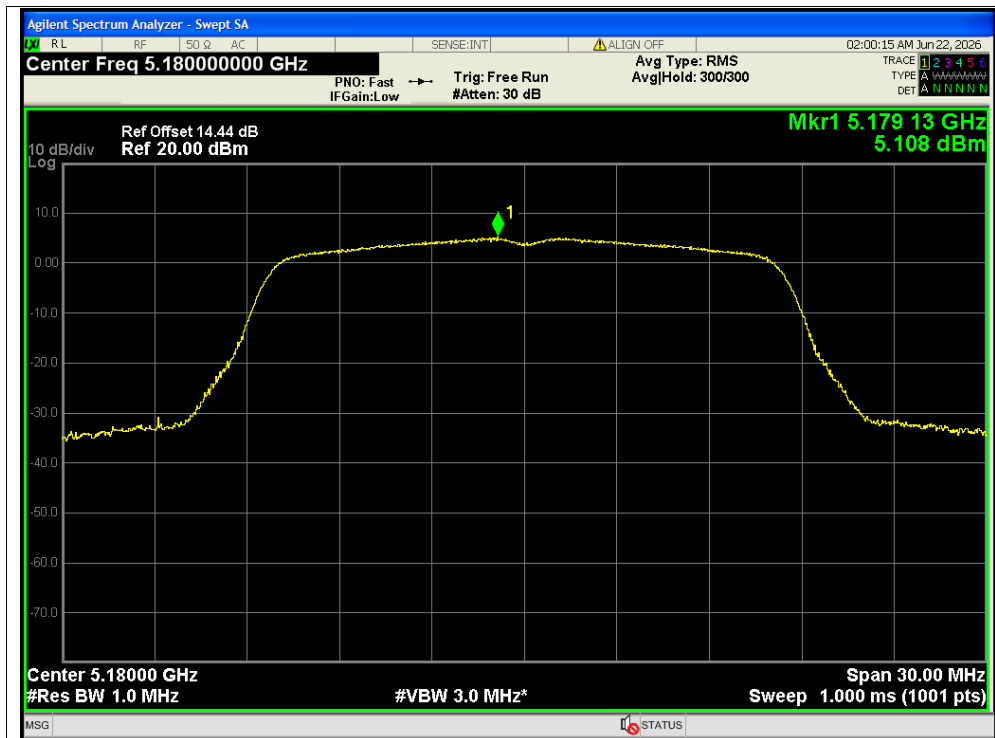
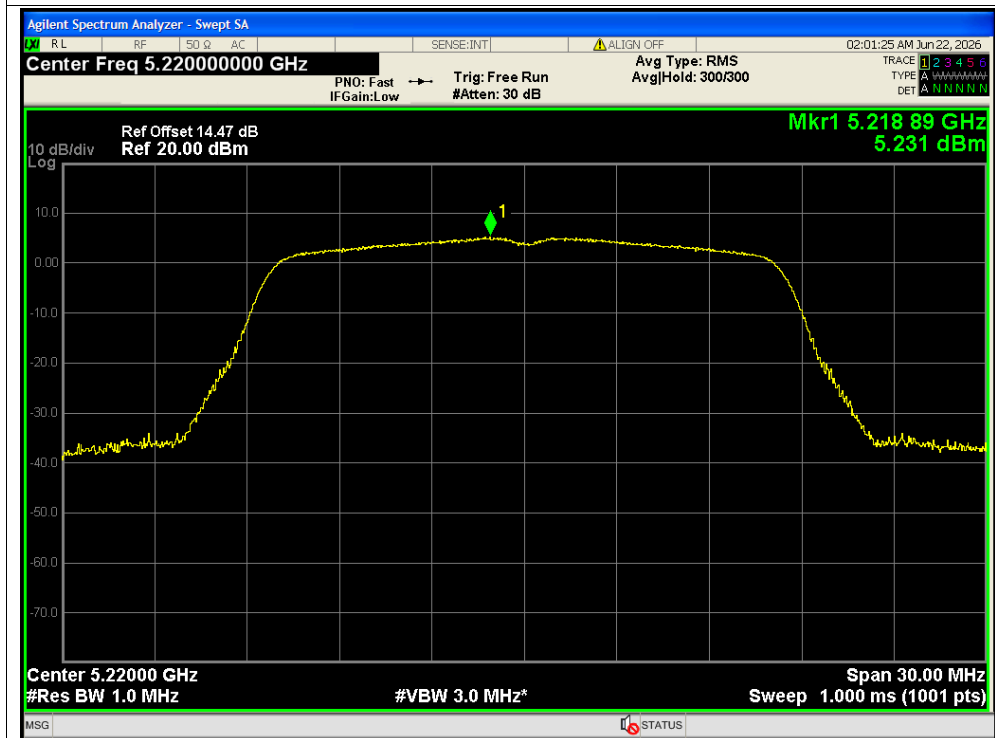
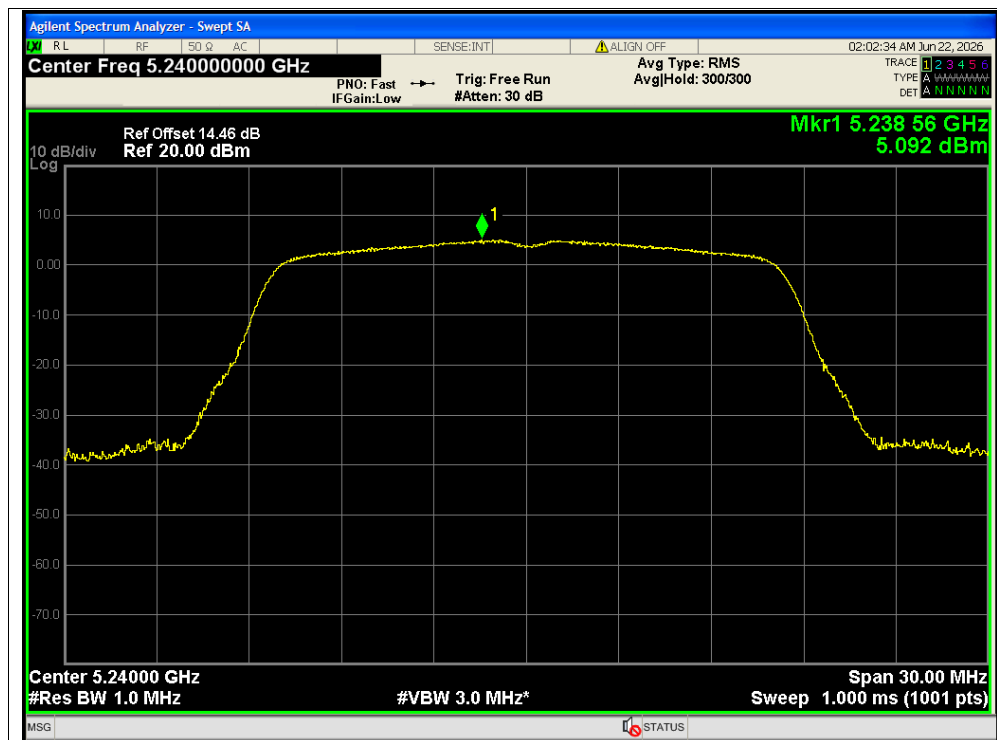




