

PSD NVNT ac20 5260MHz Ant1



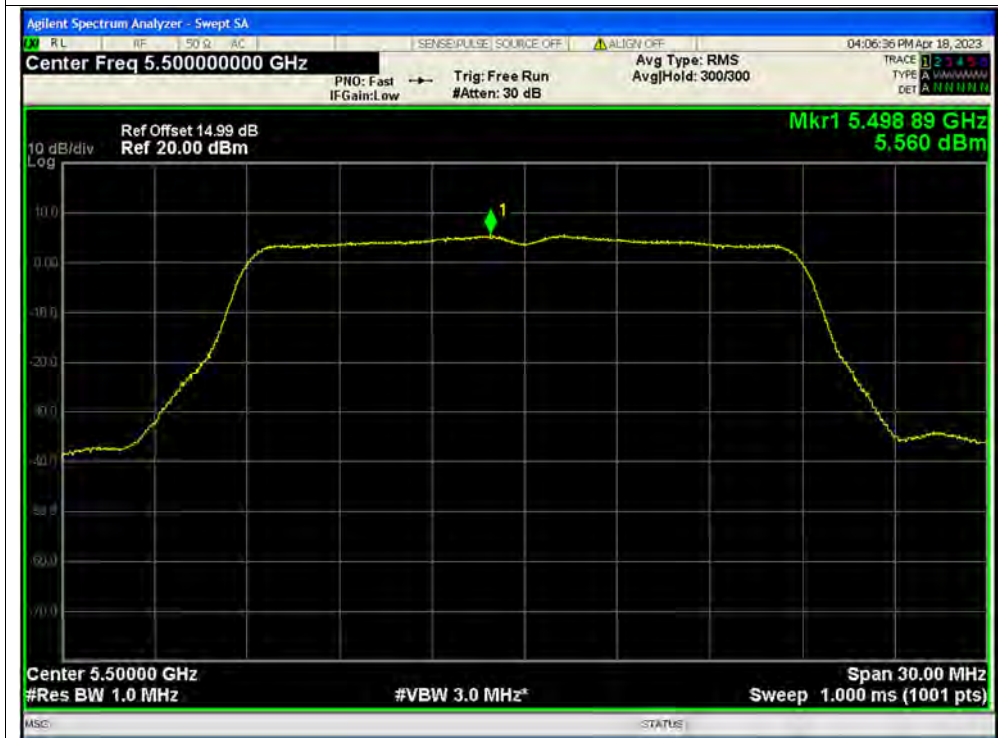
PSD NVNT ac20 5300MHz Ant1



PSD NVNT ac20 5320MHz Ant1



PSD NVNT ac20 5500MHz Ant1





PSD NVNT ac20 5600MHz Ant1

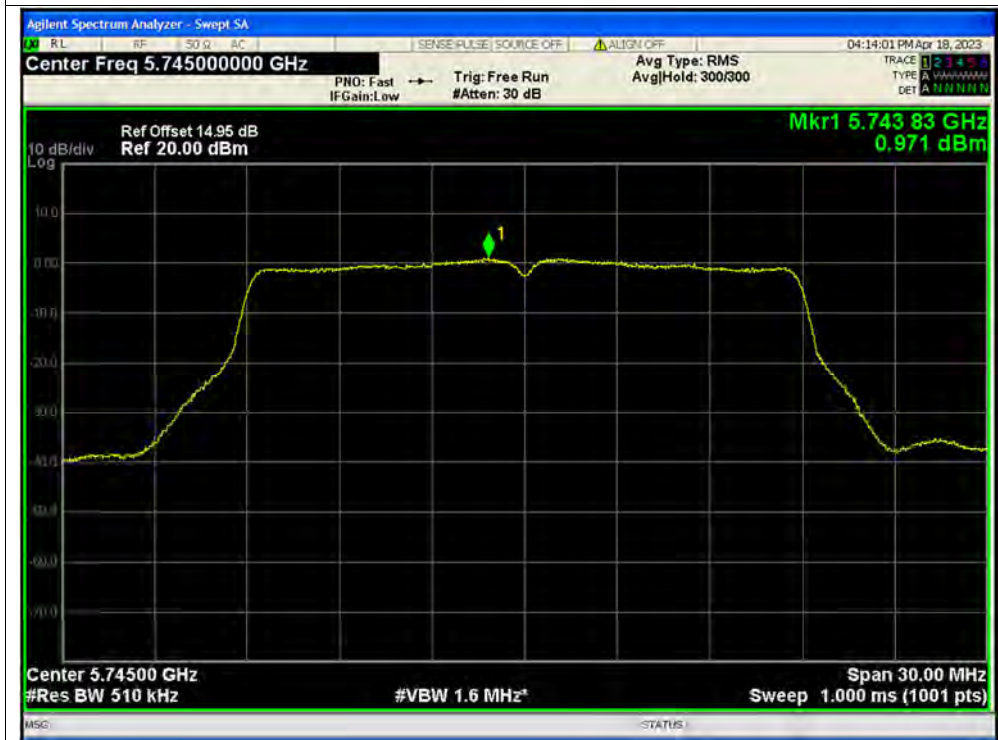


PSD NVNT ac20 5720MHz Ant1





PSD NVNT ac20 5745MHz Ant1



PSD NVNT ac20 5785MHz Ant1



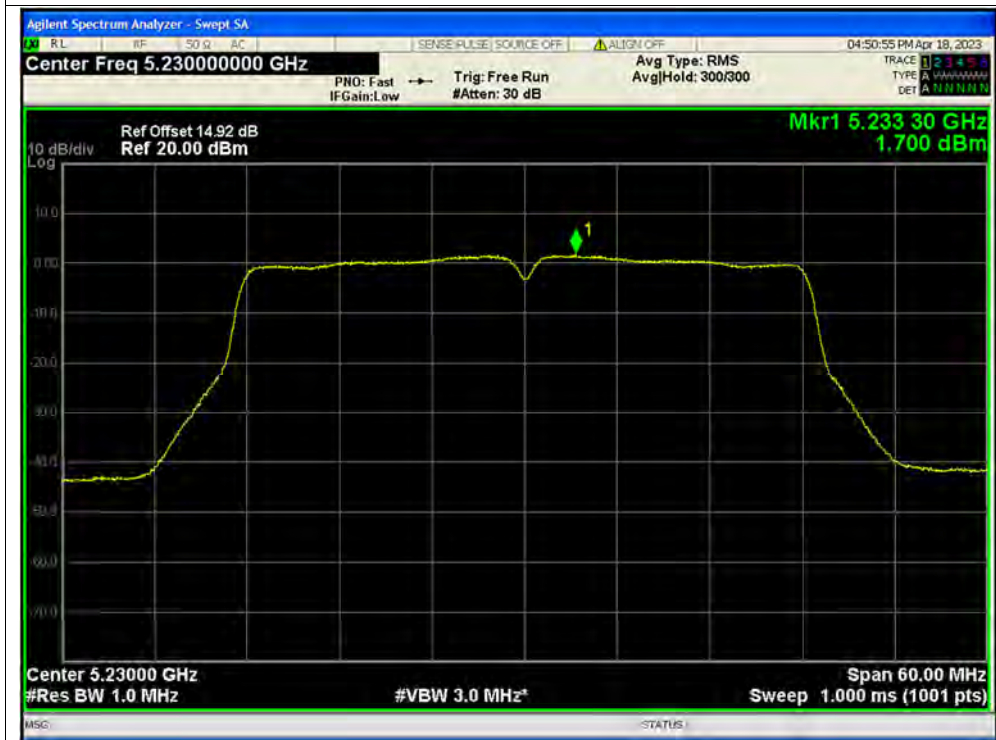
PSD NVNT ac20 5825MHz Ant1



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 5670MHz 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 4.45V	a	5180	Ant1	5179.995	-5000	-0.97	25	Pass
20C 3.65V	a	5180	Ant1	5179.994	-6000	-1.16	25	Pass
0C 3.87V	a	5180	Ant1	5179.994	-6000	-1.16	25	Pass
10C 3.87V	a	5180	Ant1	5179.994	-6000	-1.16	25	Pass
20C 3.87V	a	5180	Ant1	5179.993	-7000	-1.35	25	Pass
30C 3.87V	a	5180	Ant1	5179.993	-7000	-1.35	25	Pass
40C 3.87V	a	5180	Ant1	5179.993	-7000	-1.35	25	Pass
50C 3.87V	a	5180	Ant1	5179.993	-7000	-1.35	25	Pass
20C 4.45V	a	5260	Ant1	5259.993	-7000	-1.33	25	Pass
20C 3.65V	a	5260	Ant1	5259.993	-7000	-1.33	25	Pass
0C 3.87V	a	5260	Ant1	5259.992	-8000	-1.52	25	Pass
10C 3.87V	a	5260	Ant1	5259.992	-8000	-1.52	25	Pass
20C 3.87V	a	5260	Ant1	5259.992	-8000	-1.52	25	Pass
30C 3.87V	a	5260	Ant1	5259.992	-8000	-1.52	25	Pass
40C 3.87V	a	5260	Ant1	5259.992	-8000	-1.52	25	Pass
50C 3.87V	a	5260	Ant1	5259.992	-8000	-1.52	25	Pass
20C 4.45V	a	5500	Ant1	5499.991	-9000	-1.64	25	Pass
20C 3.65V	a	5500	Ant1	5499.991	-9000	-1.64	25	Pass
0C 3.87V	a	5500	Ant1	5499.99	-10000	-1.82	25	Pass
10C 3.87V	a	5500	Ant1	5499.99	-10000	-1.82	25	Pass
20C 3.87V	a	5500	Ant1	5499.99	-10000	-1.82	25	Pass
30C 3.87V	a	5500	Ant1	5499.99	-10000	-1.82	25	Pass
40C 3.87V	a	5500	Ant1	5499.99	-10000	-1.82	25	Pass
50C 3.87V	a	5500	Ant1	5499.99	-10000	-1.82	25	Pass
20C 4.45V	a	5745	Ant1	5744.99	-10000	-1.74	25	Pass
20C 3.65V	a	5745	Ant1	5744.99	-10000	-1.74	25	Pass
0C 3.87V	a	5745	Ant1	5744.99	-10000	-1.74	25	Pass
10C 3.87V	a	5745	Ant1	5744.99	-10000	-1.74	25	Pass
20C 3.87V	a	5745	Ant1	5744.99	-10000	-1.74	25	Pass
30C 3.87V	a	5745	Ant1	5744.99	-10000	-1.74	25	Pass
40C 3.87V	a	5745	Ant1	5744.989	-11000	-1.91	25	Pass
50C 3.87V	a	5745	Ant1	5744.989	-11000	-1.91	25	Pass



A.6. Dynamic Frequency Selection

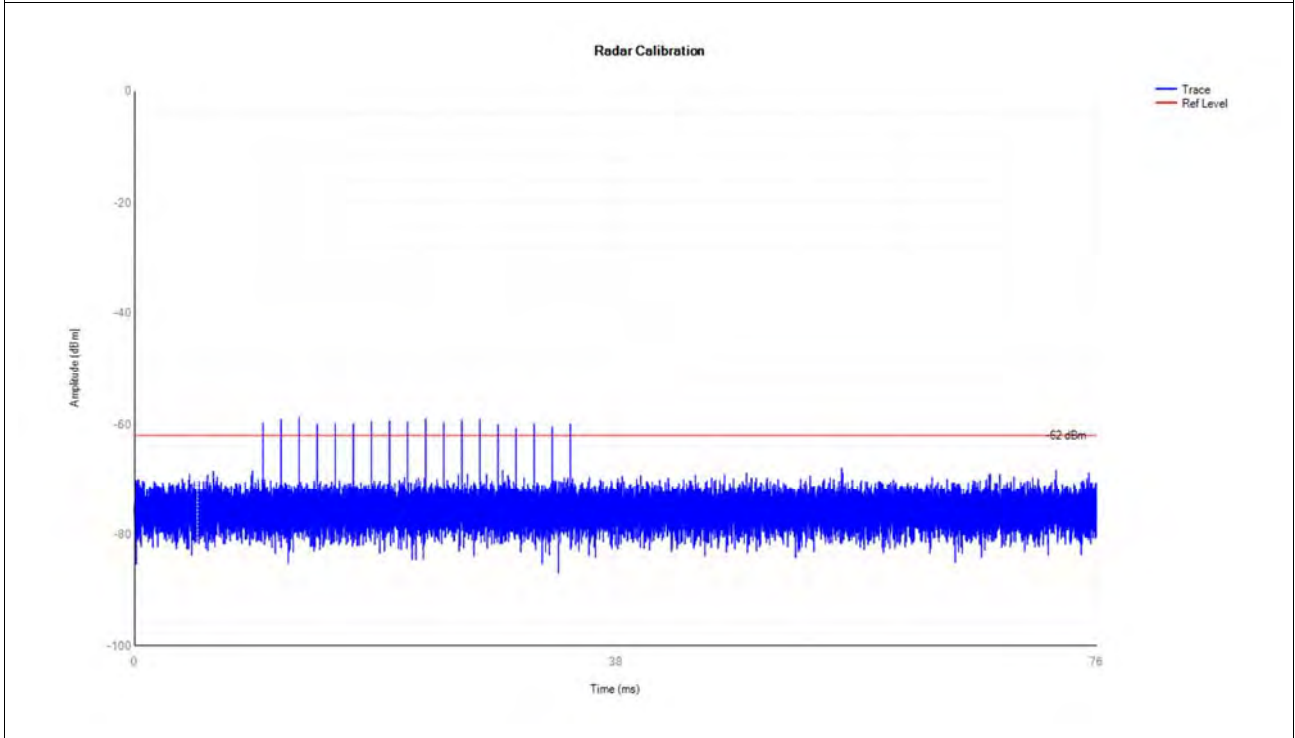
Detection Thresholds

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

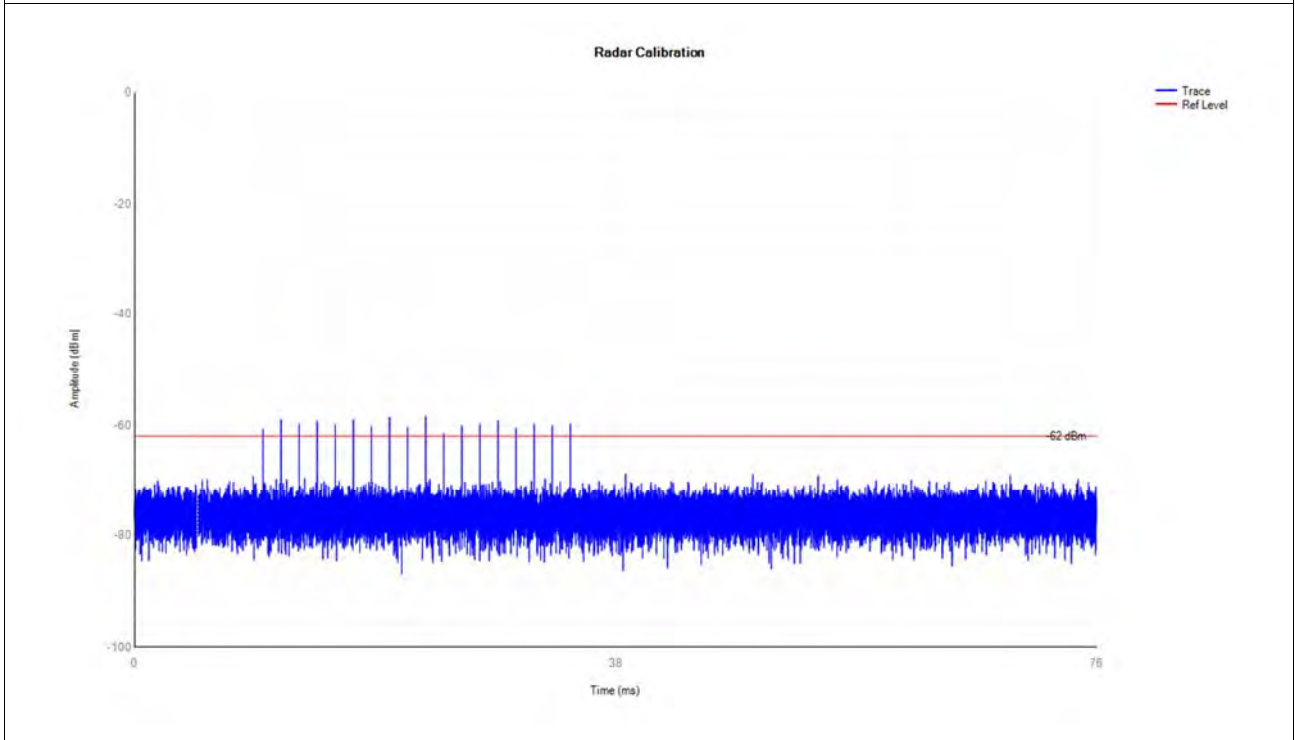


Test Graphs

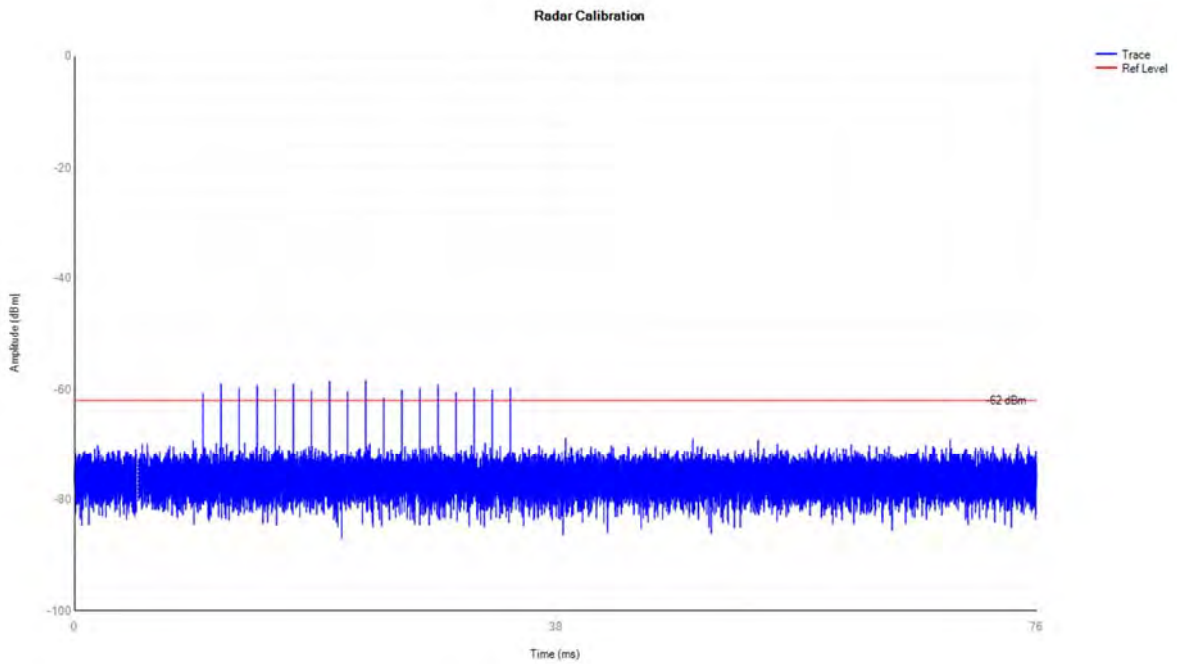
5320MHz DFS_FCC_T0



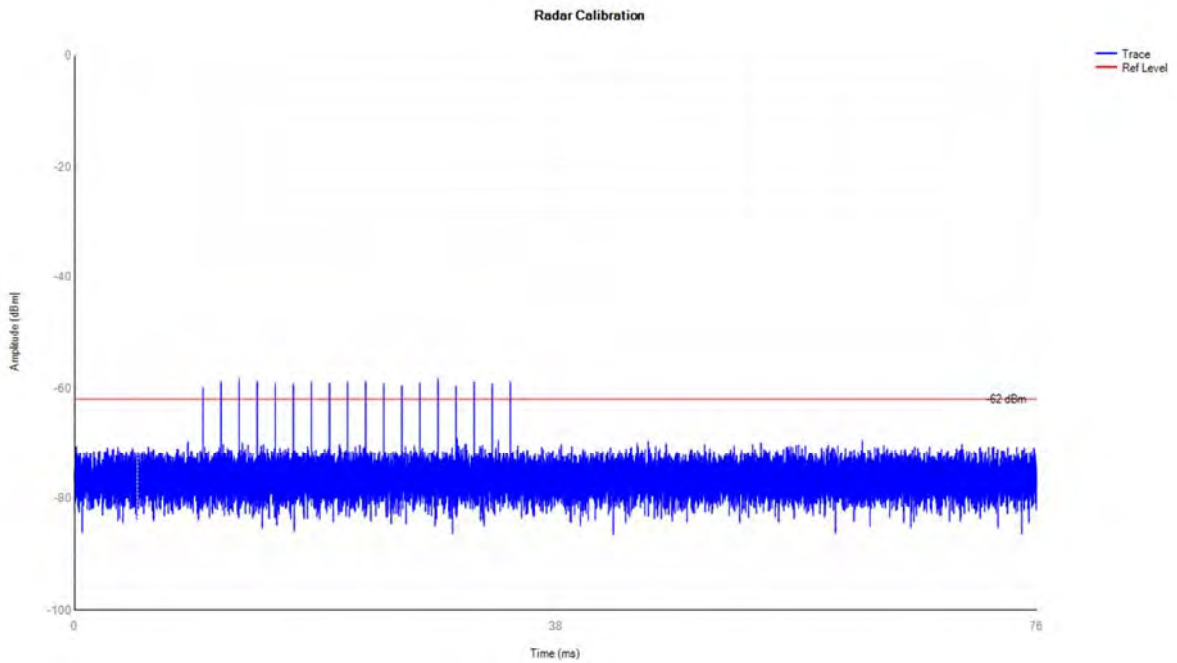
5500MHz DFS_FCC_T0



5290MHz DFS_FCC_T0



5530MHz DFS_FCC_T0





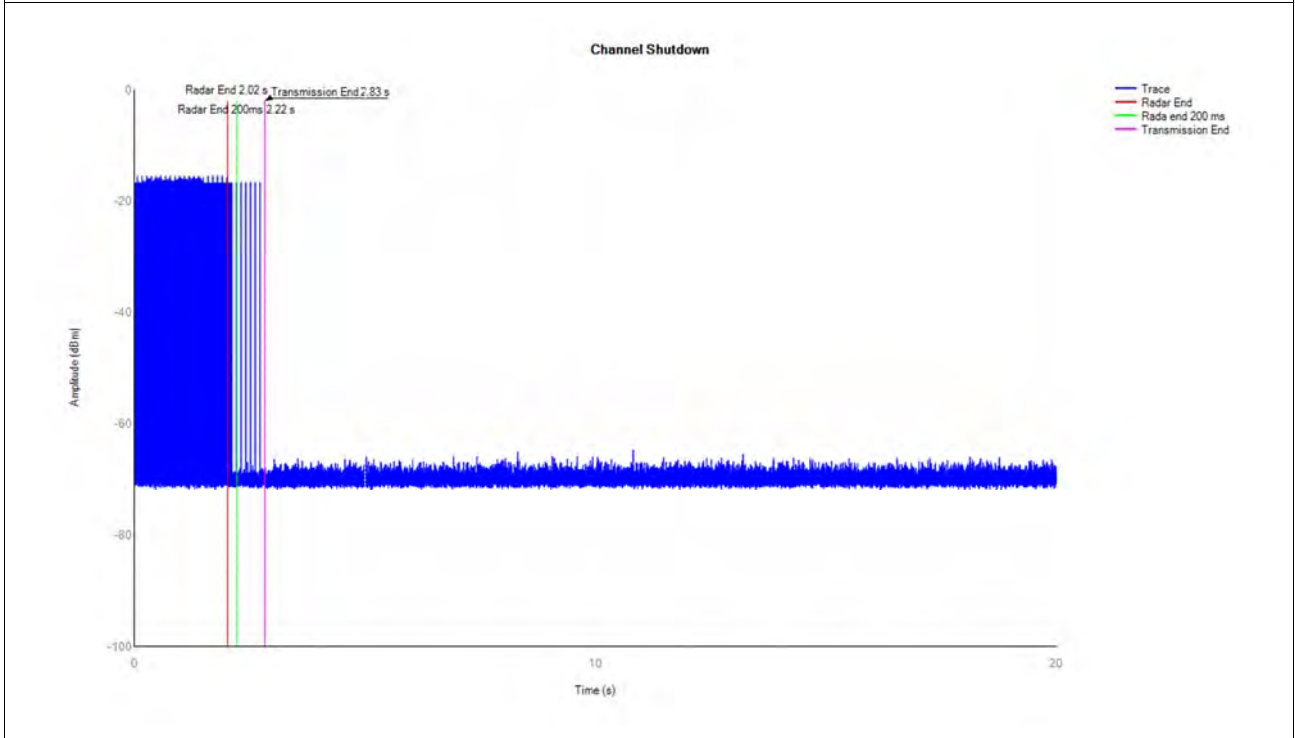
Channel Move Time and Channel Closing Transmission Time

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	0.803	10	0.042	0.26	0.007	0.06	Pass
a	5500	0.889	10	0.049	0.26	0.009	0.06	Pass
ac80	5290	0.849	10	0.055	0.26	0.009	0.06	Pass
ac80	5530	0.757	10	0.023	0.26	0.007	0.06	Pass

