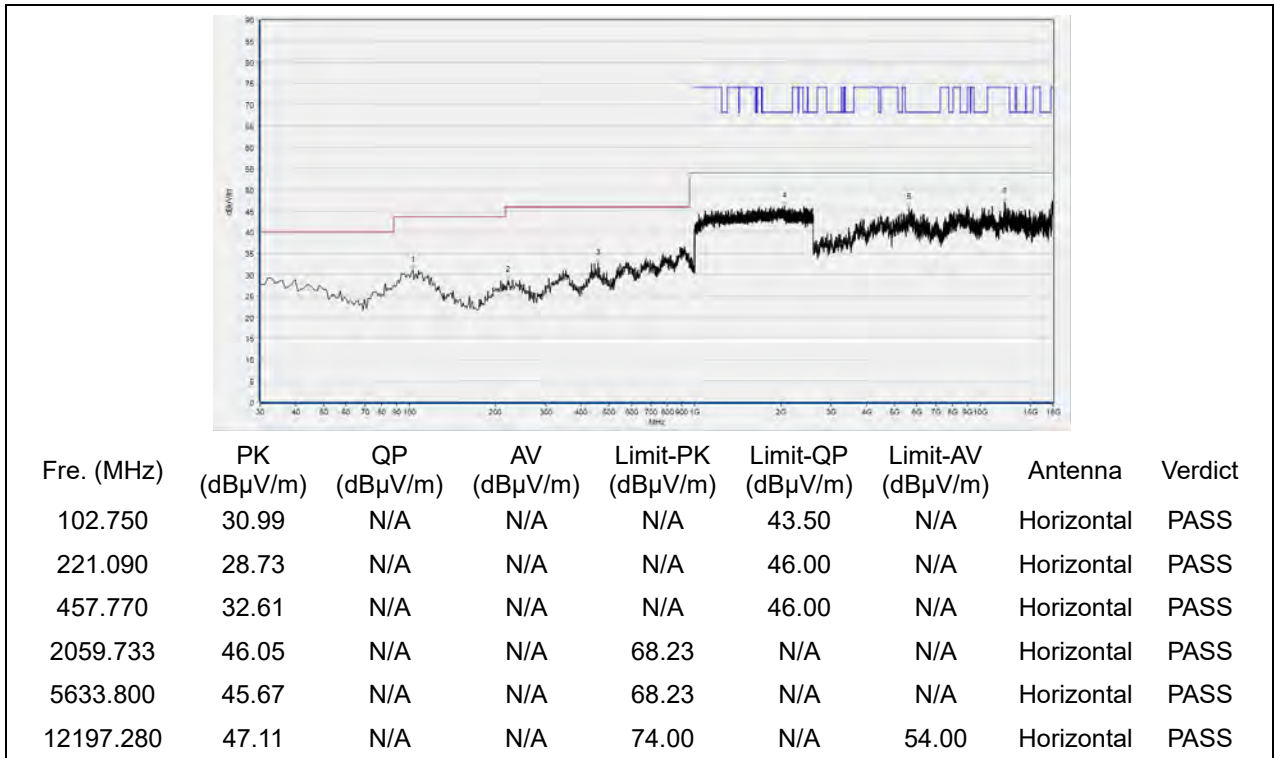


(Antenna Horizontal, 30MHz to 18GHz)