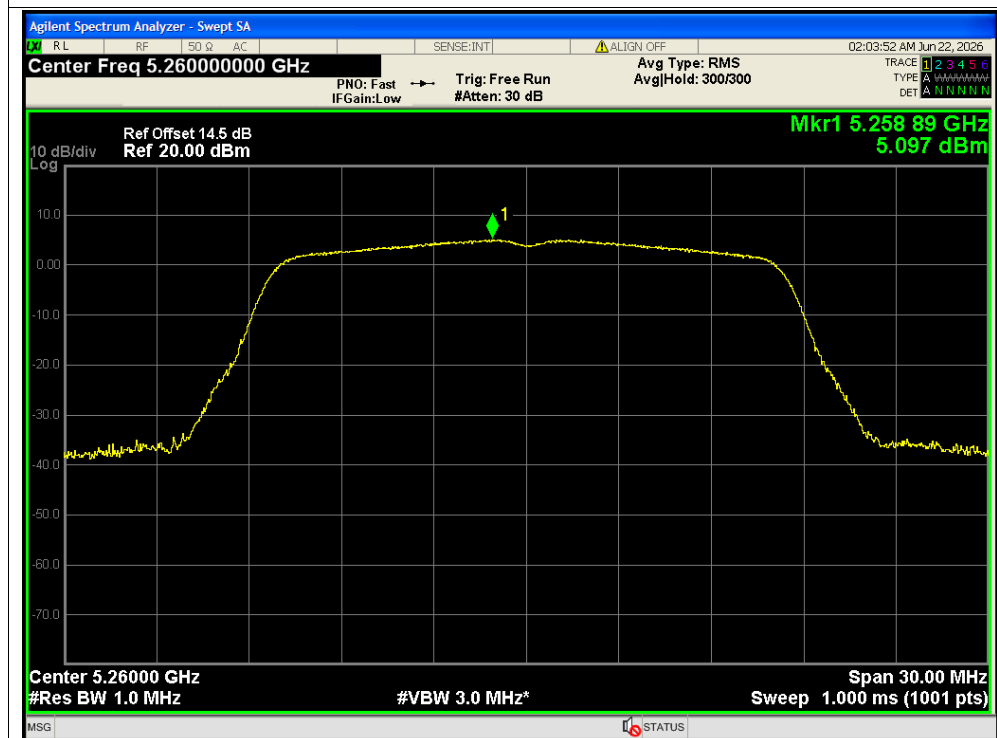
PSD NVNT a 5180MHz Ant1



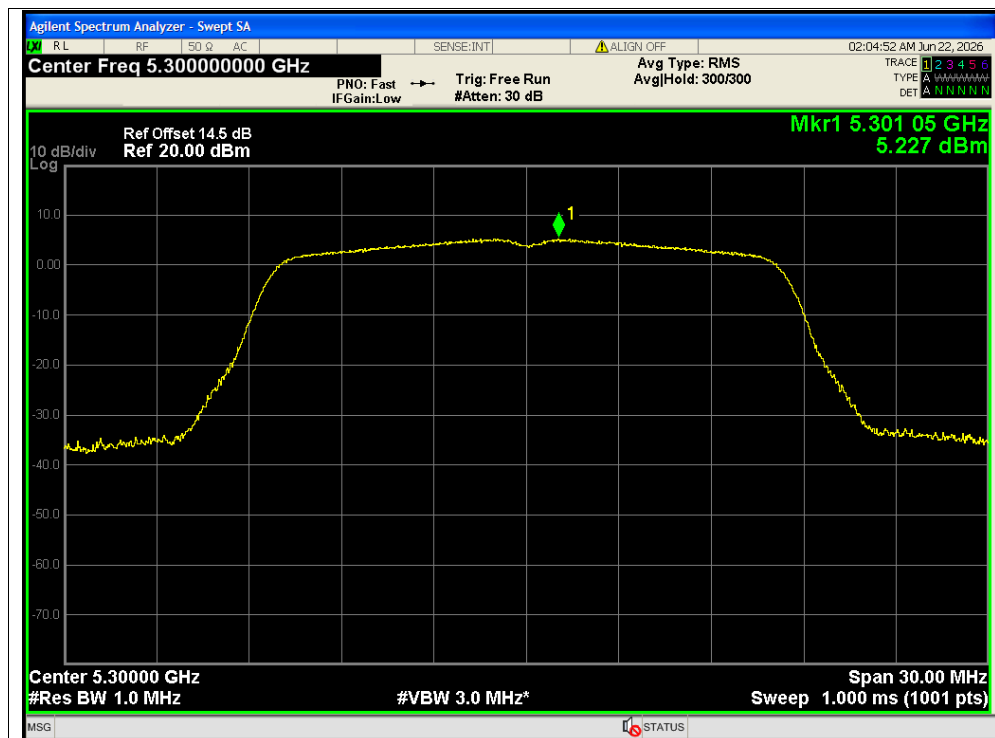
PSD NVNT a 5220MHz Ant1



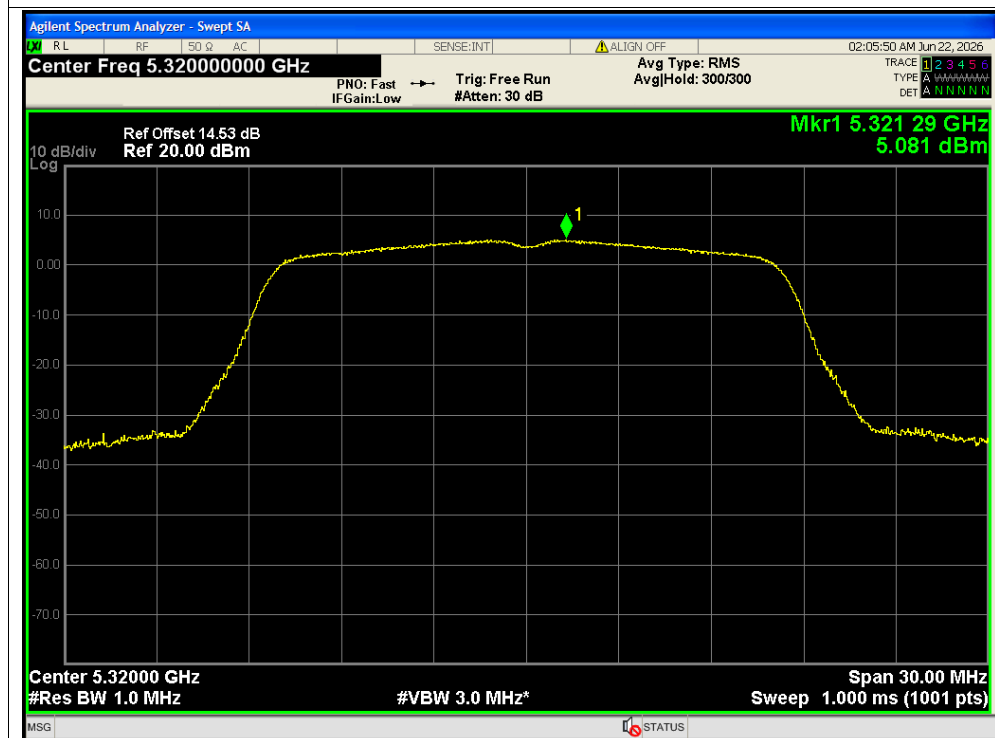
PSD NVNT a 5240MHz Ant1



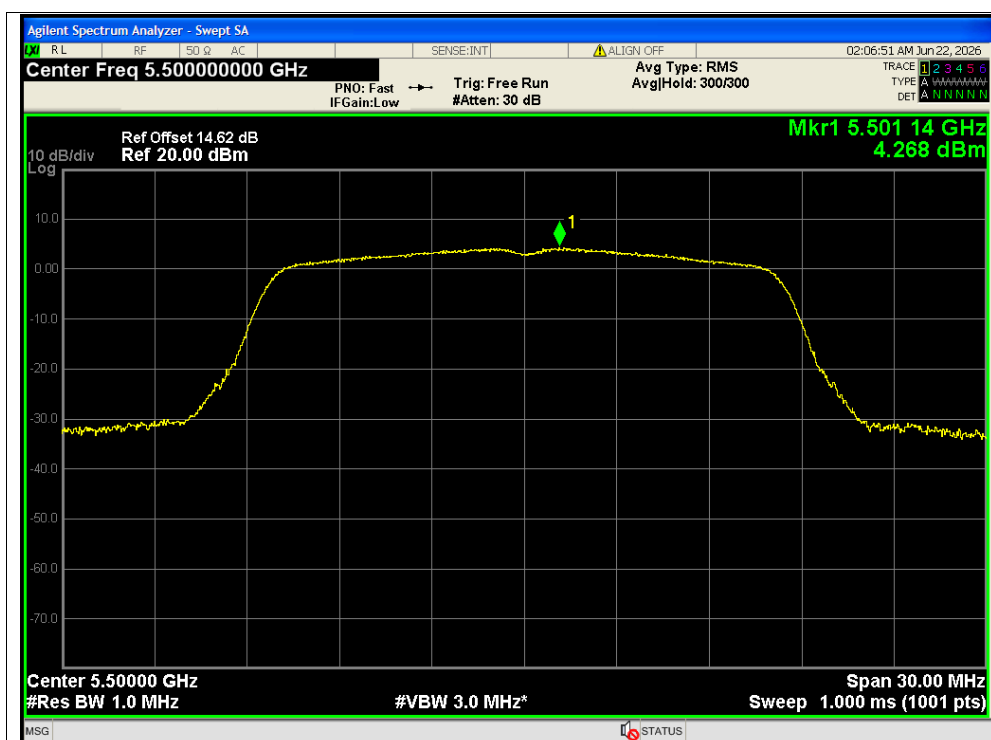
PSD NVNT a 5260MHz Ant1



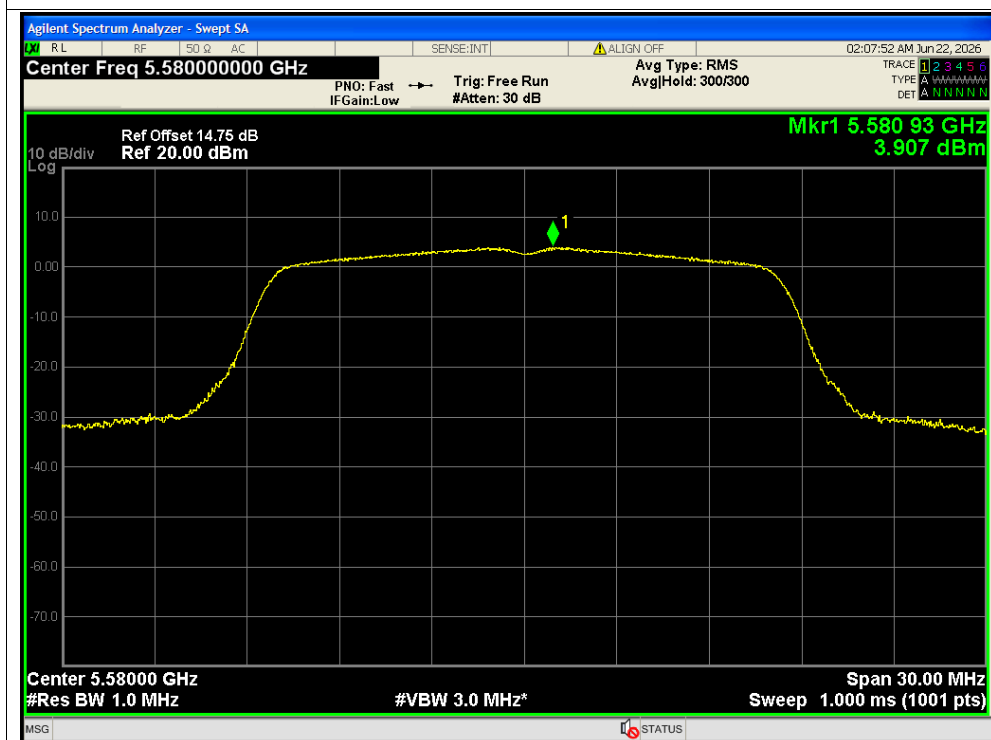
PSD NVNT a 5300MHz Ant1



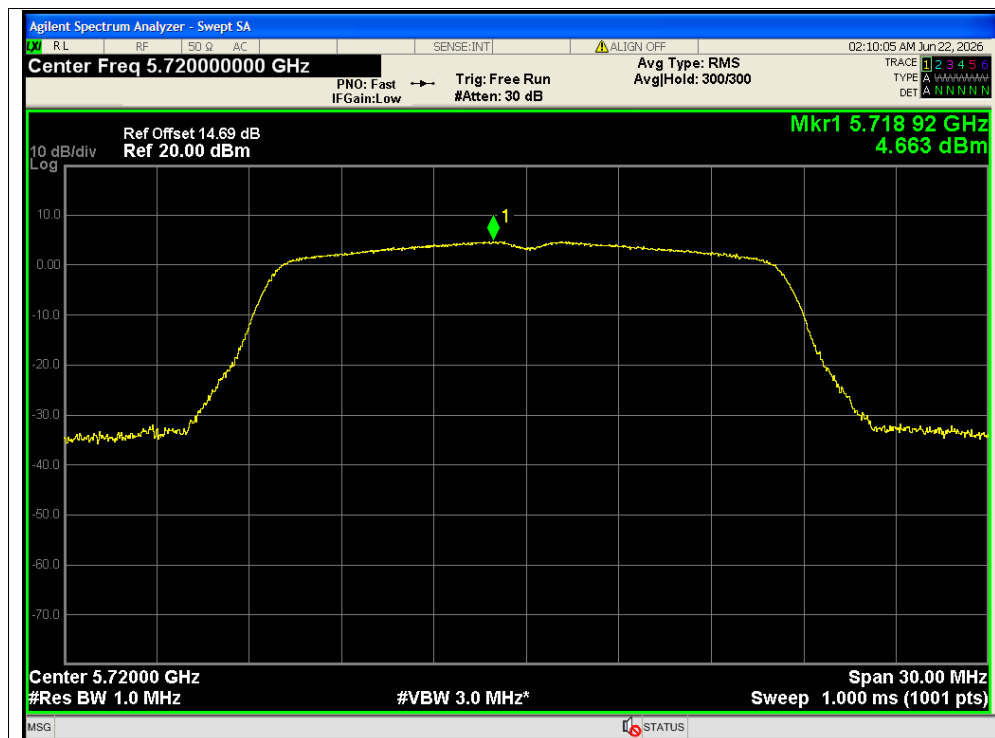
PSD NVNT a 5320MHz Ant1



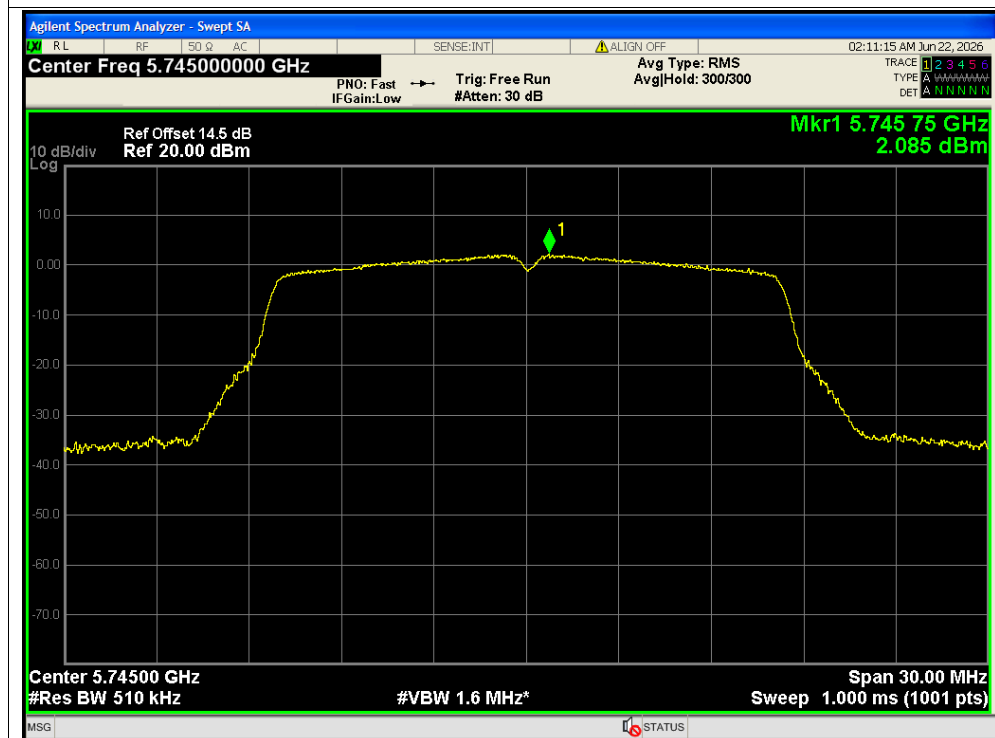
PSD NVNT a 5500MHz Ant1



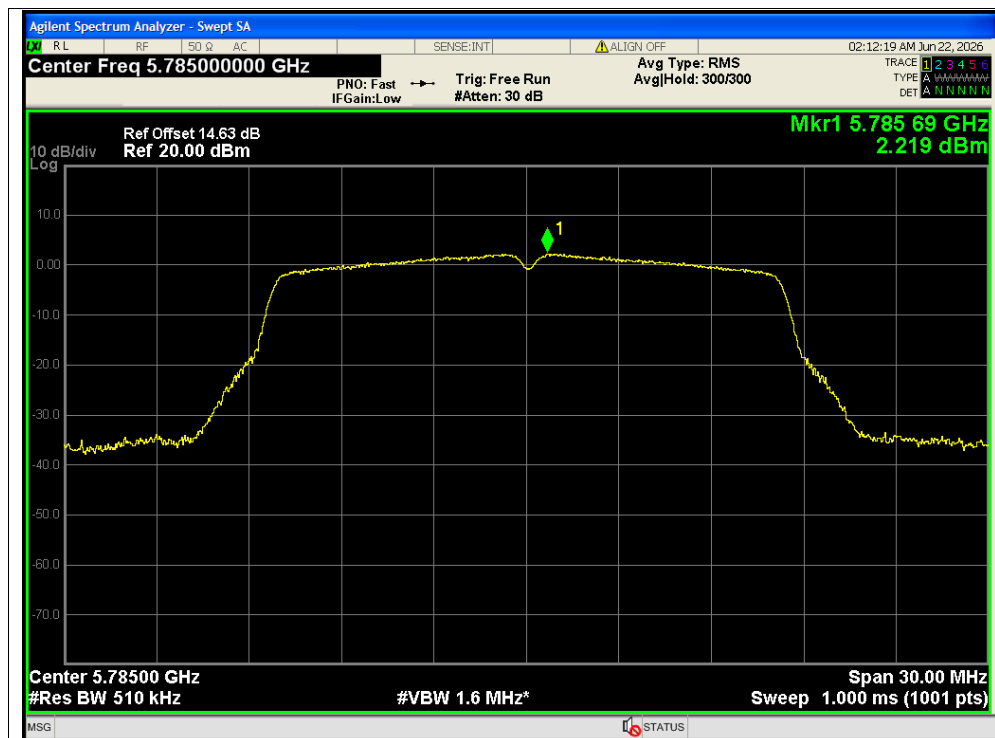
PSD NVNT a 5580MHz Ant1



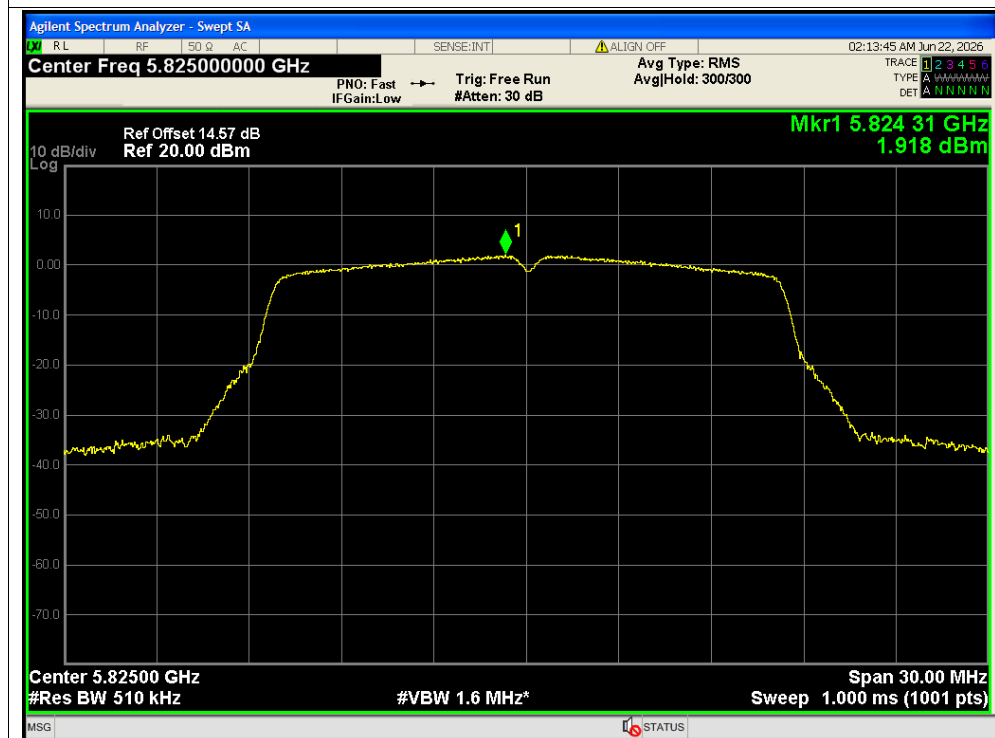
PSD NVNT a 5720MHz Ant1



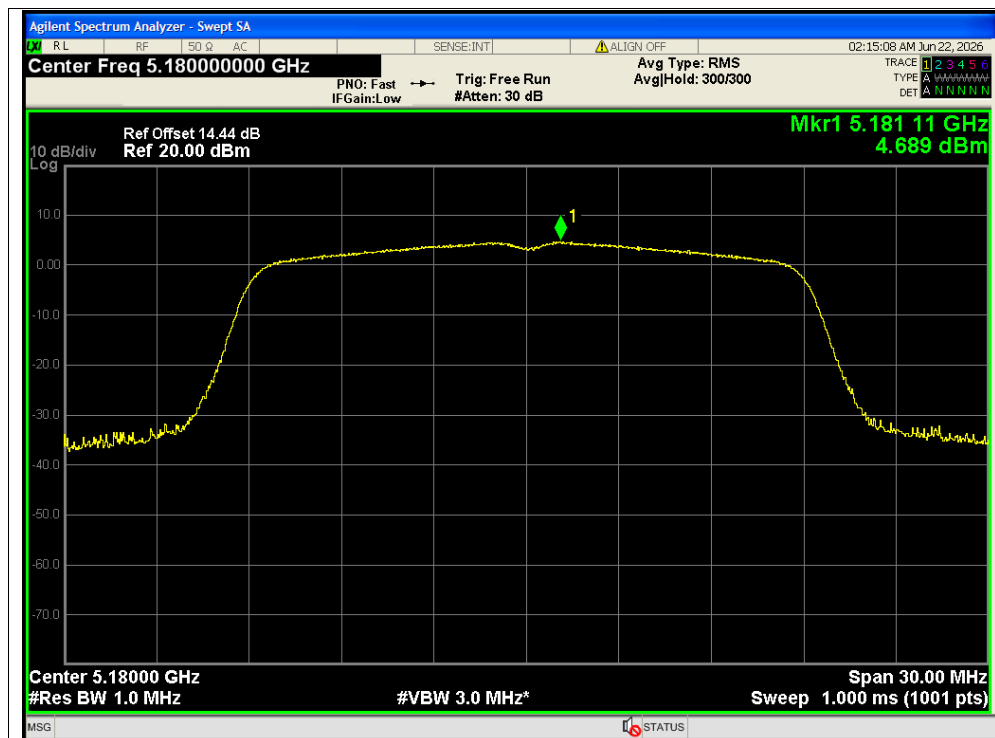
PSD NVNT a 5745MHz Ant1



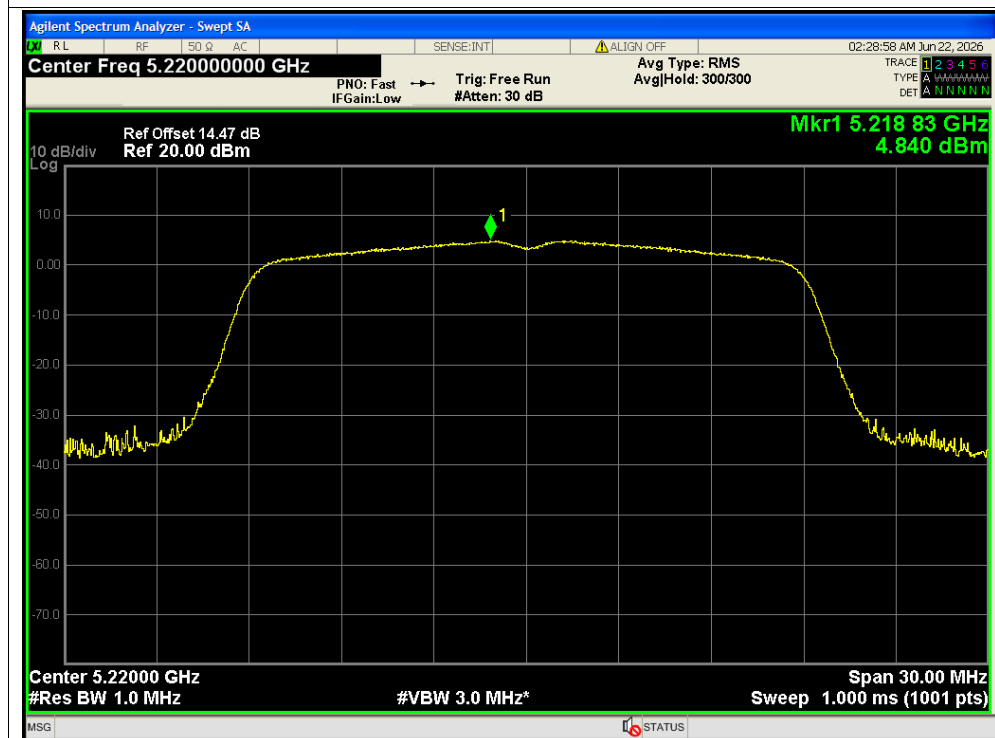
PSD NVNT a 5785MHz Ant1



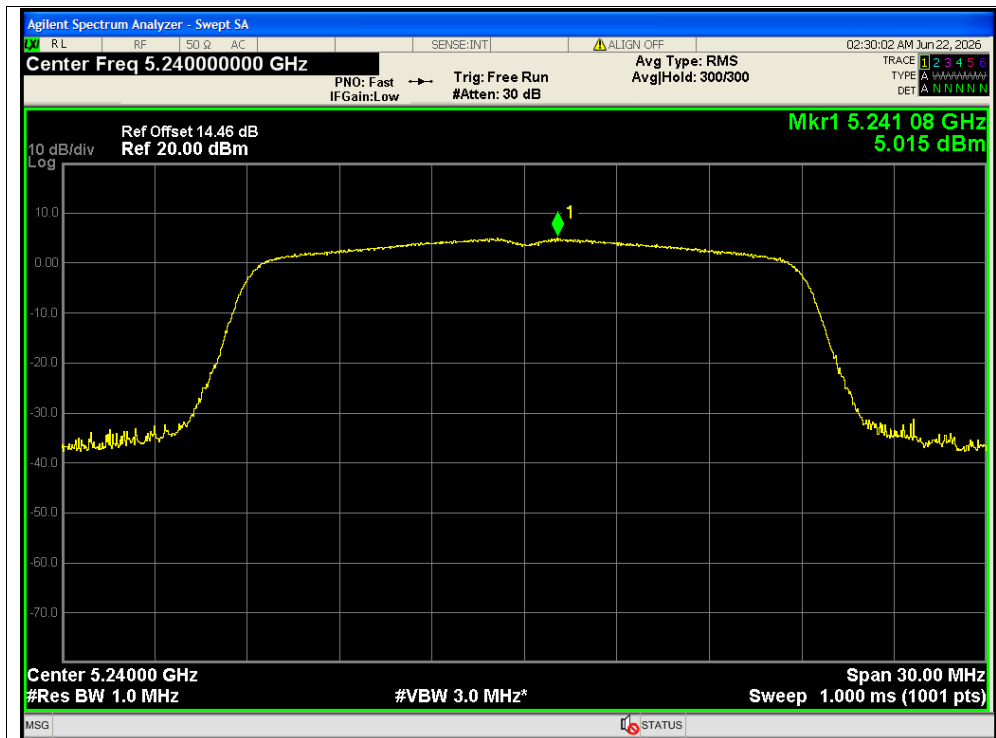
PSD NVNT a 5825MHz Ant1



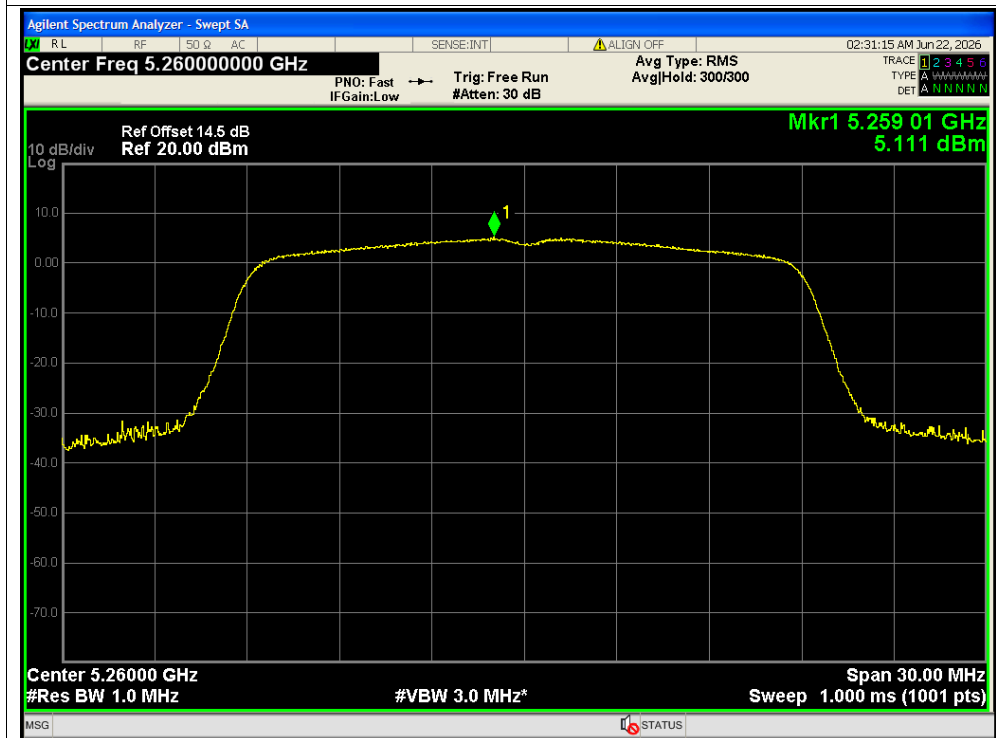
PSD NVNT n20 5180MHz Ant1



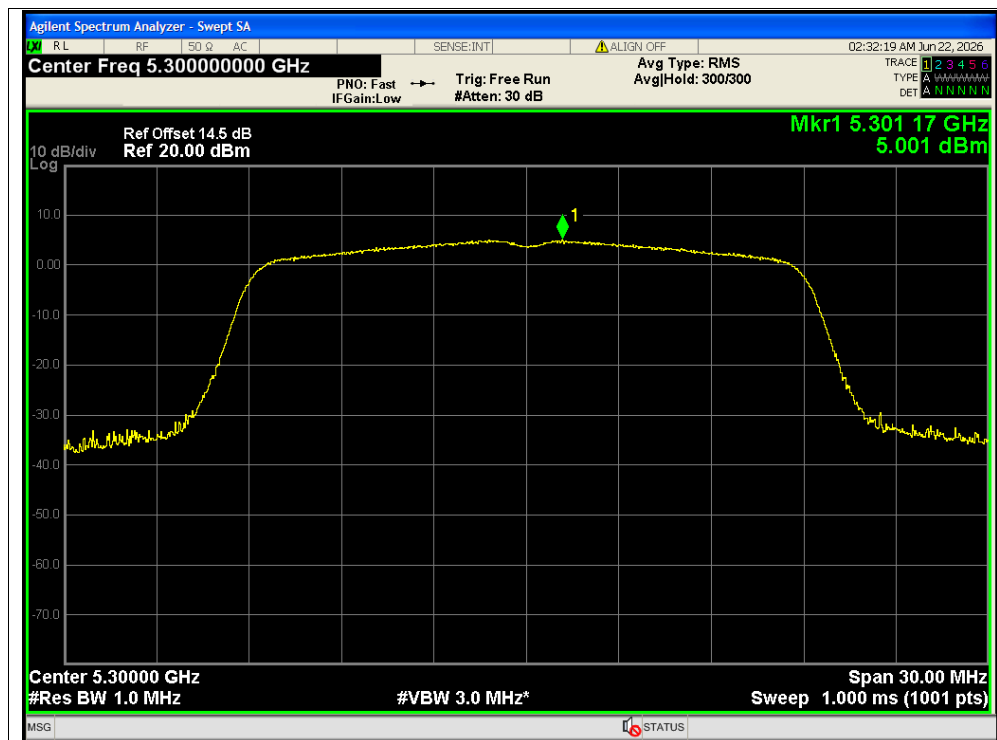
PSD NVNT n20 5220MHz Ant1



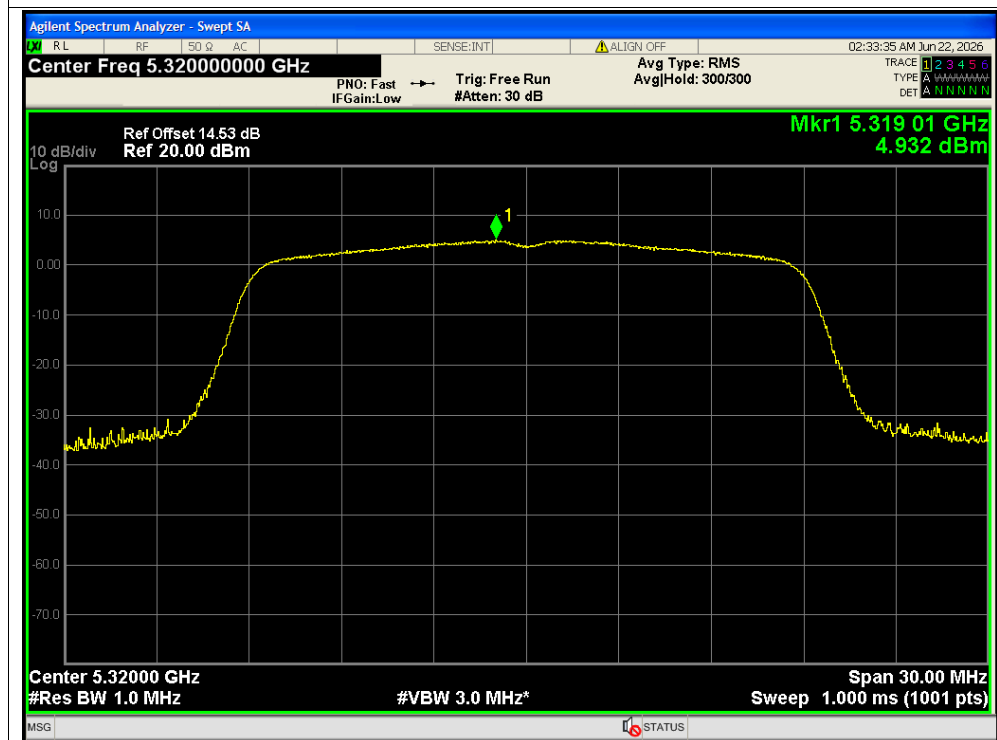
PSD NVNT n20 5240MHz Ant1



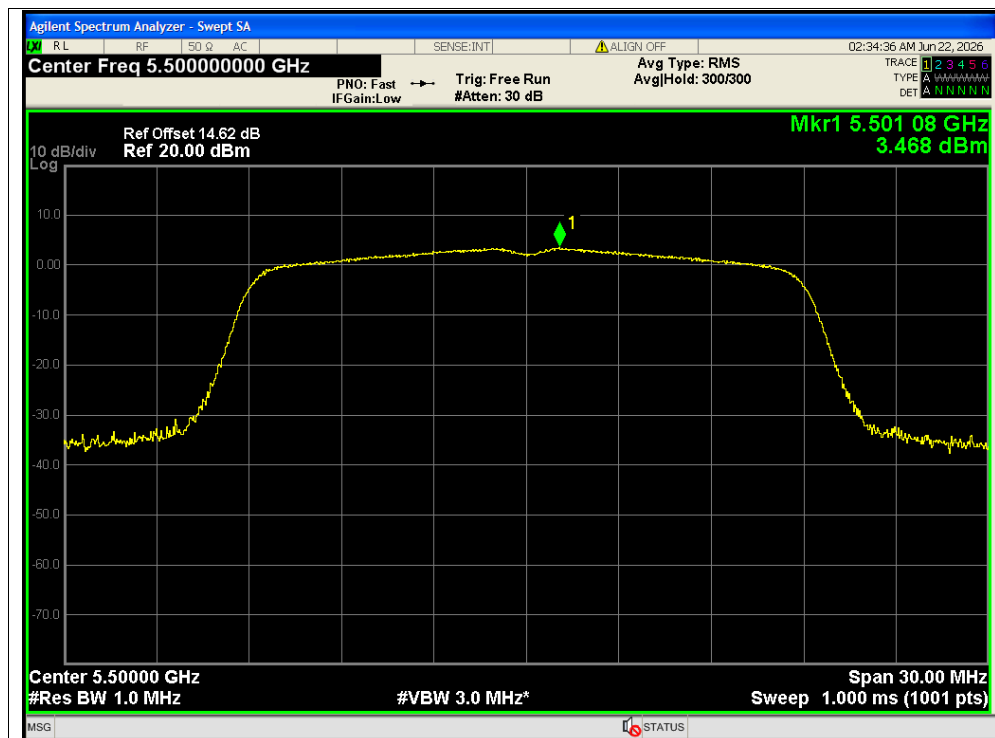
PSD NVNT n20 5260MHz Ant1



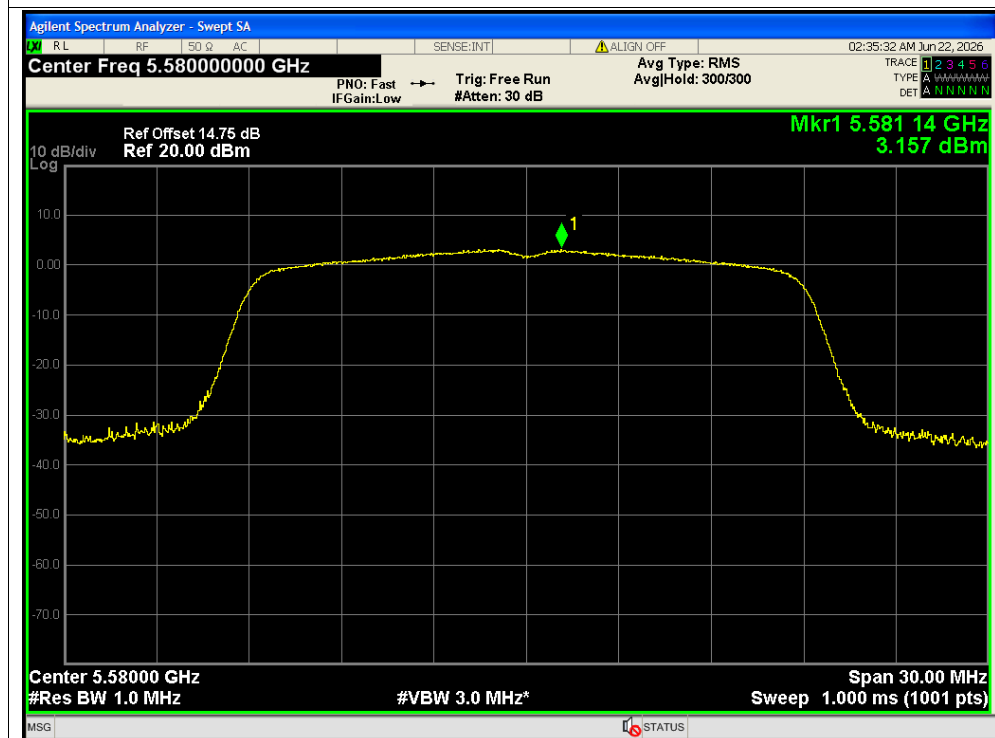
PSD NVNT n20 5300MHz Ant1



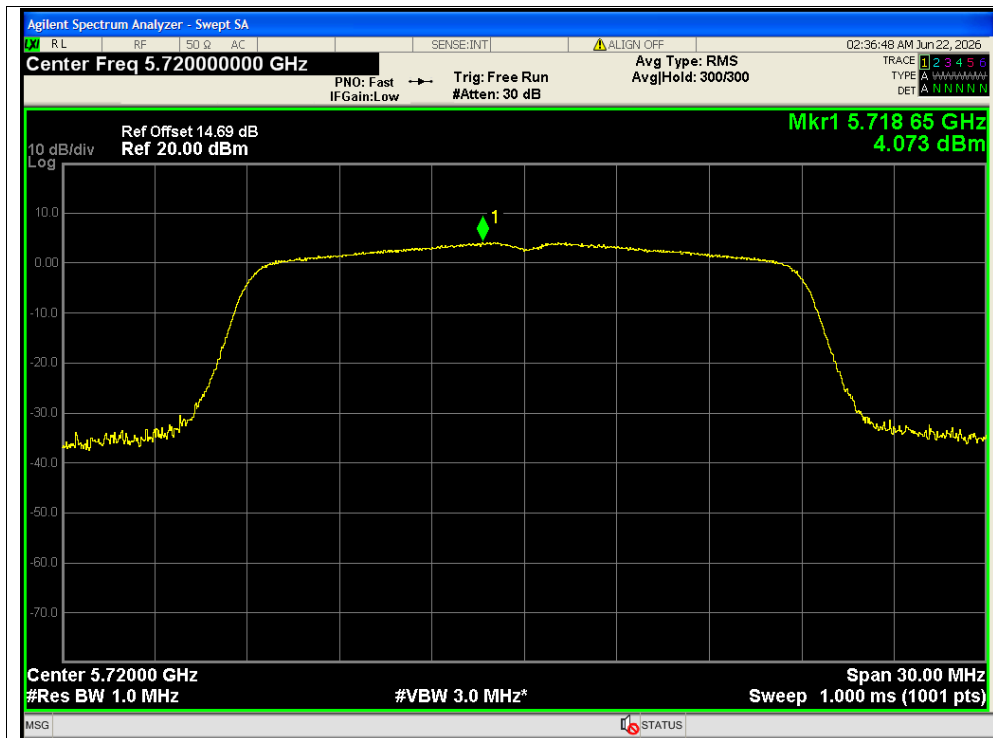
PSD NVNT n20 5320MHz Ant1



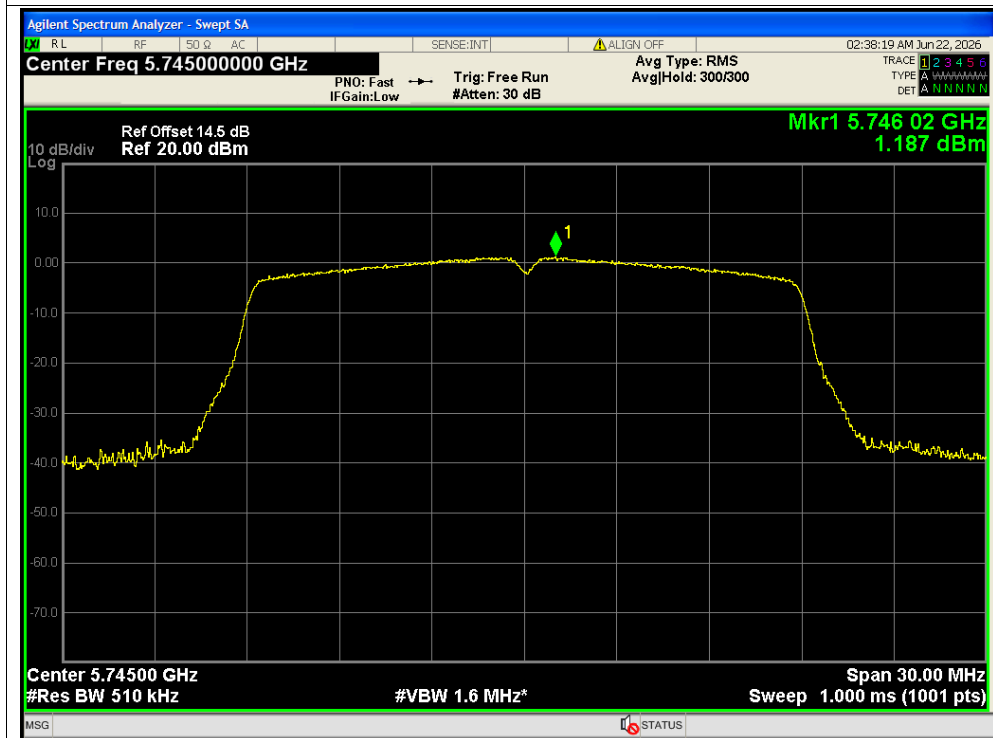
PSD NVNT n20 5500MHz Ant1



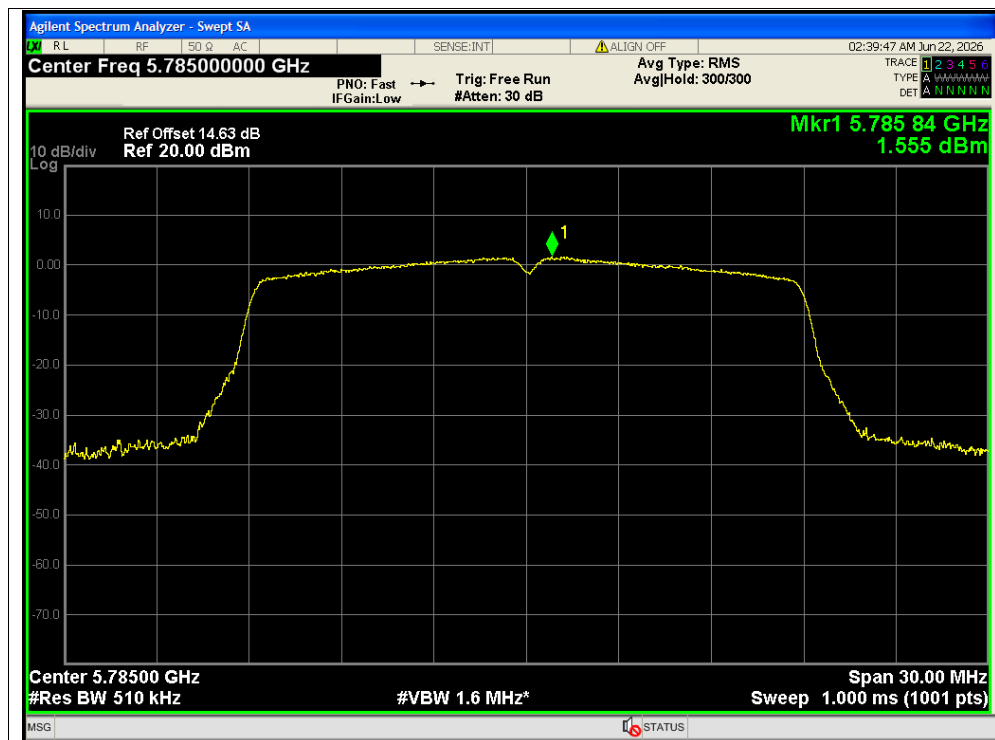
PSD NVNT n20 5580MHz Ant1



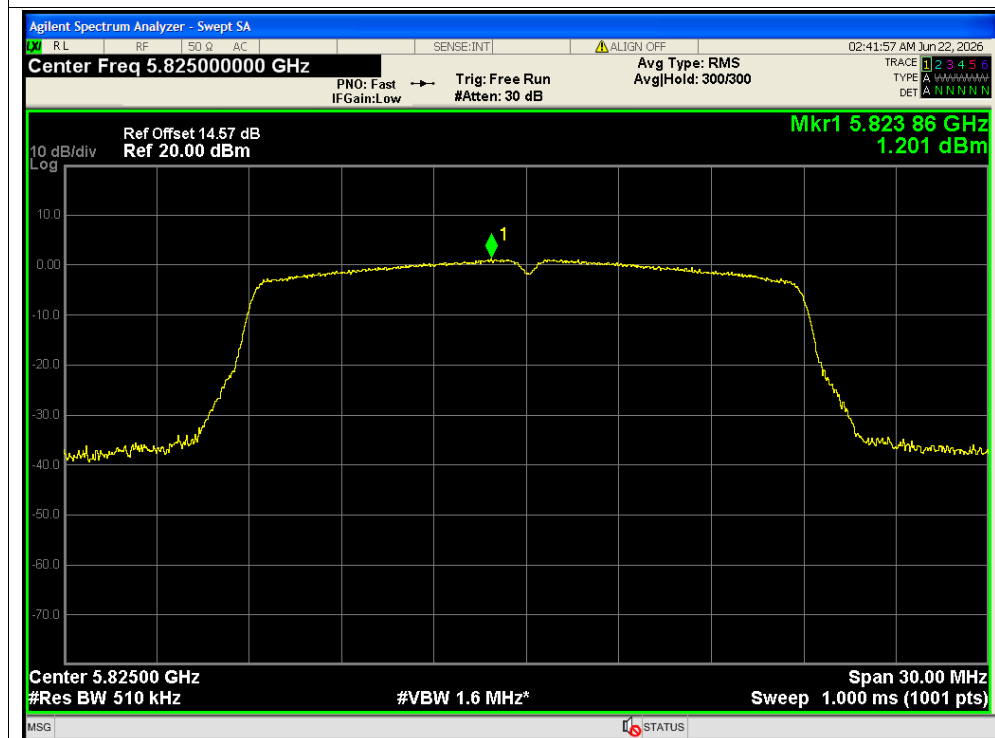
PSD NVNT n20 5720MHz Ant1



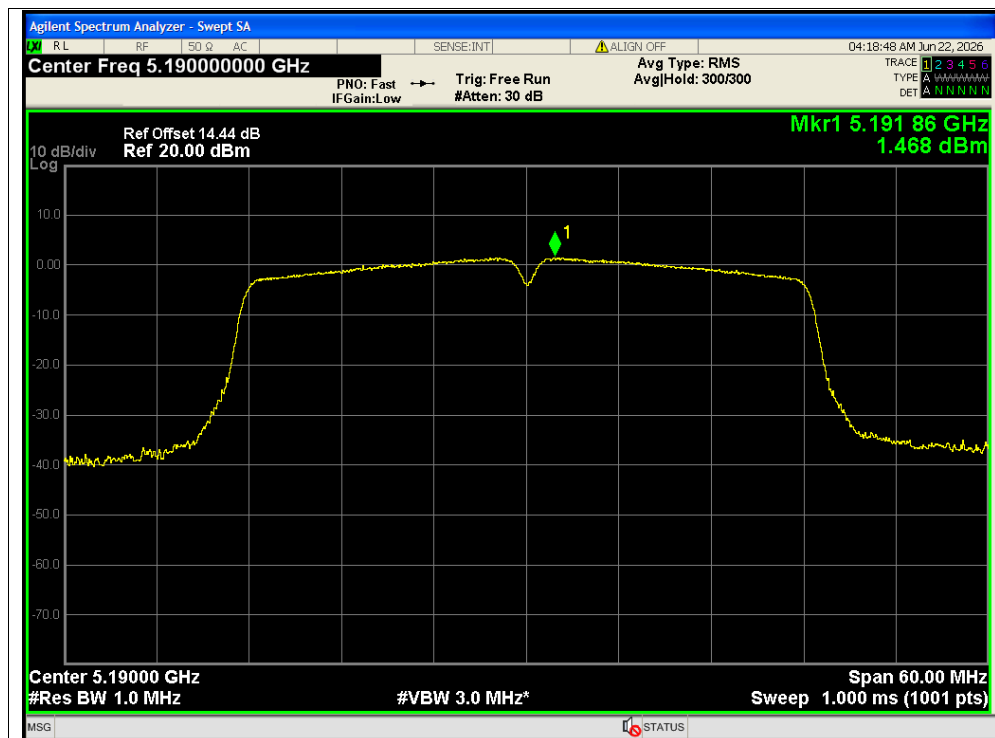
PSD NVNT n20 5745MHz Ant1



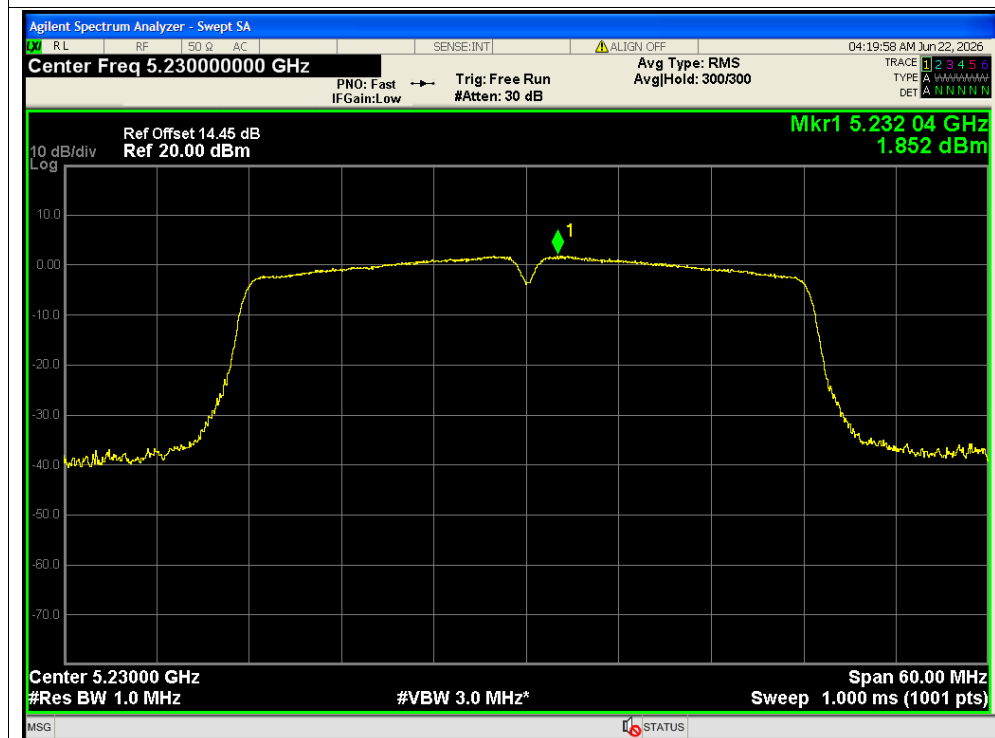
PSD NVNT n20 5785MHz Ant1



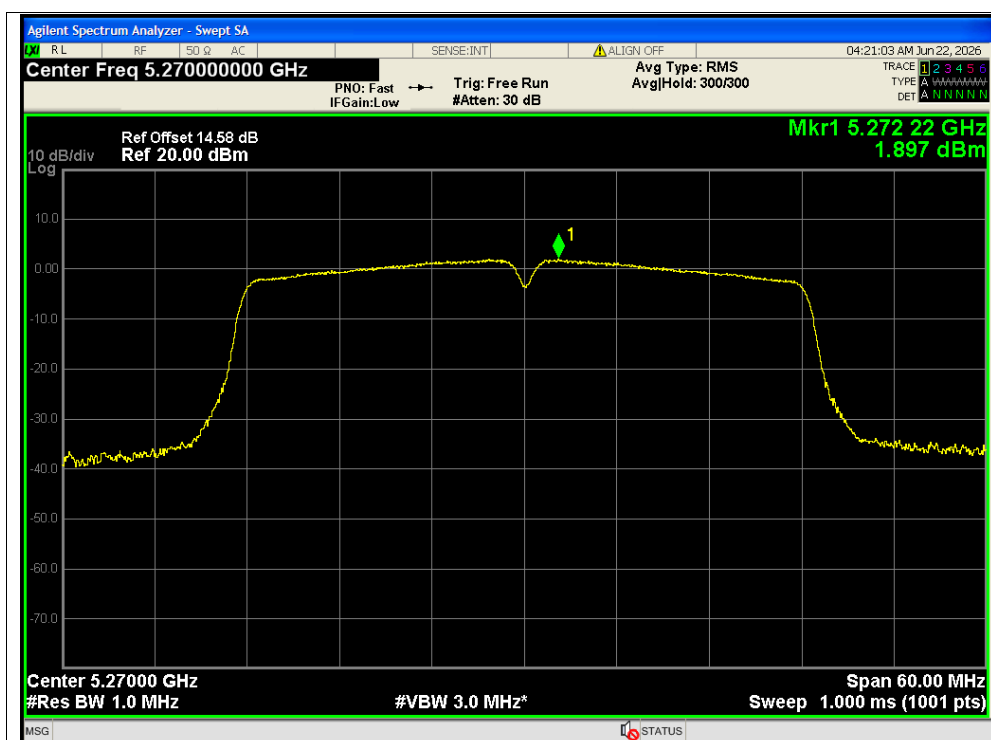
PSD NVNT n20 5825MHz Ant1



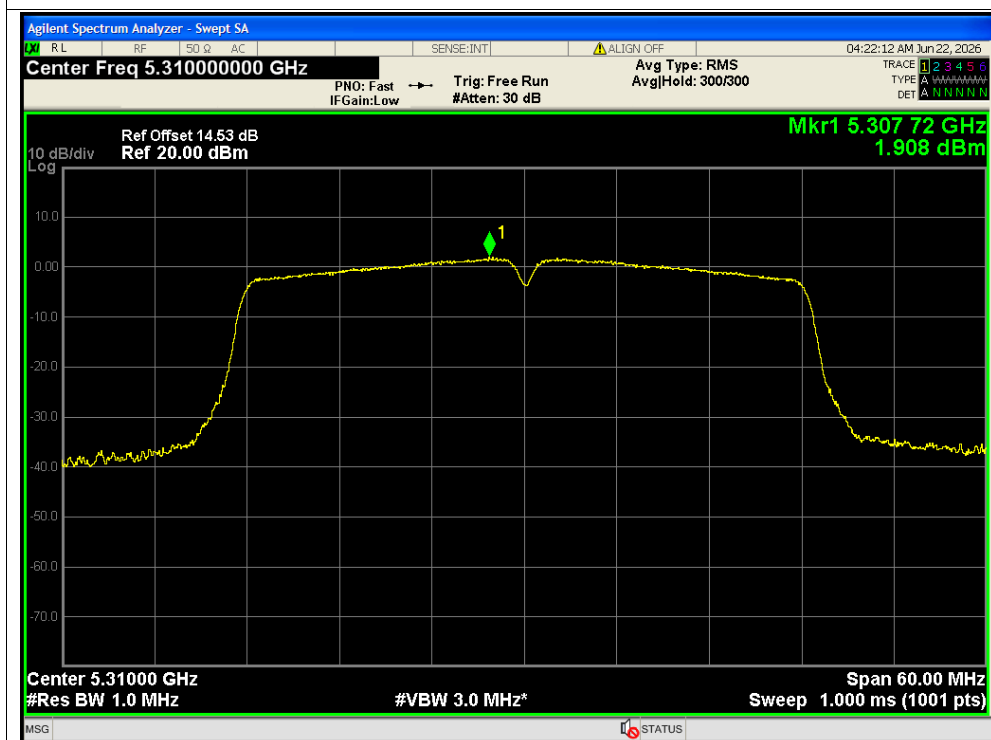
PSD NVNT n40 5190MHz Ant1



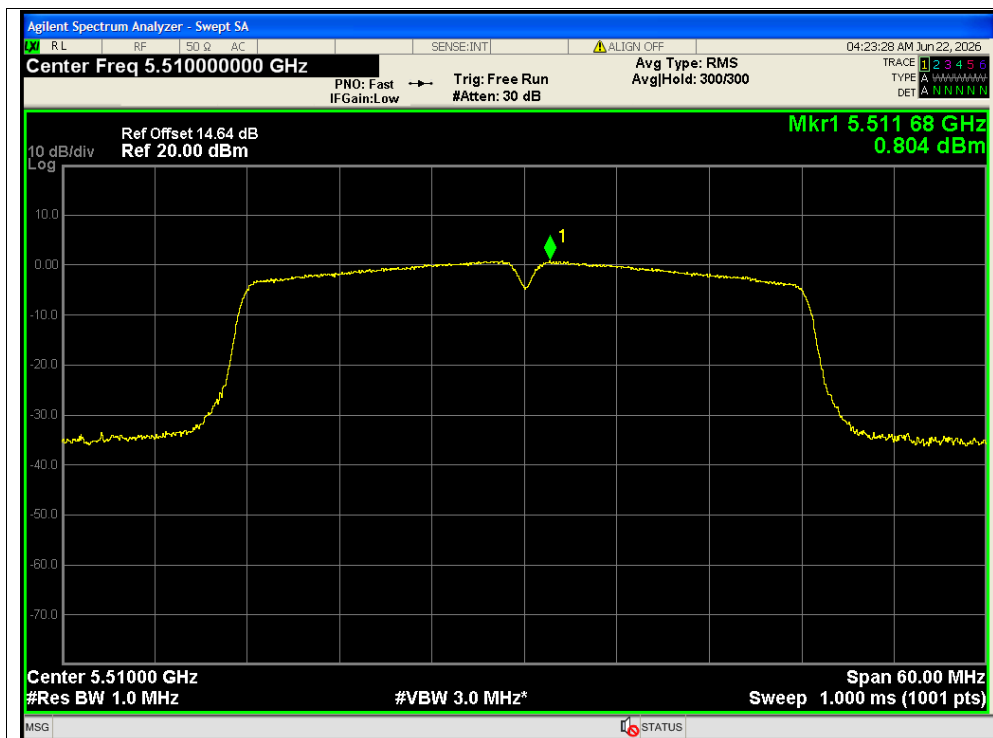
PSD NVNT n40 5230MHz Ant1



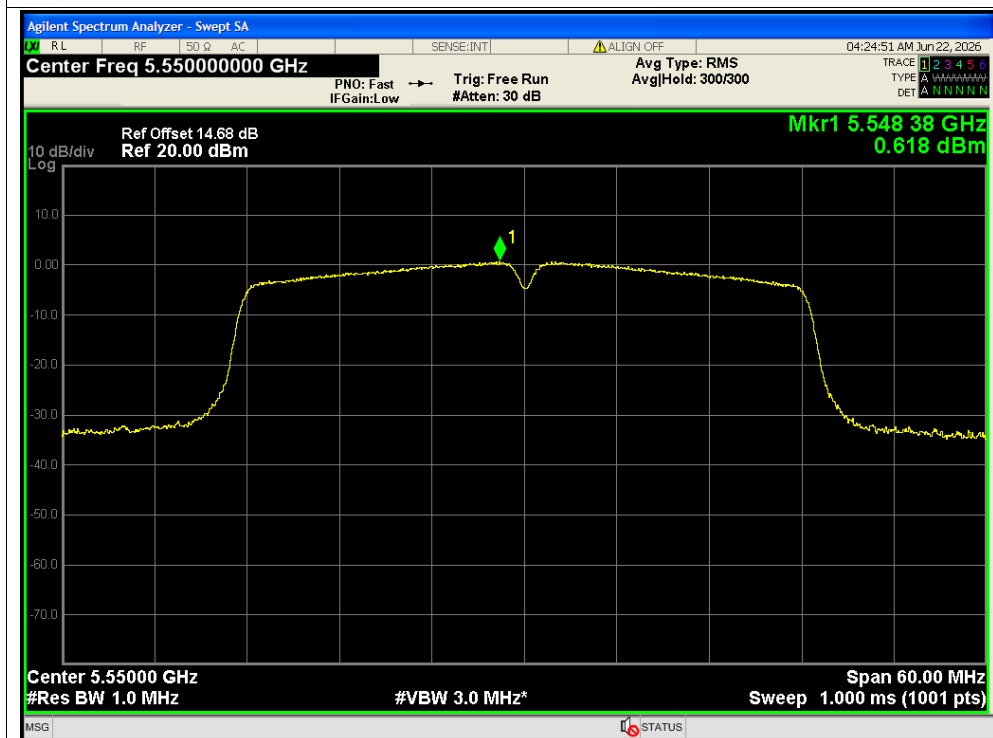
PSD NVNT n40 5270MHz Ant1



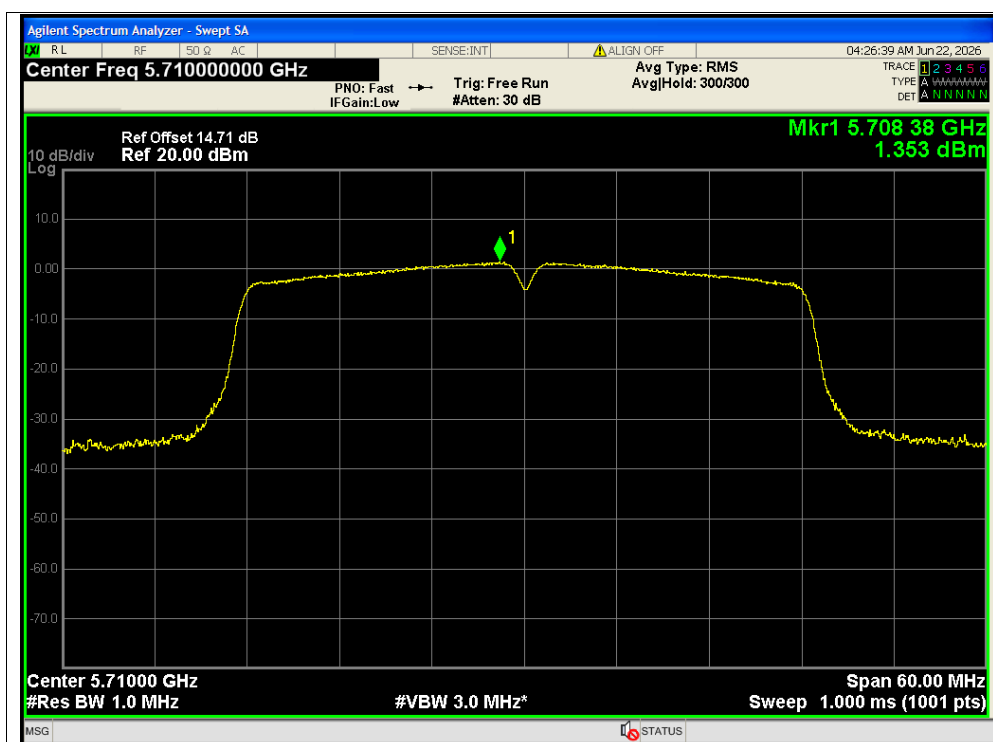
