

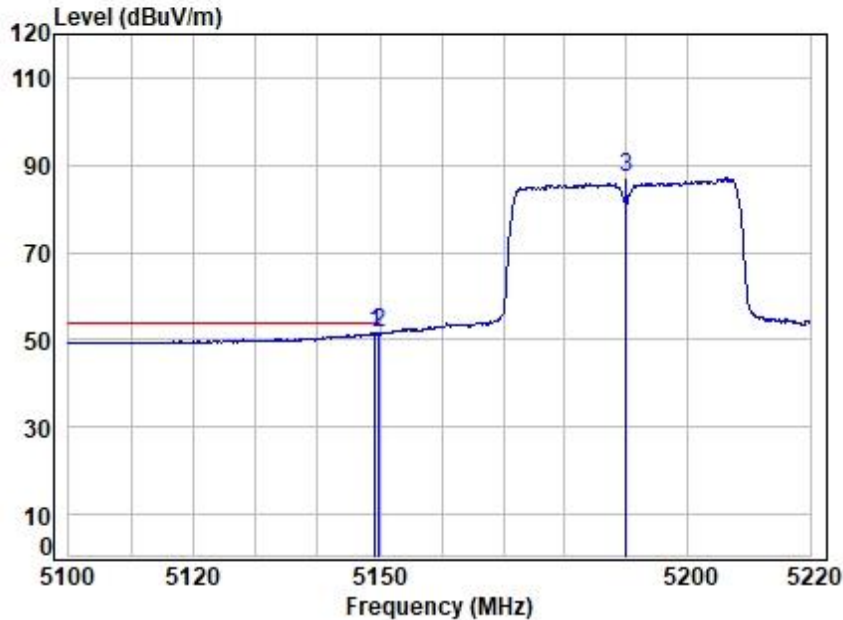
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 110 of 354

Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5190 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5149.342	8.29	31.77	31.82	43.15	51.39	54.00	-2.61 Average
2	5149.980	8.29	31.77	31.82	43.36	51.60	54.00	-2.40 Average
3	5190.000	8.29	31.87	31.87	78.89	87.18	-----	----- Average



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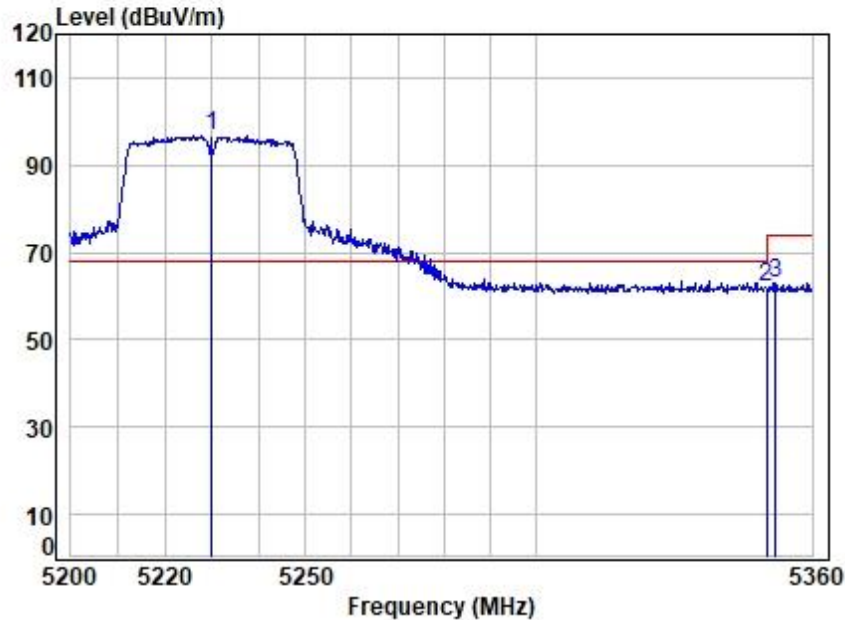
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 111 of 354

Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5230 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dB	
1 . 5230.000		8.29	31.97	31.93	88.48	96.81	68.20	28.61 peak
2 5350.020		8.28	32.25	32.10	53.58	62.01	74.00	-11.99 peak
3 5352.046		8.28	32.26	32.10	54.55	62.99	74.00	-11.01 peak



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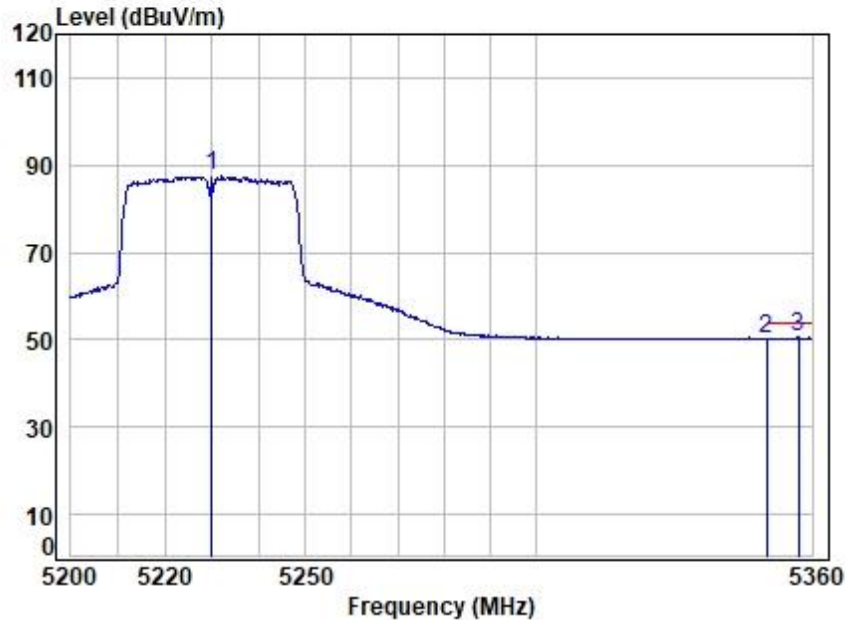
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 112 of 354

Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5230 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5230.000	8.29	31.97	31.93	79.07	87.40	-----	-----
2	5350.020	8.28	32.25	32.10	41.86	50.29	54.00	-3.71
3	5357.077	8.28	32.27	32.11	42.15	50.59	54.00	-3.41



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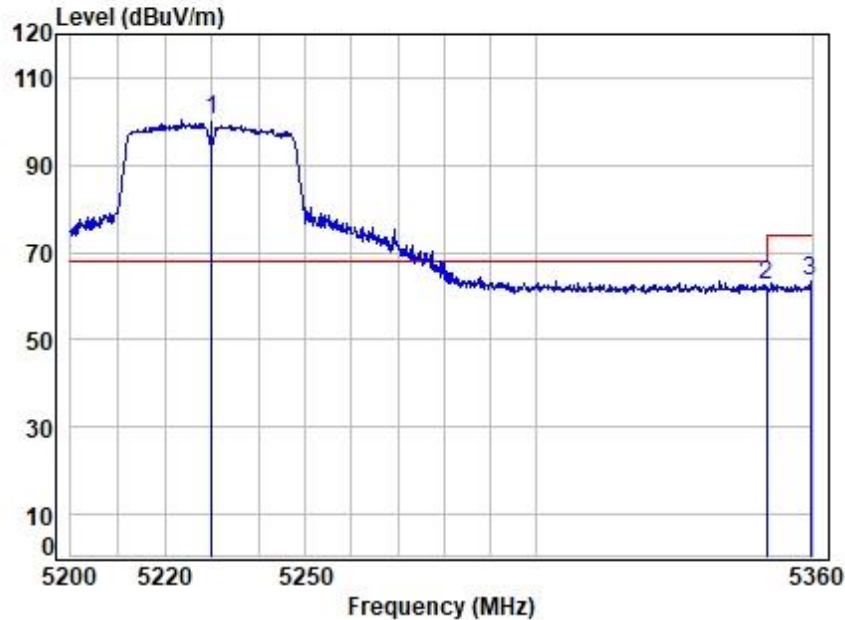
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 113 of 354

Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5230 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5230.000	8.29	31.97	31.93	91.88	100.21	68.20	32.01	Peak
2	5350.020	8.28	32.25	32.10	53.93	62.36	74.00	-11.64	Peak
3	5359.675	8.28	32.27	32.11	54.80	63.24	74.00	-10.76	Peak



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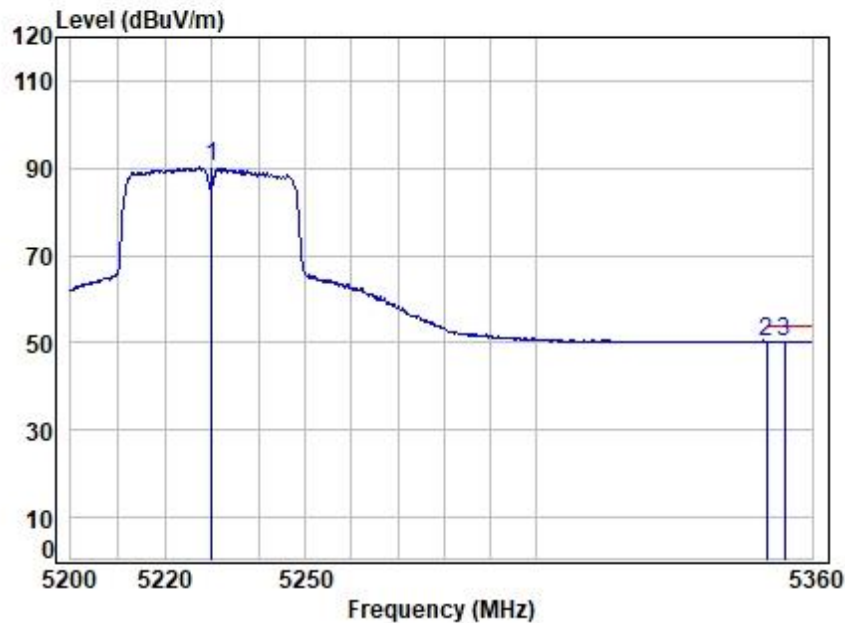
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 114 of 354

Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5230 Band edge
: 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5230.000	8.29	31.97	31.93	81.83	90.16	-----	-----	Average
2	5350.020	8.28	32.25	32.10	41.95	50.38	54.00	-3.62	Average
3	5353.993	8.28	32.26	32.10	41.97	50.41	54.00	-3.59	Average



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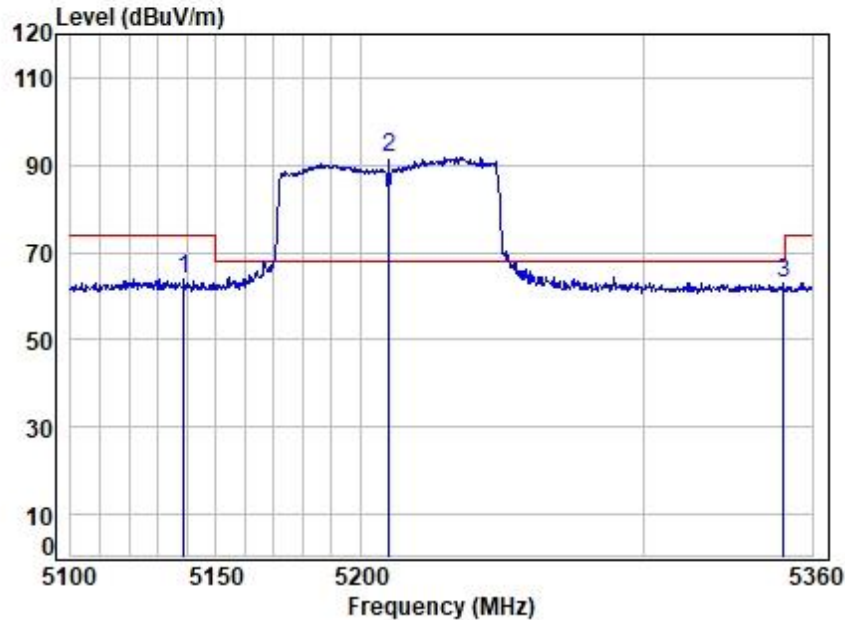
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 115 of 354

Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel: middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5210 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5138.691	8.29	31.74	31.80	55.86	64.09	74.00	-9.91 peak
2	5210.000	8.29	31.92	31.90	83.62	91.93	68.20	23.73 peak
3	5349.882	8.28	32.25	32.10	54.44	62.87	68.20	-5.33 peak



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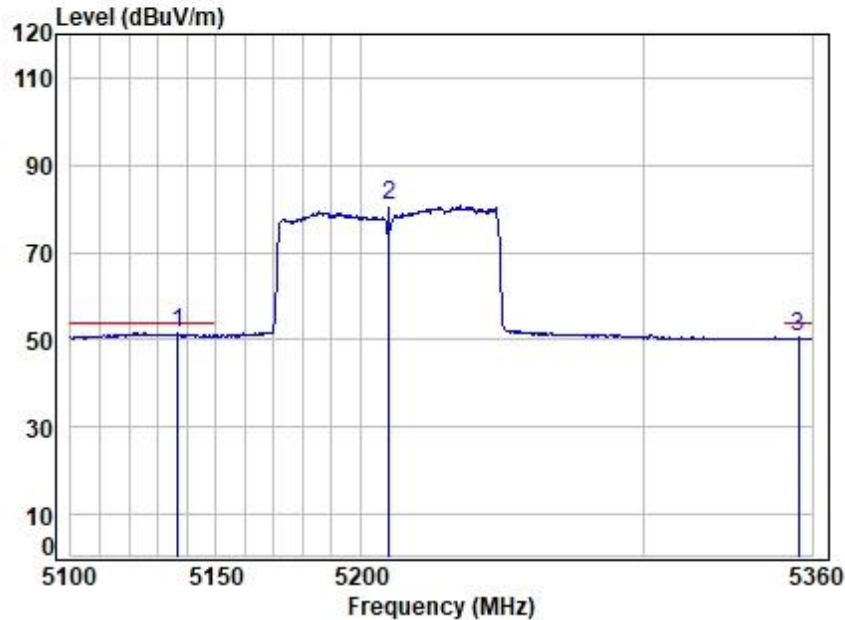
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 116 of 354

Test Mode: 14; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel: middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5210 Band edge
: 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5136.903	8.29	31.74	31.80	43.16	51.39	54.00	-2.61	Average
2	5210.000	8.29	31.92	31.90	72.42	80.73	-----	-----	Average
3	5355.205	8.28	32.26	32.10	42.03	50.47	54.00	-3.53	Average



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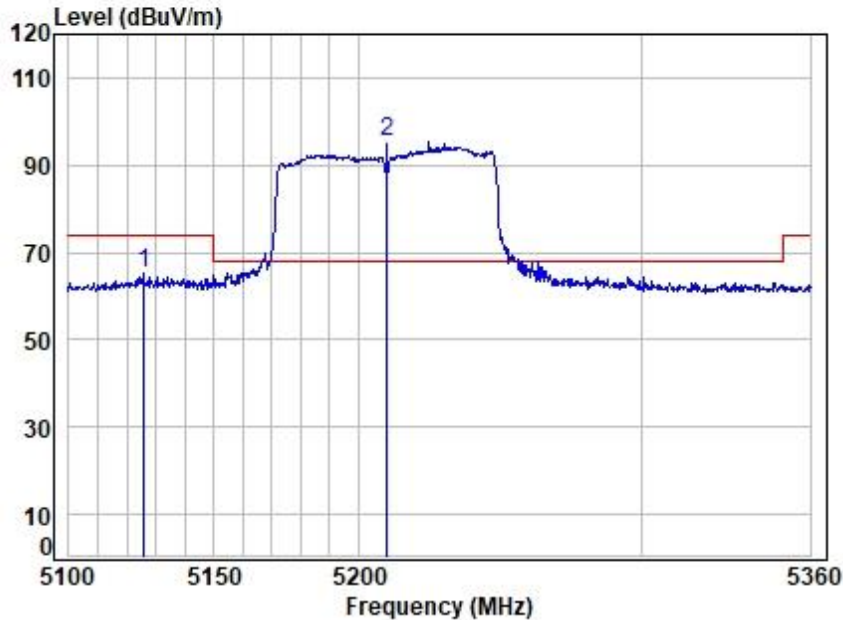
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 117 of 354

Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel: middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5210 Band edge
: 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5125.677	8.29	31.71	31.78	56.88	65.10	74.00	-8.90	Peak
2	5210.000	8.29	31.92	31.90	86.84	95.15	68.20	26.95	Peak
3	5360.000	8.28	32.28	32.11	54.11	62.56	74.00	-11.44	Peak



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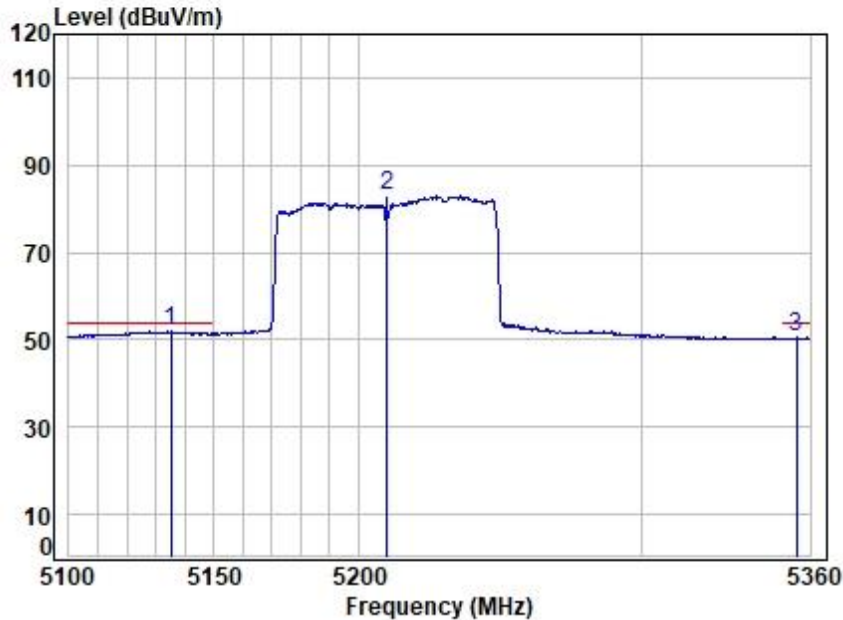
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 118 of 354

Test Mode: 14; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel: middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5210 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5135.116	8.29	31.74	31.80	43.65	51.88	54.00	-2.12 Average
2	5210.000	8.29	31.92	31.90	74.61	82.92	-----	----- Average
3	5355.205	8.28	32.26	32.10	42.00	50.44	54.00	-3.56 Average



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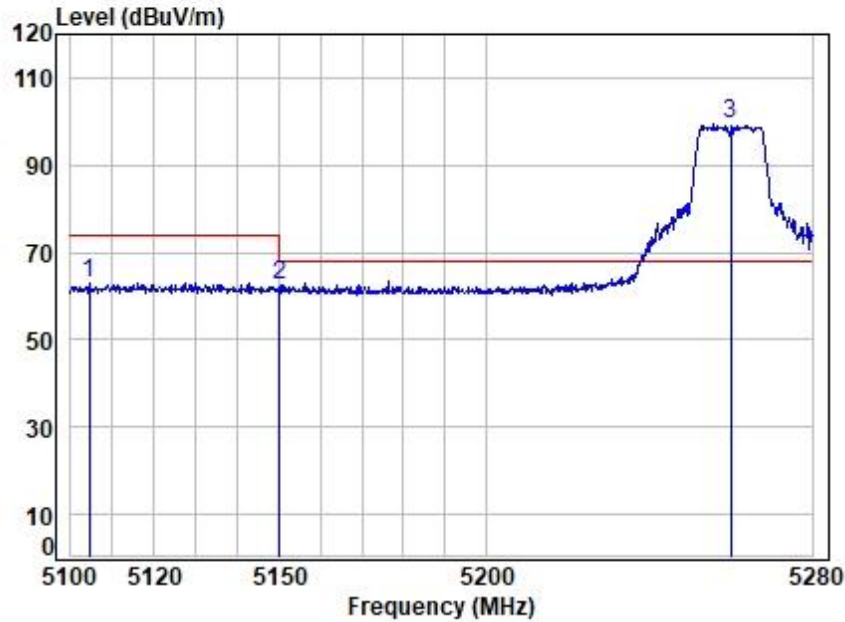
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 119 of 354

Test Mode: 15; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5260 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5104.424	8.29	31.66	31.75	54.81	63.01	74.00	-10.99 peak
2	5149.980	8.29	31.77	31.82	54.20	62.44	74.00	-11.56 peak
3	5260.000	8.28	32.04	31.97	91.23	99.58	68.20	31.38 peak



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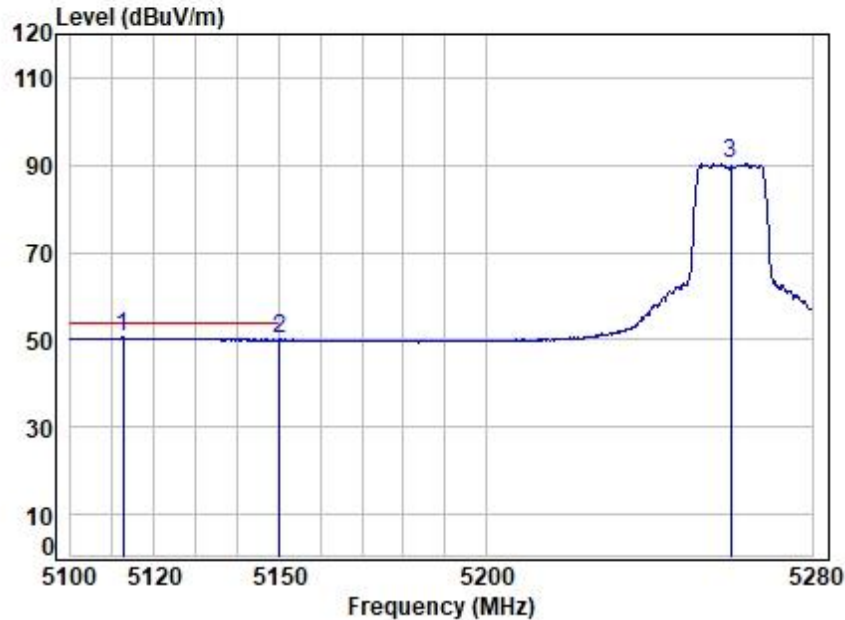
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 120 of 354

Test Mode: 15; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5260 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5112.575	8.29	31.68	31.76	42.22	50.43	54.00	-3.57	Average
2	5149.980	8.29	31.77	31.82	41.86	50.10	54.00	-3.90	Average
3	5260.000	8.28	32.04	31.97	82.06	90.41	-----	-----	Average



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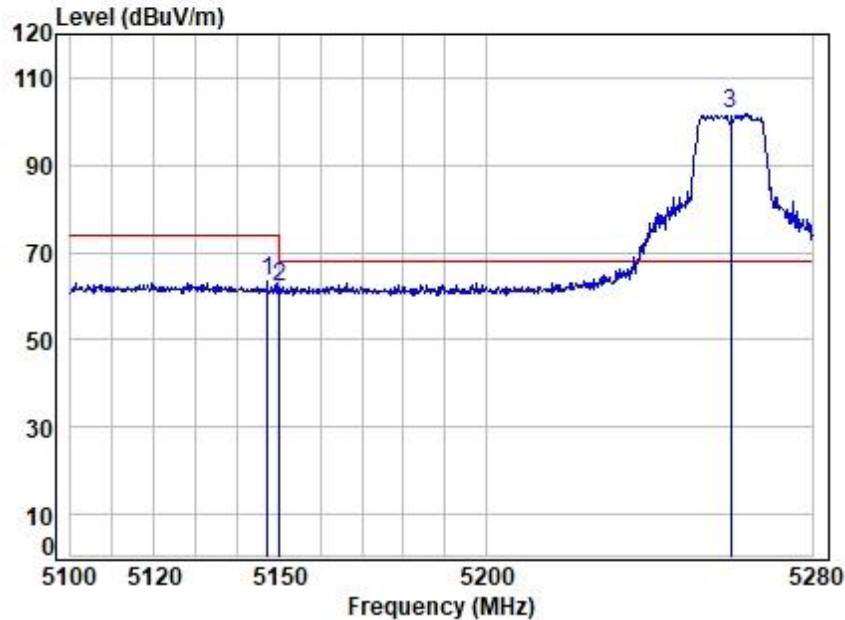
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 121 of 354

