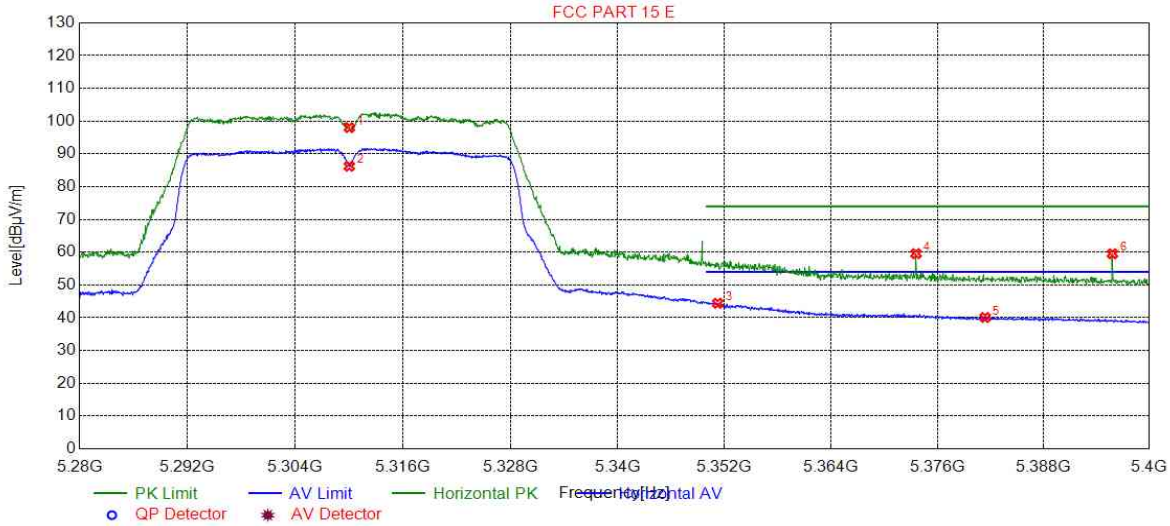
4.10.1.71 802.11AC40_Channel 62

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5310.000	98.04	0.00	-98.04	150	238	Horizontal
2	5310.000	86.24	0.00	-86.24	150	233	Horizontal
3	5351.255	44.43	54.00	9.57	150	200	Horizontal
4	5373.586	59.57	74.00	14.43	150	312	Horizontal
5	5381.390	40.09	54.00	13.91	150	224	Horizontal
6	5395.797	59.54	74.00	14.46	150	336	Horizontal

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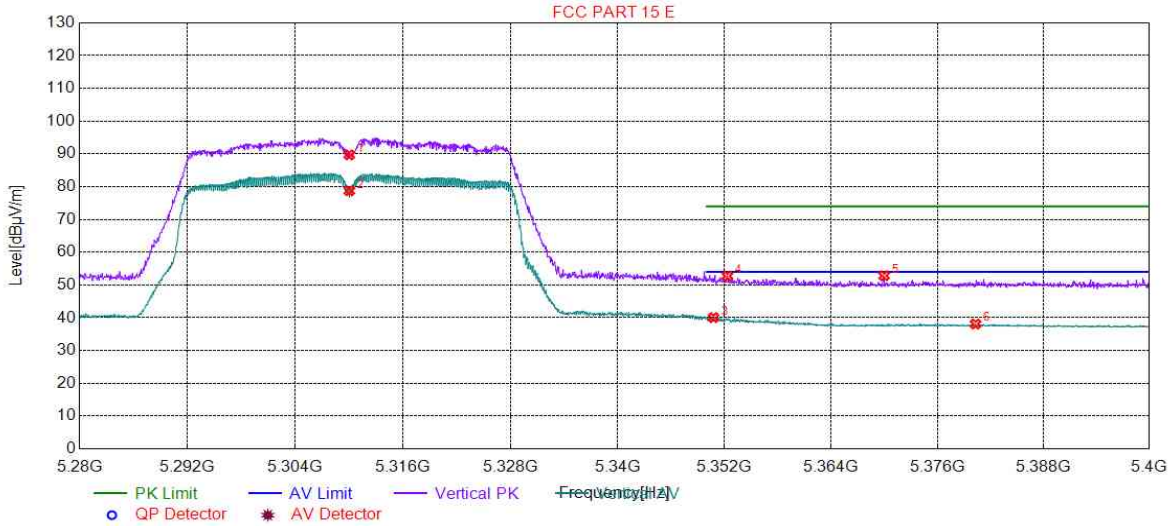
4.10.1.72 802.11AC40_Channel 62

Test Graph



Suspected List

Suspected List							
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1	5310.000	89.72	0.00	-89.72	150	251	Vertical
2	5310.000	78.76	0.00	-78.76	150	251	Vertical
3	5350.775	40.06	54.00	13.94	150	251	Vertical
4	5352.336	52.75	74.00	21.25	150	246	Vertical
5	5369.985	52.83	74.00	21.17	150	256	Vertical
6	5380.310	38.10	54.00	15.90	150	208	Vertical

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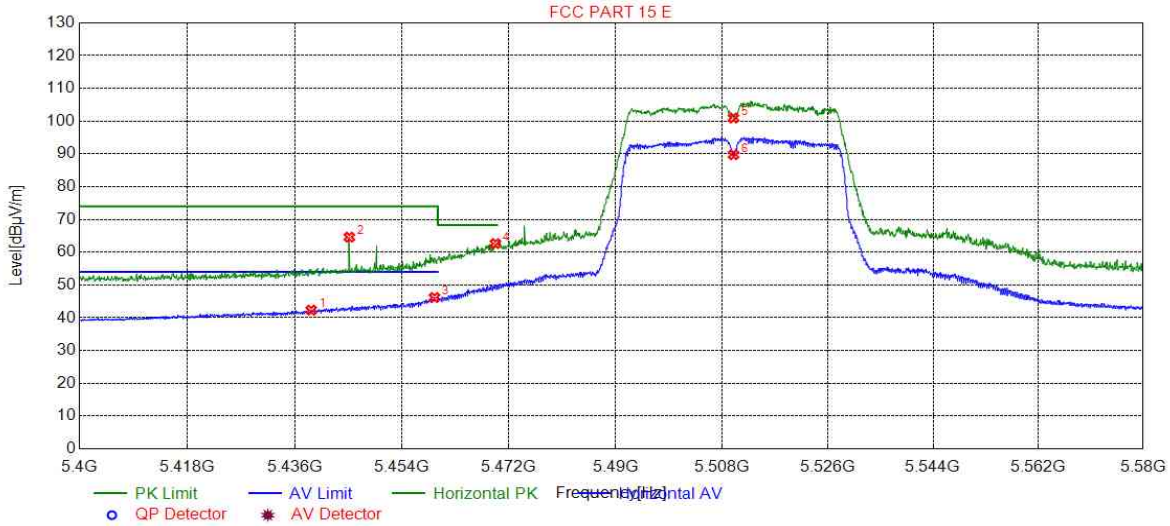
4.10.1.73 802.11AC40_Channel 102

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5438.719	42.34	54.00	11.66	150	231	Horizontal
2	5445.112	64.61	74.00	9.39	150	314	Horizontal
3	5459.429	46.19	54.00	7.81	150	231	Horizontal
4	5469.694	62.65	68.30	5.65	150	231	Horizontal
5	5510.000	100.98	0.00	-100.98	150	236	Horizontal
6	5510.000	89.76	0.00	-89.76	150	231	Horizontal

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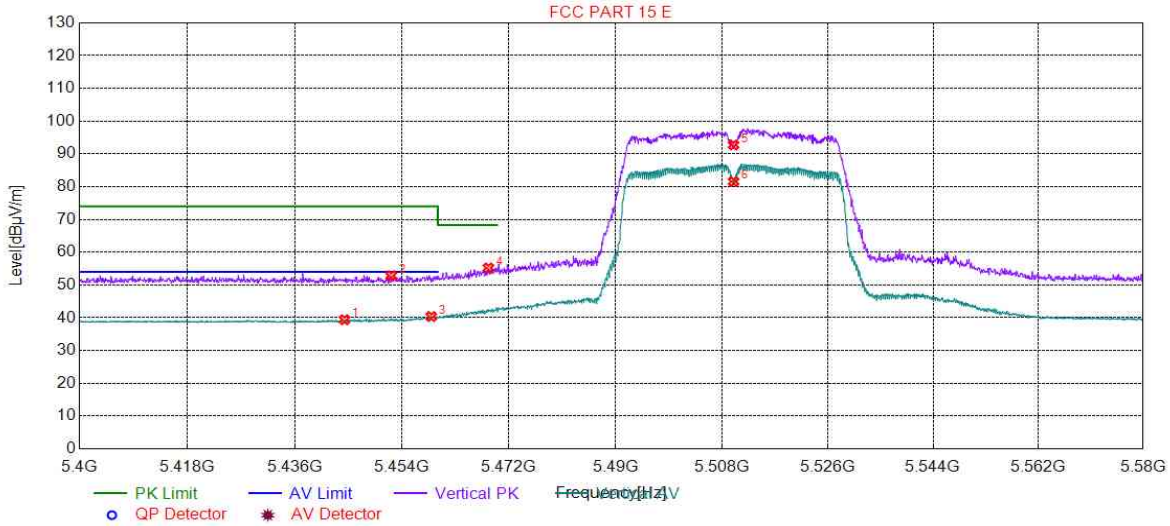
4.10.1.74 802.11AC40_Channel 102

Test Graph



Suspected List

Suspected List							
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1	5444.302	39.42	54.00	14.58	150	257	Vertical
2	5452.136	52.85	74.00	21.15	150	139	Vertical
3	5458.889	40.38	54.00	13.62	150	144	Vertical
4	5468.524	55.21	68.30	13.09	150	144	Vertical
5	5510.000	92.75	0.00	-92.75	150	139	Vertical
6	5510.000	81.57	0.00	-81.57	150	144	Vertical

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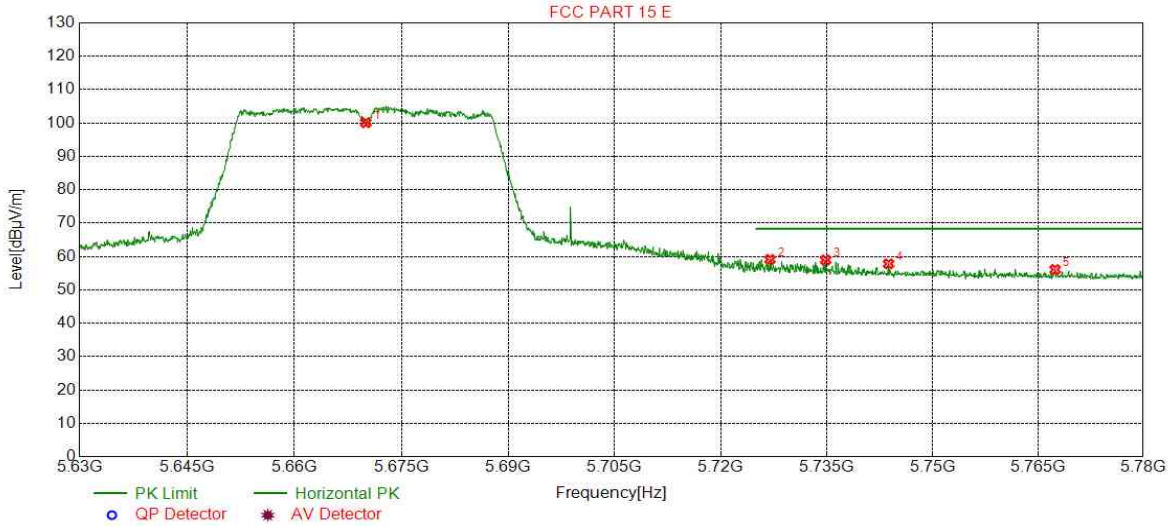
4.10.1.75 802.11AC40_Channel 134

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.000	100.10	0.00	-100.10	150	227	Horizontal
2	5726.948	59.12	68.30	9.18	150	230	Horizontal
3	5734.827	58.96	68.30	9.34	150	230	Horizontal
4	5743.756	57.82	68.30	10.48	150	227	Horizontal
5	5767.468	56.11	68.30	12.19	150	230	Horizontal

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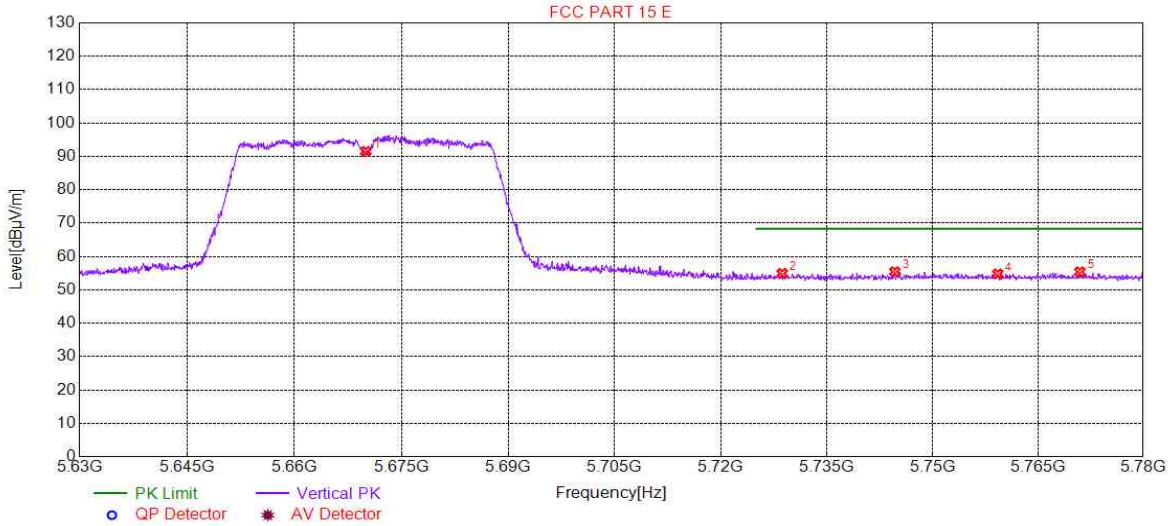
4.10.1.76 802.11AC40_Channel 134

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.000	91.52	0.00	-91.52	150	208	Vertical
2	5728.674	54.96	68.30	13.34	150	49	Vertical
3	5744.657	55.45	68.30	12.85	150	344	Vertical
4	5759.289	54.79	68.30	13.51	150	132	Vertical
5	5770.995	55.41	68.30	12.89	150	85	Vertical

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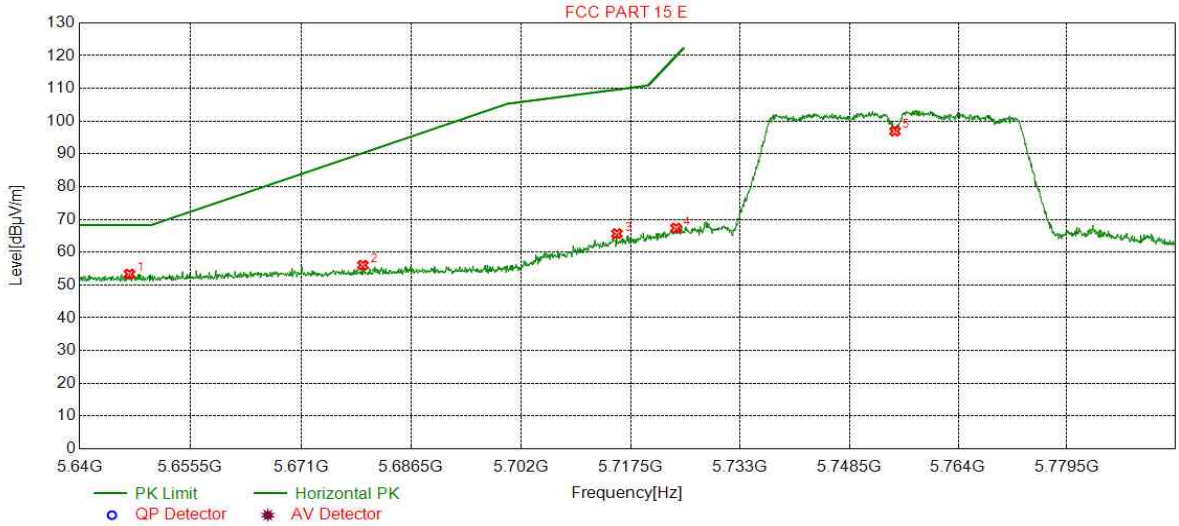
4.10.1.77 802.11AC40_Channel 151

Test Graph



Suspected List

Suspected List							
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1	5646.978	53.34	68.30	14.96	150	16	Horizontal
2	5679.699	56.06	90.28	34.22	150	310	Horizontal
3	5715.522	65.70	109.65	43.95	150	235	Horizontal
4	5723.896	67.39	119.79	52.40	150	220	Horizontal
5	5755.000	96.95	0.00	-96.95	150	227	Horizontal

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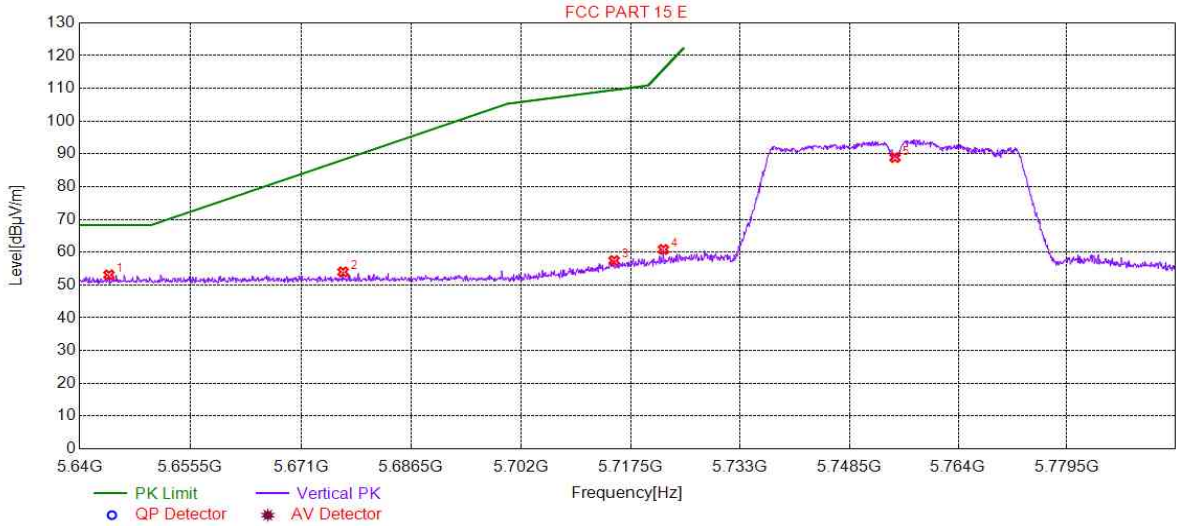
4.10.1.78 802.11AC40_Channel 151

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5644.109	53.11	68.30	15.19	150	169	Vertical
2	5676.908	54.01	88.21	34.20	150	208	Vertical
3	5715.135	57.46	109.54	52.08	150	187	Vertical
4	5722.113	60.85	115.72	54.87	150	4	Vertical
5	5755.000	88.89	0.00	-88.89	150	201	Vertical

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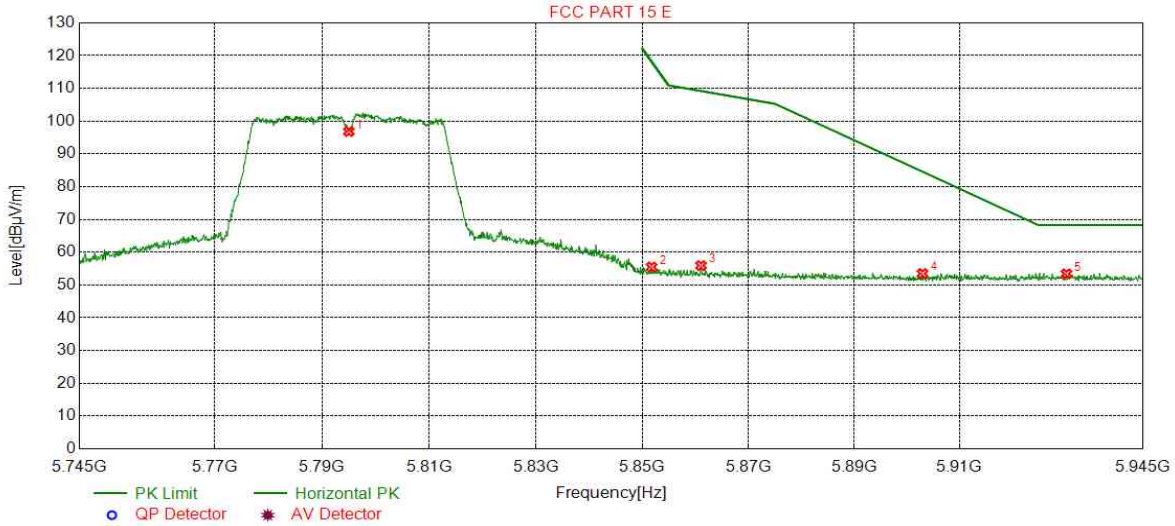
4.10.1.79 802.11AC40_Channel 159

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.000	96.85	0.00	-96.85	150	228	Horizontal
2	5851.753	55.52	118.30	62.78	150	231	Horizontal
3	5861.058	55.93	109.20	53.27	150	224	Horizontal
4	5902.979	53.51	84.60	31.09	150	228	Horizontal
5	5930.392	53.40	68.30	14.90	150	119	Horizontal

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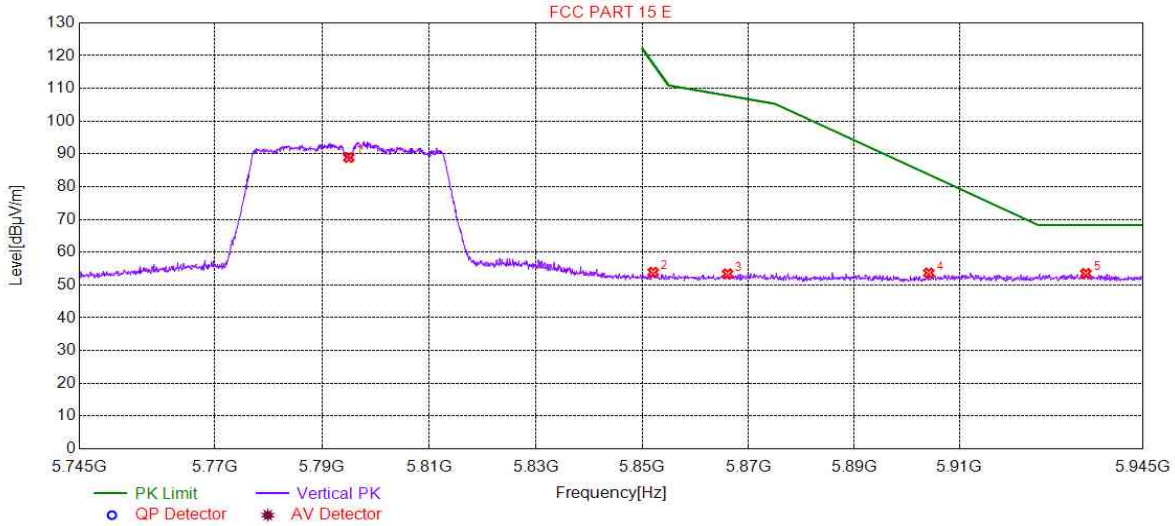
4.10.1.80 802.11AC40_Channel 159

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.000	88.91	0.00	-88.91	150	206	Vertical
2	5852.053	53.90	117.62	63.72	150	59	Vertical
3	5866.060	53.41	107.80	54.39	150	326	Vertical
4	5904.179	53.68	83.71	30.03	150	170	Vertical
5	5934.094	53.53	68.30	14.77	150	127	Vertical

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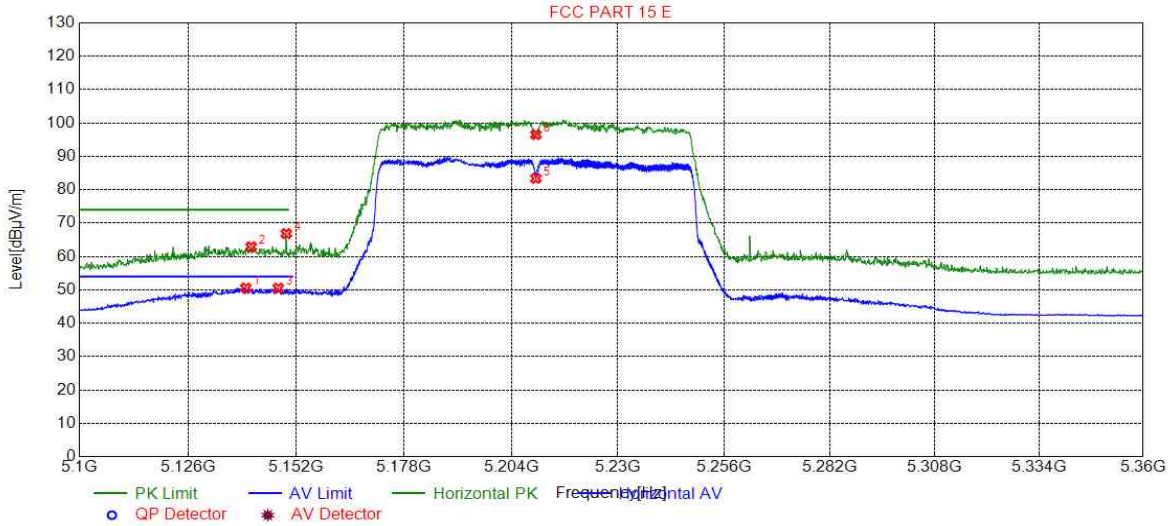
4.10.1.81 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5139.799	50.57	54.00	3.43	100	231	Horizontal
2	5141.100	62.94	74.00	11.06	100	231	Horizontal
3	5147.603	50.55	54.00	3.45	100	231	Horizontal
4	5149.554	66.88	74.00	7.12	100	302	Horizontal
5	5210.000	83.39	0.00	-83.39	100	226	Horizontal
6	5210.000	96.50	0.00	-96.50	100	235	Horizontal