PSD NVNT n40 5310MHz Ant1



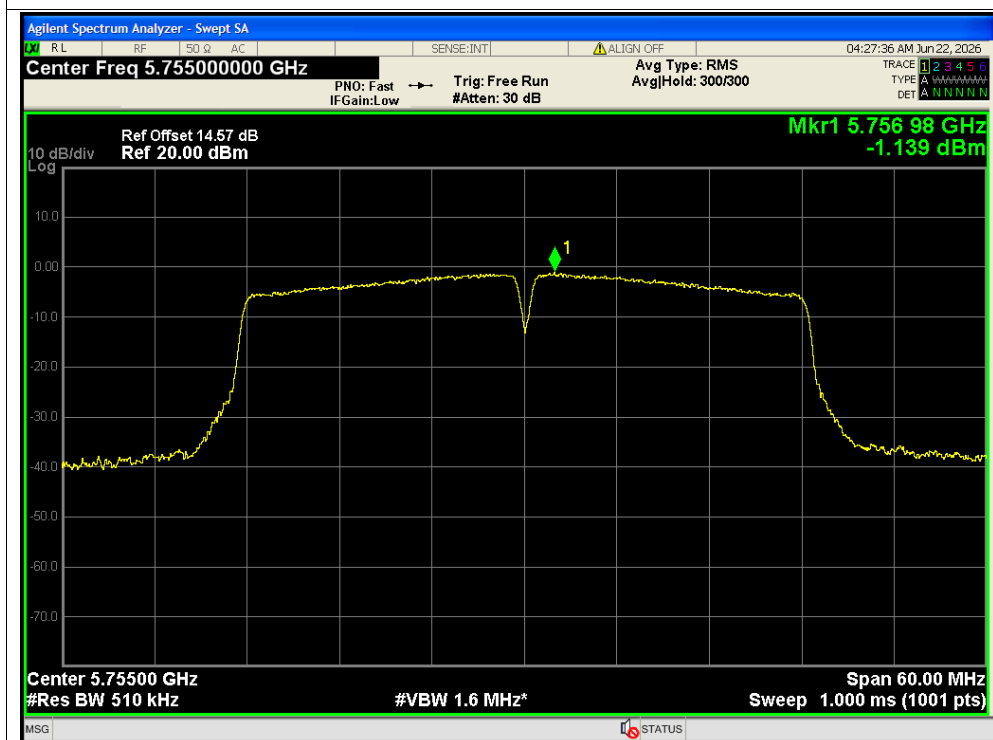
PSD NVNT n40 5510MHz Ant1



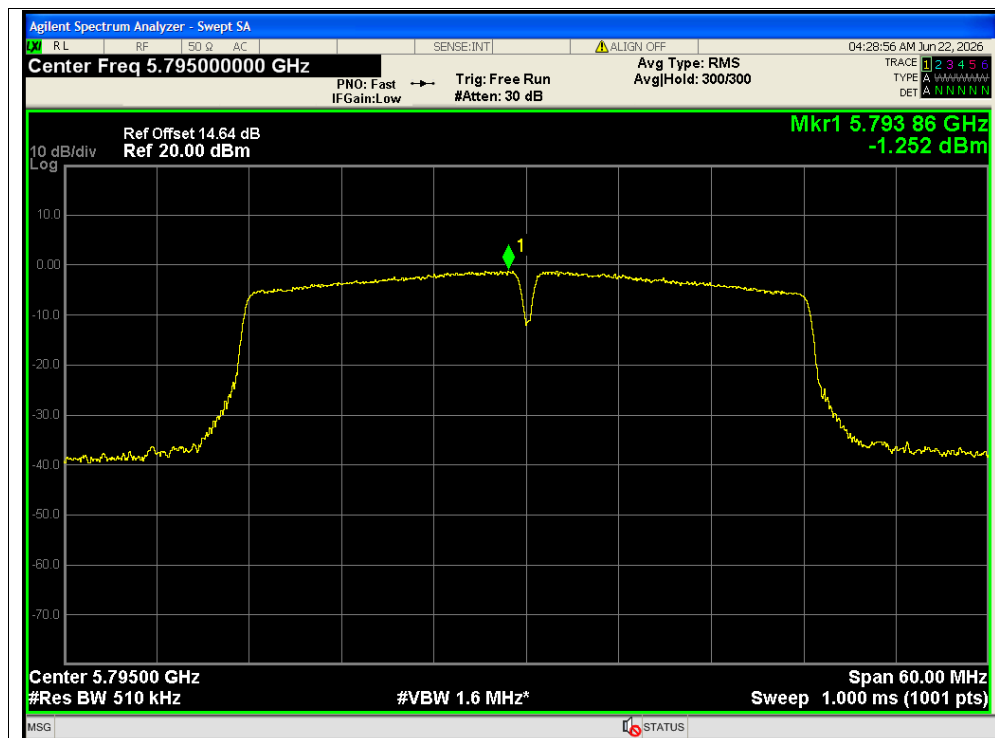
PSD NVNT n40 5550MHz Ant1



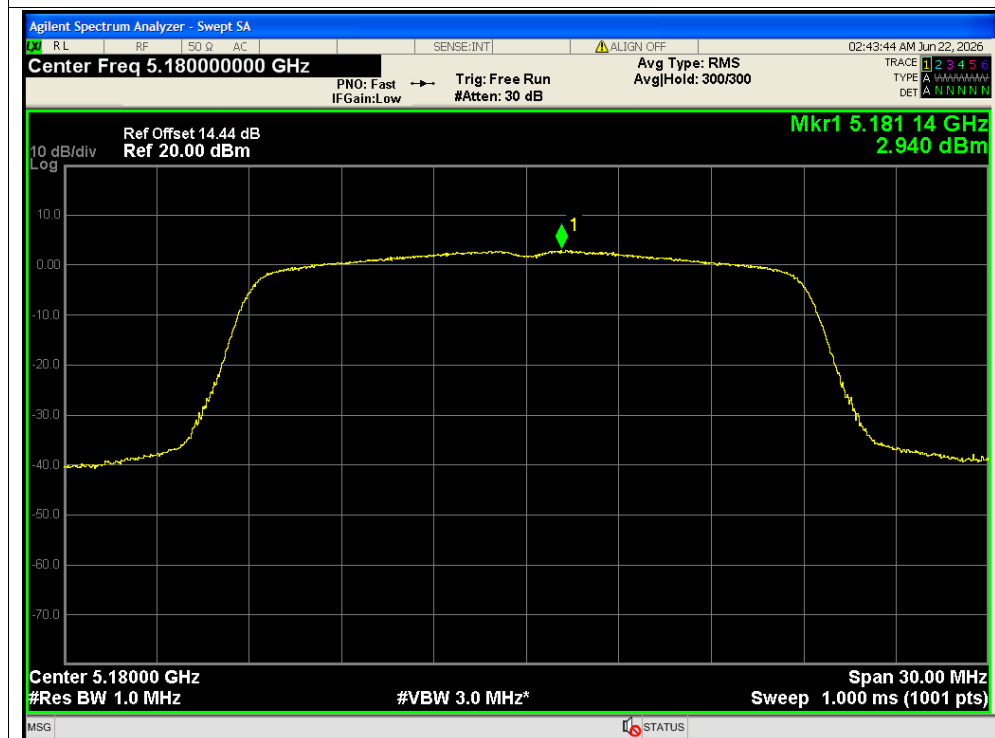
PSD NVNT n40 5710MHz Ant1



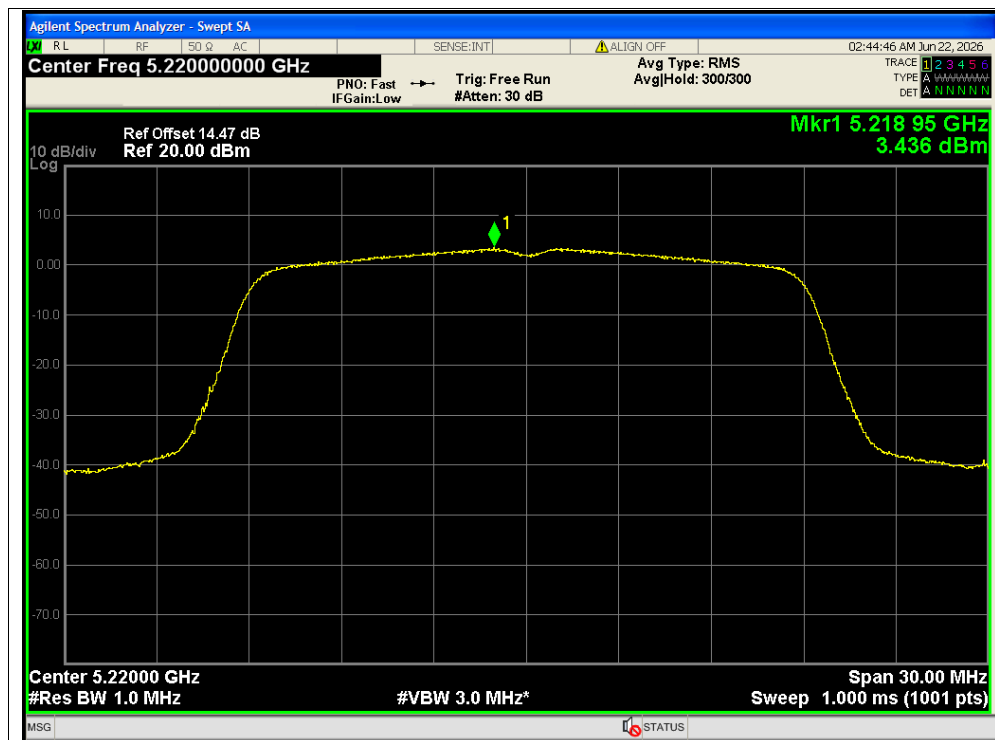
PSD NVNT n40 5755MHz Ant1



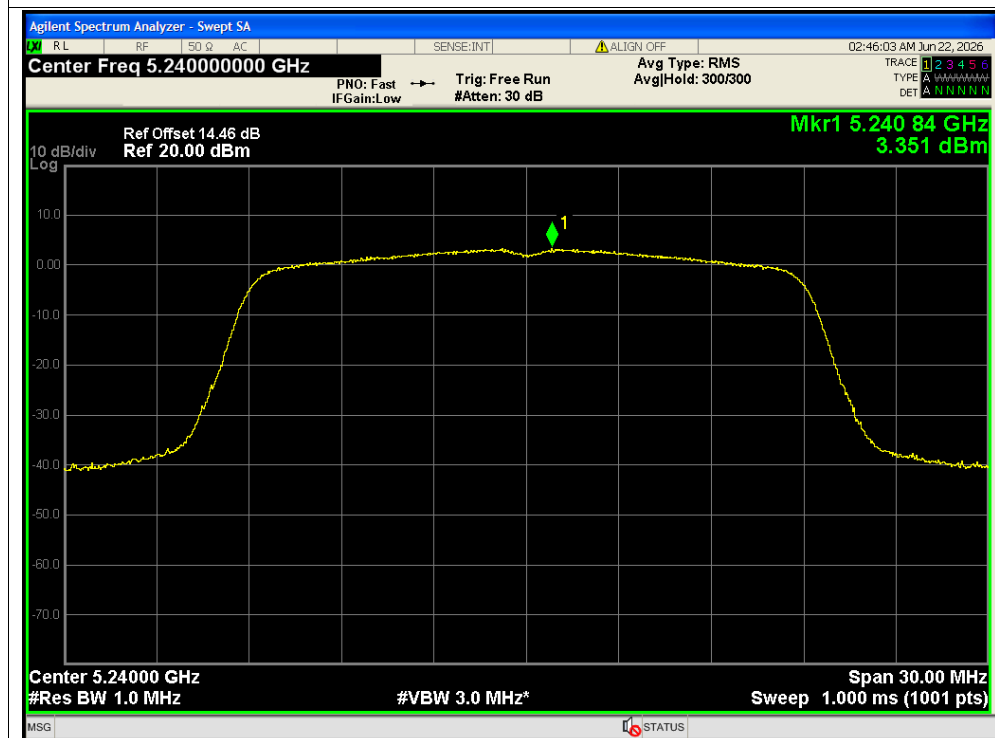
PSD NVNT n40 5795MHz Ant1



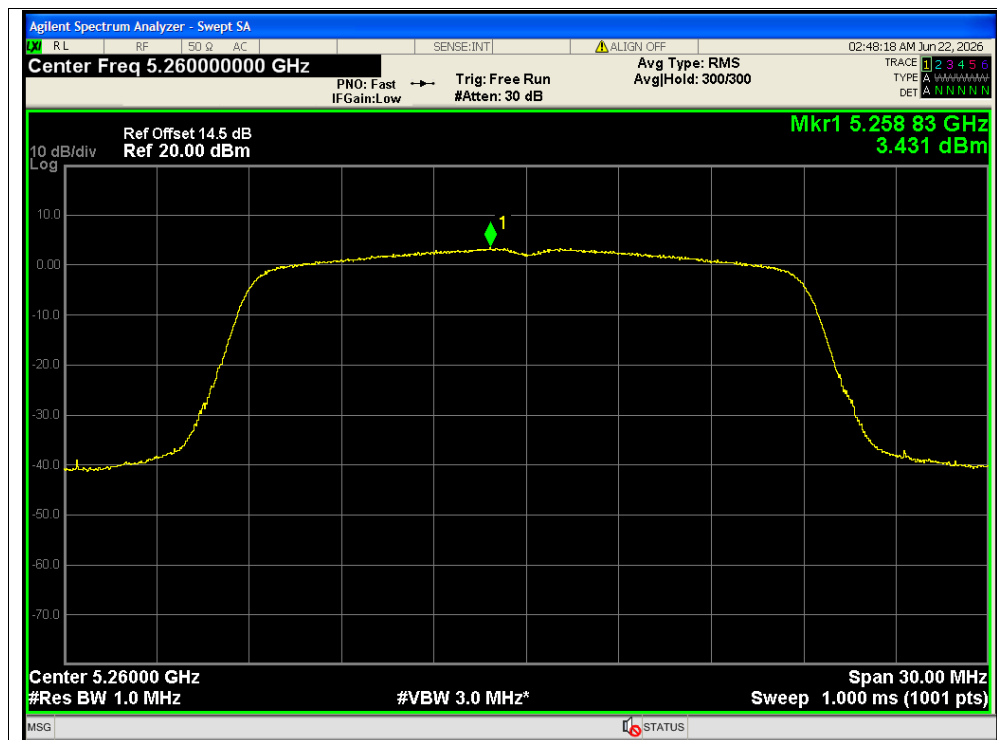
PSD NVNT ac20 5180MHz Ant1



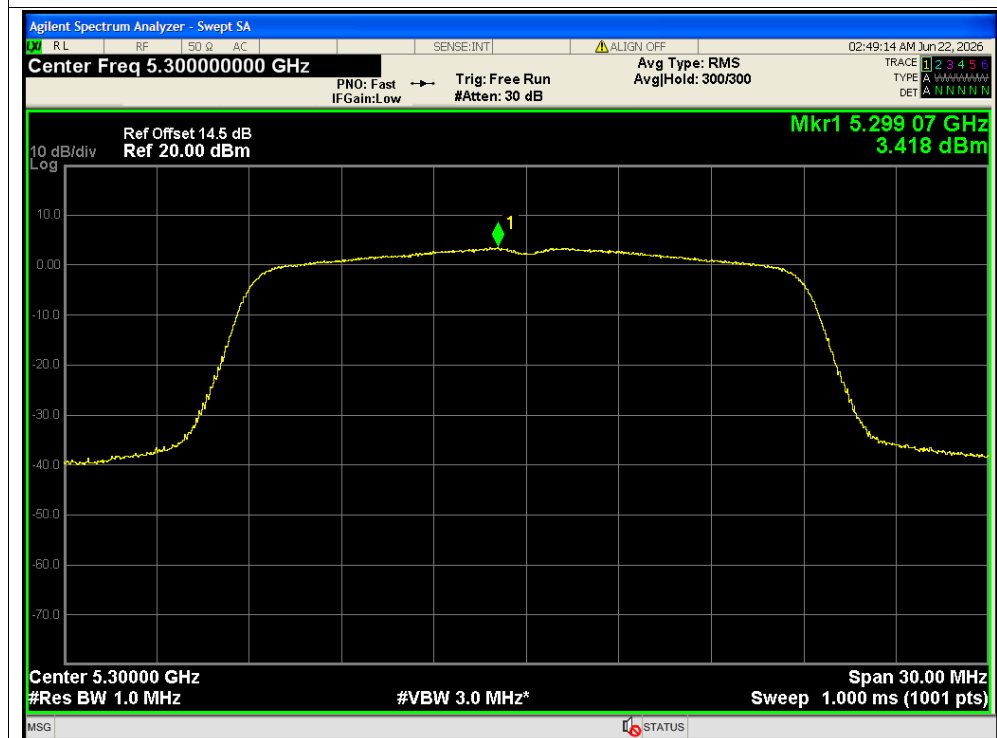
PSD NVNT ac20 5220MHz Ant1



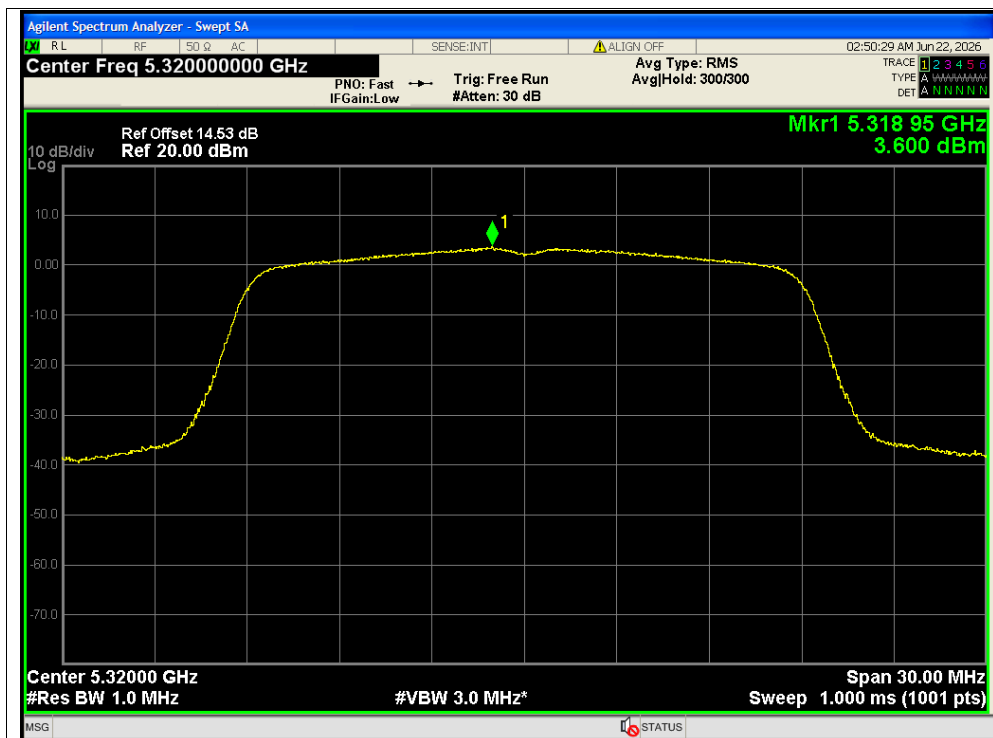
PSD NVNT ac20 5240MHz Ant1



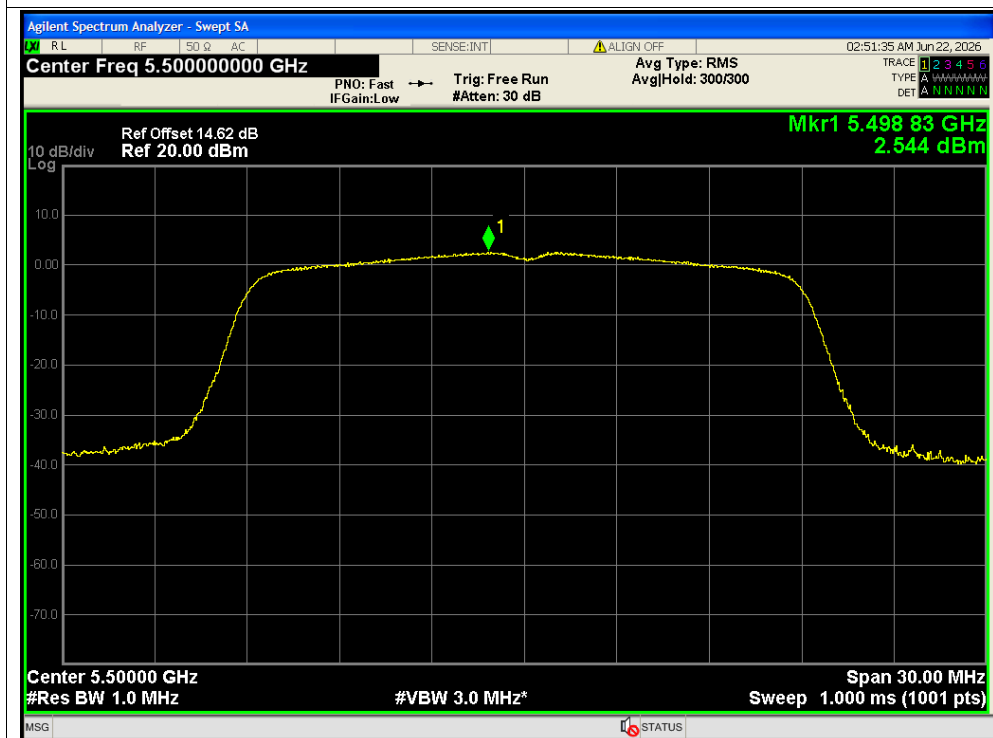
PSD NVNT ac20 5260MHz Ant1



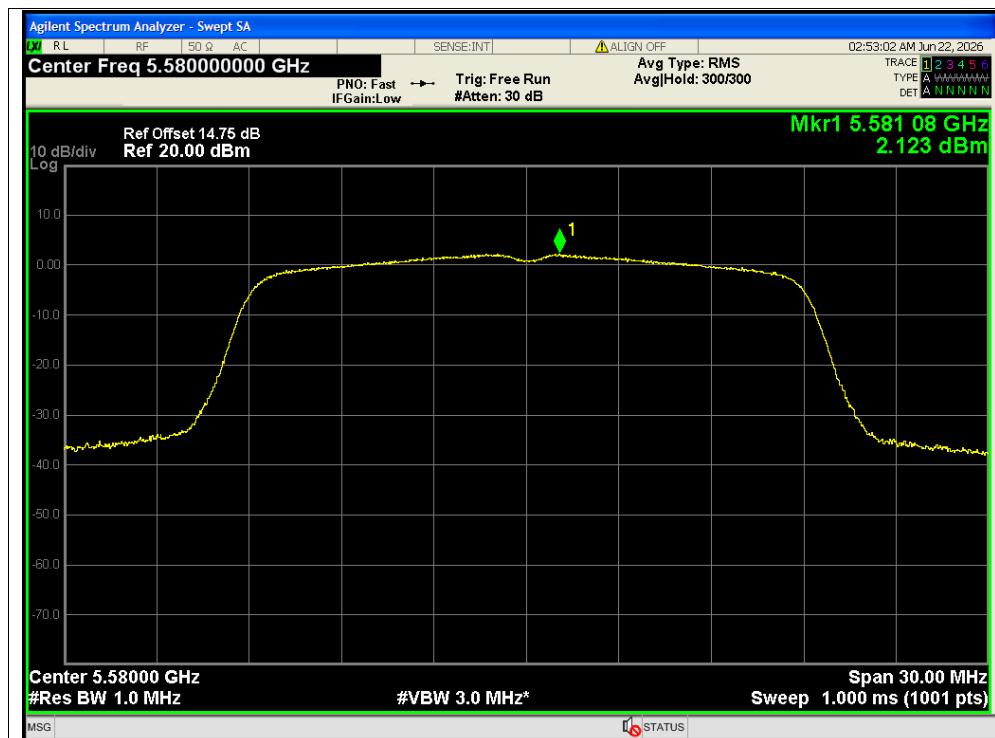
PSD NVNT ac20 5300MHz Ant1



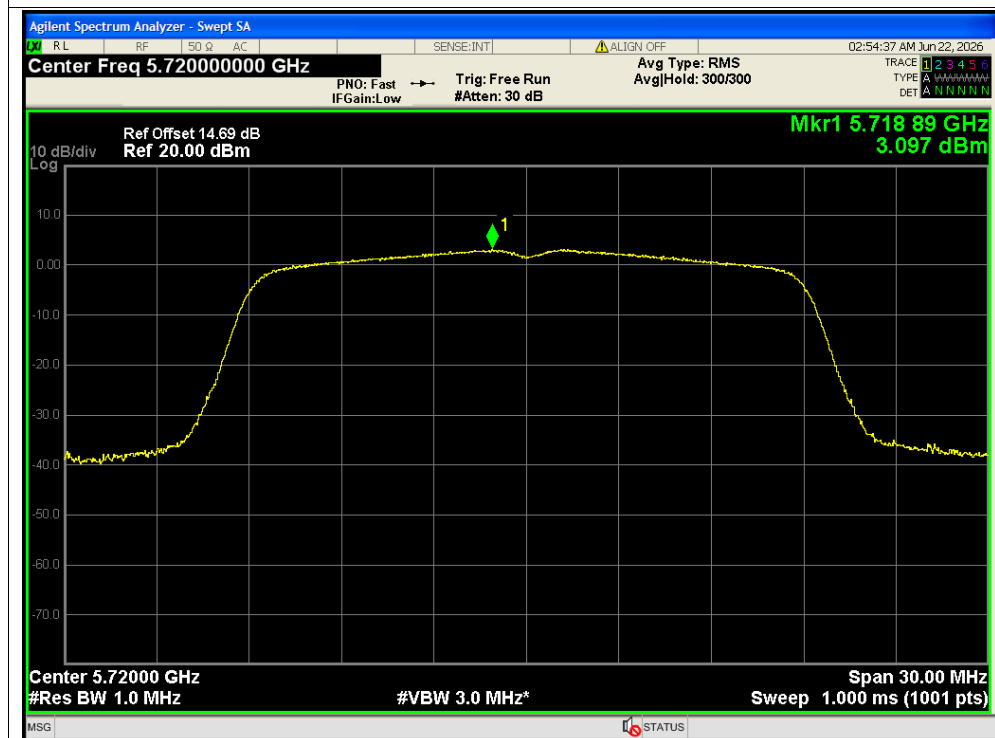
PSD NVNT ac20 5320MHz Ant1



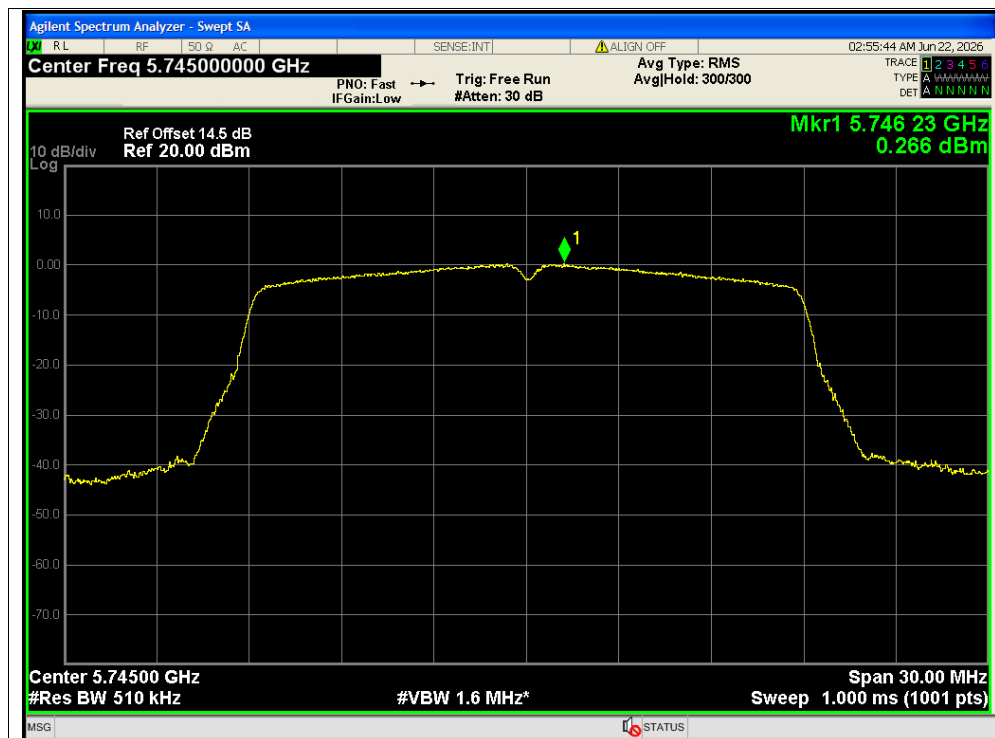
PSD NVNT ac20 5500MHz Ant1



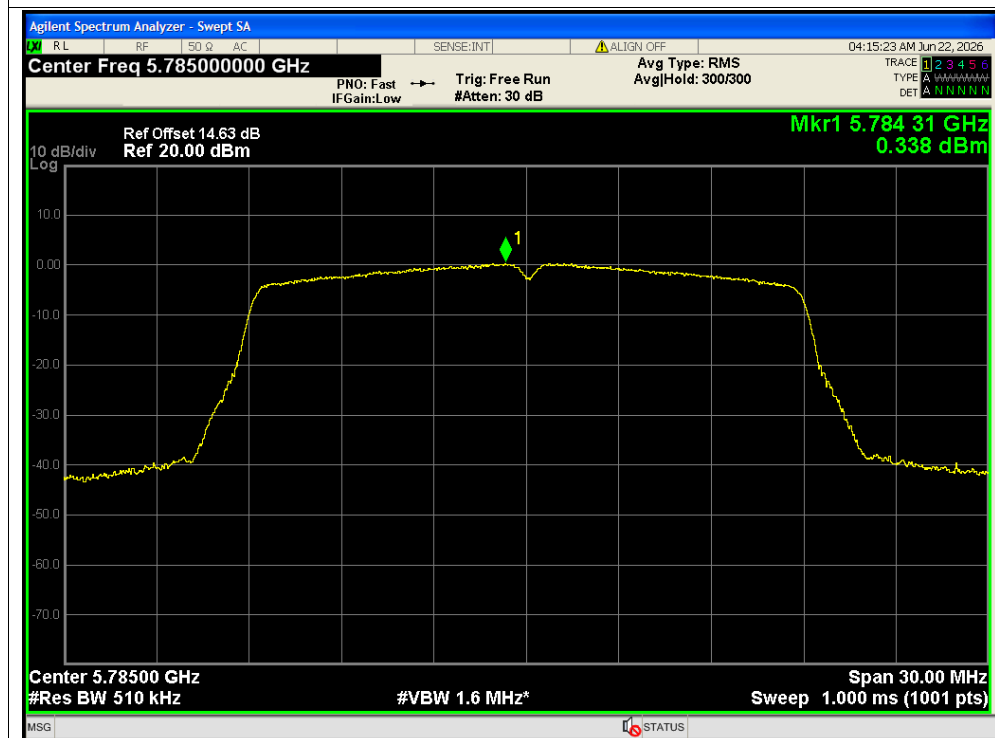
PSD NVNT ac20 5580MHz Ant1



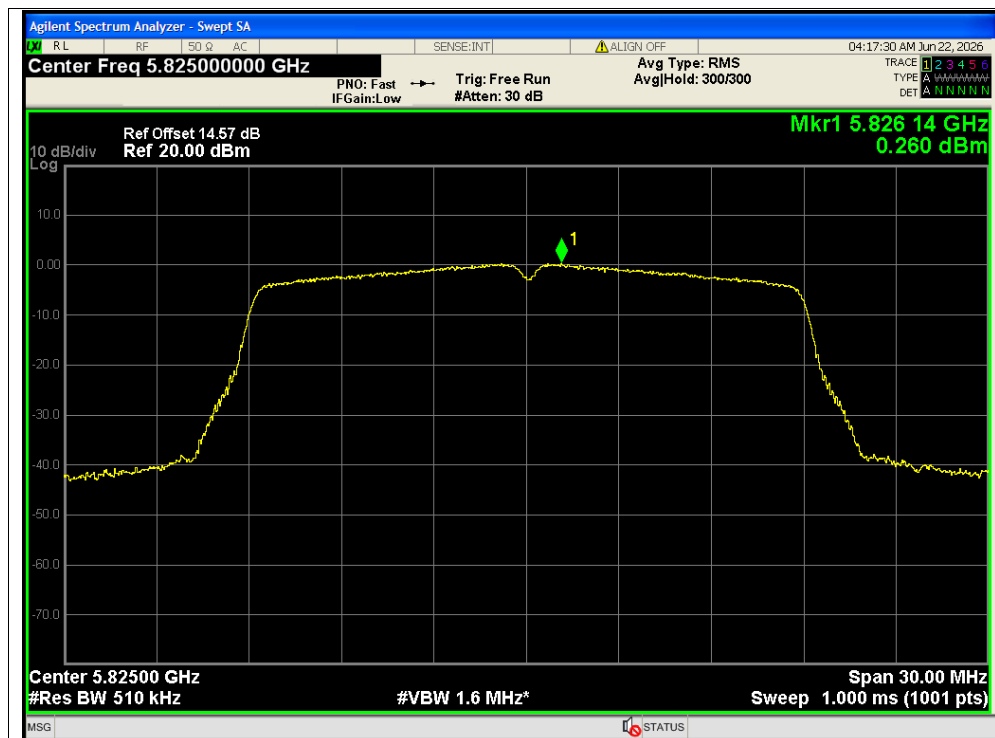
PSD NVNT ac20 5720MHz Ant1



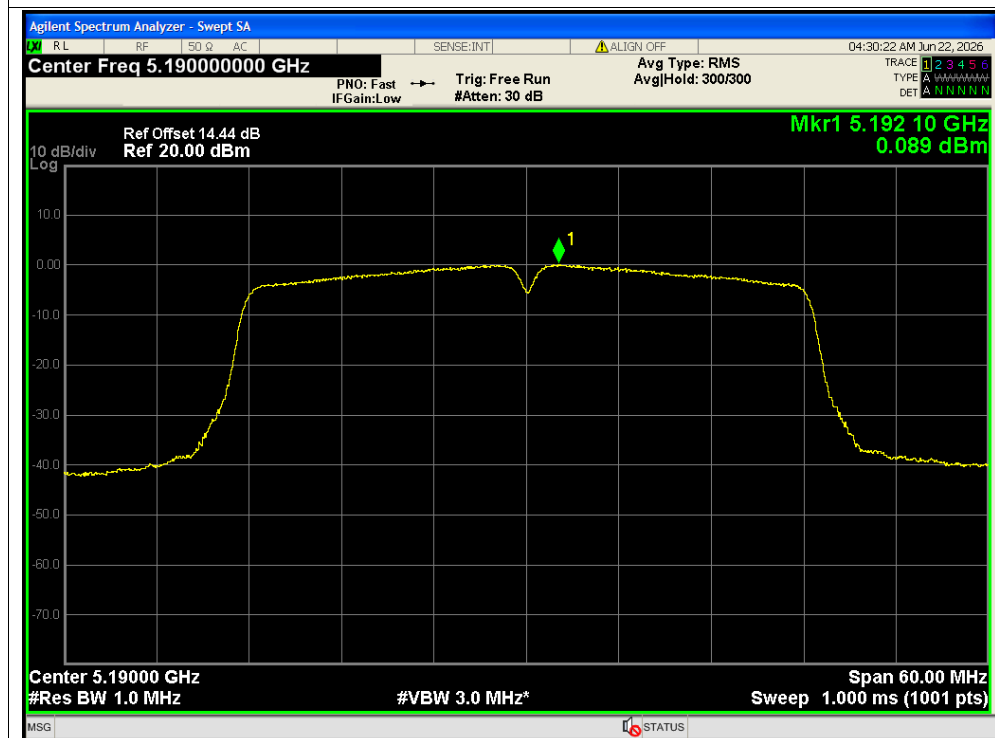
PSD NVNT ac20 5745MHz Ant1



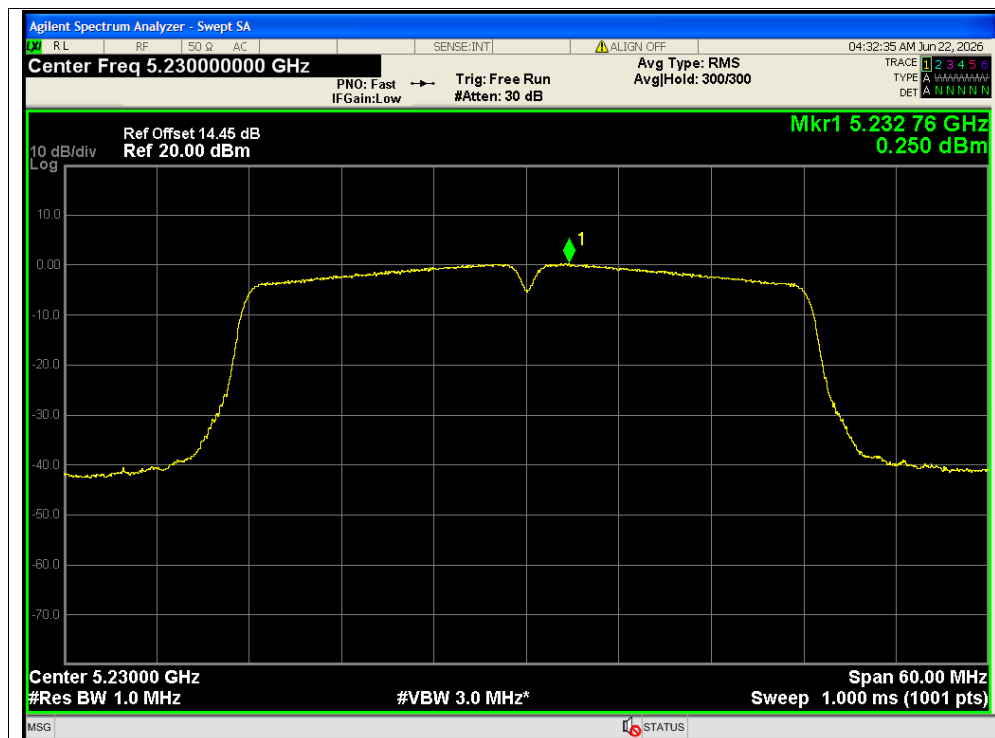
PSD NVNT ac20 5785MHz Ant1



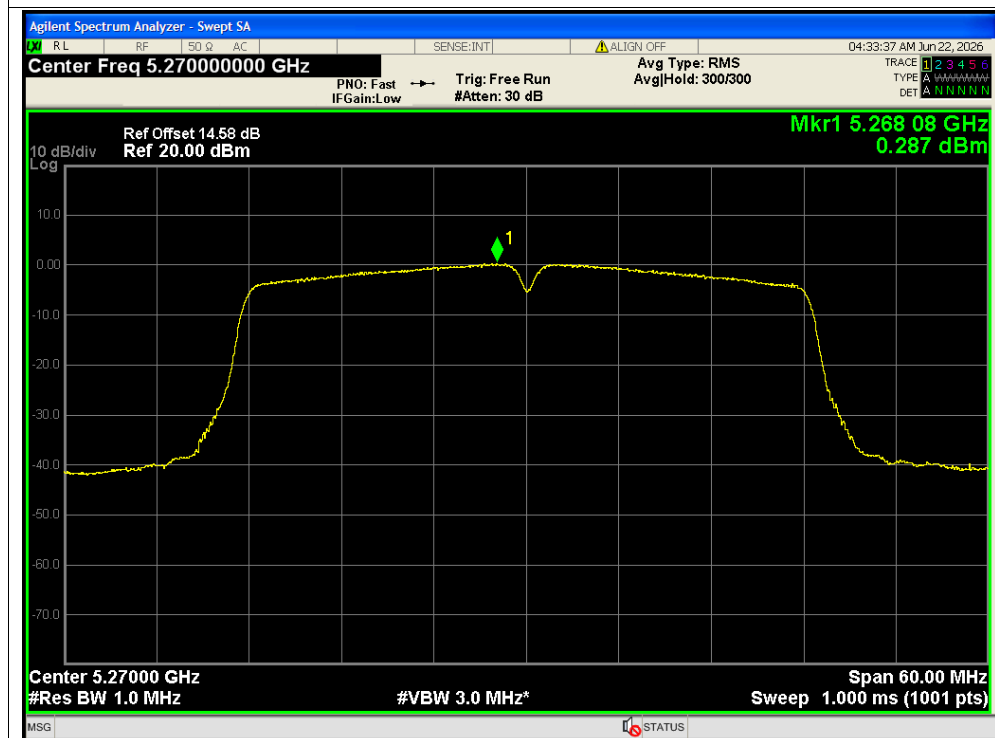
PSD NVNT ac20 5825MHz Ant1



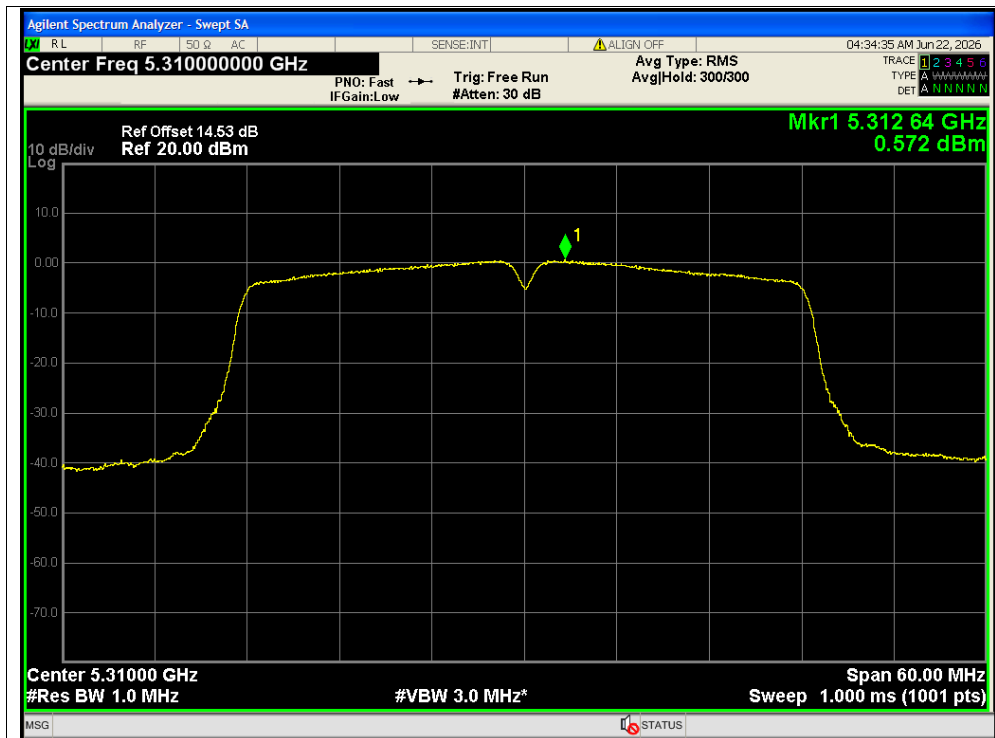
PSD NVNT ac40 5190MHz Ant1



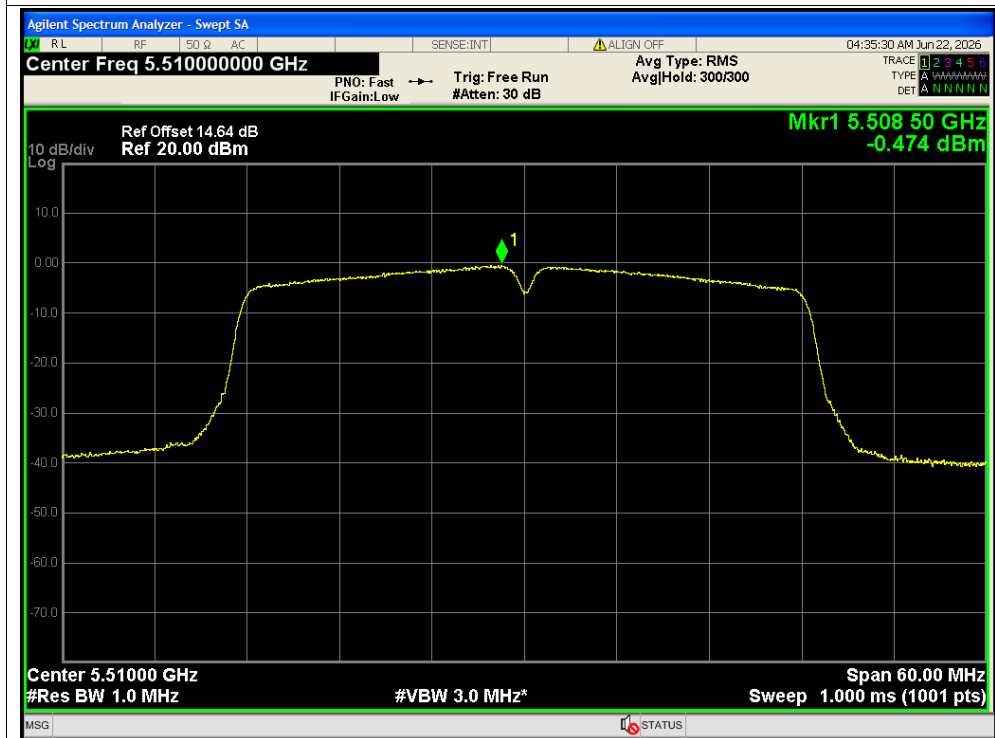
PSD NVNT ac40 5230MHz Ant1



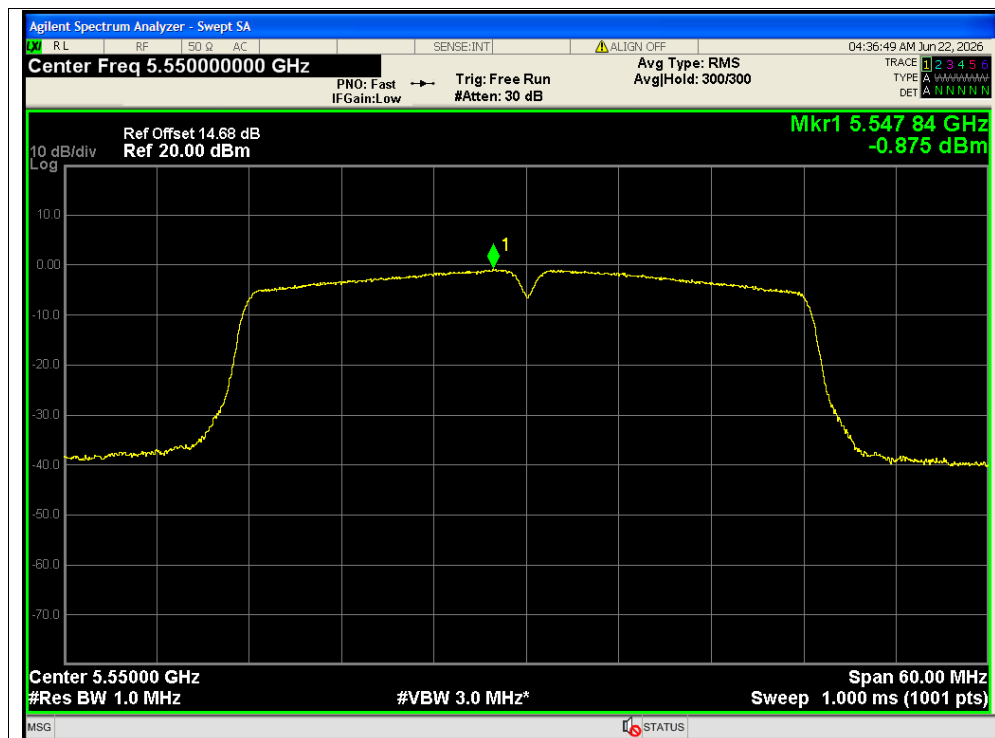
PSD NVNT ac40 5270MHz Ant1



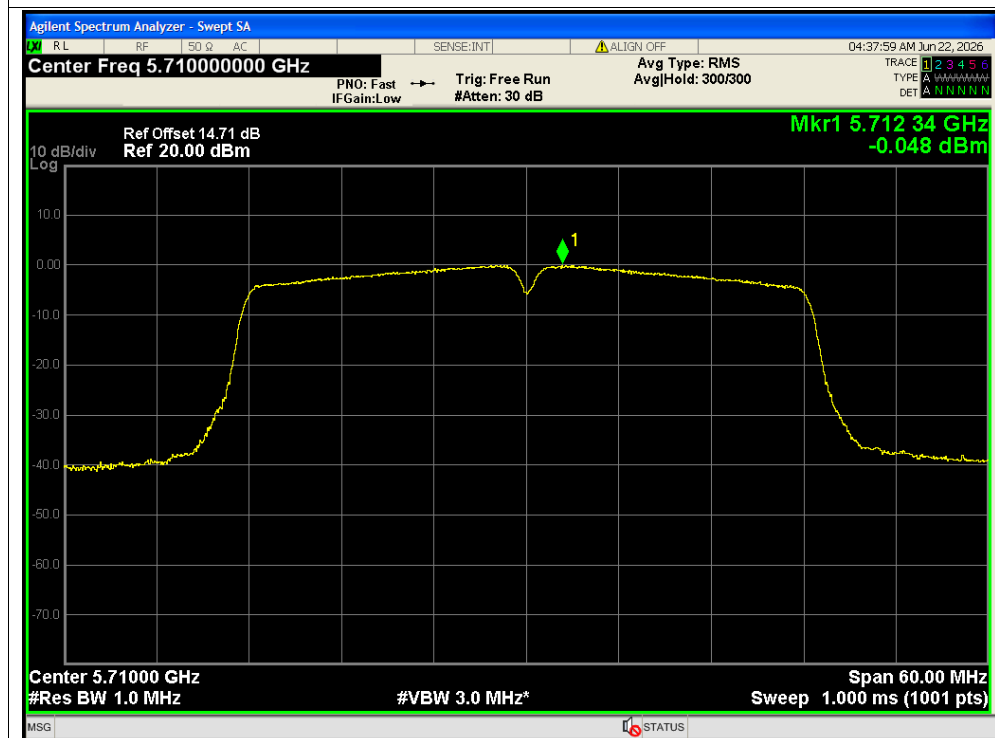
PSD NVNT ac40 5310MHz Ant1



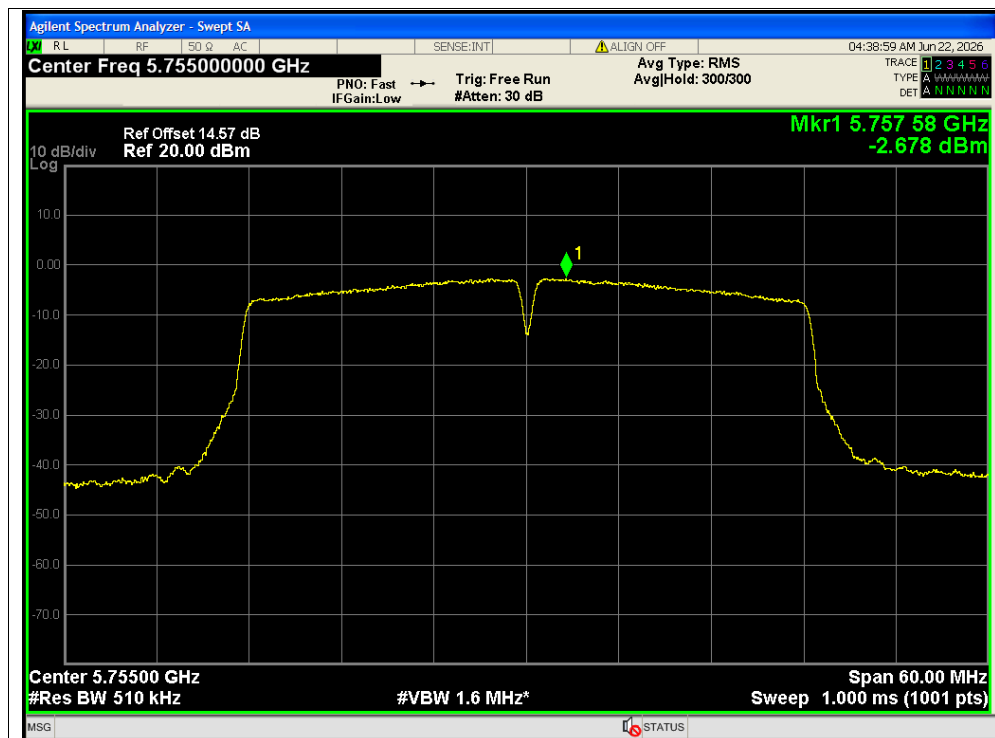
PSD NVNT ac40 5510MHz Ant1



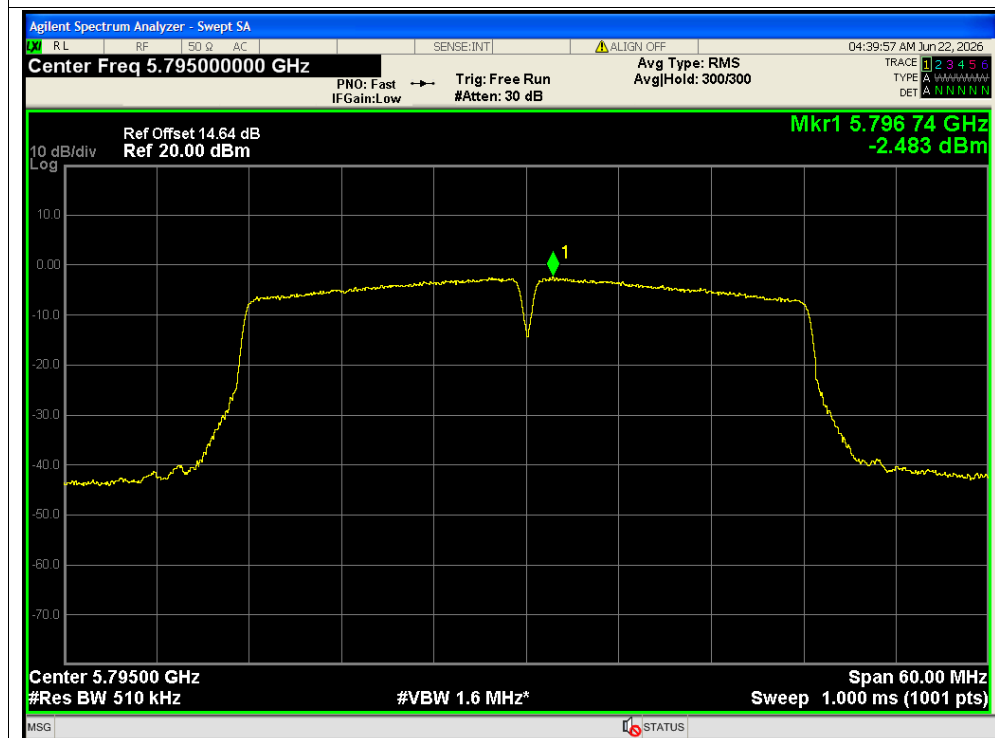
PSD NVNT ac40 5550MHz Ant1



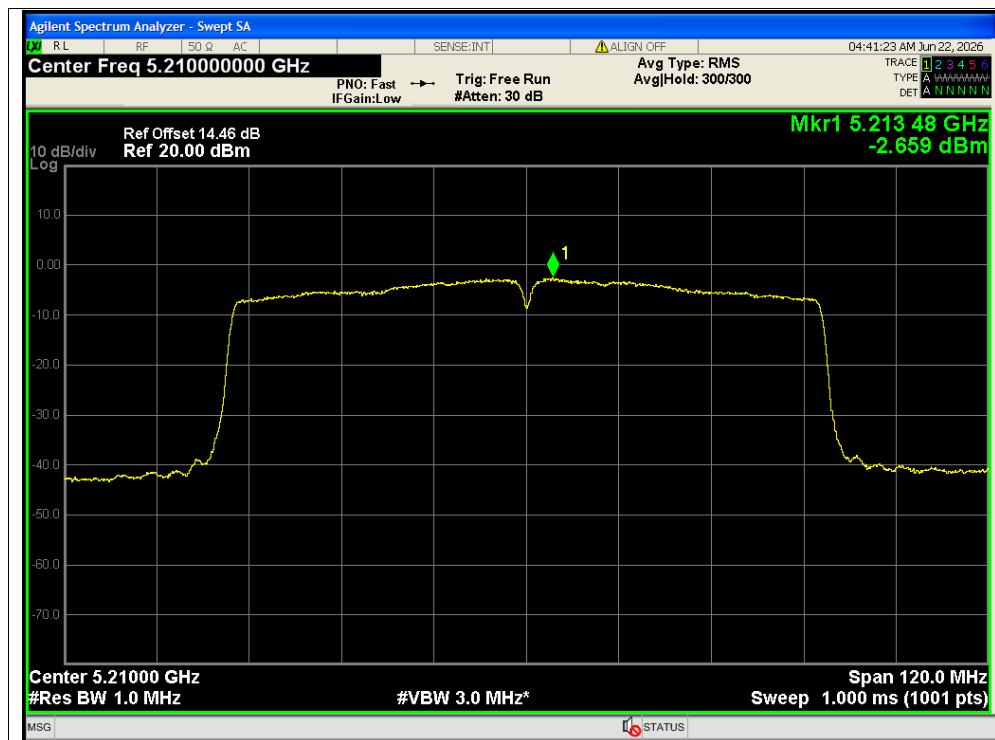
PSD NVNT ac40 5710MHz Ant1



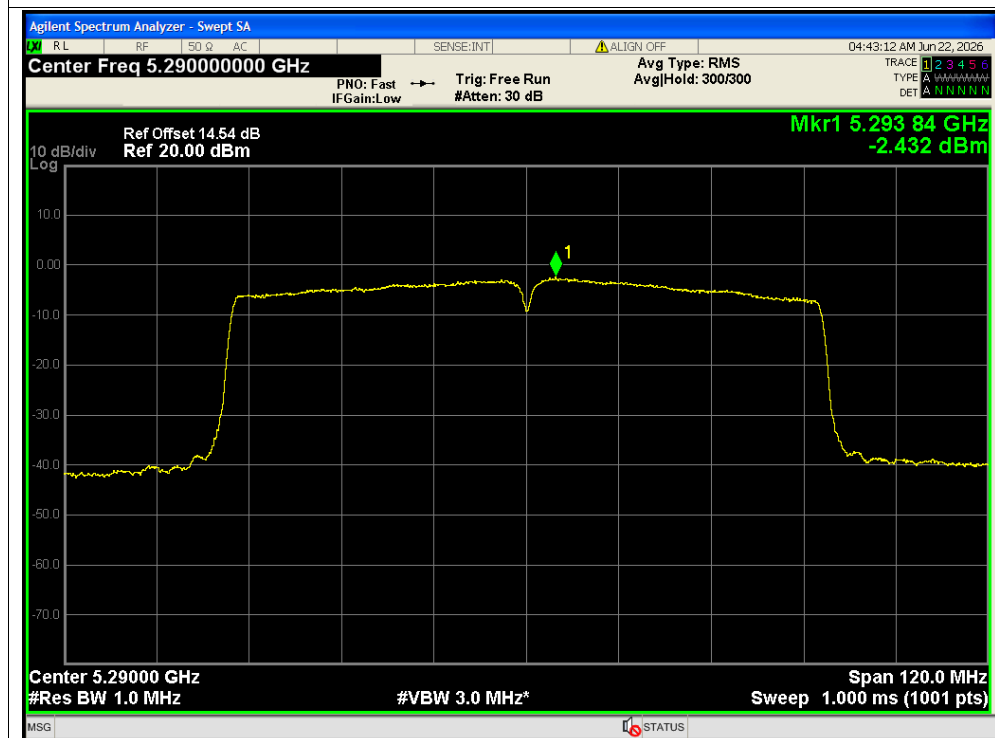
PSD NVNT ac40 5755MHz Ant1



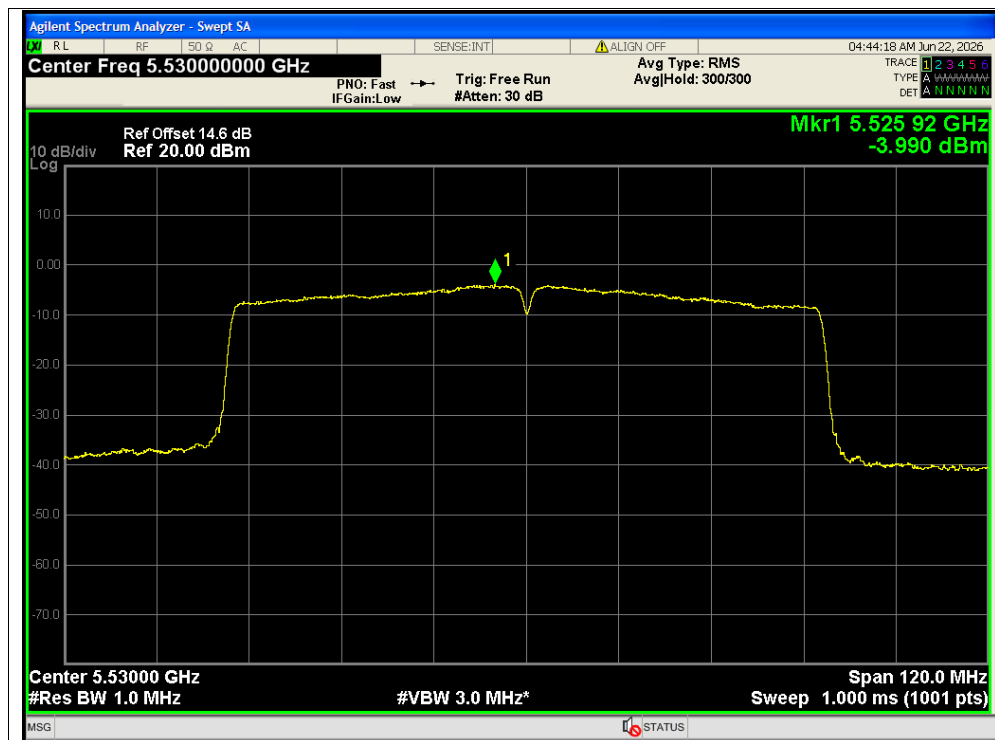
PSD NVNT ac40 5795MHz Ant1



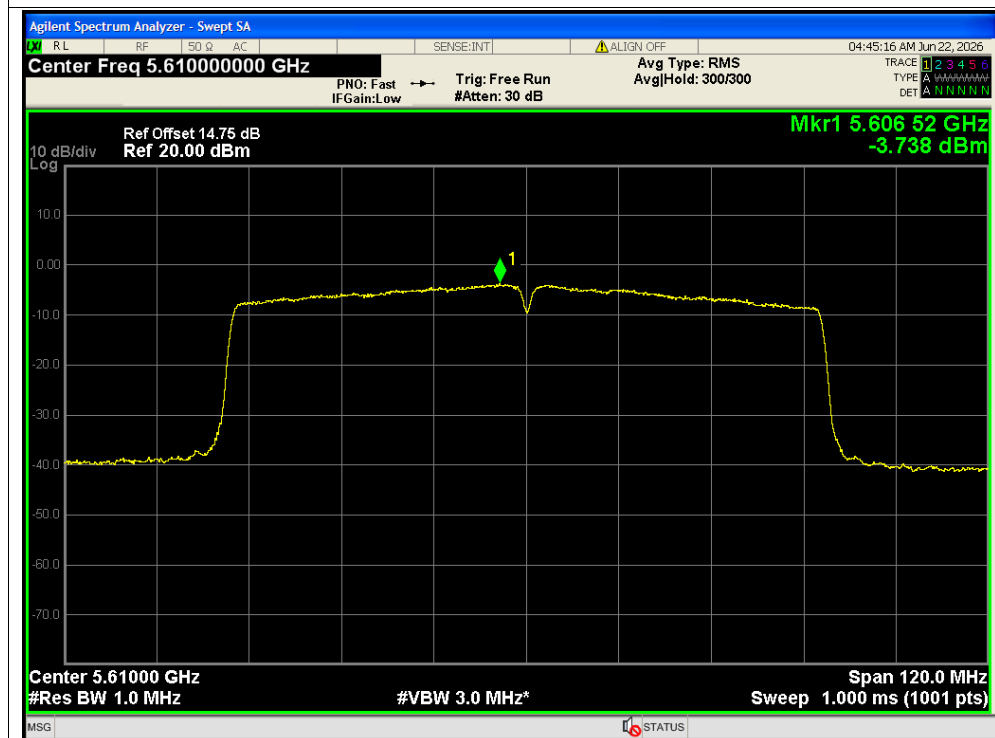
