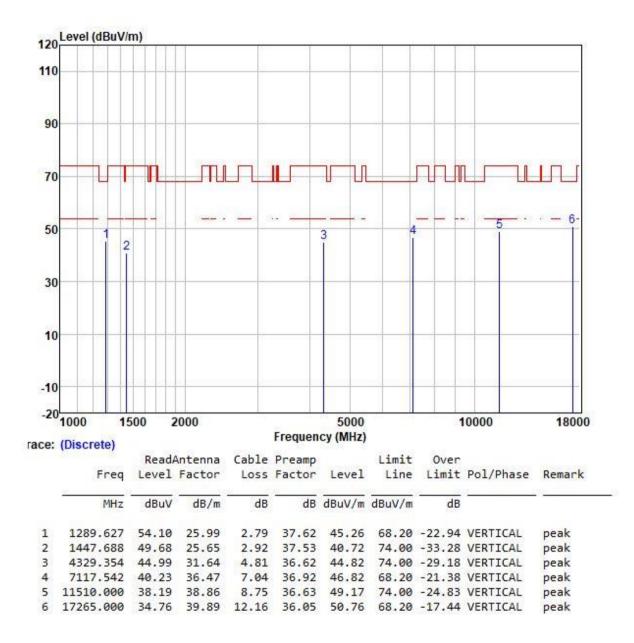


EMC-TRF-01 Rev 1.1 Report No.: GZCR240100007504 Page: 83 of 217

Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low





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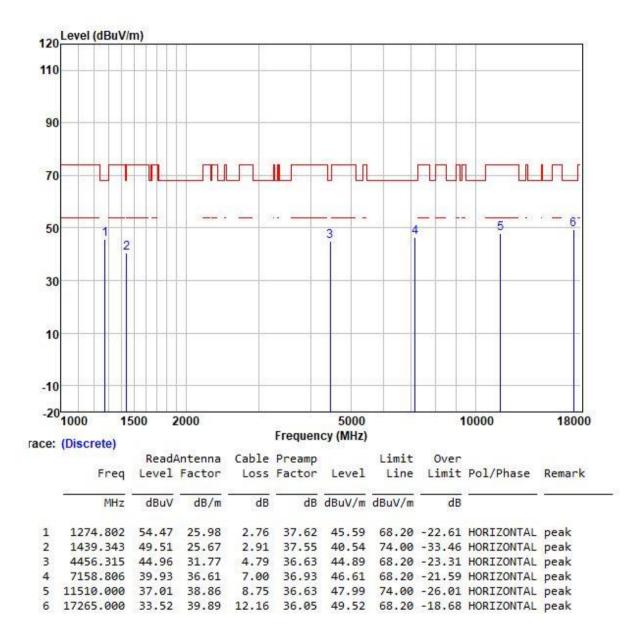
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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low





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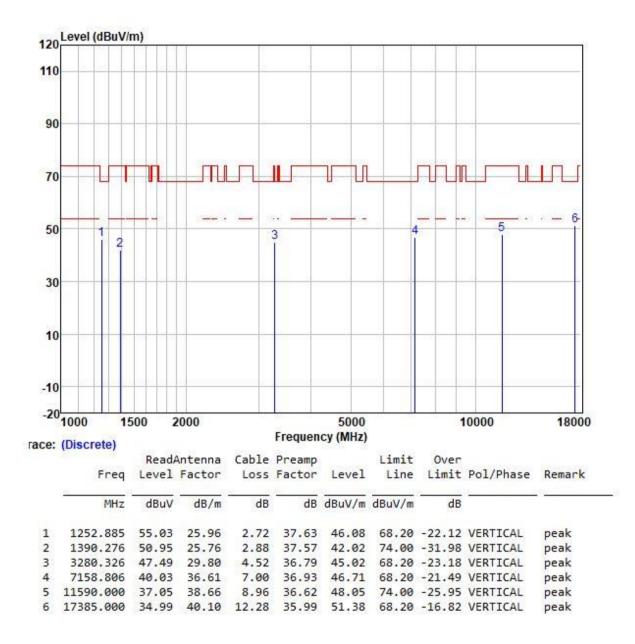
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Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High





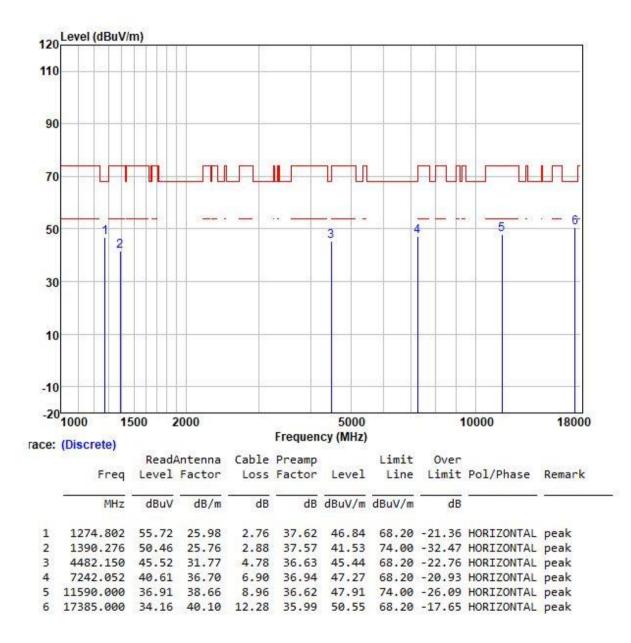
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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High





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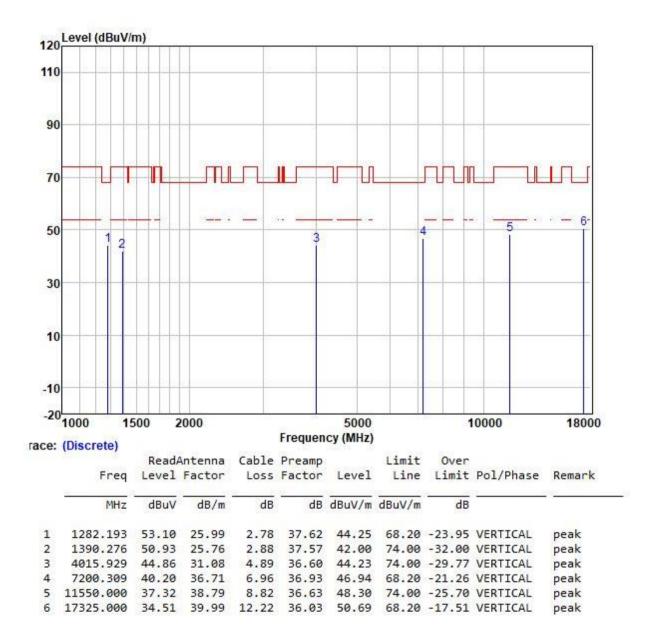
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Test Mode: 08; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz





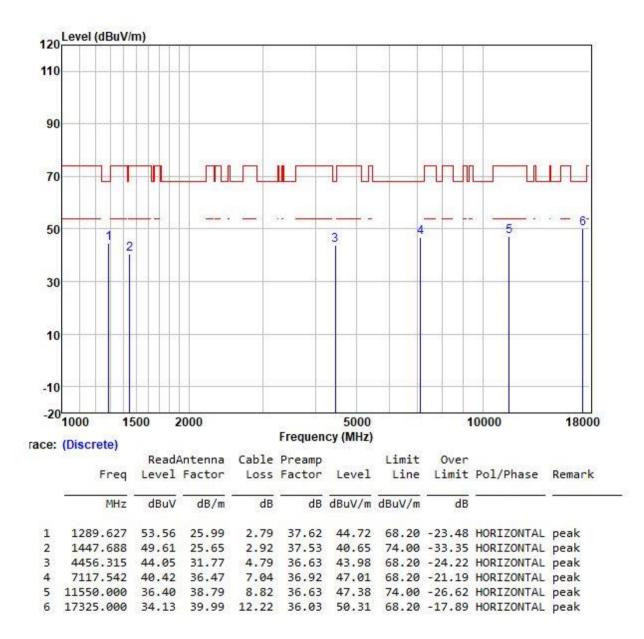
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Test Mode: 08; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz





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7.10 Radiated Emissions which fall in the restricted bands

47 CFR Part 15, Subpart C 15,209 & Subpart E 15,407(b) Test Requirement Test Method: KDB 789033 D02 II G

Limit:

Frequency (MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Remark: The emission limits shown in the above table are based on measurements employing a CISPR guasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 18.2 °C Humidity: 45.8 % RH

Atmospheric Pressure: 1021 mbar



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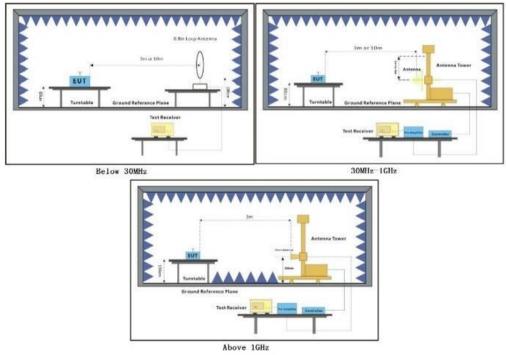


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7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	07	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	08	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/ac 20/40/80, Only the data of worst case is recorded in the report.

7.10.3 Test Setup Diagram





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7.10.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

h. Test the EUT in the lowest channel, the Highest channel.

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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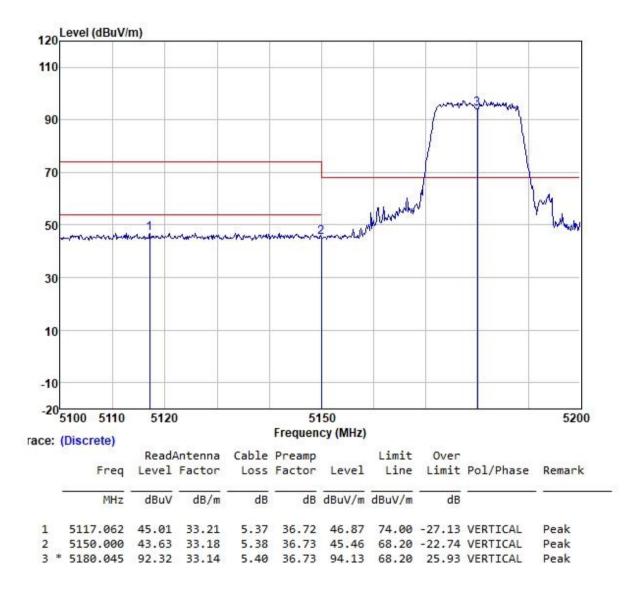
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Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low





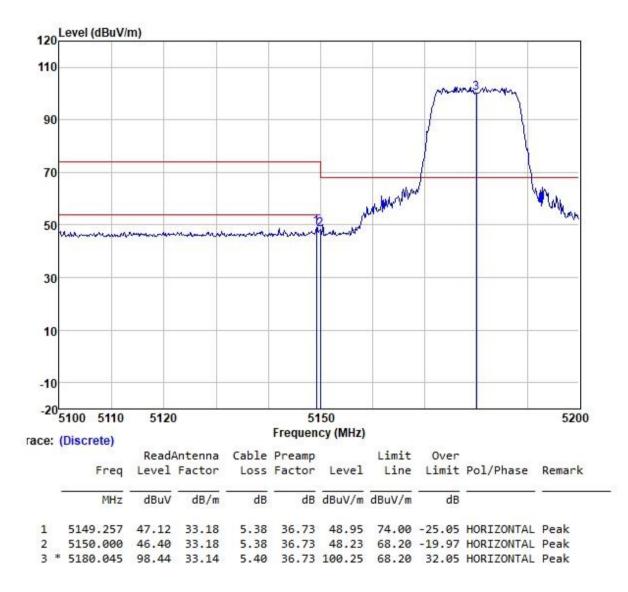
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low





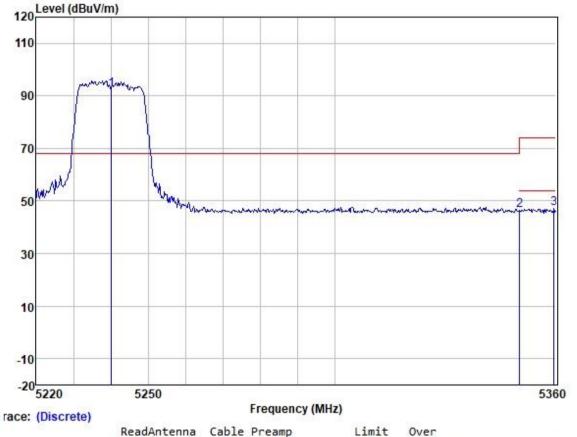
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Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



