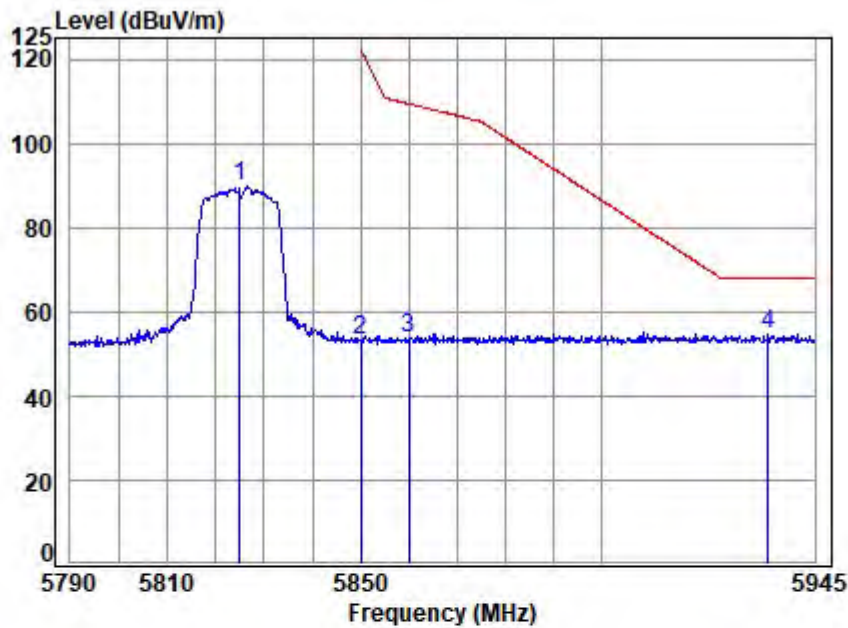


Test Mode: 12; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High

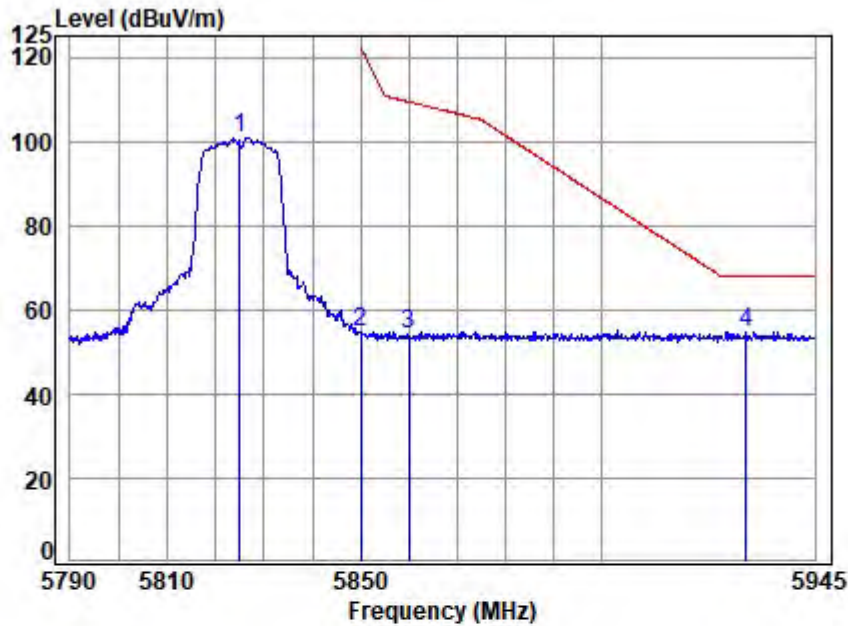


Site : chamber
Condition: 3m HORIZONTAL
Job No : 04130AT
Mode : 5825 Band edge
: 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	8.05	34.35	34.98	82.39	89.81	-----	-----	peak
2	5850.000	8.07	34.40	34.97	45.53	53.03	122.20	-69.17	peak
3	5860.000	8.07	34.44	34.96	46.22	53.77	109.40	-55.63	peak
4 q	5935.114	8.13	34.67	34.93	46.70	54.57	68.20	-13.63	peak



Test Mode: 12; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High

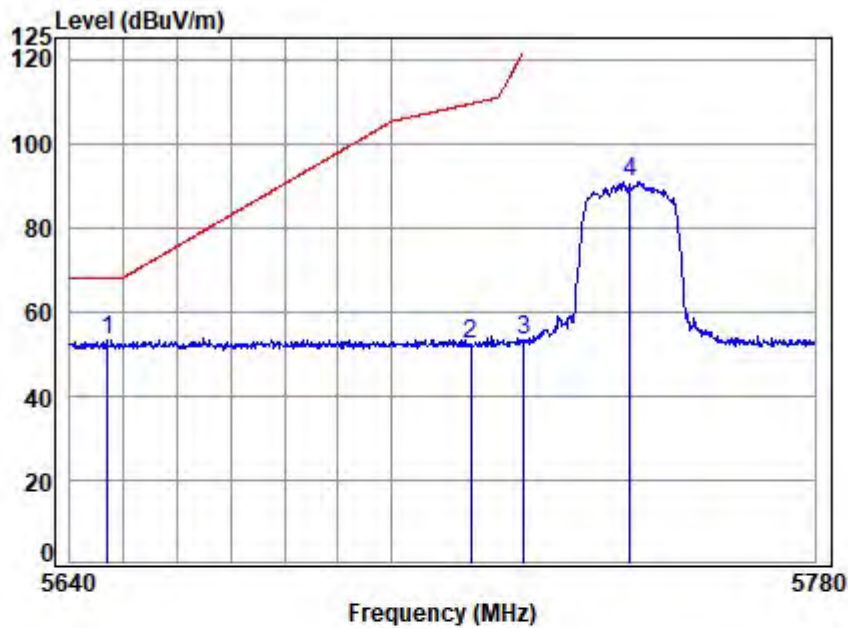


Site : chamber
Condition: 3m VERTICAL
Job No : 04130AT
Mode : 5825 Band edge
: 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	8.05	34.35	34.98	93.51	100.93	-----	-----	peak
2	5850.000	8.07	34.40	34.97	47.12	54.62	122.20	-67.58	peak
3	5860.000	8.07	34.44	34.96	46.55	54.10	109.40	-55.30	peak
4 q	5930.568	8.12	34.66	34.93	47.03	54.88	68.20	-13.32	peak



Test Mode: 12; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

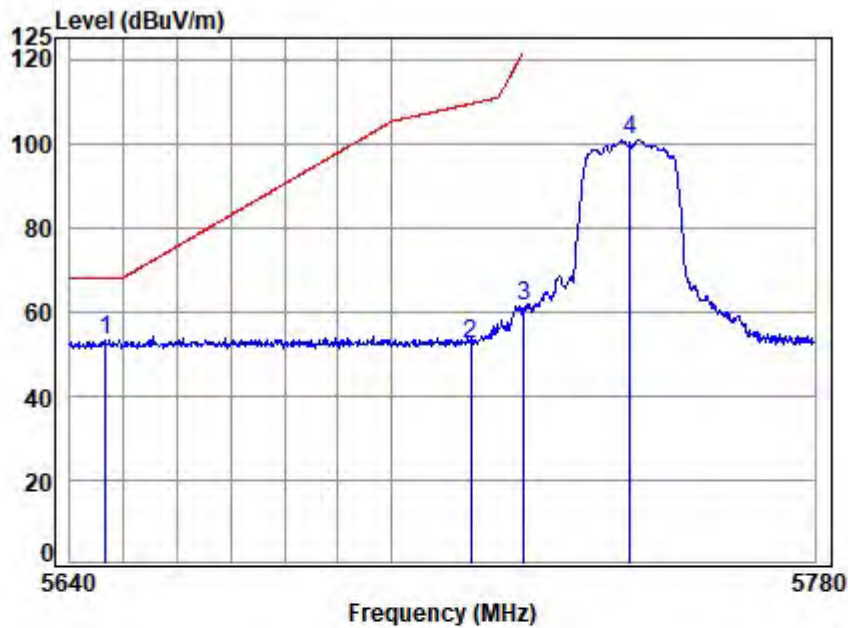


Site : chamber
Condition: 3m HORIZONTAL
Job No : 04130AT
Mode : 5745 Band edge
: 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	5646.919	7.92	34.42	35.06	45.88	53.16	68.20	-15.04	peak
2	5715.000	7.97	34.27	35.03	44.89	52.10	109.40	-57.30	peak
3	5725.000	7.98	34.25	35.03	45.97	53.17	122.20	-69.03	peak
4	5745.000	7.99	34.21	35.02	83.53	90.71	-----	-----	peak



Test Mode: 12; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

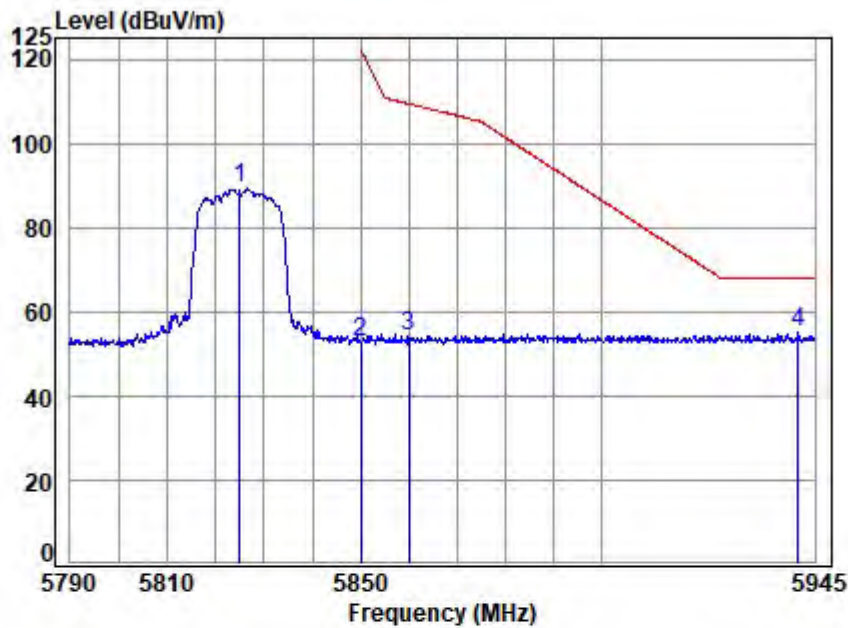


Site : chamber
Condition: 3m VERTICAL
Job No : 04130AT
Mode : 5745 Band edge
: 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	5646.642	7.92	34.42	35.06	46.15	53.43	68.20	-14.77	peak
2	5715.000	7.97	34.27	35.03	45.07	52.28	109.40	-57.12	peak
3	5725.000	7.98	34.25	35.03	53.89	61.09	122.20	-61.11	peak
4	5745.000	7.99	34.21	35.02	93.52	100.70	-----	-----	peak



Test Mode: 12; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High

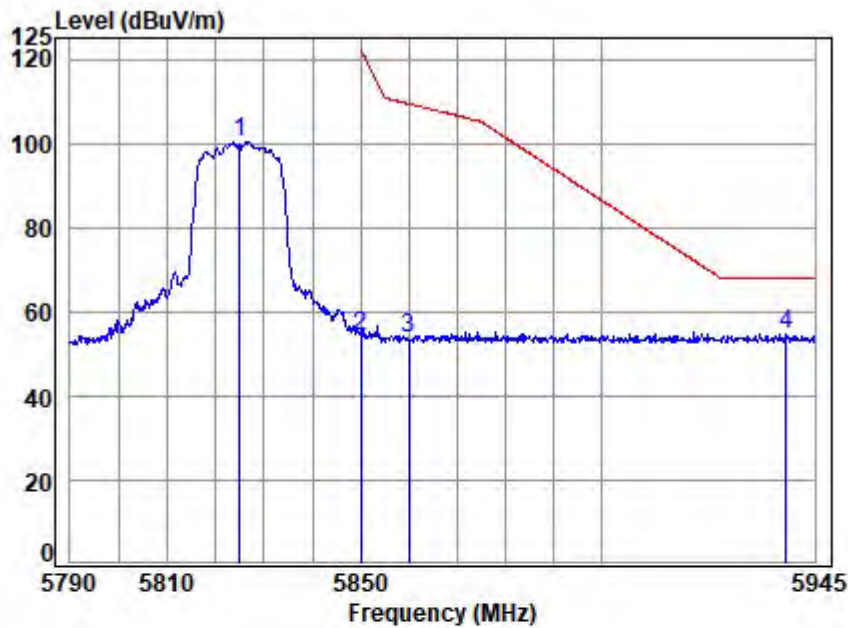


Site : chamber
Condition: 3m HORIZONTAL
Job No : 04130AT
Mode : 5825 Band edge
: 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	8.05	34.35	34.98	81.91	89.33	-----	-----	peak
2	5850.000	8.07	34.40	34.97	45.25	52.75	122.20	-69.45	peak
3	5860.000	8.07	34.44	34.96	46.40	53.95	109.40	-55.45	peak
4 q	5941.546	8.13	34.68	34.93	47.02	54.90	68.20	-13.30	peak



Test Mode: 12; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High

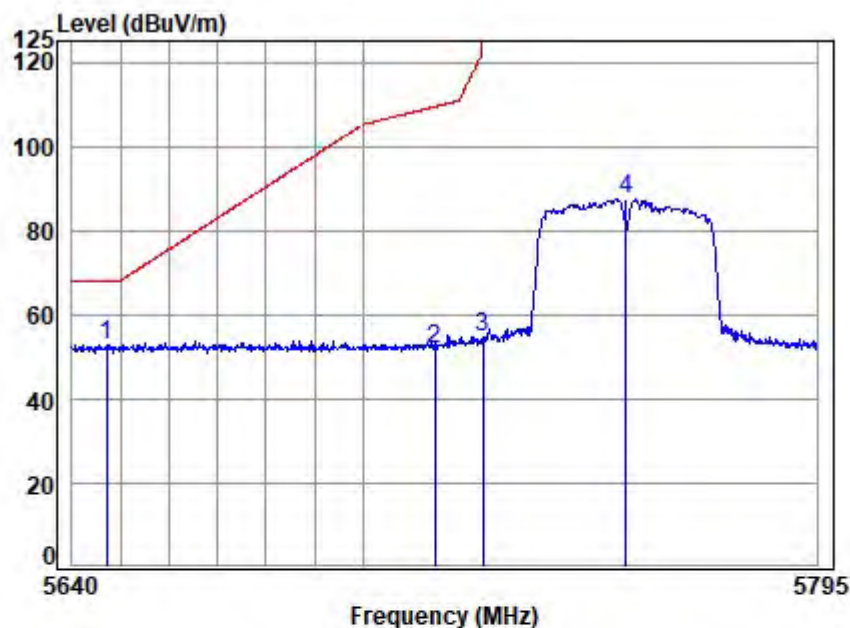


Site : chamber
Condition: 3m VERTICAL
Job No : 04130AT
Mode : 5825 Band edge
: 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	8.05	34.35	34.98	92.84	100.26	-----	-----	peak
2	5850.000	8.07	34.40	34.97	46.87	54.37	122.20	-67.83	peak
3	5860.000	8.07	34.44	34.96	46.01	53.56	109.40	-55.84	peak
4 q	5939.035	8.13	34.68	34.93	46.97	54.85	68.20	-13.35	peak



Test Mode: 12; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04130AT
Mode : 5755 Band edge
: 5G WIFI 11N40

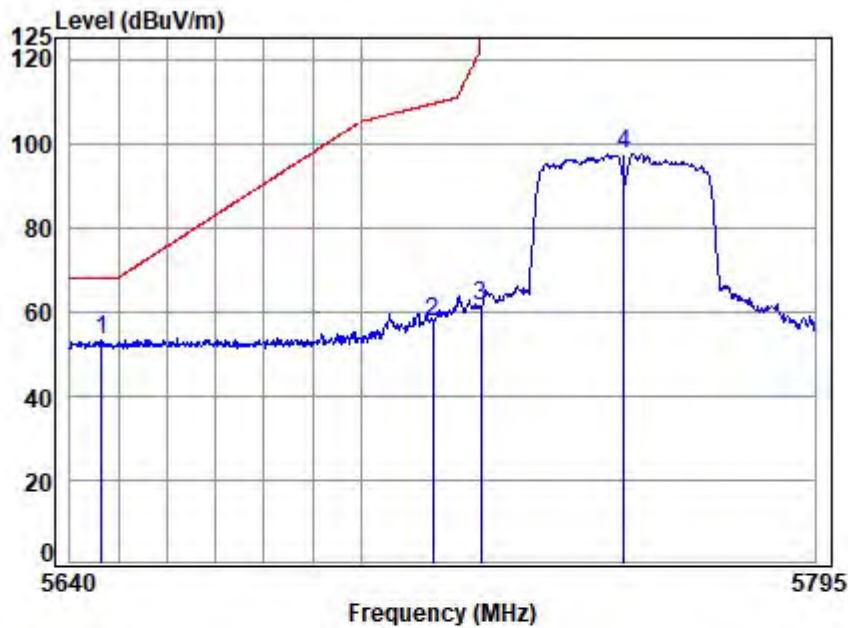
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	5647.038	7.92	34.42	35.06	45.56	52.84	68.20	-15.36	peak
2	5715.000	7.97	34.27	35.03	44.67	51.88	109.40	-57.52	peak
3	5725.000	7.98	34.25	35.03	47.50	54.70	122.20	-67.50	peak
4	5755.000	8.00	34.21	35.01	80.18	87.38	-----	-----	peak



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Test Mode: 12; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 04130AT
Mode : 5755 Band edge
: 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	5646.579	7.92	34.42	35.06	45.75	53.03	68.20	-15.17	peak
2	5715.000	7.97	34.27	35.03	50.31	57.52	109.40	-51.88	peak
3	5725.000	7.98	34.25	35.03	54.19	61.39	122.20	-60.81	peak
4	5755.000	8.00	34.21	35.01	90.18	97.38	-----	-----	peak

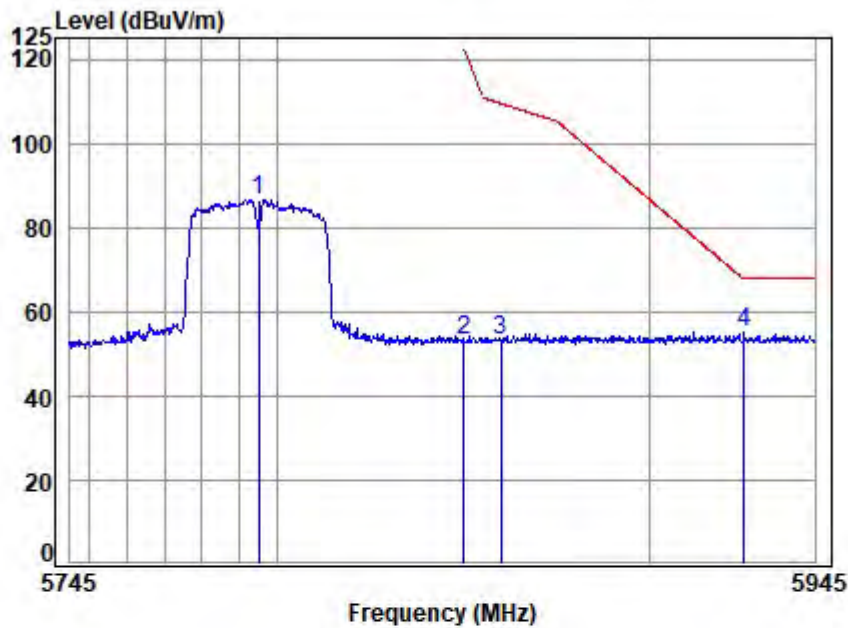


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Test Mode: 12; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04130AT
Mode : 5795 Band edge
: 5G WIFI 11N40

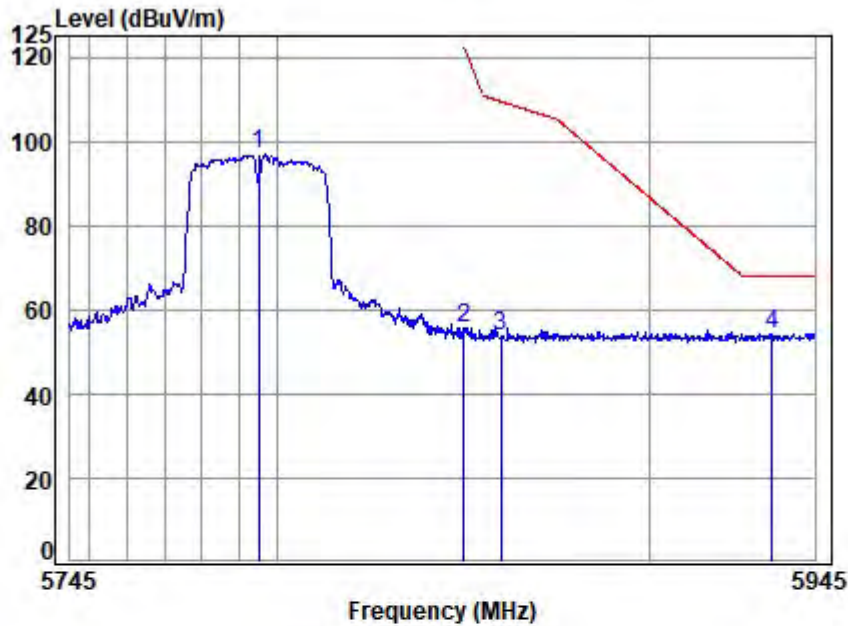
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	8.03	34.29	34.99	79.23	86.56	-----	-----	peak
2	5850.000	8.07	34.40	34.97	45.80	53.30	122.20	-68.90	peak
3	5860.000	8.07	34.44	34.96	45.64	53.19	109.40	-56.21	peak
4 q	5925.705	8.12	34.65	34.93	47.20	55.04	68.20	-13.16	peak



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Test Mode: 12; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 04130AT
Mode : 5795 Band edge
: 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	8.03	34.29	34.99	89.48	96.81	-----	-----	peak
2	5850.000	8.07	34.40	34.97	48.34	55.84	122.20	-66.36	peak
3	5860.000	8.07	34.44	34.96	46.18	53.73	109.40	-55.67	peak
4 q	5933.415	8.12	34.67	34.93	46.55	54.41	68.20	-13.79	peak



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413005

Page: 191 of 293

7.11 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart E 15.407 (g)
Test Method: ANSI C63.10 (2013) Section 6.8

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 47.3 % RH Atmospheric Pressure: 1000 mbar

7.11.2 Test Mode Description

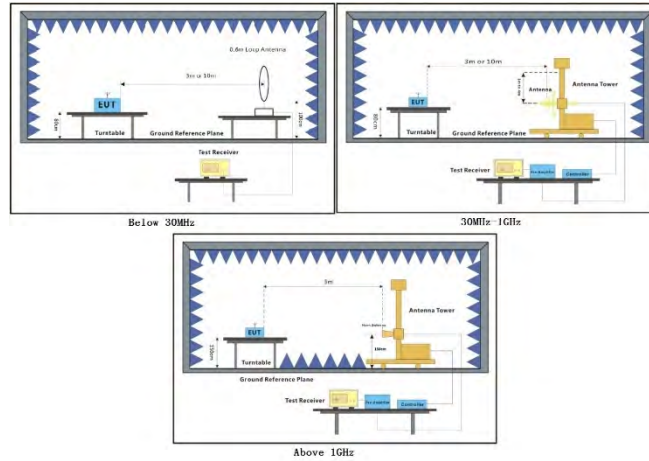
Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n 20/40, Only the data of worst case is recorded in the report.



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7.11.3 Test Setup Diagram



7.11.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.12 Non-occupancy period

Test Requirement KDB 905462 D02 Section 5.1
Test Method: KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required

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.

7.12.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 50.5 % RH Atmospheric Pressure: 1000 mbar



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413005

Page: 194 of 293

7.12.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	13	Normal operating_Keep the EUT communication with the companion device.

7.12.3 Test Setup Diagram



7.12.4 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413005

Page: 196 of 293

7.13 Channel Move Time

Test Requirement KDB 905462 D02 Section 5.1
Test Method: KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required

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.

7.13.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 50.5 % RH Atmospheric Pressure: 1000 mbar



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413005

Page: 197 of 293

7.13.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	13	Normal operating_Keep the EUT communication with the companion device.

7.13.3 Test Setup Diagram



7.13.4 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details

7.14 Channel Closing Transmission Time

Test Requirement KDB 905462 D02 Section 5.1
Test Method: KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required

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.

7.14.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 50.5 % RH Atmospheric Pressure: 1000 mbar



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413005

Page: 200 of 293

7.14.2 Test Mode Description

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Final test	13	Normal operating_Keep the EUT communication with the companion device.

7.14.3 Test Setup Diagram



7.14.4 Measurement Procedure and Data

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- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details

8 Test Setup Photo

Refer to Setup Photo for SZCR2312004130AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2312004130AT

10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	0.245	0.269	91.08	0.41	0.07
		5200	0.246	0.269	91.45	0.39	0.07
		5240	0.246	0.269	91.45	0.39	0.04
		5260	0.246	0.269	91.45	0.39	0.04
		5300	0.245	0.269	91.08	0.41	0.03
		5320	0.246	0.269	91.45	0.39	0.04
		5500	0.246	0.269	91.45	0.39	0.04
		5580	0.246	0.270	91.11	0.40	0.07
		5700	0.244	0.269	90.71	0.42	0.04
		5745	0.245	0.269	91.08	0.41	0.03
		5785	0.245	0.269	91.08	0.41	0.04
		5825	0.245	0.269	91.08	0.41	0.04
802.11n (HT20)	SISO	5180	0.261	0.284	91.90	0.37	0.04
		5200	0.262	0.284	92.25	0.35	0.07
		5240	0.261	0.284	91.90	0.37	0.07
		5260	0.262	0.284	92.25	0.35	0.04
		5300	0.262	0.284	92.25	0.35	0.07
		5320	0.261	0.284	91.90	0.37	0.07
		5500	0.261	0.284	91.90	0.37	0.04
		5580	0.261	0.284	91.90	0.37	0.04
		5700	0.261	0.284	91.90	0.37	0.07
		5745	0.261	0.284	91.90	0.37	0.07
		5785	0.260	0.284	91.55	0.38	0.04
		5825	0.262	0.284	92.25	0.35	0.04
802.11n (HT40)	SISO	5190	0.250	0.277	90.25	0.45	0.03
		5230	0.249	0.277	89.89	0.46	0.07
		5270	0.249	0.277	89.89	0.46	0.07
		5310	0.249	0.277	89.89	0.46	0.04

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413005

Page: 204 of 293

		5510	0.250	0.277	90.25	0.45	0.07
		5550	0.249	0.277	89.89	0.46	0.04
		5670	0.249	0.277	89.89	0.46	0.00
		5755	0.249	0.278	89.57	0.48	0.10
		5795	0.250	0.277	90.25	0.45	0.07