PSD NVNT ac80 5210MHz Ant1



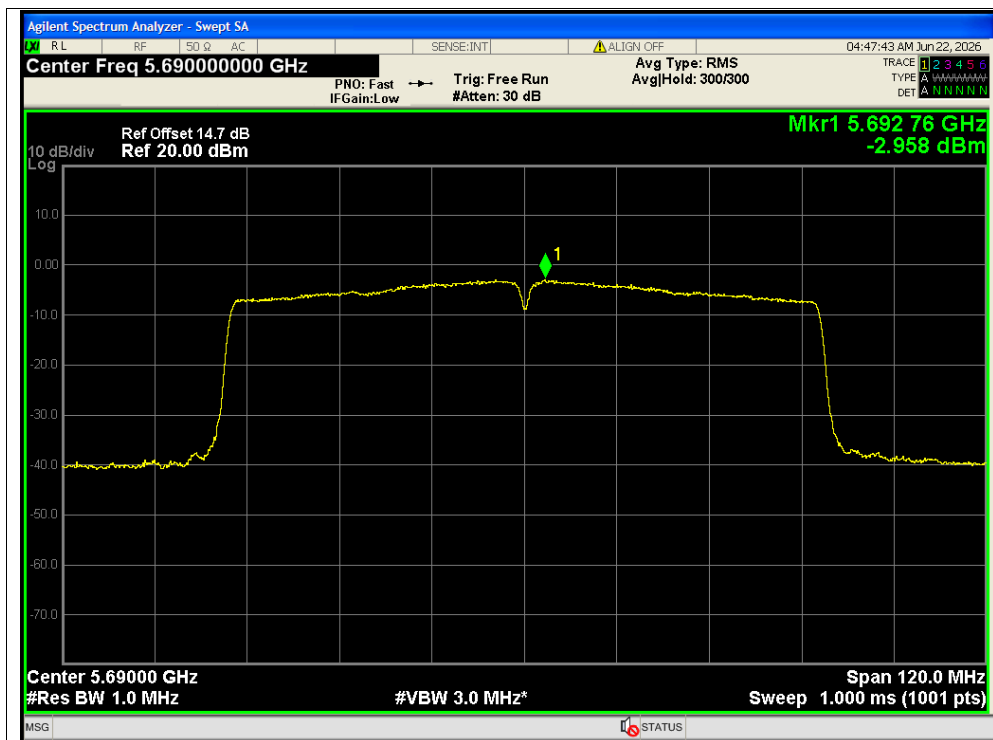
PSD NVNT ac80 5290MHz Ant1



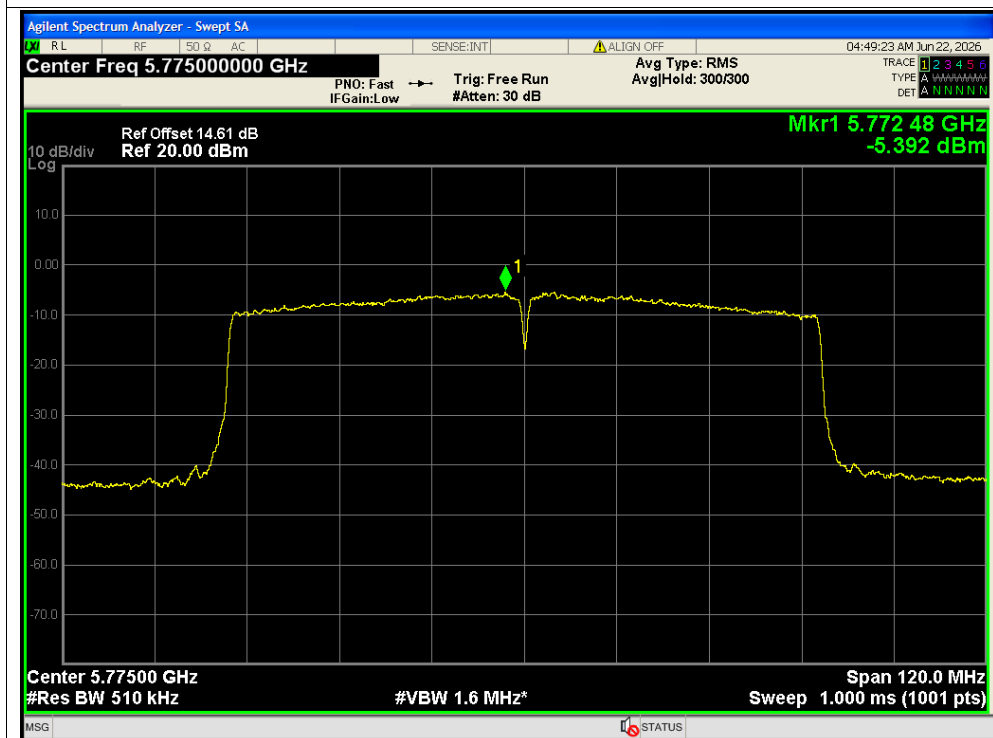
PSD NVNT ac80 5530MHz Ant1



PSD NVNT ac80 5610MHz Ant1



PSD NVNT ac80 5690MHz Ant1



PSD NVNT ac80 5775MHz Ant1

**A.5. Frequency Stability**

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
20C 3V	CW	5180	Ant1	5180.02	20000	3.86	25	Pass
20C 3.85V	CW	5180	Ant1	5180	0	0	25	Pass
20C 4.4V	CW	5180	Ant1	5180.02	20000	3.86	25	Pass
0C 3.85V	CW	5180	Ant1	5180	0	0	25	Pass
10C 3.85V	CW	5180	Ant1	5180	0	0	25	Pass
30C 3.85V	CW	5180	Ant1	5180.02	20000	3.86	25	Pass
40C 3.85V	CW	5180	Ant1	5180.02	20000	3.86	25	Pass
20C 3V	CW	5260	Ant1	5260	0	0	25	Pass
20C 3.85V	CW	5260	Ant1	5259.98	-20000	-3.8	25	Pass
20C 4.4V	CW	5260	Ant1	5260	0	0	25	Pass
0C 3.85V	CW	5260	Ant1	5260.02	20000	3.8	25	Pass
10C 3.85V	CW	5260	Ant1	5260	0	0	25	Pass
30C 3.85V	CW	5260	Ant1	5260	0	0	25	Pass
40C 3.85V	CW	5260	Ant1	5260	0	0	25	Pass
20C 3V	CW	5500	Ant1	5500.02	20000	3.64	25	Pass
20C 3.85V	CW	5500	Ant1	5500	0	0	25	Pass
20C 4.4V	CW	5500	Ant1	5500.02	20000	3.64	25	Pass
0C 3.85V	CW	5500	Ant1	5500	0	0	25	Pass
10C 3.85V	CW	5500	Ant1	5500.02	20000	3.64	25	Pass
30C 3.85V	CW	5500	Ant1	5499.98	-20000	-3.64	25	Pass
40C 3.85V	CW	5500	Ant1	5500	0	0	25	Pass
20C 3V	CW	5745	Ant1	5745	0	0	25	Pass
20C 3.85V	CW	5745	Ant1	5745.02	20000	3.48	25	Pass
20C 4.4V	CW	5745	Ant1	5745	0	0	25	Pass
0C 3.85V	CW	5745	Ant1	5745	0	0	25	Pass
10C 3.85V	CW	5745	Ant1	5745	0	0	25	Pass
30C 3.85V	CW	5745	Ant1	5744.96	-40000	-6.96	25	Pass
40C 3.85V	CW	5745	Ant1	5745	0	0	25	Pass

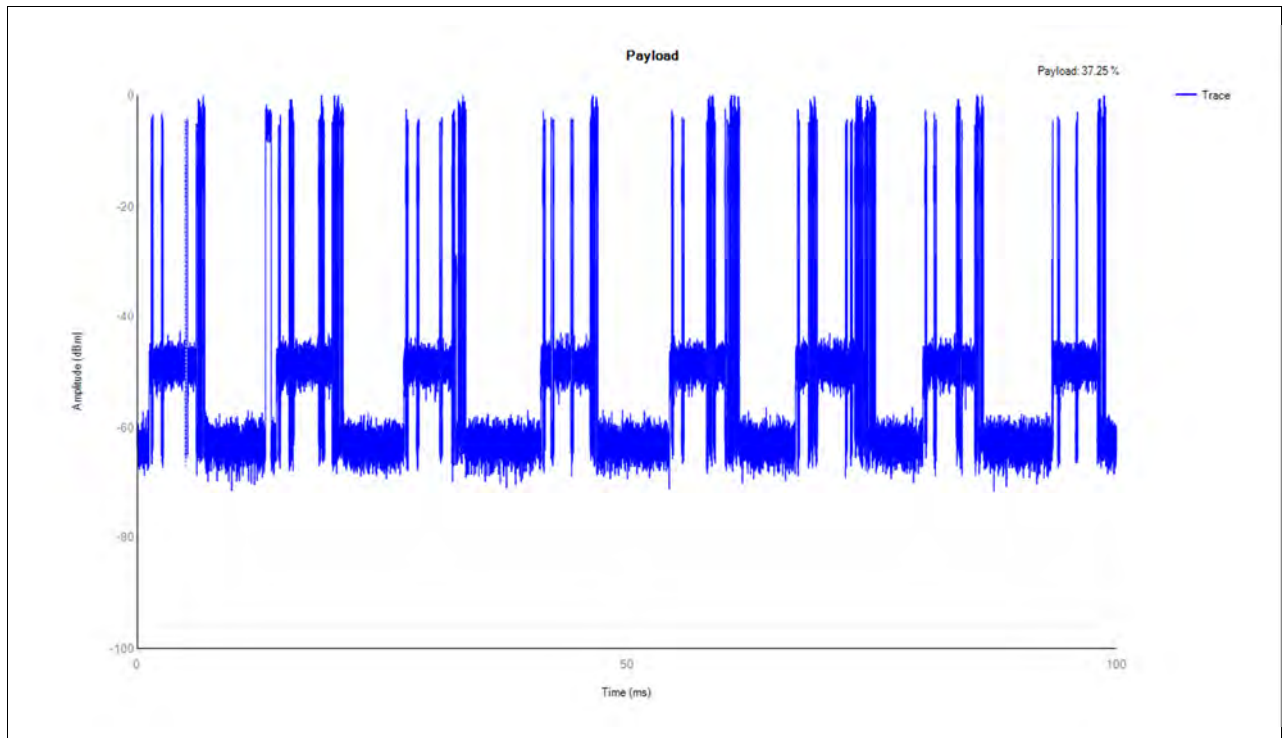


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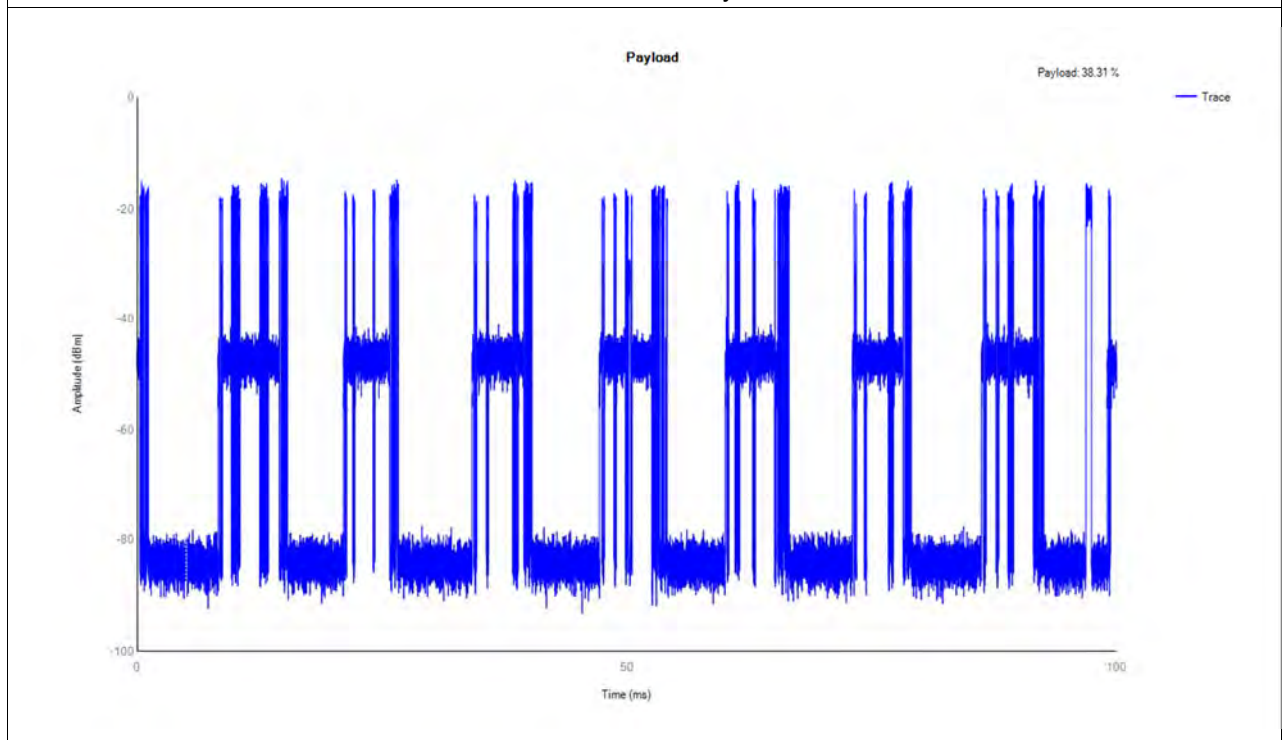
A.6. Dynamic Frequency Selection

Payload

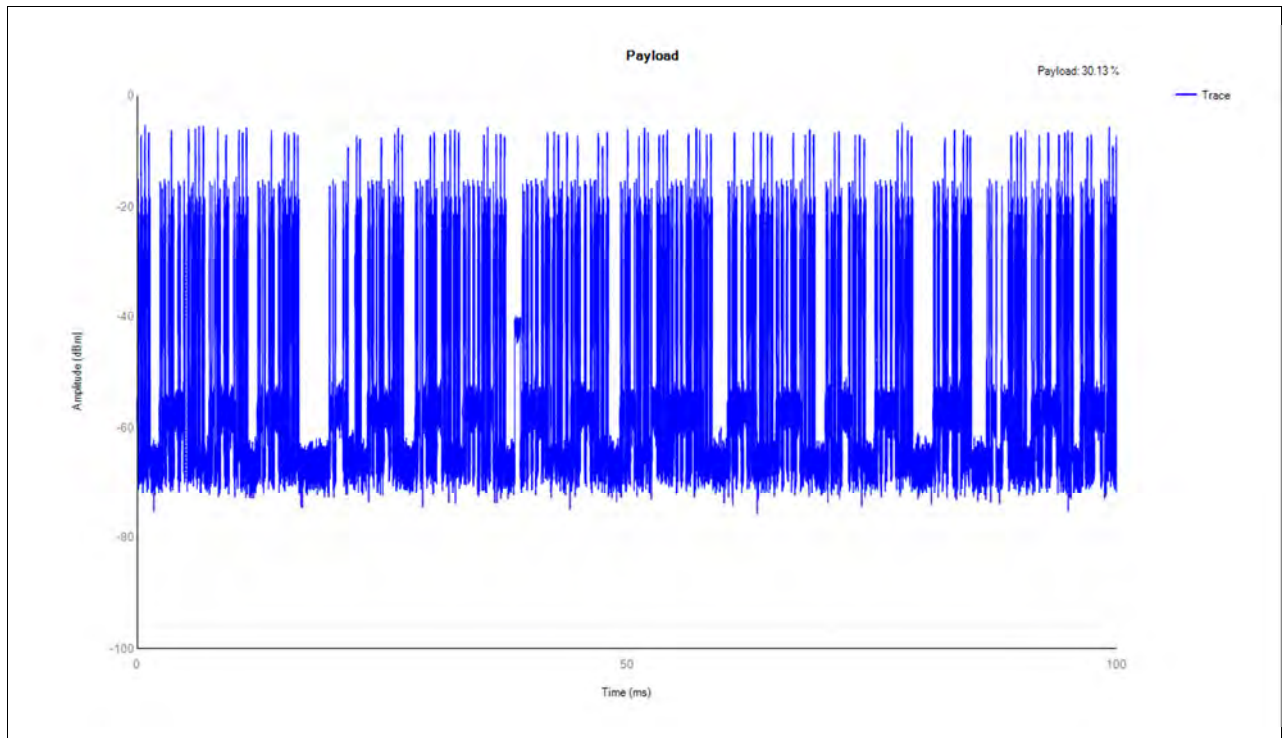
Mode	Frequency (MHz)	Result	Verdict
ac20	5320	37.25	Pass
ac20	5500	38.31	Pass
ac80	5290	30.13	Pass
ac80	5530	48.51	Pass