Test Mode: 15; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5260 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5147.094	8.29	31.77	31.81	55.06	63.31	74.00	-10.69 Peak
2	5149.980	8.29	31.77	31.82	53.84	62.08	74.00	-11.92 Peak
3	5260.000	8.28	32.04	31.97	93.41	101.76	68.20	33.56 Peak



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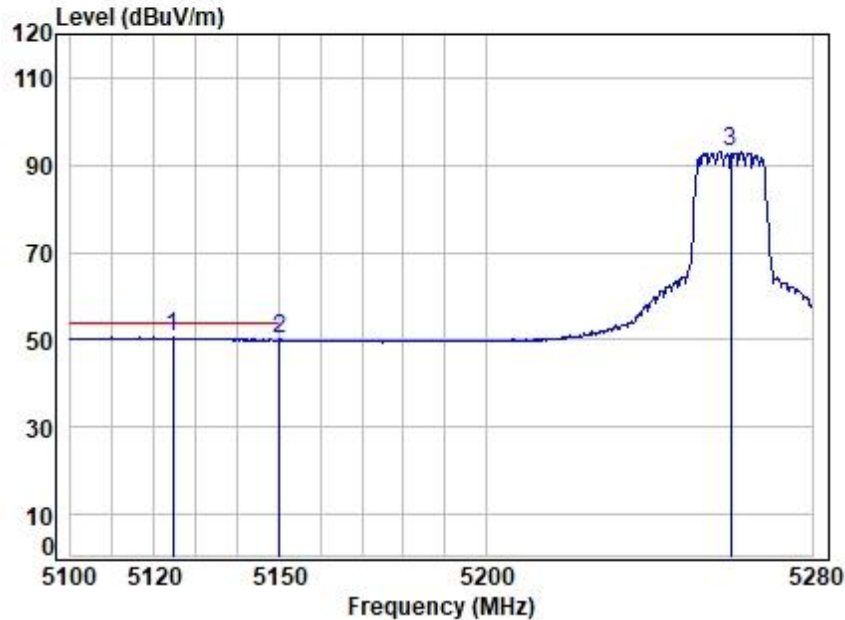
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 122 of 354

Test Mode: 15; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00472AT
 Mode : 5260 Band edge
 : 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5124.470	8.29	31.71	31.78	42.24	50.46	54.00	-3.54 Average
2	5149.980	8.29	31.77	31.82	41.74	49.98	54.00	-4.02 Average
3	5260.000	8.28	32.04	31.97	84.56	92.91	-----	----- Average



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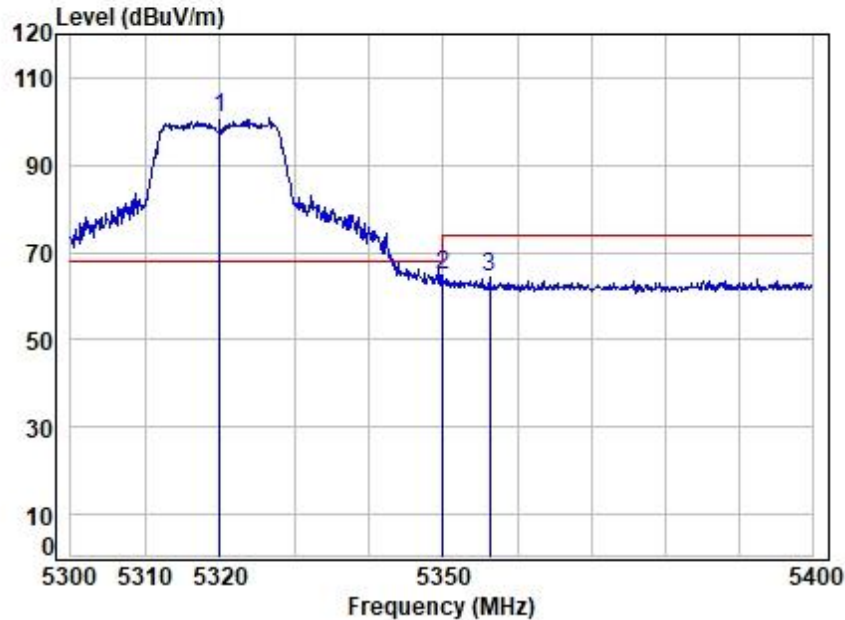
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 123 of 354

Test Mode: 15; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5320 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 . 5320.000		8.28	32.18	32.06	92.44	100.84	68.20	32.64 peak
2 5350.020		8.28	32.25	32.10	56.52	64.95	74.00	-9.05 peak
3 5356.270		8.28	32.27	32.11	55.67	64.11	74.00	-9.89 peak



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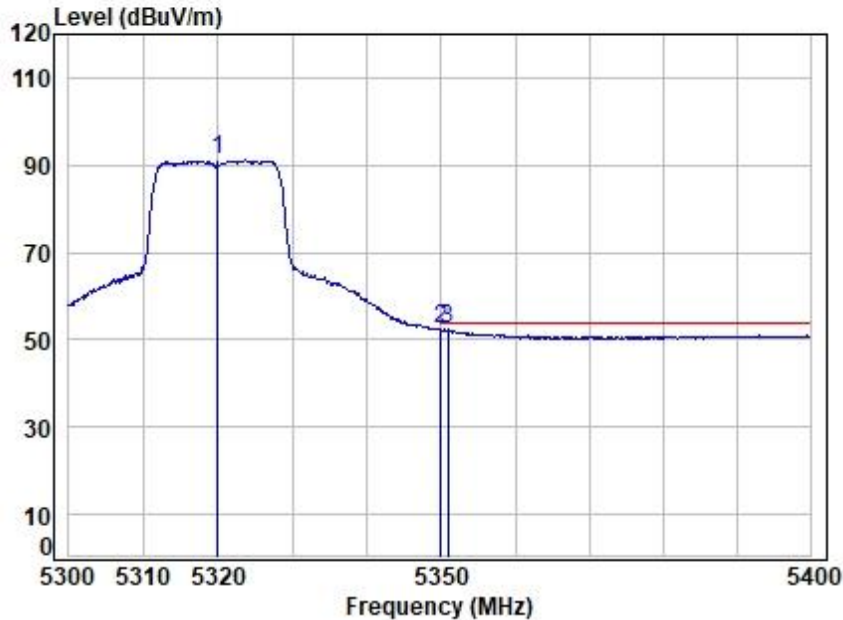
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 124 of 354

Test Mode: 15; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5320 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5320.000	8.28	32.18	32.06	82.90	91.30	-----	Average
2	5350.020	8.28	32.25	32.10	43.82	52.25	54.00	-1.75 Average
3	5350.966	8.28	32.25	32.10	43.84	52.27	54.00	-1.73 Average



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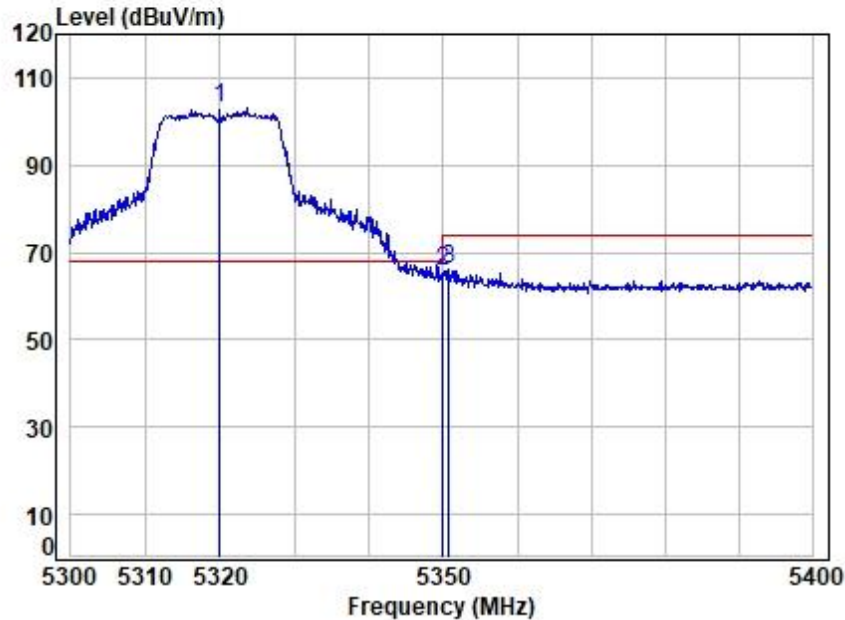
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 125 of 354

Test Mode: 15; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5320 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 . 5320.000		8.28	32.18	32.06	94.49	102.89	68.20	34.69 Peak
2 5350.020		8.28	32.25	32.10	57.34	65.77	74.00	-8.23 Peak
3 5350.767		8.28	32.25	32.10	57.84	66.27	74.00	-7.73 Peak



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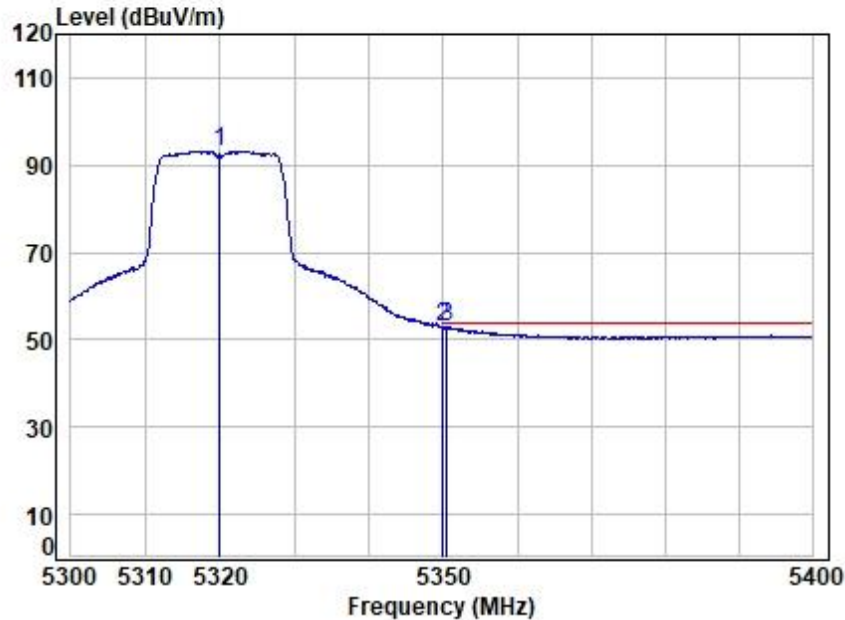
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 126 of 354

Test Mode: 15; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5320 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5320.000	8.28	32.18	32.06	84.77	93.17	-----	Average
2	5350.020	8.28	32.25	32.10	44.47	52.90	54.00	-1.10 Average
3	5350.566	8.28	32.25	32.10	44.35	52.78	54.00	-1.22 Average



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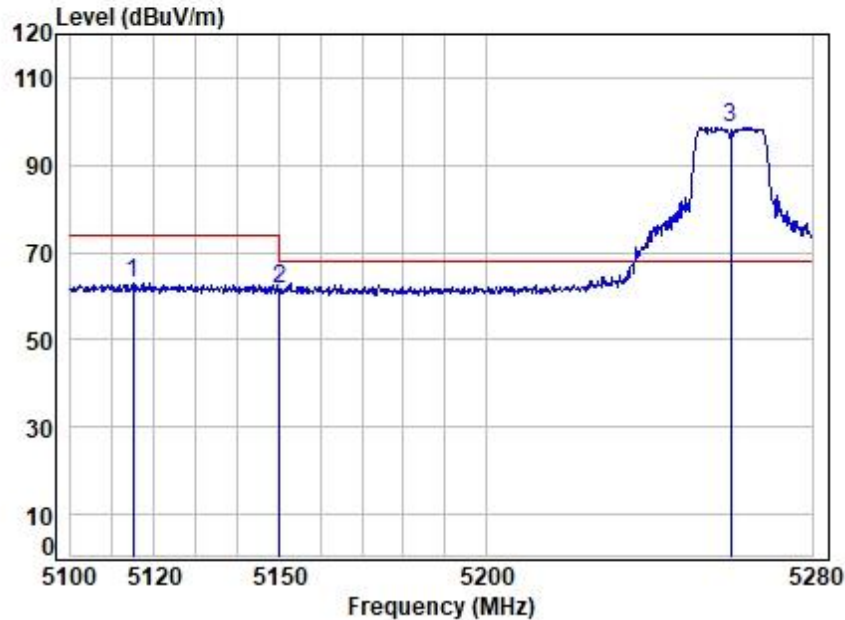
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Report No.: FYCR221100047205

Page: 127 of 354

Test Mode: 15; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5260 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5114.881	8.29	31.69	31.77	54.94	63.15	74.00	-10.85 peak
2	5149.980	8.29	31.77	31.82	53.46	61.70	74.00	-12.30 peak
3	5260.000	8.28	32.04	31.97	90.32	98.67	68.20	30.47 peak



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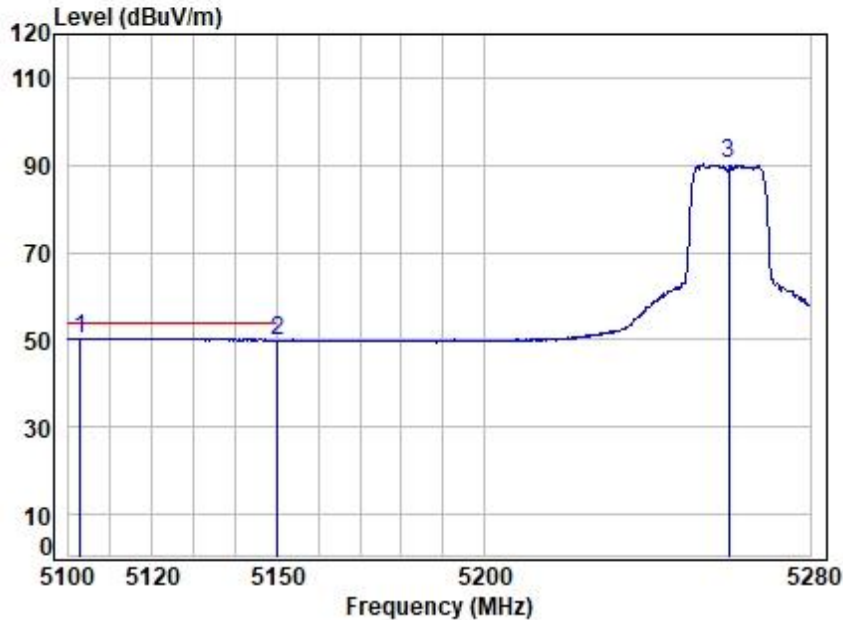
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 128 of 354

Test Mode: 15; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5260 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5102.654	8.29	31.66	31.75	42.21	50.41	54.00	-3.59	Average
2	5149.980	8.29	31.77	31.82	41.63	49.87	54.00	-4.13	Average
3	5260.000	8.28	32.04	31.97	81.82	90.17	-----	-----	Average



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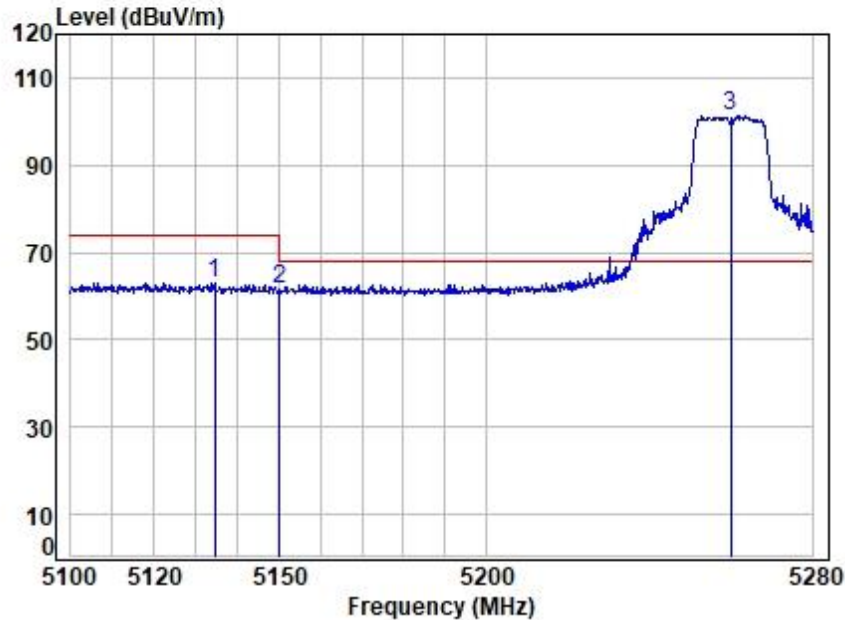
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 129 of 354

Test Mode: 15; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5260 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5134.434	8.29	31.73	31.79	54.95	63.18	74.00	-10.82	Peak
2	5149.980	8.29	31.77	31.82	53.35	61.59	74.00	-12.41	Peak
3	5260.000	8.28	32.04	31.97	93.09	101.44	68.20	33.24	Peak



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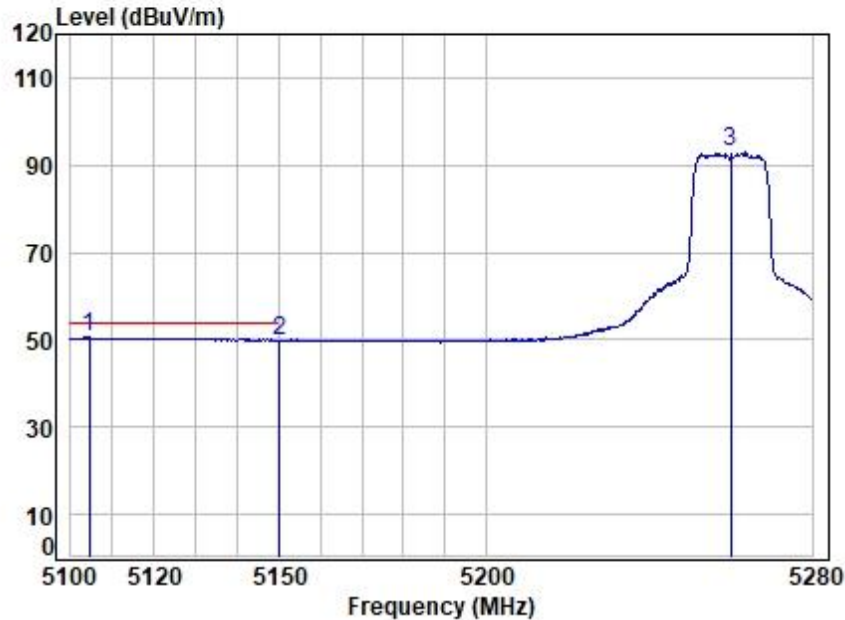
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 130 of 354

Test Mode: 15; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5260 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5104.424	8.29	31.66	31.75	42.36	50.56	54.00	-3.44 Average
2	5149.980	8.29	31.77	31.82	41.67	49.91	54.00	-4.09 Average
3	5260.000	8.28	32.04	31.97	84.57	92.92	-----	----- Average



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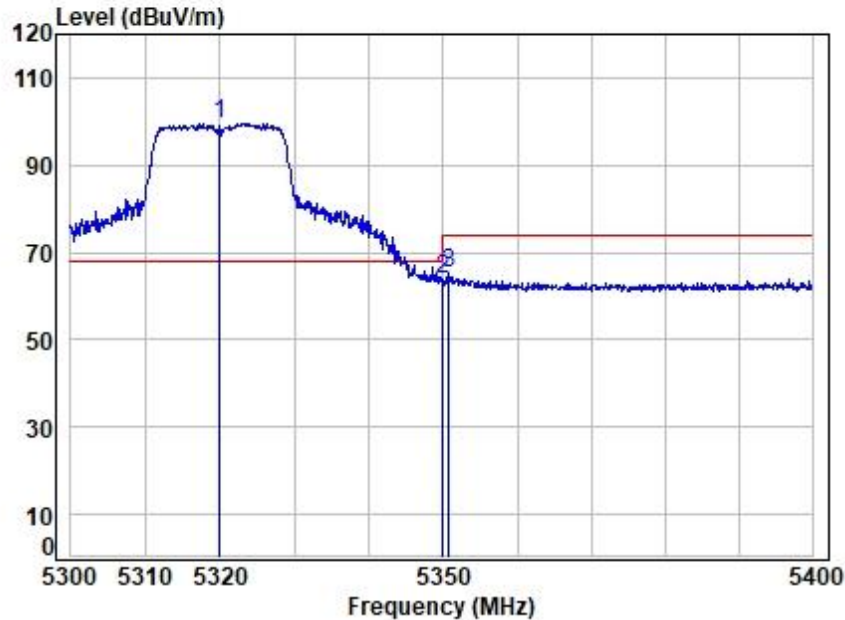
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 131 of 354

Test Mode: 15; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5320 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 . 5320.000		8.28	32.18	32.06	91.24	99.64	68.20	31.44 peak
2 5350.020		8.28	32.25	32.10	55.45	63.88	74.00	-10.12 peak
3 5350.767		8.28	32.25	32.10	56.67	65.10	74.00	-8.90 peak



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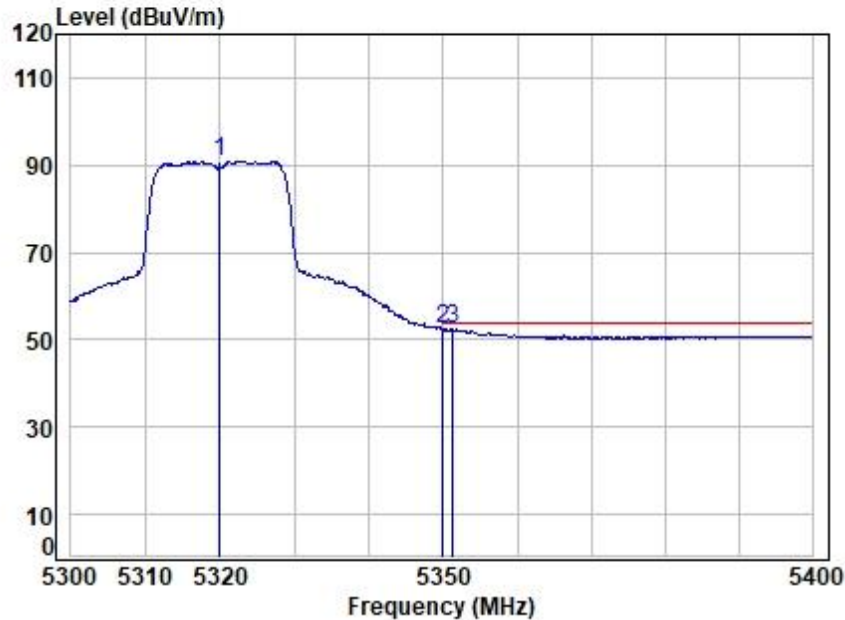
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 132 of 354

Test Mode: 15; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5320 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	8.28	32.18	32.06	82.47	90.87	-----	-----	Average
2	5350.020	8.28	32.25	32.10	44.10	52.53	54.00	-1.47	Average
3	5351.267	8.28	32.25	32.10	43.98	52.41	54.00	-1.59	Average