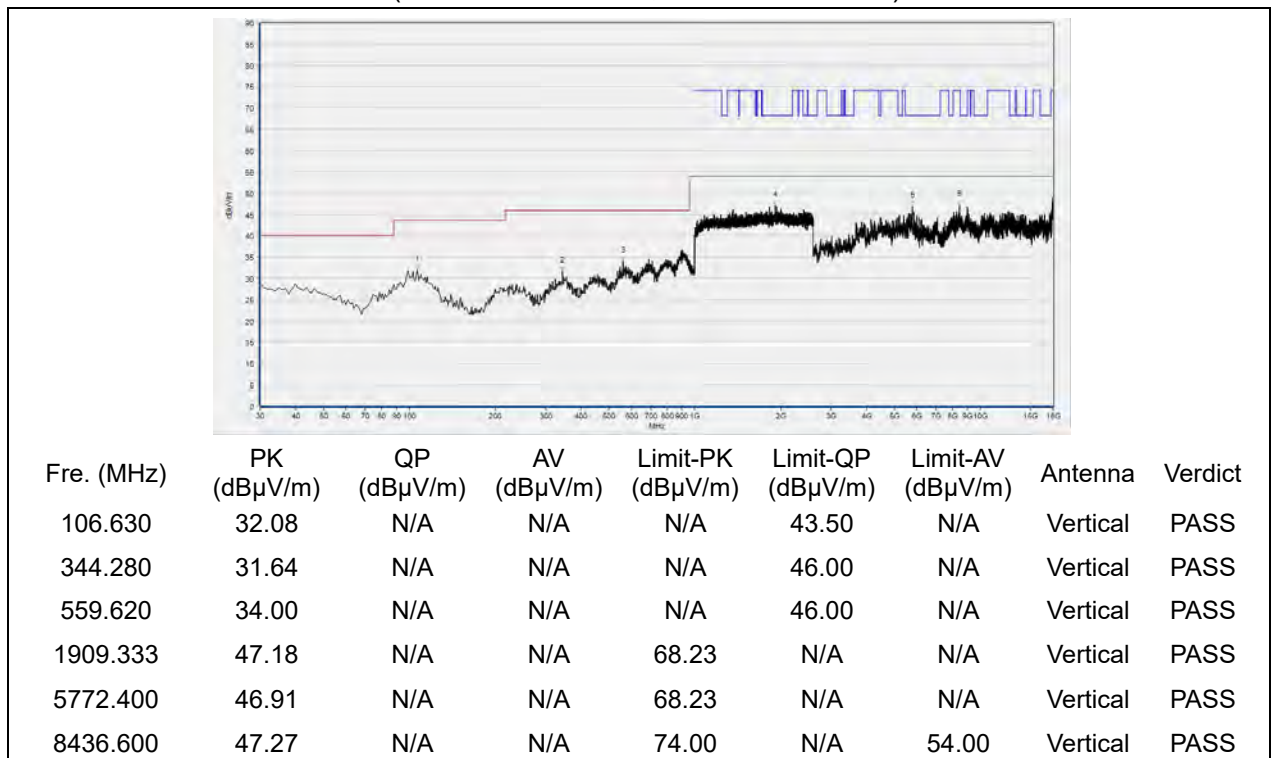


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 134



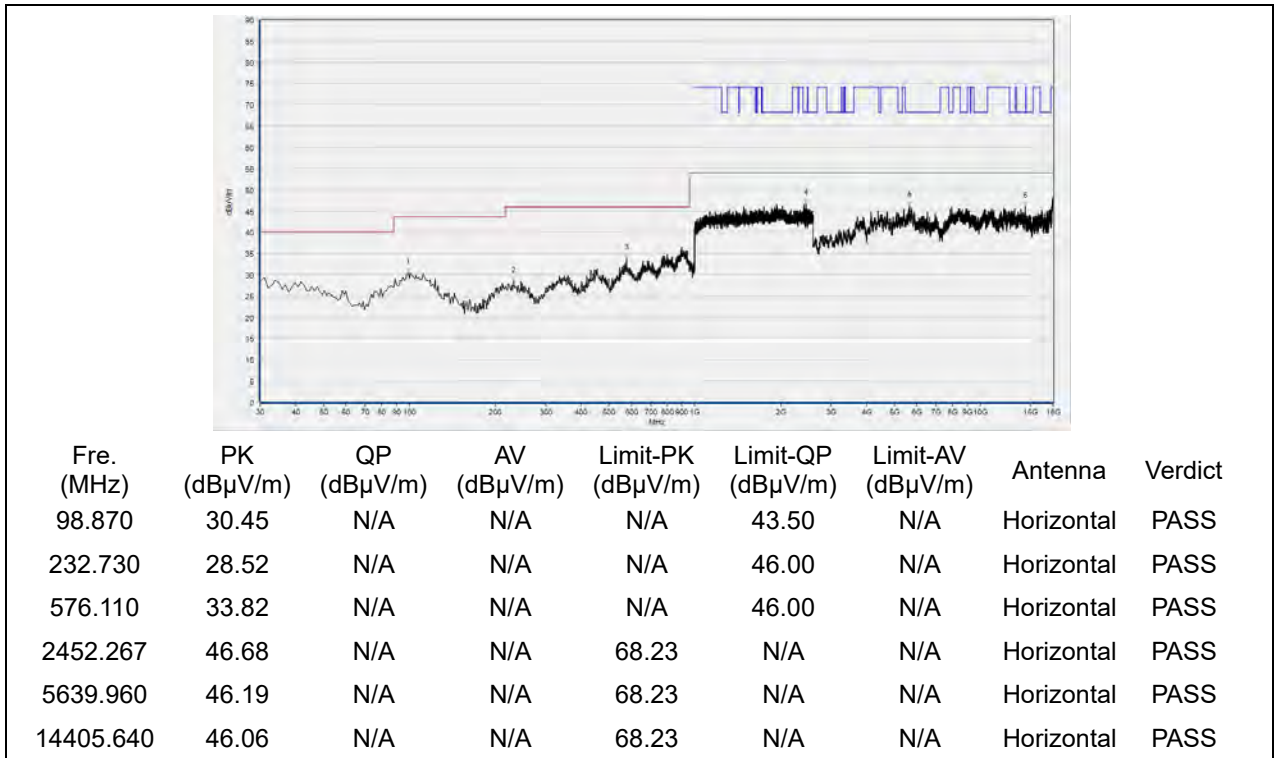
