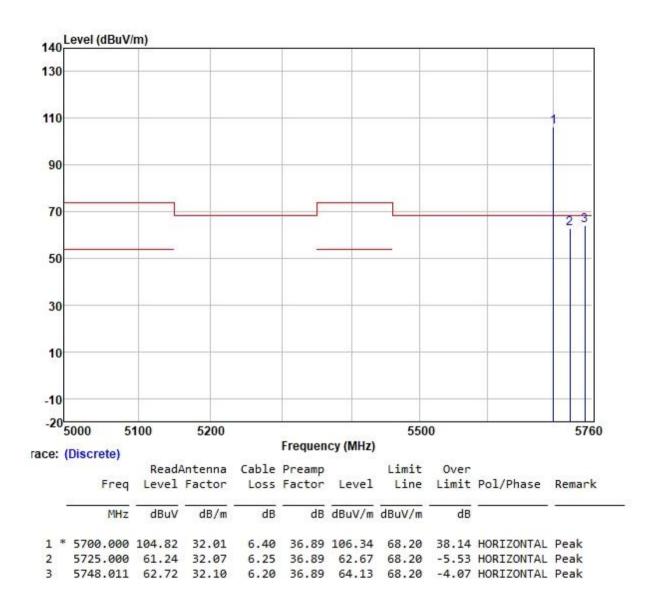


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High





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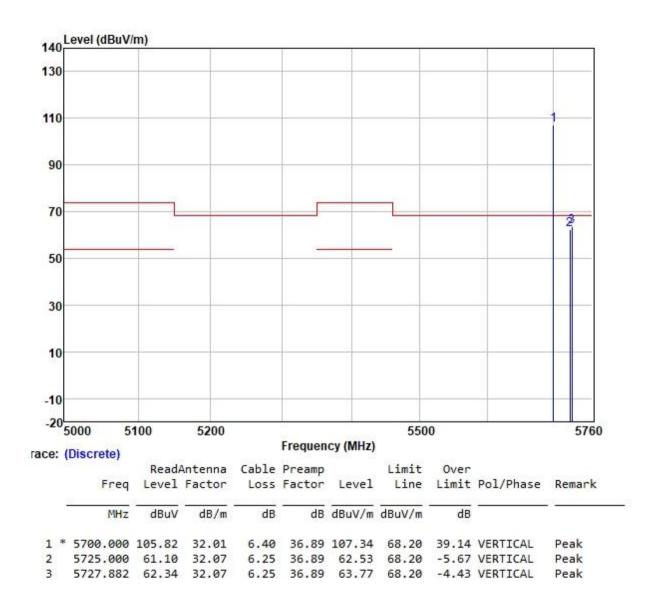
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Page: 109 of 640

Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High





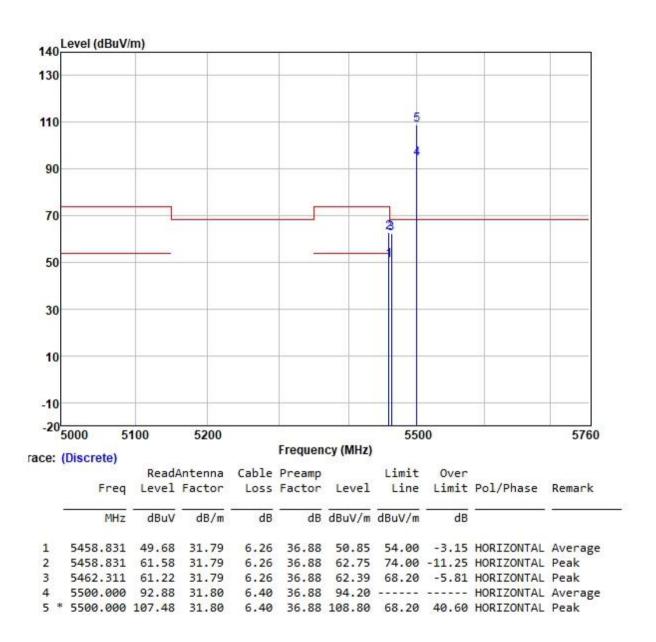
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low





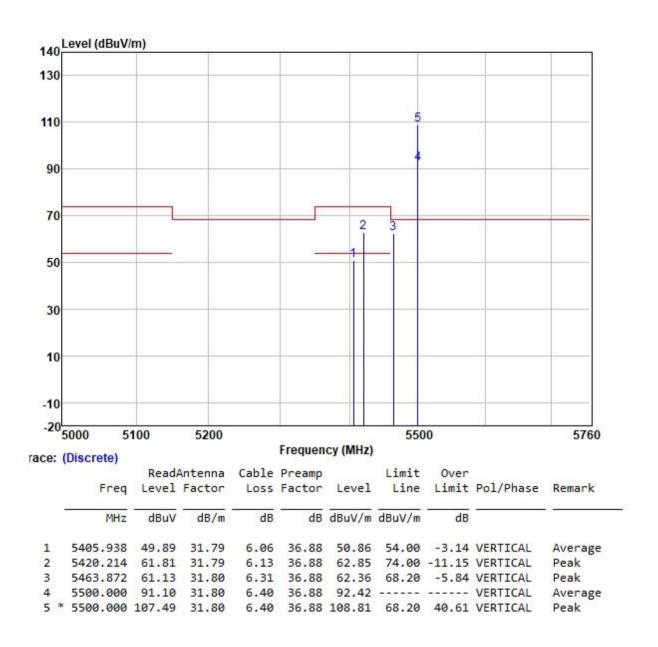
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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low





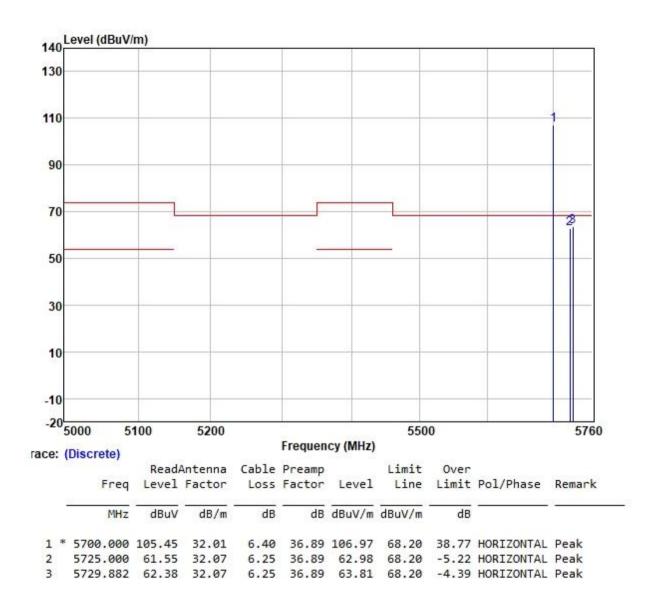
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High





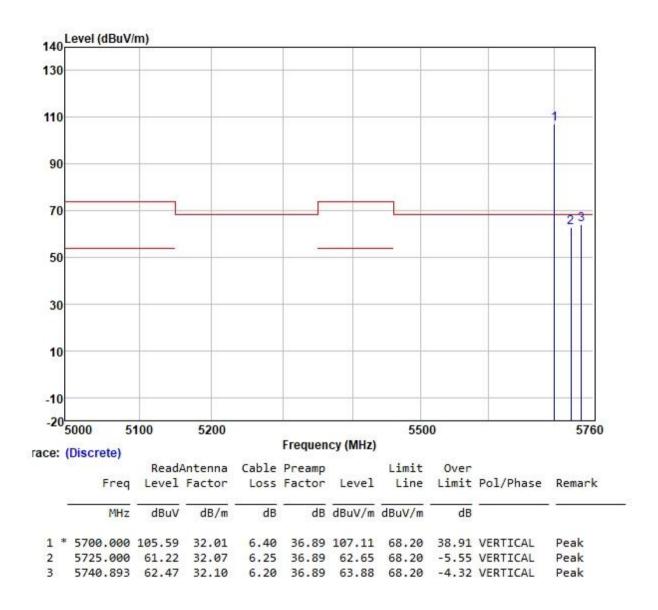
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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High





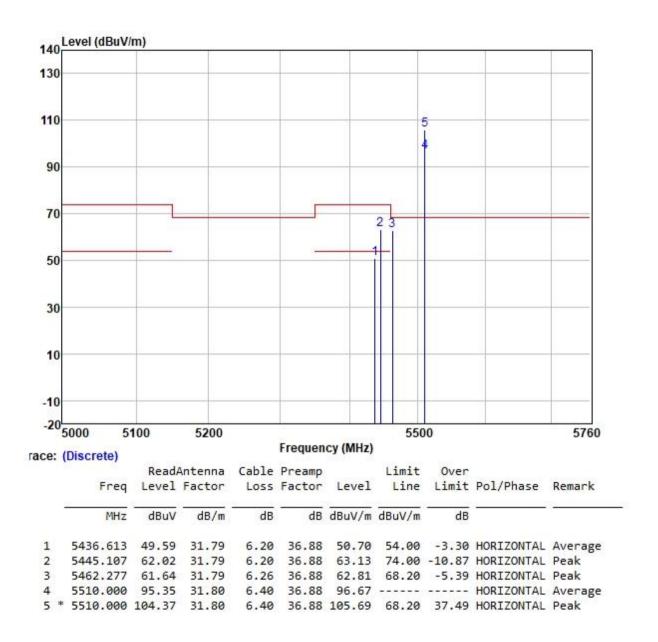
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low





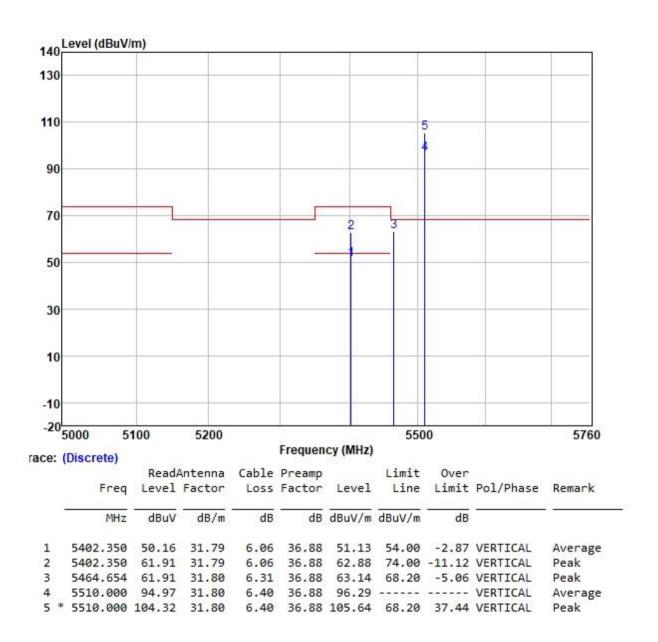
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Report No.: GZCR220400042502

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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low





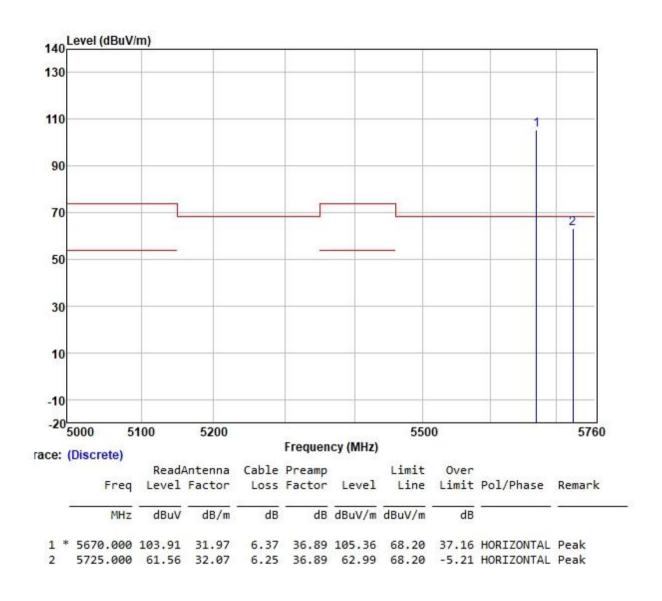
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High





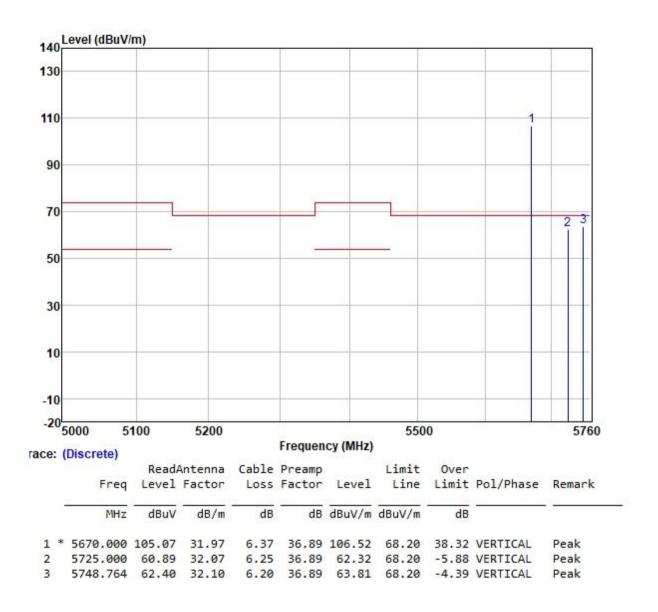
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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High





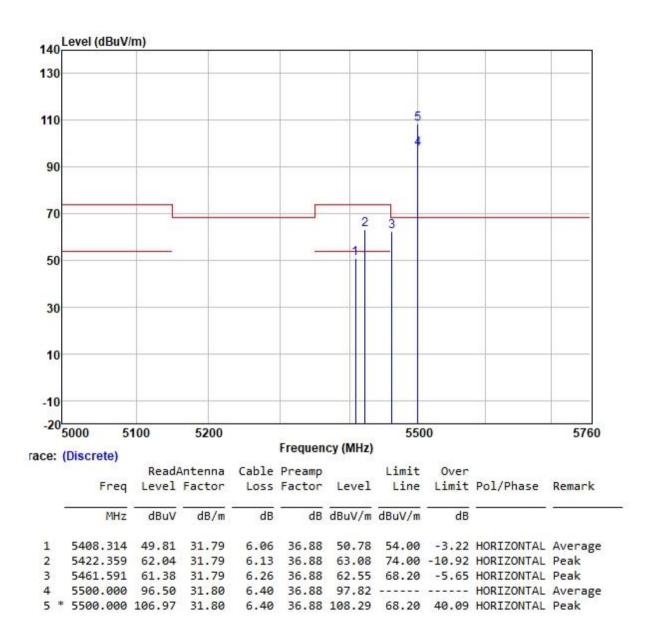
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low





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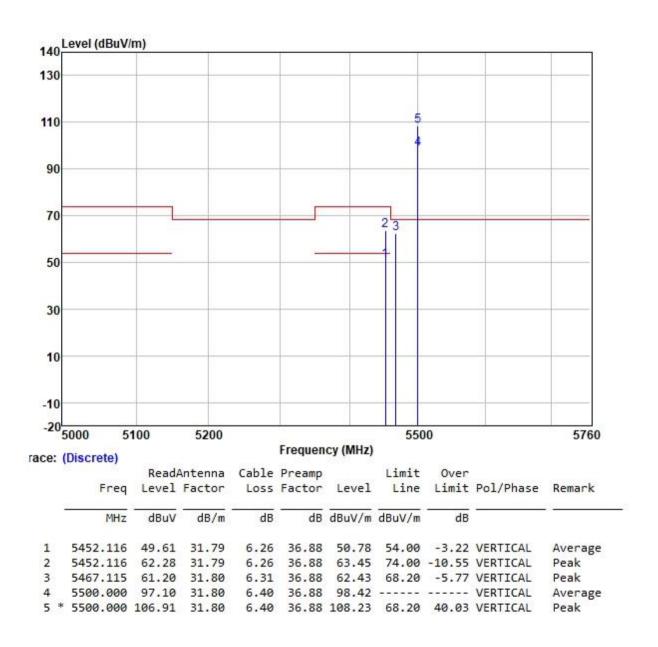
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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low