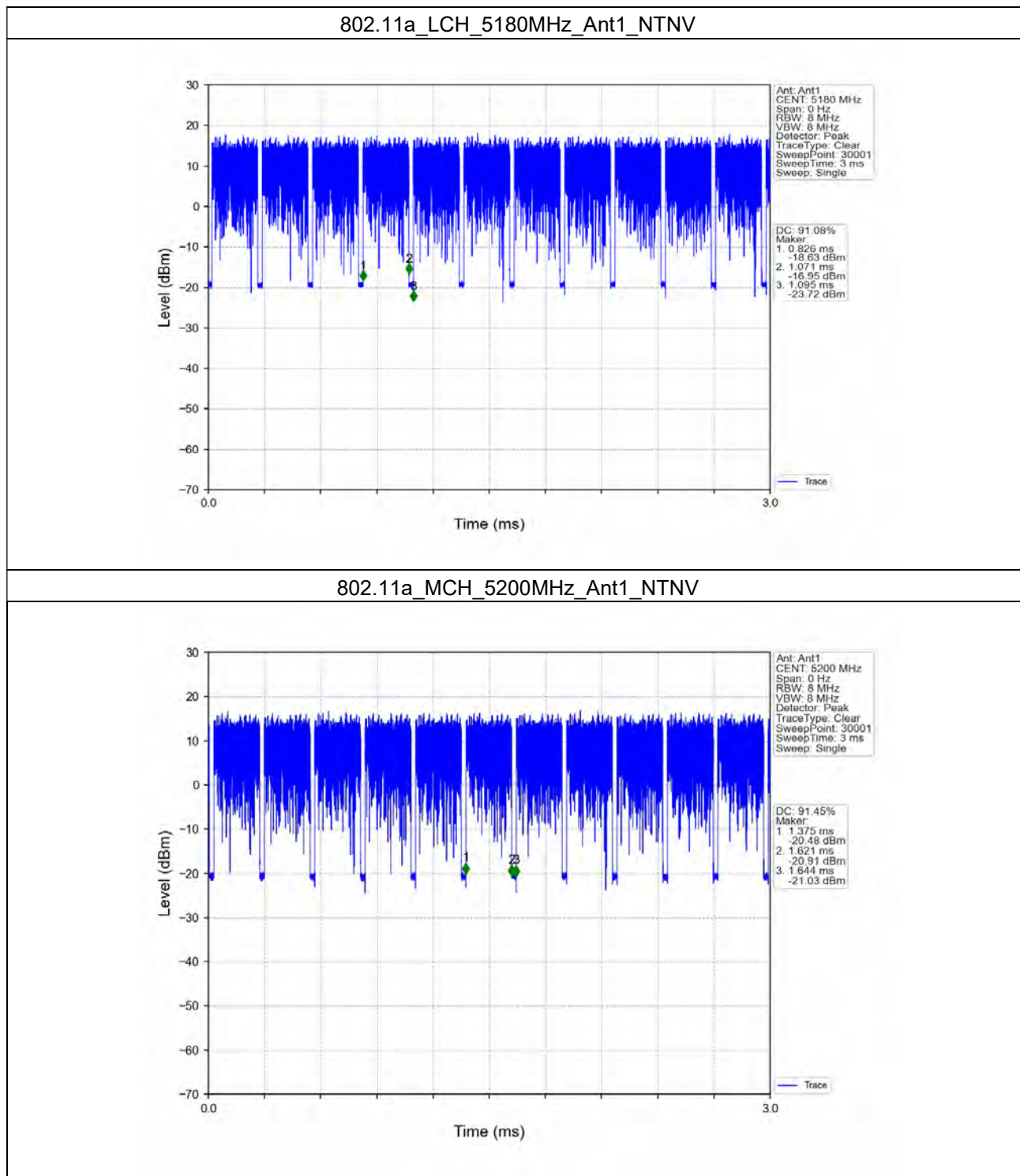
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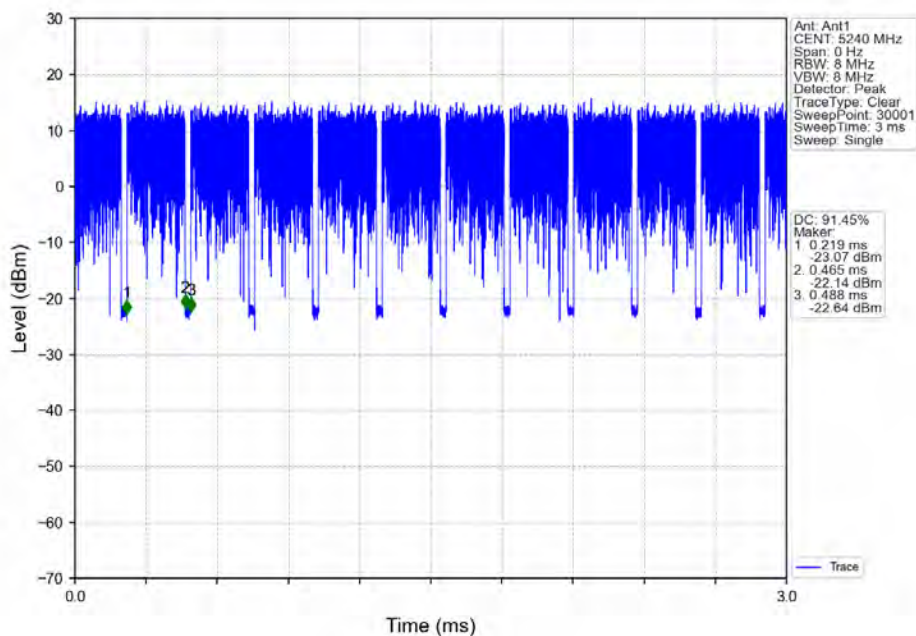
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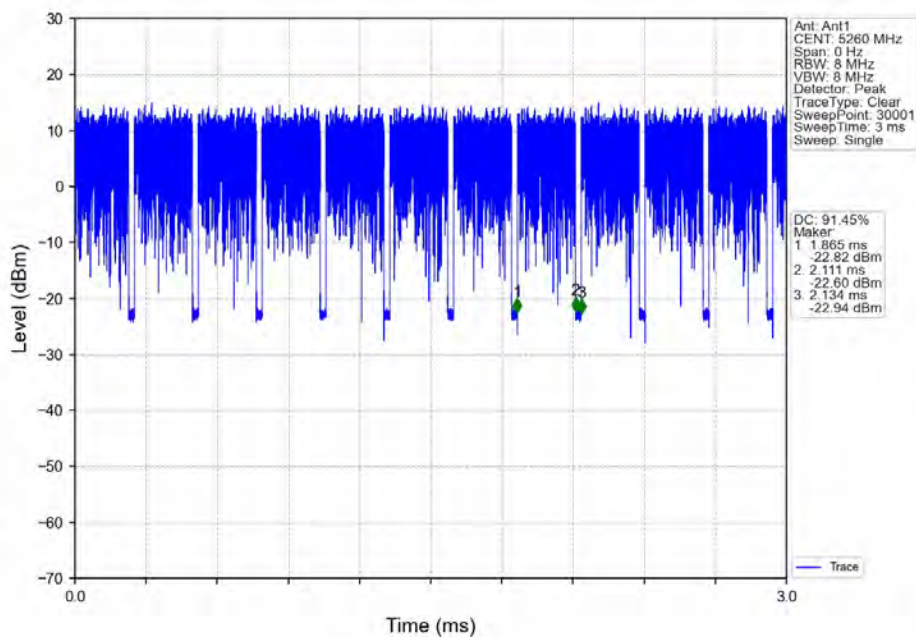
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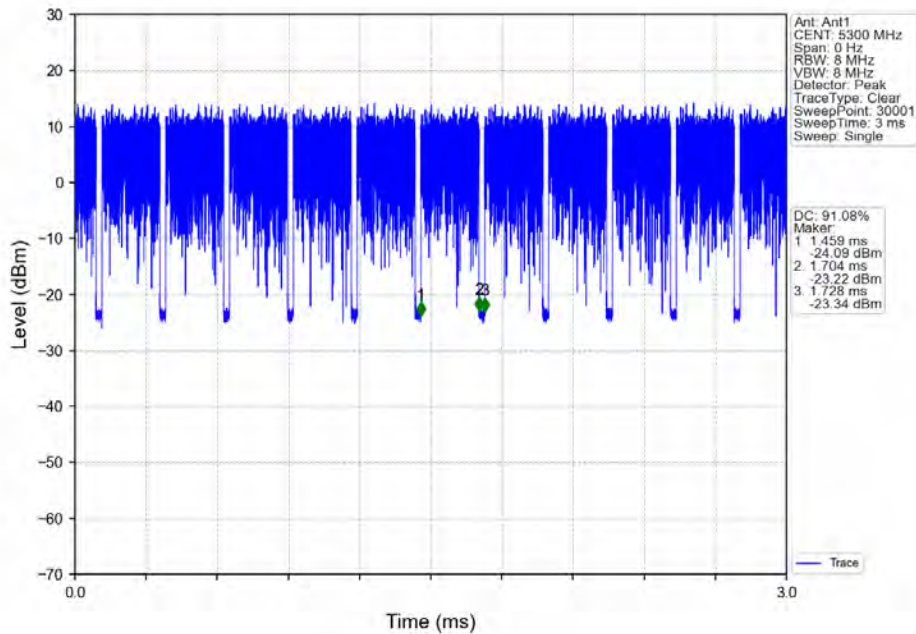
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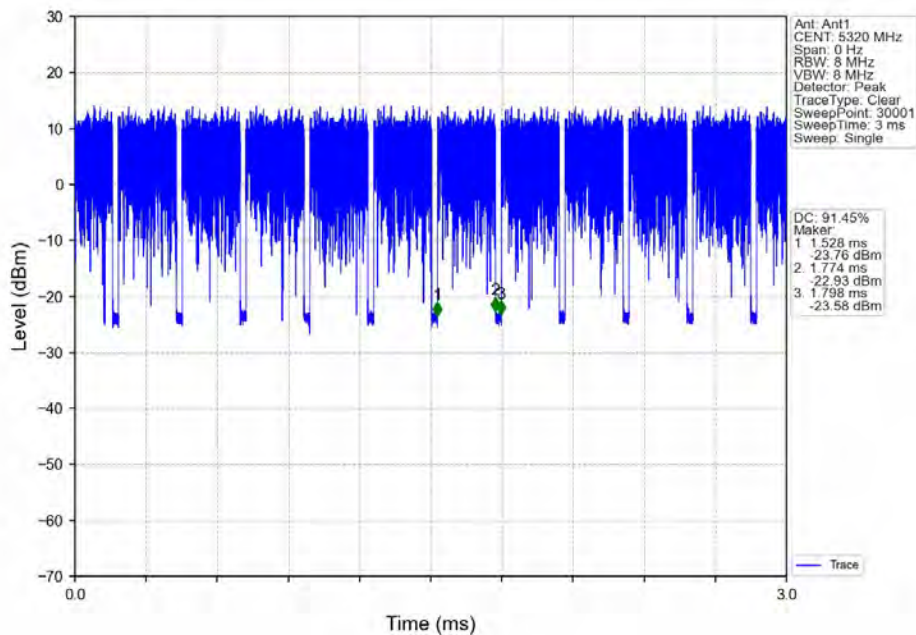
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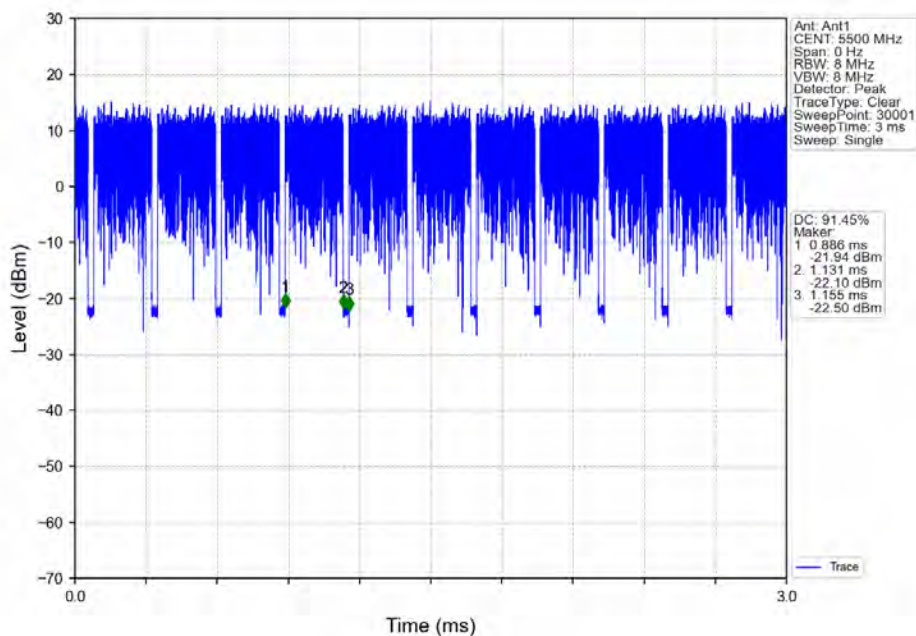
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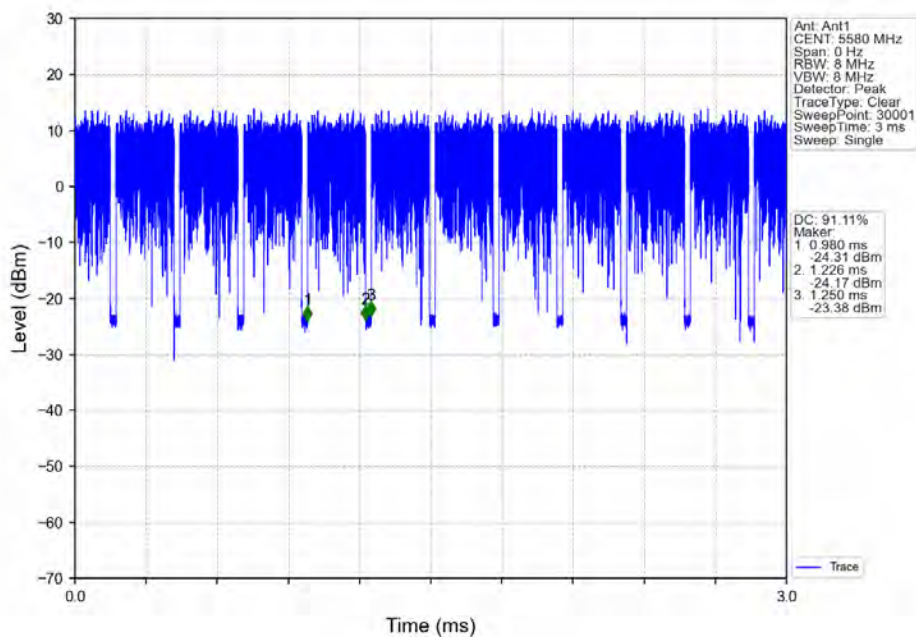
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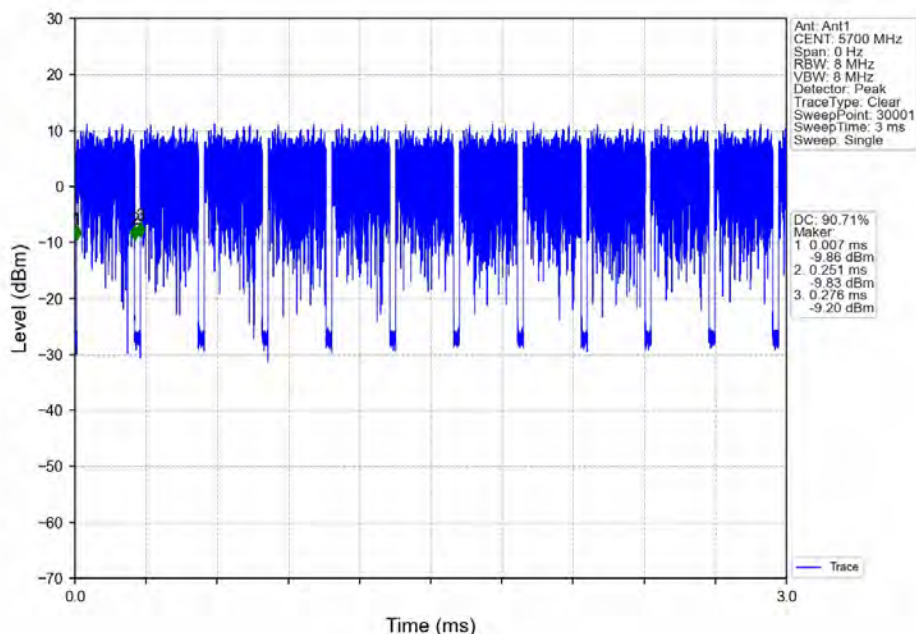
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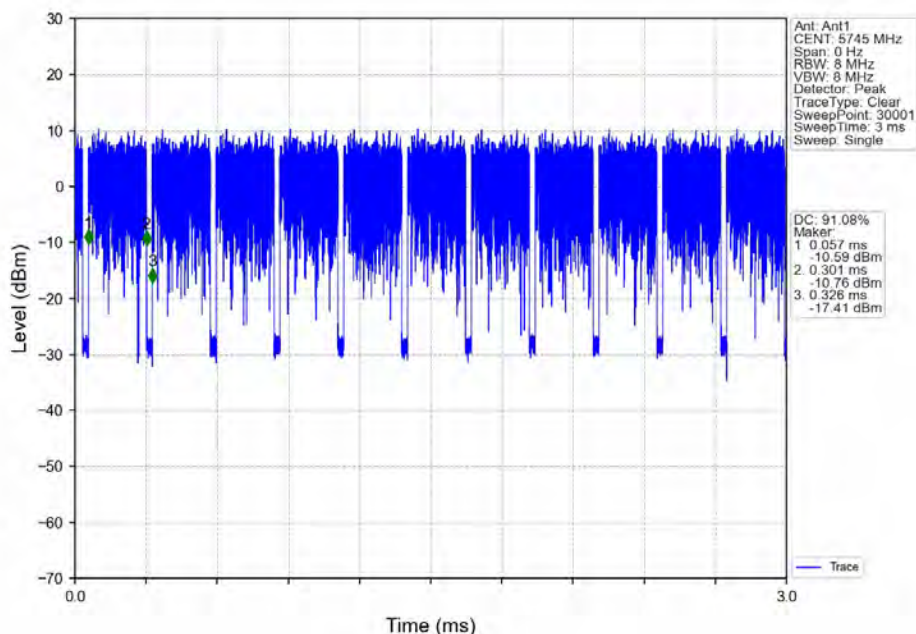
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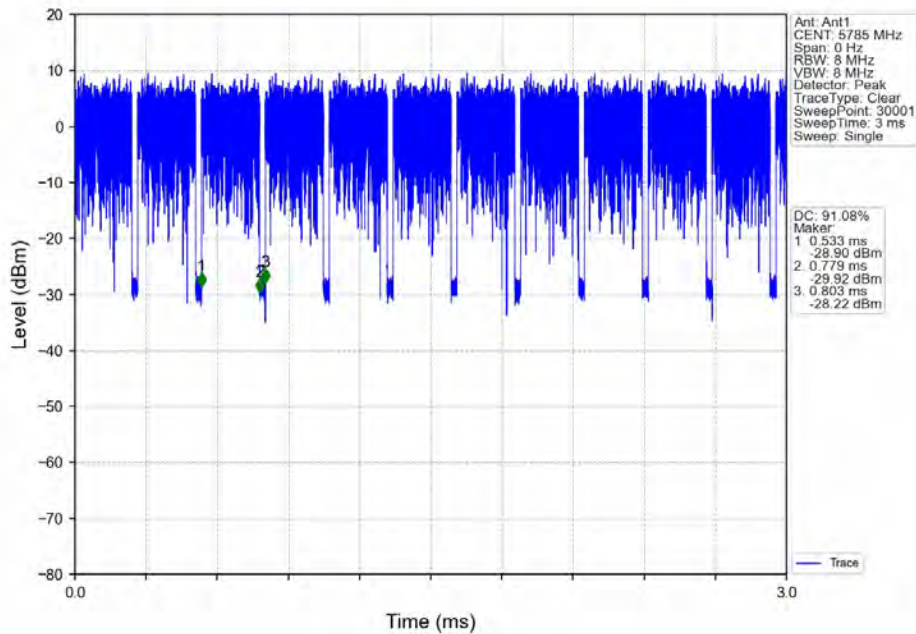
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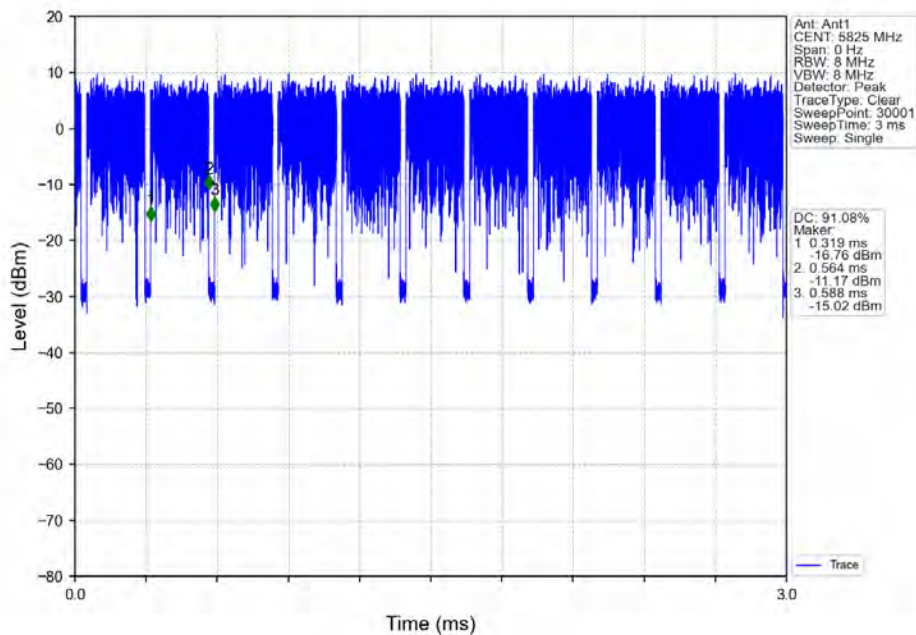
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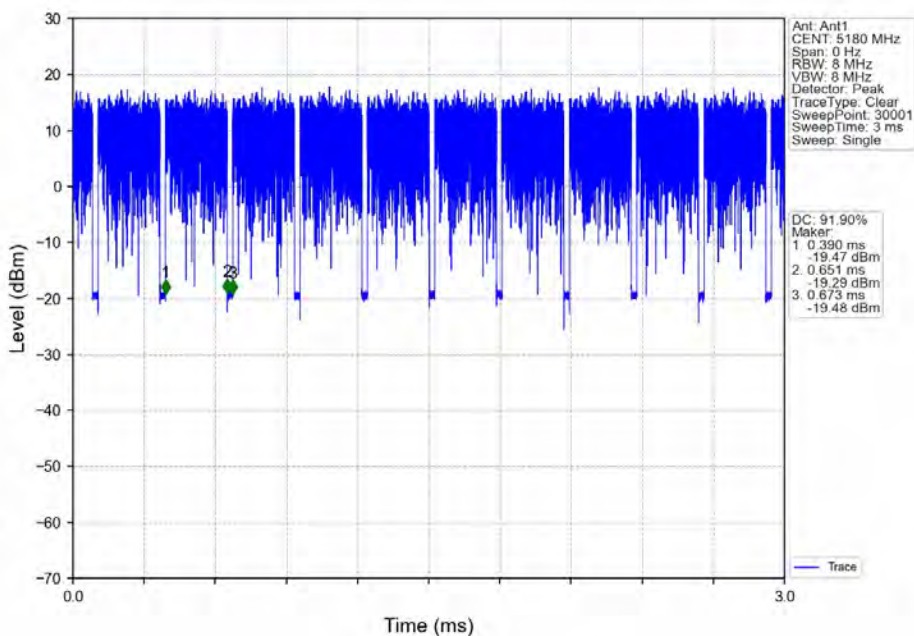
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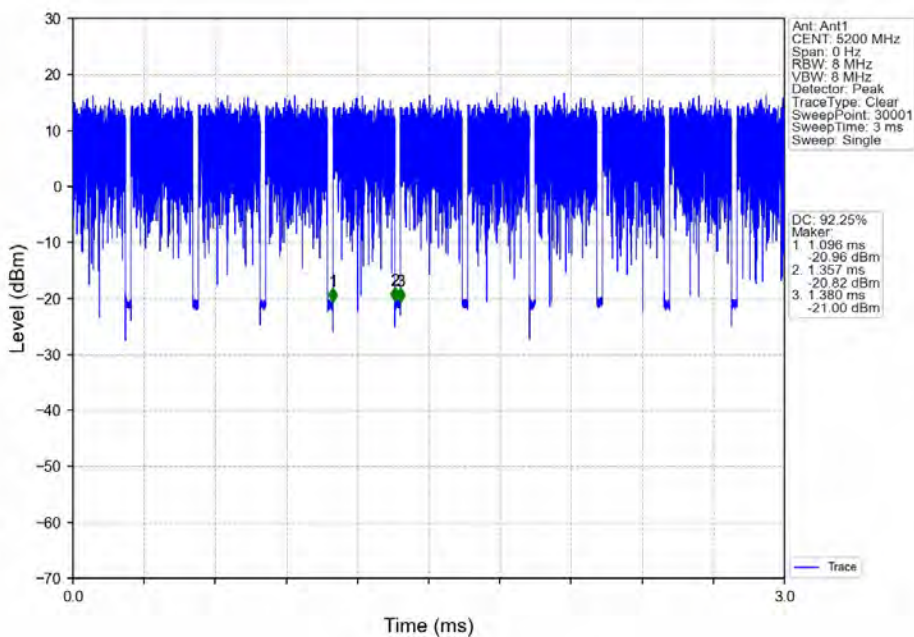
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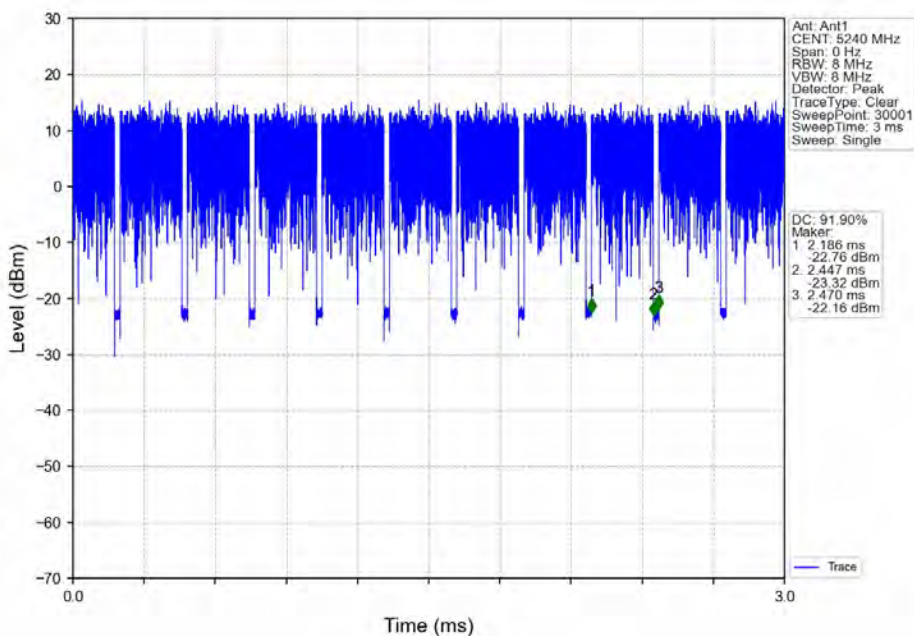
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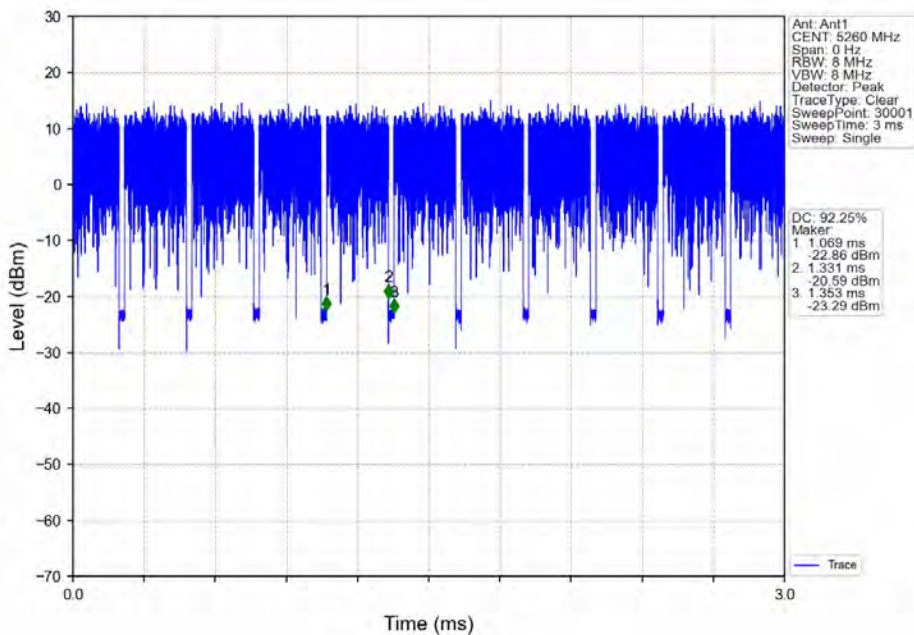
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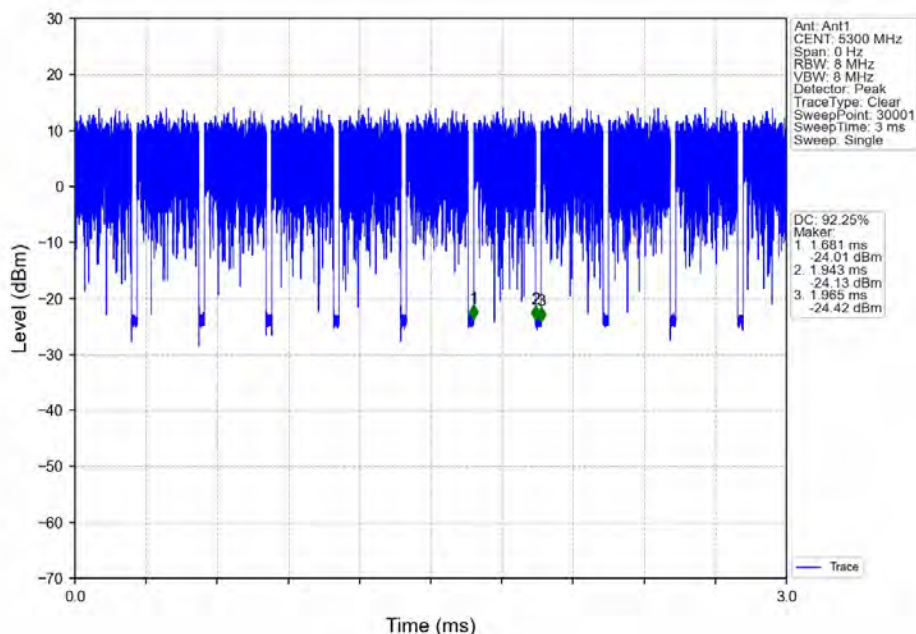
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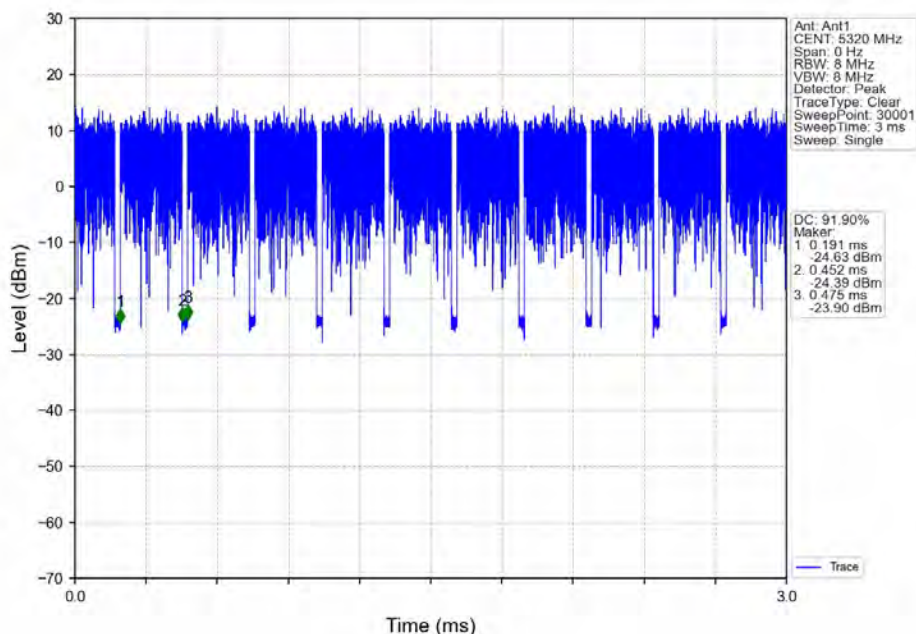
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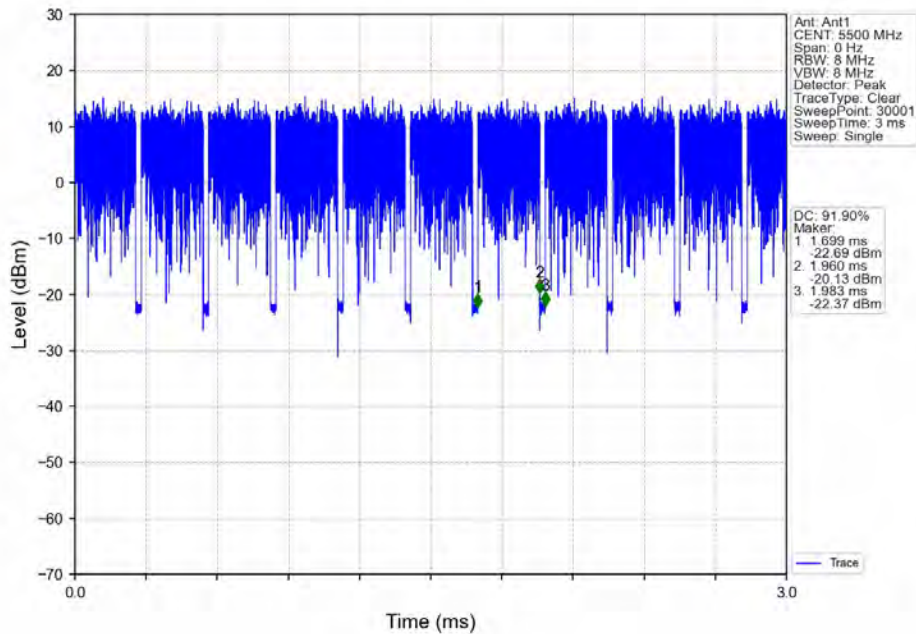
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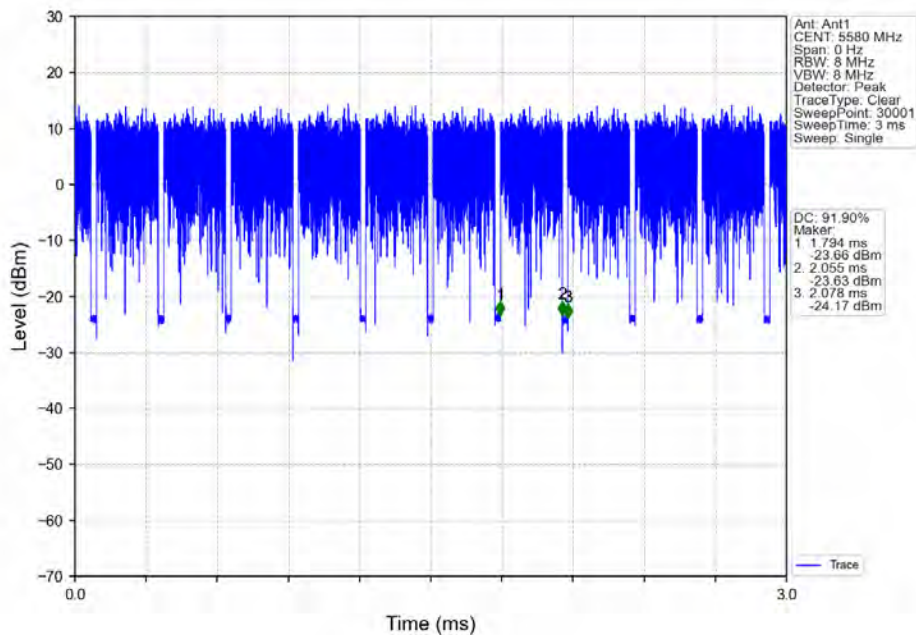
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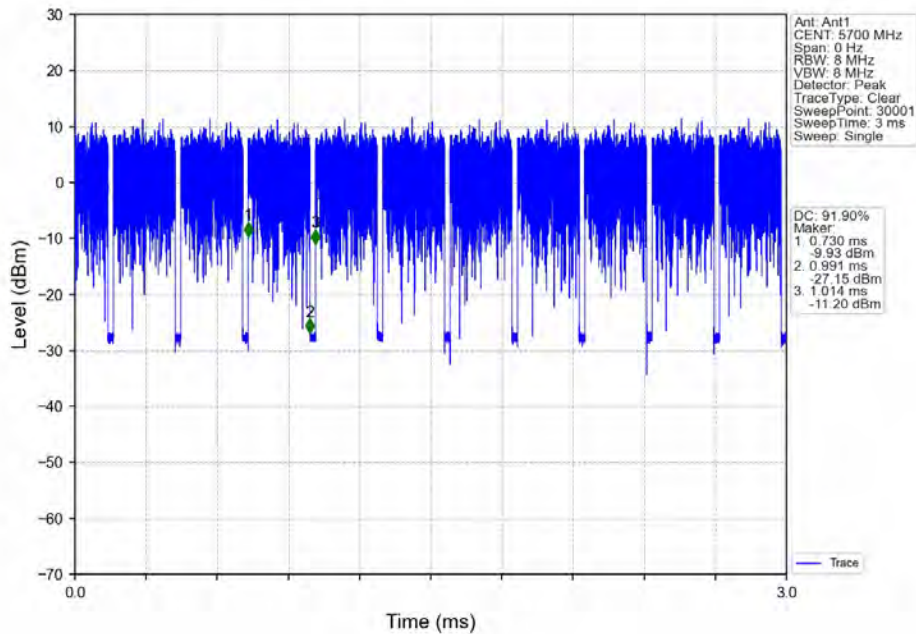
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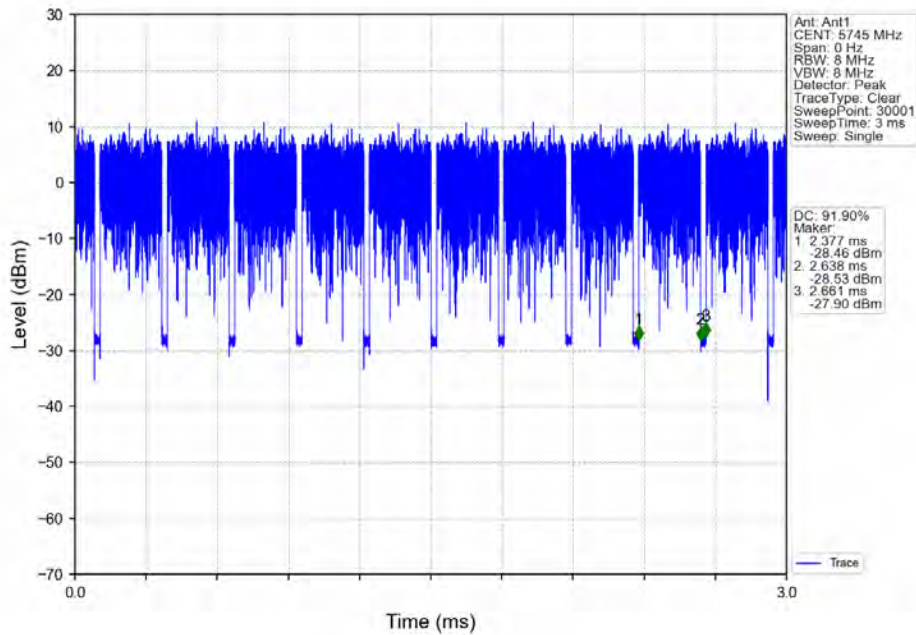
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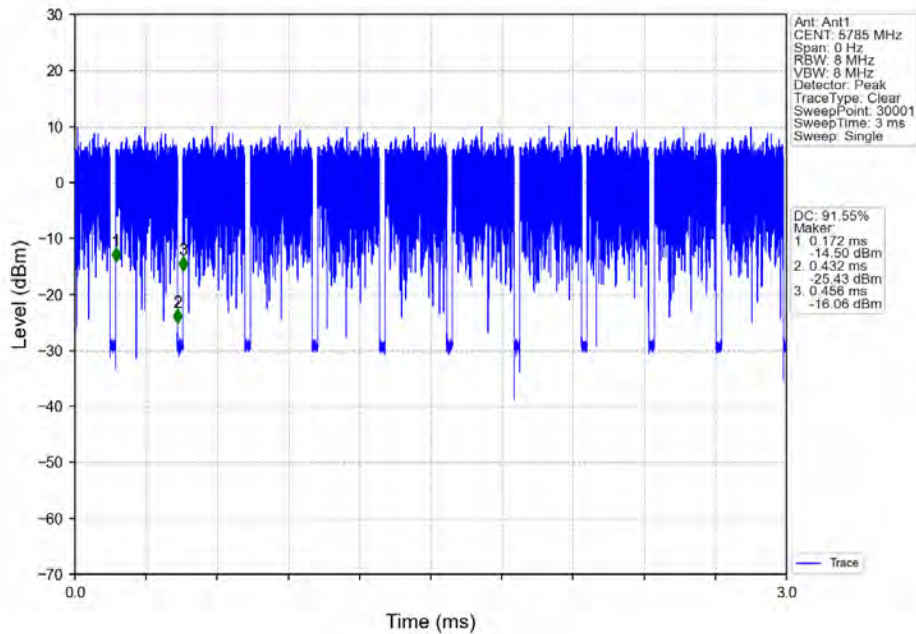
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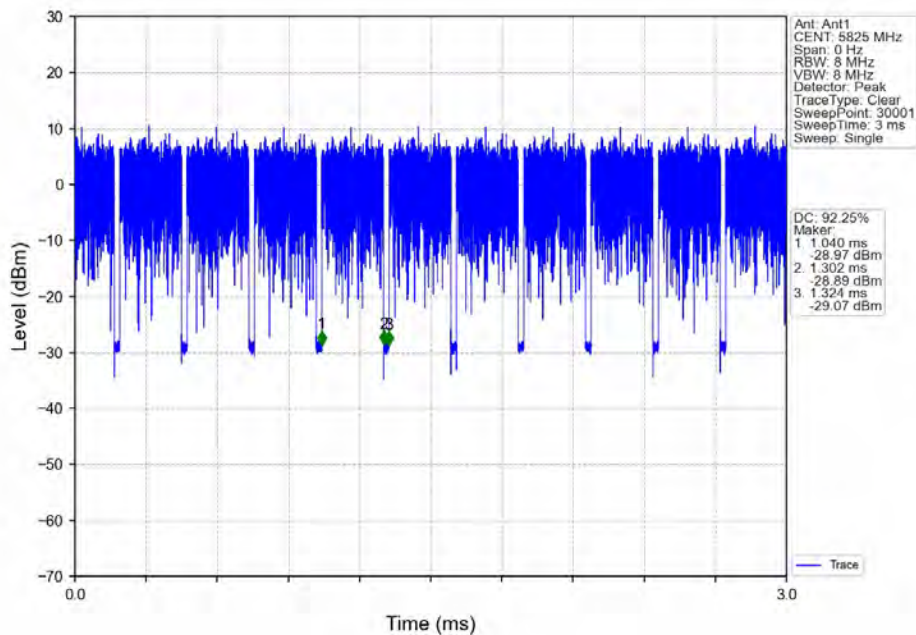
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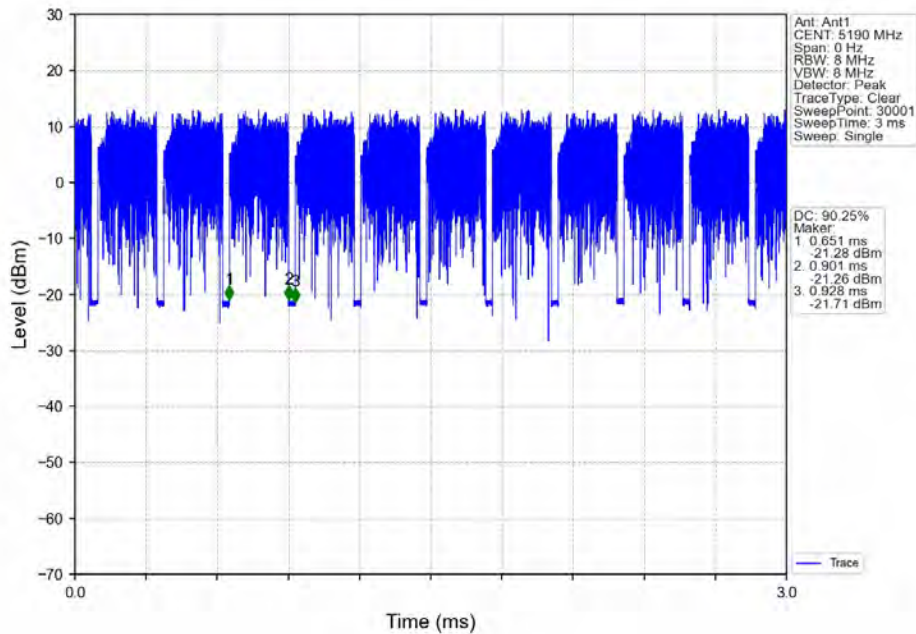
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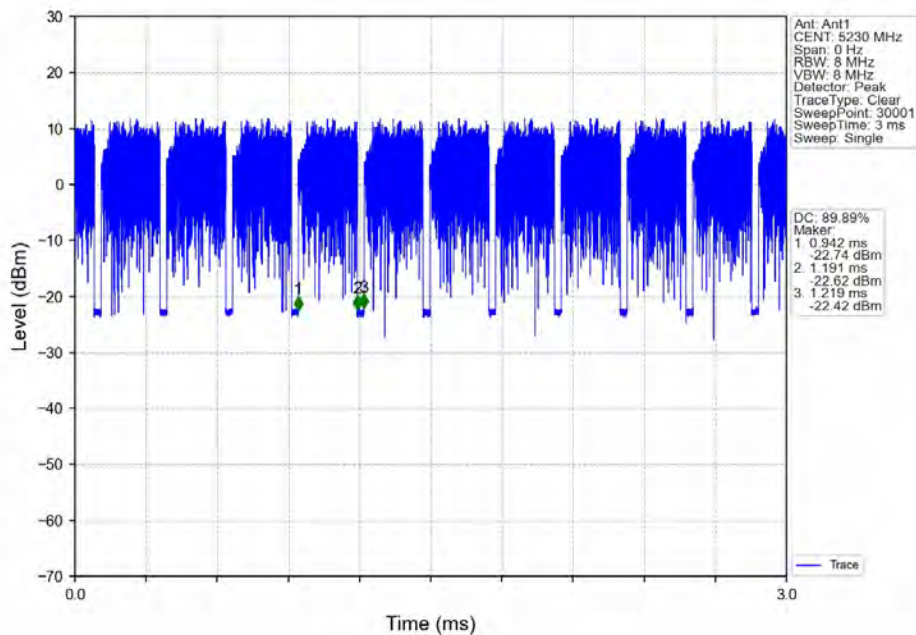
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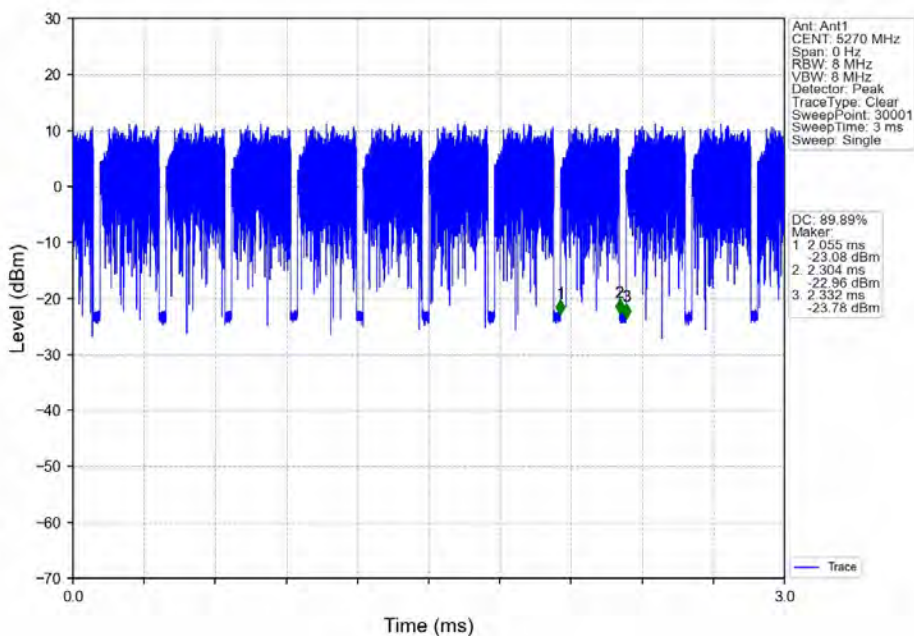
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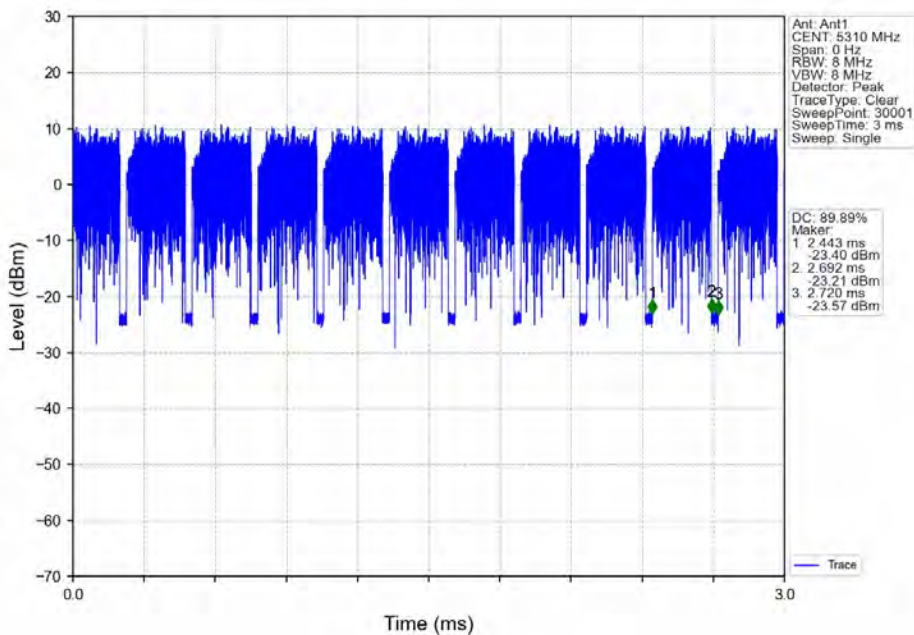
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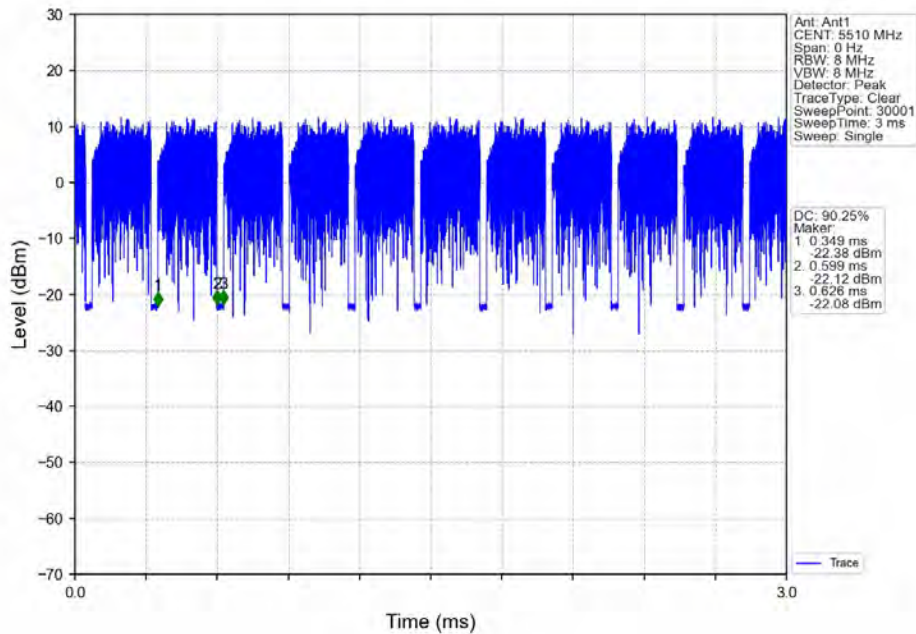
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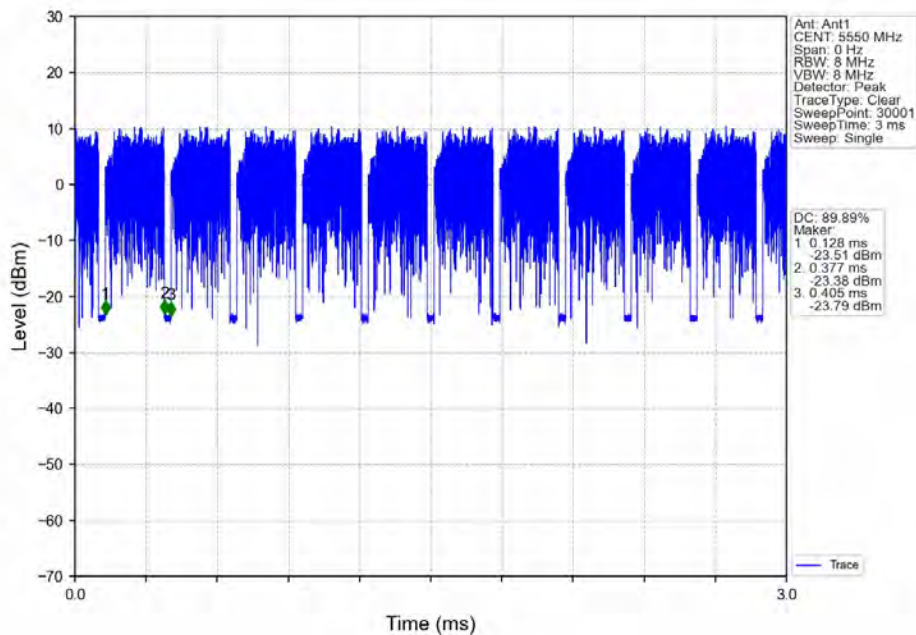
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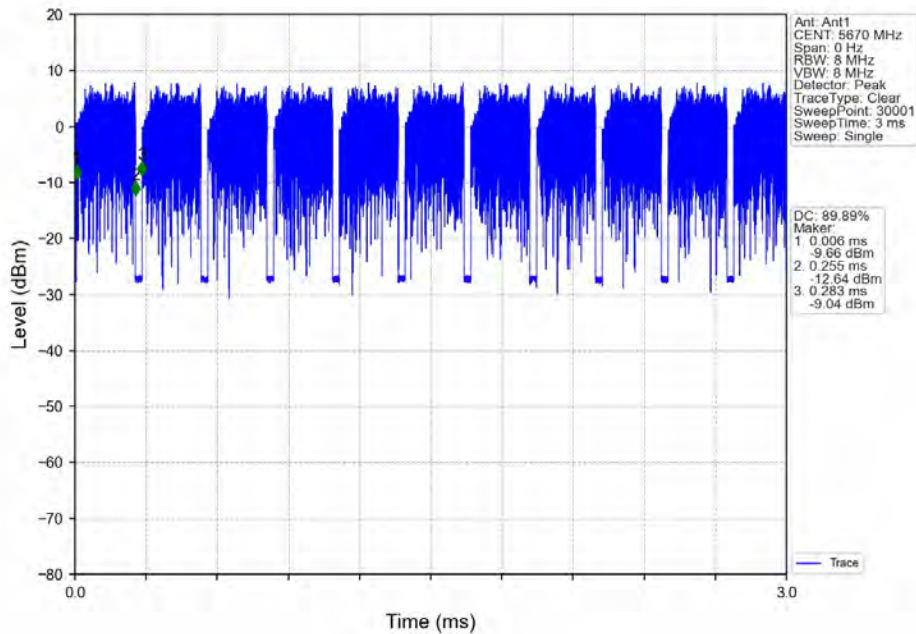
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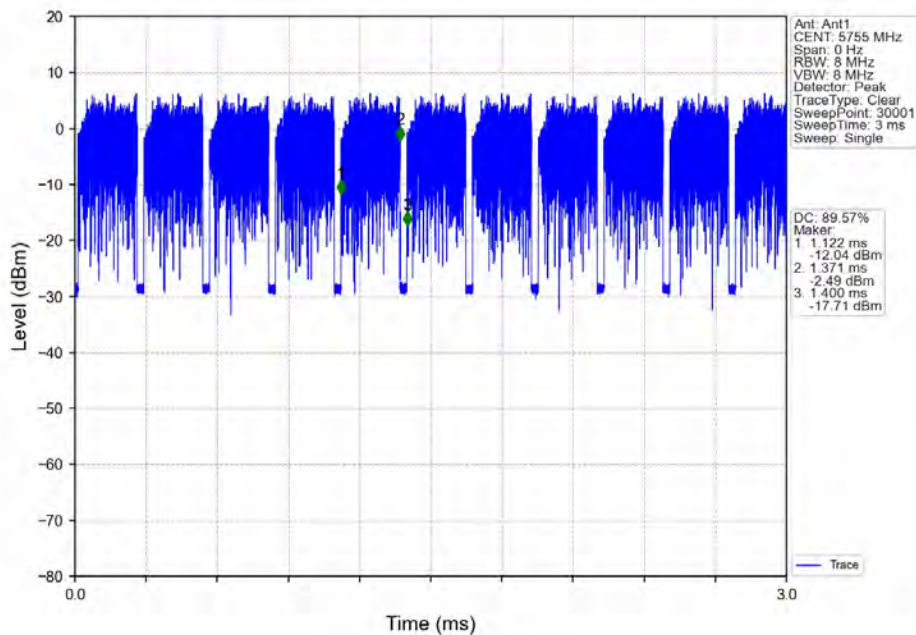
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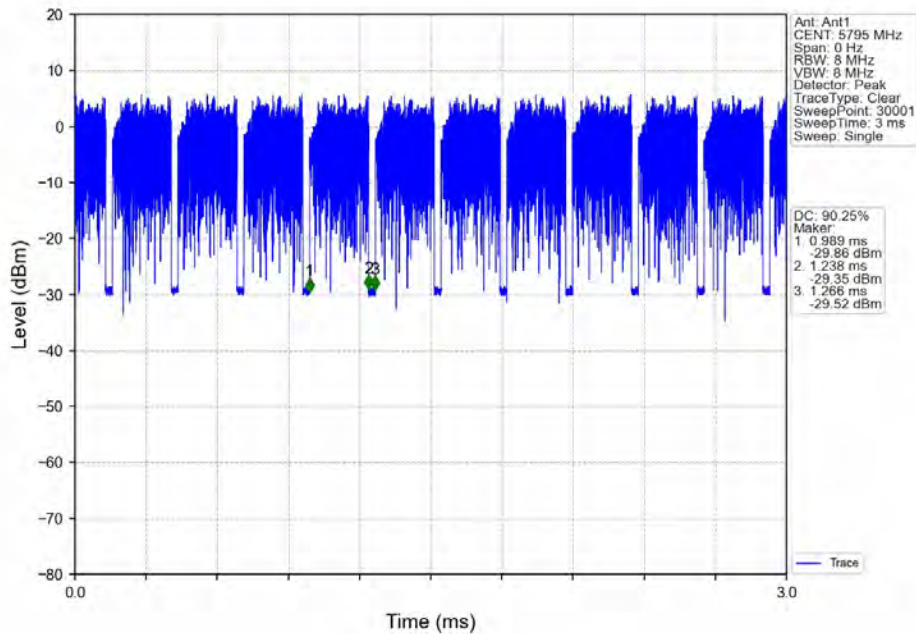
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Report No.: SZCR231200413005