Final Data List

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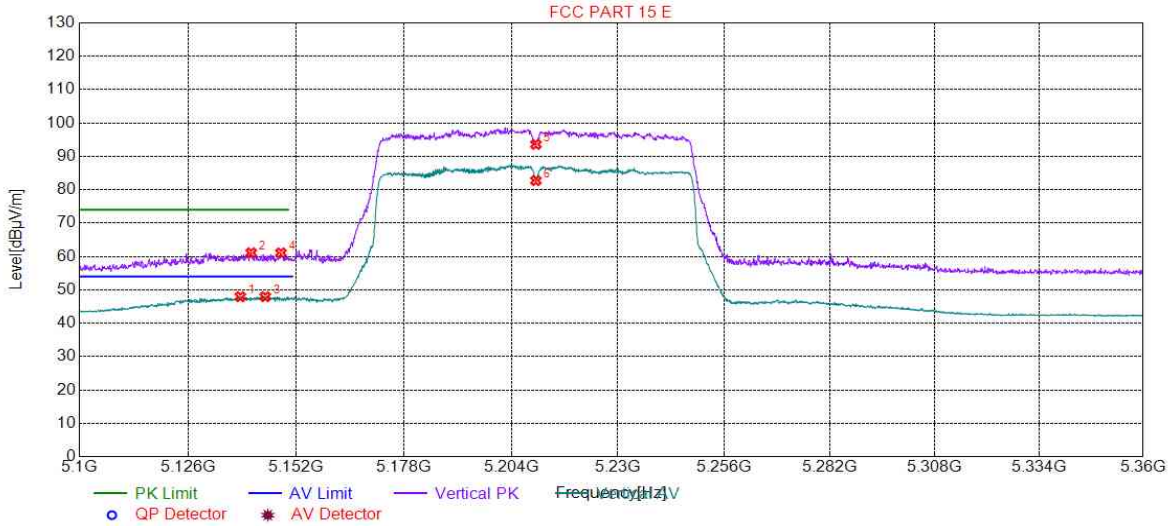
4.10.1.82 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List							
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1	5138.499	47.96	54.00	6.04	300	168	Vertical
2	5141.100	61.12	74.00	12.88	300	164	Vertical
3	5144.482	47.96	54.00	6.04	300	168	Vertical
4	5148.254	61.10	74.00	12.90	300	174	Vertical
5	5210.000	93.59	0.00	-93.59	300	164	Vertical
6	5210.000	82.74	0.00	-82.74	300	168	Vertical

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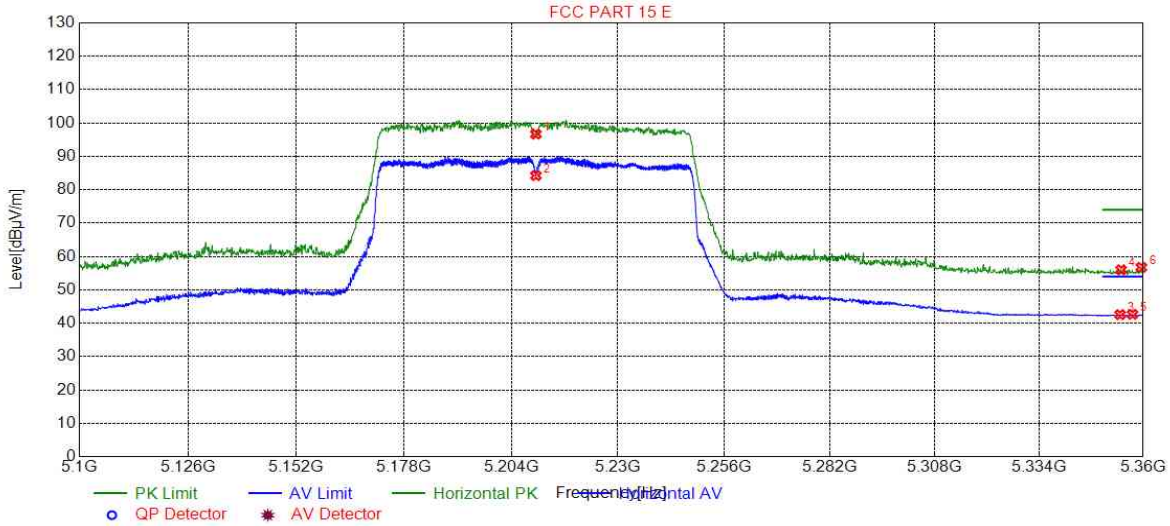
4.10.1.83 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List							
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1	5210.000	96.68	0.00	-96.68	100	231	Horizontal
2	5210.000	84.25	0.00	-84.25	100	222	Horizontal
3	5354.277	42.60	54.00	11.40	400	335	Horizontal
4	5354.537	56.02	74.00	17.98	300	260	Horizontal
5	5357.398	42.69	54.00	11.31	100	231	Horizontal
6	5359.609	56.76	74.00	17.24	200	0	Horizontal

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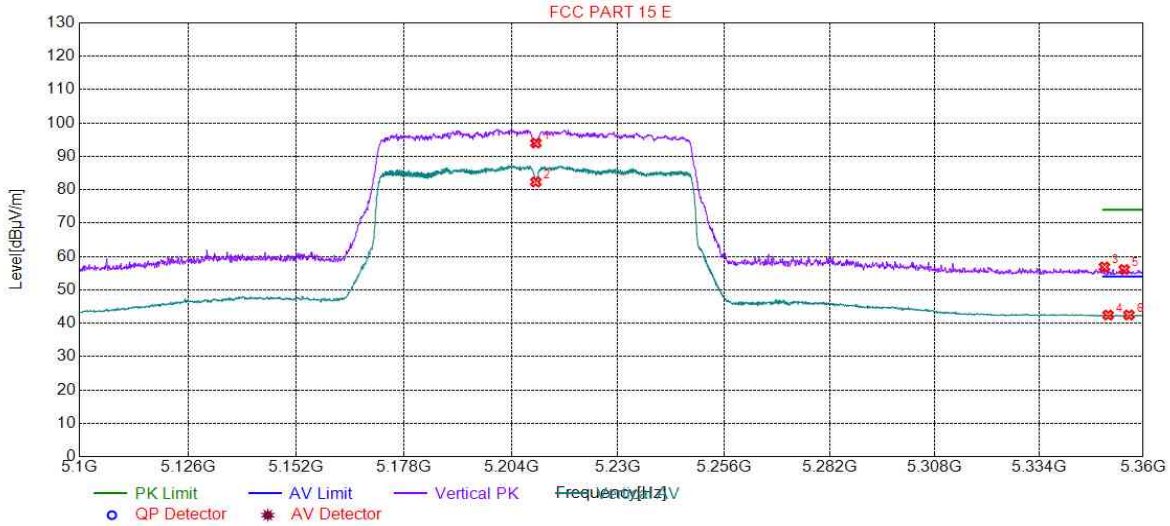
4.10.1.84 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5210.000	93.99	0.00	-93.99	300	169	Vertical
2	5210.000	82.33	0.00	-82.33	300	164	Vertical
3	5350.375	56.87	74.00	17.13	100	40	Vertical
4	5351.285	42.47	54.00	11.53	400	144	Vertical
5	5355.317	56.12	74.00	17.88	400	19	Vertical
6	5356.488	42.50	54.00	11.50	200	15	Vertical

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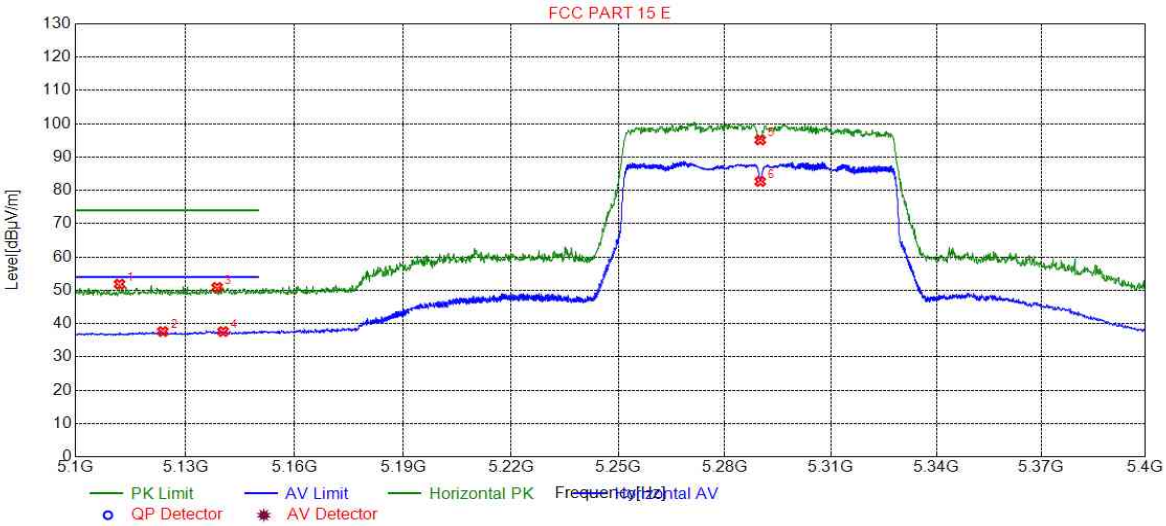
4.10.1.85 802.11AC80_Channel 58

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5112.006	51.86	74.00	22.14	150	235	Horizontal
2	5123.861	37.64	54.00	16.36	150	235	Horizontal
3	5138.719	50.89	74.00	23.11	150	235	Horizontal
4	5140.370	37.64	54.00	16.36	150	235	Horizontal
5	5290.000	95.16	0.00	-95.16	150	235	Horizontal
6	5290.000	82.66	0.00	-82.66	150	308	Horizontal

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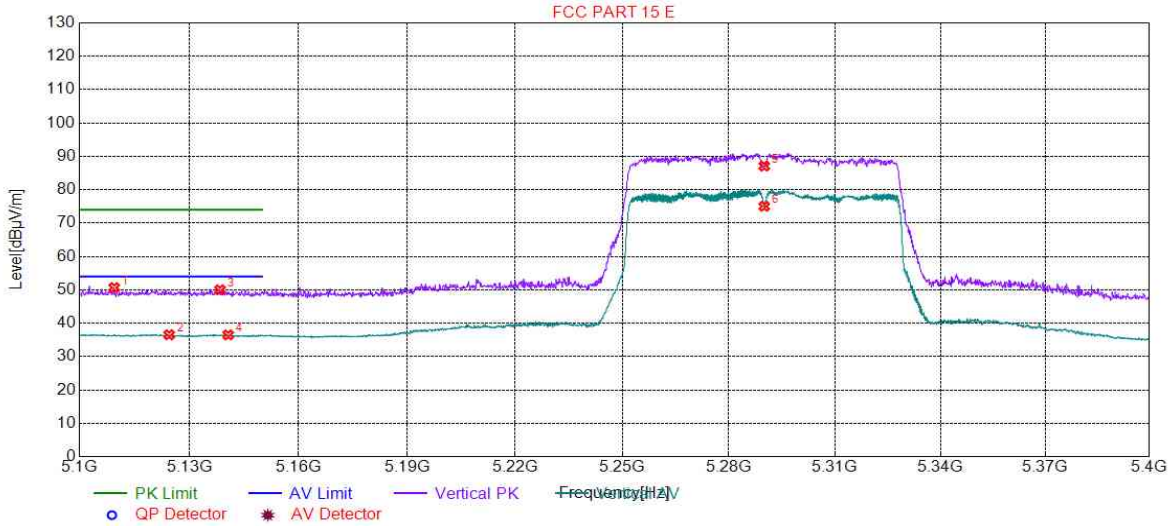
4.10.1.86 802.11AC80_Channel 58

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5109.454	50.69	74.00	23.31	150	1	Vertical
2	5124.462	36.56	54.00	17.44	150	130	Vertical
3	5138.419	50.03	74.00	23.97	150	252	Vertical
4	5140.670	36.52	54.00	17.48	150	344	Vertical
5	5290.000	87.10	0.00	-87.10	150	145	Vertical
6	5290.000	75.04	0.00	-75.04	150	140	Vertical

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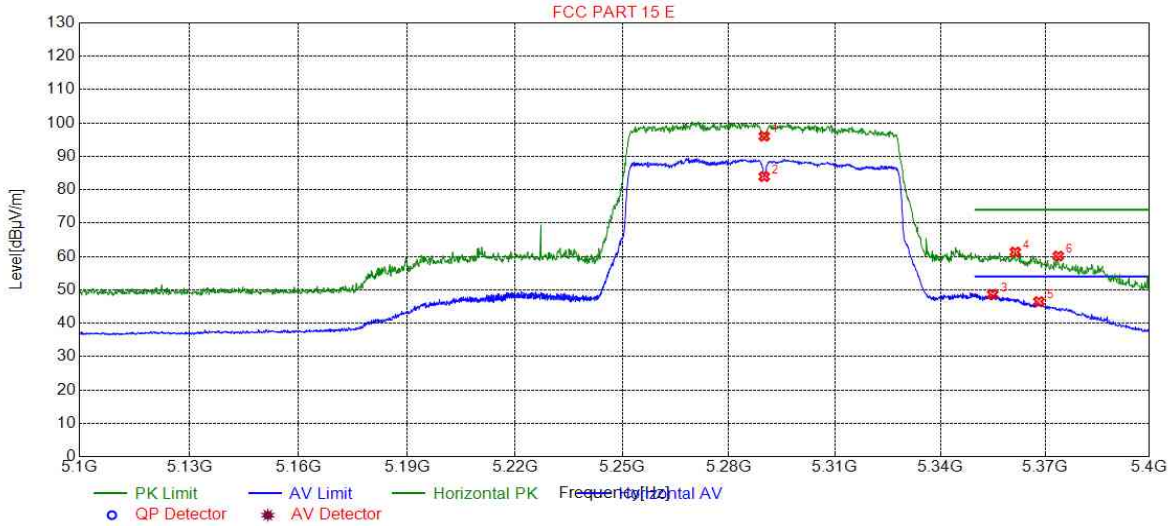
4.10.1.87 802.11AC80_Channel 58

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5290.000	96.03	0.00	-96.03	150	234	Horizontal
2	5290.000	83.93	0.00	-83.93	150	230	Horizontal
3	5354.977	48.66	54.00	5.34	150	230	Horizontal
4	5361.430	61.35	74.00	12.65	150	234	Horizontal
5	5368.184	46.50	54.00	7.50	150	230	Horizontal
6	5373.736	60.14	74.00	13.86	150	234	Horizontal

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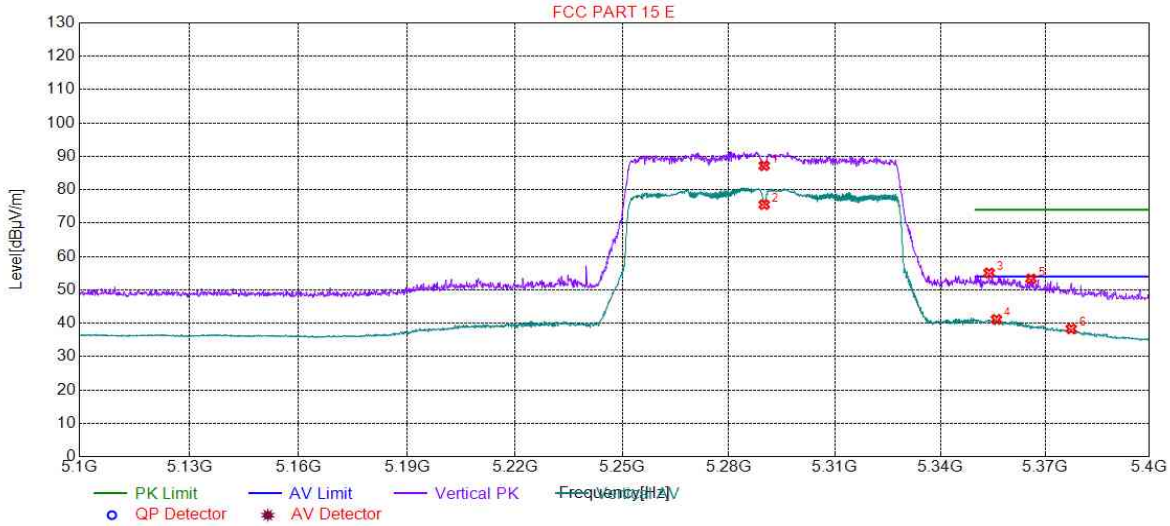
4.10.1.88 802.11AC80_Channel 58

Test Graph



Suspected List

Suspected List							
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2	5290.000	75.54	0.00	-75.54	150	139	Vertical
3	5353.927	55.09	74.00	18.91	150	144	Vertical
4	5356.028	41.16	54.00	12.84	150	252	Vertical
5	5365.933	53.30	74.00	20.70	150	246	Vertical
6	5377.488	38.32	54.00	15.68	150	149	Vertical

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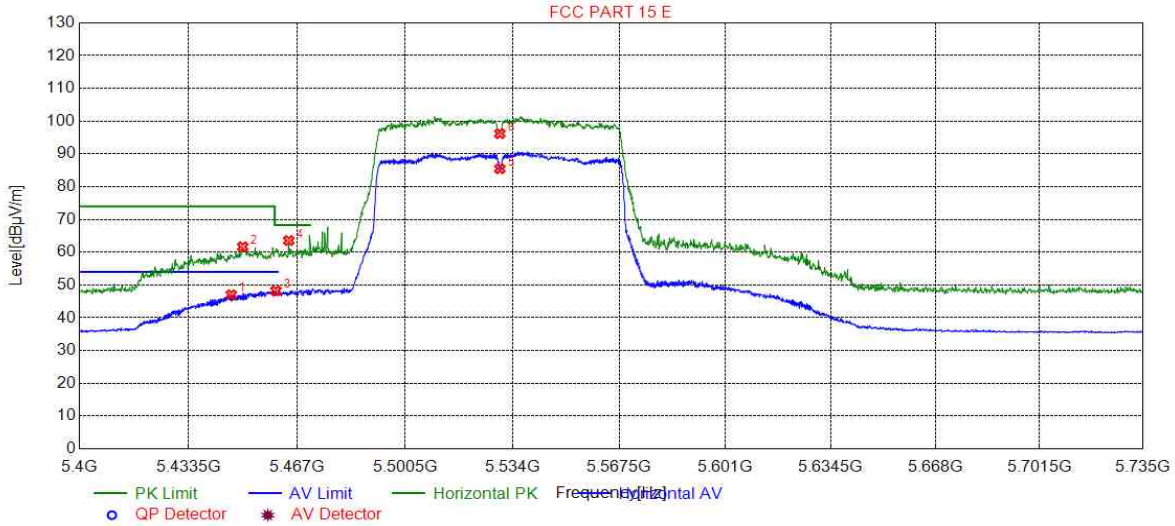
4.10.1.89 802.11AC80_Channel 106

Test Graph



Suspected List

Suspected List							
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1	5446.588	47.03	54.00	6.97	150	221	Horizontal
2	5450.107	61.68	74.00	12.32	150	221	Horizontal
3	5460.330	48.22	54.00	5.78	150	221	Horizontal
4	5464.352	63.57	68.30	4.73	150	221	Horizontal
5	5530.000	85.48	0.00	-85.48	150	216	Horizontal
6	5530.000	96.19	0.00	-96.19	150	226	Horizontal

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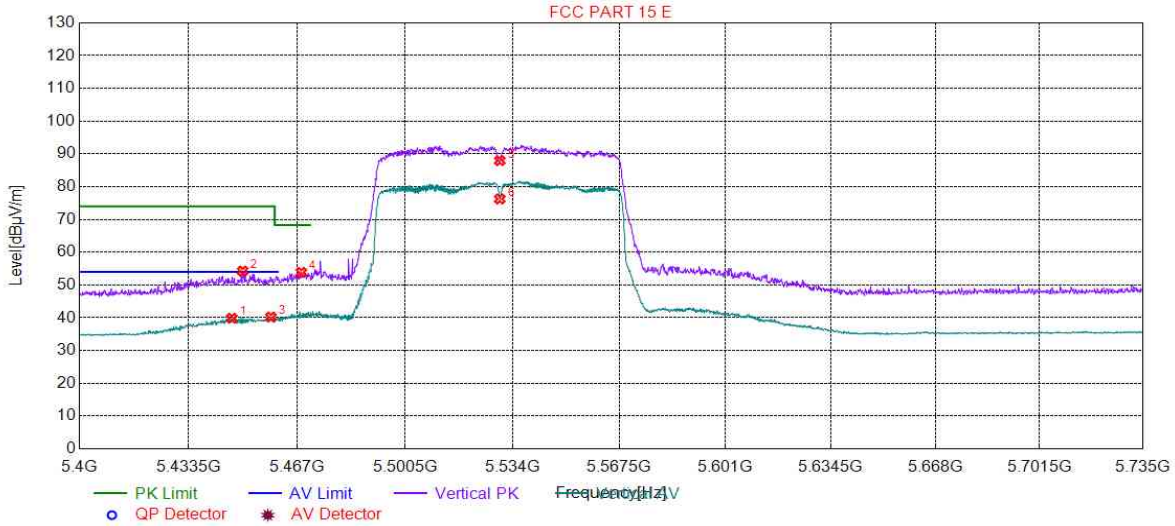
4.10.1.90 802.11AC80_Channel 106

Test Graph



Suspected List

Suspected List							
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1	5446.755	39.87	54.00	14.13	150	247	Vertical
2	5450.107	54.27	74.00	19.73	150	134	Vertical
3	5458.821	40.22	54.00	13.78	150	247	Vertical
4	5468.206	53.87	68.30	14.43	150	247	Vertical
5	5530.000	87.97	0.00	-87.97	150	134	Vertical
6	5530.000	76.26	0.00	-76.26	150	3	Vertical

Final Data List

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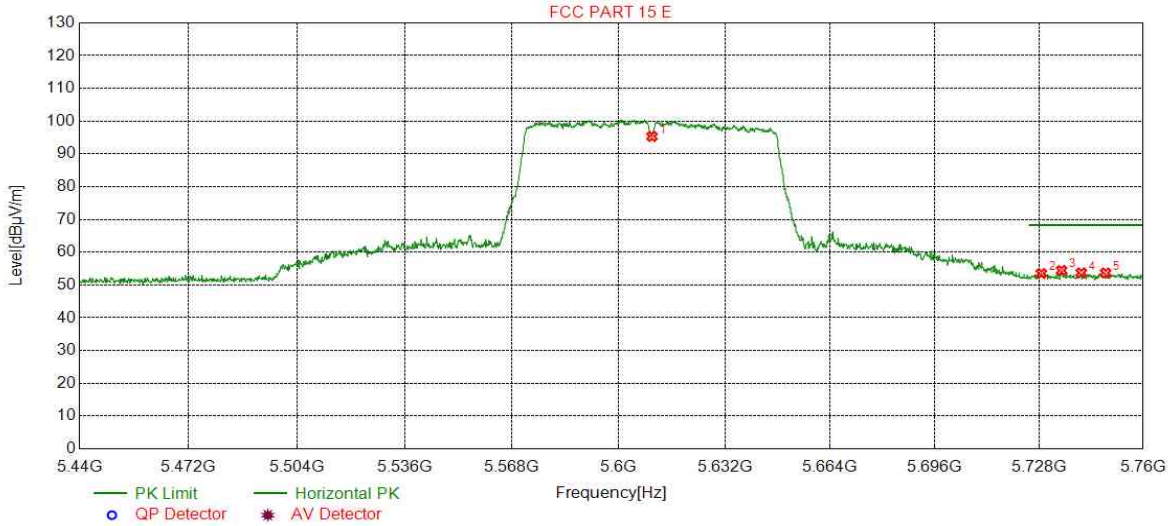
4.10.1.91 802.11AC80_Channel 122

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5610.000	95.35	0.00	-95.35	150	230	Horizontal
2	5728.624	53.52	68.30	14.78	150	55	Horizontal
3	5734.867	54.45	68.30	13.85	150	94	Horizontal
4	5740.950	53.72	68.30	14.58	150	16	Horizontal
5	5748.474	53.70	68.30	14.60	150	338	Horizontal

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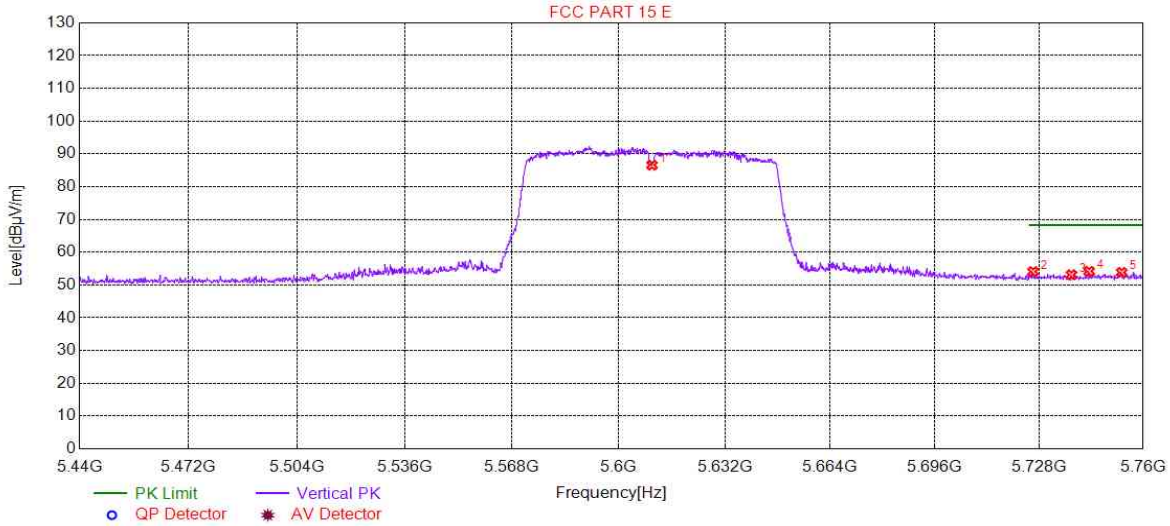
4.10.1.92 802.11AC80_Channel 122

Test Graph



Suspected List

Suspected List							
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1	5610.000	86.59	0.00	-86.59	150	211	Vertical
2	5726.063	54.10	68.30	14.20	150	326	Vertical
3	5737.909	53.13	68.30	15.17	150	0	Vertical
4	5743.351	54.18	68.30	14.12	150	284	Vertical
5	5753.436	53.84	68.30	14.46	150	107	Vertical

