

Report No.: SUCR240500014801
Rev.: 01
Page: 1 of 144

Appendix B.20

LTE Band 42(3450-3550)



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t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

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Report No.: SUCR240500014801
 Rev.: 01
 Page: 2 of 144

1. Effective (Isotropic) Radiated Power Output Data

1.1 B42a_5MHz_EIRP

1.1.1 Test Result

Band: 42a / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	3452.5	1	0	21.5	2.35	23.85	<=30	Pass
			13	21.39	2.35	23.74	<=30	Pass
			24	21.28	2.35	23.63	<=30	Pass
		12	0	20.41	2.35	22.76	<=30	Pass
			6	20.4	2.35	22.75	<=30	Pass
			13	20.24	2.35	22.59	<=30	Pass
		25	0	20.21	2.35	22.56	<=30	Pass
	3500	1	0	21.62	2.35	23.97	<=30	Pass
			13	21.6	2.35	23.95	<=30	Pass
			24	21.58	2.35	23.93	<=30	Pass
		12	0	20.49	2.35	22.84	<=30	Pass
			6	20.55	2.35	22.9	<=30	Pass
			13	20.54	2.35	22.89	<=30	Pass
		25	0	20.57	2.35	22.92	<=30	Pass
	3547.5	1	0	21.72	2.35	24.07	<=30	Pass
			13	21.66	2.35	24.01	<=30	Pass
			24	21.54	2.35	23.89	<=30	Pass
		12	0	20.67	2.35	23.02	<=30	Pass
			6	20.82	2.35	23.17	<=30	Pass
			13	20.7	2.35	23.05	<=30	Pass
		25	0	20.66	2.35	23.01	<=30	Pass
16QAM	3452.5	1	0	20.88	2.35	23.23	<=30	Pass
			13	20.57	2.35	22.92	<=30	Pass
			24	20.15	2.35	22.5	<=30	Pass
		12	0	19.34	2.35	21.69	<=30	Pass
			6	19.34	2.35	21.69	<=30	Pass
			13	19.23	2.35	21.58	<=30	Pass
		25	0	19.4	2.35	21.75	<=30	Pass
	3500	1	0	20.5	2.35	22.85	<=30	Pass
			13	20.38	2.35	22.73	<=30	Pass
			24	20.63	2.35	22.98	<=30	Pass
		12	0	19.72	2.35	22.07	<=30	Pass
			6	19.61	2.35	21.96	<=30	Pass
			13	19.45	2.35	21.8	<=30	Pass
		25	0	19.53	2.35	21.88	<=30	Pass
	3547.5	1	0	20.78	2.35	23.13	<=30	Pass
			13	20.62	2.35	22.97	<=30	Pass
			24	20.51	2.35	22.86	<=30	Pass
		12	0	19.76	2.35	22.11	<=30	Pass
			6	19.85	2.35	22.2	<=30	Pass



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Report No.: SUCR240500014801

Rev.: 01

Page: 3 of 144

		13	19.82	2.35	22.17	<=30	Pass
	25	0	19.79	2.35	22.14	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.2 B42a_10MHz_EIRP

1.2.1 Test Result

Band: 42a / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	3455	1	0	21.34	2.35	23.69	<=30	Pass
			25	21.35	2.35	23.7	<=30	Pass
			49	21.54	2.35	23.89	<=30	Pass
		25	0	20.46	2.35	22.81	<=30	Pass
			13	20.39	2.35	22.74	<=30	Pass
			25	20.26	2.35	22.61	<=30	Pass
		50	0	20.63	2.35	22.98	<=30	Pass
	3500	1	0	21.64	2.35	23.99	<=30	Pass
			25	21.51	2.35	23.86	<=30	Pass
			49	21.55	2.35	23.9	<=30	Pass
		25	0	20.77	2.35	23.12	<=30	Pass
			13	20.65	2.35	23	<=30	Pass
			25	20.74	2.35	23.09	<=30	Pass
		50	0	20.57	2.35	22.92	<=30	Pass
	3545	1	0	21.66	2.35	24.01	<=30	Pass
			25	21.55	2.35	23.9	<=30	Pass
			49	21.77	2.35	24.12	<=30	Pass
		25	0	20.68	2.35	23.03	<=30	Pass
			13	20.75	2.35	23.1	<=30	Pass
			25	20.75	2.35	23.1	<=30	Pass
		50	0	20.69	2.35	23.04	<=30	Pass
16QAM	3455	1	0	20.4	2.35	22.75	<=30	Pass
			25	20.46	2.35	22.81	<=30	Pass
			49	20.36	2.35	22.71	<=30	Pass
		25	0	19.4	2.35	21.75	<=30	Pass
			13	19.52	2.35	21.87	<=30	Pass
			25	19.34	2.35	21.69	<=30	Pass
		50	0	19.35	2.35	21.7	<=30	Pass
	3500	1	0	20.25	2.35	22.6	<=30	Pass
			25	20.3	2.35	22.65	<=30	Pass
			49	20.55	2.35	22.9	<=30	Pass
		25	0	19.61	2.35	21.96	<=30	Pass
			13	19.6	2.35	21.95	<=30	Pass
			25	19.54	2.35	21.89	<=30	Pass
		50	0	19.61	2.35	21.96	<=30	Pass
	3545	1	0	20.96	2.35	23.31	<=30	Pass
			25	20.6	2.35	22.95	<=30	Pass



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Report No.: SUCR240500014801

Rev.: 01

Page: 4 of 144

		49	20.51	2.35	22.86	<=30	Pass
		0	19.76	2.35	22.11	<=30	Pass
	25	13	19.57	2.35	21.92	<=30	Pass
		25	19.74	2.35	22.09	<=30	Pass
	50	0	19.68	2.35	22.03	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.3 B42a_15MHz_EIRP

1.3.1 Test Result

Band: 42a / Bandwidth: 15MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	3457.5	1	0	21.52	2.35	23.87	<=30	Pass
			38	21.39	2.35	23.74	<=30	Pass
			74	21.52	2.35	23.87	<=30	Pass
		36	0	20.38	2.35	22.73	<=30	Pass
			18	20.56	2.35	22.91	<=30	Pass
			39	20.46	2.35	22.81	<=30	Pass
		75	0	20.57	2.35	22.92	<=30	Pass
	3500	1	0	21.36	2.35	23.71	<=30	Pass
			38	21.64	2.35	23.99	<=30	Pass
			74	21.65	2.35	24	<=30	Pass
		36	0	20.57	2.35	22.92	<=30	Pass
			18	20.46	2.35	22.81	<=30	Pass
			39	20.64	2.35	22.99	<=30	Pass
		75	0	20.66	2.35	23.01	<=30	Pass
	3542.5	1	0	21.58	2.35	23.93	<=30	Pass
			38	21.7	2.35	24.05	<=30	Pass
			74	21.62	2.35	23.97	<=30	Pass
		36	0	20.74	2.35	23.09	<=30	Pass
			18	20.73	2.35	23.08	<=30	Pass
			39	20.85	2.35	23.2	<=30	Pass
		75	0	20.69	2.35	23.04	<=30	Pass
16QAM	3457.5	1	0	20.51	2.35	22.86	<=30	Pass
			38	20.27	2.35	22.62	<=30	Pass
			74	20.42	2.35	22.77	<=30	Pass
		36	0	19.43	2.35	21.78	<=30	Pass
			18	19.36	2.35	21.71	<=30	Pass
			39	19.61	2.35	21.96	<=30	Pass
		75	0	19.42	2.35	21.77	<=30	Pass
	3500	1	0	20.56	2.35	22.91	<=30	Pass
			38	20.55	2.35	22.9	<=30	Pass
			74	20.55	2.35	22.9	<=30	Pass
		36	0	19.56	2.35	21.91	<=30	Pass
			18	19.75	2.35	22.1	<=30	Pass
			39	19.63	2.35	21.98	<=30	Pass