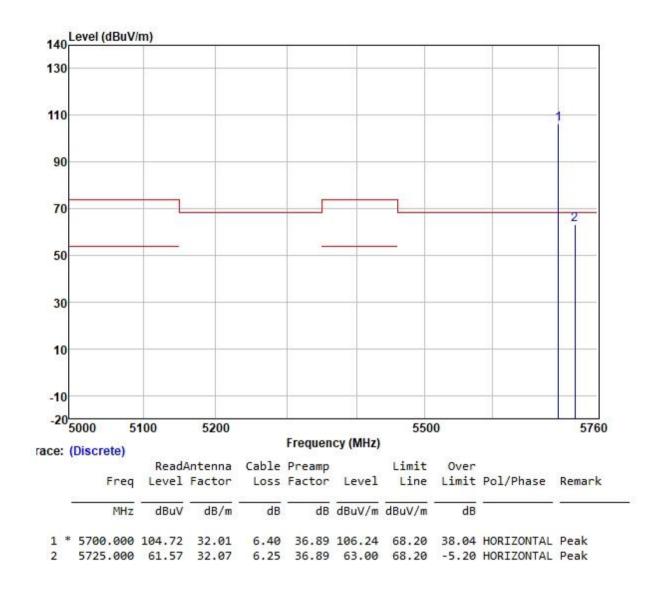
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High





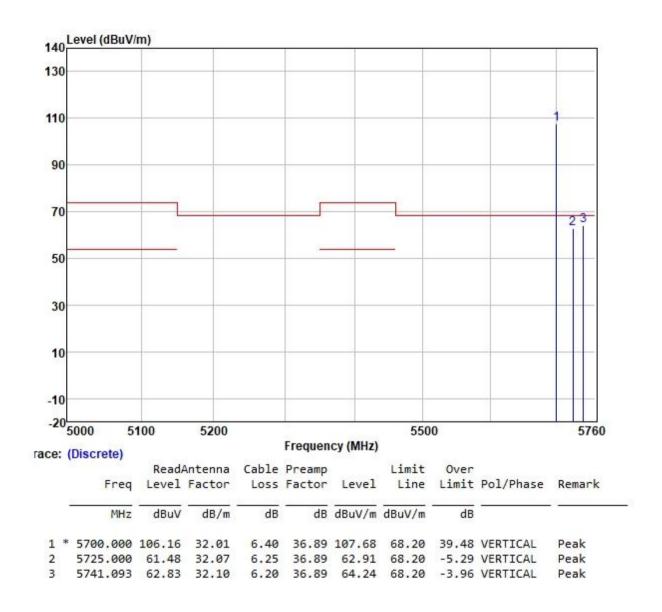
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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High





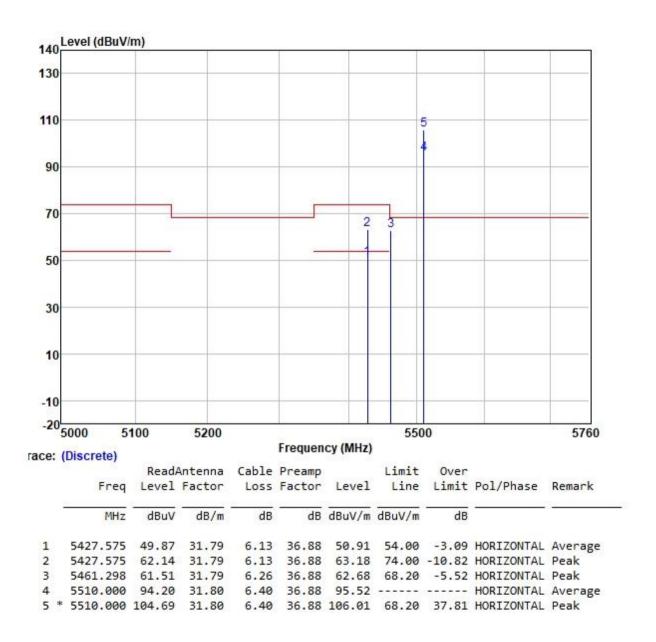
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low





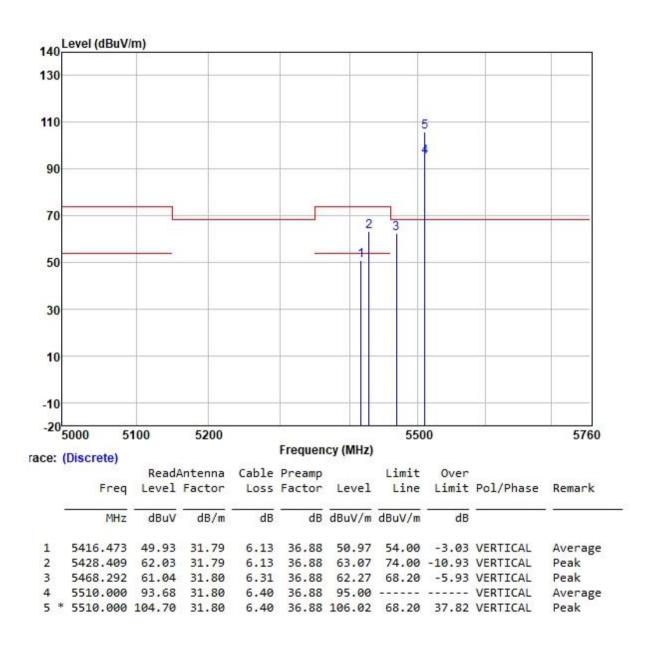
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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low





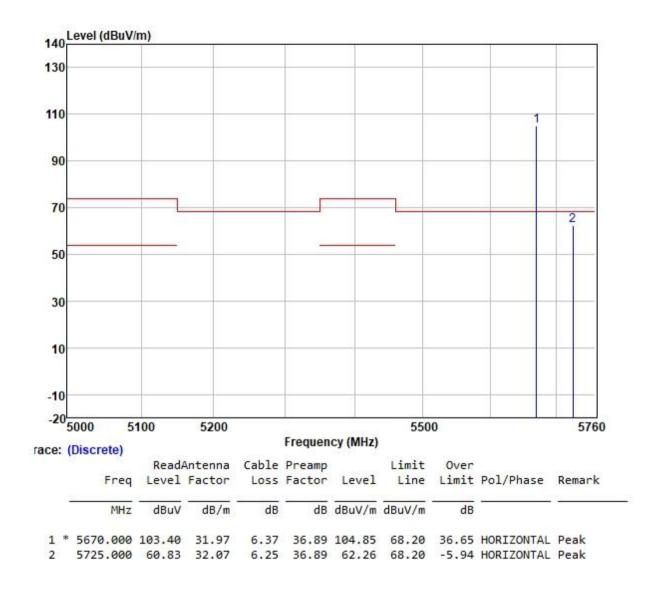
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High





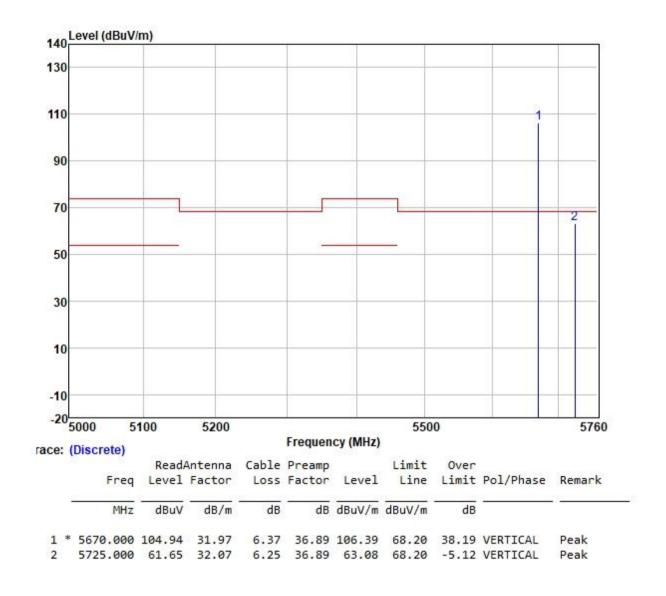
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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High





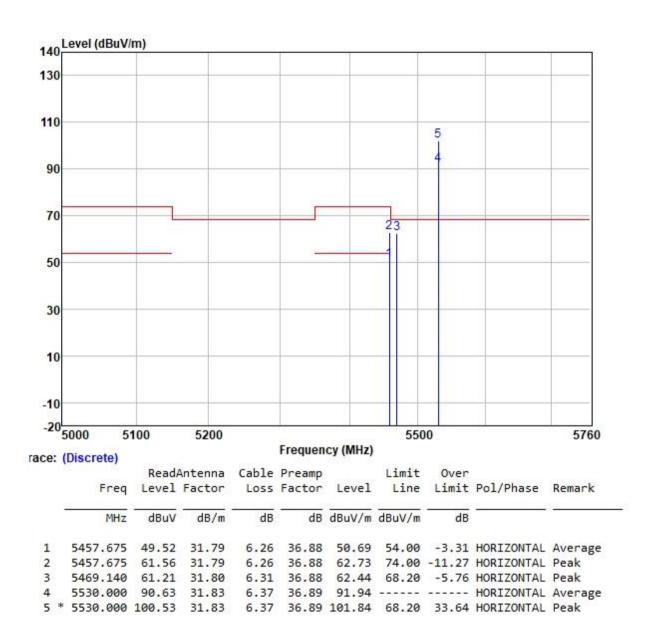
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low





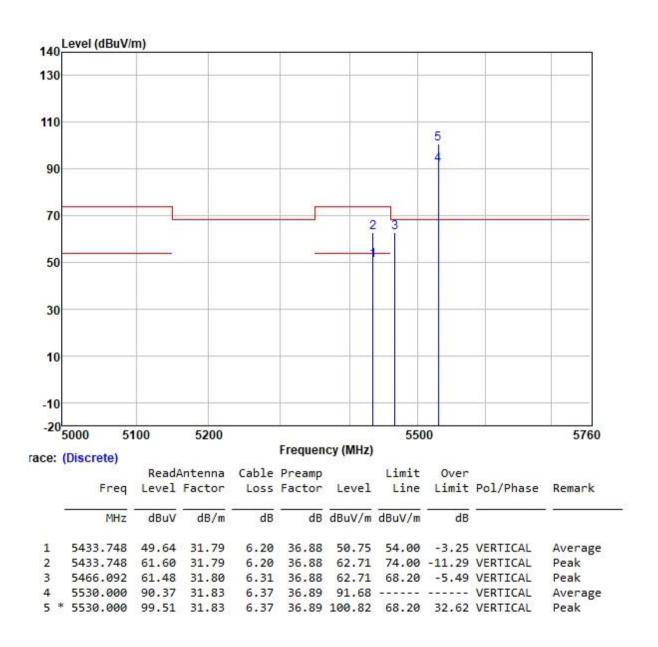
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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low





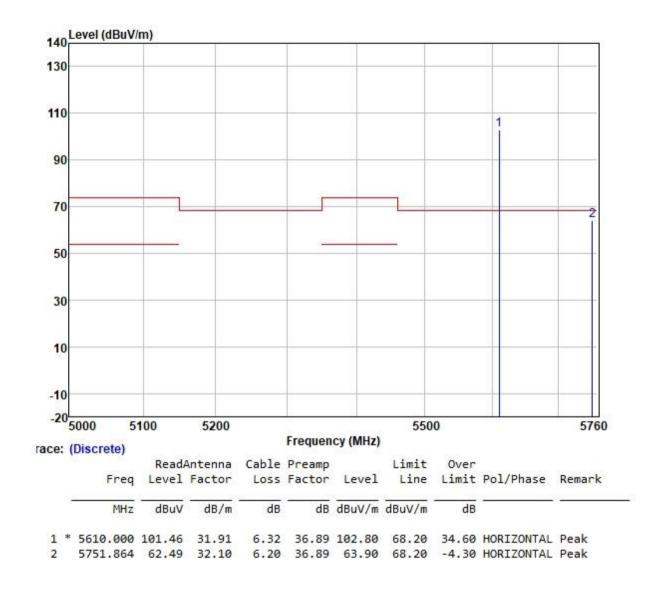
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High





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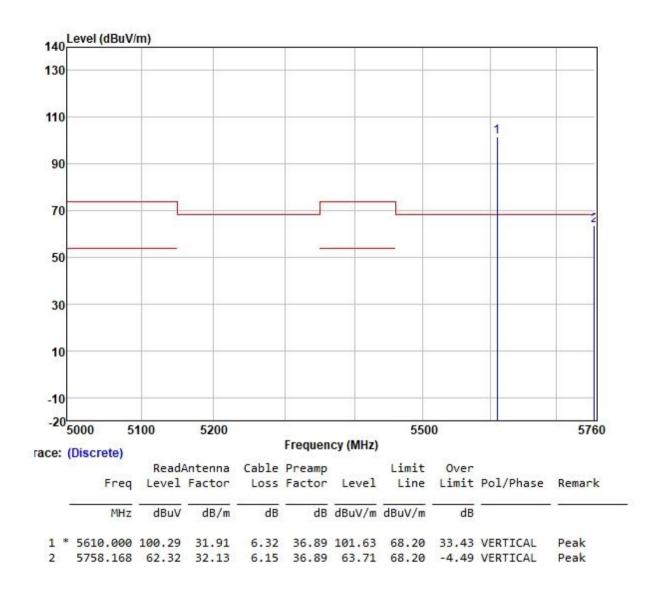
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Page: 129 of 640

Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High





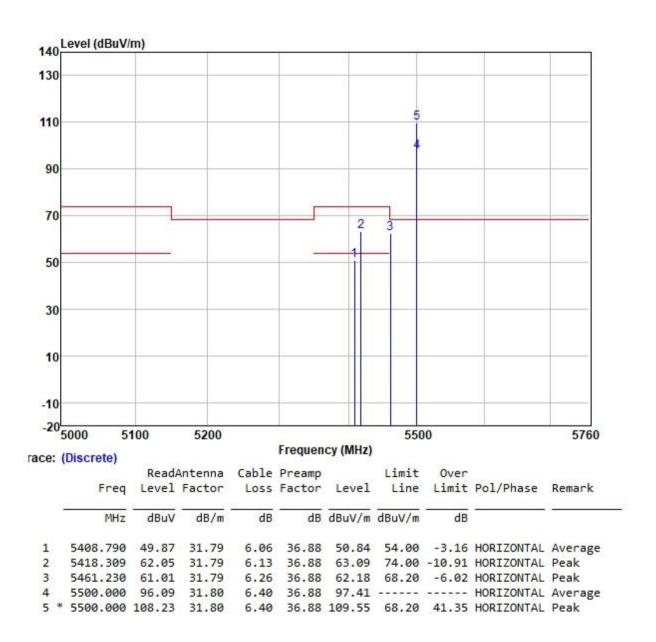
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Report No.: GZCR220400042502

Page: 130 of 640

Test Mode: 03; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:20MHz; Channel:Low





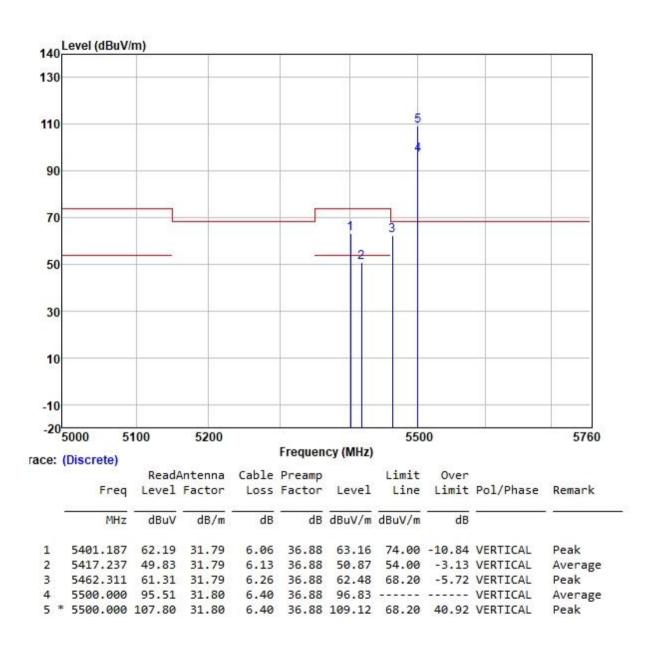
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Test Mode: 03; Polarity: Vertical; Modulation:802.11ax;Bandwidth:20MHz; Channel:Low