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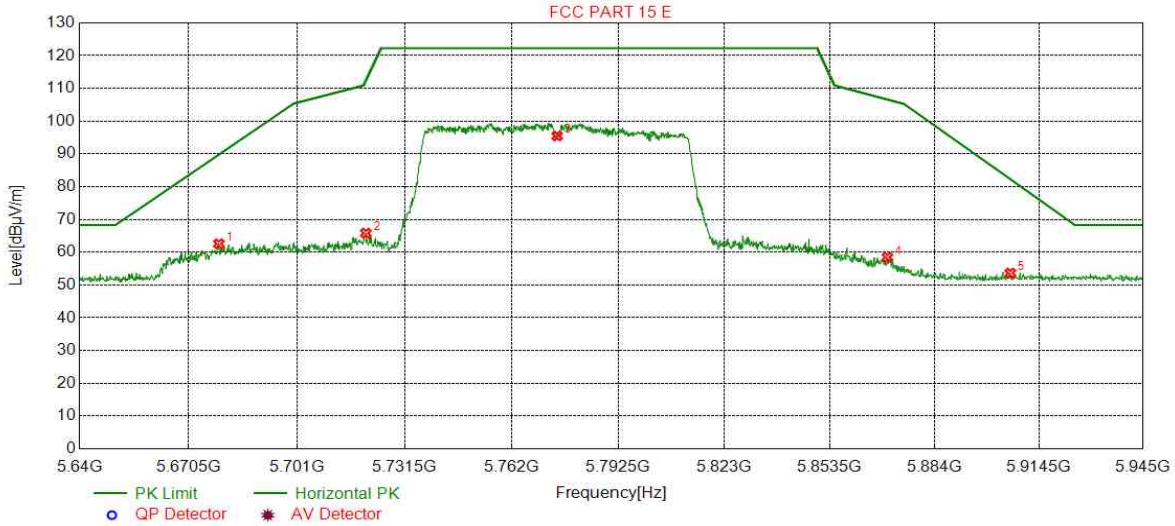
4.10.1.93 802.11AC80_Channel 155

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5679.059	62.59	89.80	27.21	150	221	Horizontal
2	5720.560	65.83	112.18	46.35	150	225	Horizontal
3	5775.000	95.47	122.30	26.83	150	225	Horizontal
4	5870.237	58.46	106.63	48.17	150	221	Horizontal
5	5906.093	53.64	82.29	28.65	150	142	Horizontal

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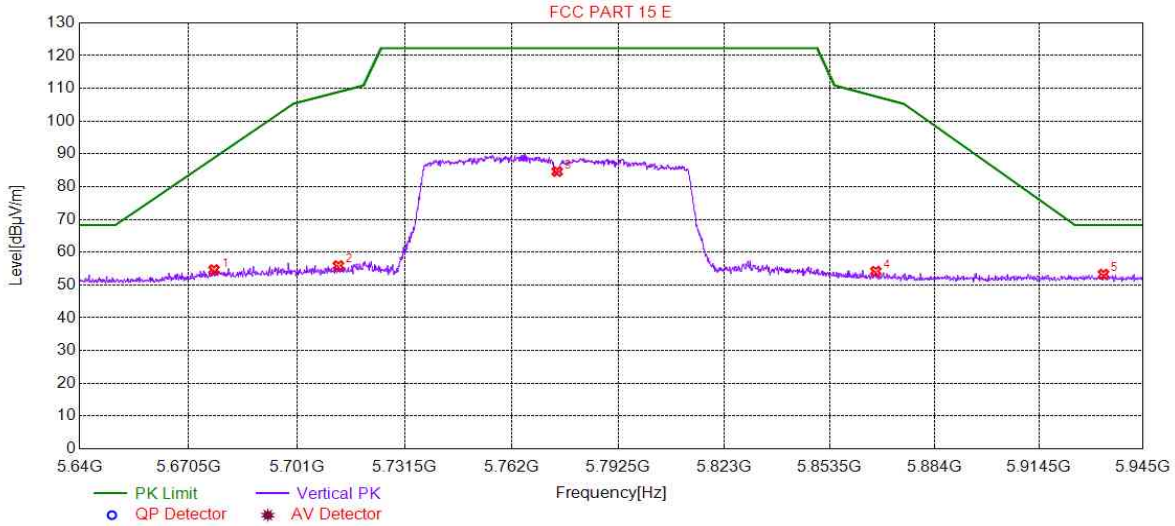
4.10.1.94 802.11AC80_Channel 155

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5677.686	54.67	88.79	34.12	150	20	Vertical
2	5712.778	55.91	108.88	52.97	150	204	Vertical
3	5775.000	84.63	122.30	37.67	150	208	Vertical
4	5866.880	54.22	107.57	53.35	150	204	Vertical
5	5933.404	53.31	68.30	14.99	150	110	Vertical

Final Data List

Remark:
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
All modes have been tested, but only the worst case data displayed in this report.

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4.11 Frequencies Stability

4.11.1 Frequency Error vs. Voltage

Test Conditions	Measured Frequency (MHz)	
	5180	5825
V nom(V)	5180.008977	5825.003227
V max(V)	5180.017337	5825.006863
V min(V)	5180.027039	5825.007847
Max. Deviation Frequency	0.027039	0.007847
Max. Frequency Error (ppm)	5.219814	1.347092

4.11.2 Frequency Error vs. Temperature

Test Conditions	Measured Frequency (MHz)	
	5180	5825
-5	5180.004390	5825.009455
5	5180.005085	5825.015410
15	5180.013817	5825.017312
25	5180.019642	5825.017477
35	5180.022086	5825.024168
45	5180.026339	5825.033433
50	5180.034250	5825.033752
Max. Deviation Frequency	0.034250	0.033752
Max. Frequency Error (ppm)	6.611981	5.794330

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4.12 Dynamic Frequency Selection

4.12.1 DFS Overview

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required
Additional requirements for devices with multiple bandwidth modes	**Master Device or Client with Radar Detection**	**Client Without Radar Detection**
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required
Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.		

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4.12.2 DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. **Note 2:** Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. **Note3:** EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.	

4.12.3 Response Requirements

Table 4: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.
Note 1: *Channel Move Time* and the *Channel Closing Transmission Time* should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. **Note 2:** The *Channel Closing Transmission Time* is comprised of 200 milliseconds starting at the beginning of the *Channel Move Time* plus any additional intermittent control signals required to facilitate a *Channel* move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions. **Note 3:** During the *U-NII Detection Bandwidth* detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.	

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4.12.4 Test plots

4.12.4.1 DFS Detection Thresholds

4.12.4.1.1 Test Result

TestMode	Channel	Radar Type	Result	Limit[dbm]	Verdict
11AC20SISO	5320	Type0	-62.95	-61.00	PASS
	5500	Type0	-63.70	-61.00	PASS
11AC80SISO	5290	Type0	-62.24	-61.00	PASS
	5530	Type0	-63.59	-61.00	PASS

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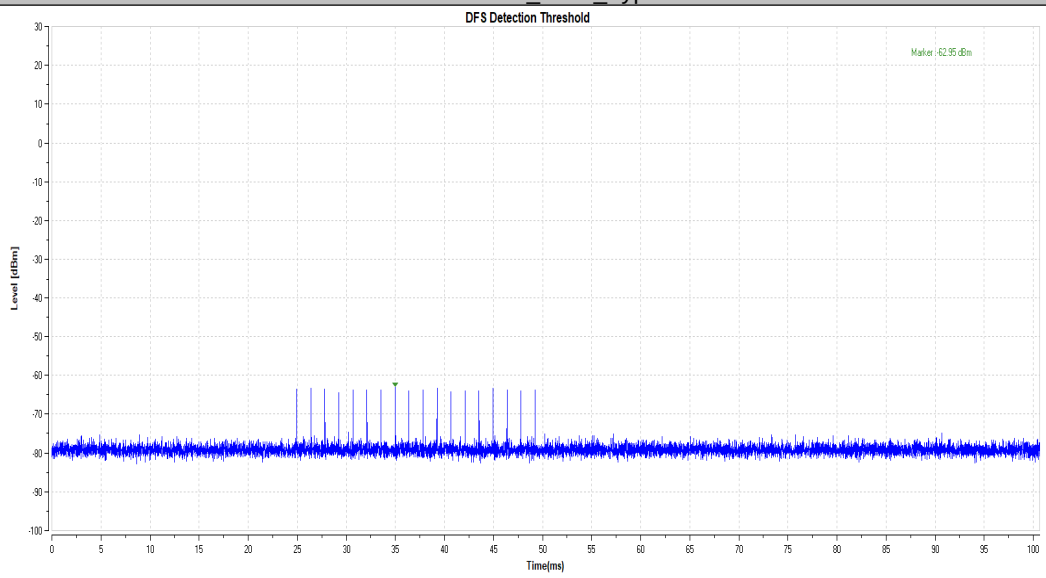
4.12.4.1.2 Test Graphs

11AC20SISO_5320_Type0



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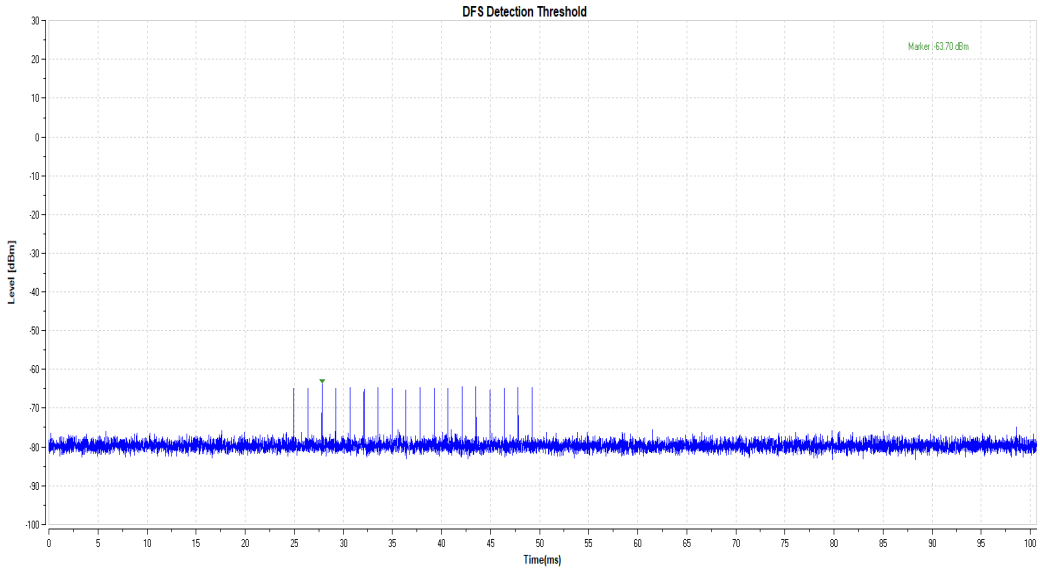

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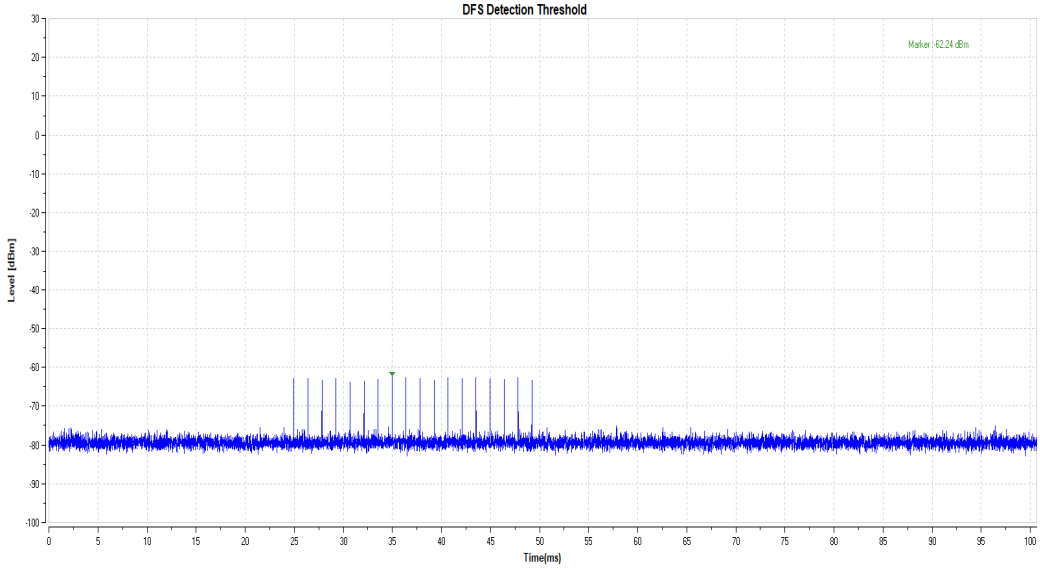

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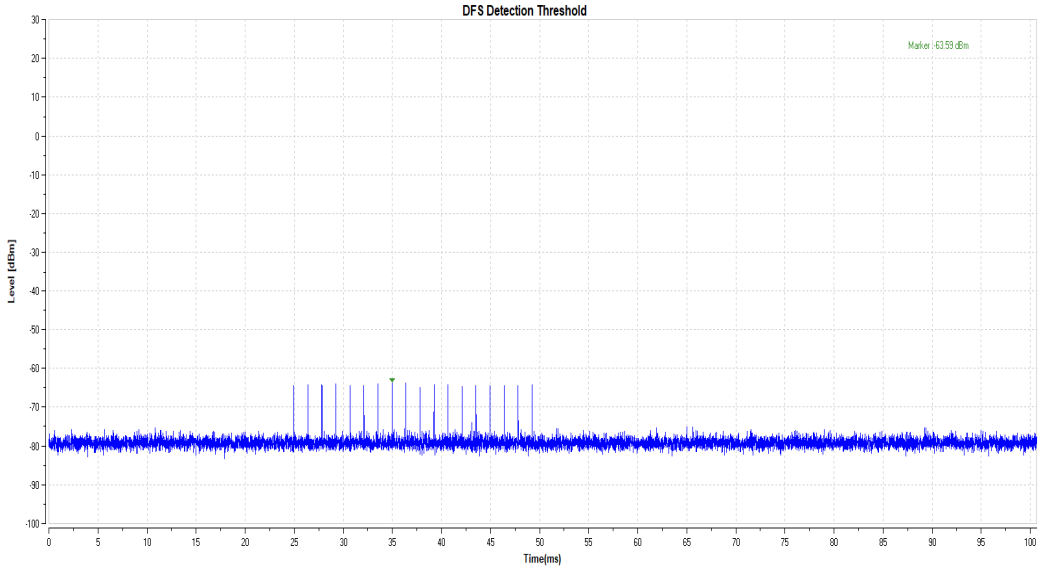

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4.12.4.2 Channel Move Time and Channel Closing Transmission Time

4.12.4.2.1 Test Result

TestMode	Channel	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AC20SISO	5320	0	60	207.7	10000	PASS
	5500	10.9	60	215.8	10000	PASS
11AC80SISO	5290	0	60	201.9	10000	PASS
	5530	9.8	60	214.6	10000	PASS

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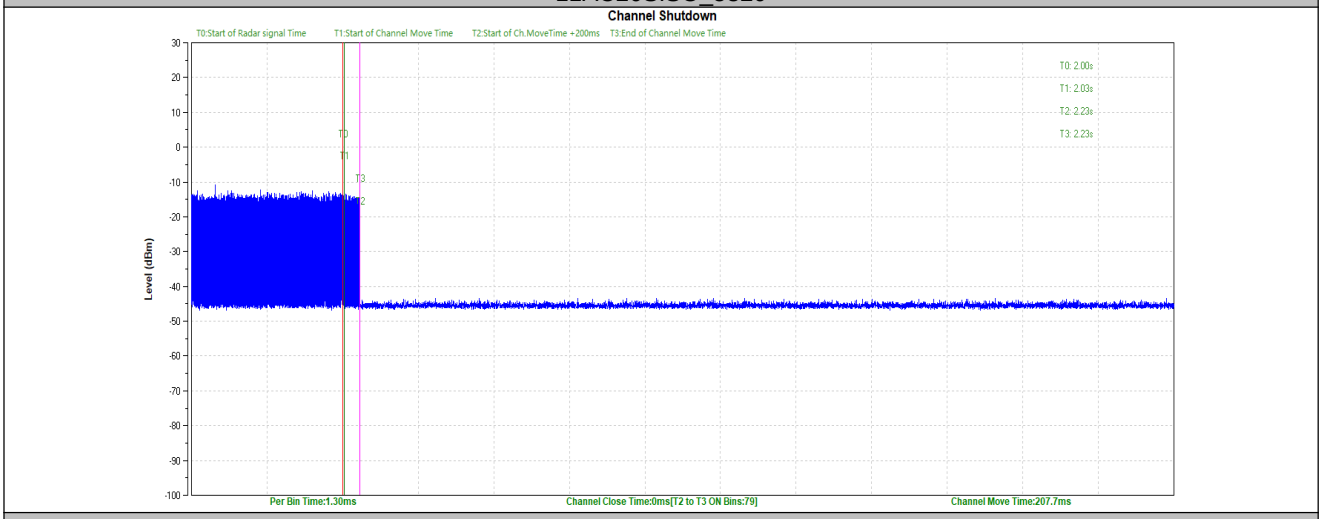
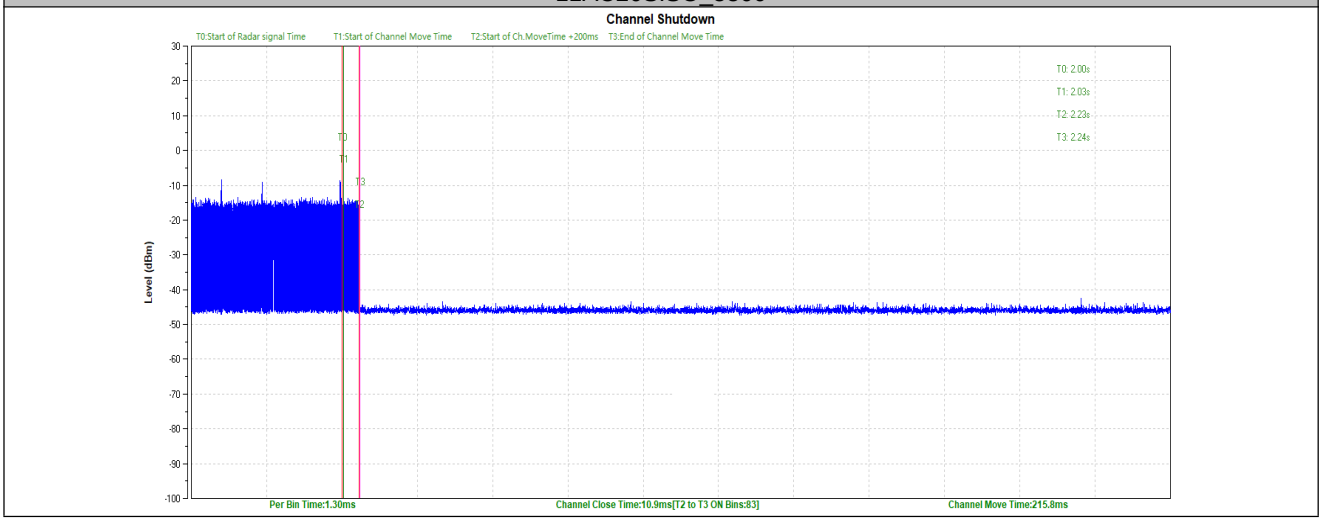
4.12.4.2.2 Test Graphs

11AC20SISO_5320



11AC20SISO_5500



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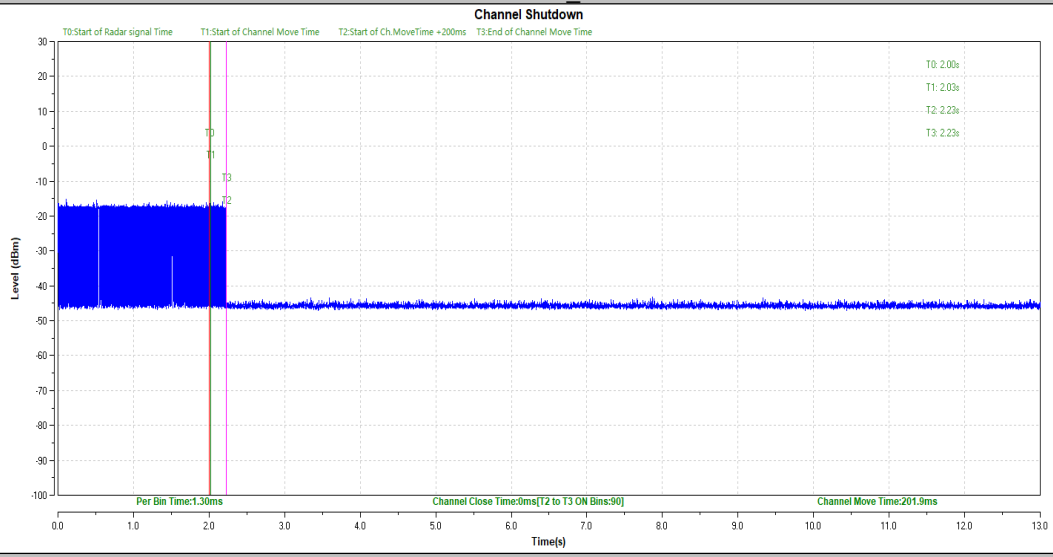
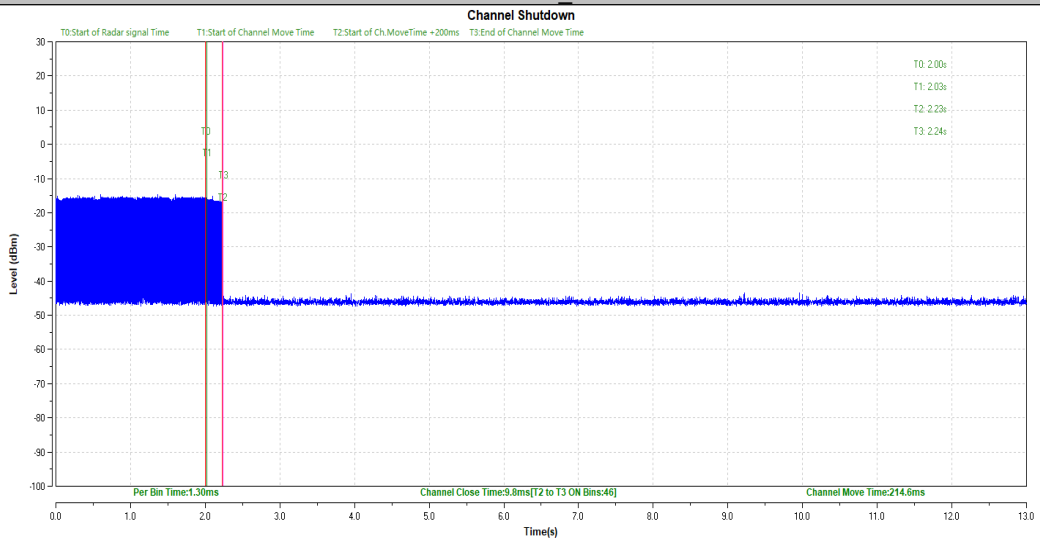
11AC80SISO_5290



11AC80SISO_5530



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4.12.4.3 Non-Occupancy Period

4.12.4.3.1 Test Result

TestMode	Channel	Result	Limit[s]	Verdict
11AC20SISO	5320	see test graph	>=1800	PASS
	5500	see test graph	>=1800	PASS
11AC80SISO	5290	see test graph	>=1800	PASS
	5530	see test graph	>=1800	PASS

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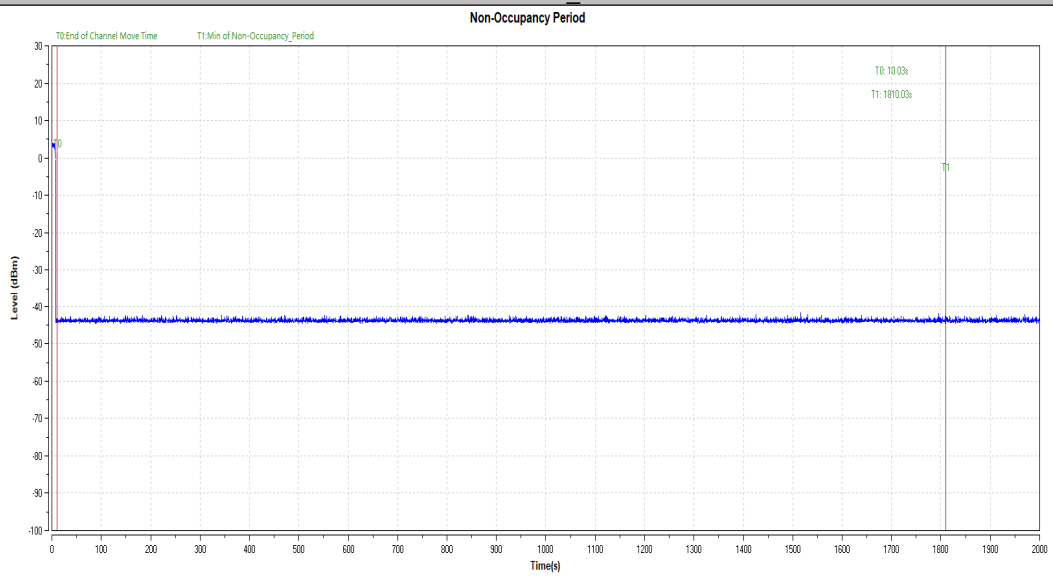
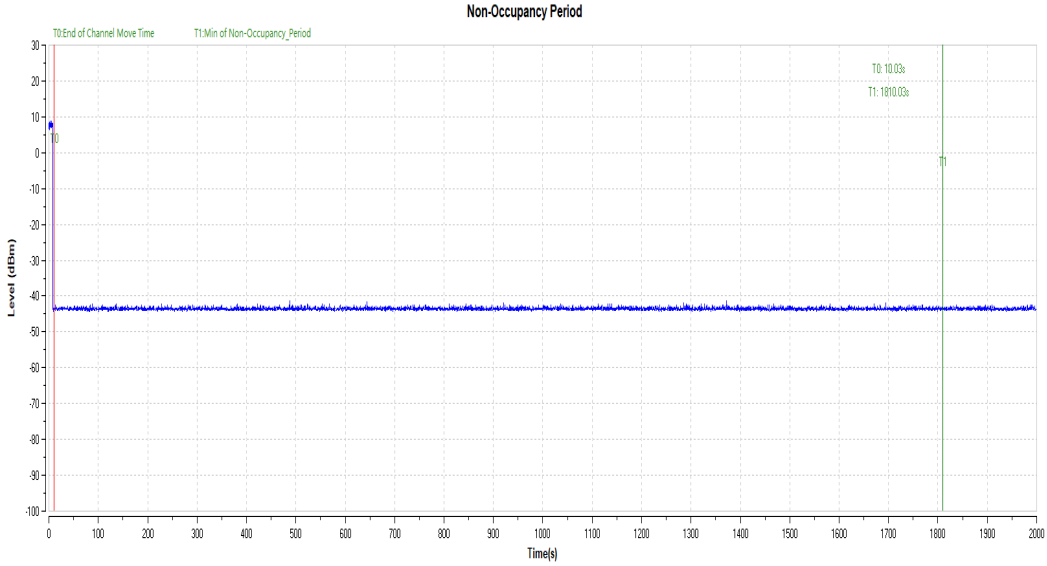
4.12.4.3.2 Test Graphs