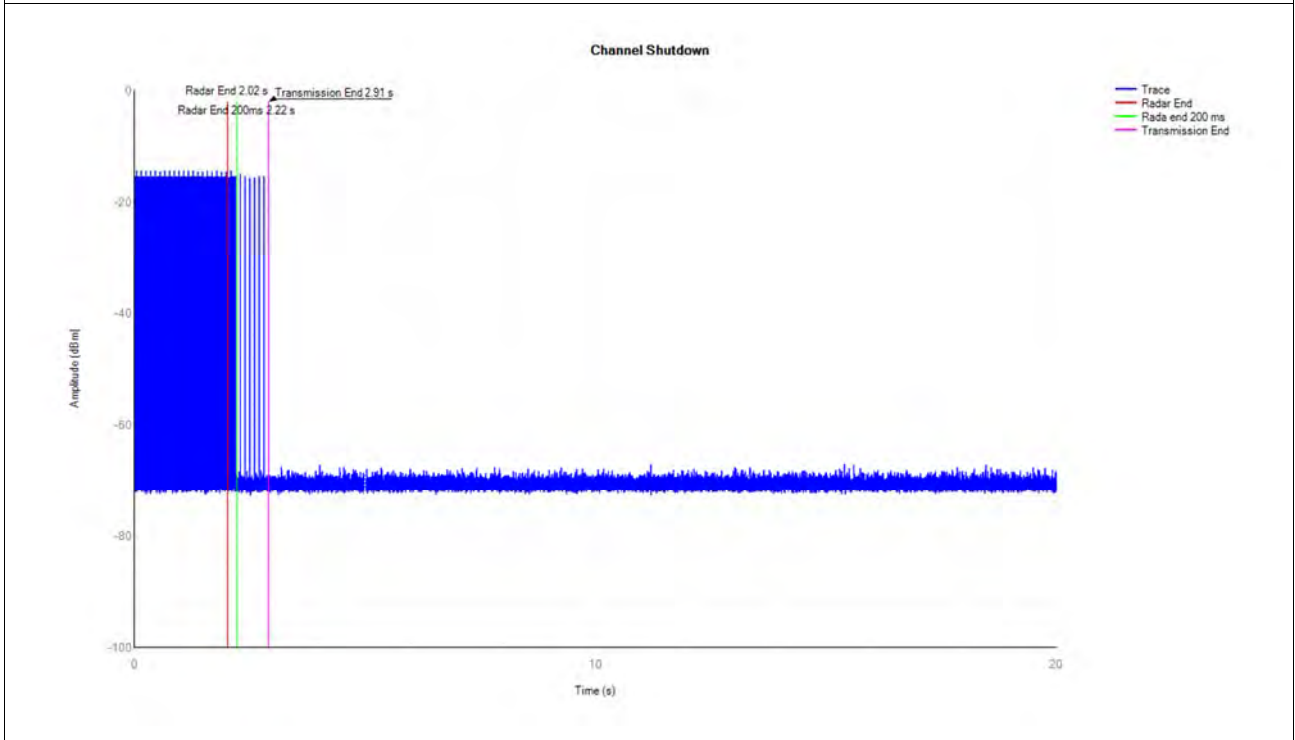


Test Graphs

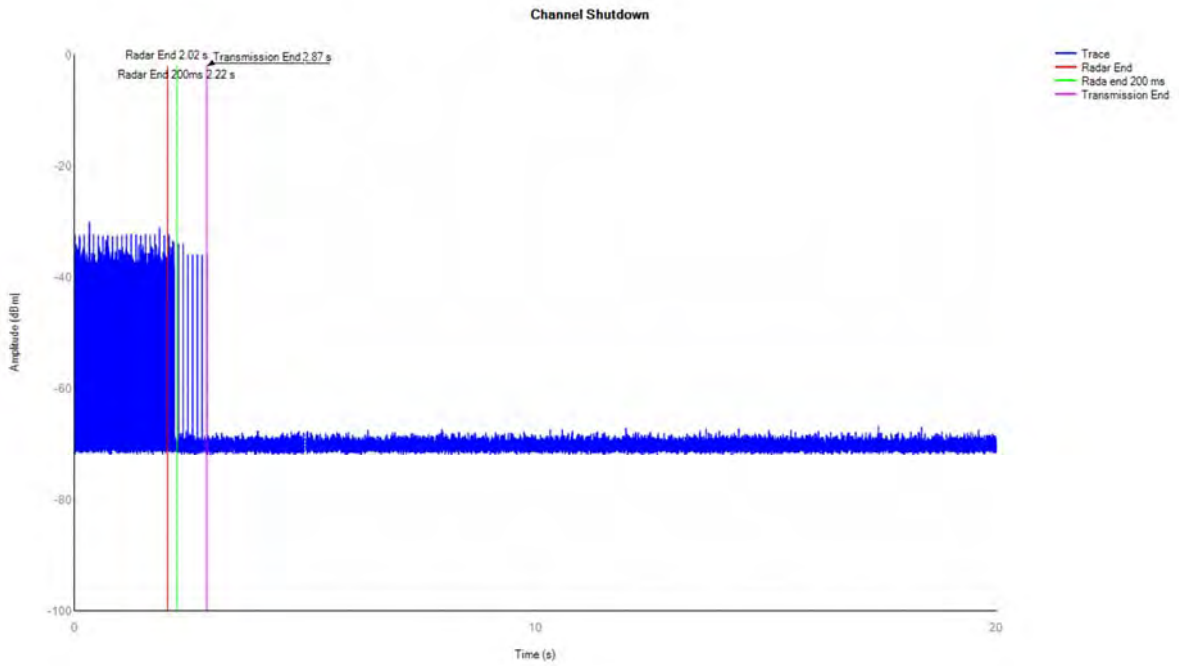
a 5320MHz Shutdown



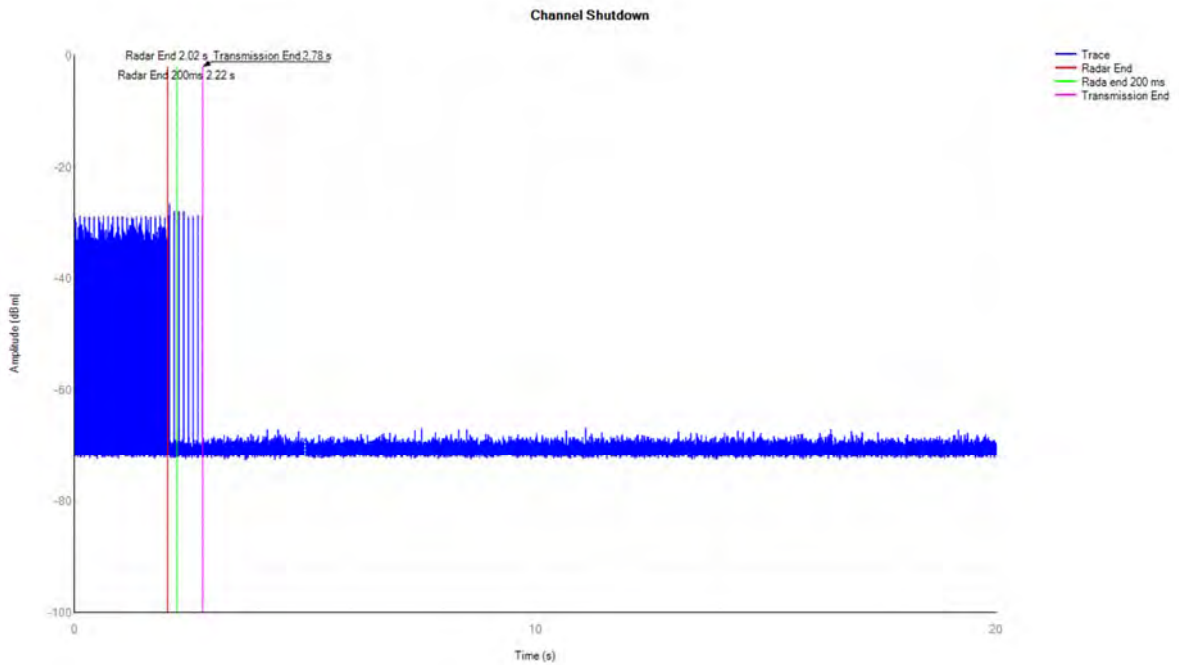
a 5500MHz Shutdown



ac80 5290MHz Shutdown



ac80 5530MHz Shutdown





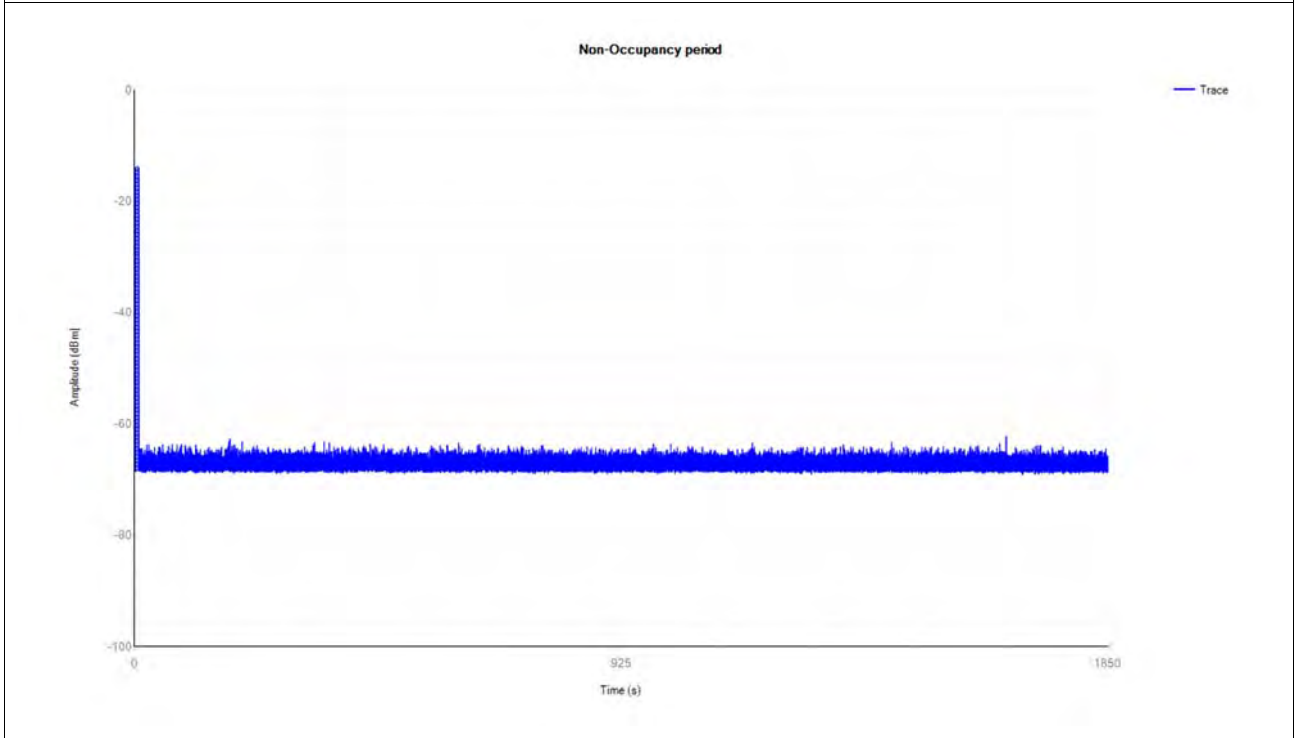
Non-Occupancy Period

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

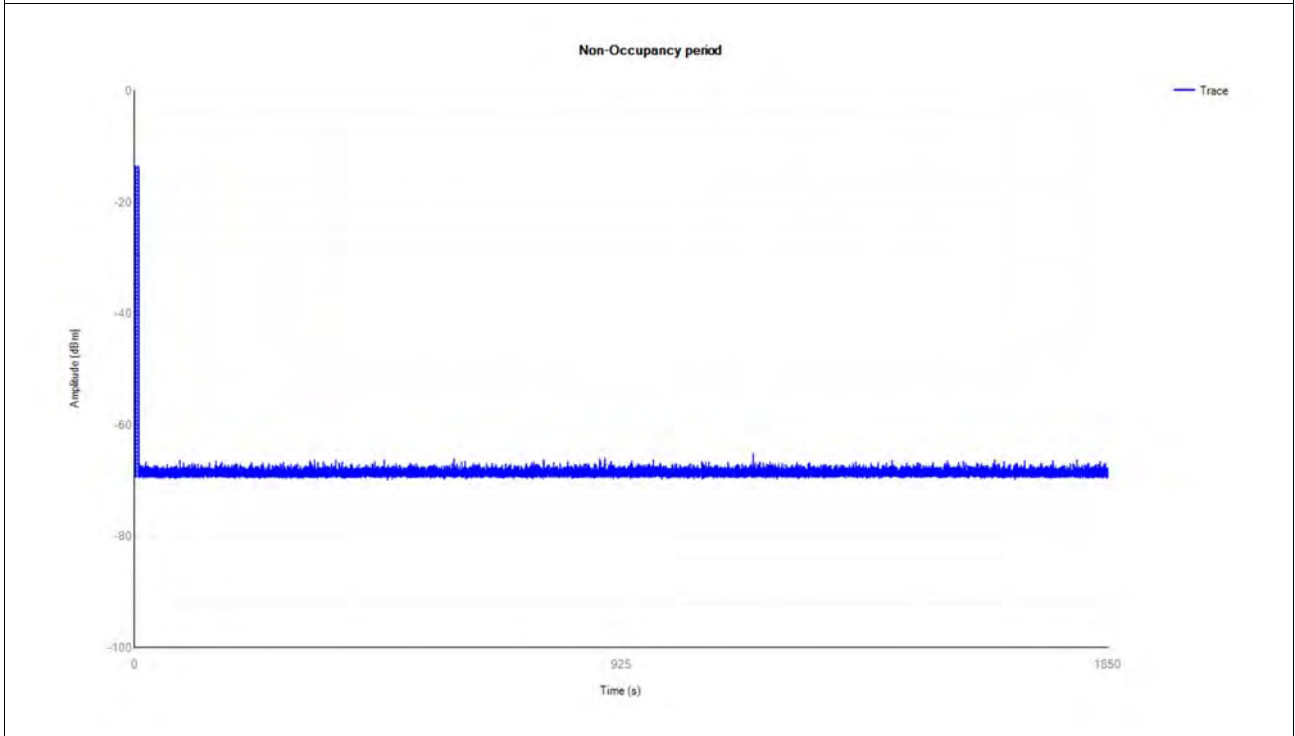


Test Graphs

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 + Earphone + WIFI TX

Test voltage: AC 120V/60Hz

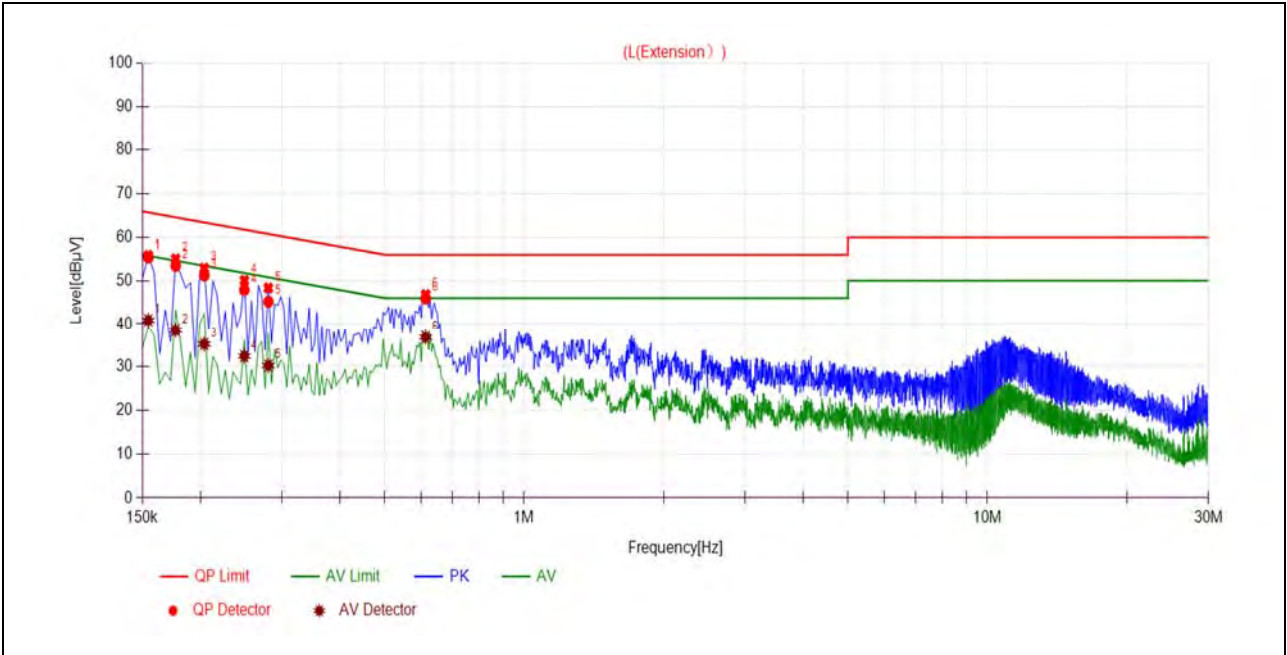
The measurement results are obtained as below:

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

U_R : Receiver Reading

A_{Factor} : Voltage division factor of LISN

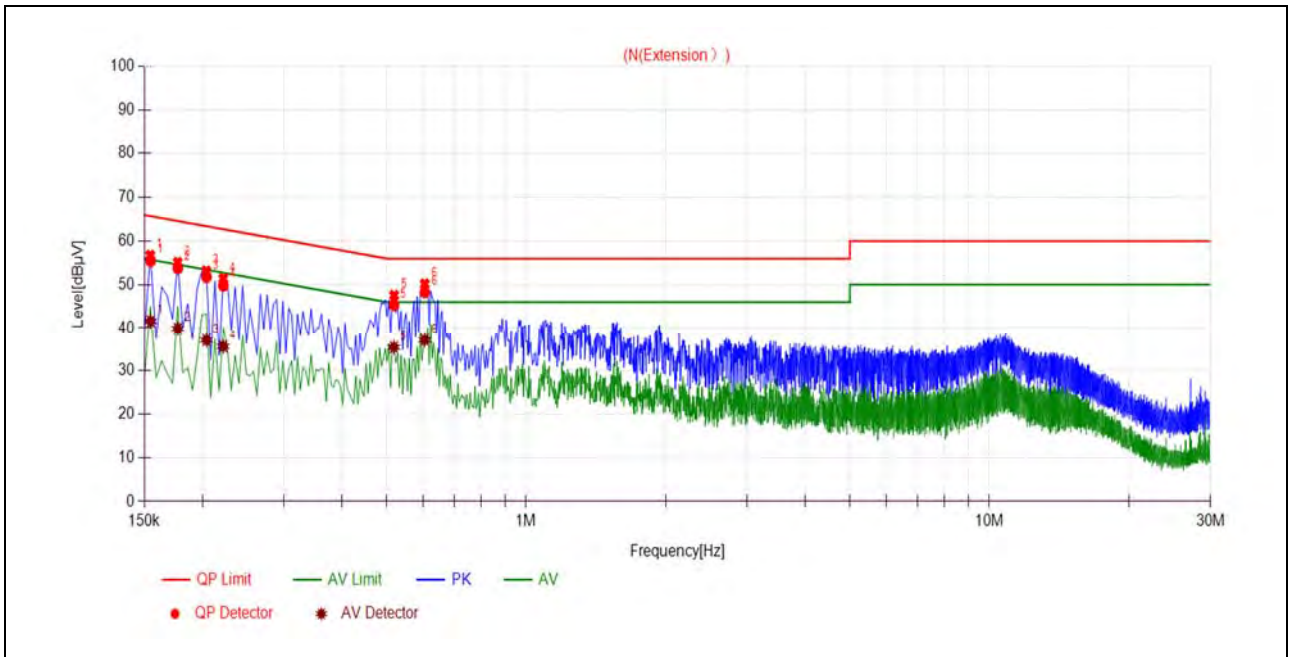
B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1545	55.38	40.85	65.75	55.75	Line	PASS
2	0.1770	53.43	38.47	64.63	54.63		PASS
3	0.2040	51.25	35.26	63.45	53.45		PASS
4	0.2489	47.90	32.47	61.79	51.79		PASS
5	0.2806	45.17	30.27	60.80	50.80		PASS
6	0.6130	45.90	36.85	56.00	46.00		PASS





(N Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1547	55.43	41.59	65.75	55.75	Neutral	PASS
2	0.1771	53.77	39.84	64.62	54.62		PASS
3	0.2042	51.75	37.10	63.44	53.44		PASS
4	0.2220	49.79	35.63	62.74	52.74		PASS
5	0.5186	45.33	35.43	56.00	46.00		PASS
6	0.6044	48.28	37.13	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_{preamp} : Preamplifier Gain

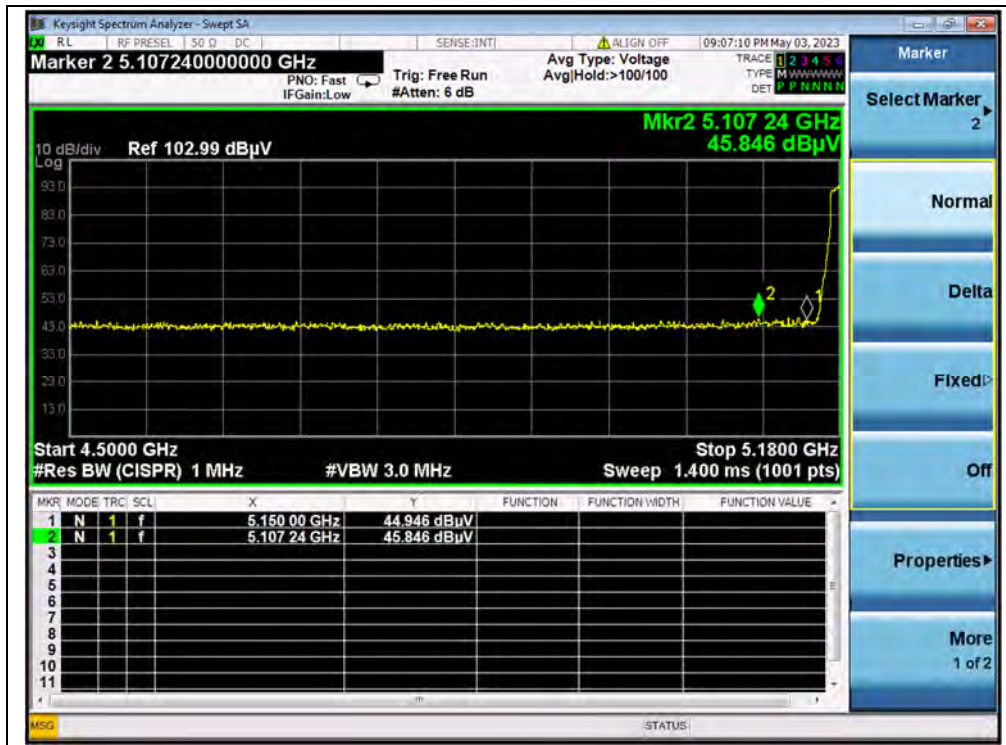
A_{Factor} : Antenna Factor at 3m

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.

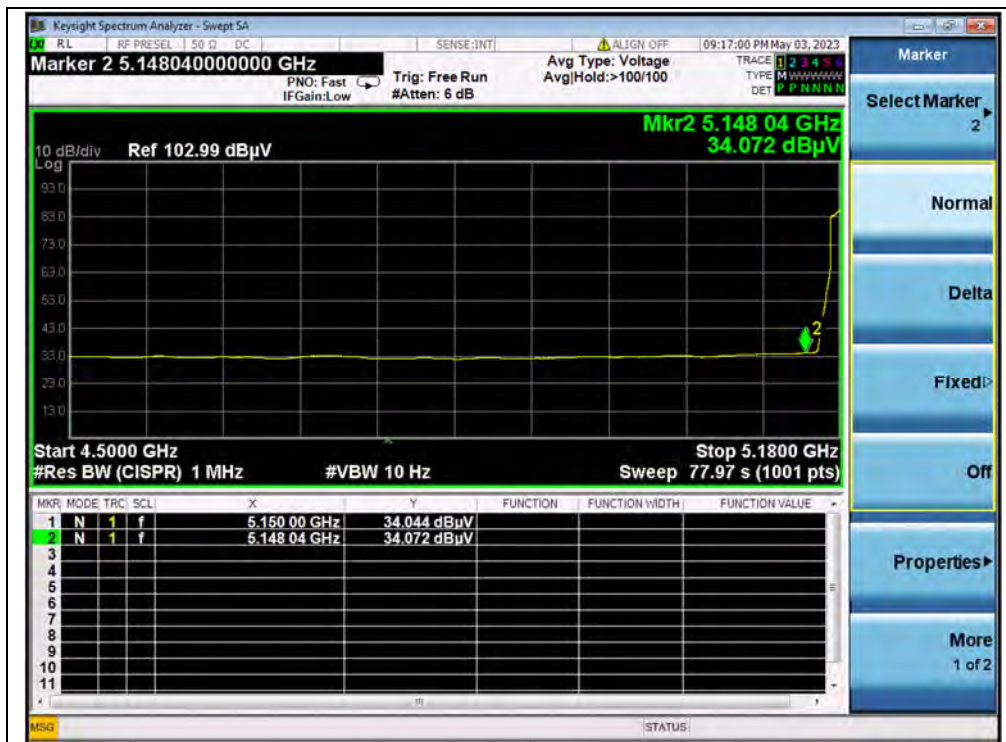
Note 2: All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.

802.11a Mode

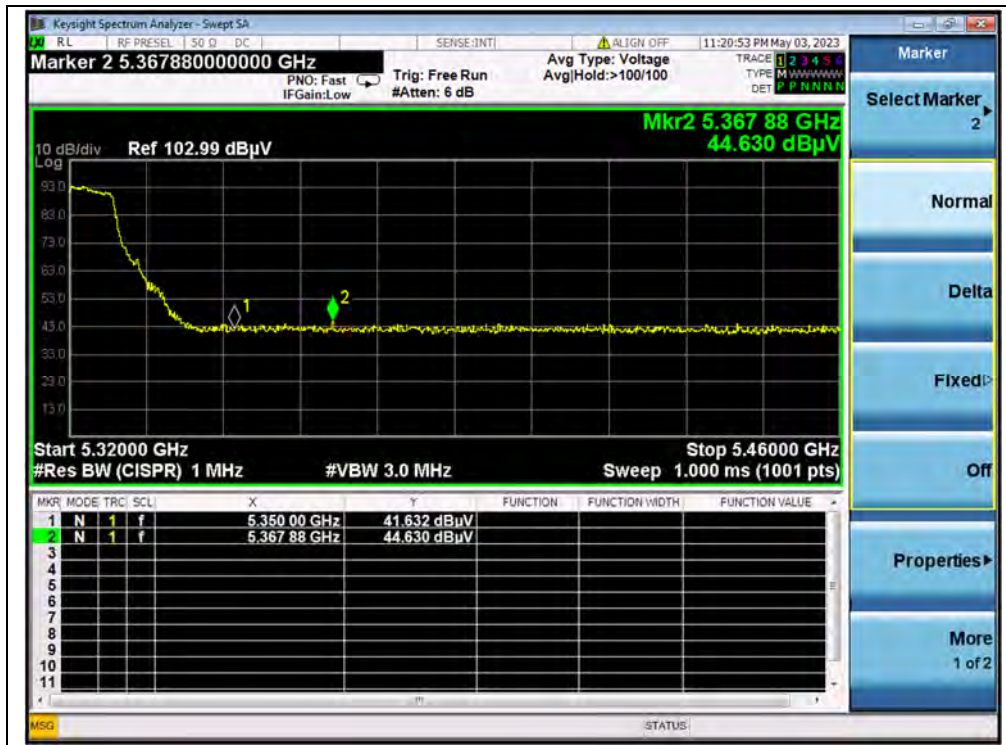
Channel	Frequency (MHz)	Detector	Receiver Reading	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV	U_R (dB μ V)					
36	5107.24	PK	45.85	-19.54	32.20	58.51	74	PASS
36	5148.04	AV	34.07	-19.54	32.20	46.73	54	PASS
64	5367.88	PK	44.63	-18.80	32.20	58.03	74	PASS
64	5359.62	AV	32.51	-18.80	32.20	45.91	54	PASS
100	5119.50	PK	45.38	-19.20	32.20	58.38	74	PASS
100	5107.00	AV	33.34	-19.20	32.20	46.34	54	PASS
144	5725.00	PK	52.99	-19.20	32.20	65.99	68.23	PASS
149	5725.00	PK	62.87	-19.01	32.20	76.06	122.23	PASS
165	5850.00	PK	46.78	-19.01	32.20	59.97	122.23	PASS



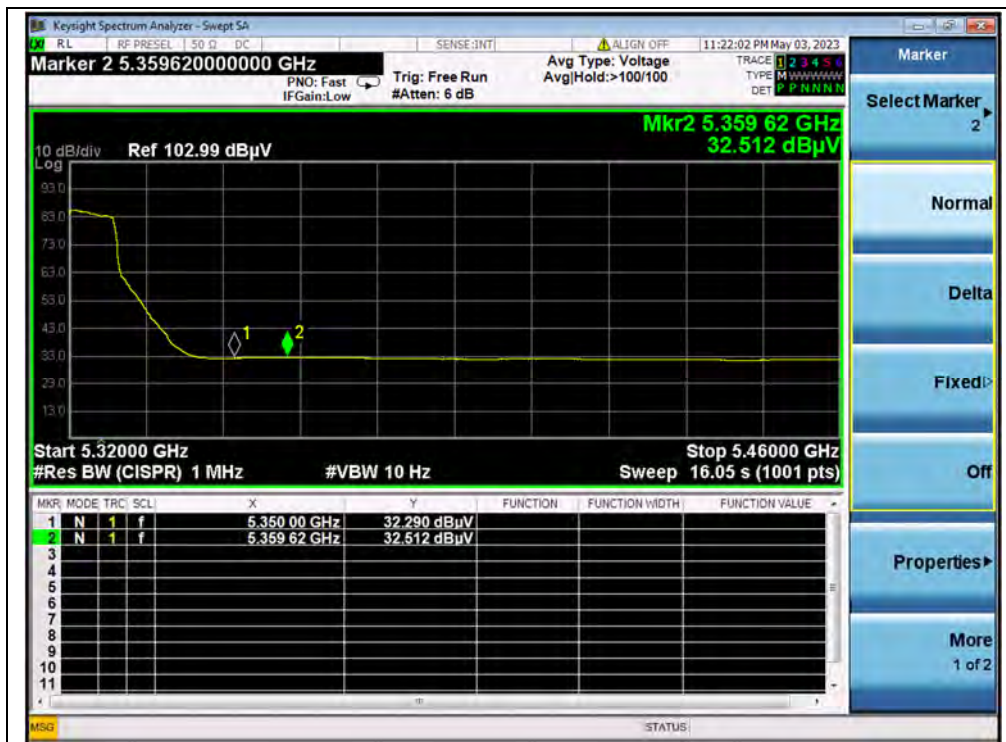
(PEAK, Channel 36, 802.11a)



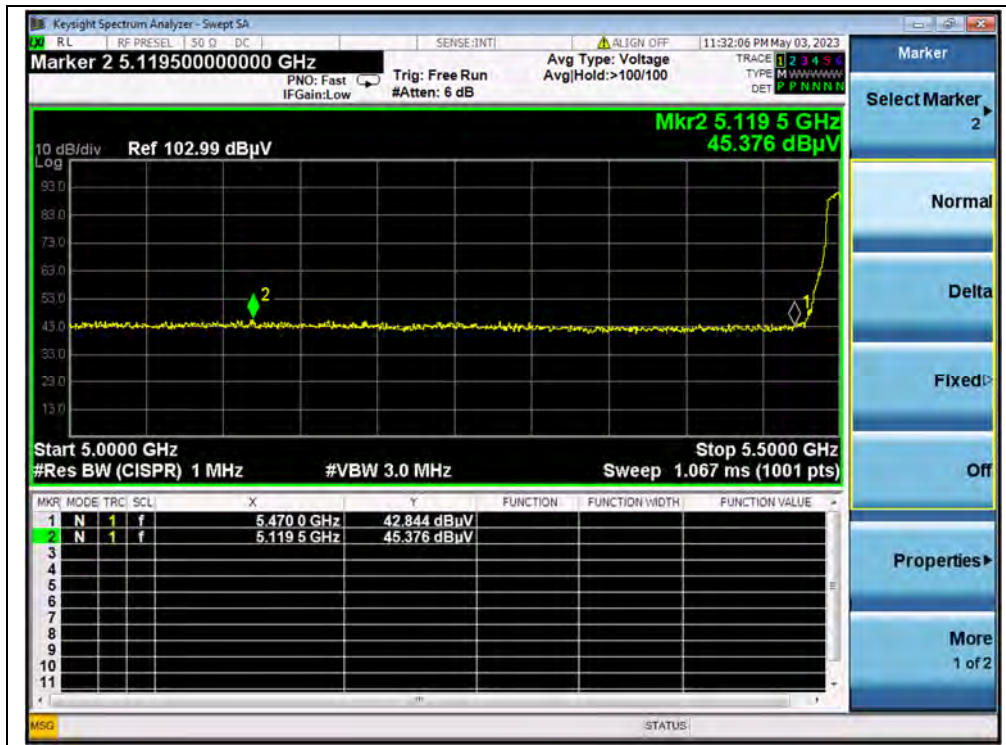
(AVERAGE, Channel 36, 802.11a)



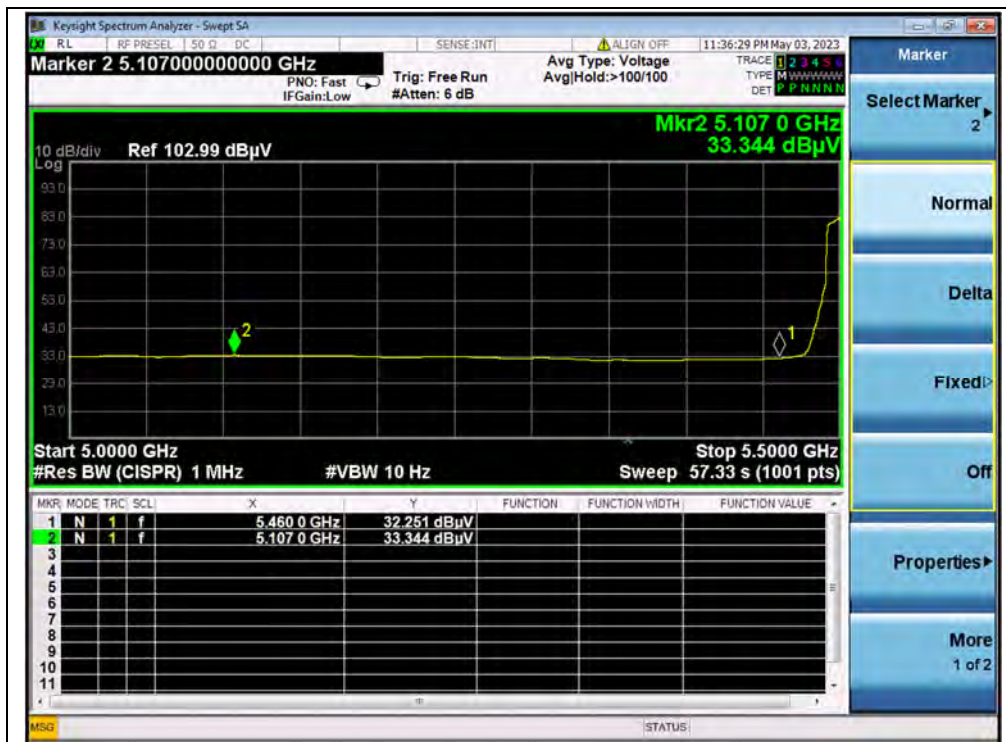
(PEAK, Channel 64, 802.11a)