		Freq		Factor				Line		Pol/Phase	Remark
	-	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	*	5240.000	90.71	33.11	5.45	36.74	92.53	68.20	24.33	VERTICAL	Peak
2		5350.000	44.54	33.04	5.55	36.76	46.37	68.20	-21.83	VERTICAL	Peak
3		5359.433	45.22	33.03	5.56	36.76	47.05	74.00	-26.95	VERTICAL	Peak



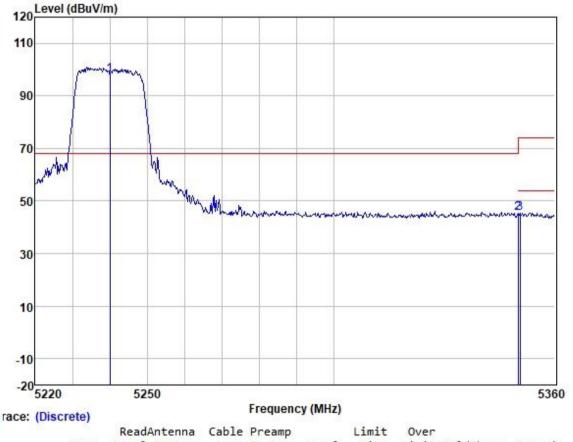
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	1 <u></u>	<u>.</u>
1	* 5239.932	96.22	33.11	5.45	36.74	98.04	68.20	29.84	HORIZONTAL	Peak
2	5349.938	43.51	33.04	5.55	36.76	45.34	68.20	-22.86	HORIZONTAL	Peak
3	5350.504	43.67	33.04	5.55	36.76	45.50	74.00	-28.50	HORIZONTAL	Peak



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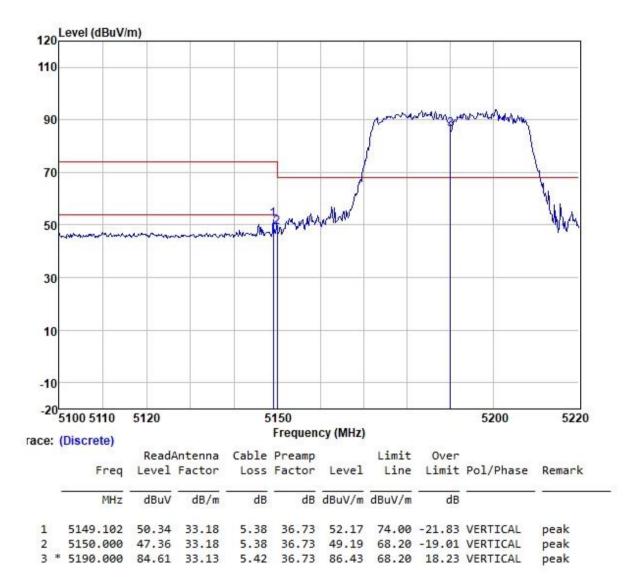
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EMC-TRF-01 Rev 1.1 Report No.: GZCR240100007504 Page: 96 of 217

Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low





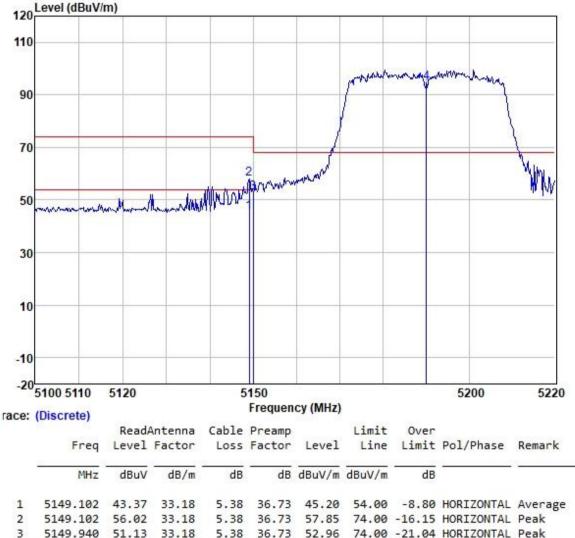
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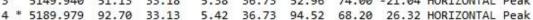
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low







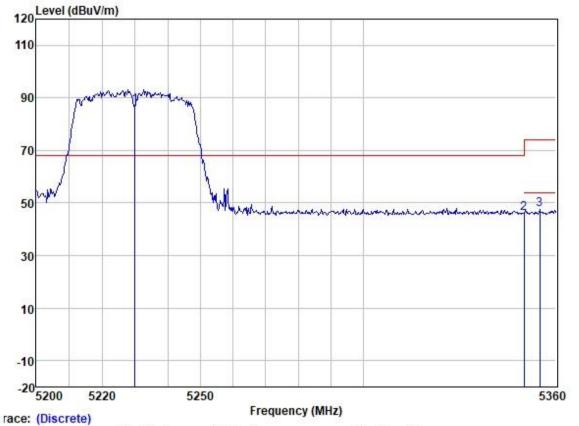
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EMC-TRF-01 Rev 1.1 Report No.: GZCR240100007504 Page: 98 of 217

Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



		Freq		Antenna Factor						Pol/Phase	Remark
	1	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	*	5230.028	85.17	33.12	5.44	36.74	86.99	68.20	18.79	VERTICAL	Peak
2		5350.000	44.36	33.04	5.55	36.76	46.19	68.20	-22.01	VERTICAL	Peak
3		5354.805	45.65	33.03	5.56	36.76	47.48	74.00	-26.52	VERTICAL	Peak



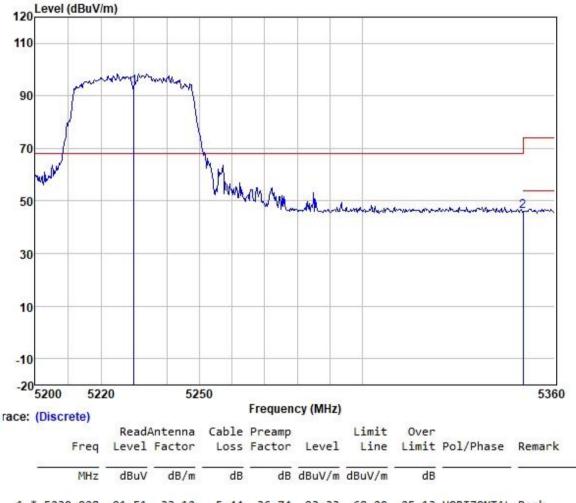
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EMC-TRF-01 Rev 1.1 Report No.: GZCR240100007504 Page: 99 of 217

Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



1 * 5230.028 91.51 33.12 5.44 36.74 93.33 68.20 25.13 HORIZONTAL Peak 5349.938 44.08 33.04 5.55 36.76 45.91 68.20 -22.29 HORIZONTAL Peak



2

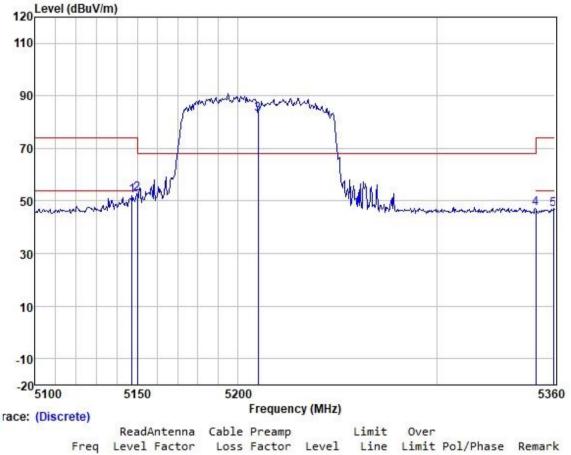
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EMC-TRF-01 Rev 1.1 Report No.: GZCR240100007504 Page: 100 of 217

Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



		Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	1	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	-	
1		5147.386	50.23	33.18	5.38	36.73	52.06	74.00	-21.94	VERTICAL	peak
2		5150.000	50.82	33.18	5.38	36.73	52.65	68.20	-15.55	VERTICAL	peak
3	*	5210.000	81.41	33.12	5.43	36.74	83.22	68.20	15.02	VERTICAL	peak
4		5350.000	45.22	33.04	5.55	36.76	47.05	68.20	-21.15	VERTICAL	peak
5		5359.201	45.01	33.03	5.56	36.76	46.84	74.00	-27.16	VERTICAL	peak



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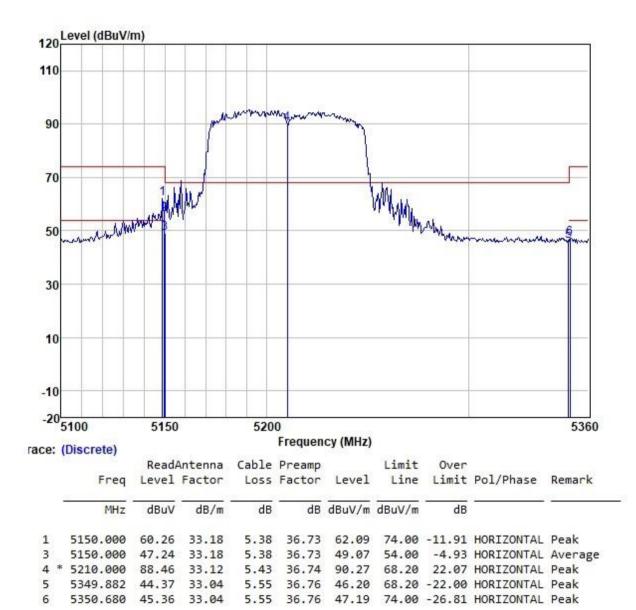
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low





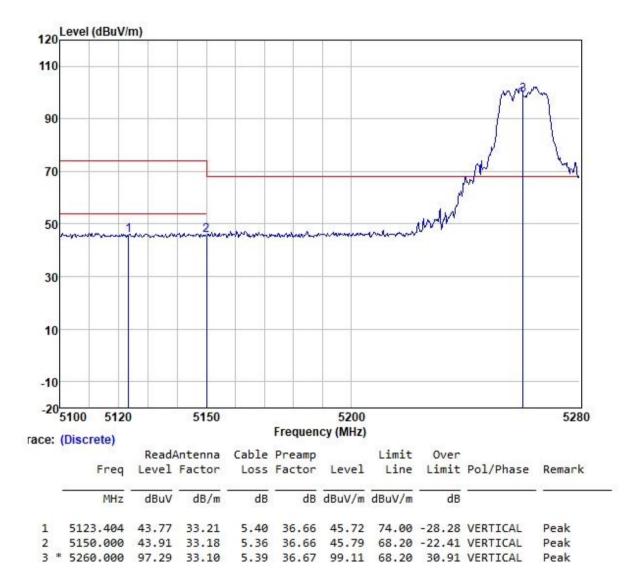
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EMC-TRF-01 Rev 1.1 Report No.: GZCR240100007504 Page: 102 of 217

Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low





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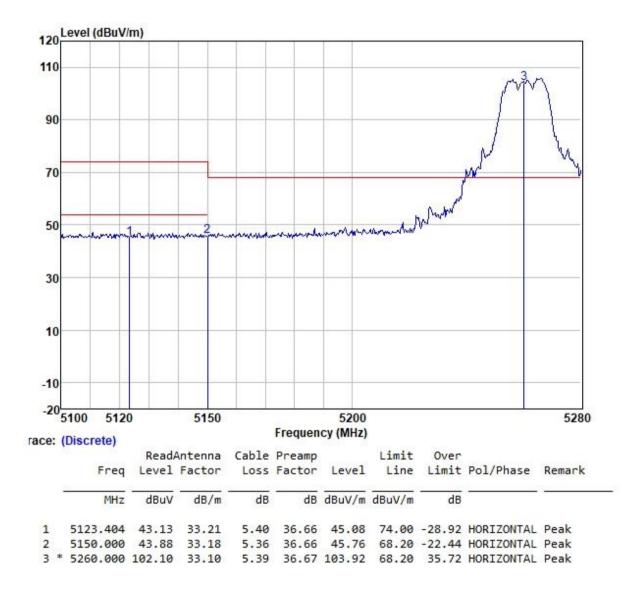
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EMC-TRF-01 Rev 1.1 Report No.: GZCR240100007504 Page: 103 of 217

Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low





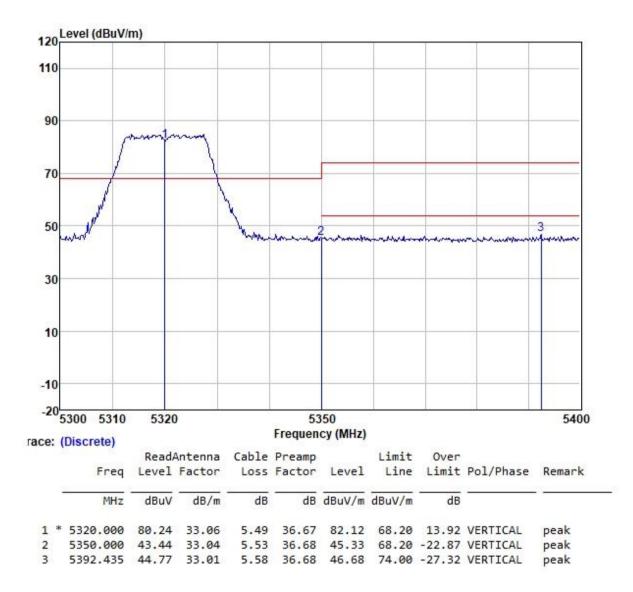
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Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High