11AC20SISO_5320



11AC20SISO_5500



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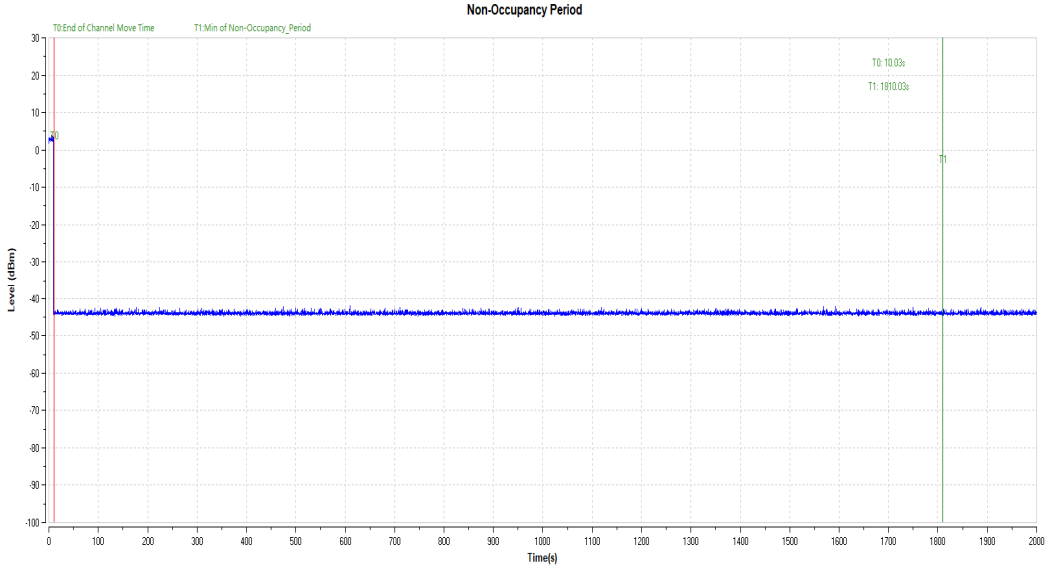
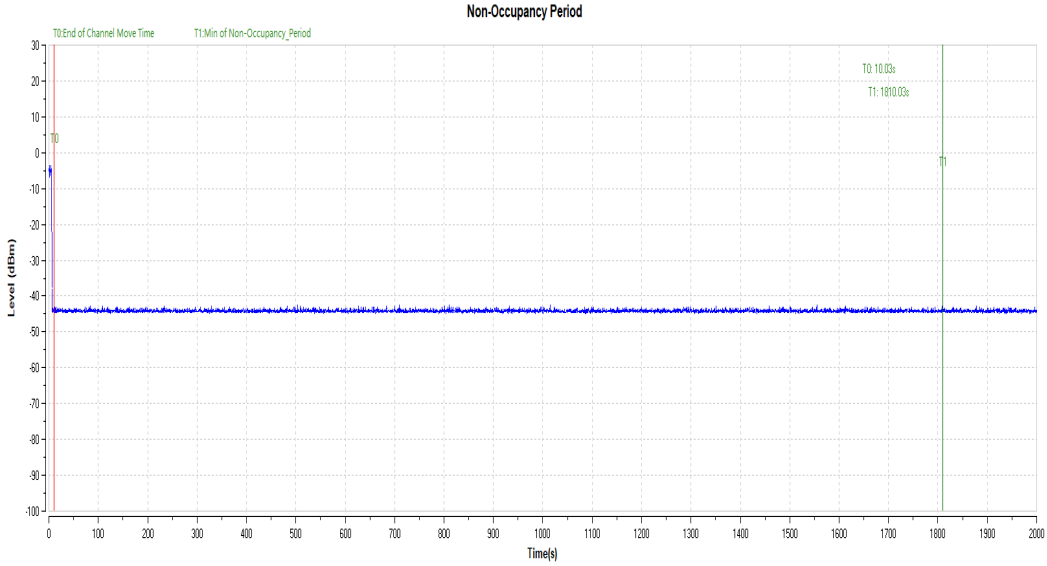
11AC80SISO_5290



11AC80SISO_5530



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5 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.75dB
2	RF power density, conducted	±2.84dB
3	Spurious emissions, conducted	±0.75dB
4	Radiated Spurious emission test	±4.5dB (30MHz-1GHz)
		±4.8dB (1GHz-25GHz)
5	Conduct emission test	±3.12 dB(9KHz- 30MHz)
6	Temperature test	±1°C
7	Humidity test	±3%
8	DC and low frequency voltages	±0.5%

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6 Equipment List

Conducted Emission					
Test Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal. Date (yyyy-mm-dd)**	**Cal. Due date (yyyy-mm-dd)**
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2020/5/10	2023/5/9
LISN	Rohde & Schwarz	ENV216	SEM007-01	2020/7/14	2021/7/14
LISN	ETS-LINDGREN	Feb-16	SEM007-02	2020/3/2	2021/3/1
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2020/6/12	2021/6/11
8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T8-02	EMC0120	2020/2/11	2021/2/10
4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T4-02	EMC0121	2020/2/11	2021/2/10
2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	EMC0122	2020/2/11	2021/2/10
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2020/3/2	2021/3/1
RF conducted test					
Test Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal. Date (yyyy-mm-dd)**	**Cal. Due date (yyyy-mm-dd)**
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2020/7/14	2021/7/14
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2020/3/2	2021/3/1
Coaxial Cable	SGS	N/A	SEM031-01	2020/6/12	2021/6/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020/7/14	2021/7/14
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2020/10/27	2021/10/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020/7/14	2021/7/14
Master Device	Linksys pte.Ltd	WRT32X	FCC ID:Q87-WRT3200ACM IC ID:3839A-WRT3200ACM	N/A	N/A

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RE in Chamber					
Test Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal. Date (yyyy-mm-dd)**	**Cal. Due date (yyyy-mm-dd)**
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020/8/5	2023/8/4
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2020/6/12	2021/6/11
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2020/7/14	2021/7/14
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2020/6/27	2023/6/26
Pre-amplifier (0.1-1.3GHz)	Agilent Technologies	8447D	SEM005-01	2020/3/2	2021/3/1
RE in Chamber					
Test Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal. Date (yyyy-mm-dd)**	**Cal. Due date (yyyy-mm-dd)**
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018/3/13	2021/3/12
Spectrum Analyzer (20Hz-43GHz)	Rohde & Schwarz	FSU43	SEM004-08	2020/3/2	2021/3/1
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2020/6/27	2023/6/26
Horn Antenna (800MHz-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018/413	2021/412
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2020/10/17	2023/10/16
Amplifier(0.1-1300MHz)	HP	8447D	SEM005-02	2020/7/14	2021/7/14
Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2020/7/14	2021/7/14
Pre-Amplifier(0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	EMC2063	2020/10/20	2021/10/19
Pre-amplifier(26-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020/3/2	2021/3/1
Band filter	N/A	N/A	N/A	N/A	N/A
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020/6/12	2021/6/11

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7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of Set-Up for AR/2020/B0003.

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Appendix

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Emission Bandwidth

Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	24.210	5168.810	5193.020	---	PASS
		5200	22.260	5188.870	5211.130	---	PASS
		5240	22.110	5228.810	5250.920	---	PASS
		5260	22.440	5248.810	5271.250	---	PASS
		5300	22.080	5288.840	5310.920	---	PASS
		5320	22.110	5308.810	5330.920	---	PASS
		5500	22.590	5488.450	5511.040	---	PASS
		5580	22.170	5568.780	5590.950	---	PASS
		5700	22.680	5688.480	5711.160	---	PASS
		5745	22.380	5733.750	5756.130	---	PASS
		5785	23.040	5773.750	5796.790	---	PASS
		5825	22.560	5813.600	5836.160	---	PASS
11N20SISO	Ant1	5180	24.330	5167.580	5191.910	---	PASS
		5200	23.670	5188.120	5211.790	---	PASS
		5240	23.670	5228.150	5251.820	---	PASS
		5260	24.240	5248.060	5272.300	---	PASS
		5300	23.220	5288.570	5311.790	---	PASS
		5320	23.550	5308.240	5331.790	---	PASS
		5500	23.610	5488.210	5511.820	---	PASS
		5580	23.790	5568.030	5591.820	---	PASS
		5700	23.910	5688.090	5712.000	---	PASS
		5745	23.760	5733.060	5756.820	---	PASS
		5785	24.240	5772.550	5796.790	---	PASS
		5825	23.700	5813.090	5836.790	---	PASS
11N40SISO	Ant1	5190	41.820	5168.940	5210.760	---	PASS
		5230	41.040	5209.600	5250.640	---	PASS
		5270	41.280	5249.420	5290.700	---	PASS
		5310	41.460	5289.240	5330.700	---	PASS

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		5510	40.800	5489.720	5530.520	---	PASS
		5550	40.740	5529.780	5570.520	---	PASS
		5670	41.340	5649.360	5690.700	---	PASS
		5755	41.580	5734.120	5775.700	---	PASS
		5795	41.460	5774.240	5815.700	---	PASS
11AC20SISO	Ant1	5180	24.390	5168.060	5192.450	---	PASS
		5200	23.700	5188.120	5211.820	---	PASS
		5240	23.760	5228.090	5251.850	---	PASS
		5260	24.660	5248.180	5272.840	---	PASS
		5300	23.850	5288.060	5311.910	---	PASS
		5320	23.370	5308.540	5331.910	---	PASS
		5500	23.670	5488.120	5511.790	---	PASS
		5580	23.850	5568.060	5591.910	---	PASS
		5700	24.300	5688.090	5712.390	---	PASS
		5745	23.550	5733.240	5756.790	---	PASS
		5785	23.730	5773.090	5796.820	---	PASS
		5825	23.430	5813.360	5836.790	---	PASS
11AC40SISO	Ant1	5190	42.180	5168.820	5211.000	---	PASS
		5230	41.940	5208.880	5250.820	---	PASS
		5270	41.880	5249.120	5291.000	---	PASS
		5310	41.700	5289.120	5330.820	---	PASS
		5510	41.640	5489.120	5530.760	---	PASS
		5550	41.700	5529.240	5570.940	---	PASS
		5670	41.460	5649.240	5690.700	---	PASS
		5755	41.820	5733.820	5775.640	---	PASS
		5795	41.760	5774.060	5815.820	---	PASS
11AC80SISO	Ant1	5210	84.120	5167.880	5252.000	---	PASS
		5290	84.000	5248.000	5332.000	---	PASS
		5530	84.120	5487.760	5571.880	---	PASS
		5610	84.600	5567.400	5652.000	---	PASS
		5775	84.240	5732.640	5816.880	---	PASS

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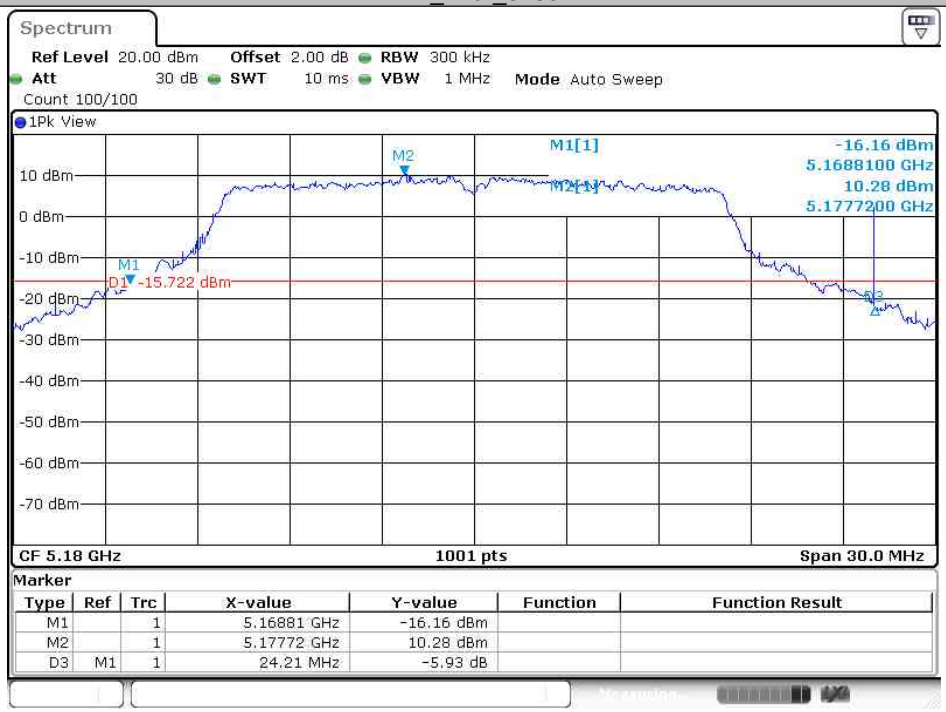
Test Graphs

11A_Ant1_5180



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.16881 GHz	-16.16 dBm		
M2		1	5.17772 GHz	10.28 dBm		
D3	M1	1	24.21 MHz	-5.93 dB		

Date: 4.DEC.2020 10:39:14

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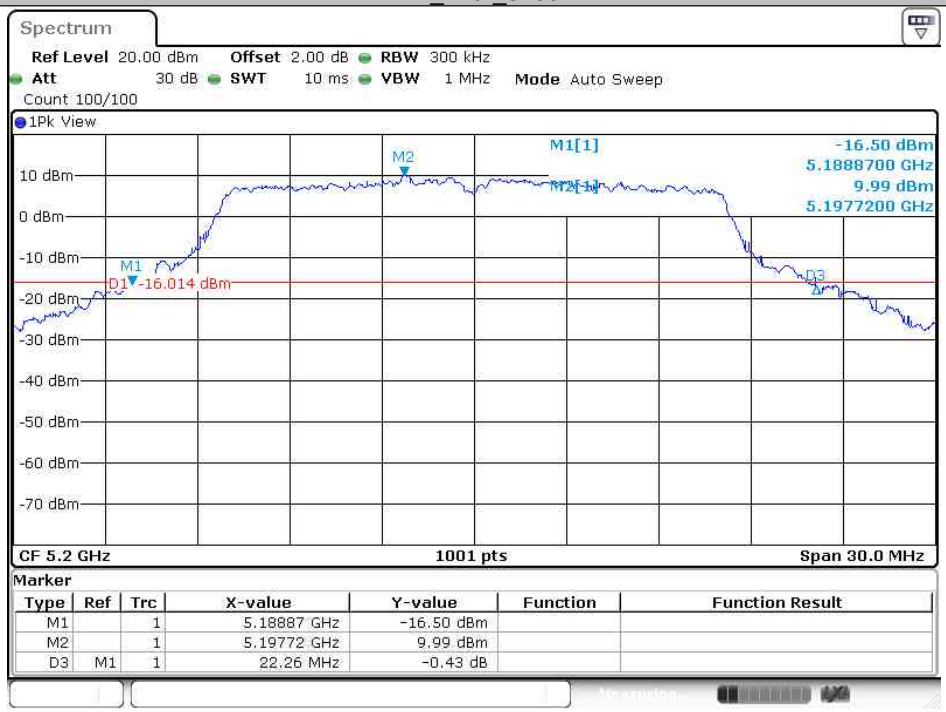
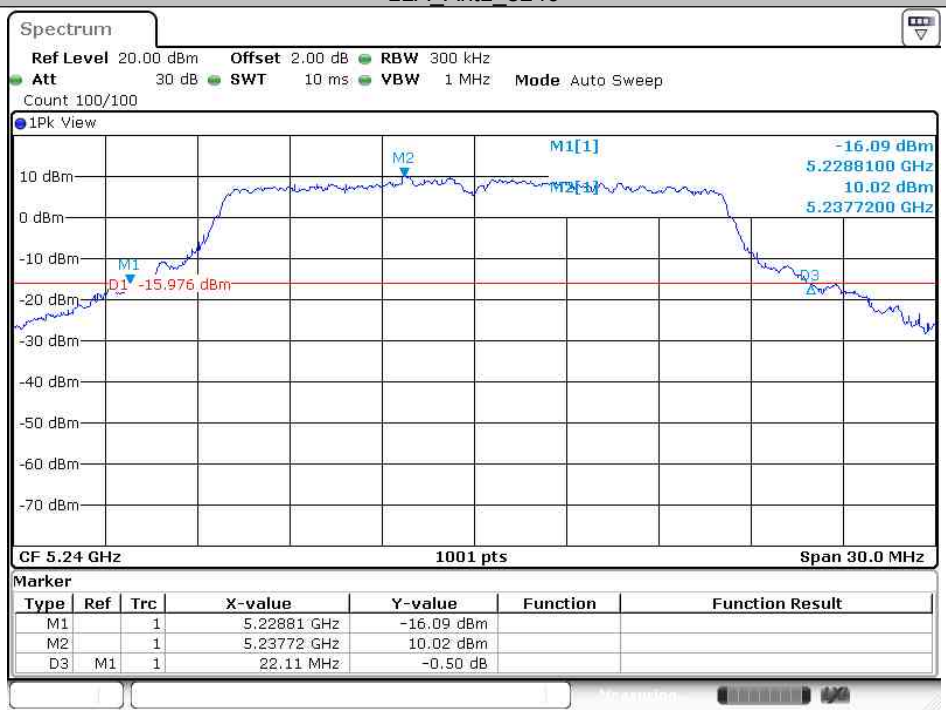
11A_Ant1_5200



Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.18887 GHz	-16.50 dBm		
M2		1	5.19772 GHz	9.99 dBm		
D3	M1	1	22.26 MHz	-0.43 dB		

Date: 4.DEC.2020 10:41:25

11A_Ant1_5240



Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.22881 GHz	-16.09 dBm		
M2		1	5.23772 GHz	10.02 dBm		
D3	M1	1	22.11 MHz	-0.50 dB		

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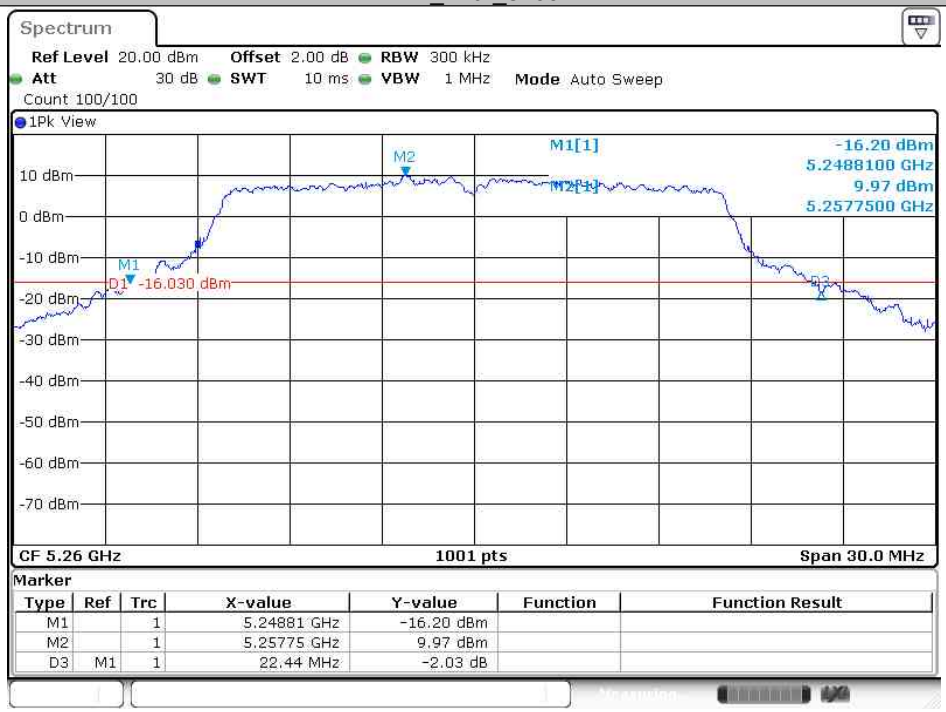
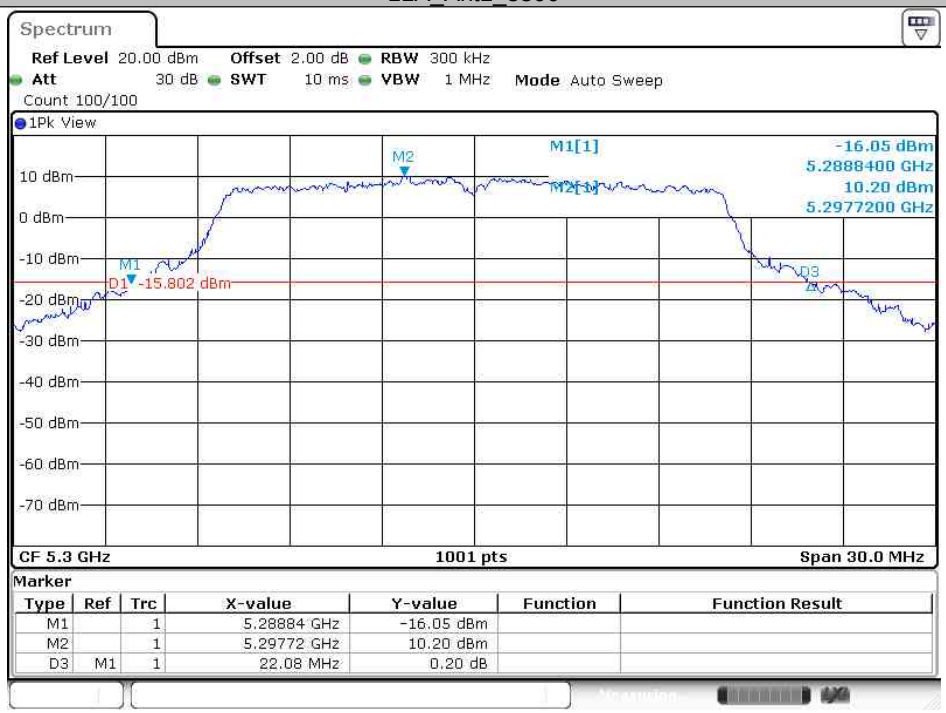
11A_Ant1_5260



Date: 4.DEC.2020 10:44:50

11A_Ant1_5300



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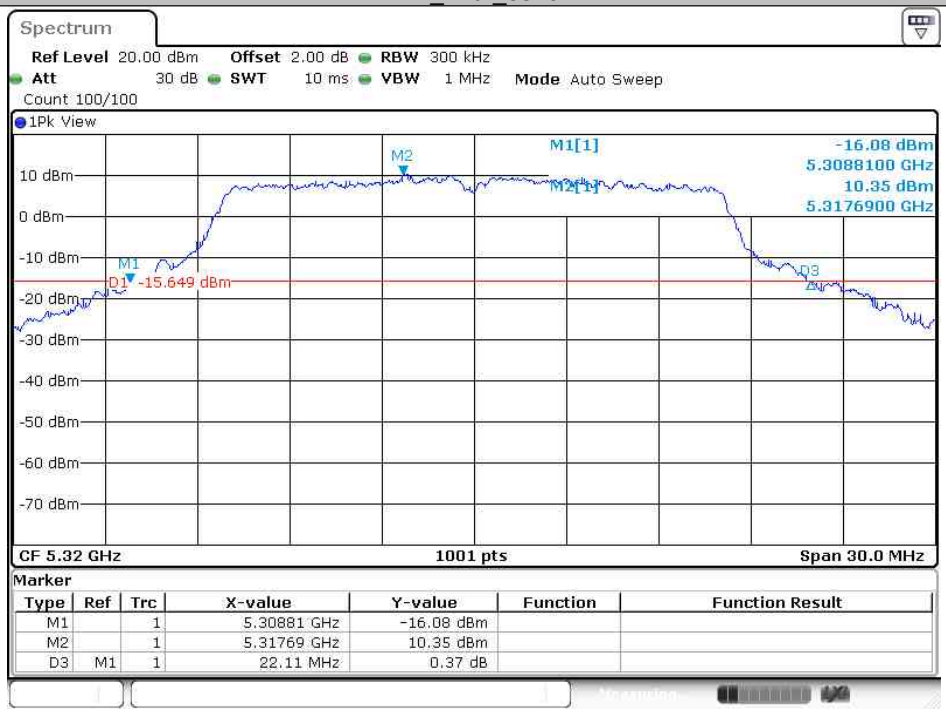
11A_Ant1_5320



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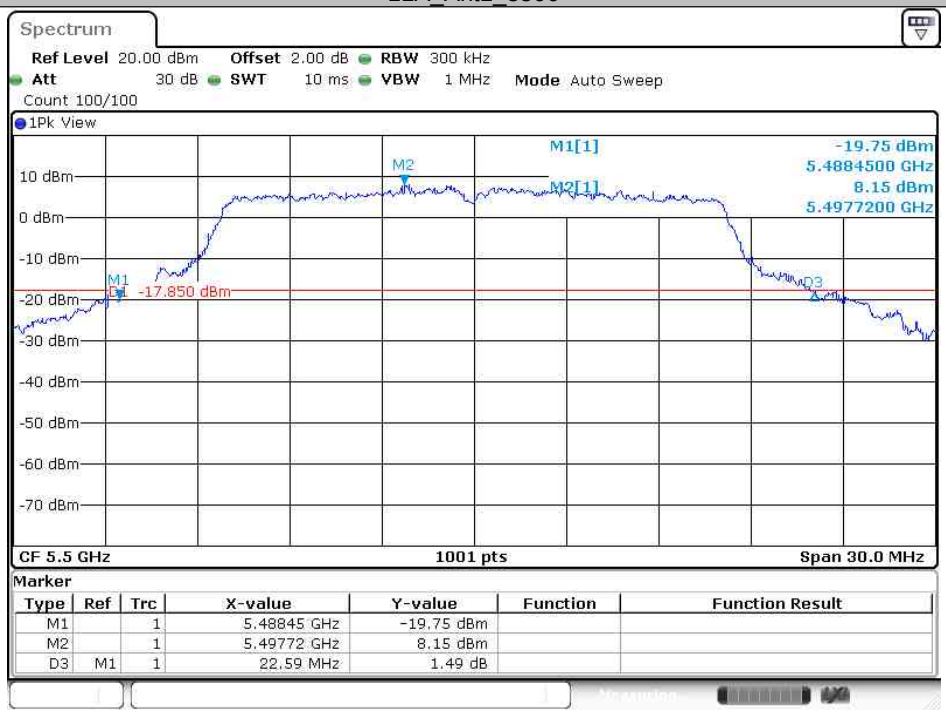