Page: 221 of 293

802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	16.956	/	Pass
		5200	1	16.832	/	Pass
		5240	1	16.728	/	Pass
		5260	1	16.691	/	Pass
		5300	1	16.607	/	Pass
		5320	1	16.563	/	Pass
		5500	1	16.609	/	Pass
		5580	1	16.522	/	Pass
		5700	1	16.484	/	Pass
		5745	1	16.499	/	Pass
		5785	1	16.499	/	Pass
		5825	1	16.501	/	Pass
802.11n (HT20)	SISO	5180	1	18.025	/	Pass
		5200	1	17.977	/	Pass
		5240	1	17.989	/	Pass
		5260	1	17.945	/	Pass
		5300	1	17.941	/	Pass
		5320	1	17.912	/	Pass
		5500	1	17.944	/	Pass
		5580	1	17.899	/	Pass
		5700	1	17.848	/	Pass
		5745	1	17.872	/	Pass
		5785	1	17.885	/	Pass
		5825	1	17.885	/	Pass
802.11n (HT40)	SISO	5190	1	36.332	/	Pass
		5230	1	36.312	/	Pass
		5270	1	36.272	/	Pass
		5310	1	36.170	/	Pass
		5510	1	36.212	/	Pass
		5550	1	36.153	/	Pass
		5670	1	36.034	/	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413005

Page: 223 of 293

		5755	1	36.010	/	Pass
		5795	1	36.012	/	Pass

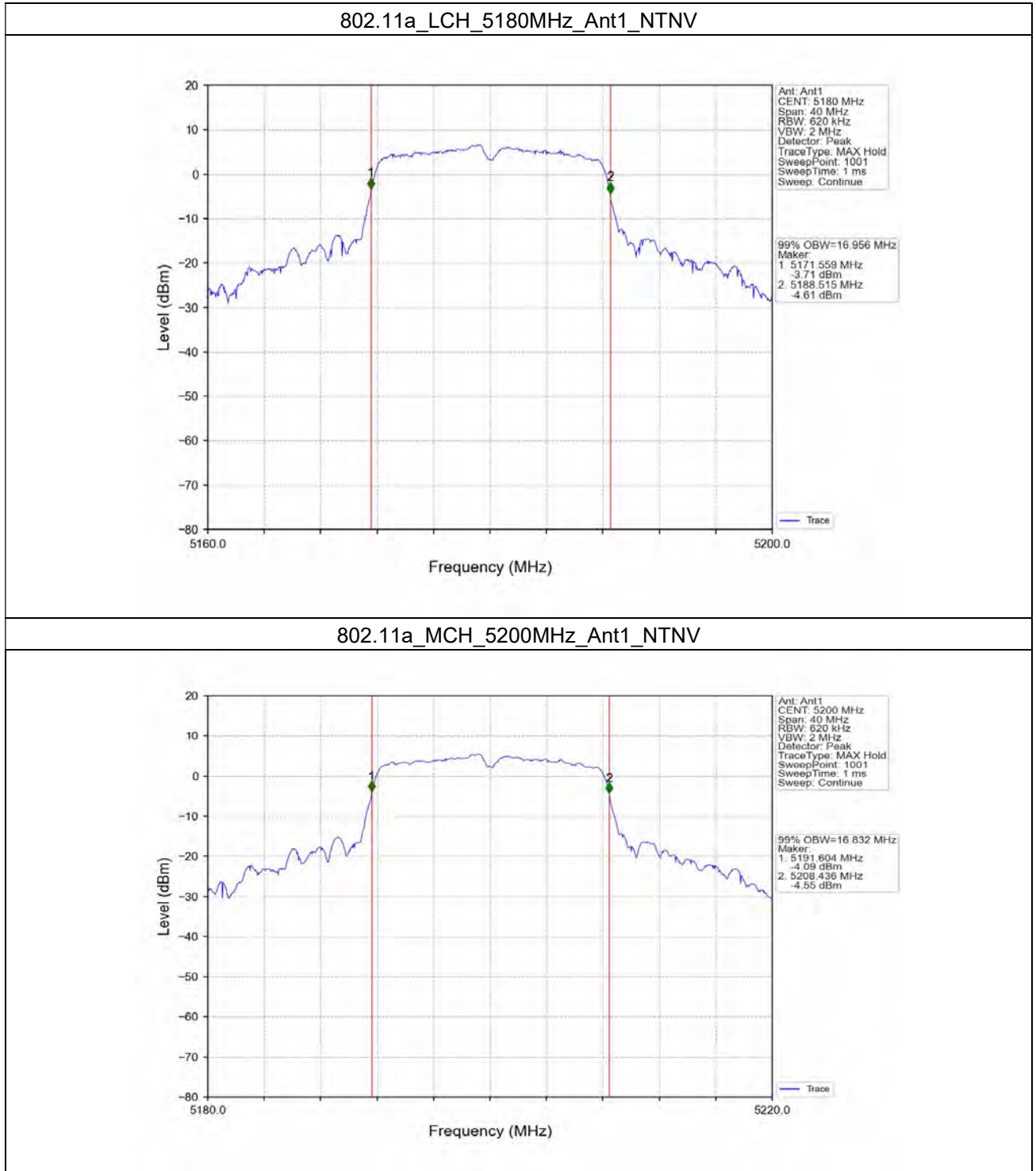


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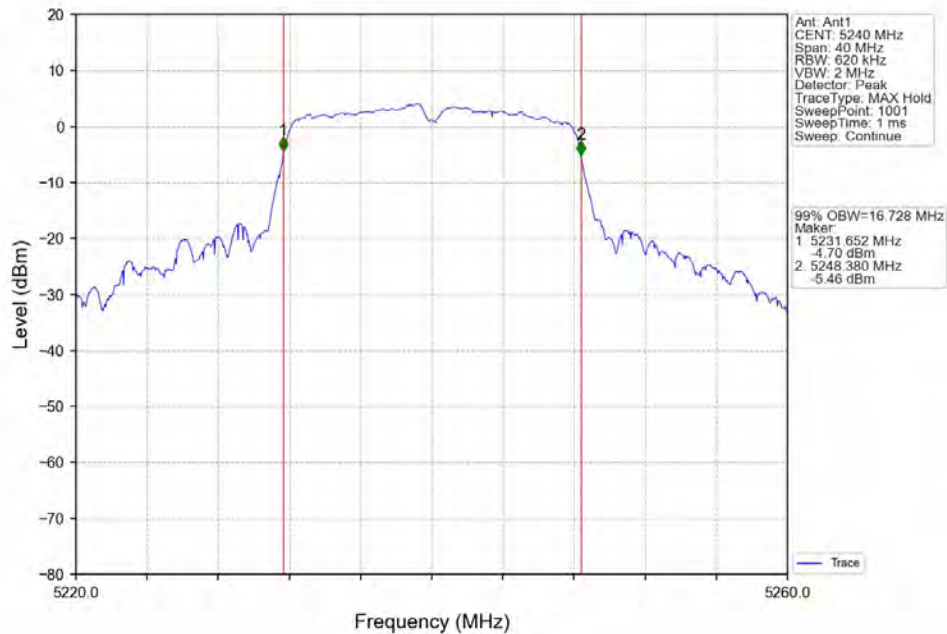
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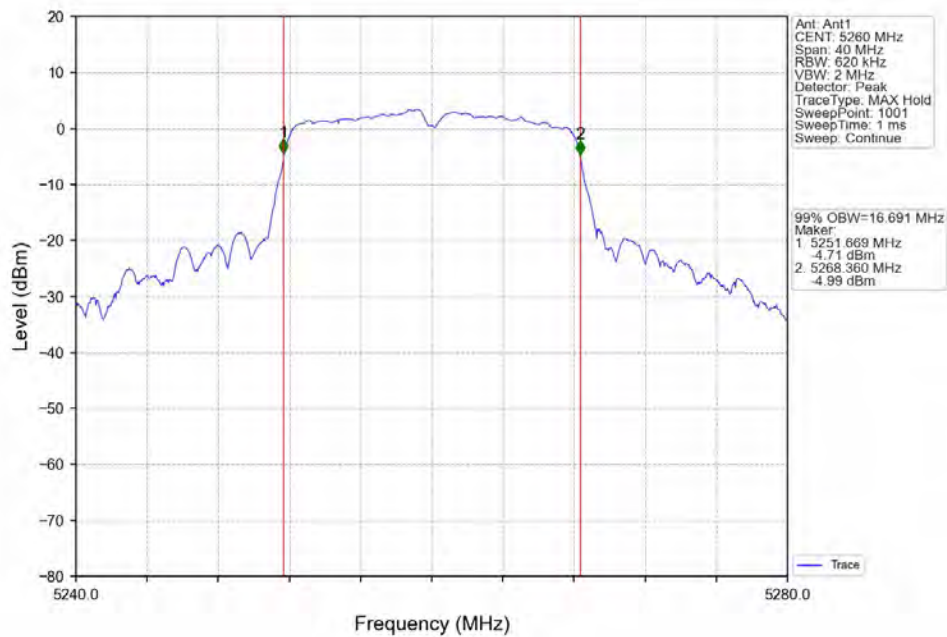
2.1.2 Test Graph



802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_LCH_5260MHz_Ant1_NTNV



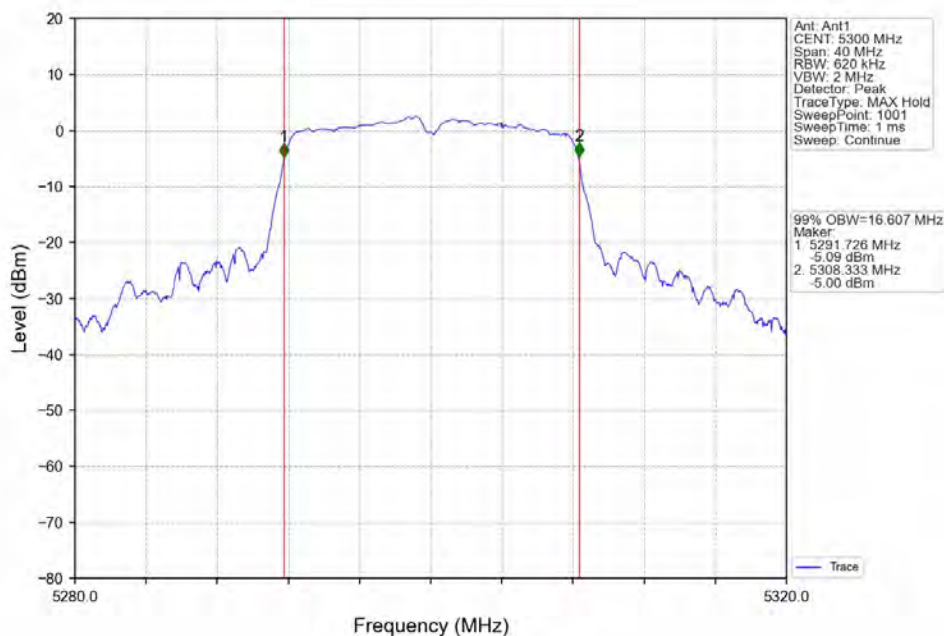
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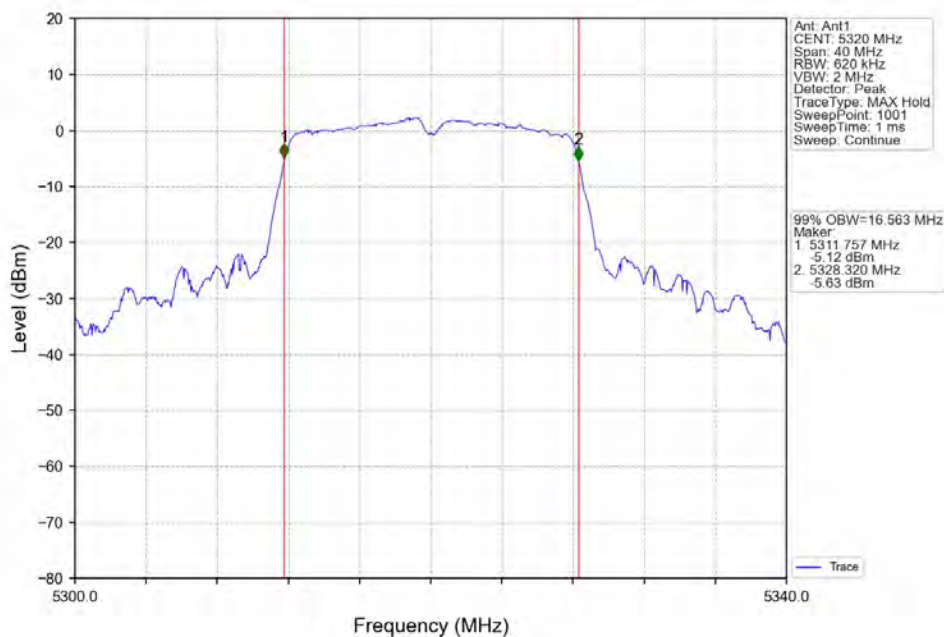
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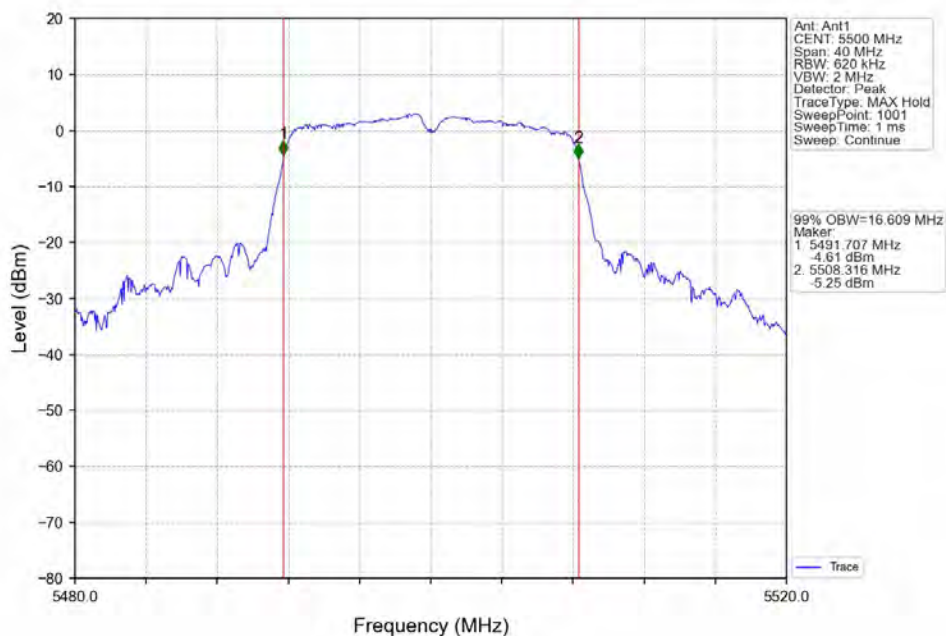
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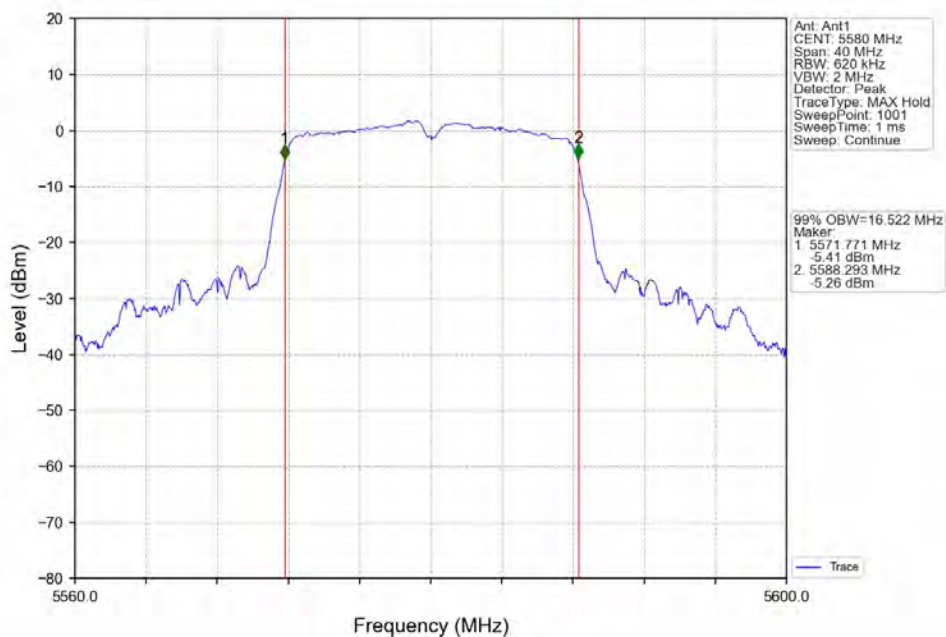
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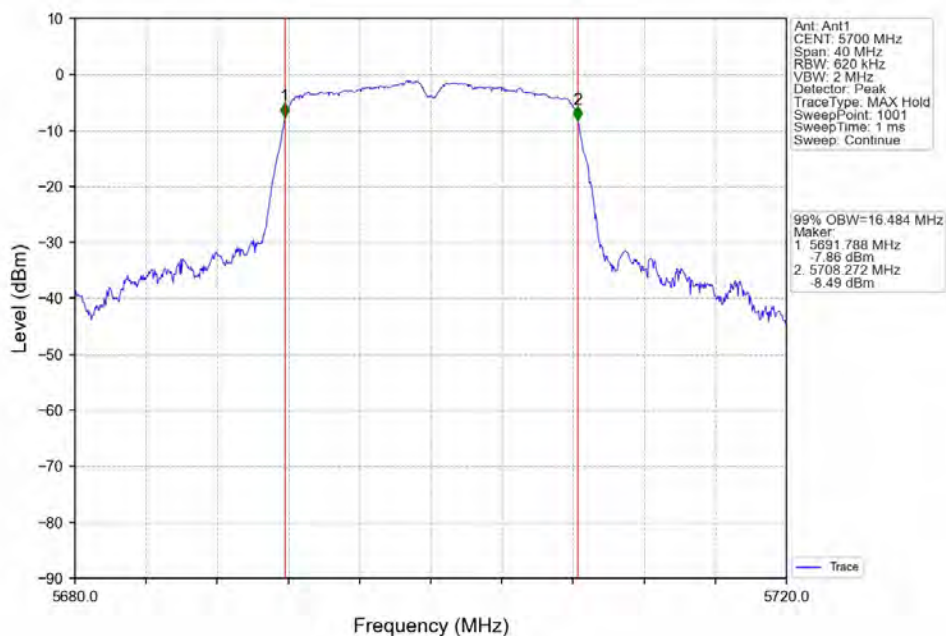
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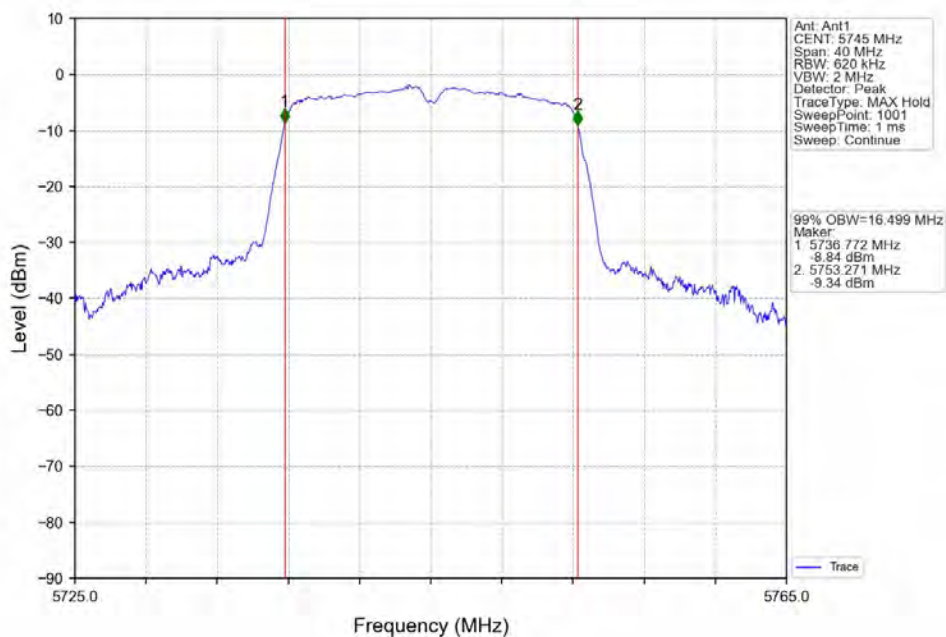
802.11a_MCH_5580MHz_Ant1_NTNV



802.11a_HCH_5700MHz_Ant1_NTNV



802.11a_LCH_5745MHz_Ant1_NTNV



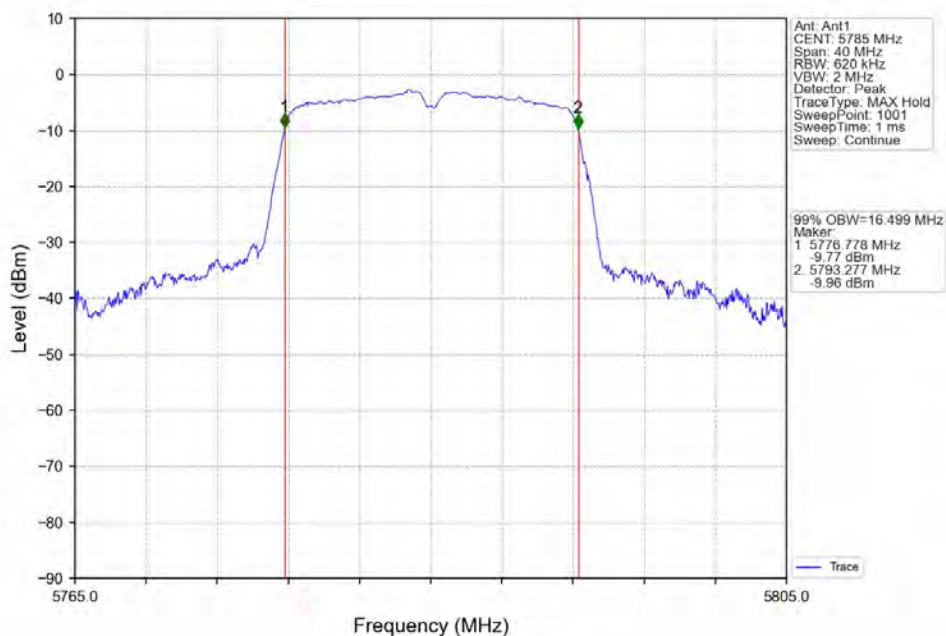
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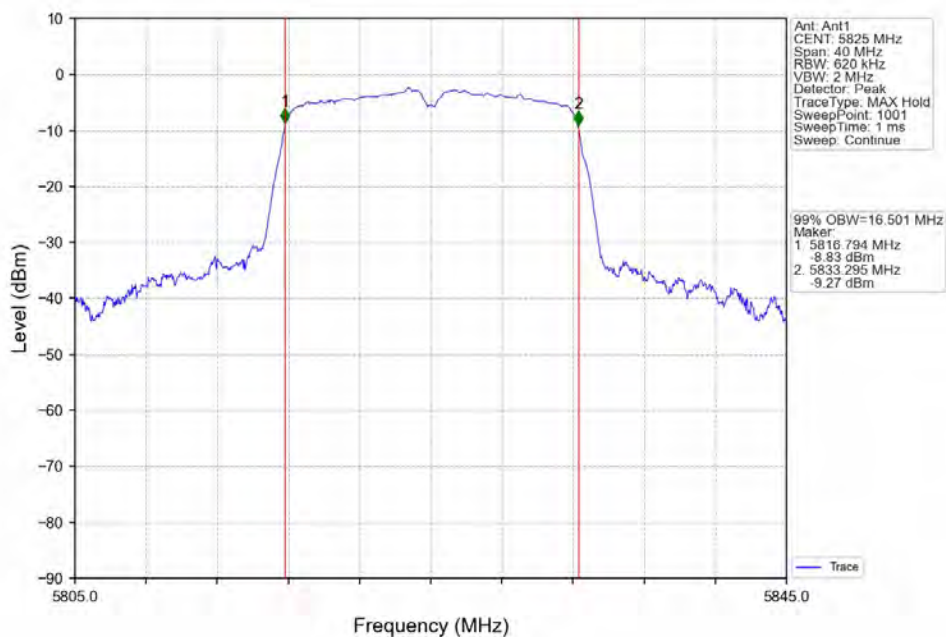
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802.11a_MCH_5785MHz_Ant1_NTNV