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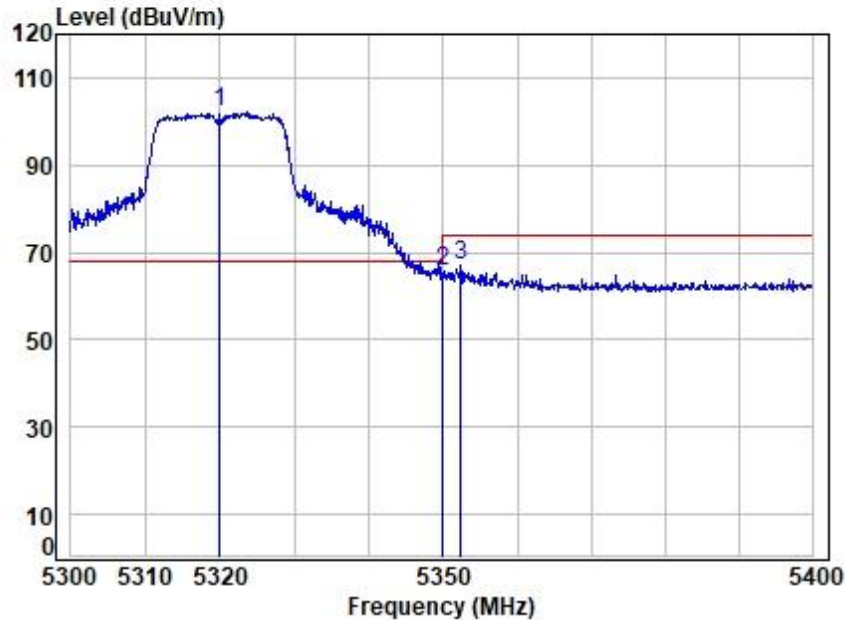
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 133 of 354

Test Mode: 15; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5320 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 . 5320.000		8.28	32.18	32.06	93.73	102.13	68.20	33.93 Peak
2 5350.020		8.28	32.25	32.10	57.07	65.50	74.00	-8.50 Peak
3 5352.367		8.28	32.26	32.10	58.54	66.98	74.00	-7.02 Peak



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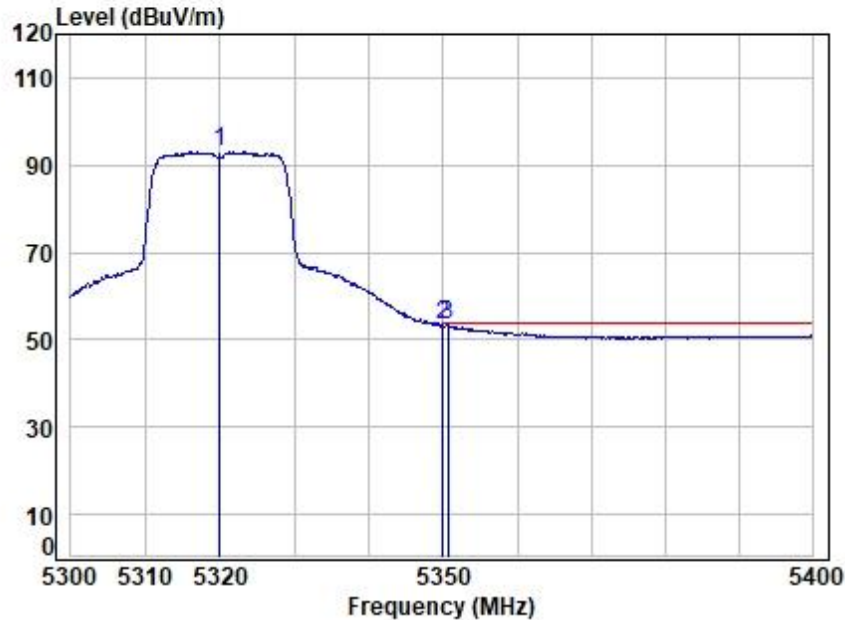
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 134 of 354

Test Mode: 15; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5320 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5320.000	8.28	32.18	32.06	84.72	93.12	-----	Average
2	5350.020	8.28	32.25	32.10	44.86	53.29	54.00	-0.71 Average
3	5350.667	8.28	32.25	32.10	44.87	53.30	54.00	-0.70 Average



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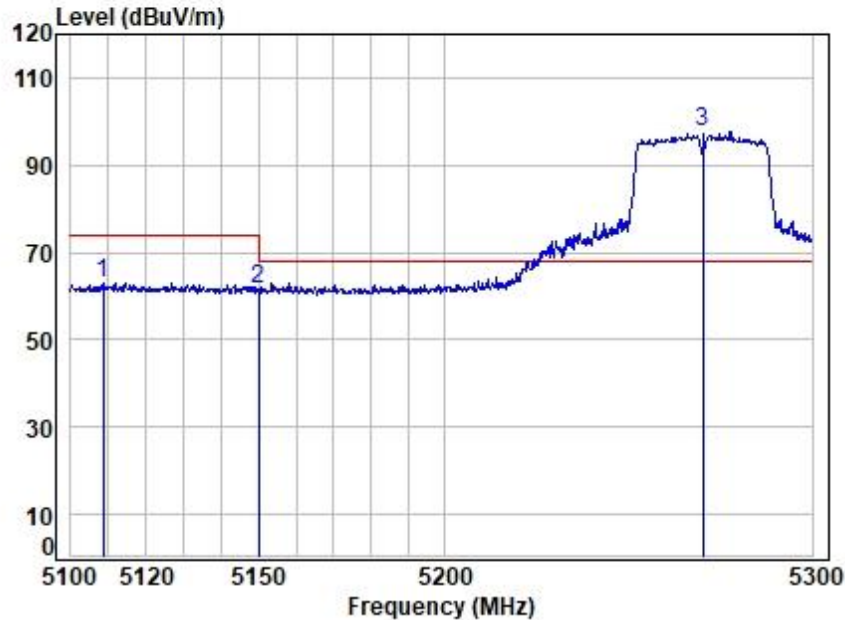
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 135 of 354

Test Mode: 15; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5270 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5108.639	8.29	31.67	31.76	54.79	62.99	74.00	-11.01 peak
2	5149.980	8.29	31.77	31.82	53.20	61.44	74.00	-12.56 peak
3	5270.000	8.28	32.06	31.99	89.35	97.70	68.20	29.50 peak



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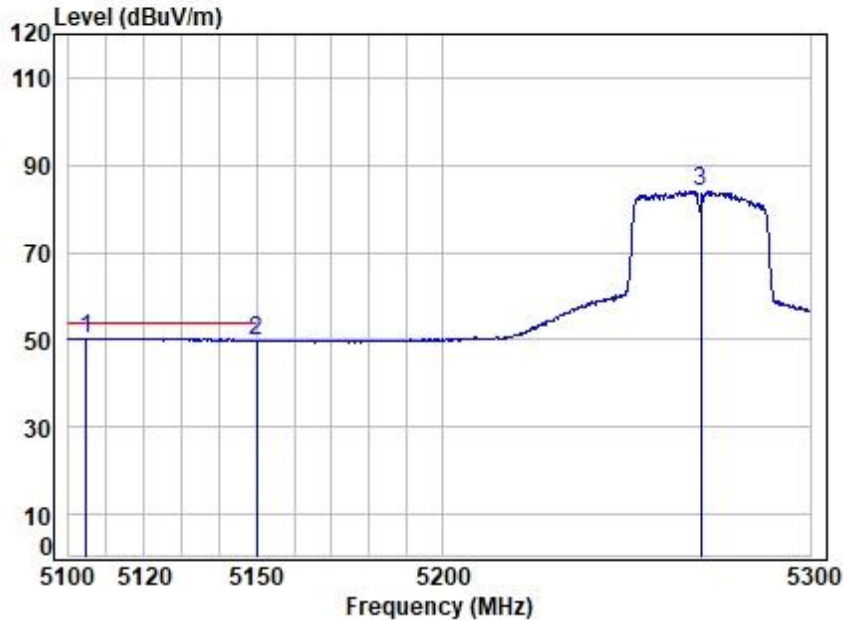
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 136 of 354

Test Mode: 15; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5270 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5104.514	8.29	31.66	31.75	42.15	50.35	54.00	-3.65	Average
2	5149.980	8.29	31.77	31.82	41.57	49.81	54.00	-4.19	Average
3	5270.000	8.28	32.06	31.99	75.69	84.04	-----	-----	Average



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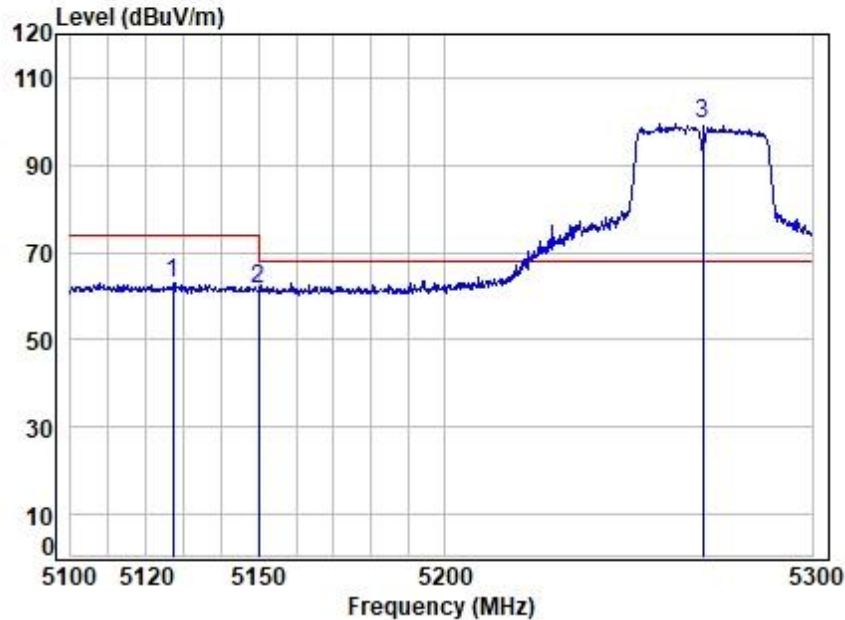
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 137 of 354

Test Mode: 15; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5270 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5127.145	8.29	31.72	31.78	54.87	63.10	74.00	-10.90	Peak
2	5149.980	8.29	31.77	31.82	53.56	61.80	74.00	-12.20	Peak
3	5270.000	8.28	32.06	31.99	91.21	99.56	68.20	31.36	Peak



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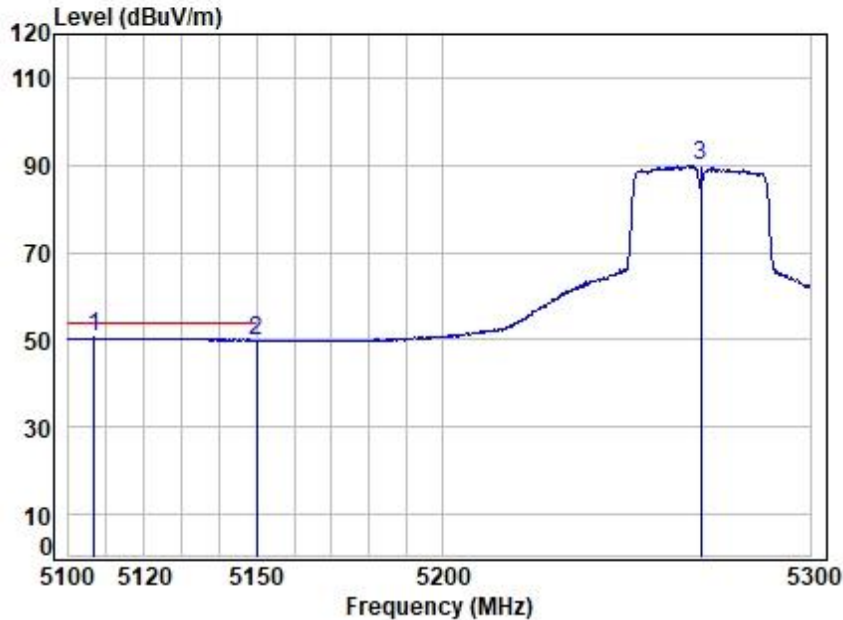
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 138 of 354

Test Mode: 15; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5270 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5106.871	8.29	31.67	31.76	42.25	50.45	54.00	-3.55 Average
2	5149.980	8.29	31.77	31.82	41.71	49.95	54.00	-4.05 Average
3	5270.000	8.28	32.06	31.99	81.51	89.86	-----	----- Average



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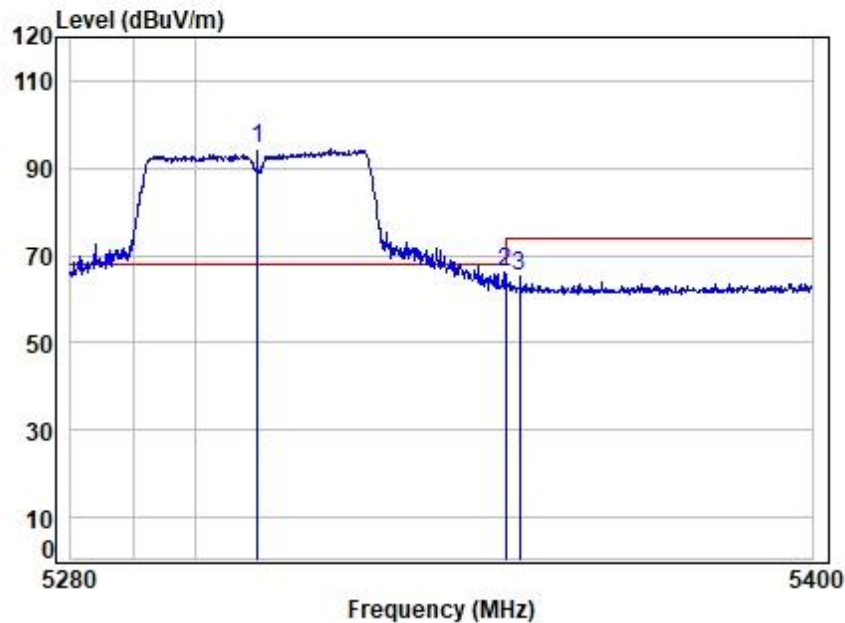
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 139 of 354

Test Mode: 15; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5310 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5310.000	8.28	32.16	32.04	85.93	94.33	68.20	26.13 peak
2	5350.020	8.28	32.25	32.10	57.90	66.33	74.00	-7.67 peak
3	5352.398	8.28	32.26	32.10	56.76	65.20	74.00	-8.80 peak



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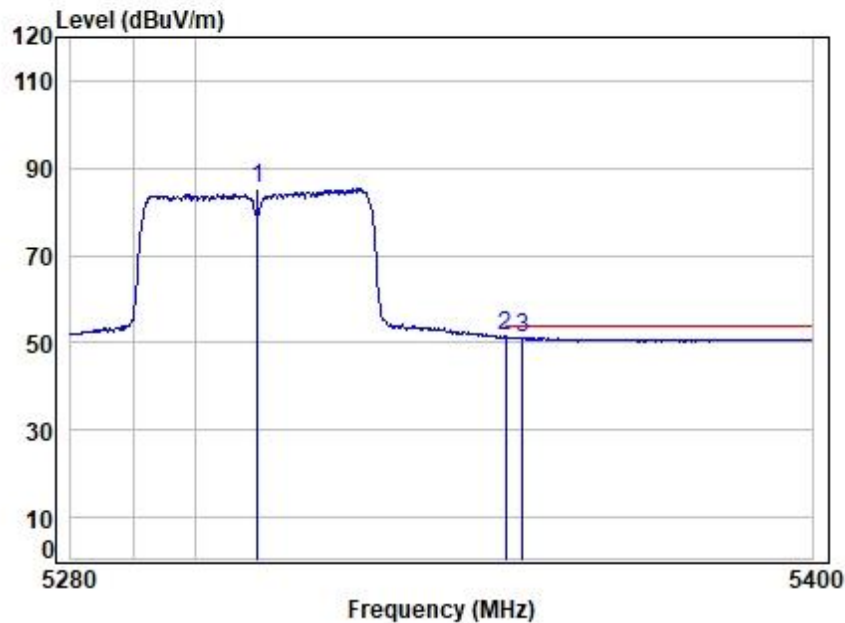
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 140 of 354

Test Mode: 15; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5310 Band edge
: 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5310.000	8.28	32.16	32.04	77.02	85.42	-----	-----	Average
2	5350.020	8.28	32.25	32.10	43.03	51.46	54.00	-2.54	Average
3	5352.759	8.28	32.26	32.10	42.80	51.24	54.00	-2.76	Average



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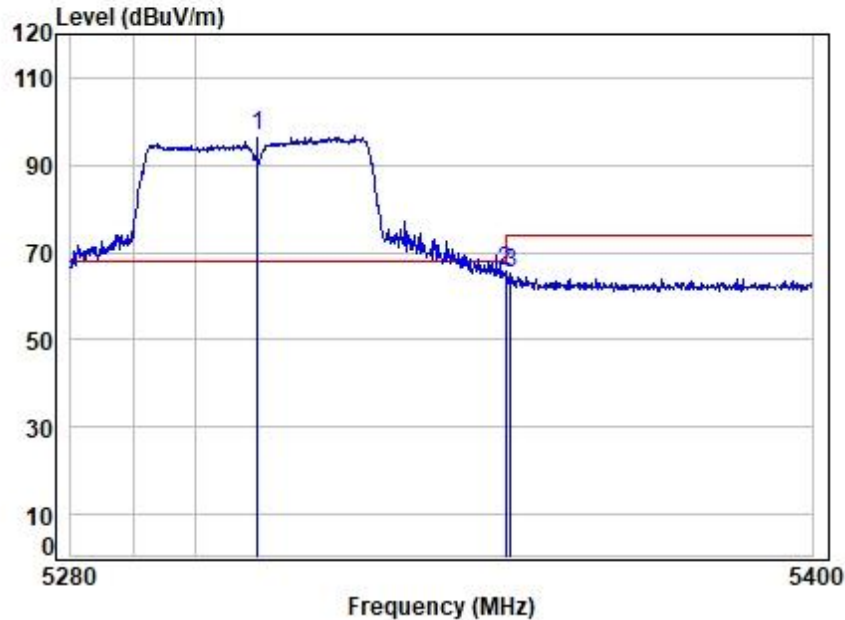
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 141 of 354

Test Mode: 15; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5310 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5310.000	8.28	32.16	32.04	88.14	96.54	68.20	28.34 Peak
2	5350.020	8.28	32.25	32.10	57.12	65.55	74.00	-8.45 Peak
3	5350.955	8.28	32.25	32.10	56.95	65.38	74.00	-8.62 Peak



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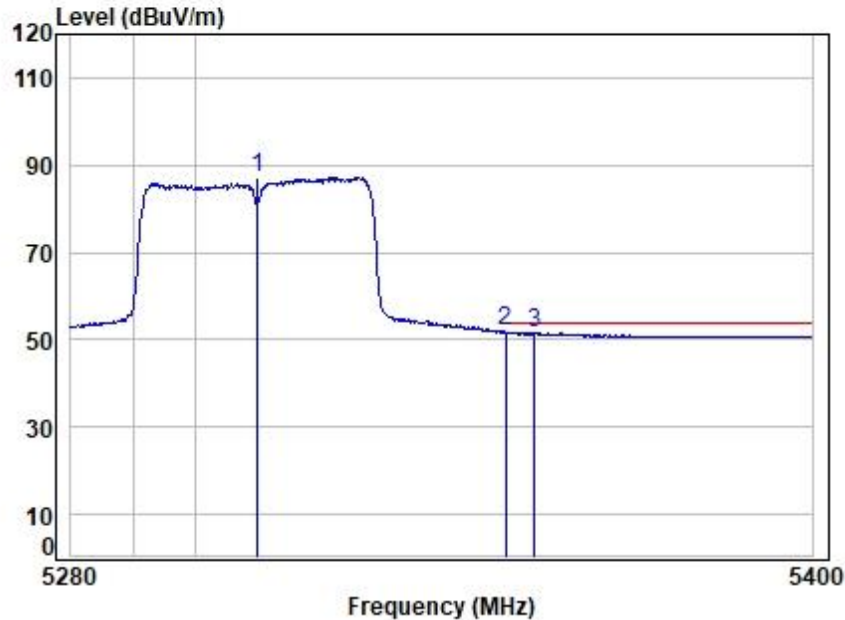
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 142 of 354

Test Mode: 15; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5310 Band edge
: 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5310.000	8.28	32.16	32.04	78.78	87.18	-----	-----	Average
2	5350.020	8.28	32.25	32.10	43.47	51.90	54.00	-2.10	Average
3	5354.804	8.28	32.26	32.10	43.21	51.65	54.00	-2.35	Average



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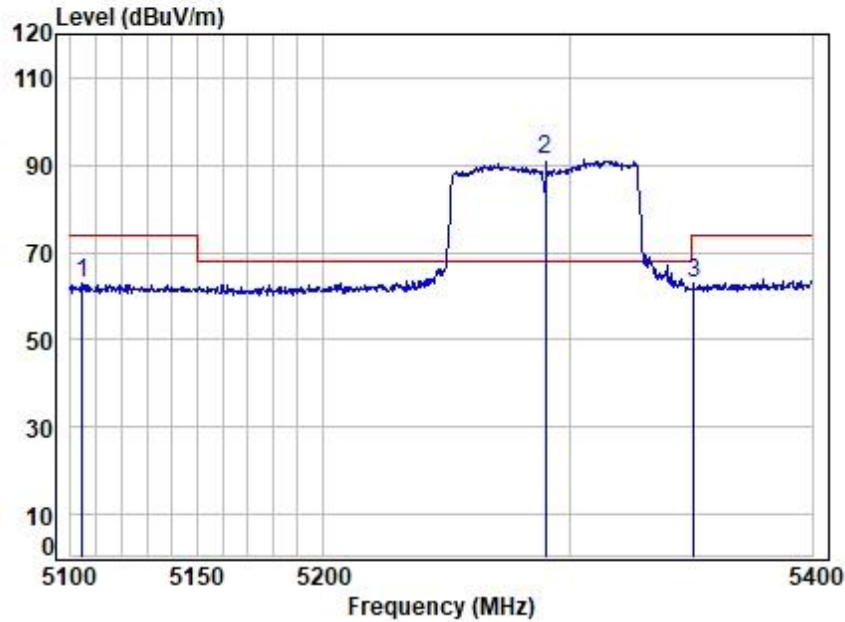
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 143 of 354

Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel: middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5290 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5104.667	8.29	31.66	31.75	54.69	62.89	74.00	-11.11 peak
2	5290.000	8.28	32.11	32.01	82.74	91.12	68.20	22.92 peak
3	5350.840	8.28	32.25	32.10	54.60	63.03	74.00	-10.97 peak



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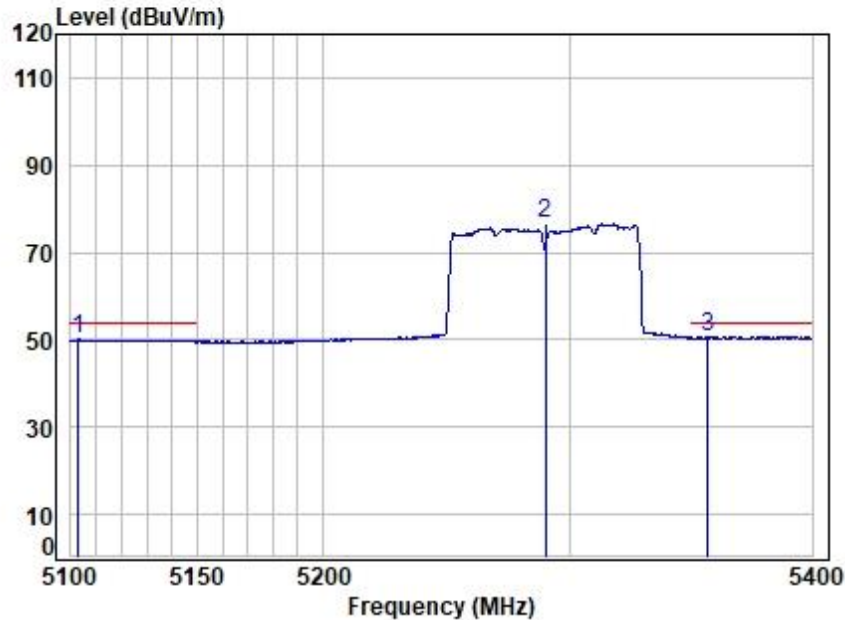
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 144 of 354

Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel: middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5290 Band edge
: 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5102.916	8.29	31.66	31.75	41.79	49.99	54.00	-4.01	Average
2	5290.000	8.28	32.11	32.01	68.08	76.46	-----	-----	Average
3	5356.654	8.28	32.27	32.11	42.14	50.58	54.00	-3.42	Average