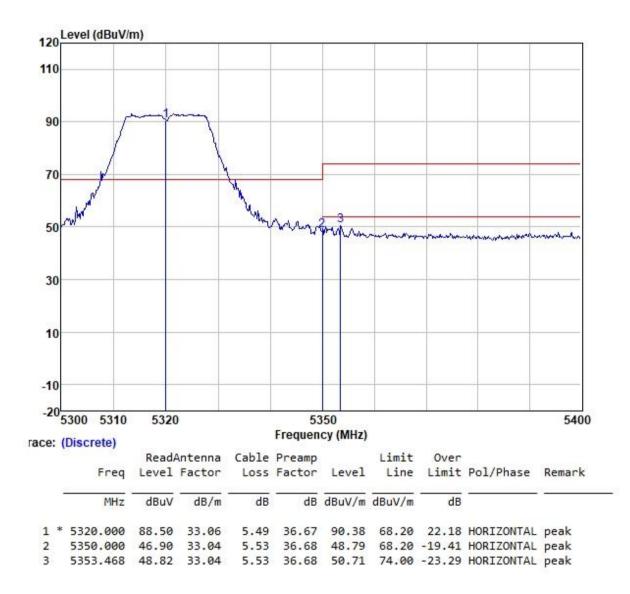
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EMC-TRF-01 Rev 1.1 Report No.: GZCR240100007504 Page: 105 of 217

Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High





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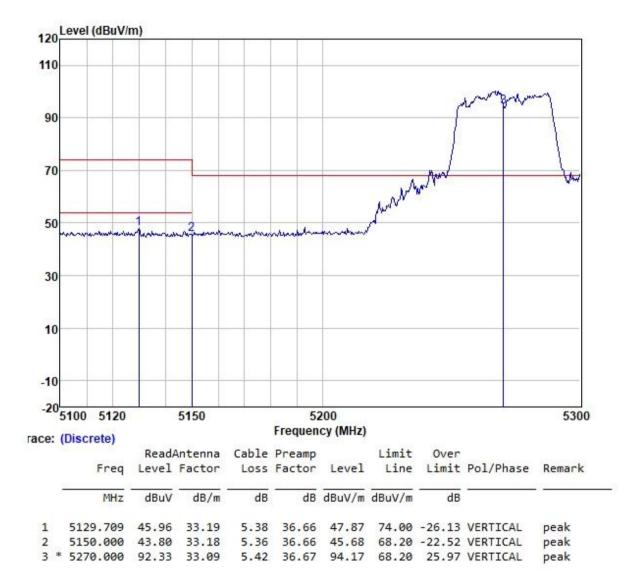
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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low





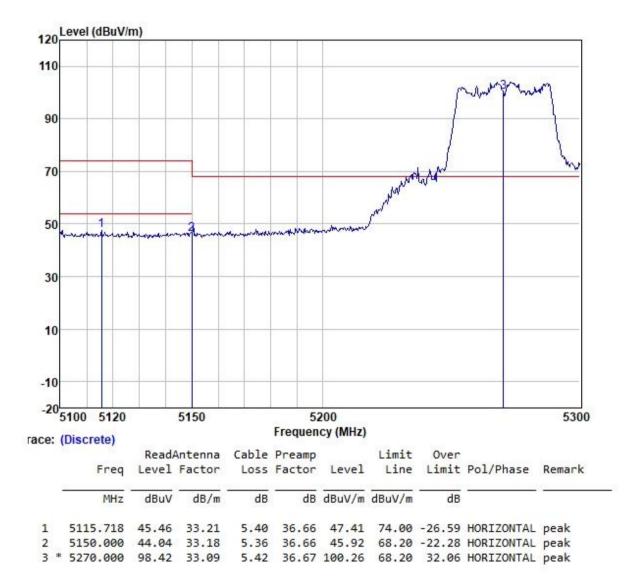
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Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low





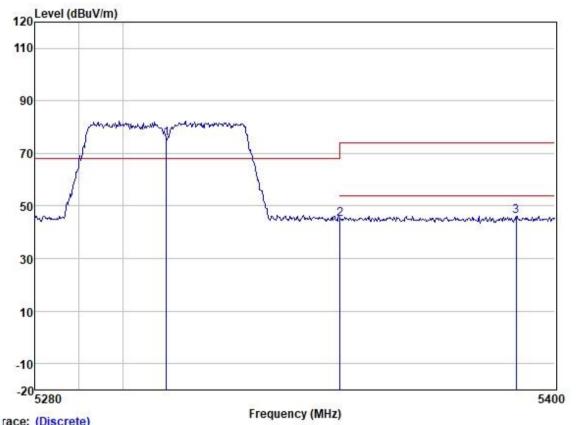
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EMC-TRF-01 Rev 1.1 Report No.: GZCR240100007504 Page: 108 of 217

Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



		(Discrete)	Read	Antenna	Cable	Preamp		Limit	Over		
		Freq								Pol/Phase	Remark
		MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	1	
1	*	5310.000	73.67	33.06	5.49	36.67	75.55	68.20	7.35	VERTICAL	peak
2		5350.000	42.90	33.04	5.53	36.68	44.79	68.20	-23.41	VERTICAL	peak
3		5390.906	44.35	33.01	5.58	36.68	46.26	74.00	-27.74	VERTICAL	peak



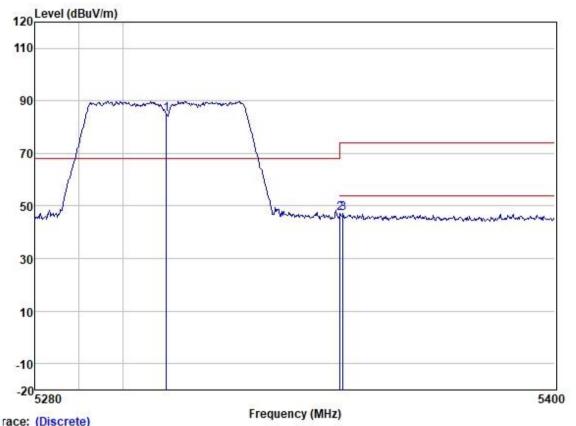
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Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



	1		Read	Antenna	Cable	Preamp		Limit	Over		
		Freq								Pol/Phase	Remark
	1	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		<u>91</u>
1 '	*	5310.000	83.17	33.06	5.49	36.67	85.05	68.20	16.85	HORIZONTAL	peak
2		5350.000	45.34	33.04	5.53	36.68	47.23	68.20	-20.97	HORIZONTAL	peak
3		5350.714	45.18	33.04	5.53	36.68	47.07	74.00	-26.93	HORIZONTAL	peak



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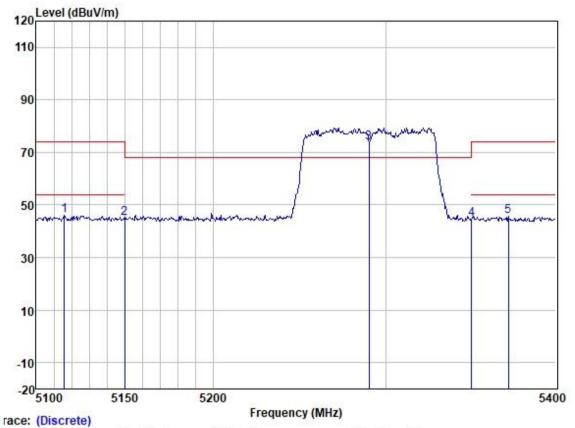
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Rev 1.1 EMC-TRF-01

Report No.: GZCR240100007504 Page: 110 of 217

Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz



		Read/	Antenna	Cable	Preamp		Limit	Over				
	Freq	Level	Level	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB				
1	5115.766	44.06	33.21	5.40	36.66	46.01	74.00	-27.99	VERTICAL	peak		
2	5150.000	43.26	33.18	5.36	36.66	45.14	68.20	-23.06	VERTICAL	peak		
3 *	5290.000	71.77	33.08	5.44	36.67	73.62	68.20	5.42	VERTICAL	peak		
4	5350.000	42.82	33.04	5.53	36.68	44.71	68.20	-23.49	VERTICAL	peak		
5	5371.678	43.64	33.02	5.56	36.68	45.54	74.00	-28.46	VERTICAL	peak		



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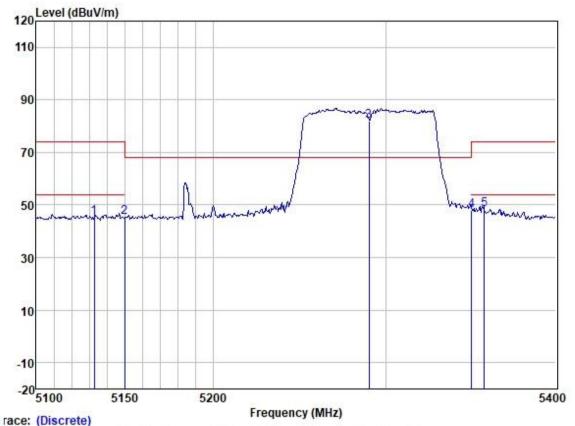
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Rev 1.1 EMC-TRF-01

Report No.: GZCR240100007504 Page: 111 of 217

Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz



	Freq		Antenna Factor						Pol/Phase	Remark
2	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		<u>8</u>
1	5132.753	43.60	33.19	5.38	36.66	45.51	74.00	-28.49	HORIZONTAL	Peak
2	5150.000	43.34	33.18	5.36	36.66	45.22	68.20	-22.98	HORIZONTAL	Peak
3 *	5290.000	80.02	33.08	5.44	36.67	81.87	68.20	13.67	HORIZONTAL	Peak
4	5350.000	46.19	33.04	5.53	36.68	48.08	68.20	-20.12	HORIZONTAL	Peak
5	5357.573	46.56	33.03	5.55	36.68	48.46	74.00	-25.54	HORIZONTAL	Peak



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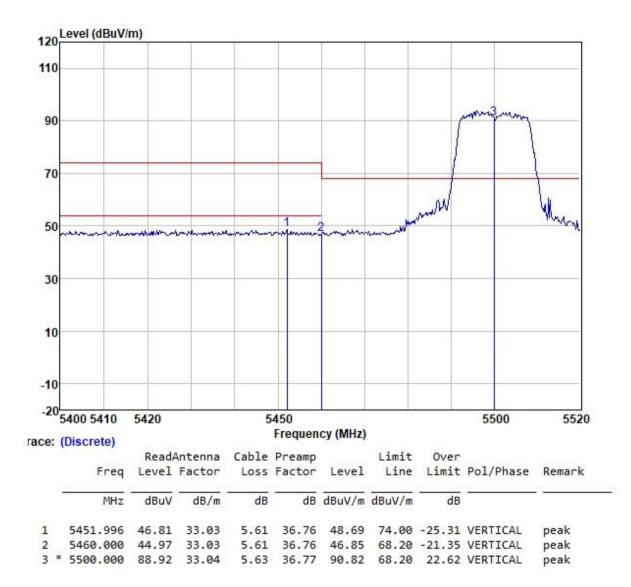
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EMC-TRF-01 Rev 1.1 Report No.: GZCR240100007504 112 of 217 Page:

Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low





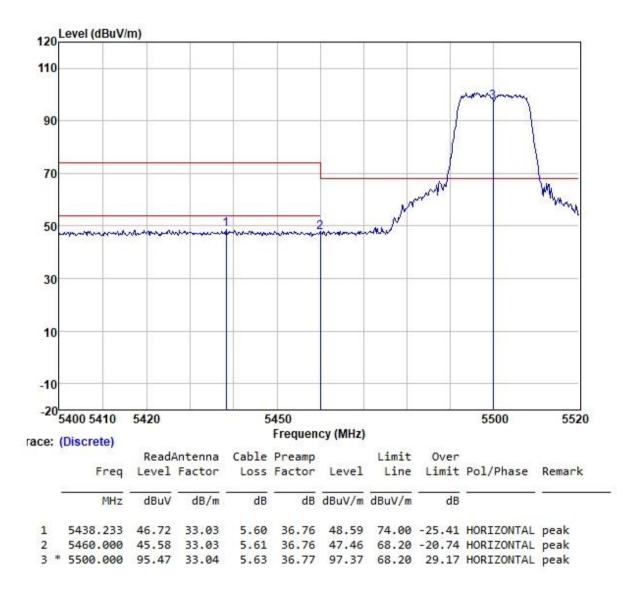
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EMC-TRF-01 Rev 1.1 Report No.: GZCR240100007504 Page: 113 of 217

Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low





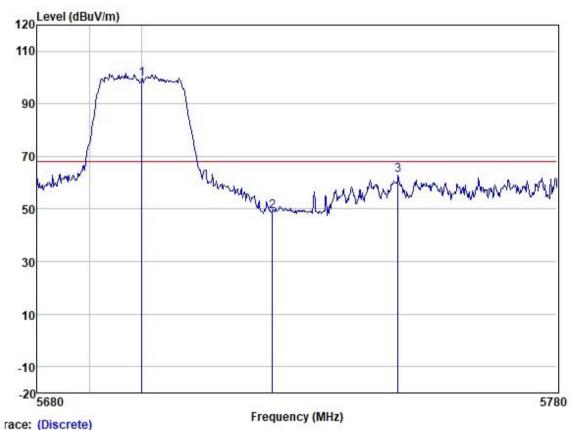
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EMC-TRF-01 Rev 1.1 Report No.: GZCR240100007504 Page: 114 of 217

Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



ReadAntenna Cable Preamp Limit Over Level Factor Loss Factor Level Line Limit Pol/Phase Remark Freq dB dBuV/m dBuV/m MHz dBuV dB/m dB dB peak 1 * 5700.000 96.72 33.64 5.70 36.78 99.28 68.20 31.08 VERTICAL 5725.000 46.48 33.79 2 5.72 36.78 49.21 68.20 -18.99 VERTICAL peak 3 5749.214 59.92 33.88 5.74 36.79 62.75 68.20 -5.45 VERTICAL peak



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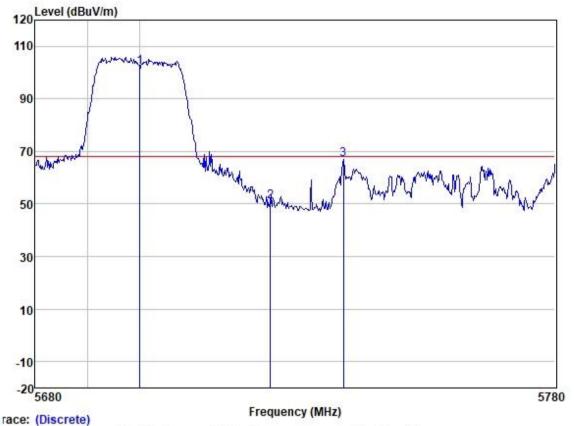
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Rev 1.1 EMC-TRF-01

Report No.: GZCR240100007504 Page: 115 of 217

Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



		Freq		Antenna Factor						Pol/Phase	Remark
	2	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		S <u>1</u>
1	*	5700.000	99.68	33.64	5.70	36.78	102.24	68.20	34.04	HORIZONTAL	peak
2		5725.000	48.38	33.79	5.72	36.78	51.11	68.20	-17.09	HORIZONTAL	peak
3										HORIZONTAL	



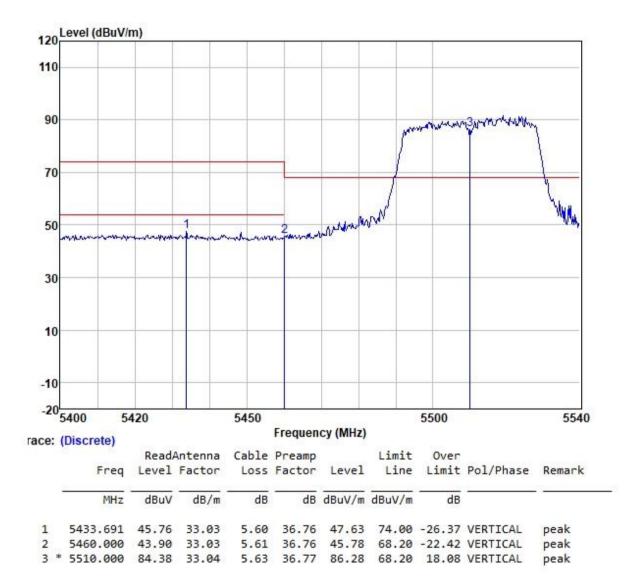
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EMC-TRF-01 Rev 1.1 Report No.: GZCR240100007504 Page: 116 of 217

Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low





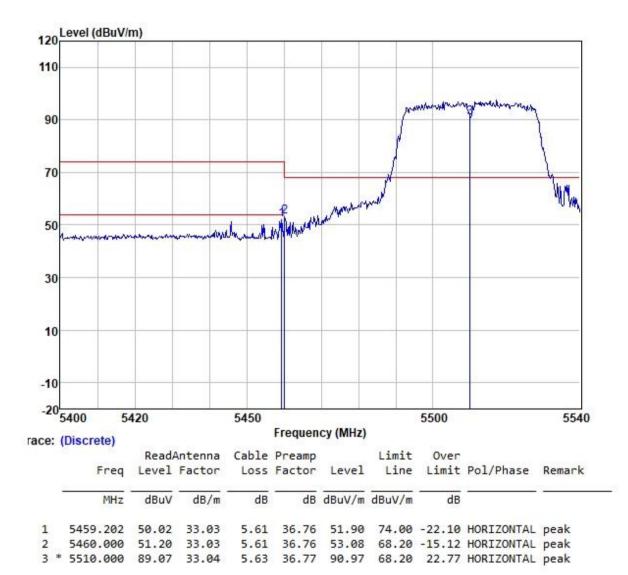
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EMC-TRF-01 Rev 1.1 Report No.: GZCR240100007504 Page: 117 of 217

Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low





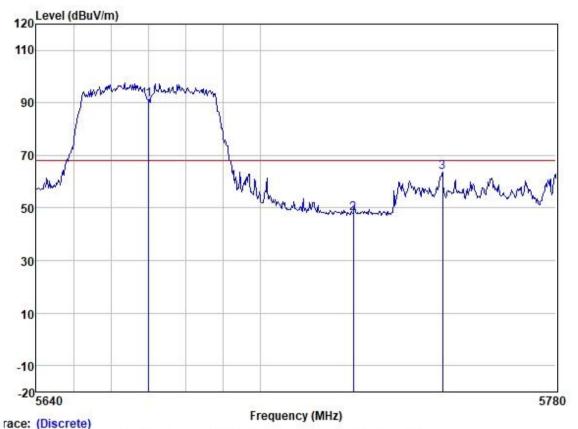
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EMC-TRF-01 Rev 1.1 Report No.: GZCR240100007504 Page: 118 of 217

Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



ReadAntenna Cable Preamp Limit Over Freq Level Factor Loss Factor Level Line Limit Pol/Phase Remark dB dBuV/m dBuV/m MHz dBuV dB/m dB dB peak 1 * 5670.000 88.94 33.50 5.69 36.78 91.35 68.20 23.15 VERTICAL 5.72 36.78 48.11 68.20 -20.09 VERTICAL 2 5725.000 45.38 33.79 peak 3 5749.187 60.69 33.88 5.74 36.79 63.52 68.20 -4.68 VERTICAL peak



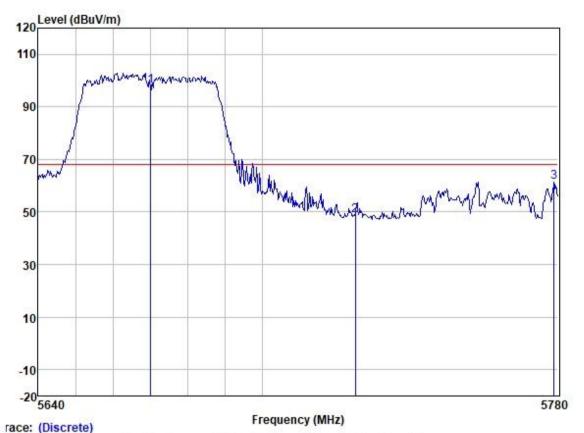
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EMC-TRF-01 Rev 1.1 Report No.: GZCR240100007504 Page: 119 of 217

Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



ReadAntenna Cable Preamp Limit Over Level Factor Loss Factor Level Line Limit Pol/Phase Remark Freq dB dBuV/m dBuV/m MHz dBuV dB/m dB dB 1 * 5670.000 95.44 33.50 5.69 36.78 97.85 68.20 29.65 HORIZONTAL peak 5725.000 45.87 33.79 5.72 36.78 48.60 68.20 -19.60 HORIZONTAL peak 2 3 5778.866 58.48 34.05 5.76 36.79 61.50 68.20 -6.70 HORIZONTAL peak



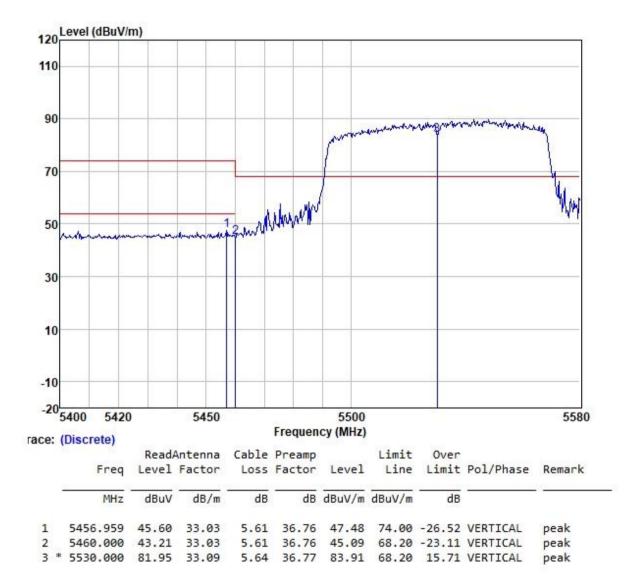
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EMC-TRF-01 Rev 1.1 Report No.: GZCR240100007504 Page: 120 of 217

Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low





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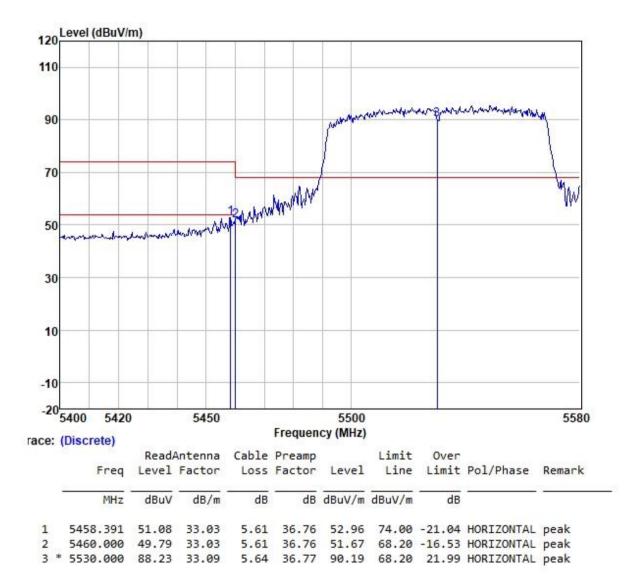
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low





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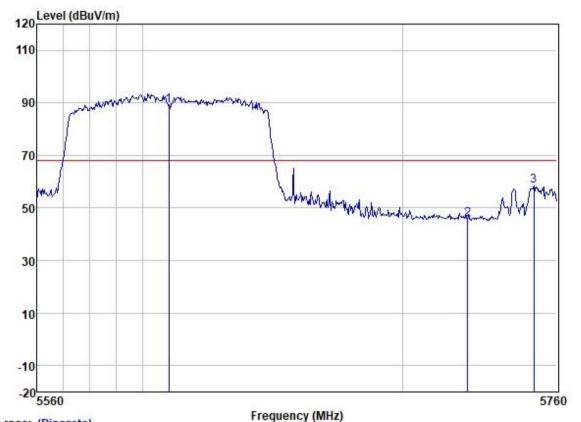
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EMC-TRF-01 Rev 1.1 Report No.: GZCR240100007504 Page: 122 of 217

Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



race: (Discrete) ReadAntenna Cable Preamp Limit Over Freq Level Factor Loss Factor Level Line Limit Pol/Phase Remark dB dBuV/m dBuV/m MHz dBuV dB/m dB dB peak 1 * 5610.000 86.95 33.28 5.67 36.78 89.12 68.20 20.92 VERTICAL 5.72 36.78 45.86 68.20 -22.34 VERTICAL 2 5725.000 43.13 33.79 peak 3 5750.847 55.58 33.88 5.74 36.79 58.41 68.20 -9.79 VERTICAL peak