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Report No.: SUCR240500014801

Rev.: 01

Page: 5 of 144

		75	0	19.56	2.35	21.91	<=30	Pass
			0	20.28	2.35	22.63	<=30	Pass
		1	38	20.66	2.35	23.01	<=30	Pass
			74	20.88	2.35	23.23	<=30	Pass
			0	19.58	2.35	21.93	<=30	Pass
		36	18	19.57	2.35	21.92	<=30	Pass
			39	19.6	2.35	21.95	<=30	Pass
		75	0	19.79	2.35	22.14	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.4 B42a_20MHz_EIRP

1.4.1 Test Result

Band: 42a / Bandwidth: 20MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	3460	1	0	21.41	2.35	23.76	<=30	Pass
			50	21.43	2.35	23.78	<=30	Pass
			99	21.26	2.35	23.61	<=30	Pass
		50	0	20.5	2.35	22.85	<=30	Pass
			25	20.44	2.35	22.79	<=30	Pass
			50	20.41	2.35	22.76	<=30	Pass
		100	0	20.41	2.35	22.76	<=30	Pass
	3500	1	0	21.73	2.35	24.08	<=30	Pass
			50	21.47	2.35	23.82	<=30	Pass
			99	21.76	2.35	24.11	<=30	Pass
		50	0	20.57	2.35	22.92	<=30	Pass
			25	20.6	2.35	22.95	<=30	Pass
			50	20.52	2.35	22.87	<=30	Pass
		100	0	20.69	2.35	23.04	<=30	Pass
	3540	1	0	21.44	2.35	23.79	<=30	Pass
			50	21.54	2.35	23.89	<=30	Pass
			99	21.71	2.35	24.06	<=30	Pass
		50	0	20.63	2.35	22.98	<=30	Pass
			25	20.55	2.35	22.9	<=30	Pass
			50	20.81	2.35	23.16	<=30	Pass
		100	0	20.81	2.35	23.16	<=30	Pass
16QAM	3460	1	0	20.33	2.35	22.68	<=30	Pass
			50	20.75	2.35	23.1	<=30	Pass
			99	20.77	2.35	23.12	<=30	Pass
		50	0	19.43	2.35	21.78	<=30	Pass
			25	19.49	2.35	21.84	<=30	Pass
			50	19.4	2.35	21.75	<=30	Pass
		100	0	19.39	2.35	21.74	<=30	Pass
	3500	1	0	20.27	2.35	22.62	<=30	Pass
			50	20.25	2.35	22.6	<=30	Pass
			99	20.92	2.35	23.27	<=30	Pass



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Report No.: SUCR240500014801

Rev.: 01

Page: 6 of 144

	50	0	19.7	2.35	22.05	<=30	Pass
		25	19.74	2.35	22.09	<=30	Pass
		50	19.56	2.35	21.91	<=30	Pass
	100	0	19.52	2.35	21.87	<=30	Pass
	1	0	20.33	2.35	22.68	<=30	Pass
		50	20.79	2.35	23.14	<=30	Pass
		99	20.5	2.35	22.85	<=30	Pass
	50	0	19.55	2.35	21.9	<=30	Pass
		25	19.87	2.35	22.22	<=30	Pass
		50	19.8	2.35	22.15	<=30	Pass
	100	0	19.69	2.35	22.04	<=30	Pass
	Note1: EIRP=Conducted Power+Antenna Gain						



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Report No.: SUCR240500014801

Rev.: 01

Page: 7 of 144

2. Frequency Stability

2.1 B42a_20MHz

2.1.1 Test Result

Band: 42a / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	3460	100	0	20	3.135	0.589	0.0002	-2.5 to 2.5	Pass
					3.7	-2.943	-0.0009	-2.5 to 2.5	Pass
					4.4	-2.784	-0.0008	-2.5 to 2.5	Pass
				-30	3.7	0.307	0.0001	-2.5 to 2.5	Pass
				-20	3.7	-2.993	-0.0009	-2.5 to 2.5	Pass
				-10	3.7	1.967	0.0006	-2.5 to 2.5	Pass
				0	3.7	-5.206	-0.0015	-2.5 to 2.5	Pass
				10	3.7	2.689	0.0008	-2.5 to 2.5	Pass
				30	3.7	0.082	0.0000	-2.5 to 2.5	Pass
				40	3.7	-2.197	-0.0006	-2.5 to 2.5	Pass
				50	3.7	-3.945	-0.0011	-2.5 to 2.5	Pass
	3500	100	0	20	3.135	-2.763	-0.0008	-2.5 to 2.5	Pass
					3.7	3.085	0.0009	-2.5 to 2.5	Pass
					4.4	-2.993	-0.0009	-2.5 to 2.5	Pass
				-30	3.7	3.679	0.0011	-2.5 to 2.5	Pass
				-20	3.7	-3.575	-0.0010	-2.5 to 2.5	Pass
				-10	3.7	-2.618	-0.0007	-2.5 to 2.5	Pass
				0	3.7	-1.776	-0.0005	-2.5 to 2.5	Pass
				10	3.7	-0.480	-0.0001	-2.5 to 2.5	Pass
				30	3.7	0.273	0.0001	-2.5 to 2.5	Pass
				40	3.7	-3.607	-0.0010	-2.5 to 2.5	Pass
				50	3.7	1.571	0.0004	-2.5 to 2.5	Pass
	3540	100	0	20	3.135	-1.660	-0.0005	-2.5 to 2.5	Pass
					3.7	-6.213	-0.0018	-2.5 to 2.5	Pass
					4.4	0.100	0.0000	-2.5 to 2.5	Pass
				-30	3.7	-4.137	-0.0012	-2.5 to 2.5	Pass
				-20	3.7	-3.279	-0.0009	-2.5 to 2.5	Pass
				-10	3.7	-0.877	-0.0002	-2.5 to 2.5	Pass
				0	3.7	0.209	0.0001	-2.5 to 2.5	Pass
				10	3.7	1.210	0.0003	-2.5 to 2.5	Pass
				30	3.7	0.687	0.0002	-2.5 to 2.5	Pass
				40	3.7	1.627	0.0005	-2.5 to 2.5	Pass
				50	3.7	1.937	0.0005	-2.5 to 2.5	Pass



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Report No.: SUCR240500014801

Rev.: 01

Page: 8 of 144

3. 99% & 26dB Bandwidth

3.1 Band42a_OBW

3.1.1 Test Result

Band: 42a / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	3452.5	25	0	4.560	/	Pass
		3500	25	0	4.550	/	Pass
		3547.5	25	0	4.571	/	Pass
	16QAM	3452.5	25	0	4.578	/	Pass
		3500	25	0	4.548	/	Pass
		3547.5	25	0	4.568	/	Pass
10	QPSK	3455	50	0	9.031	/	Pass
		3500	50	0	9.042	/	Pass
		3545	50	0	9.068	/	Pass
	16QAM	3455	50	0	9.040	/	Pass
		3500	50	0	9.060	/	Pass
		3545	50	0	9.042	/	Pass
15	QPSK	3457.5	75	0	13.556	/	Pass
		3500	75	0	13.558	/	Pass
		3542.5	75	0	13.524	/	Pass
	16QAM	3457.5	75	0	13.583	/	Pass
		3500	75	0	13.569	/	Pass
		3542.5	75	0	13.589	/	Pass
20	QPSK	3460	100	0	18.043	/	Pass
		3500	100	0	18.063	/	Pass
		3540	100	0	18.097	/	Pass
	16QAM	3460	100	0	18.052	/	Pass
		3500	100	0	18.064	/	Pass
		3540	100	0	18.102	/	Pass