(Antenna Horizontal, 30MHz to 18GHz)



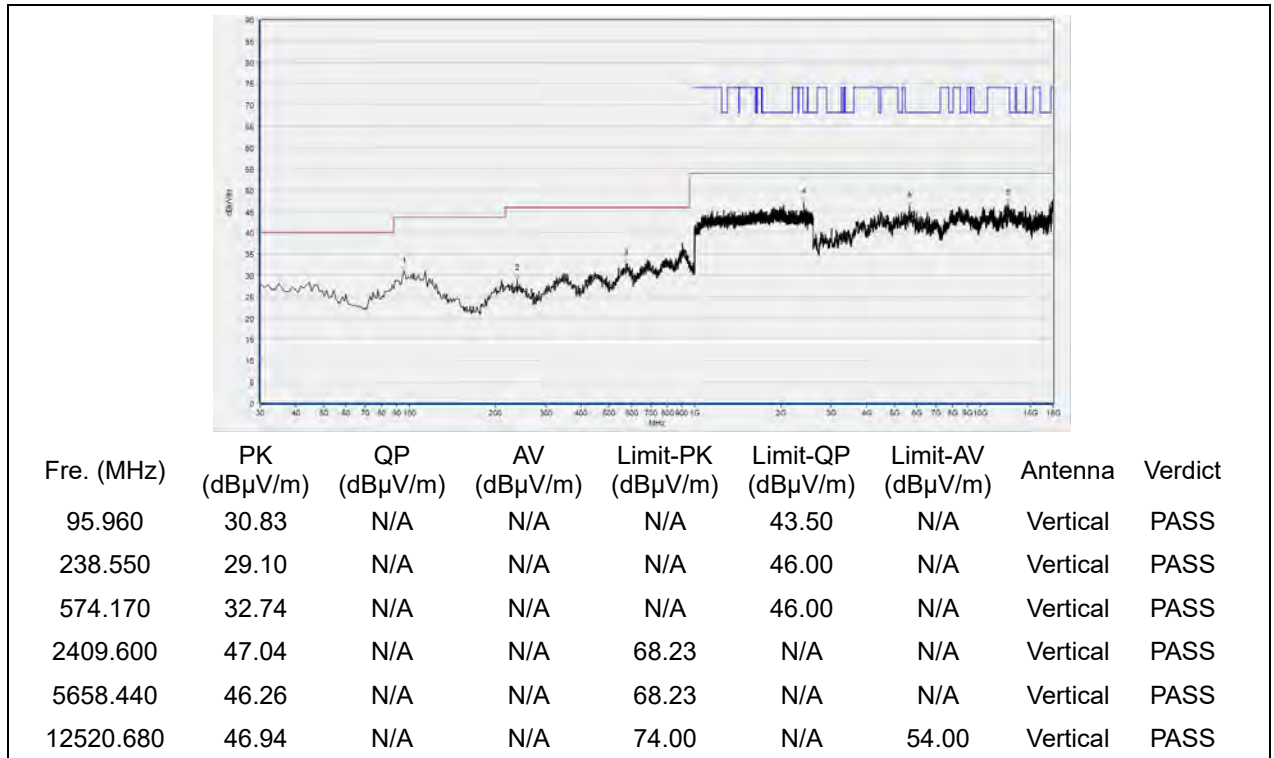
(Antenna Vertical, 30MHz to 18GHz)