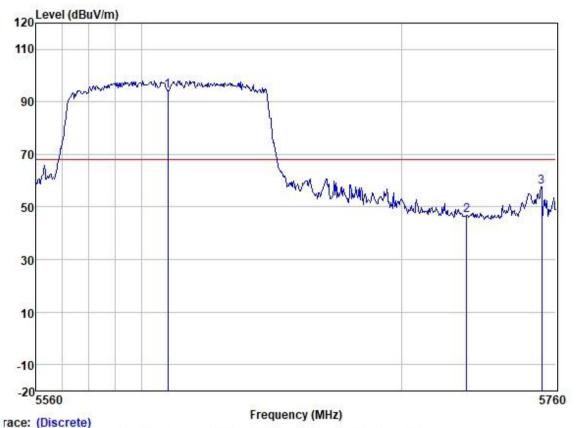
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EMC-TRF-01 Rev 1.1 Report No.: GZCR240100007504 Page: 123 of 217

Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



ReadAntenna Cable Preamp Limit Over Freq Level Factor Loss Factor Level Line Limit Pol/Phase Remark dB dBuV/m dBuV/m MHz dBuV dB/m dB dB 1 * 5610.000 91.91 33.28 5.67 36.78 94.08 68.20 25.88 HORIZONTAL peak 5.72 36.78 46.85 68.20 -21.35 HORIZONTAL peak 2 5725.000 44.12 33.79 3 5754.303 54.83 33.88 5.74 36.79 57.66 68.20 -10.54 HORIZONTAL Peak



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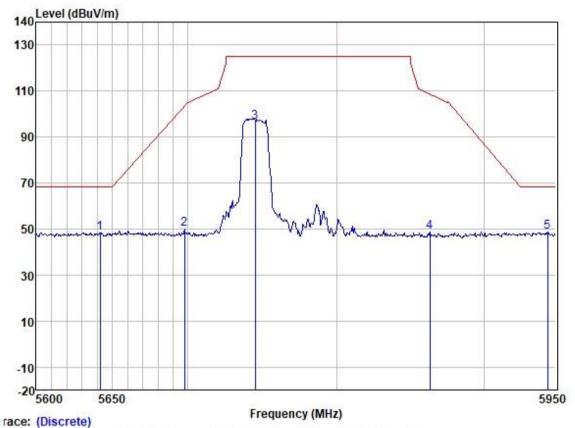
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Report No.: GZCR240100007504 Page: 124 of 217

Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



	Freq		Antenna Factor				Limit Line	10 S S S S S S S S S S S S S S S S S S S	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	<u>.</u>	191
1	5641.915	46.21	31.95	6.35	36.16	48.35	68.20	-19.85	VERTICAL	peak
2	5697.598	47.53	32.01	6.40	36.15	49.79	103.43	-53.64	VERTICAL	peak
3	5745.000	94.15	32.10	6.20	36.14	96.31	125.20	-28.89	VERTICAL	peak
4	5862.988	46.45	32.27	5.96	36.12	48.56	108.56	-60.00	VERTICAL	peak
5	5944.231	46.26	32.36	6.05	36.11	48.56	68.20	-19.64	VERTICAL	peak



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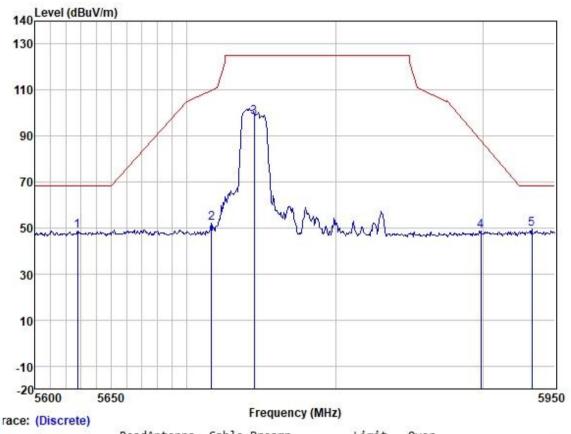
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Rev 1.1 EMC-TRF-01

Report No.: GZCR240100007504 Page: 125 of 217

Test Mode: 08; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



	Freq								Pol/Phase	Remark
<u>.</u>				<u> </u>		. <u></u>				
	rinz	ubuv	00711	ub	ub	ubuv/m	ubuv/iii	чb		
56	527.908	46.52	31.93	6.33	36.17	48.61	68.20	-19.59	HORIZONTAL	peak
57	716.281	49.84	32.04	6.33	36.15	52.06	109.76	-57.70	HORIZONTAL	peak
57	745.000	96.18	32.10	6.20	36.14	98.34	125.20	-26.86	HORIZONTAL	peak
58	898.641	46.51	32.31	5.90	36.12	48.60	87.70	-39.10	HORIZONTAL	peak
59	933.790	47.30	32.34	6.00	36.11	49.53	68.20	-18.67	HORIZONTAL	peak
	5	MHz 5627.908 5716.281 5745.000 5898.641	Freq Level MHz dBuV 5627.908 46.52 5716.281 49.84 5745.000 96.18 5898.641 46.51	Freq Level Factor MHz dBuV dB/m 5627.908 46.52 31.93 5716.281 49.84 32.04 5745.000 96.18 32.10 5898.641 46.51 32.31	Freq Level Factor Loss MHz dBuV dB/m dB 5627.908 46.52 31.93 6.33 5716.281 49.84 32.04 6.33 5745.000 96.18 32.10 6.20 5898.641 46.51 32.31 5.90	Freq Level Factor Loss Factor MHz dBuV dB/m dB dB 5627.908 46.52 31.93 6.33 36.17 5716.281 49.84 32.04 6.33 36.15 5745.000 96.18 32.10 6.20 36.14 5898.641 46.51 32.31 5.90 36.12	Freq Level Factor Loss Factor Level MHz dBuV dB/m dB dB dBuV/m 5627.908 46.52 31.93 6.33 36.17 48.61 5716.281 49.84 32.04 6.33 36.15 52.06 5745.000 96.18 32.10 6.20 36.14 98.34 5898.641 46.51 32.31 5.90 36.12 48.60	Freq Level Factor Loss Factor Level Line MHz dBuV dB/m dB dB dBuV/m dBuV/m 5627.908 46.52 31.93 6.33 36.17 48.61 68.20 5716.281 49.84 32.04 6.33 36.15 52.06 109.76 5745.000 96.18 32.10 6.20 36.14 98.34 125.20 5898.641 46.51 32.31 5.90 36.12 48.60 87.70	Freq Level Factor Loss Factor Level Line Limit MHz dBuV dB/m dB dB dB dBuV/m dBuV/m dB 5627.908 46.52 31.93 6.33 36.17 48.61 68.20 -19.59 5716.281 49.84 32.04 6.33 36.15 52.06 109.76 -57.70 5745.000 96.18 32.10 6.20 36.14 98.34 125.20 -26.86 5898.641 46.51 32.31 5.90 36.12 48.60 87.70 -39.10	Freq Level Factor Loss Factor Level Line Limit Pol/Phase MHz dBuV dB/m dB dB dB dBuV/m dBuV/m dB 5627.908 46.52 31.93 6.33 36.17 48.61 68.20 -19.59 HORIZONTAL 5716.281 49.84 32.04 6.33 36.15 52.06 109.76 -57.70 HORIZONTAL 5745.000 96.18 32.10 6.20 36.14 98.34 125.20 -26.86 HORIZONTAL 5898.641 46.51 32.31 5.90 36.12 48.60 87.70 -39.10 HORIZONTAL



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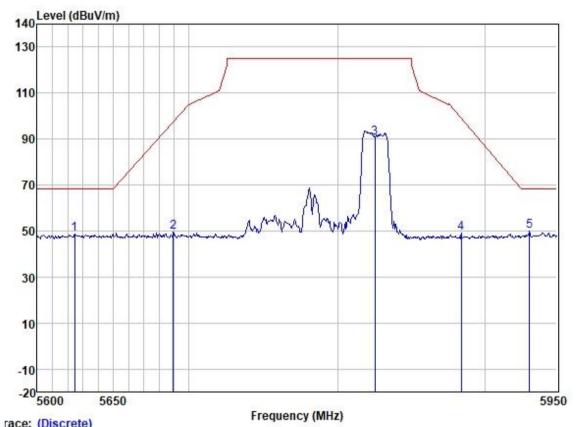
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Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



	2 X	Read	Antenna	Cable	Preamp		Limit	Over		
	Freq								Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5624.497	46.56	31.93	6.33	36.17	48.65	68.20	-19.55	VERTICAL	peak
2	5689.659	47.26	32.01	6.40	36.15	49.52	97.57	-48.05	VERTICAL	peak
3	5825.000	88.51	32.23	6.04	36.13	90.65	125.20	-34.55	VERTICAL	peak
4	5883.997	46.91	32.29	5.93	36.12	49.01	98.58	-49.57	VERTICAL	peak
5	5930.913	47.63	32.34	6.00	36.11	49.86	68.20	-18.34	VERTICAL	peak



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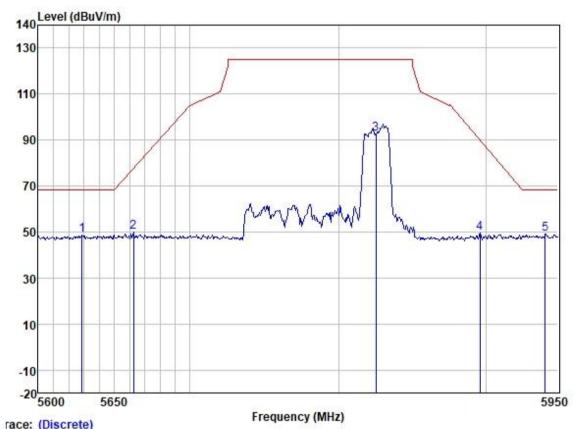
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Report No.: GZCR240100007504 Page: 127 of 217

Test Mode: 08; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



	(01001010)									
	Freq		Antenna Factor						Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		<u>9</u>
1	5628.590	46.55	31.93	6.33	36.17	48.64	68.20	-19.56	HORIZONTAL	peak
2	5662.474	47.60	31.97	6.37	36.16	49.78	77.46	-27.68	HORIZONTAL	peak
3	5825.000	90.36	32.23	6.04	36.13	92.50	125.20	-32.70	HORIZONTAL	peak
4	5896.138	47.64	32.31	5.90	36.12	49.73	89.56	-39.83	HORIZONTAL	peak
5	5940.989	47.10	32.34	6.00	36.11	49.33	68.20	-18.87	HORIZONTAL	peak



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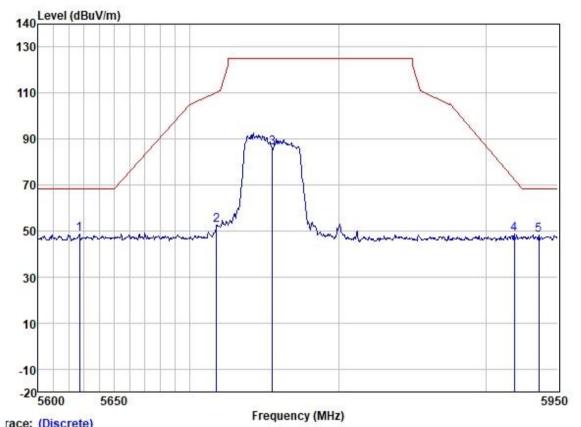
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Report No.: GZCR240100007504 Page: 128 of 217

Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



66.	(Discrete)									
	Freq		Antenna Factor				Limit Line	10. 17 CO. 19	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	<u>.</u>	182
1	5627.226	46.59	31.93	6.33	36.17	48.68	68.20	-19.52	VERTICAL	peak
2	5717.667	50.25	32.04	6.33	36.15	52.47	110.15	-57.68	VERTICAL	peak
3	5755.000	84.01	32.10	6.20	36.14	86.17	125.20	-39.03	VERTICAL	peak
4	5919.777	46.65	32.33	5.95	36.11	48.82	72.06	-23.24	VERTICAL	peak
5	5936.668	45.86	32.34	6.00	36.11	48.09	68.20	-20.11	VERTICAL	peak



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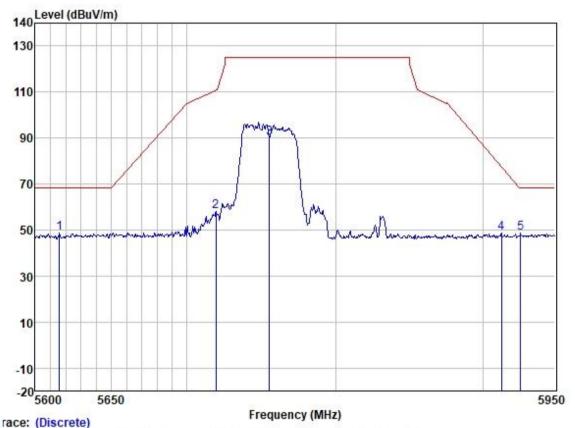
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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