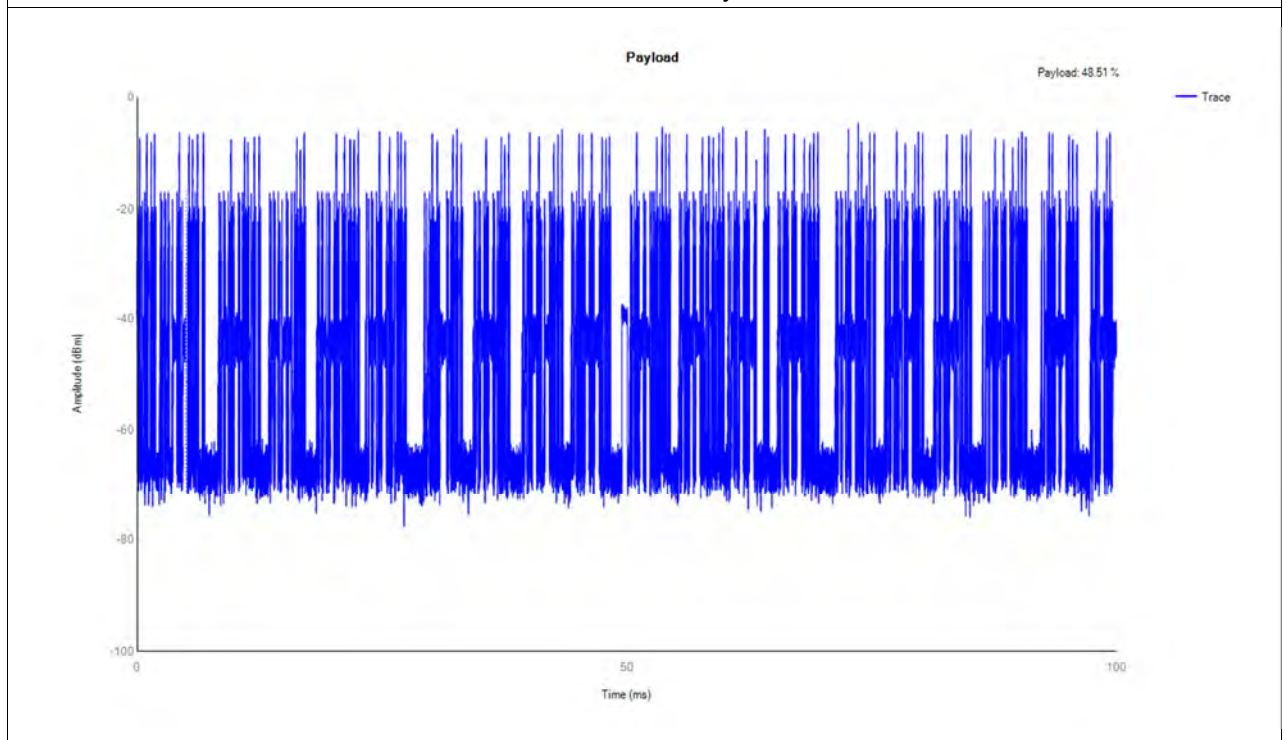
ac20 5320MHz Payload



ac20 5500MHz Payload



ac80 5290MHz Payload



ac80 5530MHz Payload



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

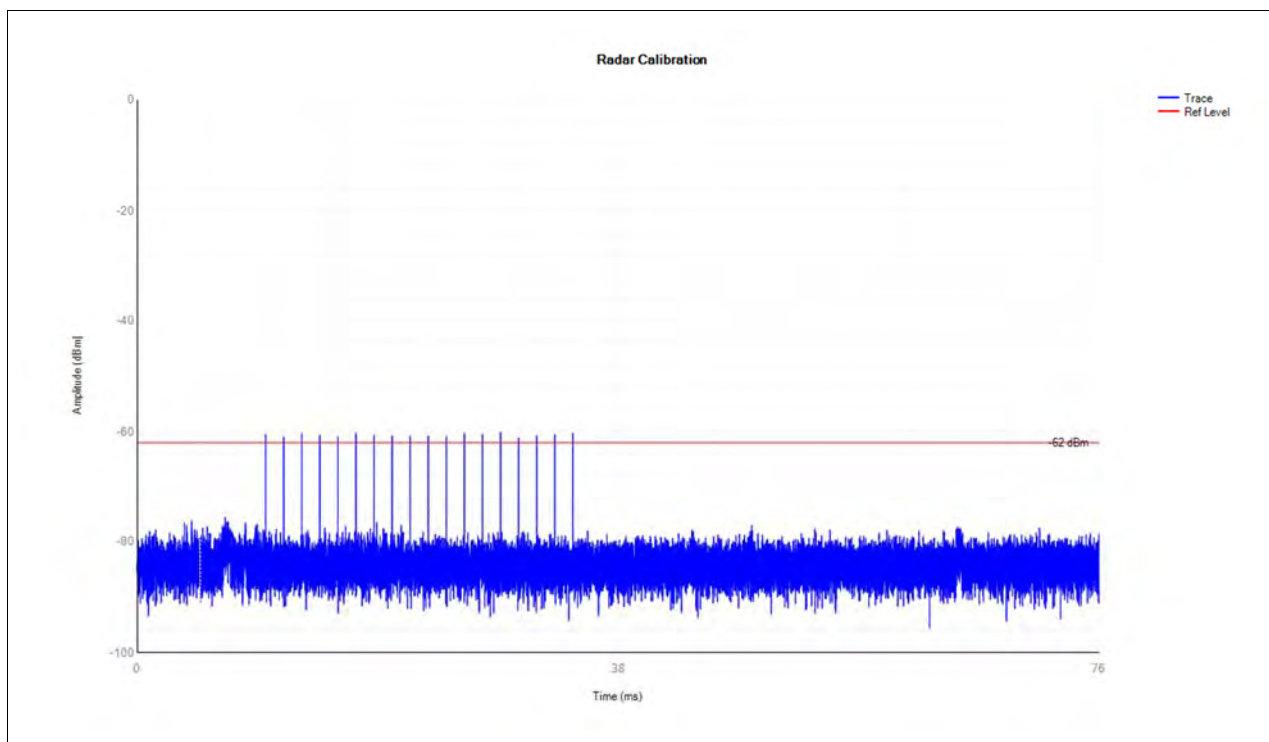
Spectrum analyzer settings:

Span: Zero

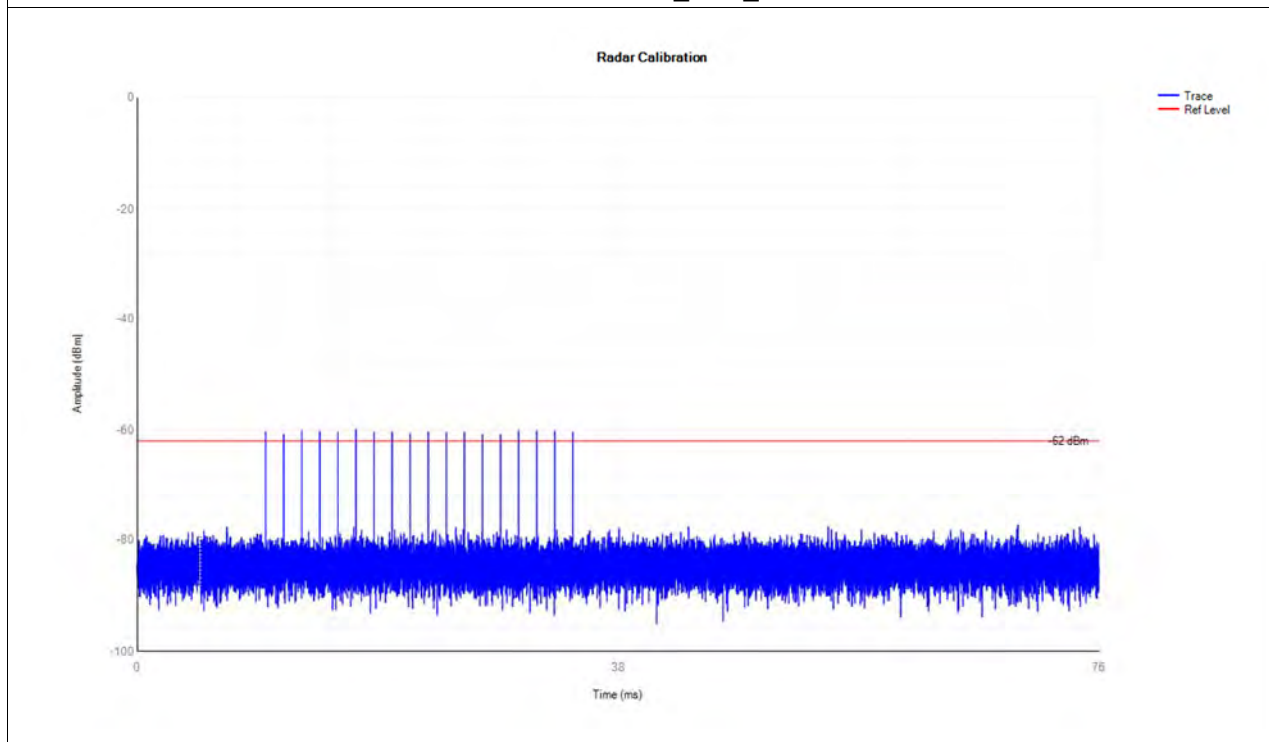
Detector Type: Peak

RBW: 3MHz

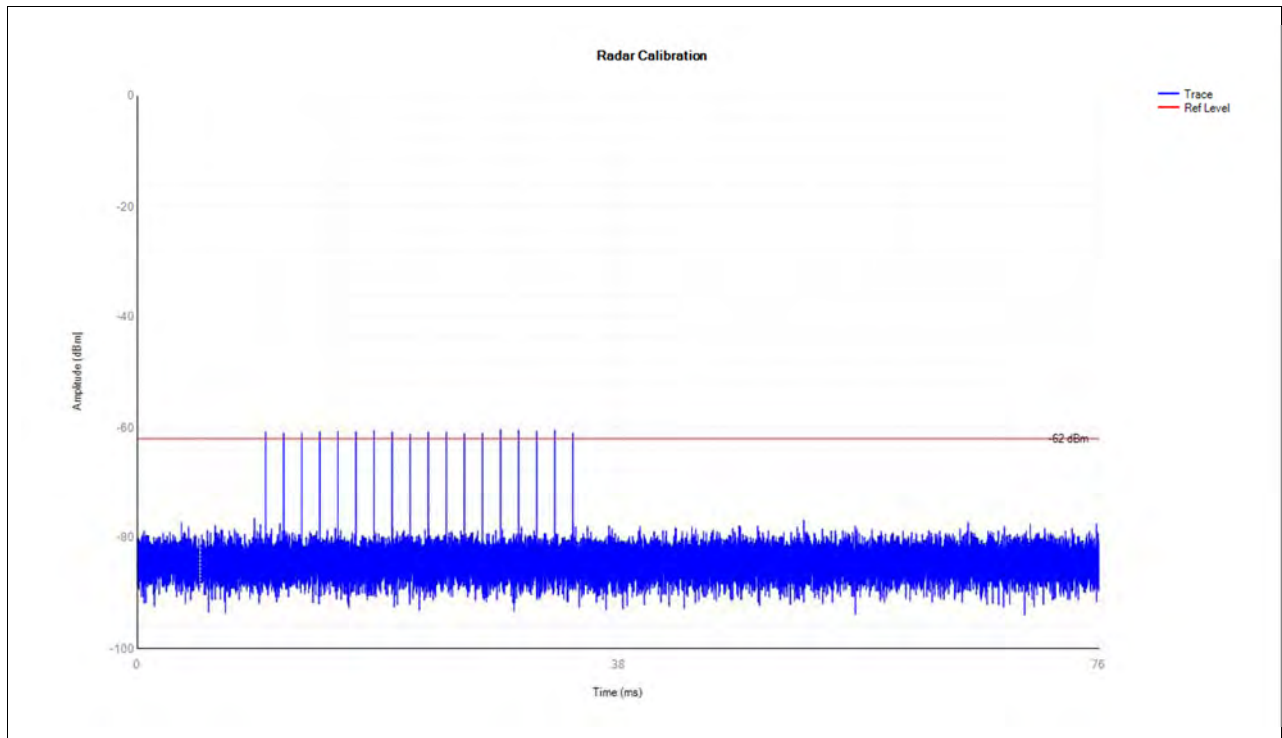
VBW: 3MHz



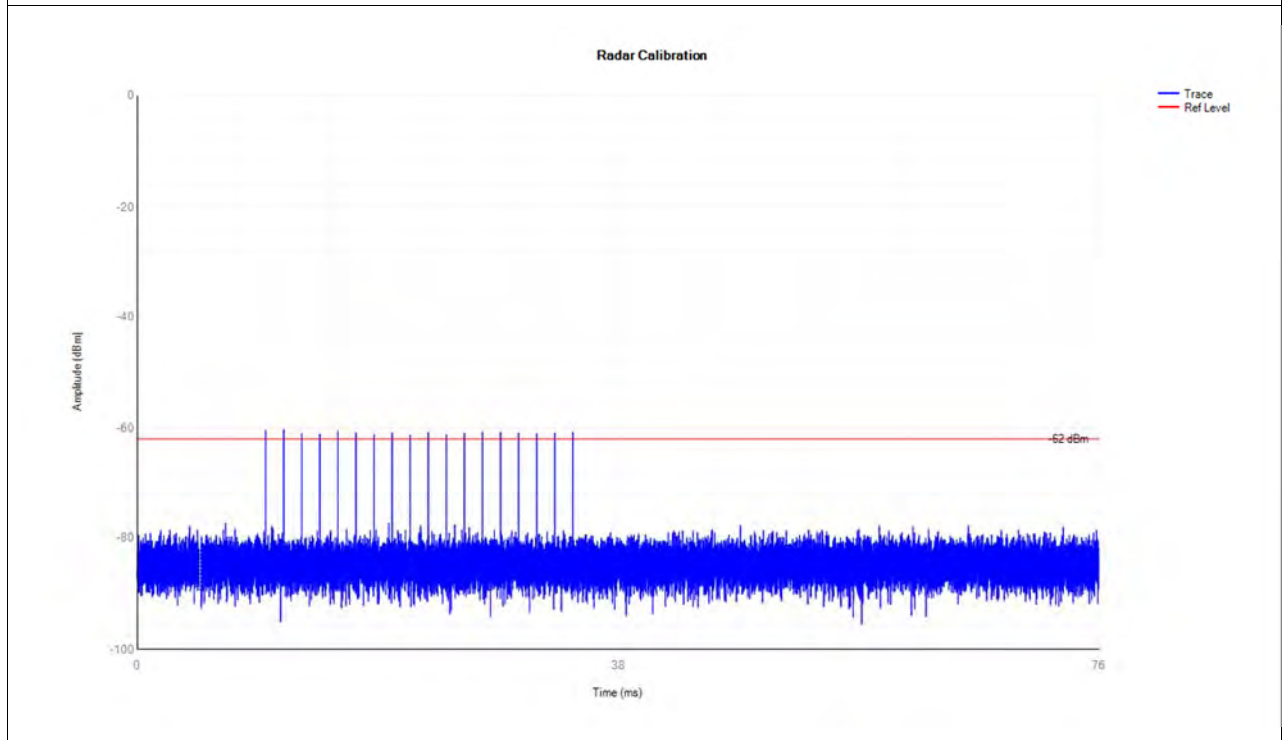
5320MHz DFS_FCC_T0



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
ac20	5320	0.896	10	0.026	0.26	0.011	0.06	Pass
ac20	5500	0.82	10	0.029	0.26	0.011	0.06	Pass
ac80	5290	0.904	10	0.05	0.26	0.015	0.06	Pass
ac80	5530	1.05	10	0.06	0.26	0.03	0.06	Pass

Spectrum analyzer settings:

Span: Zero

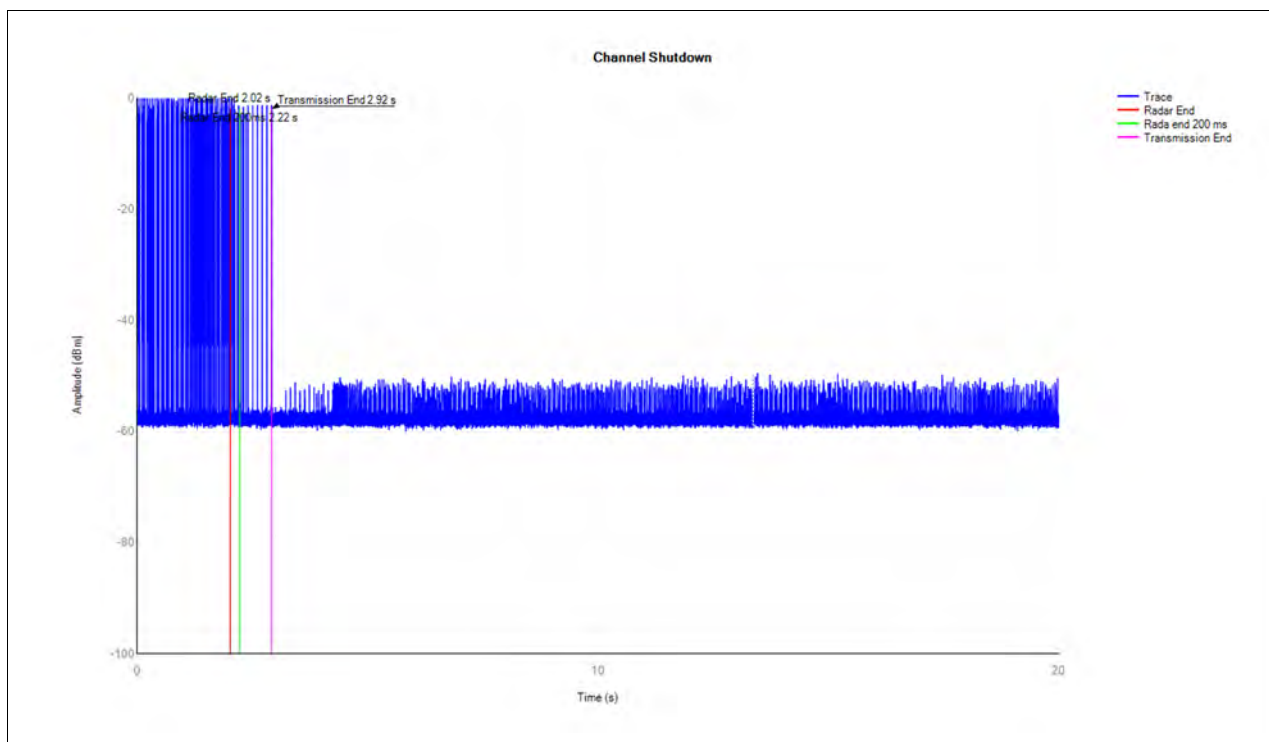
Detector type: Peak

RBW: 3MHz

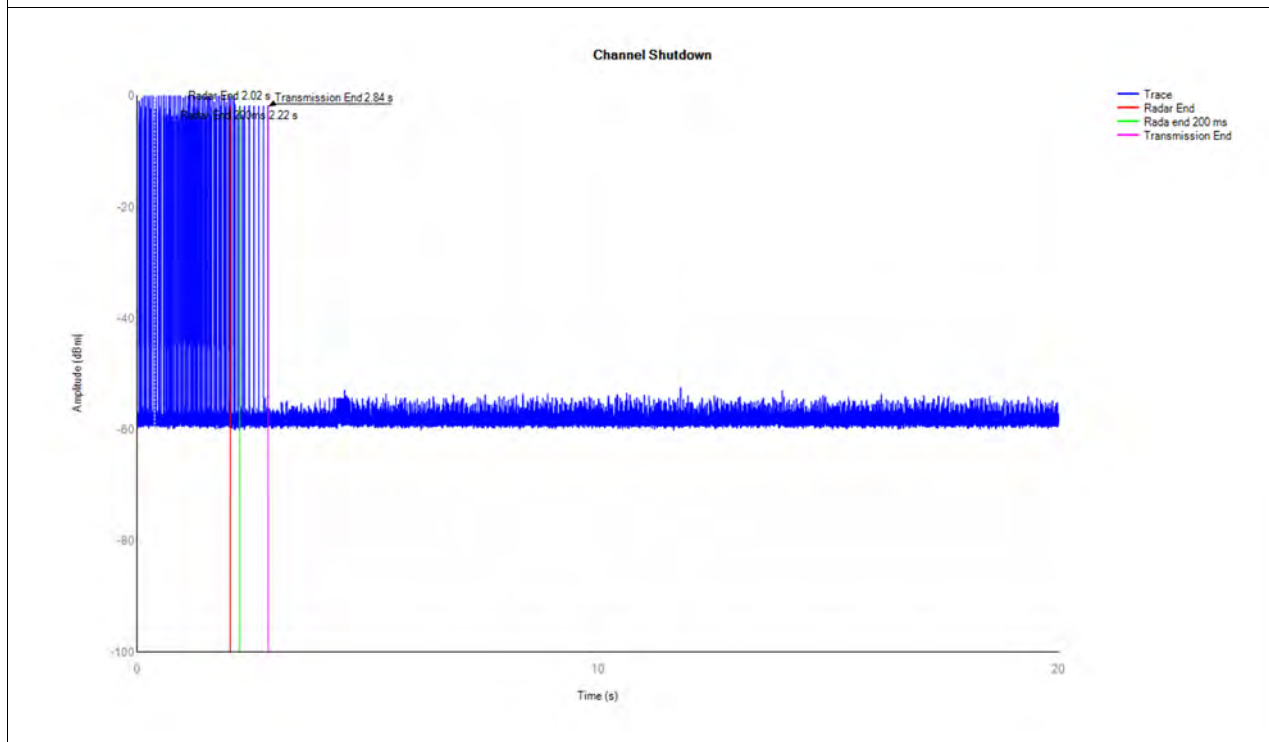
VBW: 3MHz

Sweep time: 20s

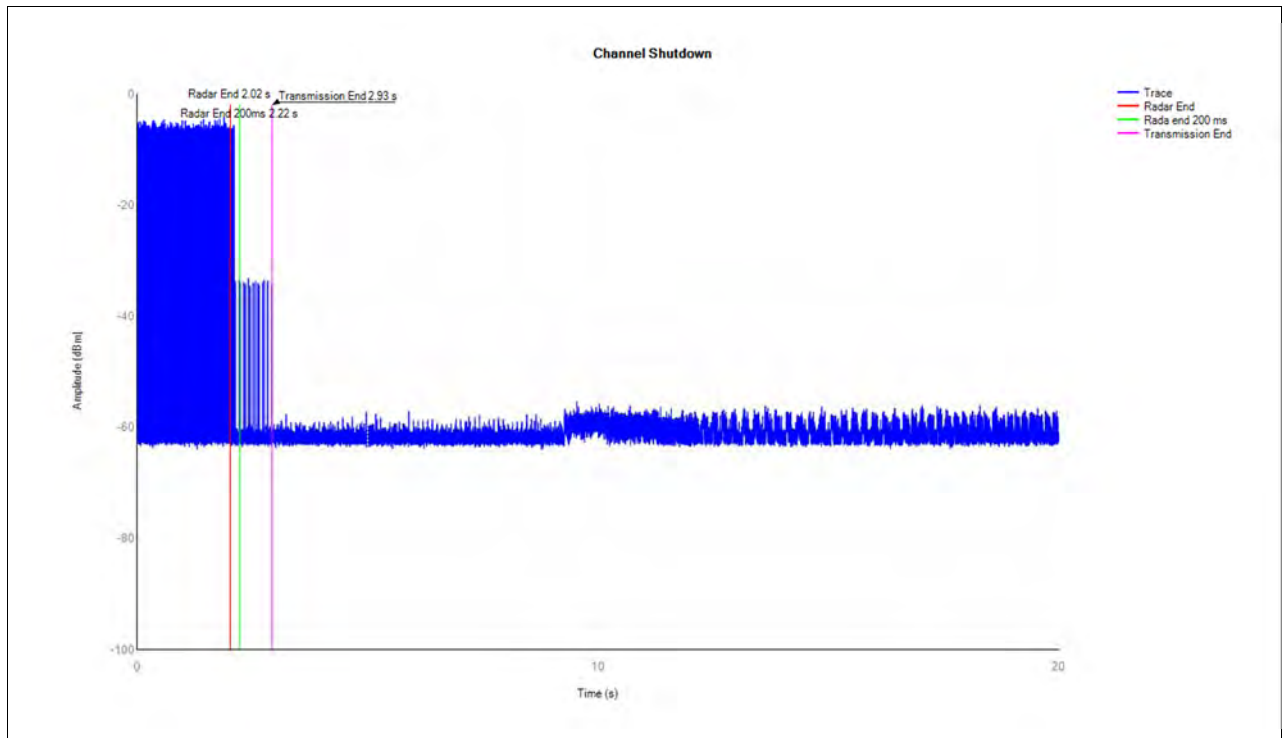




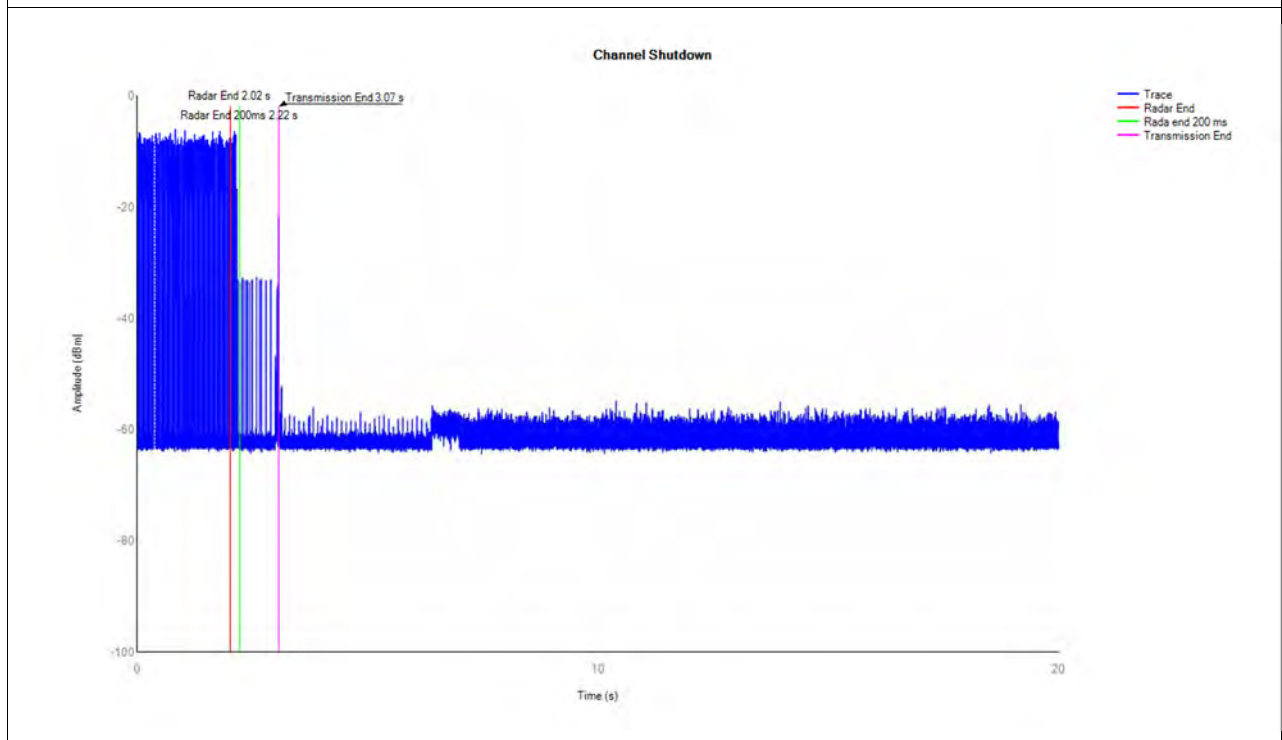
ac20 5320MHz Shutdown



ac20 5500MHz Shutdown



ac80 5290MHz Shutdown



ac80 5530MHz Shutdown

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.



REPORT No.: SZ26050130W04

Non-Occupancy Period

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

Spectrum analyzer settings:

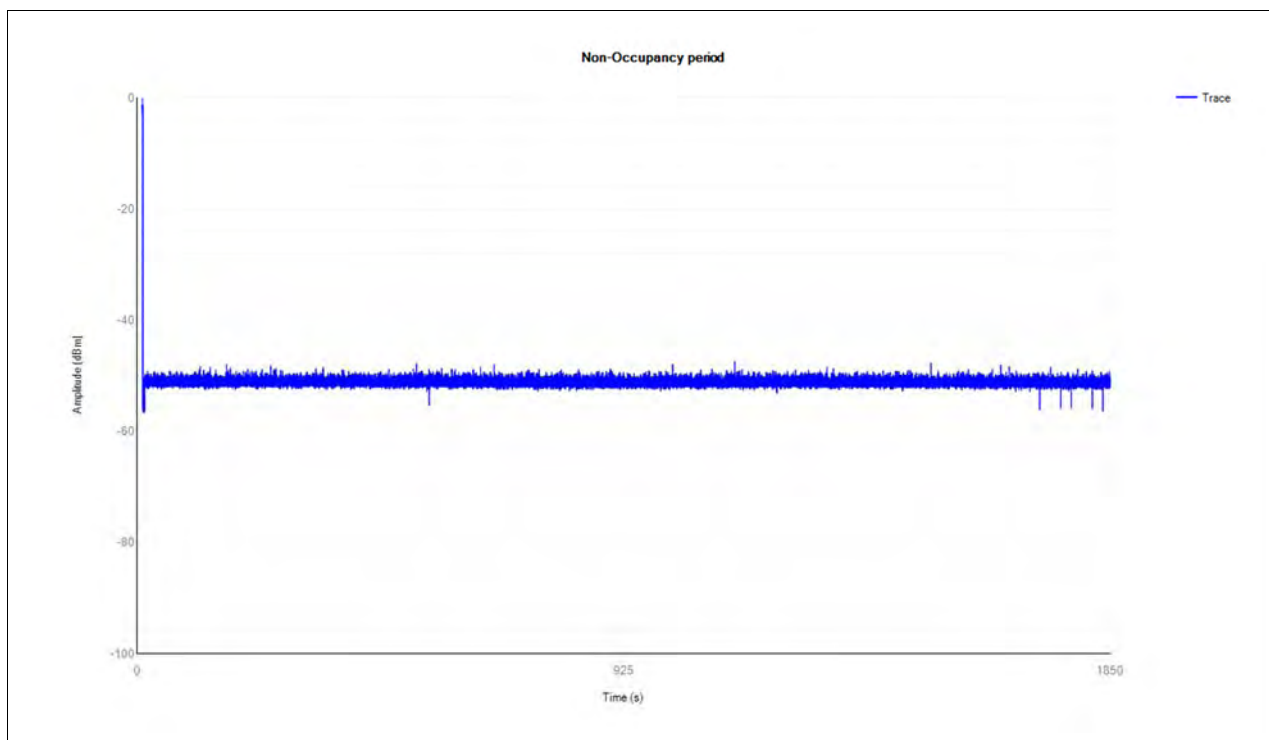
Span: Zero

Detector type: Peak

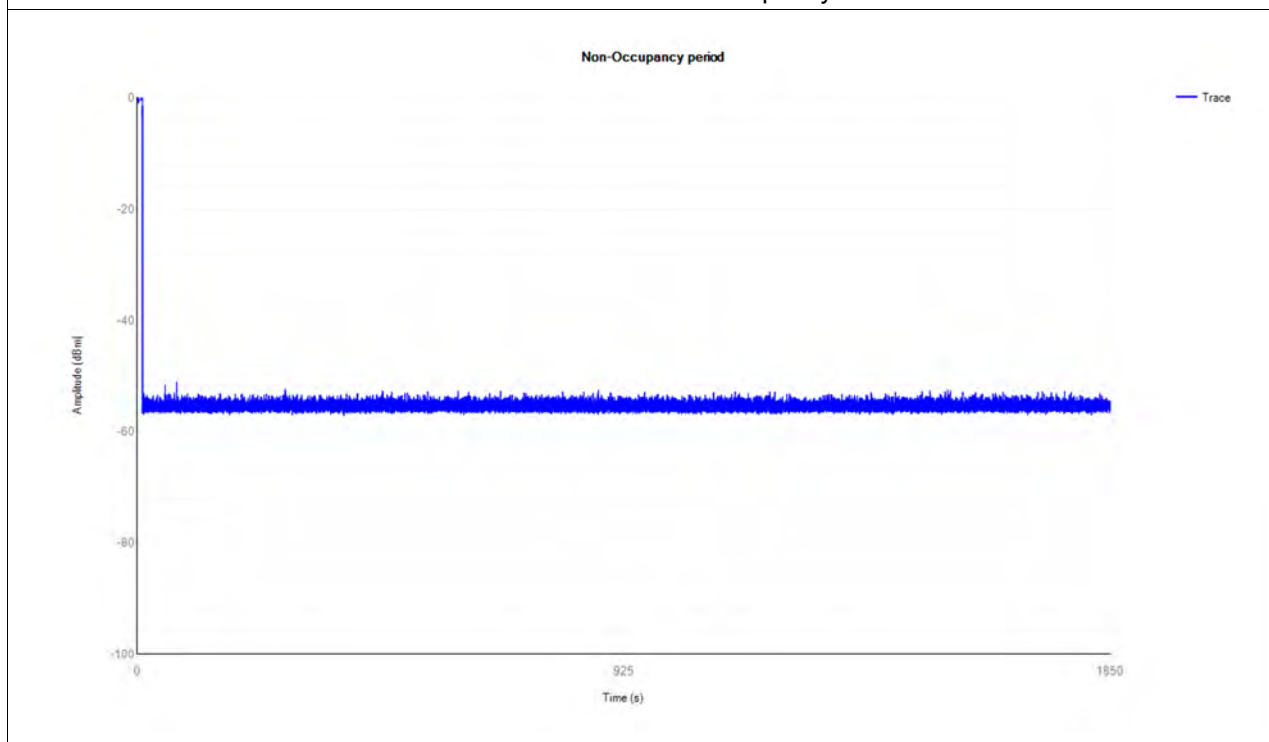
RBW: 3MHz

VBW: 3MHz

Sweep time: 1850s



ac20 5320MHz Non-Occupancy



ac20 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+Stylus+Adapter+USB cable+WIFI TX

Test voltage: AC 120V/60Hz

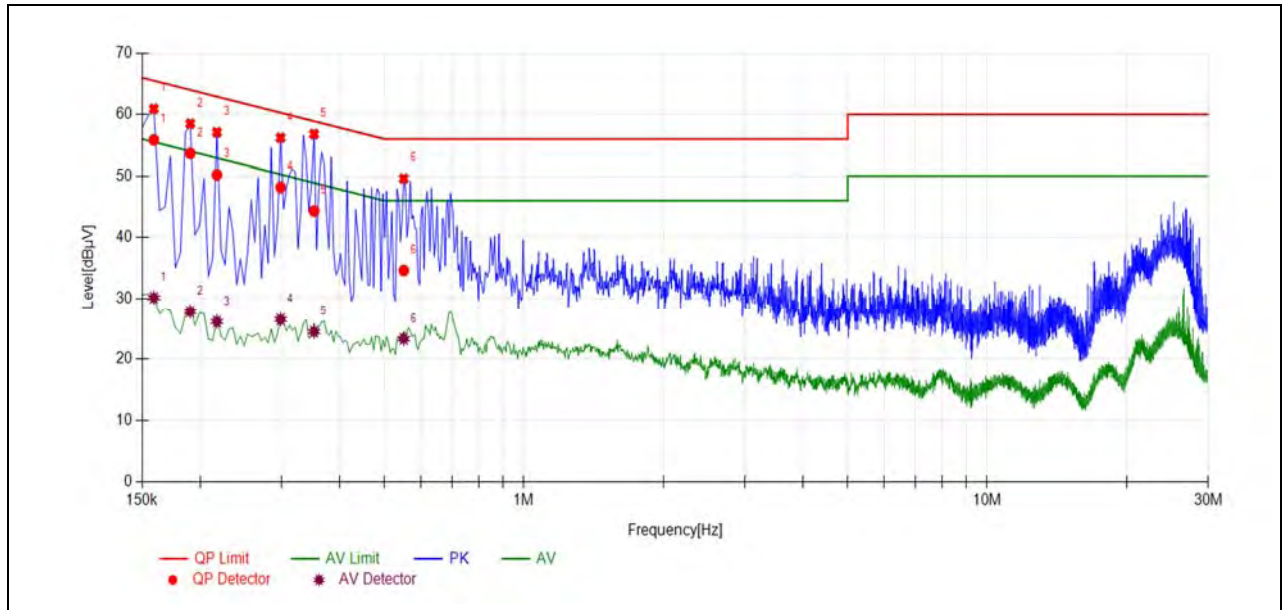
The measurement results are obtained as below:

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

U_R : Receiver Reading

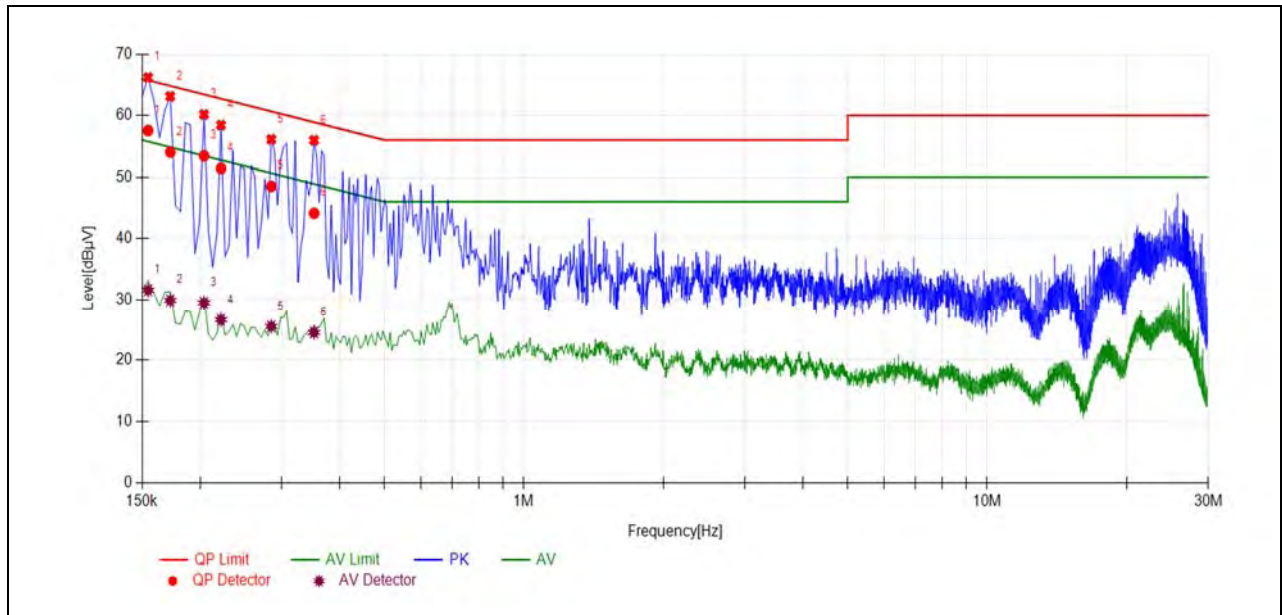
A_{Factor} : Voltage division factor of LISN

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	55.84	30.11	65.52	55.52	Line	PASS
2	0.1905	53.66	27.81	64.02	54.02		PASS
3	0.2175	50.21	26.15	62.91	52.91		PASS
4	0.2985	48.19	26.50	60.29	50.29		PASS
5	0.3525	44.34	24.47	58.90	48.90		PASS
6	0.5505	34.60	23.29	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	0.1545	57.55	31.54	65.76	55.76	Neutral	PASS
2	0.1725	54.01	29.88	64.84	54.84		PASS
3	0.2040	53.43	29.47	63.45	53.45		PASS
4	0.2220	51.41	26.60	62.74	52.74		PASS
5	0.2850	48.51	25.52	60.67	50.67		PASS
6	0.3525	44.13	24.51	58.90	48.90		PASS

