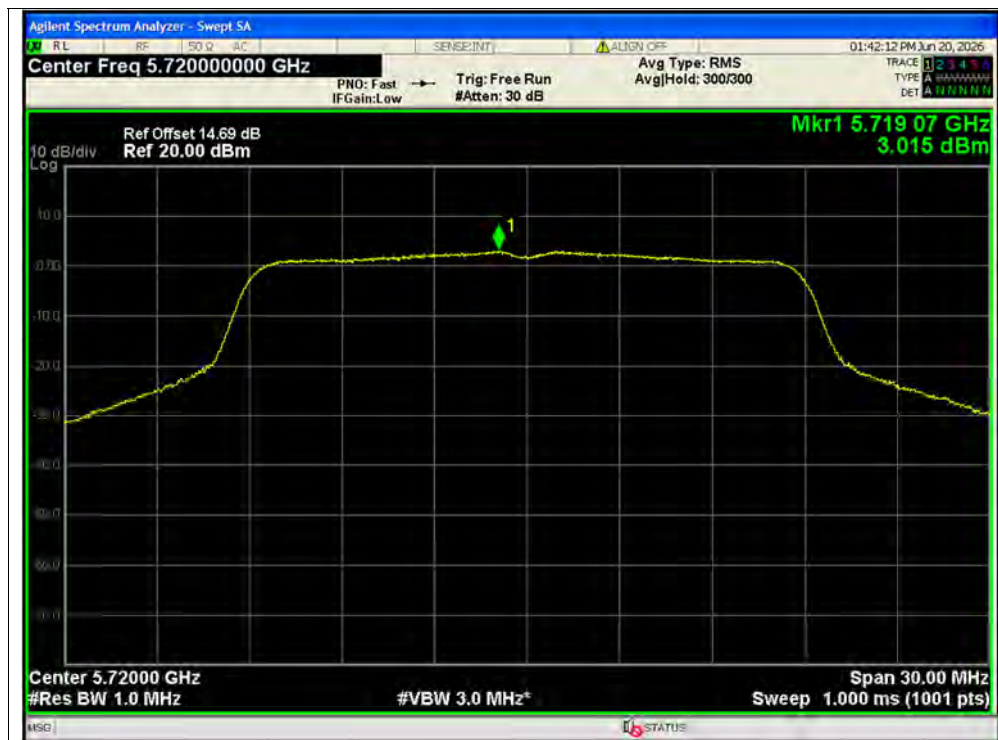




PSD NVNT n20 5720MHz Ant1



PSD NVNT n20 5745MHz Ant1





PSD NVNT n40 5190MHz Ant1



PSD NVNT n40 5230MHz Ant1



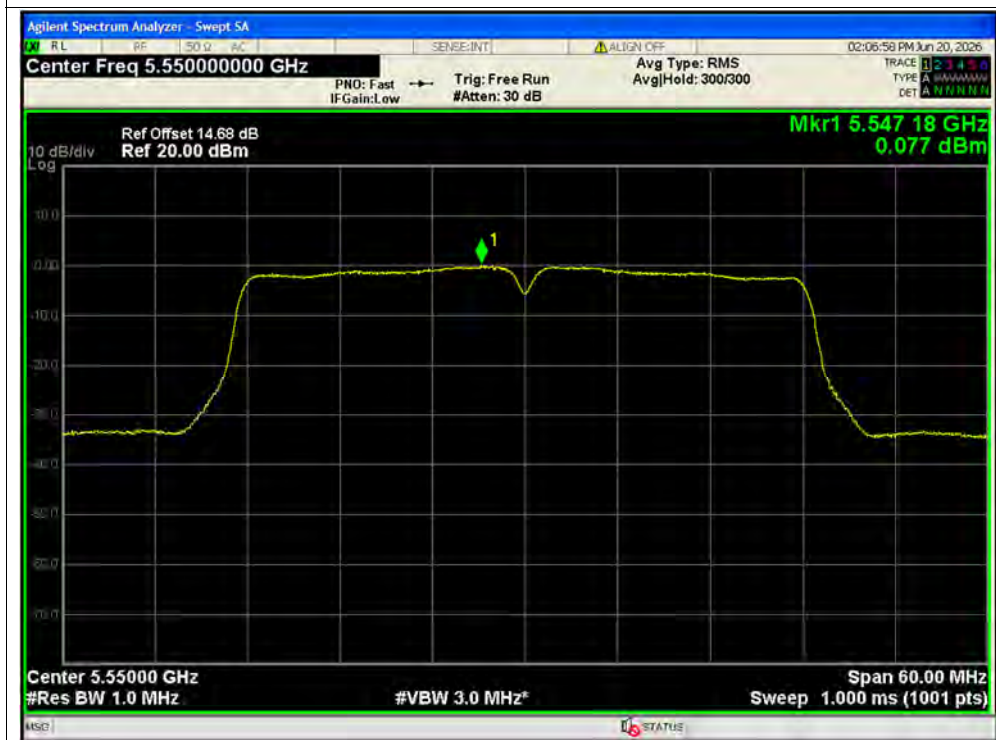
PSD NVNT n40 5270MHz Ant1



PSD NVNT n40 5310MHz Ant1



PSD NVNT n40 5510MHz Ant1



PSD NVNT n40 5550MHz Ant1



PSD NVNT n40 5710MHz Ant1



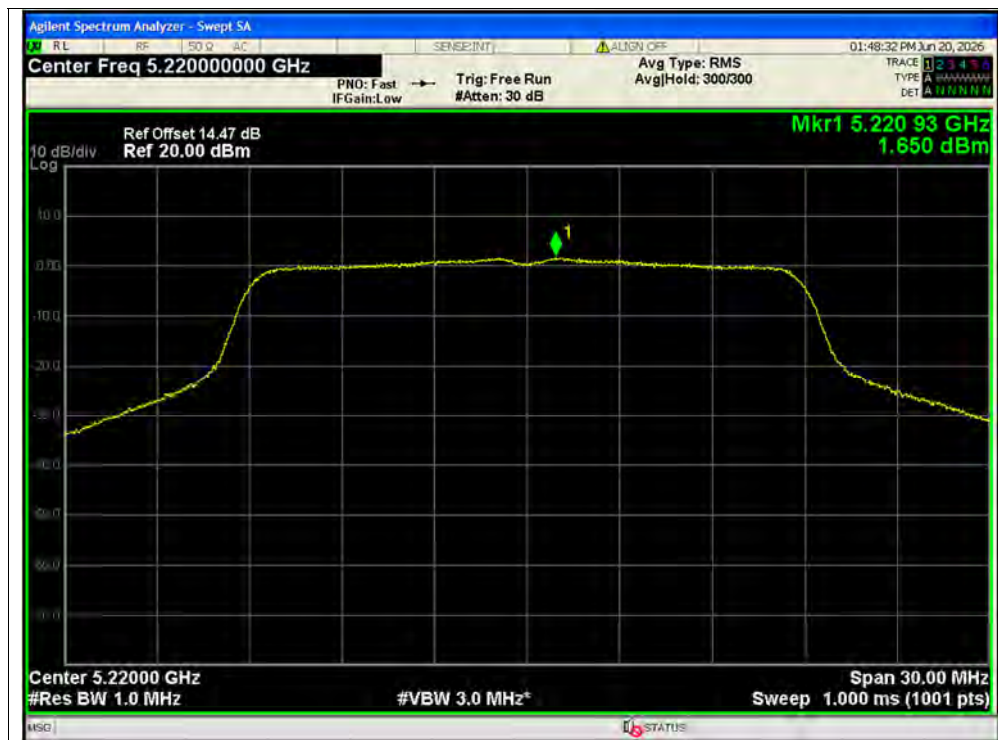
PSD NVNT n40 5755MHz Ant1



PSD NVNT n40 5795MHz Ant1



PSD NVNT ac20 5180MHz Ant1



PSD NVNT ac20 5220MHz Ant1



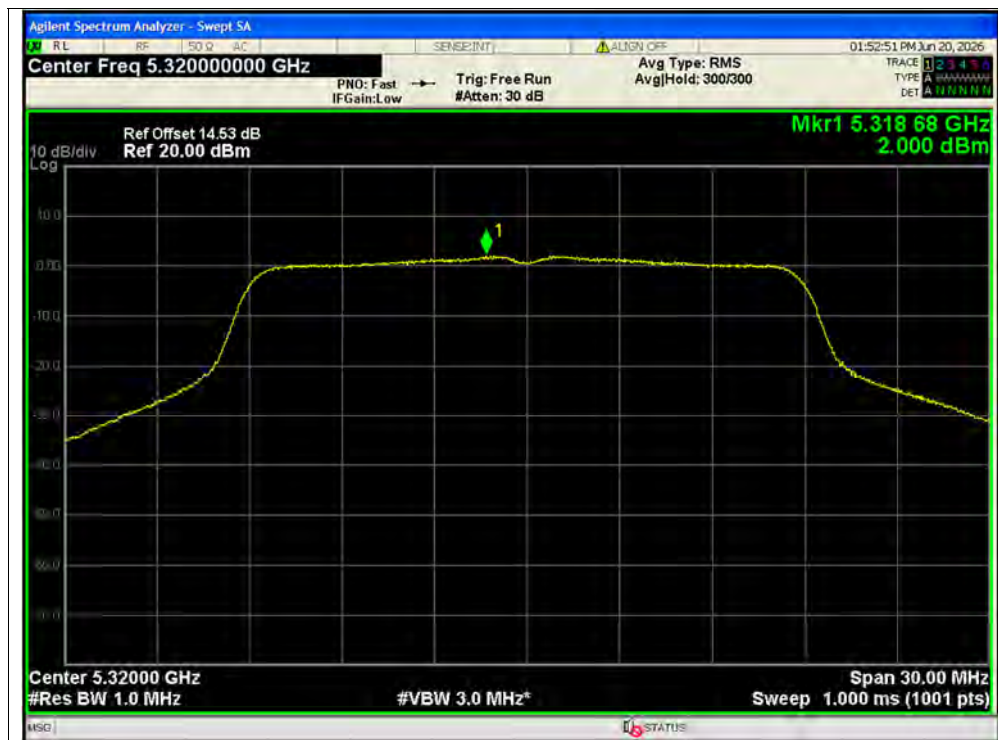
PSD NVNT ac20 5240MHz Ant1



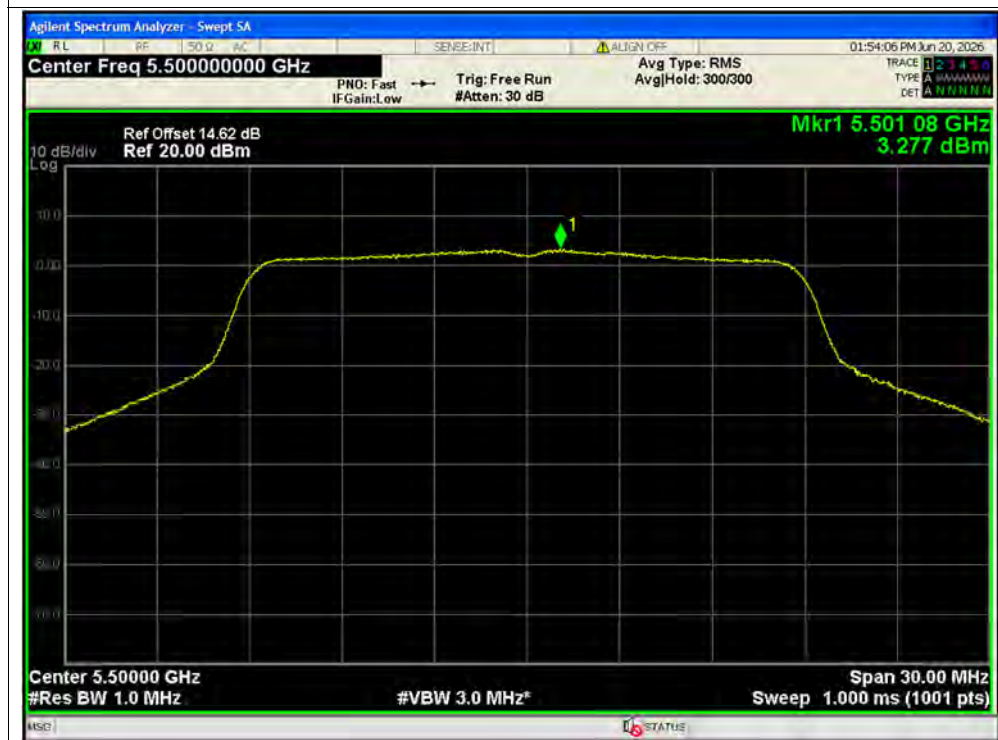
PSD NVNT ac20 5260MHz Ant1



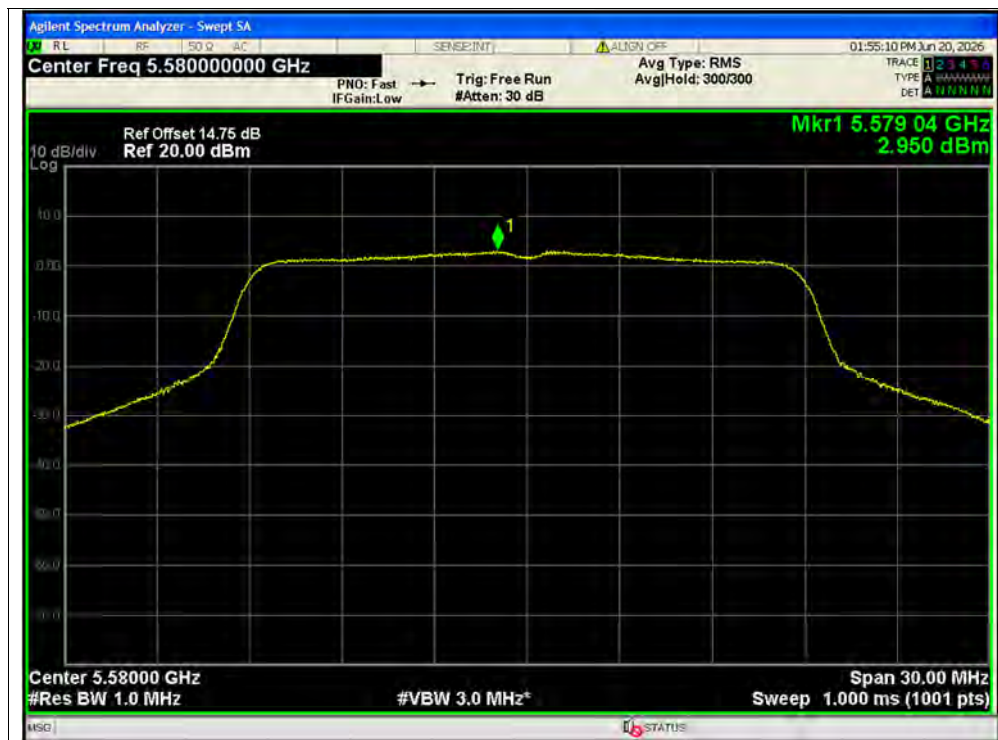
PSD NVNT ac20 5300MHz Ant1



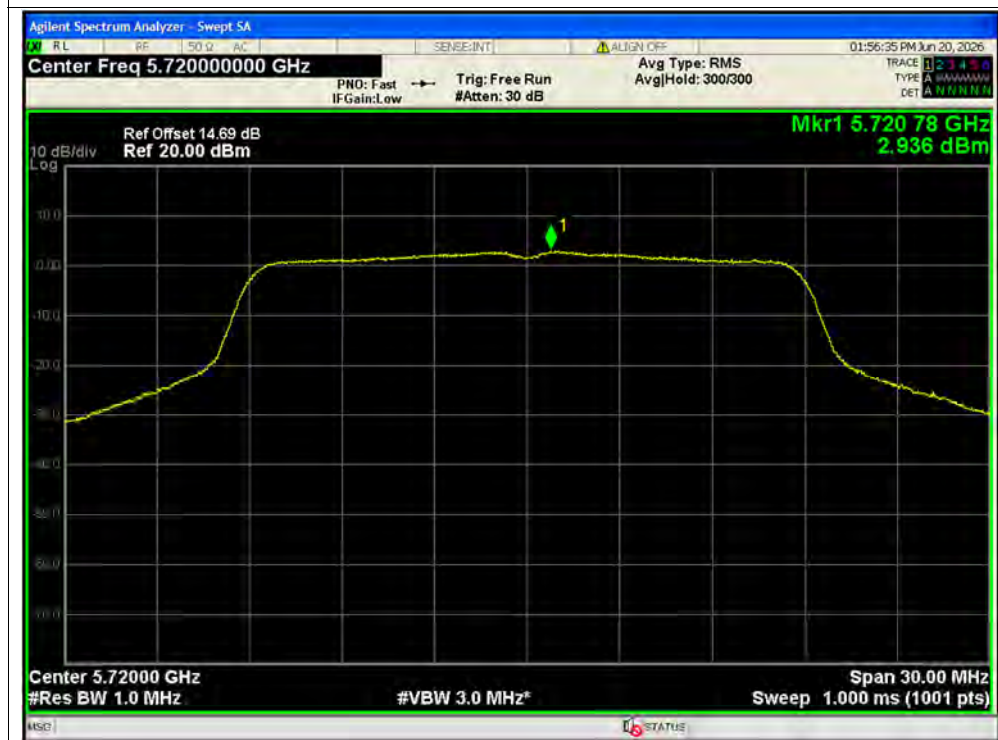
PSD NVNT ac20 5320MHz Ant1



PSD NVNT ac20 5500MHz Ant1



PSD NVNT ac20 5580MHz 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 5755MHz Ant1



PSD NVNT ac40 5795MHz 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 3.5V	CW	5180	Ant1	5179.984	-16000	-3.09	25	Pass
20C 3.7V	CW	5180	Ant1	5179.984	-16000	-3.09	25	Pass
20C 4.2V	CW	5180	Ant1	5179.984	-16000	-3.09	25	Pass
-20C 3.7V	CW	5180	Ant1	5179.984	-16000	-3.09	25	Pass
-10C 3.7V	CW	5180	Ant1	5179.984	-16000	-3.09	25	Pass
0C 3.7V	CW	5180	Ant1	5179.984	-16000	-3.09	25	Pass
10C 3.7V	CW	5180	Ant1	5179.984	-16000	-3.09	25	Pass
30C 3.7V	CW	5180	Ant1	5179.984	-16000	-3.09	25	Pass
40C 3.7V	CW	5180	Ant1	5179.983	-17000	-3.28	25	Pass
50C 3.7V	CW	5180	Ant1	5179.984	-16000	-3.09	25	Pass
60C 3.7V	CW	5180	Ant1	5179.984	-16000	-3.09	25	Pass
65C 3.7V	CW	5180	Ant1	5179.984	-16000	-3.09	25	Pass
20C 3.5V	CW	5260	Ant1	5259.985	-15000	-2.85	25	Pass
20C 3.7V	CW	5260	Ant1	5259.984	-16000	-3.04	25	Pass
20C 4.2V	CW	5260	Ant1	5259.985	-15000	-2.85	25	Pass
-20C 3.7V	CW	5260	Ant1	5259.984	-16000	-3.04	25	Pass
-10C 3.7V	CW	5260	Ant1	5259.984	-16000	-3.04	25	Pass
0C 3.7V	CW	5260	Ant1	5259.985	-15000	-2.85	25	Pass
10C 3.7V	CW	5260	Ant1	5259.985	-15000	-2.85	25	Pass
30C 3.7V	CW	5260	Ant1	5259.984	-16000	-3.04	25	Pass
40C 3.7V	CW	5260	Ant1	5259.985	-15000	-2.85	25	Pass
50C 3.7V	CW	5260	Ant1	5259.985	-15000	-2.85	25	Pass
60C 3.7V	CW	5260	Ant1	5259.984	-16000	-3.04	25	Pass
65C 3.7V	CW	5260	Ant1	5259.984	-16000	-3.04	25	Pass
20C 3.5V	CW	5500	Ant1	5499.984	-16000	-2.91	25	Pass
20C 3.7V	CW	5500	Ant1	5499.984	-16000	-2.91	25	Pass
20C 4.2V	CW	5500	Ant1	5499.984	-16000	-2.91	25	Pass
-20C 3.7V	CW	5500	Ant1	5499.984	-16000	-2.91	25	Pass
-10C 3.7V	CW	5500	Ant1	5499.984	-16000	-2.91	25	Pass
0C 3.7V	CW	5500	Ant1	5499.984	-16000	-2.91	25	Pass
10C 3.7V	CW	5500	Ant1	5499.984	-16000	-2.91	25	Pass
30C 3.7V	CW	5500	Ant1	5499.983	-17000	-3.09	25	Pass
40C 3.7V	CW	5500	Ant1	5499.984	-16000	-2.91	25	Pass
50C 3.7V	CW	5500	Ant1	5499.984	-16000	-2.91	25	Pass



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60C 3.7V	CW	5500	Ant1	5499.984	-16000	-2.91	25	Pass
65C 3.7V	CW	5500	Ant1	5499.984	-16000	-2.91	25	Pass
20C 3.5V	CW	5745	Ant1	5744.984	-16000	-2.79	25	Pass
20C 3.7V	CW	5745	Ant1	5744.984	-16000	-2.79	25	Pass
20C 4.2V	CW	5745	Ant1	5744.984	-16000	-2.79	25	Pass
-20C 3.7V	CW	5745	Ant1	5744.983	-17000	-2.96	25	Pass
-10C 3.7V	CW	5745	Ant1	5744.984	-16000	-2.79	25	Pass
0C 3.7V	CW	5745	Ant1	5744.983	-17000	-2.96	25	Pass
10C 3.7V	CW	5745	Ant1	5744.983	-17000	-2.96	25	Pass
30C 3.7V	CW	5745	Ant1	5744.983	-17000	-2.96	25	Pass
40C 3.7V	CW	5745	Ant1	5744.984	-16000	-2.79	25	Pass
50C 3.7V	CW	5745	Ant1	5744.983	-17000	-2.96	25	Pass
60C 3.7V	CW	5745	Ant1	5744.984	-16000	-2.79	25	Pass
65C 3.7V	CW	5745	Ant1	5744.984	-16000	-2.79	25	Pass