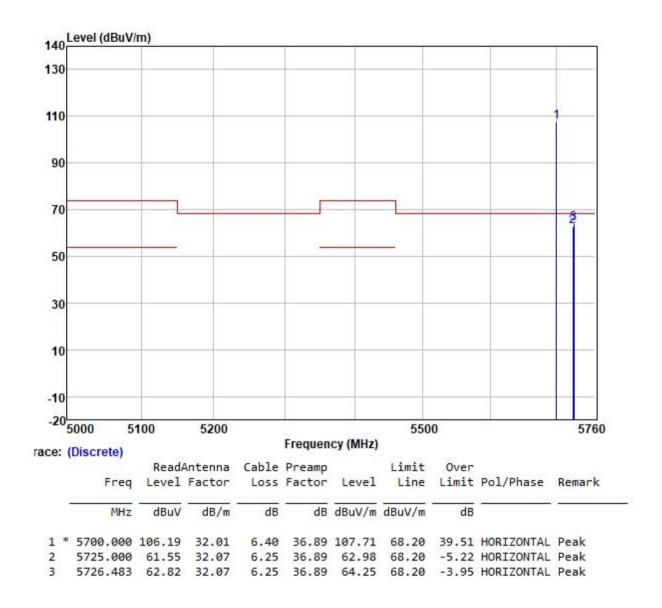
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:20MHz; Channel:High





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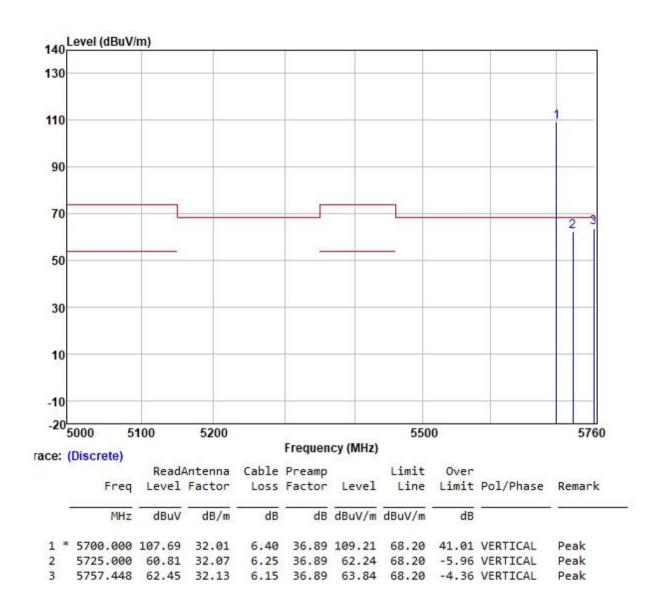
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Page: 133 of 640

Test Mode: 03; Polarity: Vertical; Modulation:802.11ax; Bandwidth:20MHz; Channel:High





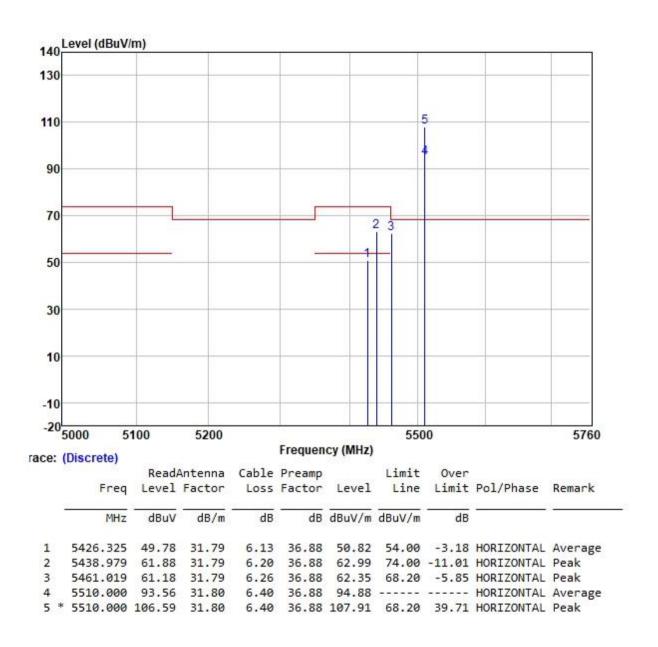
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:40MHz; Channel:Low





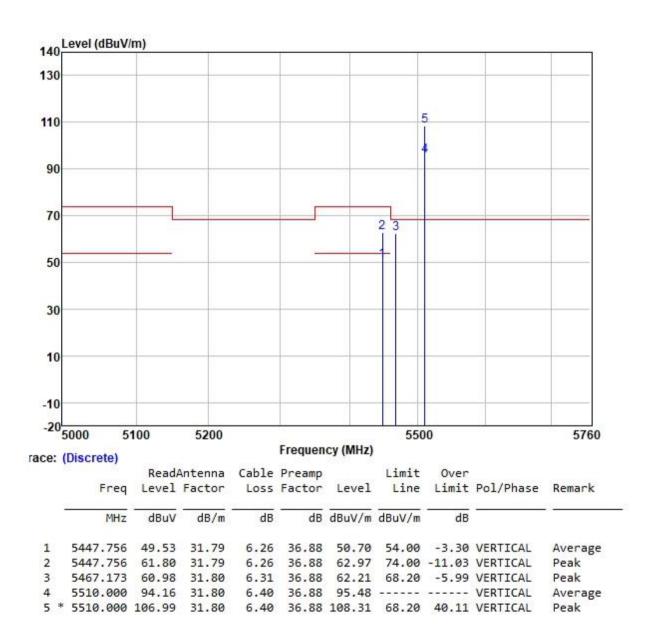
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Test Mode: 03; Polarity: Vertical; Modulation:802.11ax; Bandwidth:40MHz; Channel:Low





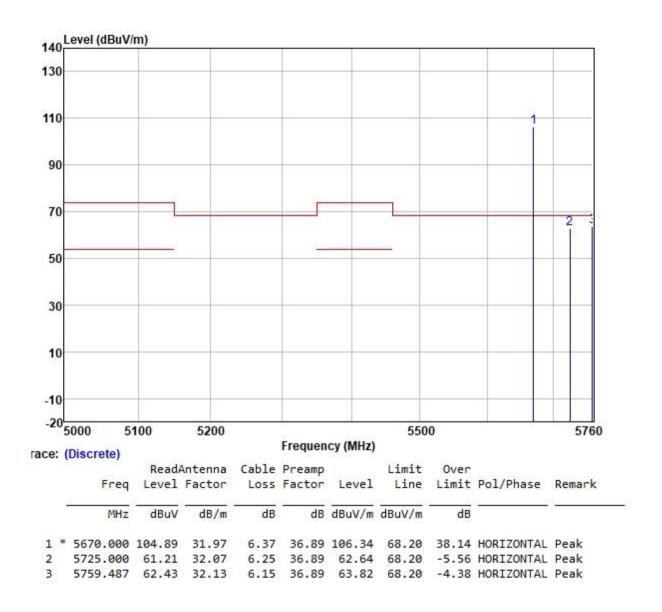
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ax; Bandwidth: 40MHz; Channel: High





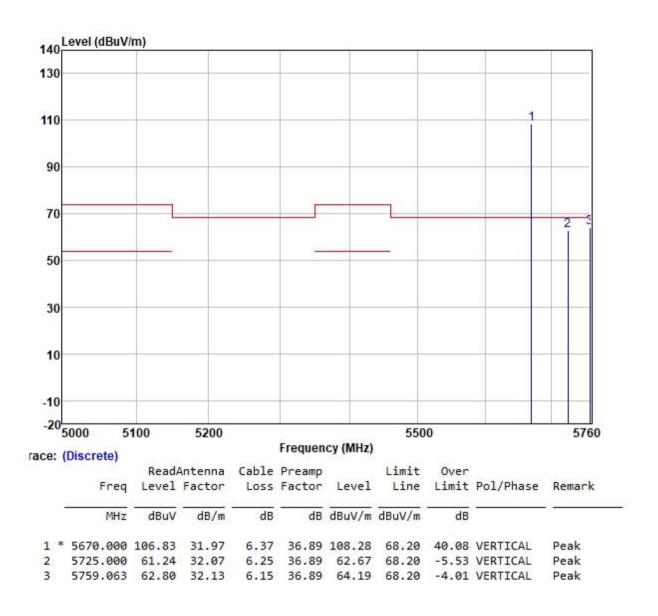
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Test Mode: 03; Polarity: Vertical; Modulation:802.11ax; Bandwidth: 40MHz; Channel: High





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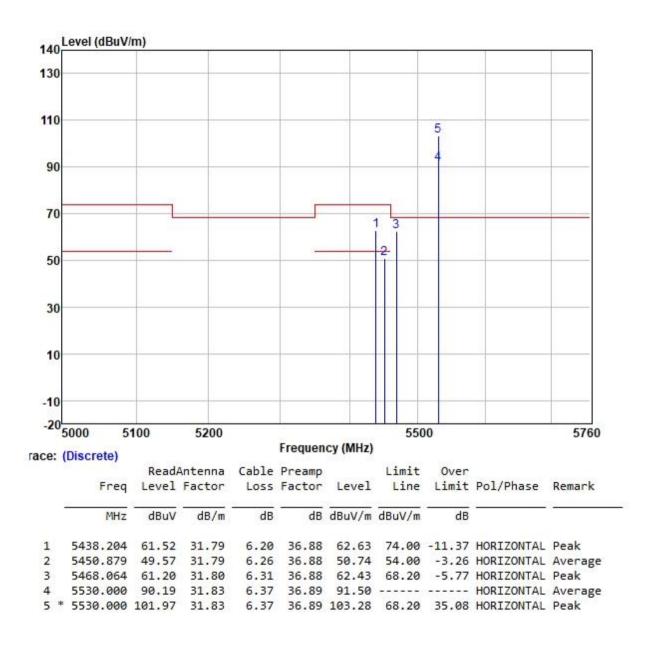
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Page: 138 of 640

Test Mode: 03; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:80MHz; Channel:Low





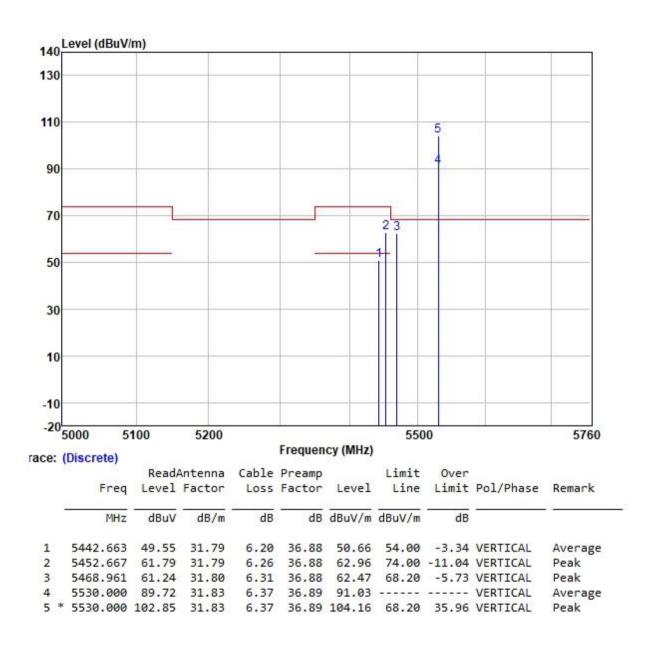
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Test Mode: 03; Polarity: Vertical; Modulation:802.11ax; Bandwidth:80MHz; Channel:Low





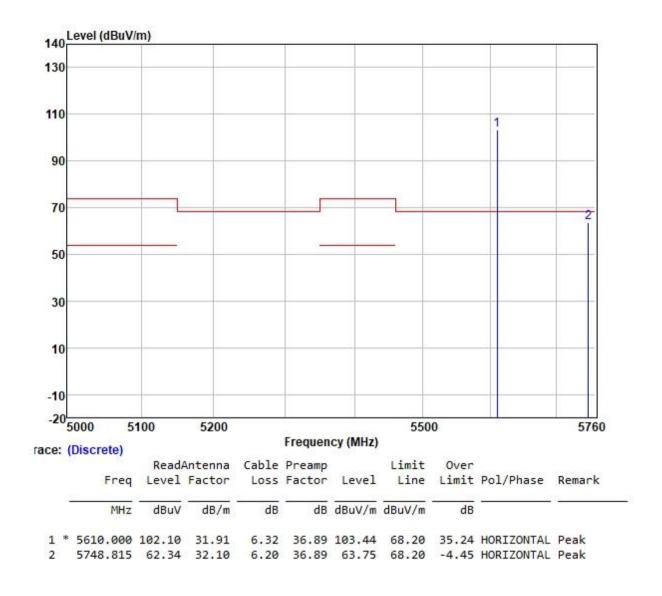
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:80MHz; Channel:High





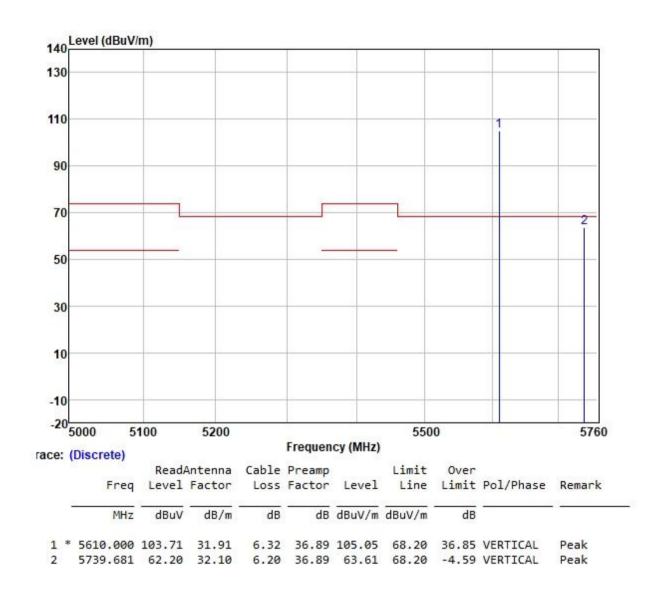
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Report No.: GZCR220400042502

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Test Mode: 03; Polarity: Vertical; Modulation:802.11ax; Bandwidth:80MHz; Channel:High





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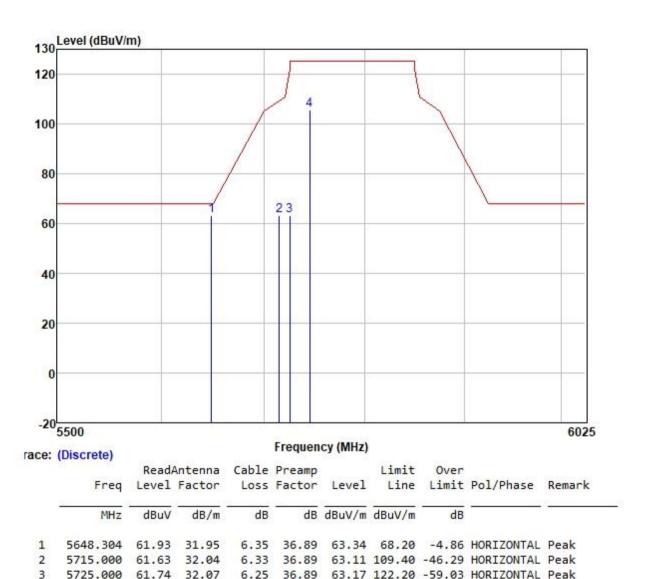
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low