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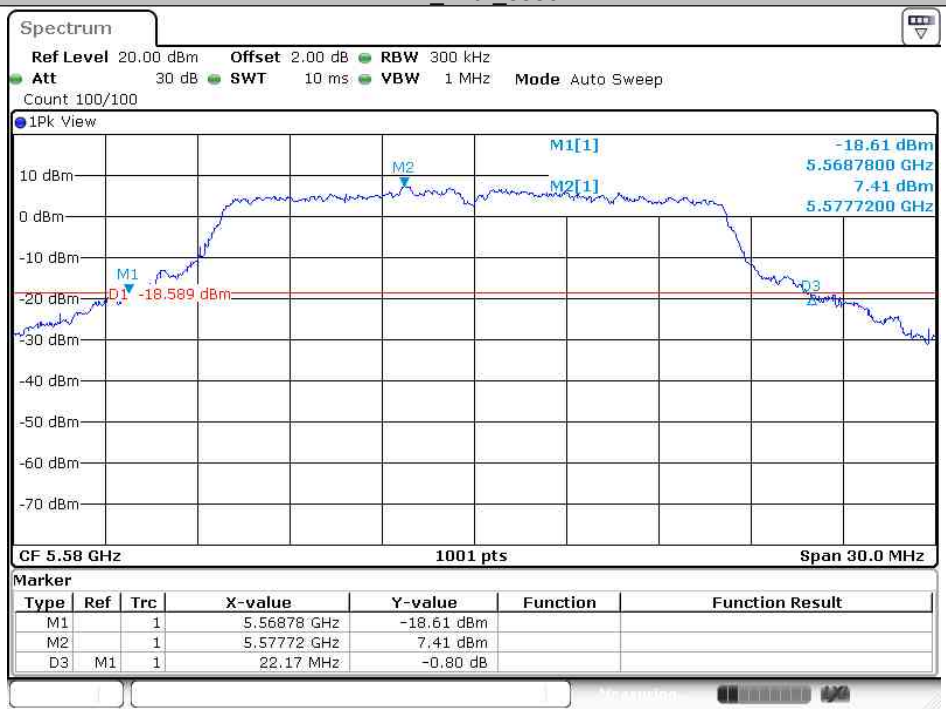
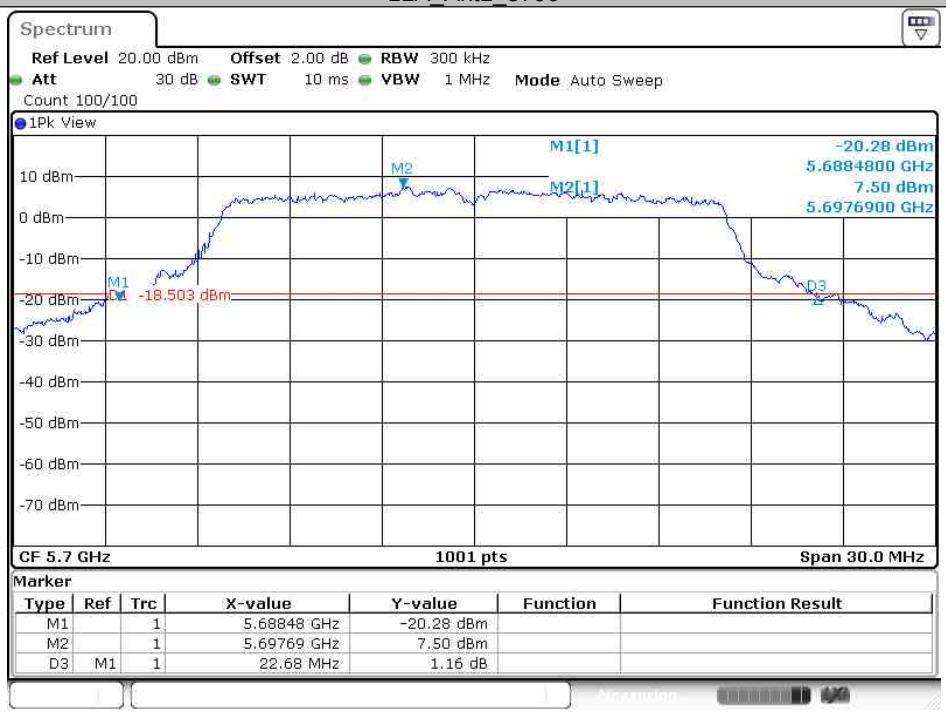
11A_Ant1_5580



Date:4.DEC.2020 10:52:07

11A_Ant1_5700



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11A_Ant1_5745

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11A_Ant1_5785

Date: 4.DEC.2020 11:08:25

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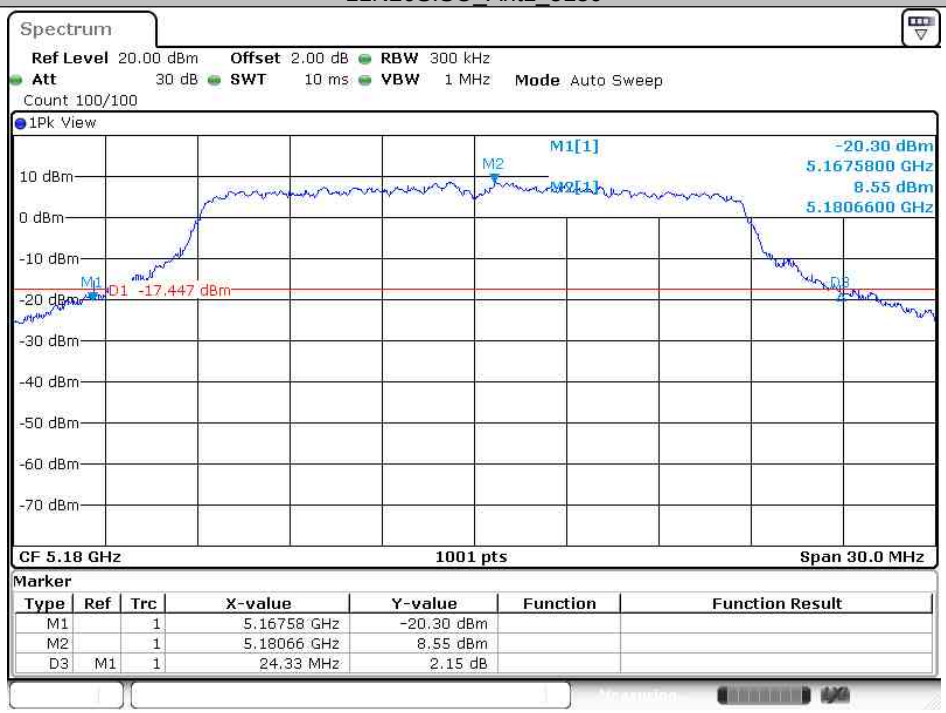
11A_Ant1_5825

Date: 4.DEC.2020 11:12:34

11N20SISO_Ant1_5180



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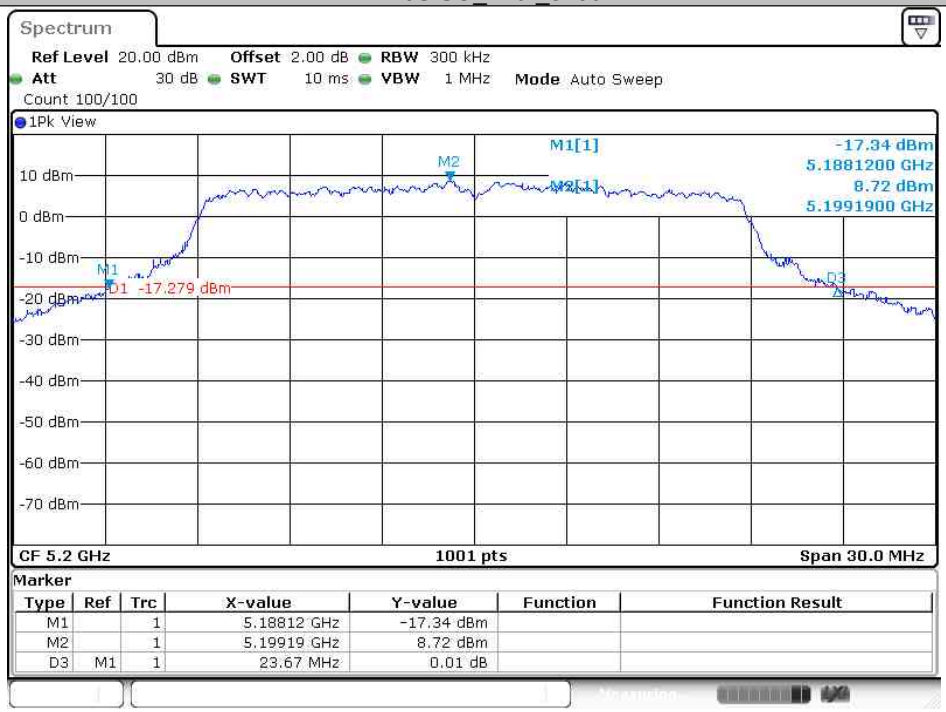

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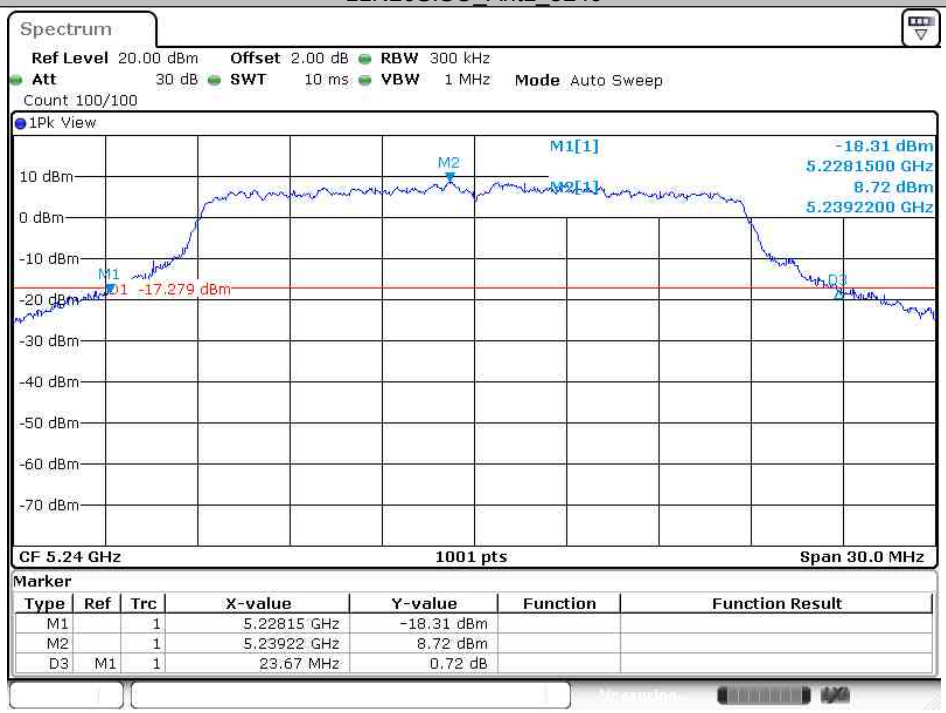

Date: 4.DEC.2020 11:19:17

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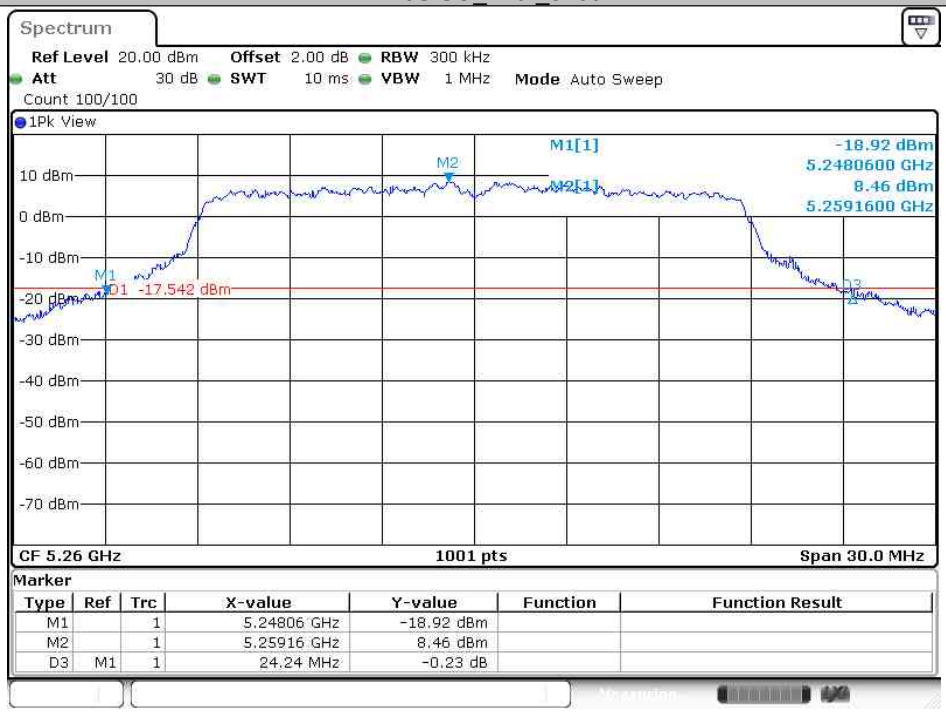
11N20SISO_Ant1_5260

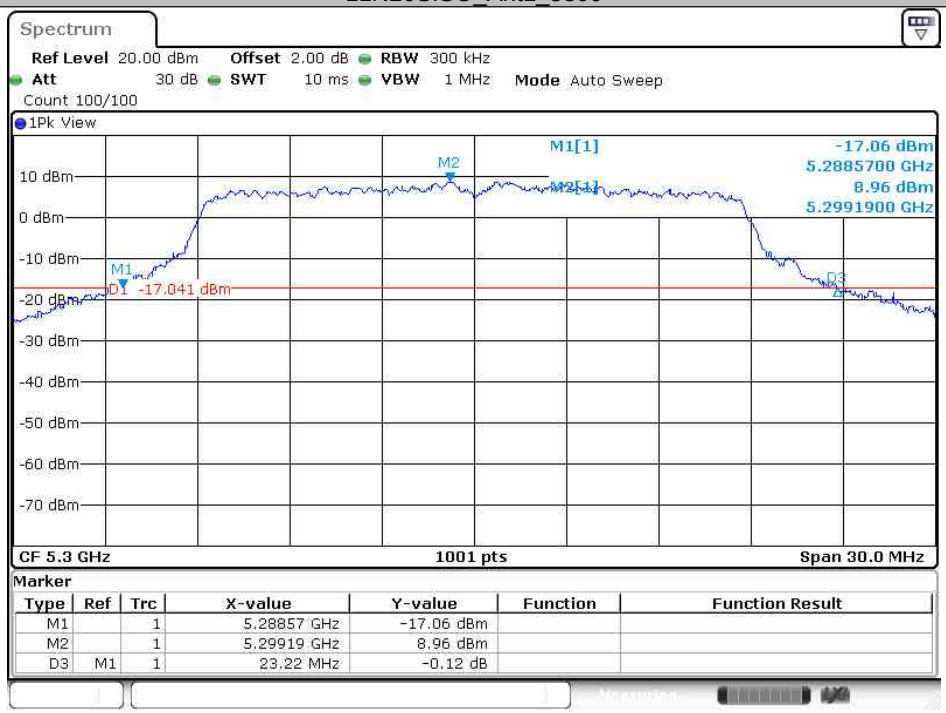


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.24806 GHz	-18.92 dBm		
M2		1	5.25916 GHz	8.46 dBm		
D3	M1	1	24.24 MHz	-0.23 dB		

Date: 4.DEC.2020 11:20:53

11N20SISO_Ant1_5300



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.28857 GHz	-17.06 dBm		
M2		1	5.29919 GHz	8.96 dBm		
D3	M1	1	23.22 MHz	-0.12 dB		

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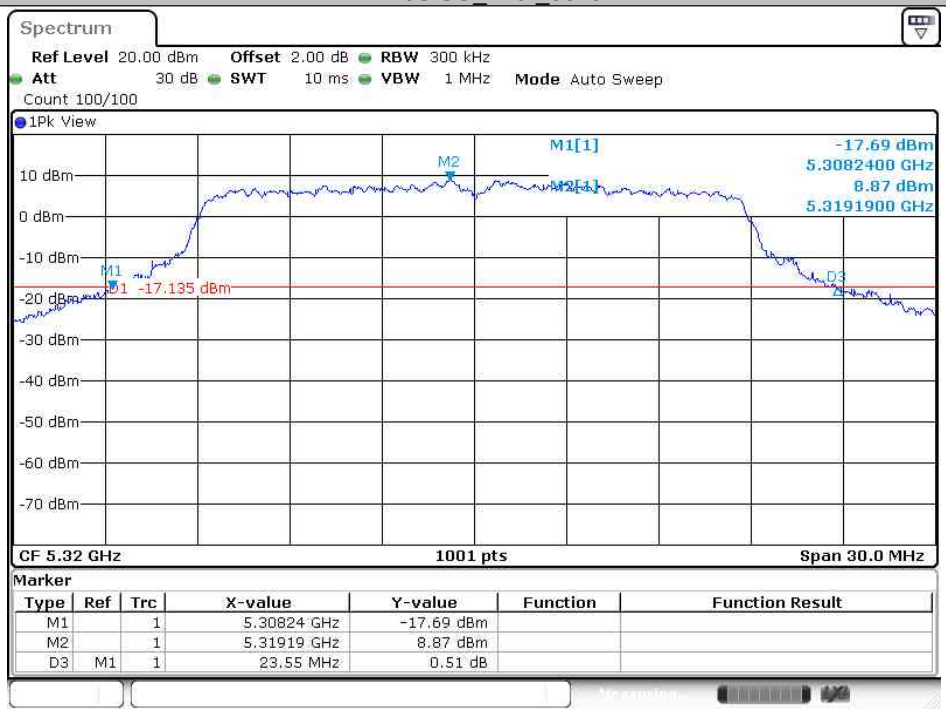
11N20SISO_Ant1_5320



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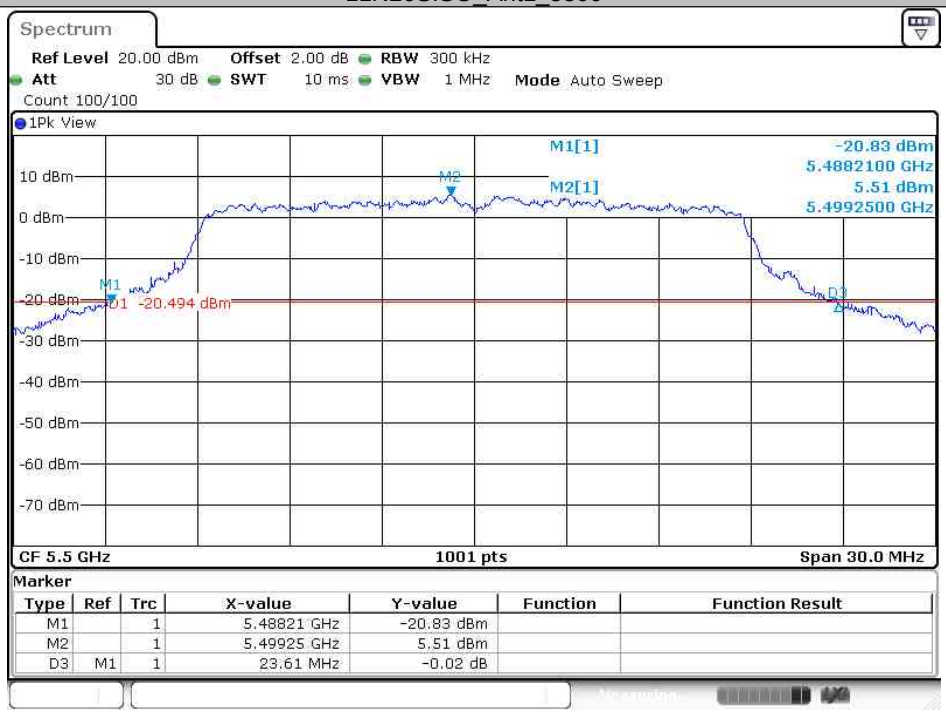

Date: 4.DEC.2020 11:26:12

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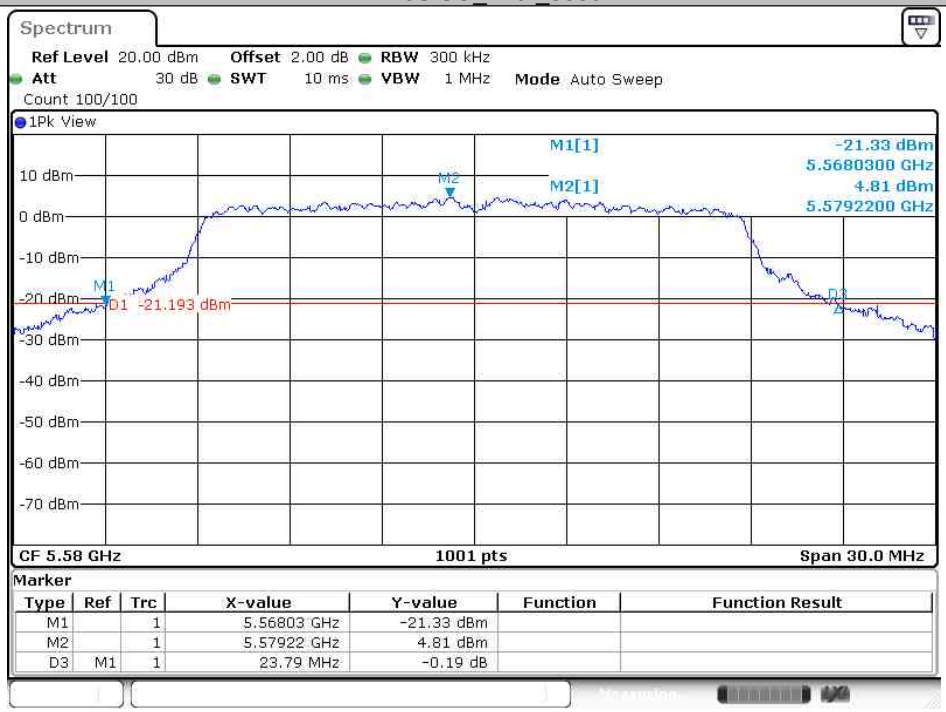
11N20SISO_Ant1_5580



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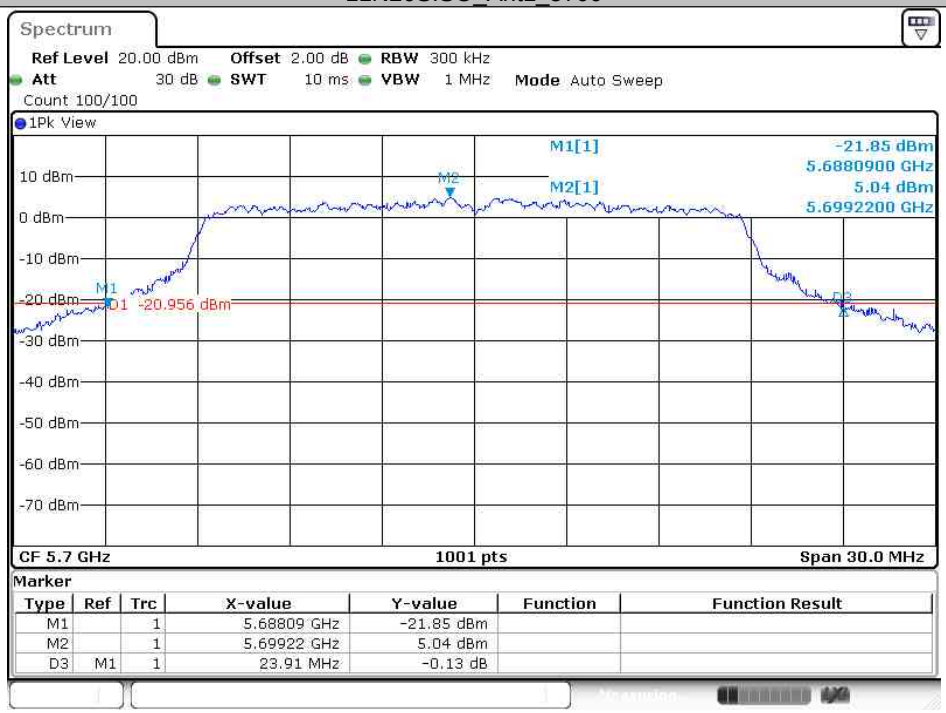

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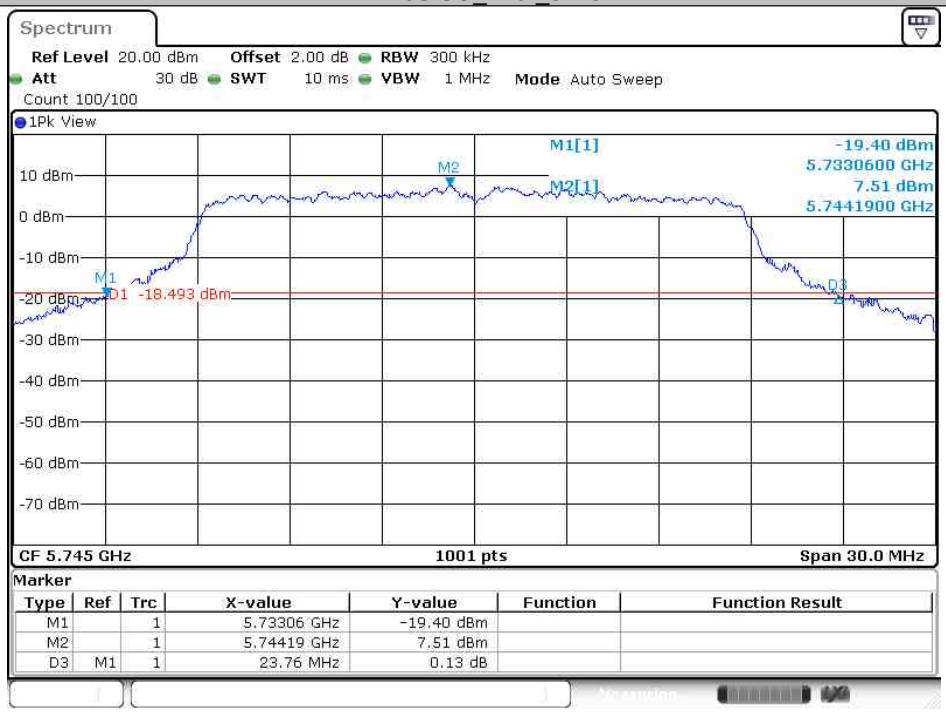