Plot for Channel 151

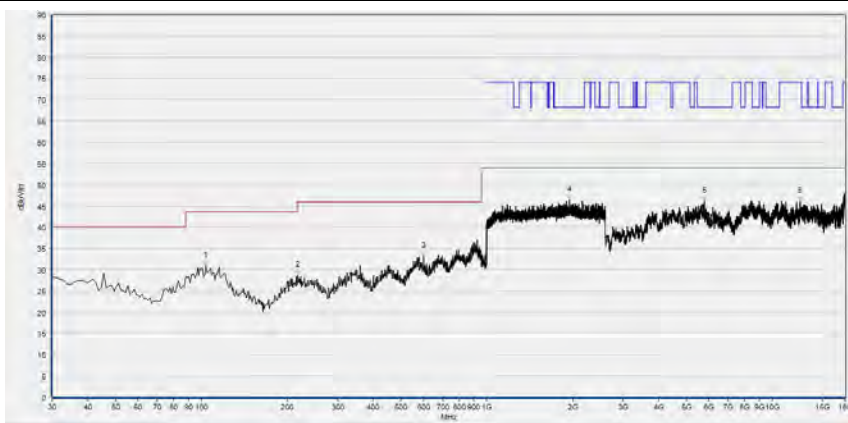


(Antenna Horizontal, 30MHz to 18GHz)



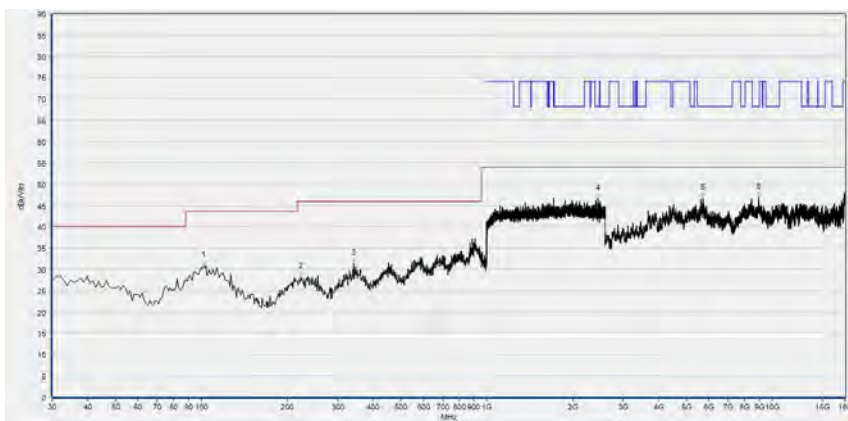
(Antenna Vertical, 30MHz to 18GHz)

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
103.720	30.90	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
218.180	28.66	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
600.360	33.22	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1941.333	46.36	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5775.480	46.09	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12505.280	46.13	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



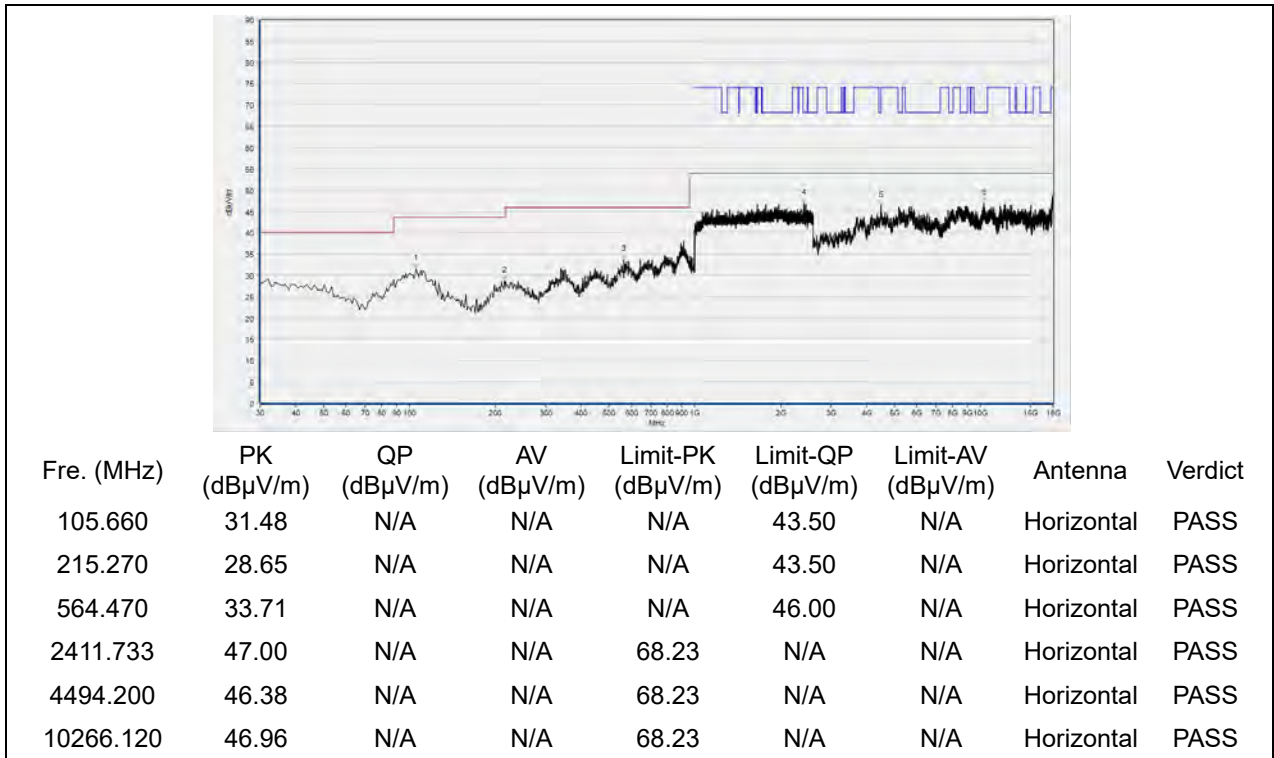
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
101.780	30.79	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
223.030	28.19	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
342.340	31.36	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2453.333	46.62	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5726.200	46.77	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8941.720	46.98	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