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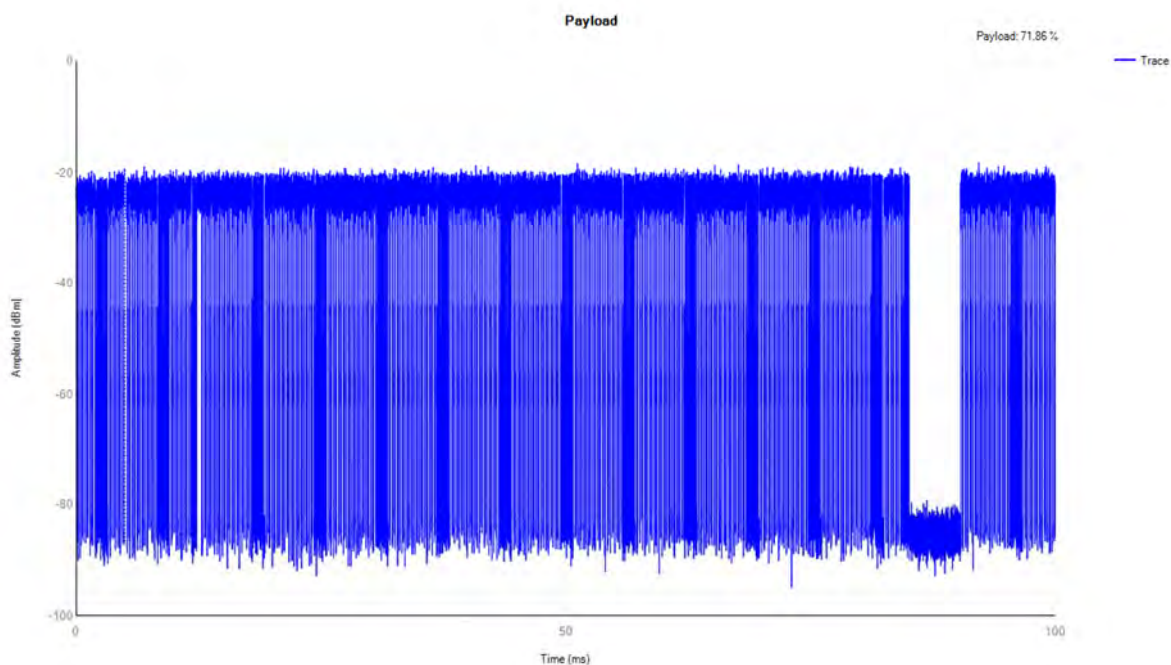
A.6. Dynamic Frequency Selection

Payload

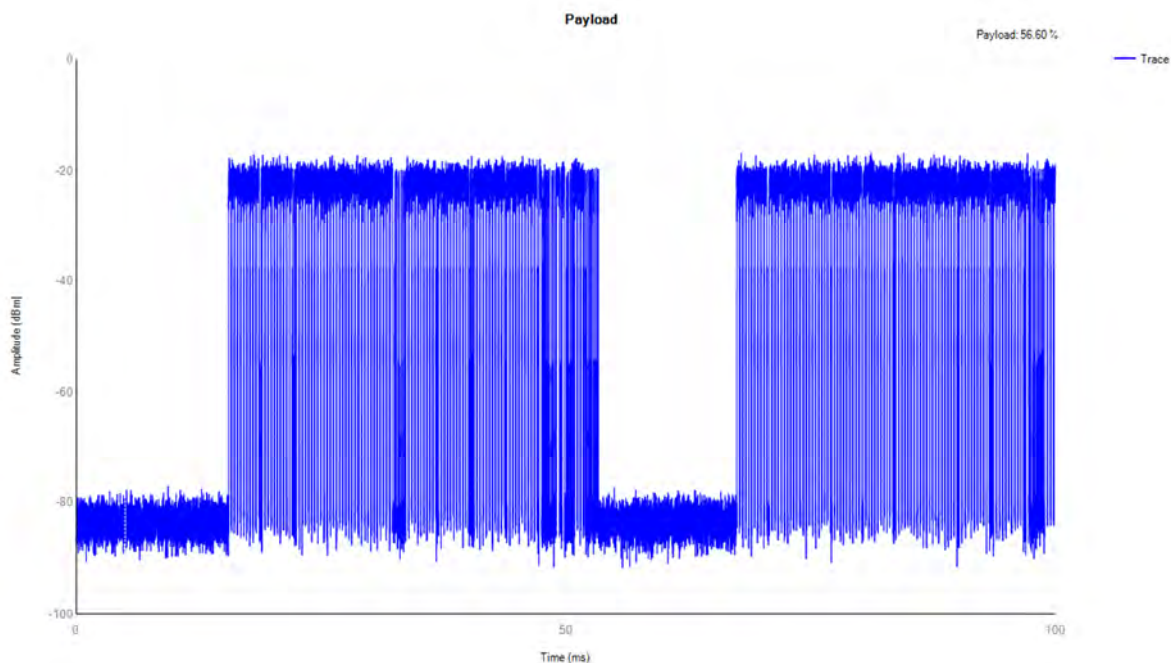
Mode	Frequency (MHz)	Result	Verdict
ac20	5320	71.86	Pass
ac20	5500	56.6	Pass
ac80	5290	33.97	Pass
ac80	5530	44.8	Pass

Test Graphs

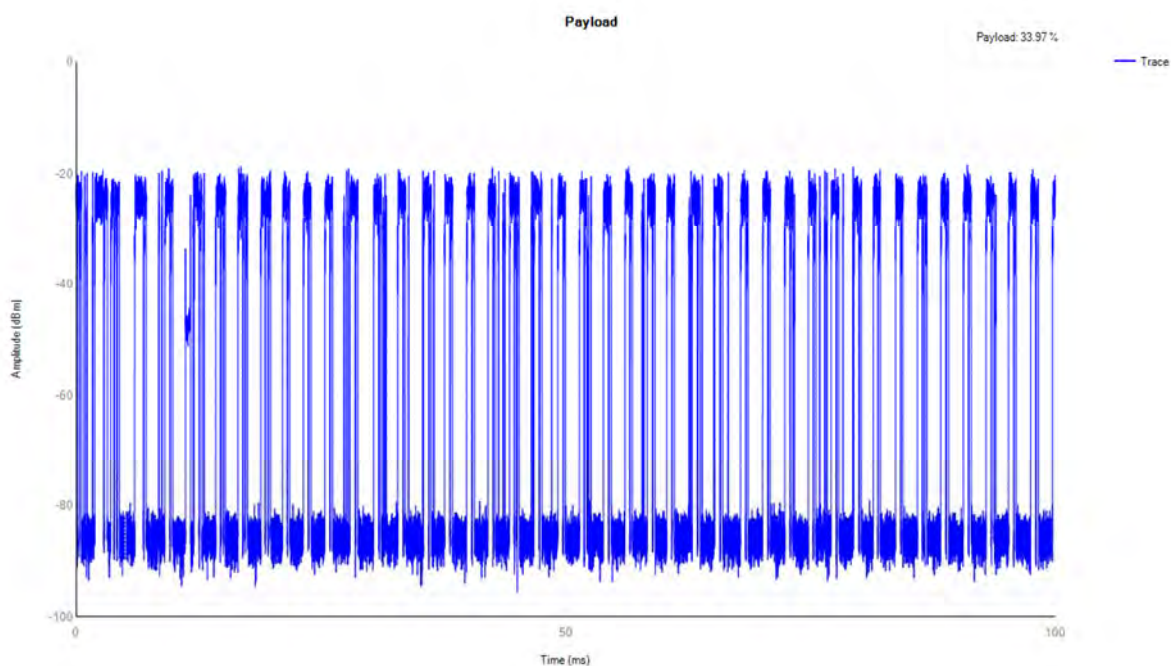
ac20 5320MHz Payload SISO



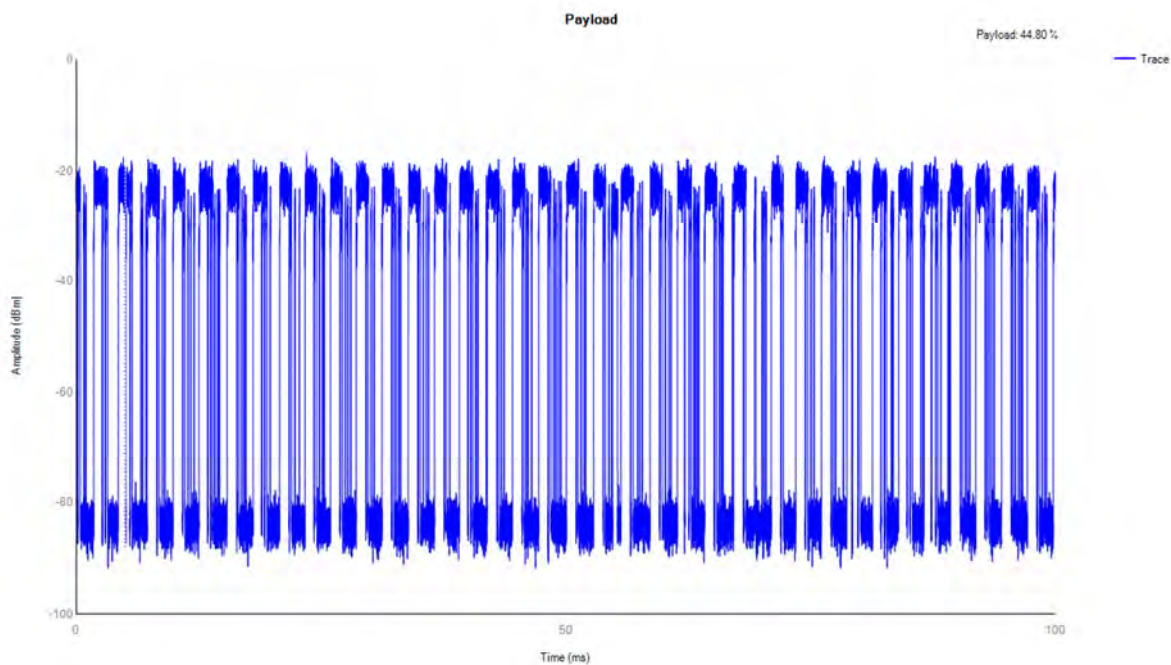
ac20 5500MHz Payload SISO



ac80 5290MHz Payload SISO



ac80 5530MHz Payload SISO





Detection Thresholds

Mode	Frequency (MHz)	Type	Result	Verdict
ac20	5320	DFS_FCC_T0	See test Graph	Pass
ac20	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

Spectrum analyzer settings:

Span: Zero

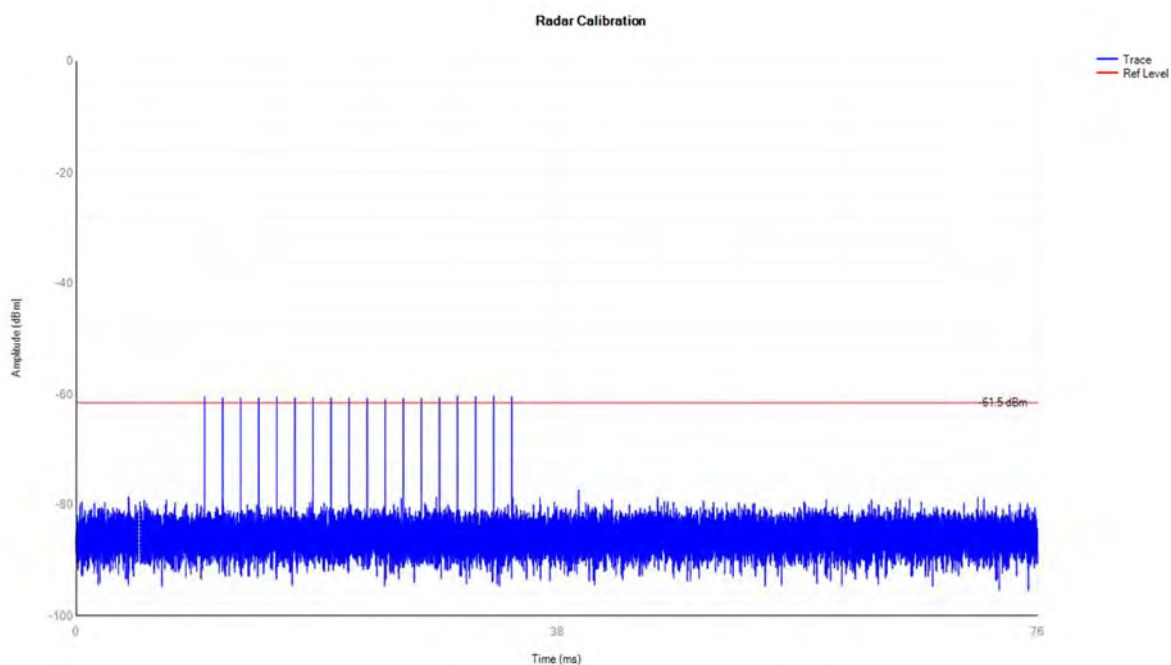
Detector Type: Peak

RBW: 3MHz

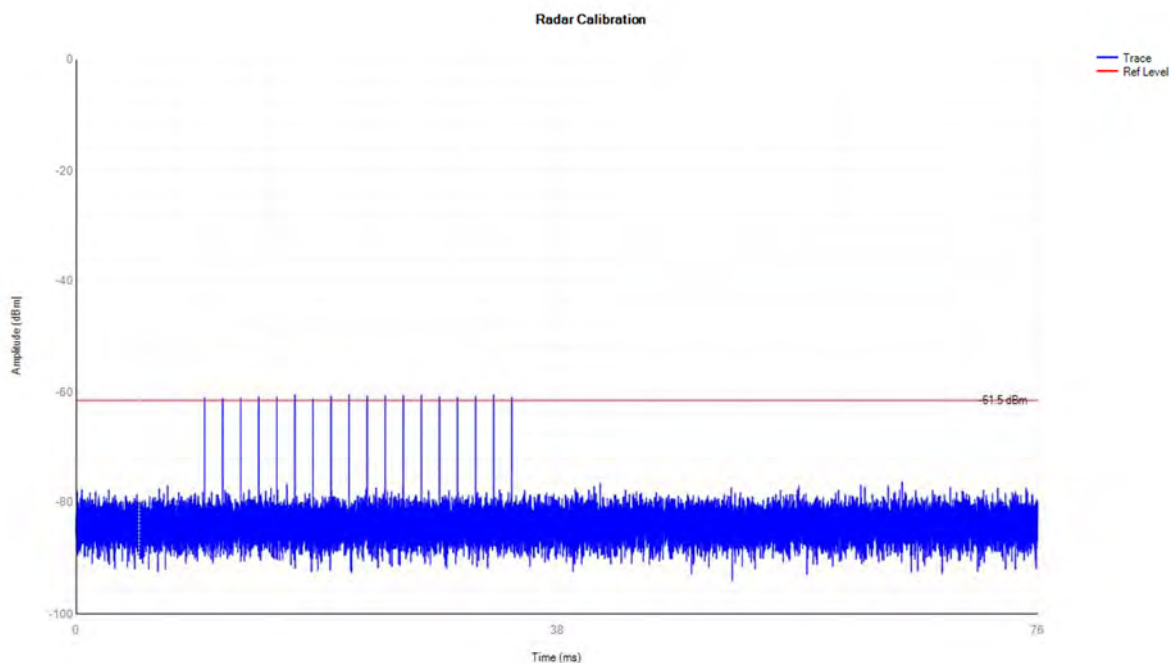
VBW: 3MHz

Test Graphs

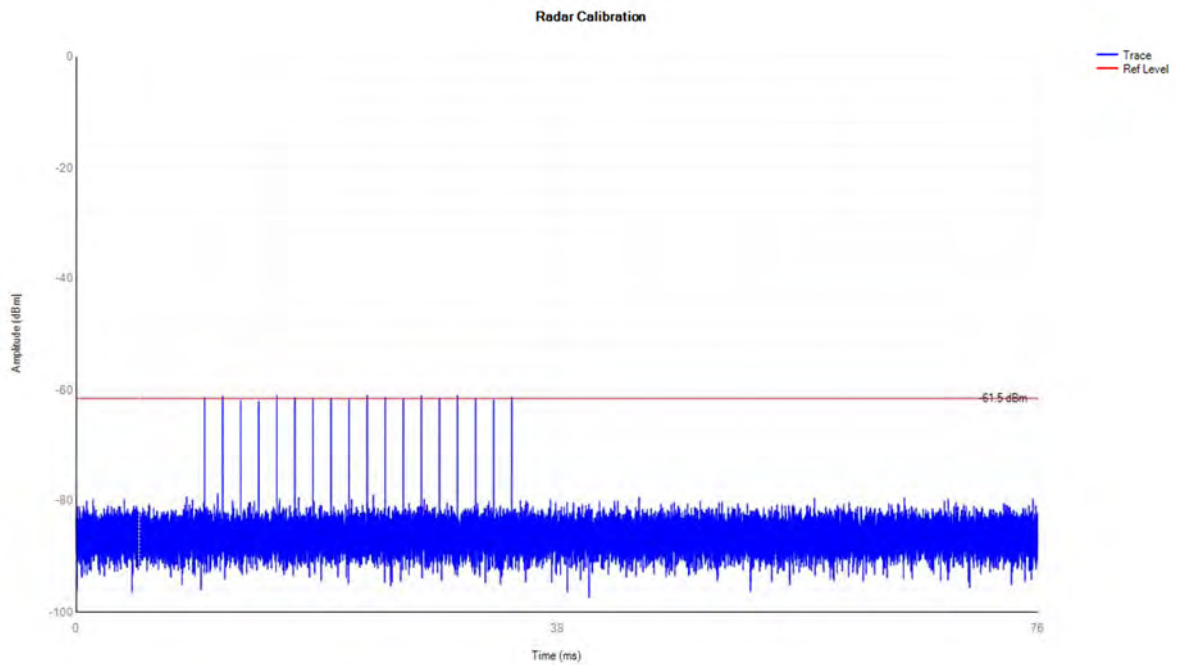
5320MHz DFS_FCC_T0 SISO



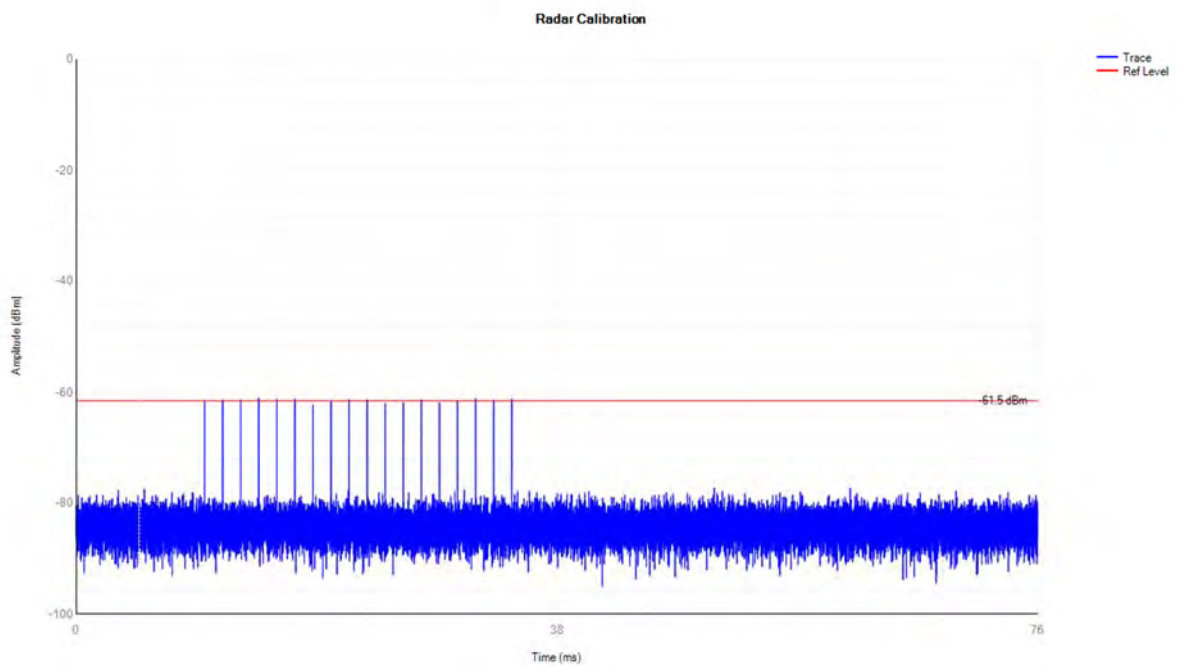
5500MHz DFS_FCC_T0 SISO



5290MHz DFS_FCC_T0 SISO



5530MHz DFS_FCC_T0 SISO





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
ac20	5320	0.853	10	0.05	0.26	0.04	0.06	Pass
ac20	5500	0.896	10	0.013	0.26	0.01	0.06	Pass
ac80	5290	0.834	10	0.013	0.26	0.011	0.06	Pass
ac80	5530	0.916	10	0.016	0.26	0.013	0.06	Pass

Spectrum analyzer settings:

Span: Zero

Detector type: Peak

RBW: 3MHz

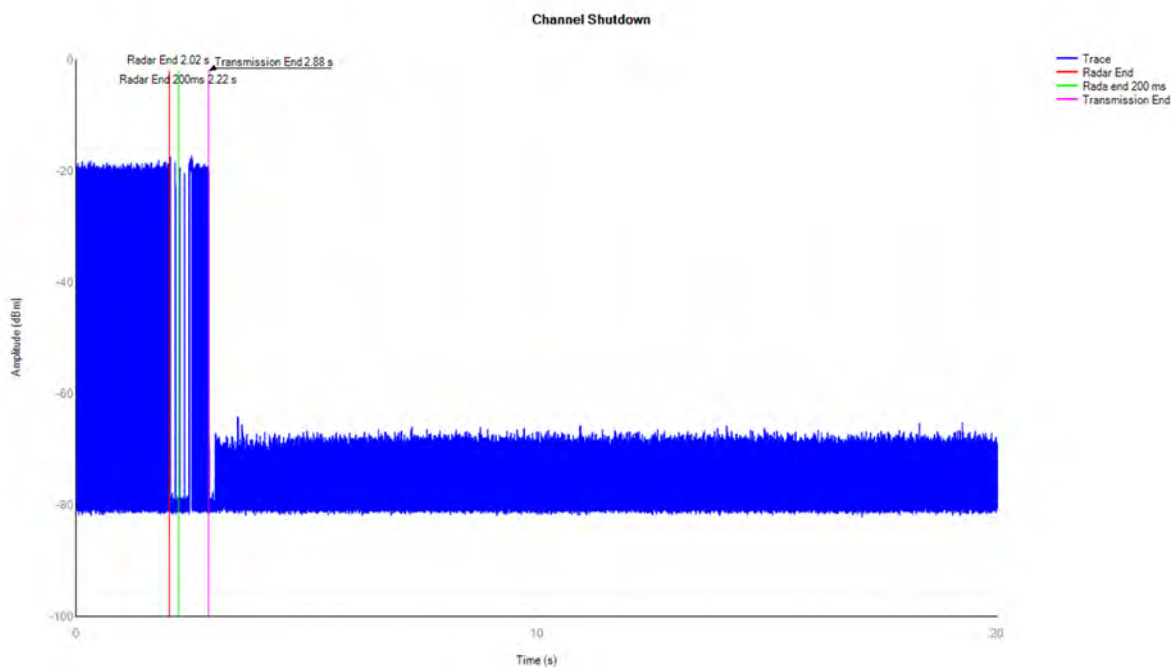
VBW: 3MHz

Sweep time: 20s

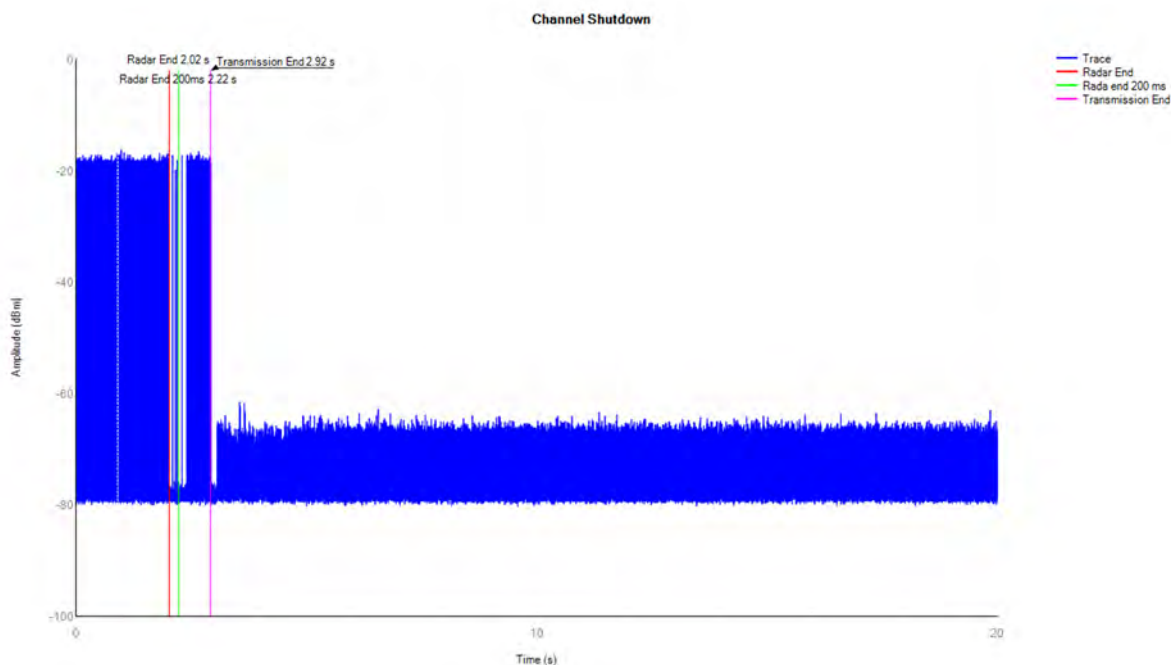


Test Graphs

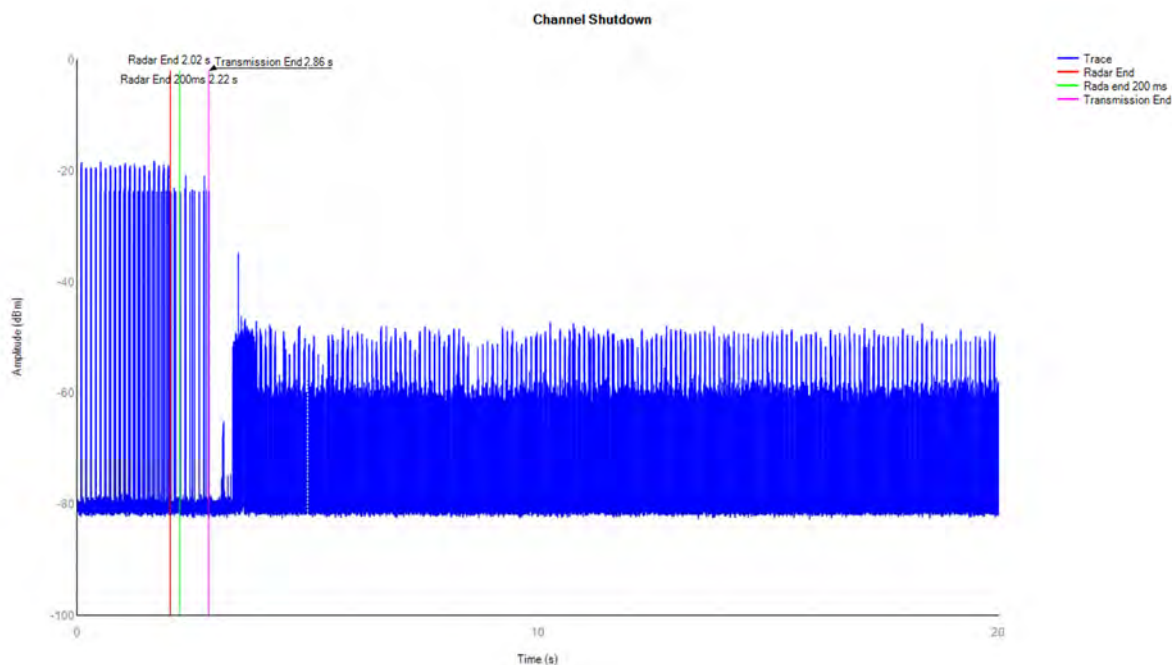
ac20 5320MHz Shutdown SISO



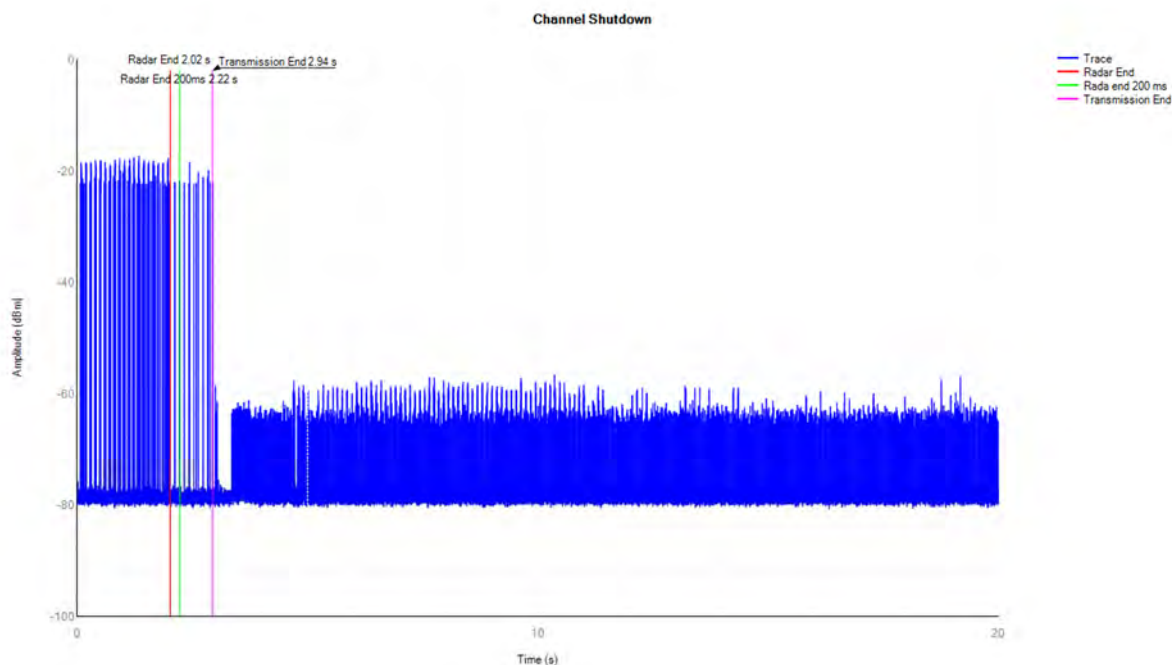
ac20 5500MHz Shutdown SISO



ac80 5290MHz Shutdown SISO



ac80 5530MHz Shutdown SISO



Note: The signal above the noise floor after the radar signal ends is the signal which leaked from other channels that have been moved following the Master device.



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Non-Occupancy Period

Mode	Frequency (MHz)	Result	Verdict
ac20	5320	See test Graph	Pass
ac20	5500	See test Graph	Pass

Spectrum analyzer settings:

Span: Zero

Detector type: Peak

RBW: 3MHz

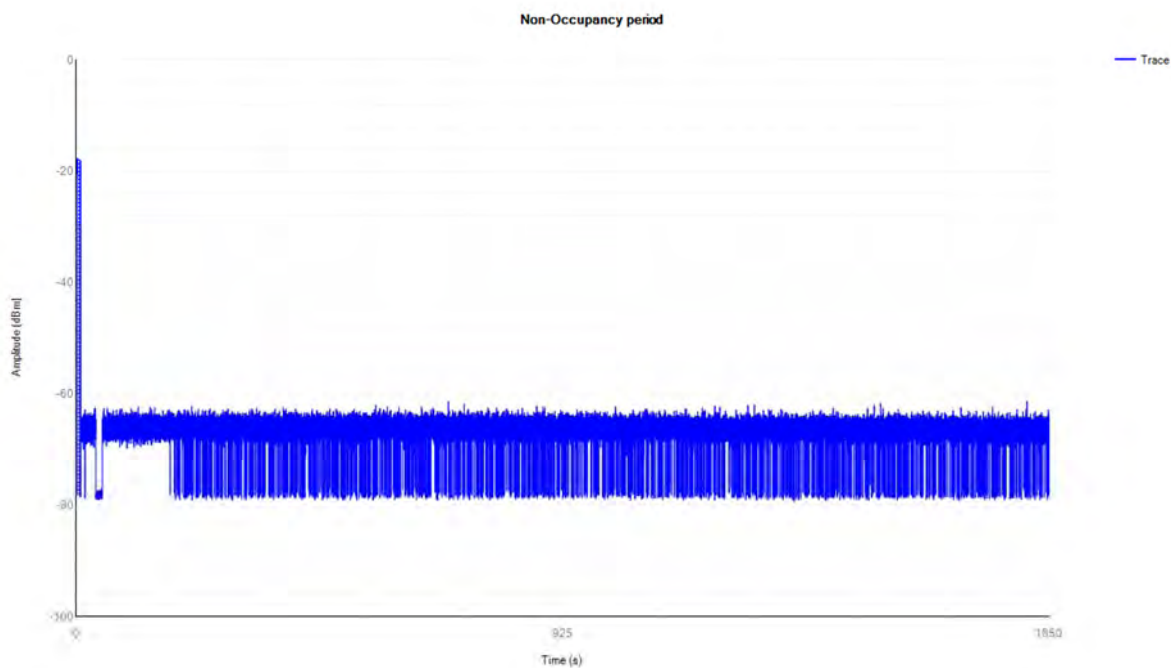
VBW: 3MHz

Sweep time: 1850s

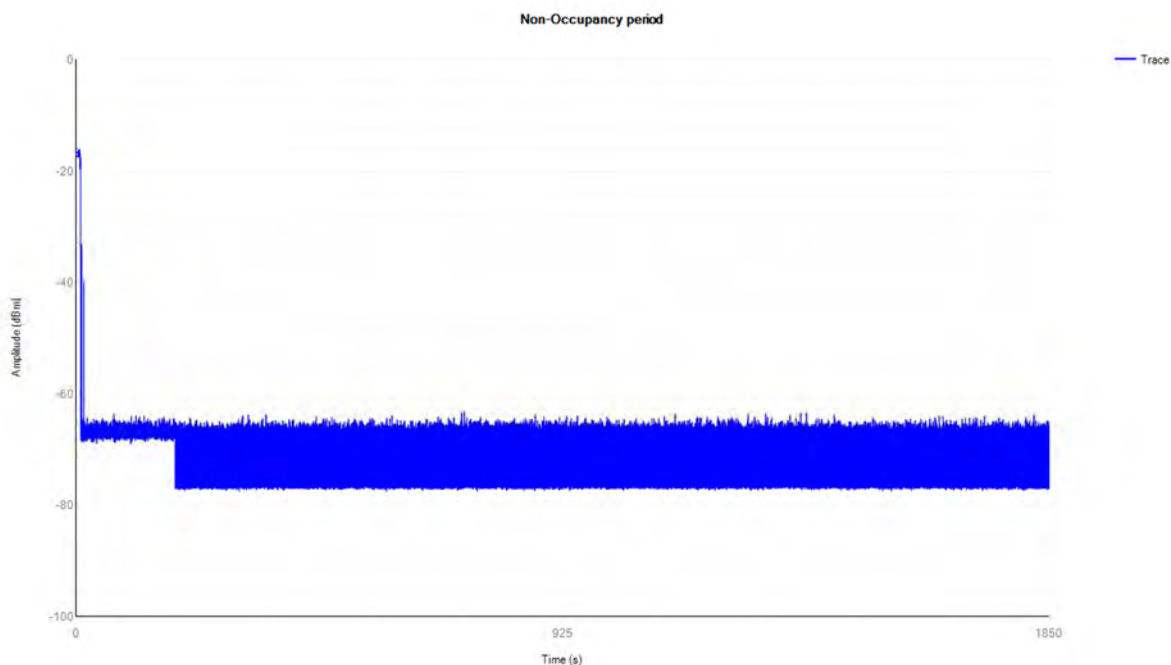


Test Graphs

ac20 5320MHz Non-Occupancy SISO



ac20 5500MHz Non-Occupancy SISO





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+Notebook+Notebok adapter+USB cable+WIFI TX

Test voltage: AC 120V/60Hz

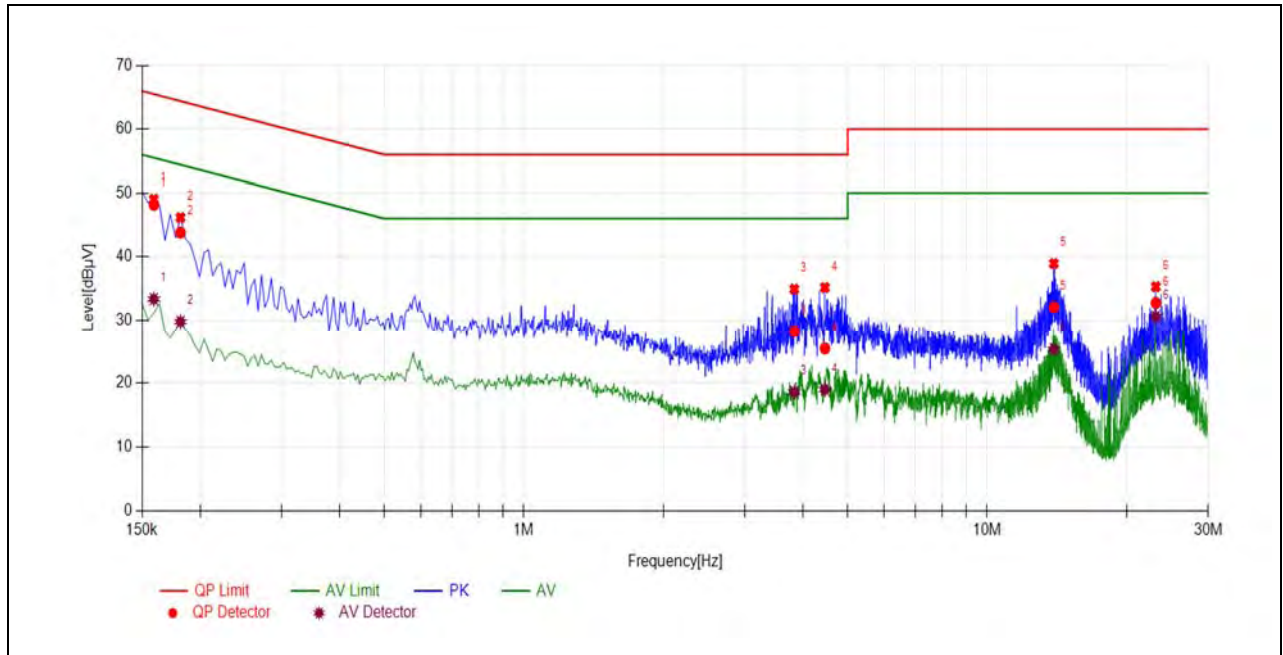
The measurement results are obtained as below:

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

U_R : Receiver Reading

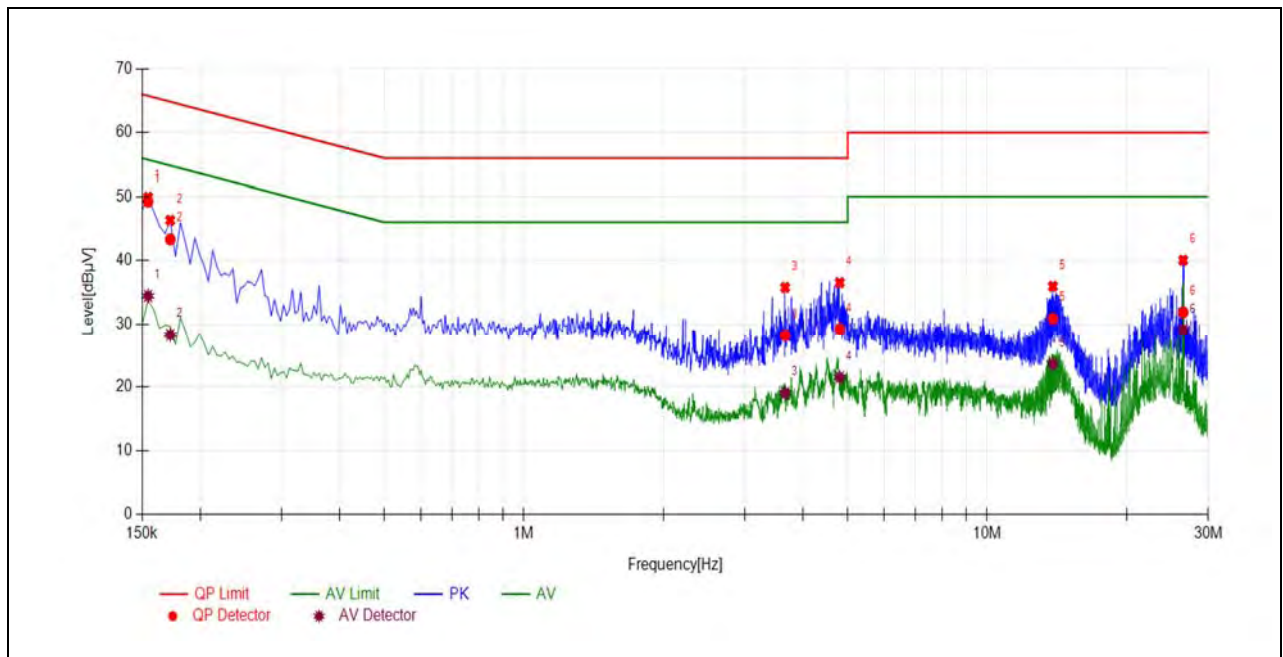
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1590	48.19	33.34	65.52	55.52	Line	PASS
2	0.1815	43.82	29.76	64.42	54.42		PASS
3	3.8354	28.20	18.57	56.00	46.00		PASS
4	4.4651	25.45	18.96	56.00	46.00		PASS
5	13.9300	32.05	25.31	60.00	50.00		PASS
6	23.1281	32.71	30.59	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	0.1545	49.25	34.45	65.76	55.76	Neutral	PASS
2	0.1725	43.34	28.26	64.84	54.84		PASS
3	3.6647	28.18	19.03	56.00	46.00		PASS
4	4.8076	29.21	21.51	56.00	46.00		PASS
5	13.8664	30.87	23.59	60.00	50.00		PASS
6	26.4869	31.87	29.05	60.00	50.00		PASS

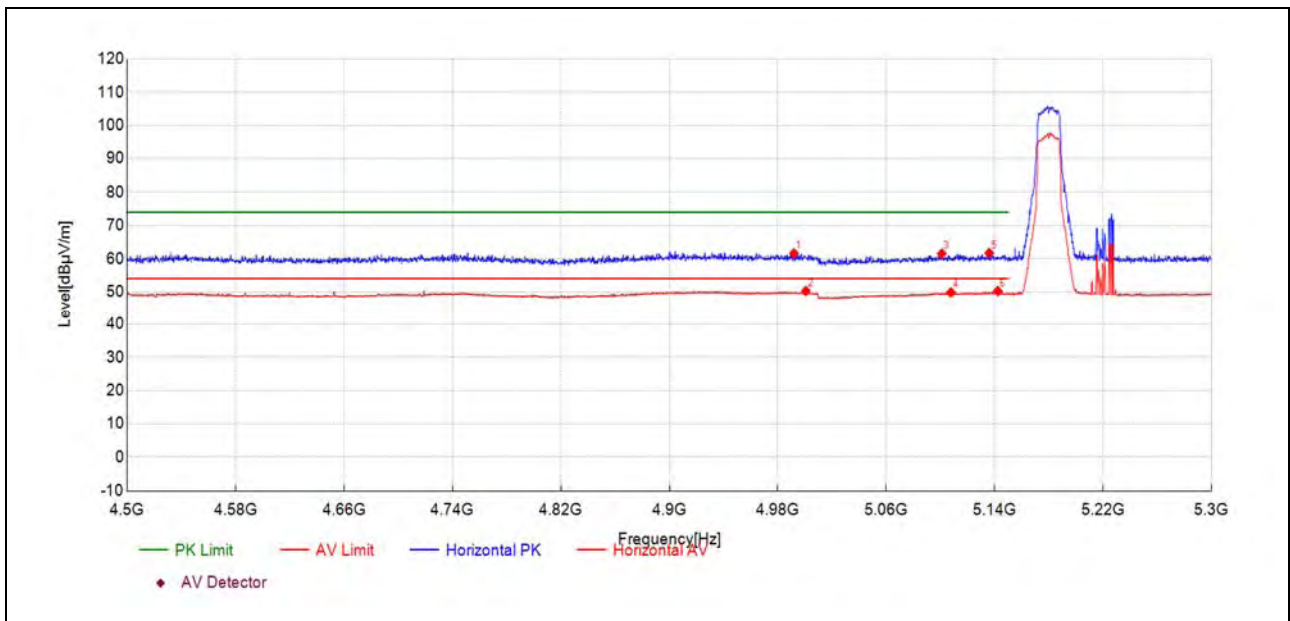
A.8. Restricted Frequency Bands

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

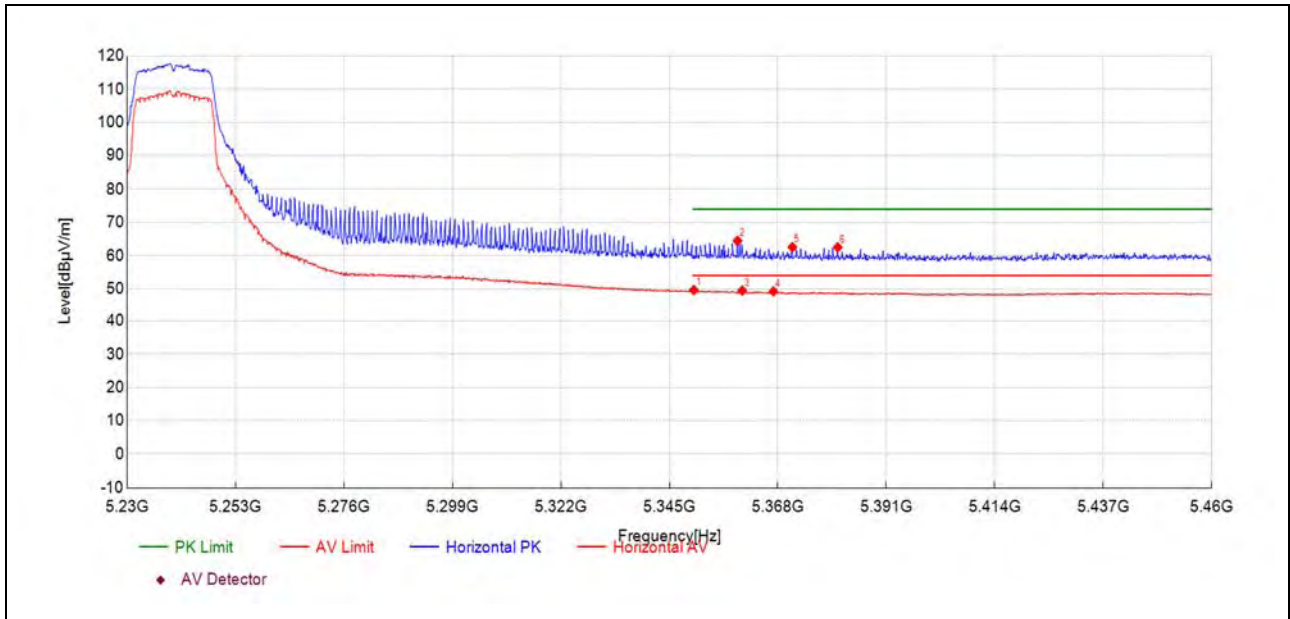
802.11a Mode

Plot for Channel 36



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
4991.90	41.7	61.60	19.870	74.00	12.40	165	318	PK	PASS
5000.66	30.4	50.28	19.880	54.00	3.72	165	307	AV	PASS
5100.94	41.0	61.51	20.520	74.00	12.49	165	328	PK	PASS
5107.69	29.3	49.81	20.480	54.00	4.19	165	232	AV	PASS
5135.95	41.3	61.70	20.380	74.00	12.30	165	169	PK	PASS
5142.20	29.8	50.20	20.360	54.00	3.80	165	20	AV	PASS