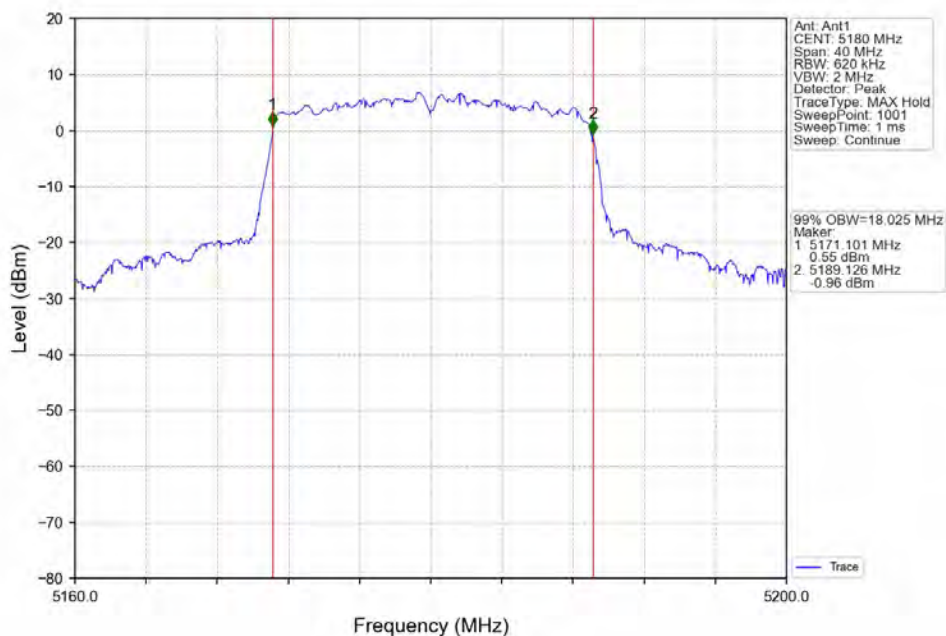
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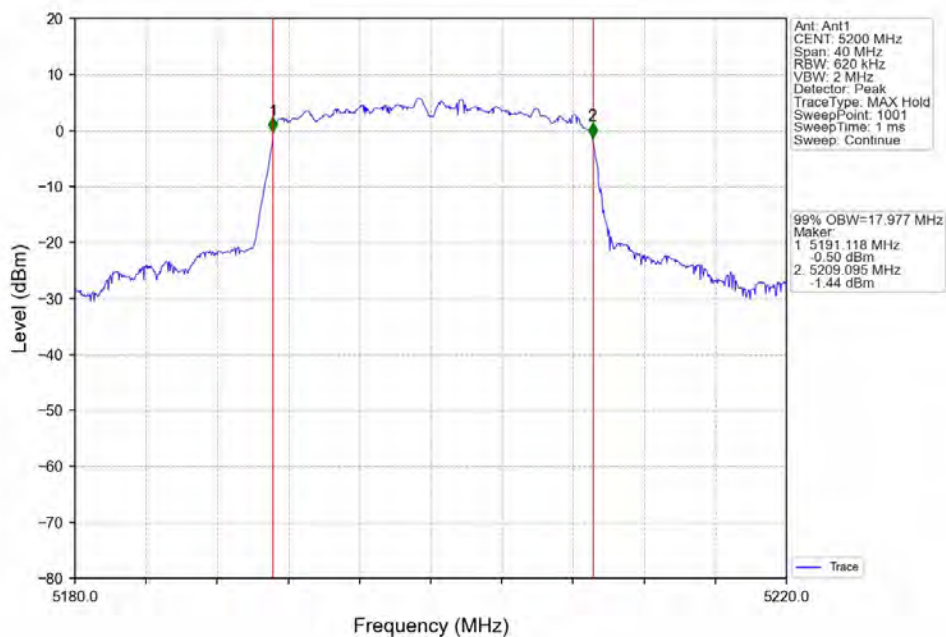
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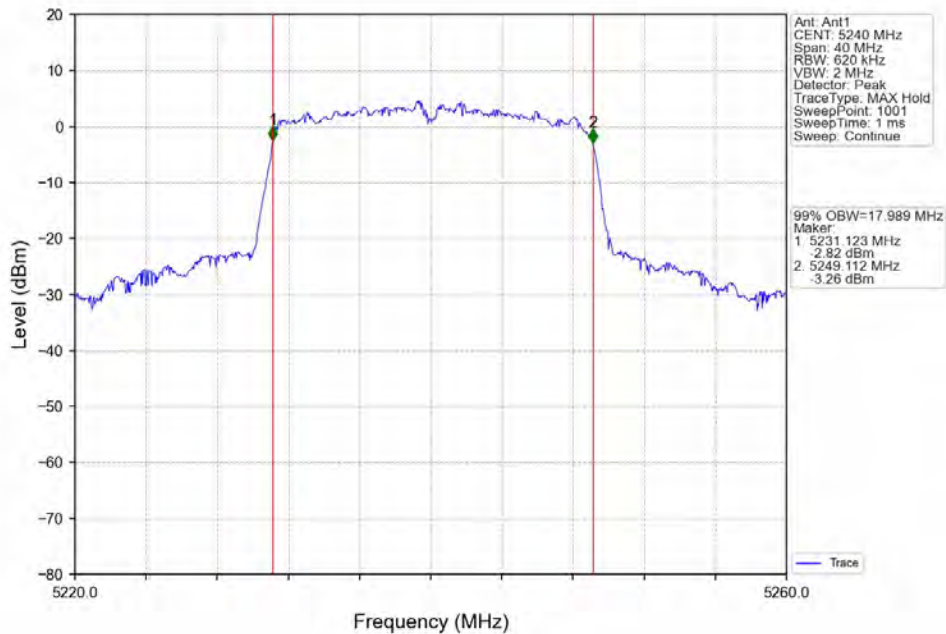
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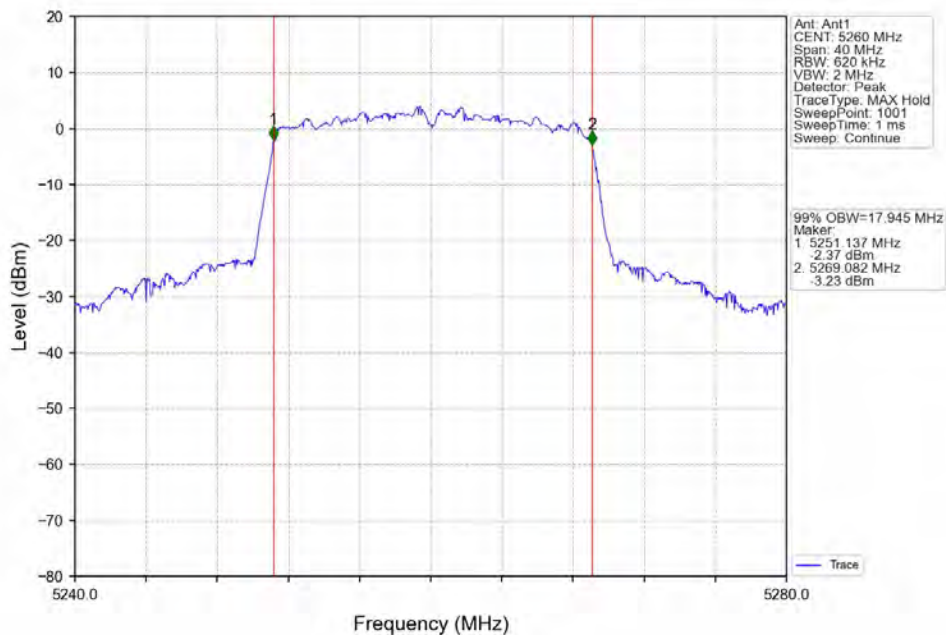
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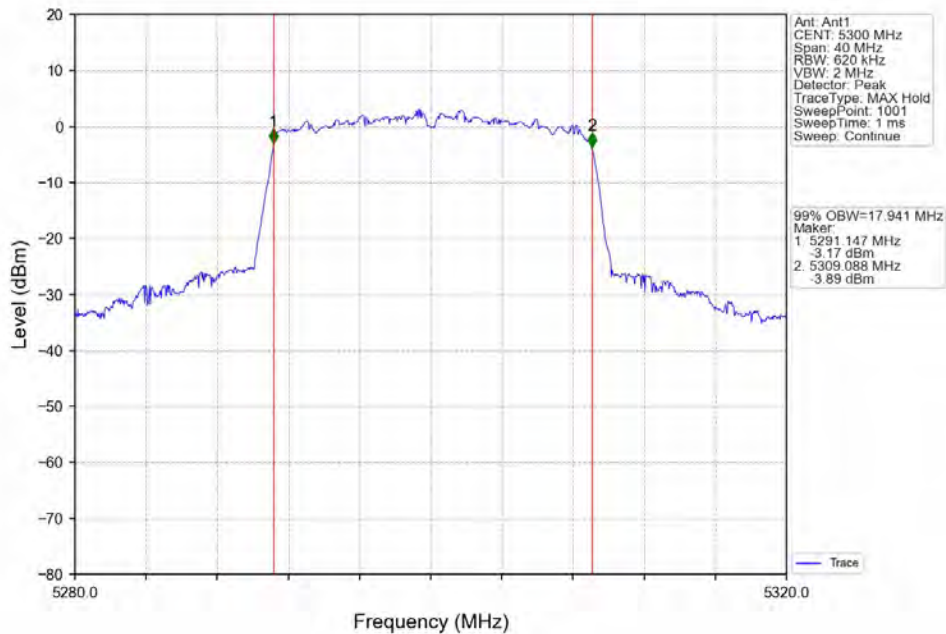
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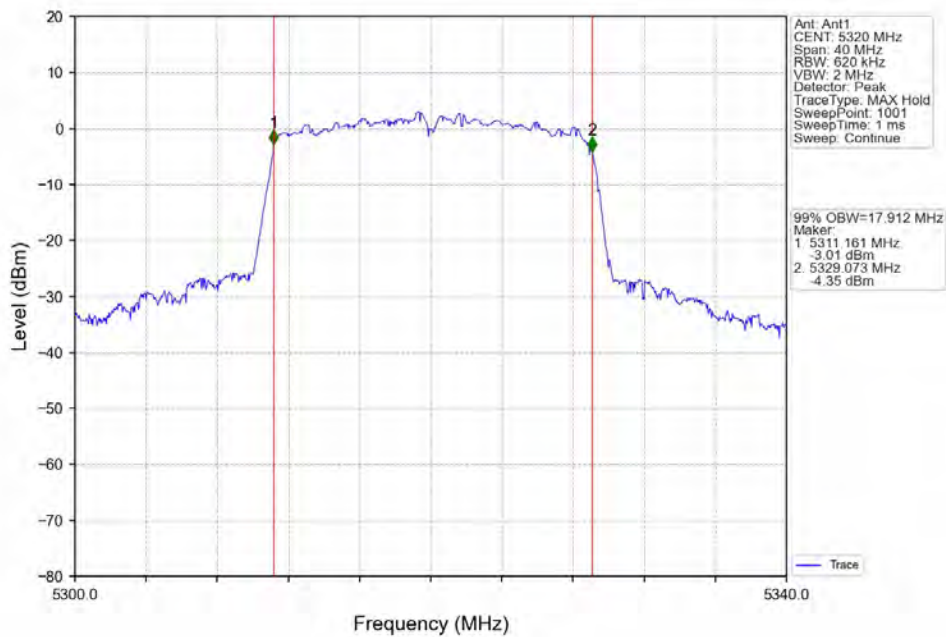
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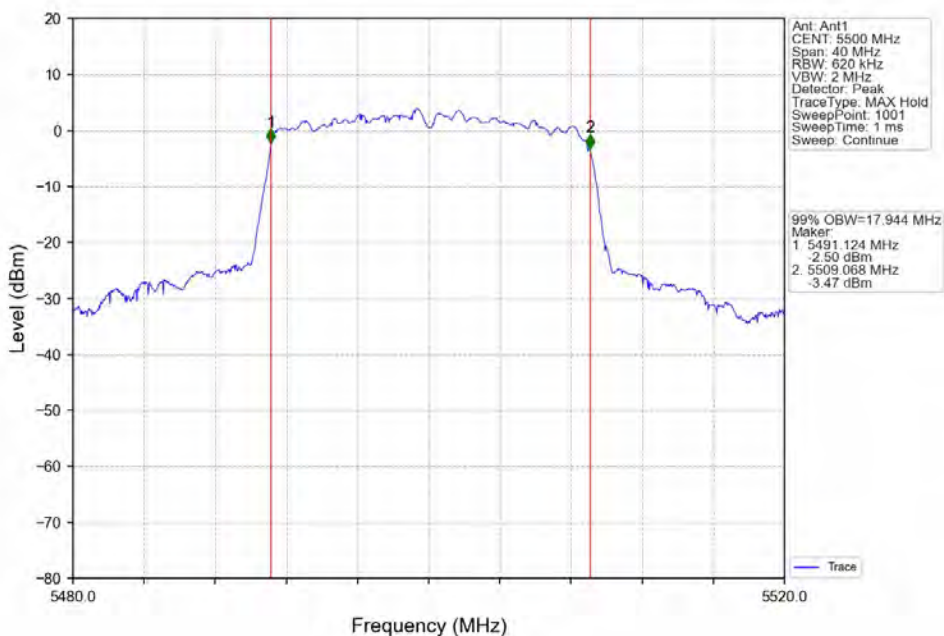
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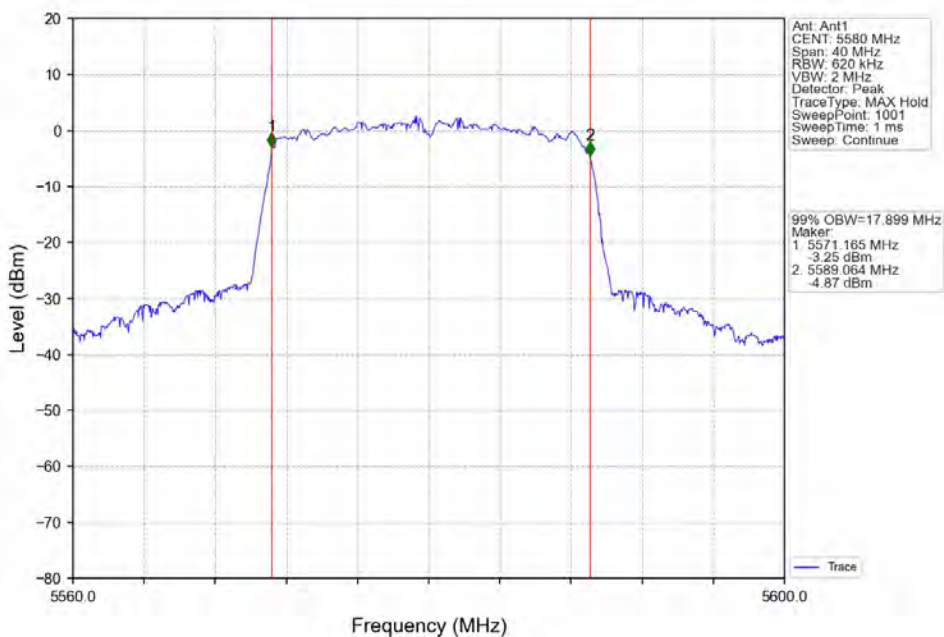
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802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



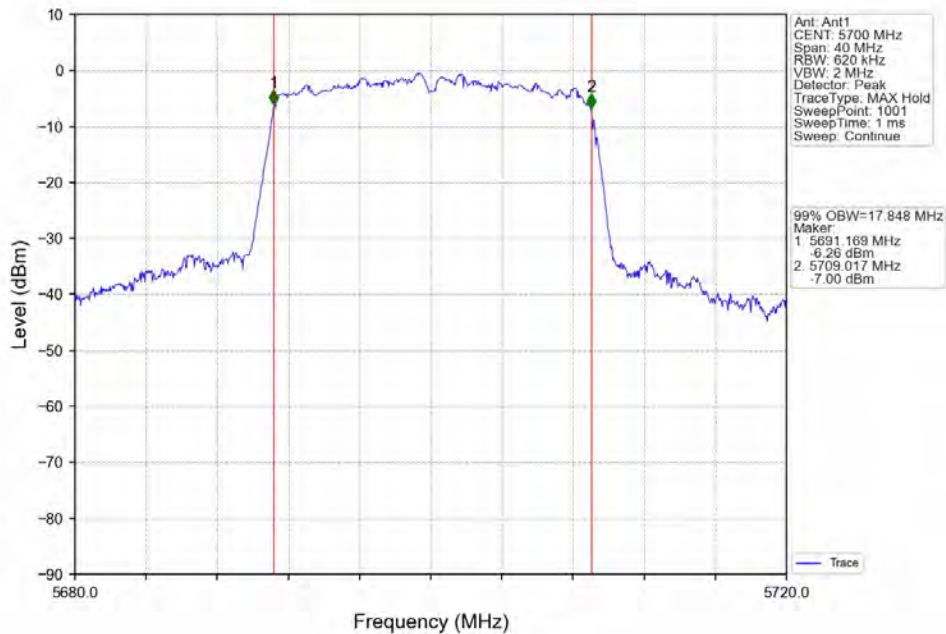
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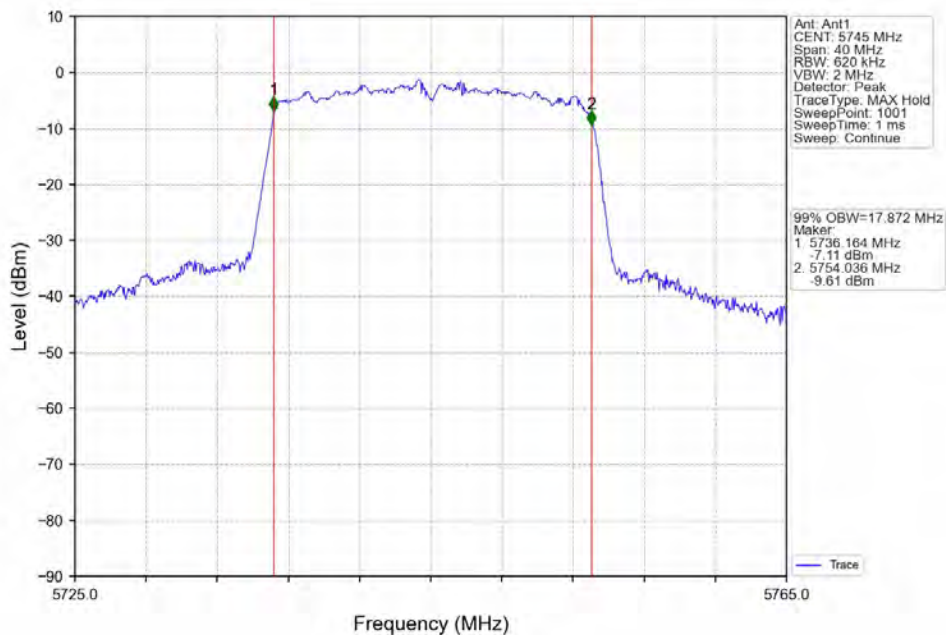
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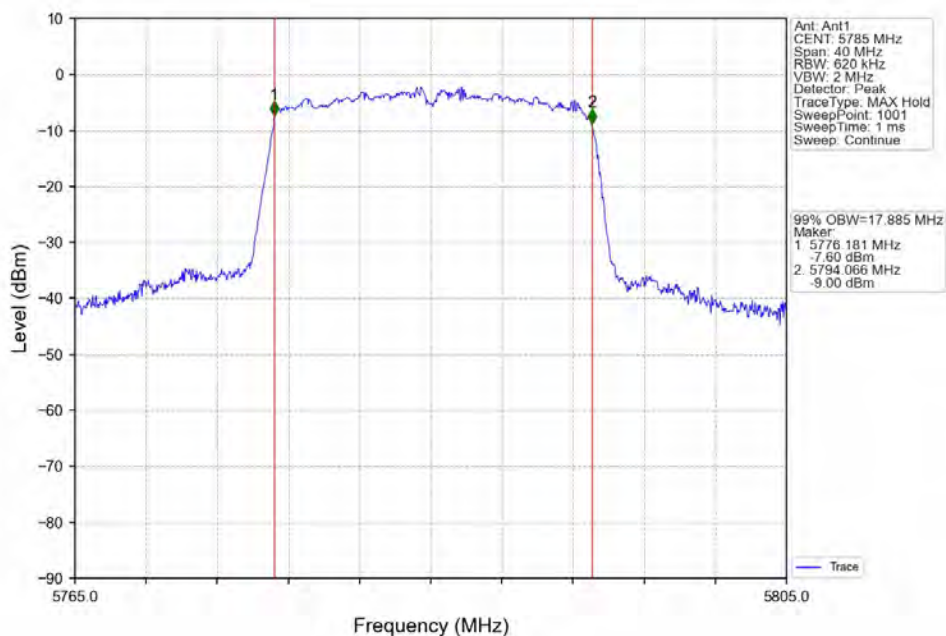
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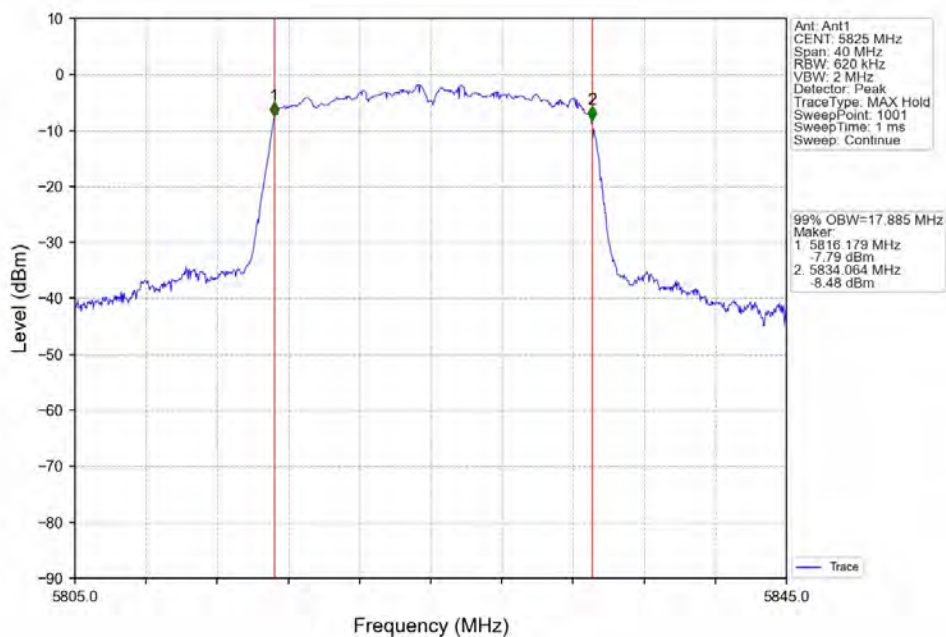
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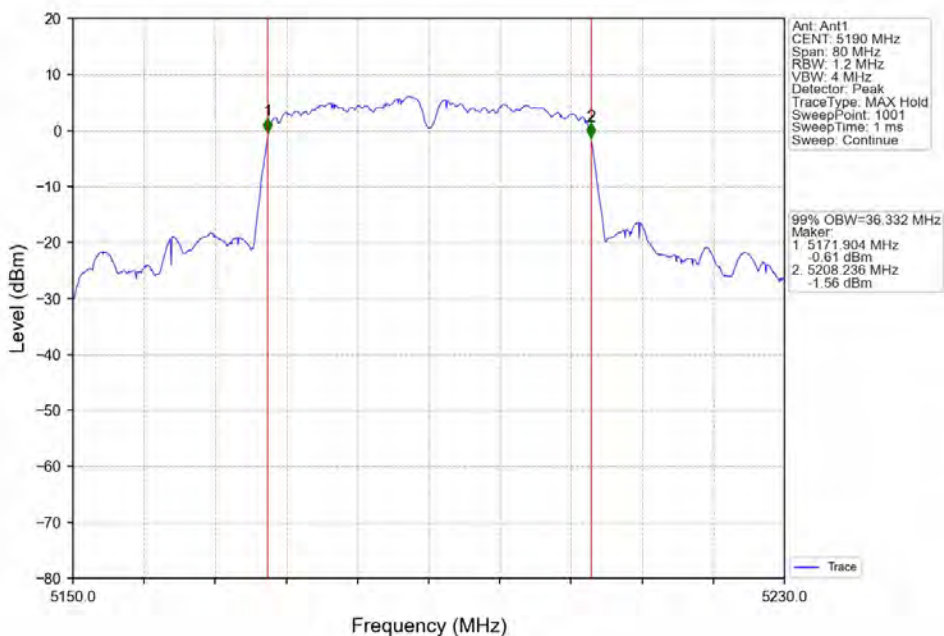
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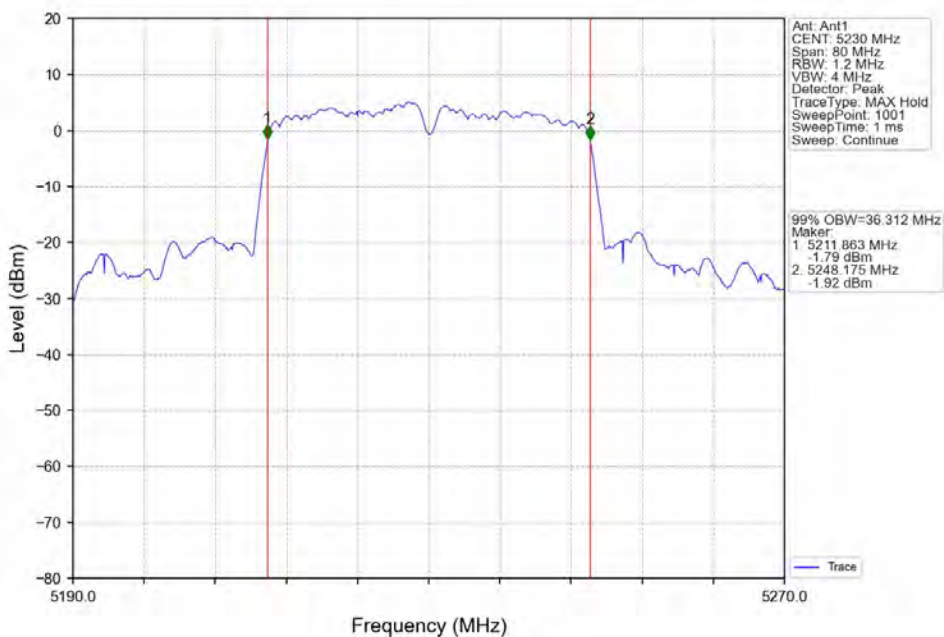
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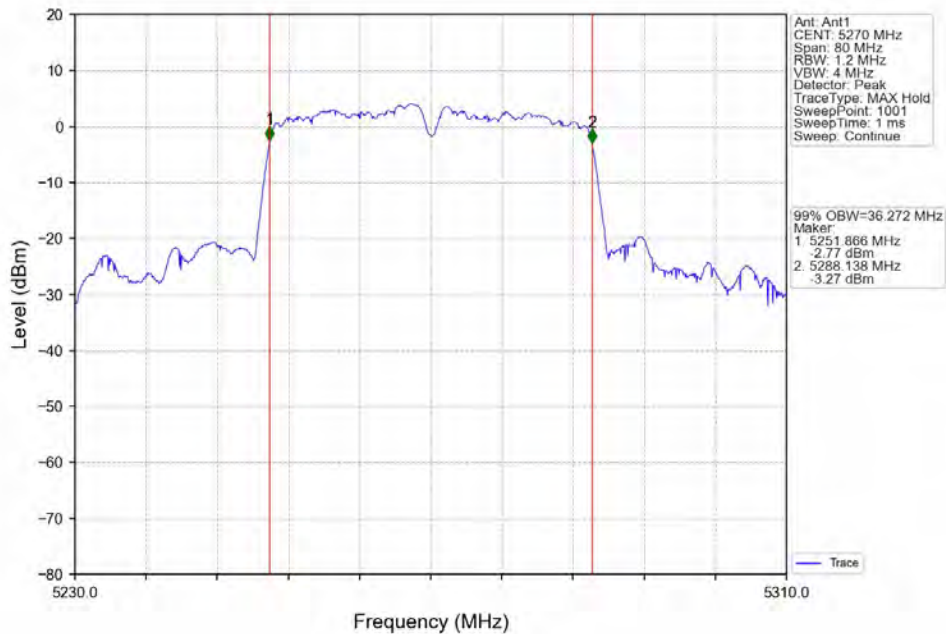
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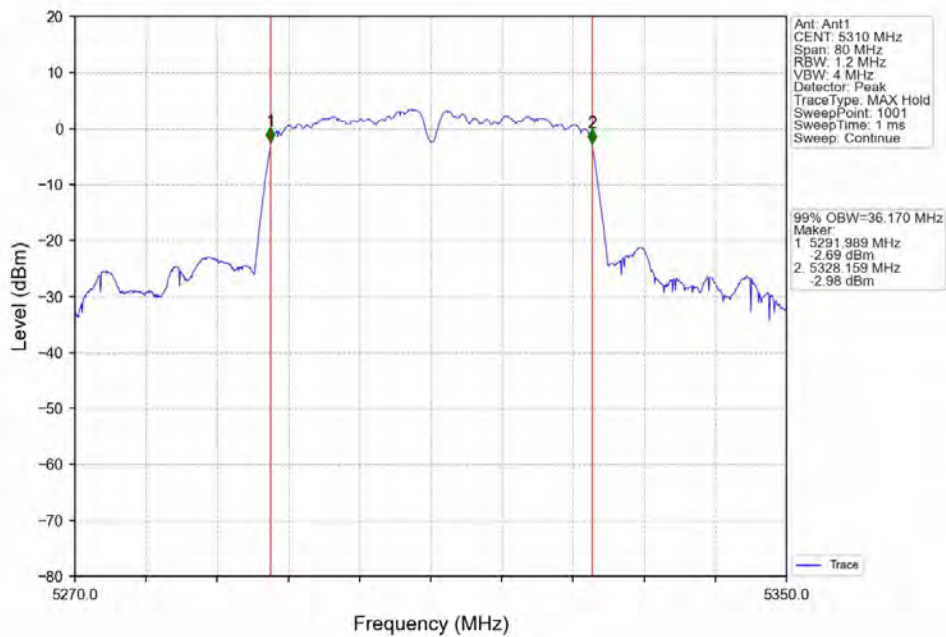
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



802.11n(HT40)_HCH_5310MHz_Ant1_NTNV



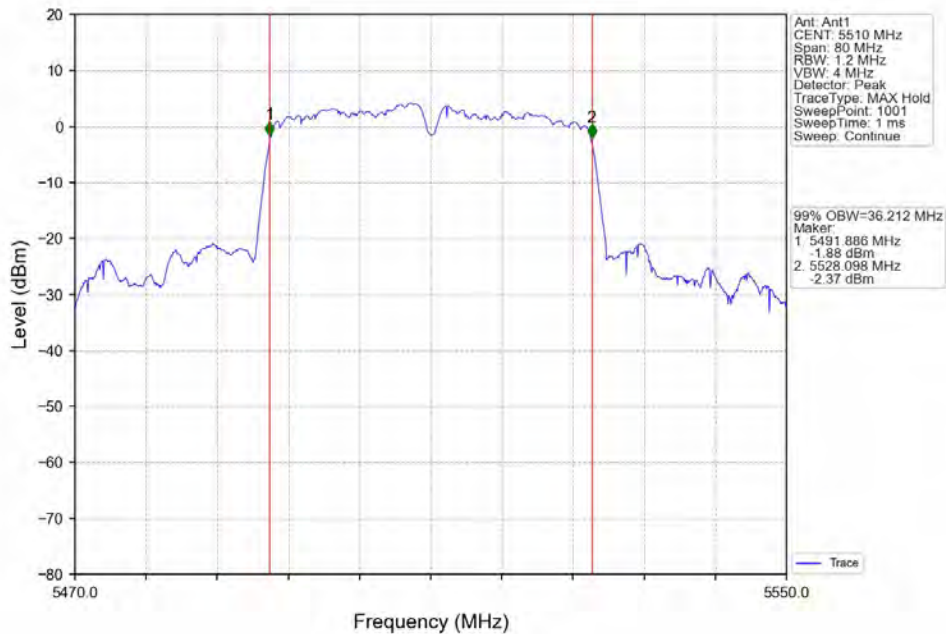
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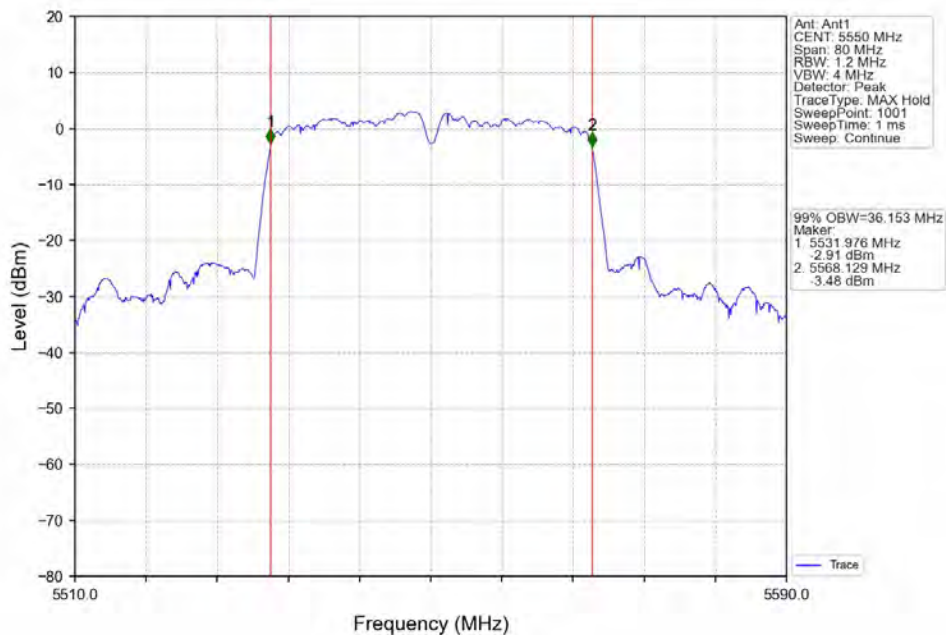
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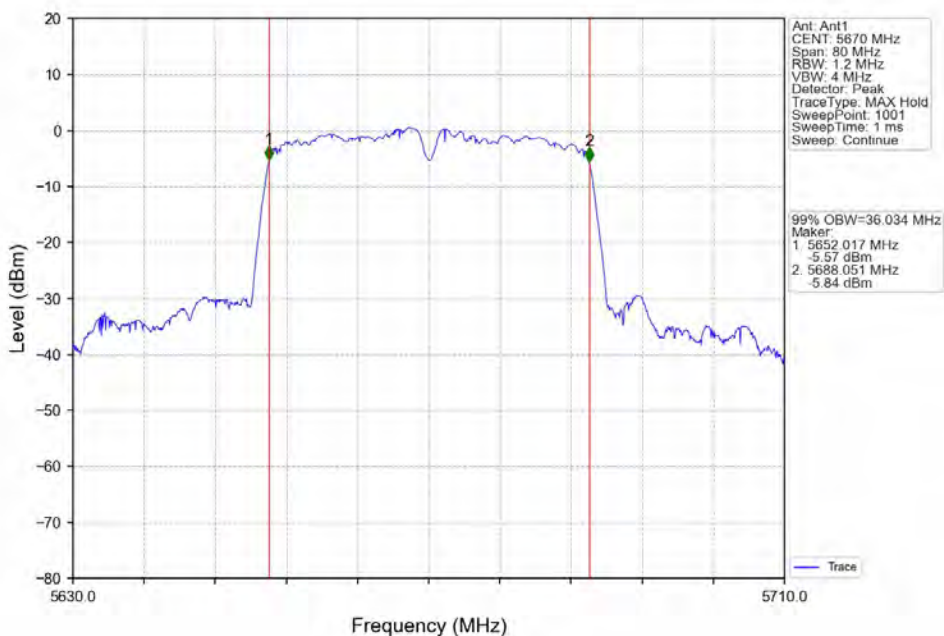
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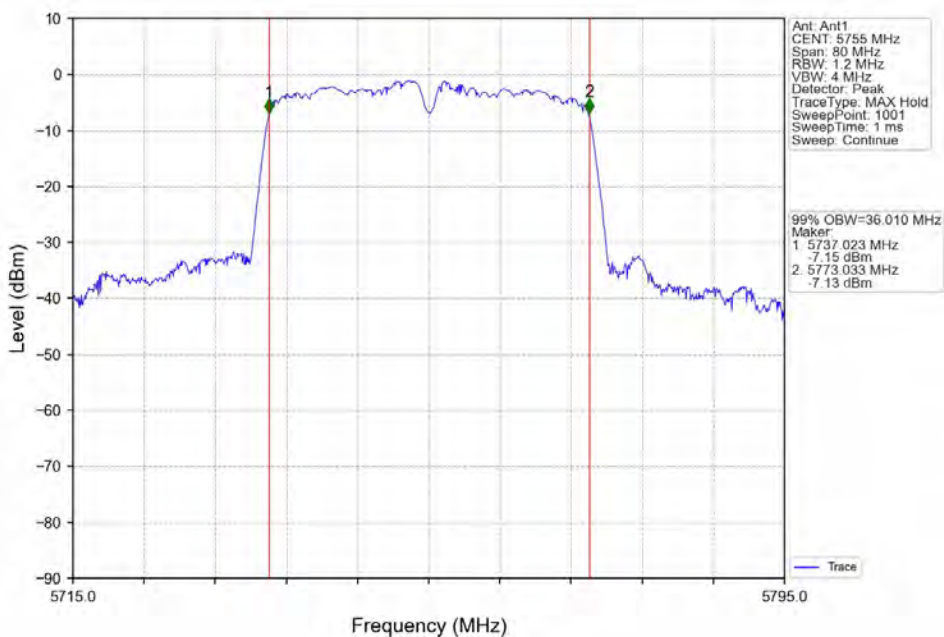
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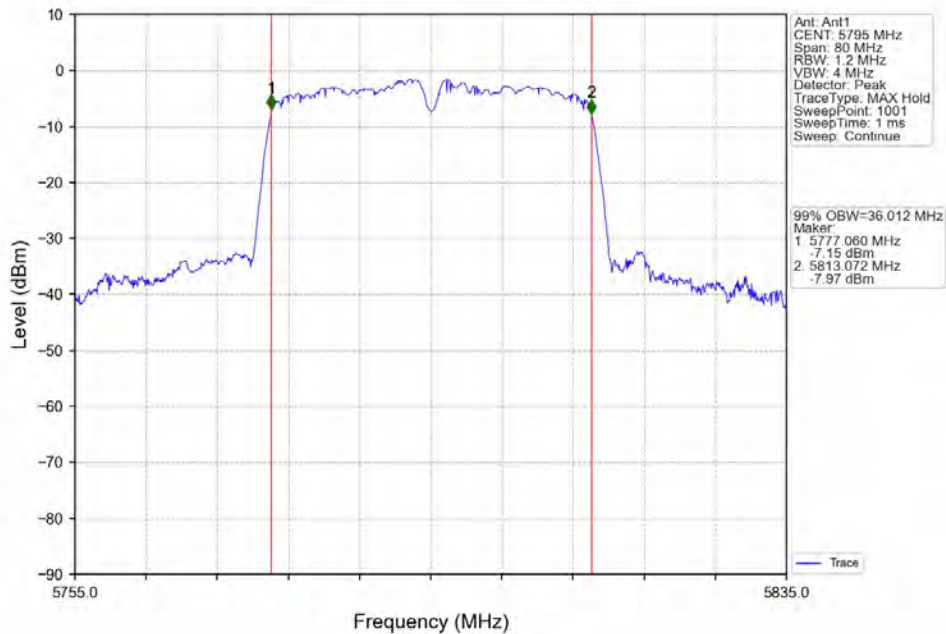
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802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



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Report No.: SZCR231200413005

Page: 241 of 293

2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	15.176	≥ 0.5	Pass
		5785	1	15.170	≥ 0.5	Pass
		5825	1	15.175	≥ 0.5	Pass
802.11n (HT20)	SISO	5745	1	17.301	≥ 0.5	Pass
		5785	1	17.072	≥ 0.5	Pass
		5825	1	17.051	≥ 0.5	Pass
802.11n (HT40)	SISO	5755	1	35.165	≥ 0.5	Pass
		5795	1	35.178	≥ 0.5	Pass



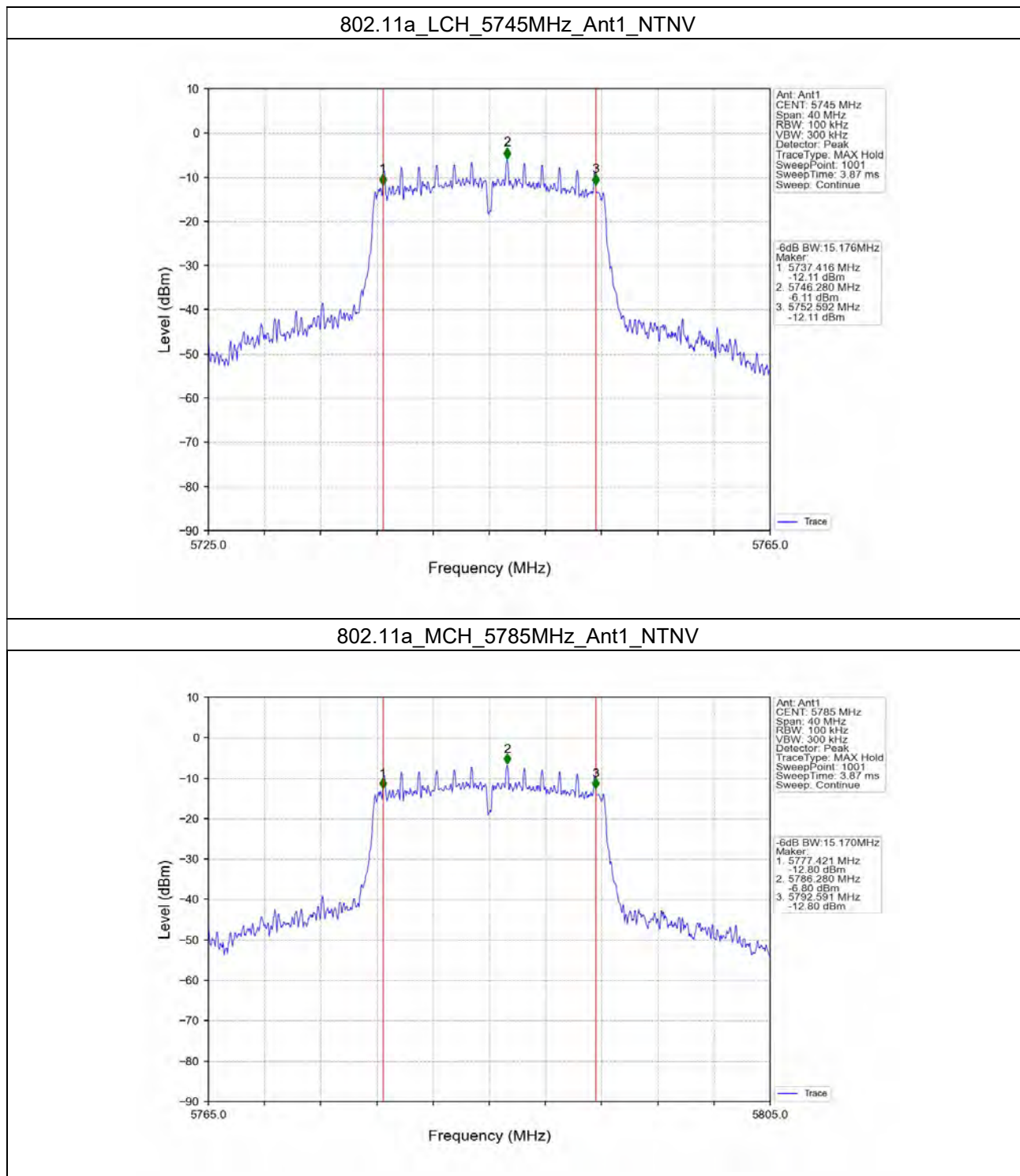
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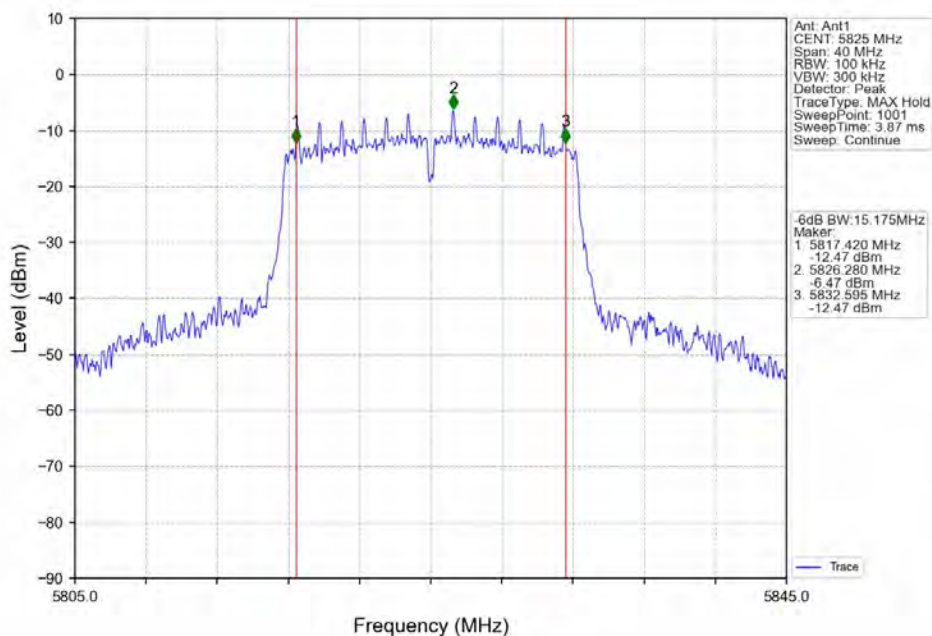
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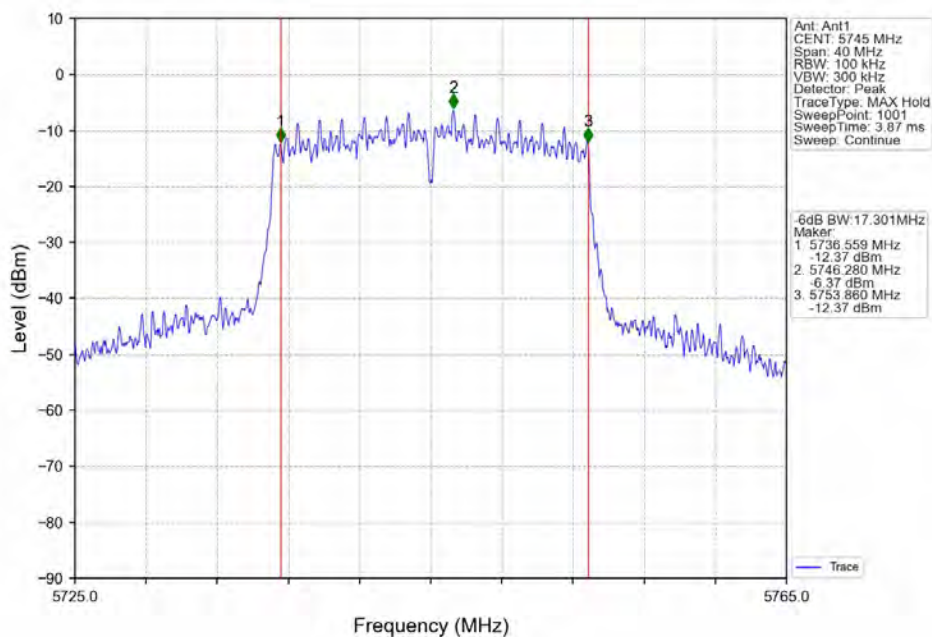
2.2.2 Test Graph