	Freq		Antenna Factor						Pol/Phase	Remark
	eq		, accor	2033	, accor		LINC	E AMA A	101/11050	ricinar is
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5615.979	46.49	31.91	6.32	36.17	48.55	68.20	-19.65	HORIZONTAL	peak
2	5719.400	55.79	32.04	6.33	36.15	58.01	110.63	-52.62	HORIZONTAL	peak
3	5755.000	87.97	32.10	6.20	36.14	90.13	125.20	-35.07	HORIZONTAL	peak
4	5912.962	46.43	32.33	5.95	36.11	48.60	77.10	-28.50	HORIZONTAL	peak
5	5926.240	46.36	32.34	6.00	36.11	48.59	68.20	-19.61	HORIZONTAL	peak



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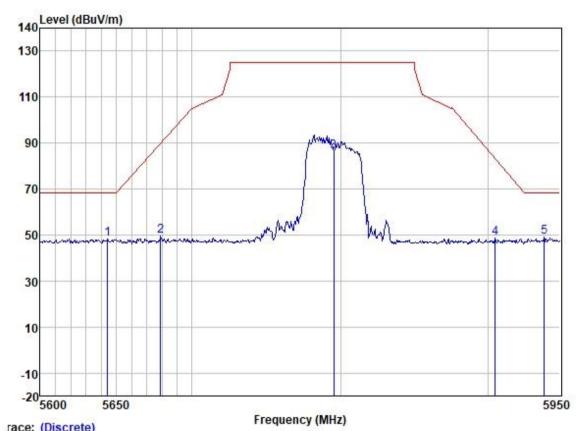
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Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



	8) X	Read	Antenna	Cable	Preamp		Limit	Over		
	Freq						Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	5	
1	5644.309	45.94	31.95	6.35	36.16	48.08	68.20	-20.12	VERTICAL	peak
2	5679.320	47.26	31.99	6.38	36.16	49.47	89.94	-40.47	VERTICAL	peak
3	5795.000	84.23	32.19	6.10	36.13	86.39	125.20	-38.81	VERTICAL	peak
4	5905.081	46.44	32.31	5.90	36.12	48.53	82.93	-34.40	VERTICAL	peak
5	5938.828	46.68	32.34	6.00	36.11	48.91	68.20	-19.29	VERTICAL	peak



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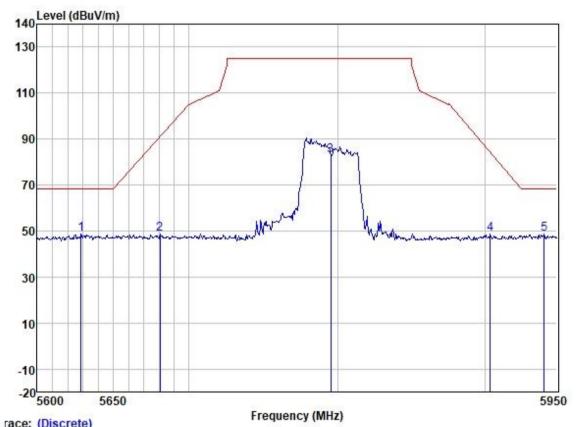
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Report No.: GZCR240100007504 Page: 131 of 217

Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



	(Discrete)	Read	Antenna	Cable	Preamp		Limit	Over		
	Freq								Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	3 <u></u>	5 <u>10</u>
1	5628.590	46.55	31.93	6.33	36.17	48.64	68.20	- 1 9.56	HORIZONTAL	peak
2	5680.697	46.49	31.99	6.38	36.16	48.70	90.95	-42.25	HORIZONTAL	peak
3	5795.000	80.78	32.19	6.10	36.13	82.94	125.20	-42.26	HORIZONTAL	peak
4	5903.649	46.44	32.31	5.90	36.12	48.53	83.99	-35.46	HORIZONTAL	peak
5	5940.989	46.34	32.34	6.00	36.11	48.57	68.20	-19.63	HORIZONTAL	peak



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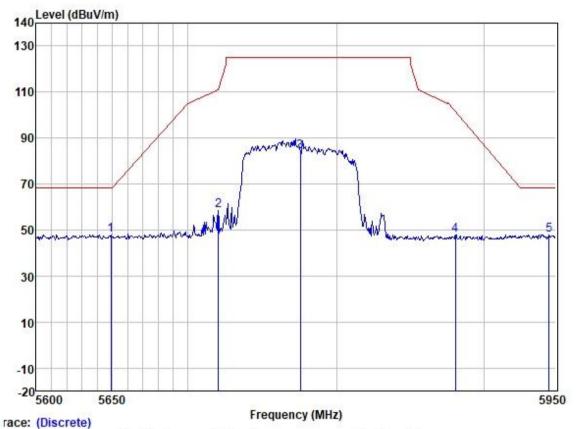
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Test Mode: 08; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz



	Freq		Antenna Factor				Limit Line		Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5649.102	45.78	31.95	6.35	36.16	47.92	68.20	-20.28	VERTICAL	peak
2	5720.094	56.40	32.04	6.33	36.15	58.62	111.01	-52.39	VERTICAL	peak
3	5775.000	81.82	32.16	6.10	36.14	83.94	125.20	-41.26	VERTICAL	peak
4	5880.431	45.91	32.29	5.93	36.12	48.01	101.23	-53.22	VERTICAL	peak
5	5944.952	45.62	32.36	6.05	36.11	47.92	68.20	-20.28	VERTICAL	peak



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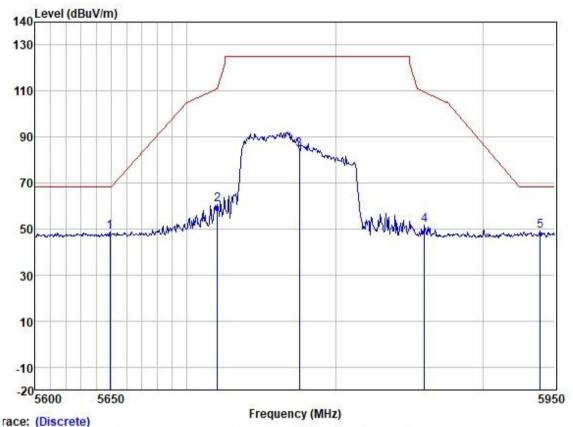
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Report No.: GZCR240100007504 Page: 133 of 217

Test Mode: 08; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz



_										
	Freq		Antenna Factor						Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	1 <u>8</u>	
1	5649.102	46.47	31.95	6.35	36.16	48.61	68.20	- 1 9.59	HORIZONTAL	peak
2	5720.094	58.29	32.04	6.33	36.15	60.51	111.01	-50.50	HORIZONTAL	peak
3	5775.000	82.29	32.16	6.10	36.14	84.41	125.20	-40.79	HORIZONTAL	peak
4	5860.146	49.73	32.27	5.96	36.12	51.84	109.36	-57.52	HORIZONTAL	peak
5									HORIZONTAL	



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EMC-1	RF-01 Reי	v 1.1					Report No. Page:	: GZCR24010 134 of 217)00075	604
7.11	Frequen	cy Sta	bility	,						
	Test Requ Test Meth		-		Part 15, Sub 3.10 (2013)	part E 15.407(Section 6.8	g)			
7.11.	1 E.U.T. C Operating Temperati	Environ		٥c	Humidity:	57.0 % RH	Atmosph	eric Pressure:	1014	mbar
7.11.	2 Test Mo	de Desc	criptio	n						
	Pre-scan Final test		;	Description	on					
	Final test	05		modulation and found rate @ M	on types. All d the data ra ICS0 is the	Keep the EUT in data rates for ate @ 6Mbps is worst case of IE rded in the repo	each modula the worst ca EEE 802.11r	ation type have ase of IEEE 802	been te 2.11a; c	ested data
	Final test	06		all modul tested an data rate	ation types. Id found the @ MCS0 is	_Keep the EUT All data rates f data rate @ 6M the worst case recorded in the	or each moc Mbps is the v e of IEEE 802	lulation type ha vorst case of IE	ve beer EE 802	า 2.11a;
	Final test	07		all modul tested an data rate	ation types. d found the @ MCS0 is	_Keep the EUT All data rates f data rate @ 6M the worst case recorded in the	or each moc Mbps is the v e of IEEE 802	lulation type ha	ve beer EE 802	ר 2.11a;
	Final test	08		all modul tested an	ation types. Id found the	Keep the EUT i All data rates f data rate @ 6N the worst case	or each moo Mbps is the v	lulation type ha	ve beer EE 802	ח 2.11a;

data of worst case is recorded in the report.



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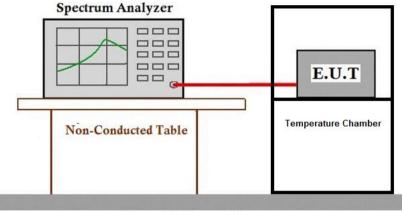
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7.11.3 Test Setup Diagram



Ground Reference Plane

7.11.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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Test Setup Photo 8

Refer to Appendix - Test Setup Photo for GZCR240100007504



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EUT Constructional Details (EUT Photos) 9

Refer to Appendix - External and Internal Photos for GZCR2401000075AT



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10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

				A	Ant1		
Mode	ТХ Туре	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
		5180	2.066	10.016	20.63	6.86	0.07
		5200	2.067	10.080	20.51	6.88	0.33
		5240	2.063	10.013	20.60	6.86	0.10
		5260	2.063	10.016	20.60	6.86	0.10
		5300	2.066	10.050	20.56	6.87	0.24
802.11a	SISO	5320	2.064	10.017	20.60	6.86	0.10
002.11a	3130	5500	2.067	10.017	20.63	6.85	0.04
		5580	2.063	10.017	20.59	6.86	0.10
		5700	2.064	10.014	20.61	6.86	0.10
		5745	2.064	10.017	20.60	6.86	0.10
		5785	2.067	10.080	20.51	6.88	0.33
		5825	2.063	10.013	20.60	6.86	0.09
		5190	0.947	10.080	9.39	10.27	0.15
		5230	0.944	10.017	9.42	10.26	0.03
		5270	0.943	10.016	9.41	10.26	0.03
000 11-		5310	0.943	10.013	9.42	10.26	0.06
802.11n (HT40)	SISO	5510	0.944	10.017	9.42	10.26	0.06
(11110)		5550	0.943	10.110	9.33	10.30	0.24
		5670	0.946	10.016	9.44	10.25	0.03
		5755	0.943	9.983	9.45	10.25	0.00
		5795	0.943	10.013	9.42	10.26	0.06
		5210	1.920	10.047	19.11	7.19	0.21
000 11 6-		5290	1.920	10.016	19.17	7.17	0.06
802.11ac (VHT80)	SISO	5530	1.920	10.080	19.05	7.20	0.31
(011100)		5610	1.920	10.017	19.17	7.17	0.06
		5775	1.920	10.013	19.18	7.17	0.09



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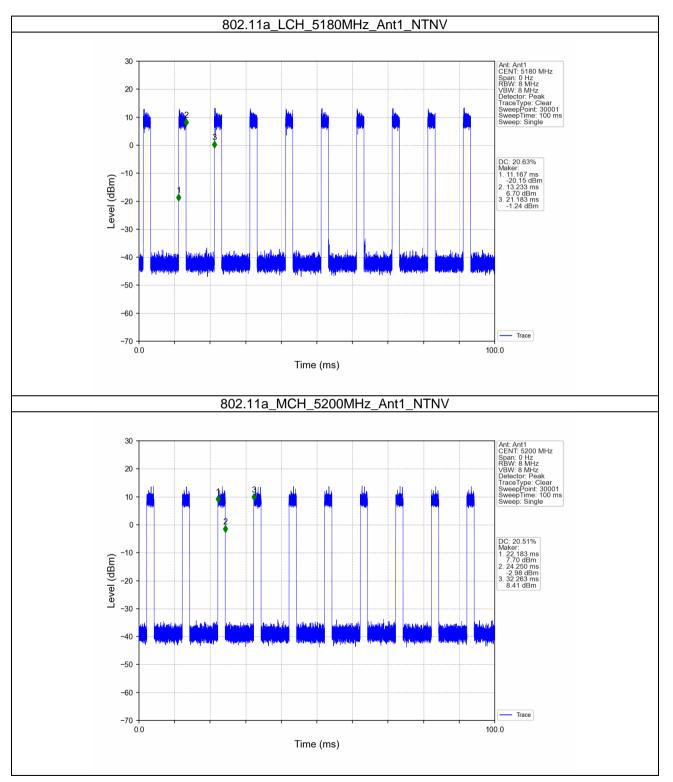
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1.1.2 Test Graph