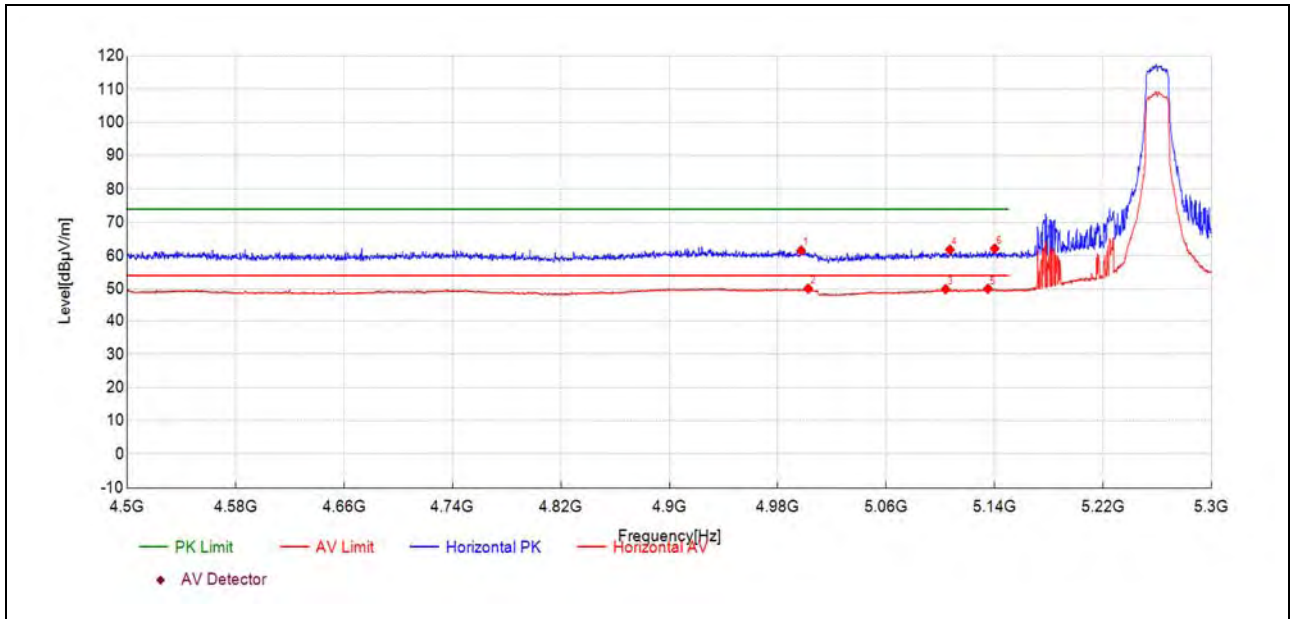
Plot for Channel 48



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5350.19	29.7	49.60	19.940	54.00	4.40	165	250	AV	PASS
5359.45	44.6	64.47	19.920	74.00	9.53	165	259	PK	PASS
5360.45	29.5	49.44	19.920	54.00	4.56	165	250	AV	PASS
5367.07	29.3	49.21	19.910	54.00	4.79	165	259	AV	PASS
5371.08	42.7	62.57	19.900	74.00	11.43	165	239	PK	PASS
5380.71	42.6	62.51	19.870	74.00	11.49	165	239	PK	PASS

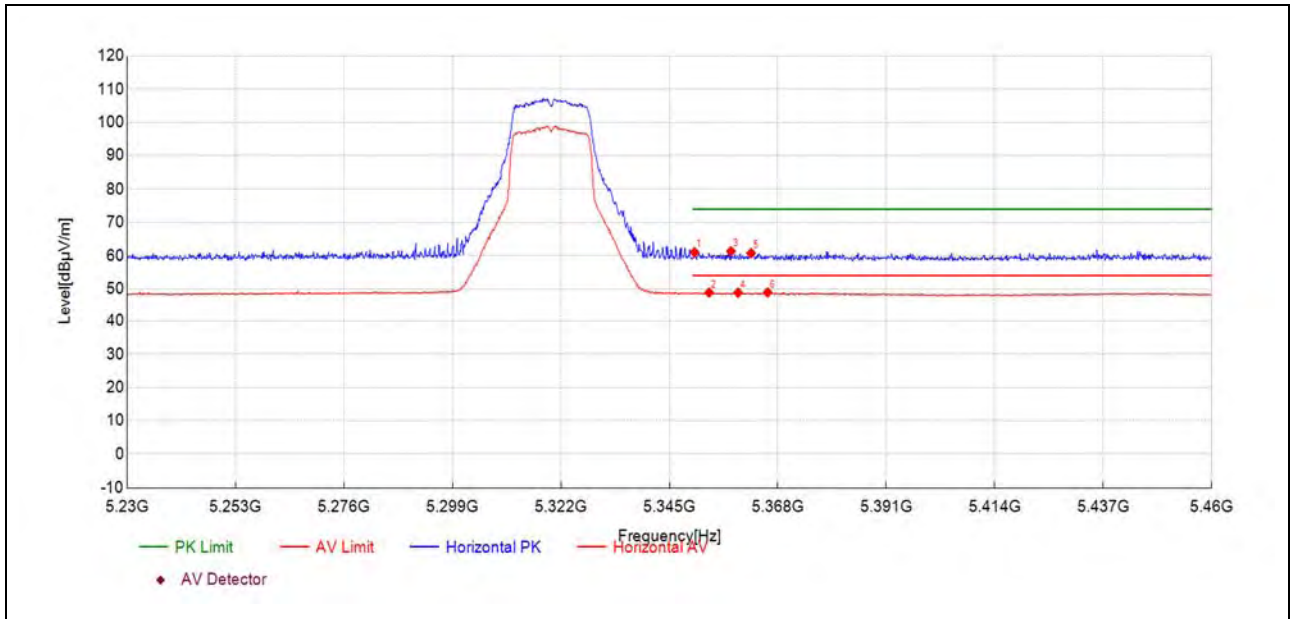


Plot for Channel 52



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
4997.16	41.7	61.55	19.870	74.00	12.45	165	309	PK	PASS
5002.41	30.2	50.06	19.900	54.00	3.94	165	147	AV	PASS
5103.69	29.4	49.89	20.500	54.00	4.11	165	1	AV	PASS
5106.94	41.3	61.80	20.500	74.00	12.20	165	319	PK	PASS
5134.95	29.6	50.02	20.380	54.00	3.98	165	255	AV	PASS
5139.95	41.8	62.15	20.360	74.00	11.85	165	255	PK	PASS

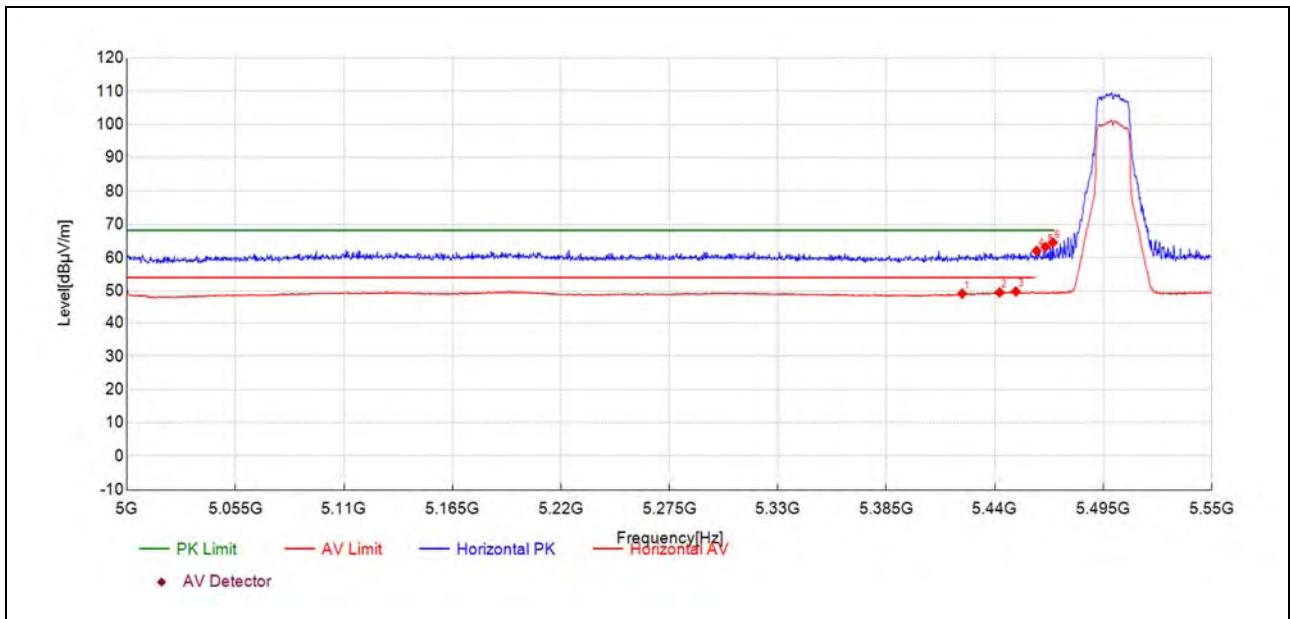
Plot for Channel 64



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5350.32	41.1	61.01	19.940	74.00	12.99	165	258	PK	PASS
5353.44	28.9	48.85	19.930	54.00	5.15	165	239	AV	PASS
5358.07	41.4	61.33	19.920	74.00	12.67	165	258	PK	PASS
5359.57	28.9	48.80	19.920	54.00	5.20	165	270	AV	PASS
5362.32	40.8	60.75	19.920	74.00	13.25	165	220	PK	PASS
5365.82	29.0	48.90	19.910	54.00	5.10	165	249	AV	PASS

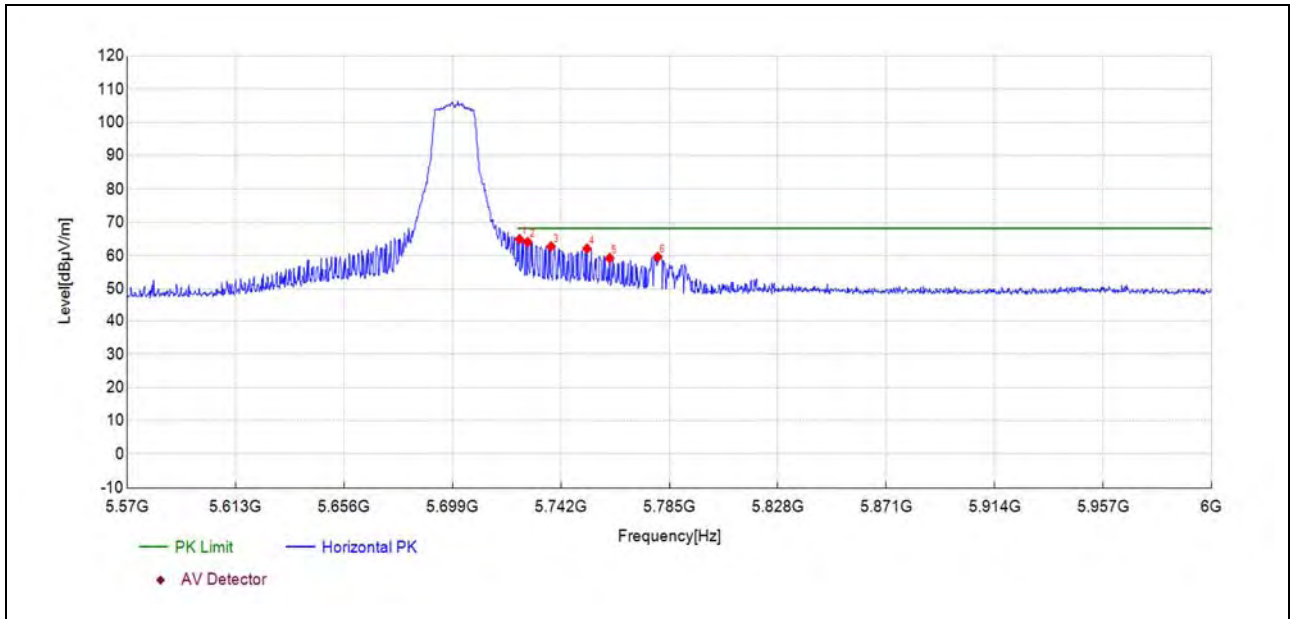


Plot for Channel 100



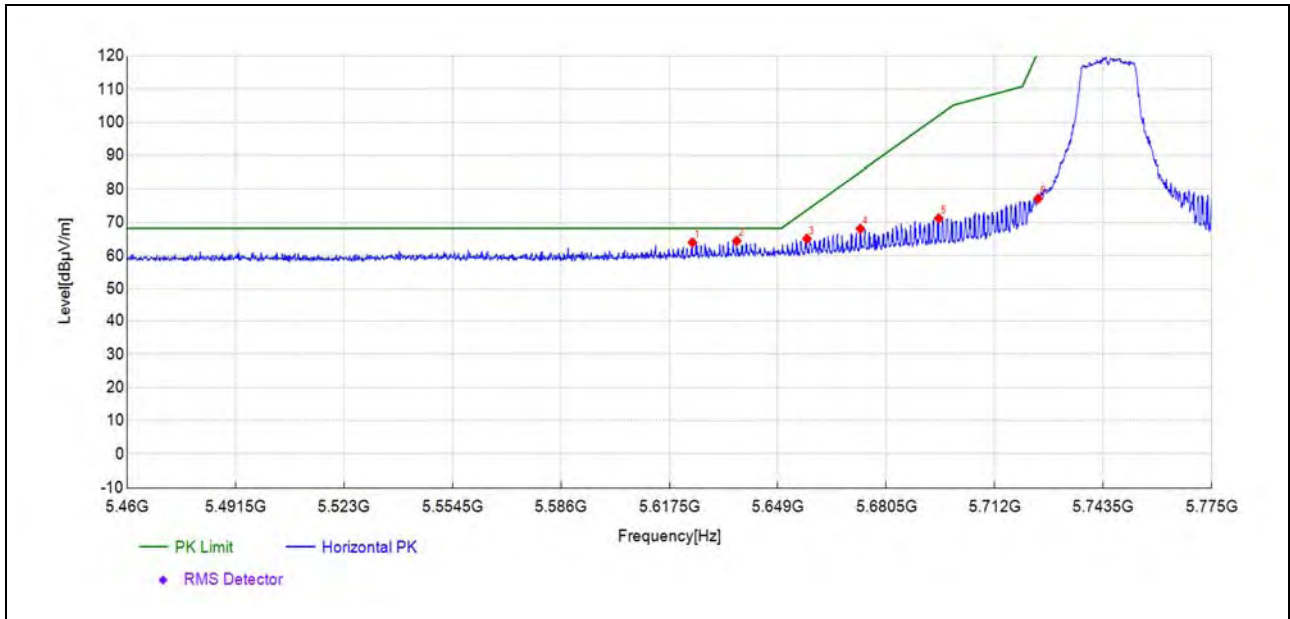
Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5423.44	29.0	49.14	20.130	54.00	4.86	165	248	AV	PASS
5442.45	29.1	49.50	20.370	54.00	4.50	165	279	AV	PASS
5450.70	29.3	49.78	20.470	54.00	4.22	165	268	AV	PASS
5461.21	41.7	62.06	20.410	68.23	6.17	165	258	PK	PASS
5465.71	42.8	63.23	20.390	68.23	5.00	165	258	PK	PASS
5469.46	44.2	64.58	20.370	68.23	3.65	165	238	PK	PASS

Plot for Channel 140



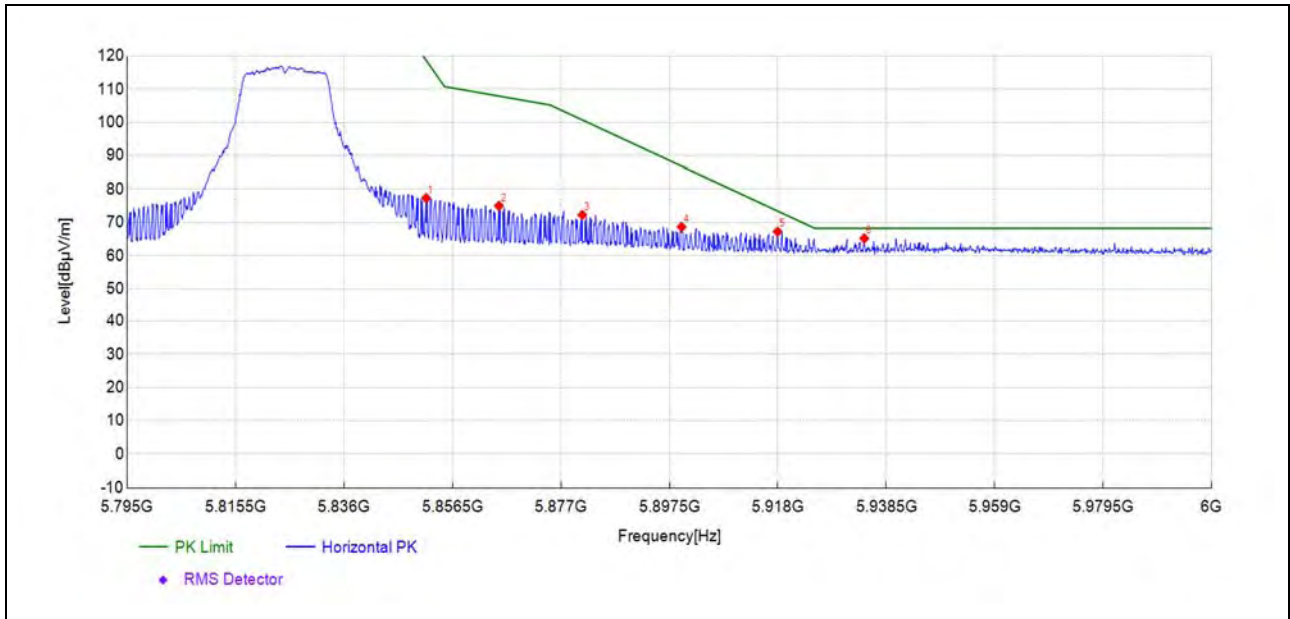
Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5725.59	55.7	64.95	9.270	68.23	3.28	165	177	PK	PASS
5728.84	54.8	64.11	9.310	68.23	4.12	165	251	PK	PASS
5738.10	53.3	62.78	9.460	68.23	5.45	165	232	PK	PASS
5752.36	52.5	62.11	9.640	68.23	6.12	165	242	PK	PASS
5761.36	49.6	59.25	9.650	68.23	8.98	165	251	PK	PASS
5780.37	49.9	59.61	9.680	68.23	8.62	165	278	PK	PASS

Plot for Channel 149



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5624.19	43.4	63.95	20.550	68.23	4.28	165	257	PK	PASS
5637.07	43.7	64.44	20.780	68.23	3.79	165	190	PK	PASS
5657.45	44.1	65.10	20.990	73.75	8.65	165	267	PK	PASS
5672.96	47.1	68.09	20.950	85.22	17.13	165	238	PK	PASS
5695.72	50.3	71.23	20.900	102.06	30.83	165	248	PK	PASS
5724.61	56.0	77.22	21.250	121.33	44.11	165	190	PK	PASS

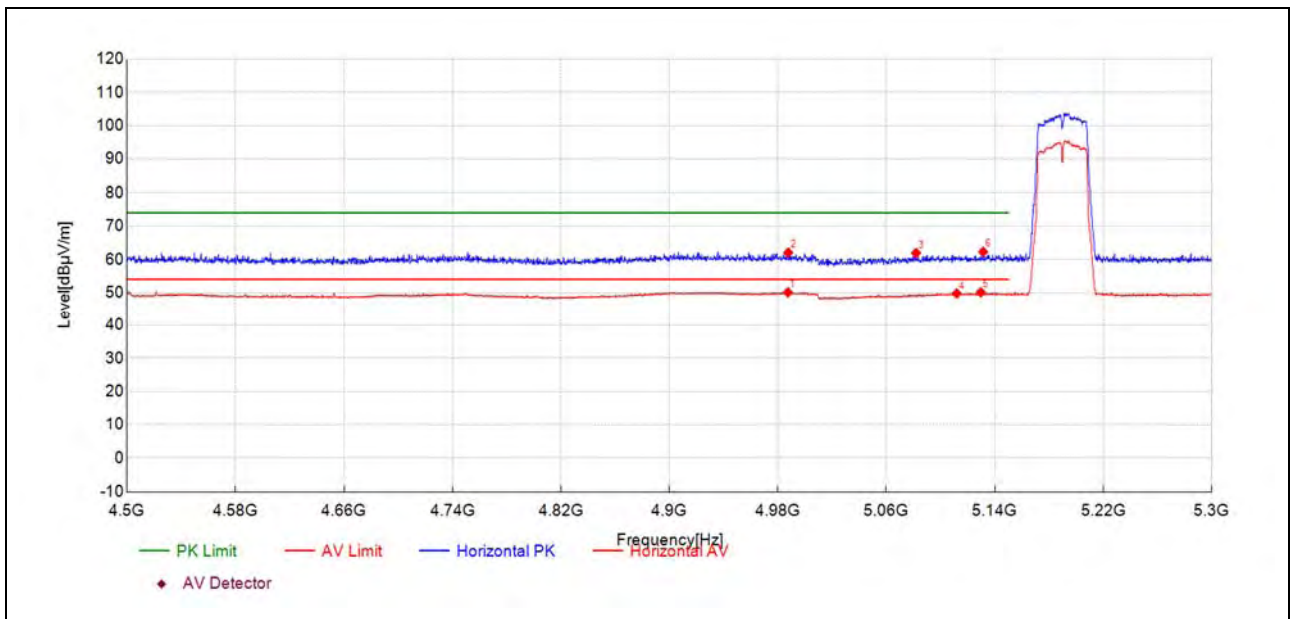
Plot for Channel 165



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5851.53	54.9	77.36	22.440	118.73	41.37	165	175	PK	PASS
5865.29	52.8	74.99	22.240	107.95	32.96	165	175	PK	PASS
5881.05	50.3	72.27	22.010	100.75	28.48	165	268	PK	PASS
5899.81	46.9	68.66	21.720	86.87	18.21	165	175	PK	PASS
5917.95	45.4	67.24	21.870	73.45	6.21	165	175	PK	PASS
5934.33	43.2	65.21	22.000	68.23	3.02	165	184	PK	PASS