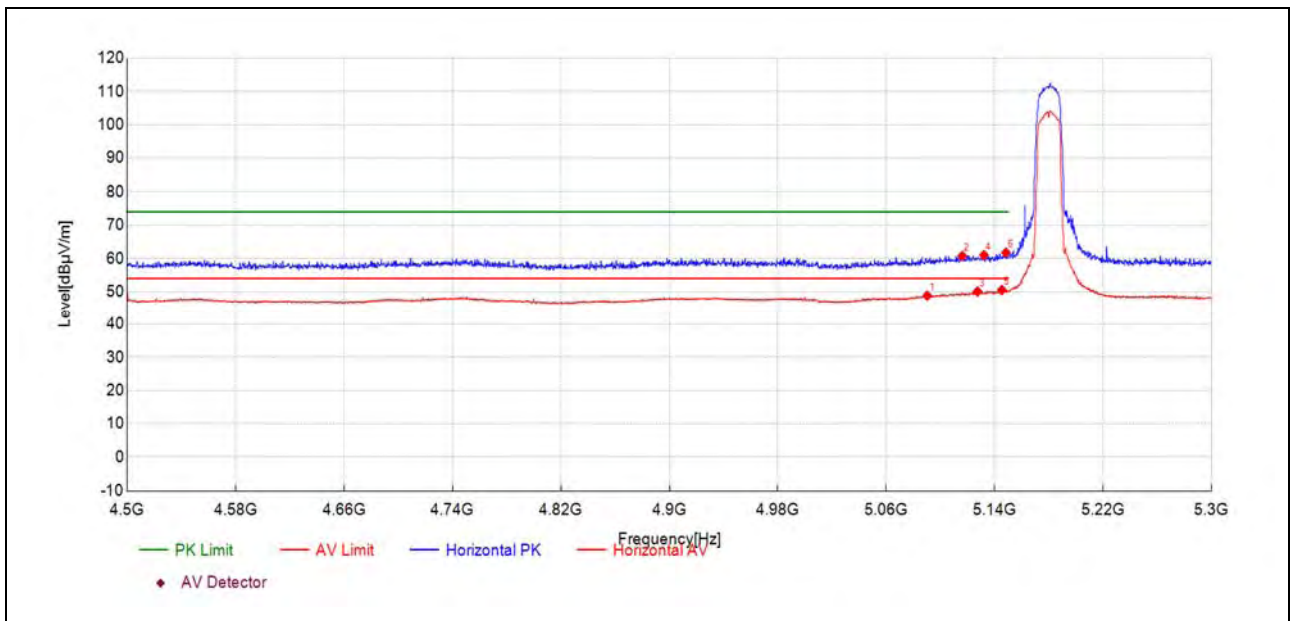
A.8. Restricted Frequency Bands

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

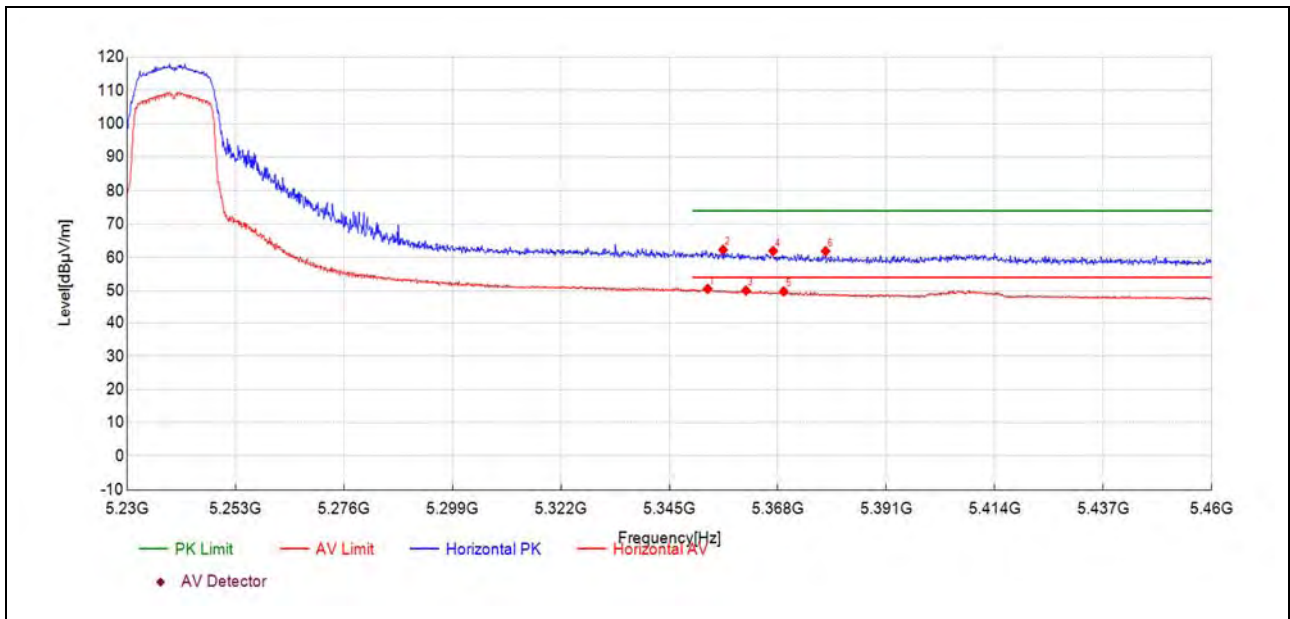
Plot for Channel 36



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5090.25	28.4	48.81	20.460	54.00	5.19	165	6	AV	PASS
5116.00	40.3	60.77	20.460	74.00	13.23	165	0	PK	PASS
5127.25	29.6	50.06	20.420	54.00	3.94	165	287	AV	PASS
5132.00	40.6	60.99	20.400	74.00	13.01	165	271	PK	PASS
5145.25	30.2	50.55	20.340	54.00	3.45	165	279	AV	PASS
5148.25	41.5	61.77	20.320	74.00	12.23	165	287	PK	PASS

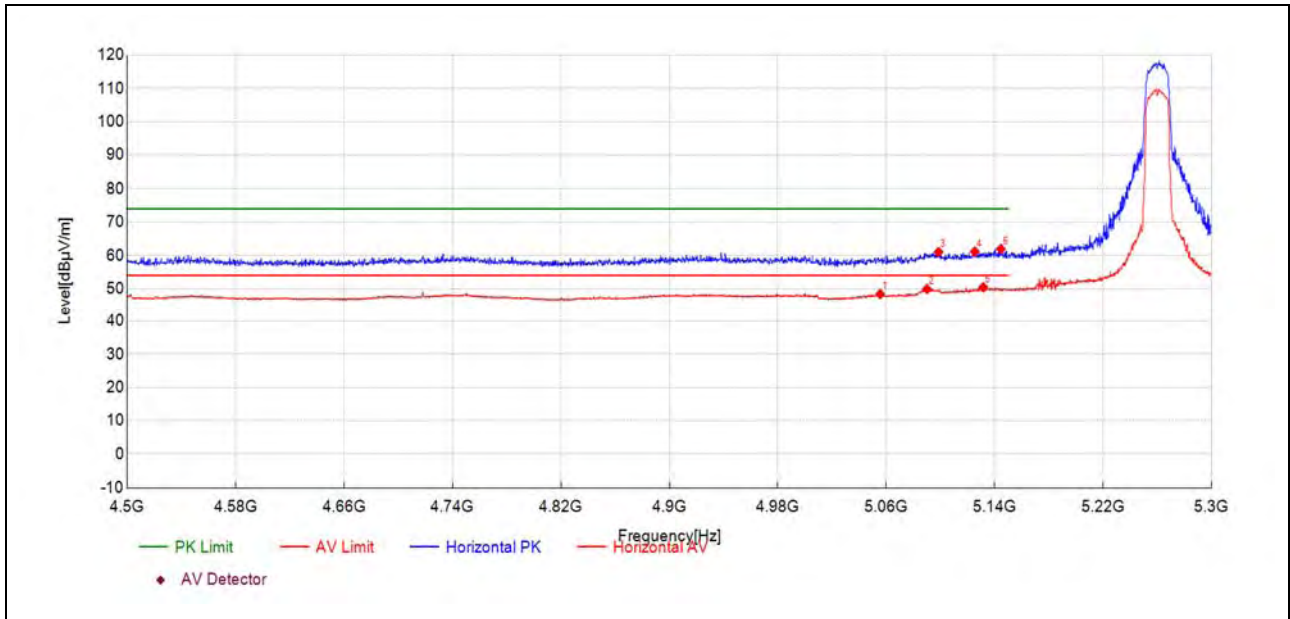


Plot for Channel 48



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5353.13	30.6	50.53	19.930	54.00	3.47	165	281	AV	PASS
5356.38	42.4	62.29	19.930	74.00	11.71	165	359	PK	PASS
5361.25	30.1	50.04	19.920	54.00	3.96	165	266	AV	PASS
5367.00	42.0	61.93	19.910	74.00	12.07	165	78	PK	PASS
5369.25	29.9	49.78	19.900	54.00	4.22	165	274	AV	PASS
5378.13	42.0	61.87	19.870	74.00	12.13	165	274	PK	PASS

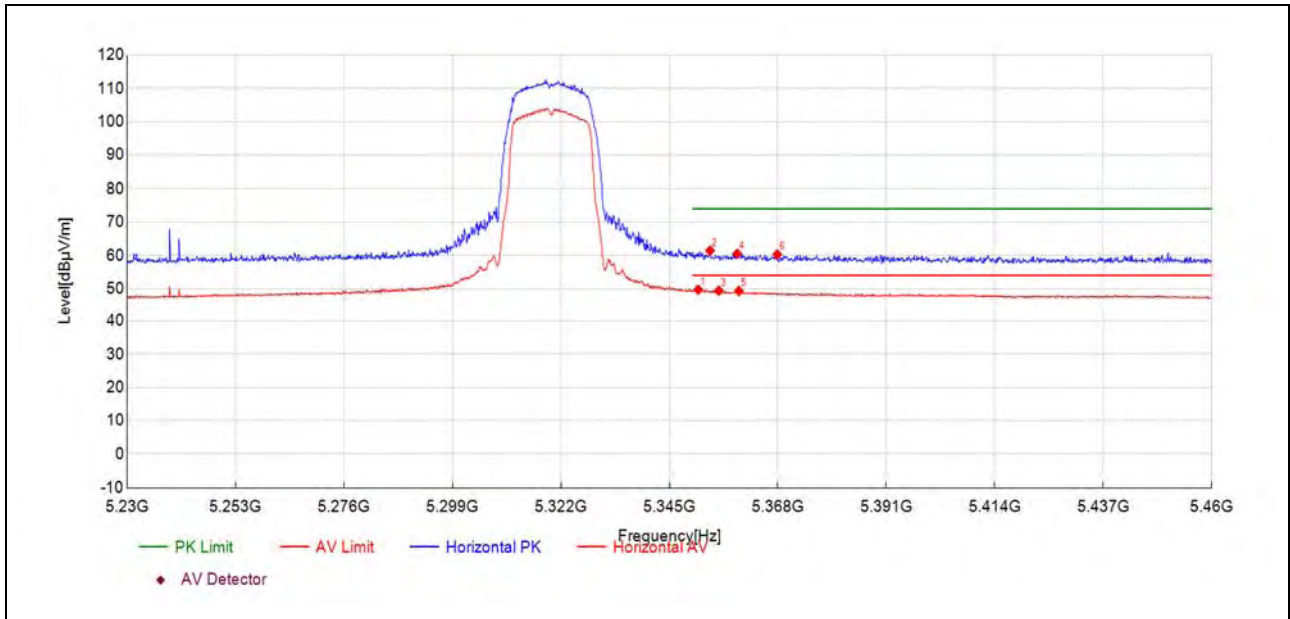
Plot for Channel 52



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5055.50	28.1	48.36	20.230	54.00	5.64	165	46	AV	PASS
5090.00	29.4	49.90	20.460	54.00	4.10	165	349	AV	PASS
5098.50	40.5	61.04	20.510	74.00	12.96	165	78	PK	PASS
5125.25	40.7	61.16	20.420	74.00	12.84	165	30	PK	PASS
5131.50	30.0	50.44	20.400	54.00	3.56	165	285	AV	PASS
5144.50	41.6	61.93	20.340	74.00	12.07	165	46	PK	PASS



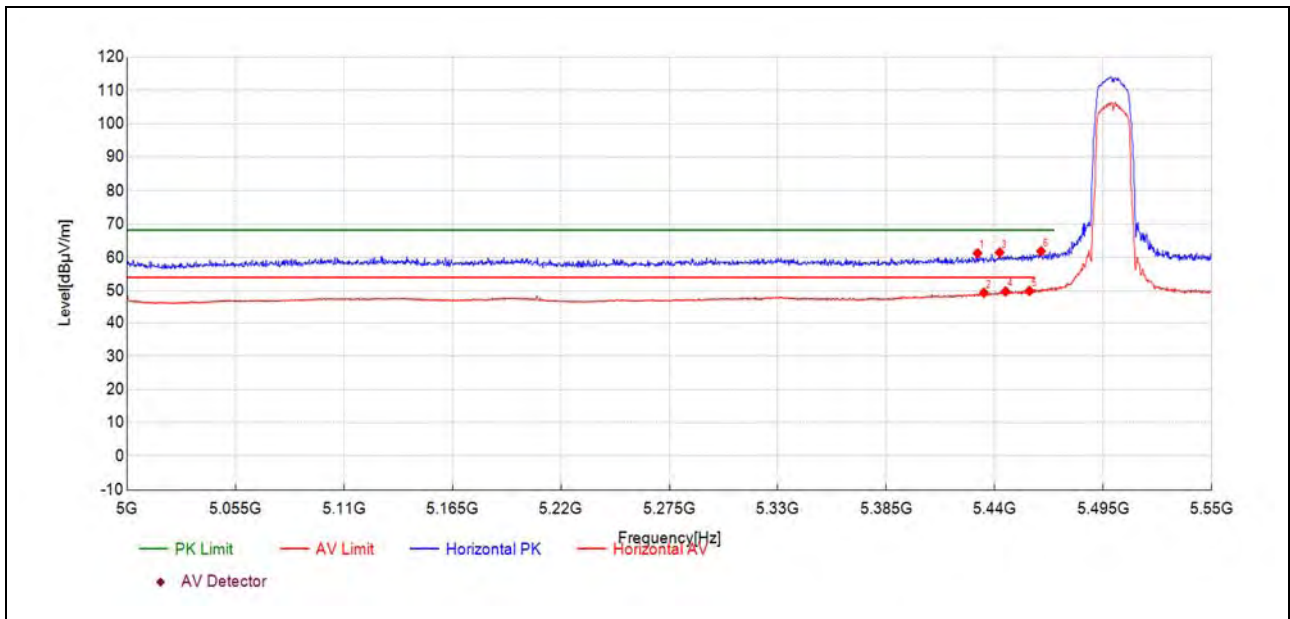
Plot for Channel 64



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5351.13	29.8	49.71	19.940	54.00	4.29	165	287	AV	PASS
5353.63	41.5	61.45	19.930	74.00	12.55	165	294	PK	PASS
5355.50	29.5	49.41	19.930	54.00	4.59	165	280	AV	PASS
5359.38	40.6	60.52	19.920	74.00	13.48	165	360	PK	PASS
5359.75	29.4	49.30	19.920	54.00	4.70	165	280	AV	PASS
5367.88	40.4	60.27	19.900	74.00	13.73	165	280	PK	PASS

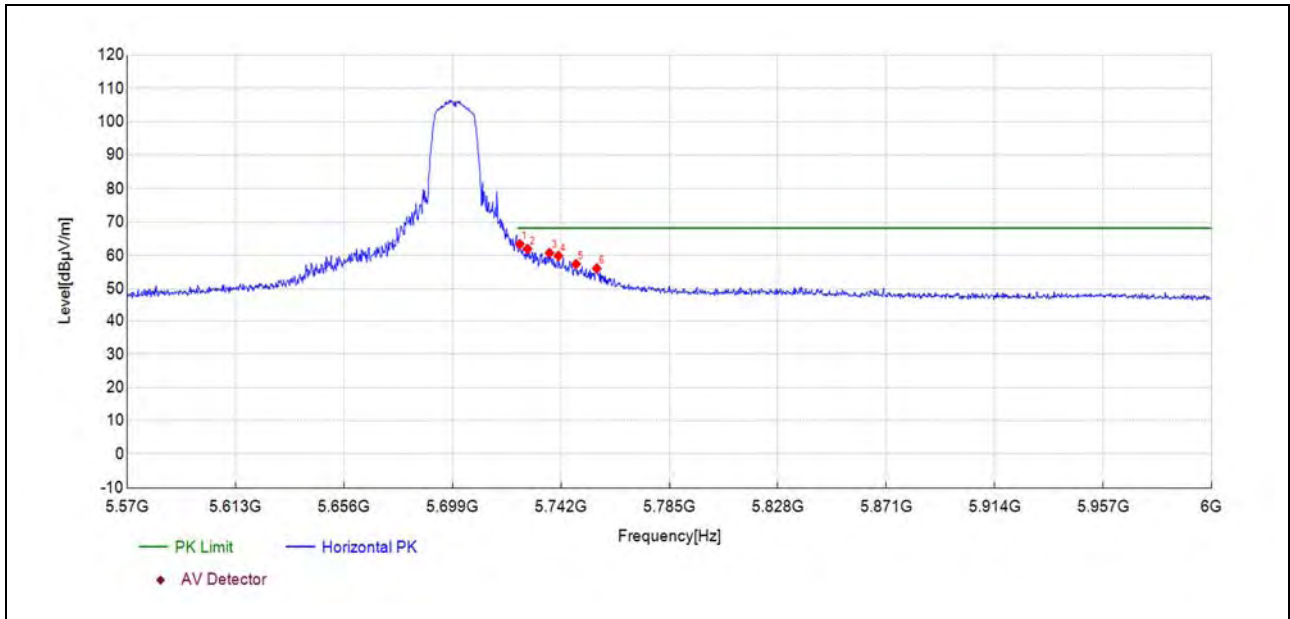


Plot for Channel 100



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5431.25	41.0	61.24	20.230	68.23	6.99	165	274	PK	PASS
5434.50	29.1	49.38	20.270	54.00	4.62	165	266	AV	PASS
5442.50	41.1	61.48	20.370	68.23	6.75	165	266	PK	PASS
5445.50	29.4	49.77	20.420	54.00	4.23	165	266	AV	PASS
5457.50	29.5	49.93	20.440	54.00	4.07	165	281	AV	PASS
5463.50	41.4	61.84	20.400	68.23	6.39	165	274	PK	PASS

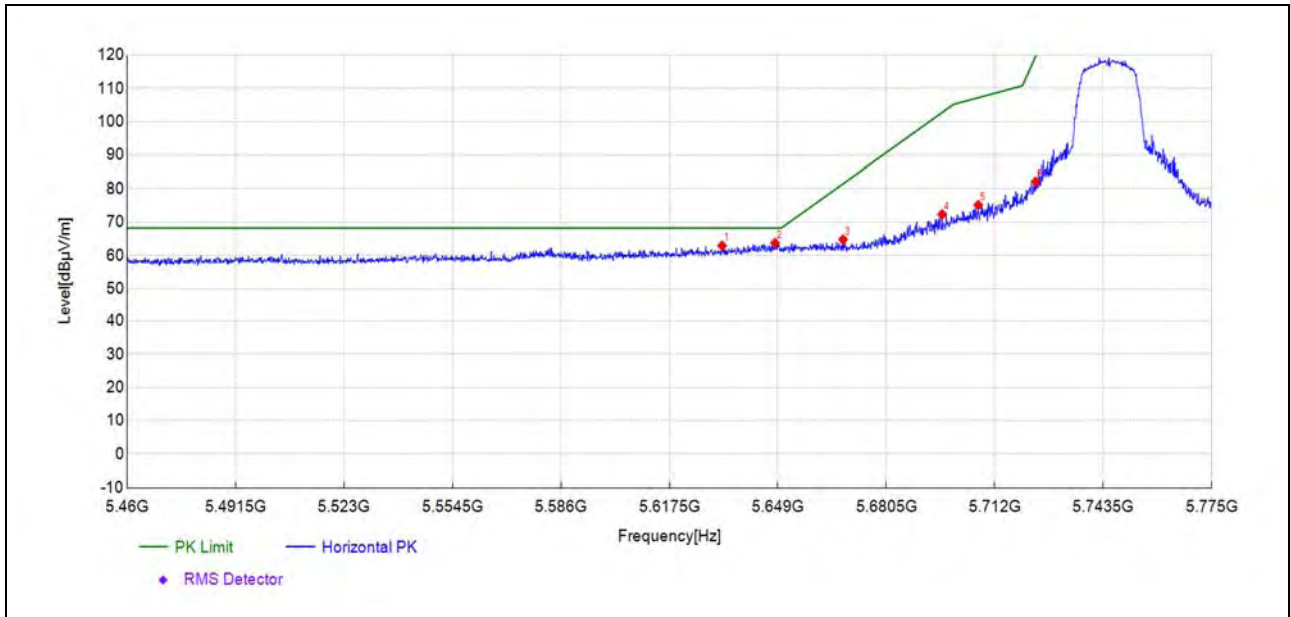
Plot for Channel 140



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5725.75	54.1	63.39	9.270	68.23	4.84	165	274	PK	PASS
5728.75	52.6	61.95	9.310	68.23	6.28	165	342	PK	PASS
5737.50	51.3	60.74	9.450	68.23	7.49	165	353	PK	PASS
5741.00	50.4	59.87	9.500	68.23	8.36	165	353	PK	PASS
5748.00	47.8	57.41	9.610	68.23	10.82	165	274	PK	PASS
5756.25	46.4	56.09	9.650	68.23	12.14	165	356	PK	PASS

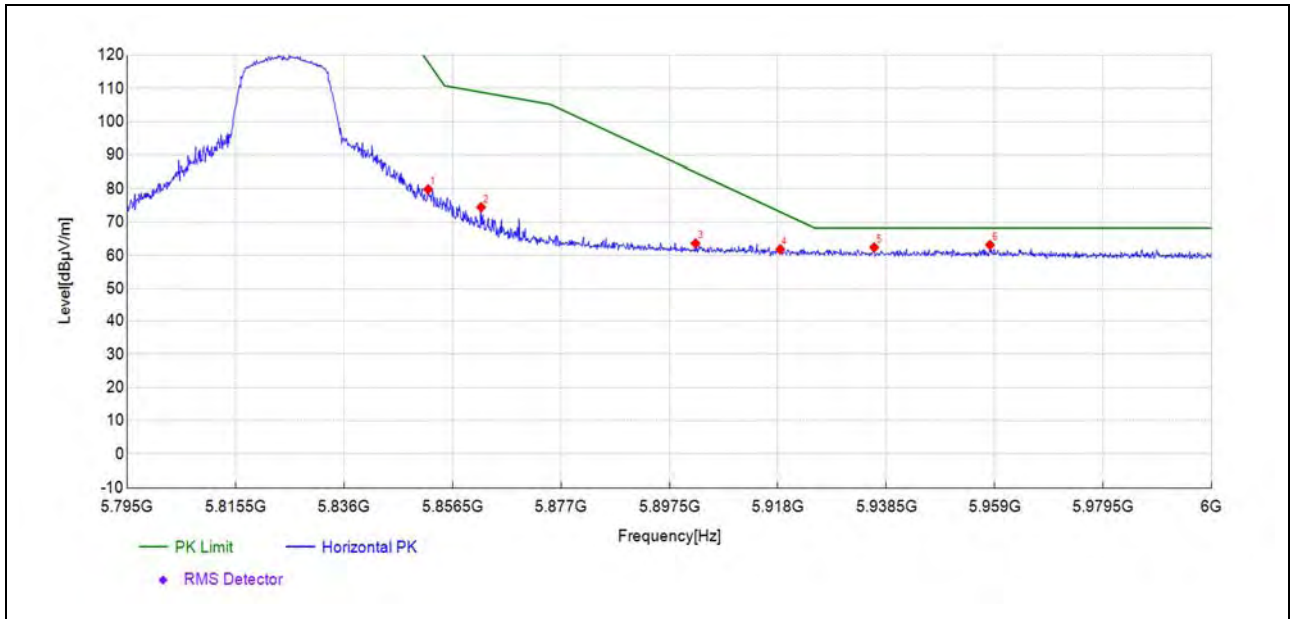


Plot for Channel 149



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5632.82	42.2	62.92	20.700	68.23	5.31	165	278	PK	PASS
5648.20	42.8	63.74	20.970	68.23	4.49	165	278	PK	PASS
5667.96	43.8	64.76	20.960	81.52	16.76	165	278	PK	PASS
5696.72	51.5	72.34	20.890	102.80	30.46	165	272	PK	PASS
5707.22	54.1	75.12	20.990	107.25	32.13	165	265	PK	PASS
5723.85	61.0	82.20	21.240	119.62	37.42	165	350	PK	PASS

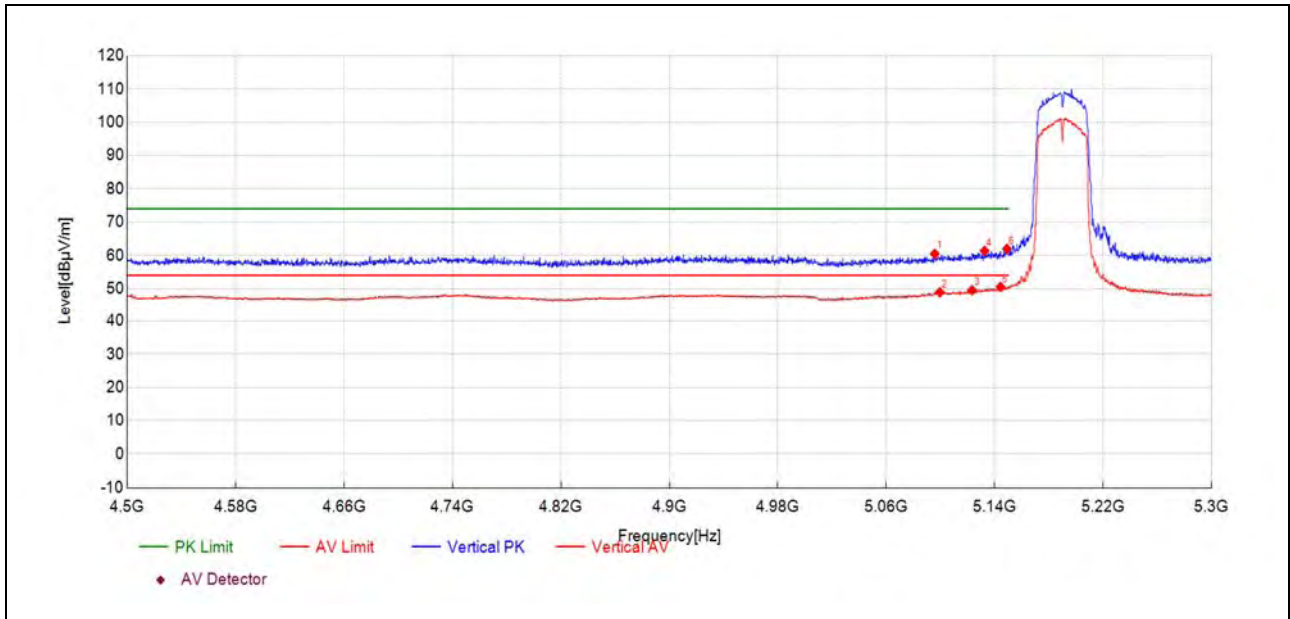
Plot for Channel 165



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5851.91	57.4	79.85	22.430	117.88	38.03	165	274	PK	PASS
5861.92	52.2	74.50	22.280	108.89	34.39	165	266	PK	PASS
5902.44	41.9	63.62	21.730	84.92	21.30	165	266	PK	PASS
5918.45	40.0	61.83	21.870	73.08	11.25	165	329	PK	PASS
5936.21	40.4	62.42	22.010	68.23	5.81	165	274	PK	PASS
5958.10	41.1	63.15	22.060	68.23	5.08	165	266	PK	PASS

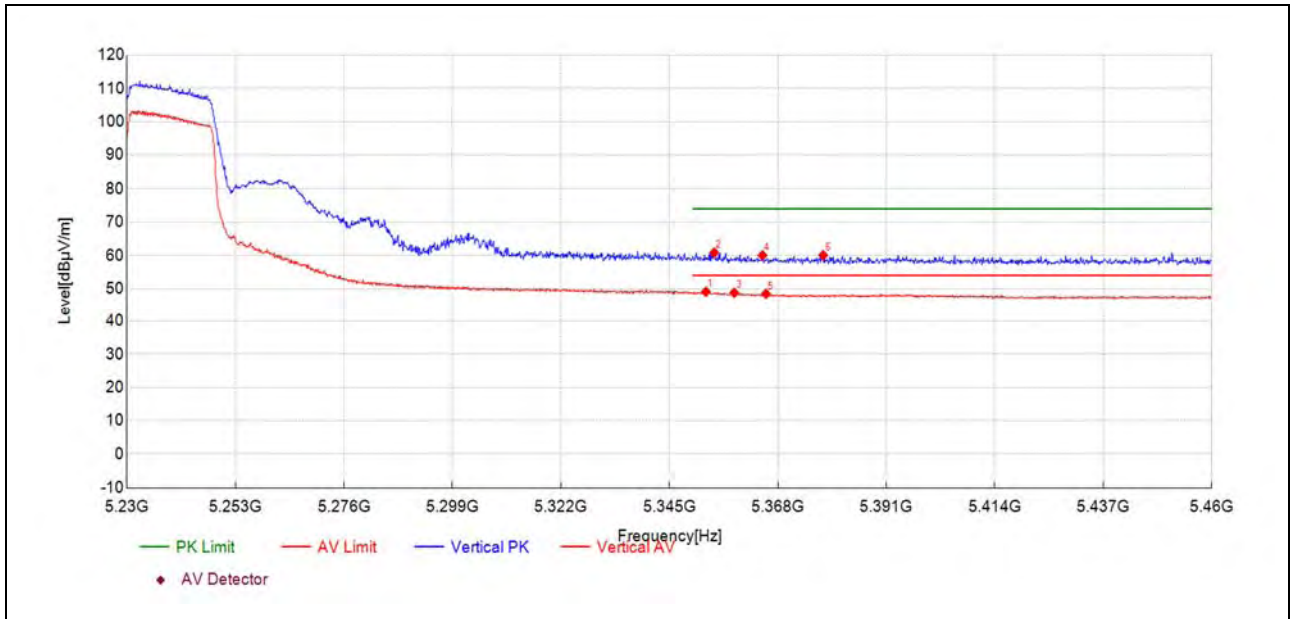
**802.11n (HT40) Mode**

Plot for Channel 38



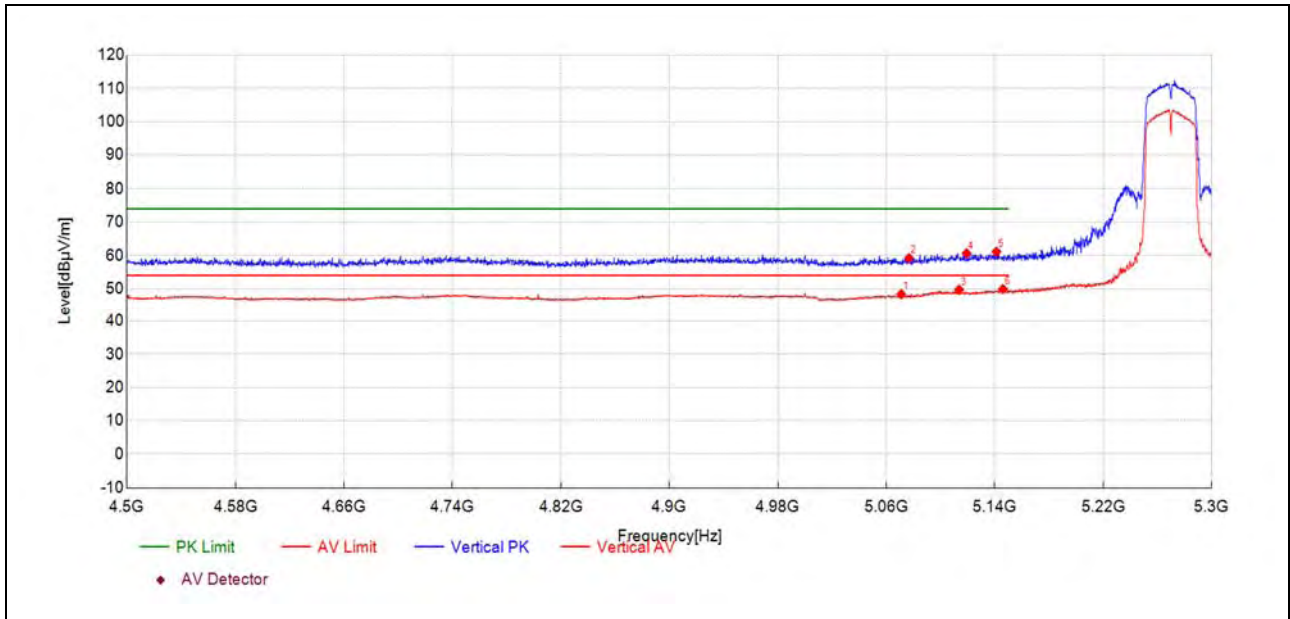
Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5095.75	40.0	60.45	20.490	74.00	13.55	165	328	PK	PASS
5099.50	28.4	48.90	20.520	54.00	5.10	165	216	AV	PASS
5123.25	29.1	49.53	20.420	54.00	4.47	165	216	AV	PASS
5132.50	41.0	61.34	20.390	74.00	12.66	165	289	PK	PASS
5144.25	30.2	50.51	20.340	54.00	3.49	165	289	AV	PASS
5149.00	41.6	61.96	20.320	74.00	12.04	165	225	PK	PASS

Plot for Channel 46



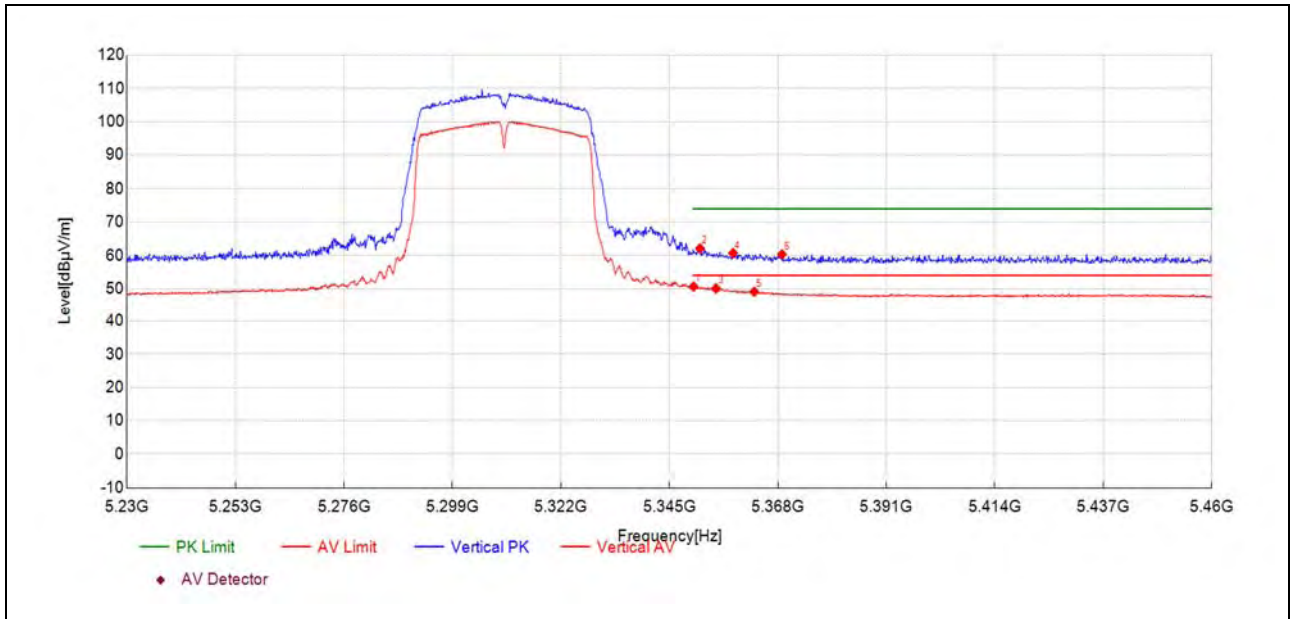
Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5352.75	29.2	49.09	19.930	54.00	4.91	165	291	AV	PASS
5354.50	40.9	60.83	19.930	74.00	13.17	165	291	PK	PASS
5358.75	28.9	48.77	19.920	54.00	5.23	165	291	AV	PASS
5364.75	40.1	60.02	19.910	74.00	13.98	165	311	PK	PASS
5365.50	28.5	48.43	19.910	54.00	5.57	165	281	AV	PASS
5377.63	40.2	60.07	19.870	74.00	13.93	165	170	PK	PASS

Plot for Channel 54



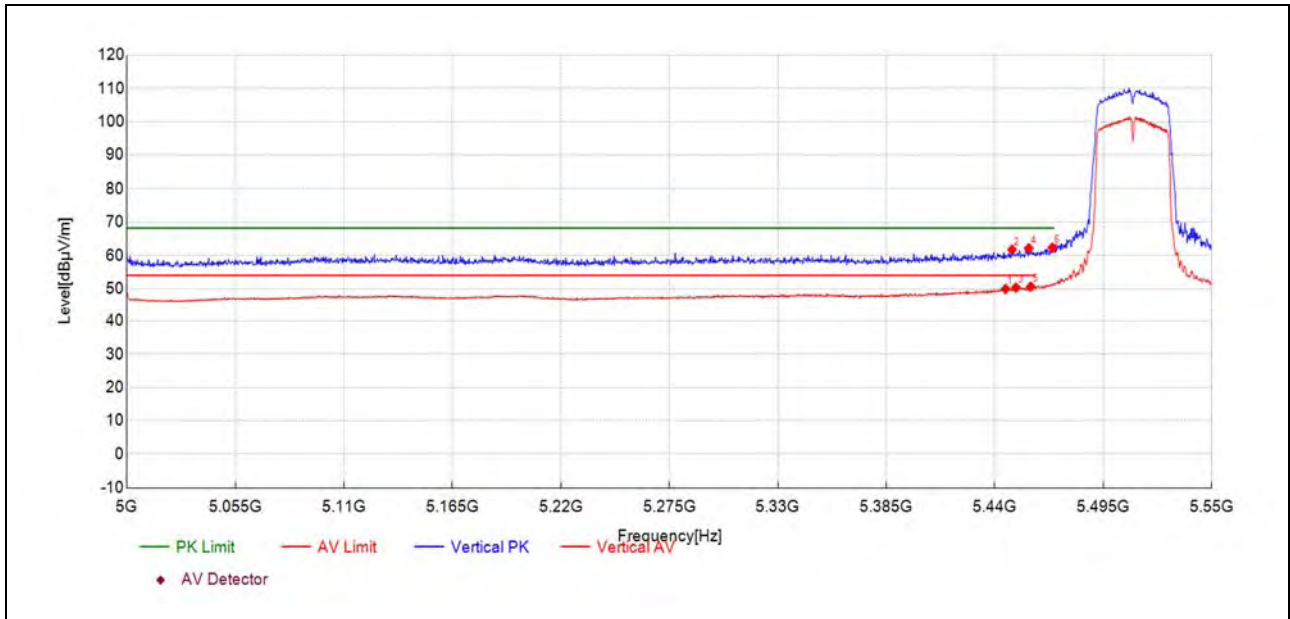
Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5071.00	28.0	48.35	20.330	54.00	5.65	165	224	AV	PASS
5076.75	38.8	59.16	20.370	74.00	14.84	165	318	PK	PASS
5113.75	29.2	49.69	20.460	54.00	4.31	165	224	AV	PASS
5119.25	40.2	60.61	20.440	74.00	13.39	165	287	PK	PASS
5141.25	40.7	61.10	20.360	74.00	12.90	165	329	PK	PASS
5146.00	29.6	49.89	20.340	54.00	4.11	165	287	AV	PASS