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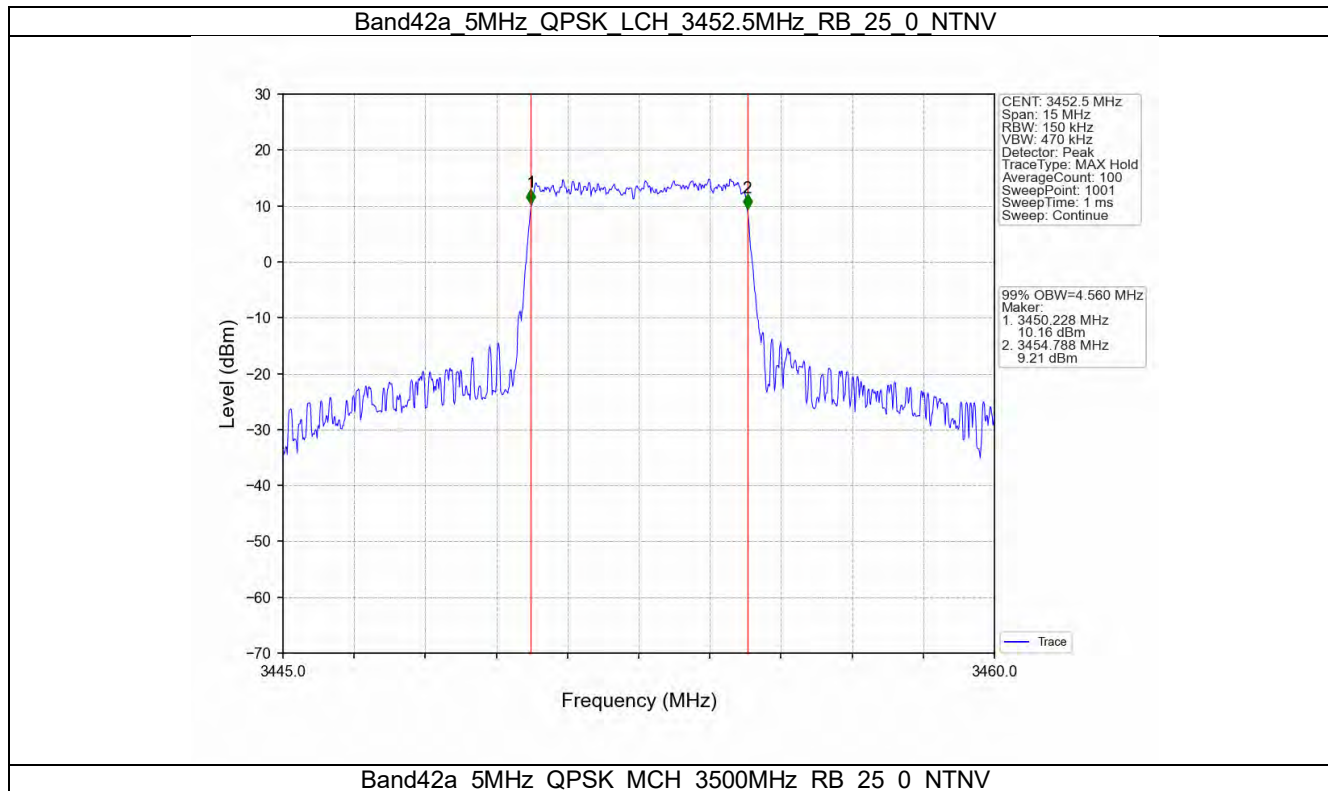
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Rev.: 01

Page: 9 of 144

3.1.2 Test Graph



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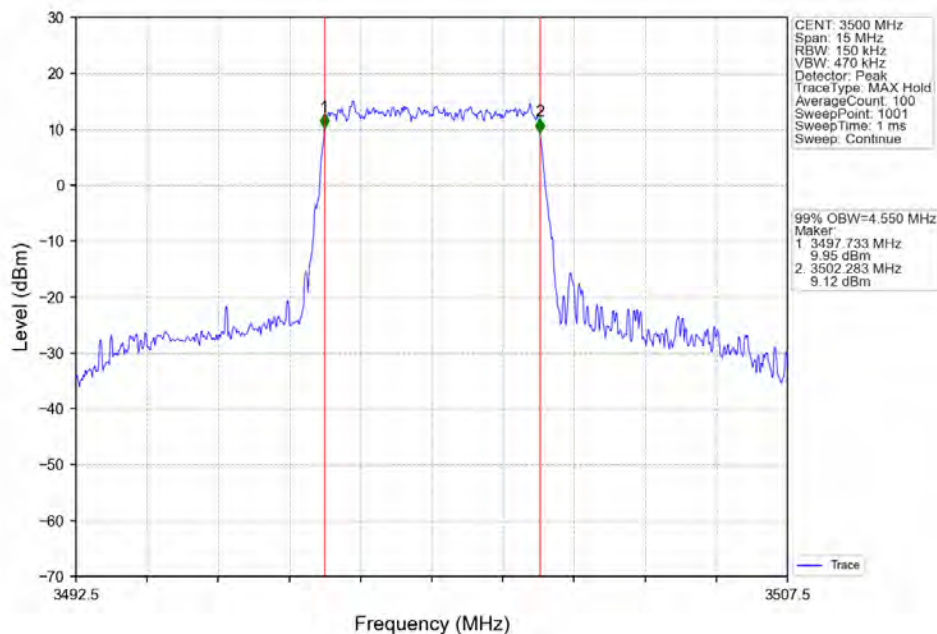
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Rev.: 01

Page: 10 of 144



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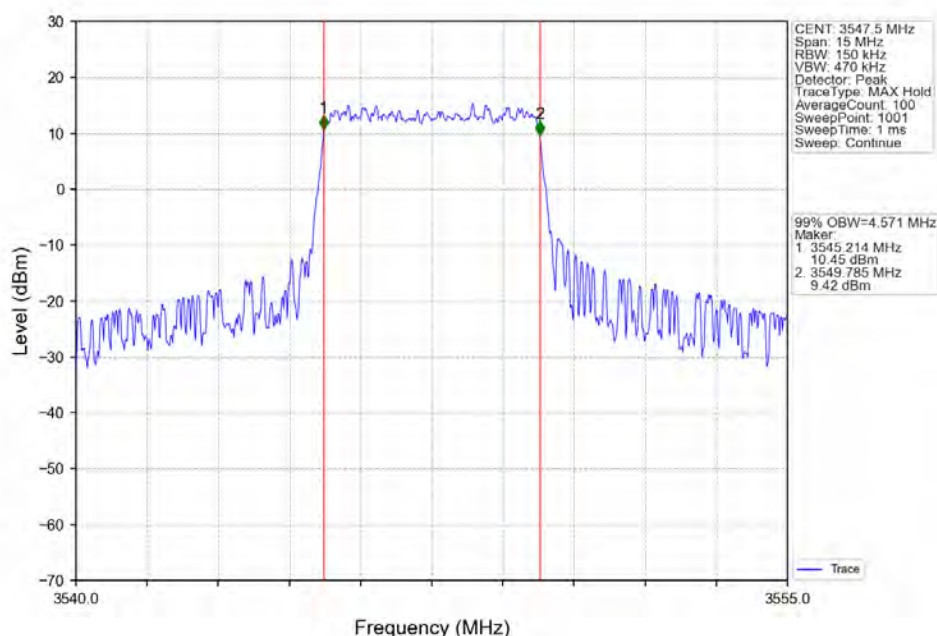
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Report No.: SUCR240500014801