5745.000 104.31 32.10

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6.20 36.89 105.72 125.20 -19.48 HORIZONTAL Peak

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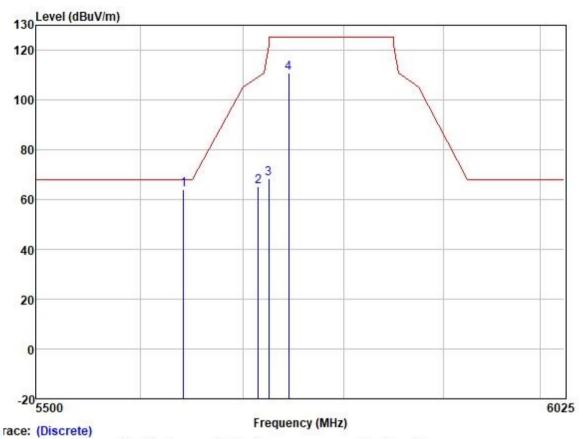
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Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



	20 20	ReadAntenna		Cable	Preamn		Limit	Over		
	Freq			Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
		dBuV								
1	5641.798	62.46	31.95	6.35	36.89	63.87	68.20	-4.33	VERTICAL	Peak
2	5715.000	63.78	32.04	6.33	36.89	65.26	109.40	-44.14	VERTICAL	Peak
3	5725.000	66.79	32.07	6.25	36.89	68.22	122.20	-53.98	VERTICAL	Peak
4	5745.000	109.27	32.10	6.20	36.89	110.68	125.20	-14.52	VERTICAL	Peak



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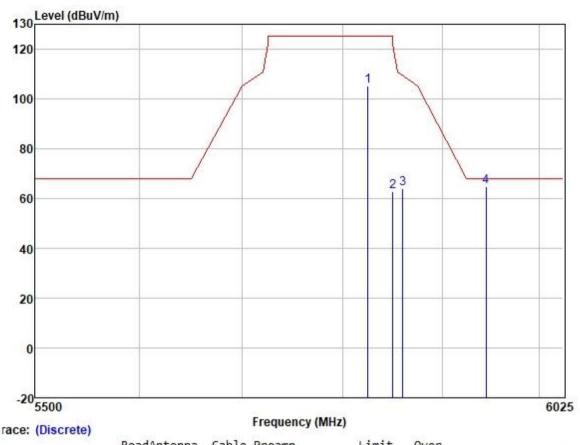
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Report No.: GZCR220400042502

Page: 144 of 640

Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



ace.	(Discrete)									
	Freq		Antenna Factor				Limit Line		Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5825.000	103.88	32.23	6.04	36.90	105.25	125.20	-19.95	HORIZONTAL	Peak
2	5850.000	61.63	32.25	6.00	36.90	62.98	122.20	-59.22	HORIZONTAL	Peak
3	5860.000	62.73	32.27	5.96	36.90	64.06	109.40	-45.34	HORIZONTAL	Peak

5944.843 63.42 32.36 6.05 36.90 64.93 68.20 -3.27 HORIZONTAL Peak



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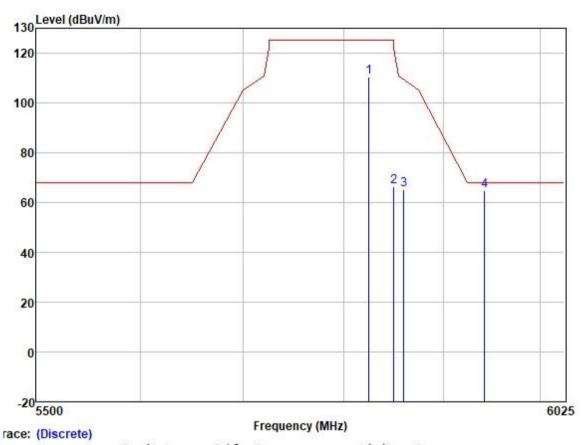
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Report No.: GZCR220400042502

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Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



	See		Antenna							20000000000000000000000000000000000000	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		3-	_
1	5825.000	108.90	32.23	6.04	36.90	110.27	125.20	-14.93	VERTICAL	Peak	
2	5850.000	65.13	32.25	6.00	36.90	66.48	122.20	-55.72	VERTICAL	Peak	
3	5860.000	63.71	32.27	5.96	36.90	65.04	109.40	-44.36	VERTICAL	Peak	
4	5942.488	63.31	32.36	6.05	36.90	64.82	68.20	-3.38	VERTICAL	Peak	



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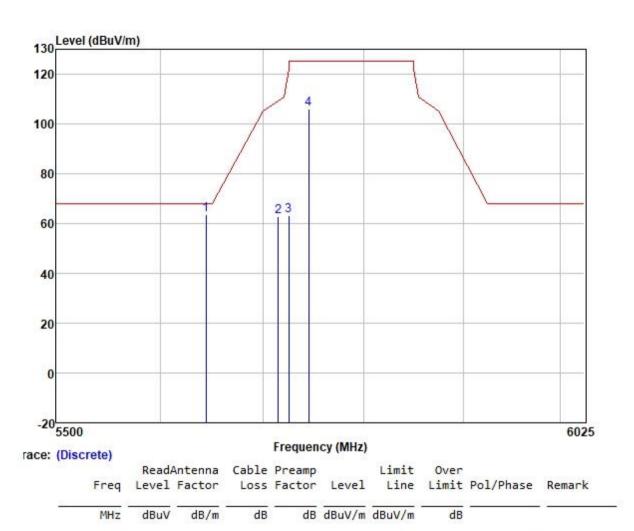
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Report No.: GZCR220400042502

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low





1

2

5644.150 62.11 31.95

5715.000 61.17 32.04

5725.000 61.83 32.07

5745.000 104.41 32.10

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6.35 36.89 63.52 68.20 -4.68 HORIZONTAL Peak

6.33 36.89 62.65 109.40 -46.75 HORIZONTAL Peak

6.20 36.89 105.82 125.20 -19.38 HORIZONTAL Peak

6.25 36.89 63.26 122.20 -58.94 HORIZONTAL Peak

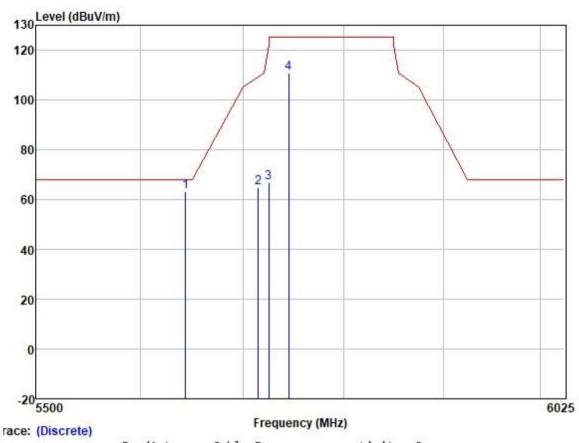
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Report No.: GZCR220400042502

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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



	Freq		Antenna Factor						Pol/Phase	Remark	
	MHz	dBuV	dB/m	——dB	——dB	dBuV/m	dBuV/m	dB	(1 <u>4</u>	7816	_
1	5643.735	61.95	31.95	6.35	36.89	63.36	68.20	-4.84	VERTICAL	Peak	
2	5715.000	63.18	32.04	6.33	36.89	64.66	109.40	-44.74	VERTICAL	Peak	
3	5725.000	65.20	32.07	6.25	36.89	66.63	122.20	-55.57	VERTICAL	Peak	
4	5745.000	109.40	32.10	6.20	36.89	110.81	125.20	-14.39	VERTICAL	Peak	



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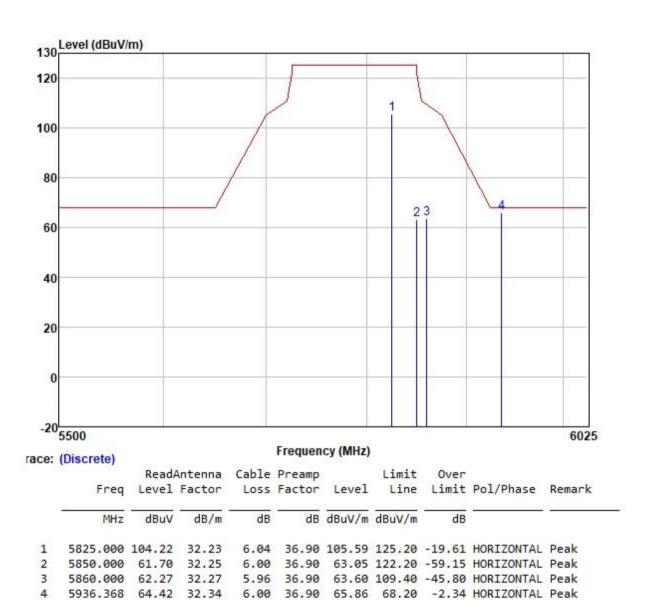
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Page: 148 of 640

Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High





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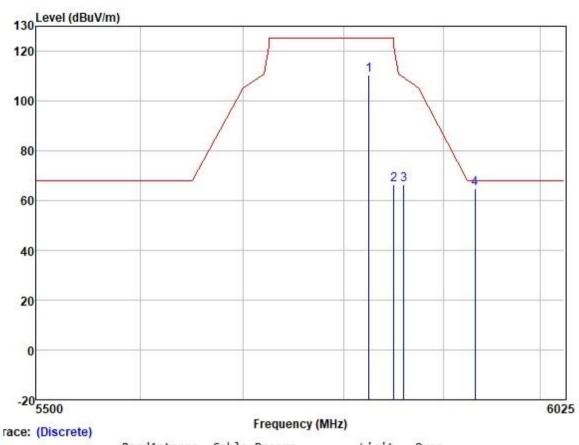
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Report No.: GZCR220400042502

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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



ice:	(Discrete)			Frequency (MHz)
	(5.55.515)	ReadAntenna	Cable	Dreamn

		Read	Antenna	Cable	Preamp		Limit	Over			
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		38 <u>4</u>	_
1	5825.000	108.97	32.23	6.04	36.90	110.34	125.20	-14.86	VERTICAL	Peak	
2	5850.000	64.87	32.25	6.00	36.90	66.22	122.20	-55.98	VERTICAL	Peak	
3	5860.000	64.95	32.27	5.96	36.90	66.28	109.40	-43.12	VERTICAL	Peak	
4	5932.762	63.35	32.34	6.00	36.90	64.79	68.20	-3.41	VERTICAL	Peak	



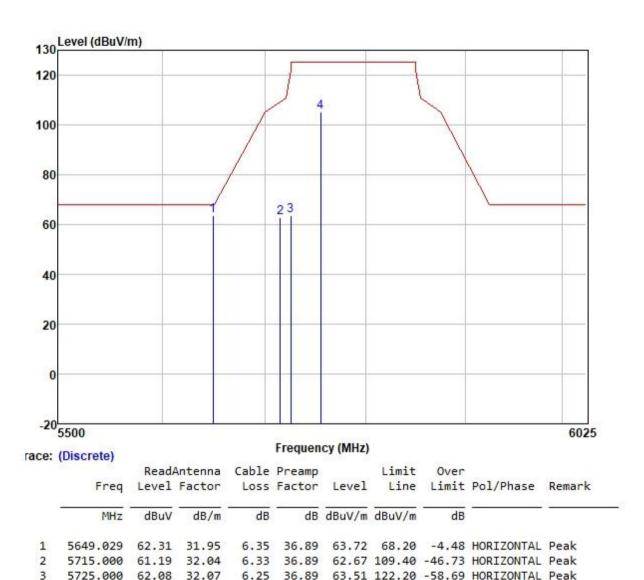
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Report No.: GZCR220400042502

Page: 150 of 640

Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low





5755.000 103.79 32.10

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6.20 36.89 105.20 125.20 -20.00 HORIZONTAL Peak

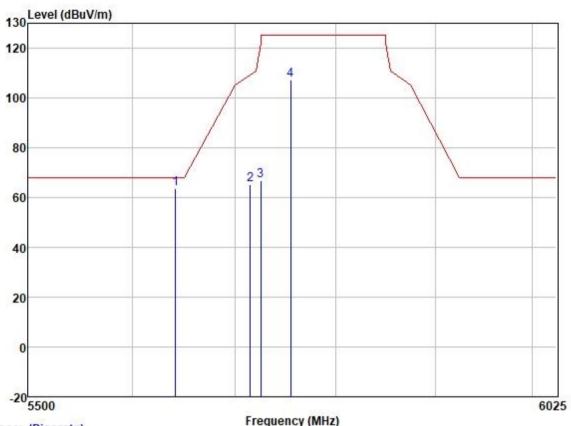
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Report No.: GZCR220400042502

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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



race: (Discrete)	Frequency (MH:
lace. (Discrete)	

	20 20	Read	Antenna	Cable	Preamp		Limit	Over		
	Freq								Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	1	200
1	5641.376	62.19	31.95	6.35	36.89	63.60	68.20	-4.60	VERTICAL	Peak
2	5715.000	63.57	32.04	6.33	36.89	65.05	109.40	-44.35	VERTICAL	Peak
3	5725.000	65.18	32.07	6.25	36.89	66.61	122.20	-55.59	VERTICAL	Peak
4	5755.000	105.82	32.10	6.20	36.89	107.23	125.20	-17.97	VERTICAL	Peak



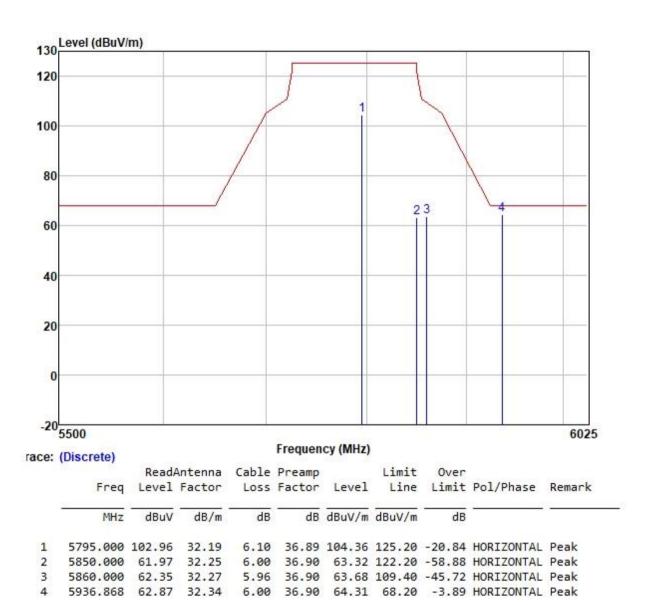
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Report No.: GZCR220400042502

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High





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Report No.: GZCR220400042502

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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High





1

2

3

5795.000 106.69 32.19

5850.000 63.95 32.25

5860.000 63.99 32.27

5928.544 63.10 32.34

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6.10 36.89 108.09 125.20 -17.11 VERTICAL