802.11a_HCH_5825MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



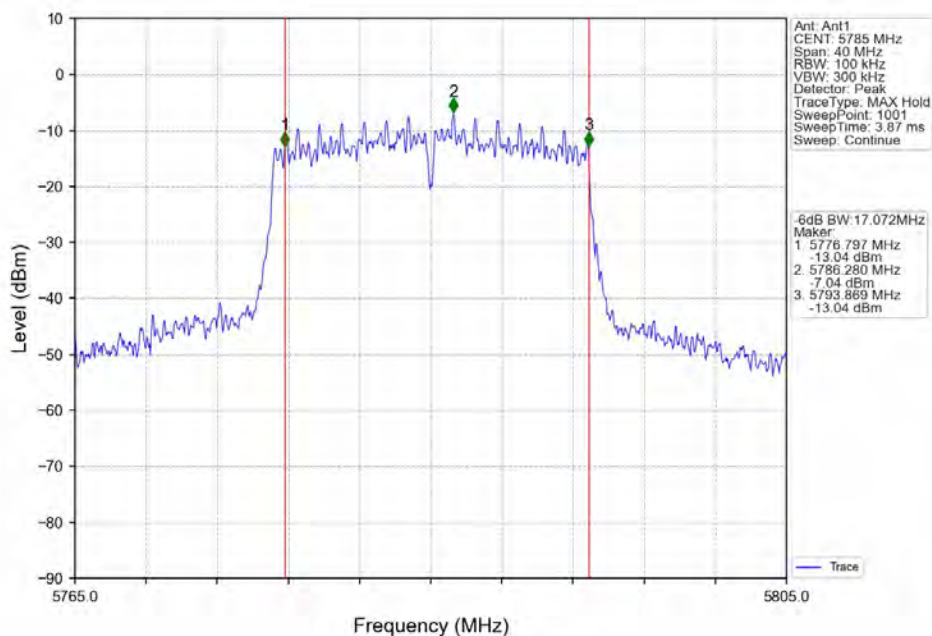
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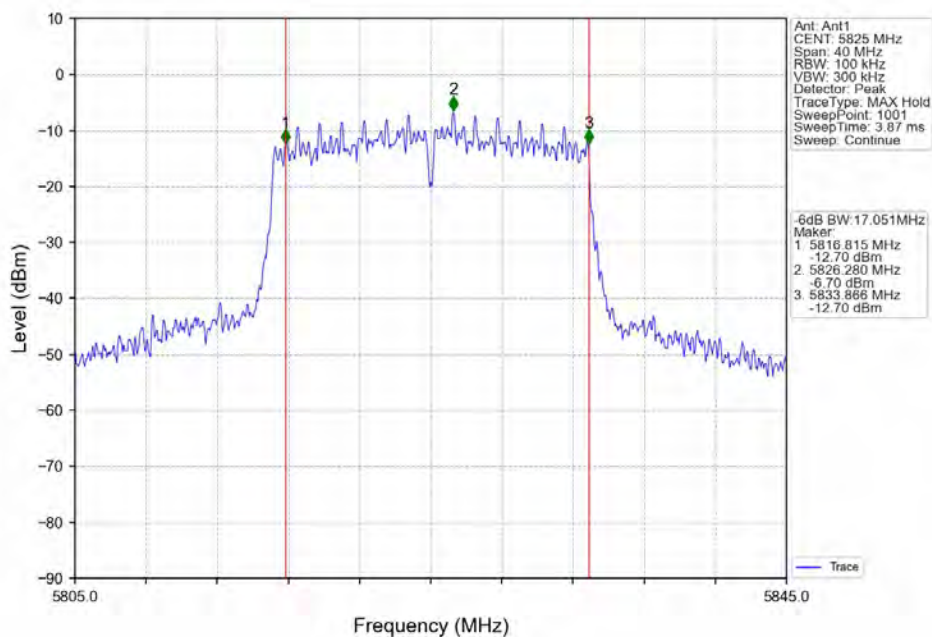
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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



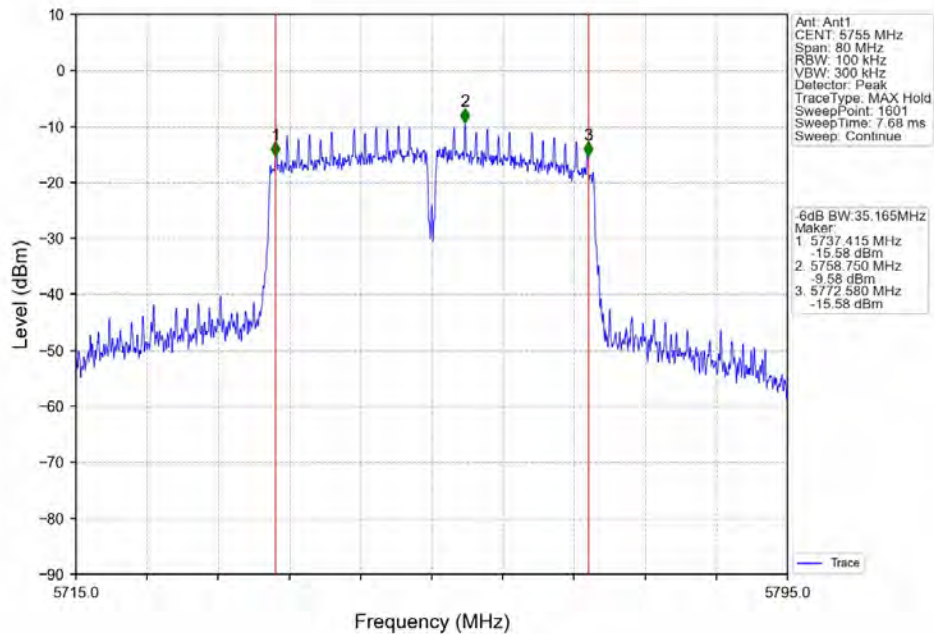
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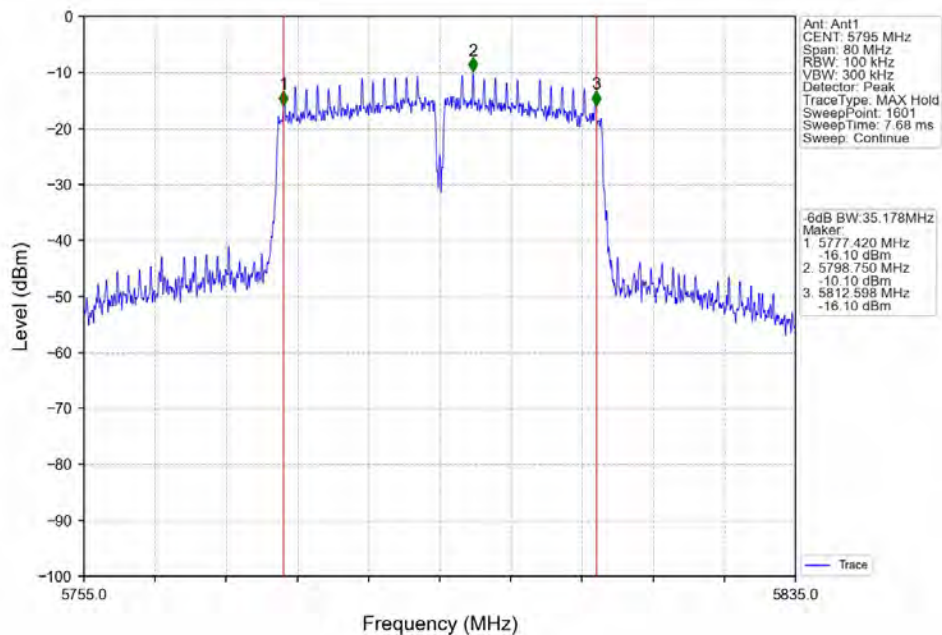
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802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413005

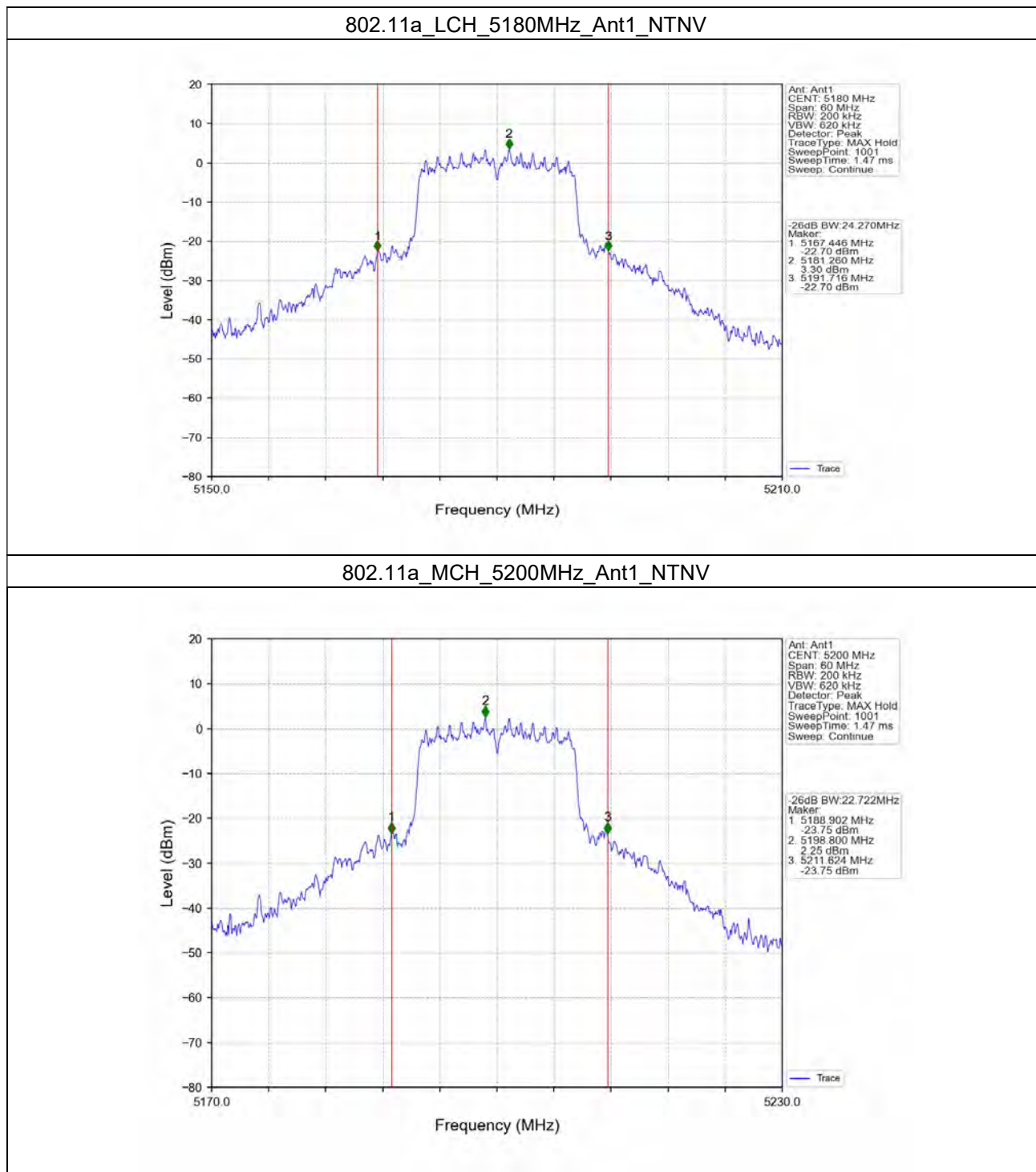
Page: 246 of 293

2.3 26dB BW

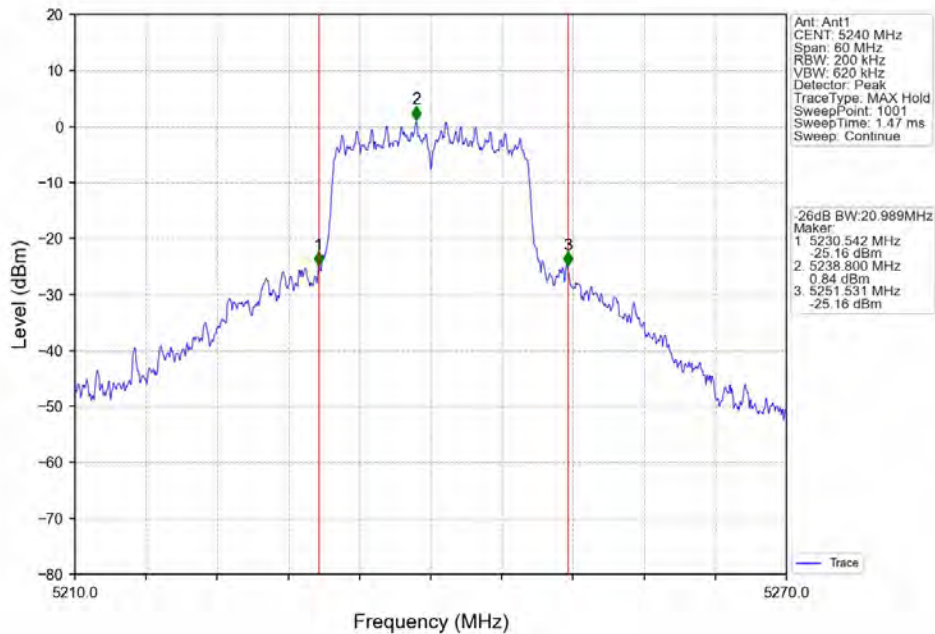
2.3.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	24.270	/	Pass
		5200	1	22.722	/	Pass
		5240	1	20.989	/	Pass
		5260	1	18.927	/	Pass
		5300	1	18.266	/	Pass
		5320	1	18.183	/	Pass
		5500	1	18.325	/	Pass
		5580	1	18.002	/	Pass
		5700	1	17.922	/	Pass
802.11n (HT20)	SISO	5180	1	19.590	/	Pass
		5200	1	19.396	/	Pass
		5240	1	19.271	/	Pass
		5260	1	19.145	/	Pass
		5300	1	19.042	/	Pass
		5320	1	19.056	/	Pass
		5500	1	19.135	/	Pass
		5580	1	18.982	/	Pass
		5700	1	19.047	/	Pass
802.11n (HT40)	SISO	5190	1	53.955	/	Pass
		5230	1	53.454	/	Pass
		5270	1	48.890	/	Pass
		5310	1	38.356	/	Pass
		5510	1	44.051	/	Pass
		5550	1	38.395	/	Pass
		5670	1	38.362	/	Pass

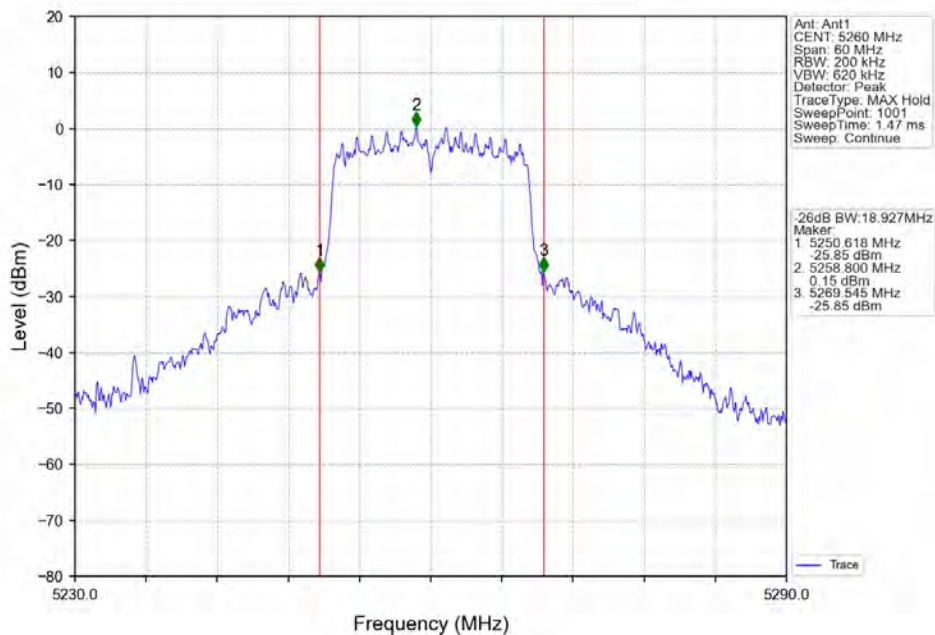
2.3.2 Test Graph



802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_LCH_5260MHz_Ant1_NTNV



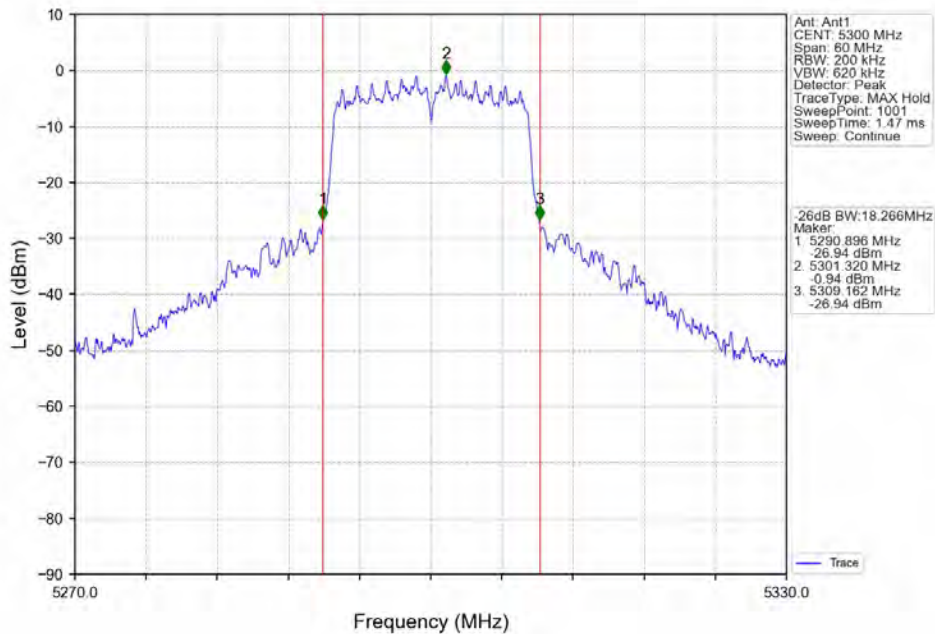
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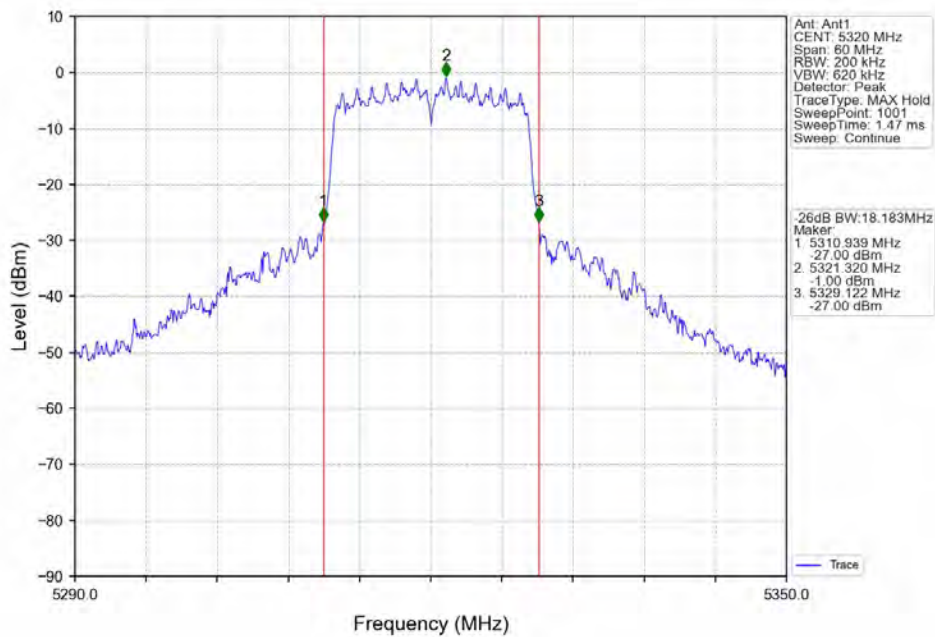
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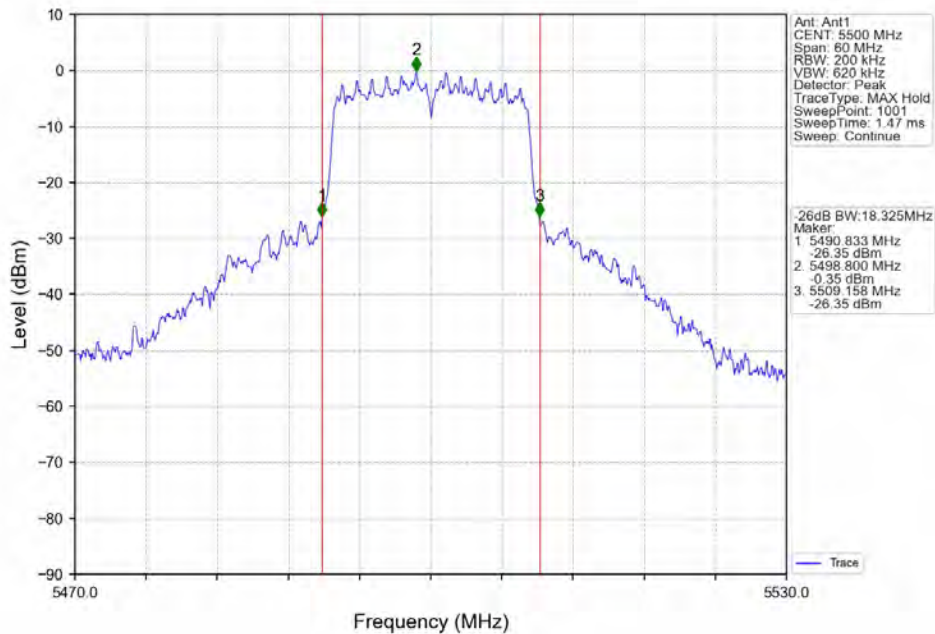
802.11a_MCH_5300MHz_Ant1_NTNV



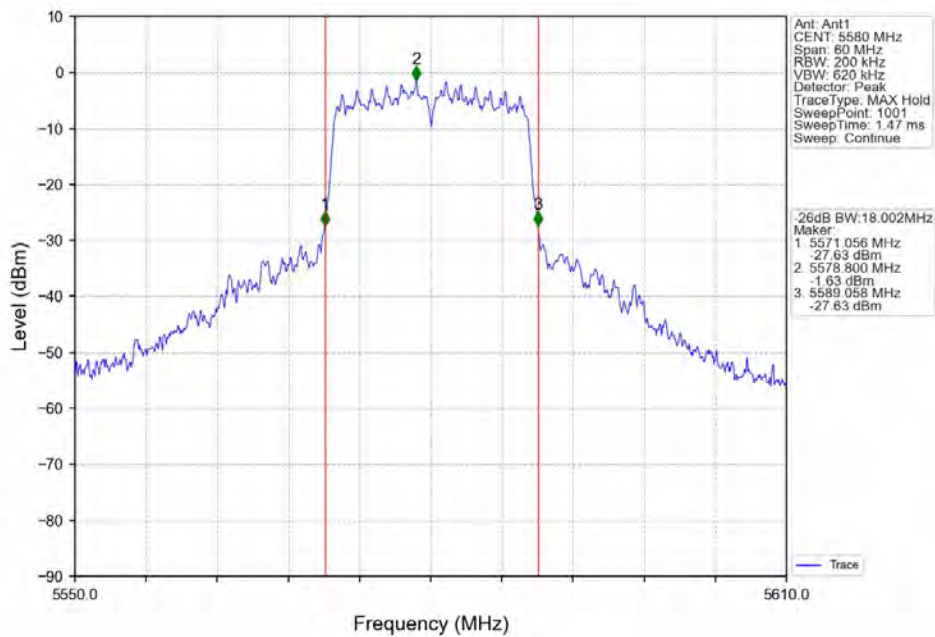
802.11a_HCH_5320MHz_Ant1_NTNV



802.11a_LCH_5500MHz_Ant1_NTNV



802.11a_MCH_5580MHz_Ant1_NTNV



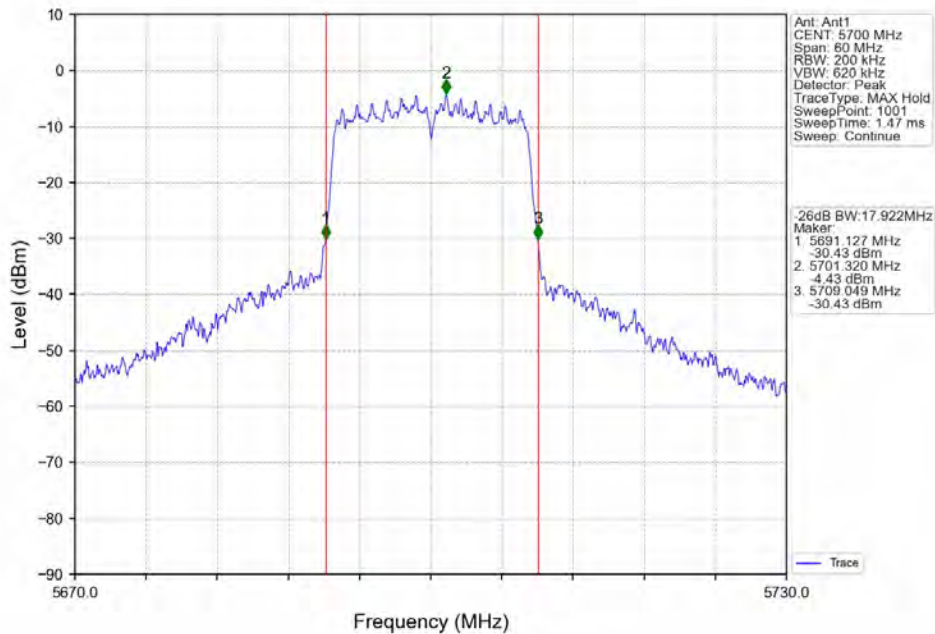
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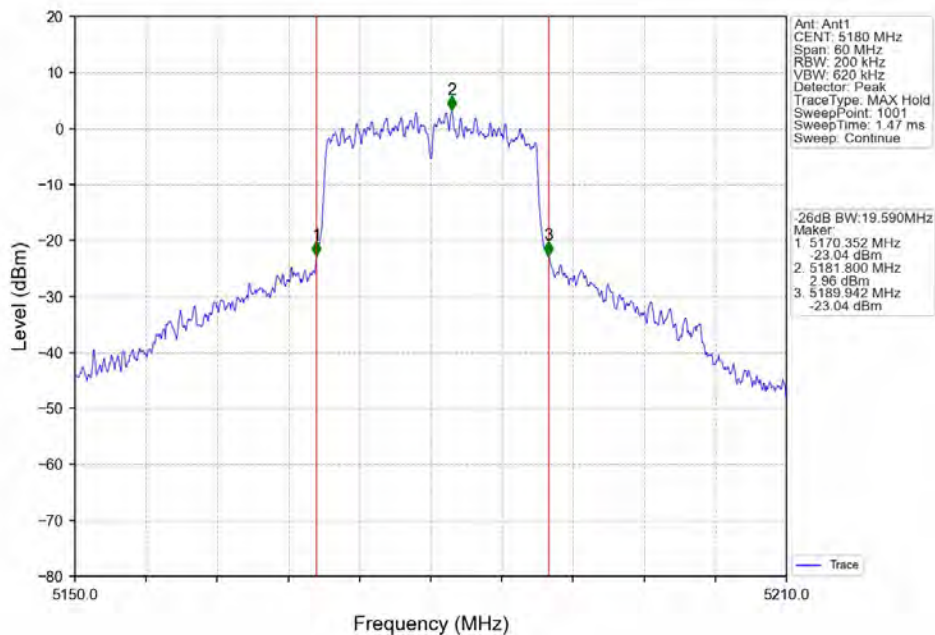
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802.11a_HCH_5700MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



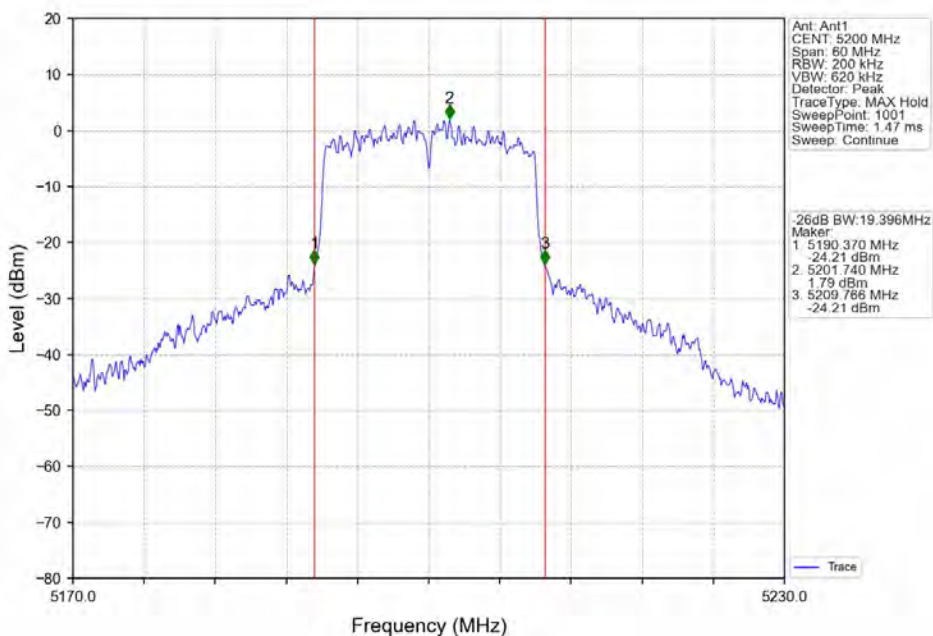
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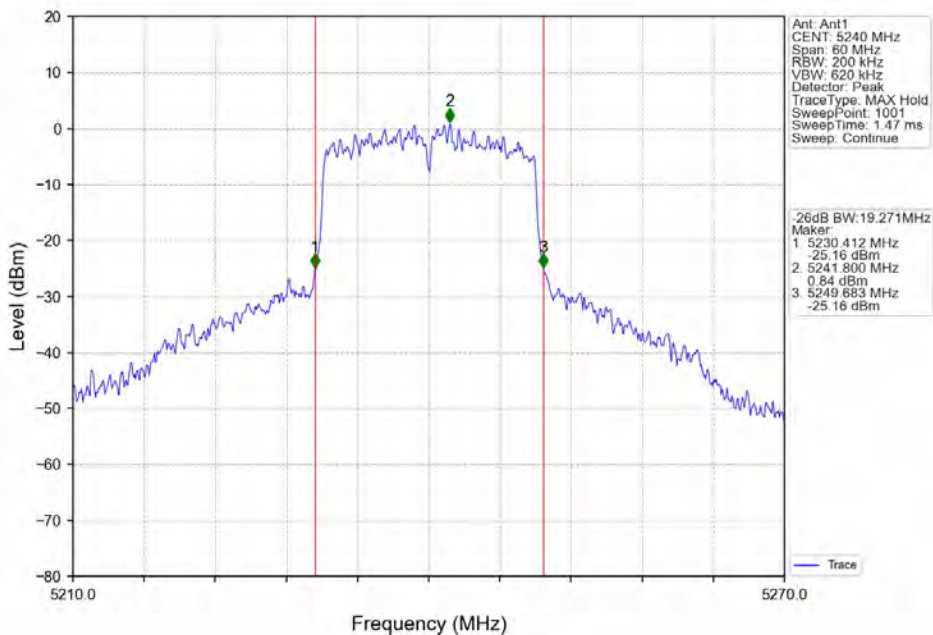
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802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



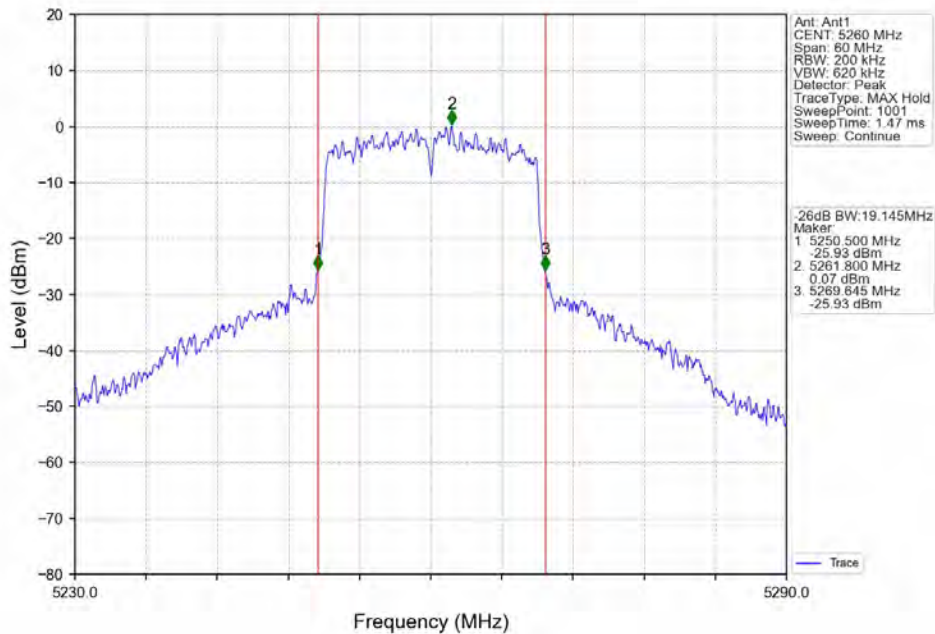
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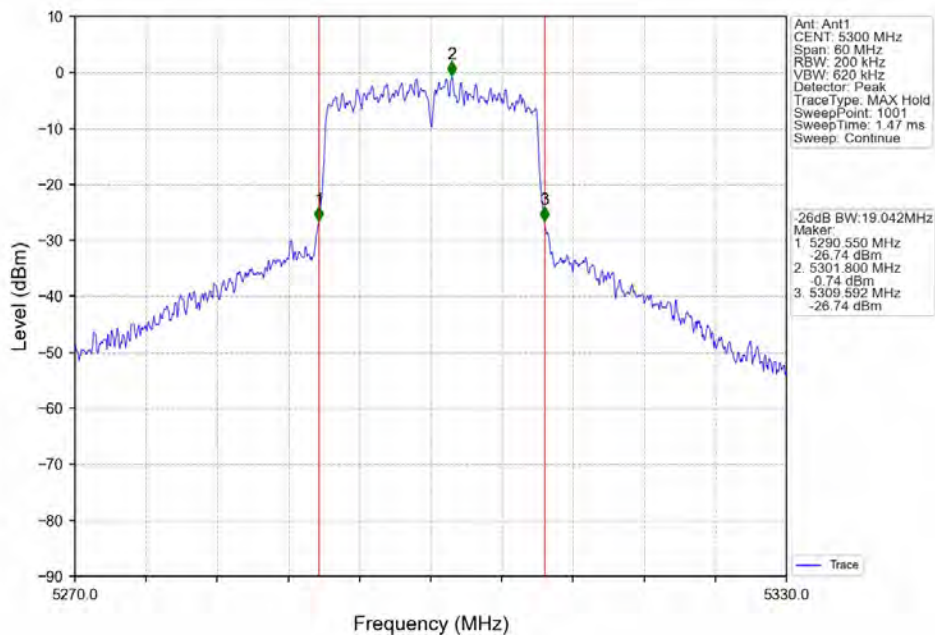
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802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