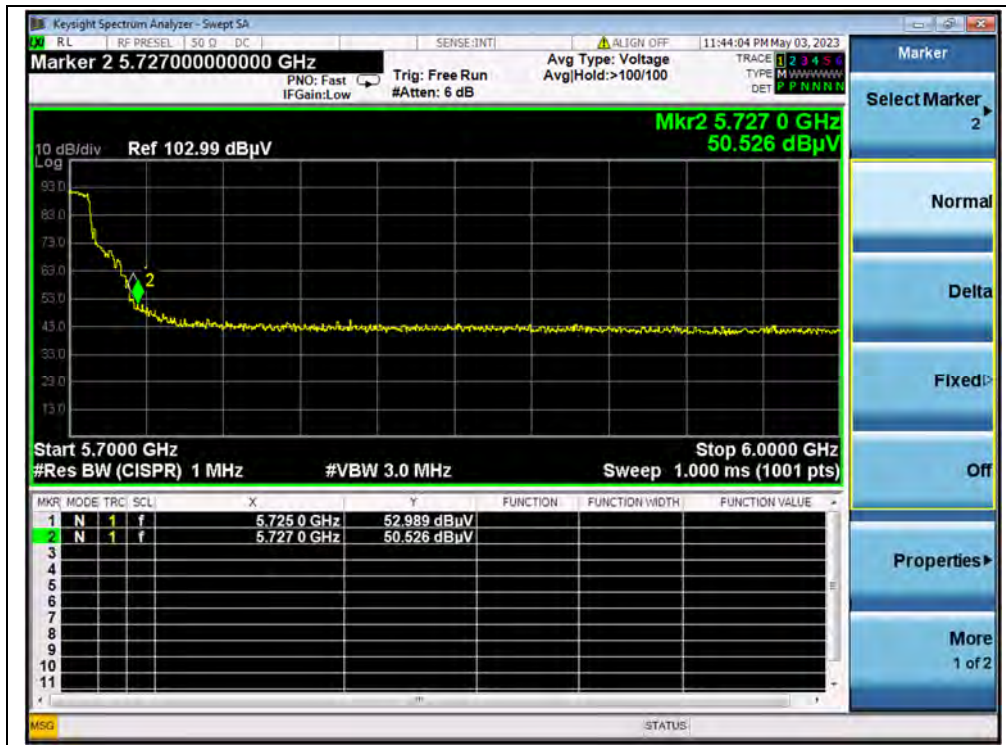
(AVERAGE, Channel 64, 802.11a)



(PEAK, Channel 100, 802.11a)



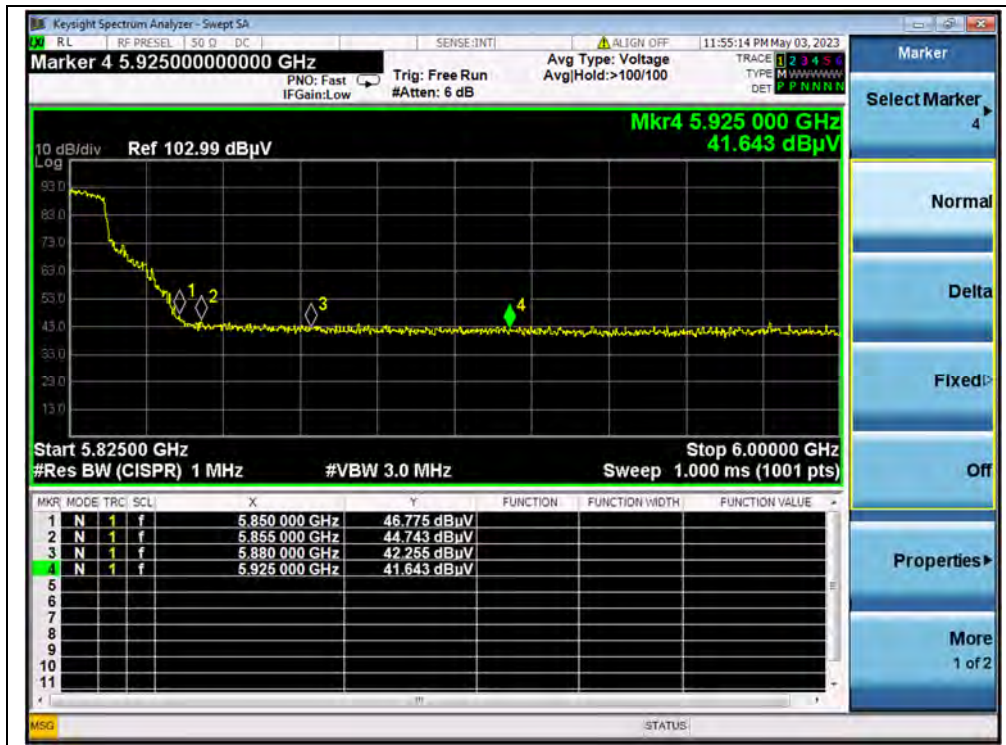
(AVERAGE, Channel 100, 802.11a)



(PEAK, Channel 144, 802.11a)



(PEAK, Channel 149, 802.11a)



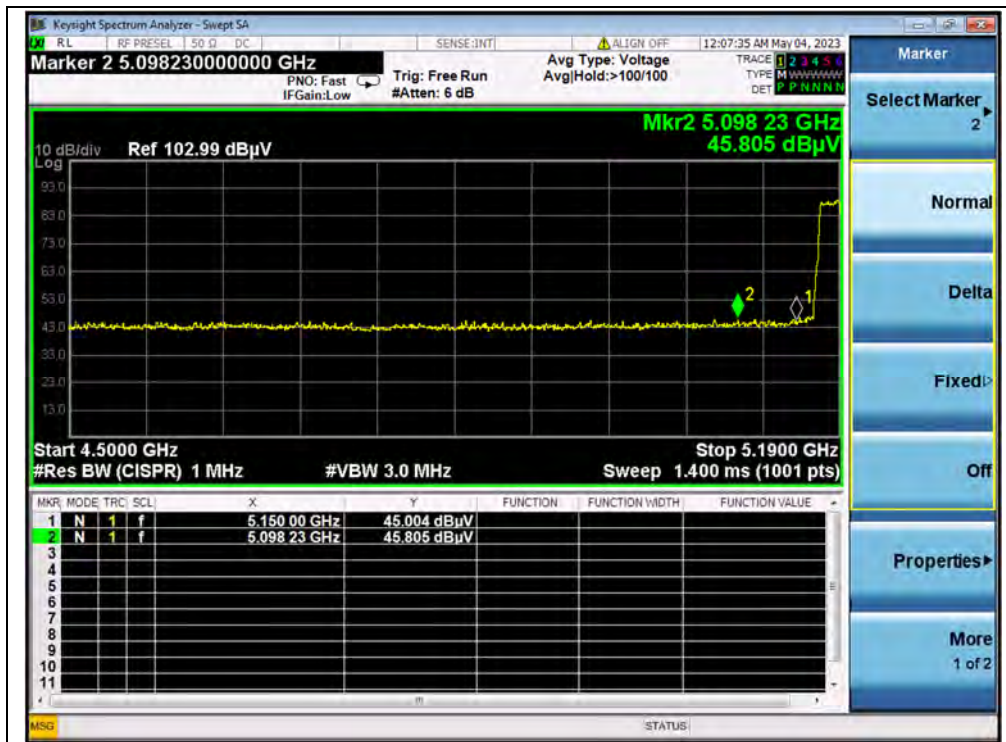
(PEAK, Channel 165, 802.11a)



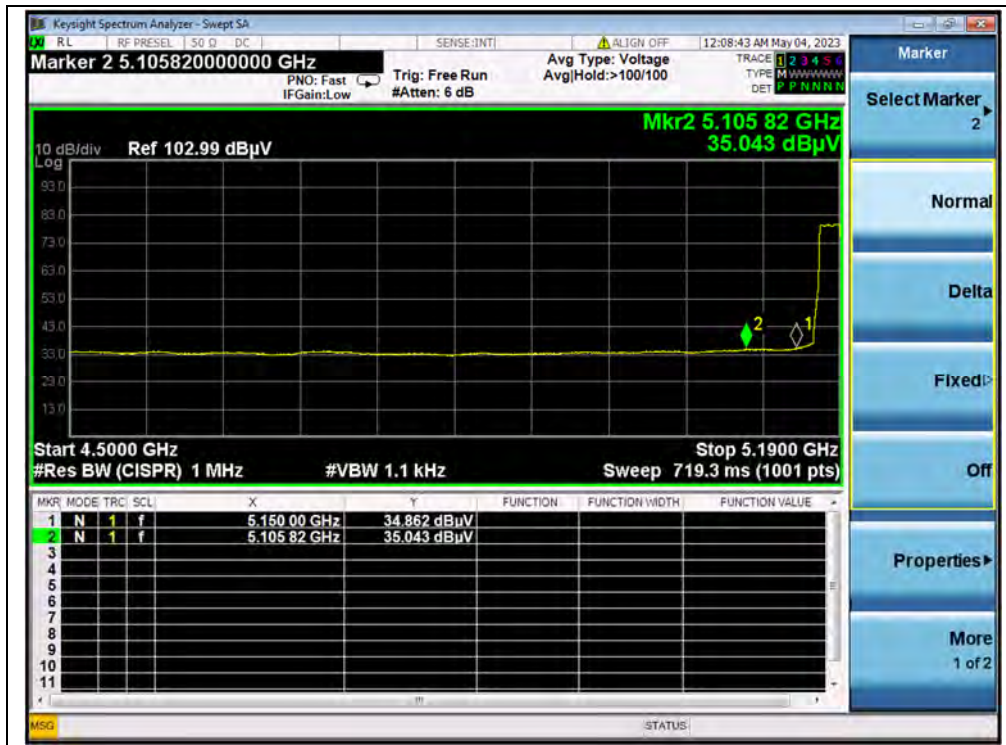


802.11n (HT40) Mode

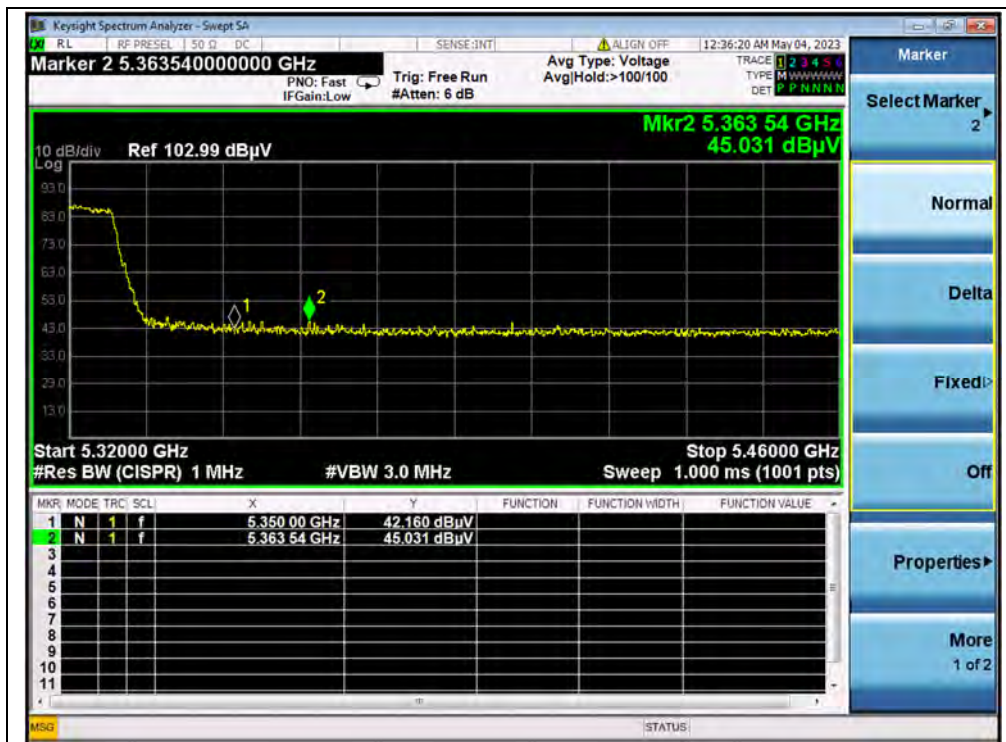
Channel	Frequency (MHz)	Detector	Receiver Reading U _R (dBμV)	A _T (dB)	A _{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
38	5098.23	PK	45.81	-19.54	32.20	58.47	74	PASS
38	5105.82	AV	35.04	-19.54	32.20	47.70	54	PASS
62	5363.54	PK	45.03	-18.80	32.20	58.43	74	PASS
62	5350.00	AV	33.99	-18.80	32.20	47.39	54	PASS
102	5169.52	PK	46.37	-19.20	32.20	59.37	74	PASS
102	5114.40	AV	34.32	-19.20	32.20	47.32	54	PASS
142	5729.73	PK	46.76	-19.20	32.20	59.76	68.23	PASS
151	5725.00	PK	58.91	-19.01	32.20	72.10	122.23	PASS
159	5850.00	PK	41.92	-19.01	32.20	55.11	122.23	PASS



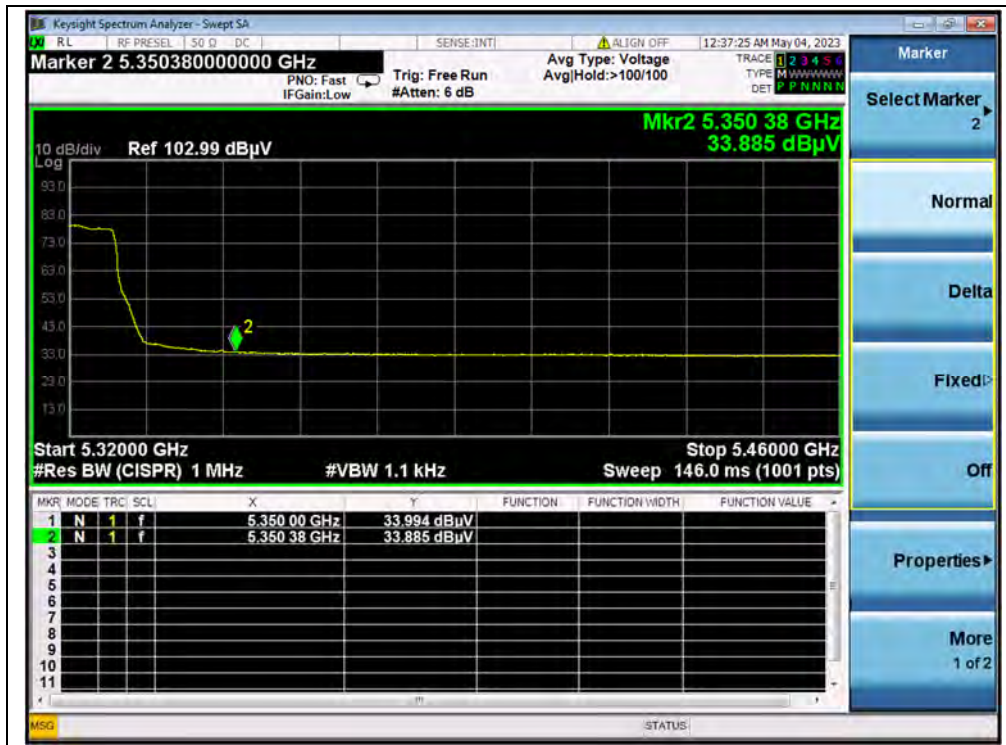
(PEAK, Channel 38, 802.11n (HT40))



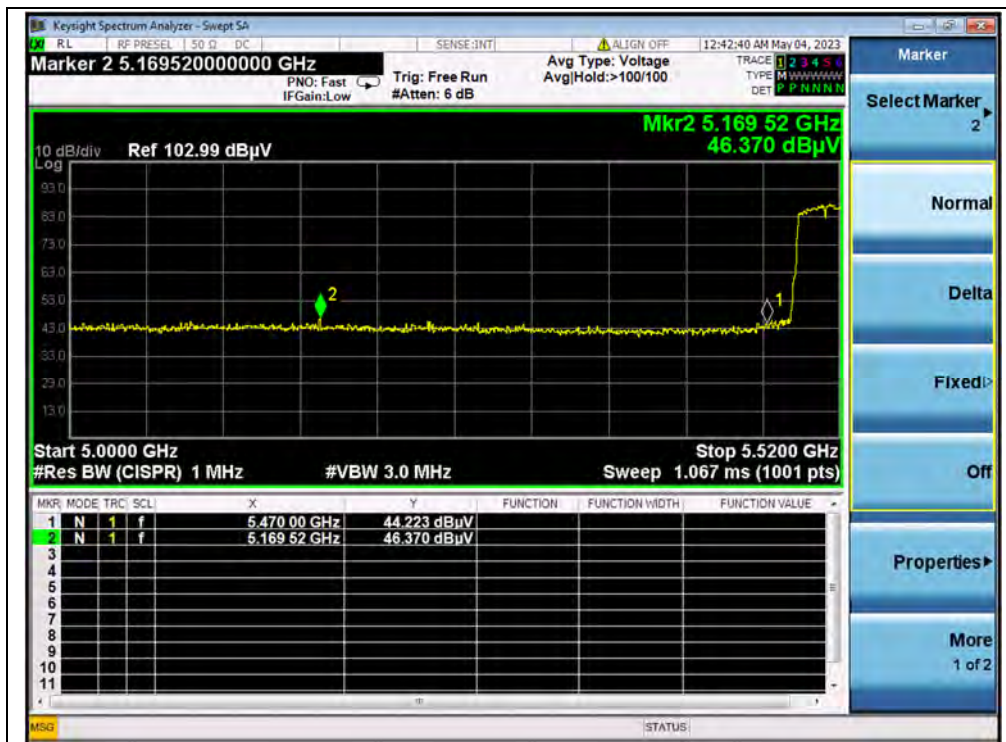
(AVERAGE, Channel 38, 802.11n (HT40))



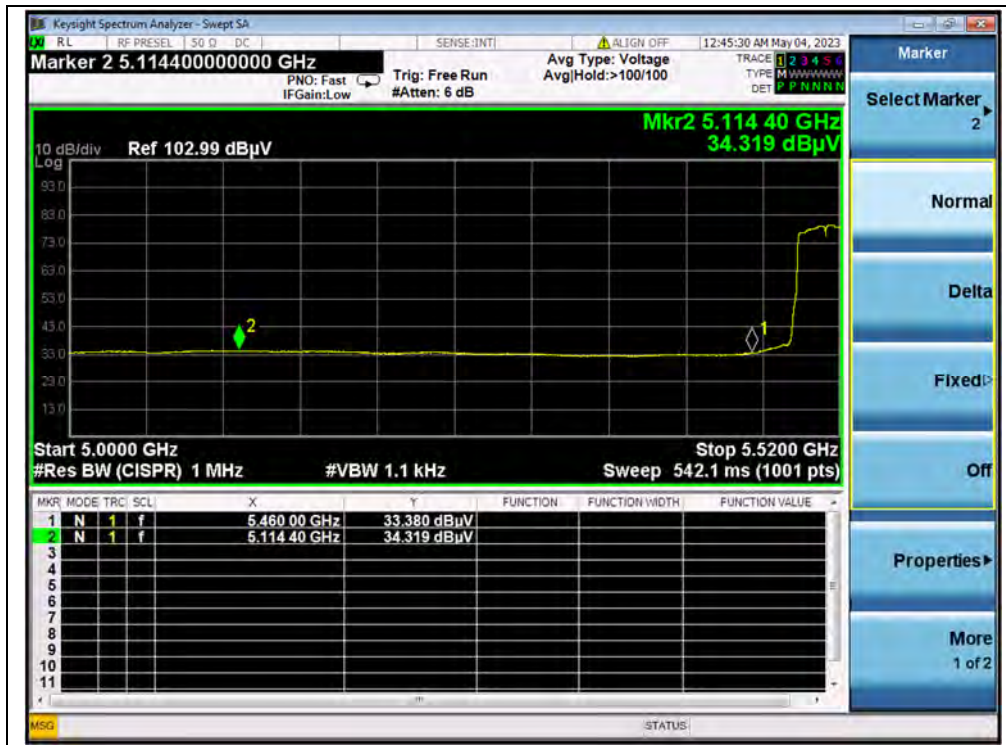
(PEAK, Channel 62, 802.11n (HT40))



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



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



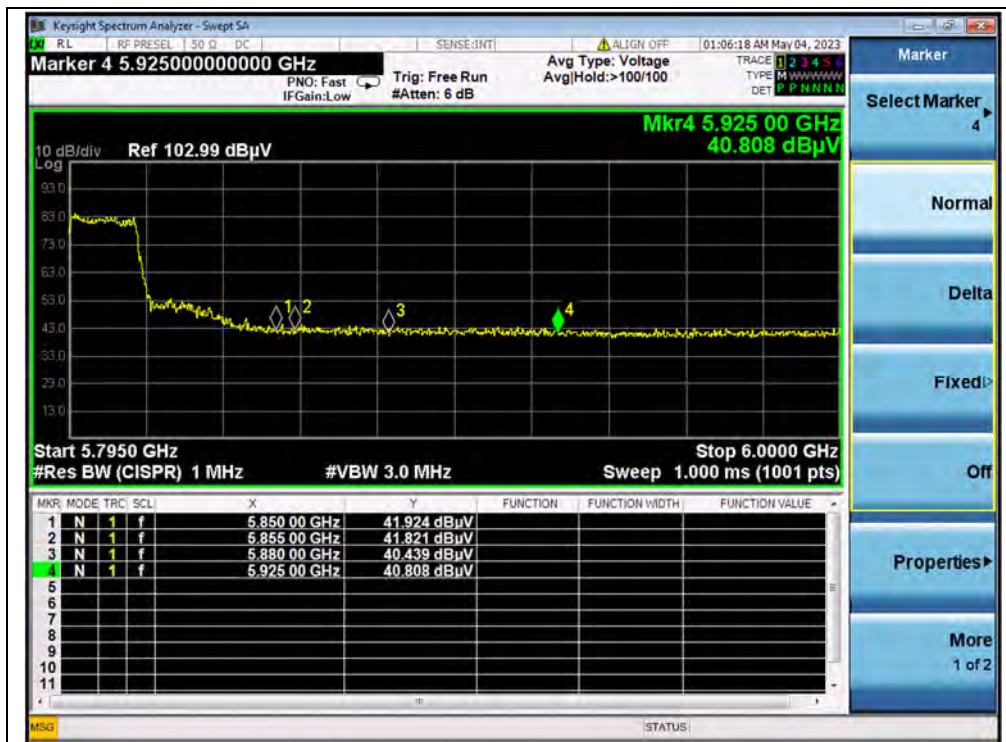
(AVERAGE, Channel 102, 802.11n (HT40))



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



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

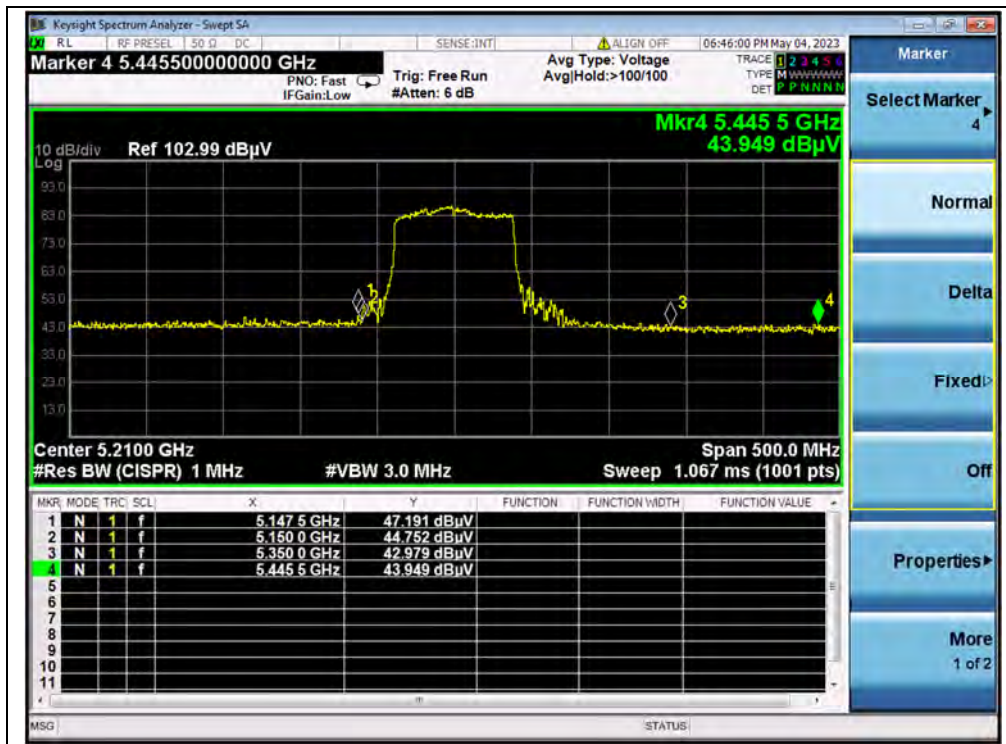


(PEAK, Channel 159, 802.11n (HT40))

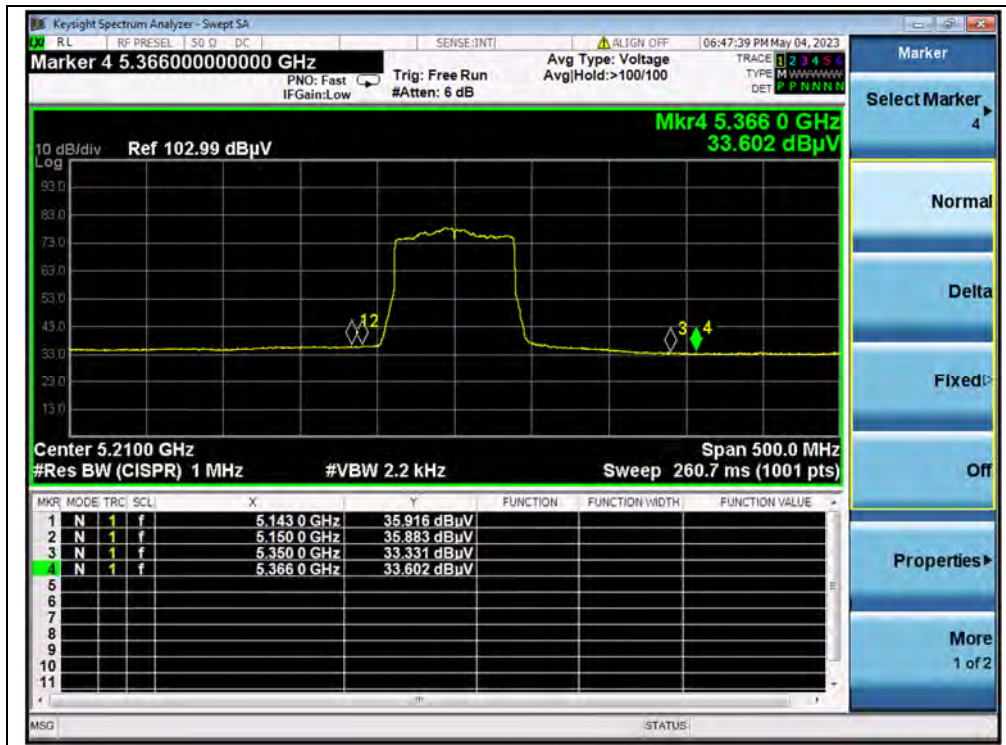


802.11ac (VHT80) Mode

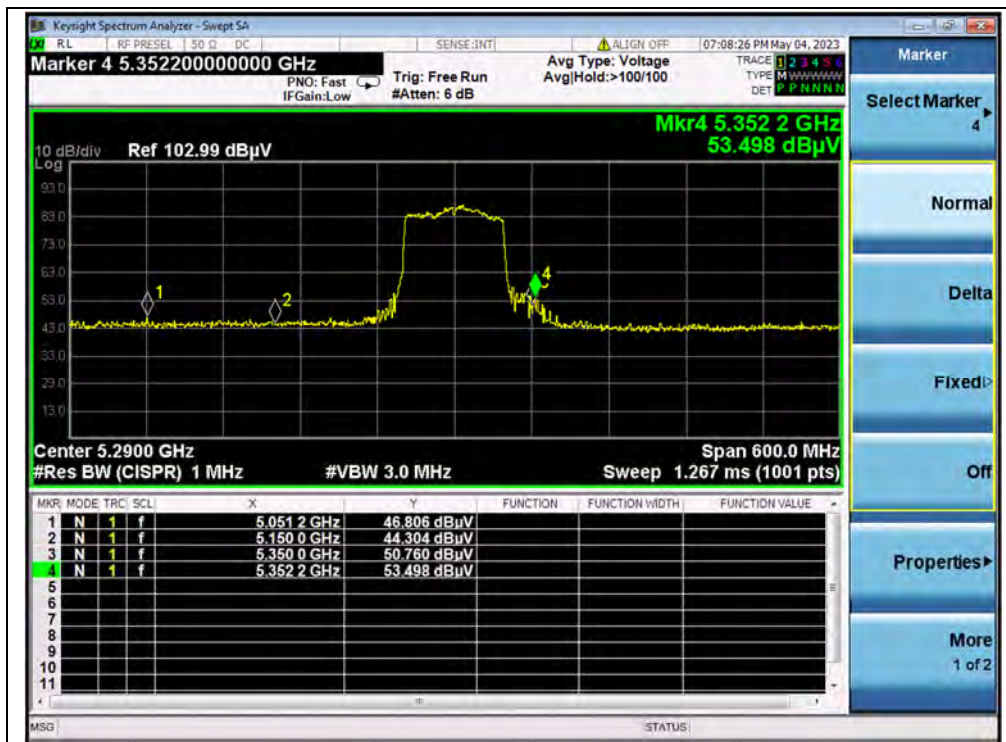
Channel	Frequency (MHz)	Detector	Receiver Reading U _R (dBμV)	A _T (dB)	A _{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
42	5147.50	PK	47.19	-19.54	32.20	59.85	74	PASS
42	5143.00	AV	35.92	-19.54	32.20	48.58	54	PASS
58	5352.20	PK	53.50	-18.80	32.20	66.90	74	PASS
58	5350.40	AV	37.26	-18.80	32.20	50.66	54	PASS
106	5109.18	PK	46.55	-19.20	32.20	59.55	74	PASS
106	5458.98	AV	35.55	-19.20	32.20	48.55	54	PASS
138	5758.20	PK	46.13	-19.20	32.20	59.13	68.23	PASS
155	5720.00	PK	46.59	-19.01	32.20	59.78	110.83	PASS
155	5850.00	PK	45.02	-19.01	32.20	58.21	122.23	PASS