**802.11n (HT40) Mode**

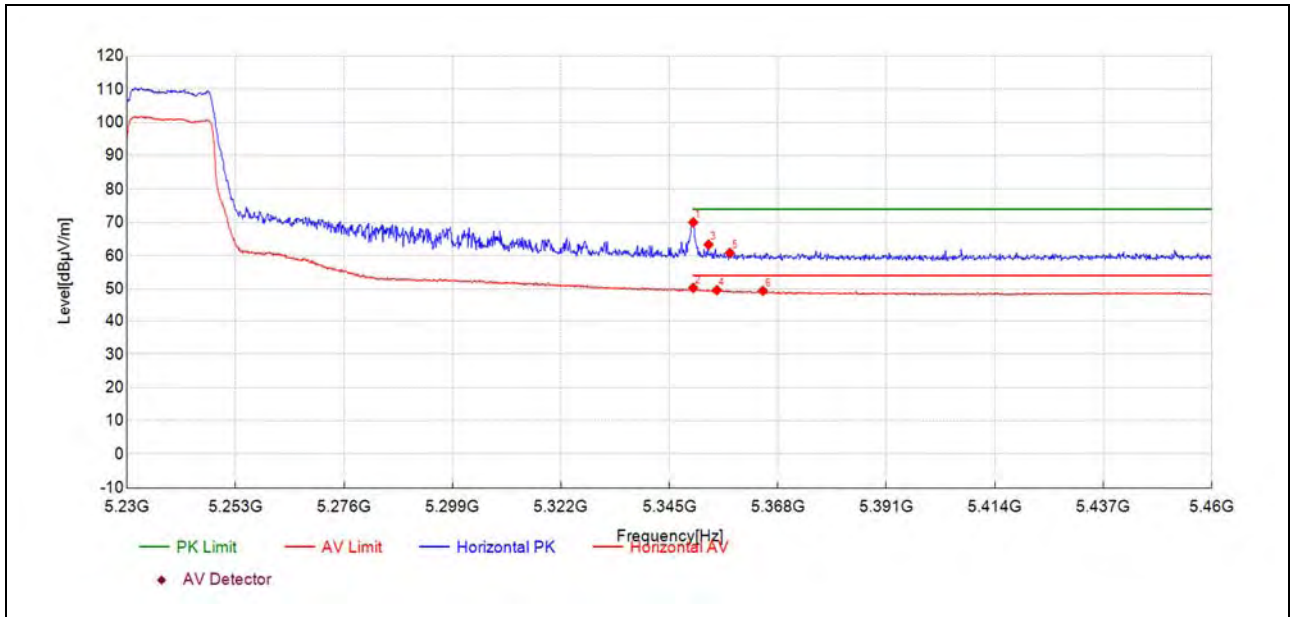
Plot for Channel 38



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
4987.40	30.2	50.10	19.860	54.00	3.90	165	64	AV	PASS
4987.65	42.2	62.03	19.870	74.00	11.97	165	234	PK	PASS
5081.93	41.5	61.92	20.410	74.00	12.08	165	224	PK	PASS
5111.94	29.3	49.76	20.480	54.00	4.24	165	64	AV	PASS
5129.70	29.7	50.08	20.400	54.00	3.92	165	245	AV	PASS
5131.45	41.9	62.29	20.400	74.00	11.71	165	347	PK	PASS



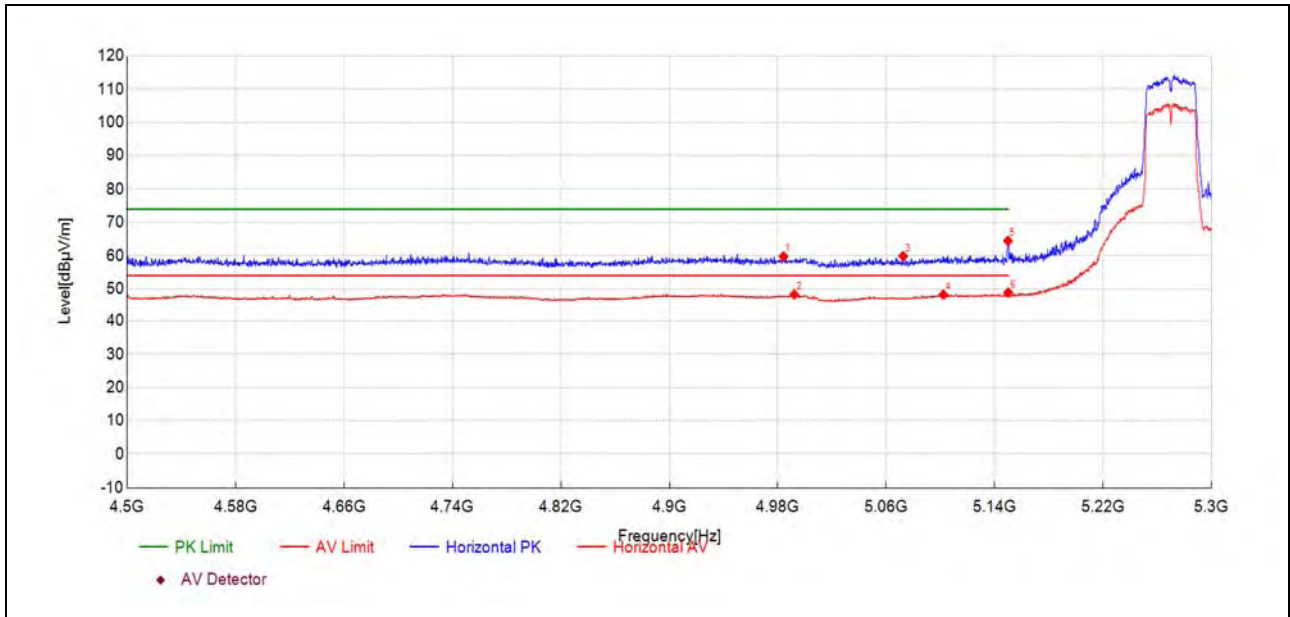
Plot for Channel 46



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5350.07	50.1	70.04	19.940	74.00	3.96	165	240	PK	PASS
5350.07	30.3	50.25	19.940	54.00	3.75	165	240	AV	PASS
5353.32	43.4	63.32	19.930	74.00	10.68	165	231	PK	PASS
5355.07	29.7	49.58	19.930	54.00	4.42	165	250	AV	PASS
5357.82	40.9	60.84	19.920	74.00	13.16	165	231	PK	PASS
5364.82	29.5	49.39	19.910	54.00	4.61	165	271	AV	PASS

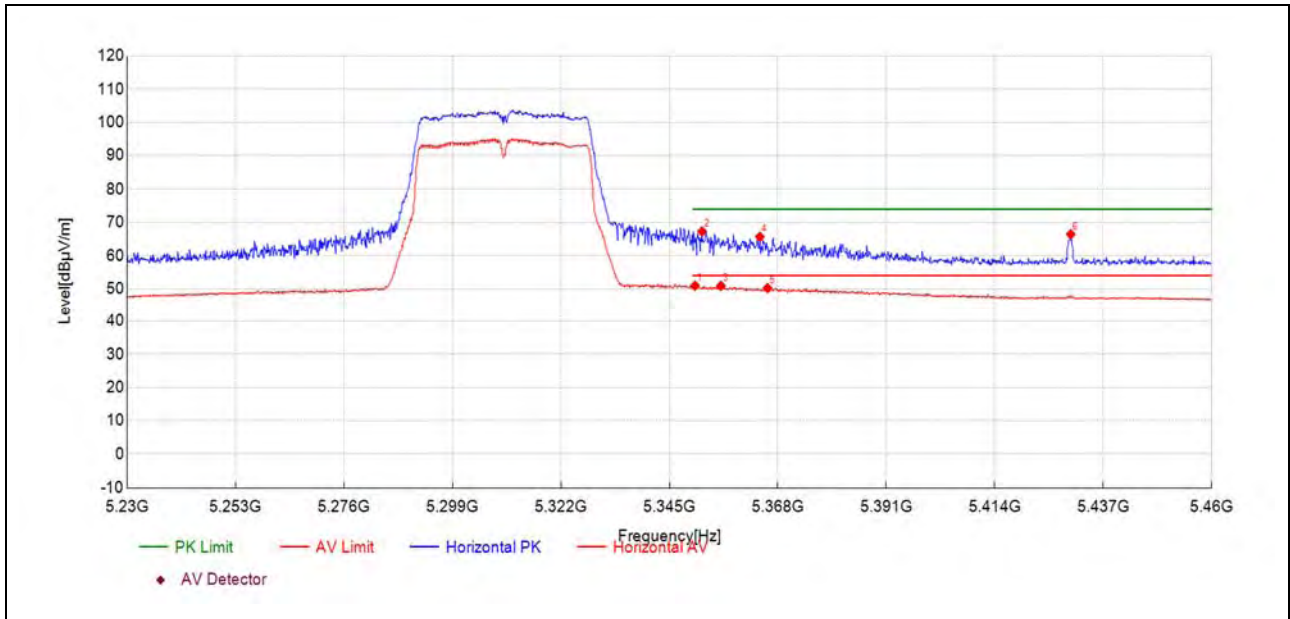


Plot for Channel 54



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
4984.15	39.9	59.75	19.860	74.00	14.25	165	8	PK	PASS
4992.15	28.4	48.28	19.870	54.00	5.72	165	264	AV	PASS
5072.43	39.5	59.83	20.340	74.00	14.17	165	180	PK	PASS
5102.19	27.7	48.23	20.520	54.00	5.77	165	329	AV	PASS
5149.70	44.2	64.47	20.320	74.00	9.53	165	169	PK	PASS
5149.95	28.5	48.84	20.320	54.00	5.16	165	201	AV	PASS

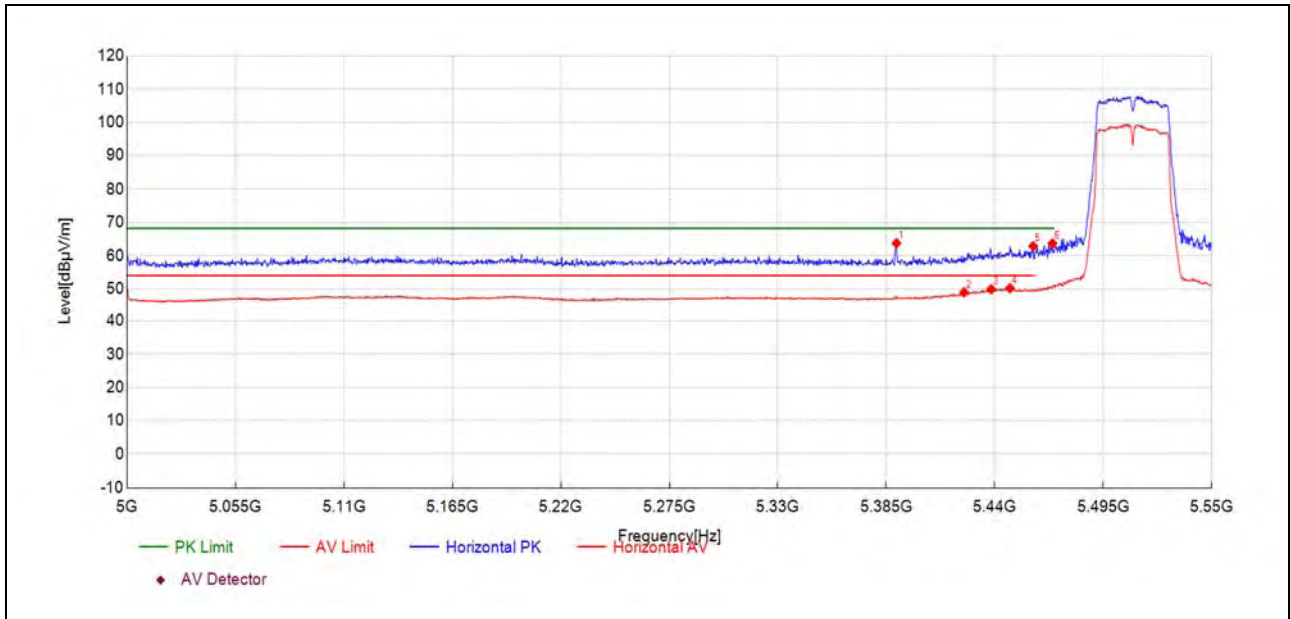
Plot for Channel 62



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5350.44	31.0	50.91	19.940	54.00	3.09	165	308	AV	PASS
5351.94	47.4	67.29	19.940	74.00	6.71	165	308	PK	PASS
5355.94	31.0	50.89	19.930	54.00	3.11	165	308	AV	PASS
5364.20	45.8	65.67	19.910	74.00	8.33	165	279	PK	PASS
5365.82	30.3	50.21	19.910	54.00	3.79	165	308	AV	PASS
5430.11	46.2	66.43	20.210	74.00	7.57	165	319	PK	PASS

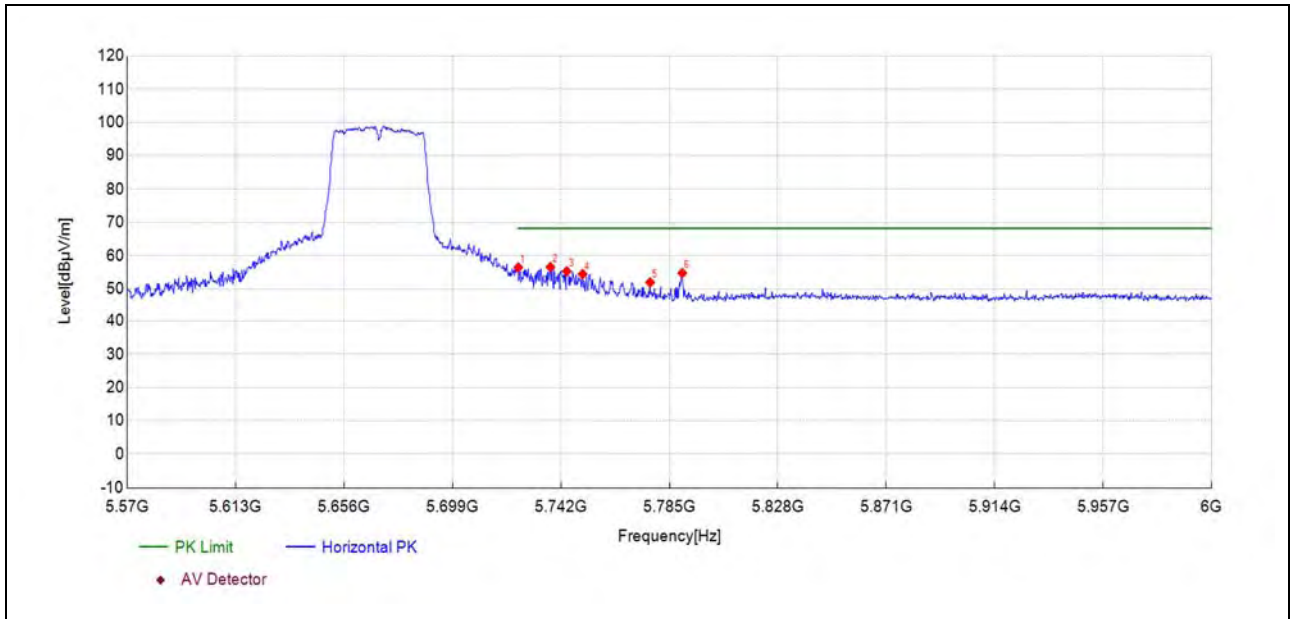


Plot for Channel 102



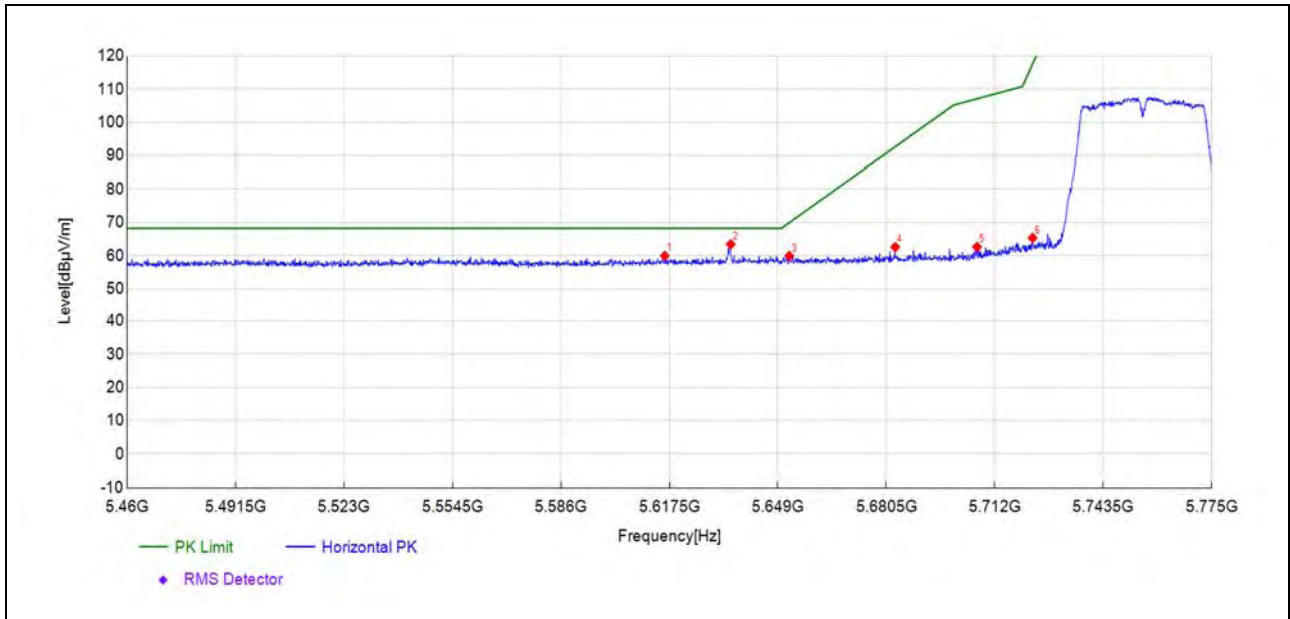
Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5390.18	43.9	63.77	19.850	68.23	4.46	165	287	PK	PASS
5424.44	28.8	48.93	20.140	54.00	5.07	165	318	AV	PASS
5438.20	29.6	49.89	20.320	54.00	4.11	165	318	AV	PASS
5447.70	29.7	50.18	20.440	54.00	3.82	165	287	AV	PASS
5459.46	42.4	62.86	20.420	68.23	5.37	165	318	PK	PASS
5469.21	43.3	63.67	20.370	68.23	4.56	165	318	PK	PASS

Plot for Channel 134



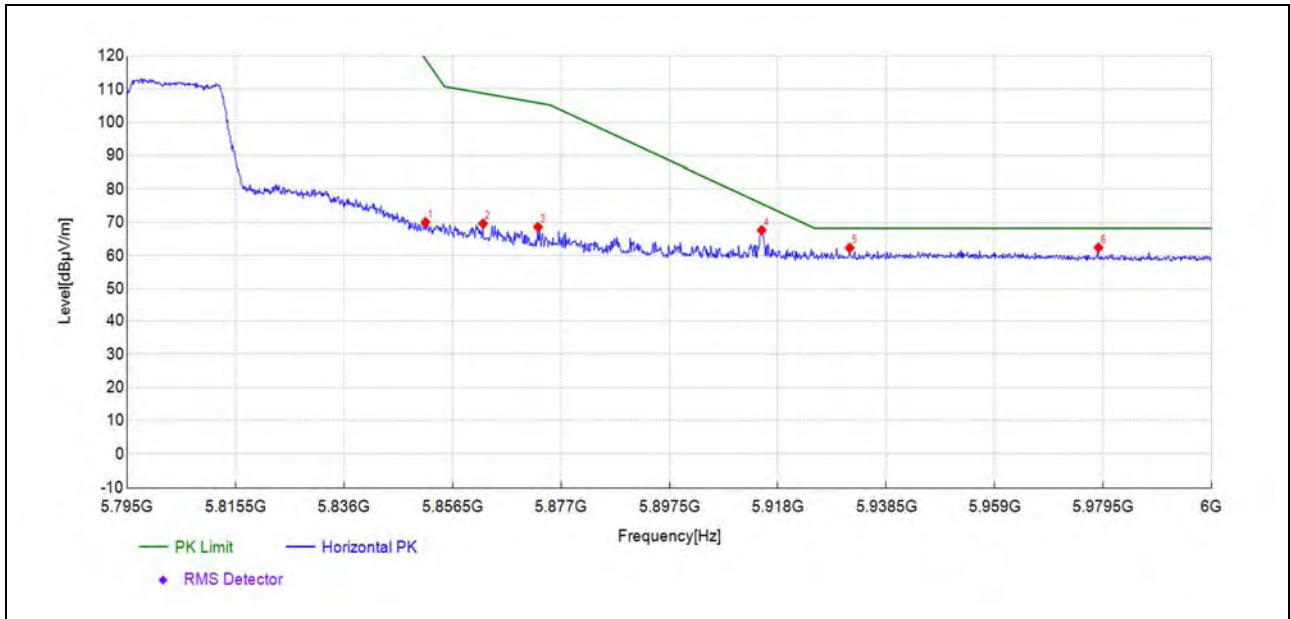
Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5725.09	47.2	56.43	9.260	68.23	11.80	165	305	PK	PASS
5737.85	47.1	56.55	9.460	68.23	11.68	165	305	PK	PASS
5744.35	45.7	55.29	9.550	68.23	12.94	165	295	PK	PASS
5750.61	44.8	54.43	9.640	68.23	13.80	165	286	PK	PASS
5777.37	42.3	51.93	9.670	68.23	16.30	165	295	PK	PASS
5790.13	45.0	54.73	9.690	68.23	13.50	165	295	PK	PASS

Plot for Channel 151



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5616.19	39.5	59.93	20.420	68.23	8.30	165	20	PK	PASS
5635.32	42.7	63.44	20.740	68.23	4.79	165	286	PK	PASS
5652.33	38.9	59.91	21.000	69.95	10.04	165	286	PK	PASS
5683.09	41.7	62.57	20.920	92.72	30.15	165	286	PK	PASS
5706.85	41.6	62.63	20.990	107.15	44.52	165	295	PK	PASS
5722.98	44.1	65.35	21.230	117.62	52.27	165	332	PK	PASS