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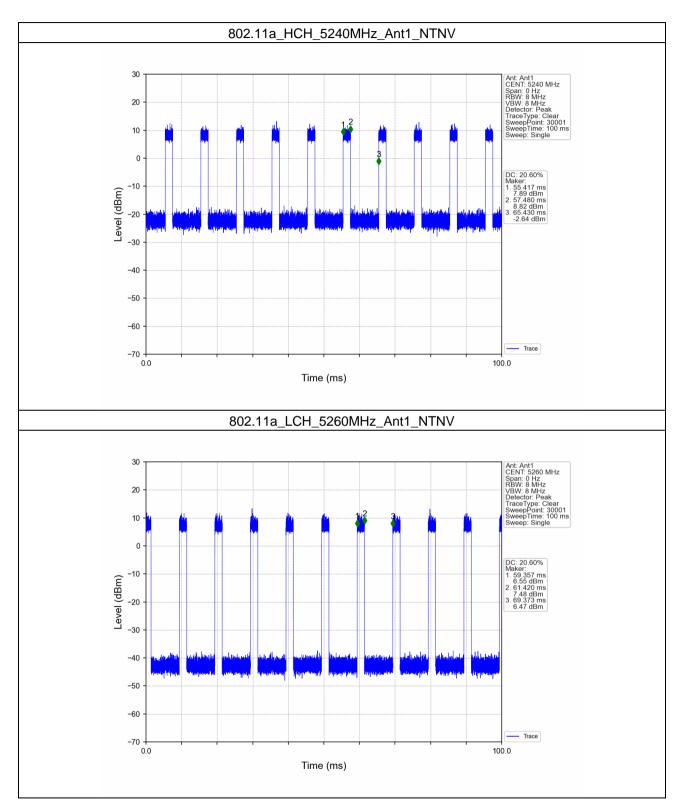
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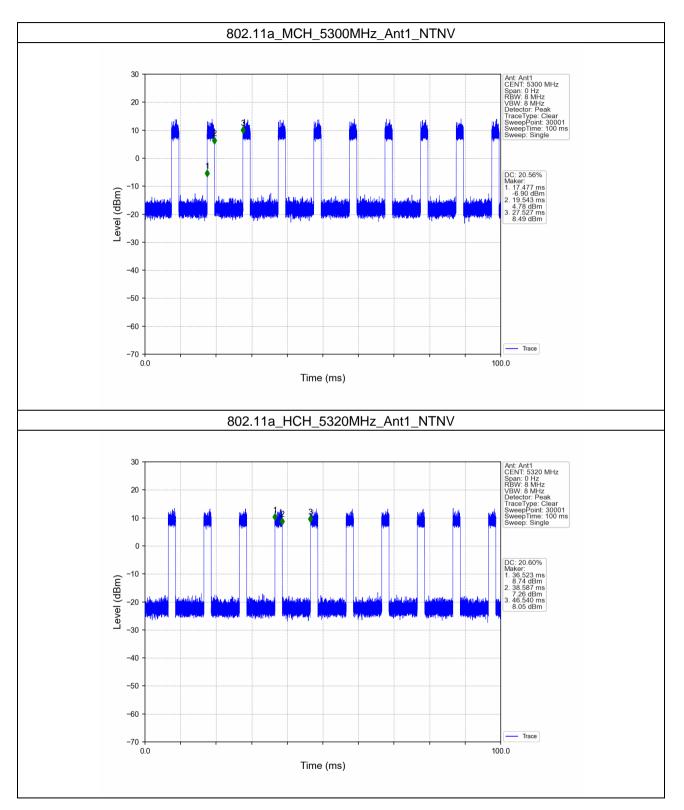
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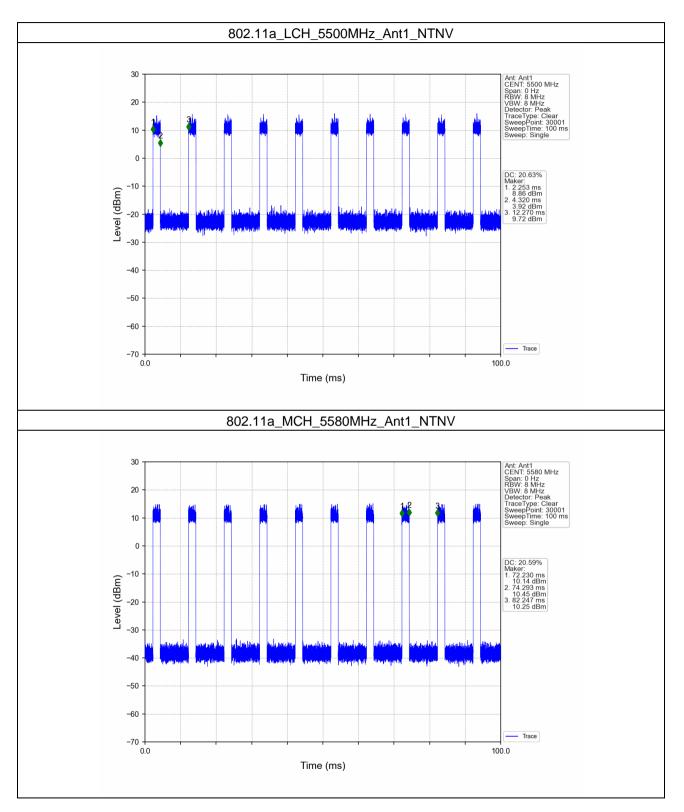
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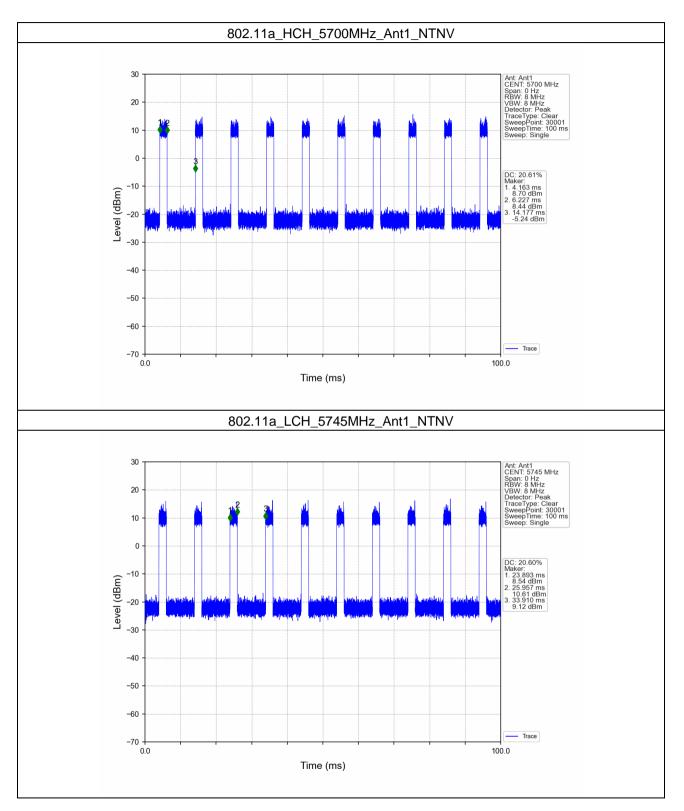
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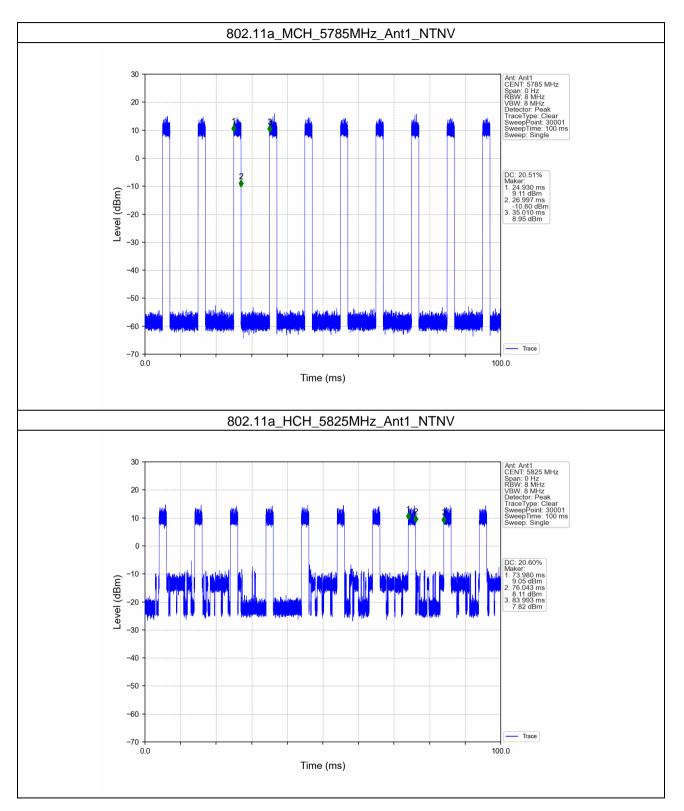
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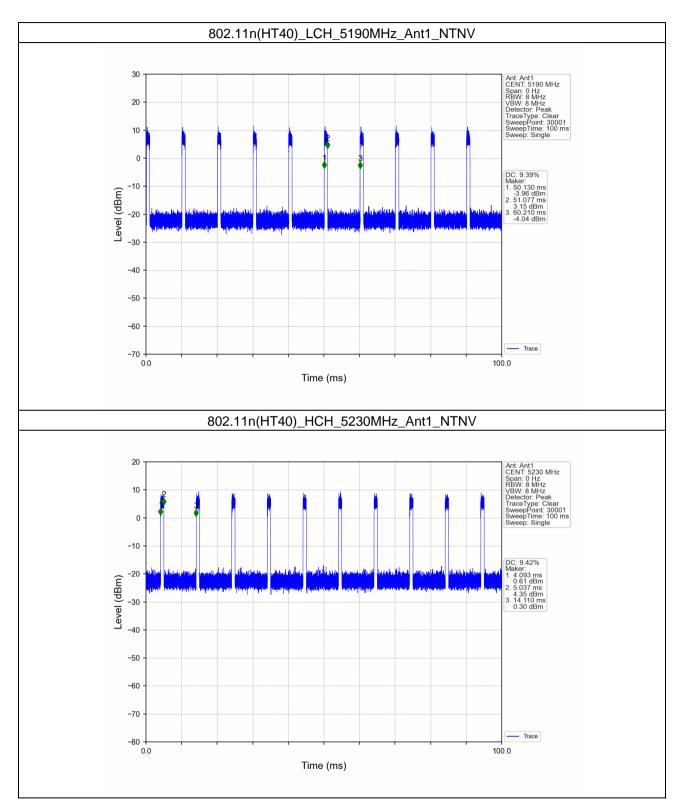
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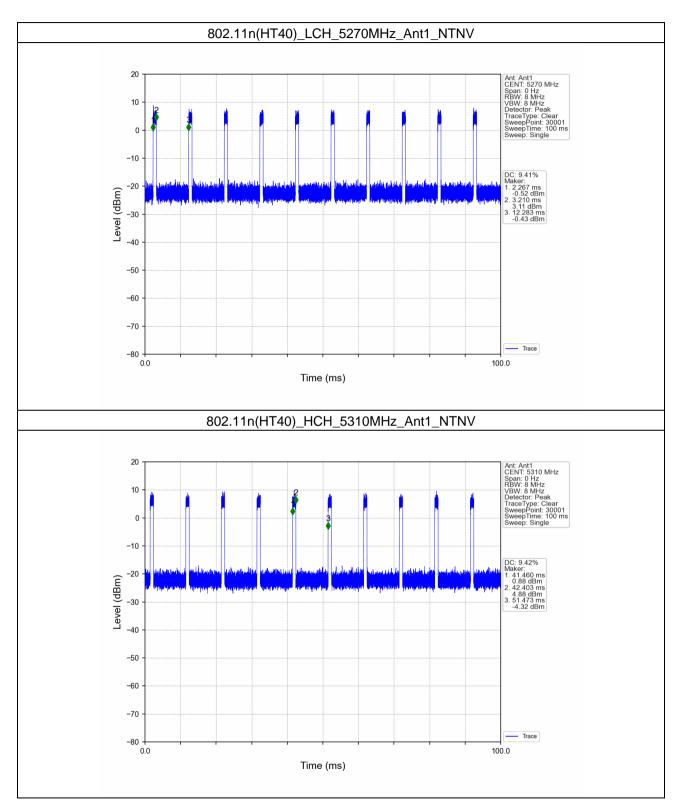
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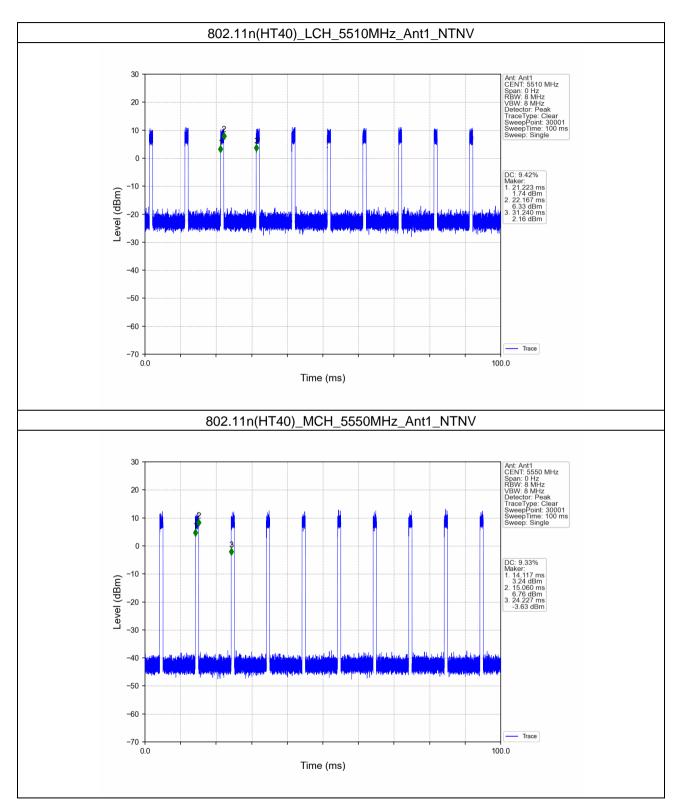
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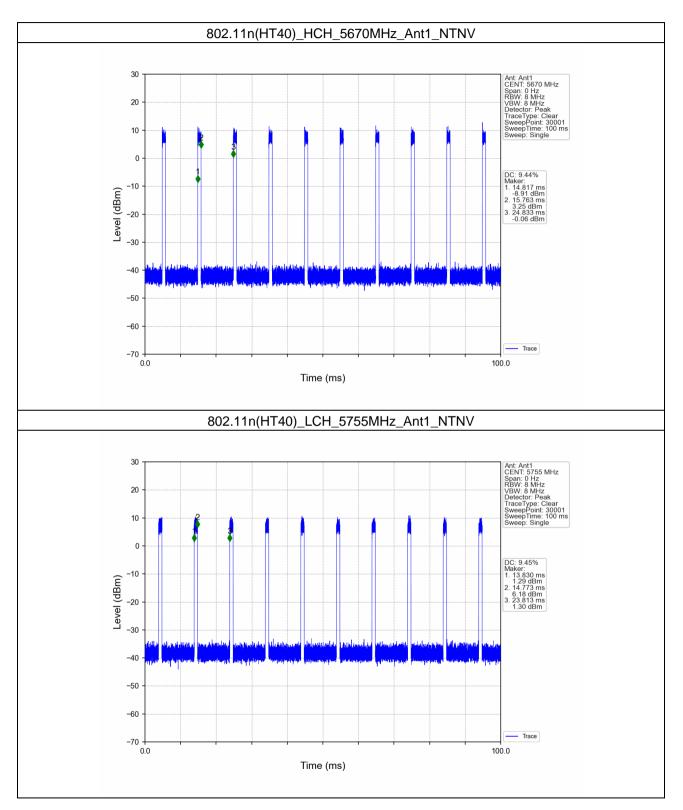
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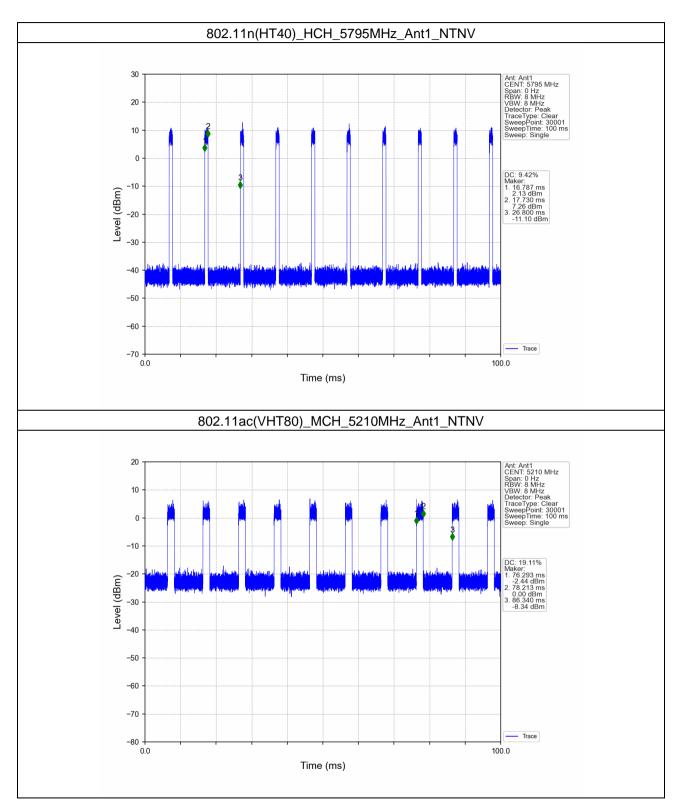
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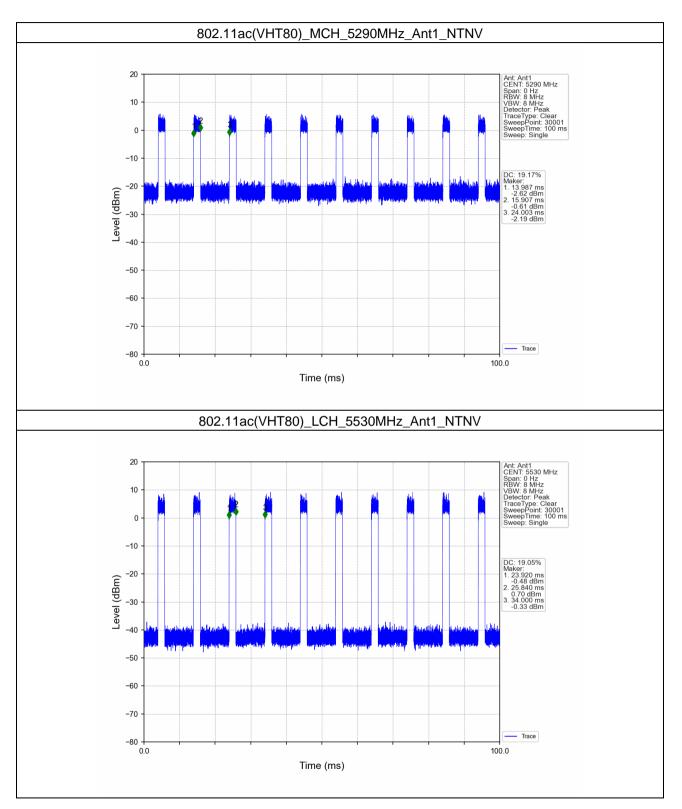
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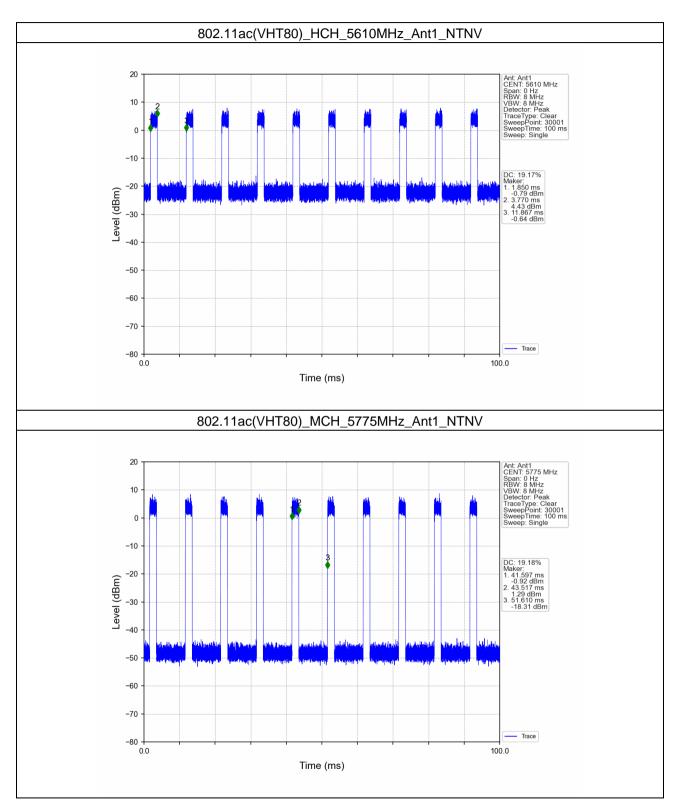
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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	ТХ Туре	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5180	1	16.655	Pass
		5200	1	16.657	Pass
		5240	1	16.638	Pass
		5260	1	16.676	Pass
		5300	1	16.647	Pass
		5320	1	16.715	Pass
		5500	1	16.680	Pass
		5580	1	16.723	Pass
		5700	1	16.674	Pass
		5745	1	16.650	Pass
		5785	1	16.657	Pass
		5825	1	16.681	Pass
802.11n (HT40)	SISO	5190	1	36.375	Pass
		5230	1	36.395	Pass
		5270	1	35.190	Pass
		5310	1	36.041	Pass
		5510	1	36.502	Pass
		5550	1	36.366	Pass
		5670	1	36.523	Pass
		5755	1	36.376	Pass
		5795	1	36.463	Pass
802.11ac (VHT80)	SISO	5210	1	75.080	Pass
		5290	1	74.946	Pass
		5530	1	75.169	Pass
		5610	1	75.219	Pass
		5775	1	75.176	Pass