Rev.: 01

Page: 11 of 144

Band42a_5MHz_QPSK_HCH_3547.5MHz_RB_25_0_NTNV



Band42a_5MHz_16QAM_LCH_3452.5MHz_RB_25_0_NTNV



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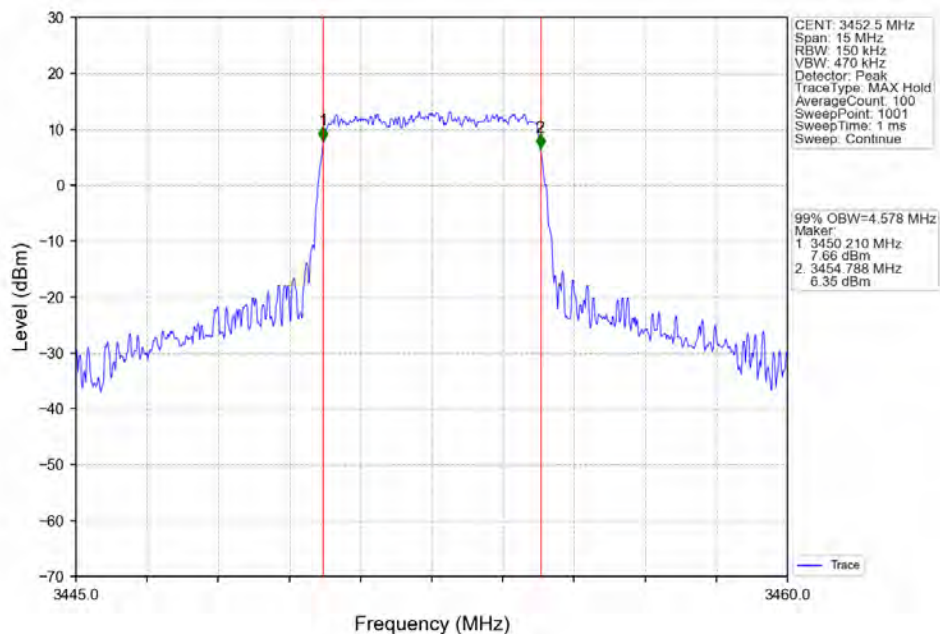
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Rev.: 01

Page: 12 of 144



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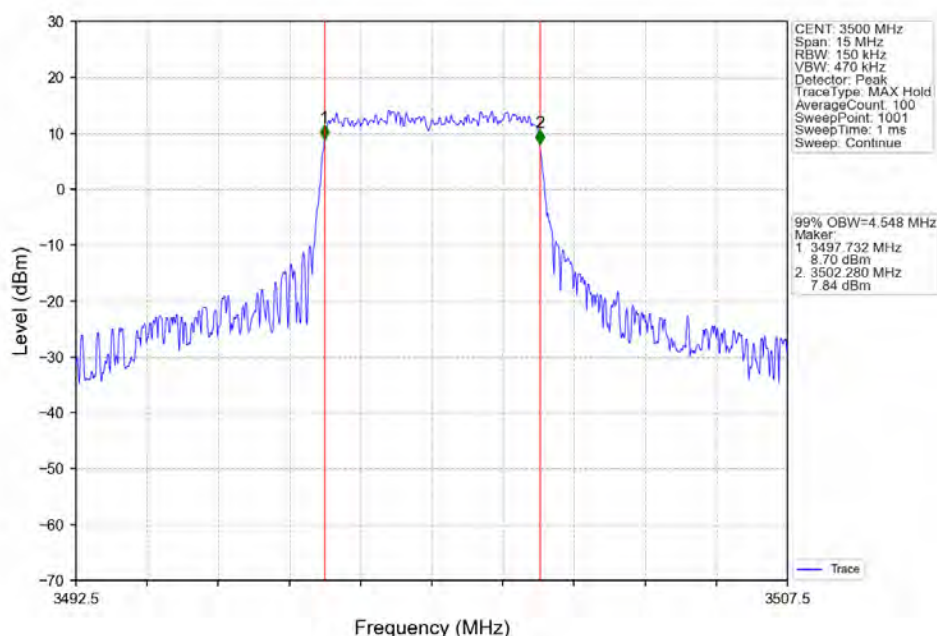
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Report No.: SUCR240500014801

Rev.: 01

Page: 13 of 144

Band42a_5MHz_16QAM_MCH_3500MHz_RB_25_0_NTNV



Band42a_5MHz_16QAM_HCH_3547.5MHz_RB_25_0_NTNV



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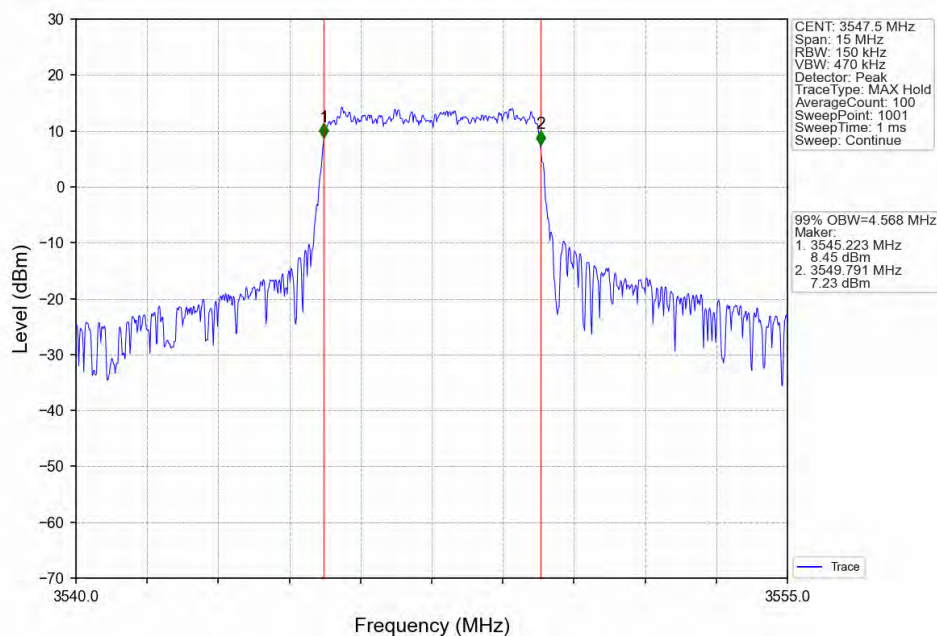
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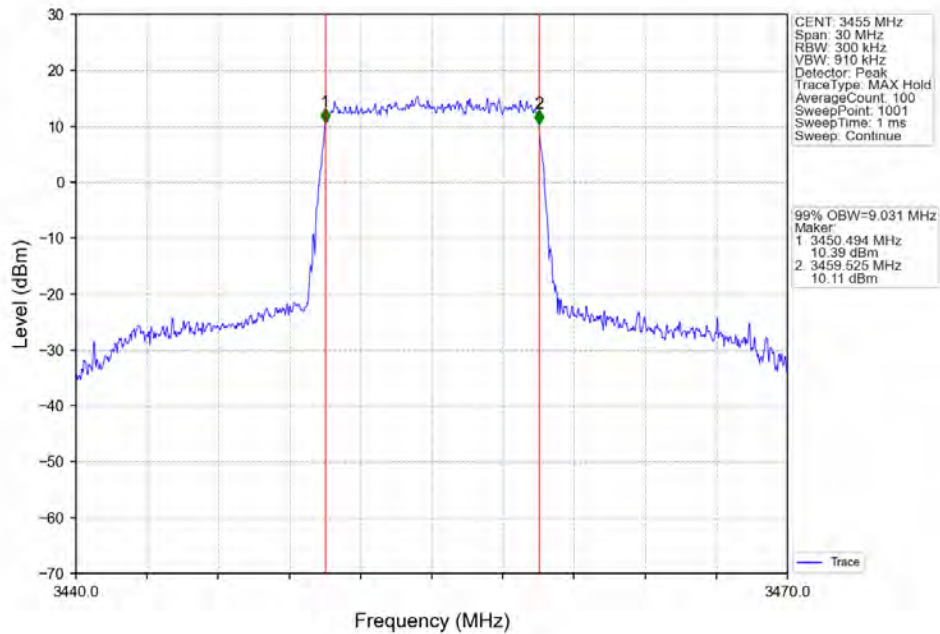
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Rev.: 01