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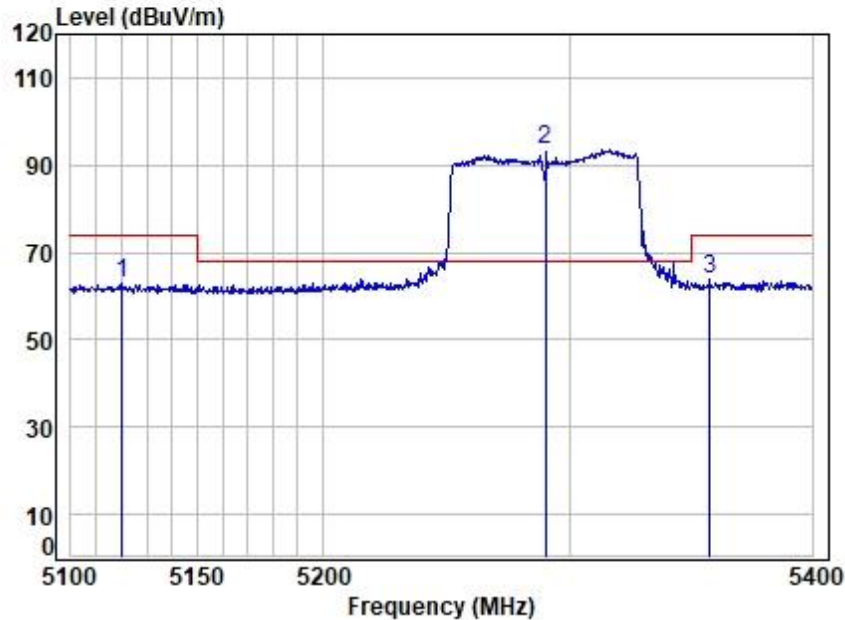
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 145 of 354

Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel: middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5290 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5120.154	8.29	31.70	31.77	54.54	62.76	74.00	-11.24 Peak
2	5290.000	8.28	32.11	32.01	85.32	93.70	68.20	25.50 Peak
3	5357.573	8.28	32.27	32.11	55.44	63.88	74.00	-10.12 Peak



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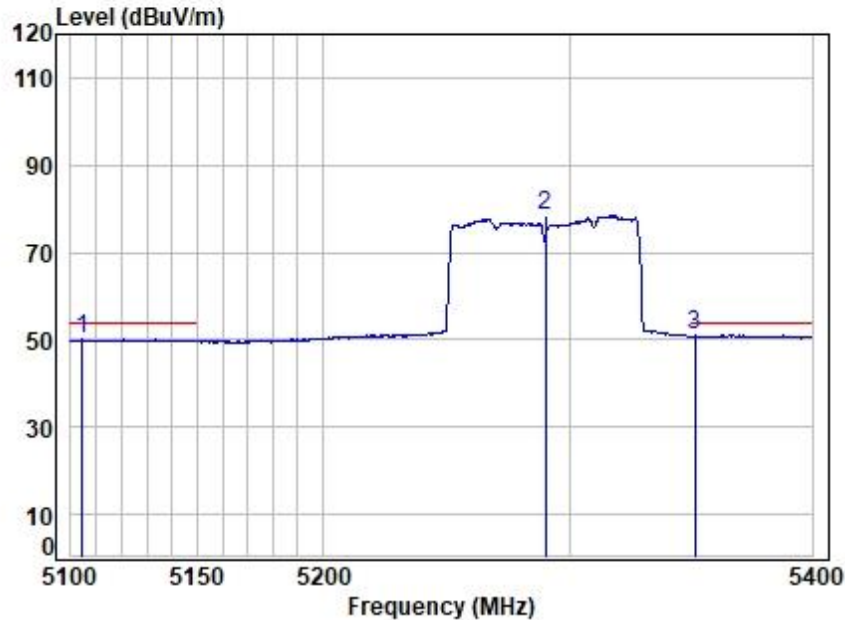
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 146 of 354

Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel: middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5290 Band edge
: 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5104.667	8.29	31.66	31.75	41.84	50.04	54.00	-3.96	Average
2	5290.000	8.28	32.11	32.01	69.99	78.37	-----	-----	Average
3	5351.452	8.28	32.26	32.10	42.46	50.90	54.00	-3.10	Average



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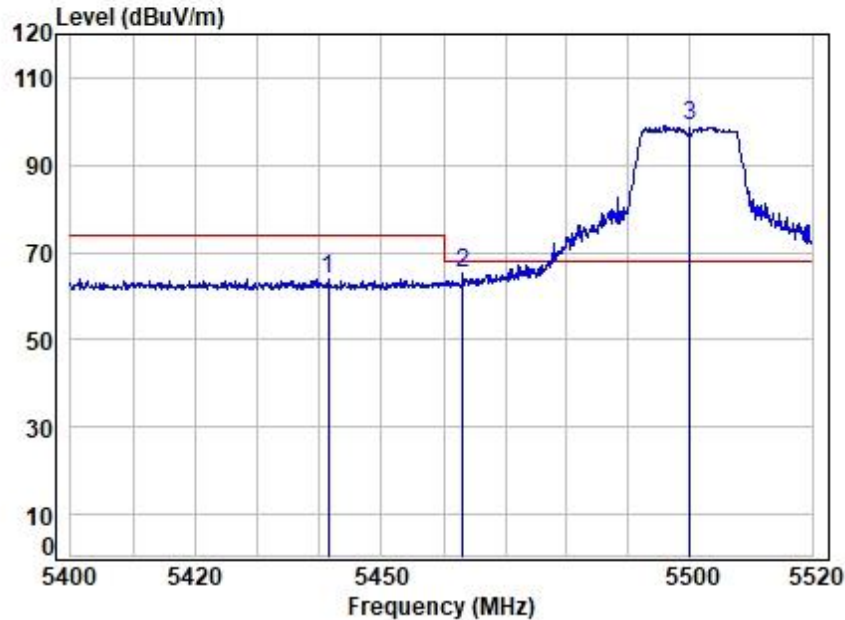
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 147 of 354

Test Mode: 16; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5500 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5441.341	8.27	32.46	32.22	55.50	64.01	74.00	-9.99 peak
2	5463.151	8.27	32.52	32.25	56.84	65.38	68.20	-2.82 peak
3	5500.000	8.27	32.60	32.30	90.34	98.91	68.20	30.71 peak



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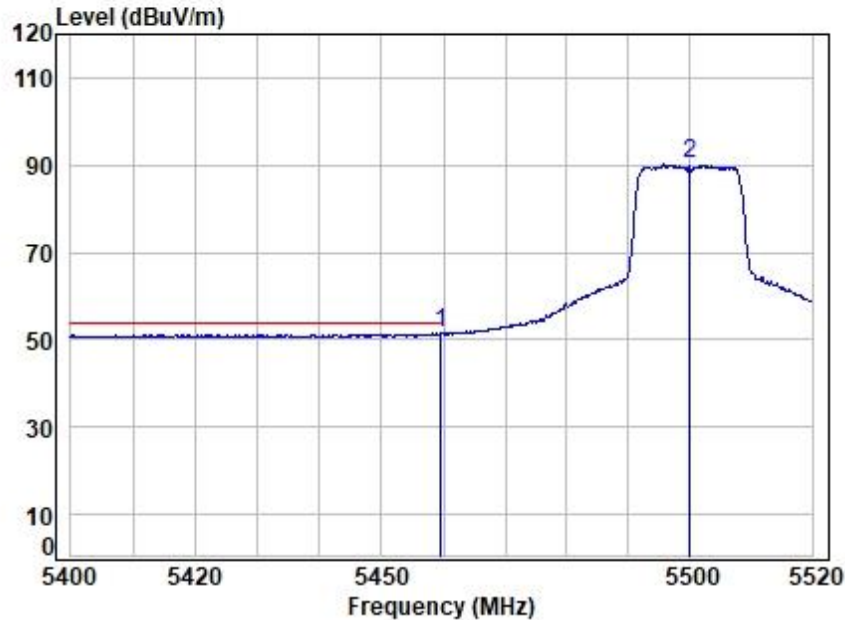
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 148 of 354

Test Mode: 16; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5500 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5459.670	8.27	32.51	32.25	43.11	51.64	54.00	-2.36 Average
2	5500.000	8.27	32.60	32.30	81.57	90.14	-----	----- Average



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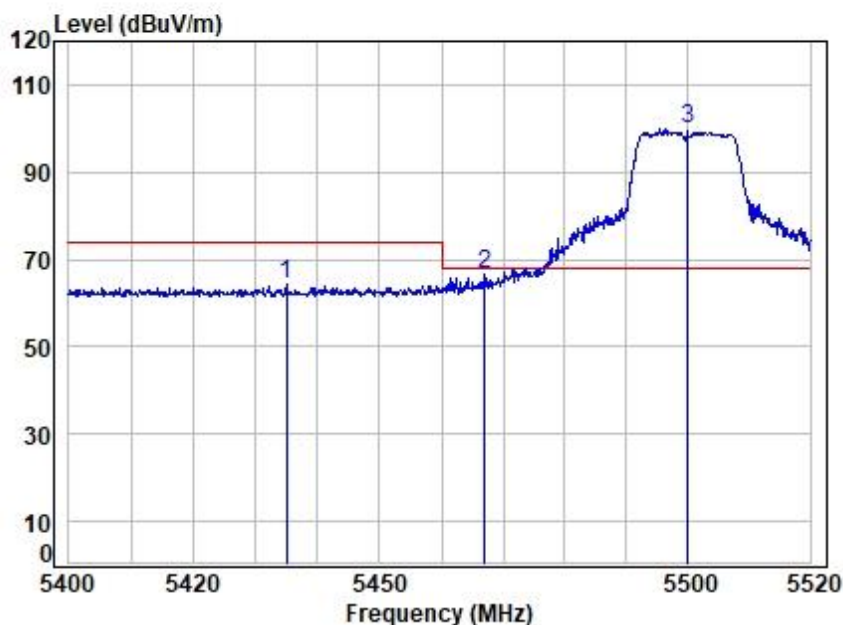
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 149 of 354

Test Mode: 16; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5500 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5435.007	8.27	32.45	32.21	55.68	64.19	74.00	-9.81 Peak
2	5466.995	8.27	32.52	32.26	57.88	66.41	68.20	-1.79 peak
3	5500.000	8.27	32.60	32.30	91.41	99.98	68.20	31.78 Peak



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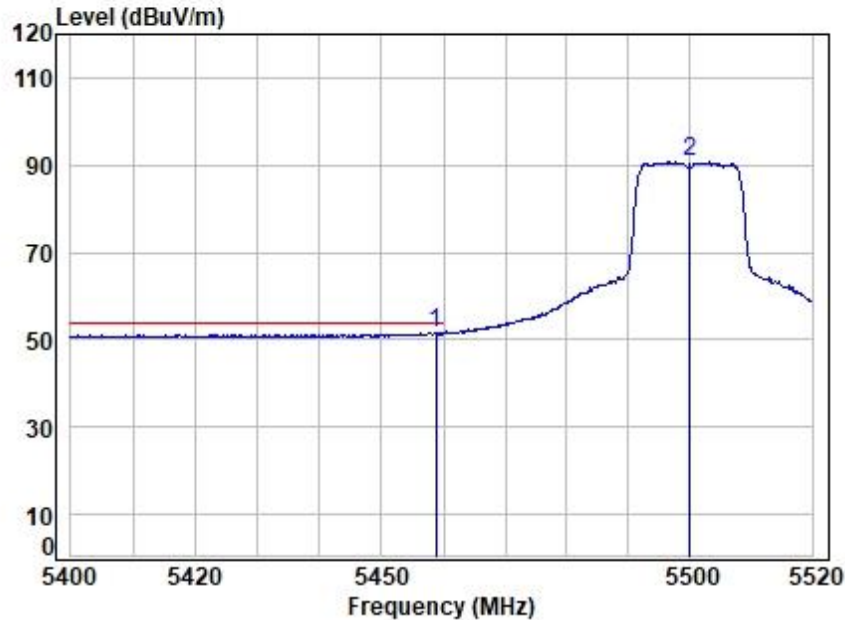
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 150 of 354

Test Mode: 16; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00472AT
 Mode : 5500 Band edge
 : 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5458.710	8.27	32.51	32.24	43.02	51.56	54.00	-2.44 Average
2	5500.000	8.27	32.60	32.30	82.07	90.64	-----	----- Average



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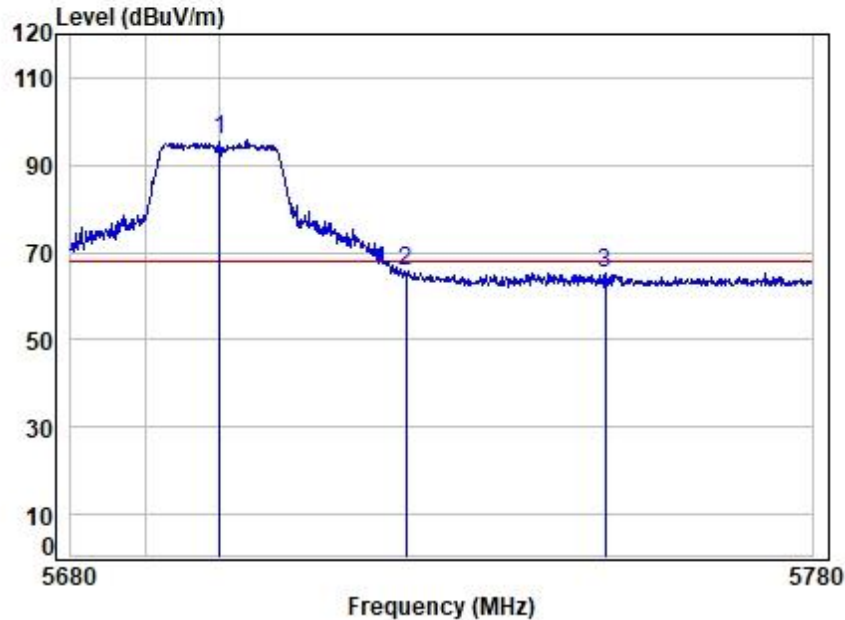
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 151 of 354

Test Mode: 16; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5700 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dB	
1 . 5700.000		8.01	32.52	32.22	87.35	95.66	68.20	27.46 peak
2 5725.000		7.98	32.51	32.21	57.39	65.67	68.20	-2.53 peak
3 5751.924		7.95	32.50	32.20	56.96	65.21	68.20	-2.99 Peak



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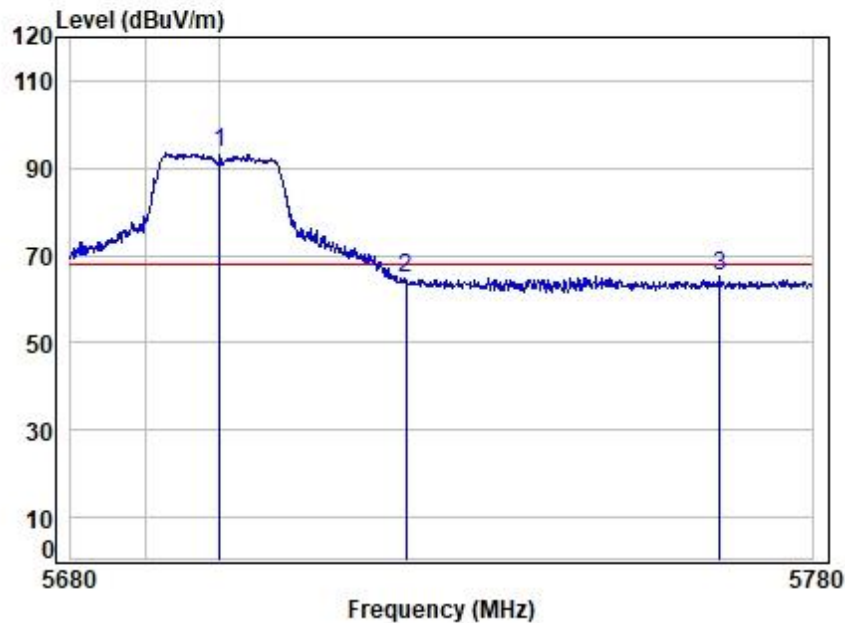
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 152 of 354

Test Mode: 16; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5700 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dB	
1 . 5700.000		8.01	32.52	32.22	85.03	93.34	68.20	25.14 Peak
2 5725.000		7.98	32.51	32.21	56.42	64.70	68.20	-3.50 Peak
3 5767.404		7.93	32.49	32.19	57.12	65.35	68.20	-2.85 Peak



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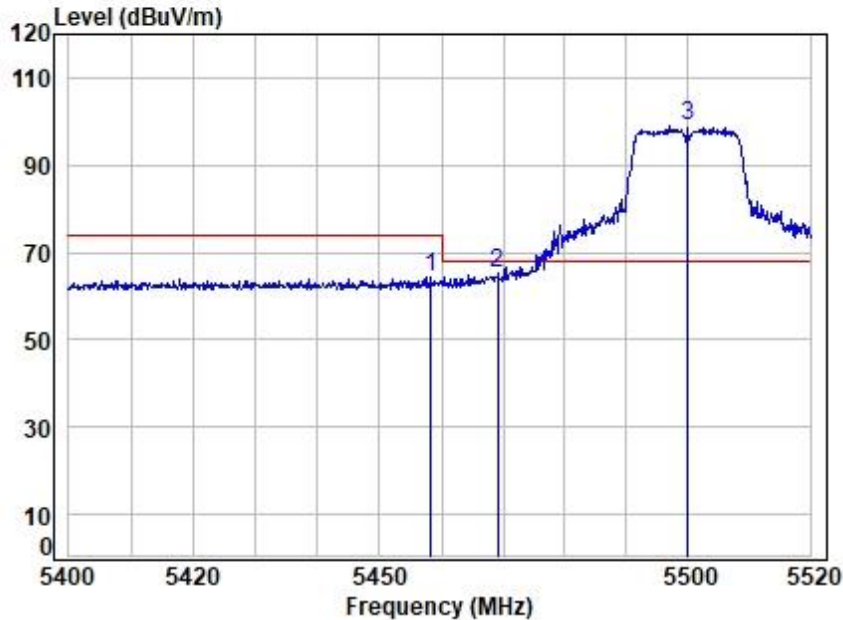
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 153 of 354

Test Mode: 16; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5500 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5458.230	8.27	32.50	32.24	55.99	64.52	74.00	-9.48	peak
2	5469.158	8.27	32.53	32.26	56.49	65.03	68.20	-3.17	peak
3	5500.000	8.27	32.60	32.30	90.41	98.98	68.20	30.78	peak



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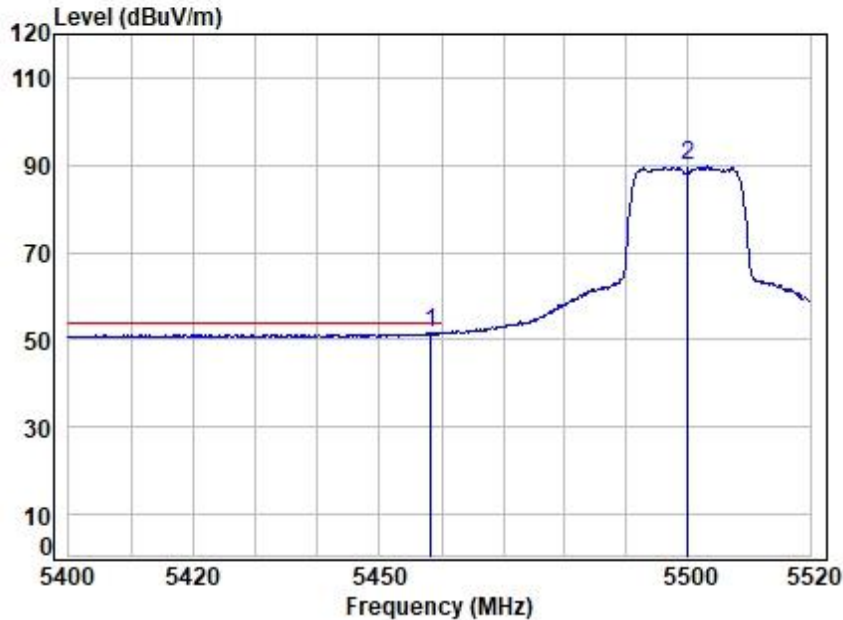
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 154 of 354

Test Mode: 16; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5500 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5458.351	8.27	32.50	32.24	43.11	51.64	54.00	-2.36 Average
2	5500.000	8.27	32.60	32.30	81.15	89.72	-----	----- Average



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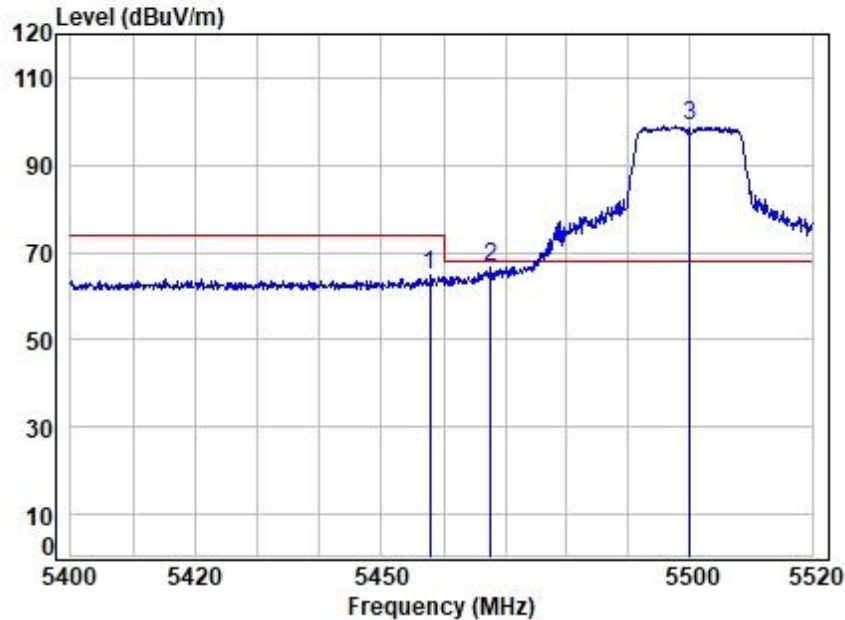
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 155 of 354

Test Mode: 16; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5500 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5457.871	8.27	32.50	32.24	56.44	64.97	74.00	-9.03	Peak
2	5467.716	8.27	32.53	32.26	58.19	66.73	68.20	-1.47	peak
3	5500.000	8.27	32.60	32.30	90.35	98.92	68.20	30.72	Peak



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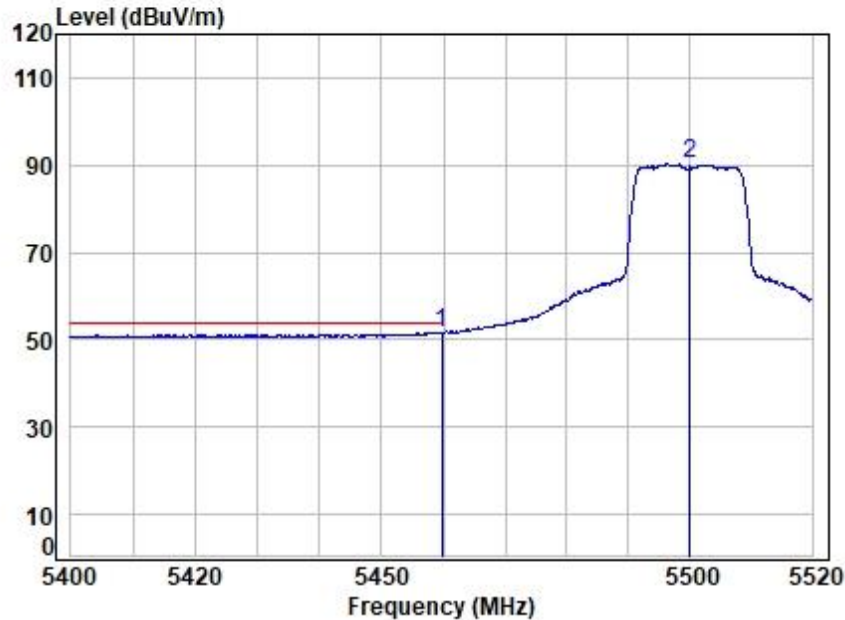
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 156 of 354