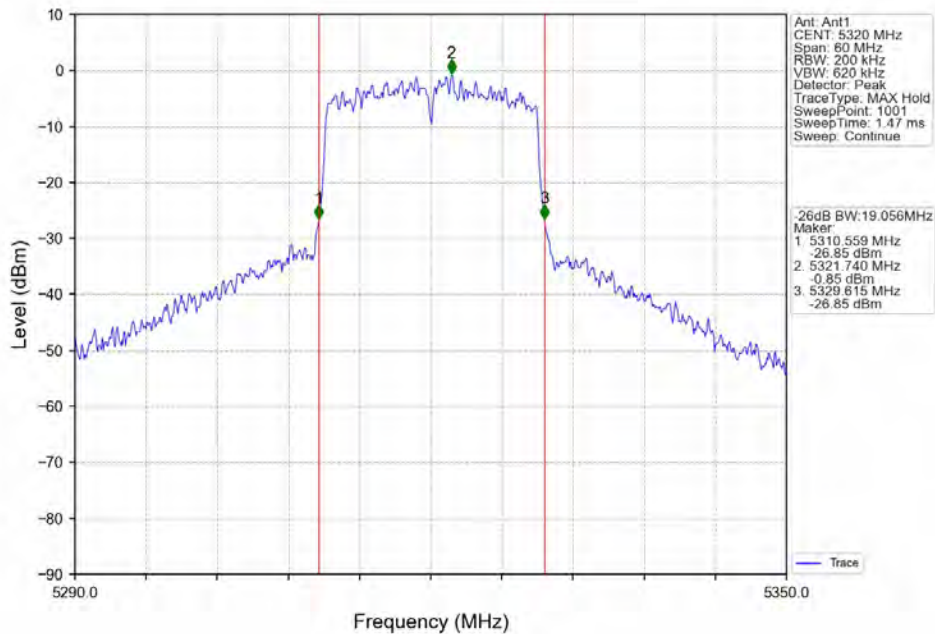
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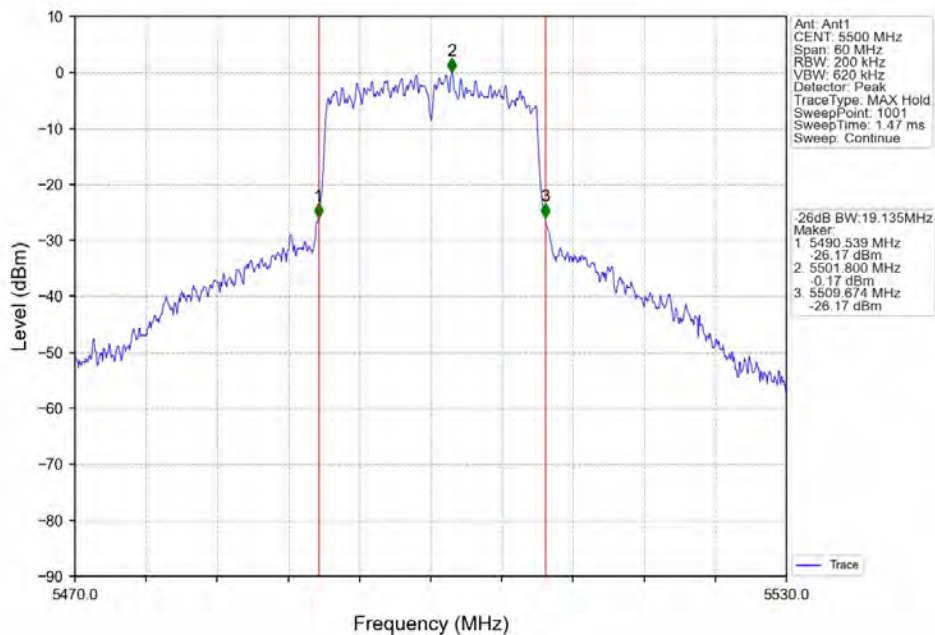
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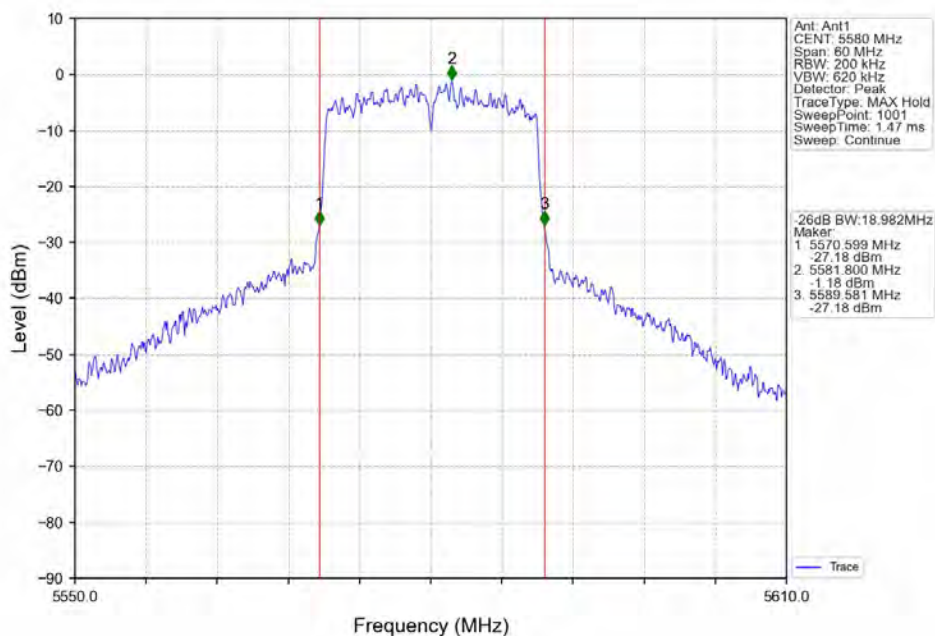
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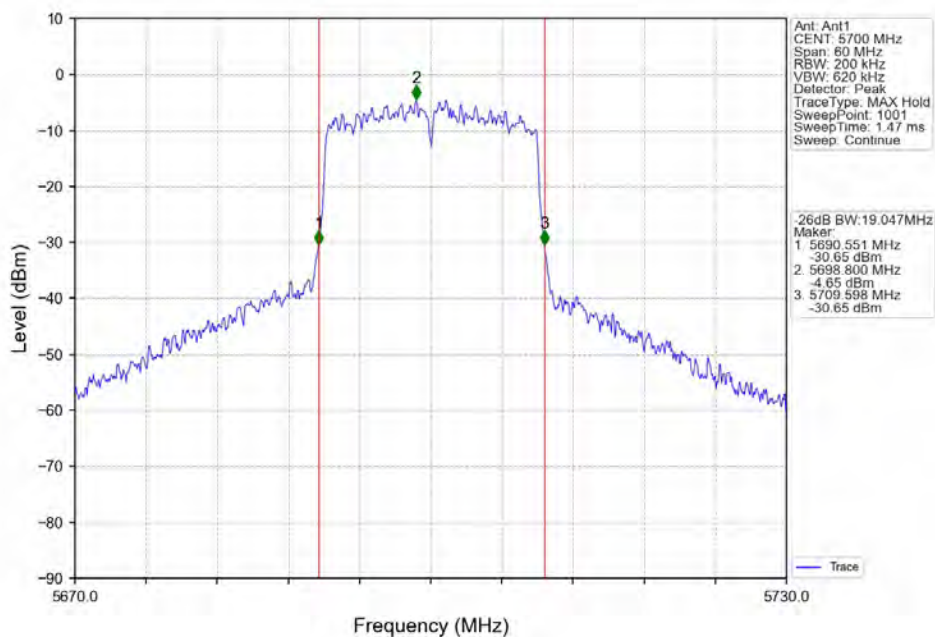
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802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



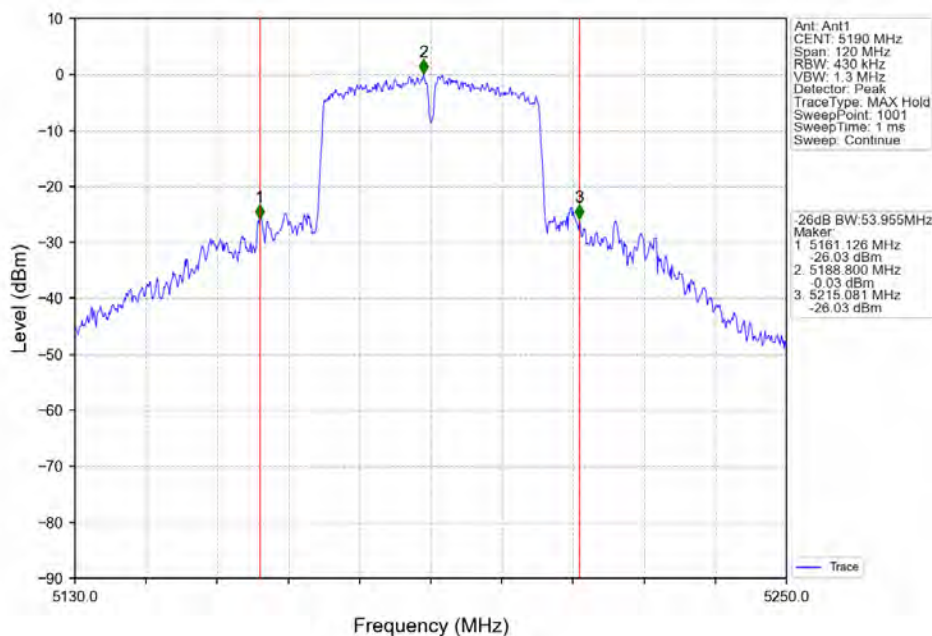
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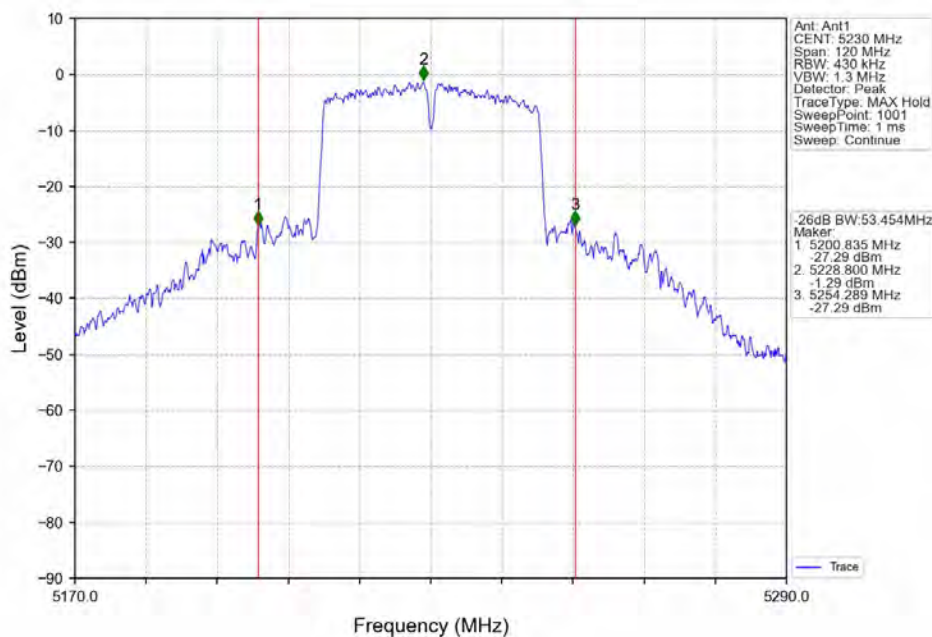
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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



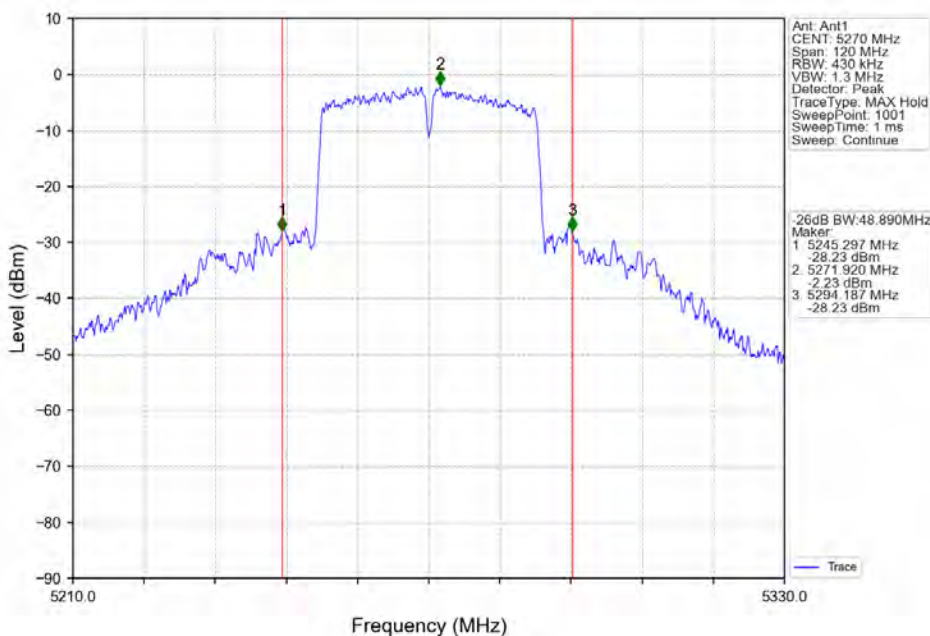
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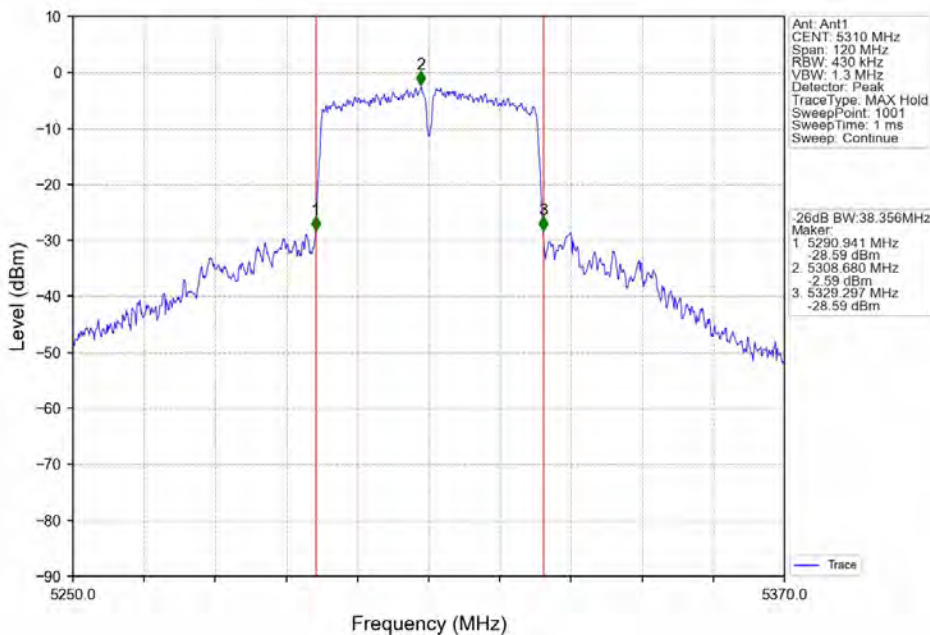
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802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



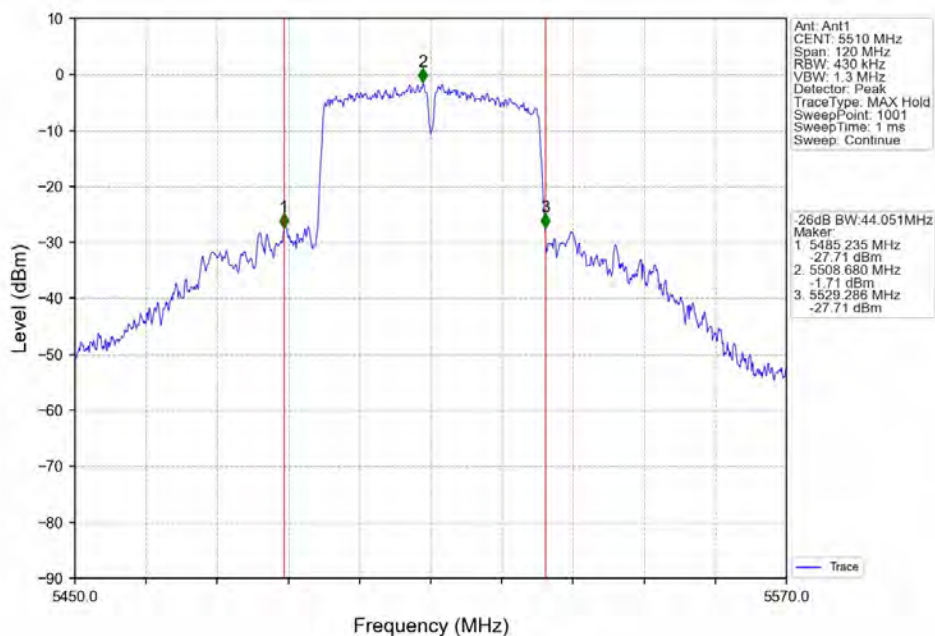
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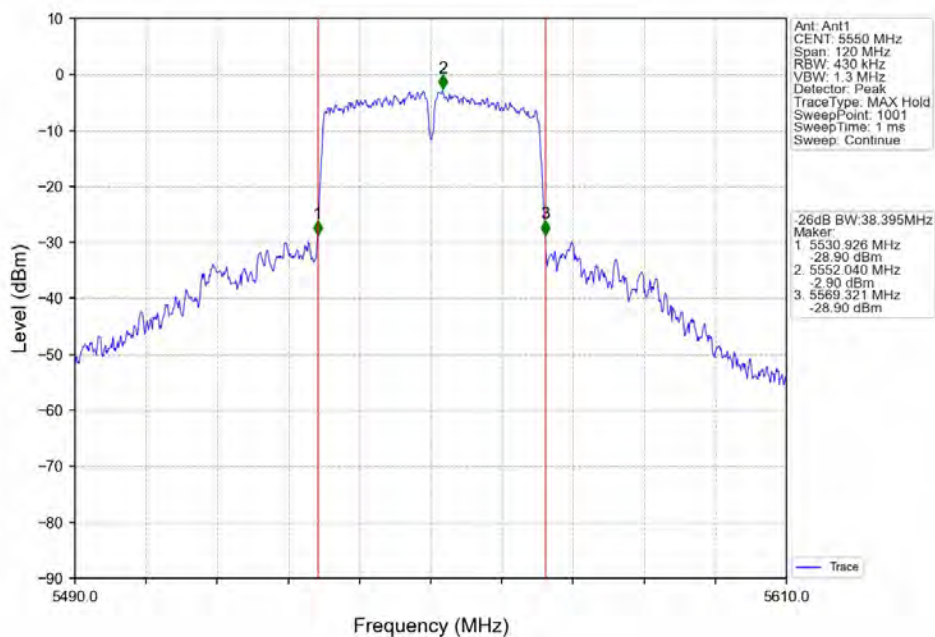
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802.11n(HT40)_MCH_5550MHz_Ant1_NTNV



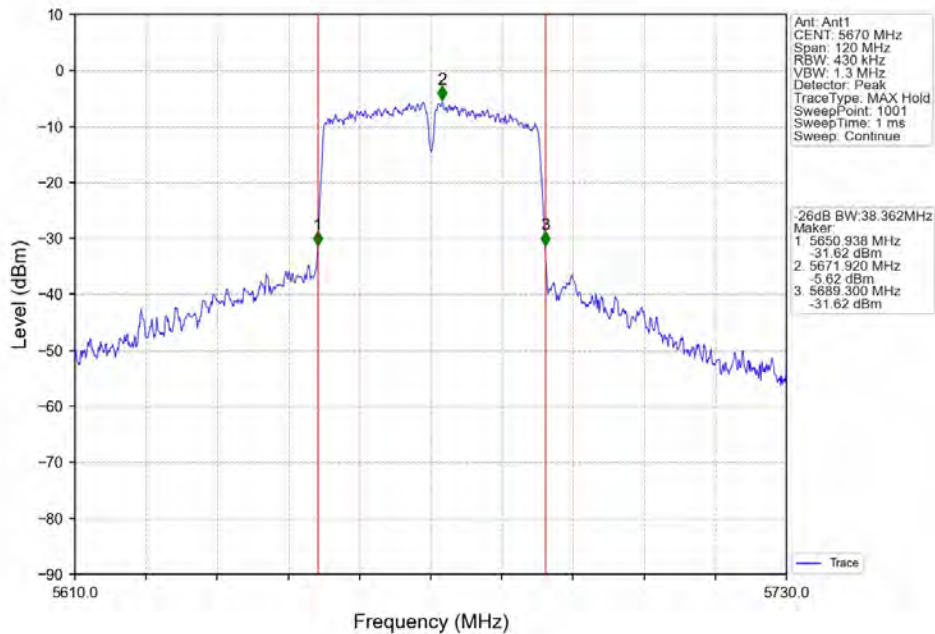
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802.11n(HT40)_HCH_5670MHz_Ant1_NTNV



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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	11.98	<=23.98	Pass
		5200	10.99	<=23.98	Pass
		5240	9.65	<=23.98	Pass
		5260	9.04	<=23.77	Pass
		5300	8.12	<=23.62	Pass
		5320	7.96	<=23.6	Pass
		5500	8.66	<=23.63	Pass
		5580	7.41	<=23.55	Pass
		5700	4.65	<=23.53	Pass
		5745	3.81	<=30	Pass
		5785	3.11	<=30	Pass
		5825	3.40	<=30	Pass
802.11n (HT20)	SISO	5180	11.39	<=23.98	Pass
		5200	10.48	<=23.98	Pass
		5240	9.37	<=23.98	Pass
		5260	8.69	<=23.82	Pass
		5300	7.85	<=23.8	Pass
		5320	7.76	<=23.8	Pass
		5500	8.58	<=23.82	Pass
		5580	7.26	<=23.78	Pass
		5700	4.40	<=23.8	Pass
		5745	3.49	<=30	Pass
		5785	2.79	<=30	Pass
		5825	3.11	<=30	Pass
802.11n (HT40)	SISO	5190	10.33	<=23.98	Pass
		5230	9.35	<=23.98	Pass
		5270	8.35	<=23.98	Pass
		5310	7.78	<=23.98	Pass
		5510	8.42	<=23.98	Pass
		5550	7.45	<=23.98	Pass



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		5670	4.85	≤ 23.98	Pass
		5755	3.25	≤ 30	Pass
		5795	2.75	≤ 30	Pass

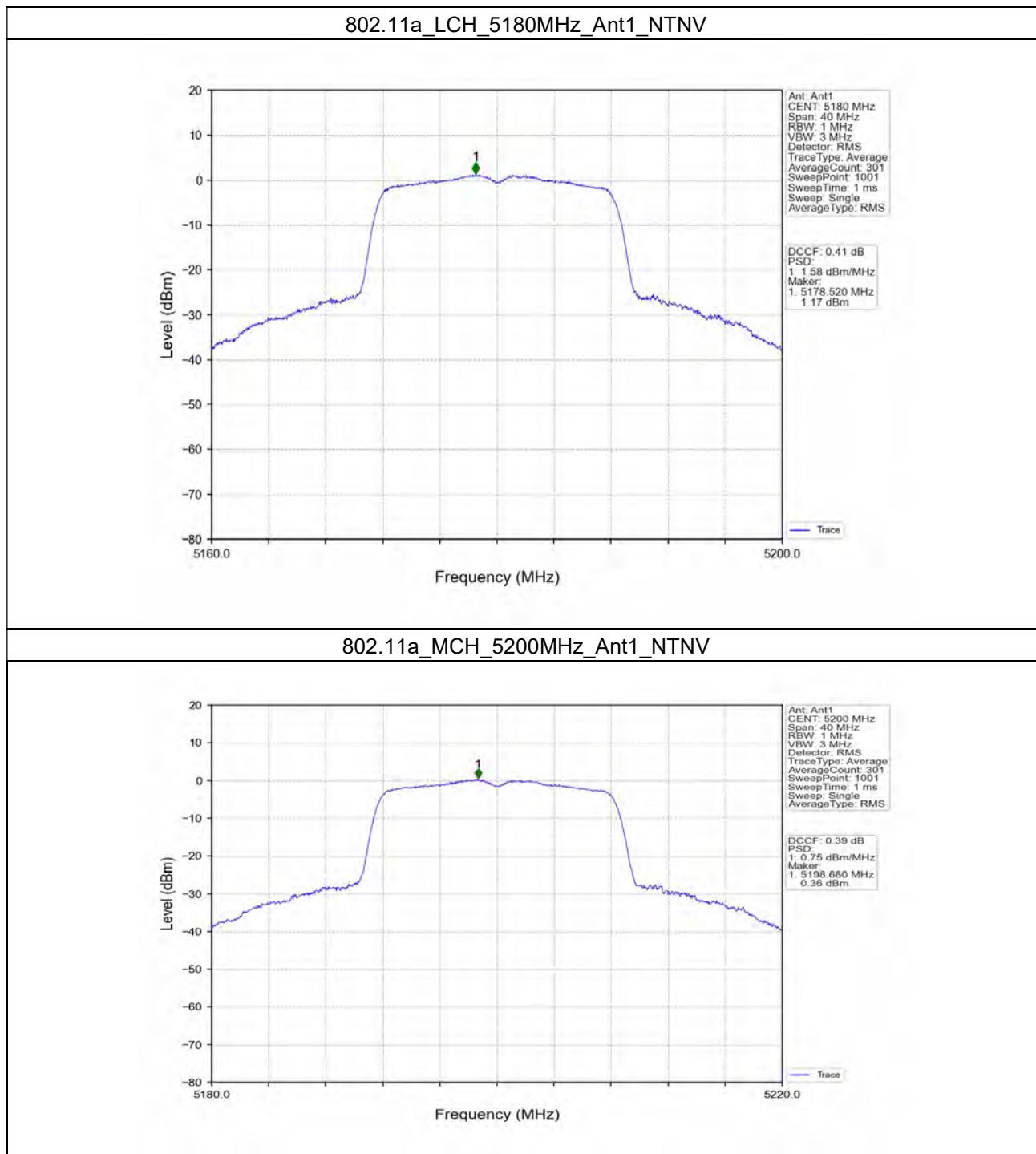
4. Maximum Power Spectral Density

4.1 PSD

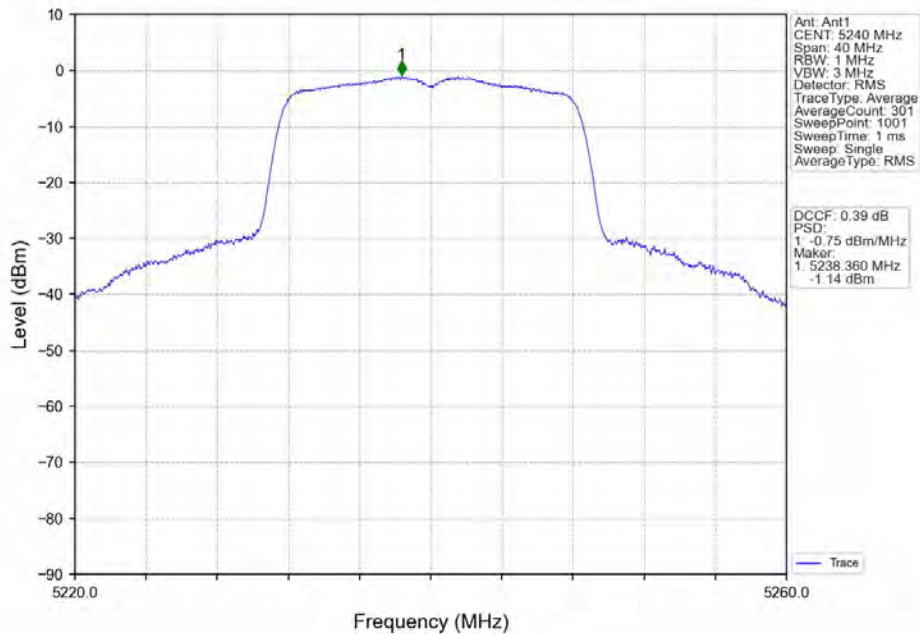
4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	1.58	≤ 11	Pass
		5200	0.75	≤ 11	Pass
		5240	-0.75	≤ 11	Pass
		5260	-1.32	≤ 11	Pass
		5300	-2.27	≤ 11	Pass
		5320	-2.27	≤ 11	Pass
		5500	-1.67	≤ 11	Pass
		5580	-2.86	≤ 11	Pass
		5700	-5.75	≤ 11	Pass
802.11n (HT20)	SISO	5180	0.71	≤ 11	Pass
		5200	-0.12	≤ 11	Pass
		5240	-1.19	≤ 11	Pass
		5260	-2.05	≤ 11	Pass
		5300	-2.75	≤ 11	Pass
		5320	-2.94	≤ 11	Pass
		5500	-2.12	≤ 11	Pass
		5580	-3.35	≤ 11	Pass
		5700	-6.13	≤ 11	Pass
802.11n (HT40)	SISO	5190	-3.38	≤ 11	Pass
		5230	-4.49	≤ 11	Pass
		5270	-5.25	≤ 11	Pass
		5310	-6.00	≤ 11	Pass
		5510	-5.26	≤ 11	Pass
		5550	-6.42	≤ 11	Pass
		5670	-8.85	≤ 11	Pass

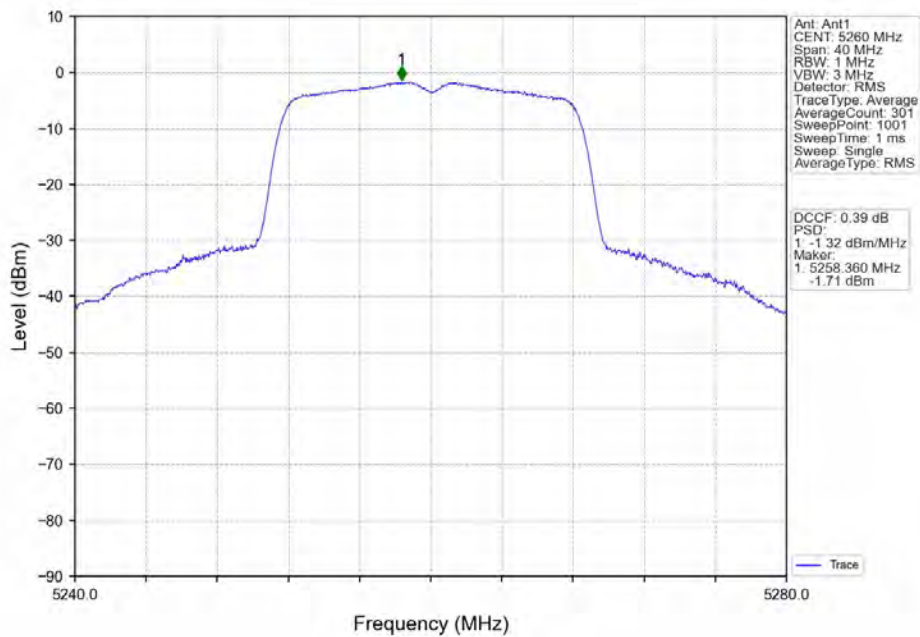
4.1.2 Test Graph



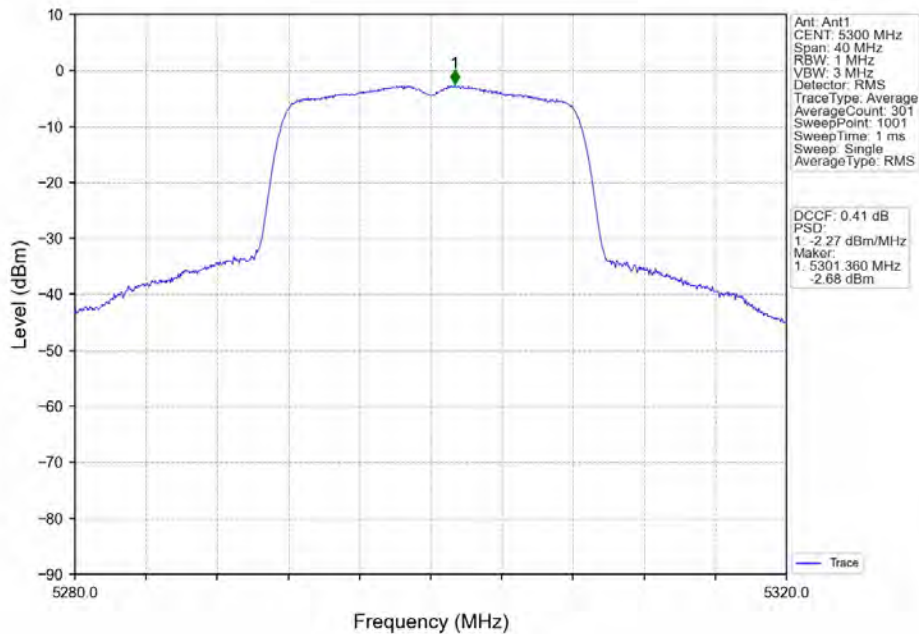
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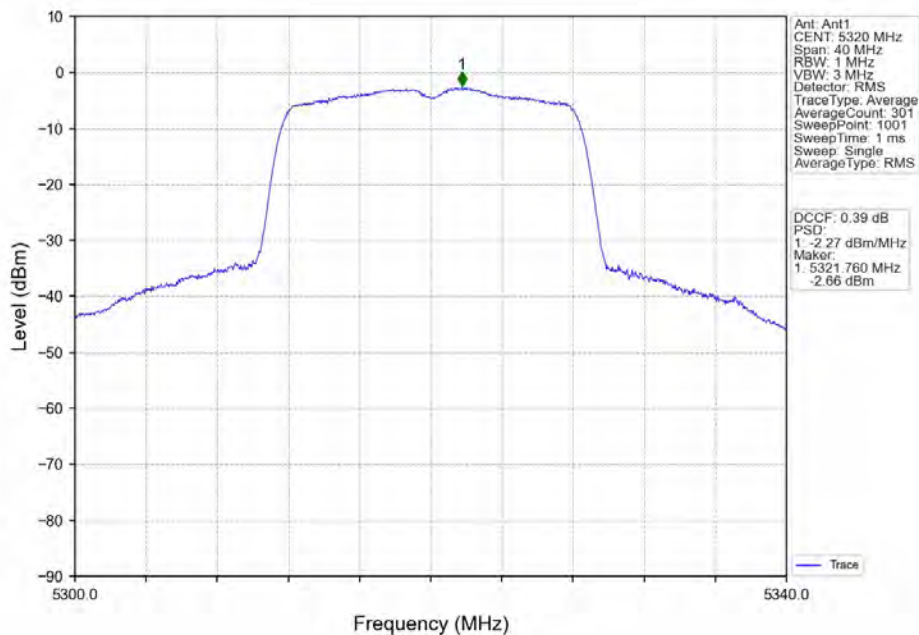
802.11a_LCH_5260MHz_Ant1_NTNV



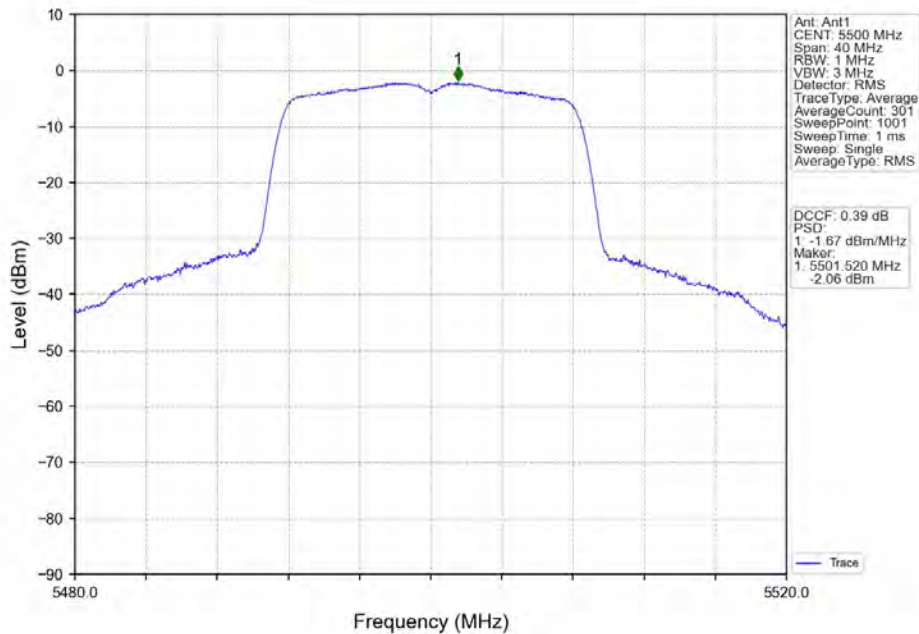
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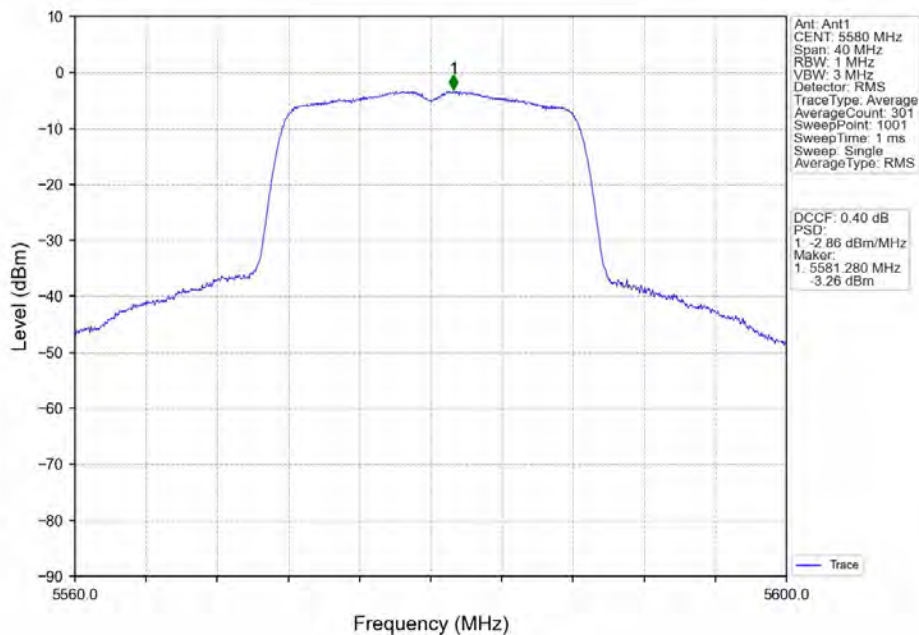
802.11a_HCH_5320MHz_Ant1_NTNV