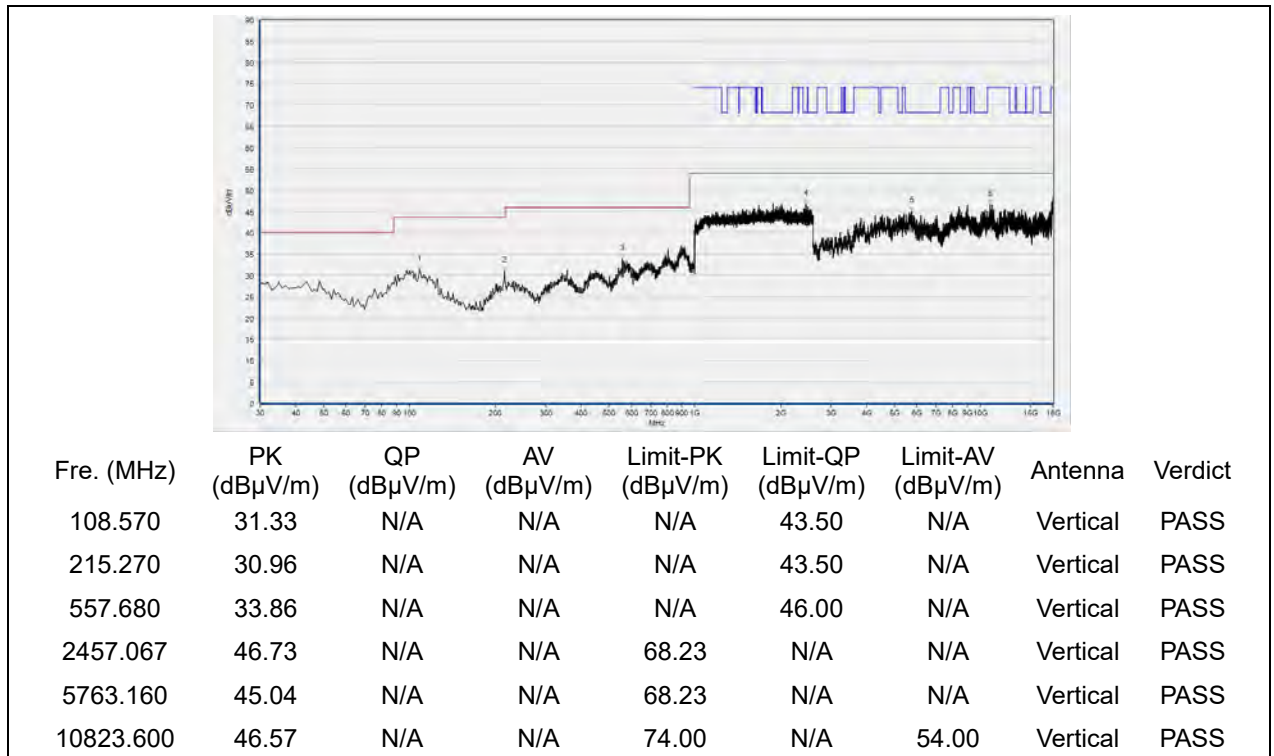


**802.11ac (VHT80) Mode**

Plot for Channel 42

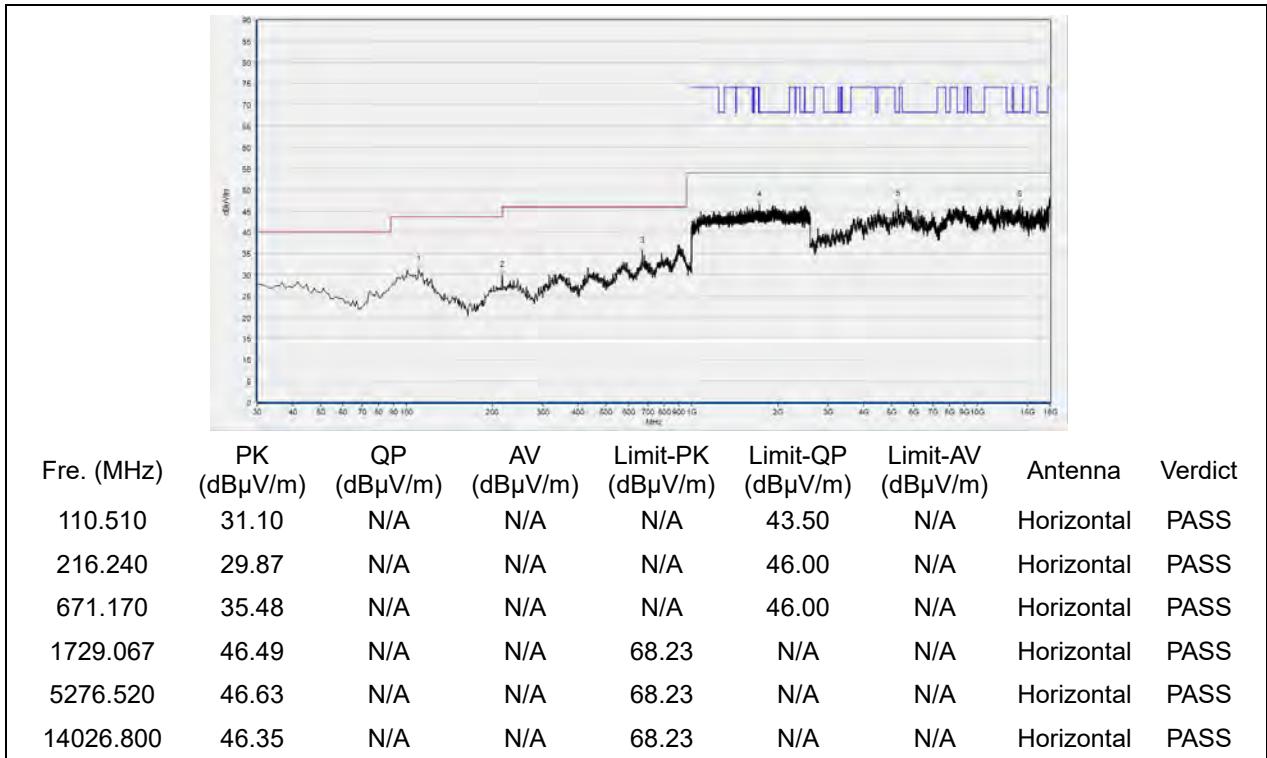


(Antenna Horizontal, 30MHz to 18GHz)