Test Mode: 16; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5500 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5459.791	8.27	32.51	32.25	43.17	51.70	54.00	-2.30 Average
2	5500.000	8.27	32.60	32.30	81.69	90.26	-----	----- Average



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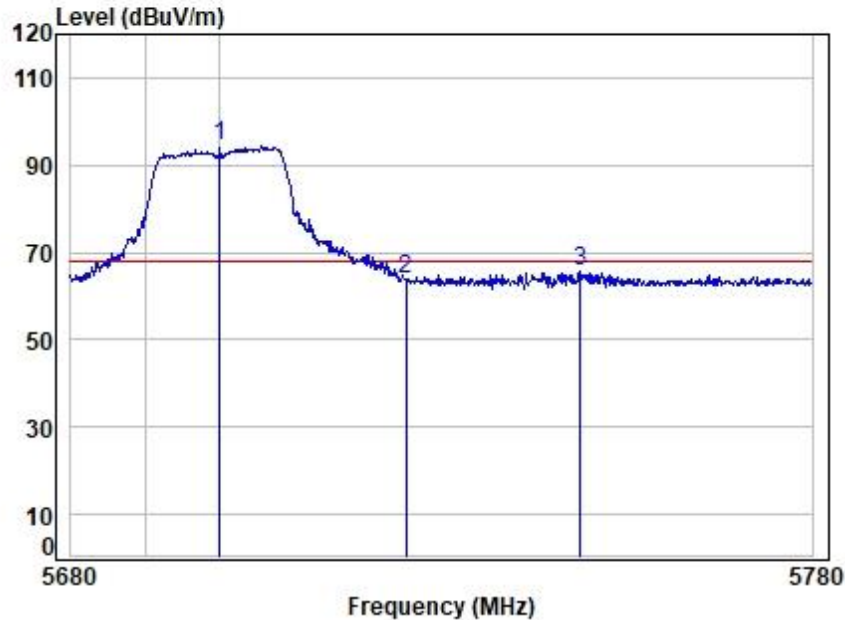
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 157 of 354

Test Mode: 16; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5700 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 . 5700.000		8.01	32.52	32.22	86.06	94.37	68.20	26.17 peak
2 5725.000		7.98	32.51	32.21	55.79	64.07	68.20	-4.13 peak
3 5748.512		7.95	32.50	32.20	57.50	65.75	68.20	-2.45 Peak



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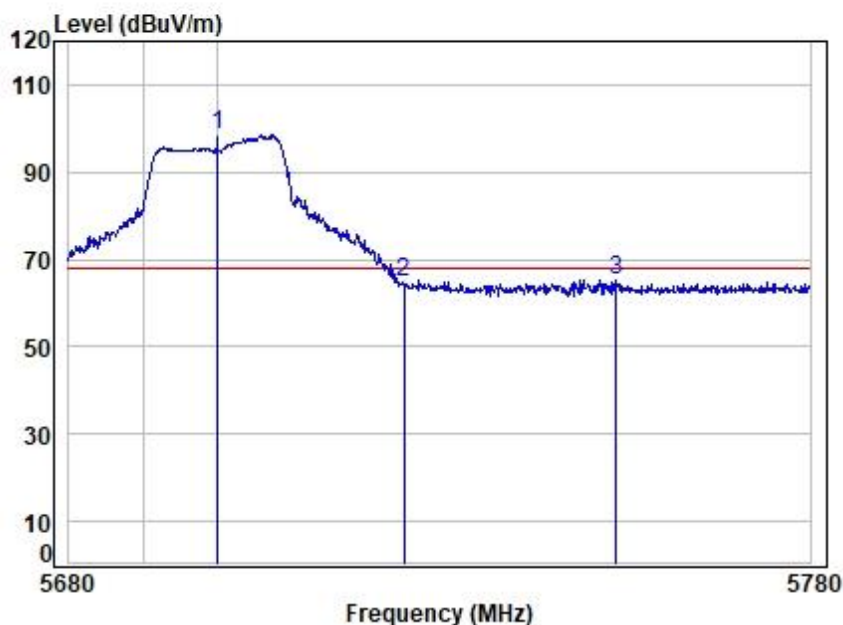
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 158 of 354

Test Mode: 16; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5700 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 . 5700.000		8.01	32.52	32.22	90.10	98.41	68.20	30.21 Peak
2 5725.000		7.98	32.51	32.21	56.65	64.93	68.20	-3.27 Peak
3 5753.731		7.94	32.50	32.20	57.20	65.44	68.20	-2.76 Peak



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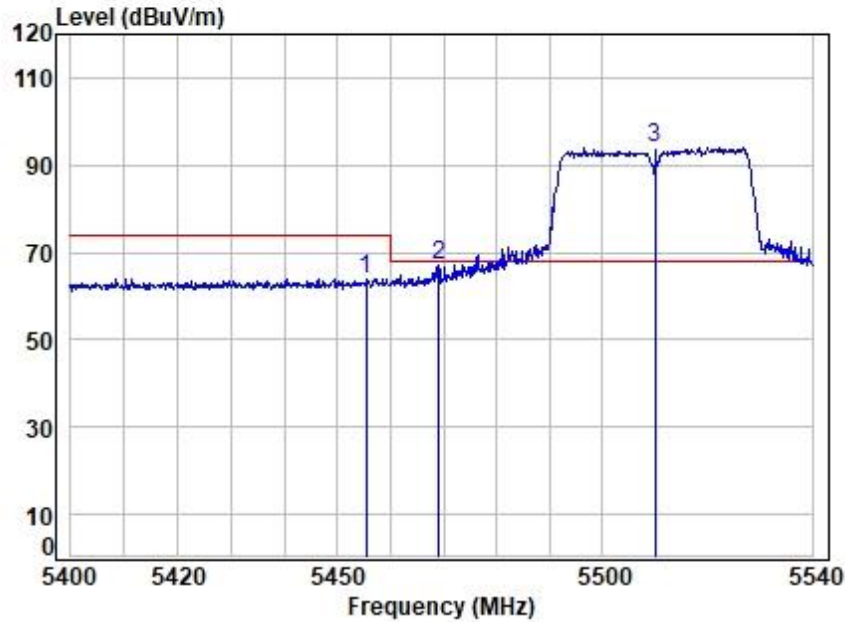
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 159 of 354

Test Mode: 16; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5510 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5455.291	8.27	32.50	32.24	55.54	64.07	74.00	-9.93 peak
2	5469.132	8.27	32.53	32.26	58.60	67.14	68.20	-1.06 peak
3	5510.000	8.26	32.60	32.30	85.63	94.19	68.20	25.99 peak



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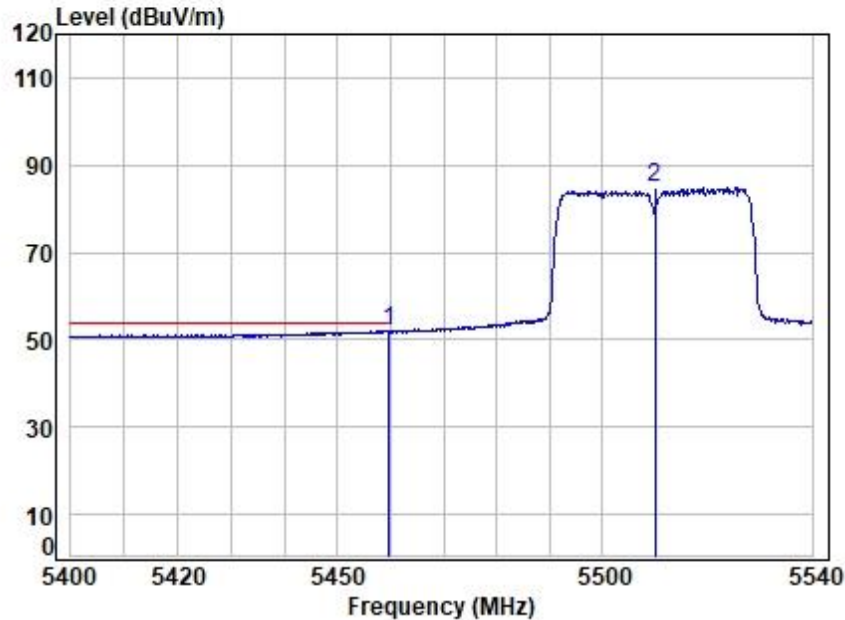
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 160 of 354

Test Mode: 16; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel: Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00472AT
 Mode : 5510 Band edge
 : 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5459.761	8.27	32.51	32.25	43.65	52.18	54.00	-1.82 Average
2	5510.000	8.26	32.60	32.30	76.39	84.95	-----	----- Average



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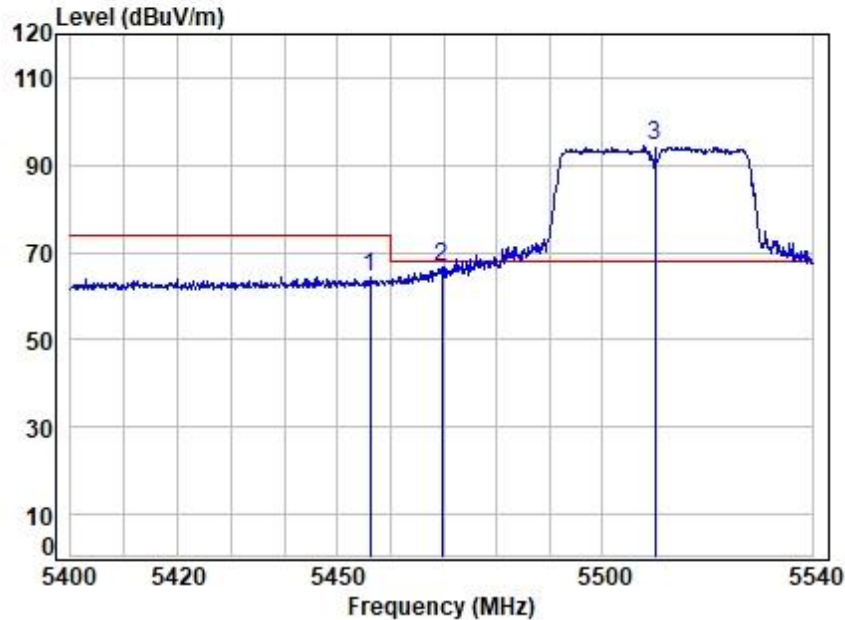
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 161 of 354

Test Mode: 16; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5510 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5456.129	8.27	32.50	32.24	55.98	64.51	74.00	-9.49 Peak
2	5469.692	8.27	32.53	32.26	57.90	66.44	68.20	-1.76 peak
3	5510.000	8.26	32.60	32.30	85.79	94.35	68.20	26.15 Peak



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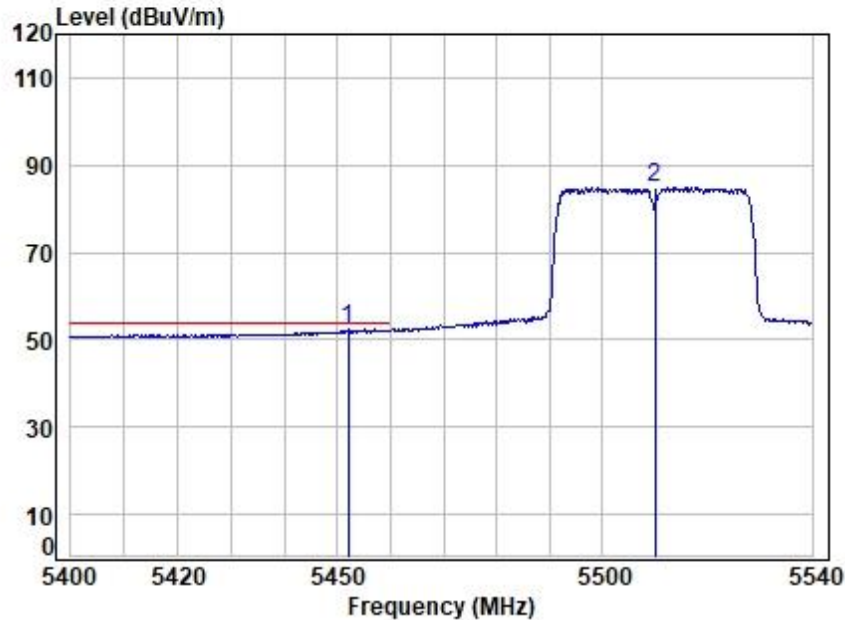
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 162 of 354

Test Mode: 16; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5510 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5451.941	8.27	32.49	32.24	43.78	52.30	54.00	-1.70 Average
2	5510.000	8.26	32.60	32.30	76.28	84.84	-----	----- Average



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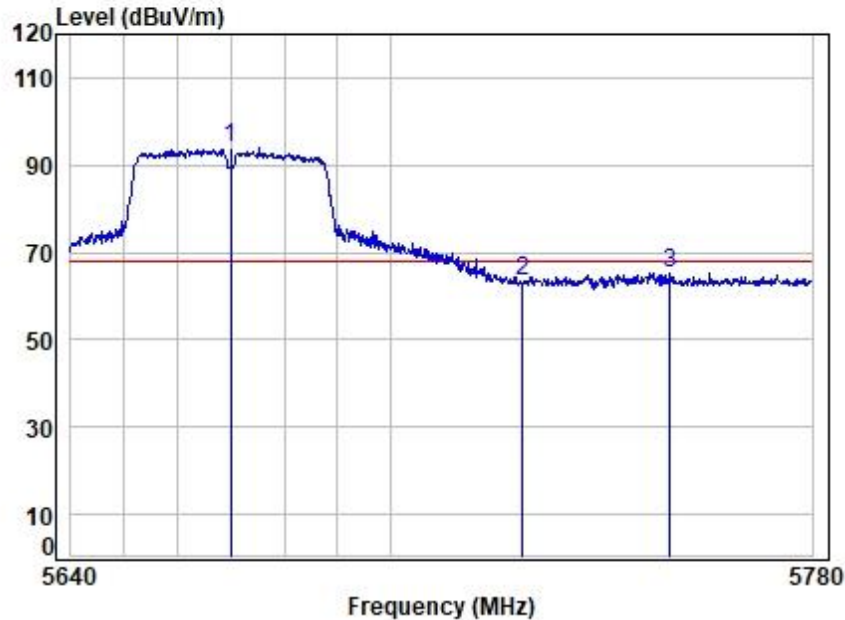
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 163 of 354

Test Mode: 16; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5670 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 . 5670.000		8.05	32.53	32.23	85.78	94.13	68.20	25.93 peak
2 5725.000		7.98	32.51	32.21	55.09	63.37	68.20	-4.83 peak
3 5752.994		7.94	32.50	32.20	57.05	65.29	68.20	-2.91 Peak



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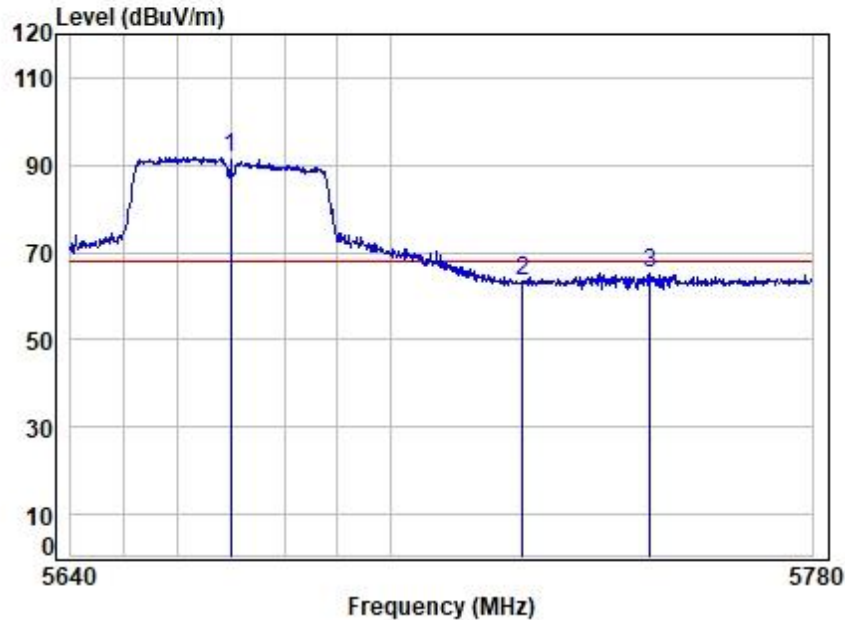
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 164 of 354

Test Mode: 16; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5670 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 . 5670.000		8.05	32.53	32.23	83.46	91.81	68.20	23.61 Peak
2 5725.000		7.98	32.51	32.21	55.26	63.54	68.20	-4.66 Peak
3 5749.187		7.95	32.50	32.20	56.86	65.11	68.20	-3.09 Peak



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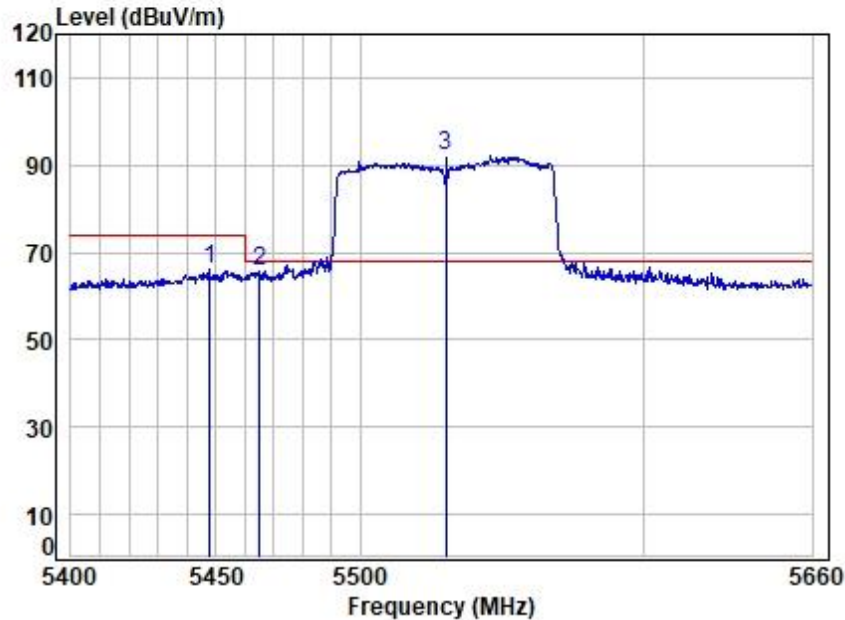
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 165 of 354

Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5530 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5447.695	8.27	32.48	32.23	57.61	66.13	74.00	-7.87	peak
2	5465.143	8.27	32.52	32.25	57.14	65.68	68.20	-2.52	peak
3	5530.000	8.23	32.59	32.29	83.47	92.00	68.20	23.80	peak



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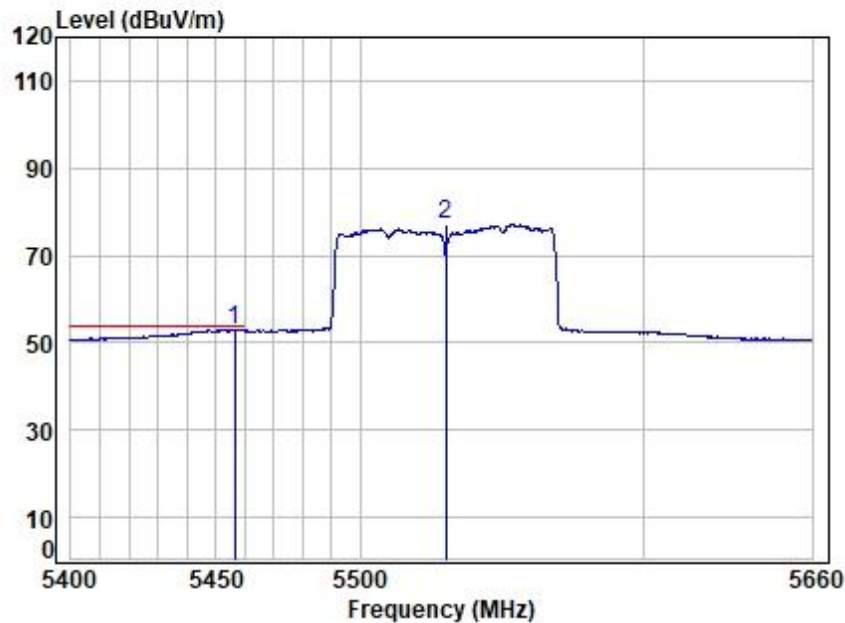
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 166 of 354

Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5530 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5456.412	8.27	32.50	32.24	44.51	53.04	54.00	-0.96 Average
2	5530.000	8.23	32.59	32.29	68.56	77.09	-----	----- Average



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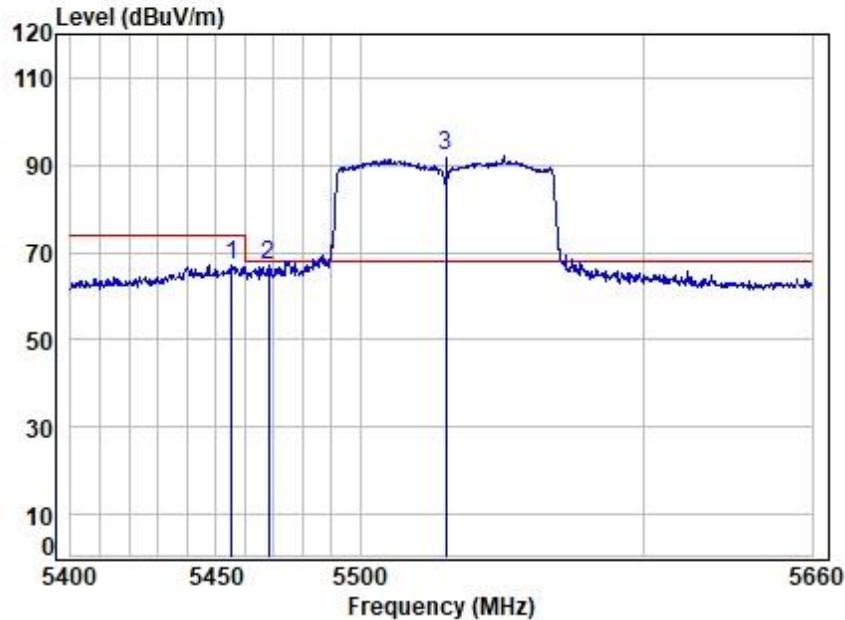
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 167 of 354

Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5530 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5455.386	8.27	32.50	32.24	58.64	67.17	74.00	-6.83	Peak
2	5468.228	8.27	32.53	32.26	58.46	67.00	68.20	-1.20	peak
3	5530.000	8.23	32.59	32.29	83.62	92.15	68.20	23.95	Peak



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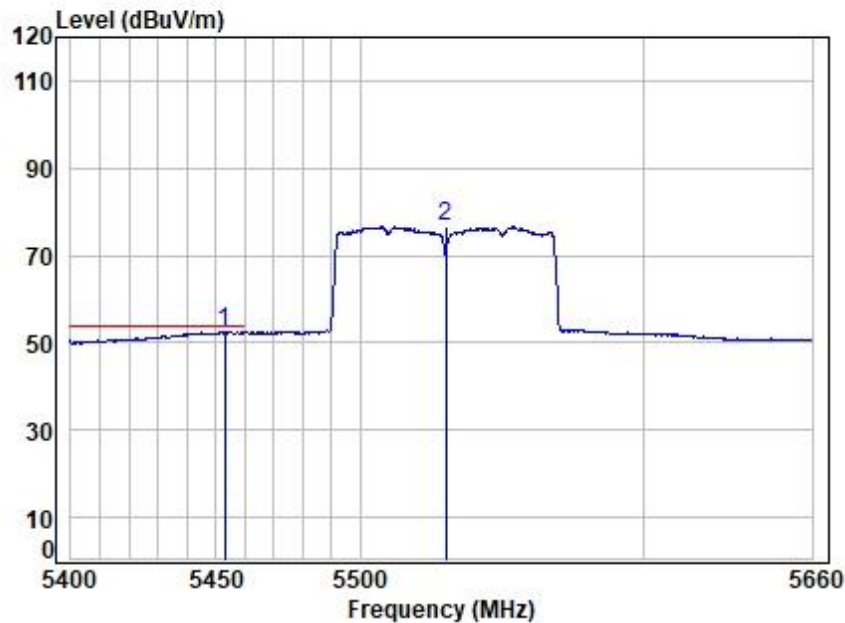
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 168 of 354

Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5530 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5453.078	8.27	32.49	32.24	43.98	52.50	54.00	-1.50 Average
2	5530.000	8.23	32.59	32.29	68.01	76.54	-----	----- Average



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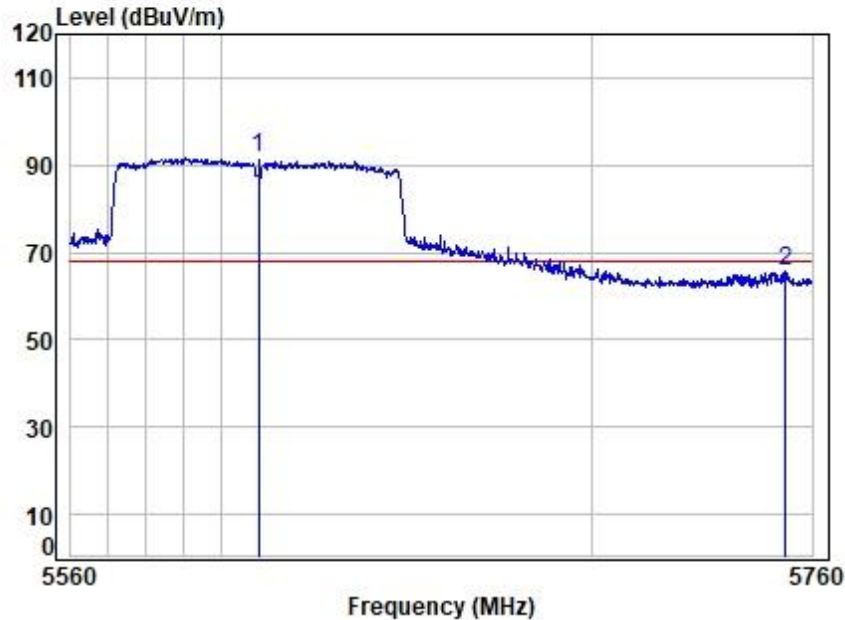
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 169 of 354

Test Mode: 16; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5610 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5610.000	8.13	32.55	32.25	83.08	91.51	68.20	23.31 peak
2	5752.677	7.94	32.50	32.20	57.27	65.51	68.20	-2.69 Peak



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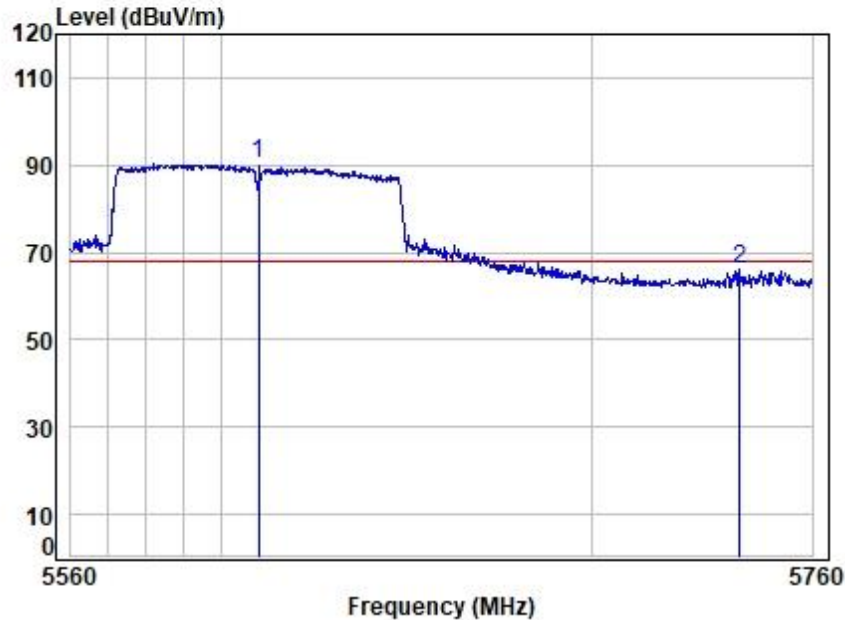
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 170 of 354

Test Mode: 16; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5610 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dB	
1 . 5610.000		8.13	32.55	32.25	81.97	90.40	68.20	Peak
2 5740.086		7.96	32.50	32.20	57.77	66.03	68.20	-2.17 Peak



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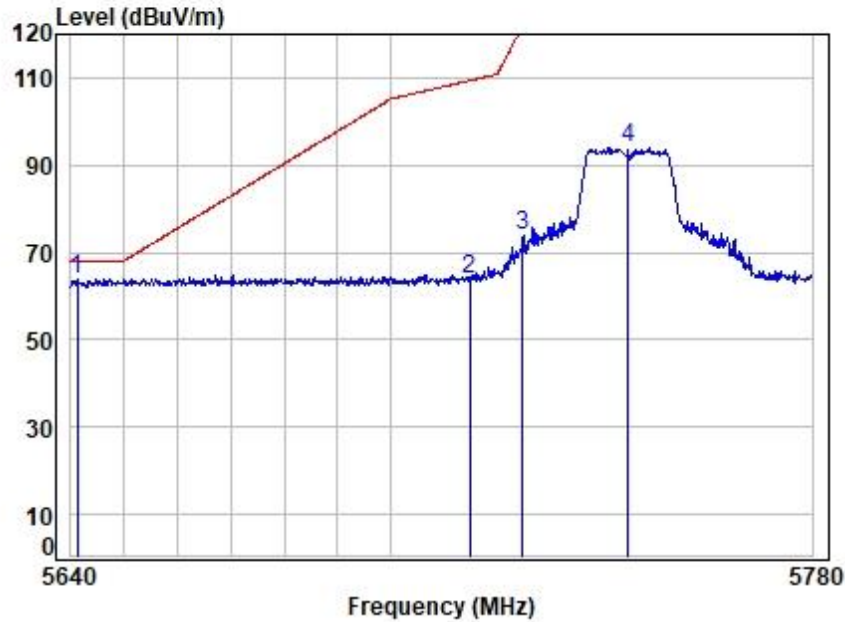
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 171 of 354

Test Mode: 17; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5745 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5641.245	8.09	32.54	32.24	55.66	64.05	68.20	-4.15 peak
2	5715.000	7.99	32.51	32.21	55.65	63.94	109.40	-45.46 peak
3	5725.000	7.98	32.51	32.21	65.44	73.72	122.20	-48.48 peak
4	5745.000	7.95	32.50	32.20	85.84	94.09	-----	----- peak



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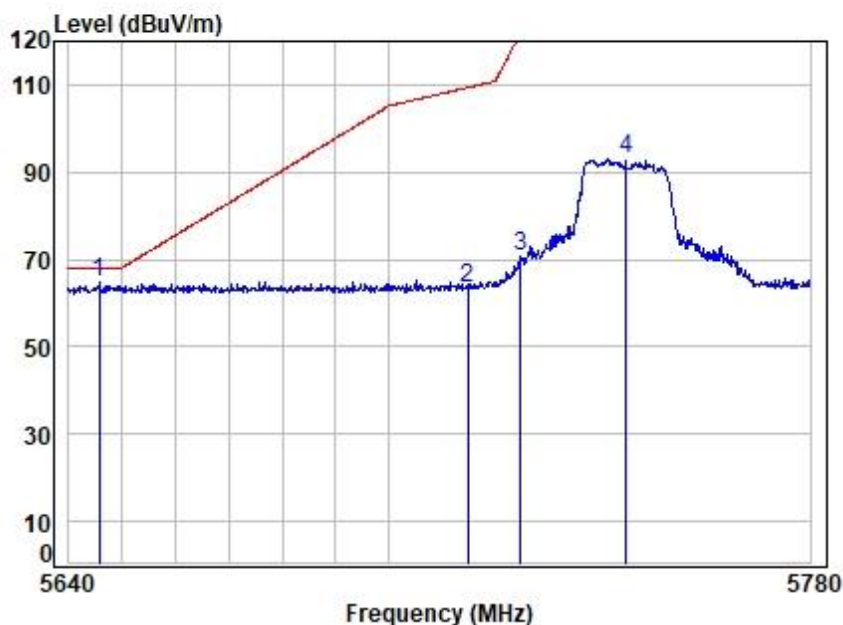
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 172 of 354

Test Mode: 17; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5745 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5645.673	8.08	32.54	32.24	56.20	64.58	68.20	-3.62 peak
2	5715.000	7.99	32.51	32.21	55.11	63.40	109.40	-46.00 peak
3	5725.000	7.98	32.51	32.21	62.29	70.57	122.20	-51.63 peak
4	5745.000	7.95	32.50	32.20	84.62	92.87	-----	----- peak



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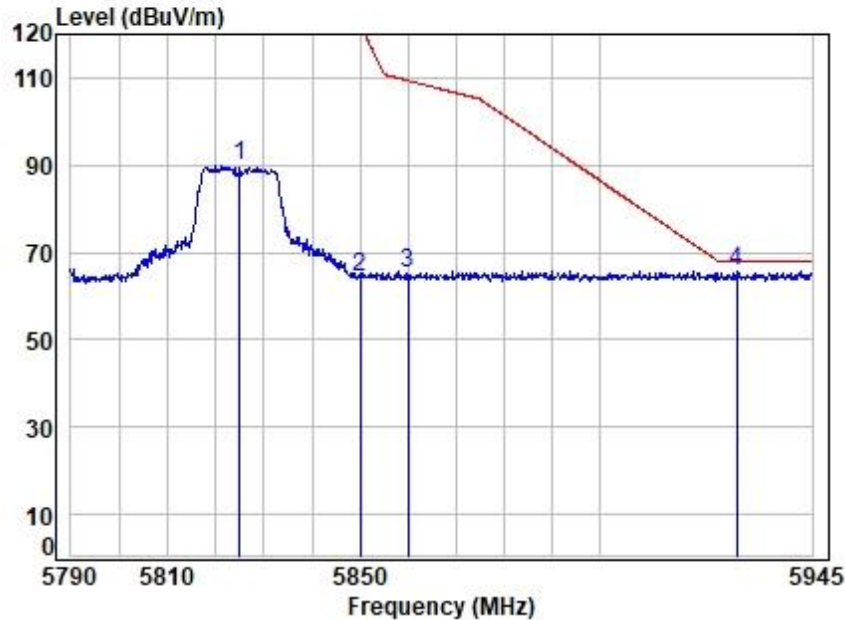
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 173 of 354

Test Mode: 17; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5825 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	7.85	32.47	32.17	81.72	89.87	-----	-----	peak
2	5850.000	7.82	32.46	32.16	56.39	64.51	122.20	-57.69	peak
3	5860.000	7.81	32.45	32.15	57.26	65.37	109.40	-44.03	peak
4	5929.002	7.73	32.43	32.13	57.64	65.67	68.20	-2.53	peak



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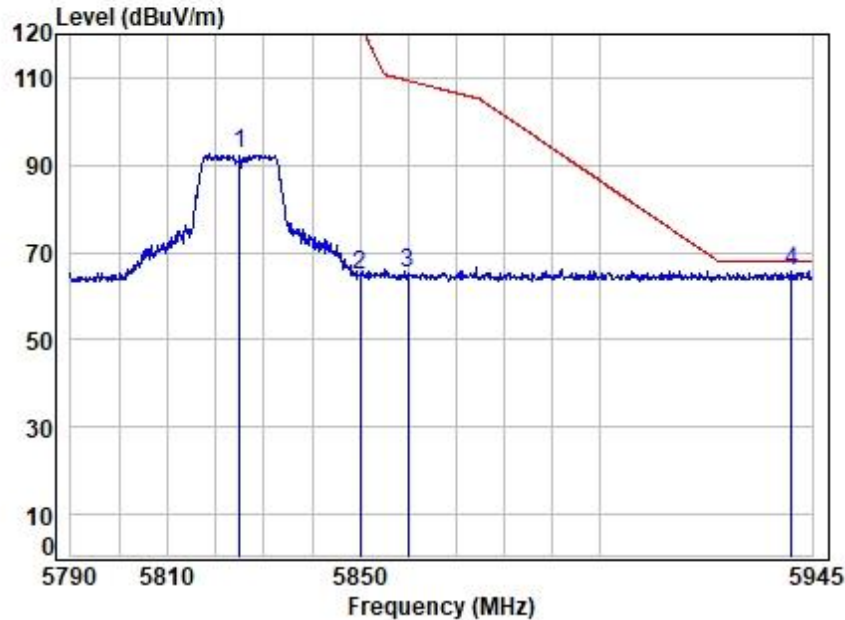
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 174 of 354

Test Mode: 17; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5825 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	7.85	32.47	32.17	84.27	92.42	-----	-----	peak
2	5850.000	7.82	32.46	32.16	56.55	64.67	122.20	-57.53	peak
3	5860.000	7.81	32.45	32.15	57.30	65.41	109.40	-43.99	peak
4	5940.604	7.71	32.42	32.12	57.61	65.62	68.20	-2.58	peak



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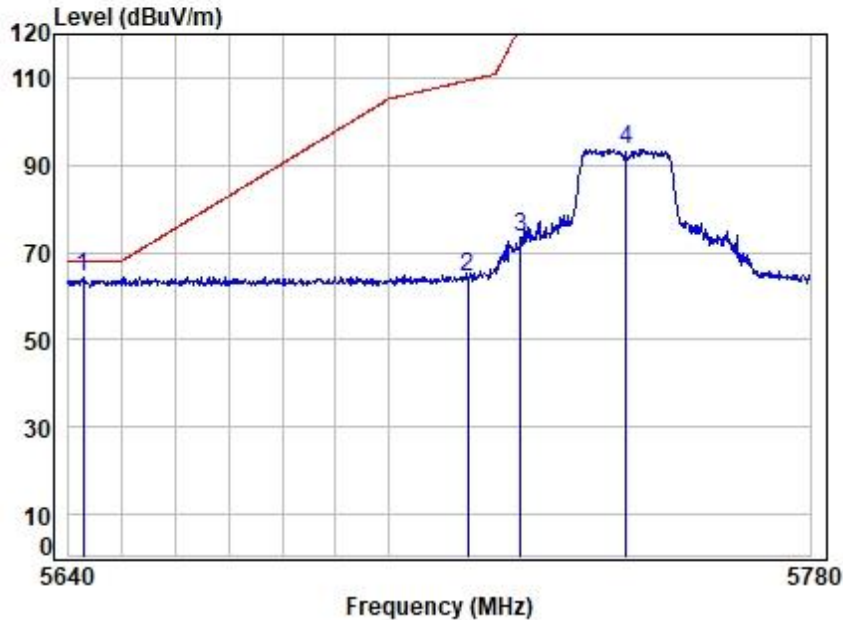
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 175 of 354

Test Mode: 17; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5745 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5642.628	8.08	32.54	32.24	56.05	64.43	68.20	-3.77	peak
2	5715.000	7.99	32.51	32.21	56.18	64.47	109.40	-44.93	peak
3	5725.000	7.98	32.51	32.21	65.04	73.32	122.20	-48.88	peak
4	5745.000	7.95	32.50	32.20	85.33	93.58	-----	-----	peak



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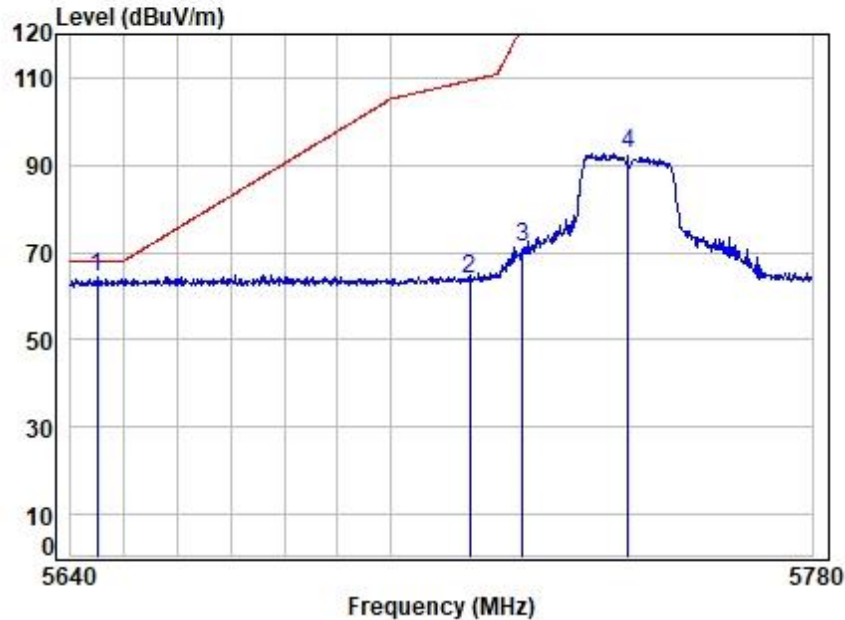
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 176 of 354

Test Mode: 17; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5745 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5644.980	8.08	32.54	32.24	55.96	64.34	68.20	-3.86 peak
2	5715.000	7.99	32.51	32.21	55.52	63.81	109.40	-45.59 peak
3	5725.000	7.98	32.51	32.21	62.71	70.99	122.20	-51.21 peak
4	5745.000	7.95	32.50	32.20	84.39	92.64	-----	----- peak



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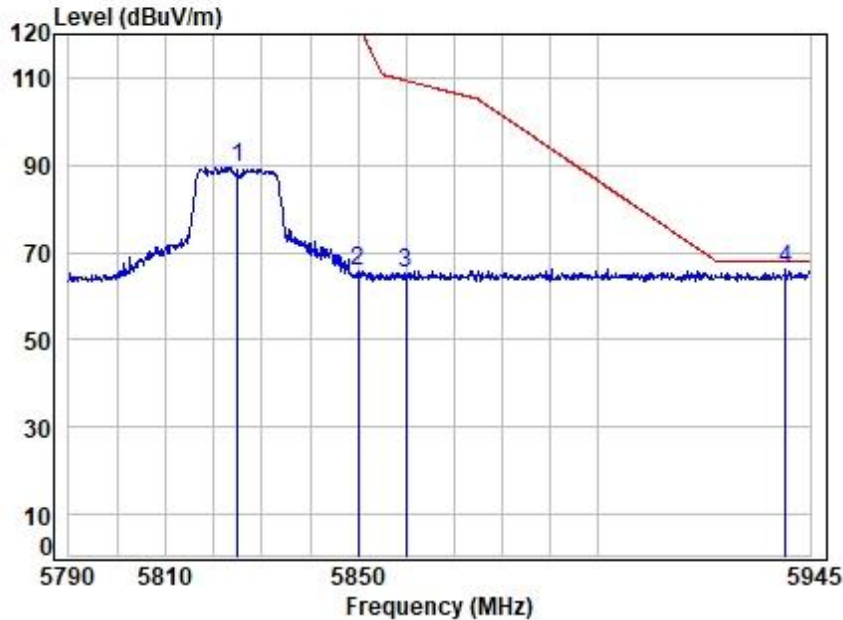
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 177 of 354

Test Mode: 17; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5825 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5825.000	7.85	32.47	32.17	81.36	89.51	-----	peak
2	5850.000	7.82	32.46	32.16	57.67	65.79	122.20	-56.41 peak
3	5860.000	7.81	32.45	32.15	56.93	65.04	109.40	-44.36 peak
4	5939.819	7.71	32.42	32.12	57.97	65.98	68.20	-2.22 peak



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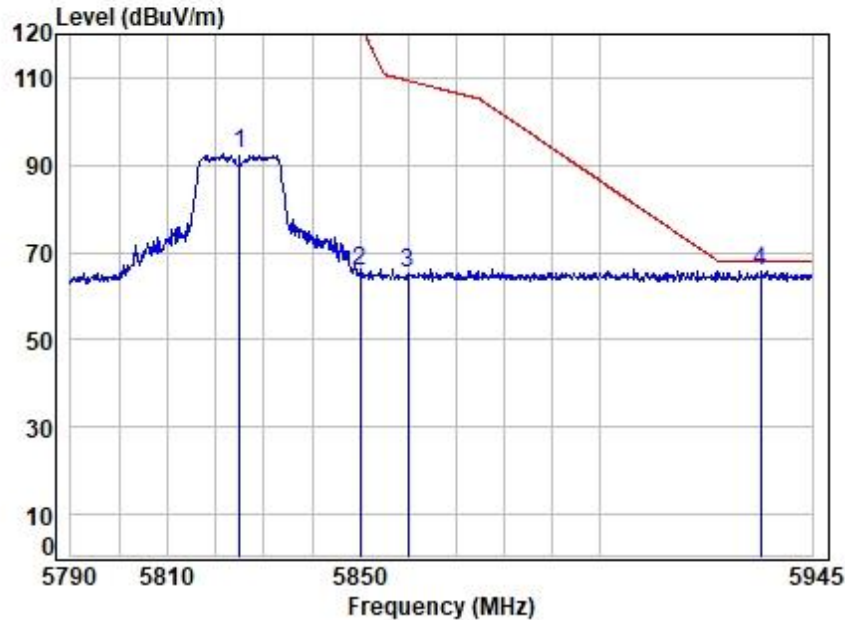
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 178 of 354

Test Mode: 17; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5825 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5825.000	7.85	32.47	32.17	84.39	92.54	-----	----- peak
2	5850.000	7.82	32.46	32.16	57.41	65.53	122.20	-56.67 peak
3	5860.000	7.81	32.45	32.15	57.30	65.41	109.40	-43.99 peak
4	5934.173	7.72	32.43	32.13	57.72	65.74	68.20	-2.46 peak



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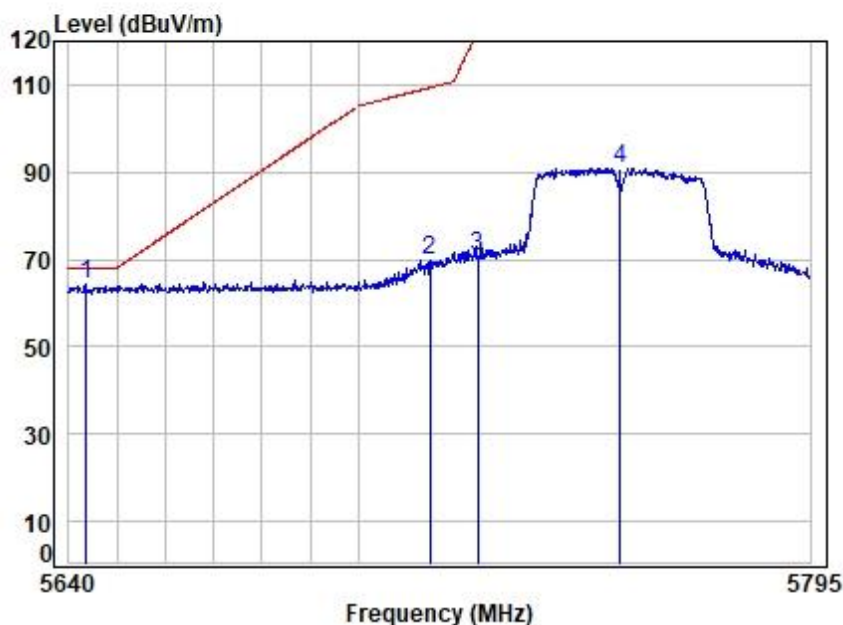
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 179 of 354

Test Mode: 17; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5755 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5643.518	8.08	32.54	32.24	55.73	64.11	68.20	-4.09	peak
2	5715.000	7.99	32.51	32.21	61.41	69.70	109.40	-39.70	peak
3	5725.000	7.98	32.51	32.21	62.50	70.78	122.20	-51.42	peak
4	5755.000	7.94	32.50	32.20	82.73	90.97	-----	-----	peak