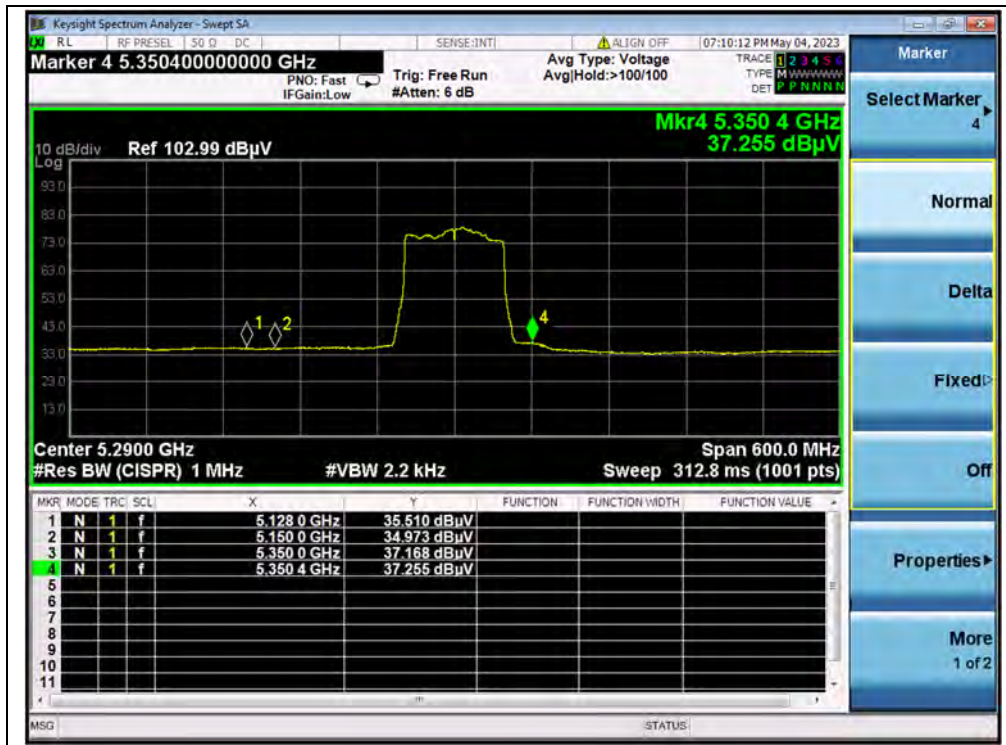
(PEAK, Channel 42, 802.11ac (VHT80))



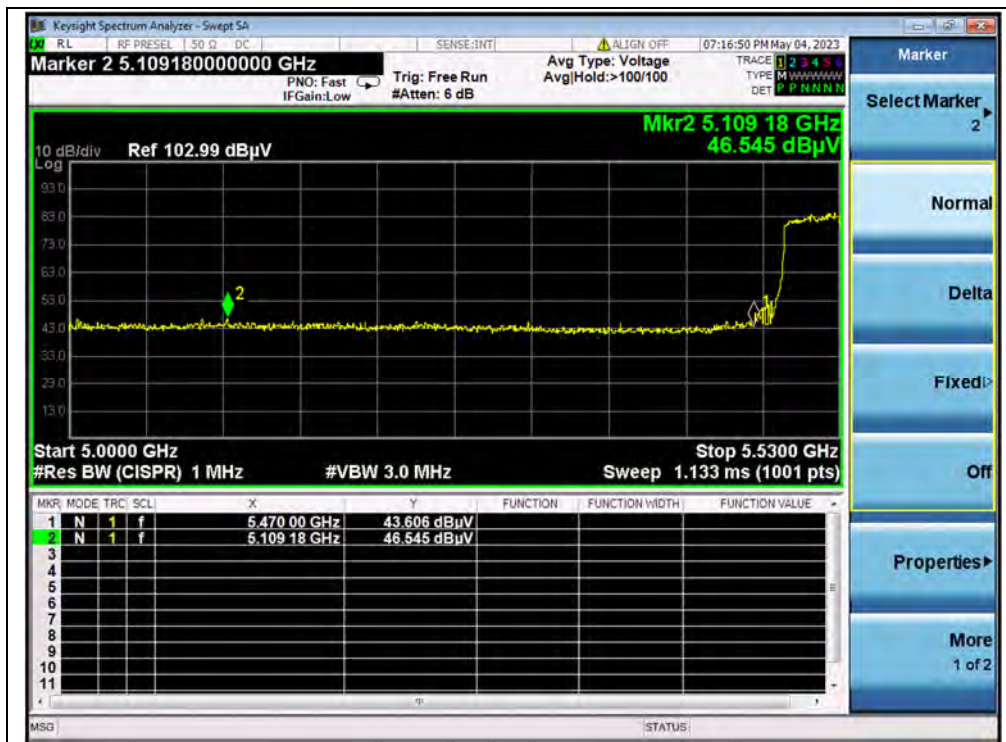
(AVERAGE, Channel 42, 802.11ac (VHT80))



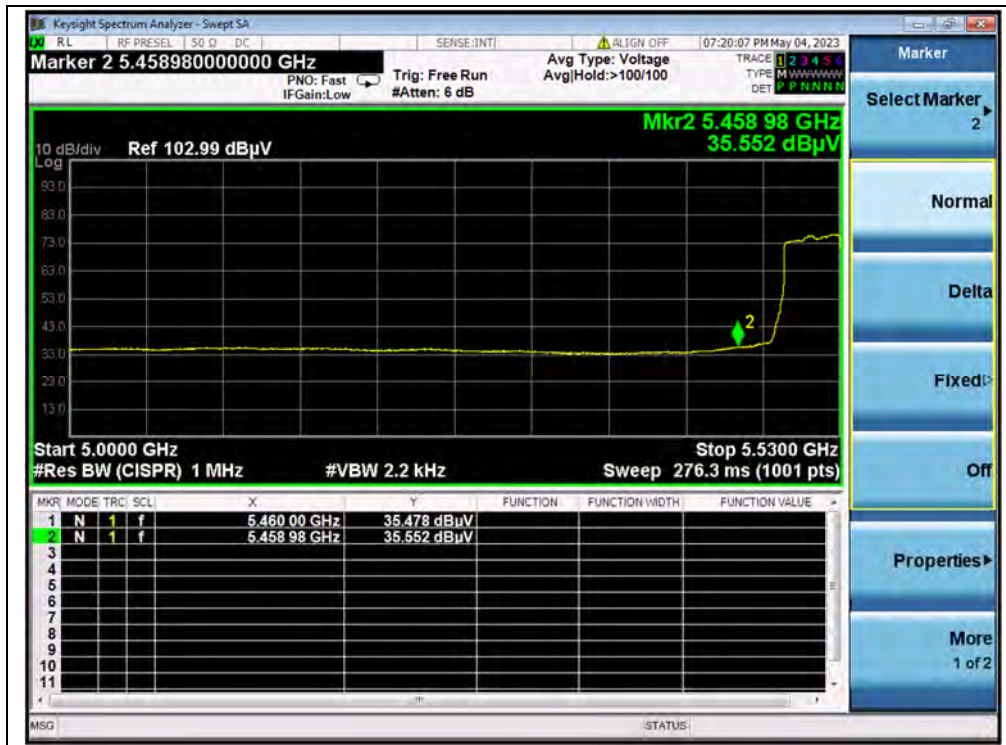
(PEAK, Channel 58, 802.11ac (VHT80))



(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.

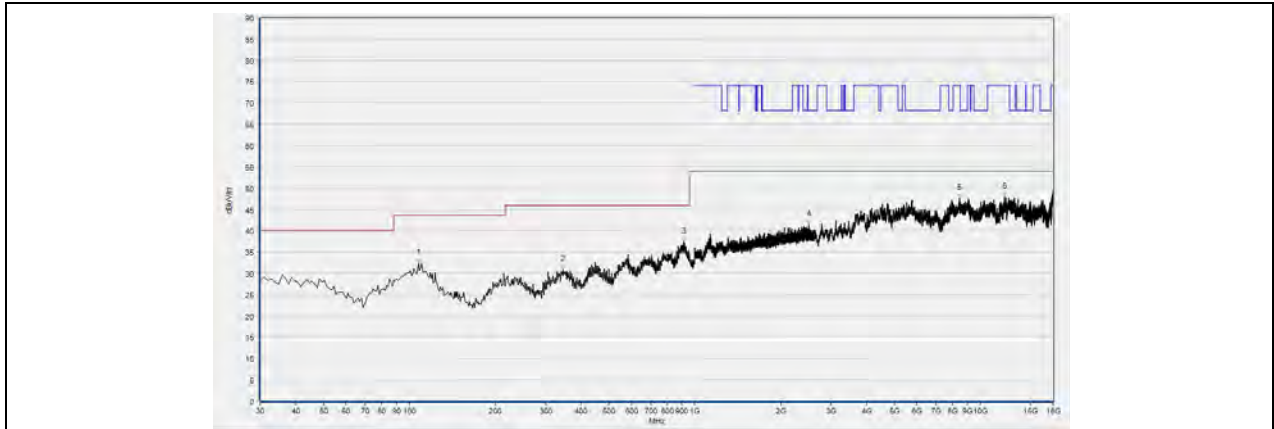
Note 4: All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.





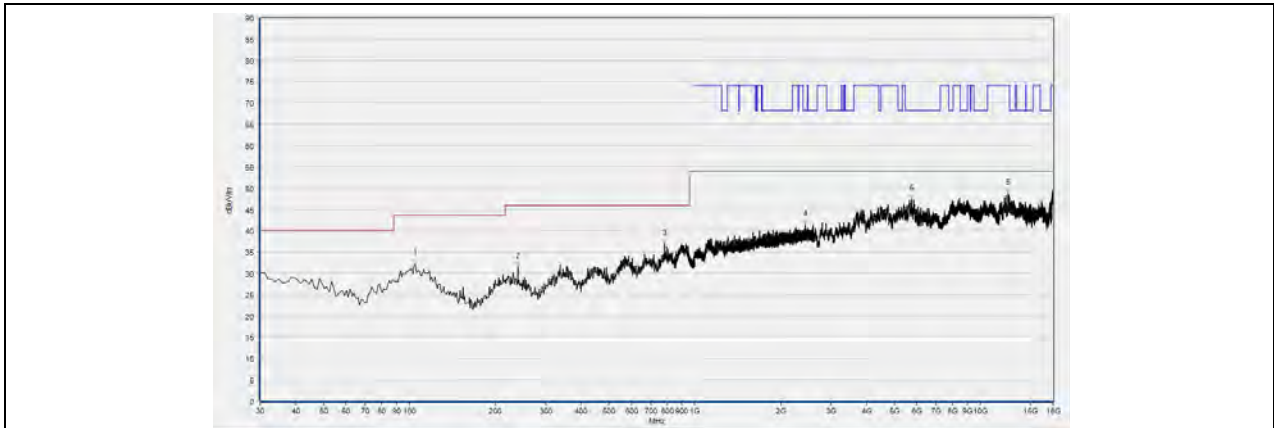
802.11a Mode

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
107.678	32.28	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
344.595	30.89	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
914.555	37.34	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2510.904	41.39	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8480.896	47.58	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12137.588	47.88	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

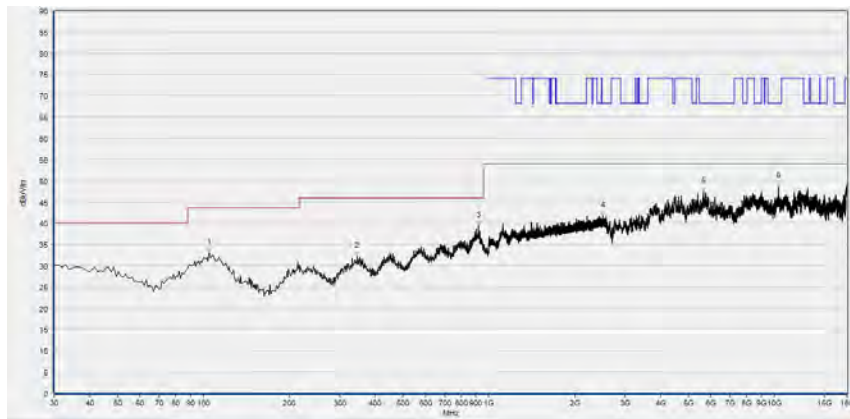
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
104.765	32.19	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
239.730	31.48	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
783.473	36.91	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2443.148	41.45	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5757.632	47.37	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12525.745	48.70	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

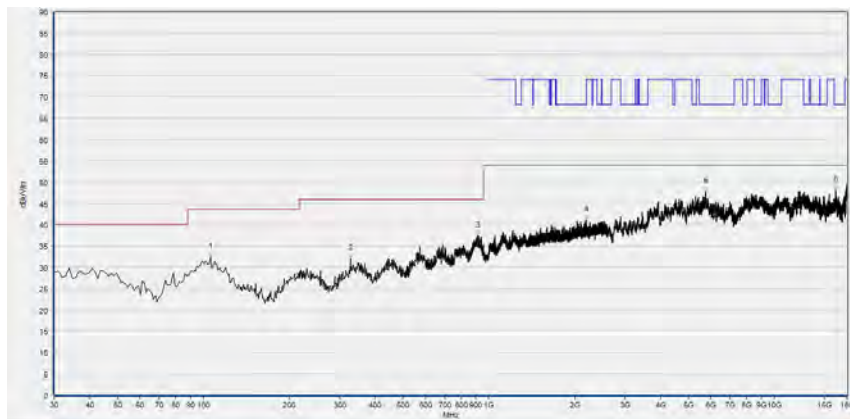
(Antenna Vertical, 30MHz to 18GHz)

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
104.765	32.94	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
345.566	32.20	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
919.409	39.40	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2505.569	41.81	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5646.729	47.44	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10323.105	48.58	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

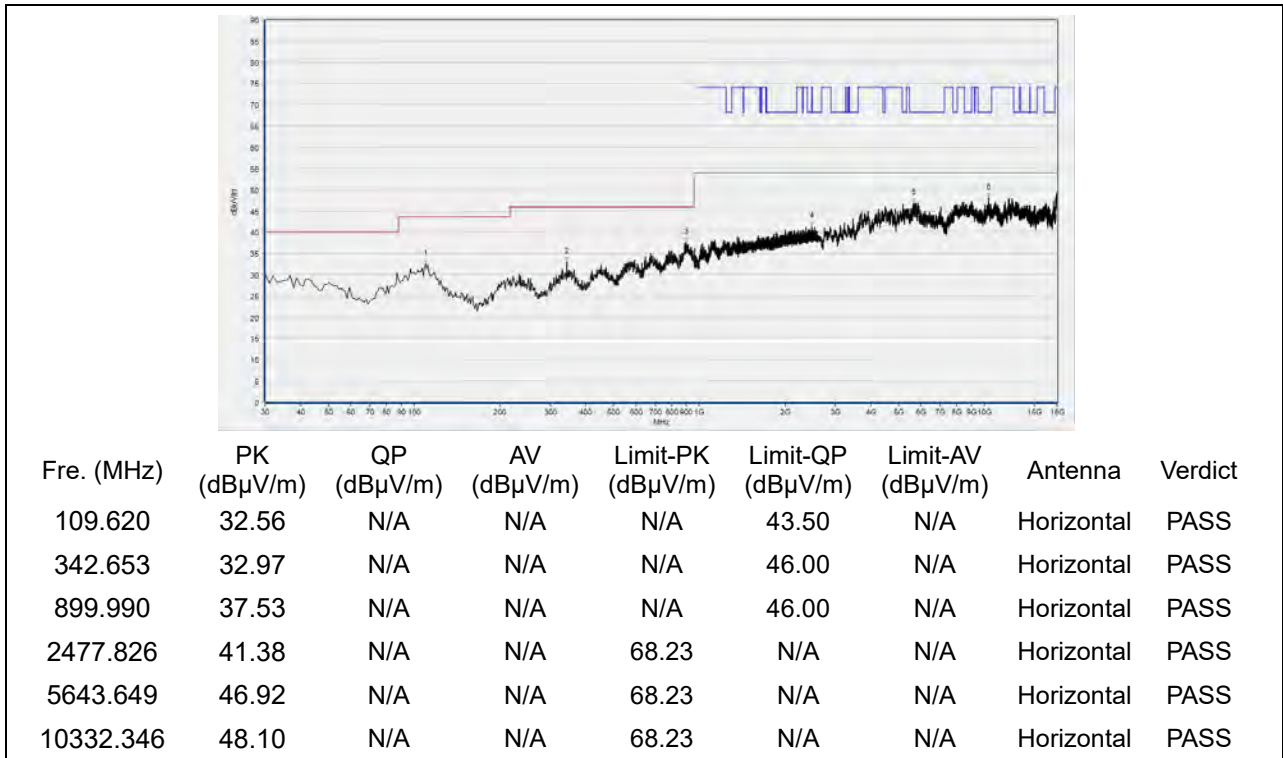
(Antenna Horizontal, 30MHz to 18GHz)



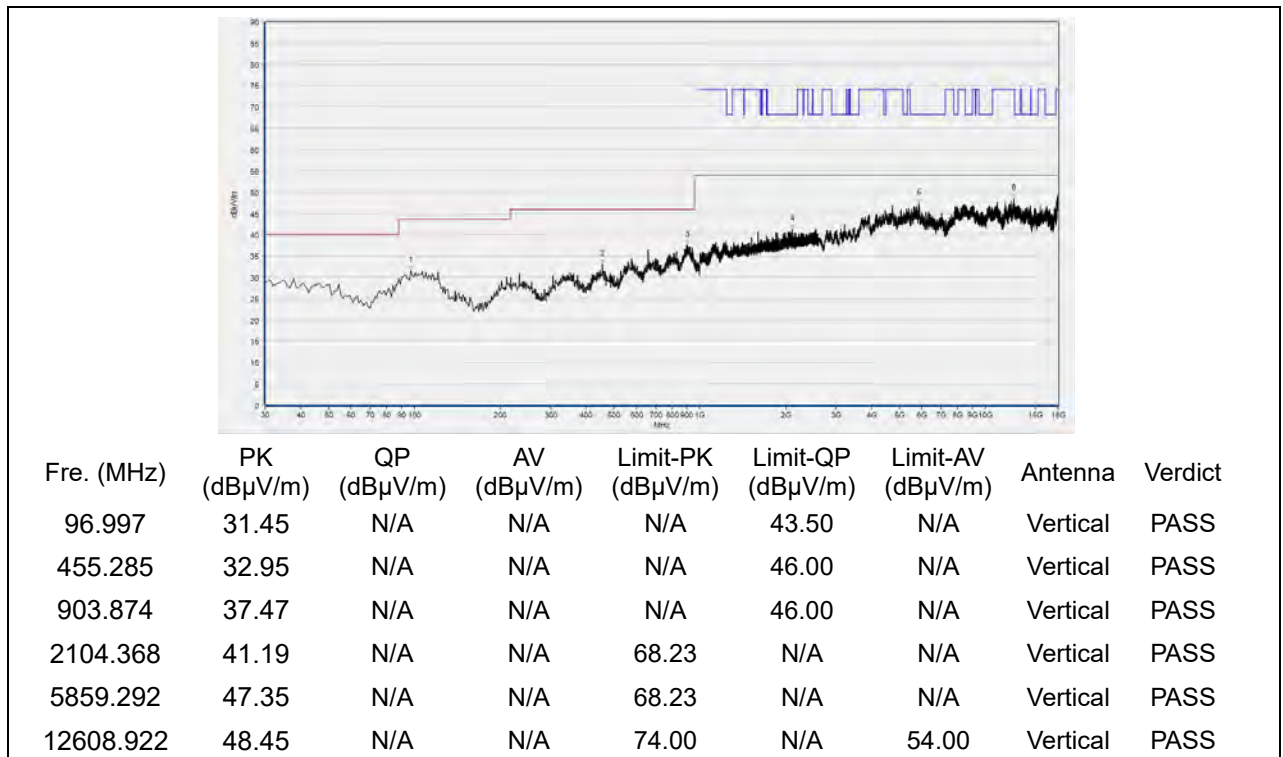
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
105.736	32.27	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
327.117	31.97	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
912.613	37.42	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2195.599	41.12	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5754.551	47.84	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
16425.805	48.12	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 48

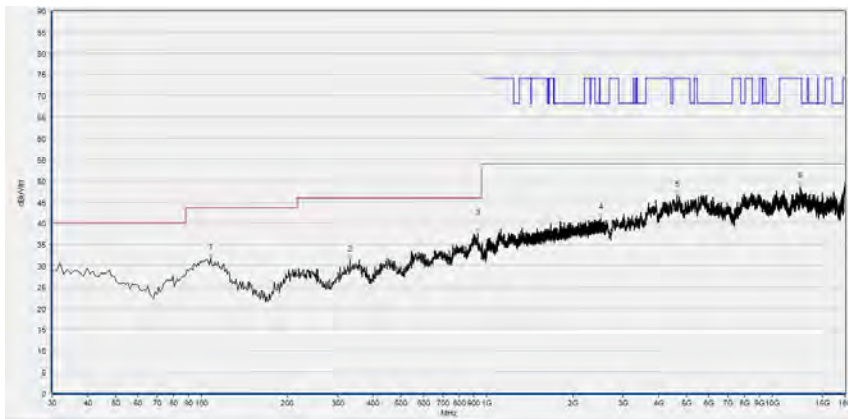


(Antenna Horizontal, 30MHz to 18GHz)



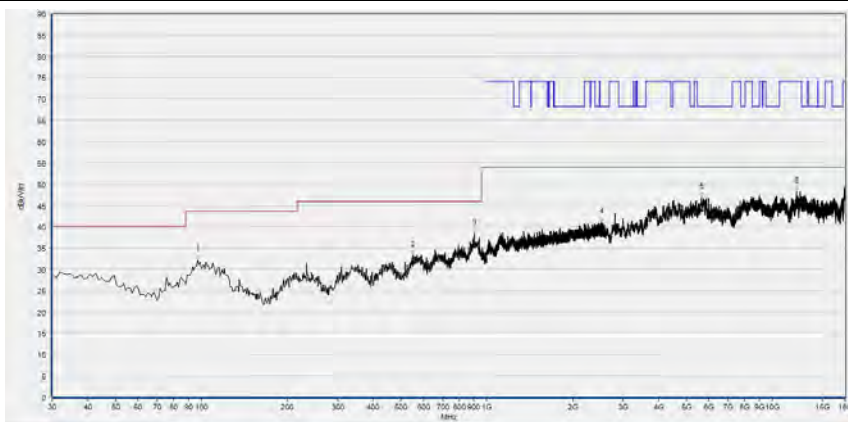
(Antenna Vertical, 30MHz to 18GHz)

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
107.678	31.79	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
331.972	31.40	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
928.148	37.46	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2506.102	41.28	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4633.207	46.66	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12513.423	48.60	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

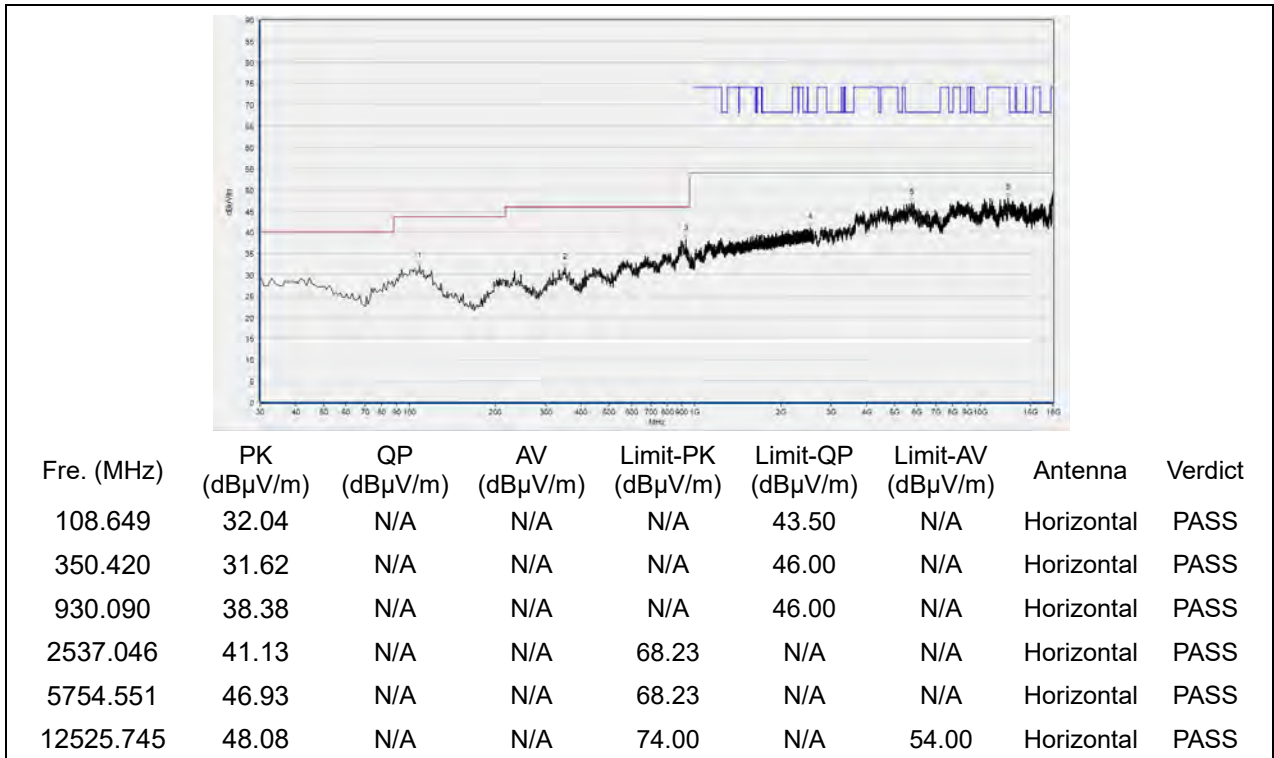
(Antenna Horizontal, 30MHz to 18GHz)



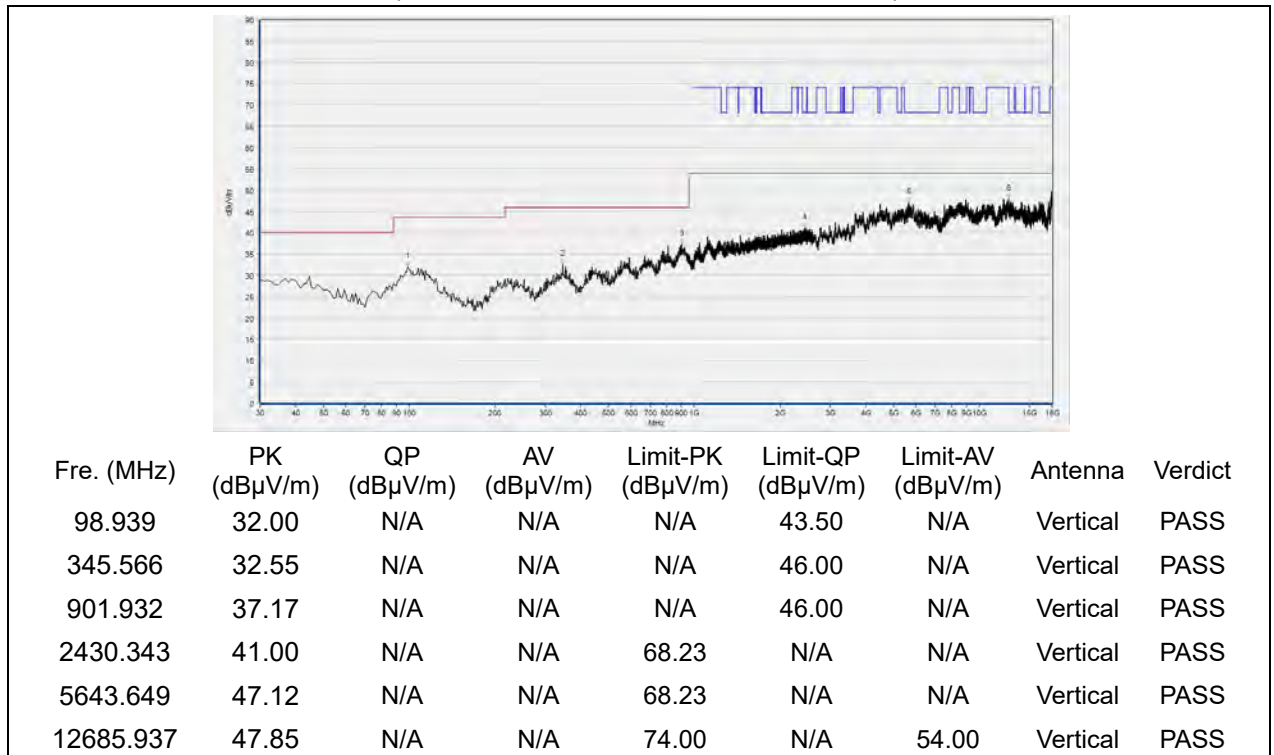
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
96.997	32.10	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
549.469	33.27	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
902.903	38.32	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2518.373	40.99	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5643.649	46.91	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12156.071	48.23	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 60

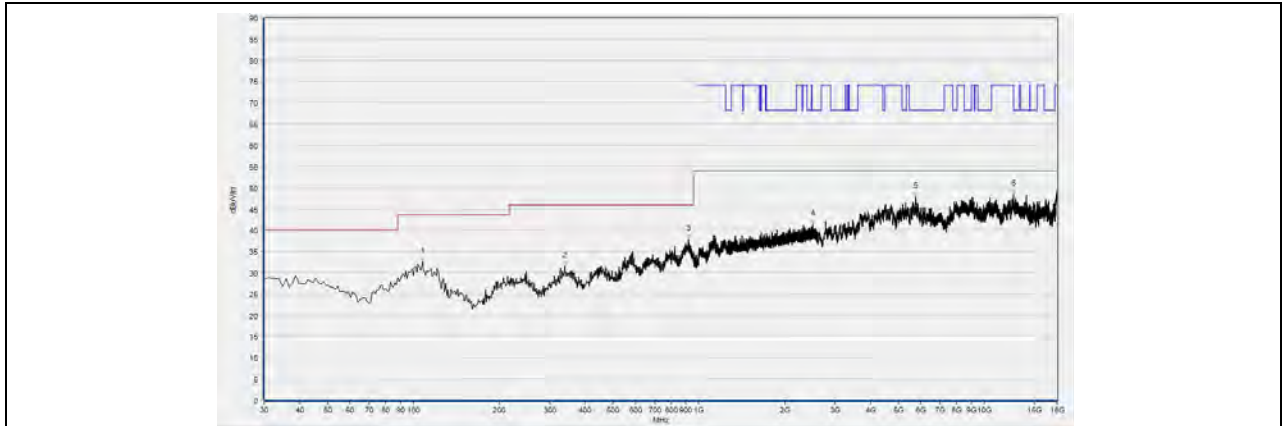


(Antenna Horizontal, 30MHz to 18GHz)