6.00 36.90 65.30 122.20 -56.90 VERTICAL

6.00 36.90 64.54 68.20 -3.66 VERTICAL

5.96 36.90 65.32 109.40 -44.08 VERTICAL

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Peak

Peak

Peak

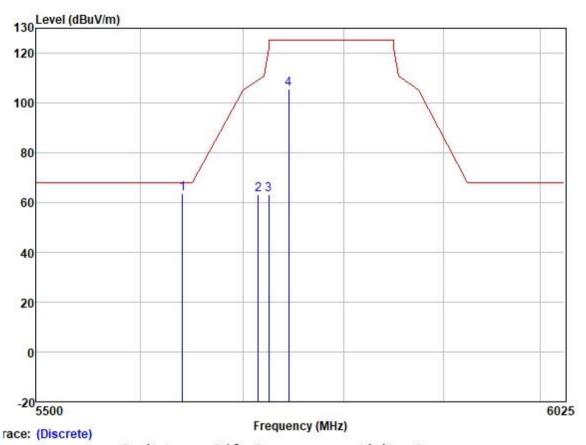
Peak



Report No.: GZCR220400042502

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



		ReadAntenna		Cable	Preamp		Limit	0ver		0 - 100 00 00 00 00 00 00 00 00 00 00 00 00	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	3	<u> </u>	_
1	5640.830	62.38	31.95	6.35	36.89	63.79	68.20	-4.41	HORIZONTAL	Peak	
2	5715.000	61.86	32.04	6.33	36.89	63.34	109.40	-46.06	HORIZONTAL	Peak	
3	5725.000	61.84	32.07	6.25	36.89	63.27	122.20	-58.93	HORIZONTAL	Peak	
4	5745.000	104.23	32.10	6.20	36.89	105.64	125.20	-19.56	HORIZONTAL	Peak	



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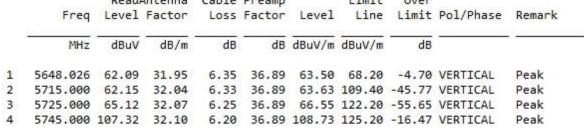


Report No.: GZCR220400042502

Page: 155 of 640

Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low







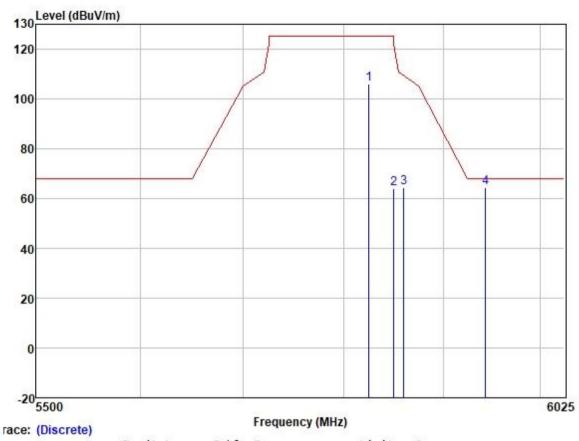
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Report No.: GZCR220400042502

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



	20 20	Read	Antenna	Cable	Preamp		Limit	Over		
	Freq								Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		3 <u>4</u>
1	5825.000	104.44	32.23	6.04	36.90	105.81	125.20	-19.39	HORIZONTAL	Peak
2	5850.000	62.51	32.25	6.00	36.90	63.86	122.20	-58.34	HORIZONTAL	Peak
3	5860.000	63.13	32.27	5.96	36.90	64.46	109.40	-44.94	HORIZONTAL	Peak
4	5943.586	62.80	32.36	6.05	36.90	64.31	68.20	-3.89	HORTZONTAL	Peak



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Report No.: GZCR220400042502

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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



ce.	(Discrete)									
	Freq		Antenna Factor						Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5825.000	107.26	32.23	6.04	36.90	108.63	125.20	-16.57	VERTICAL	Peak
2	5850.000	62.02	32.25	6.00	36.90	63.37	122.20	-58.83	VERTICAL	Peak
3	5860.000	62.22	32.27	5.96	36.90	63.55	109.40	-45.85	VERTICAL	Peak
4	5936.996	63.69	32.34	6.00	36.90	65.13	68.20	-3.07	VERTICAL	Peak



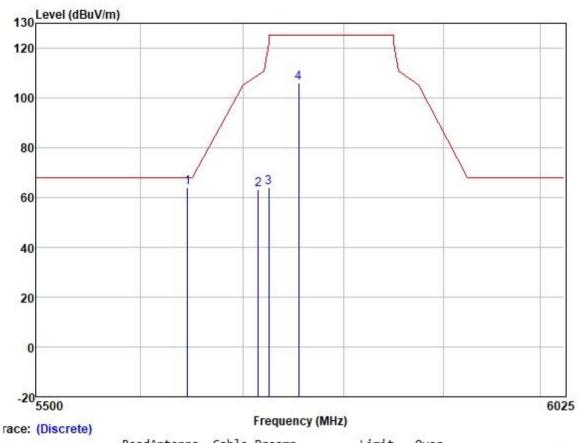
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Report No.: GZCR220400042502

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



	Freq		Antenna Factor						Pol/Phase	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		32	
1	5645.354	62.64	31.95	6.35	36.89	64.05	68.20	-4.15	HORIZONTAL	Peak	
2	5715.000	61.67	32.04	6.33	36.89	63.15	109.40	-46.25	HORIZONTAL	Peak	
3	5725.000	62.65	32.07	6.25	36.89	64.08	122.20	-58.12	HORIZONTAL	Peak	
4	5755.000	104.56	32.10	6.20	36.89	105.97	125.20	-19.23	HORIZONTAL	Peak	



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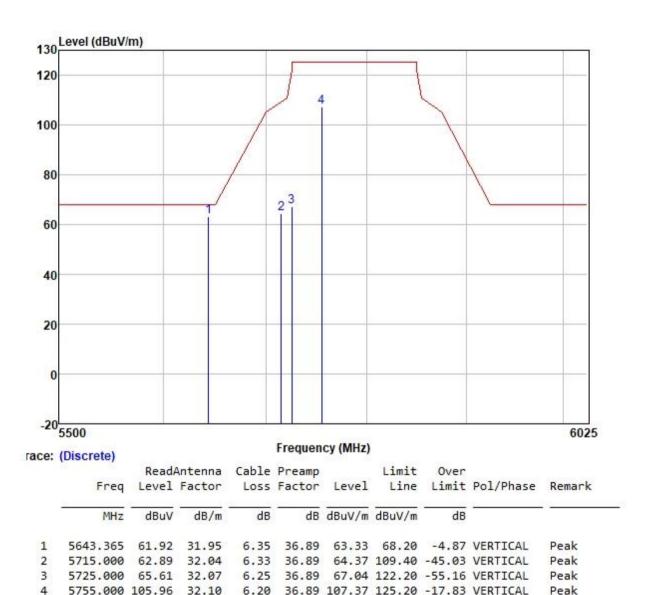
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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low





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Report No.: GZCR220400042502

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



	20 20 X	ReadAntenna			Preamp		Limit	Over		1 200000
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		5 <u>4</u>
1	5795.000	102.64	32.19	6.10	36.89	104.04	125.20	-21.16	HORIZONTAL	Peak
2	5850.000	62.00	32.25	6.00	36.90	63.35	122.20	-58.85	HORIZONTAL	Peak
3	5860.000	62.36	32.27	5.96	36.90	63.69	109.40	-45.71	HORIZONTAL	Peak
4	5941.339	63.27	32.36	6.05	36.90	64.78	68.20	-3.42	HORIZONTAL	Peak



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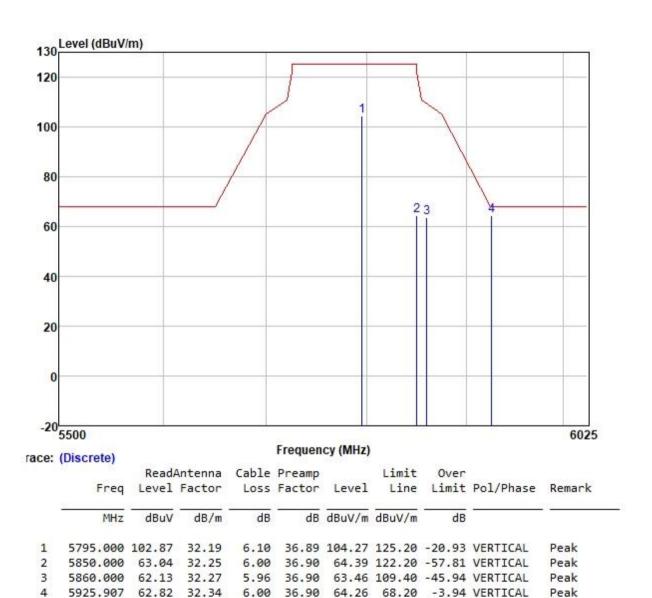
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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High





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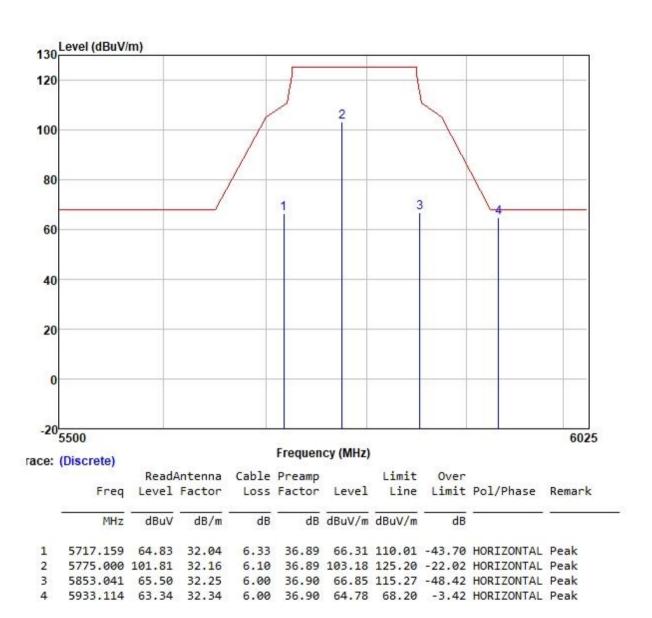
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle





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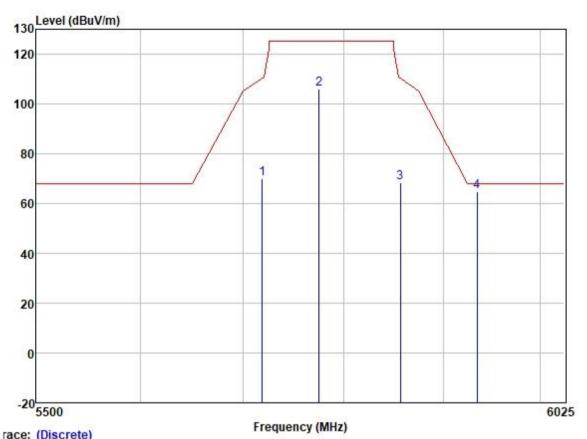
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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



acc.	(Discicto)									
	Freq		Antenna Factor				Limit Line	100000000000000000000000000000000000000	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5718.966	68.38	32.04	6.33	36.89	69.86	110.51	-40.65	VERTICAL	Peak
2	5775.000	104.64	32.16	6.10	36.89	106.01	125.20	-19.19	VERTICAL	Peak
3	5856.741	67.01	32.27	5.96	36.90	68.34	110.31	-41.97	VERTICAL	Peak
4	5934.677	63.24	32.34	6.00	36.90	64.68	68.20	-3.52	VERTICAL	Peak



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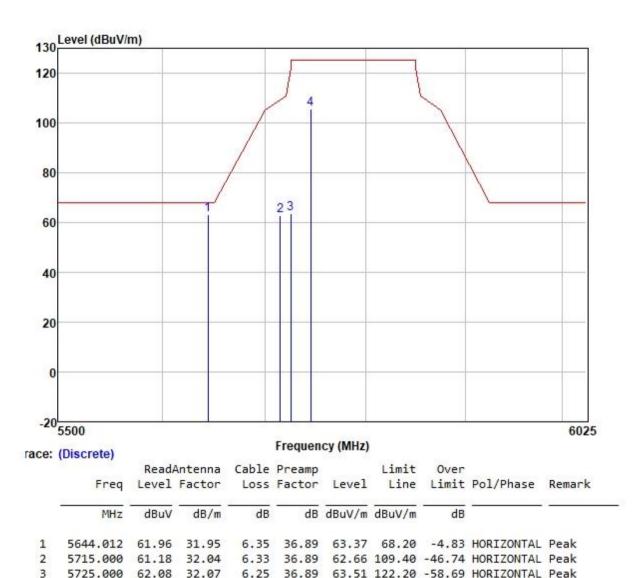
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:20MHz; Channel:Low





5745.000 104.03 32.10

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6.20 36.89 105.44 125.20 -19.76 HORIZONTAL Peak

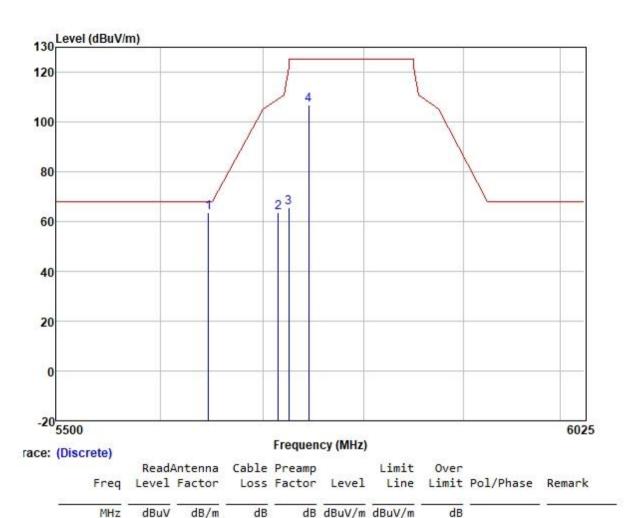
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Test Mode: 04; Polarity: Vertical; Modulation:802.11ax; Bandwidth:20MHz; Channel:Low





1

2

3

5646.642 62.14 31.95

5715.000 62.29 32.04

5725.000 64.15 32.07

5745.000 105.45 32.10

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6.35 36.89 63.55 68.20 -4.65 VERTICAL

6.33 36.89 63.77 109.40 -45.63 VERTICAL

6.20 36.89 106.86 125.20 -18.34 VERTICAL

6.25 36.89 65.58 122.20 -56.62 VERTICAL

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Peak

Peak

Peak

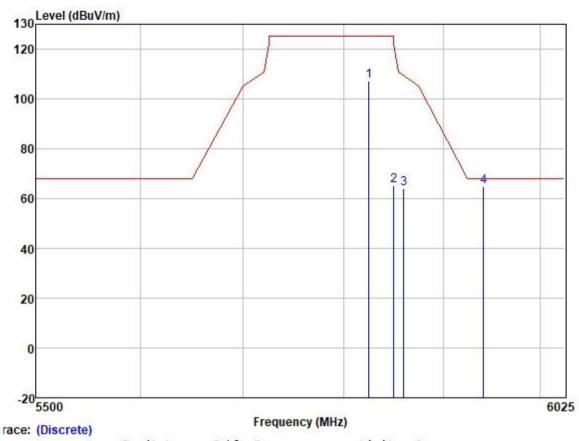
Peak



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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:20MHz; Channel:High



	Freq		Antenna Factor						Pol/Phase	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	3	8 <u>16</u>	_
	5825.000	105.92	32.23	6.04	36.90	107.29	125.20	-17.91	HORIZONTAL	Peak	
2	5850.000	63.87	32.25	6.00	36.90	65.22	122.20	-56.98	HORIZONTAL	Peak	
3	5860.000	62.73	32.27	5.96	36.90	64.06	109.40	-45.34	HORIZONTAL	Peak	
1	5941.546	63.37	32.36	6.05	36.90	64.88	68.20	-3.32	HORIZONTAL	Peak	



1

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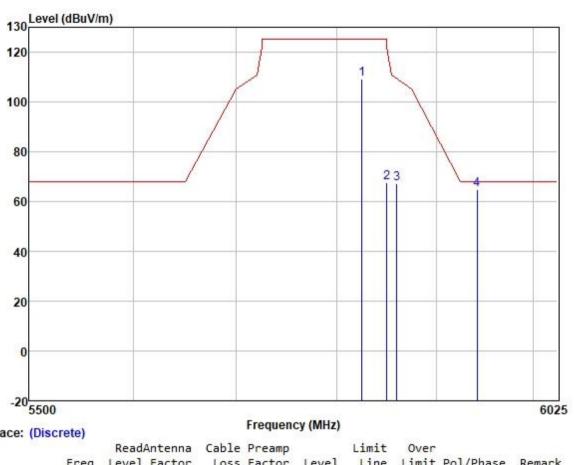
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Test Mode: 04; Polarity: Vertical; Modulation:802.11ax; Bandwidth:20MHz; Channel:High



race	: (Discrete)				2.50					
	Freq		Antenna Factor				Limit Line		Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5825.000	107.97	32.23	6.04	36.90	109.34	125.20	-15.86	VERTICAL	Peak
2	5850.000	66.35	32.25	6.00	36.90	67.70	122.20	-54.50	VERTICAL	Peak
3	5860.000	65.75	32.27	5.96	36.90	67.08	109.40	-42.32	VERTICAL	Peak