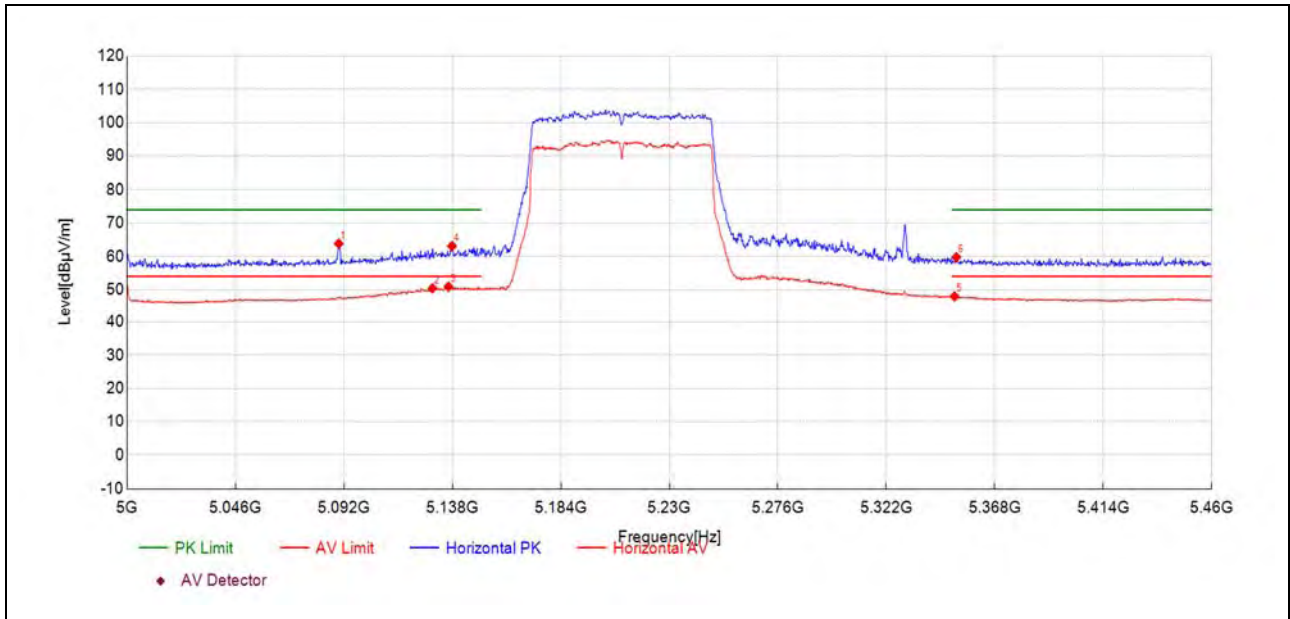
Plot for Channel 159



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5851.41	47.6	70.08	22.440	119.02	48.94	165	323	PK	PASS
5862.29	47.4	69.65	22.280	108.79	39.14	165	323	PK	PASS
5872.67	46.5	68.63	22.120	105.88	37.25	165	305	PK	PASS
5914.95	45.8	67.64	21.840	75.67	8.03	165	295	PK	PASS
5931.58	40.3	62.31	21.970	68.23	5.92	165	295	PK	PASS
5978.61	40.5	62.41	21.890	68.23	5.82	165	351	PK	PASS

**802.11ac (VHT80) Mode**

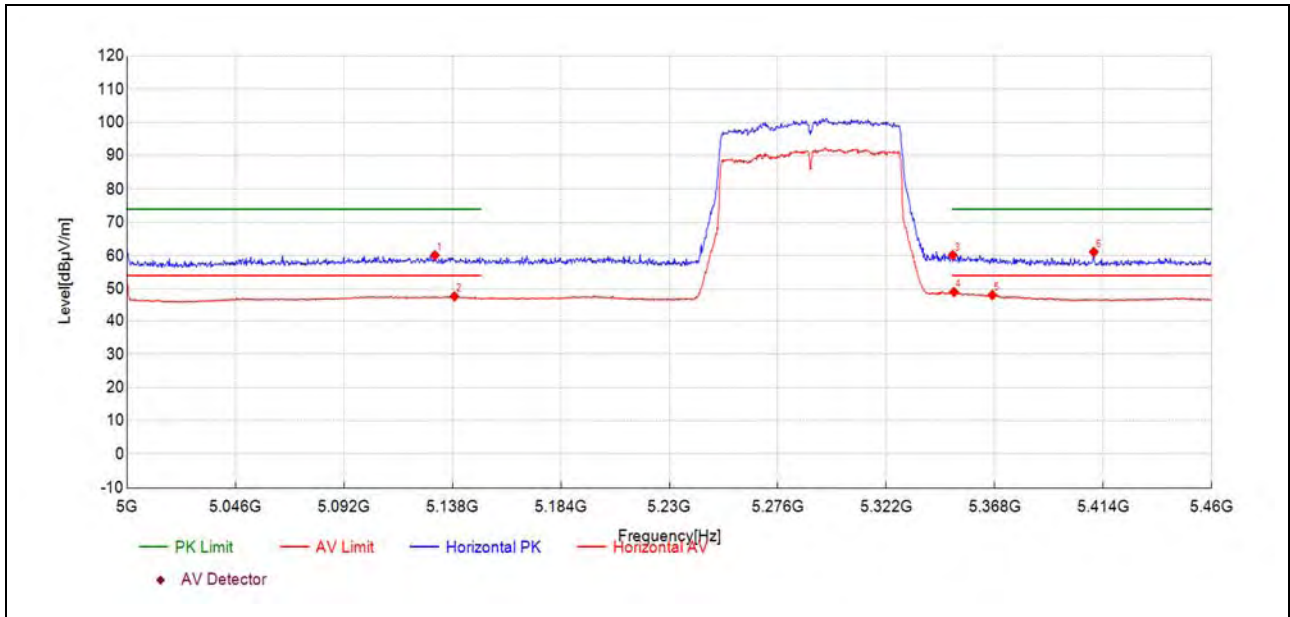
Plot for Channel 42



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5089.80	43.4	63.83	20.460	74.00	10.17	165	270	PK	PASS
5129.57	30.0	50.43	20.400	54.00	3.57	165	280	AV	PASS
5136.32	30.5	50.91	20.380	54.00	3.09	165	280	AV	PASS
5137.82	42.7	63.10	20.360	74.00	10.90	165	260	PK	PASS
5350.94	28.0	47.97	19.940	54.00	6.03	165	310	AV	PASS
5351.69	39.8	59.77	19.940	74.00	14.23	165	260	PK	PASS



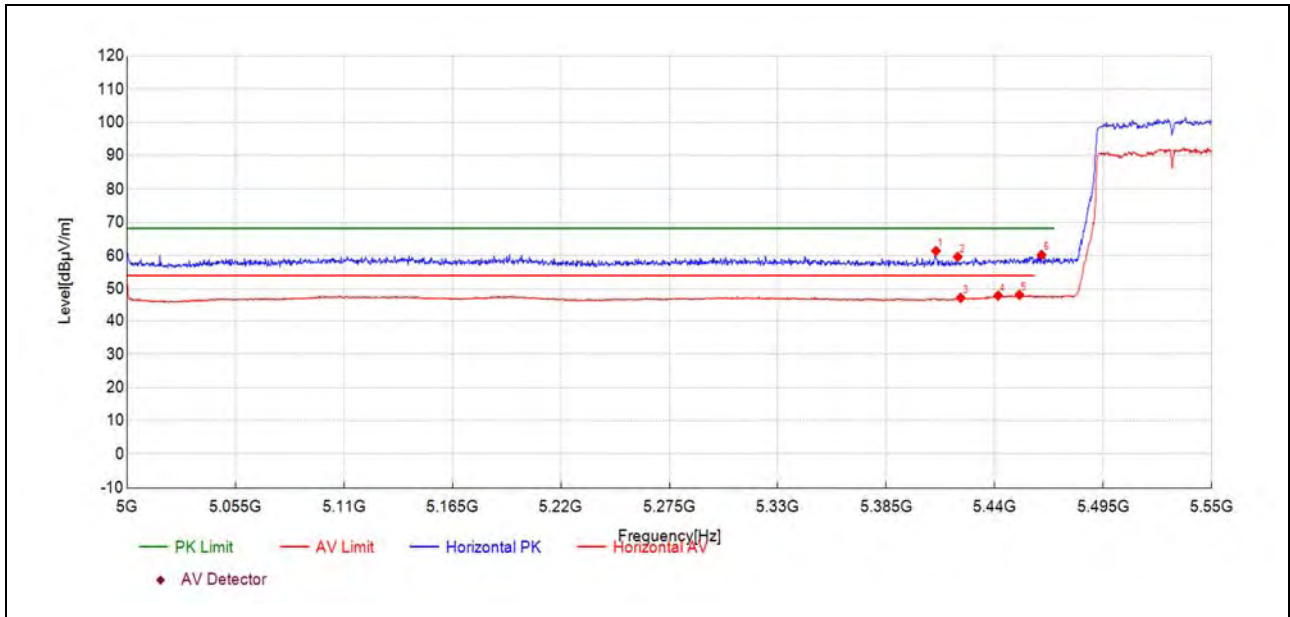
Plot for Channel 58



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5130.57	39.7	60.09	20.400	74.00	13.91	165	0	PK	PASS
5138.83	27.3	47.70	20.360	54.00	6.30	165	330	AV	PASS
5350.19	40.2	60.16	19.940	74.00	13.84	165	260	PK	PASS
5350.69	29.1	49.03	19.940	54.00	4.97	165	291	AV	PASS
5366.95	28.2	48.10	19.910	54.00	5.90	165	270	AV	PASS
5409.97	41.1	61.10	19.960	74.00	12.90	165	300	PK	PASS

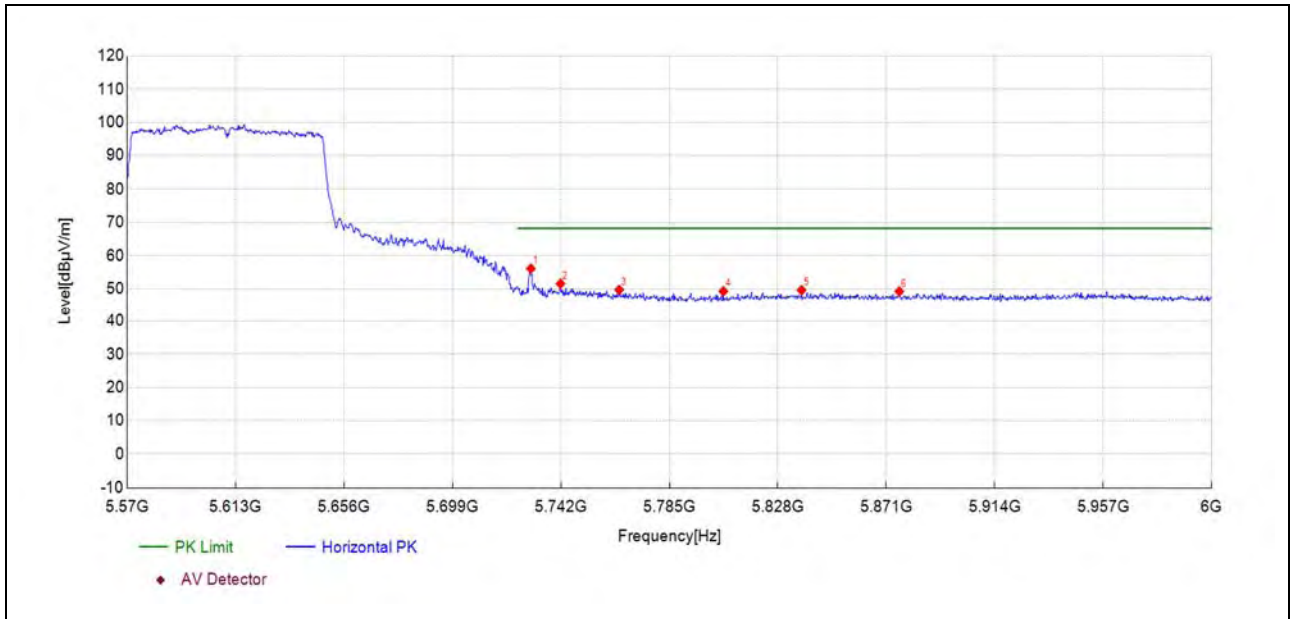


Plot for Channel 106



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5410.19	41.4	61.39	19.960	68.23	6.84	165	292	PK	PASS
5421.19	39.5	59.64	20.100	68.23	8.59	165	179	PK	PASS
5422.69	27.1	47.26	20.120	54.00	6.74	165	301	AV	PASS
5441.70	27.6	47.93	20.360	54.00	6.07	165	281	AV	PASS
5452.46	27.7	48.18	20.460	54.00	5.82	165	292	AV	PASS
5463.71	39.8	60.20	20.400	68.23	8.03	165	292	PK	PASS

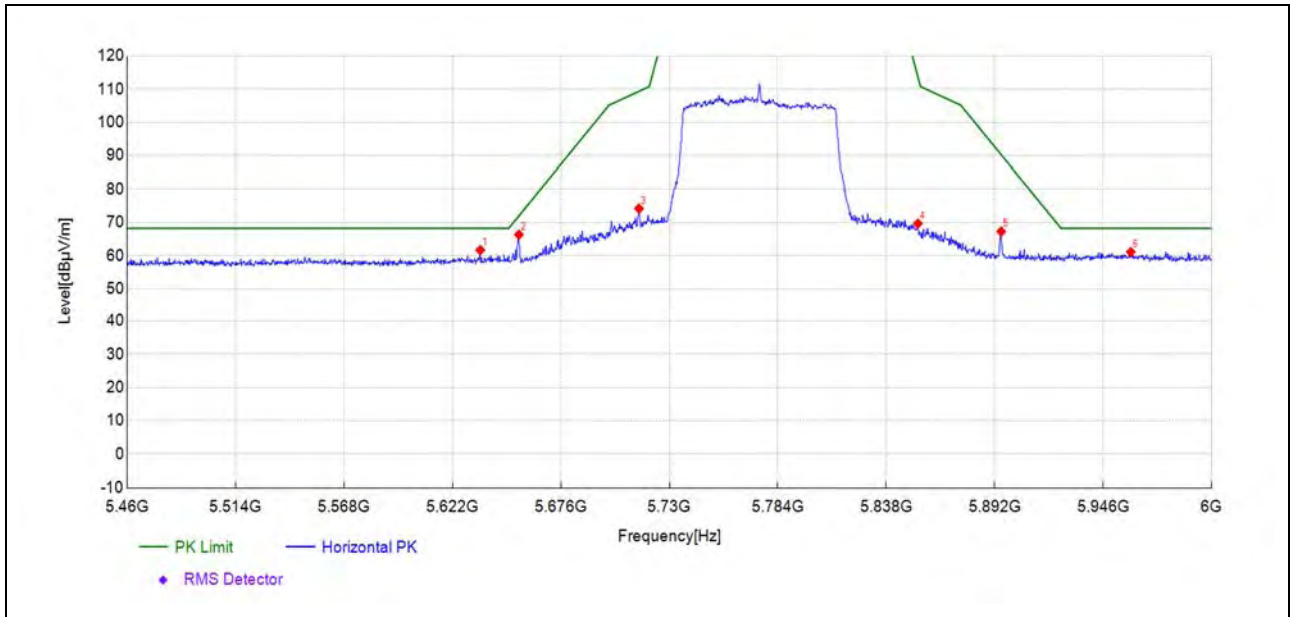
Plot for Channel 122



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5730.09	46.8	56.10	9.340	68.23	12.13	165	308	PK	PASS
5741.85	42.0	51.54	9.520	68.23	16.69	165	299	PK	PASS
5765.11	40.0	49.69	9.660	68.23	18.54	165	360	PK	PASS
5806.39	39.5	49.24	9.790	68.23	18.99	165	252	PK	PASS
5837.41	39.3	49.57	10.270	68.23	18.66	165	75	PK	PASS
5876.18	39.1	49.20	10.070	68.23	19.03	165	4	PK	PASS



Plot for Channel 155



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5635.83	40.9	61.64	20.760	68.23	6.59	165	300	PK	PASS
5655.09	45.3	66.33	20.990	72.00	5.67	165	290	PK	PASS
5714.87	53.1	74.20	21.110	109.39	35.19	165	300	PK	PASS
5853.68	47.2	69.65	22.410	113.83	44.18	165	300	PK	PASS
5895.20	45.5	67.24	21.790	90.28	23.04	165	281	PK	PASS
5959.73	39.0	61.08	22.040	68.23	7.15	165	290	PK	PASS



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.

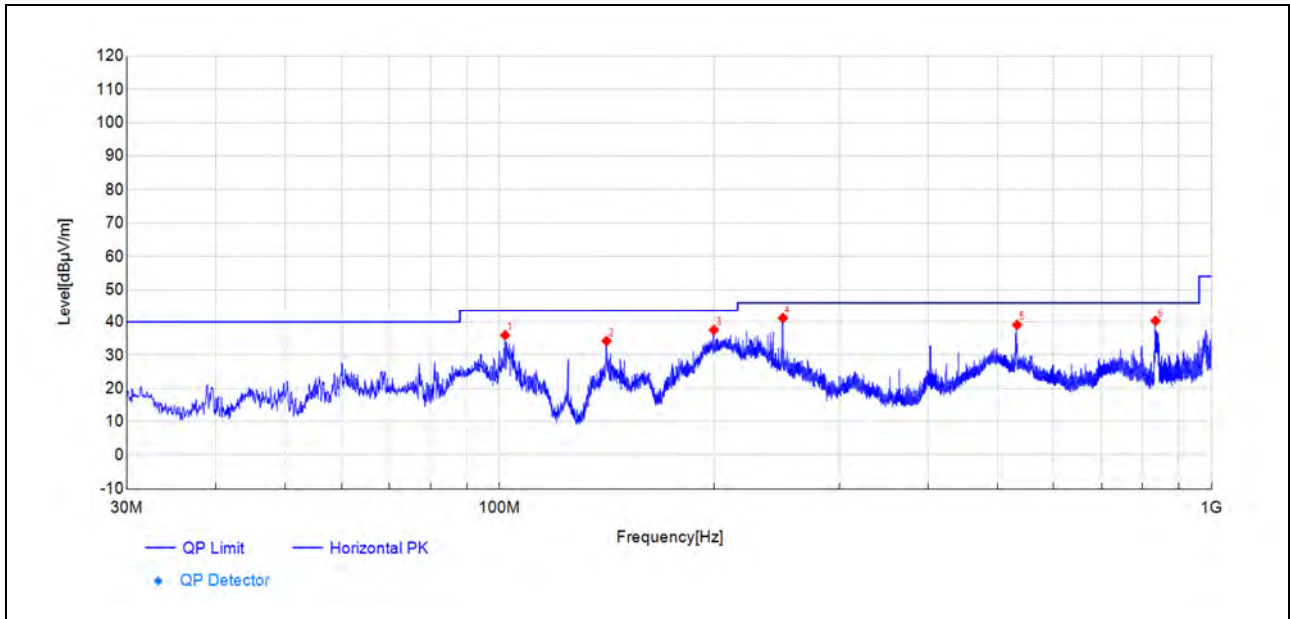
Note2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

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

Note4: All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.

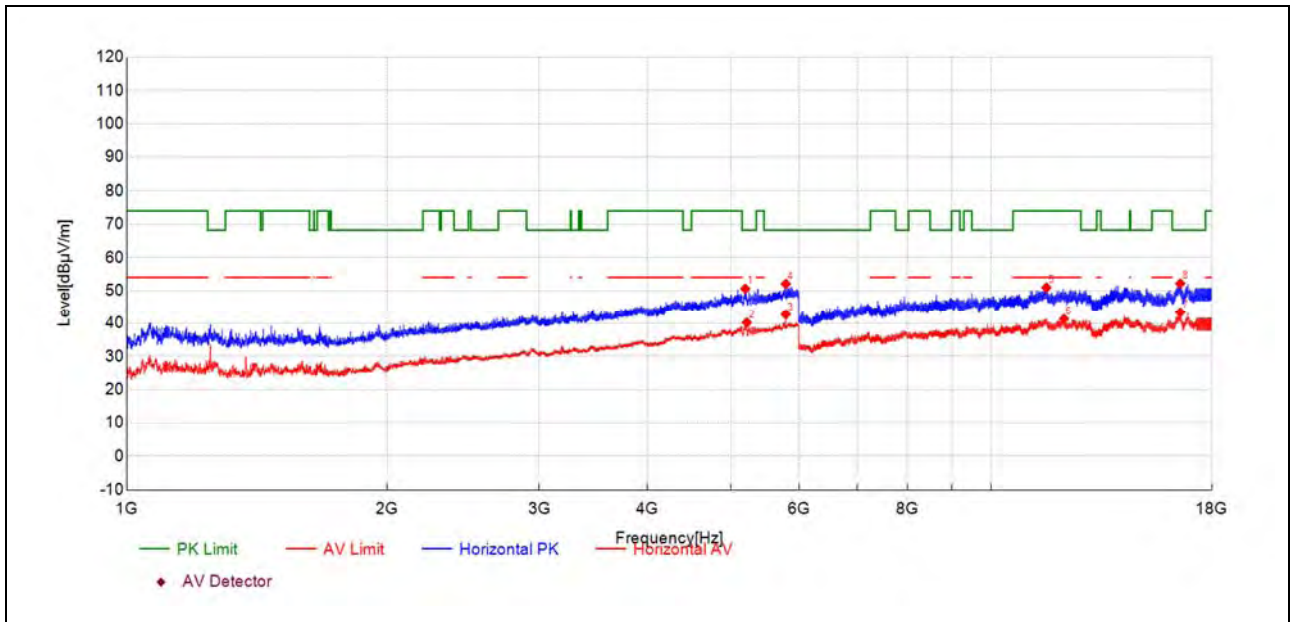
**802.11a Mode**

Plot for Channel 44



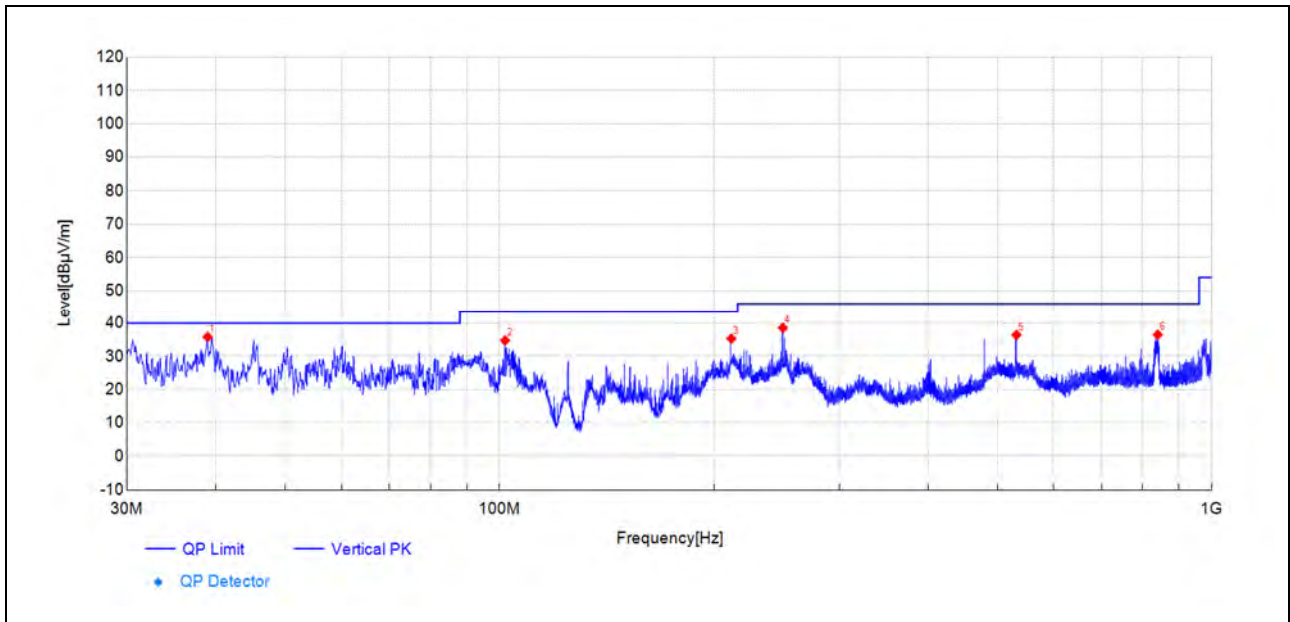
(Antenna Horizontal, 30MHz to 1GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
101.84	66.3	36.00	-30.310	43.50	7.50	165	110	PK	PASS
141.41	67.8	34.26	-33.570	43.50	9.24	165	84	PK	PASS
199.97	67.8	37.60	-30.220	43.50	5.90	165	97	PK	PASS
250.00	69.3	41.18	-28.120	46.00	4.82	165	266	PK	PASS
533.08	60.5	39.11	-21.390	46.00	6.89	165	159	PK	PASS
834.21	56.3	40.34	-15.910	46.00	5.66	165	153	PK	PASS