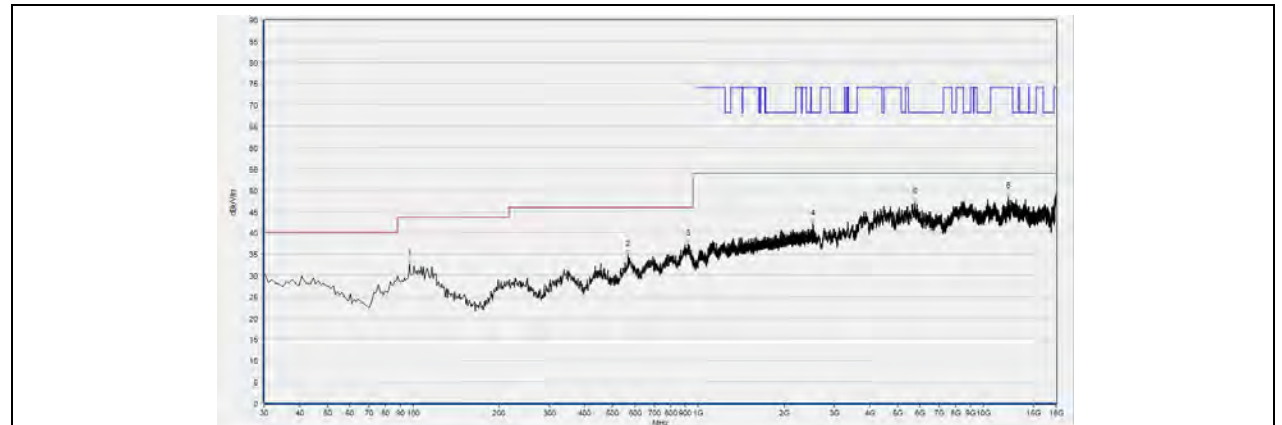
(Antenna Vertical, 30MHz to 18GHz)

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
107.678	32.53	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
338.769	31.53	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
920.380	37.90	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2507.703	41.39	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5748.390	47.86	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12685.937	48.40	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

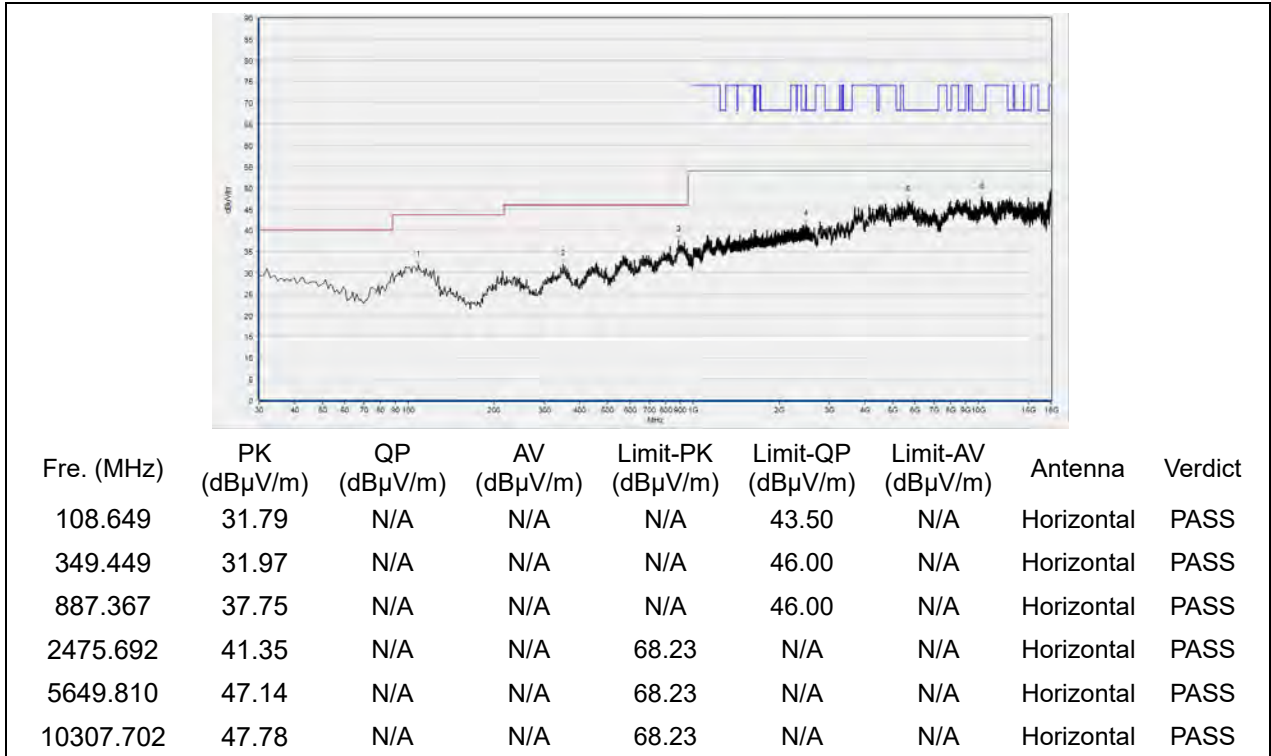
(Antenna Horizontal, 30MHz to 18GHz)



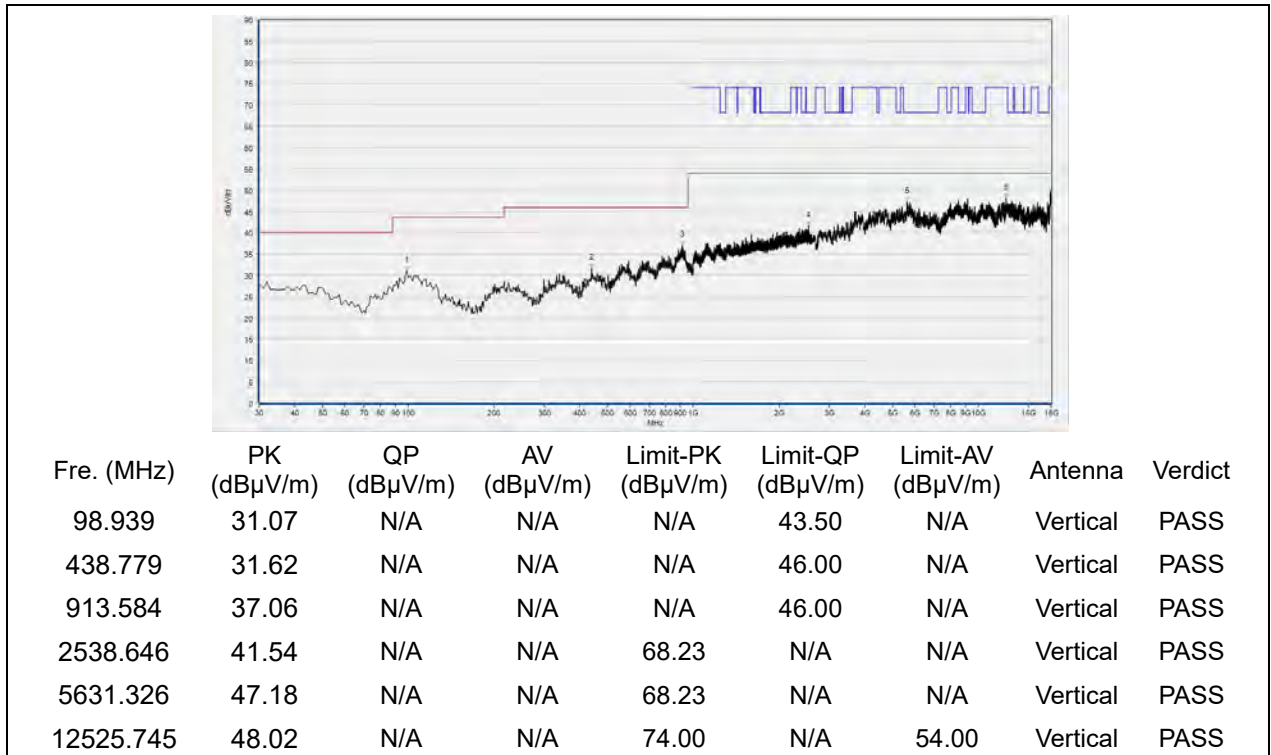
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
96.997	32.46	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
566.947	34.89	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
919.409	37.38	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2518.373	42.13	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5751.470	47.07	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12199.200	48.36	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 100

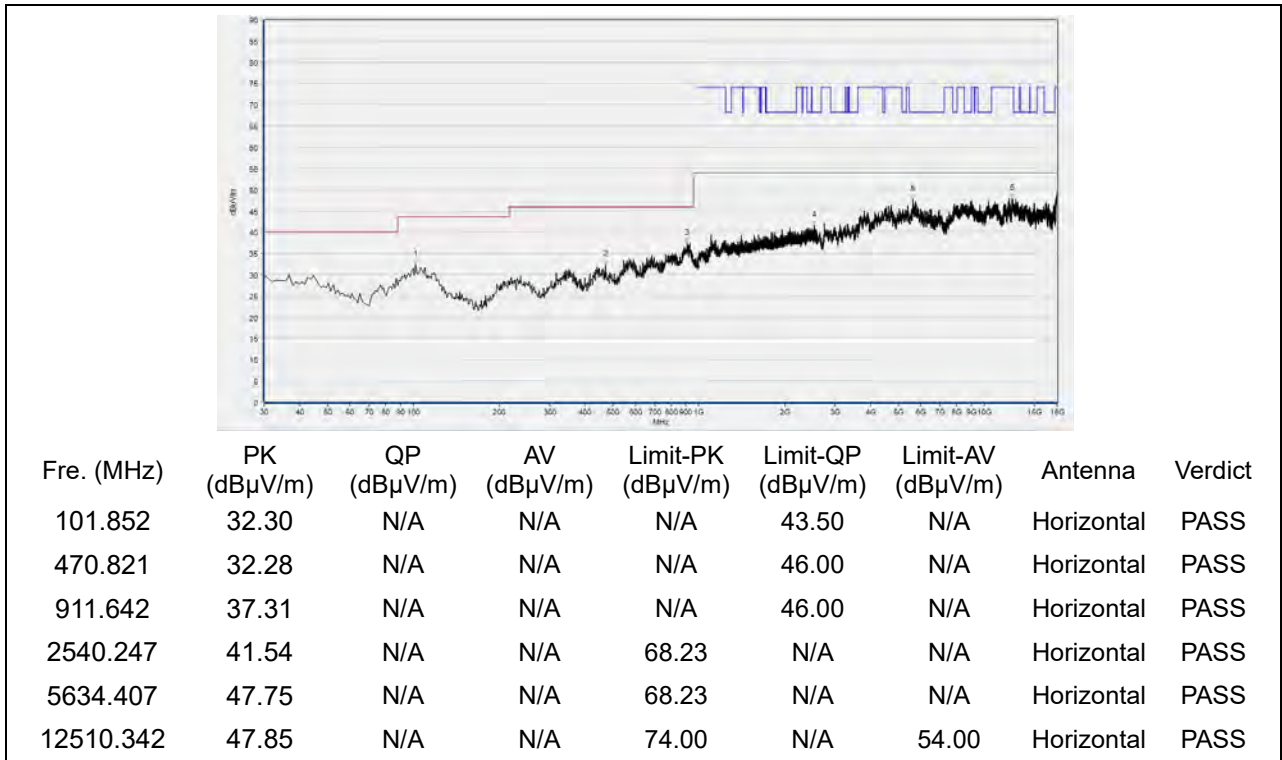


(Antenna Horizontal, 30MHz to 18GHz)

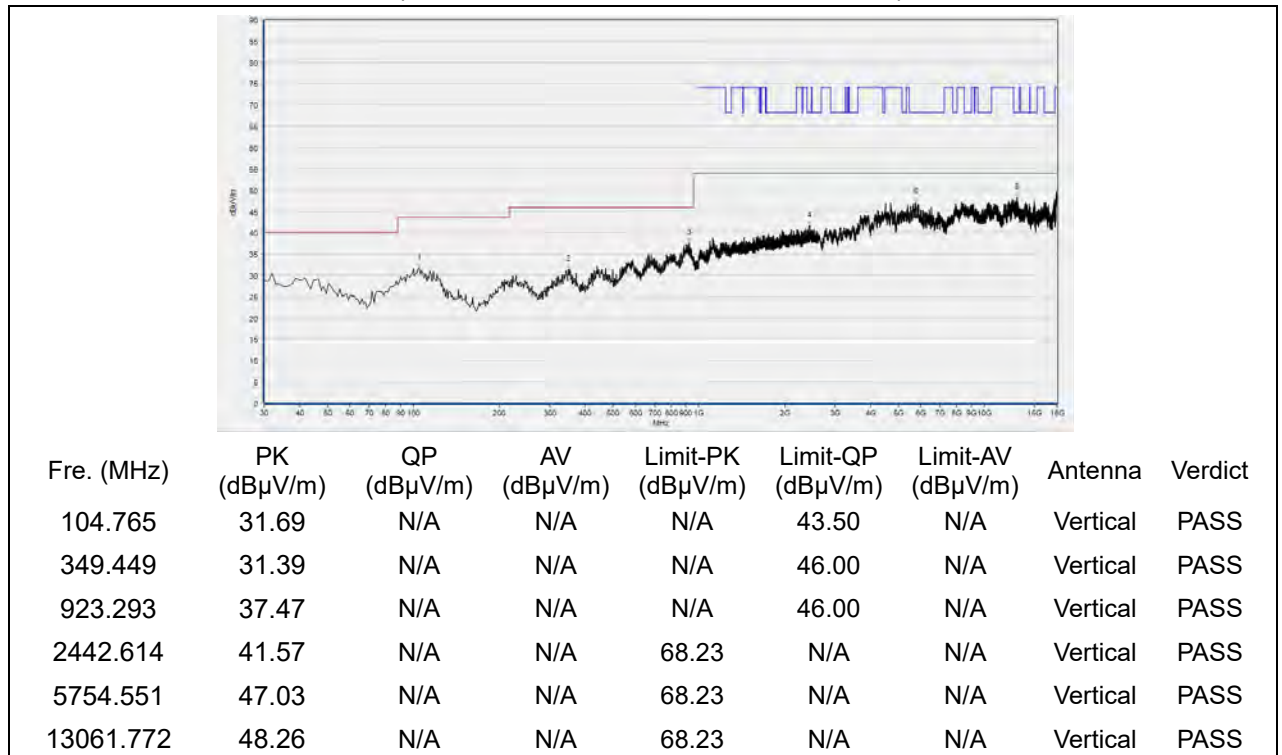


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 120

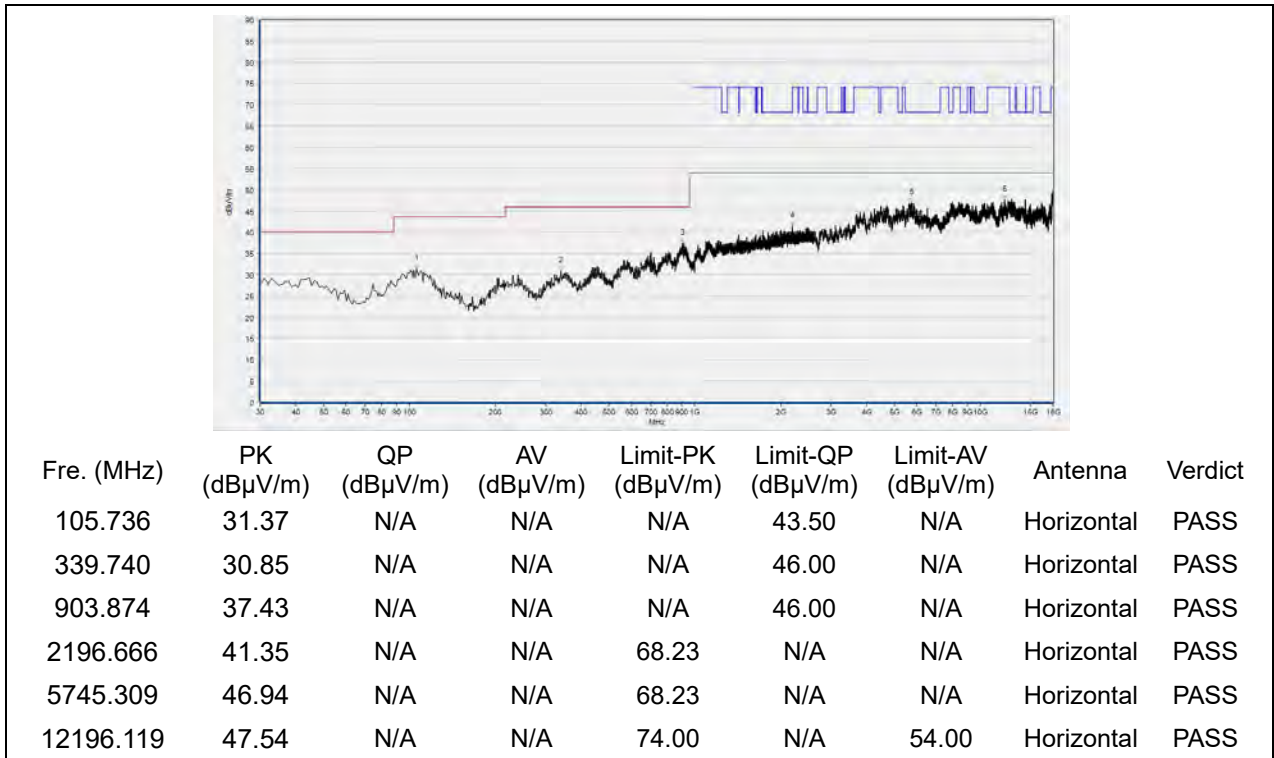


(Antenna Horizontal, 30MHz to 18GHz)

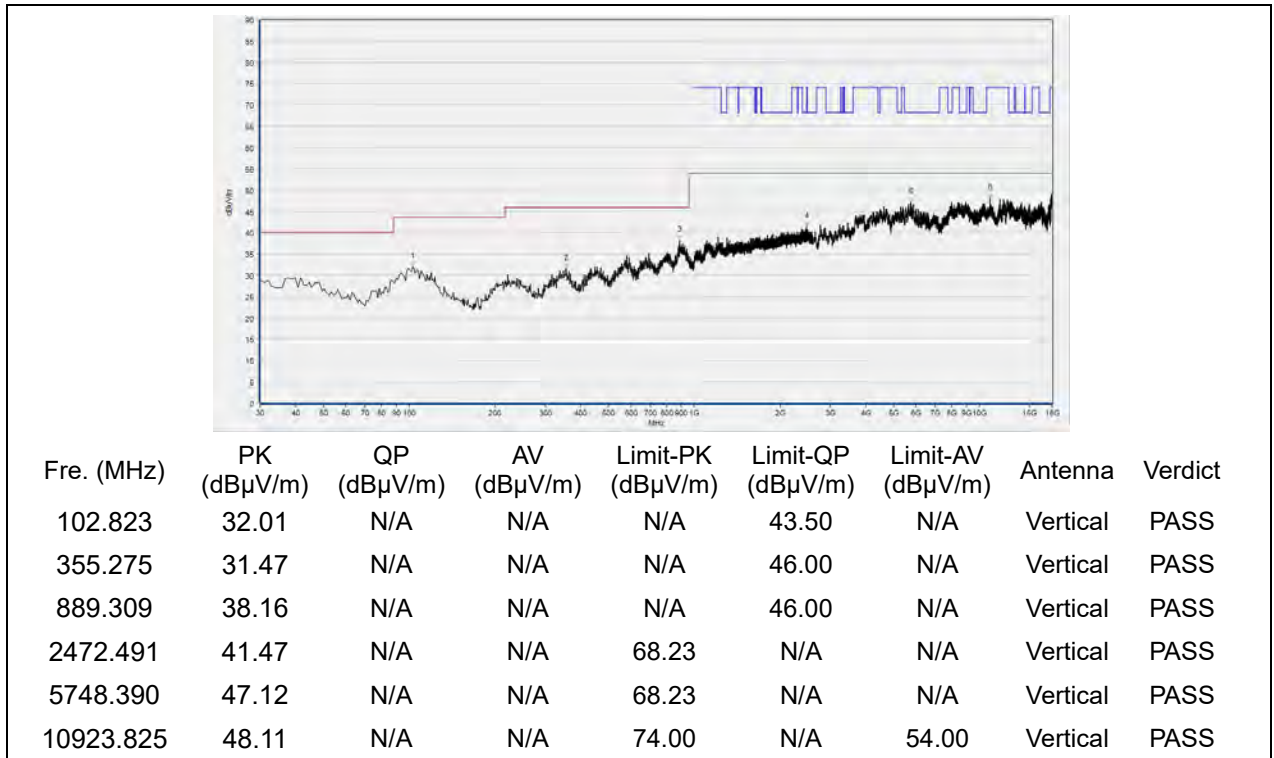


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 144

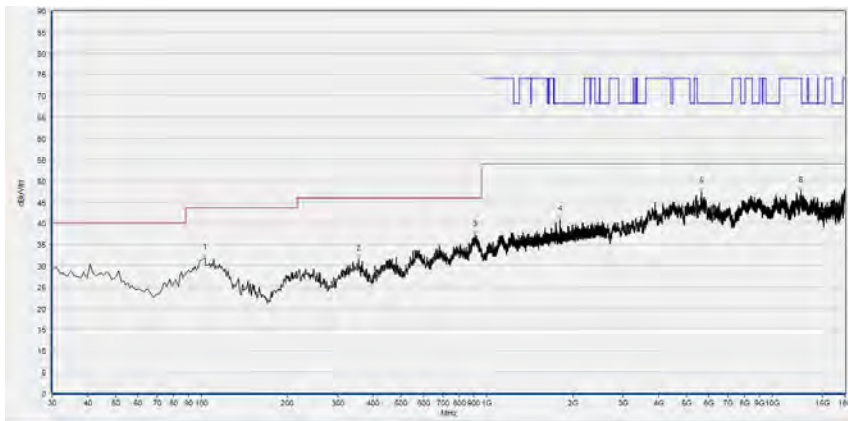


(Antenna Horizontal, 30MHz to 18GHz)



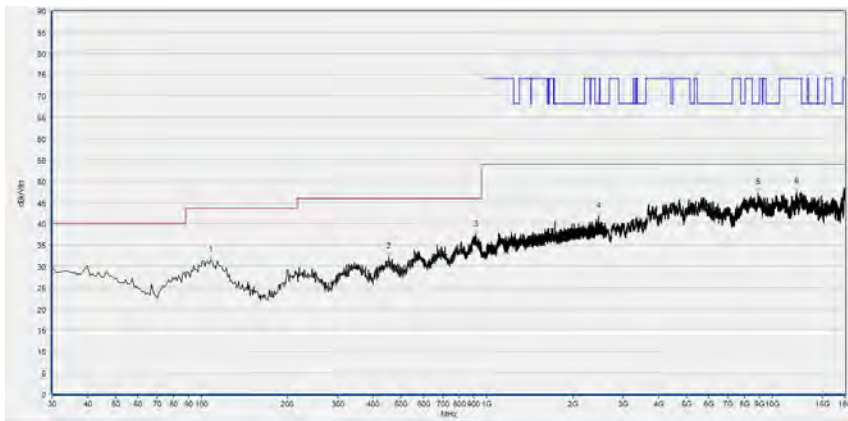
(Antenna Vertical, 30MHz to 18GHz)

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
102.823	31.93	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
356.246	31.56	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
907.758	37.19	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1805.602	40.97	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5646.729	47.40	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12593.519	47.56	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

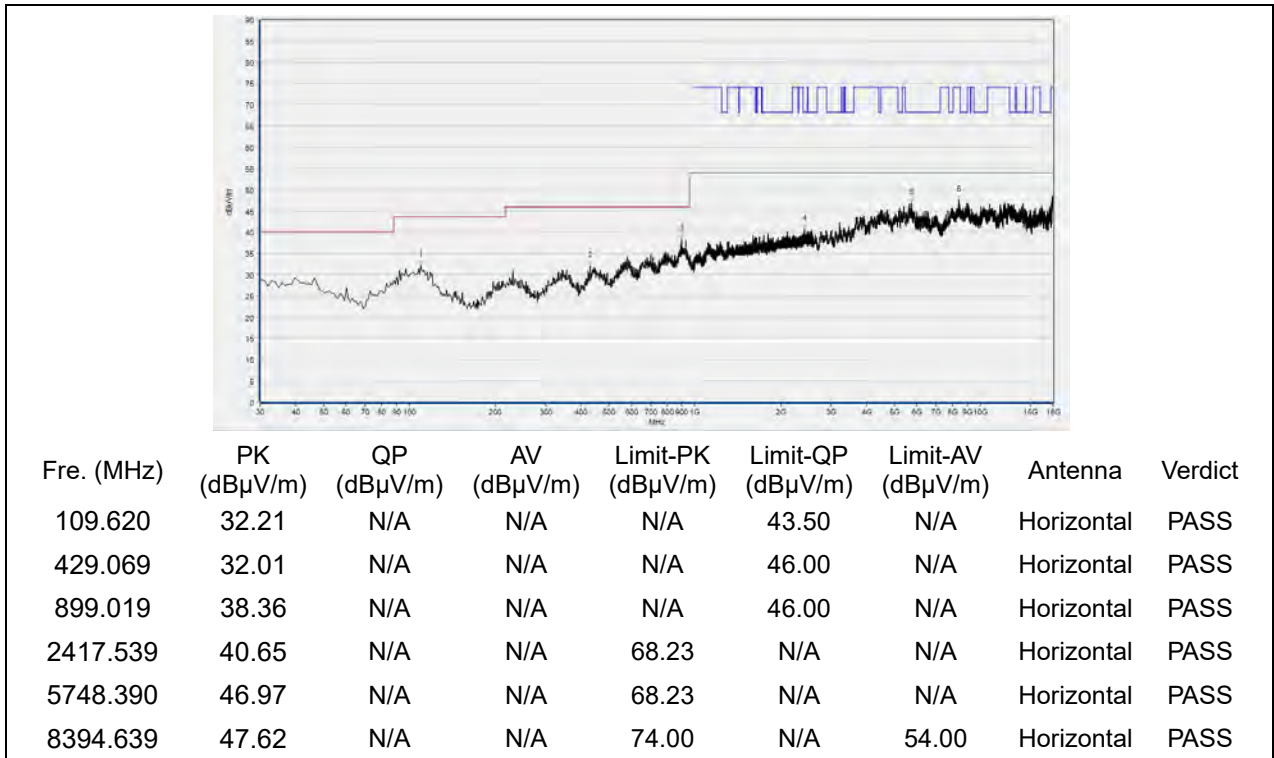
(Antenna Horizontal, 30MHz to 18GHz)



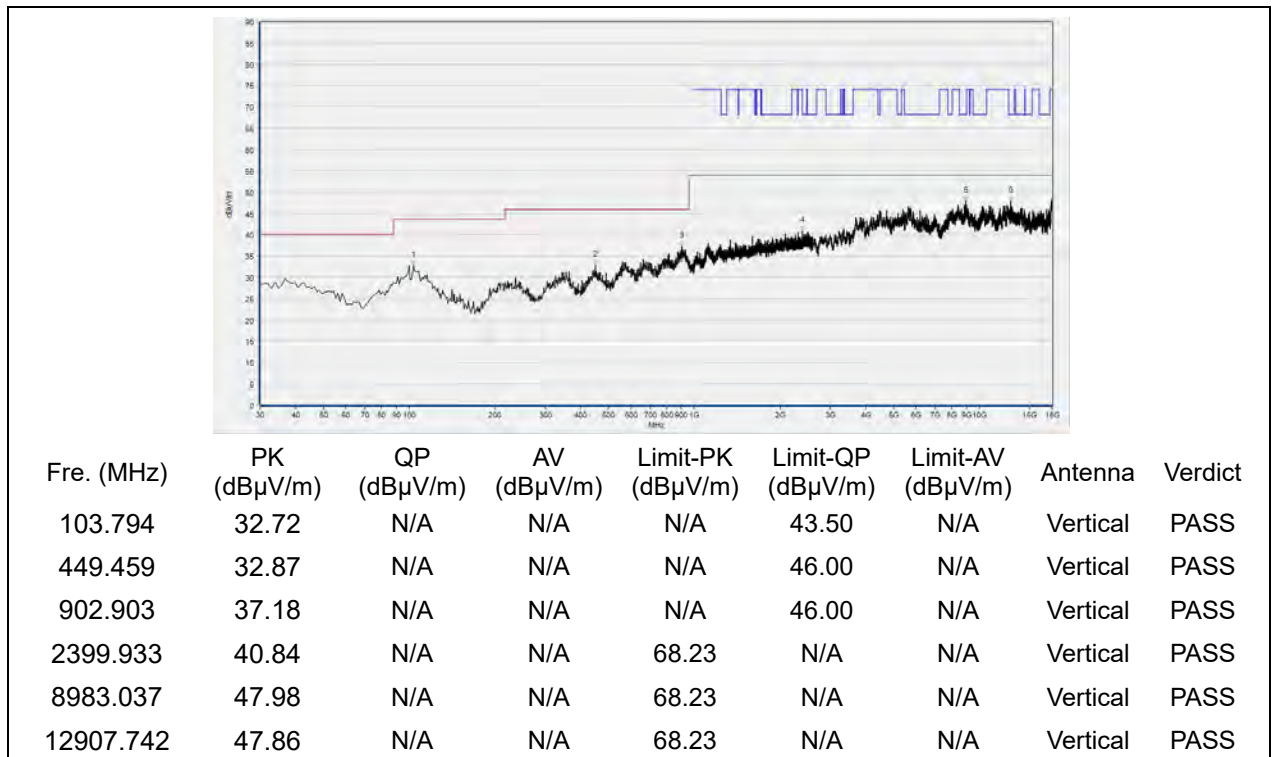
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
107.678	31.31	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
453.343	32.25	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
912.613	37.41	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2462.888	41.74	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8906.021	47.27	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12149.910	47.39	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 157