5942.017 63.25 32.36 6.05 36.90 64.76 68.20 -3.44 VERTICAL



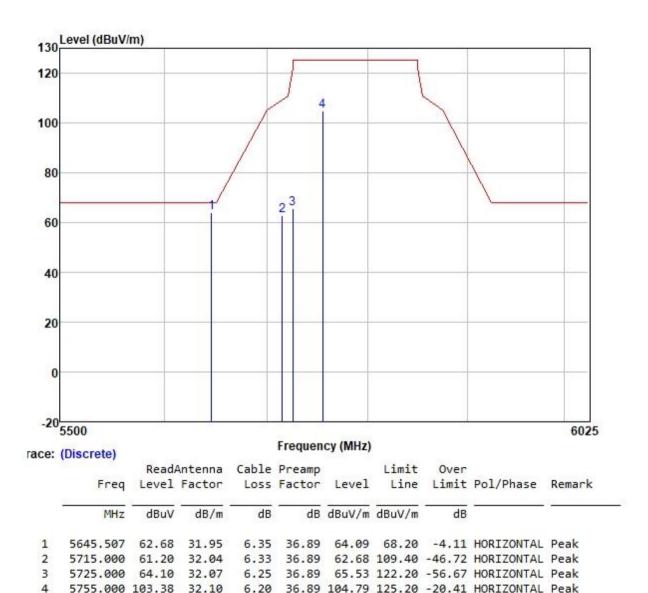
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:40MHz; Channel:Low





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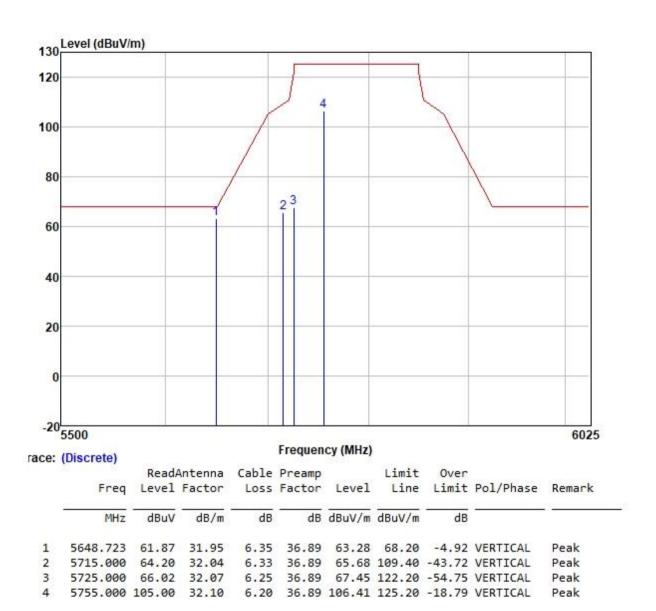
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Test Mode: 04; Polarity: Vertical; Modulation:802.11ax; Bandwidth:40MHz; Channel:Low





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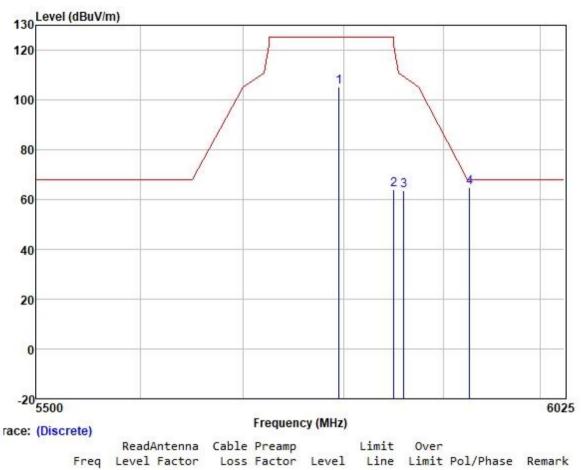
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:40MHz; Channel:High



		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		5 <u>14</u>
1	5795.000	103.73	32.19	6.10	36.89	105.13	125.20	-20.07	HORIZONTAL	Peak
2	5850.000	62.60	32.25	6.00	36.90	63.95	122.20	-58.25	HORIZONTAL	Peak
3	5860.000	62.45	32.27	5.96	36.90	63.78	109.40	-45.62	HORIZONTAL	Peak
4	5927.327	63.17	32.34	6.00	36.90	64.61	68.20	-3.59	HORIZONTAL	Peak



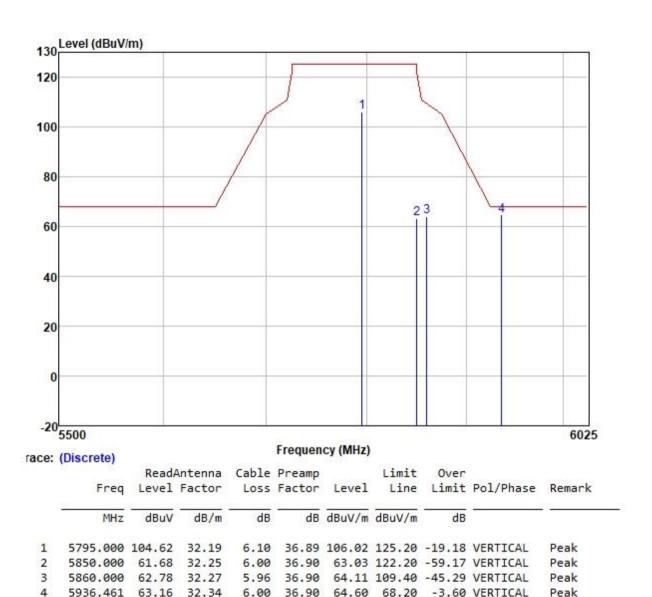
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Test Mode: 04; Polarity: Vertical; Modulation:802.11ax; Bandwidth:40MHz; Channel:High





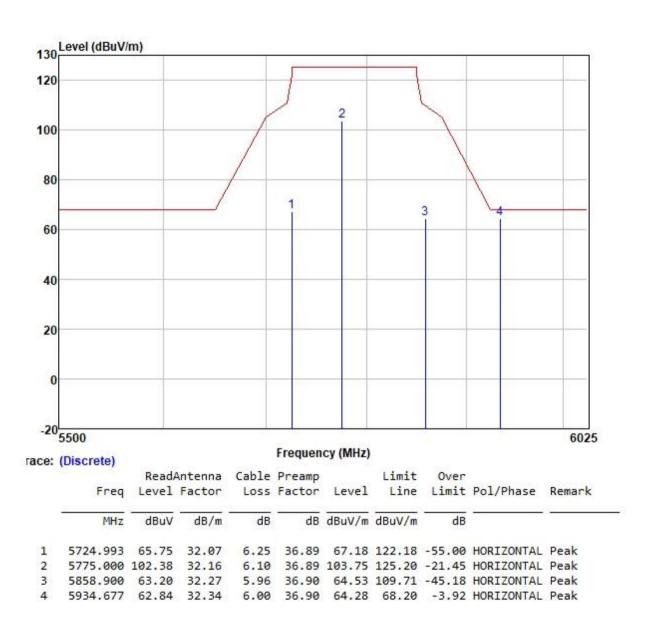
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:80MHz; Channel:middle





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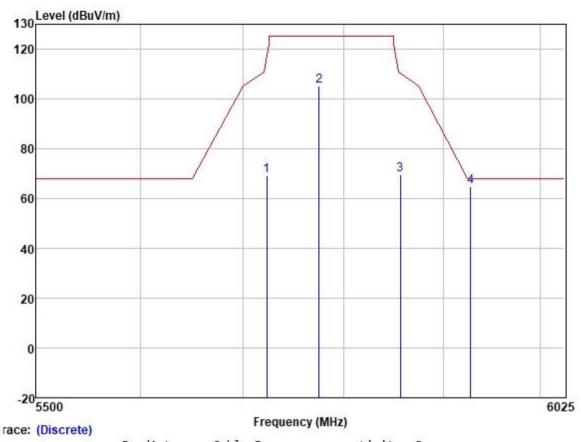
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Test Mode: 04; Polarity: Vertical; Modulation:802.11ax; Bandwidth:80MHz; Channel:middle



	Seeming		Antenna							200000000000000000000000000000000000000	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		3	
1	5723.184	67.61	32.07	6.25	36.89	69.04	118.06	-49.02	VERTICAL	Peak	
2	5775.000	103.87	32.16	6.10	36.89	105.24	125.20	-19.96	VERTICAL	Peak	
3	5856.432	68.41	32.27	5.96	36.90	69.74	110.40	-40.66	VERTICAL	Peak	
4	5928.117	63.38	32.34	6.00	36.90	64.82	68.20	-3.38	VERTICAL	Peak	



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7.10 Frequency Stability

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

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 21.3 °C Humidity: 50.9 % RH Atmospheric Pressure: 1015 mbar

7.10.2 Test Mode Description

Pre-scan / Mode Final test Code

Description

Final test 01

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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.

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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.

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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.

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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of

Final test 02

Final test 03

Final test 04

检验检测专用章

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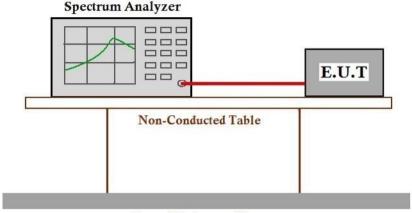


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IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.

7.10.3 Test Setup Diagram



Ground Reference Plane

7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.11 Radiated Emissions (above 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.407(b)

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 quasi-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.

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 52.7 % RH Atmospheric Pressure: 1015 mbar



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7.11.2 Test Mode Description

Pre-scan / Mode Final test Code

Description

Final test 01

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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report.

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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.

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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.

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(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of 802.11ax(HE20); data rate @ MCS0 is the worst case of 802.11ax(HE40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE80). Only the data of worst case is recorded in the report.

Final test 02

Final test 03

Final test 04



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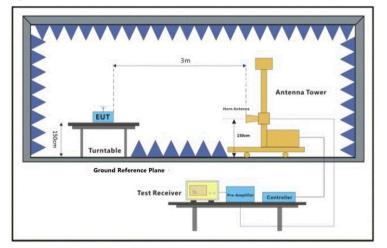
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7.11.3 Test Setup Diagram





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7.11.4 Measurement Procedure and Data

- a. 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.
- b. 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.
- c. 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.
- d. 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. 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.
- i. Repeat above procedures until all frequencies measured was complete. Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 1GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 4. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, 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. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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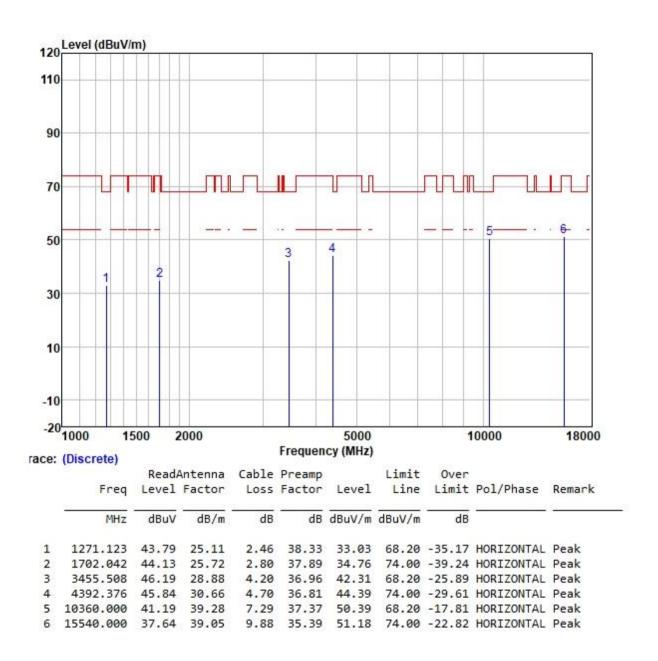
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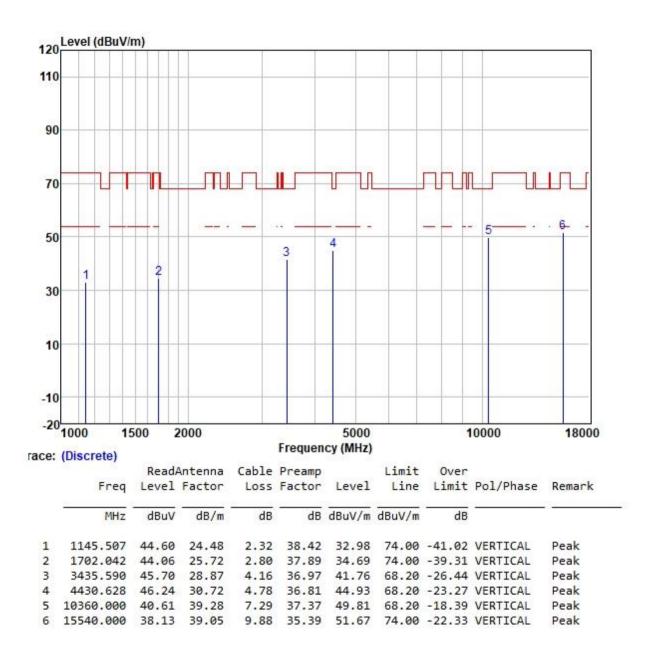