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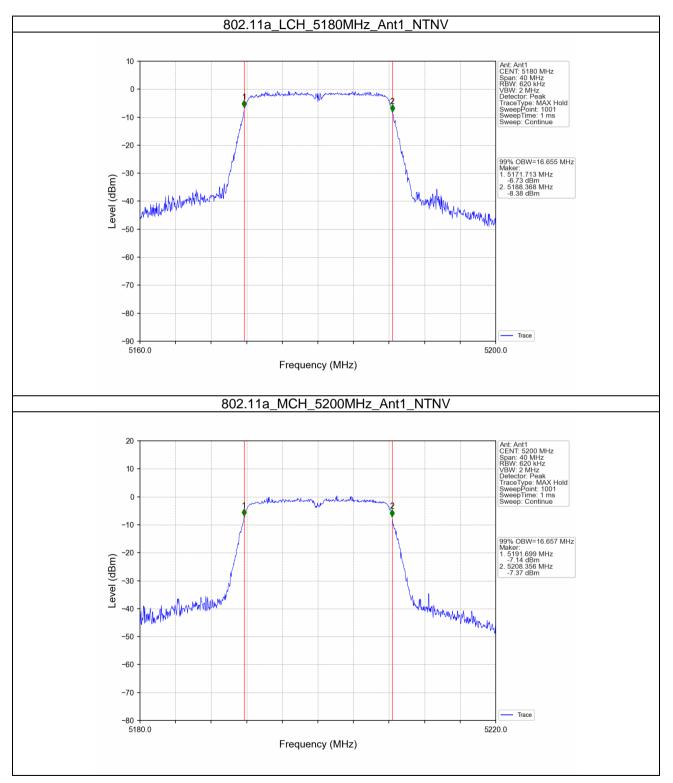
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2.1.2 Test Graph





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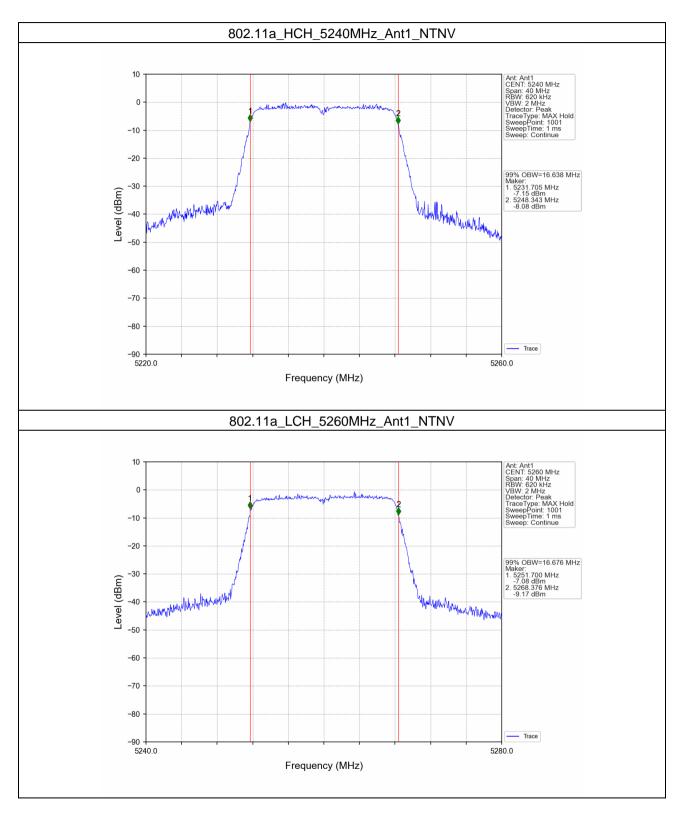
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