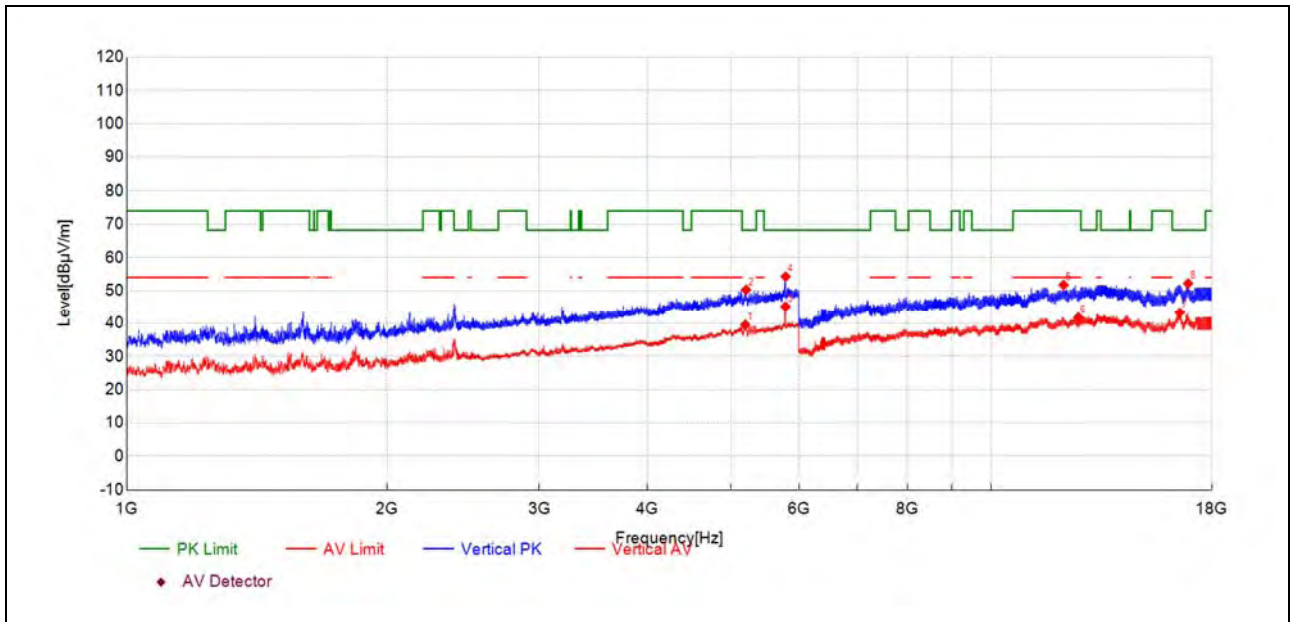
(Antenna Horizontal, 1GHz to 18GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5194.16	40.3	50.59	10.310	68.23	17.64	165	28	PK	PASS
5215.45	30.0	40.21	10.170	-	-	165	338	AV	NA
5785.54	30.7	42.70	12.030	-	-	165	266	AV	NA
5786.03	40.0	52.04	12.030	68.23	16.19	165	266	PK	PASS
11586.39	47.8	50.91	3.080	74.00	23.09	165	307	PK	PASS
12143.68	38.3	41.30	2.960	54.00	12.70	165	81	AV	PASS
16554.22	37.2	43.34	6.140	-	-	165	247	AV	NA
16554.72	46.0	52.15	6.140	68.23	16.08	165	232	PK	PASS



(Antenna Vertical, 30MHz to 1GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
38.94	65.3	35.84	-29.430	40.00	4.16	165	164	PK	PASS
101.84	65.1	34.79	-30.310	43.50	8.71	165	34	PK	PASS
211.61	65.1	35.32	-29.740	43.50	8.18	165	157	PK	PASS
250.00	66.7	38.57	-28.120	46.00	7.43	165	102	PK	PASS
532.02	57.9	36.45	-21.400	46.00	9.55	165	90	PK	PASS
840.03	52.3	36.51	-15.810	46.00	9.49	165	77	PK	PASS

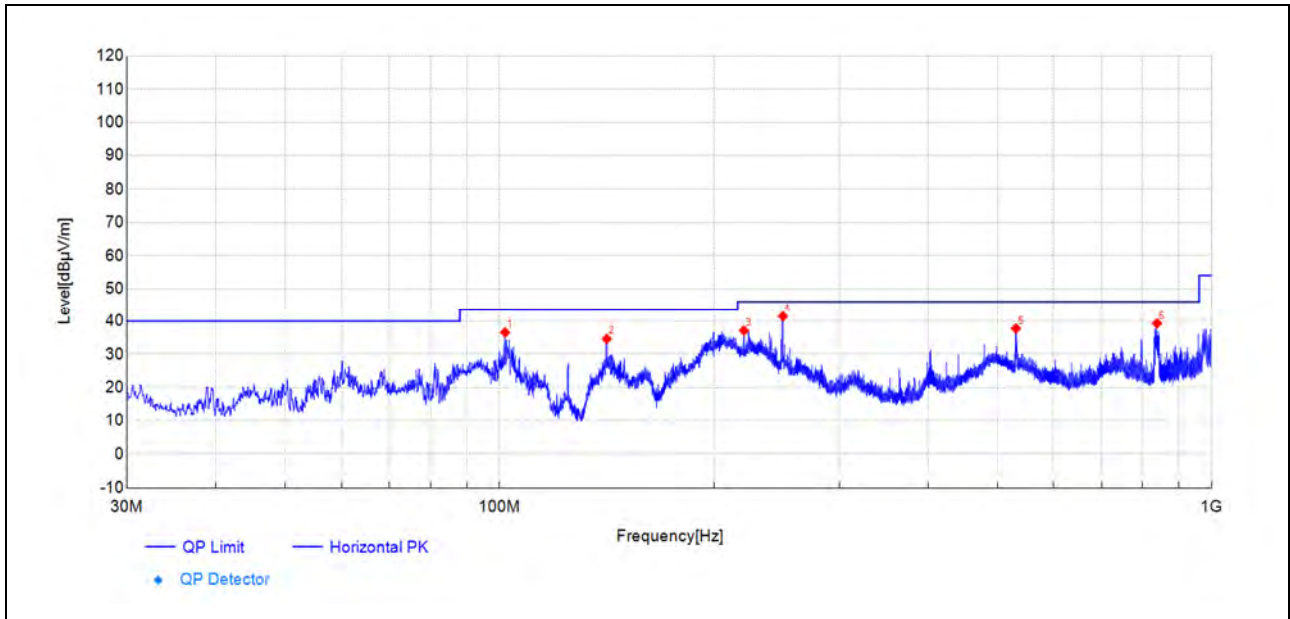


(Antenna Vertical, 1GHz to 18GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5194.16	29.2	39.53	10.310	-	-	165	171	AV	NA
5205.05	40.0	50.25	10.280	68.23	17.98	165	351	PK	PASS
5782.07	33.1	45.18	12.060	-	-	165	128	AV	NA
5783.06	42.2	54.24	12.060	68.23	13.99	165	139	PK	PASS
12131.23	48.8	51.71	2.950	74.00	22.29	165	10	PK	PASS
12620.29	38.5	41.78	3.310	54.00	12.22	165	354	AV	PASS
16536.29	37.2	43.26	6.080	-	-	165	294	AV	NA
16903.84	44.9	52.16	7.220	68.23	16.07	165	264	PK	PASS

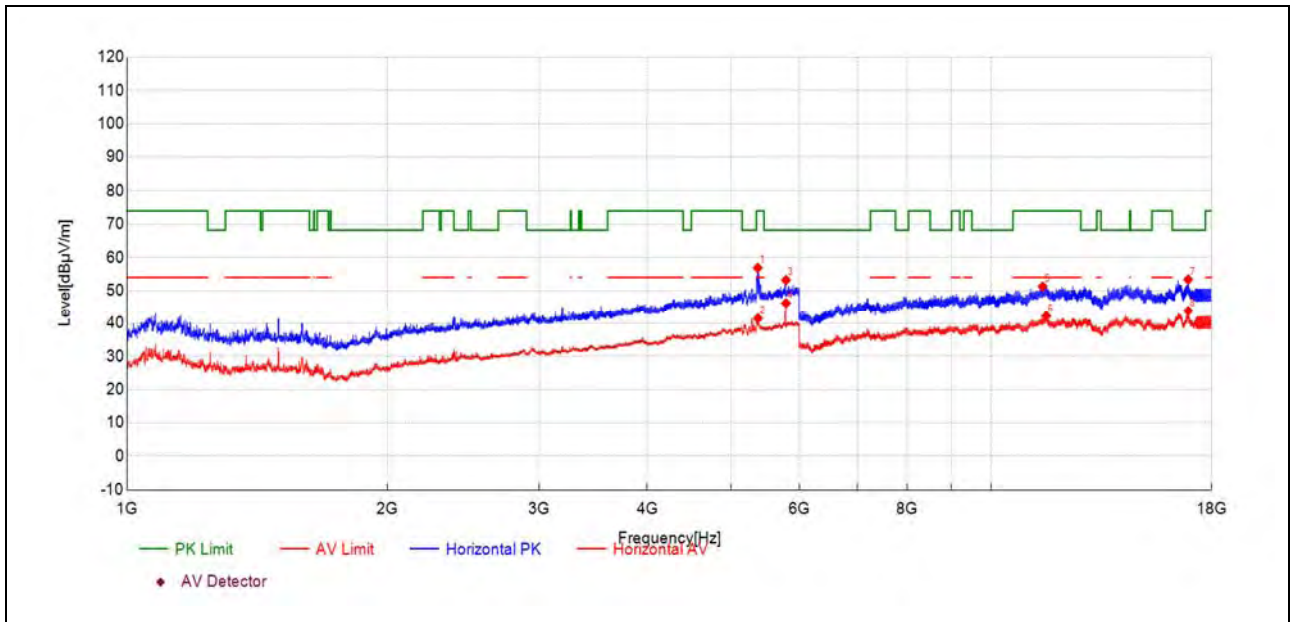


Plot for Channel 60



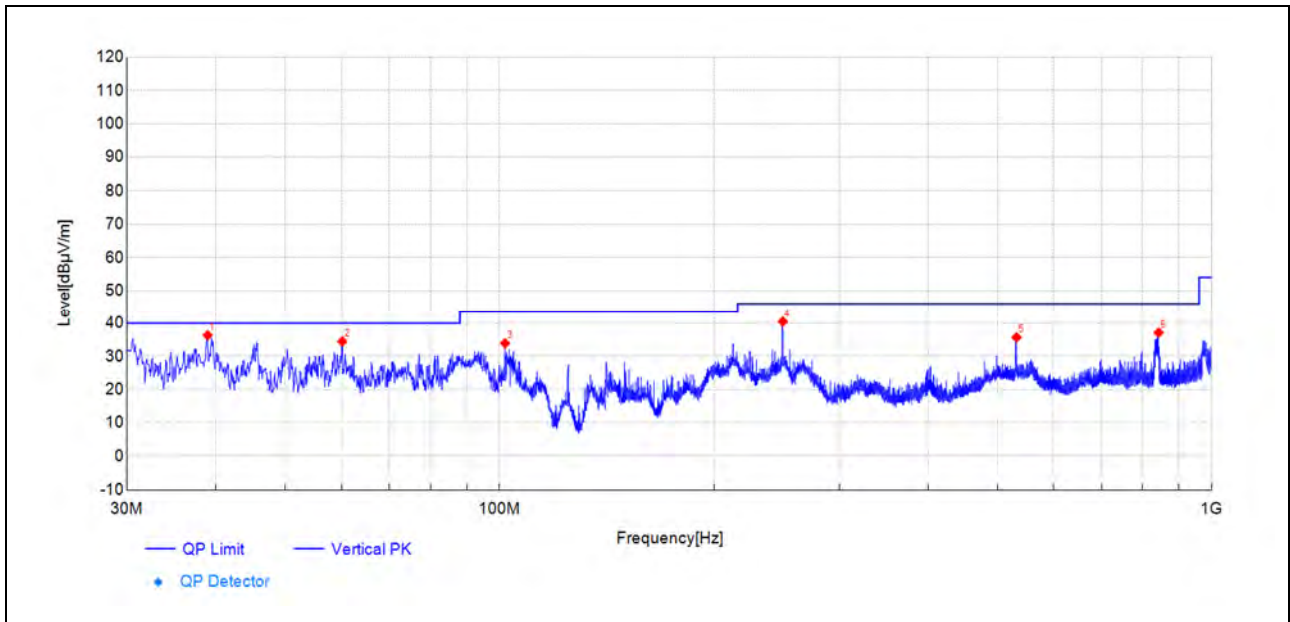
(Antenna Horizontal, 30MHz to 1GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
101.84	66.9	36.58	-30.310	43.50	6.92	165	102	PK	PASS
141.47	68.2	34.64	-33.570	43.50	8.86	165	115	PK	PASS
220.48	66.3	37.14	-29.190	46.00	8.86	165	227	PK	PASS
250.00	69.6	41.47	-28.120	46.00	4.53	165	258	PK	PASS
531.08	59.2	37.76	-21.400	46.00	8.24	165	133	PK	PASS
837.79	55.1	39.28	-15.850	46.00	6.72	165	158	PK	PASS



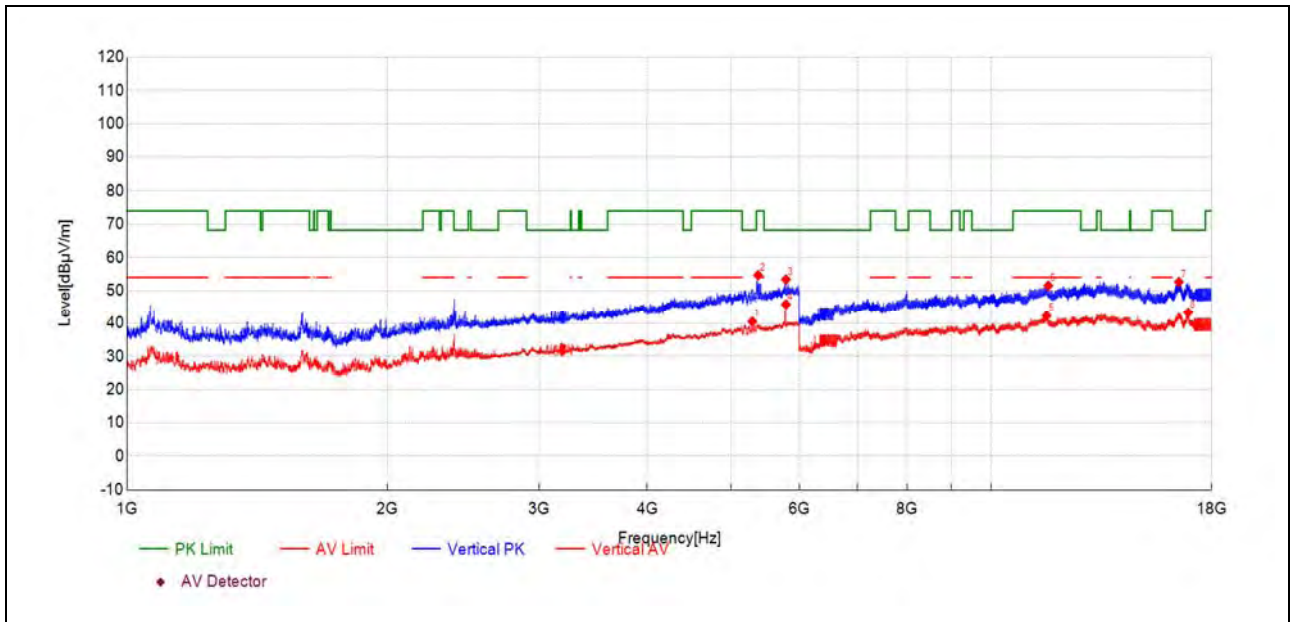
(Antenna Horizontal, 1GHz to 18GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5368.50	46.8	56.88	10.060	74.00	17.12	165	360	PK	PASS
5372.46	31.4	41.48	10.070	54.00	12.52	165	348	AV	PASS
5789.00	41.2	53.20	12.000	68.23	15.03	165	62	PK	PASS
5789.00	34.2	46.21	12.000	-	-	165	106	AV	NA
11471.34	48.8	51.24	2.460	74.00	22.76	165	263	PK	PASS
11581.90	39.1	42.17	3.040	54.00	11.83	165	1	AV	PASS
16904.34	46.2	53.35	7.200	68.23	14.88	165	150	PK	PASS
16906.83	36.6	43.79	7.150	-	-	165	268	AV	NA



(Antenna Vertical, 30MHz to 1GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
38.94	65.8	36.34	-29.430	40.00	3.66	165	133	PK	PASS
60.16	65.5	34.49	-30.970	40.00	5.51	165	283	PK	PASS
101.84	64.2	33.91	-30.310	43.50	9.59	165	27	PK	PASS
250.00	68.6	40.51	-28.120	46.00	5.49	165	109	PK	PASS
532.14	57.1	35.70	-21.390	46.00	10.30	165	71	PK	PASS
842.56	52.9	37.15	-15.710	46.00	8.85	165	95	PK	PASS

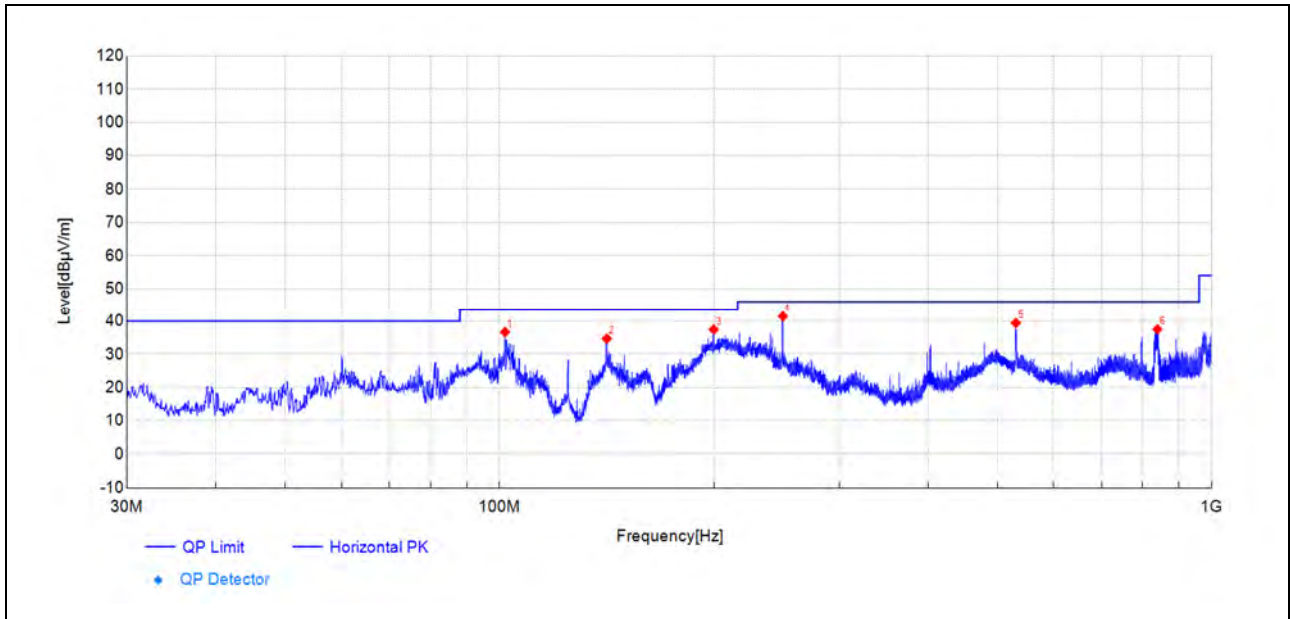


(Antenna Vertical, 1GHz to 18GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5292.72	30.3	40.51	10.220	-	-	165	38	AV	NA
5373.95	44.6	54.68	10.060	74.00	19.32	165	11	PK	PASS
5788.51	41.4	53.36	12.010	68.23	14.87	165	31	PK	PASS
5788.51	33.8	45.82	12.010	-	-	165	82	AV	NA
11593.36	39.1	42.27	3.140	54.00	11.73	165	277	AV	PASS
11645.15	49.1	51.49	2.440	74.00	22.51	165	286	PK	PASS
16490.97	46.7	52.61	5.900	68.23	15.62	165	60	PK	PASS
16907.33	36.1	43.27	7.140	-	-	165	213	AV	NA