Plot for Channel 62



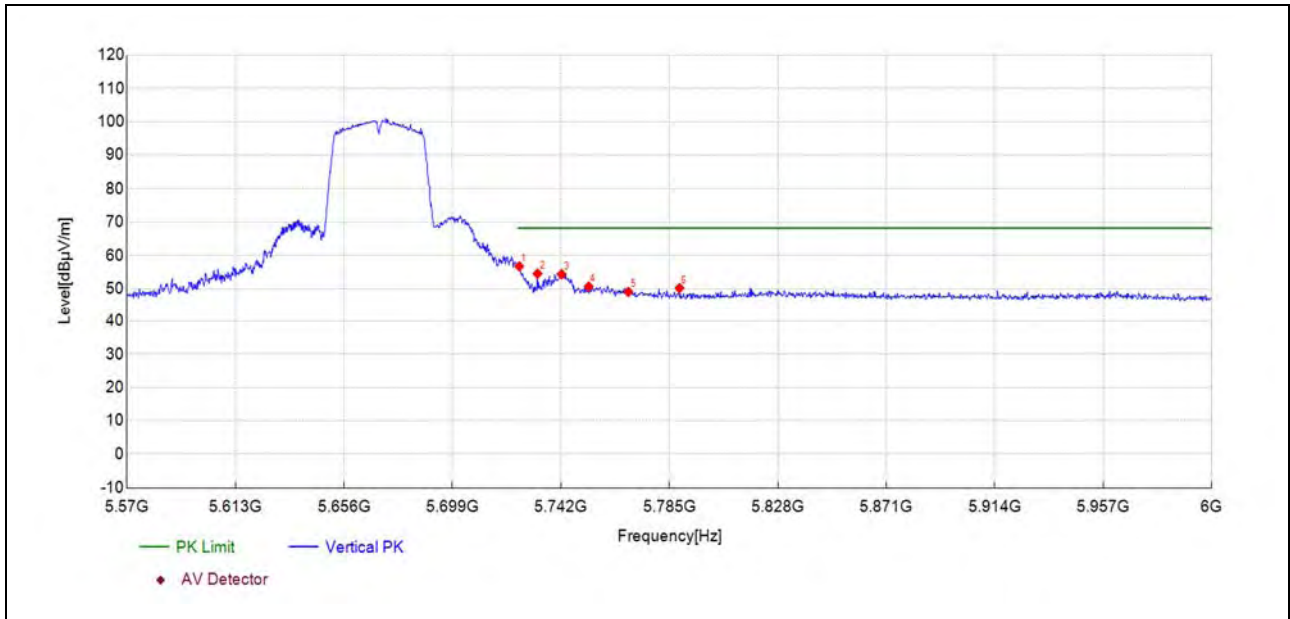
Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5350.13	30.7	50.64	19.940	54.00	3.36	165	292	AV	PASS
5351.50	42.2	62.11	19.940	74.00	11.89	165	271	PK	PASS
5354.88	30.2	50.08	19.930	54.00	3.92	165	301	AV	PASS
5358.50	40.8	60.70	19.920	74.00	13.30	165	221	PK	PASS
5363.00	29.2	49.09	19.910	54.00	4.91	165	301	AV	PASS
5368.88	40.4	60.33	19.900	74.00	13.67	165	281	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
5445.50	29.5	49.92	20.420	54.00	4.08	165	310	AV	PASS
5448.75	41.3	61.74	20.460	68.23	6.49	165	228	PK	PASS
5450.75	29.8	50.31	20.470	54.00	3.69	165	239	AV	PASS
5457.25	41.7	62.17	20.440	68.23	6.06	165	300	PK	PASS
5458.25	30.2	50.58	20.430	54.00	3.42	165	310	AV	PASS
5469.25	42.0	62.35	20.370	68.23	5.88	165	289	PK	PASS

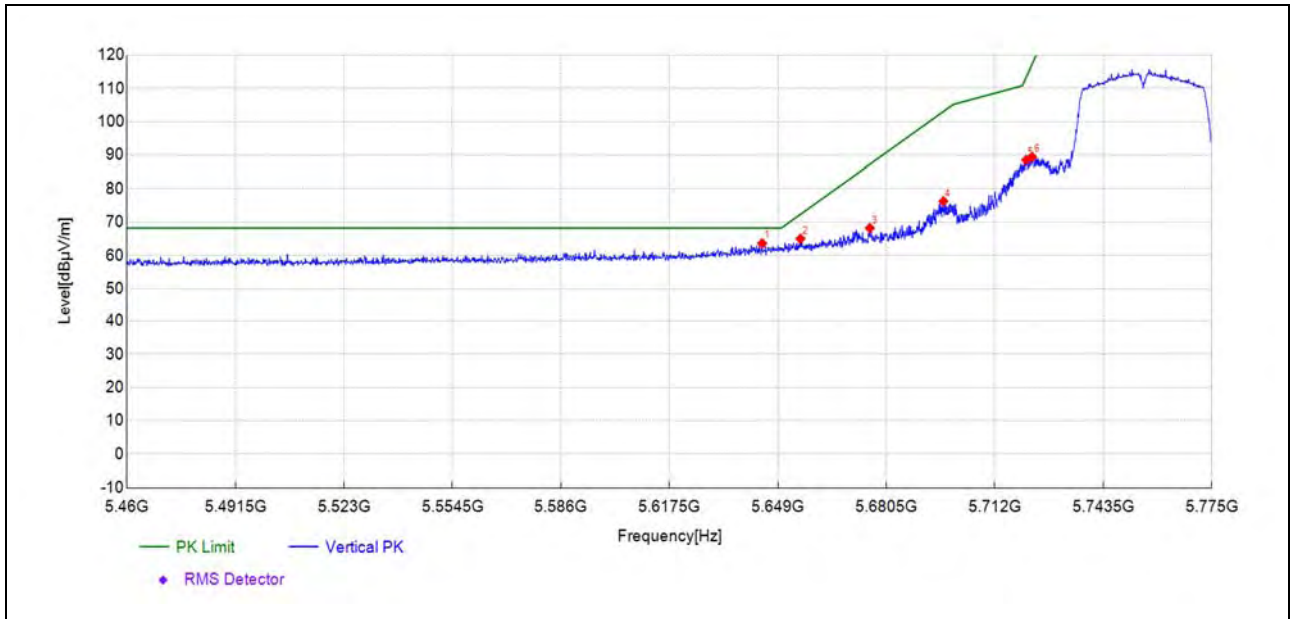
Plot for Channel 134



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5725.50	47.5	56.73	9.270	68.23	11.50	165	336	PK	PASS
5732.75	45.1	54.52	9.380	68.23	13.71	165	336	PK	PASS
5742.25	44.8	54.34	9.520	68.23	13.89	165	243	PK	PASS
5753.00	41.0	50.63	9.640	68.23	17.60	165	307	PK	PASS
5768.75	39.4	49.04	9.660	68.23	19.19	165	261	PK	PASS
5789.00	40.5	50.15	9.690	68.23	18.08	165	261	PK	PASS

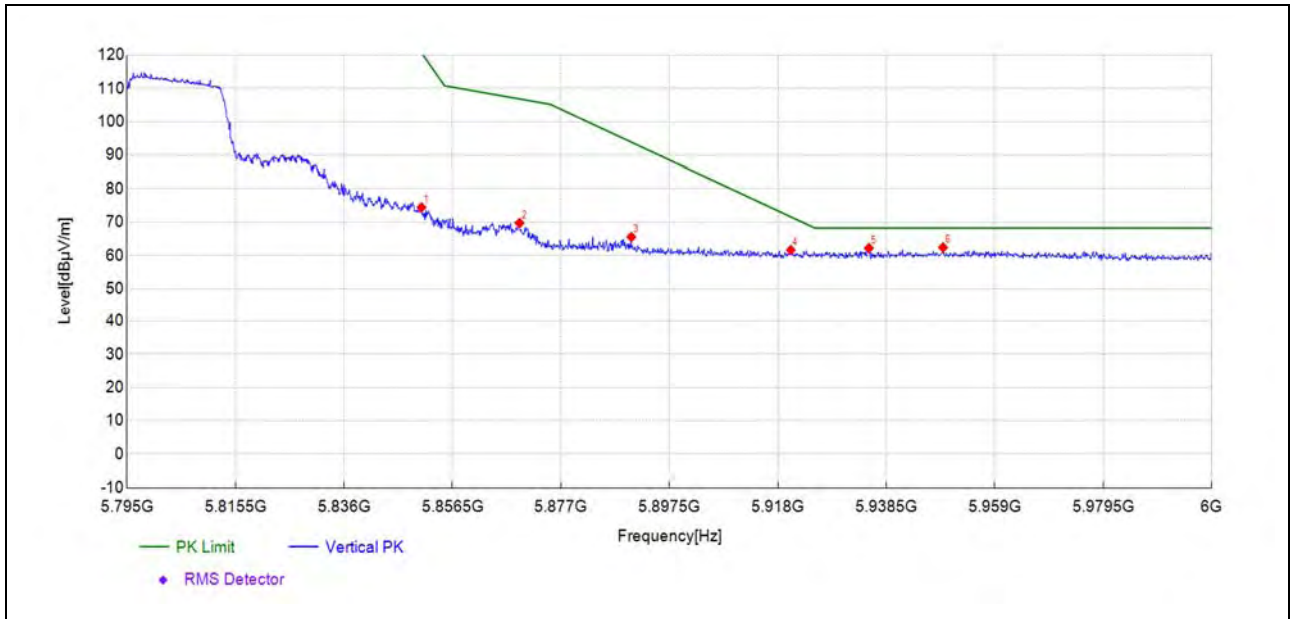


Plot for Channel 151



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5644.45	42.7	63.63	20.910	68.23	4.60	165	331	PK	PASS
5655.58	44.0	65.01	20.990	72.36	7.35	165	331	PK	PASS
5675.71	47.3	68.23	20.940	87.26	19.03	165	331	PK	PASS
5697.09	55.4	76.28	20.890	103.08	26.80	165	331	PK	PASS
5721.10	67.3	88.53	21.210	113.35	24.82	165	331	PK	PASS
5722.85	68.2	89.41	21.230	117.34	27.93	165	331	PK	PASS

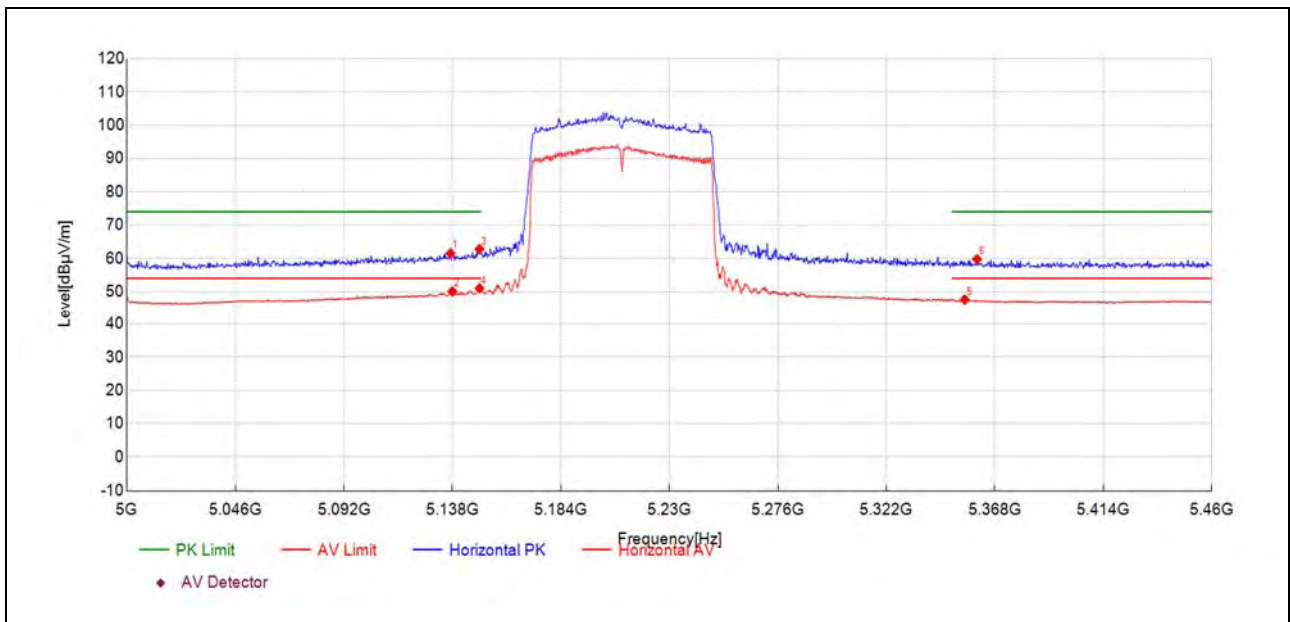
Plot for Channel 159



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5850.66	52.0	74.44	22.450	120.73	46.29	165	238	PK	PASS
5869.17	47.6	69.74	22.170	106.86	37.12	165	230	PK	PASS
5890.31	43.7	65.53	21.870	93.90	28.37	165	238	PK	PASS
5920.45	39.7	61.62	21.880	71.60	9.98	165	230	PK	PASS
5935.21	40.2	62.20	22.000	68.23	6.03	165	248	PK	PASS
5949.22	40.3	62.38	22.120	68.23	5.85	165	350	PK	PASS

**802.11ac (VHT80) Mode**

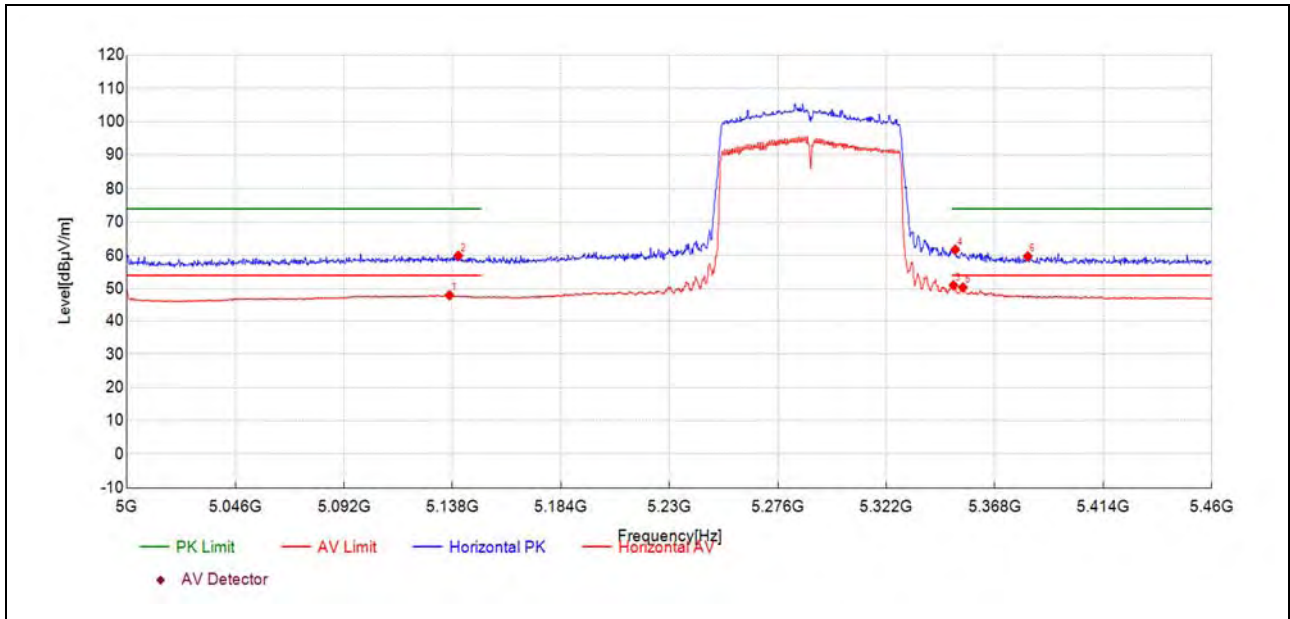
Plot for Channel 42



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5137.25	41.1	61.50	20.380	74.00	12.50	165	331	PK	PASS
5138.00	29.7	50.03	20.360	54.00	3.97	165	282	AV	PASS
5149.50	42.5	62.79	20.320	74.00	11.21	165	282	PK	PASS
5149.50	30.7	50.99	20.320	54.00	3.01	165	282	AV	PASS
5355.25	27.7	47.61	19.930	54.00	6.39	165	282	AV	PASS
5360.50	39.8	59.73	19.920	74.00	14.27	165	91	PK	PASS



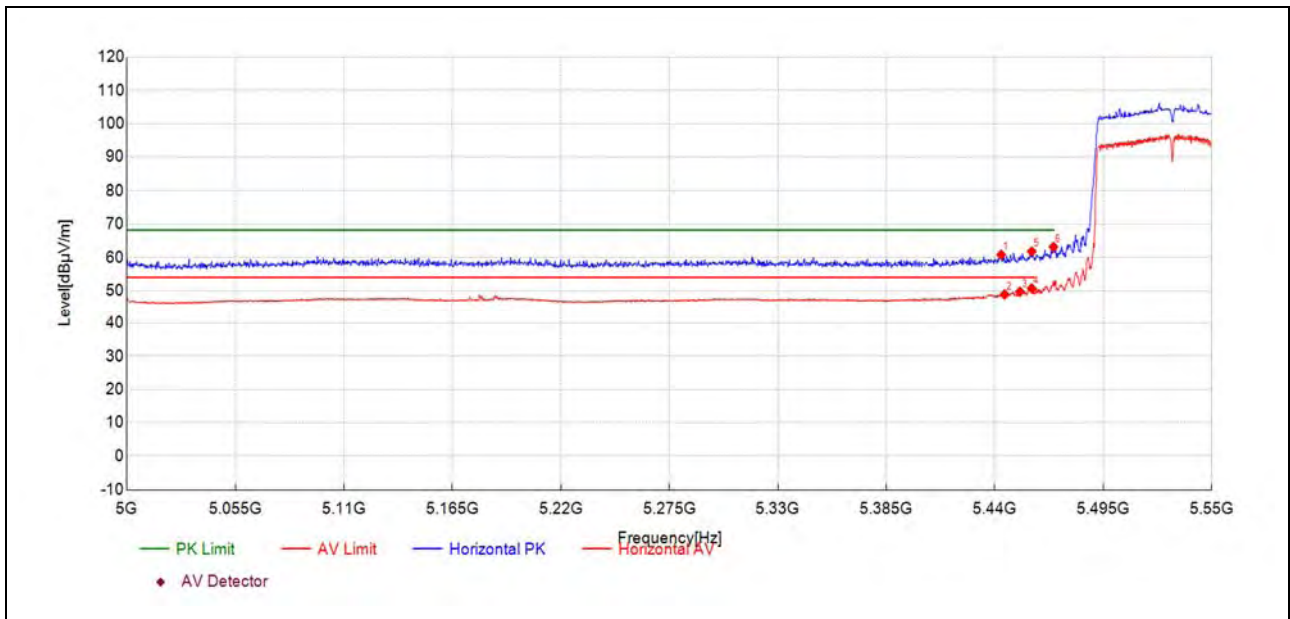
Plot for Channel 58



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5136.75	27.6	48.02	20.380	54.00	5.98	165	41	AV	PASS
5140.50	39.6	59.91	20.360	74.00	14.09	165	5	PK	PASS
5350.50	31.1	50.99	19.940	54.00	3.01	165	281	AV	PASS
5351.25	41.8	61.73	19.940	74.00	12.27	165	0	PK	PASS
5354.50	30.4	50.37	19.930	54.00	3.63	165	281	AV	PASS
5382.00	39.8	59.71	19.870	74.00	14.29	165	350	PK	PASS

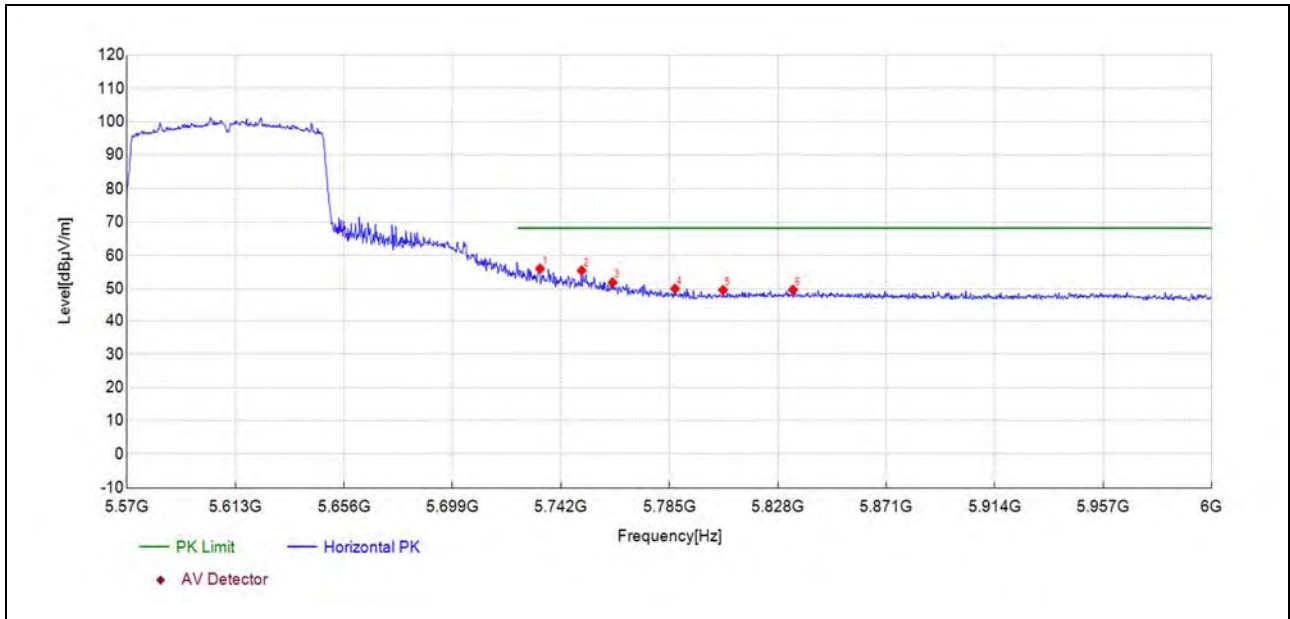


Plot for Channel 106



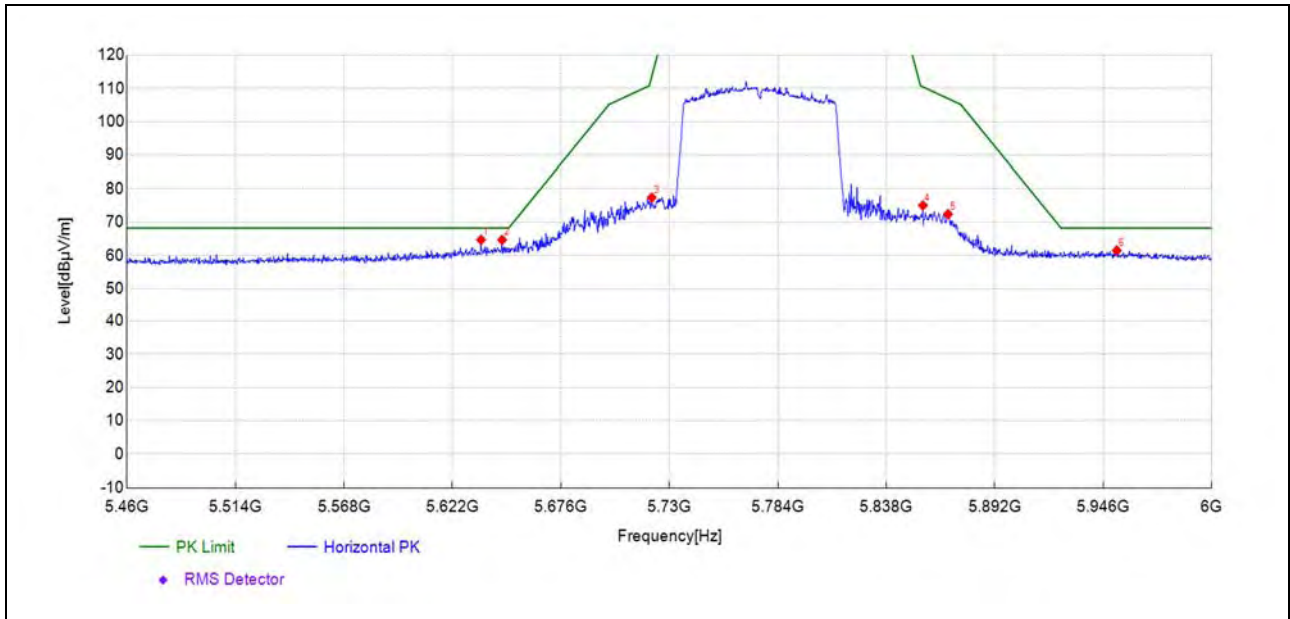
Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5443.25	40.4	60.82	20.380	68.23	7.41	165	310	PK	PASS
5445.00	28.4	48.85	20.410	54.00	5.15	165	279	AV	PASS
5452.75	29.3	49.70	20.450	54.00	4.30	165	279	AV	PASS
5458.75	30.2	50.67	20.430	54.00	3.33	165	279	AV	PASS
5458.75	41.4	61.78	20.430	68.23	6.45	165	279	PK	PASS
5469.75	42.8	63.17	20.370	68.23	5.06	165	279	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
5733.75	46.6	56.01	9.390	68.23	12.22	165	4	PK	PASS
5750.25	45.8	55.40	9.640	68.23	12.83	165	280	PK	PASS
5762.50	42.2	51.86	9.650	68.23	16.37	165	354	PK	PASS
5787.25	40.3	49.99	9.680	68.23	18.24	165	358	PK	PASS
5806.25	39.8	49.59	9.790	68.23	18.64	165	4	PK	PASS
5834.00	39.4	49.63	10.210	68.23	18.60	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
5636.25	43.9	64.70	20.770	68.23	3.53	165	271	PK	PASS
5646.75	43.7	64.65	20.940	68.23	3.58	165	271	PK	PASS
5721.25	56.2	77.38	21.210	113.68	36.30	165	329	PK	PASS
5856.25	52.7	75.03	22.360	110.48	35.45	165	281	PK	PASS
5868.75	50.2	72.41	22.180	106.98	34.57	165	271	PK	PASS
5952.75	39.4	61.49	22.100	68.23	6.74	165	354	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.

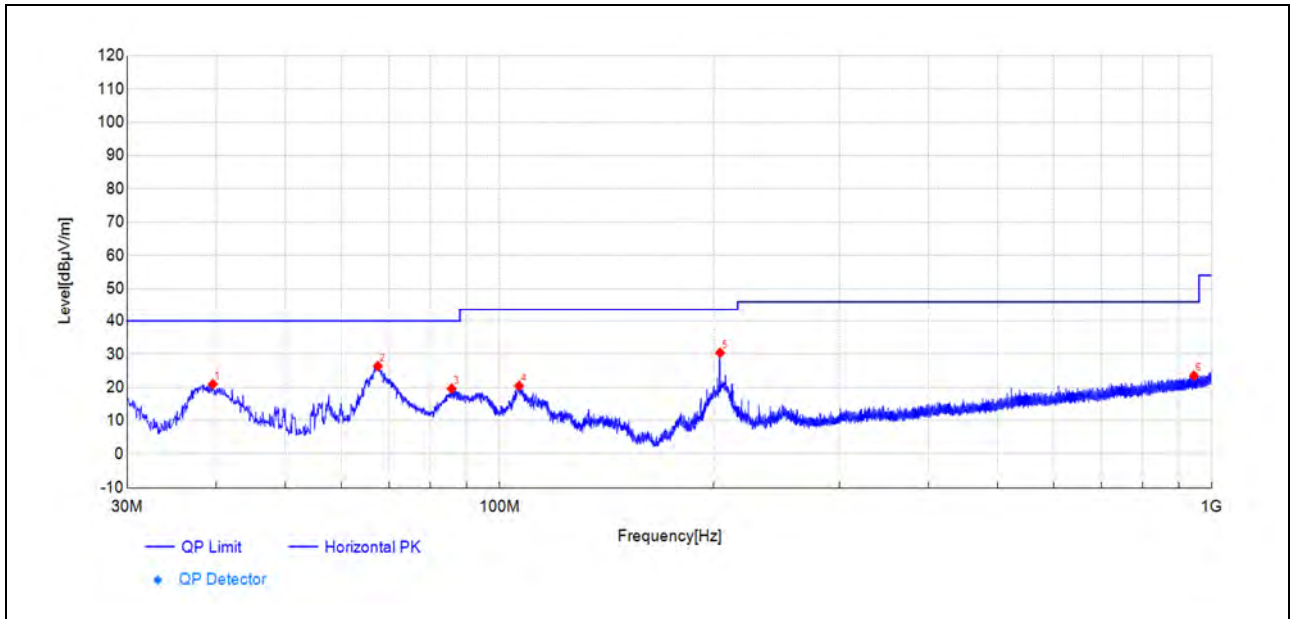
Note2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

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.

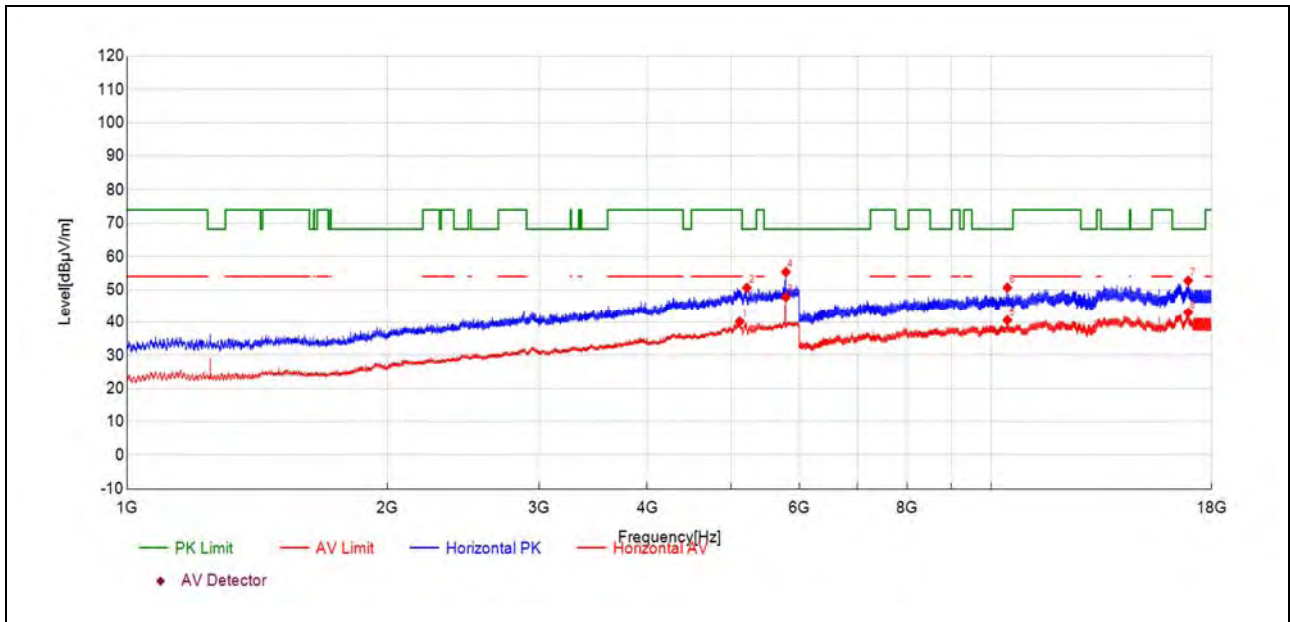
**802.11a Mode**

Plot for Channel 44



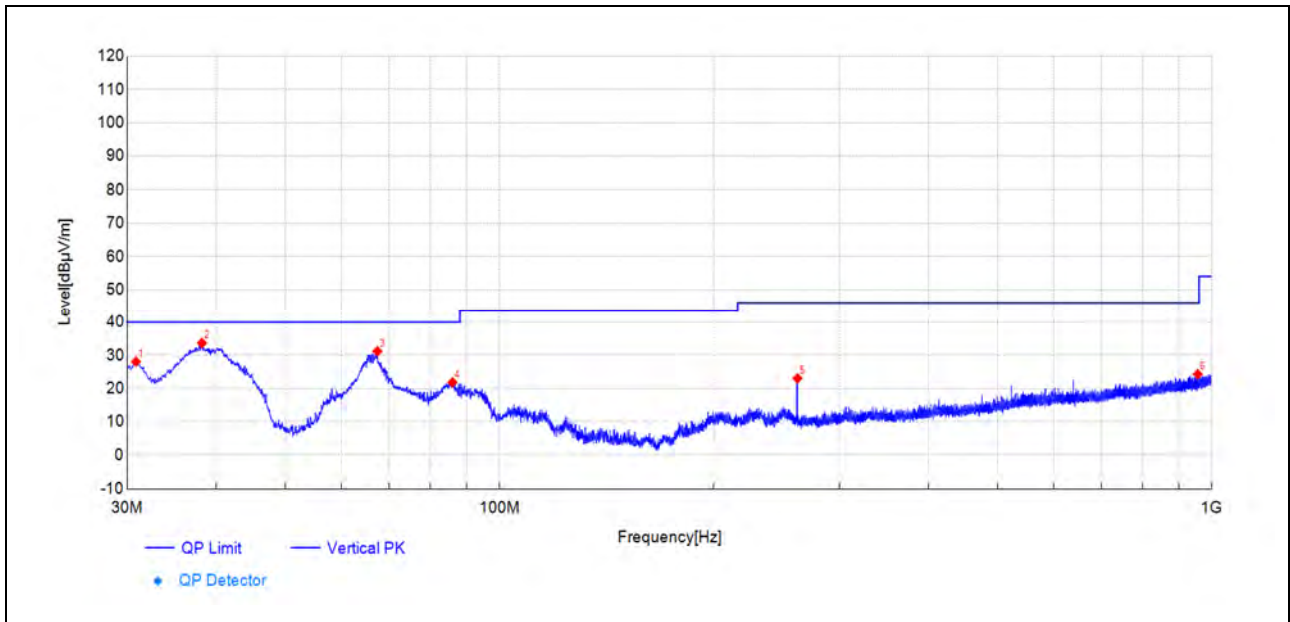
(Antenna Horizontal, 30MHz to 1GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
39.58	50.2	20.99	-29.240	40.00	19.01	165	105	PK	PASS
67.51	60.0	26.43	-33.580	40.00	13.57	165	180	PK	PASS
85.68	53.3	19.62	-33.700	40.00	20.38	165	360	PK	PASS
106.55	51.0	20.50	-30.460	43.50	23.00	165	11	PK	PASS
204.02	60.6	30.41	-30.190	43.50	13.09	165	162	PK	PASS
944.27	37.9	23.52	-14.360	46.00	22.48	165	360	PK	PASS



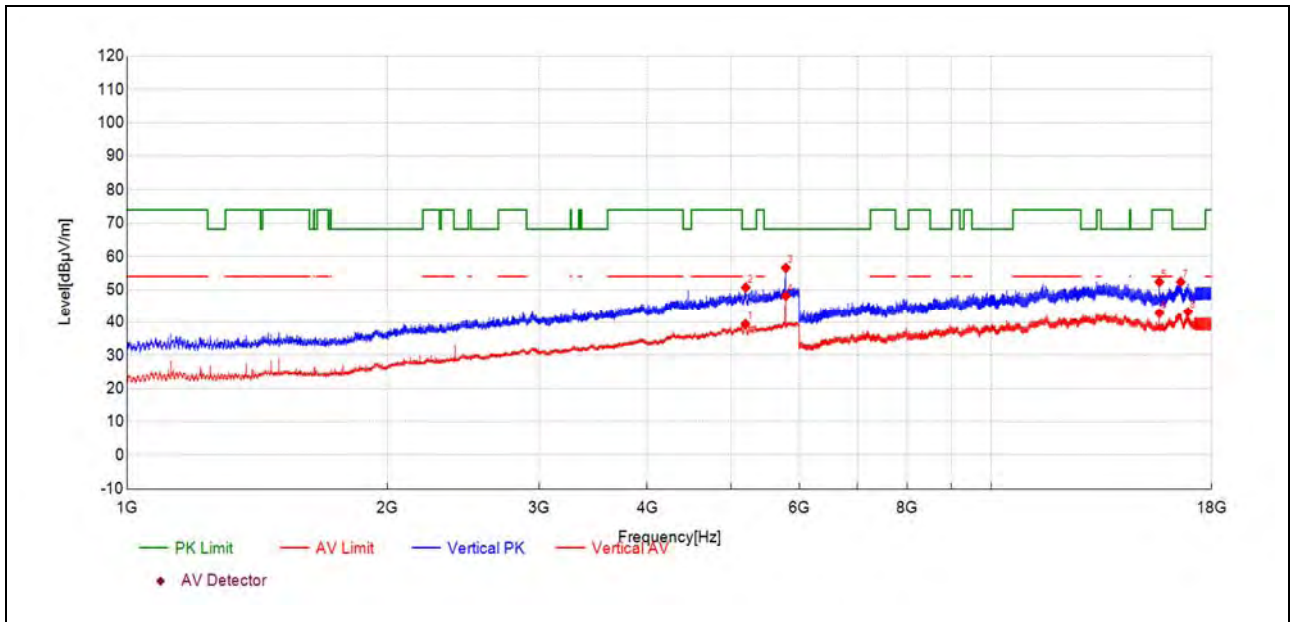
(Antenna Horizontal, 1GHz to 18GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5118.38	30.1	40.16	10.070	54.00	13.84	165	284	AV	PASS
5215.95	40.4	50.56	10.170	68.23	17.67	165	270	PK	PASS
5787.02	35.7	47.75	12.020	-	-	165	127	AV	NA
5787.02	43.3	55.33	12.020	68.23	12.90	165	127	PK	PASS
10440.92	41.1	40.59	-0.550	-	-	165	359	AV	NA
10440.92	51.2	50.62	-0.550	68.23	17.61	165	359	PK	PASS
16901.85	45.5	52.71	7.260	68.23	15.52	165	359	PK	PASS
16905.83	35.8	42.94	7.170	-	-	165	325	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
30.88	61.1	28.12	-32.940	40.00	11.88	165	190	PK	PASS
38.23	63.3	33.69	-29.650	40.00	6.31	165	227	PK	PASS
67.39	64.7	31.19	-33.540	40.00	8.81	165	190	PK	PASS
85.91	55.5	21.85	-33.610	40.00	18.15	165	302	PK	PASS
262.11	51.0	23.05	-27.920	46.00	22.95	165	349	PK	PASS
955.61	38.4	24.31	-14.120	46.00	21.69	165	58	PK	PASS