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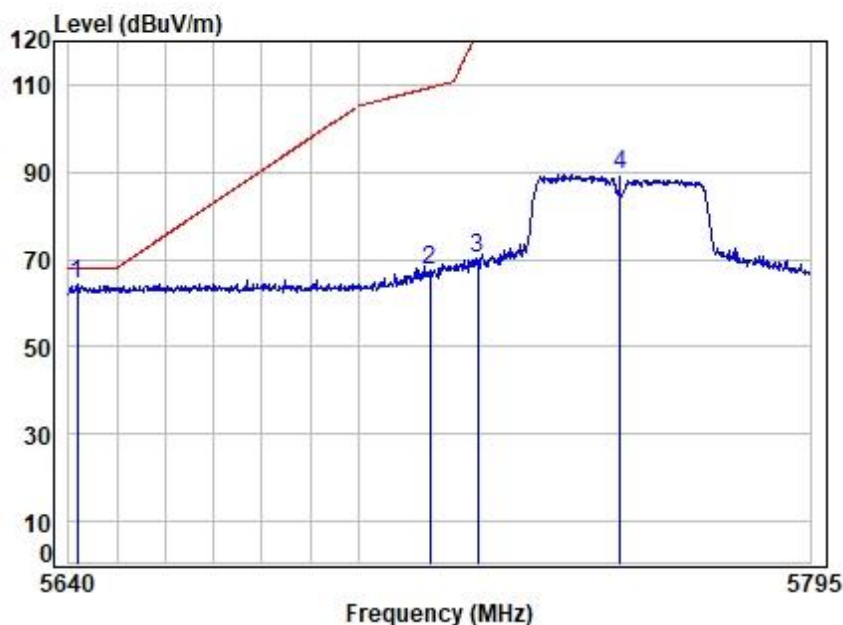
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 180 of 354

Test Mode: 17; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5755 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5641.835	8.09	32.54	32.24	55.79	64.18	68.20	-4.02 peak
2	5715.000	7.99	32.51	32.21	59.21	67.50	109.40	-41.90 peak
3	5725.000	7.98	32.51	32.21	62.03	70.31	122.20	-51.89 peak
4	5755.000	7.94	32.50	32.20	81.27	89.51	-----	----- peak



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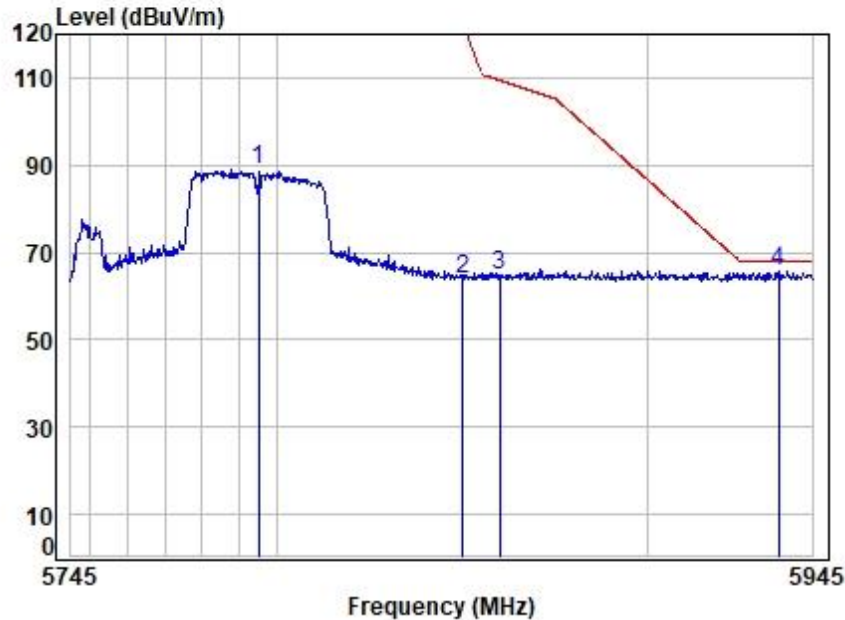
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 181 of 354

Test Mode: 17; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5795 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	7.89	32.48	32.18	80.61	88.80	-----	-----	peak
2	5850.000	7.82	32.46	32.16	55.98	64.10	122.20	-58.10	peak
3	5860.000	7.81	32.45	32.15	56.79	64.90	109.40	-44.50	peak
4	5935.852	7.72	32.42	32.12	57.90	65.92	68.20	-2.28	peak



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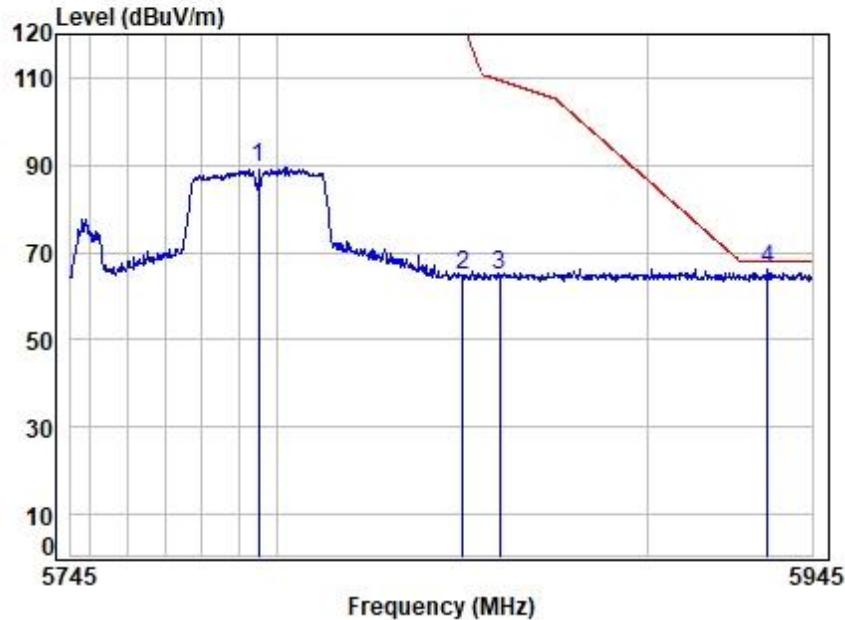
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 182 of 354

Test Mode: 17; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5795 Band edge
: 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	7.89	32.48	32.18	81.21	89.40	-----	-----	peak
2	5850.000	7.82	32.46	32.16	56.61	64.73	122.20	-57.47	peak
3	5860.000	7.81	32.45	32.15	56.80	64.91	109.40	-44.49	peak
4	5932.806	7.72	32.43	32.13	57.94	65.96	68.20	-2.24	peak



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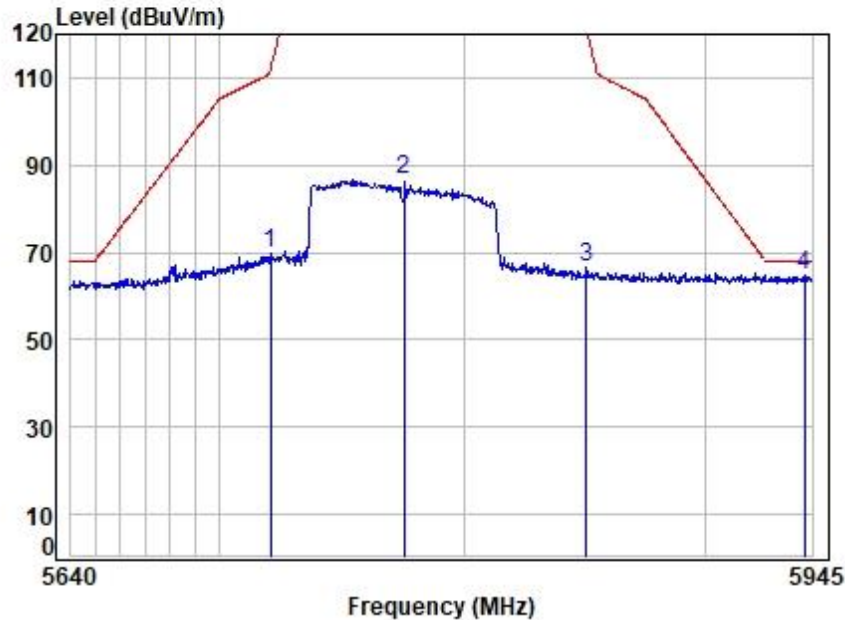
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 183 of 354

Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel: middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5775 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5720.773	7.99	32.51	32.21	61.42	69.71	112.56	-42.85 peak
2	5775.000	7.92	32.49	32.19	78.32	86.54	-----	----- peak
3	5850.575	7.82	32.46	32.16	58.69	66.81	120.89	-54.08 peak
4	5941.870	7.71	32.42	32.12	56.93	64.94	68.20	-3.26 peak



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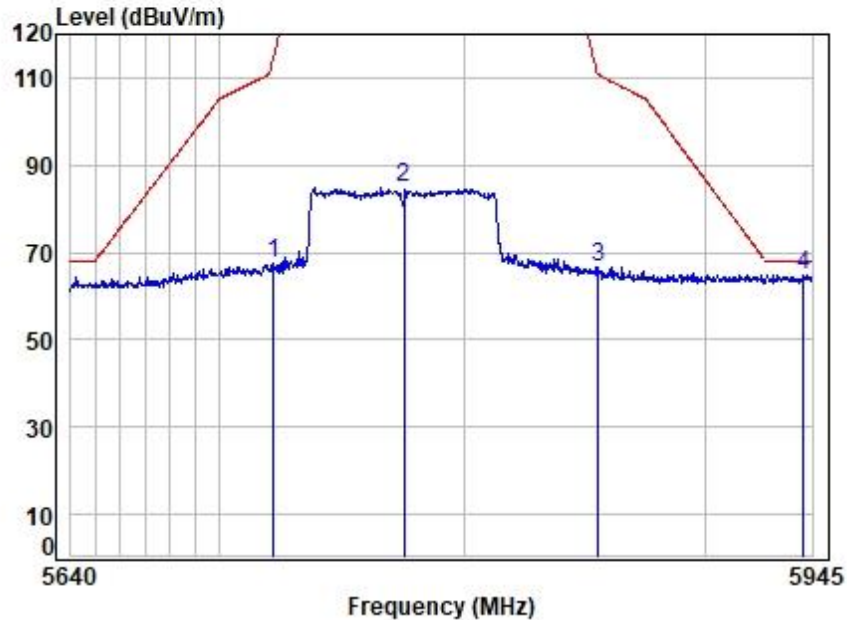
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 184 of 354

Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel: middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5775 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5721.677	7.98	32.51	32.21	59.04	67.32	114.62	-47.30 peak
2	5775.000	7.92	32.49	32.19	76.61	84.83	-----	----- peak
3	5855.199	7.82	32.46	32.16	58.38	66.50	110.74	-44.24 peak
4	5941.244	7.71	32.42	32.12	56.81	64.82	68.20	-3.38 peak



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 185 of 354

7.10 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart E 15.407 (g)

Test Method: ANSI C63.10 (2013) Section 6.8

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 24.7 °C

Humidity: 41.6 % RH

Atmospheric Pressure: 1020 mbar

7.10.2 Test Mode Description

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

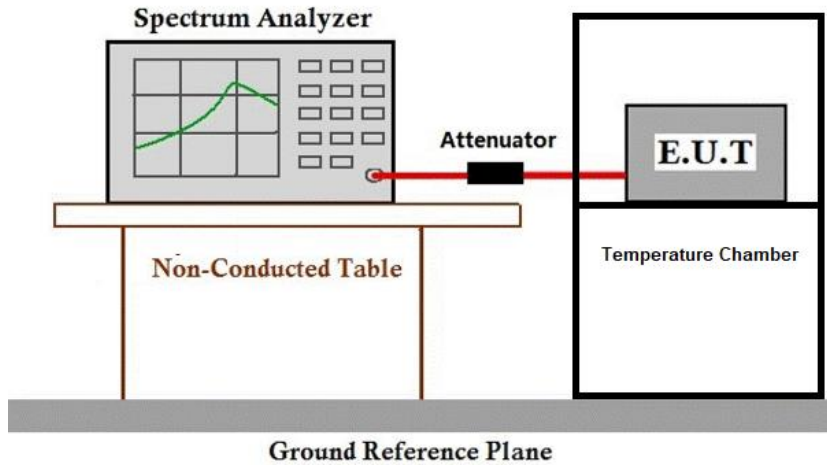


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	recorded in the report.
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7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 187 of 354

7.11 Non-occupancy period

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

Limit:

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

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 188 of 354

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 24.7 °C

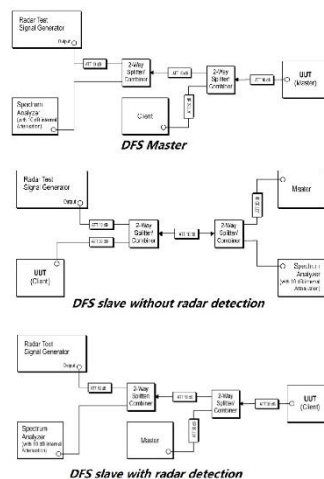
Humidity: 41.6 % RH

Atmospheric Pressure: 1020 mbar

7.11.2 Test Mode Description

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

7.11.3 Test Setup Diagram



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 189 of 354

7.11.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 190 of 354

7.12 Channel Move Time

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

Limit:

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

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 191 of 354

7.12.1 E.U.T. Operation

Operating Environment:

Temperature: 24.7 °C

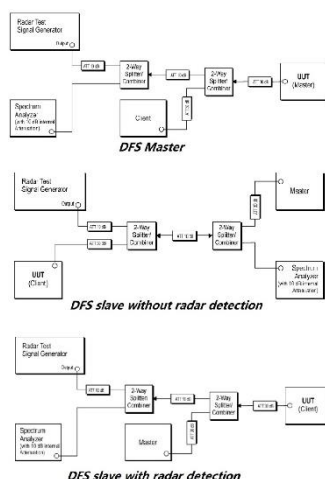
Humidity: 41.6 % RH

Atmospheric Pressure: 1020 mbar

7.12.2 Test Mode Description

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

7.12.3 Test Setup Diagram



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 192 of 354

7.12.4 Measurement Procedure and Data

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

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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 193 of 354

7.13 Channel Closing Transmission Time

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

Limit:

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

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.



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Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 194 of 354

7.13.1 E.U.T. Operation

Operating Environment:

Temperature: 24.7 °C

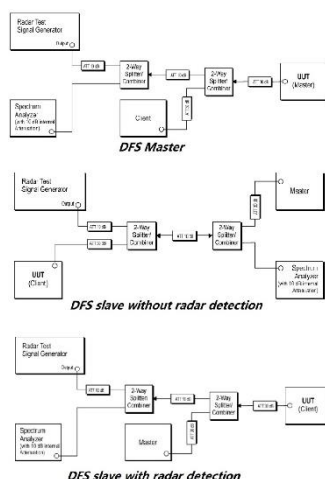
Humidity: 41.6 % RH

Atmospheric Pressure: 1020 mbar

7.13.2 Test Mode Description

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

7.13.3 Test Setup Diagram



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 195 of 354

7.13.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 196 of 354

7.14 Radiated Emissions (Below 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)
 Test Method: KDB 789033 D02 II G
 Measurement Distance: 3m

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
960-1000	500	3

7.14.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C Humidity: 51.6 % RH Atmospheric Pressure: 1020 mbar

7.14.2 Test Mode Description

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



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 197 of 354

Pre-scan	11	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	12	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	14	Charge + TX mode (U-NII-1)_Keep the EUT in charging and 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	15	Charge + TX mode (U-NII-2A)_Keep the EUT in charging and 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	16	Charge + TX mode (U-NII-2C)_Keep the EUT in charging and 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	17	Charge + TX mode (U-NII-3)_Keep the EUT in charging and 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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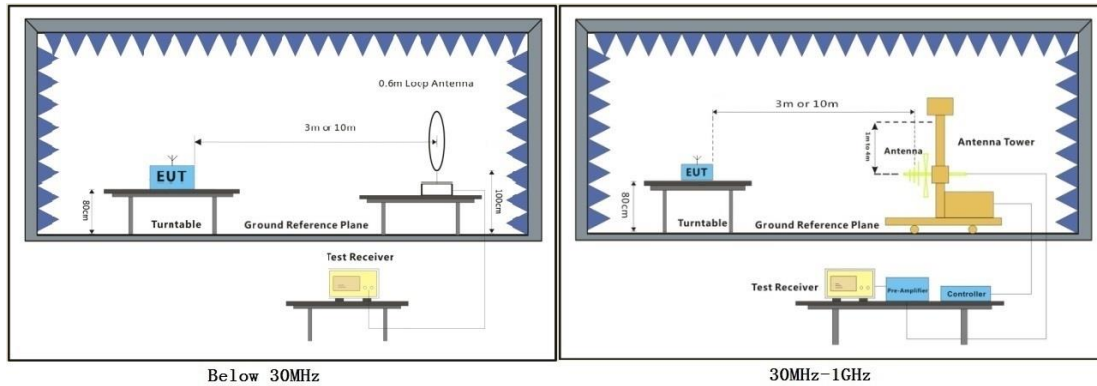
SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 198 of 354

	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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
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7.14.3 Test Setup Diagram



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 199 of 354

7.14.4 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 meter semi-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 (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.
- 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 quasi-peak 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. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
3. Scan from 9kHz to 30MHz, the disturbance below 30MHz 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. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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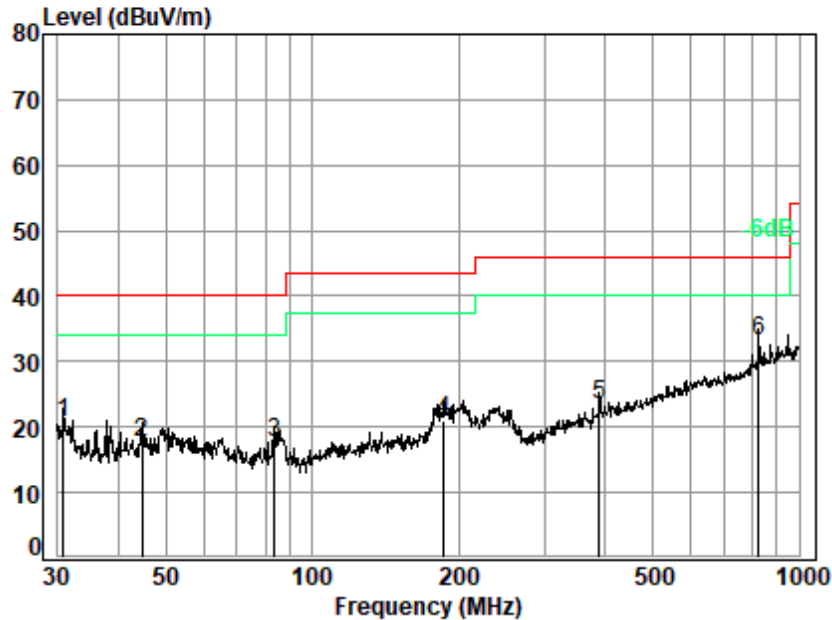
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 200 of 354

Test Mode: 14; Polarity: Horizontal:802.11a; Bandwidth:20MHz; Channel: Middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 14

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.853	0.20	15.71	25.90	30.68	20.69	40.00	-19.31	QP
2	44.743	0.23	17.29	25.87	26.10	17.75	40.00	-22.25	QP
3	83.816	0.56	14.03	25.82	28.95	17.72	40.00	-22.28	QP
4	186.441	0.68	15.74	25.40	29.90	20.92	43.50	-22.58	QP
5	389.355	1.65	20.56	25.74	26.84	23.31	46.00	-22.69	QP
6	827.493	2.56	27.71	26.54	29.39	33.12	46.00	-12.88	QP



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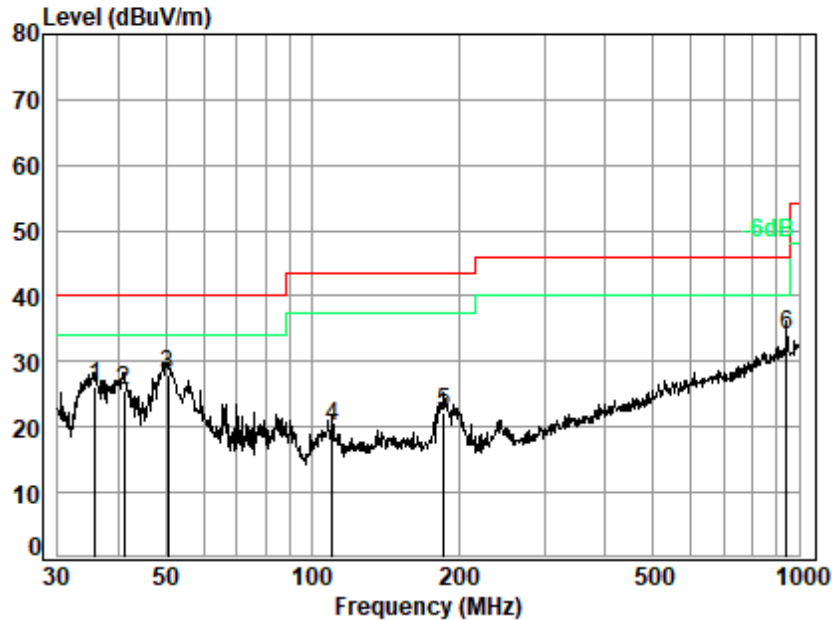
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 201 of 354

Test Mode: 14; Polarity: Vertical:802.11a; Bandwidth:20MHz; Channel: Middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 14

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	35.749	0.19	15.82	25.89	36.14	26.26	40.00	-13.74	QP
2	40.988	0.21	16.95	25.88	34.16	25.44	40.00	-14.56	QP
3	50.409	0.21	17.36	25.86	36.24	27.95	40.00	-12.05	QP
4	110.182	0.93	15.22	25.74	29.58	19.99	43.50	-23.51	QP
5	186.441	0.68	15.74	25.40	31.32	22.34	43.50	-21.16	QP
6	942.131	2.21	29.32	26.31	28.84	34.06	46.00	-11.94	QP



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 202 of 354

8 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR2211000472AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for FYCR2211000472AT



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10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1							
Mode	Tx Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	1.396	1.494	93.44	0.29	0.03
		5200	1.396	1.495	93.38	0.30	0.03
		5240	1.396	1.495	93.38	0.30	0.03
		5260	1.397	1.495	93.44	0.29	0.03
		5300	1.396	1.495	93.38	0.30	0.03
		5320	1.397	1.495	93.44	0.29	0.03
		5500	1.396	1.495	93.38	0.30	0.03
		5580	1.397	1.495	93.44	0.29	0.03
		5700	1.396	1.495	93.38	0.30	0.03
		5745	1.396	1.495	93.38	0.30	0.03
		5785	1.397	1.495	93.44	0.29	0.03
		5825	1.396	1.495	93.38	0.30	0.03
802.11n (HT20)	SISO	5180	1.308	1.407	92.96	0.32	0.03
		5200	1.309	1.407	93.03	0.31	0.03
		5240	1.308	1.407	92.96	0.32	0.06
		5260	1.309	1.407	93.03	0.31	0.03
		5300	1.309	1.407	93.03	0.31	0.00
		5320	1.308	1.407	92.96	0.32	0.07
		5500	1.309	1.407	93.03	0.31	0.00
		5580	1.309	1.425	91.86	0.37	1.19
		5700	1.308	1.407	92.96	0.32	0.03
		5745	1.309	1.408	92.97	0.32	0.03
		5785	1.309	1.407	93.03	0.31	0.03
		5825	1.309	1.407	93.03	0.31	0.03
802.11n (HT40)	SISO	5190	0.648	0.747	86.75	0.62	0.04
		5230	0.648	0.747	86.75	0.62	0.04
		5270	0.649	0.747	86.88	0.61	0.04