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Band42a_10MHz_QPSK_MCH_3500MHz_RB_50_0_NTNV



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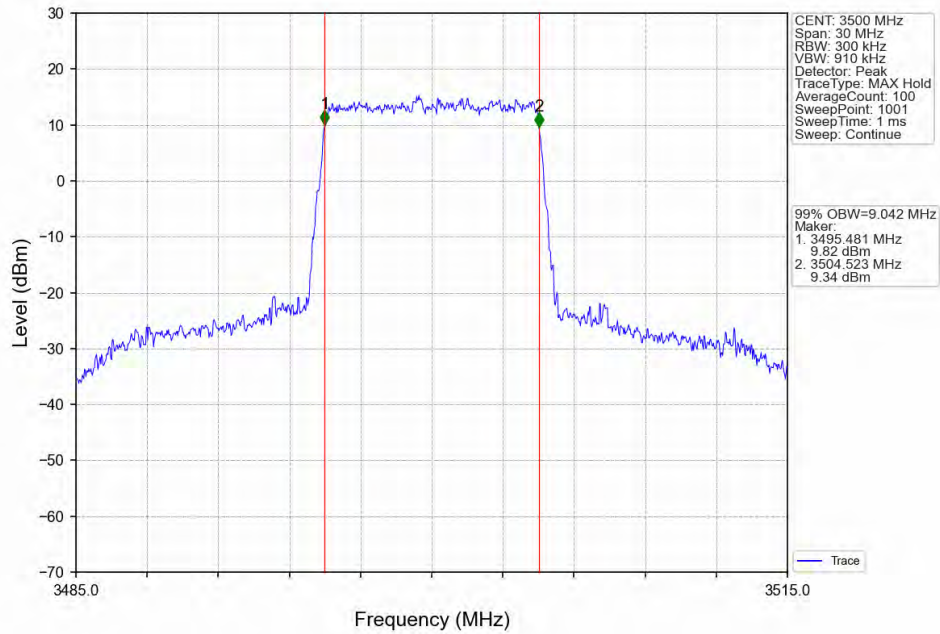
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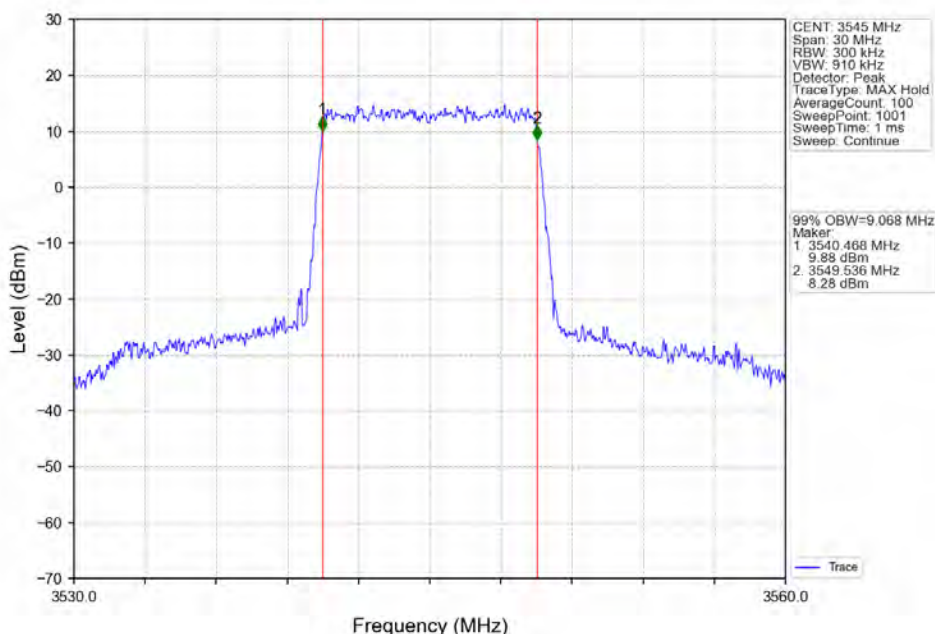
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Rev.: 01

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Band42a_10MHz_16QAM_LCH_3455MHz_RB_50_0_NTNV