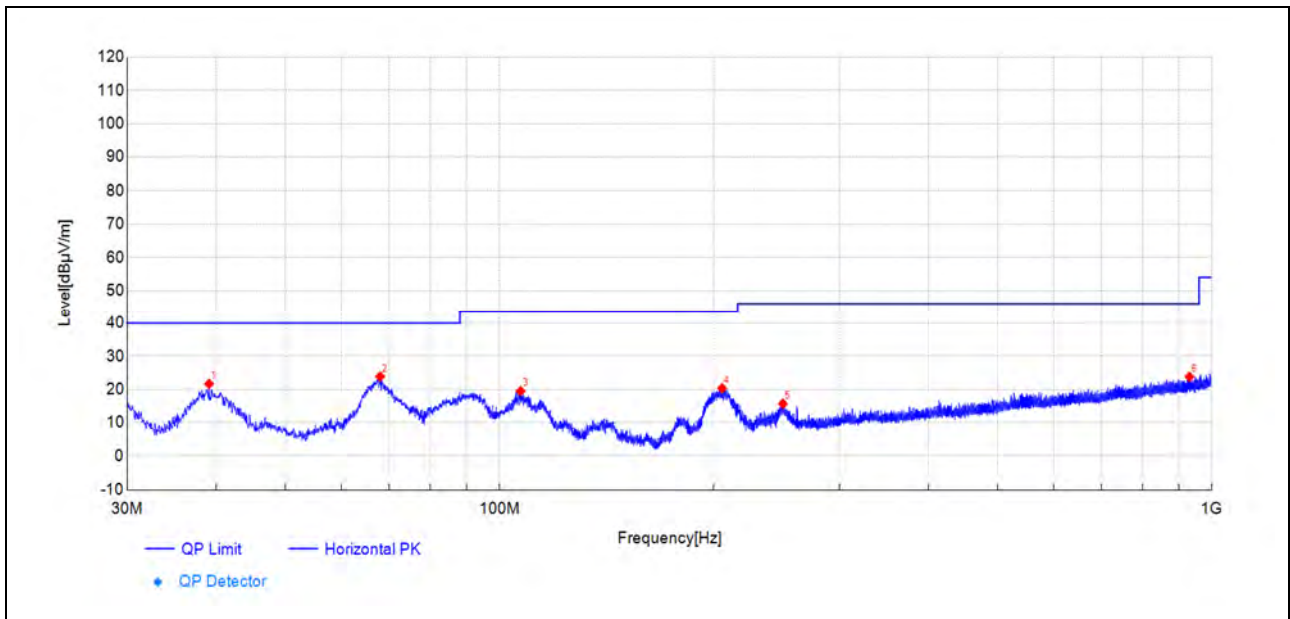


(Antenna Vertical, 1GHz to 18GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5196.63	29.1	39.41	10.320	-	-	165	71	AV	NA
5201.09	40.4	50.68	10.330	68.23	17.55	165	4	PK	PASS
5786.03	44.5	56.57	12.030	68.23	11.66	165	44	PK	PASS
5786.53	36.1	48.11	12.020	-	-	165	56	AV	NA
15655.78	49.6	52.33	2.700	74.00	21.67	165	268	PK	PASS
15661.76	40.1	42.79	2.720	54.00	11.21	165	85	AV	PASS
16574.64	46.1	52.32	6.210	68.23	15.91	165	63	PK	PASS
16901.35	35.9	43.15	7.270	-	-	165	359	AV	NA

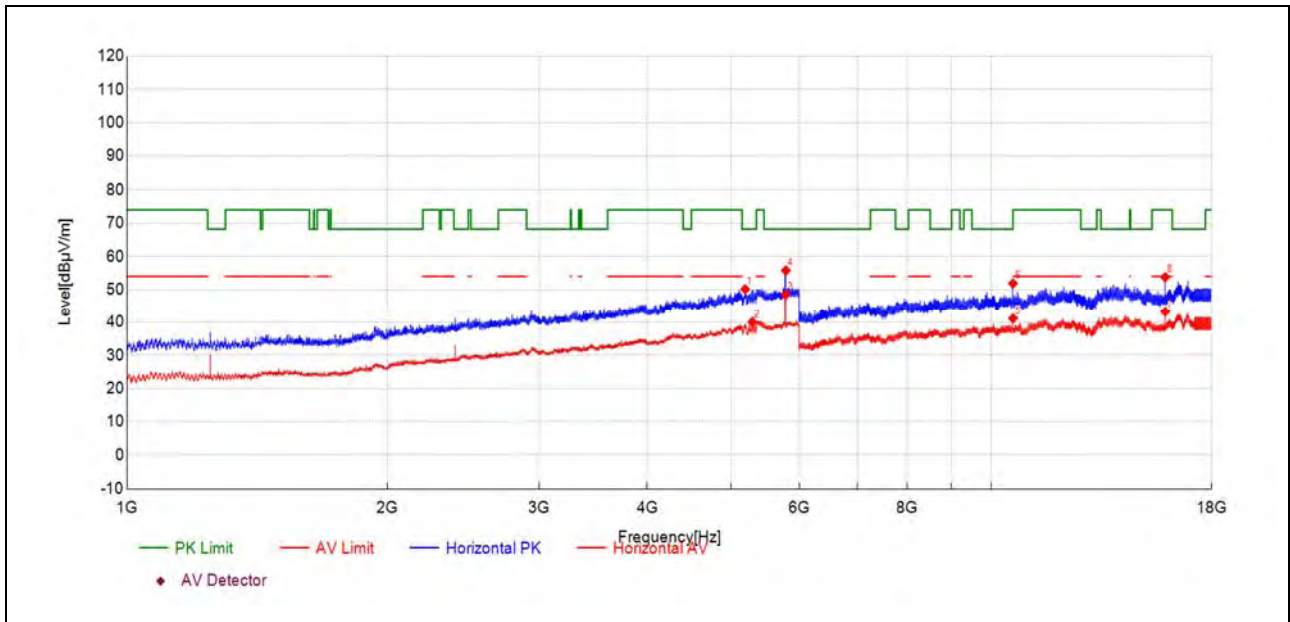


Plot for Channel 60



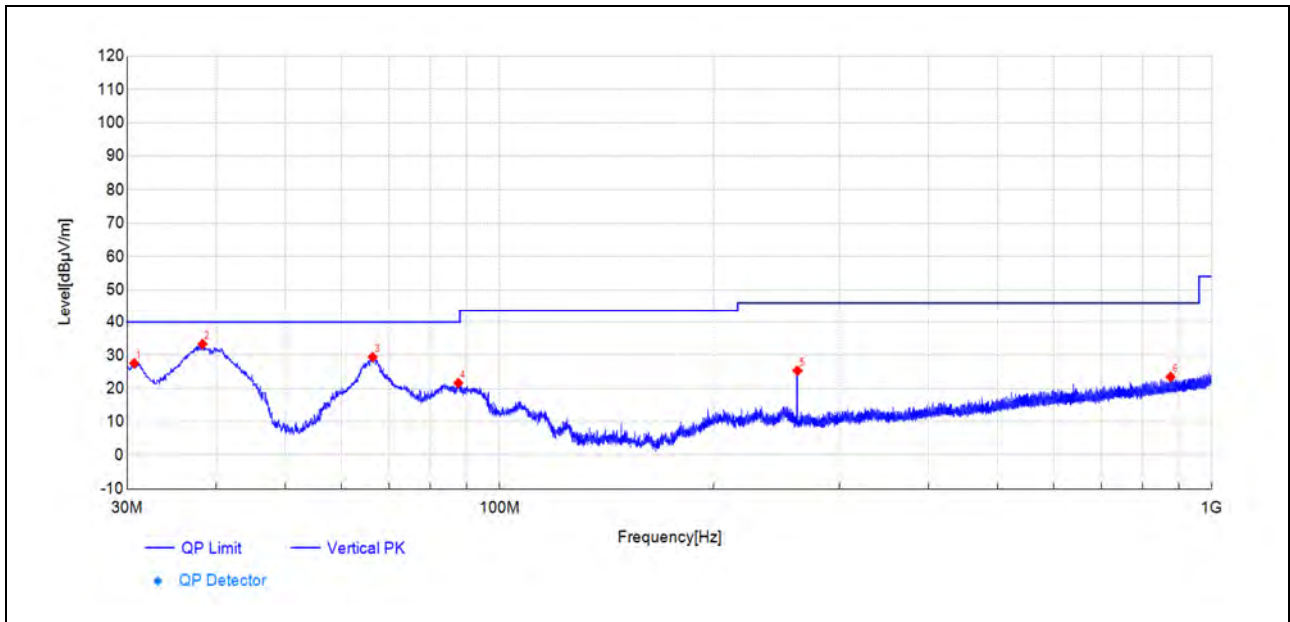
(Antenna Horizontal, 30MHz to 1GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
39.11	51.1	21.69	-29.380	40.00	18.31	165	142	PK	PASS
67.98	57.7	23.89	-33.770	40.00	16.11	165	10	PK	PASS
107.08	50.1	19.53	-30.520	43.50	23.97	165	188	PK	PASS
205.43	50.5	20.36	-30.140	43.50	23.14	165	160	PK	PASS
250.06	43.8	15.72	-28.120	46.00	30.28	165	133	PK	PASS
931.21	38.3	23.81	-14.500	46.00	22.19	165	10	PK	PASS



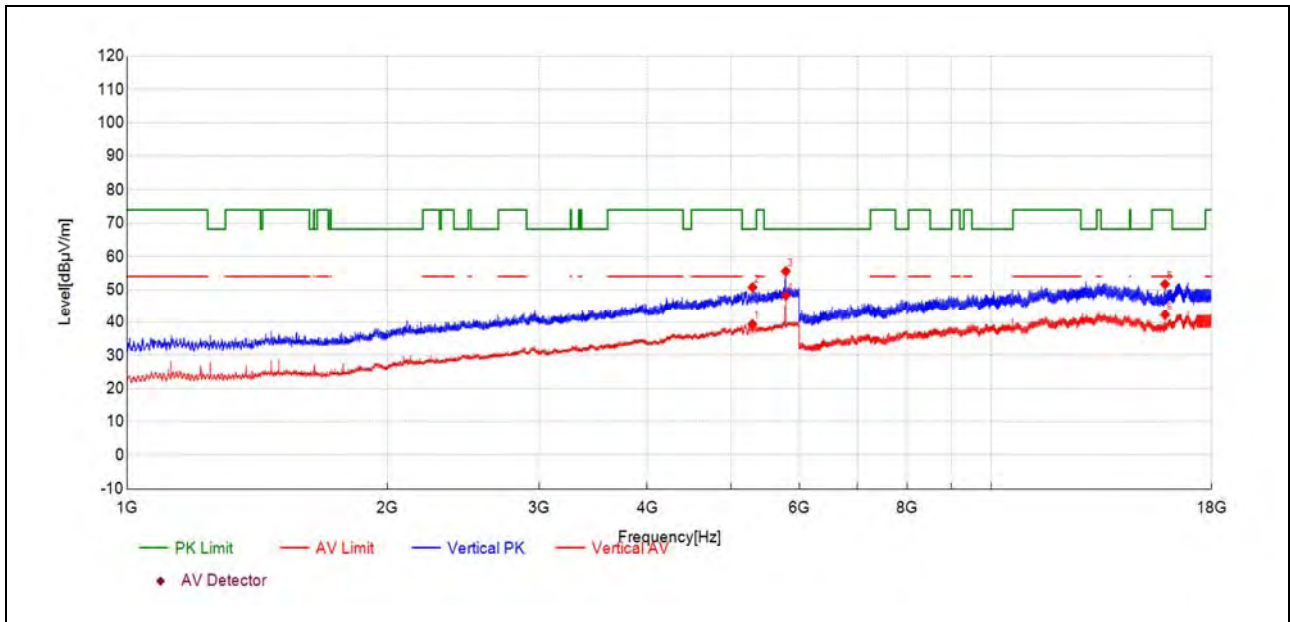
(Antenna Horizontal, 1GHz to 18GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5192.67	39.8	50.10	10.290	68.23	18.13	165	202	PK	PASS
5293.21	29.8	40.03	10.230	-	-	165	1	AV	NA
5784.05	36.4	48.48	12.050	-	-	165	162	AV	NA
5787.02	43.7	55.76	12.020	68.23	12.47	165	340	PK	PASS
10599.29	40.8	41.13	0.380	-	-	165	7	AV	NA
10600.29	51.5	51.87	0.380	74.00	22.13	165	45	PK	PASS
15900.31	41.0	43.21	2.260	54.00	10.79	165	68	AV	PASS
15901.31	51.5	53.77	2.280	74.00	20.23	165	68	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
30.71	60.6	27.59	-32.960	40.00	12.41	165	182	PK	PASS
38.29	63.0	33.35	-29.630	40.00	6.65	165	190	PK	PASS
66.39	62.6	29.44	-33.150	40.00	10.56	165	199	PK	PASS
87.56	54.6	21.65	-32.920	40.00	18.35	165	237	PK	PASS
262.11	53.3	25.35	-27.920	46.00	20.65	165	1	PK	PASS
875.36	38.9	23.50	-15.400	46.00	22.50	165	322	PK	PASS

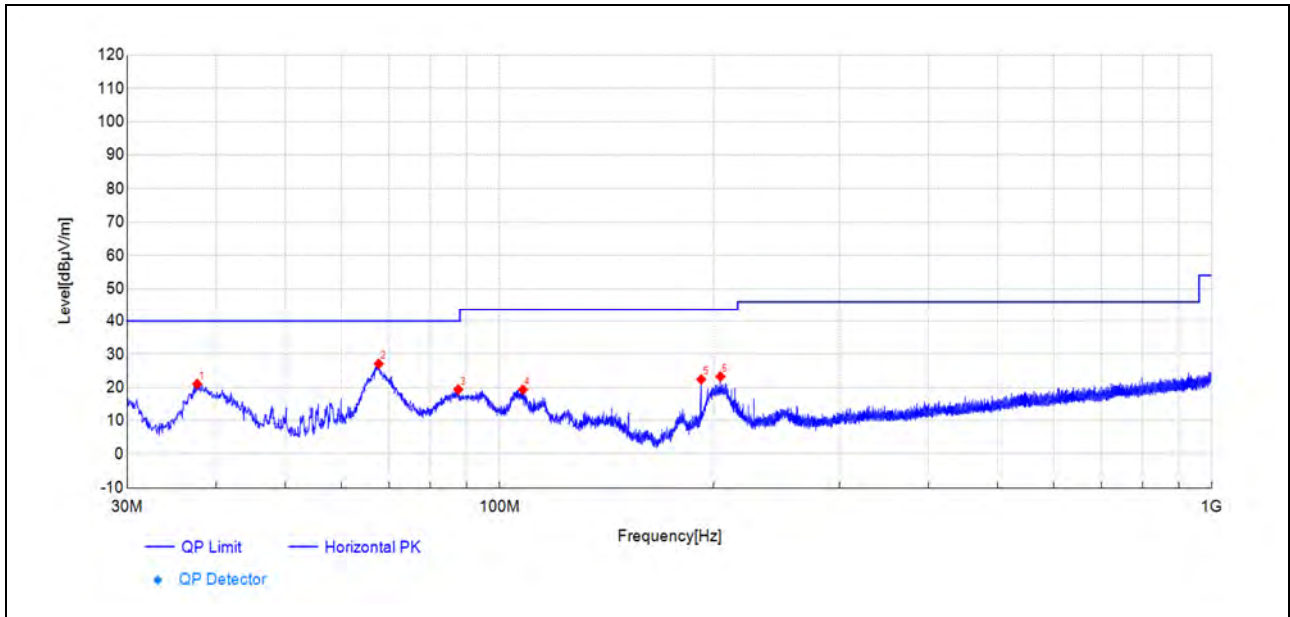


(Antenna Vertical, 1GHz to 18GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5293.21	29.1	39.34	10.230	-	-	165	90	AV	NA
5295.20	40.5	50.70	10.240	68.23	17.53	165	0	PK	PASS
5785.54	43.5	55.53	12.030	68.23	12.70	165	203	PK	PASS
5786.03	36.2	48.20	12.030	-	-	165	203	AV	NA
15895.33	49.4	51.67	2.320	74.00	22.33	165	109	PK	PASS
15897.32	39.9	42.24	2.300	54.00	11.76	165	85	AV	PASS

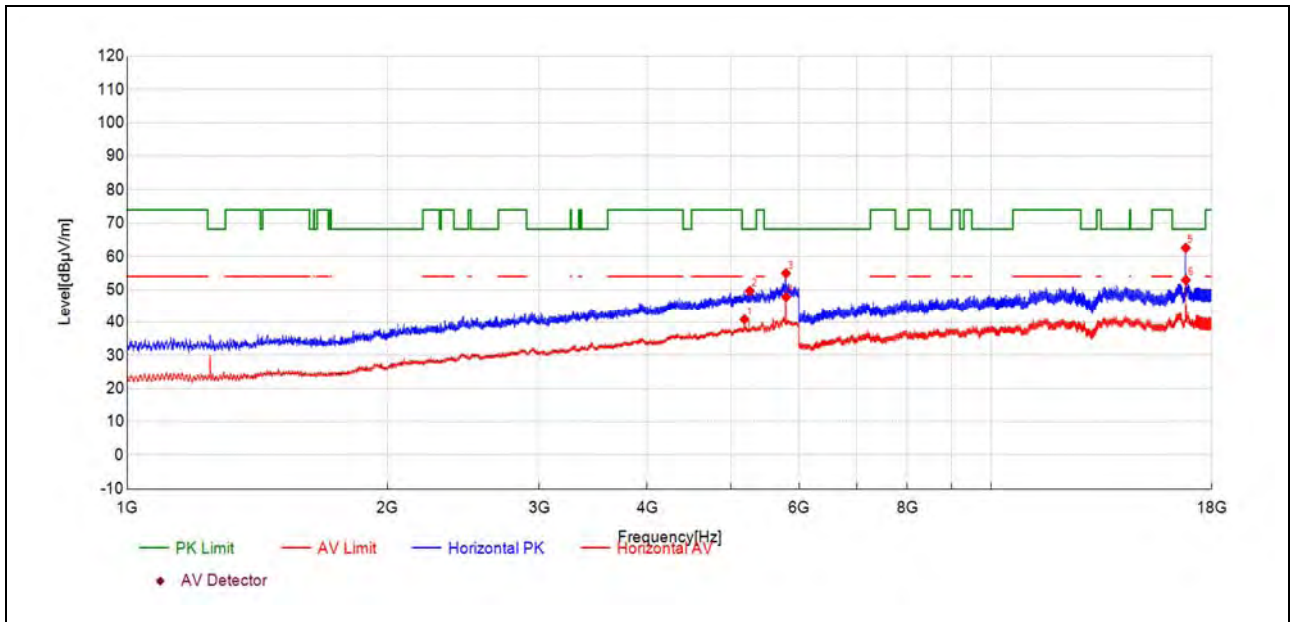


Plot for Channel 120



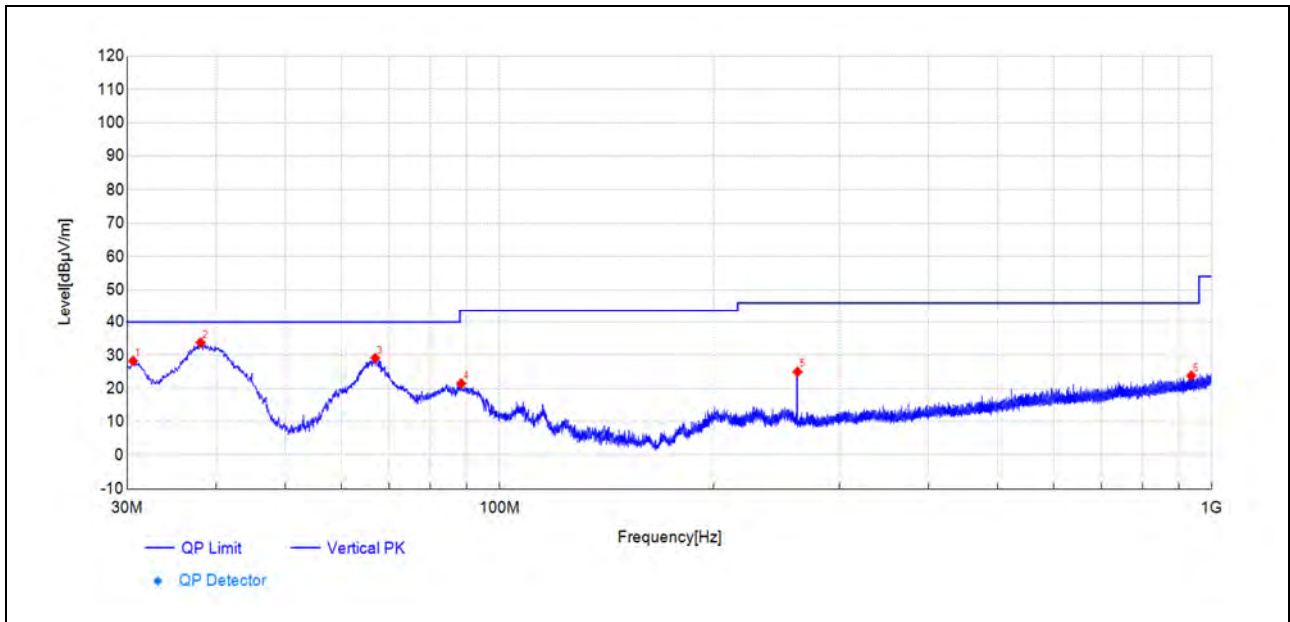
(Antenna Horizontal, 30MHz to 1GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
37.64	50.9	21.06	-29.840	40.00	18.94	165	161	PK	PASS
67.69	60.8	27.12	-33.650	40.00	12.88	165	209	PK	PASS
87.56	52.3	19.38	-32.920	40.00	20.62	165	11	PK	PASS
107.90	50.0	19.36	-30.600	43.50	24.14	165	31	PK	PASS
191.97	52.0	22.42	-29.600	43.50	21.08	165	152	PK	PASS
204.26	53.5	23.29	-30.180	43.50	20.21	165	11	PK	PASS



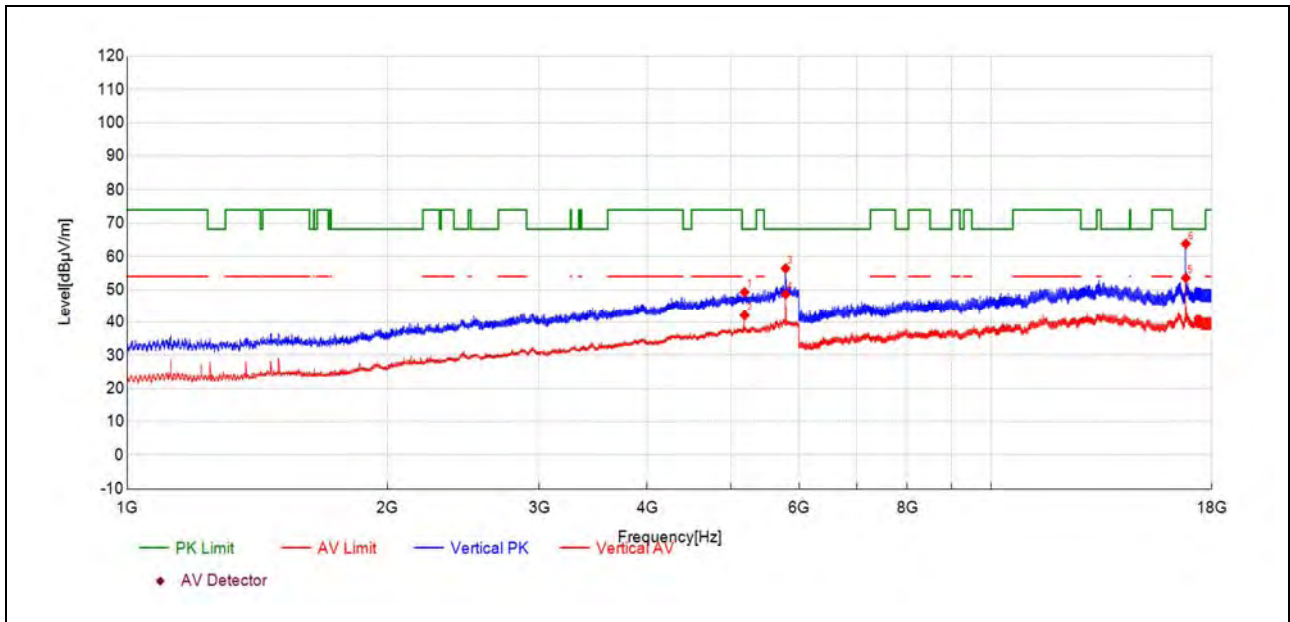
(Antenna Horizontal, 1GHz to 18GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5182.76	30.8	40.81	10.020	-	-	165	328	AV	NA
5256.56	40.0	49.62	9.670	68.23	18.61	165	353	PK	PASS
5788.01	42.5	54.94	12.470	68.23	13.29	165	68	PK	PASS
5790.49	35.3	47.78	12.450	-	-	165	260	AV	NA
16799.75	57.4	62.56	5.210	68.23	5.67	165	67	PK	PASS
16801.74	47.7	52.90	5.240	-	-	165	67	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
30.59	61.3	28.32	-32.970	40.00	11.68	165	70	PK	PASS
38.05	63.6	33.84	-29.710	40.00	6.16	165	220	PK	PASS
66.92	62.5	29.16	-33.360	40.00	10.84	165	144	PK	PASS
88.38	54.1	21.52	-32.580	43.50	21.98	165	284	PK	PASS
262.11	52.9	25.01	-27.920	46.00	20.99	165	191	PK	PASS
936.27	38.3	23.86	-14.440	46.00	22.14	165	22	PK	PASS

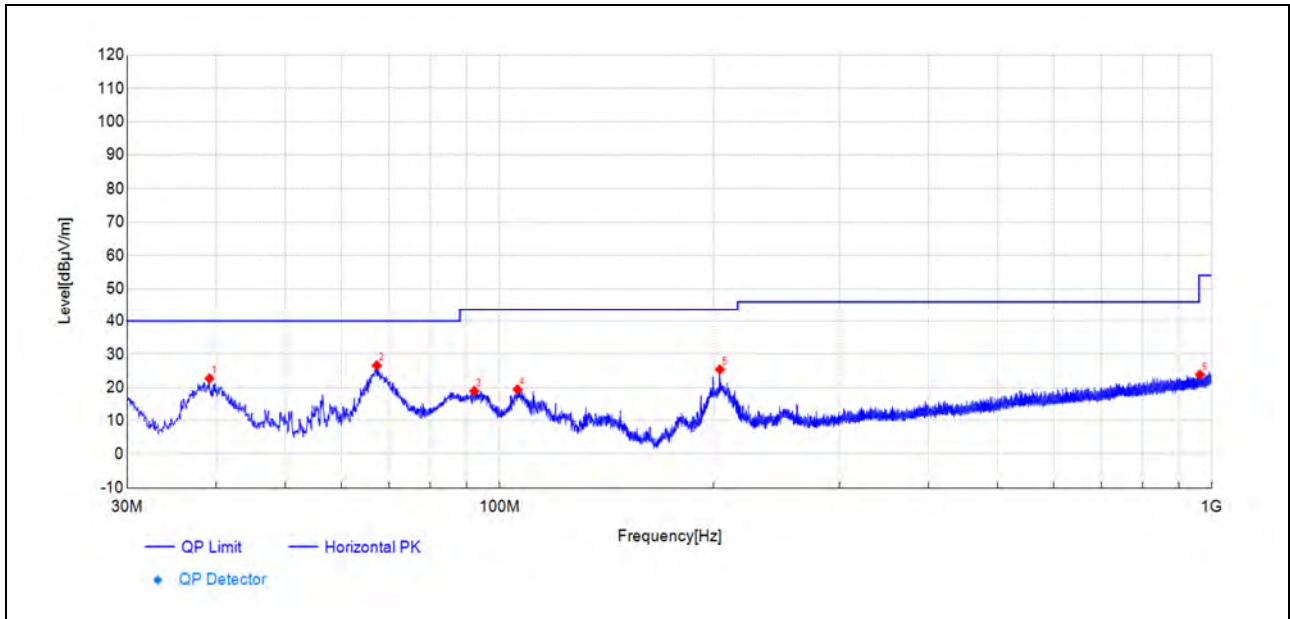


(Antenna Vertical, 1GHz to 18GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5184.74	39.2	49.27	10.030	68.23	18.96	165	17	PK	PASS
5185.24	32.0	42.06	10.030	-	-	165	17	AV	NA
5783.06	43.9	56.39	12.510	68.23	11.84	165	316	PK	PASS
5783.56	36.2	48.65	12.500	-	-	165	328	AV	NA
16797.76	48.4	53.55	5.190	-	-	165	85	AV	NA
16801.74	58.6	63.82	5.240	68.23	4.41	165	85	PK	PASS

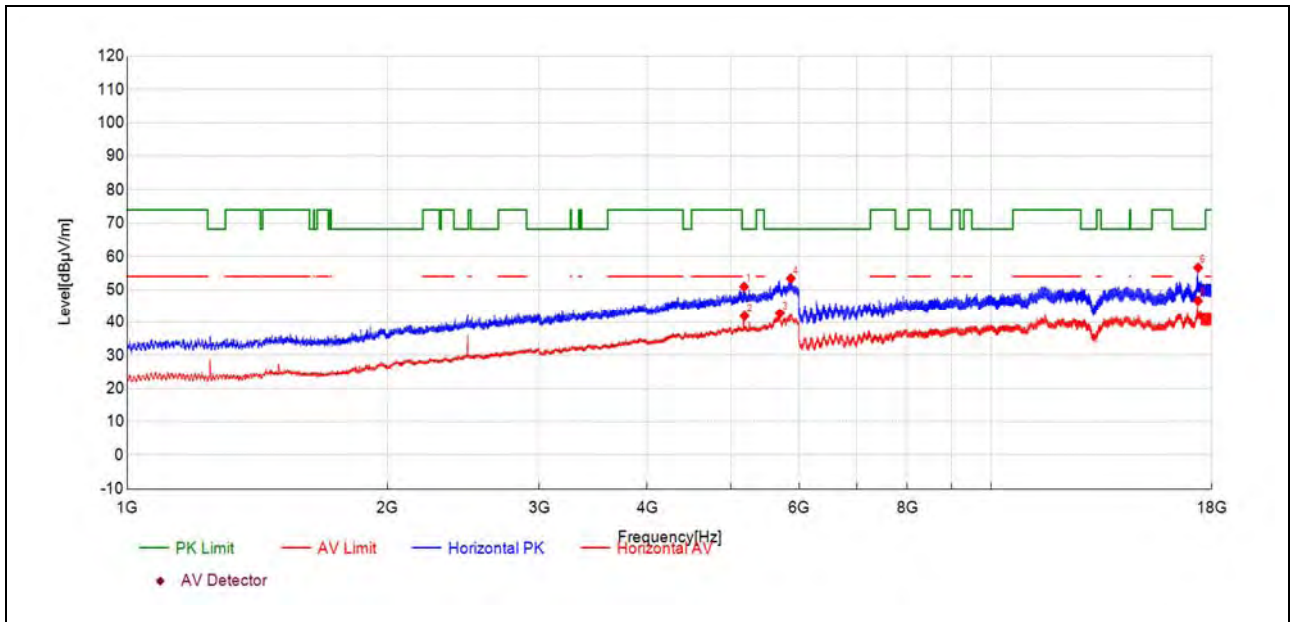


Plot for Channel 157



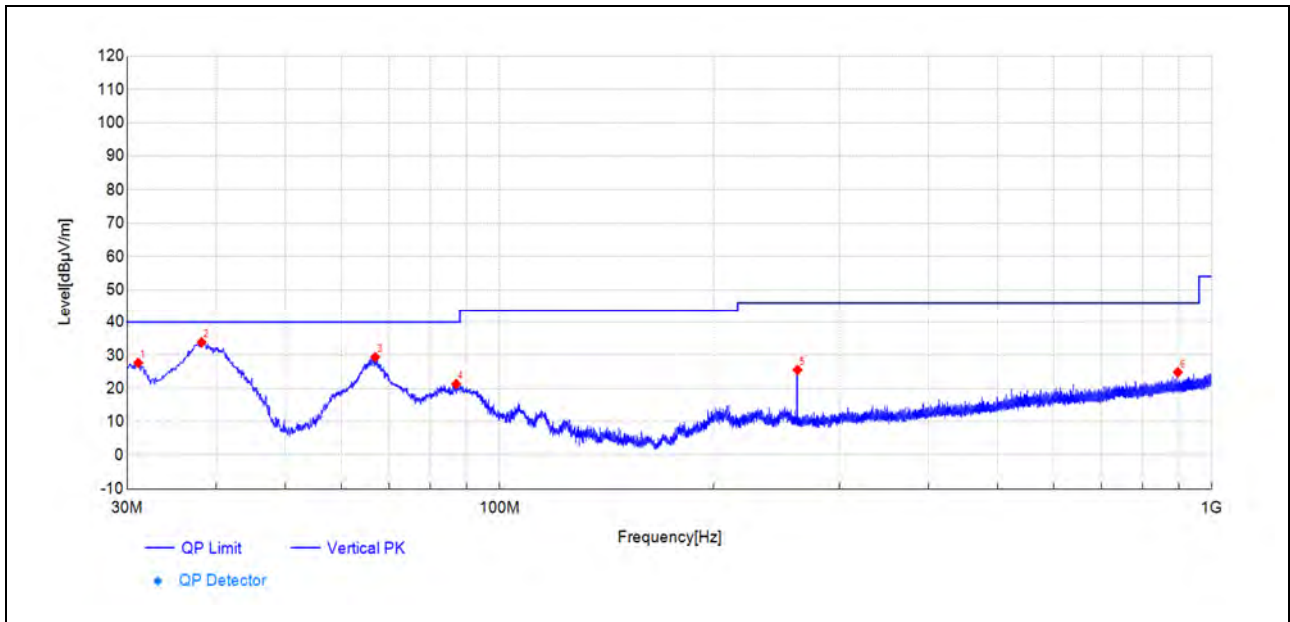
(Antenna Horizontal, 30MHz to 1GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
39.17	52.1	22.71	-29.360	40.00	17.29	165	132	PK	PASS
67.27	60.1	26.59	-33.490	40.00	13.41	165	178	PK	PASS
92.20	50.2	18.91	-31.310	43.50	24.59	165	10	PK	PASS
106.08	49.8	19.40	-30.420	43.50	24.10	165	10	PK	PASS
203.96	55.6	25.40	-30.190	43.50	18.10	165	104	PK	PASS
962.84	37.8	23.85	-13.960	54.00	30.15	165	225	PK	PASS



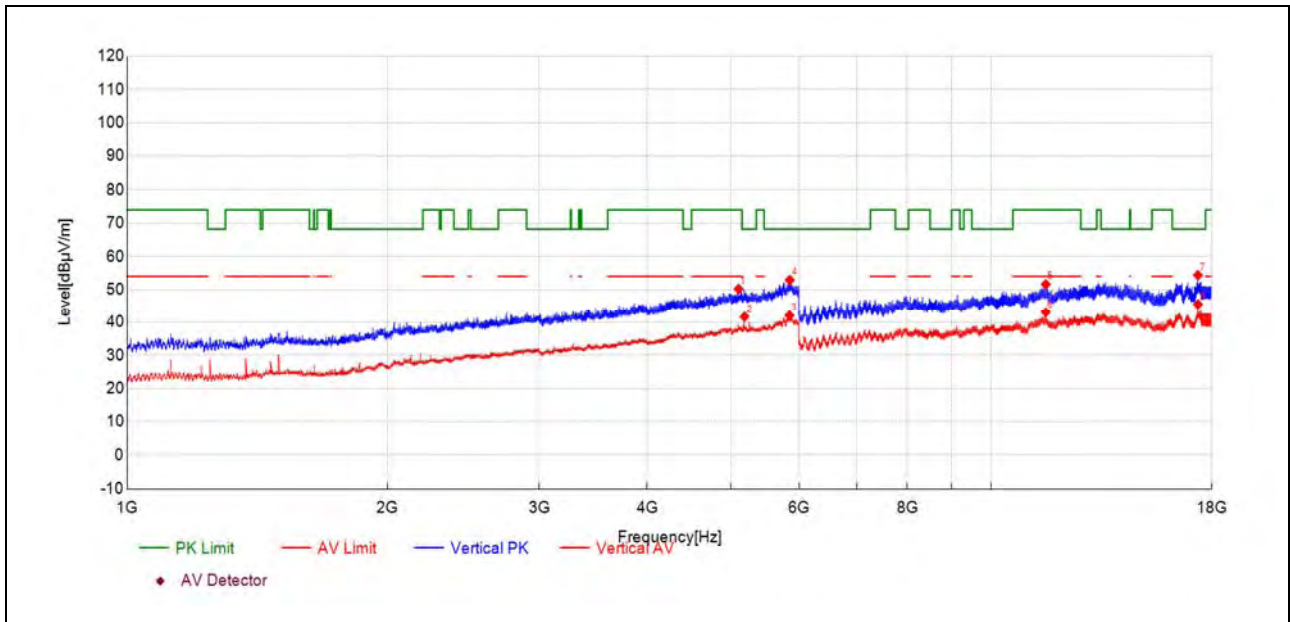
(Antenna Horizontal, 1GHz to 18GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5177.32	40.6	50.87	10.260	68.23	17.36	165	359	PK	PASS
5183.26	31.6	41.86	10.280	-	-	165	7	AV	NA
5696.38	30.7	42.66	11.930	-	-	165	272	AV	NA
5863.79	39.4	53.36	13.920	68.23	14.87	165	359	PK	PASS
17355.55	39.3	46.64	7.350	-	-	165	72	AV	NA
17359.04	49.3	56.64	7.390	68.23	11.59	165	50	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
31.12	60.6	27.73	-32.870	40.00	12.27	165	284	PK	PASS
38.17	63.6	33.91	-29.680	40.00	6.09	165	208	PK	PASS
66.92	62.8	29.45	-33.360	40.00	10.55	165	198	PK	PASS
86.97	54.5	21.38	-33.160	40.00	18.62	165	246	PK	PASS
262.11	53.5	25.58	-27.920	46.00	20.42	165	0	PK	PASS
896.17	39.9	24.88	-15.000	46.00	21.12	165	302	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
5101.54	39.9	50.20	10.280	74.00	23.80	165	6	PK	PASS
5183.26	31.4	41.64	10.280	-	-	165	360	AV	NA
5843.49	28.1	42.02	13.930	-	-	165	62	AV	NA
5847.94	38.9	52.90	14.020	68.23	15.33	165	360	PK	PASS
11569.45	48.7	51.61	2.960	74.00	22.39	165	334	PK	PASS
11569.95	40.1	43.05	2.960	54.00	10.95	165	98	AV	PASS
17352.56	47.1	54.37	7.320	68.23	13.86	165	78	PK	PASS
17352.56	38.2	45.53	7.320	-	-	165	78	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 —————