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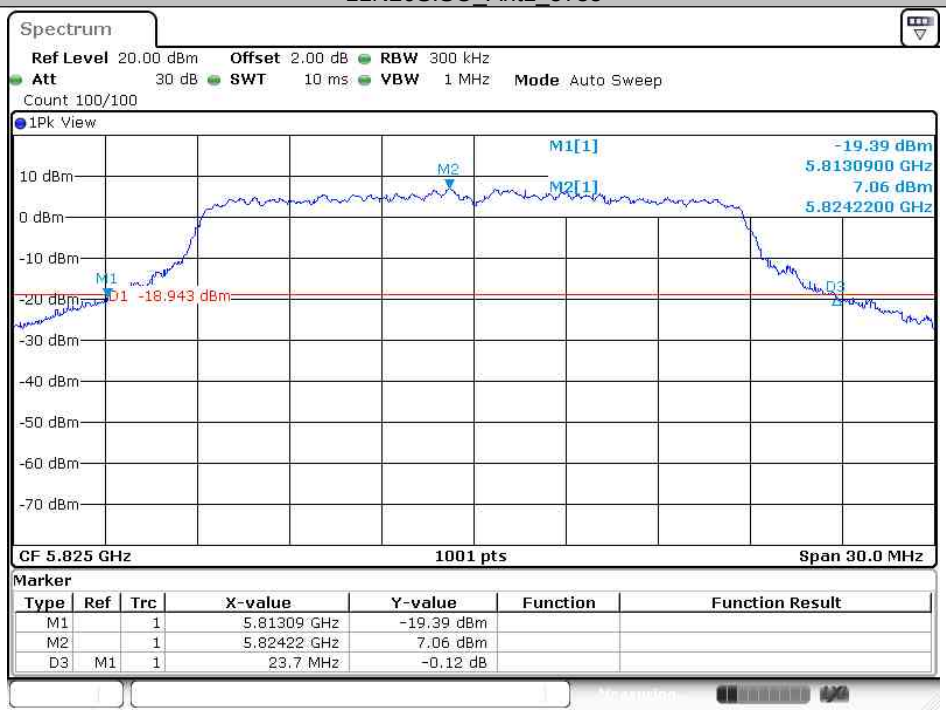

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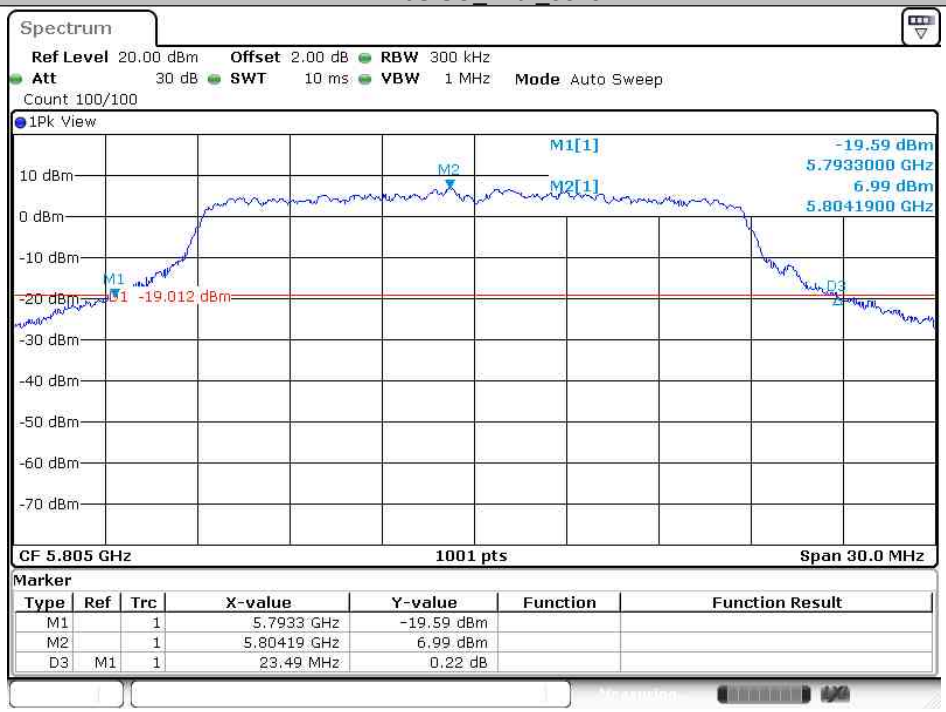

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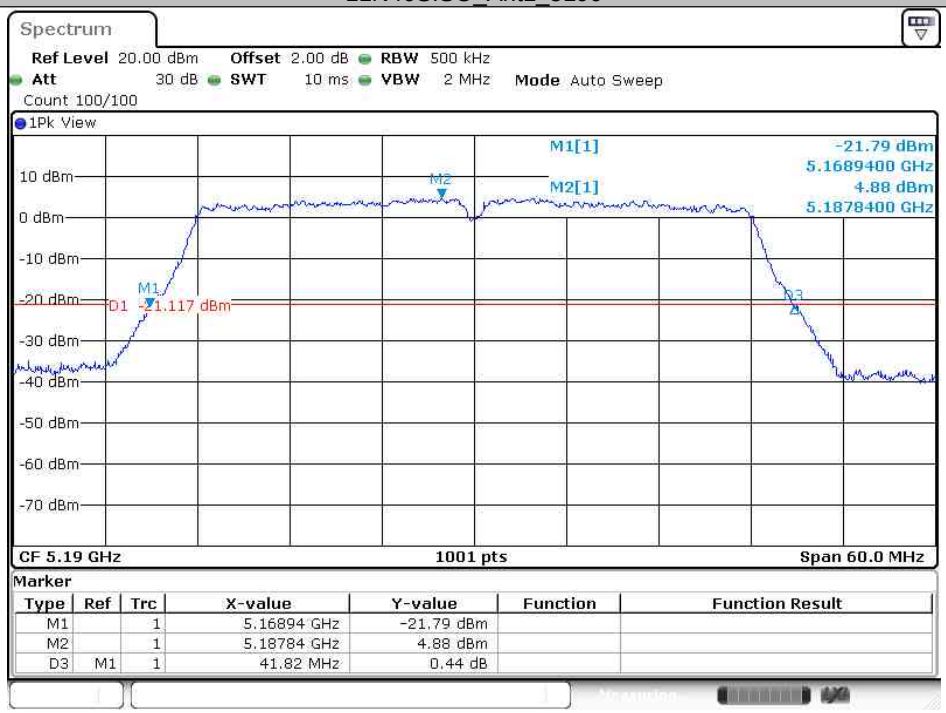

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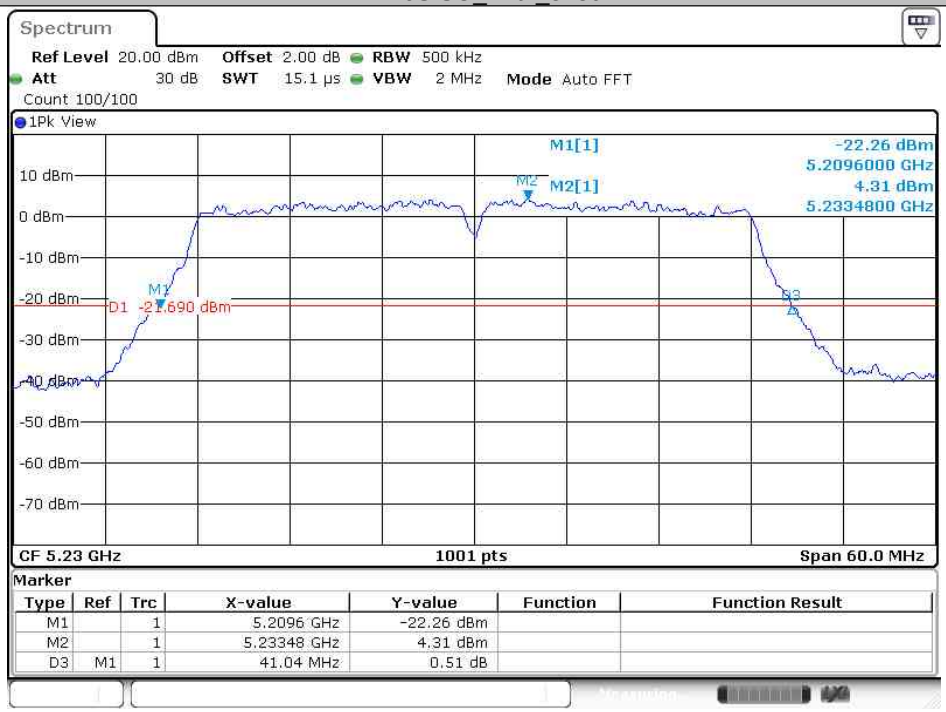

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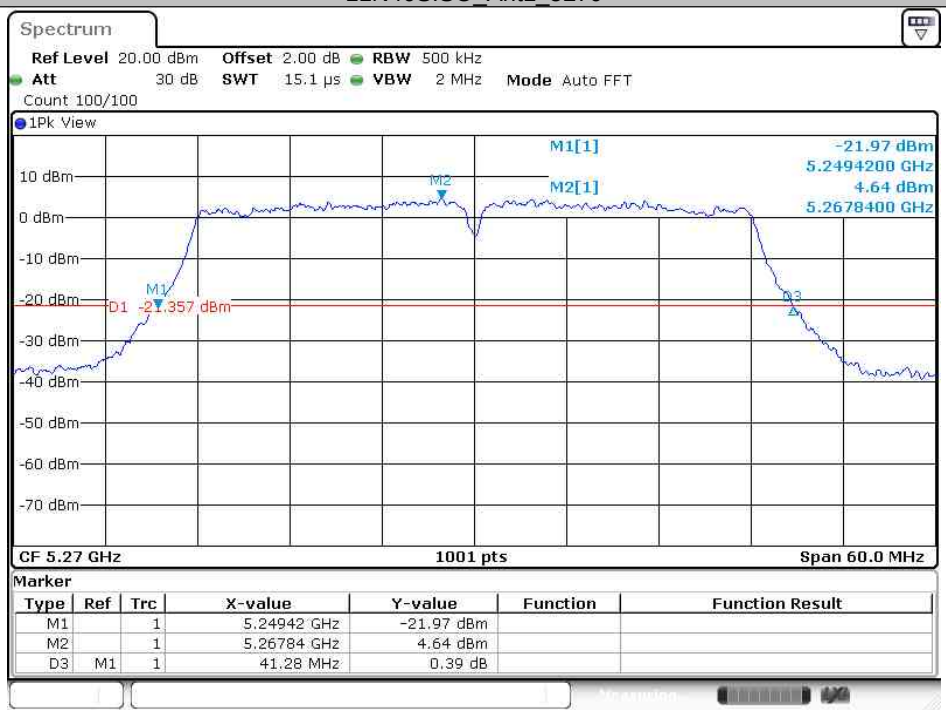

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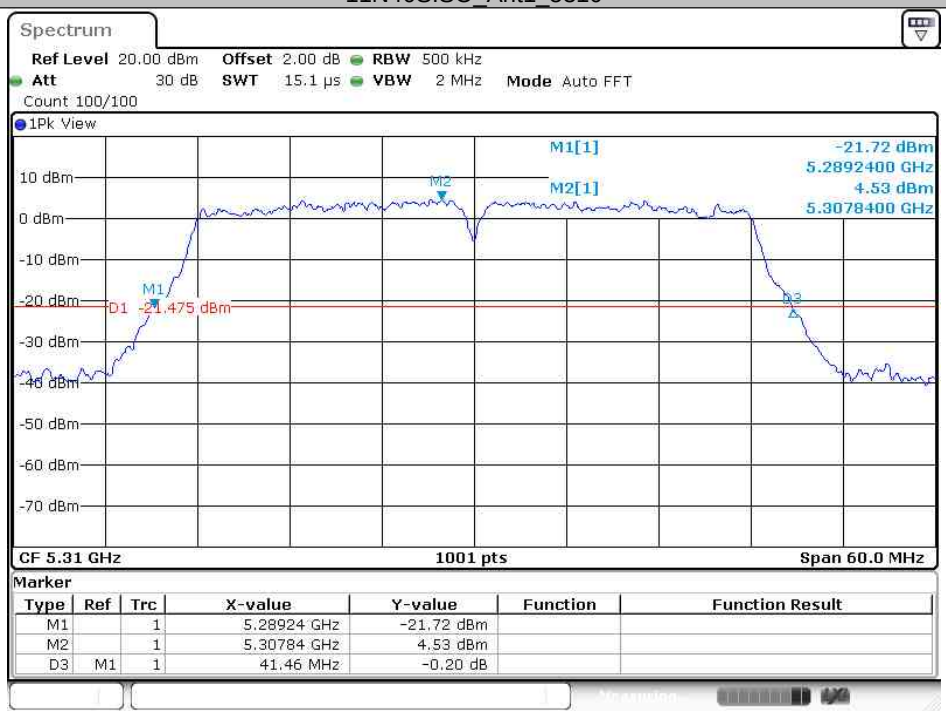

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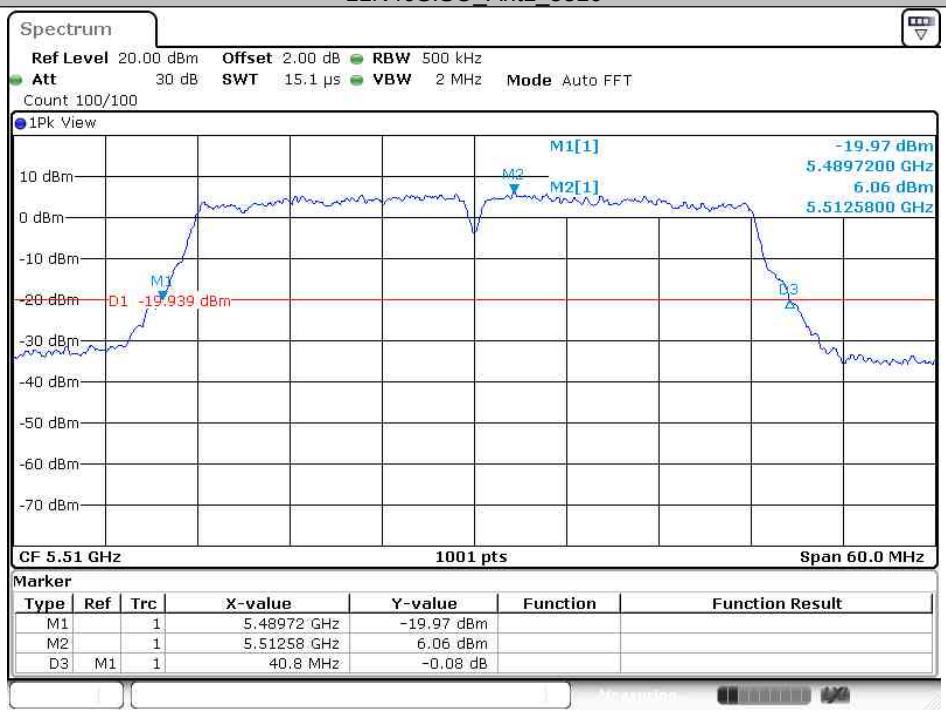

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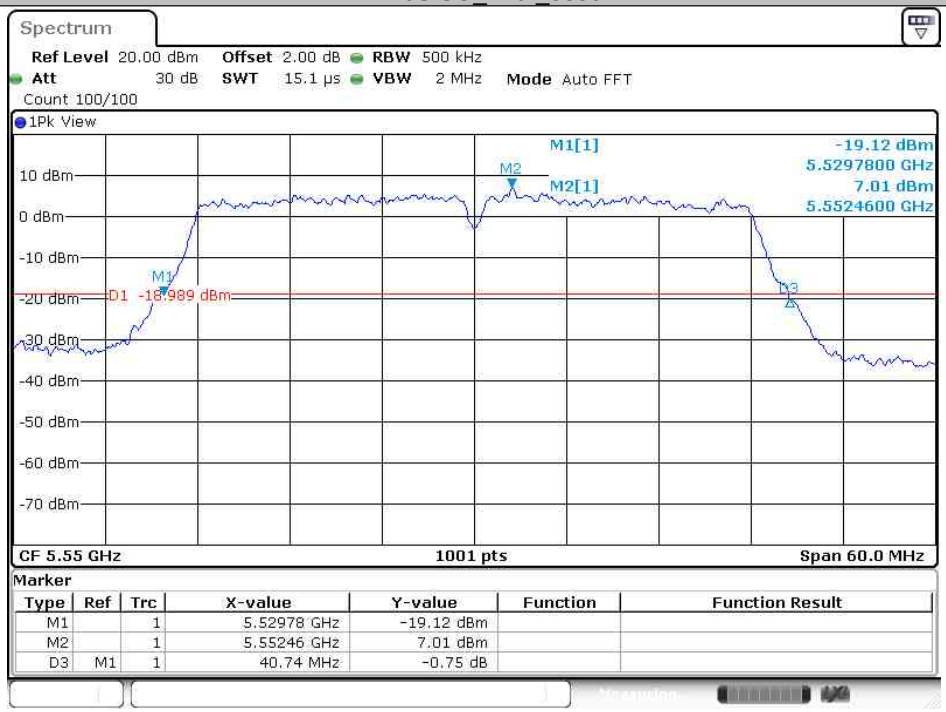

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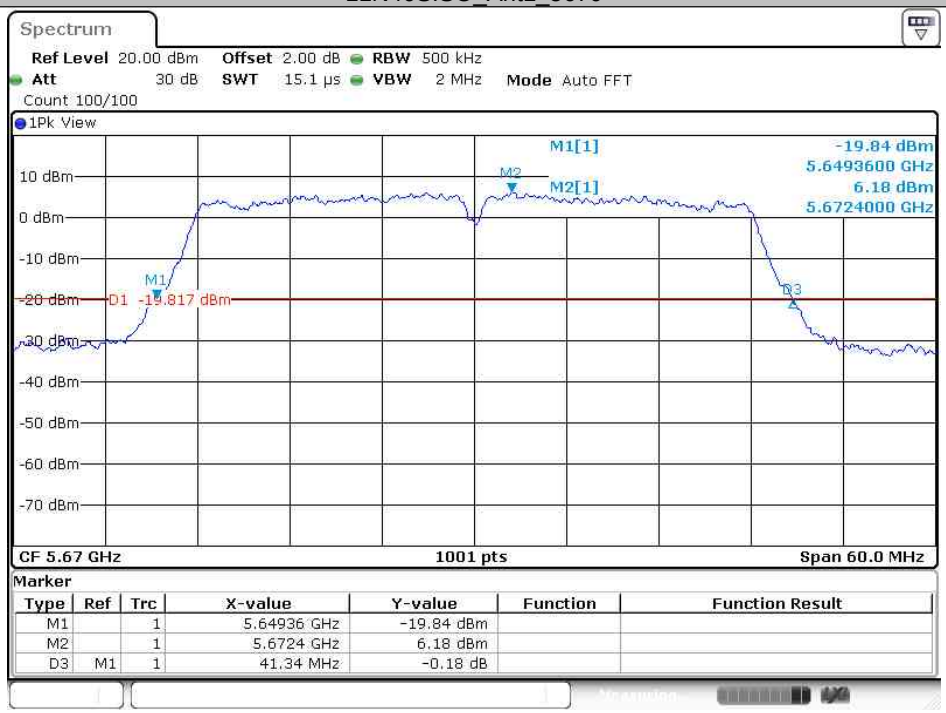

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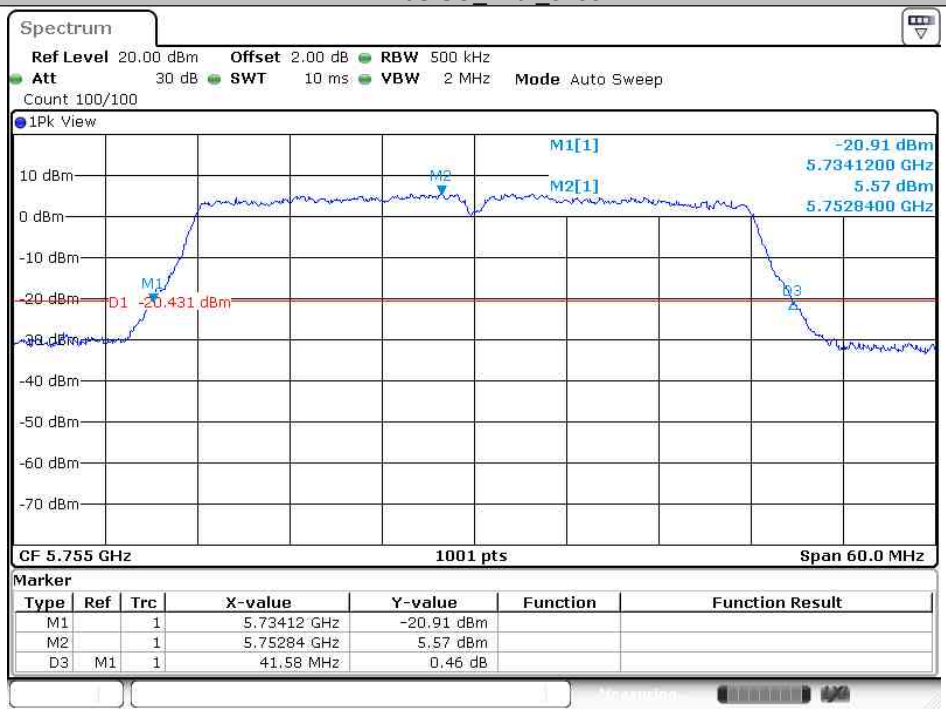

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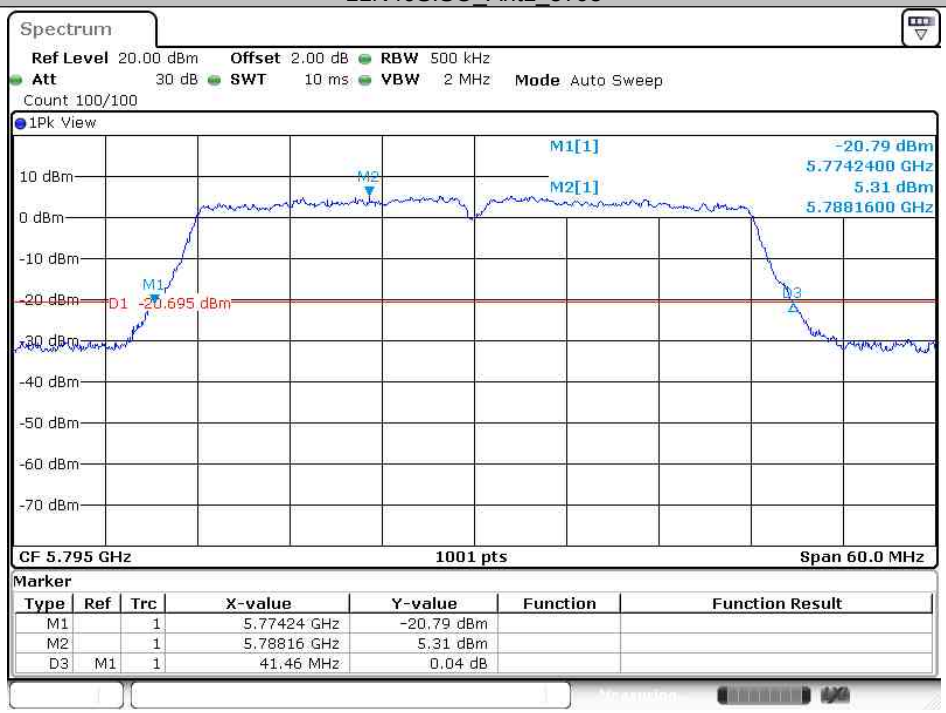

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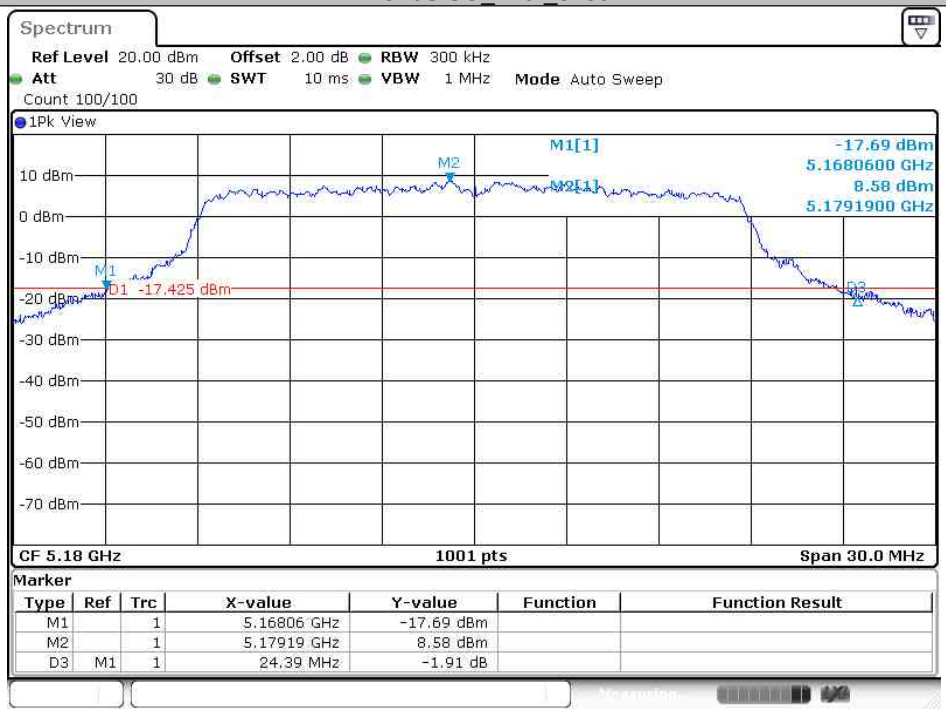
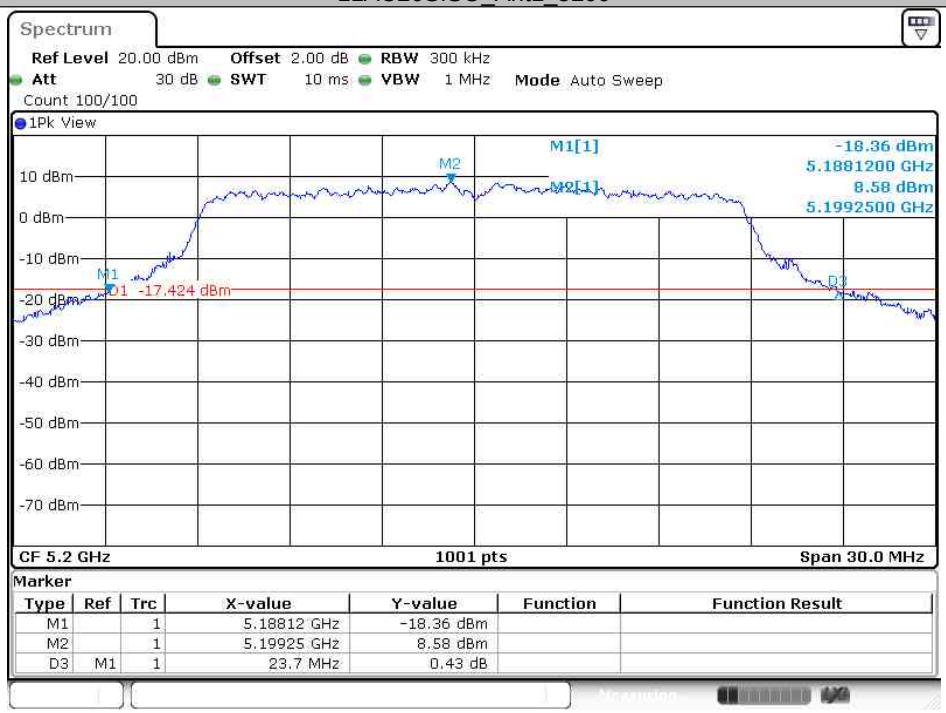