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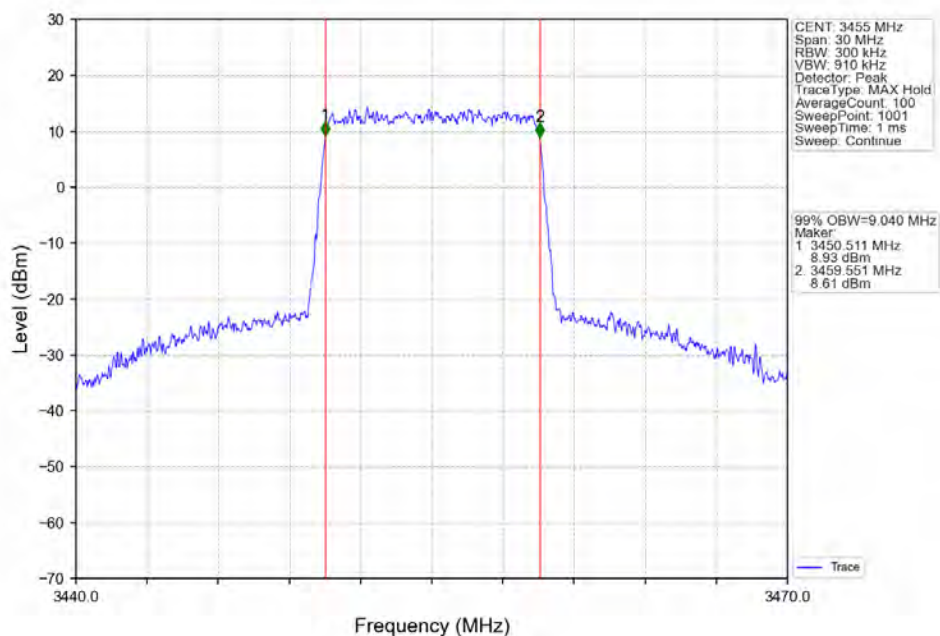
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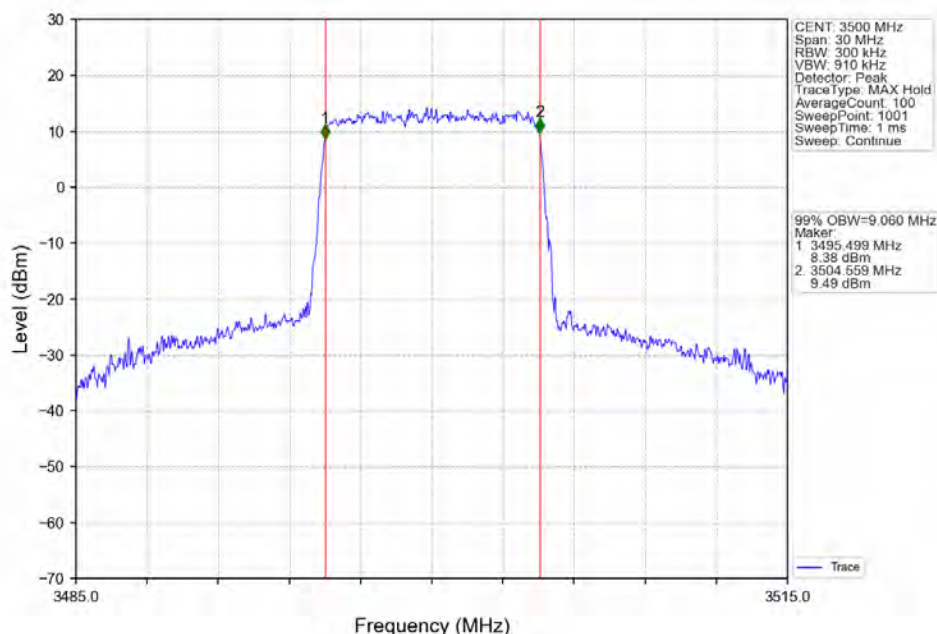
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Report No.: SUCR240500014801

Rev.: 01

Page: 19 of 144

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Band42a_10MHz_16QAM_HCH_3545MHz_RB_50_0_NTNV



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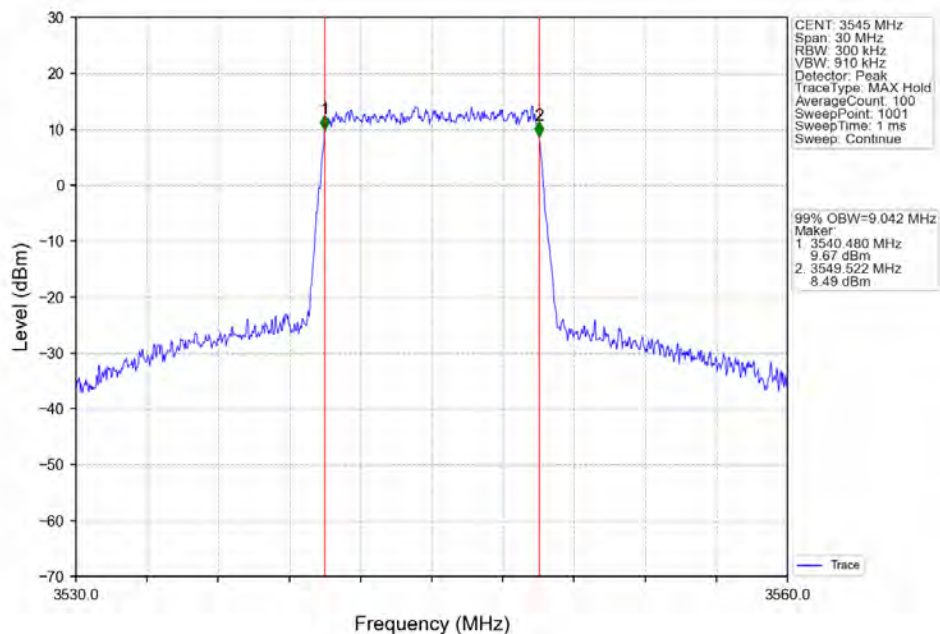
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Report No.: SUCR240500014801

Rev.: 01

Page: 20 of 144



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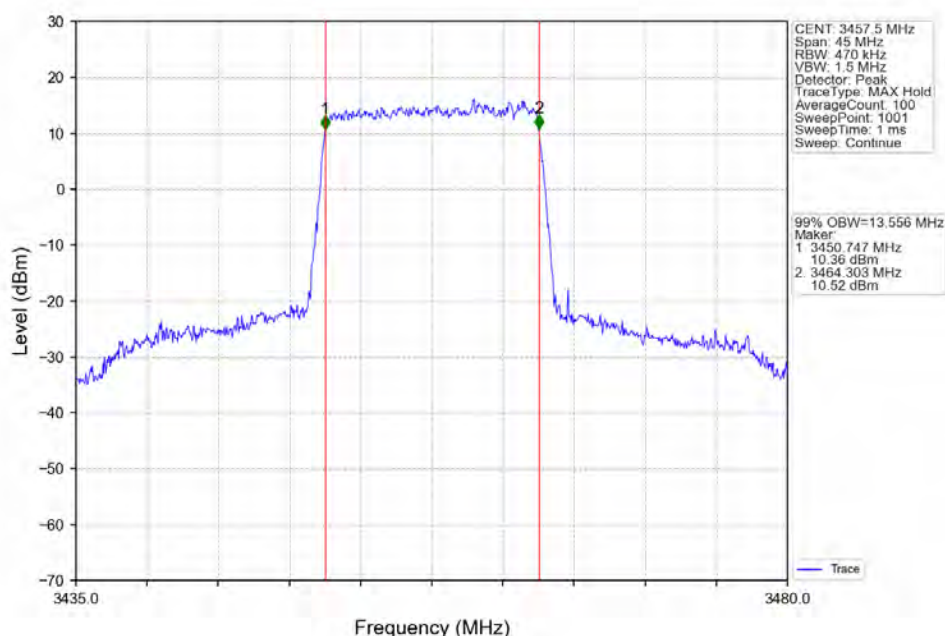
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Report No.: SUCR240500014801

Rev.: 01

Page: 21 of 144

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Band42a_15MHz_QPSK_MCH_3500MHz_RB_75_0_NTNV



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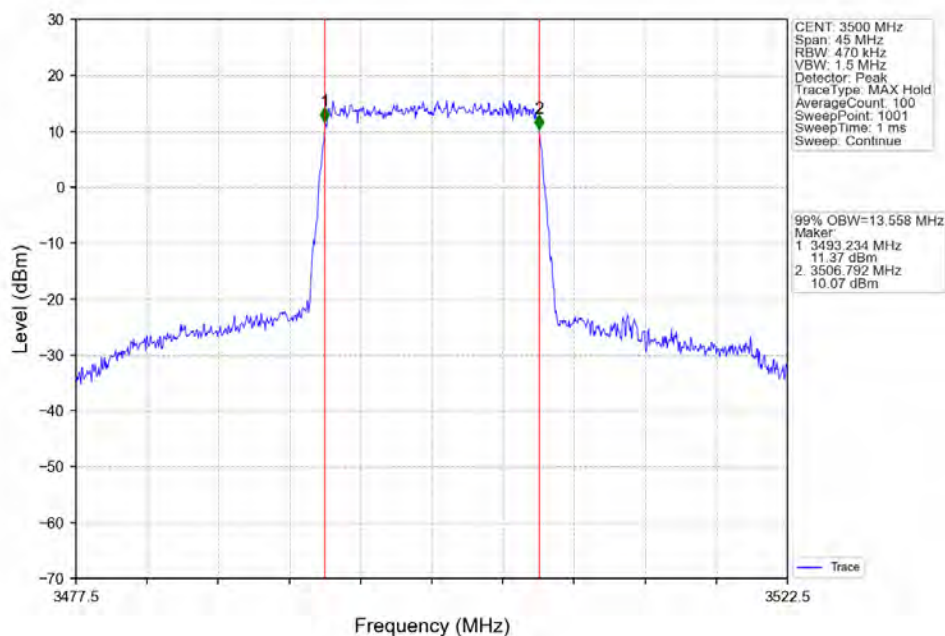
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Rev.: 01