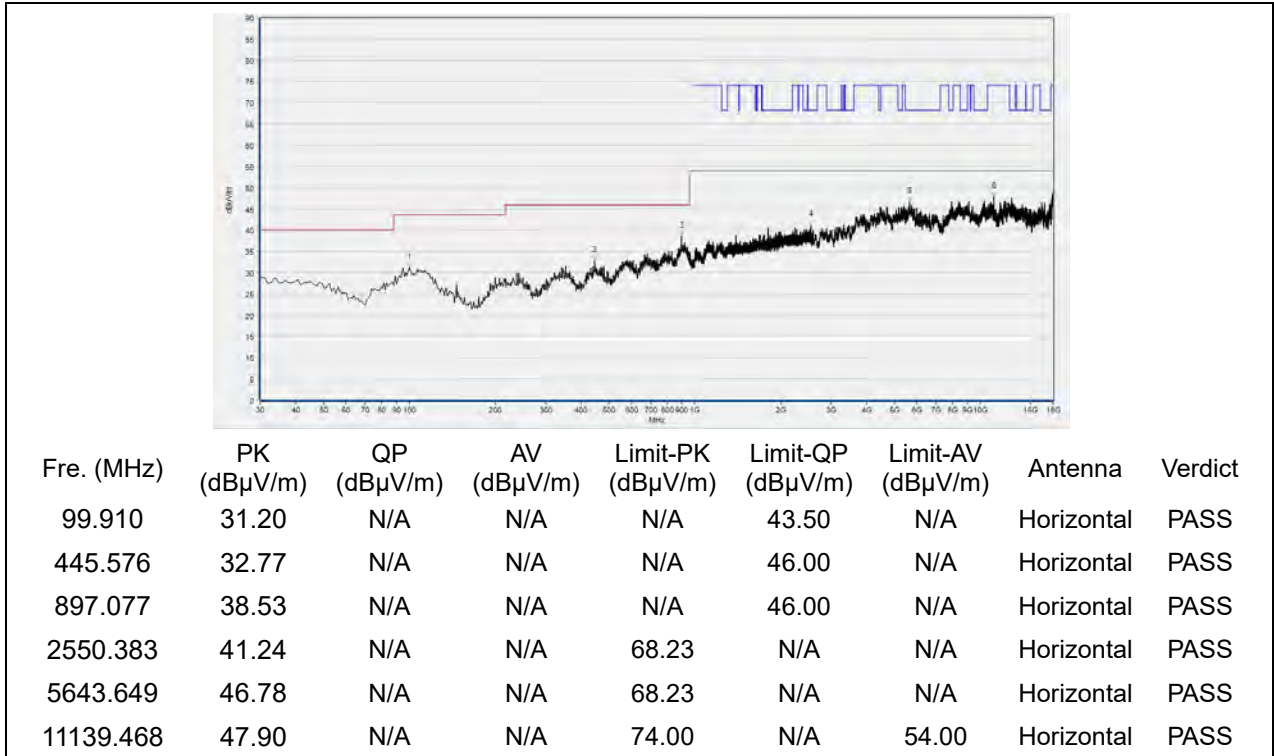


(Antenna Horizontal, 30MHz to 18GHz)

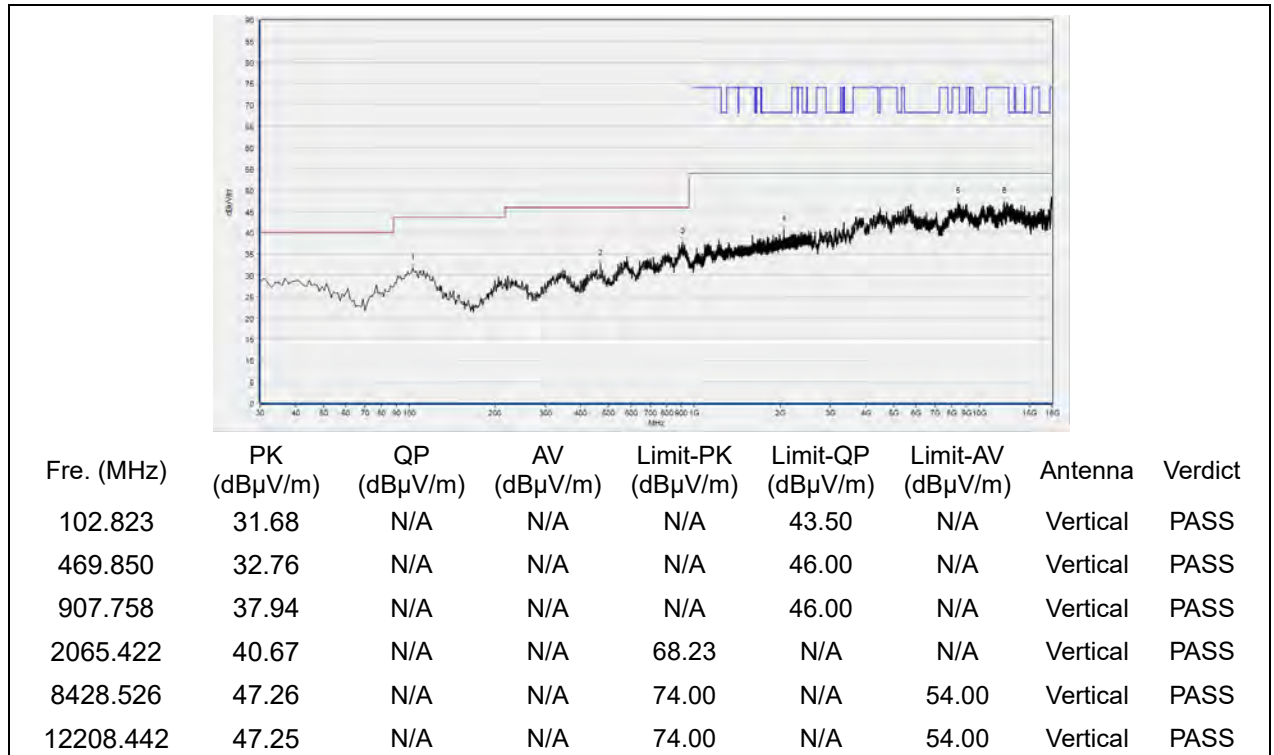


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 165



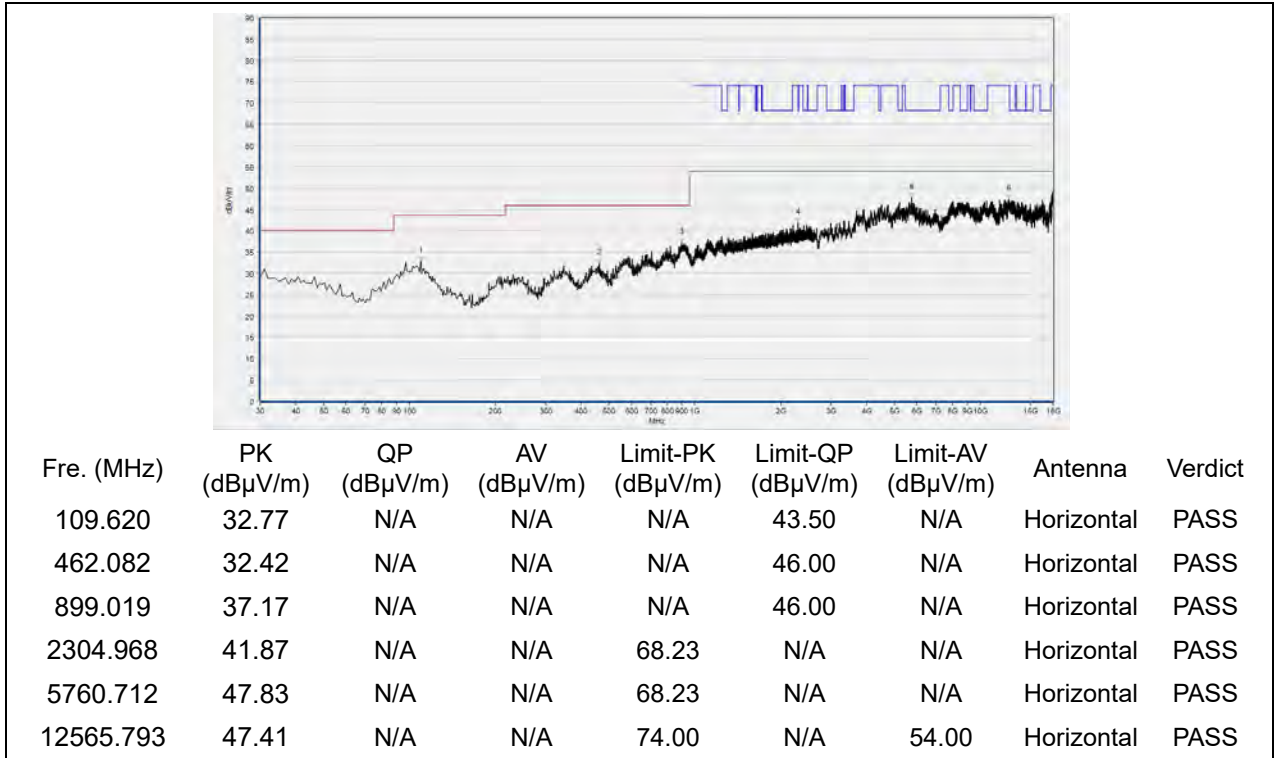
(Antenna Horizontal, 30MHz to 18GHz)



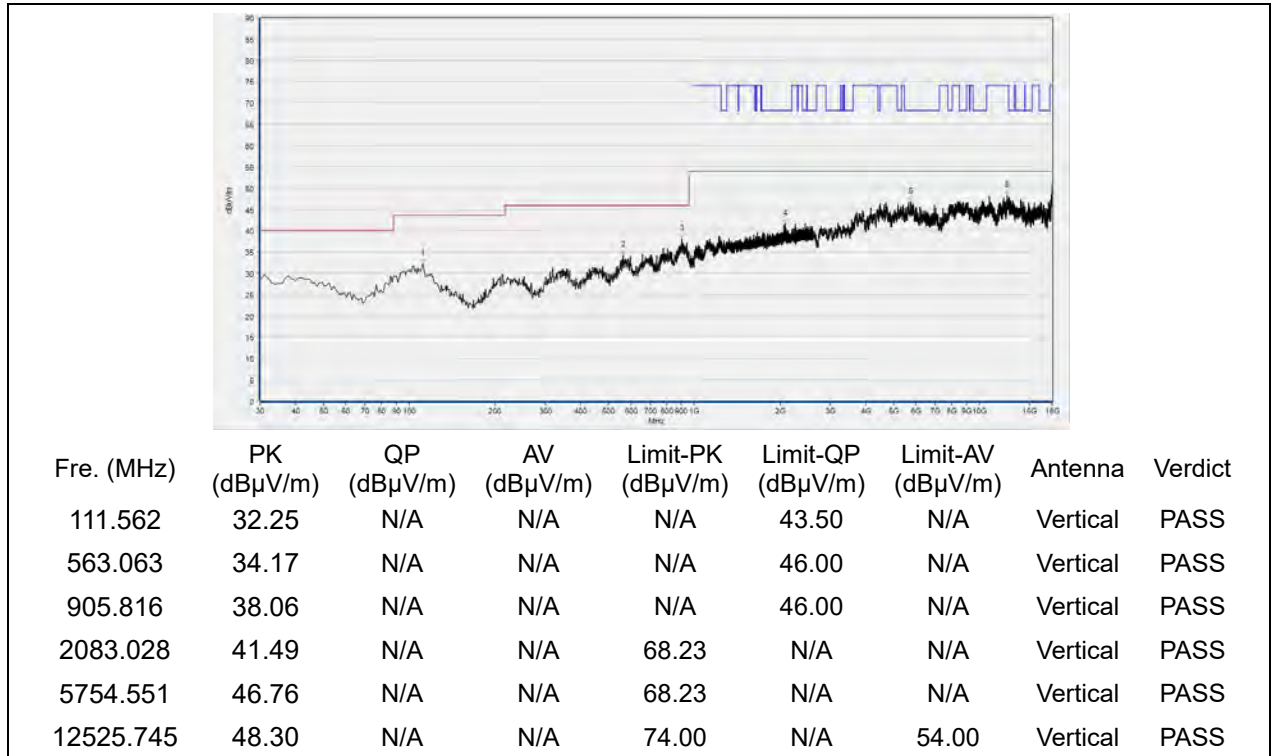
(Antenna Vertical, 30MHz to 18GHz)

802.11n (HT40) mode

Plot for Channel 38

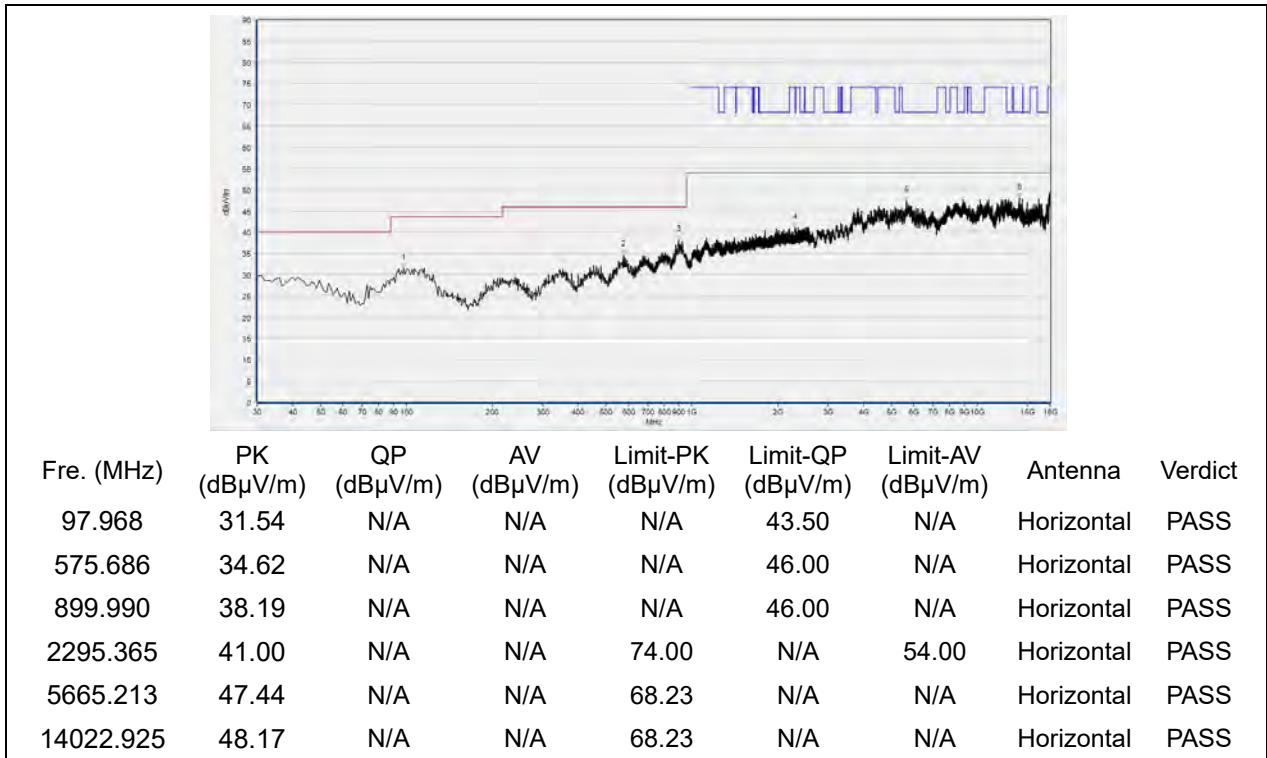


(Antenna Horizontal, 30MHz to 18GHz)

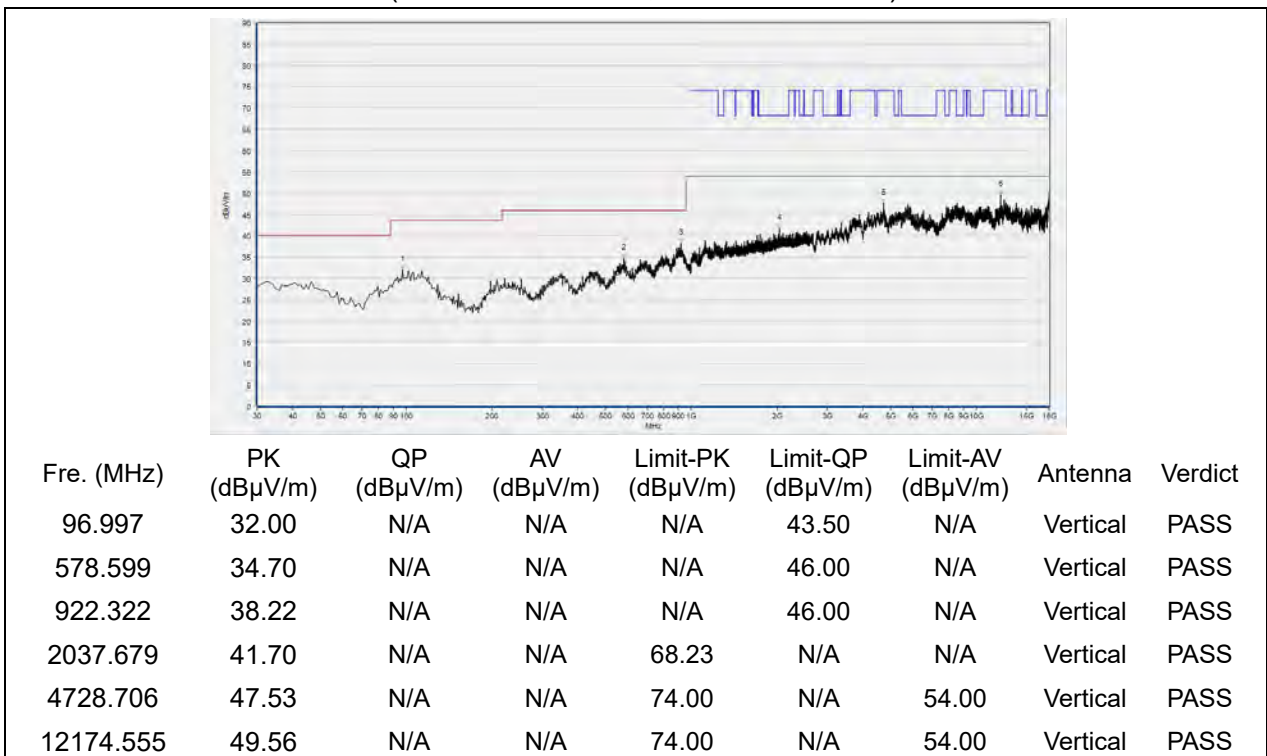


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 46

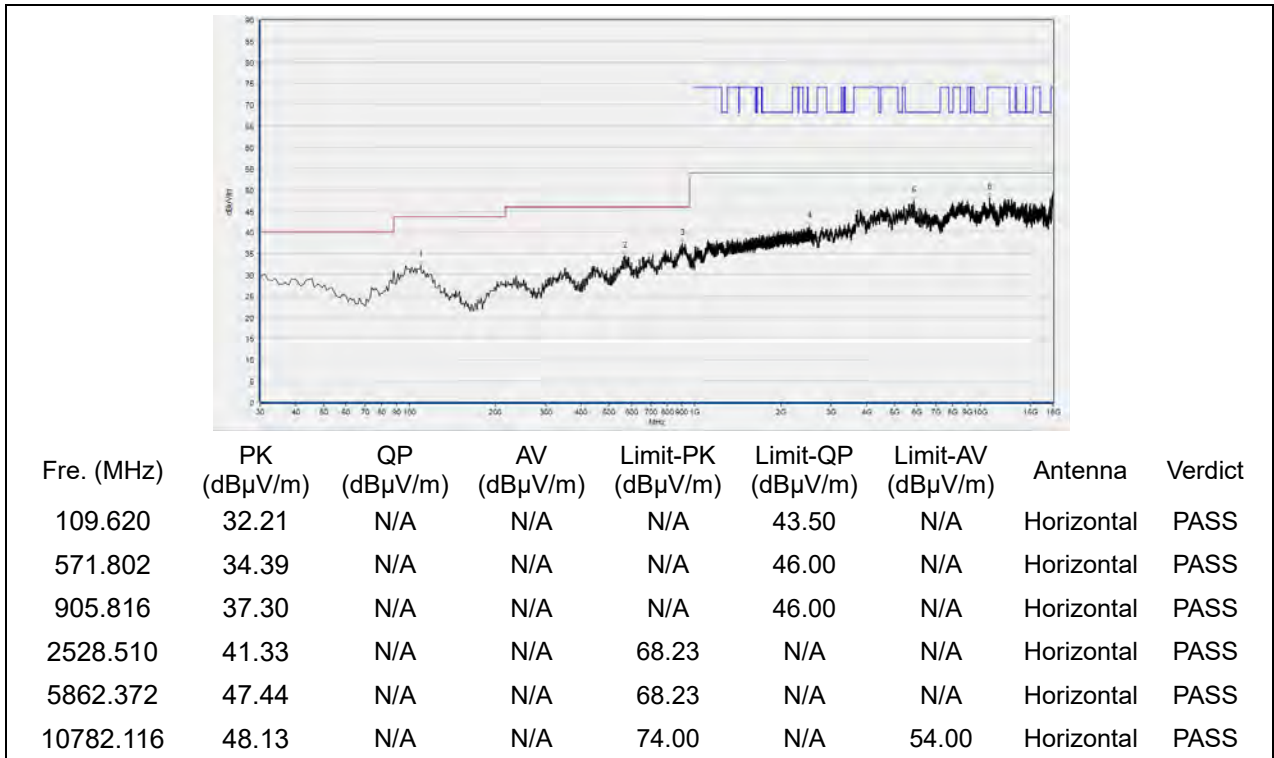


(Antenna Horizontal, 30MHz to 18GHz)

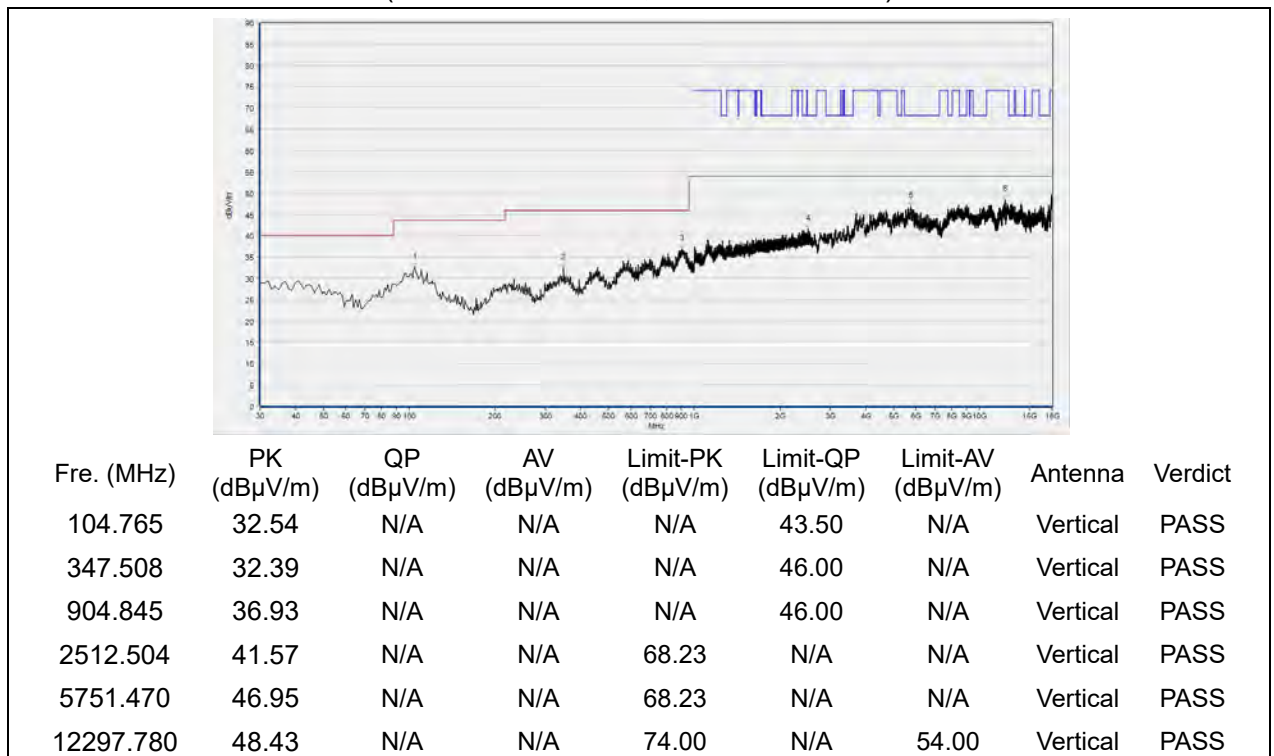


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 54

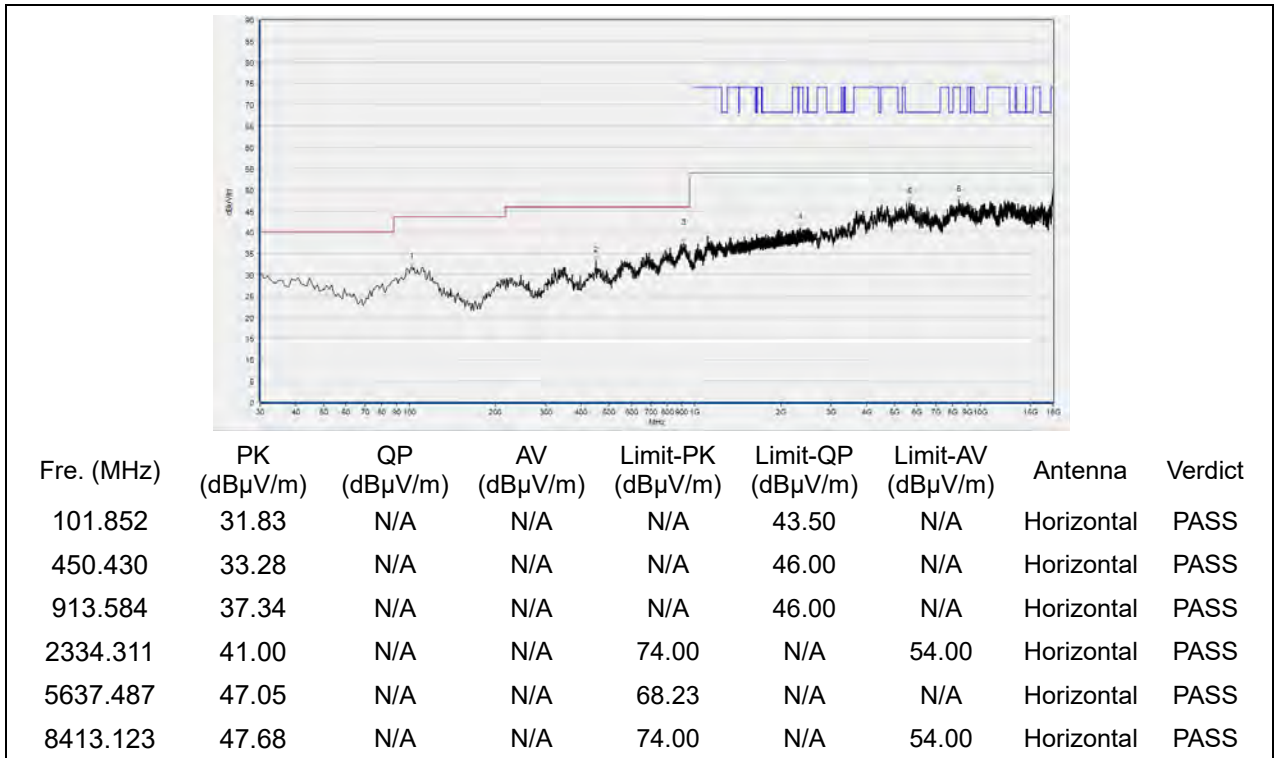


(Antenna Horizontal, 30MHz to 18GHz)

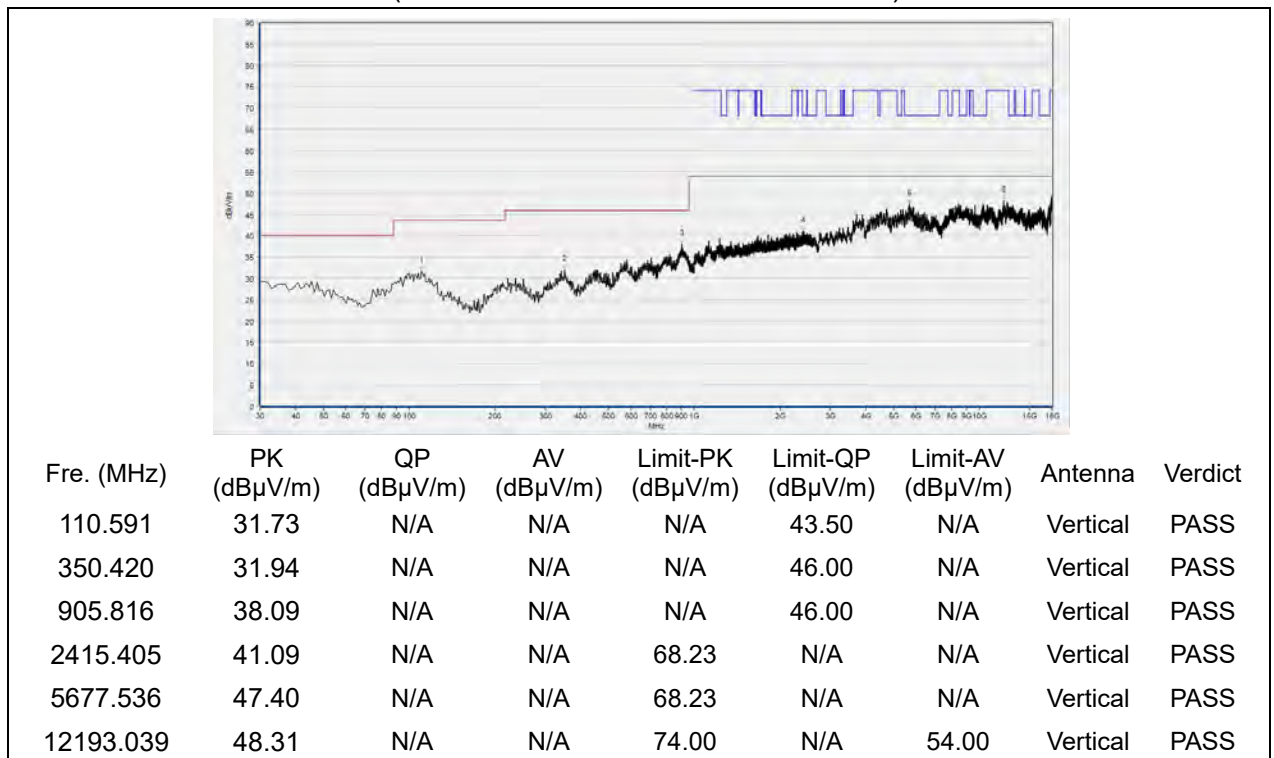


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 62

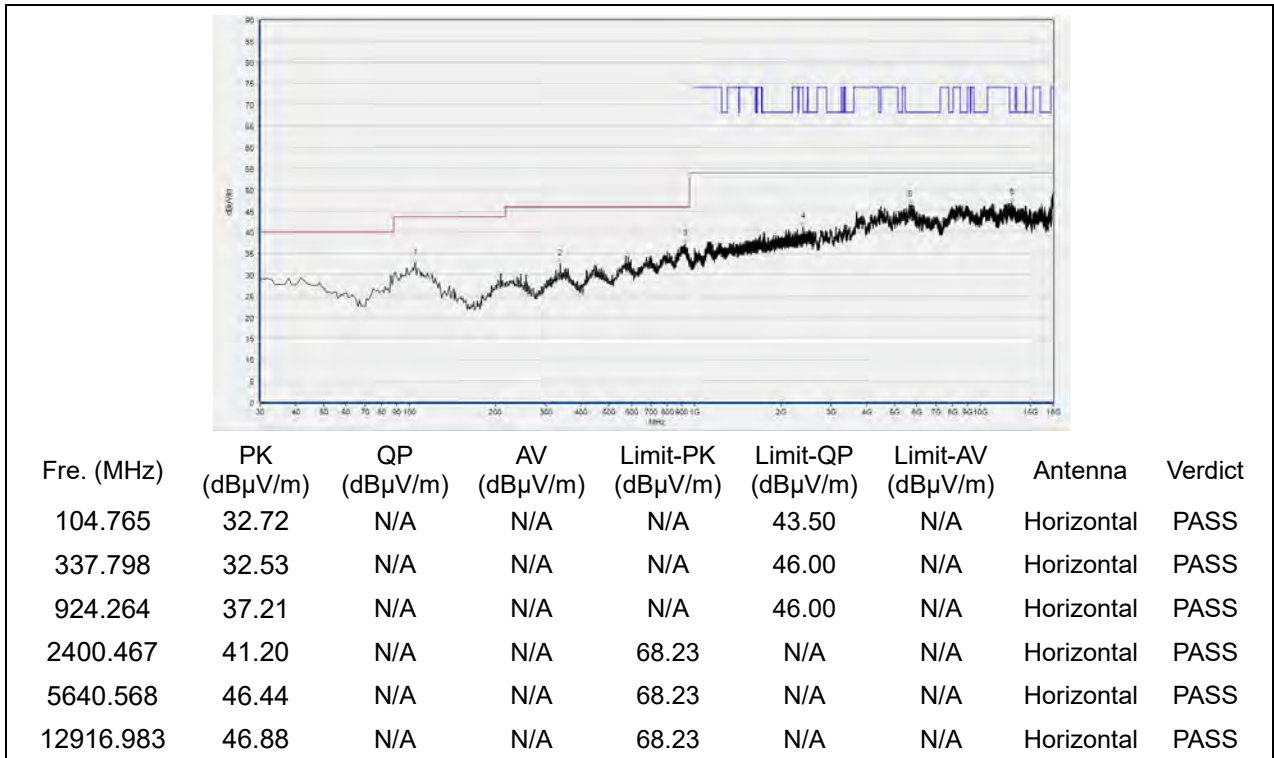


(Antenna Horizontal, 30MHz to 18GHz)