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.16806 GHz	-17.69 dBm		
M2		1	5.17919 GHz	8.58 dBm		
D3	M1	1	24.39 MHz	-1.91 dB		

Date: 4.DEC.2020 11:39:09

11AC20SISO_Ant1_5200



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.18812 GHz	-18.36 dBm		
M2		1	5.19925 GHz	8.58 dBm		
D3	M1	1	23.7 MHz	0.43 dB		

Date: 4.DEC.2020 11:41:07

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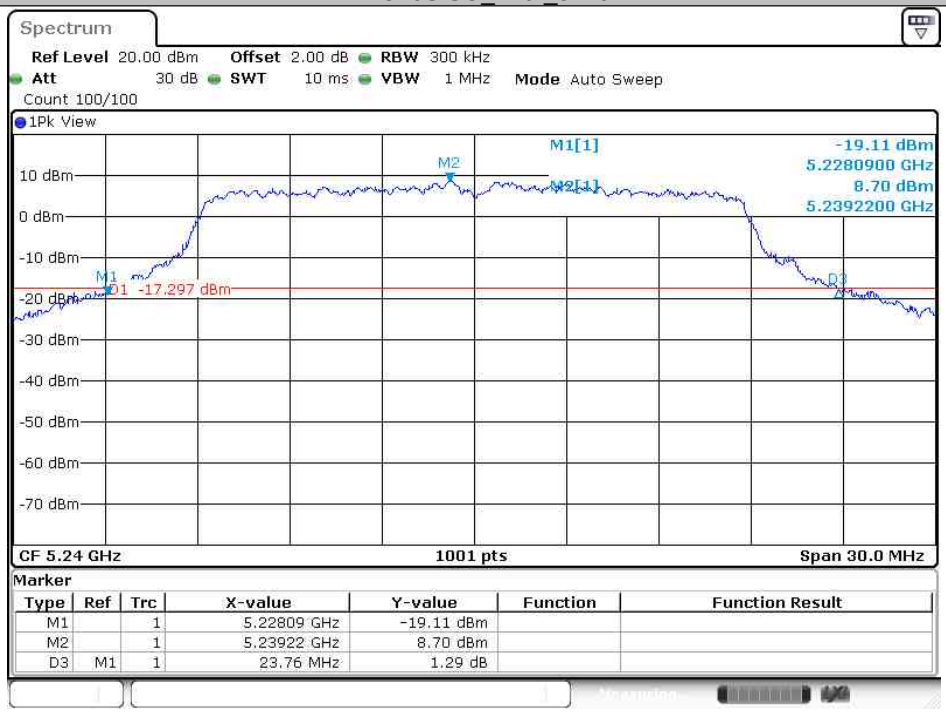

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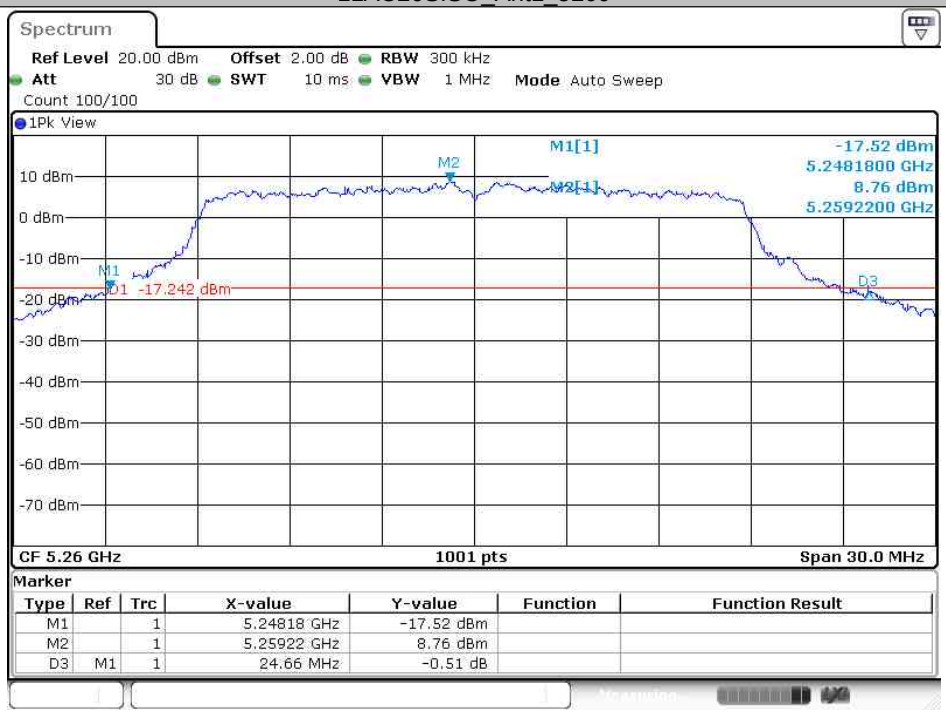

Date: 4.DEC.2020 11:45:09

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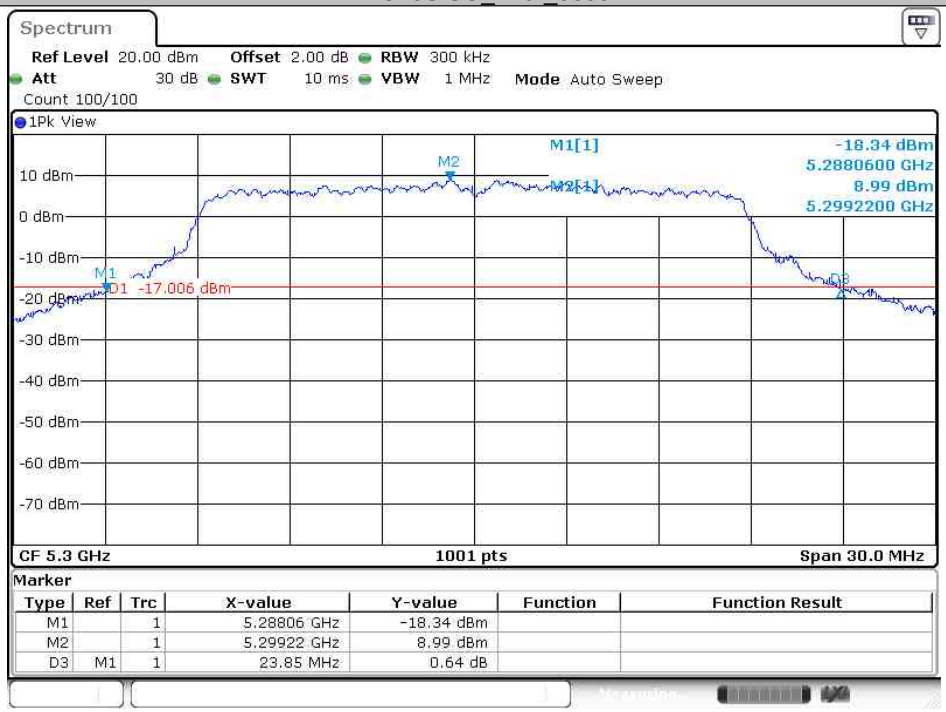
11AC20SISO_Ant1_5300

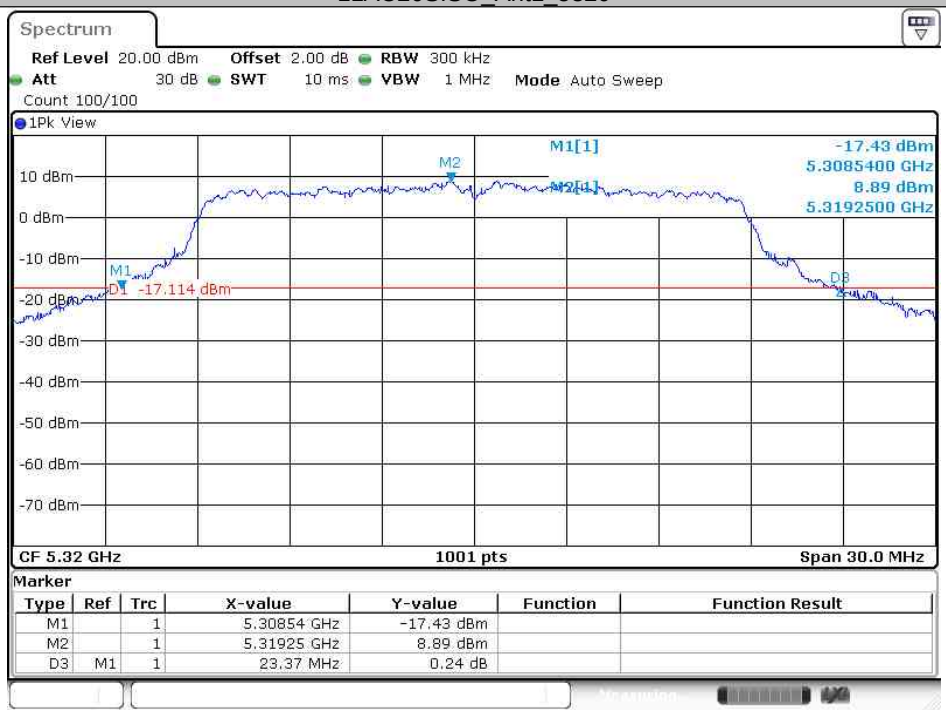


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.28806 GHz	-18.34 dBm		
M2		1	5.29922 GHz	8.99 dBm		
D3	M1	1	23.85 MHz	0.64 dB		

Date: 4.DEC.2020 11:46:49

11AC20SISO_Ant1_5320



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.30854 GHz	-17.43 dBm		
M2		1	5.31925 GHz	8.89 dBm		
D3	M1	1	23.37 MHz	0.24 dB		

Date: 4.DEC.2020 11:48:34

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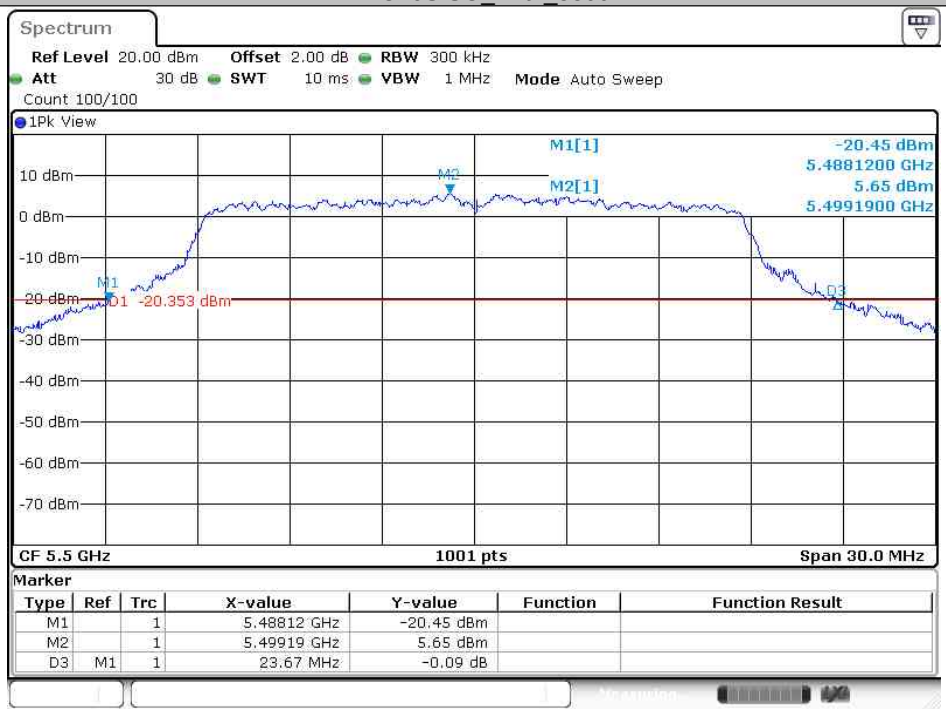

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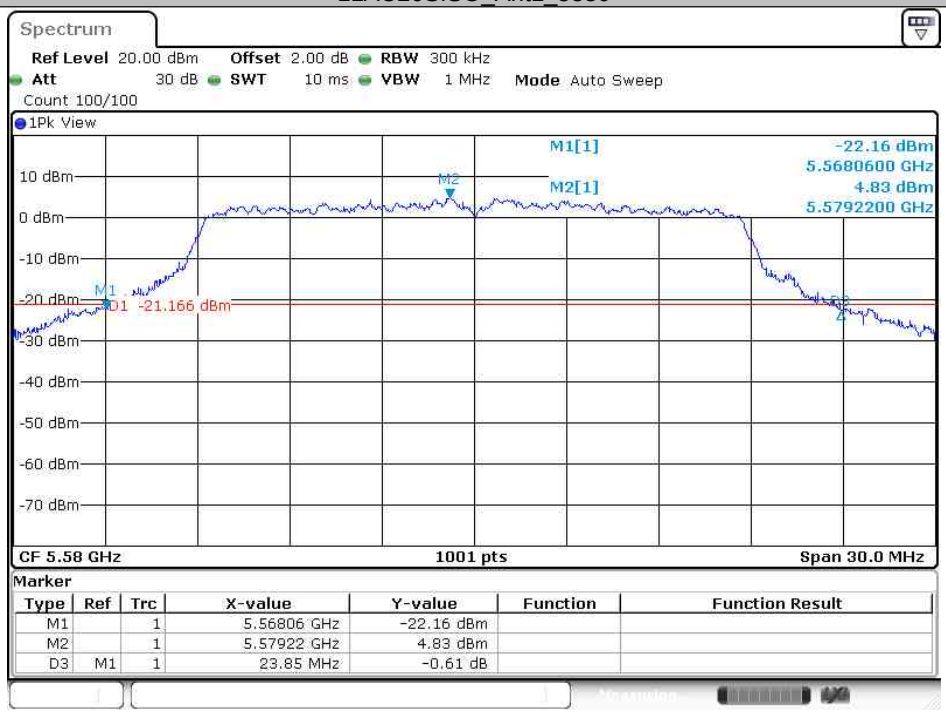

Date:4.DEC.2020 11:52:19

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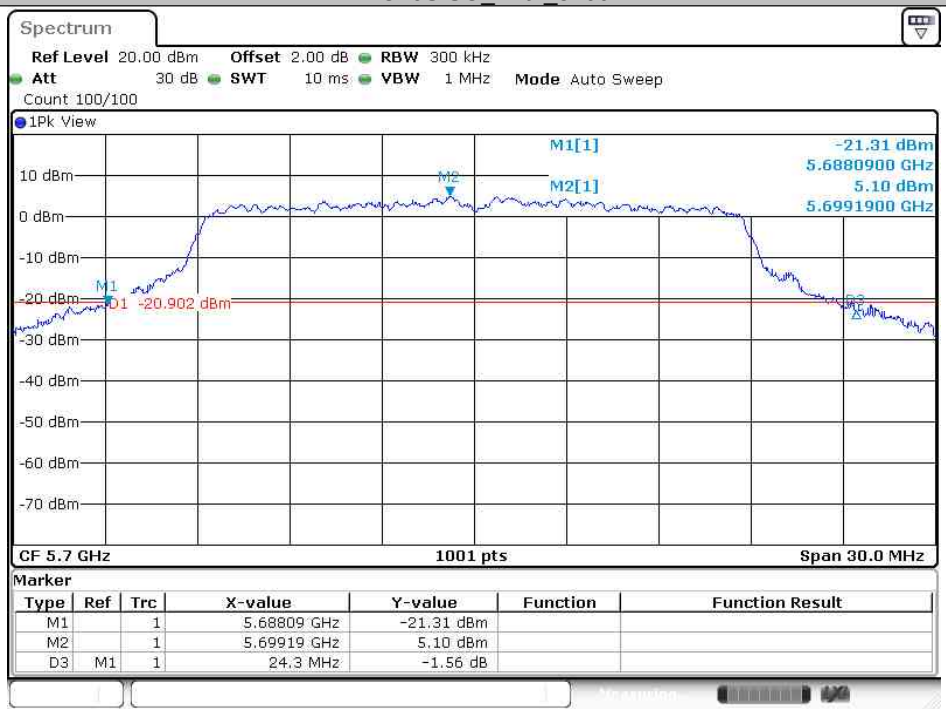

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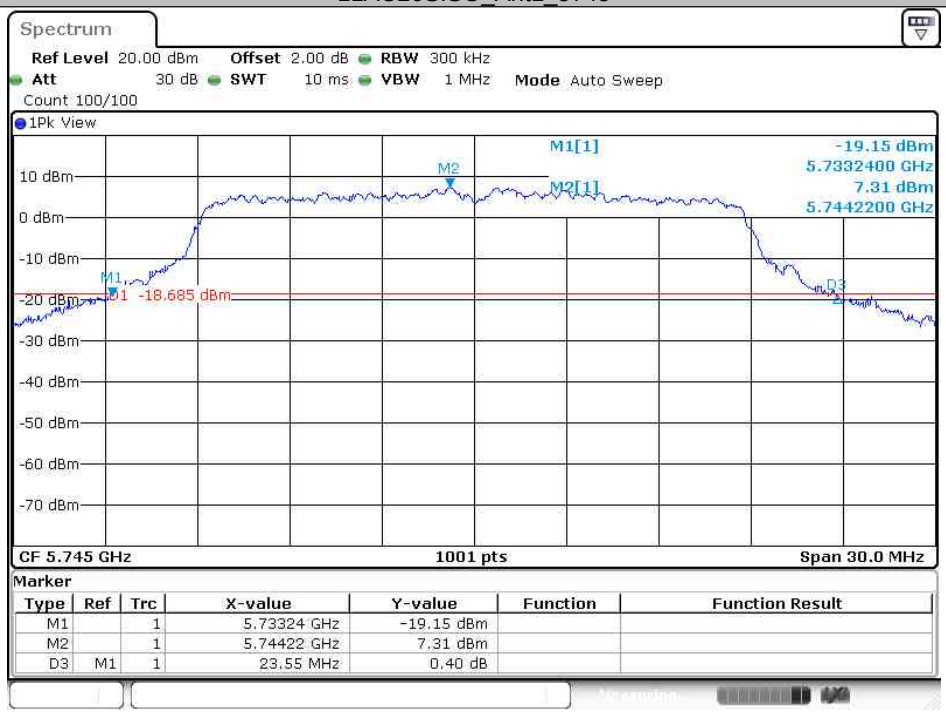

Date: 4.DEC.2020 11:55:55

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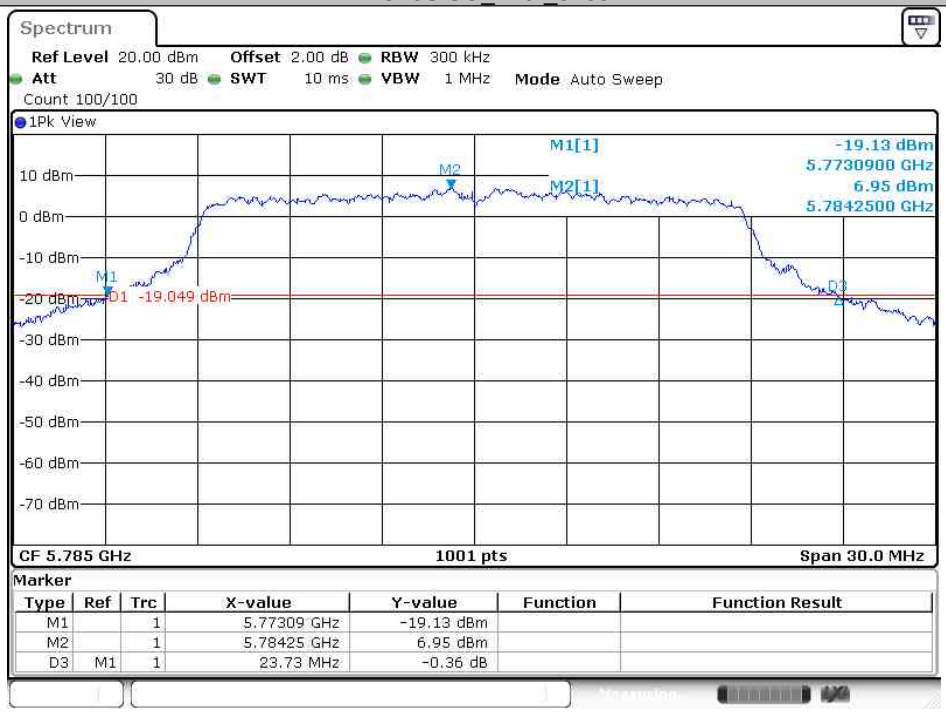

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11AC20SISO_Ant1_5825

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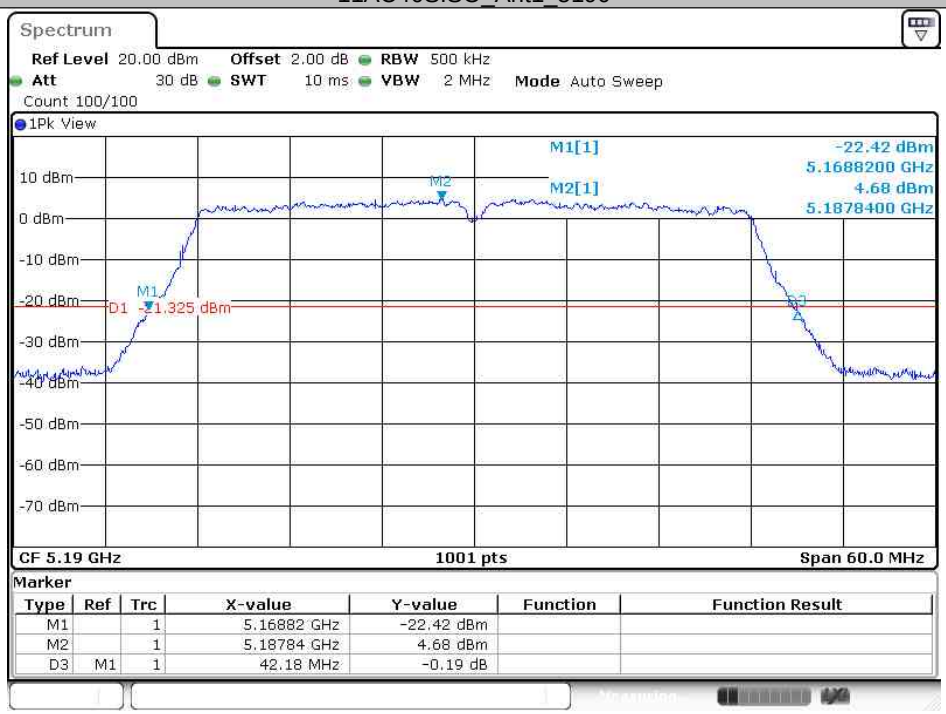

Date: 4.DEC.2020 14:46:49

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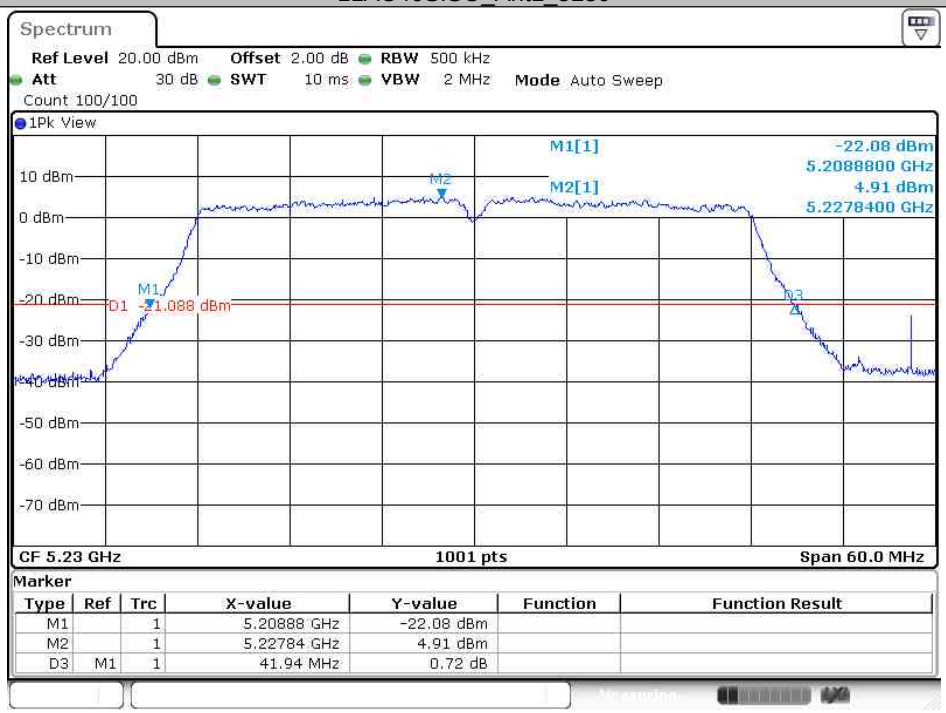