Page: 22 of 144



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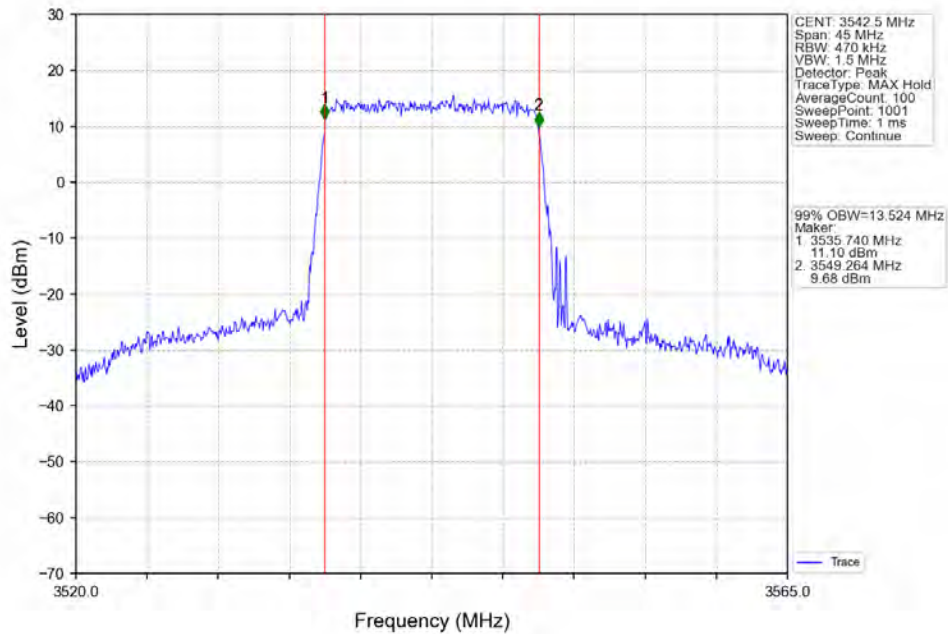
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Report No.: SUCR240500014801

Rev.: 01

Page: 23 of 144

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Band42a_15MHz_16QAM_LCH_3457.5MHz_RB_75_0_NTNV



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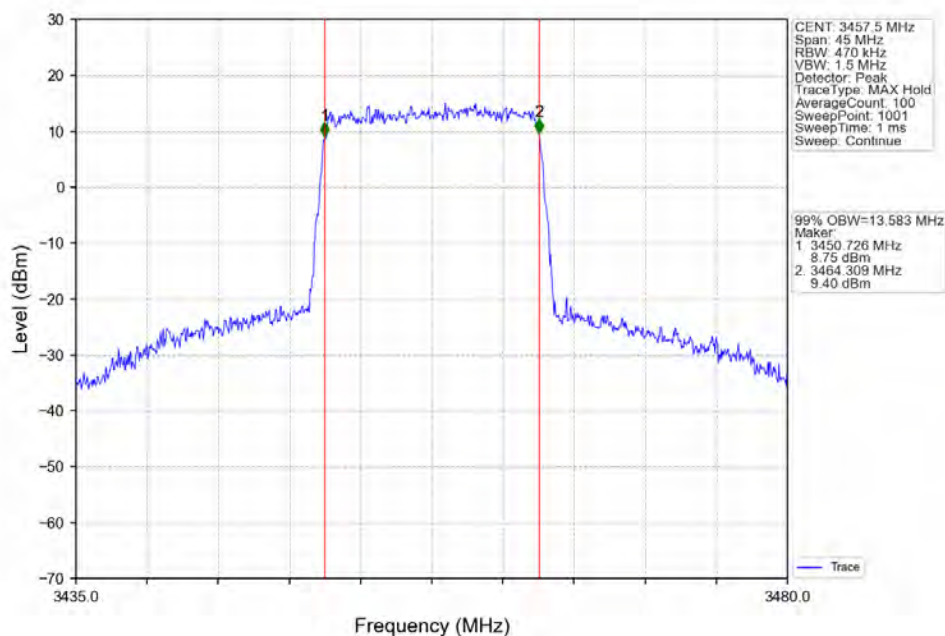
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Page: 24 of 144



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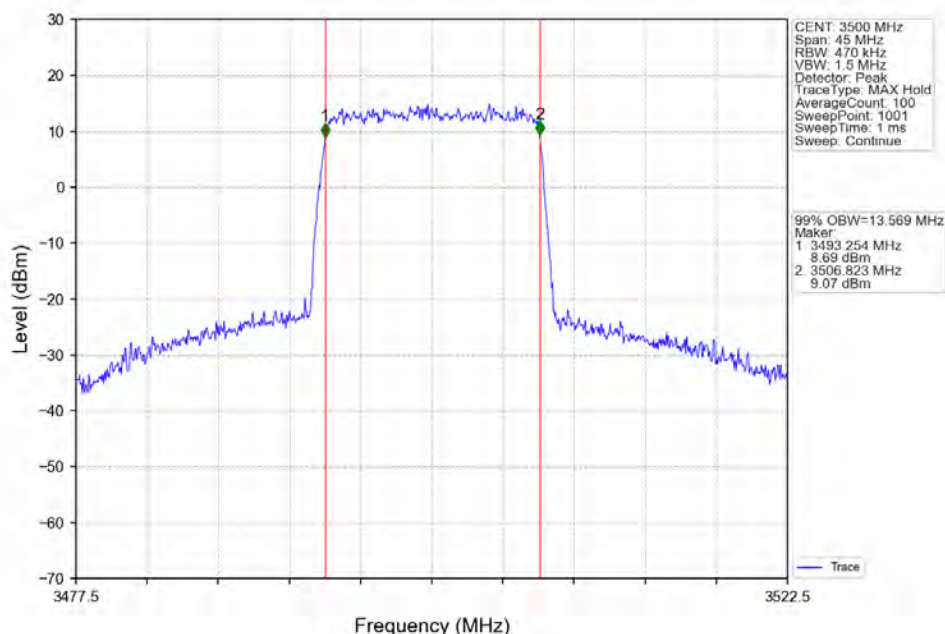
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Report No.: SUCR240500014801

Rev.: 01

Page: 25 of 144

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Band42a_15MHz_16QAM_HCH_3542.5MHz_RB_75_0_NTNV