802.11a_LCH_5500MHz_Ant1_NTNV



802.11a_MCH_5580MHz_Ant1_NTNV



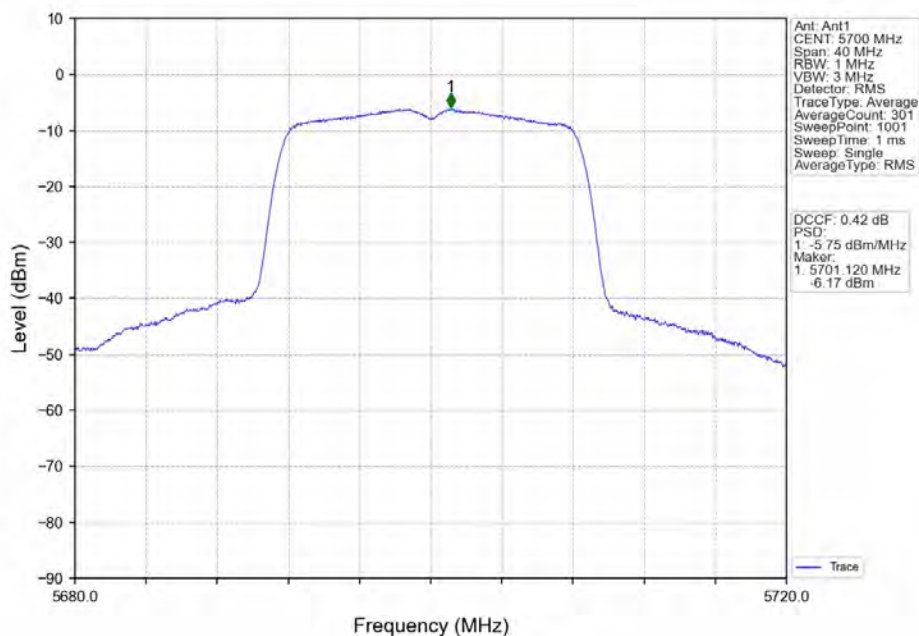
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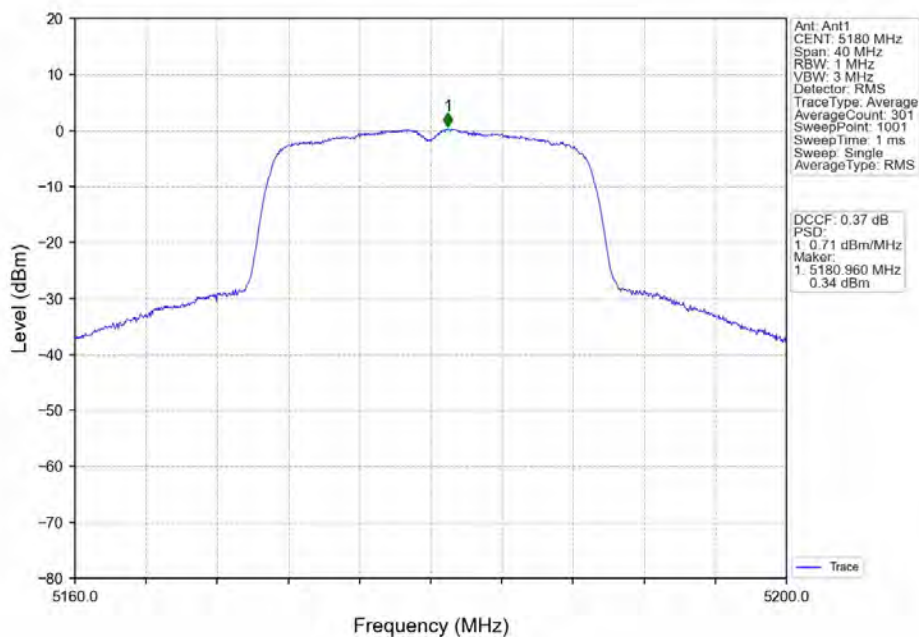
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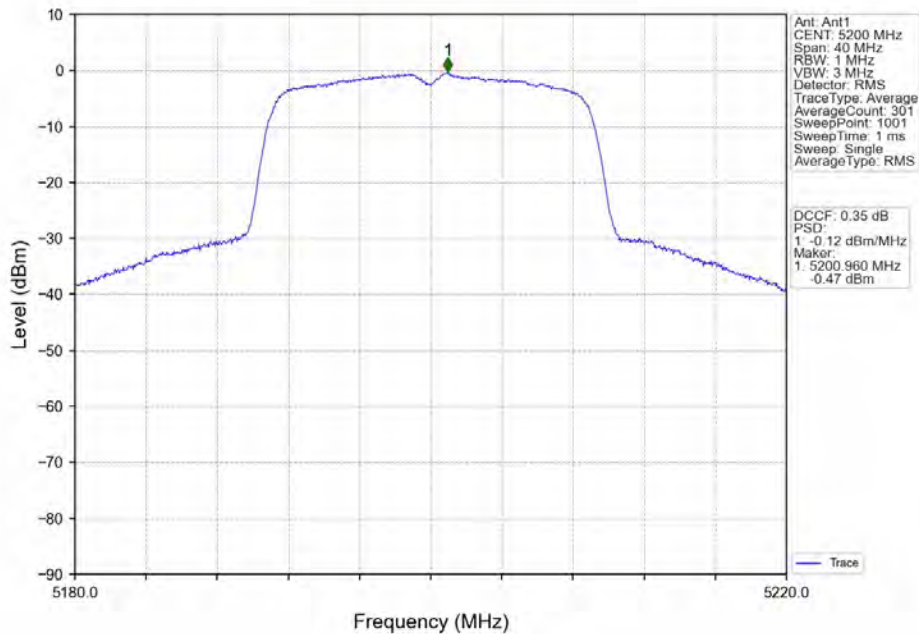
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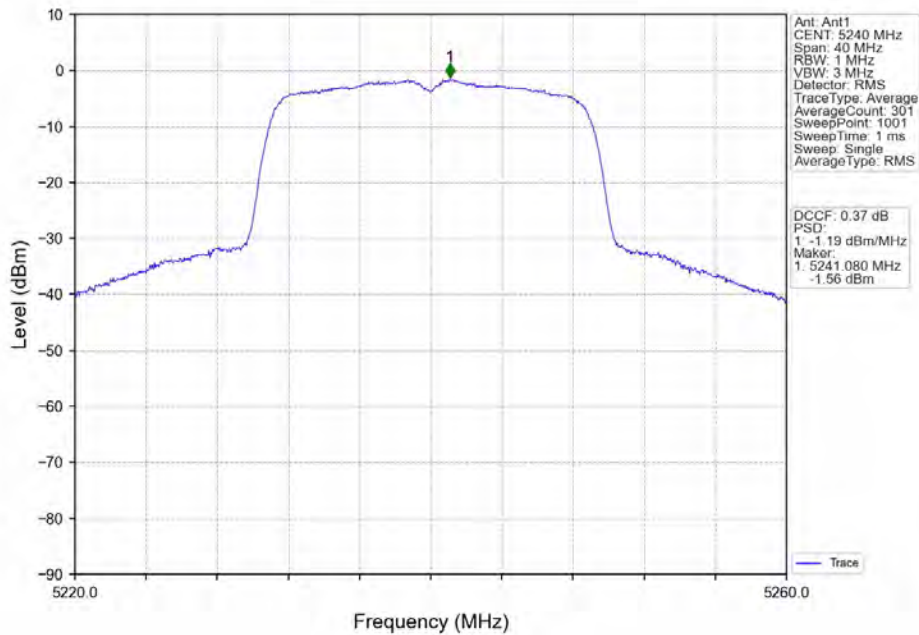
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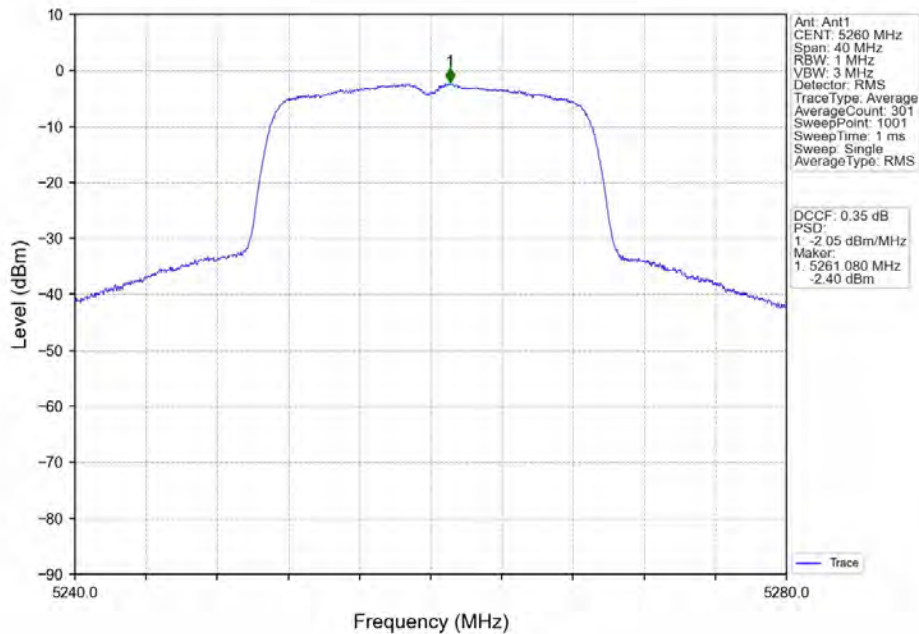
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



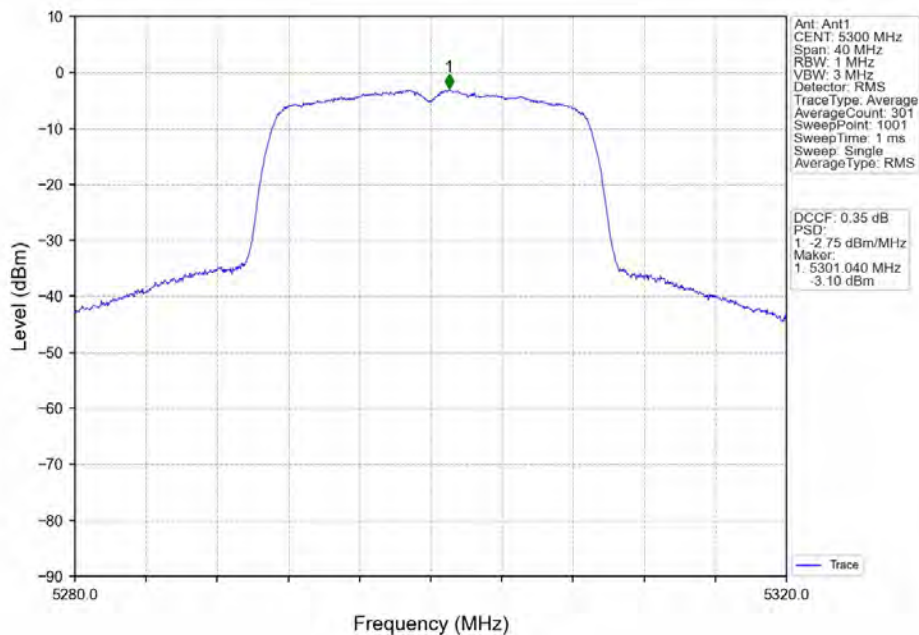
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



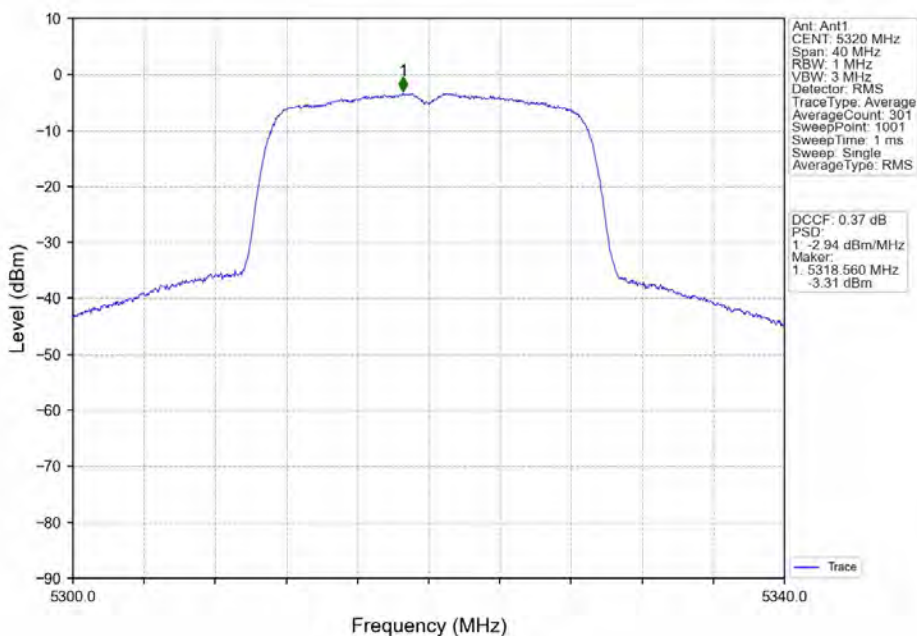
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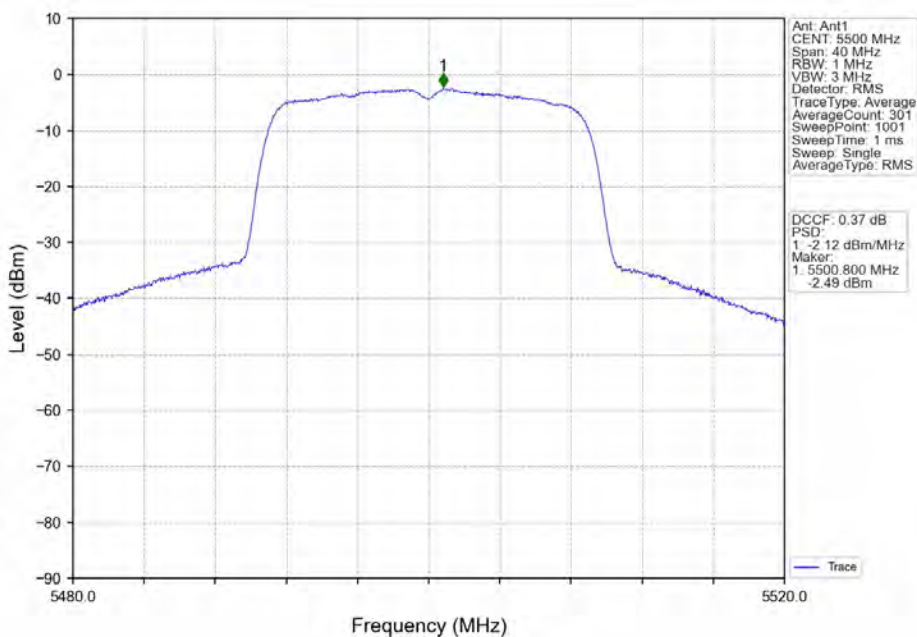
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802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



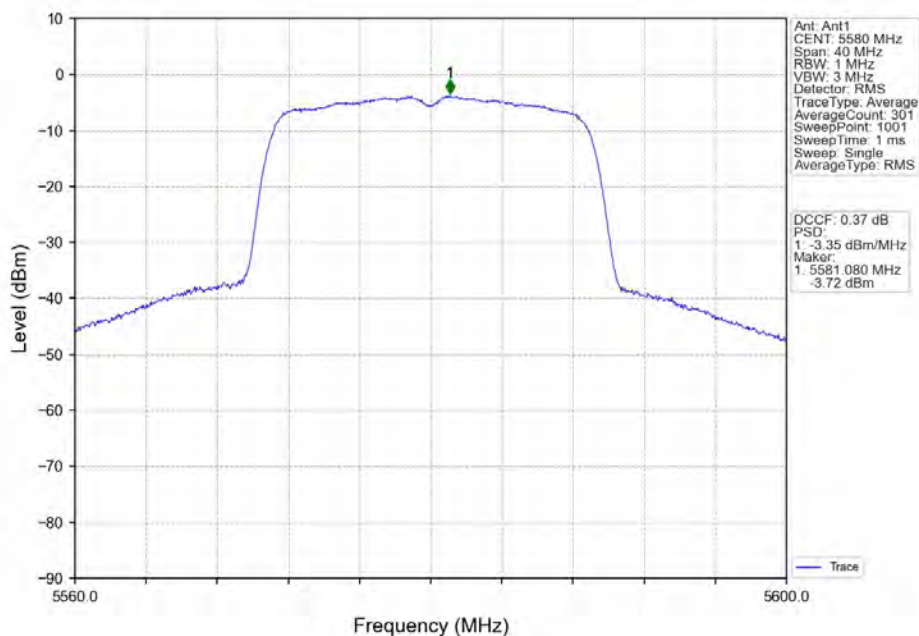
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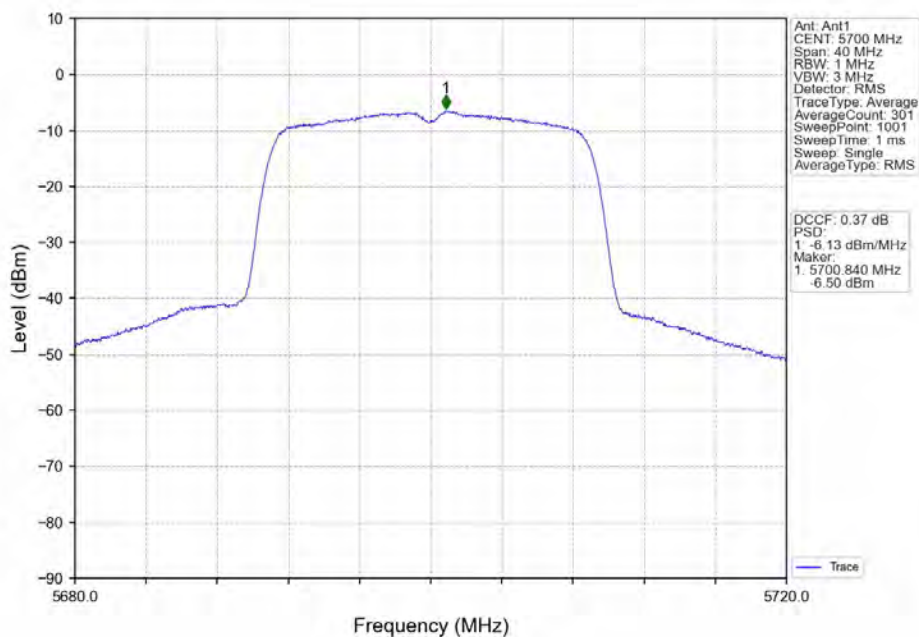
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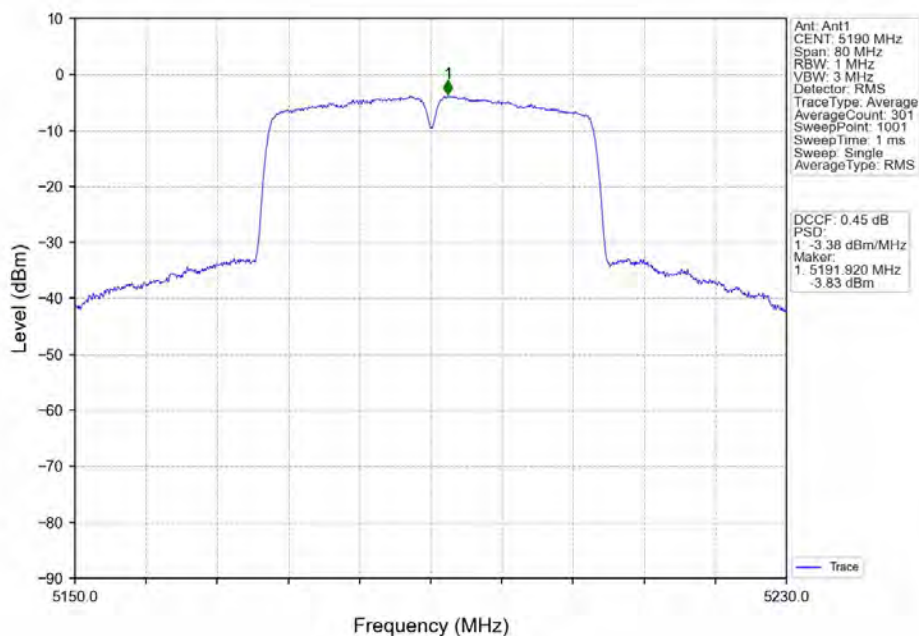
802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



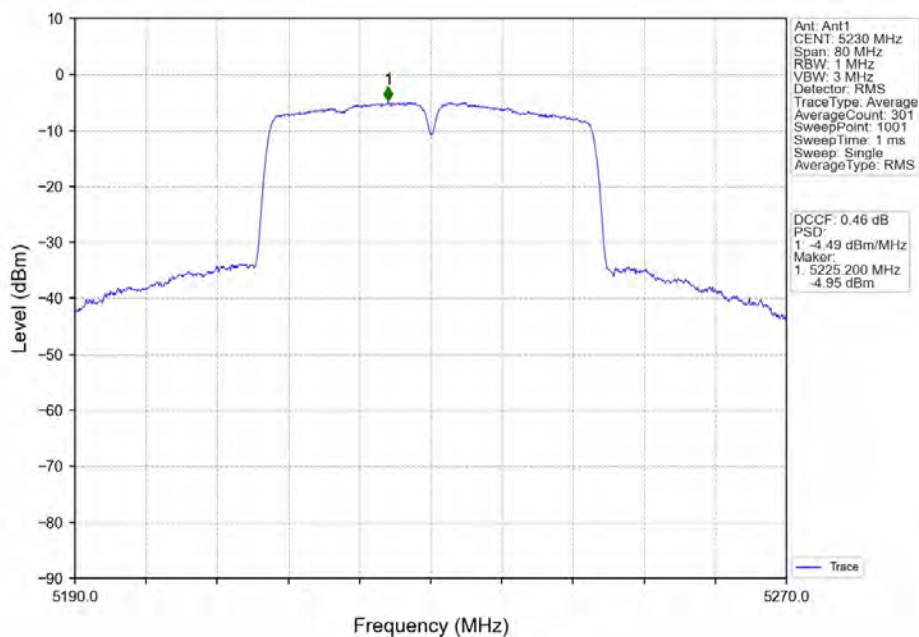
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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



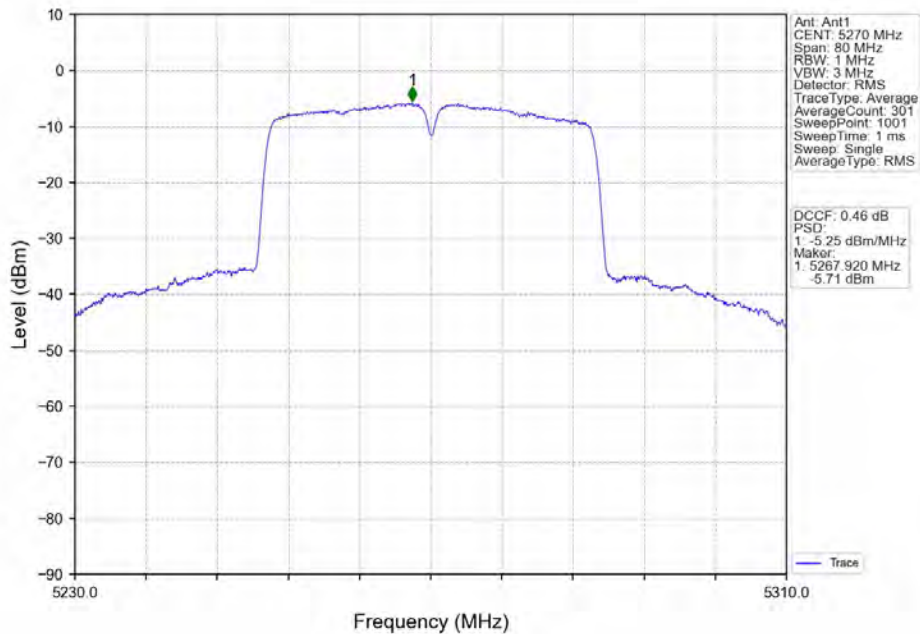
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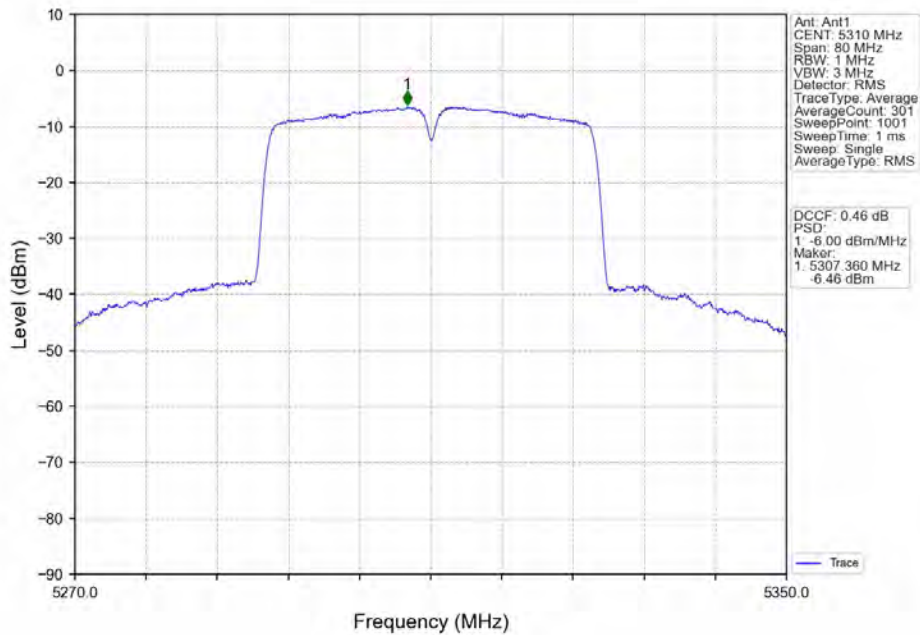
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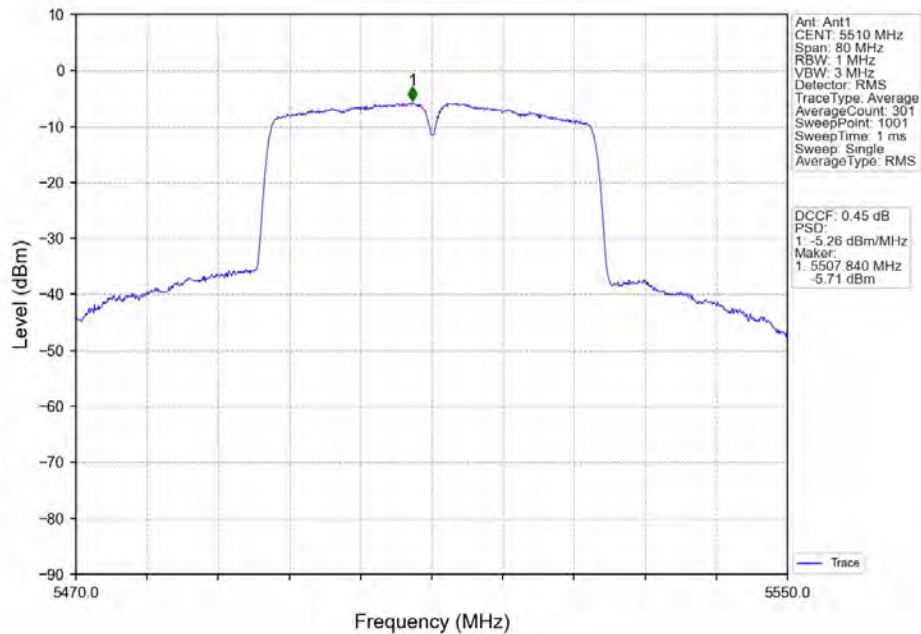
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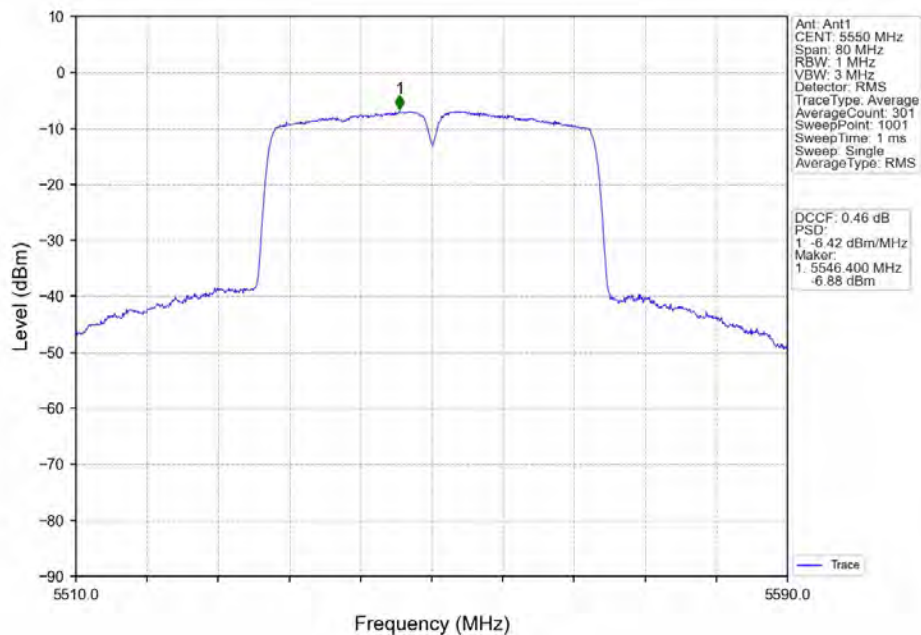
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802.11n(HT40)_LCH_5510MHz_Ant1_NTNV



802.11n(HT40)_MCH_5550MHz_Ant1_NTNV



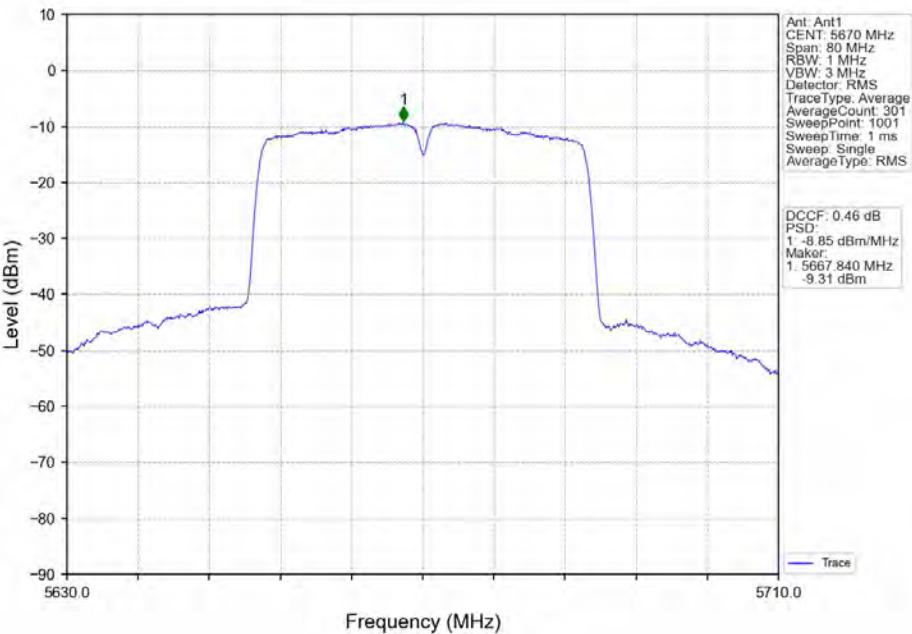
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413005

Page: 274 of 293

802.11n(HT40)_HCH_5670MHz_Ant1_NTNV



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SZEMC-TRF-01 Rev. A/1

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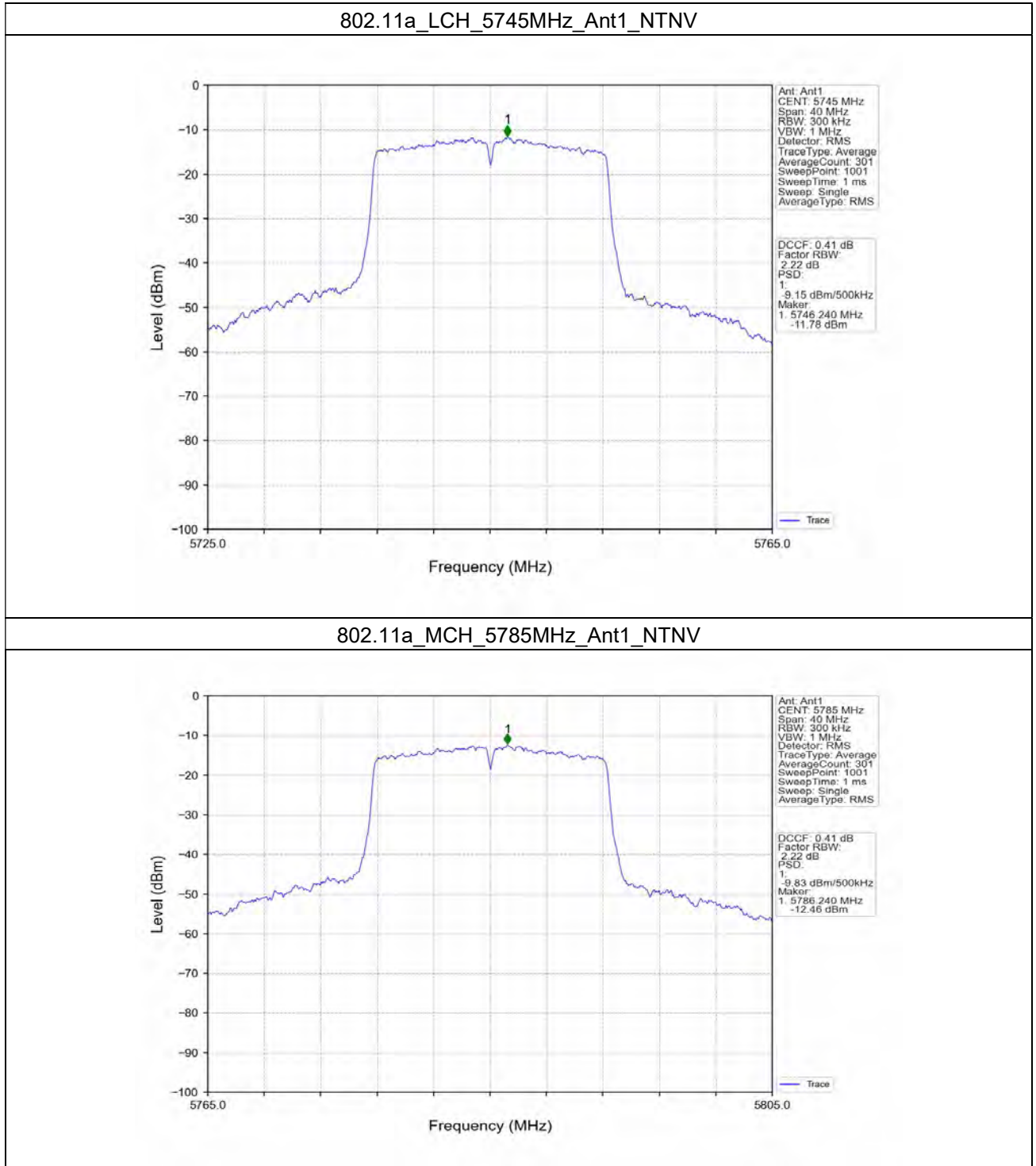
Page: 275 of 293

4.2 PSD-Band3

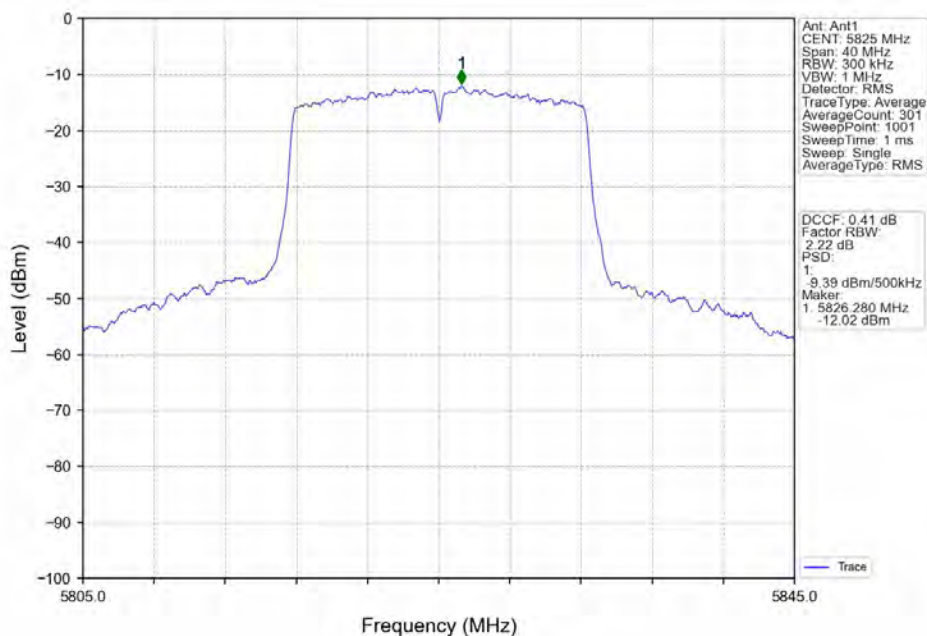
4.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	-9.15	<=30	Pass
		5785	-9.83	<=30	Pass
		5825	-9.39	<=30	Pass
802.11n (HT20)	SISO	5745	-9.62	<=30	Pass
		5785	-10.25	<=30	Pass
		5825	-10.10	<=30	Pass
802.11n (HT40)	SISO	5755	-12.56	<=30	Pass
		5795	-13.45	<=30	Pass