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 204 of 354

		5310	0.649	0.747	86.88	0.61	0.04
		5510	0.649	0.747	86.88	0.61	0.07
		5550	0.649	0.748	86.76	0.62	0.07
		5670	0.648	0.747	86.75	0.62	0.04
		5755	0.649	0.748	86.76	0.62	0.04
		5795	0.649	0.747	86.88	0.61	0.04
802.11ac (VHT20)	SISO	5180	1.316	1.415	93.00	0.32	0.03
		5200	1.316	1.415	93.00	0.32	0.03
		5240	1.316	1.415	93.00	0.32	0.03
		5260	1.317	1.415	93.07	0.31	0.00
		5300	1.316	1.415	93.00	0.32	0.03
		5320	1.316	1.415	93.00	0.32	0.03
		5500	1.316	1.415	93.00	0.32	0.06
		5580	1.316	1.415	93.00	0.32	0.04
		5700	1.316	1.415	93.00	0.32	0.03
		5745	1.317	1.415	93.07	0.31	0.03
		5785	1.317	1.416	93.01	0.31	0.03
		5825	1.317	1.415	93.07	0.31	0.03
802.11ac (VHT40)	SISO	5190	0.656	0.755	86.89	0.61	0.04
		5230	0.657	0.755	87.02	0.60	0.04
		5270	0.656	0.755	86.89	0.61	0.04
		5310	0.657	0.755	87.02	0.60	0.04
		5510	0.656	0.755	86.89	0.61	0.04
		5550	0.657	0.755	87.02	0.60	0.04
		5670	0.656	0.755	86.89	0.61	0.04
		5755	0.657	0.755	87.02	0.60	0.04
		5795	0.657	0.755	87.02	0.60	0.04
802.11ac (VHT80)	SISO	5210	0.325	0.422	77.01	1.13	0.03
		5290	0.324	0.422	76.78	1.15	0.03
		5530	0.324	0.422	76.78	1.15	0.03
		5610	0.325	0.422	77.01	1.13	0.03
		5775	0.324	0.422	76.78	1.15	0.06



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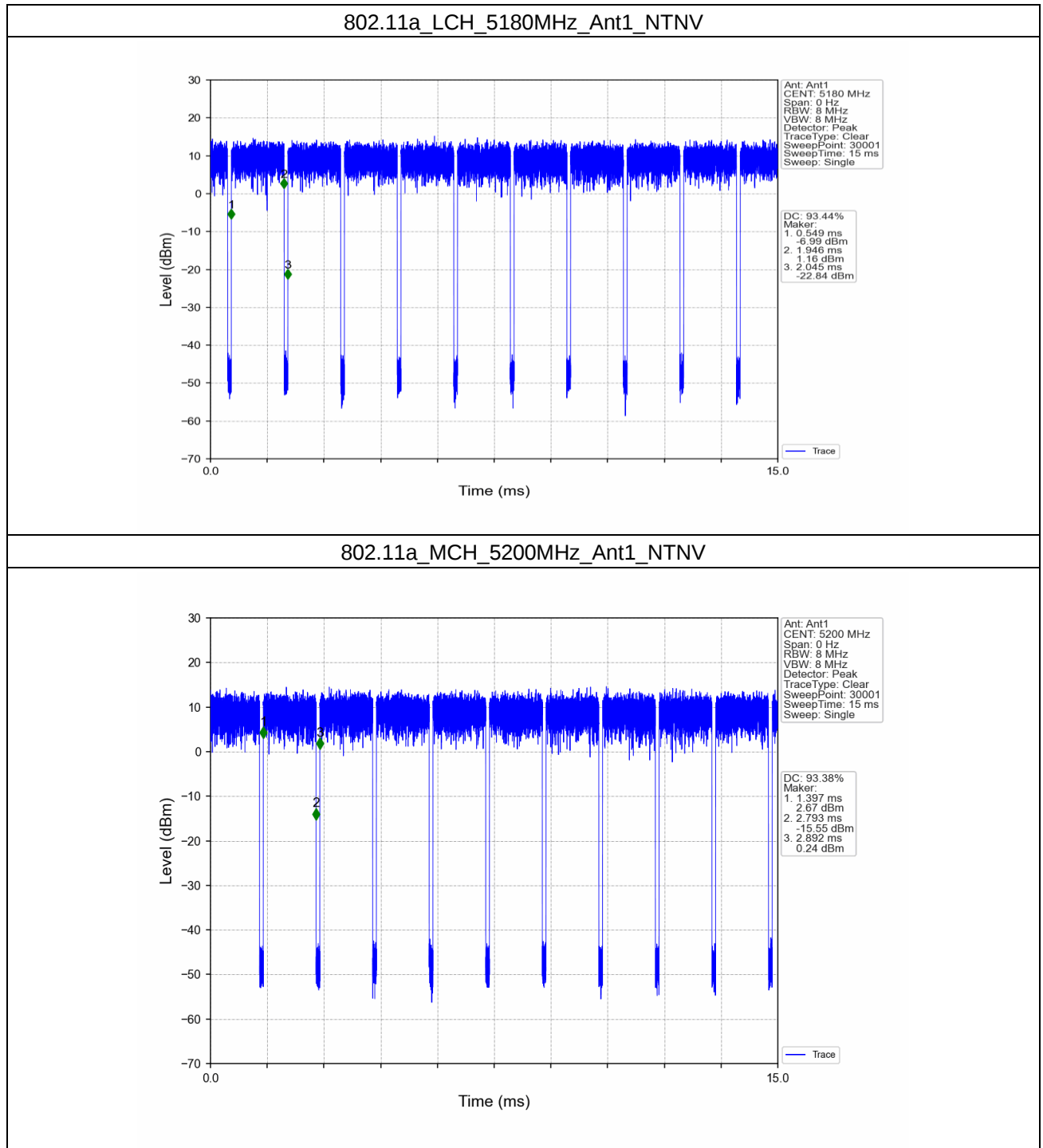
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 205 of 354

1.1.2 Test Graph



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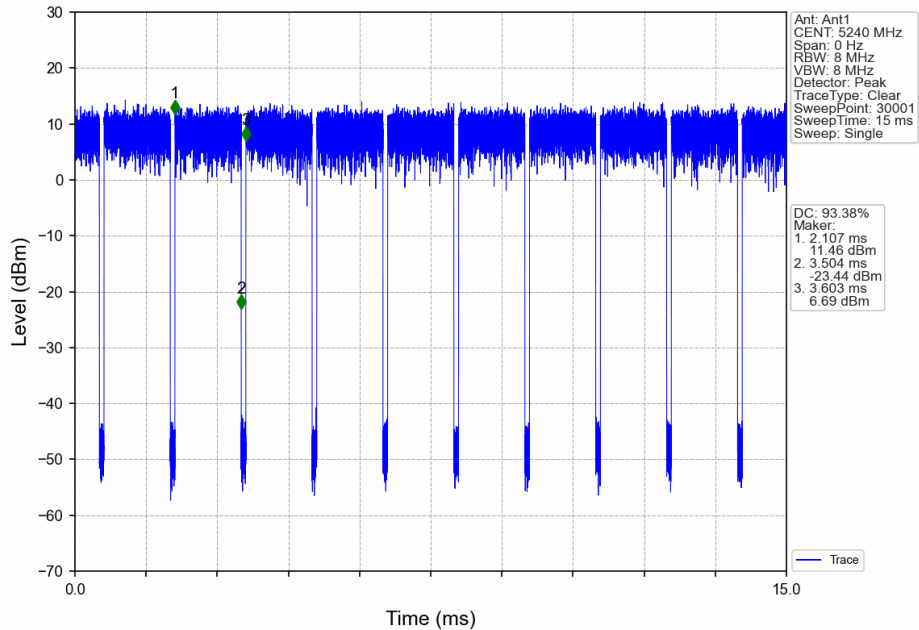
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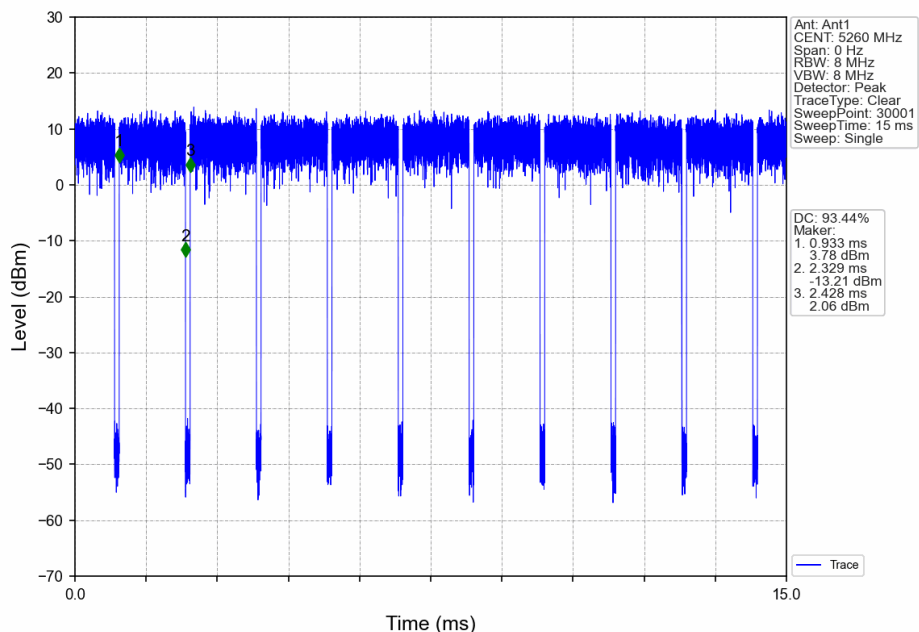
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Page: 206 of 354

802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_LCH_5260MHz_Ant1_NTNV



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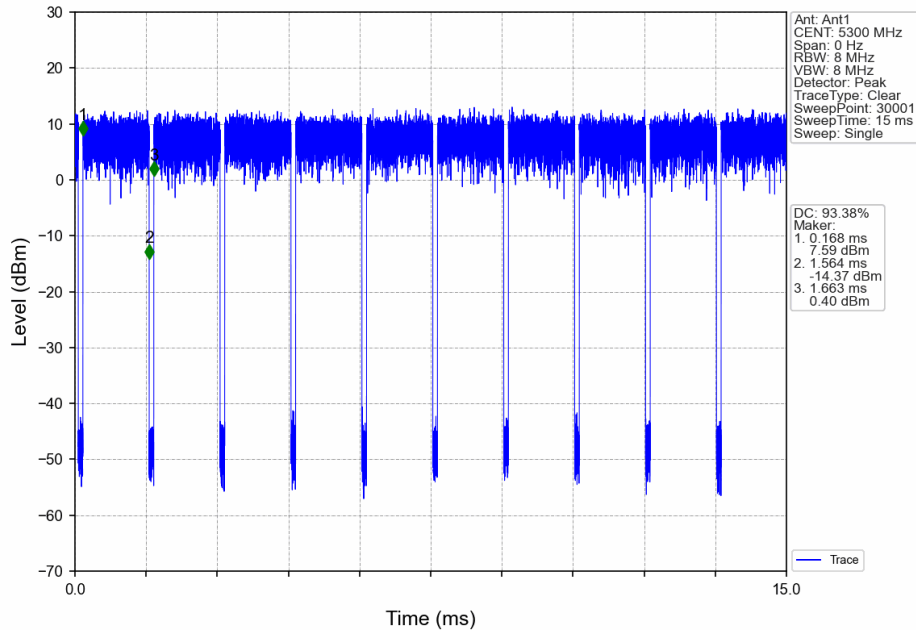
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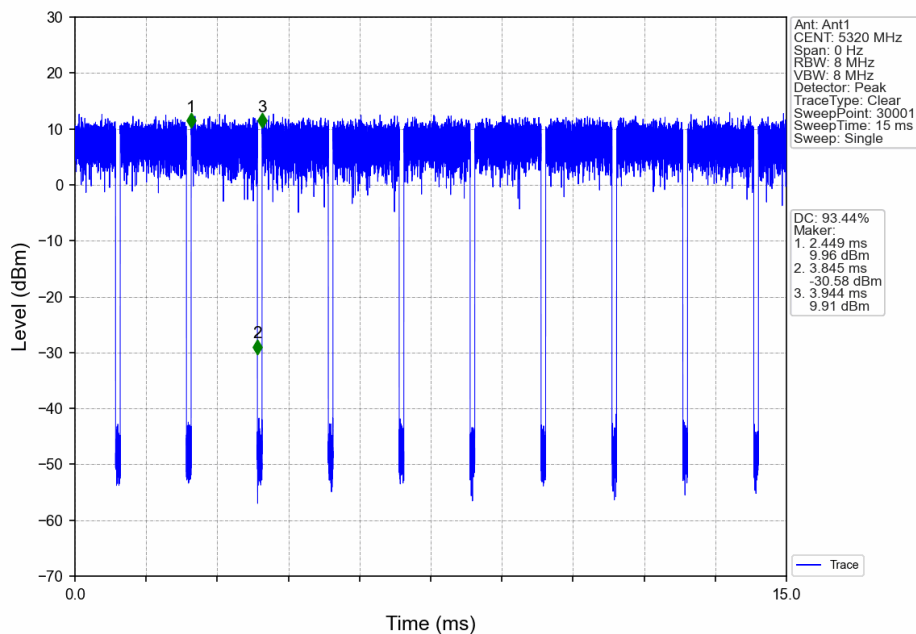
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Page: 207 of 354

802.11a_MCH_5300MHz_Ant1_NTNV



802.11a_HCH_5320MHz_Ant1_NTNV



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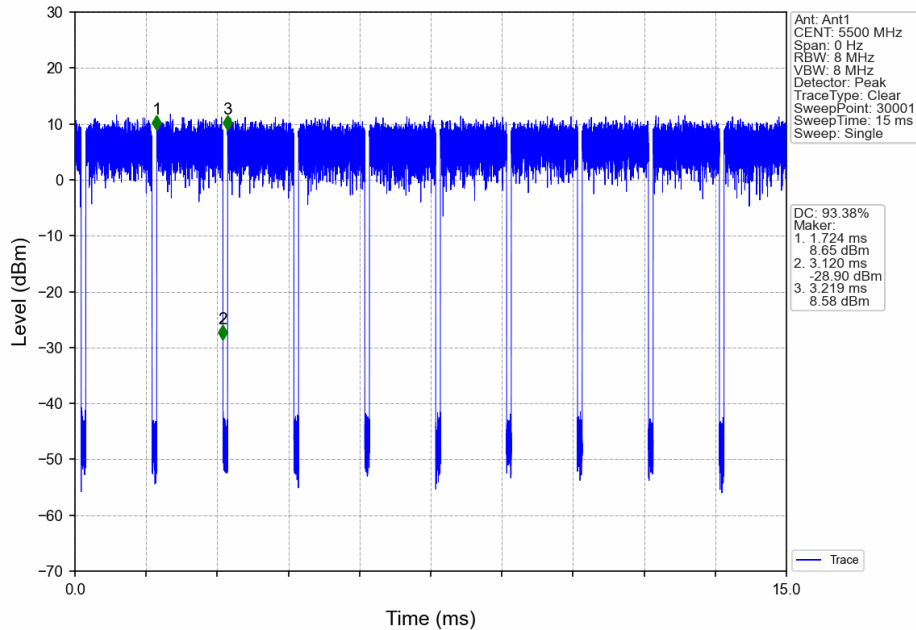
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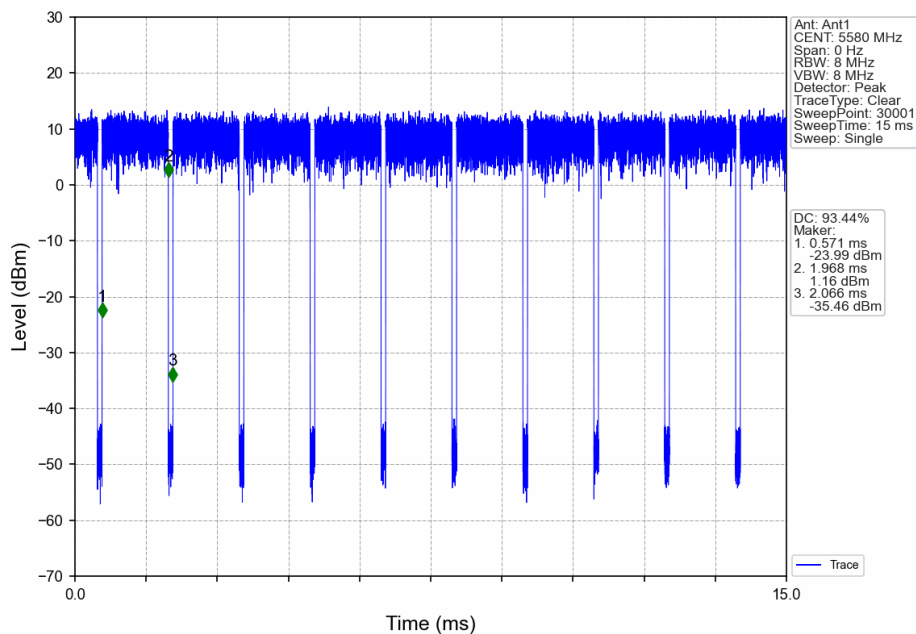
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Page: 208 of 354

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802.11a_MCH_5580MHz_Ant1_NTNV



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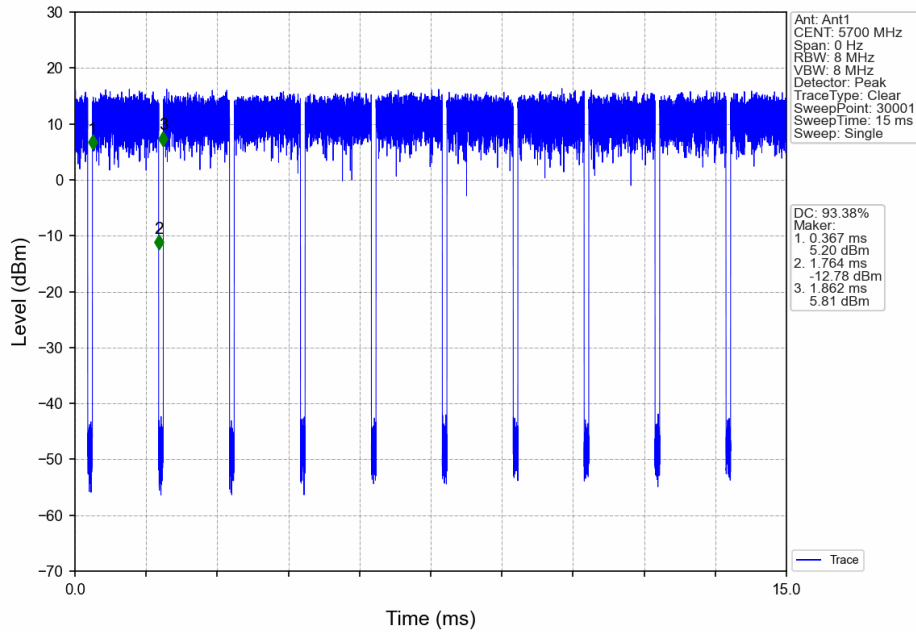
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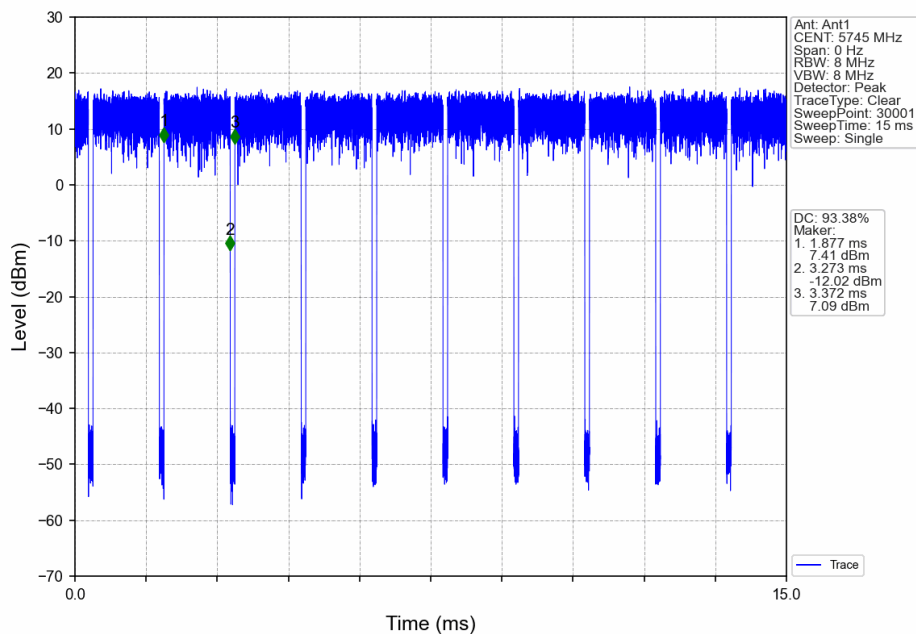
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802.11a_LCH_5745MHz_Ant1_NTNV



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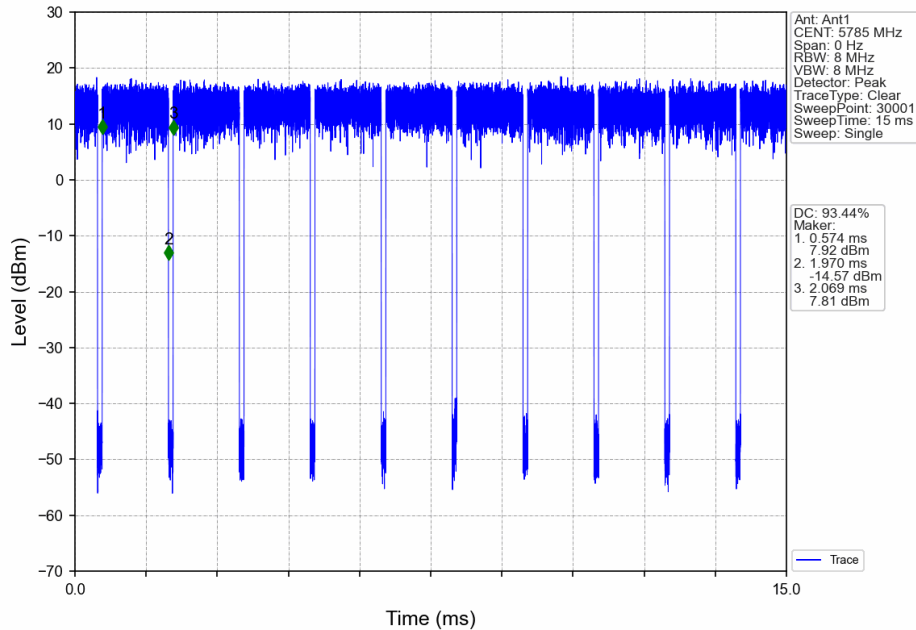
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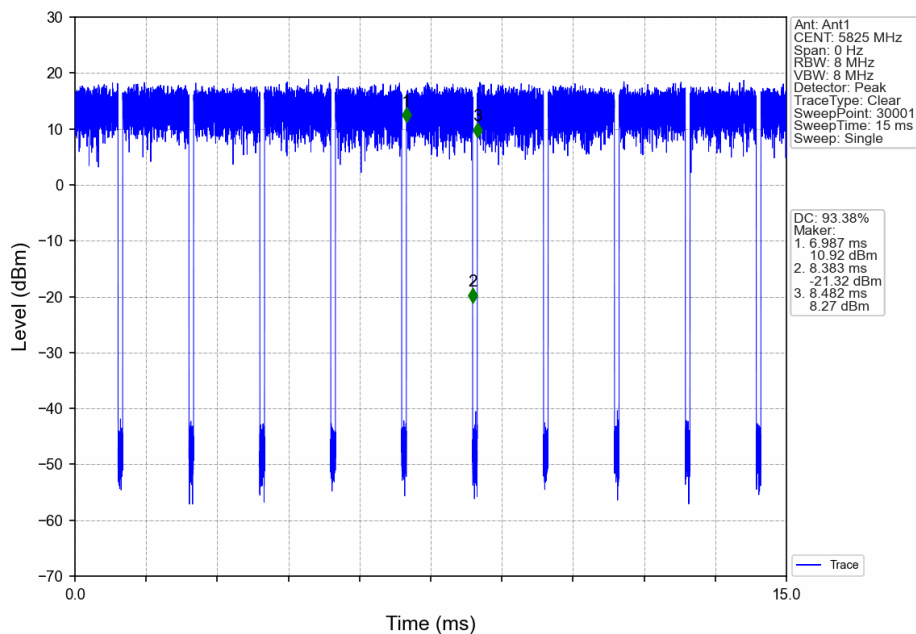
Report No.: FYCR221100047205

Page: 210 of 354

802.11a_MCH_5785MHz_Ant1_NTNV



802.11a_HCH_5825MHz_Ant1_NTNV



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