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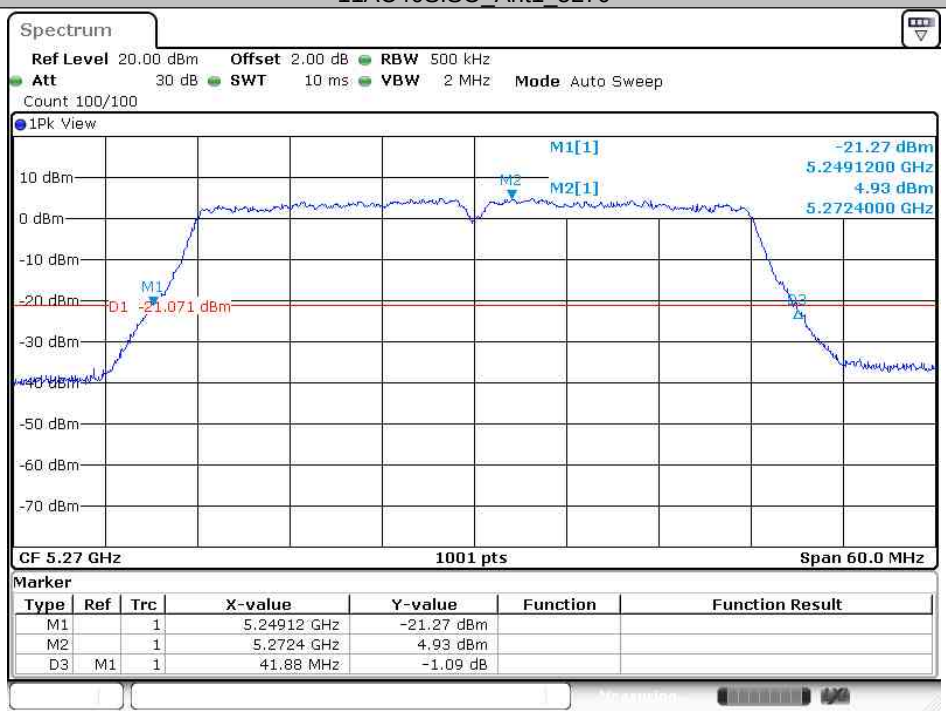

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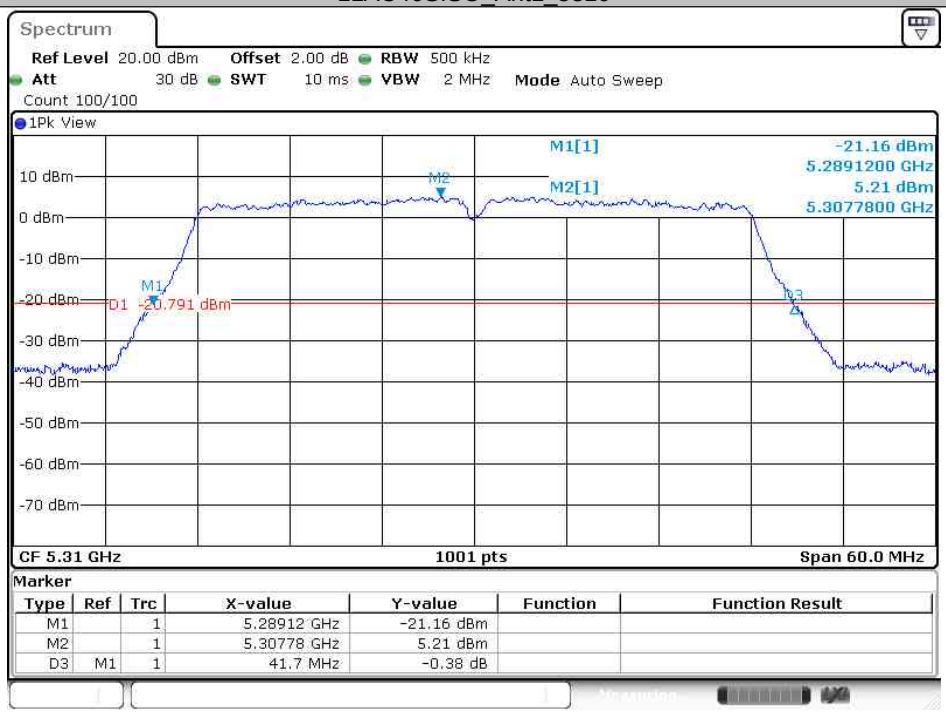

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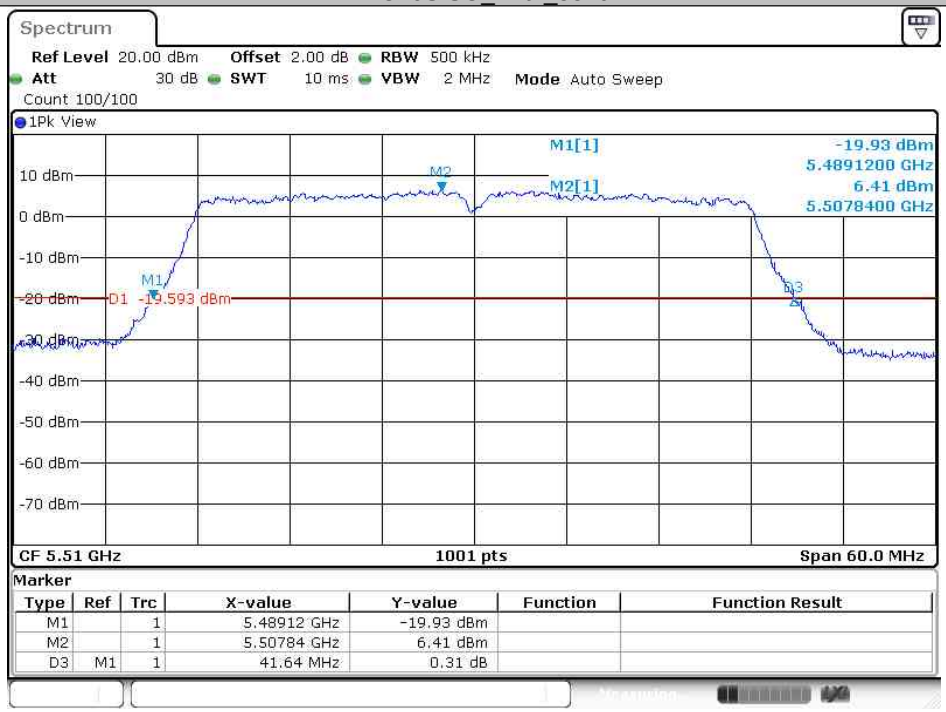

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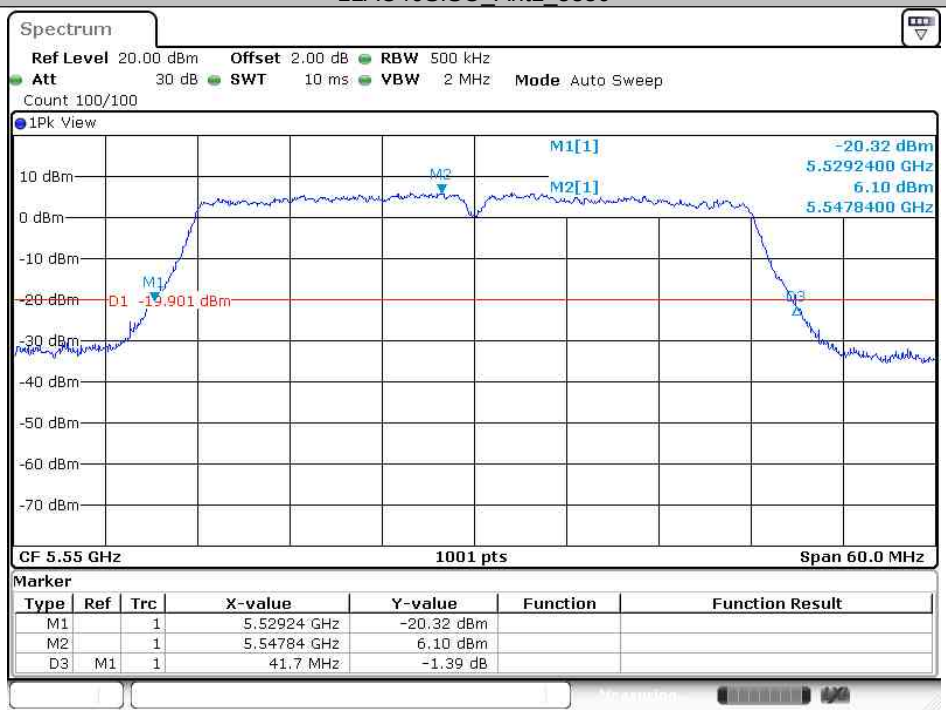

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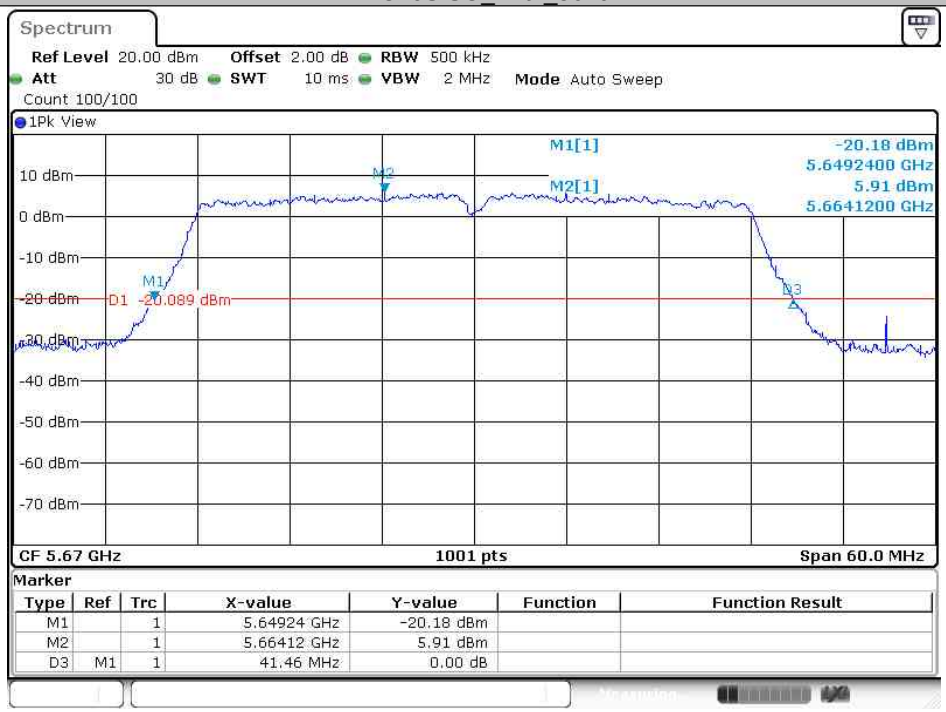

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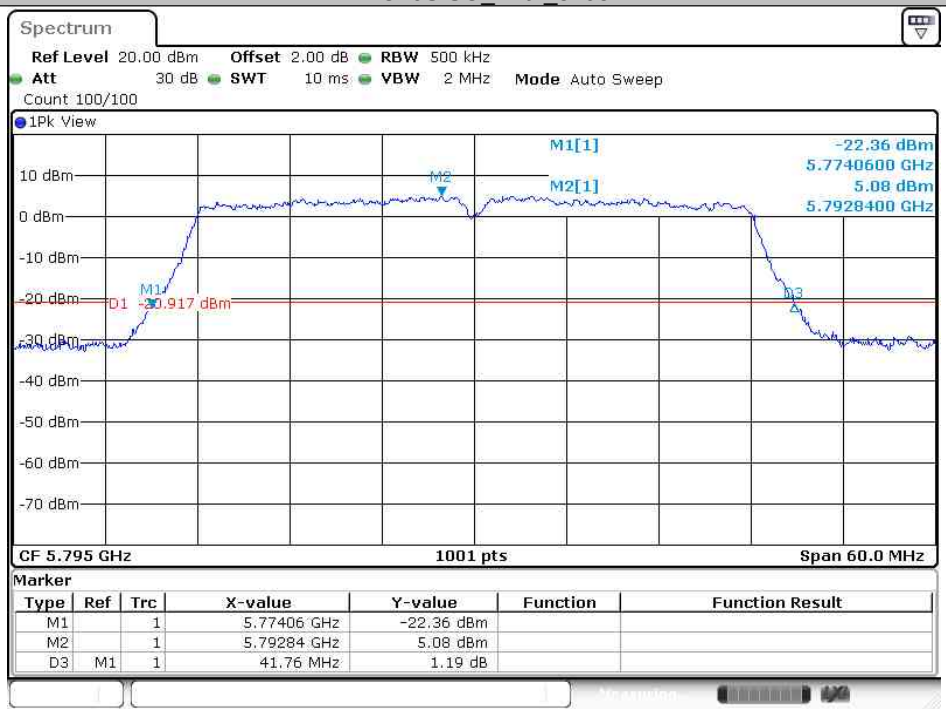

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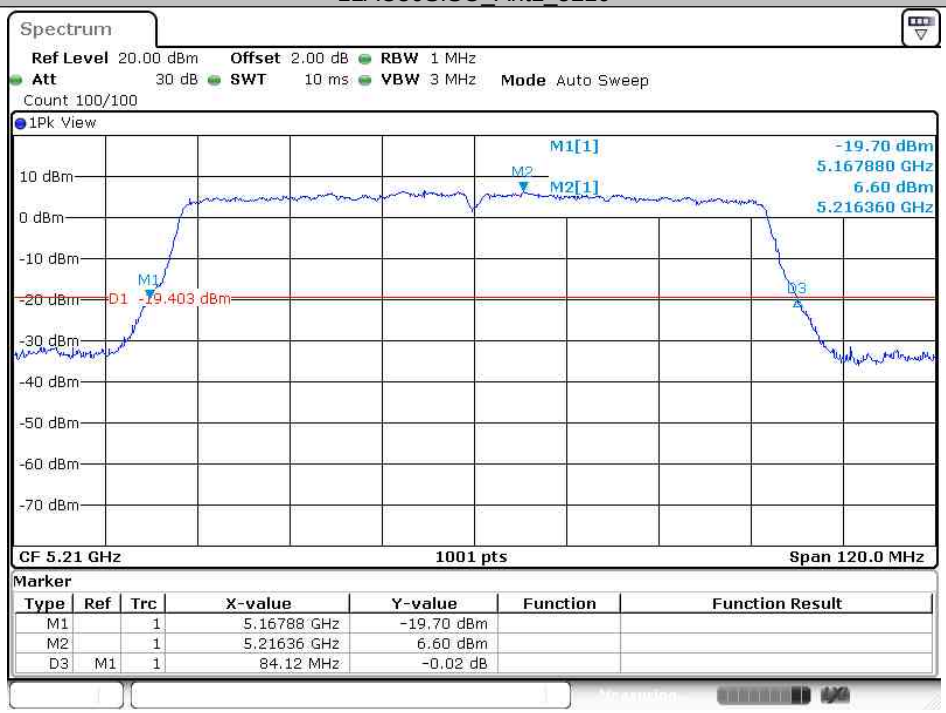

Date: 4.DEC.2020 15:20:46

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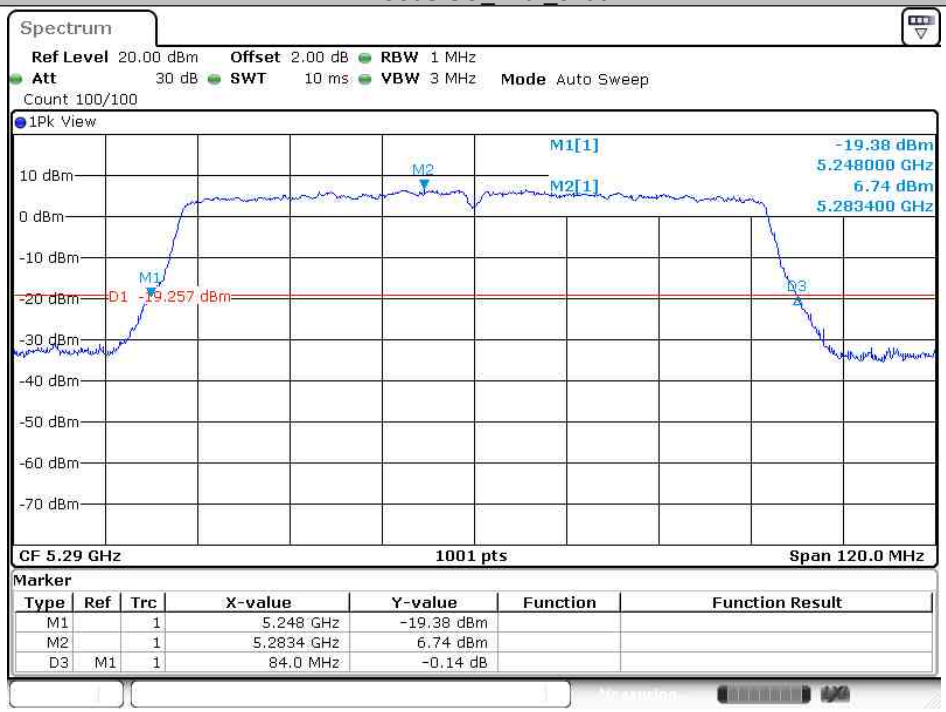
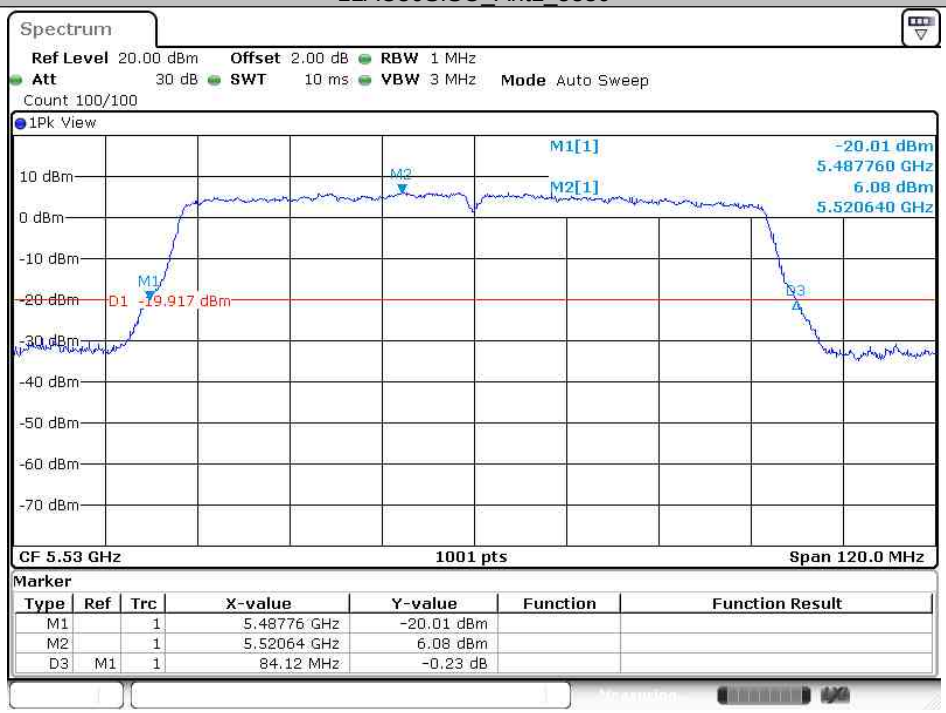
11AC80SISO_Ant1_5290



Date: 4.DEC.2020 15:23:47

11AC80SISO_Ant1_5530



Date: 4.DEC.2020 15:25:31

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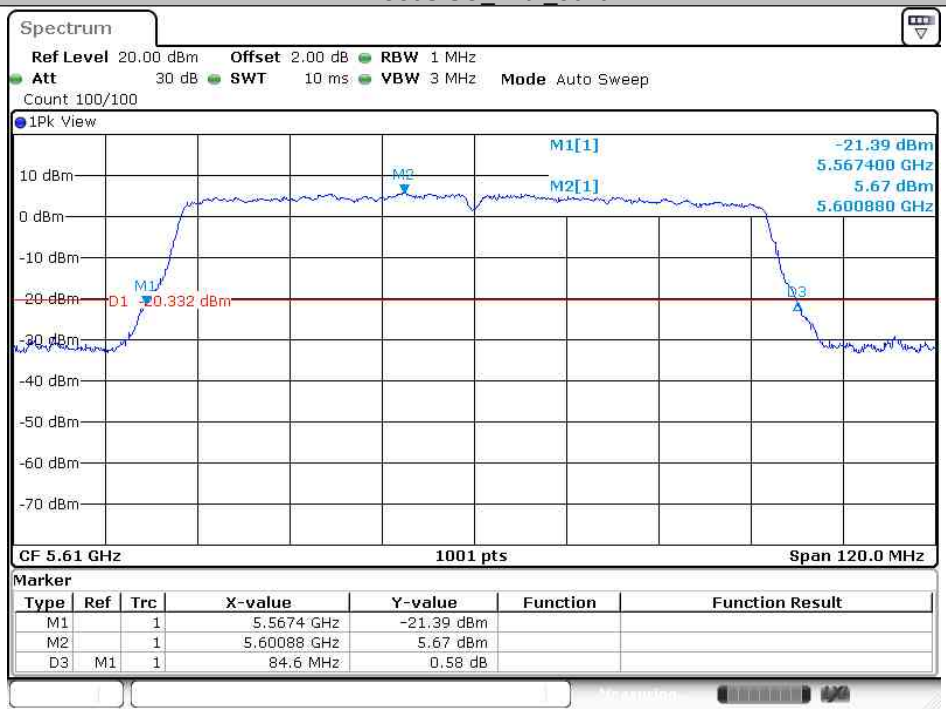
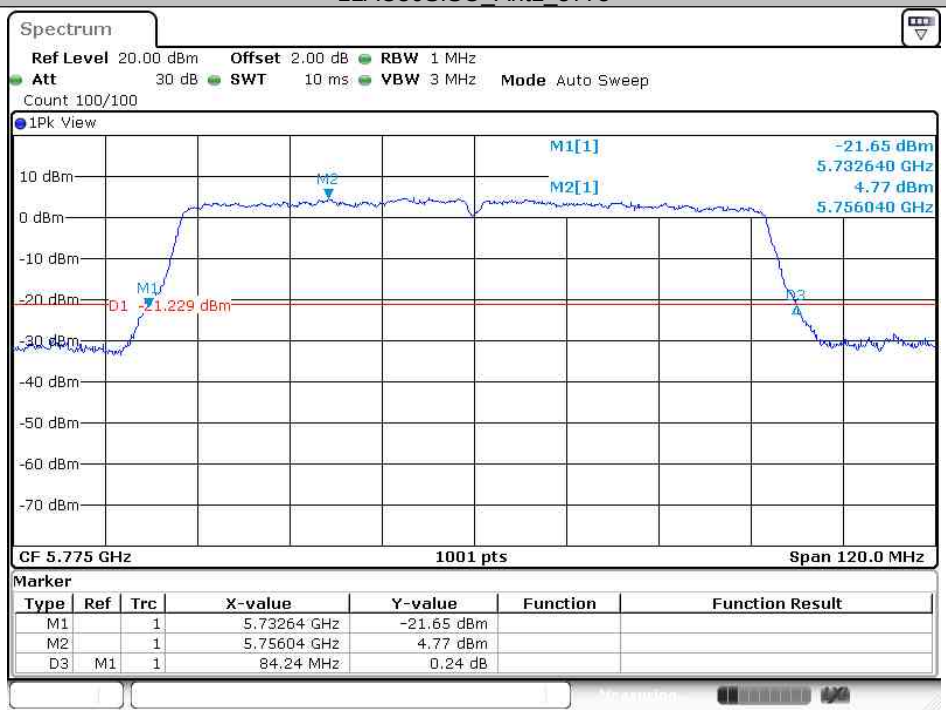
11AC80SISO_Ant1_5610



Date: 4.DEC.2020 15:29:30

11AC80SISO_Ant1_5775



Date: 4.DEC.2020 15:32:00

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Occupied channel bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.663	5171.608	5188.272	---	PASS
		5200	16.663	5191.608	5208.272	---	PASS
		5240	16.663	5231.638	5248.302	---	PASS
		5260	16.723	5251.608	5268.332	---	PASS
		5300	16.693	5291.608	5308.302	---	PASS
		5320	16.693	5311.608	5328.302	---	PASS
		5500	16.693	5491.608	5508.302	---	PASS
		5580	16.693	5571.608	5588.302	---	PASS
		5700	16.693	5691.608	5708.302	---	PASS
		5745	16.723	5736.578	5753.302	---	PASS
		5785	16.723	5776.608	5793.332	---	PASS
		5825	16.693	5816.608	5833.302	---	PASS
11N20SISO	Ant1	5180	17.892	5171.039	5188.931	---	PASS
		5200	17.922	5191.009	5208.931	---	PASS
		5240	17.922	5231.039	5248.961	---	PASS
		5260	17.922	5251.039	5268.961	---	PASS
		5300	17.922	5291.039	5308.961	---	PASS
		5320	17.892	5311.039	5328.931	---	PASS
		5500	17.892	5491.039	5508.931	---	PASS
		5580	17.922	5571.009	5588.931	---	PASS
		5700	17.892	5691.039	5708.931	---	PASS
		5745	17.892	5736.009	5753.901	---	PASS
		5785	17.892	5776.039	5793.931	---	PASS
		5825	17.892	5816.039	5833.931	---	PASS
11N40SISO	Ant1	5190	36.324	5171.838	5208.162	---	PASS
		5230	36.204	5211.898	5248.102	---	PASS
		5270	36.264	5251.898	5288.162	---	PASS
		5310	36.204	5291.898	5328.102	---	PASS

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		5510	36.204	5491.898	5528.102	---	PASS
		5550	36.264	5531.838	5568.102	---	PASS
		5670	36.264	5651.838	5688.102	---	PASS
		5755	36.384	5736.778	5773.162	---	PASS
		5795	36.324	5776.838	5813.162	---	PASS
11AC20SISO	Ant1	5180	17.892	5171.039	5188.931	---	PASS
		5200	17.922	5191.009	5208.931	---	PASS
		5240	17.892	5231.039	5248.931	---	PASS
		5260	17.922	5251.039	5268.961	---	PASS
		5300	17.922	5291.039	5308.961	---	PASS
		5320	17.892	5311.039	5328.931	---	PASS
		5500	17.892	5491.039	5508.931	---	PASS
		5580	17.922	5571.009	5588.931	---	PASS
		5700	17.922	5691.009	5708.931	---	PASS
		5745	17.922	5736.009	5753.931	---	PASS
		5785	17.922	5776.009	5793.931	---	PASS
		5825	17.892	5816.039	5833.931	---	PASS
11AC40SISO	Ant1	5190	36.324	5171.838	5208.162	---	PASS
		5230	36.324	5211.838	5248.162	---	PASS
		5270	36.324	5251.838	5288.162	---	PASS
		5310	36.324	5291.838	5328.162	---	PASS
		5510	36.324	5491.838	5528.162	---	PASS
		5550	36.324	5531.778	5568.102	---	PASS
		5670	36.324	5651.838	5688.162	---	PASS
		5755	36.324	5736.778	5773.102	---	PASS
		5795	36.324	5776.838	5813.162	---	PASS
11AC80SISO	Ant1	5210	75.764	5172.118	5247.882	---	PASS
		5290	75.764	5252.118	5327.882	---	PASS
		5530	75.644	5492.118	5567.762	---	PASS
		5610	75.764	5571.998	5647.762	---	PASS
		5775	75.764	5736.998	5812.762	---	PASS

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