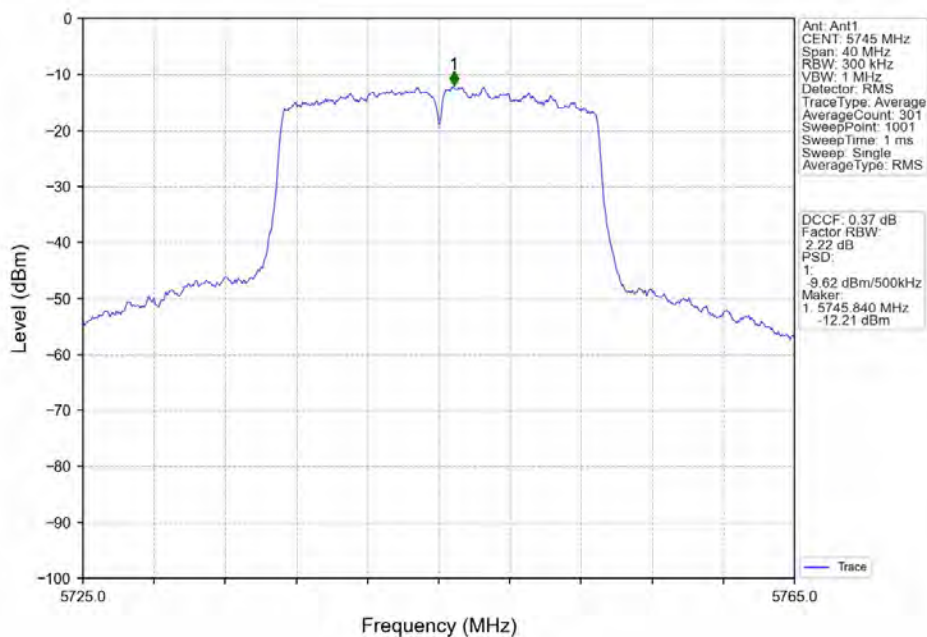
4.2.2 Test Graph



802.11a_HCH_5825MHz_Ant1_NTNV



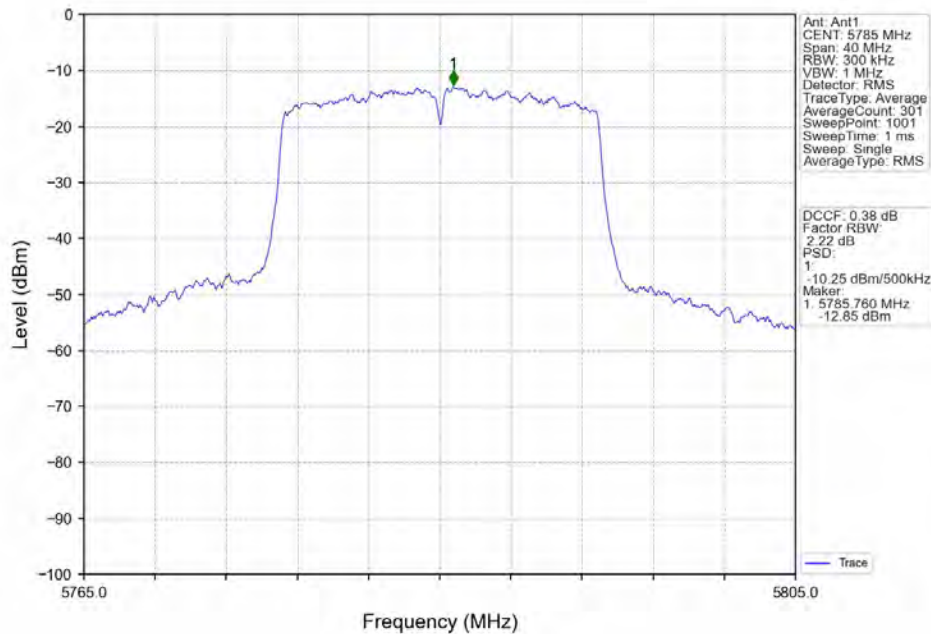
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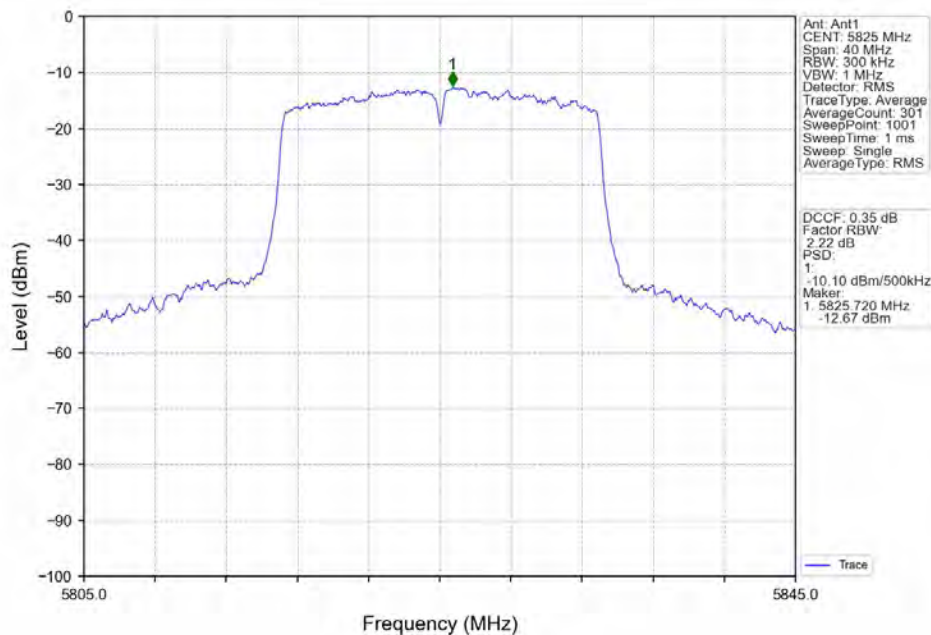
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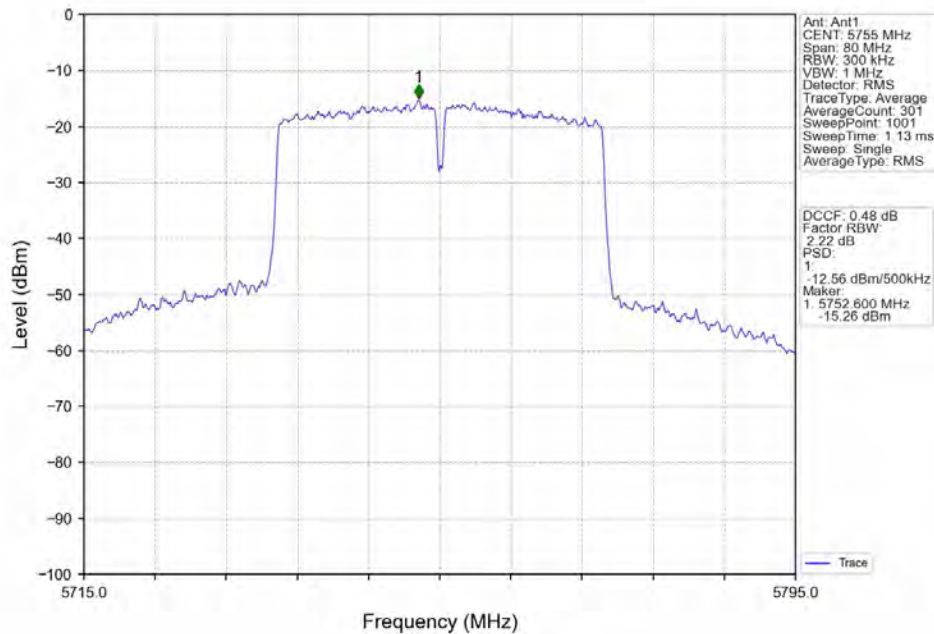
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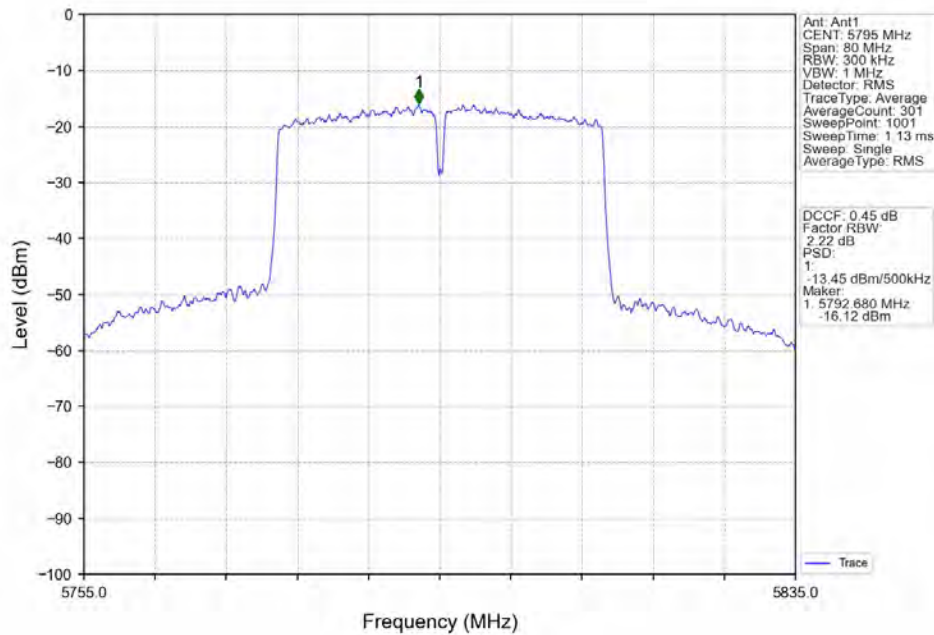
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



5. Frequency Stability

5.1 Ant1

5.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
802.11a	SISO	5180	20	102	5180.020	5150 to 5250	Pass
				120	5180.020	5150 to 5250	Pass
				138	5180.020	5150 to 5250	Pass
			-30	120	5180.020	5150 to 5250	Pass
				120	5180.020	5150 to 5250	Pass
			-20	120	5180.020	5150 to 5250	Pass
				120	5180.020	5150 to 5250	Pass
			-10	120	5180.020	5150 to 5250	Pass
				120	5180.020	5150 to 5250	Pass
			0	120	5180.020	5150 to 5250	Pass
				120	5180.020	5150 to 5250	Pass
			10	120	5180.020	5150 to 5250	Pass
				120	5180.020	5150 to 5250	Pass
			30	120	5180.020	5150 to 5250	Pass
				120	5180.020	5150 to 5250	Pass
			40	120	5180.040	5150 to 5250	Pass
				120	5180.040	5150 to 5250	Pass
			50	120	5180.020	5150 to 5250	Pass
				120	5180.020	5150 to 5250	Pass
		5200	20	102	5200.020	5150 to 5250	Pass
				120	5200.020	5150 to 5250	Pass
				138	5200.020	5150 to 5250	Pass
			-30	120	5200.020	5150 to 5250	Pass
				120	5200.020	5150 to 5250	Pass
			-20	120	5200.040	5150 to 5250	Pass
				120	5200.040	5150 to 5250	Pass
			-10	120	5200.020	5150 to 5250	Pass
				120	5200.020	5150 to 5250	Pass
			0	120	5200.020	5150 to 5250	Pass
				120	5200.020	5150 to 5250	Pass
			10	120	5200.040	5150 to 5250	Pass
				120	5200.040	5150 to 5250	Pass
			30	120	5200.020	5150 to 5250	Pass
				120	5200.020	5150 to 5250	Pass
			40	120	5200.040	5150 to 5250	Pass
				120	5200.040	5150 to 5250	Pass
			50	120	5200.040	5150 to 5250	Pass
				120	5200.040	5150 to 5250	Pass
		5240	20	102	5240.020	5150 to 5250	Pass
				120	5240.040	5150 to 5250	Pass
				138	5240.040	5150 to 5250	Pass
			-30	120	5240.040	5150 to 5250	Pass
				120	5240.040	5150 to 5250	Pass
			-20	120	5240.040	5150 to 5250	Pass
				120	5240.040	5150 to 5250	Pass
			-10	120	5240.040	5150 to 5250	Pass
				120	5240.040	5150 to 5250	Pass
			0	120	5240.040	5150 to 5250	Pass
				120	5240.040	5150 to 5250	Pass
			10	120	5240.040	5150 to 5250	Pass
				120	5240.040	5150 to 5250	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413005

Page: 281 of 293

			30	120	5240.020	5150 to 5250	Pass
			40	120	5240.040	5150 to 5250	Pass
			50	120	5240.020	5150 to 5250	Pass
		5260	20	102	5260.040	5250 to 5350	Pass
				120	5260.040	5250 to 5350	Pass
				138	5260.040	5250 to 5350	Pass
			-30	120	5260.040	5250 to 5350	Pass
			-20	120	5260.040	5250 to 5350	Pass
			-10	120	5260.040	5250 to 5350	Pass
			0	120	5260.040	5250 to 5350	Pass
			10	120	5260.040	5250 to 5350	Pass
			30	120	5260.040	5250 to 5350	Pass
			40	120	5260.040	5250 to 5350	Pass
			50	120	5260.040	5250 to 5350	Pass
		5300	20	102	5300.040	5250 to 5350	Pass
				120	5300.040	5250 to 5350	Pass
				138	5300.040	5250 to 5350	Pass
			-30	120	5300.040	5250 to 5350	Pass
			-20	120	5300.040	5250 to 5350	Pass
			-10	120	5300.040	5250 to 5350	Pass
			0	120	5300.040	5250 to 5350	Pass
			10	120	5300.040	5250 to 5350	Pass
			30	120	5300.040	5250 to 5350	Pass
			40	120	5300.040	5250 to 5350	Pass
			50	120	5300.040	5250 to 5350	Pass
		5320	20	102	5320.040	5250 to 5350	Pass
				120	5320.040	5250 to 5350	Pass
				138	5320.040	5250 to 5350	Pass
			-30	120	5320.040	5250 to 5350	Pass
			-20	120	5320.040	5250 to 5350	Pass
			-10	120	5320.040	5250 to 5350	Pass
			0	120	5320.040	5250 to 5350	Pass
			10	120	5320.040	5250 to 5350	Pass
			30	120	5320.040	5250 to 5350	Pass
			40	120	5320.040	5250 to 5350	Pass
			50	120	5320.040	5250 to 5350	Pass
		5500	20	102	5500.040	5470 to 5725	Pass
				120	5500.040	5470 to 5725	Pass
				138	5500.020	5470 to 5725	Pass
			-30	120	5500.020	5470 to 5725	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413005

Page: 282 of 293

			-20	120	5500.020	5470 to 5725	Pass
			-10	120	5500.040	5470 to 5725	Pass
			0	120	5500.040	5470 to 5725	Pass
			10	120	5500.020	5470 to 5725	Pass
			30	120	5500.040	5470 to 5725	Pass
			40	120	5500.040	5470 to 5725	Pass
			50	120	5500.040	5470 to 5725	Pass
		5580	20	102	5580.040	5470 to 5725	Pass
				120	5580.040	5470 to 5725	Pass
				138	5580.020	5470 to 5725	Pass
			-30	120	5580.040	5470 to 5725	Pass
			-20	120	5580.040	5470 to 5725	Pass
			-10	120	5580.040	5470 to 5725	Pass
			0	120	5580.040	5470 to 5725	Pass
			10	120	5580.040	5470 to 5725	Pass
			30	120	5580.040	5470 to 5725	Pass
			40	120	5580.040	5470 to 5725	Pass
			50	120	5580.040	5470 to 5725	Pass
		5700	20	102	5700.040	5470 to 5725	Pass
				120	5700.020	5470 to 5725	Pass
				138	5700.040	5470 to 5725	Pass
			-30	120	5700.040	5470 to 5725	Pass
			-20	120	5700.040	5470 to 5725	Pass
			-10	120	5700.040	5470 to 5725	Pass
			0	120	5700.040	5470 to 5725	Pass
			10	120	5700.040	5470 to 5725	Pass
			30	120	5700.040	5470 to 5725	Pass
			40	120	5700.020	5470 to 5725	Pass
			50	120	5700.040	5470 to 5725	Pass
		5745	20	102	5745.040	5725 to 5850	Pass
				120	5745.040	5725 to 5850	Pass
				138	5745.040	5725 to 5850	Pass
			-30	120	5745.040	5725 to 5850	Pass
			-20	120	5745.040	5725 to 5850	Pass
			-10	120	5745.040	5725 to 5850	Pass
			0	120	5745.040	5725 to 5850	Pass
			10	120	5745.040	5725 to 5850	Pass
			30	120	5745.040	5725 to 5850	Pass
			40	120	5745.040	5725 to 5850	Pass
			50	120	5745.040	5725 to 5850	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413005

Page: 283 of 293

		5785	20	102	5785.040	5725 to 5850	Pass
				120	5785.040	5725 to 5850	Pass
				138	5785.040	5725 to 5850	Pass
			-30	120	5785.040	5725 to 5850	Pass
			-20	120	5785.040	5725 to 5850	Pass
			-10	120	5785.040	5725 to 5850	Pass
			0	120	5785.040	5725 to 5850	Pass
			10	120	5785.040	5725 to 5850	Pass
			30	120	5785.040	5725 to 5850	Pass
			40	120	5785.040	5725 to 5850	Pass
			50	120	5785.040	5725 to 5850	Pass
		5825	20	102	5825.040	5725 to 5850	Pass
				120	5825.040	5725 to 5850	Pass
				138	5825.040	5725 to 5850	Pass
			-30	120	5825.040	5725 to 5850	Pass
			-20	120	5825.040	5725 to 5850	Pass
			-10	120	5825.040	5725 to 5850	Pass
			0	120	5825.040	5725 to 5850	Pass
			10	120	5825.040	5725 to 5850	Pass
			30	120	5825.040	5725 to 5850	Pass
			40	120	5825.040	5725 to 5850	Pass
			50	120	5825.040	5725 to 5850	Pass

802.11n (HT20)	SISO	5180	20	102	5180.060	5150 to 5250	Pass
				120	5180.080	5150 to 5250	Pass
				138	5180.080	5150 to 5250	Pass
			-30	120	5180.040	5150 to 5250	Pass
			-20	120	5180.060	5150 to 5250	Pass
			-10	120	5180.060	5150 to 5250	Pass
			0	120	5180.080	5150 to 5250	Pass
			10	120	5180.060	5150 to 5250	Pass
			30	120	5180.060	5150 to 5250	Pass
			40	120	5180.040	5150 to 5250	Pass
			50	120	5180.060	5150 to 5250	Pass
		5200	20	102	5200.080	5150 to 5250	Pass
				120	5200.080	5150 to 5250	Pass
				138	5200.080	5150 to 5250	Pass
			-30	120	5200.080	5150 to 5250	Pass
			-20	120	5200.120	5150 to 5250	Pass
			-10	120	5200.100	5150 to 5250	Pass
			0	120	5200.100	5150 to 5250	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413005

Page: 284 of 293

			10	120	5200.080	5150 to 5250	Pass
			30	120	5200.080	5150 to 5250	Pass
			40	120	5200.080	5150 to 5250	Pass
			50	120	5200.080	5150 to 5250	Pass
	5240	20		102	5240.060	5150 to 5250	Pass
				120	5240.060	5150 to 5250	Pass
				138	5240.060	5150 to 5250	Pass
		-30		120	5240.080	5150 to 5250	Pass
				120	5240.060	5150 to 5250	Pass
				120	5240.100	5150 to 5250	Pass
		0		120	5240.080	5150 to 5250	Pass
				120	5240.060	5150 to 5250	Pass
				120	5240.040	5150 to 5250	Pass
		50		120	5240.060	5150 to 5250	Pass
				120	5240.060	5150 to 5250	Pass
				120	5240.060	5150 to 5250	Pass
	5260	20		102	5260.080	5250 to 5350	Pass
				120	5260.080	5250 to 5350	Pass
				138	5260.100	5250 to 5350	Pass
		-30		120	5260.100	5250 to 5350	Pass
				120	5260.060	5250 to 5350	Pass
				120	5260.060	5250 to 5350	Pass
		0		120	5260.080	5250 to 5350	Pass
				120	5260.080	5250 to 5350	Pass
				120	5260.080	5250 to 5350	Pass
		40		120	5260.040	5250 to 5350	Pass
				120	5260.080	5250 to 5350	Pass
				120	5260.080	5250 to 5350	Pass
	5300	20		102	5300.080	5250 to 5350	Pass
				120	5300.100	5250 to 5350	Pass
				138	5300.100	5250 to 5350	Pass
		-30		120	5300.060	5250 to 5350	Pass
				120	5300.080	5250 to 5350	Pass
				120	5300.100	5250 to 5350	Pass
		0		120	5300.060	5250 to 5350	Pass
				120	5300.080	5250 to 5350	Pass
				120	5300.080	5250 to 5350	Pass
		40		120	5300.080	5250 to 5350	Pass
				120	5300.080	5250 to 5350	Pass
				120	5300.060	5250 to 5350	Pass
	5320	20		102	5320.100	5250 to 5350	Pass
				120	5320.060	5250 to 5350	Pass
				138	5320.080	5250 to 5350	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413005

Page: 285 of 293

			-30	120	5320.060	5250 to 5350	Pass
			-20	120	5320.080	5250 to 5350	Pass
			-10	120	5320.100	5250 to 5350	Pass
			0	120	5320.100	5250 to 5350	Pass
			10	120	5320.060	5250 to 5350	Pass
			30	120	5320.060	5250 to 5350	Pass
			40	120	5320.100	5250 to 5350	Pass
			50	120	5320.100	5250 to 5350	Pass
		5500	20	102	5500.080	5470 to 5725	Pass
				120	5500.100	5470 to 5725	Pass
				138	5500.080	5470 to 5725	Pass
			-30	120	5500.080	5470 to 5725	Pass
			-20	120	5500.080	5470 to 5725	Pass
			-10	120	5500.080	5470 to 5725	Pass
			0	120	5500.060	5470 to 5725	Pass
			10	120	5500.080	5470 to 5725	Pass
			30	120	5500.060	5470 to 5725	Pass
			40	120	5500.040	5470 to 5725	Pass
			50	120	5500.040	5470 to 5725	Pass
		5580	20	102	5580.040	5470 to 5725	Pass
				120	5580.060	5470 to 5725	Pass
				138	5580.080	5470 to 5725	Pass
			-30	120	5580.080	5470 to 5725	Pass
			-20	120	5580.100	5470 to 5725	Pass
			-10	120	5580.080	5470 to 5725	Pass
			0	120	5580.100	5470 to 5725	Pass
			10	120	5580.080	5470 to 5725	Pass
			30	120	5580.080	5470 to 5725	Pass
			40	120	5580.100	5470 to 5725	Pass
			50	120	5580.080	5470 to 5725	Pass
		5700	20	102	5700.100	5470 to 5725	Pass
				120	5700.080	5470 to 5725	Pass
				138	5700.060	5470 to 5725	Pass
			-30	120	5700.060	5470 to 5725	Pass
			-20	120	5700.060	5470 to 5725	Pass
			-10	120	5700.080	5470 to 5725	Pass
			0	120	5700.080	5470 to 5725	Pass
			10	120	5700.100	5470 to 5725	Pass
			30	120	5700.080	5470 to 5725	Pass
			40	120	5700.080	5470 to 5725	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413005

Page: 286 of 293

		5745	50	120	5700.080	5470 to 5725	Pass
			20	102	5745.100	5725 to 5850	Pass
				120	5745.080	5725 to 5850	Pass
				138	5745.100	5725 to 5850	Pass
			-30	120	5745.080	5725 to 5850	Pass
			-20	120	5745.080	5725 to 5850	Pass
			-10	120	5745.080	5725 to 5850	Pass
			0	120	5745.080	5725 to 5850	Pass
			10	120	5745.080	5725 to 5850	Pass
			30	120	5745.040	5725 to 5850	Pass
			40	120	5745.080	5725 to 5850	Pass
			50	120	5745.080	5725 to 5850	Pass
		5785	20	102	5785.080	5725 to 5850	Pass
				120	5785.060	5725 to 5850	Pass
				138	5785.080	5725 to 5850	Pass
			-30	120	5785.100	5725 to 5850	Pass
			-20	120	5785.080	5725 to 5850	Pass
			-10	120	5785.080	5725 to 5850	Pass
			0	120	5785.100	5725 to 5850	Pass
			10	120	5785.080	5725 to 5850	Pass
			30	120	5785.080	5725 to 5850	Pass
			40	120	5785.040	5725 to 5850	Pass
			50	120	5785.080	5725 to 5850	Pass
		5825	20	102	5825.060	5725 to 5850	Pass
				120	5825.100	5725 to 5850	Pass
				138	5825.080	5725 to 5850	Pass
			-30	120	5825.060	5725 to 5850	Pass
			-20	120	5825.080	5725 to 5850	Pass
			-10	120	5825.100	5725 to 5850	Pass
			0	120	5825.080	5725 to 5850	Pass
			10	120	5825.080	5725 to 5850	Pass
			30	120	5825.100	5725 to 5850	Pass
			40	120	5825.100	5725 to 5850	Pass
			50	120	5825.100	5725 to 5850	Pass
802.11n (HT40)	SISO	5190	20	102	5190.080	5150 to 5250	Pass
				120	5190.040	5150 to 5250	Pass
				138	5190.040	5150 to 5250	Pass
			-30	120	5190.080	5150 to 5250	Pass
			-20	120	5190.080	5150 to 5250	Pass
			-10	120	5190.080	5150 to 5250	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413005

Page: 287 of 293

			0	120	5190.040	5150 to 5250	Pass
			10	120	5190.080	5150 to 5250	Pass
			30	120	5190.080	5150 to 5250	Pass
			40	120	5190.080	5150 to 5250	Pass
			50	120	5190.080	5150 to 5250	Pass
		5230	20	102	5230.040	5150 to 5250	Pass
				120	5230.040	5150 to 5250	Pass
				138	5230.040	5150 to 5250	Pass
			-30	120	5230.040	5150 to 5250	Pass
			-20	120	5230.040	5150 to 5250	Pass
			-10	120	5230.040	5150 to 5250	Pass
			0	120	5230.040	5150 to 5250	Pass
			10	120	5230.040	5150 to 5250	Pass
			30	120	5230.040	5150 to 5250	Pass
			40	120	5230.040	5150 to 5250	Pass
			50	120	5230.040	5150 to 5250	Pass
		5270	20	102	5270.040	5250 to 5350	Pass
				120	5270.040	5250 to 5350	Pass
				138	5270.040	5250 to 5350	Pass
			-30	120	5270.040	5250 to 5350	Pass
			-20	120	5270.040	5250 to 5350	Pass
			-10	120	5270.040	5250 to 5350	Pass
			0	120	5270.040	5250 to 5350	Pass
			10	120	5270.040	5250 to 5350	Pass
			30	120	5270.040	5250 to 5350	Pass
			40	120	5270.040	5250 to 5350	Pass
			50	120	5270.040	5250 to 5350	Pass
		5310	20	102	5310.080	5250 to 5350	Pass
				120	5310.080	5250 to 5350	Pass
				138	5310.080	5250 to 5350	Pass
			-30	120	5310.080	5250 to 5350	Pass
			-20	120	5310.080	5250 to 5350	Pass
			-10	120	5310.080	5250 to 5350	Pass
			0	120	5310.080	5250 to 5350	Pass
			10	120	5310.080	5250 to 5350	Pass
			30	120	5310.080	5250 to 5350	Pass
			40	120	5310.080	5250 to 5350	Pass
			50	120	5310.080	5250 to 5350	Pass
		5510	20	102	5510.040	5470 to 5725	Pass
				120	5510.040	5470 to 5725	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413005

Page: 288 of 293

				138	5510.040	5470 to 5725	Pass
			-30	120	5510.040	5470 to 5725	Pass
			-20	120	5510.040	5470 to 5725	Pass
			-10	120	5510.040	5470 to 5725	Pass
			0	120	5510.040	5470 to 5725	Pass
			10	120	5510.040	5470 to 5725	Pass
			30	120	5510.040	5470 to 5725	Pass
			40	120	5510.040	5470 to 5725	Pass
			50	120	5510.040	5470 to 5725	Pass
		5550	20	102	5550.040	5470 to 5725	Pass
				120	5550.040	5470 to 5725	Pass
				138	5550.080	5470 to 5725	Pass
			-30	120	5550.040	5470 to 5725	Pass
			-20	120	5550.080	5470 to 5725	Pass
			-10	120	5550.040	5470 to 5725	Pass
			0	120	5550.080	5470 to 5725	Pass
			10	120	5550.040	5470 to 5725	Pass
			30	120	5550.040	5470 to 5725	Pass
			40	120	5550.040	5470 to 5725	Pass
			50	120	5550.080	5470 to 5725	Pass
		5670	20	102	5670.080	5470 to 5725	Pass
				120	5670.040	5470 to 5725	Pass
				138	5670.040	5470 to 5725	Pass
			-30	120	5670.040	5470 to 5725	Pass
			-20	120	5670.040	5470 to 5725	Pass
			-10	120	5670.040	5470 to 5725	Pass
			0	120	5670.040	5470 to 5725	Pass
			10	120	5670.040	5470 to 5725	Pass
			30	120	5670.040	5470 to 5725	Pass
			40	120	5670.040	5470 to 5725	Pass
			50	120	5670.040	5470 to 5725	Pass
		5755	20	102	5755.040	5725 to 5850	Pass
				120	5755.080	5725 to 5850	Pass
				138	5755.040	5725 to 5850	Pass
			-30	120	5755.040	5725 to 5850	Pass
			-20	120	5755.040	5725 to 5850	Pass
			-10	120	5755.040	5725 to 5850	Pass
			0	120	5755.040	5725 to 5850	Pass
			10	120	5755.080	5725 to 5850	Pass
			30	120	5755.040	5725 to 5850	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413005

Page: 289 of 293

		5795	40	120	5755.040	5725 to 5850	Pass
			50	120	5755.040	5725 to 5850	Pass
			20	102	5795.040	5725 to 5850	Pass
				120	5795.040	5725 to 5850	Pass
				138	5795.040	5725 to 5850	Pass
			-30	120	5795.080	5725 to 5850	Pass
			-20	120	5795.040	5725 to 5850	Pass
			-10	120	5795.040	5725 to 5850	Pass
			0	120	5795.080	5725 to 5850	Pass
			10	120	5795.080	5725 to 5850	Pass
			30	120	5795.040	5725 to 5850	Pass
			40	120	5795.040	5725 to 5850	Pass
			50	120	5795.080	5725 to 5850	Pass

6.DFS

Test Result:

BW/Channel	Test Item	Result
80MHz/5290MHz	Channel Availability Check Time	N/A
	Minimum Off-Channel CAC Time	N/A
	Maximum Off-Channel CAC Time	N/A
	In-Service Monitoring	N/A
	Channel Move Time	Pass
	Channel Closing Transmission Time	Pass
	Non-Occupancy Period	Pass
	Uniform Spreading	N/A

The test plots was shown in the report below.

Remark: Channel loading of Timing plots is greater than 17%.

This is the master device used to test DFS FCC ID: Q87-WRT3200ACM

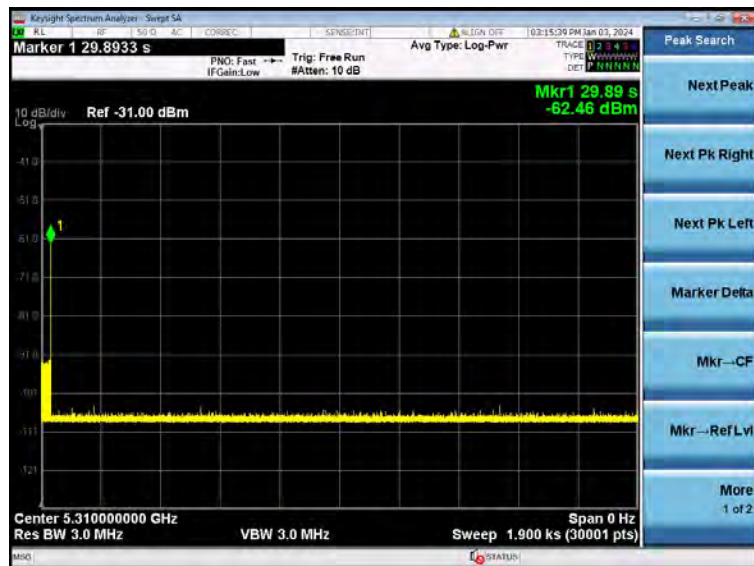
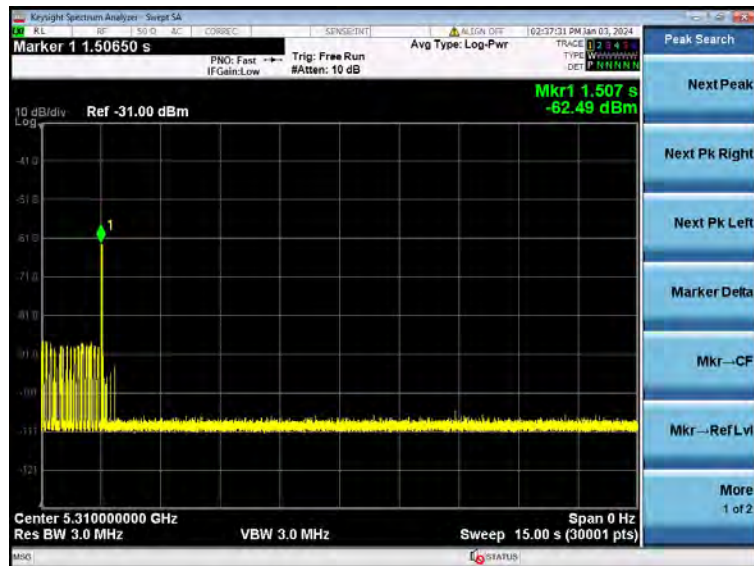
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413005

Page: 290 of 293

5310MHz

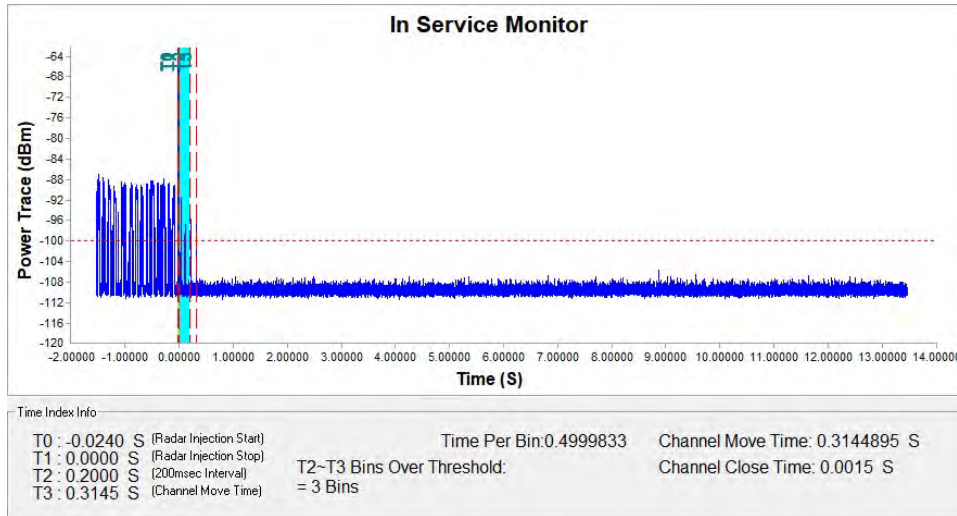


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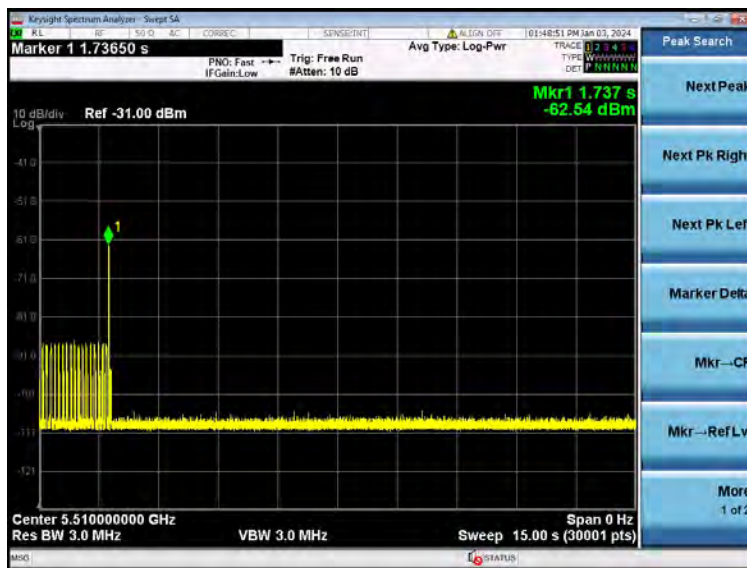
SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413005

Page: 291 of 293



5510MHz

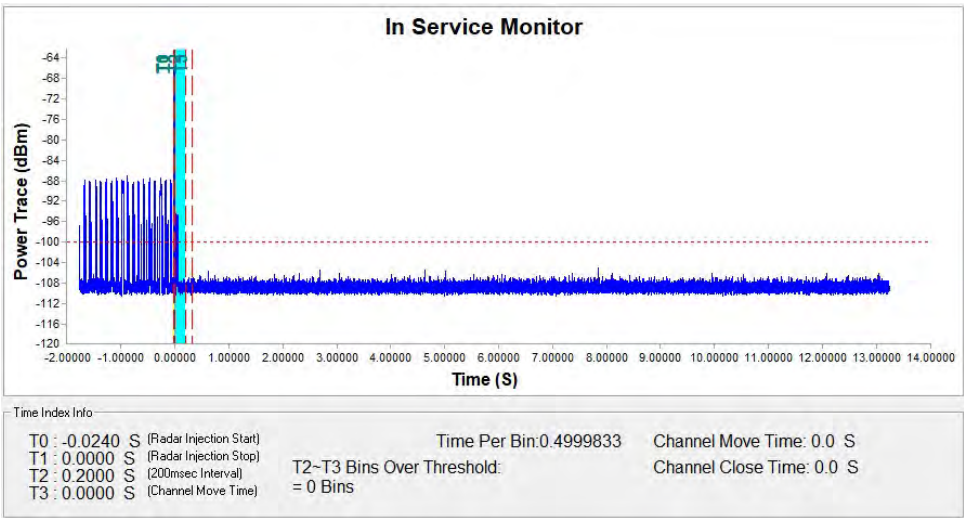
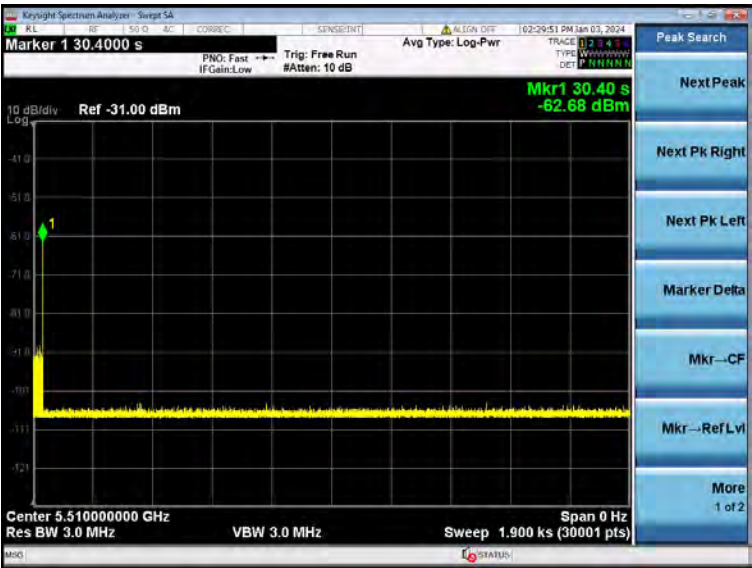


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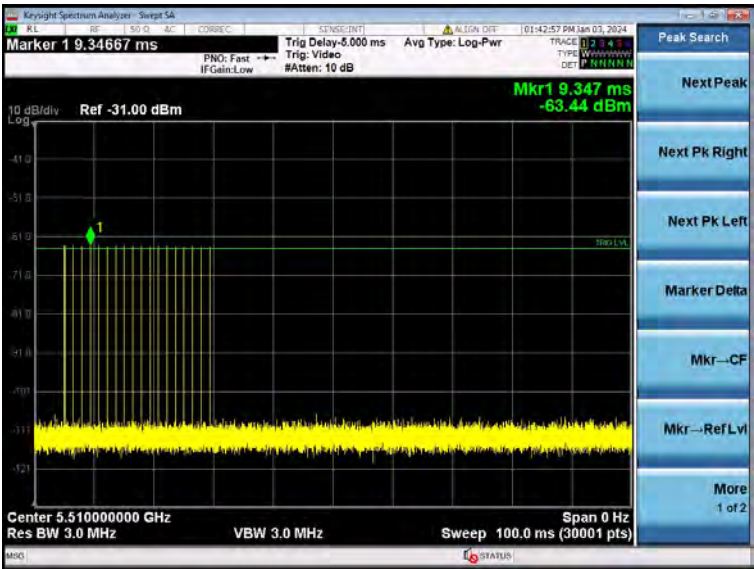
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Report No.: SZCR231200413005

Page: 292 of 293



Radar



- End of the Report -