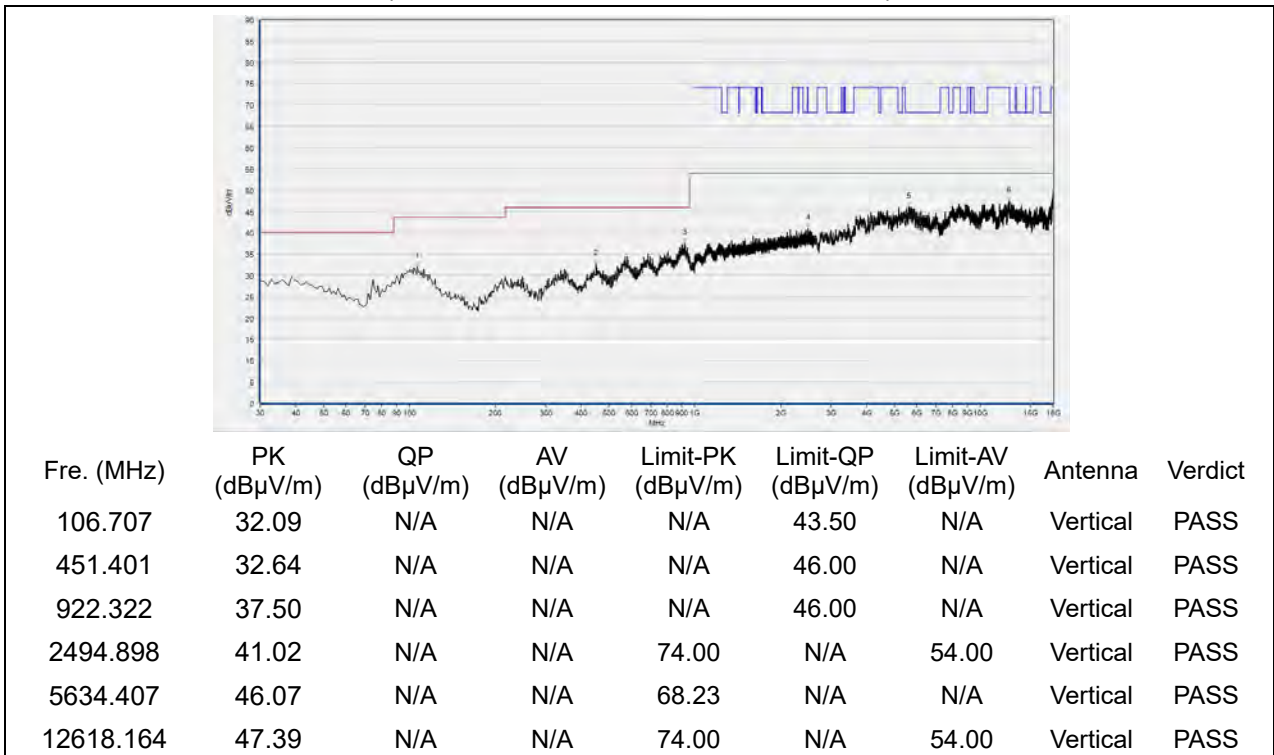


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 102

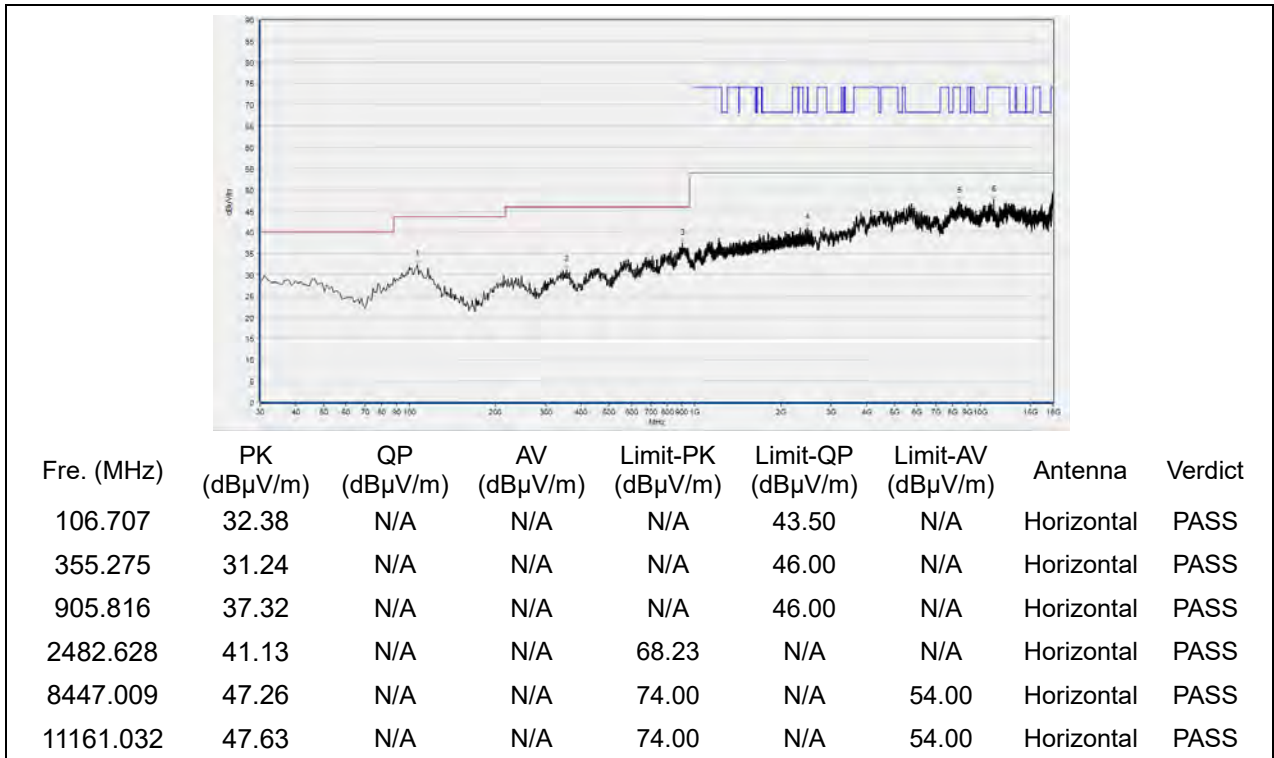


(Antenna Horizontal, 30MHz to 18GHz)

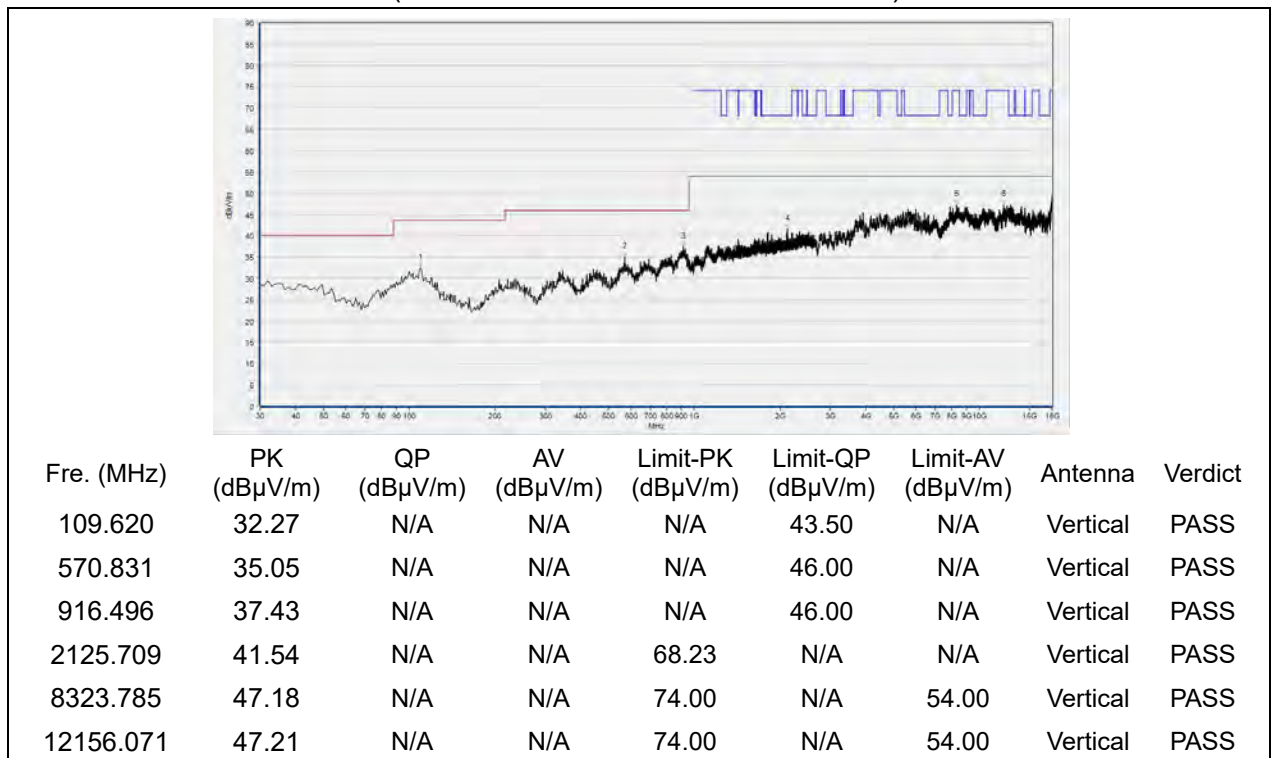


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 126

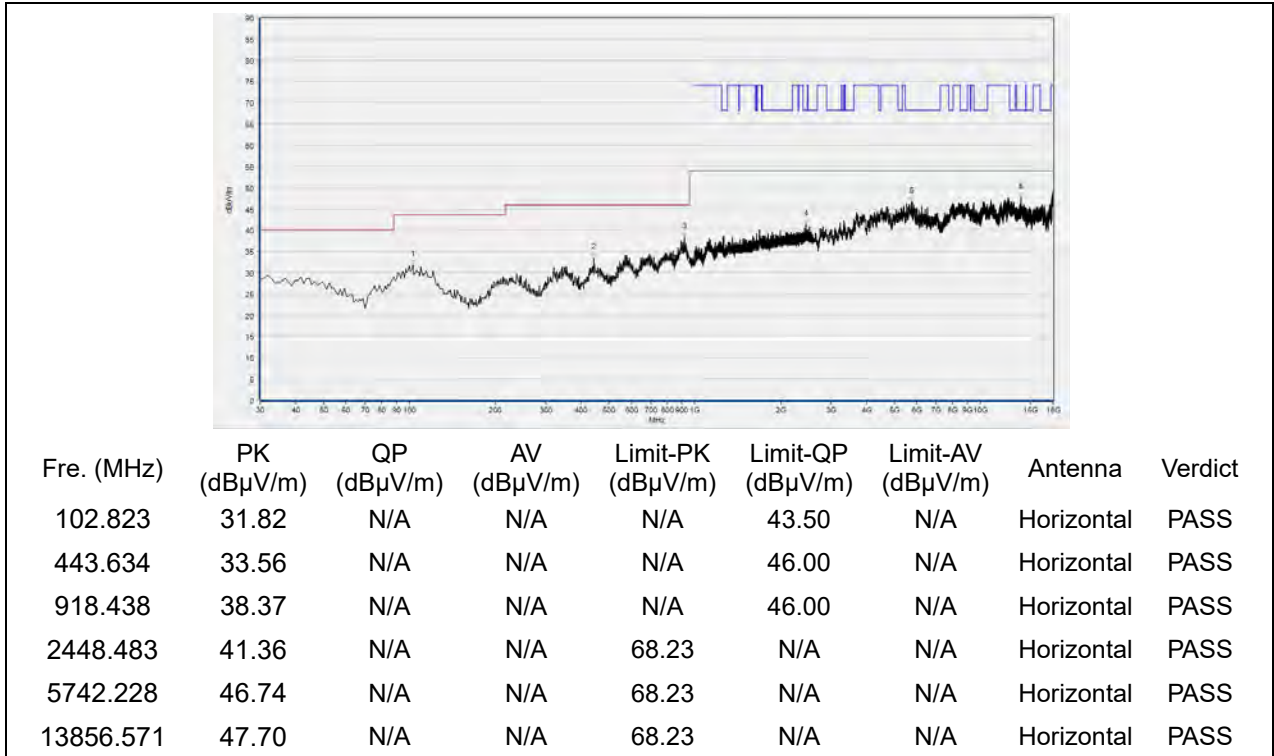


(Antenna Horizontal, 30MHz to 18GHz)

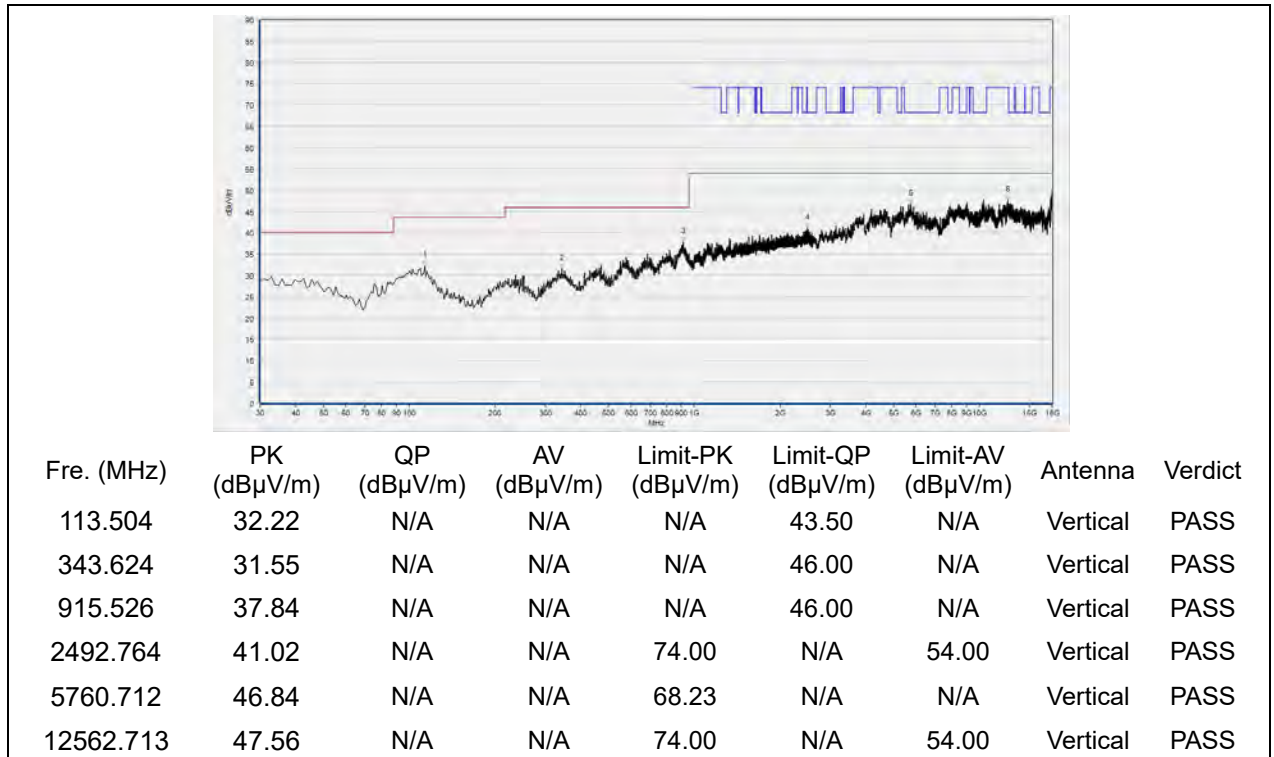


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 142

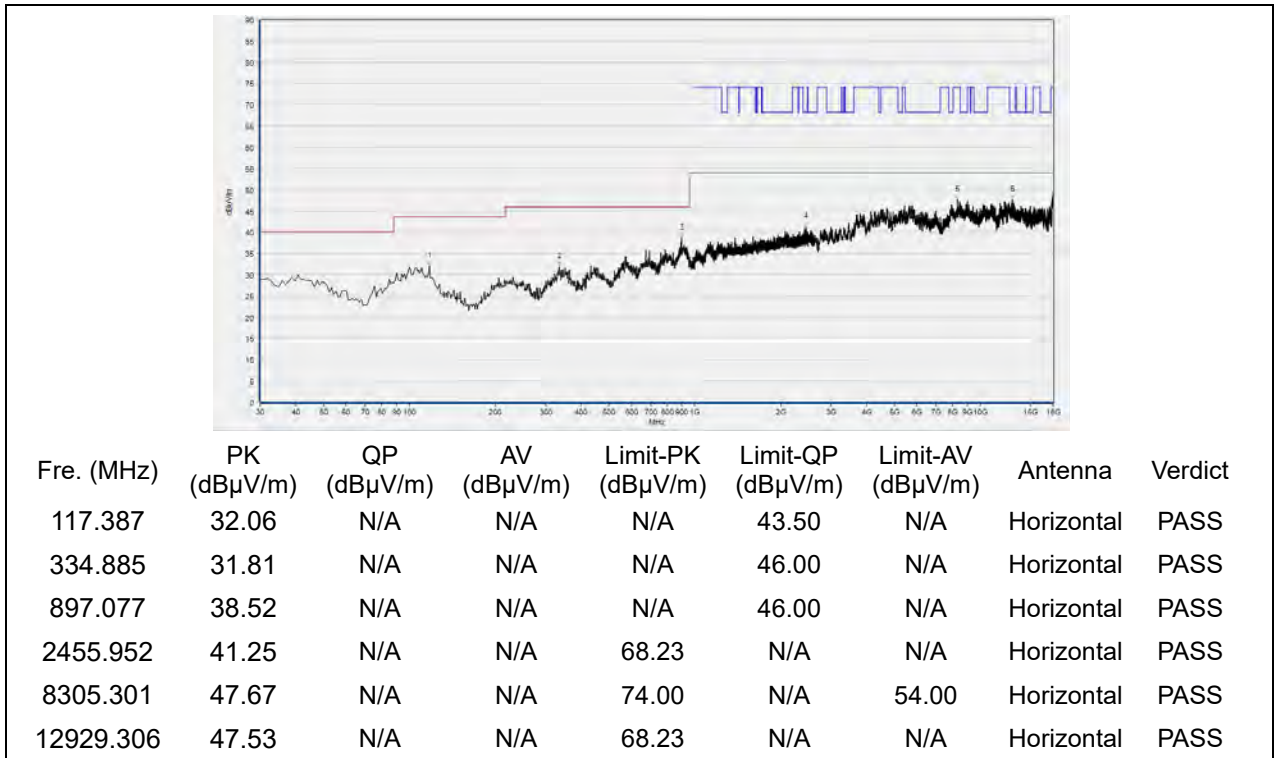


(Antenna Horizontal, 30MHz to 18GHz)

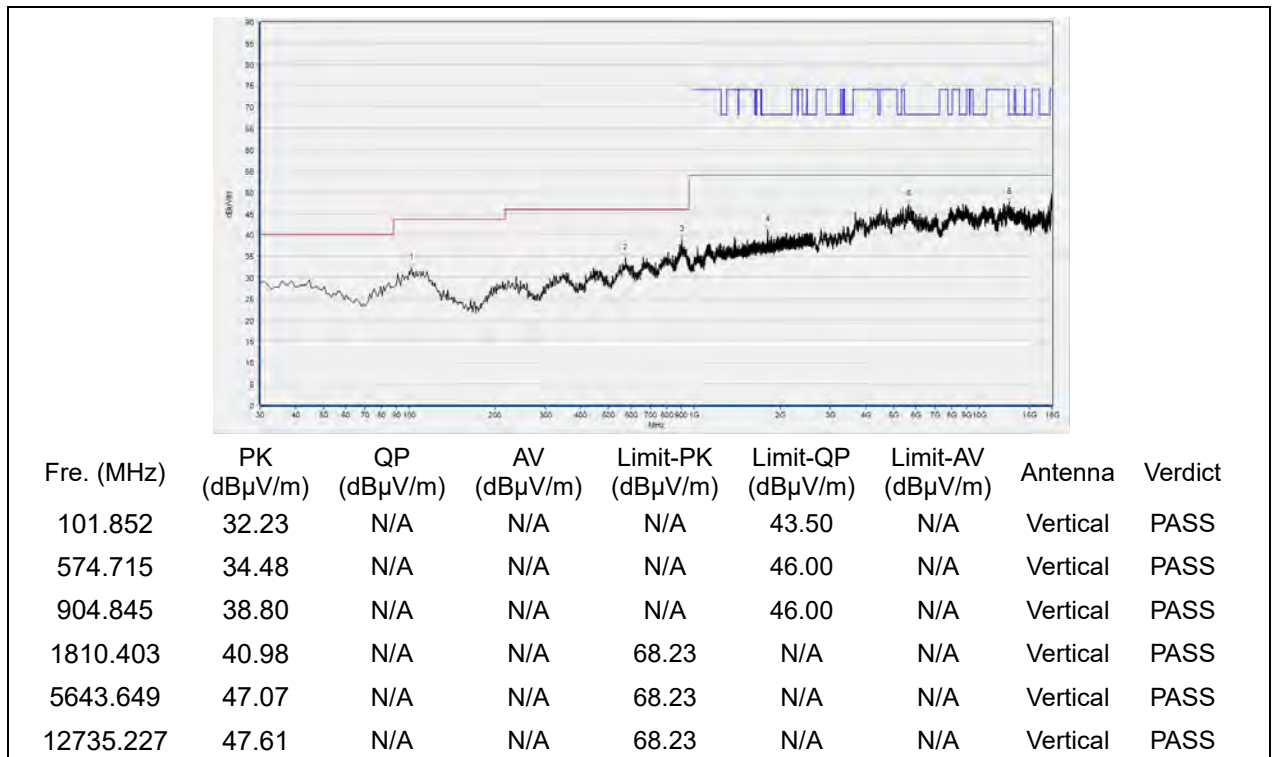


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 151

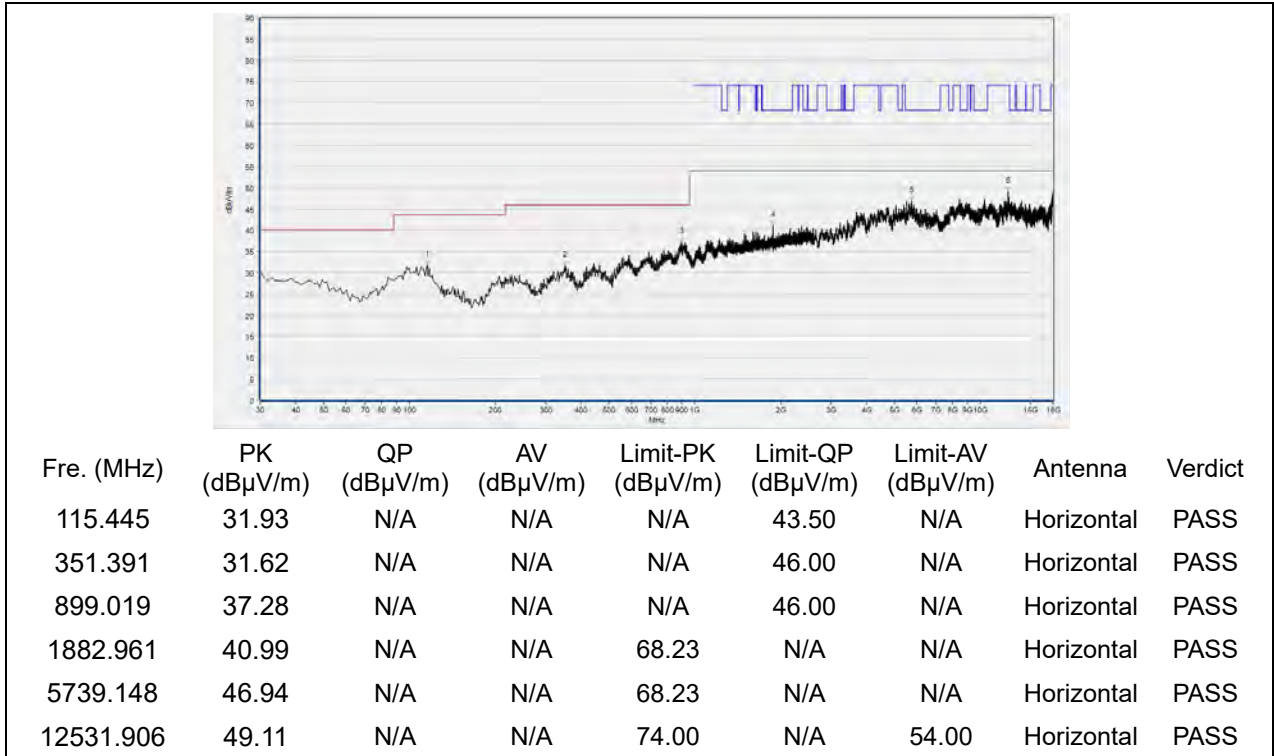


(Antenna Horizontal, 30MHz to 18GHz)

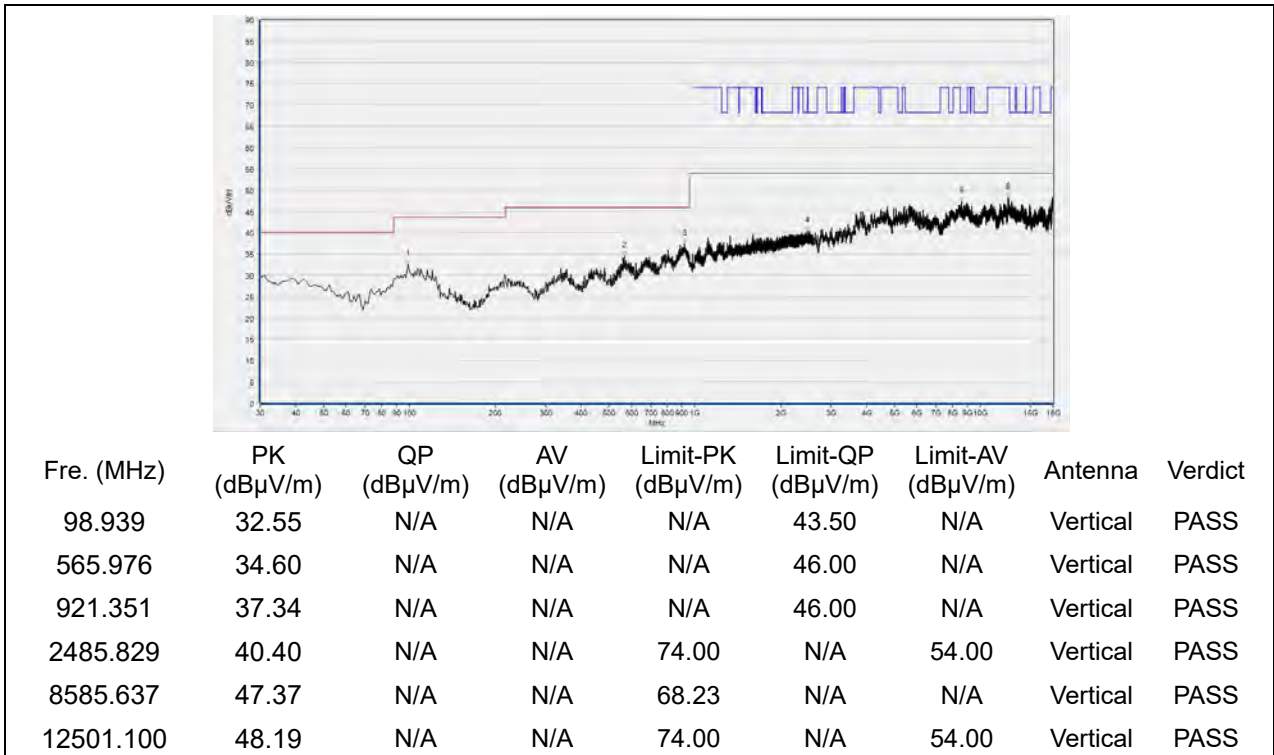


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 159



(Antenna Horizontal, 30MHz to 18GHz)