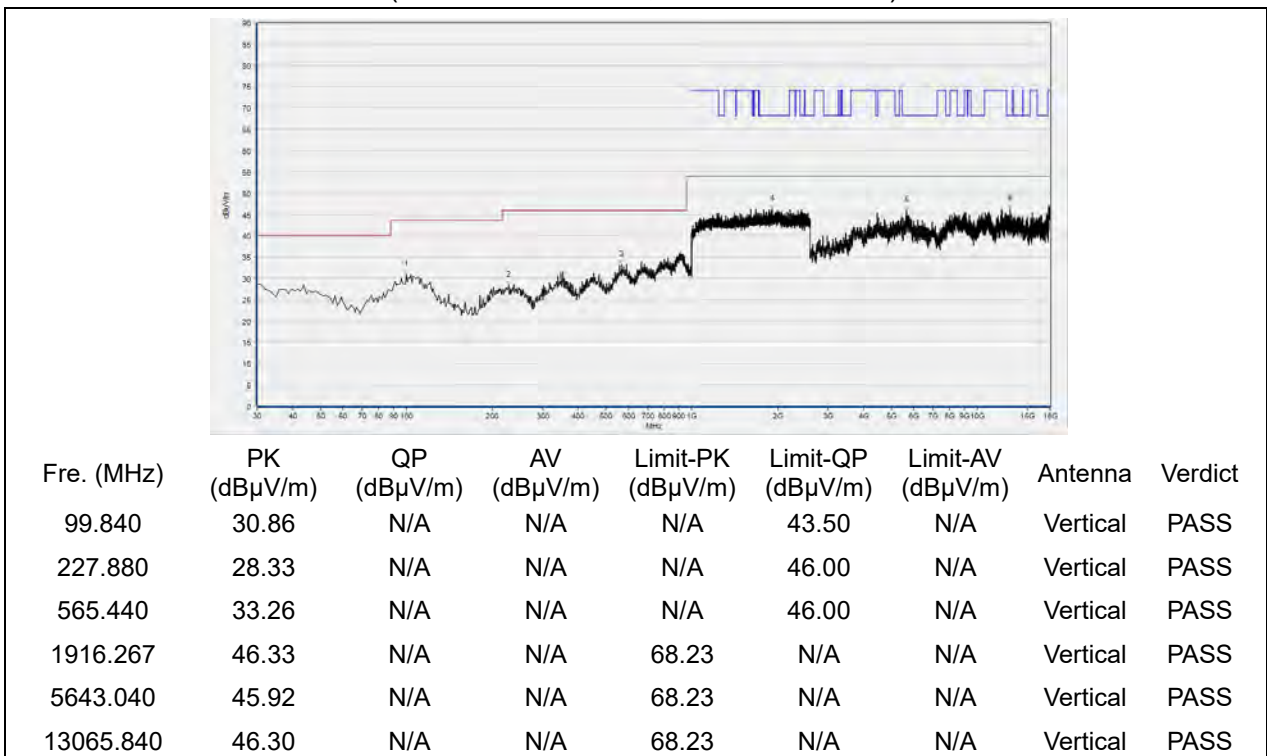


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 58

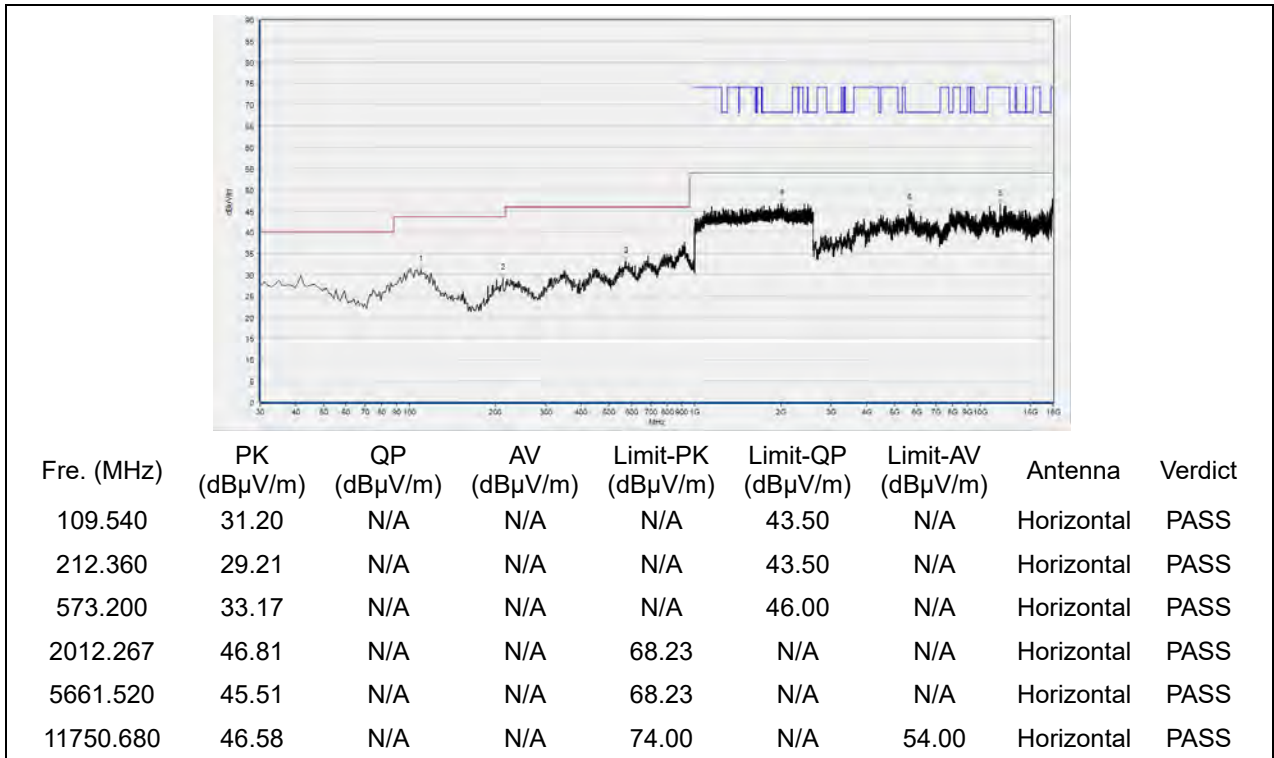


(Antenna Horizontal, 30MHz to 18GHz)