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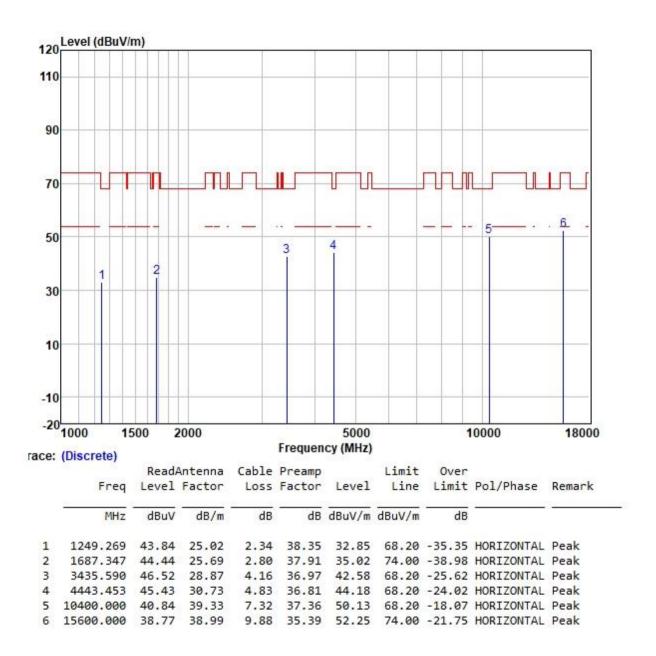
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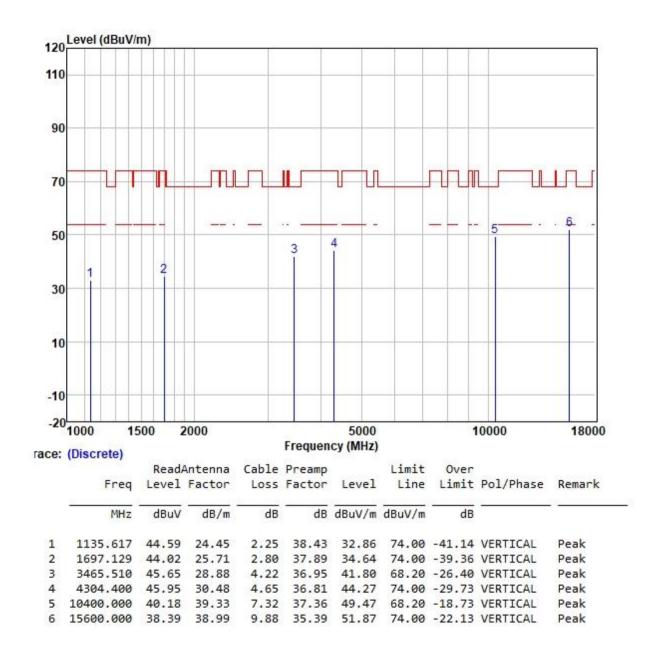
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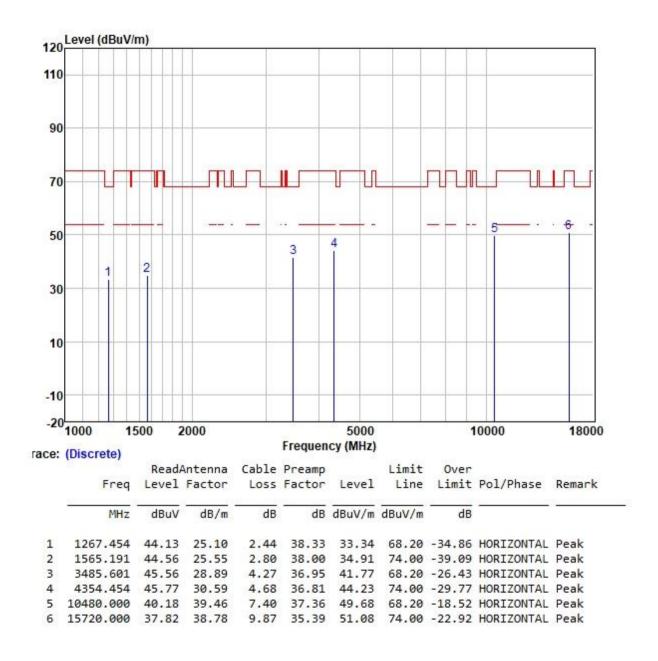
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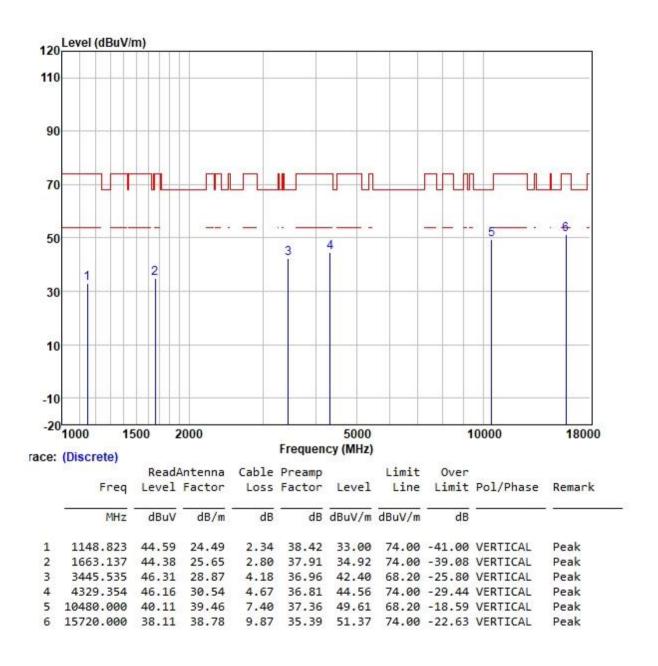
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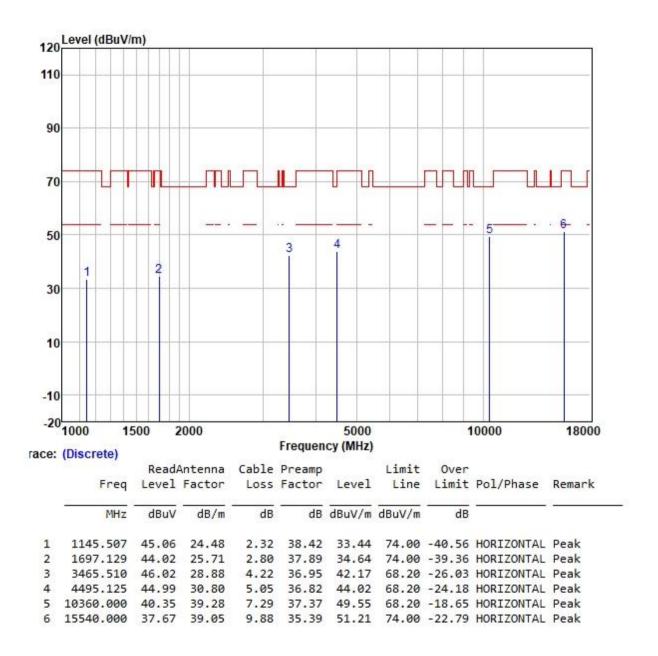
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



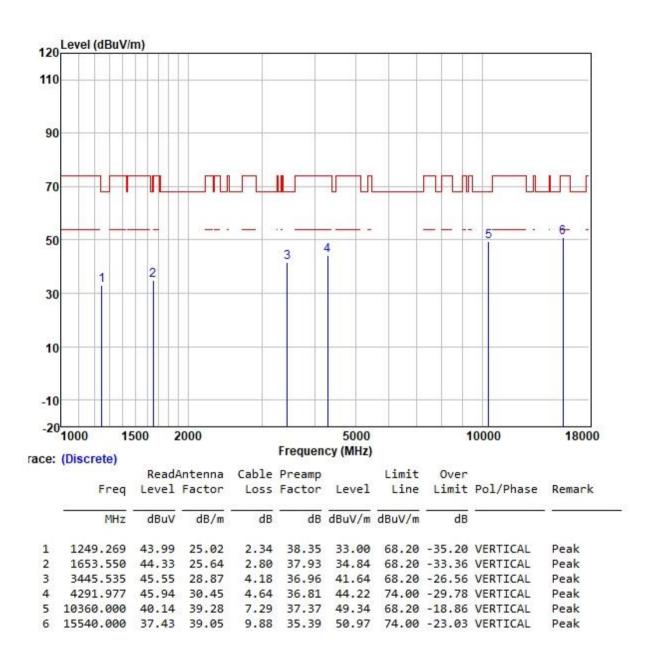




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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low





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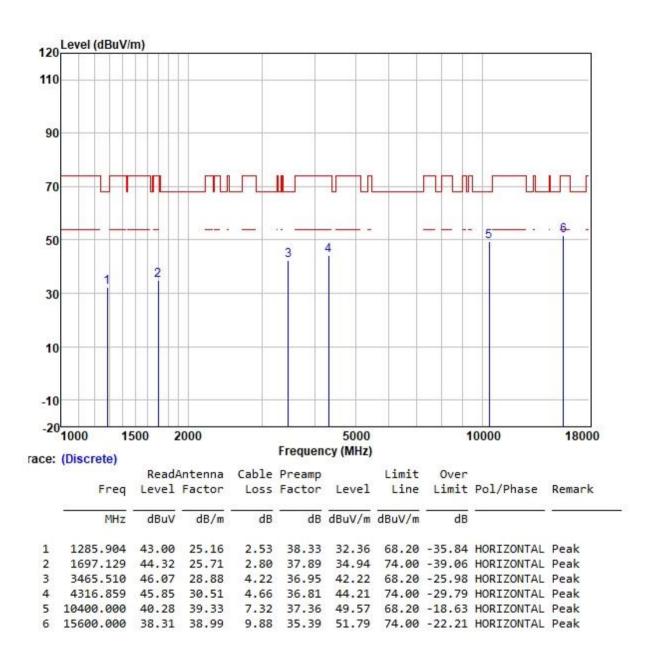
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle





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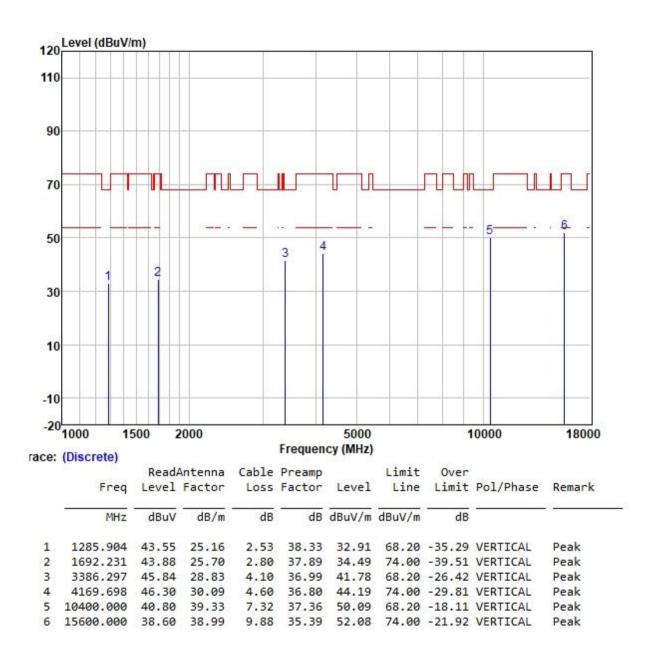
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



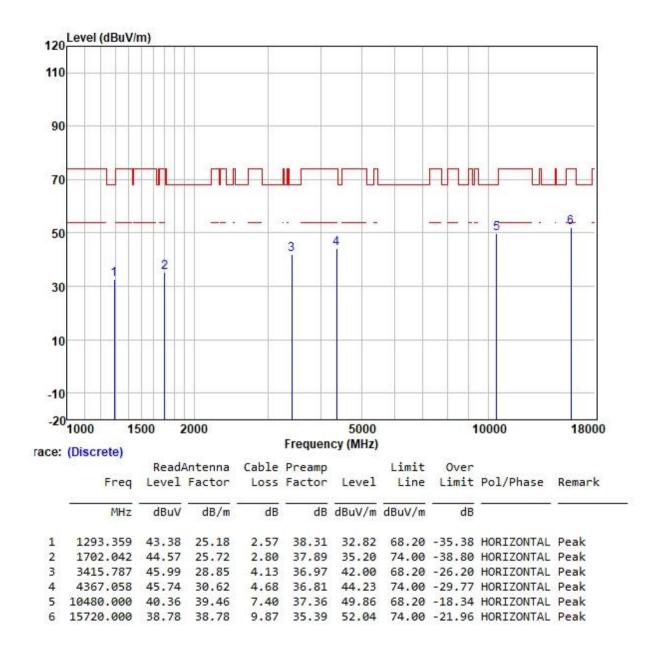




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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High





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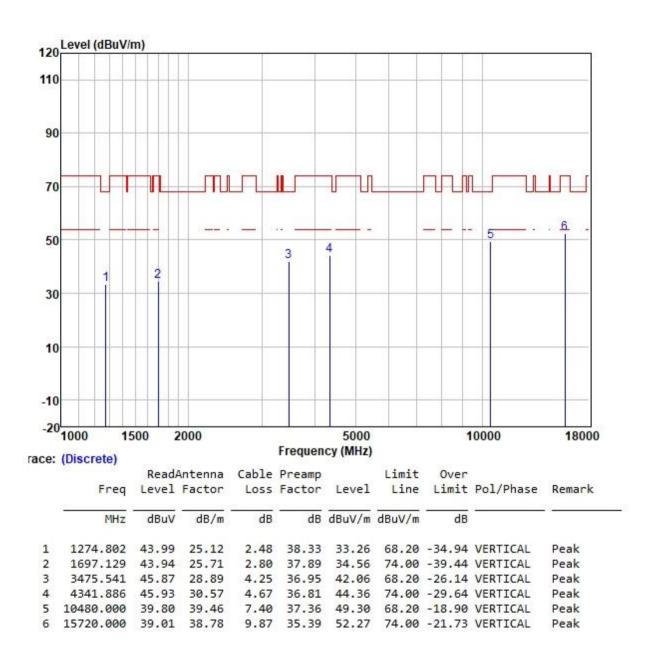
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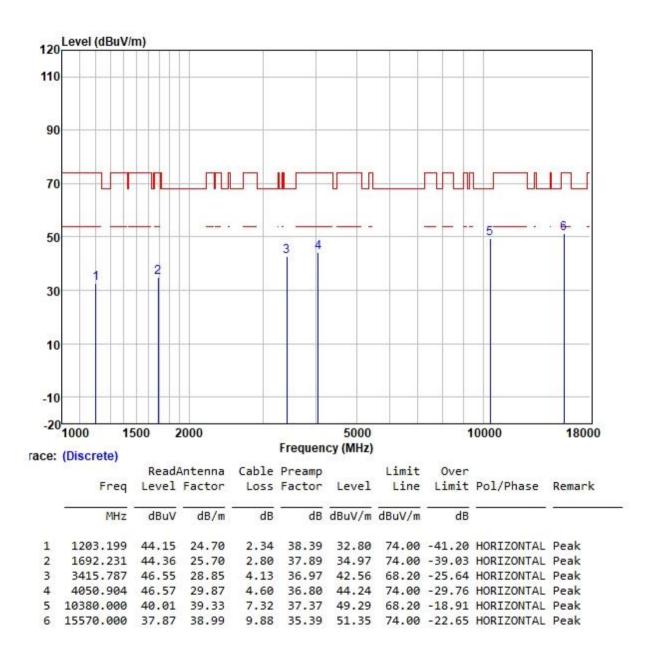
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low





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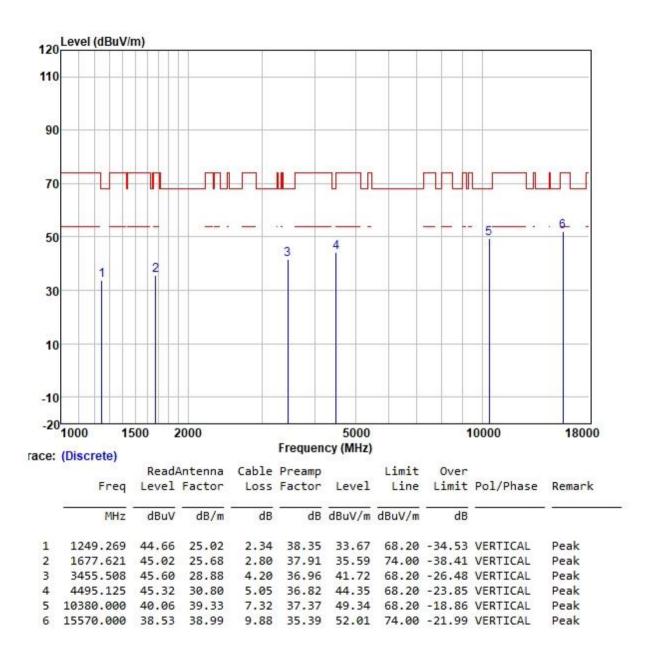
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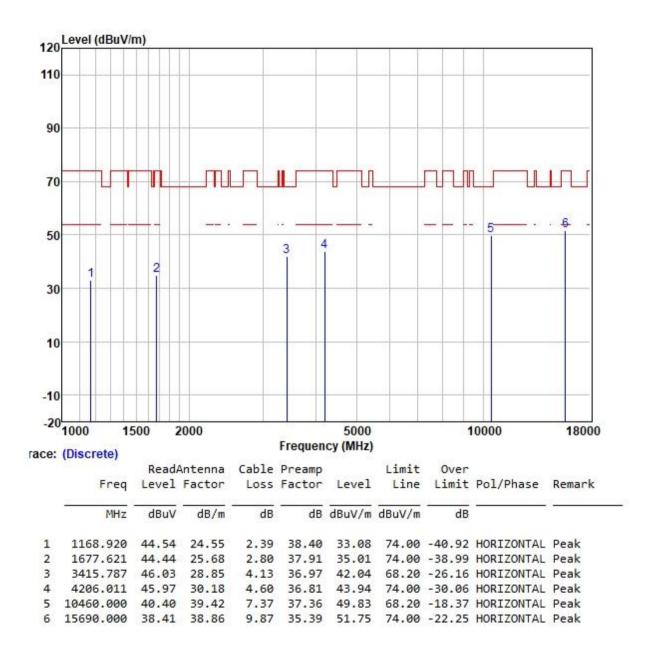
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High