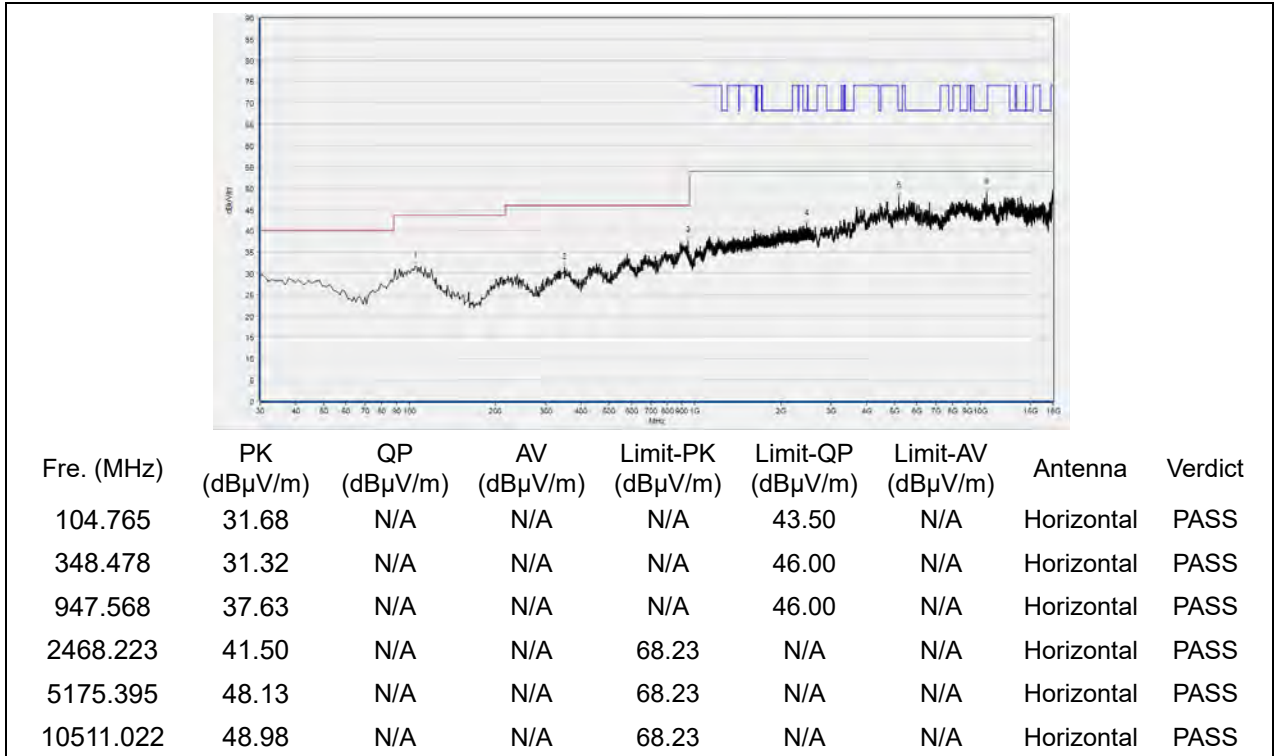


(Antenna Vertical, 30MHz to 18GHz)

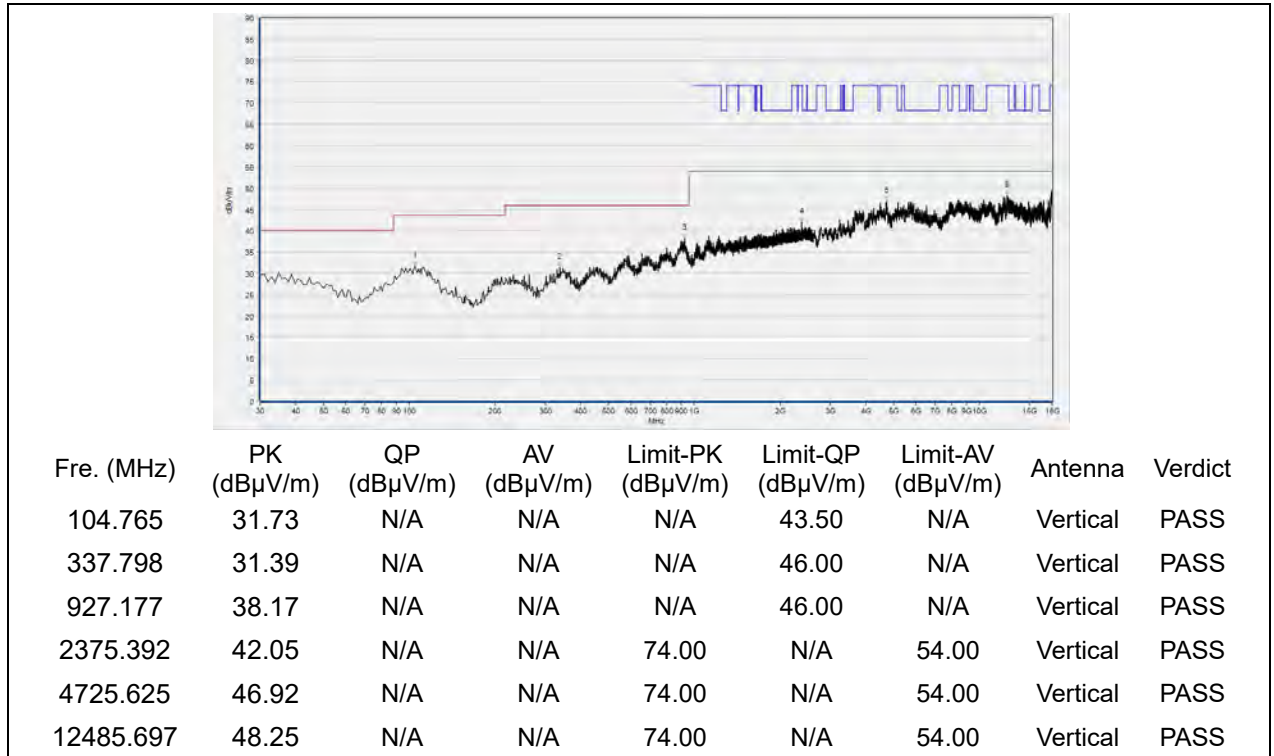


802.11ac (VHT80) Mode

Plot for Channel 42

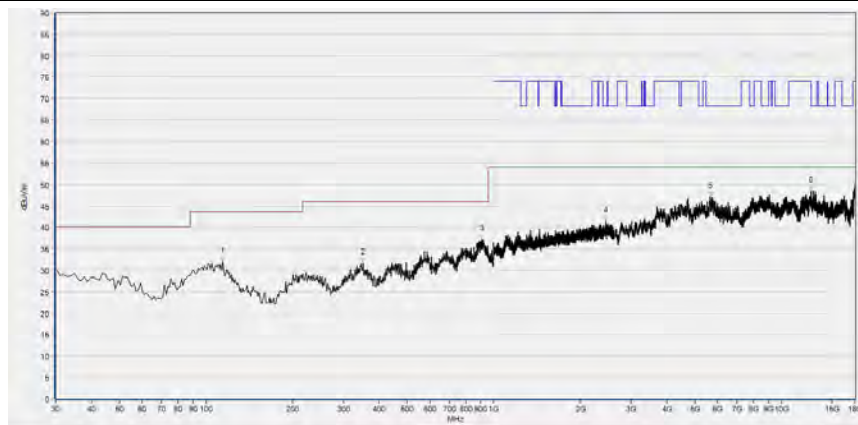


(Antenna Horizontal, 30MHz to 18GHz)



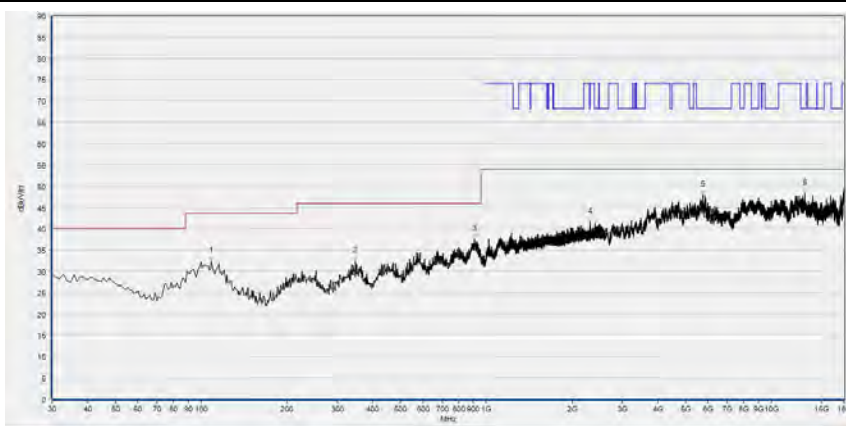
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 58



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
114.474	31.94	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
350.420	31.68	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
908.729	37.14	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2445.815	41.41	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5646.729	47.17	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12642.809	48.45	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

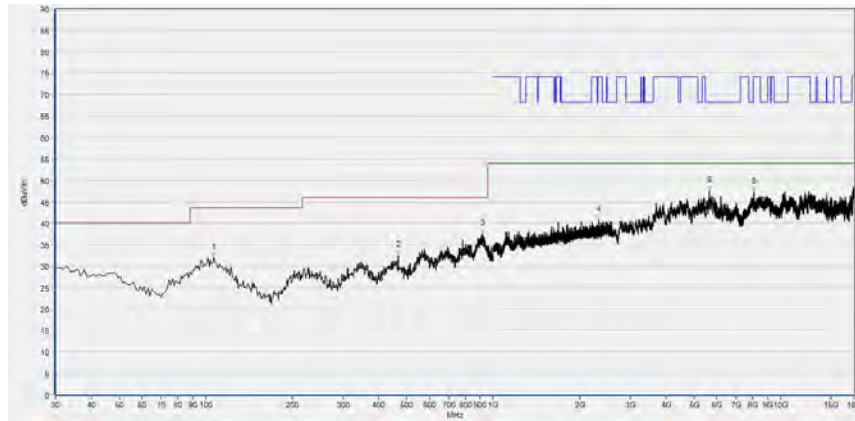
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
108.649	32.28	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
347.508	32.33	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
908.729	37.60	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2307.102	41.57	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5760.712	47.87	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
13092.579	48.35	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

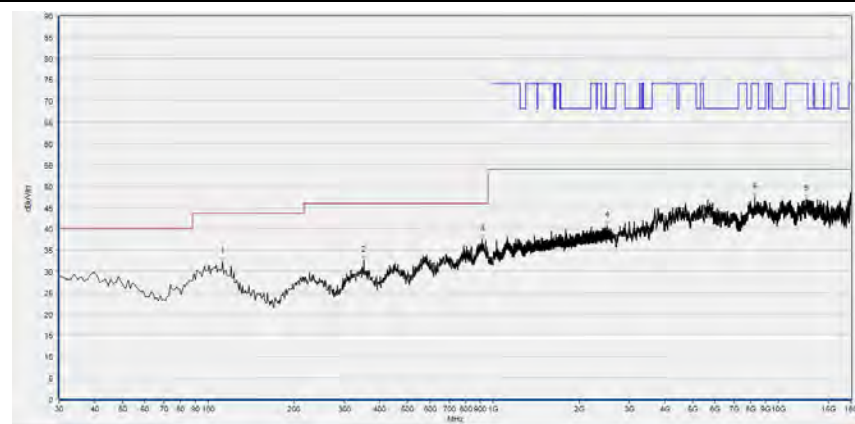
(Antenna Vertical, 30MHz to 18GHz)

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	32.02	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
467.908	32.48	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
921.351	37.57	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2328.443	40.81	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5646.729	47.55	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8080.416	47.31	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

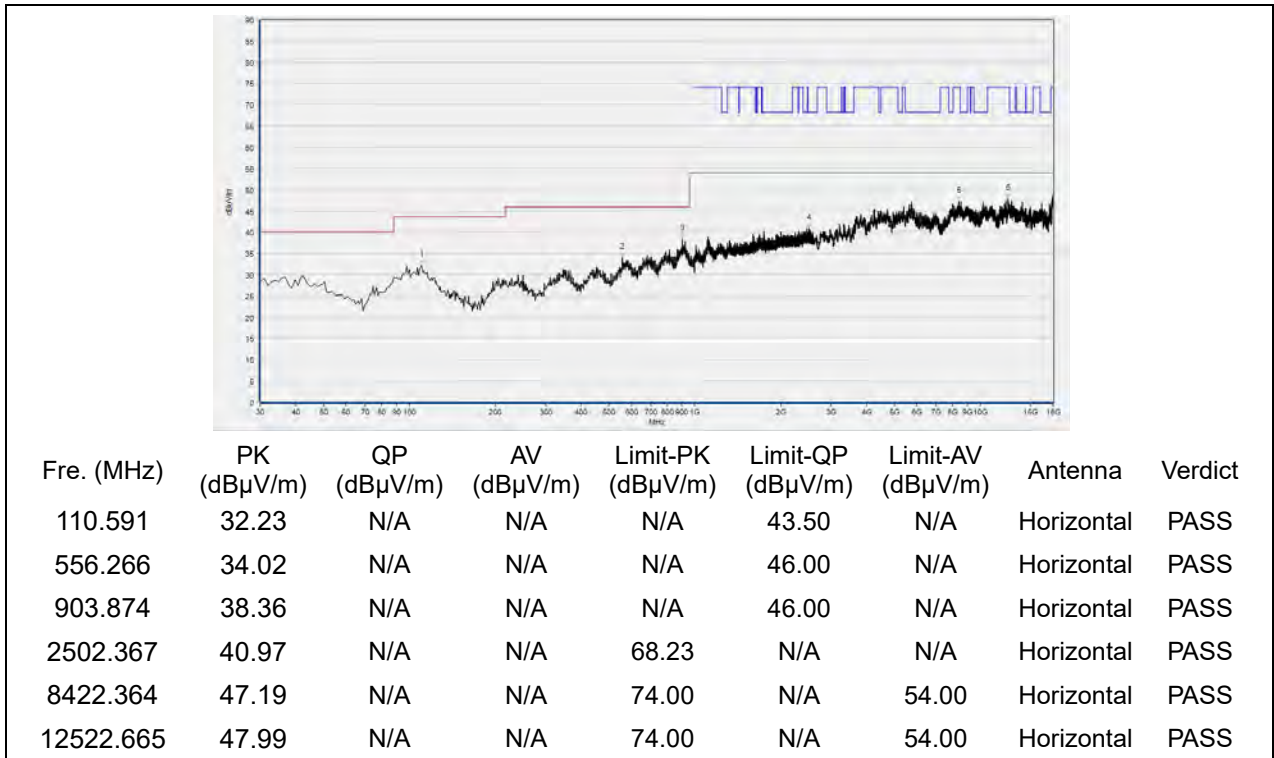
(Antenna Horizontal, 30MHz to 18GHz)



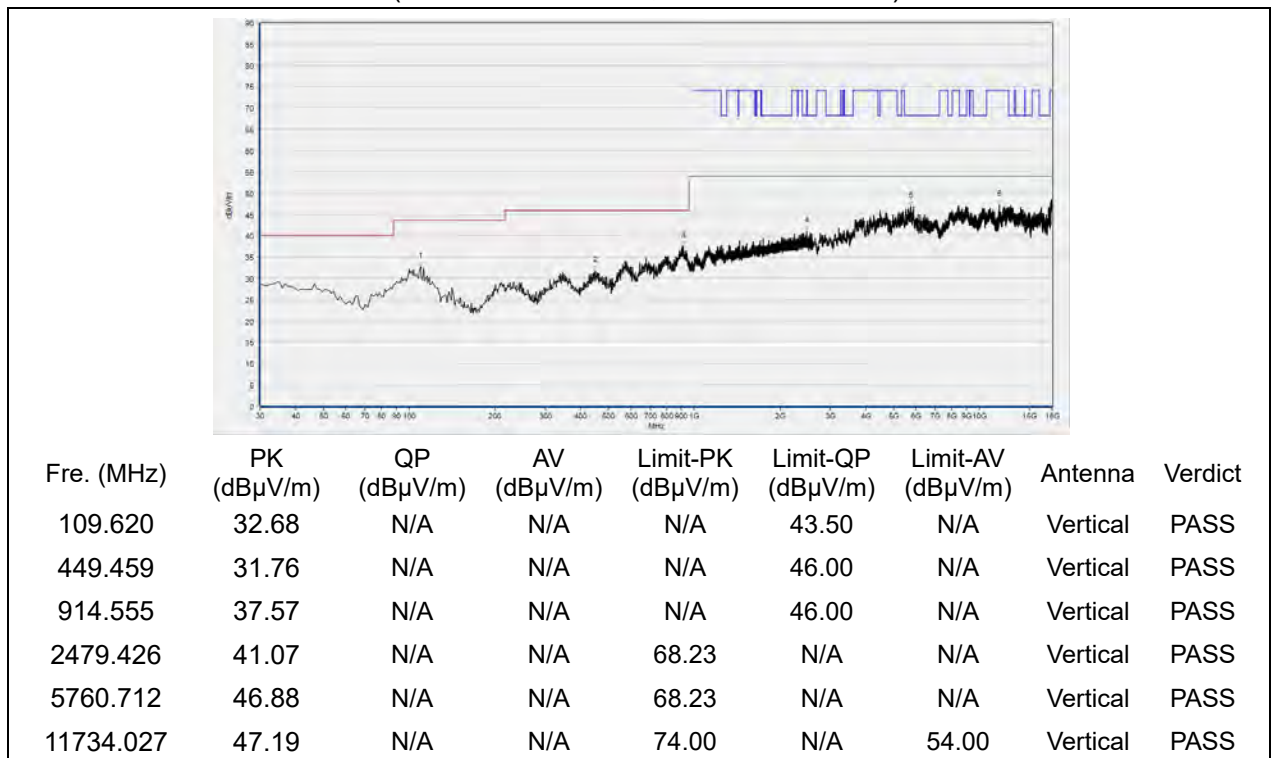
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
112.533	32.10	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
352.362	32.51	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
915.526	37.62	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2504.502	40.64	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8252.931	47.40	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12522.665	46.86	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 122

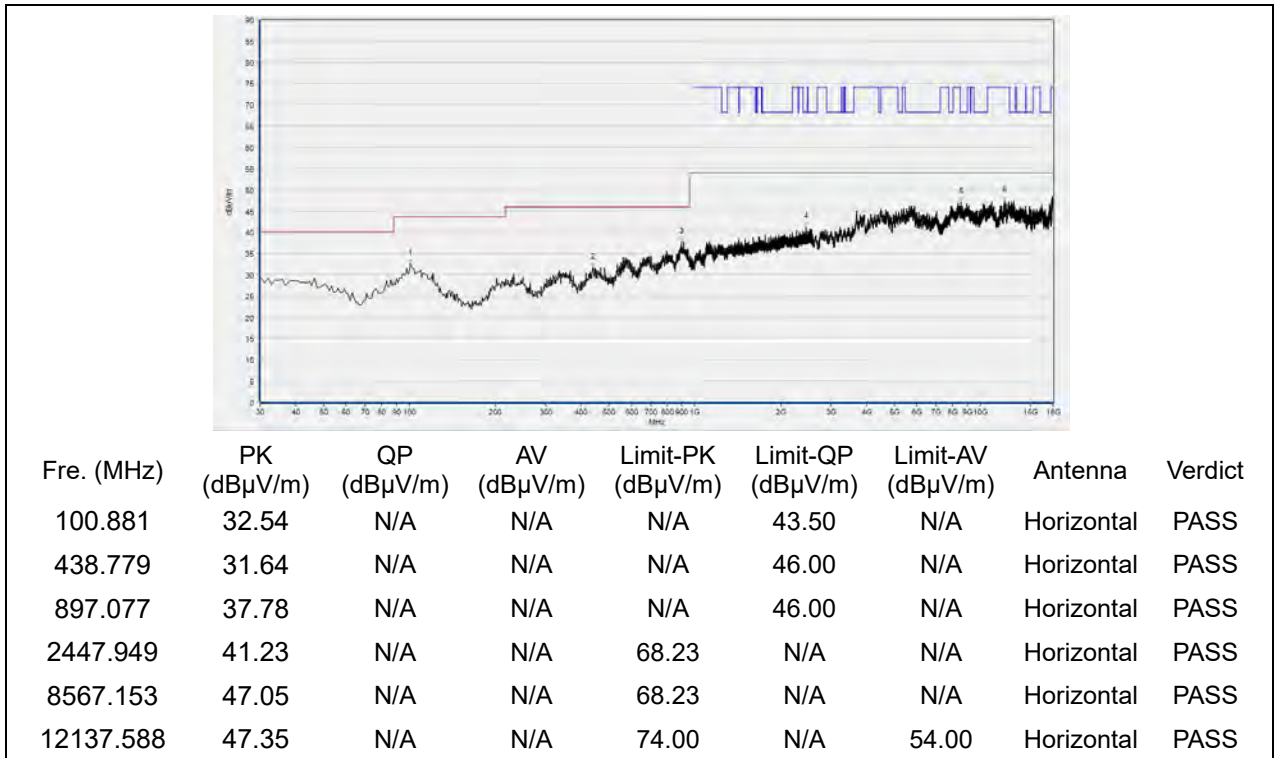


(Antenna Horizontal, 30MHz to 18GHz)

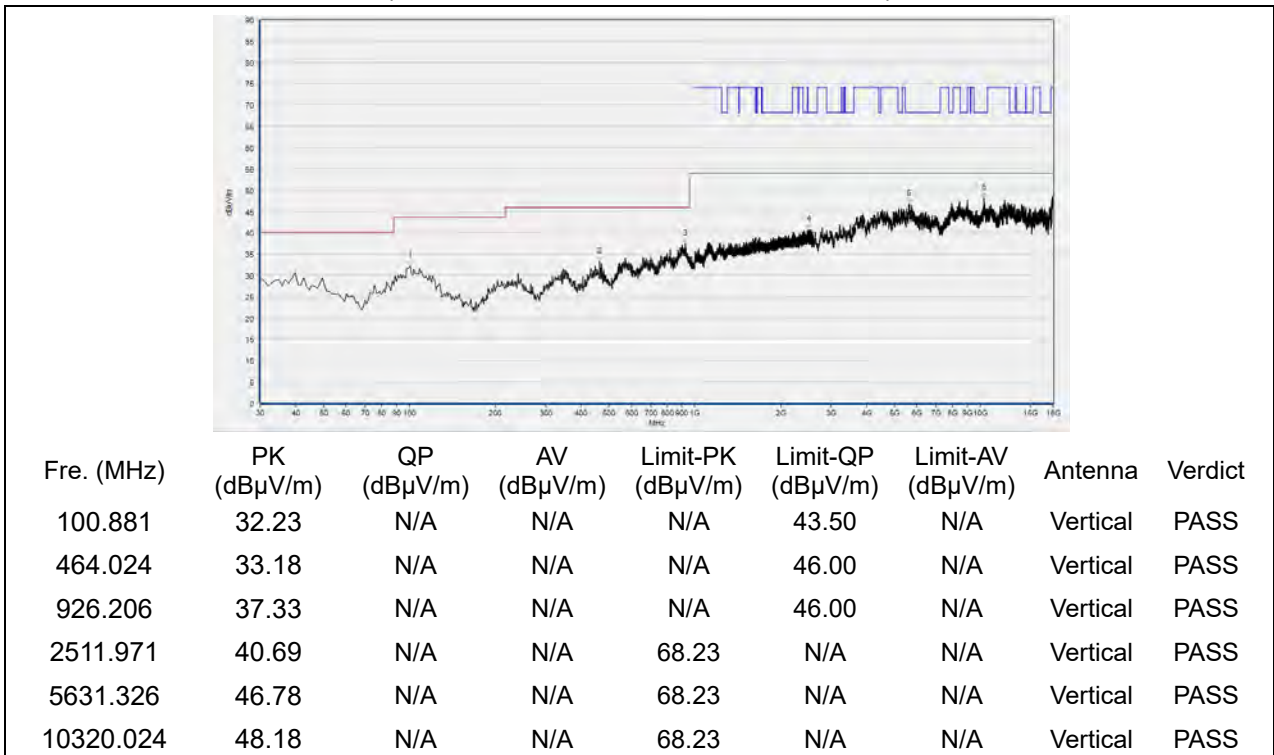


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 138

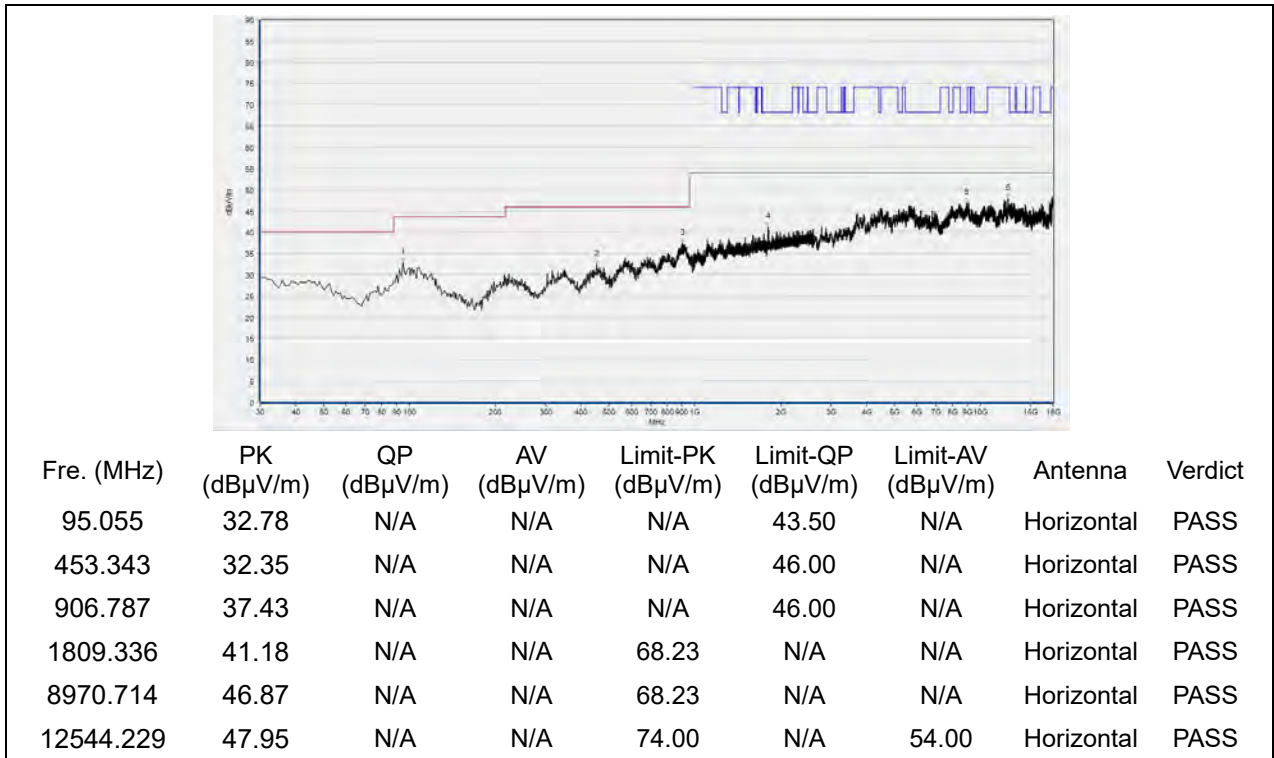


(Antenna Horizontal, 30MHz to 18GHz)

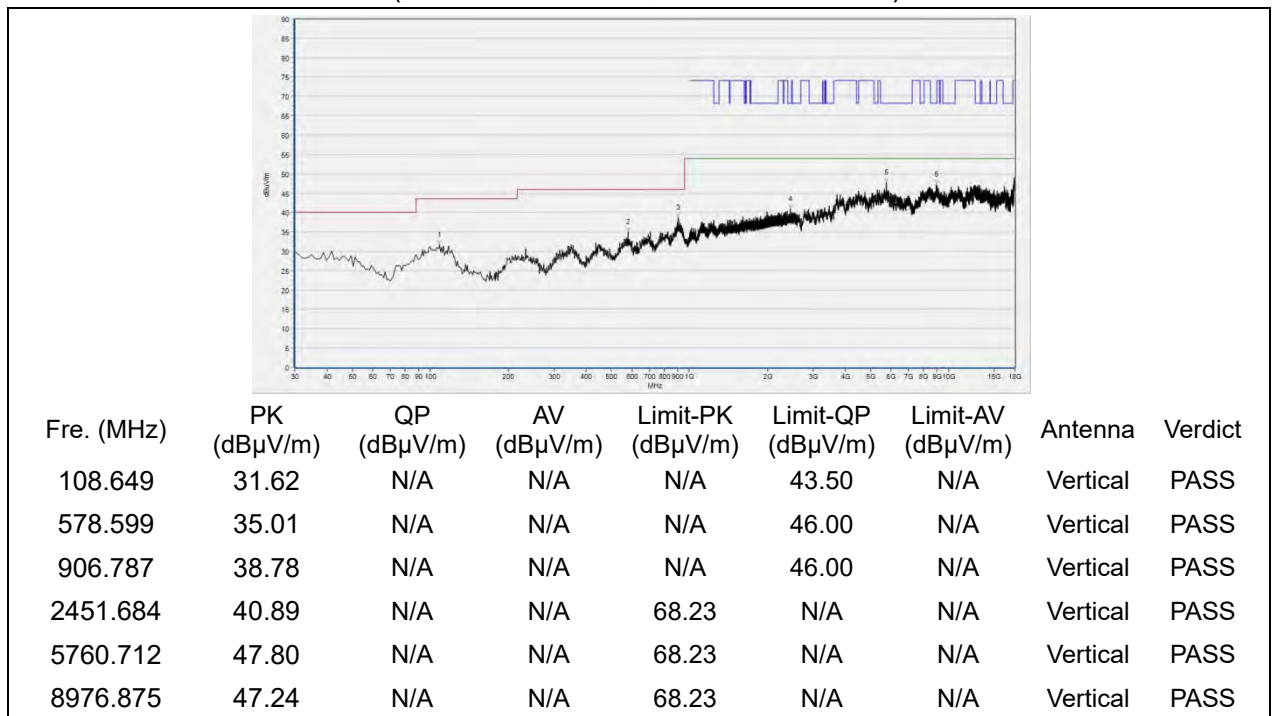


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 155



(Antenna Horizontal, 30MHz to 18GHz)



(Antenna Vertical, 30MHz to 18GHz)

————— END OF REPORT —————