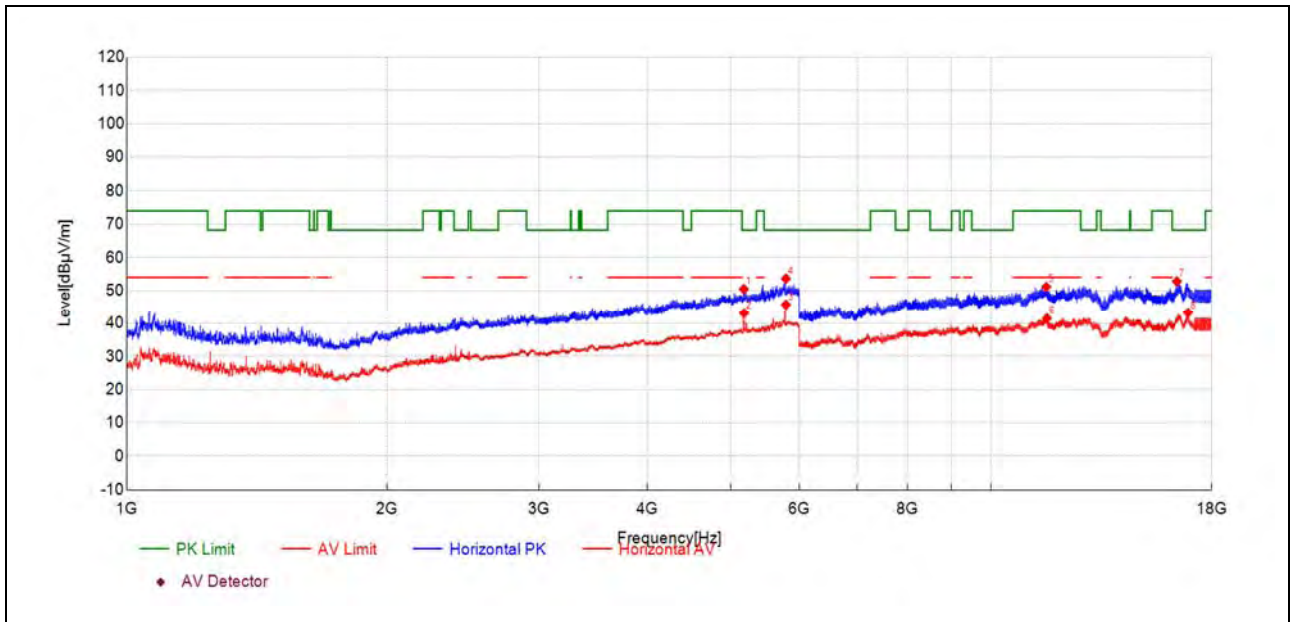


Plot for Channel 120



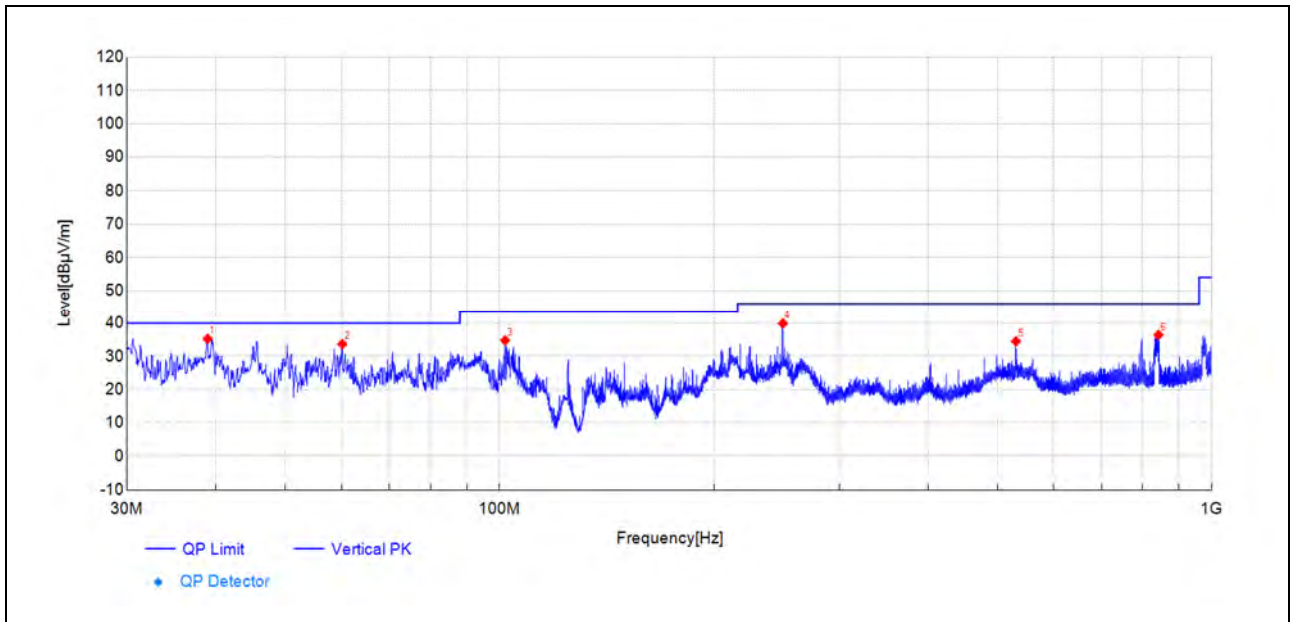
(Antenna Horizontal, 30MHz to 1GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
101.84	67.0	36.70	-30.310	43.50	6.80	165	109	PK	PASS
141.47	68.3	34.71	-33.570	43.50	8.79	165	102	PK	PASS
199.97	67.7	37.46	-30.220	43.50	6.04	165	127	PK	PASS
250.00	69.6	41.48	-28.120	46.00	4.52	165	265	PK	PASS
530.90	60.8	39.41	-21.410	46.00	6.59	165	127	PK	PASS
839.15	53.3	37.51	-15.830	46.00	8.49	165	159	PK	PASS



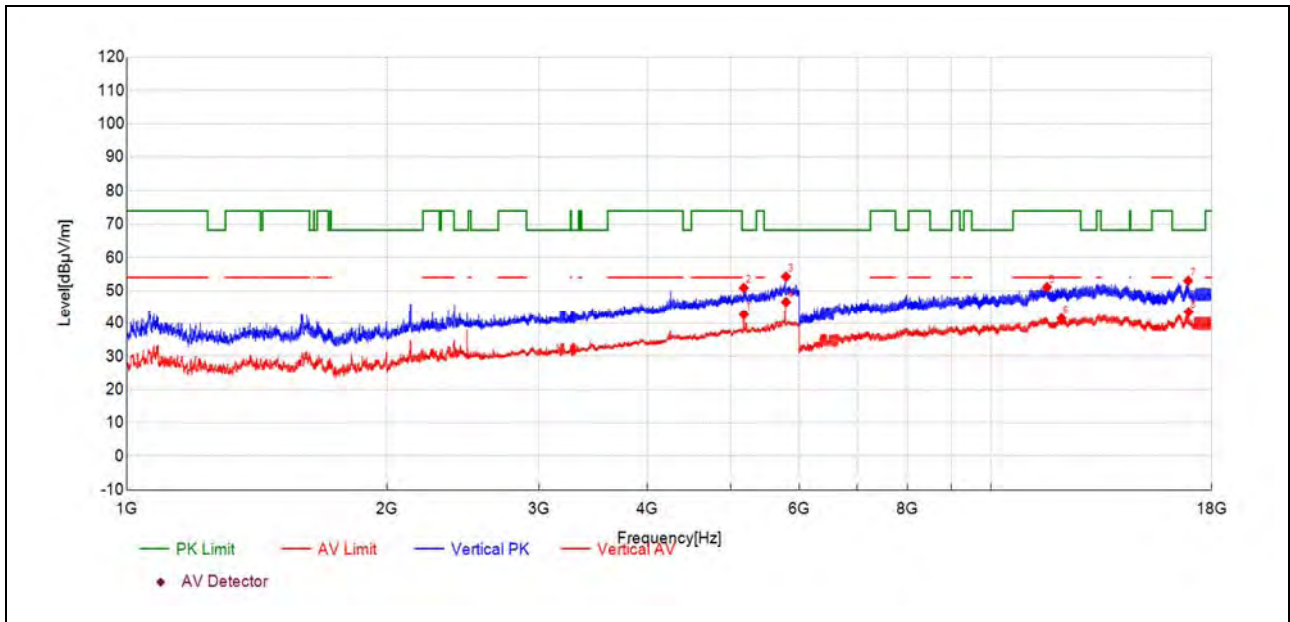
(Antenna Horizontal, 1GHz to 18GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5174.34	40.5	50.47	9.980	68.23	17.76	165	340	PK	PASS
5176.32	33.1	43.05	9.990	-	-	165	85	AV	NA
5788.01	33.3	45.73	12.470	-	-	165	348	AV	NA
5788.51	41.2	53.64	12.460	68.23	14.59	165	348	PK	PASS
11584.89	48.0	51.11	3.070	74.00	22.89	165	86	PK	PASS
11604.81	38.4	41.48	3.110	54.00	12.52	165	174	AV	PASS
16406.31	47.3	52.80	5.460	68.23	15.43	165	150	PK	PASS
16899.85	35.9	43.23	7.300	-	-	165	101	AV	NA



(Antenna Vertical, 30MHz to 1GHz)

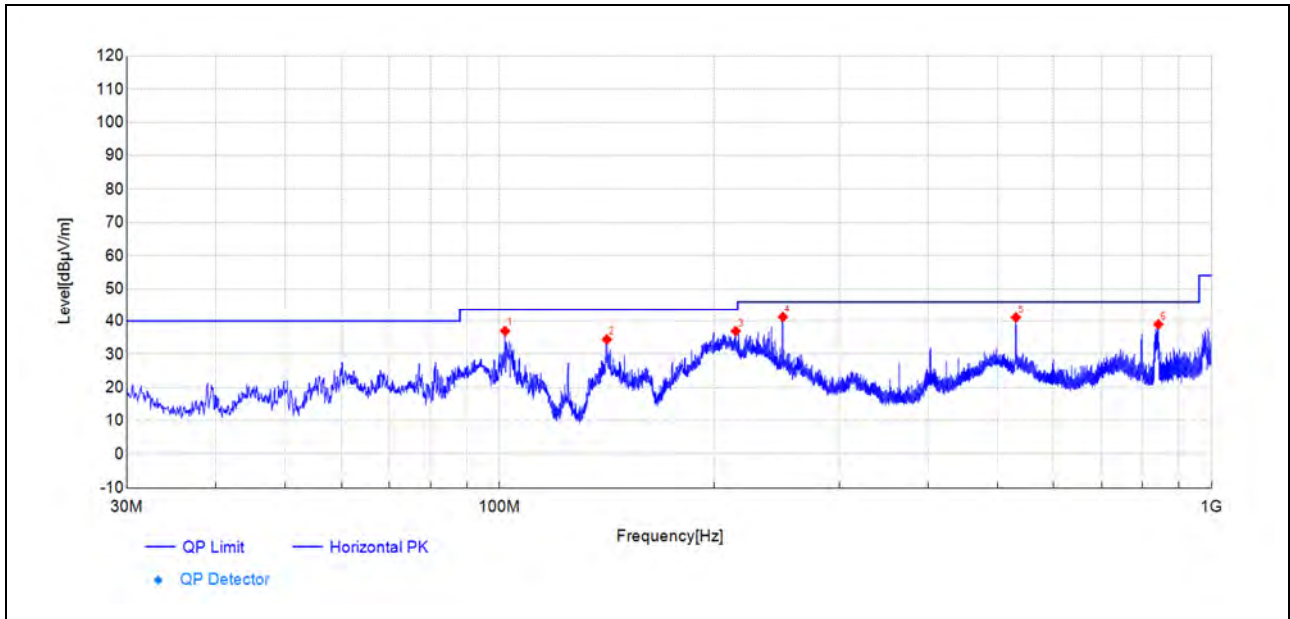
Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
38.94	64.7	35.27	-29.430	40.00	4.73	165	132	PK	PASS
60.16	64.6	33.67	-30.970	40.00	6.33	165	276	PK	PASS
101.84	65.1	34.79	-30.310	43.50	8.71	165	32	PK	PASS
250.00	68.0	39.88	-28.120	46.00	6.12	165	95	PK	PASS
531.02	55.9	34.53	-21.400	46.00	11.47	165	0	PK	PASS
841.79	52.2	36.44	-15.740	46.00	9.56	165	108	PK	PASS



(Antenna Vertical, 1GHz to 18GHz)

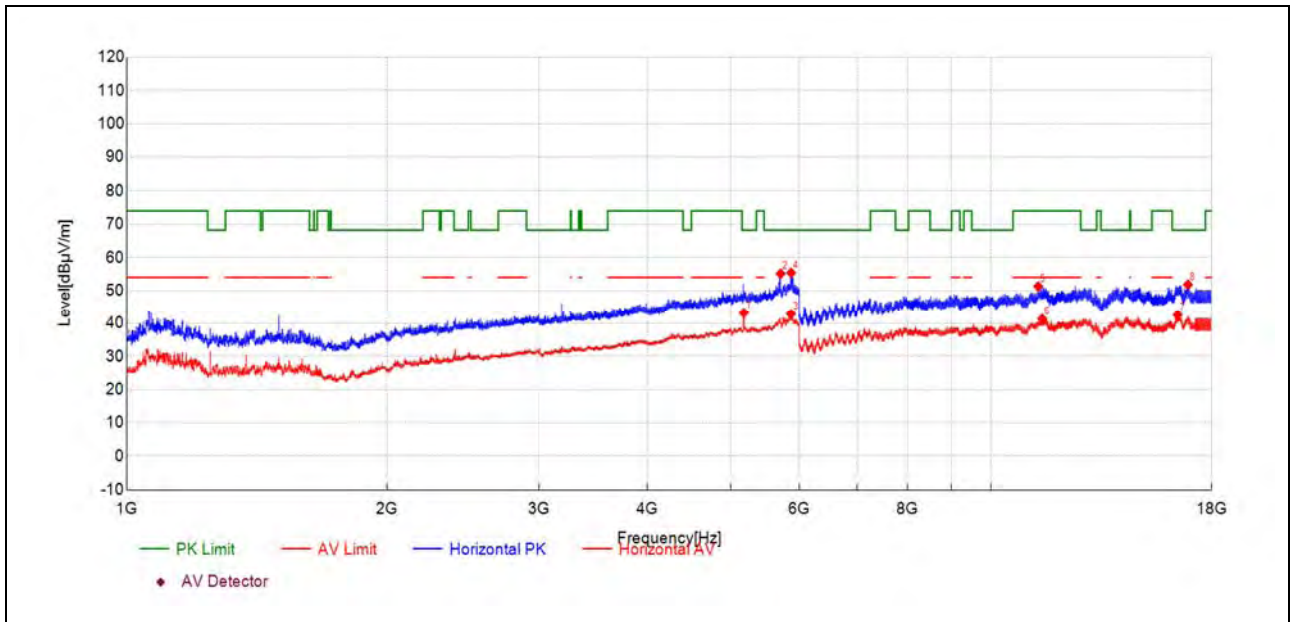
Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5173.85	32.6	42.62	9.980	-	-	165	295	AV	NA
5173.85	40.8	50.82	9.980	68.23	17.41	165	295	PK	PASS
5789.00	41.8	54.21	12.460	68.23	14.02	165	48	PK	PASS
5790.00	34.1	46.57	12.450	-	-	165	48	AV	NA
11605.31	48.0	51.05	3.100	74.00	22.95	165	208	PK	PASS
12066.49	38.7	41.47	2.740	54.00	12.53	165	193	AV	PASS
16906.83	45.8	52.99	7.150	68.23	15.24	165	26	PK	PASS
16928.24	36.8	43.48	6.700	-	-	165	346	AV	NA

Plot for Channel 157



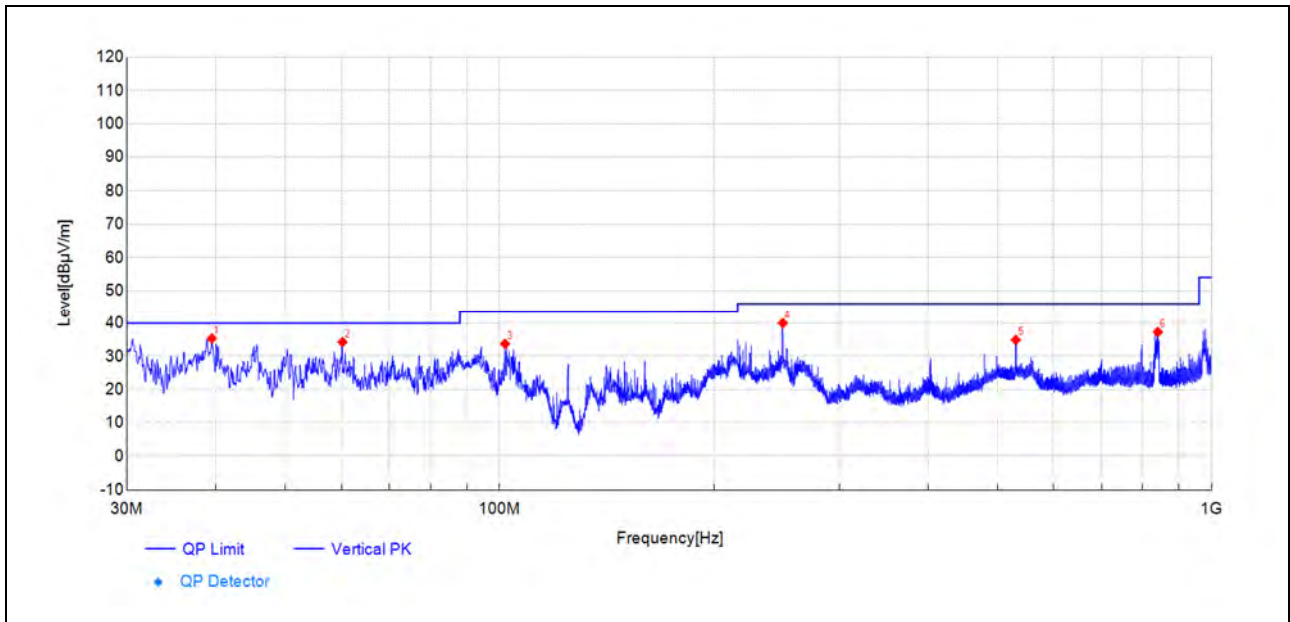
(Antenna Horizontal, 30MHz to 1GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
101.84	67.3	37.00	-30.310	43.50	6.50	165	90	PK	PASS
141.53	68.0	34.45	-33.570	43.50	9.05	165	84	PK	PASS
214.72	66.5	36.94	-29.580	43.50	6.56	165	102	PK	PASS
250.00	69.3	41.21	-28.120	46.00	4.79	165	251	PK	PASS
531.08	62.5	41.08	-21.400	46.00	4.92	165	139	PK	PASS
841.67	54.8	39.01	-15.750	46.00	6.99	165	164	PK	PASS



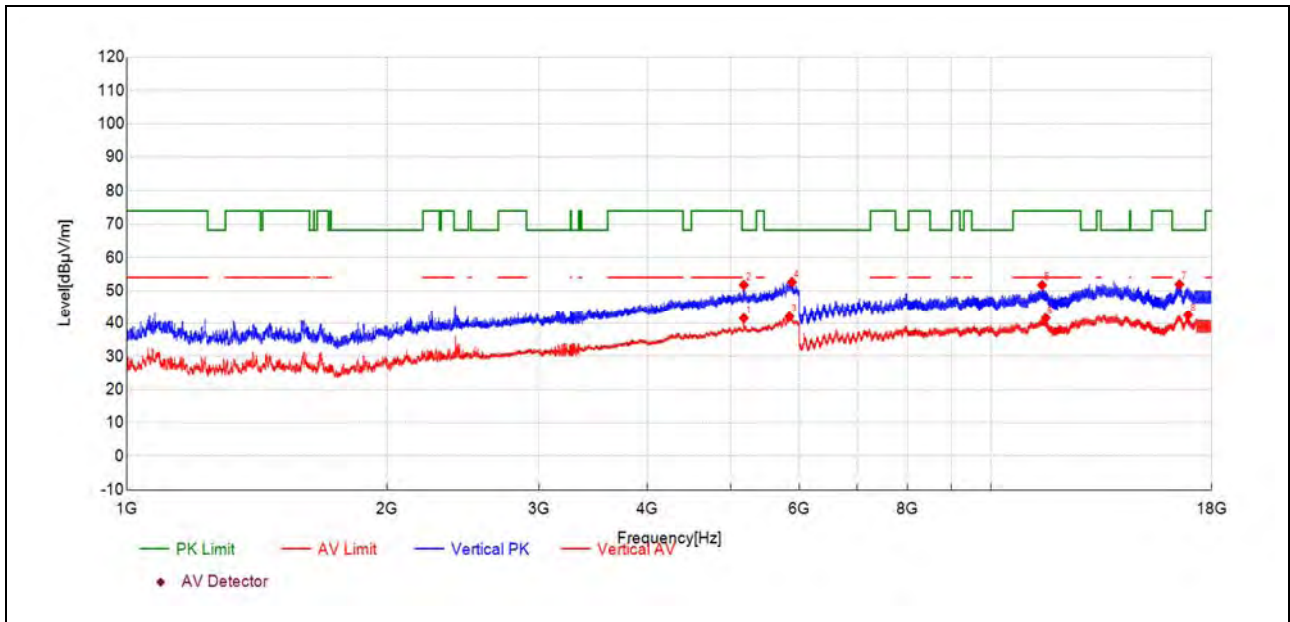
(Antenna Horizontal, 1GHz to 18GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5174.84	32.9	43.19	10.250	-	-	165	13	AV	NA
5706.29	43.1	55.13	12.060	68.23	13.10	165	354	PK	PASS
5867.26	28.9	42.83	13.890	-	-	165	360	AV	NA
5869.24	41.5	55.39	13.870	68.23	12.84	165	299	PK	PASS
11337.87	48.8	51.30	2.500	74.00	22.70	165	0	PK	PASS
11457.40	38.4	41.35	2.910	54.00	12.65	165	334	AV	PASS
16439.68	36.8	42.54	5.700	-	-	165	0	AV	NA
16897.36	44.9	51.81	6.870	68.23	16.42	165	304	PK	PASS



(Antenna Vertical, 30MHz to 1GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
39.47	64.6	35.36	-29.270	40.00	4.64	165	170	PK	PASS
60.22	65.3	34.29	-30.990	40.00	5.71	165	308	PK	PASS
101.84	64.1	33.74	-30.310	43.50	9.76	165	21	PK	PASS
250.00	68.1	40.02	-28.120	46.00	5.98	165	140	PK	PASS
531.02	56.3	34.91	-21.400	46.00	11.09	165	82	PK	PASS
840.09	53.1	37.31	-15.810	46.00	8.69	165	76	PK	PASS



(Antenna Vertical, 1GHz to 18GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5173.35	31.3	41.53	10.240	-	-	165	20	AV	NA
5173.35	41.5	51.73	10.240	68.23	16.50	165	20	PK	PASS
5842.99	28.1	42.01	13.920	-	-	165	278	AV	NA
5880.63	39.0	52.58	13.540	68.23	15.65	165	183	PK	PASS
11453.91	48.8	51.67	2.920	74.00	22.33	165	173	PK	PASS
11569.95	38.6	41.57	2.960	54.00	12.43	165	324	AV	PASS
16515.87	46.0	51.91	5.940	68.23	16.32	165	124	PK	PASS
16906.83	35.7	42.46	6.810	-	-	165	154	AV	NA



Notes

1. The report shall have report stamp or our company stamp.
2. The report shall be invalid without all the signatures of the editor and approver.
3. The report shall not be changed.
4. Any objections must be raised to Morlab within 15 days since the date when the report is received. It will not be taken into consideration beyond this limit.
5. Conformity declaration:
 - ☒ Morlab issues a statement of conformity based on the corresponding standards (default)
 - ☐ Morlab issues a statement of conformity based on the applicant requirement
6. Use of uncertainty of measurement for decisions on conformity (decision rule):

No decision rule is specified by the testing standard, when comparing the measurement result with the applicable limit according to the specification in that standard. The decisions on conformity are made without applying the measurement uncertainty ("simple acceptance" decision rule).

————— END OF REPORT —————