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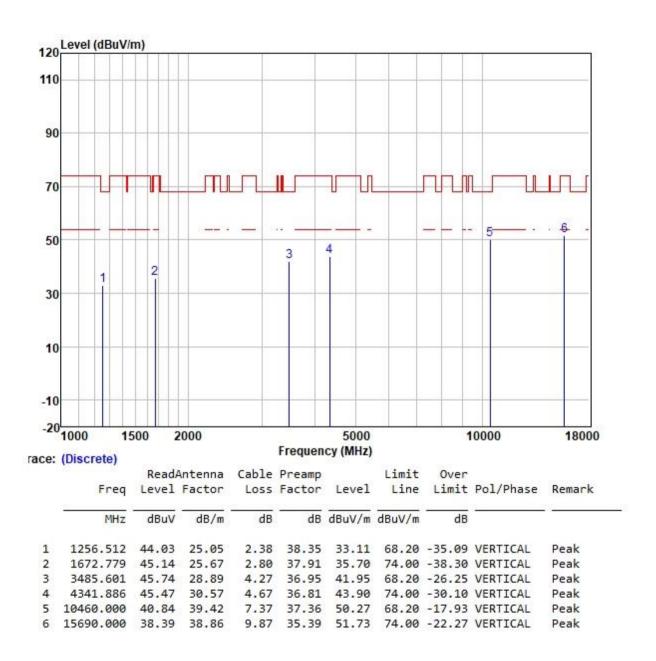
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



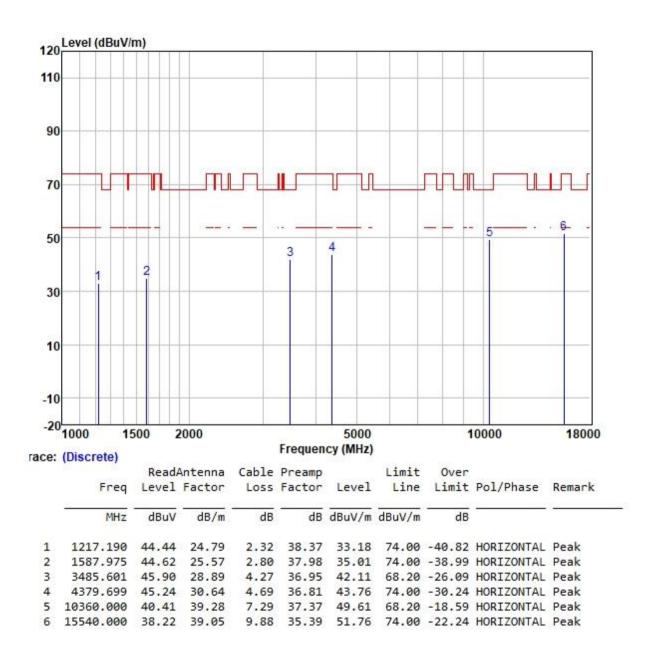




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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



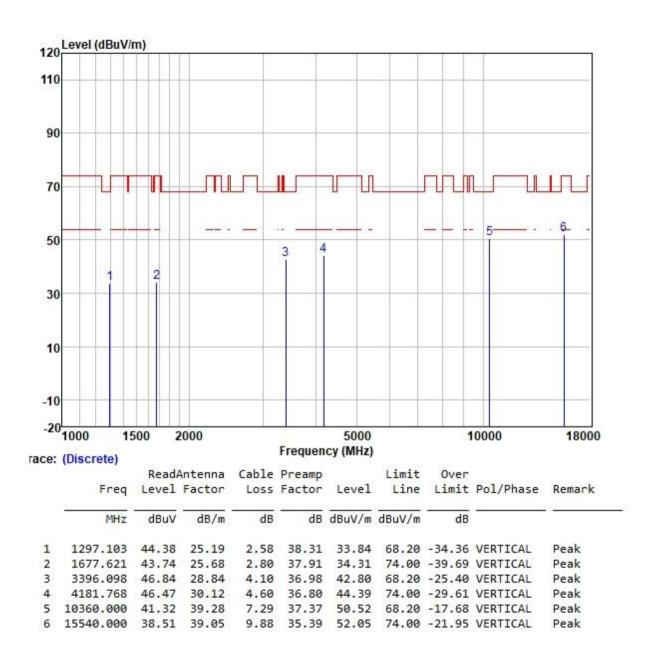




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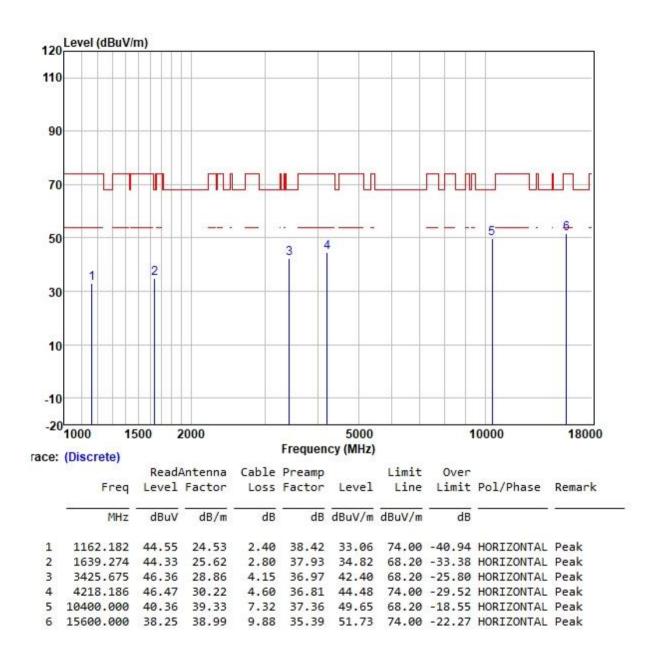
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



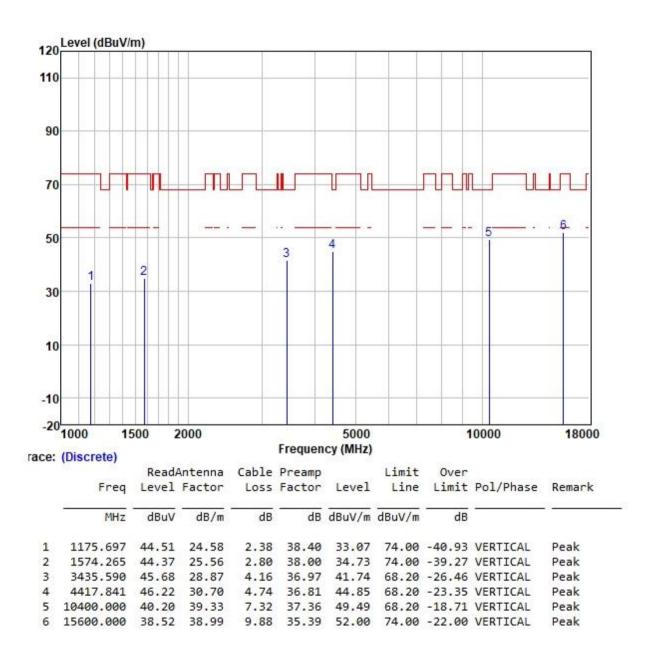




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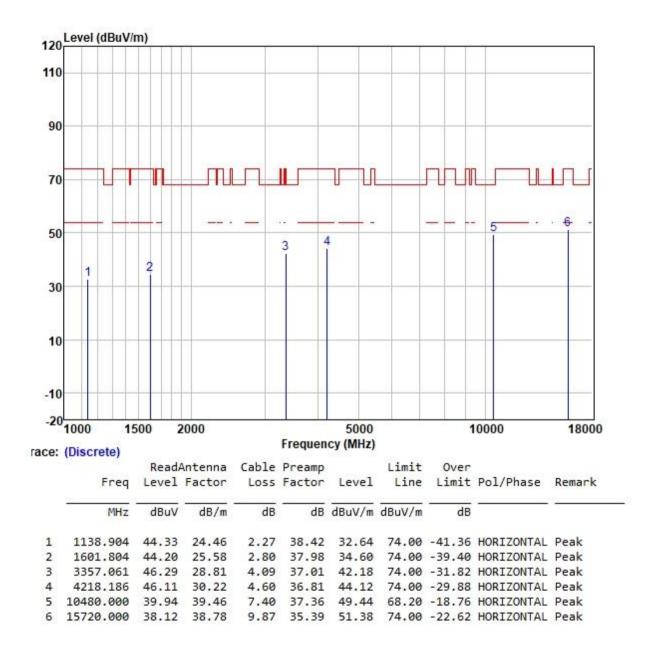
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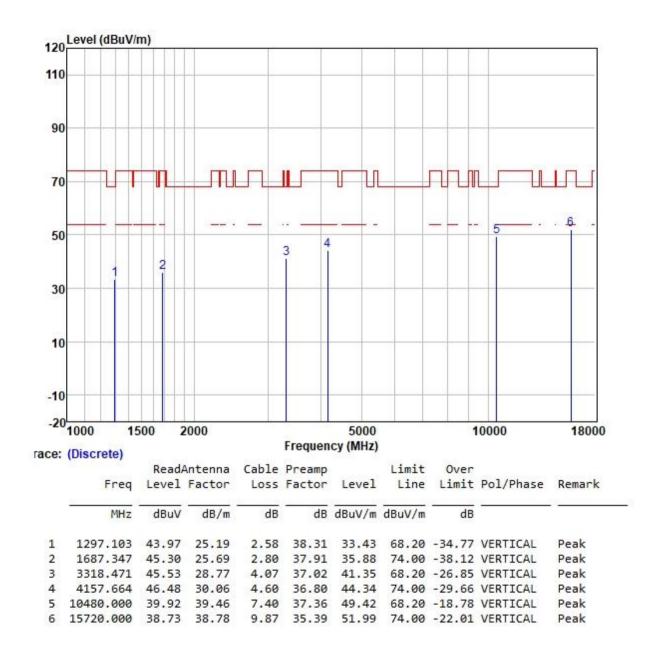
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



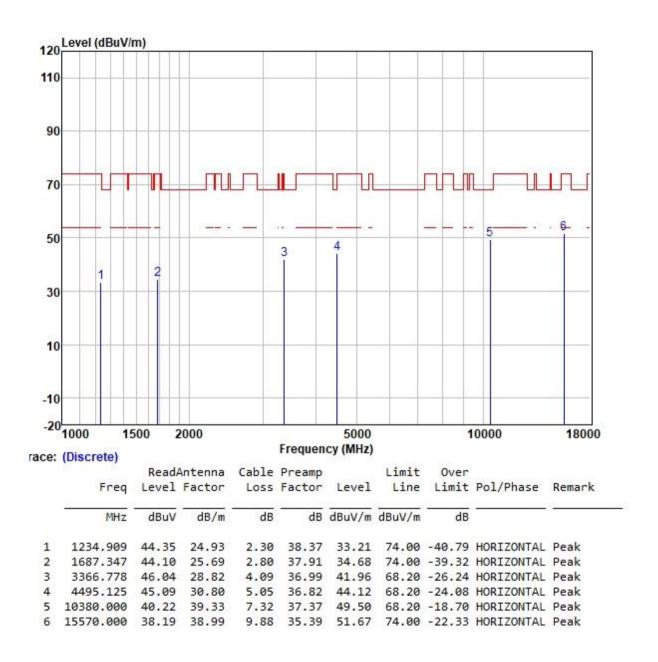




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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



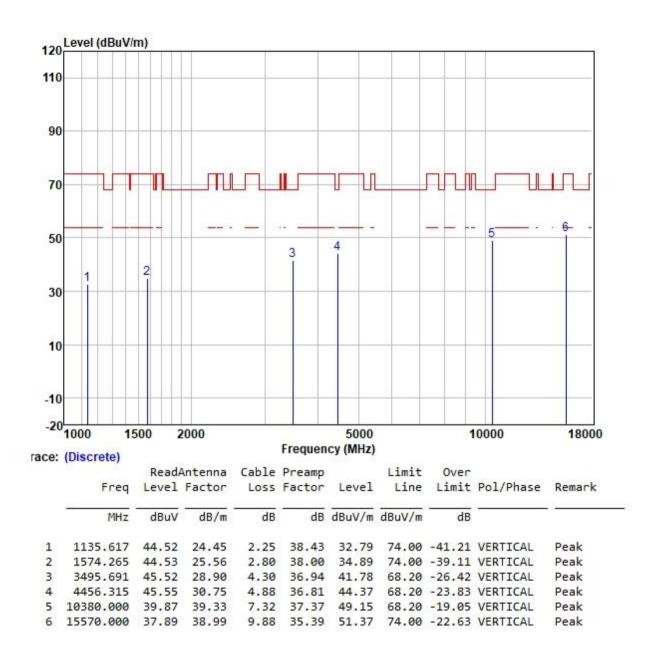




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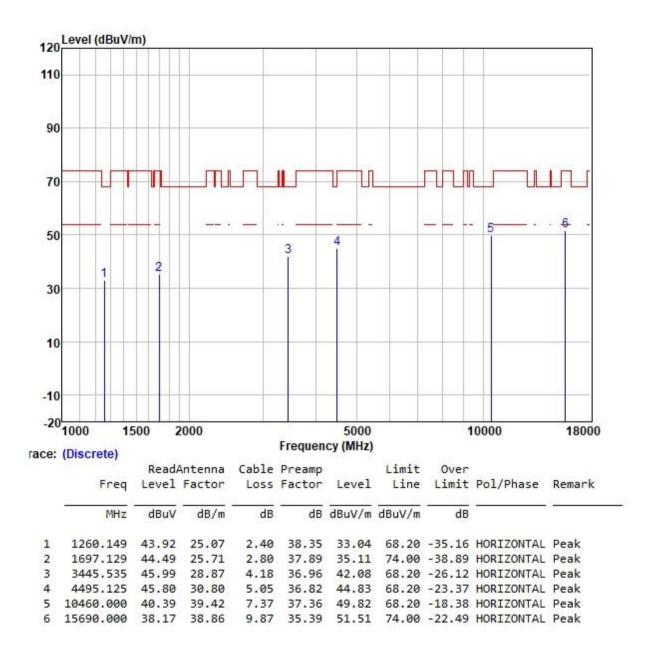
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



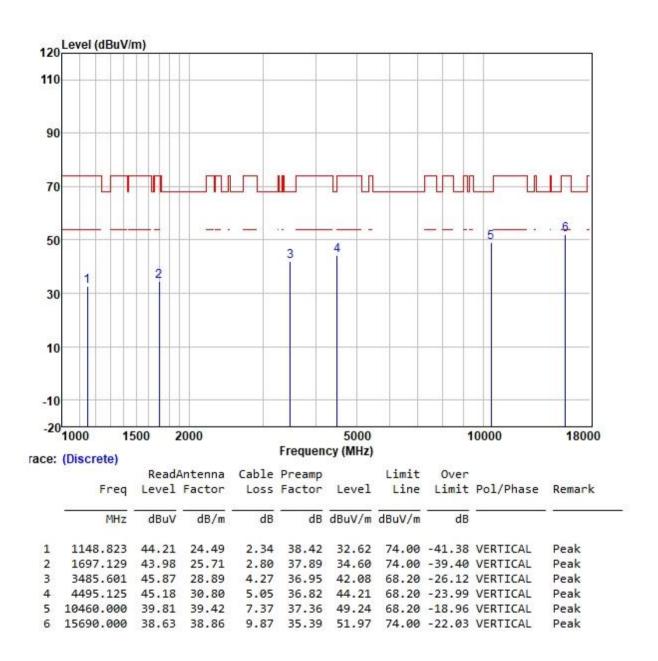




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