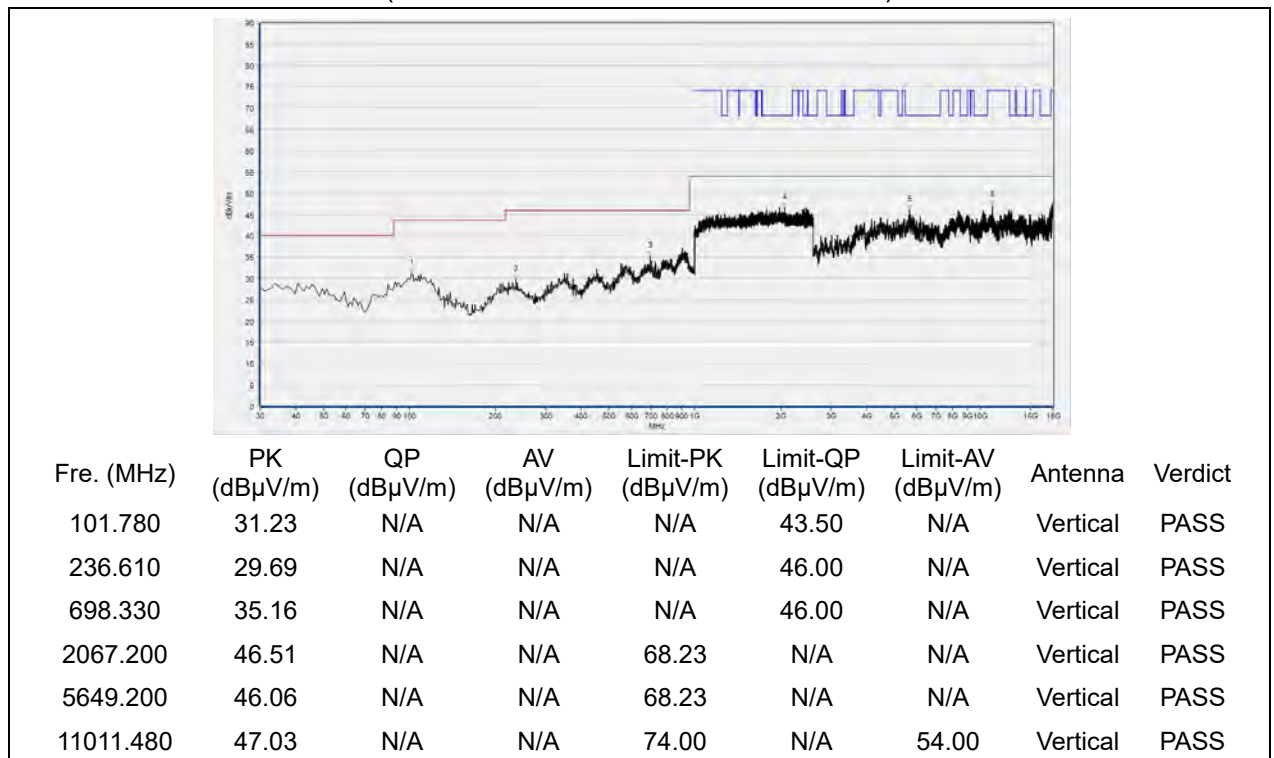


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 106

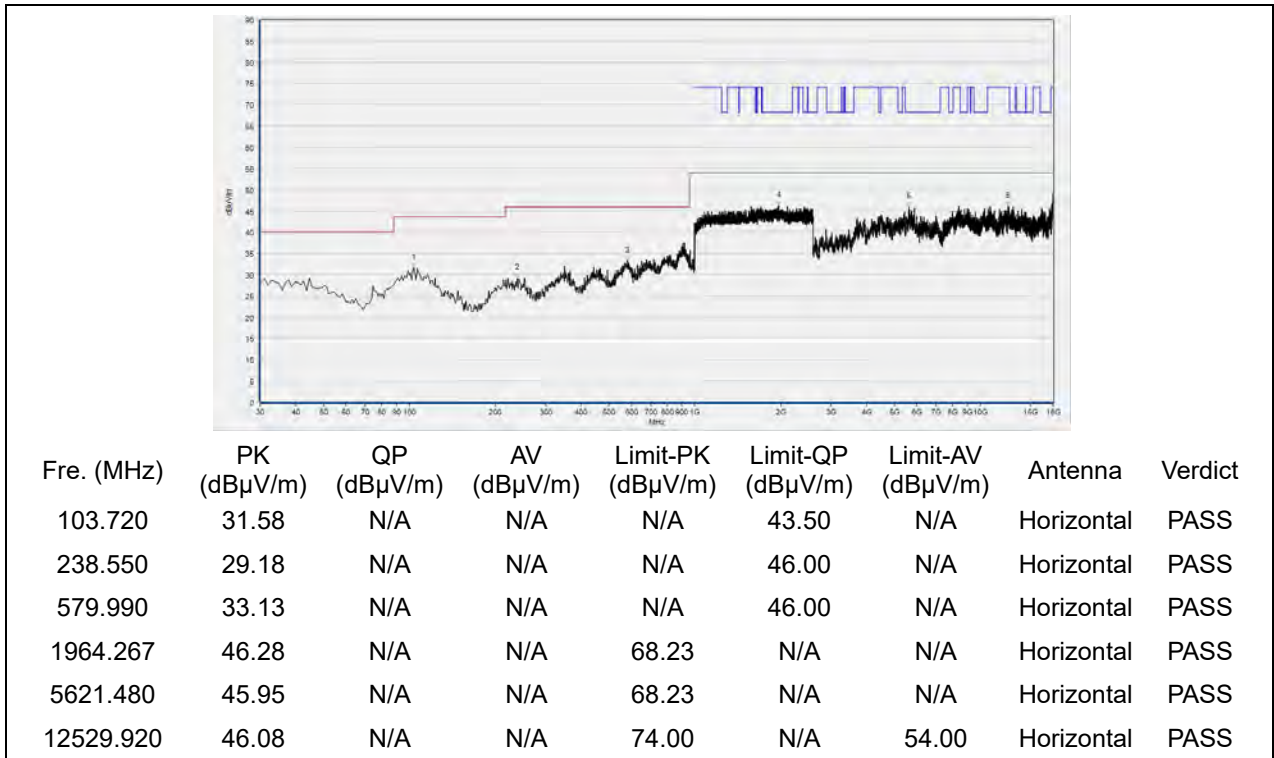


(Antenna Horizontal, 30MHz to 18GHz)

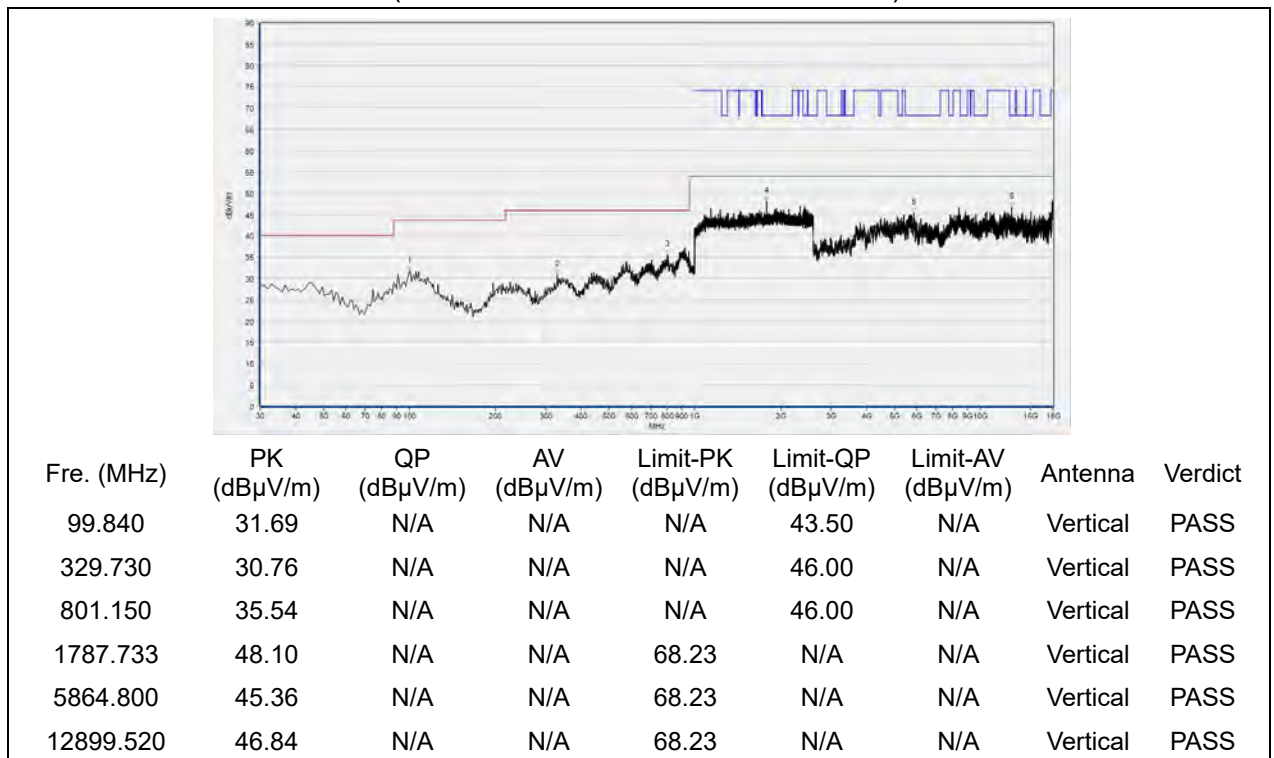


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 122

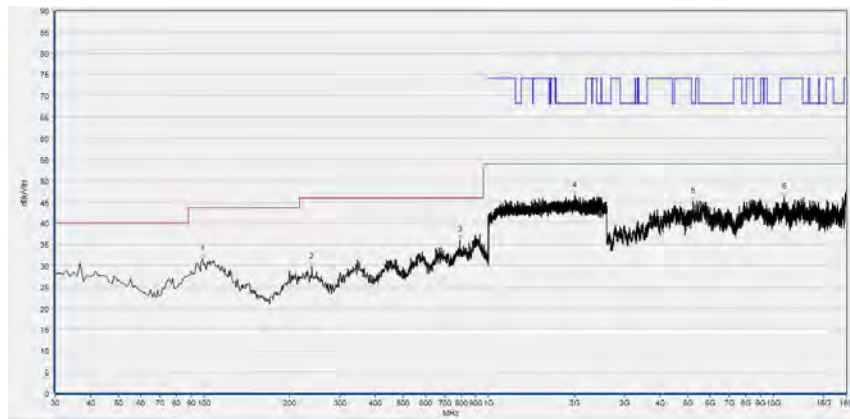


(Antenna Horizontal, 30MHz to 18GHz)



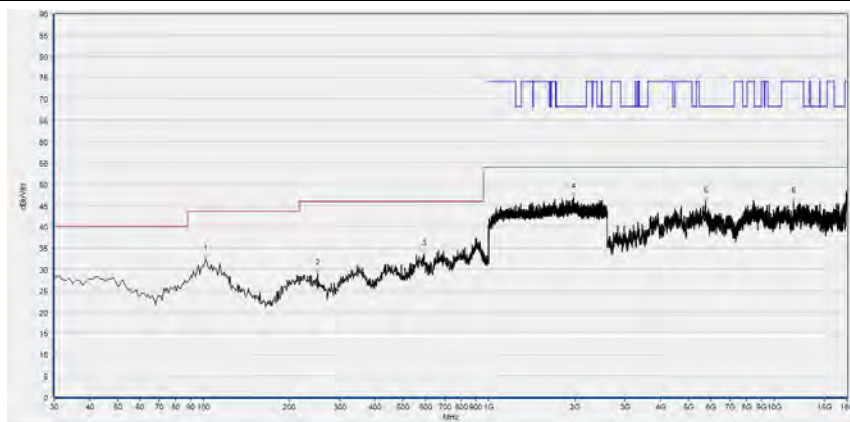
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 138



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
98.870	31.54	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
239.520	29.60	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
792.420	36.09	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2006.400	46.38	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5227.240	45.12	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10906.760	46.15	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

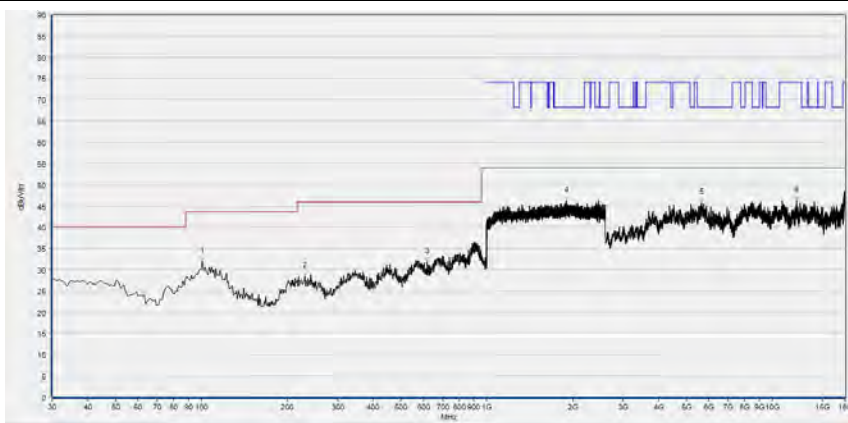
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
101.780	32.28	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
251.160	28.93	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
593.570	33.44	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1974.400	46.97	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5757.000	45.90	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
11676.760	45.86	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

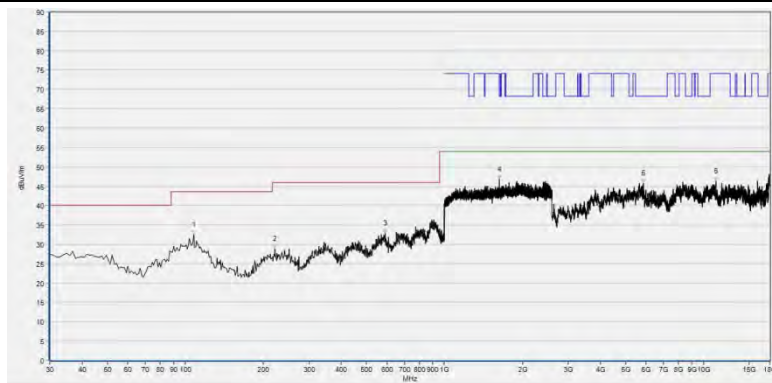
(Antenna Vertical, 30MHz to 18GHz)

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
100.810	32.03	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
230.790	28.50	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
618.790	31.85	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1901.867	46.19	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5649.200	45.70	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12178.800	46.31	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
107.600	32.59	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
222.060	28.77	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
590.660	32.84	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1625.067	46.74	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5855.560	45.68	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
11140.840	46.26	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

————— END OF REPORT —————