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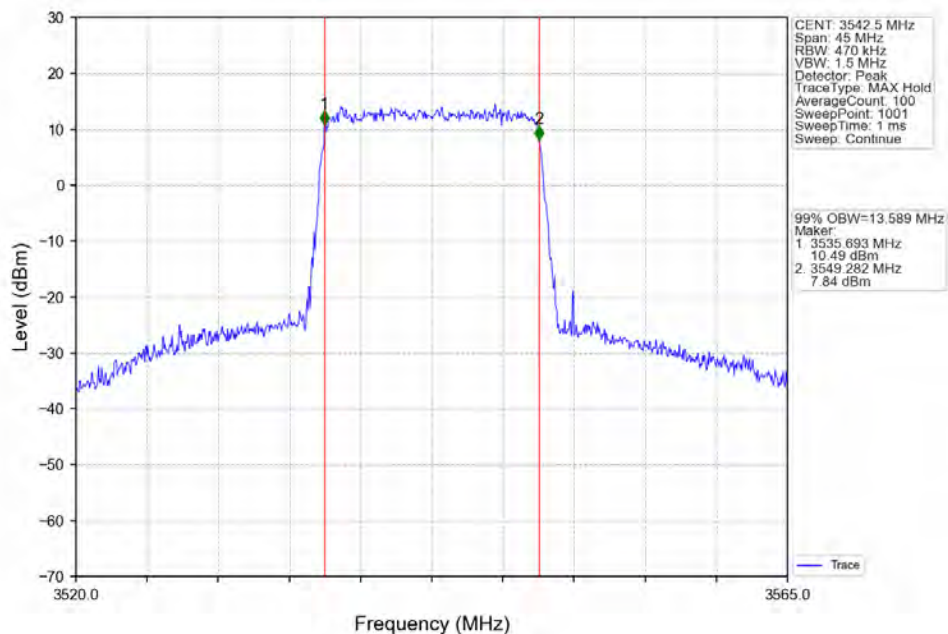
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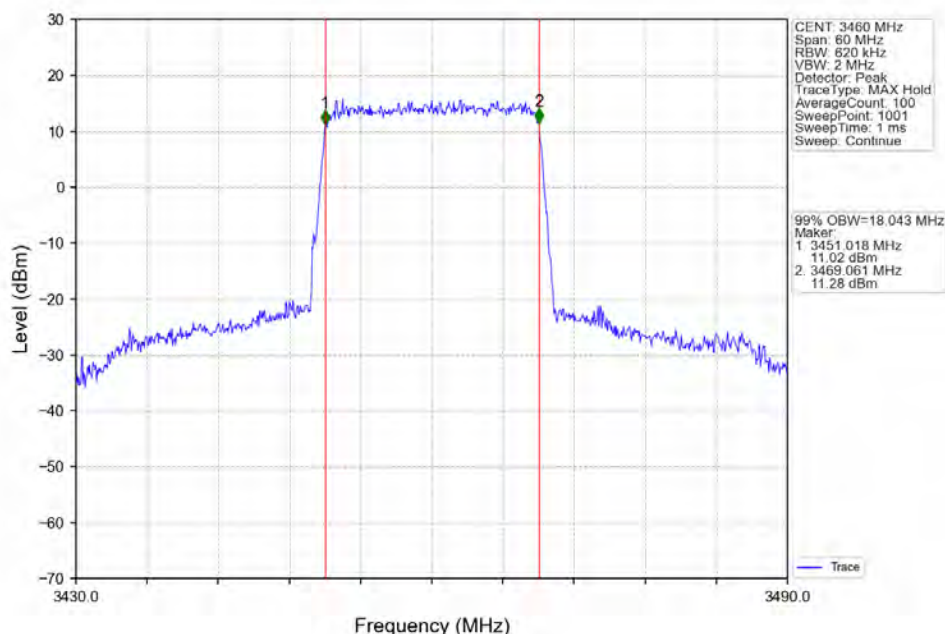
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Rev.: 01

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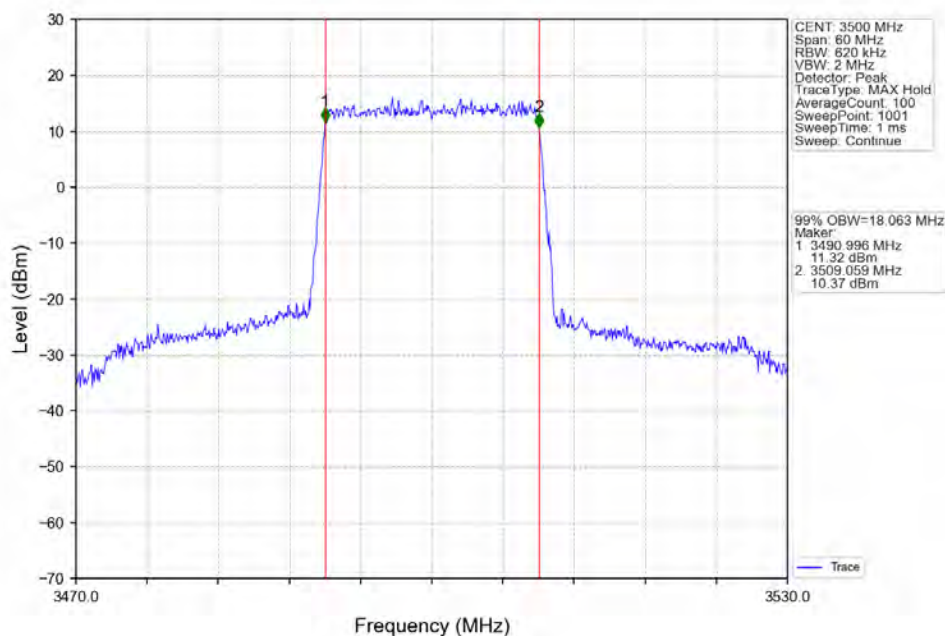
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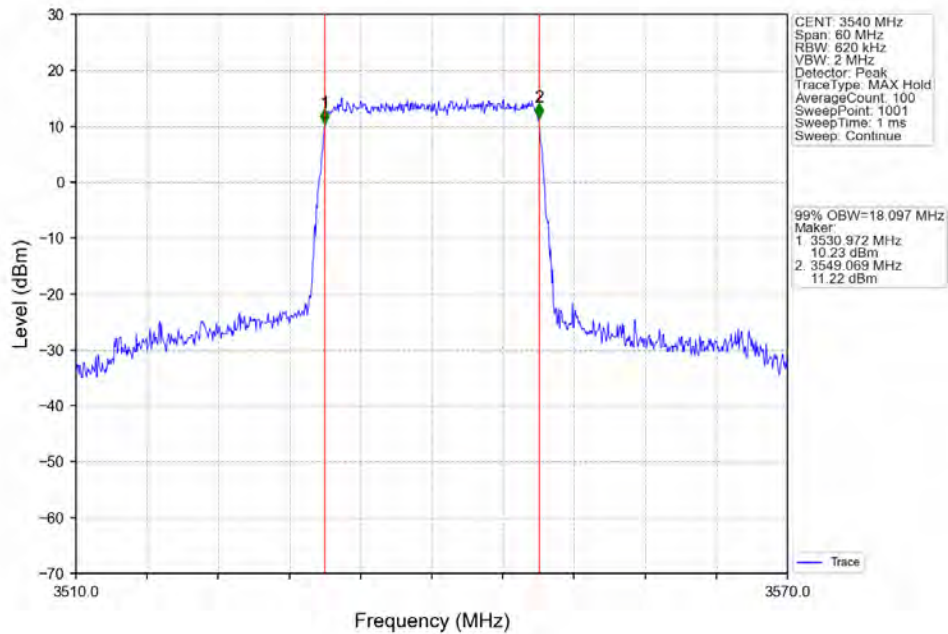
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Rev.: 01

Page: 29 of 144

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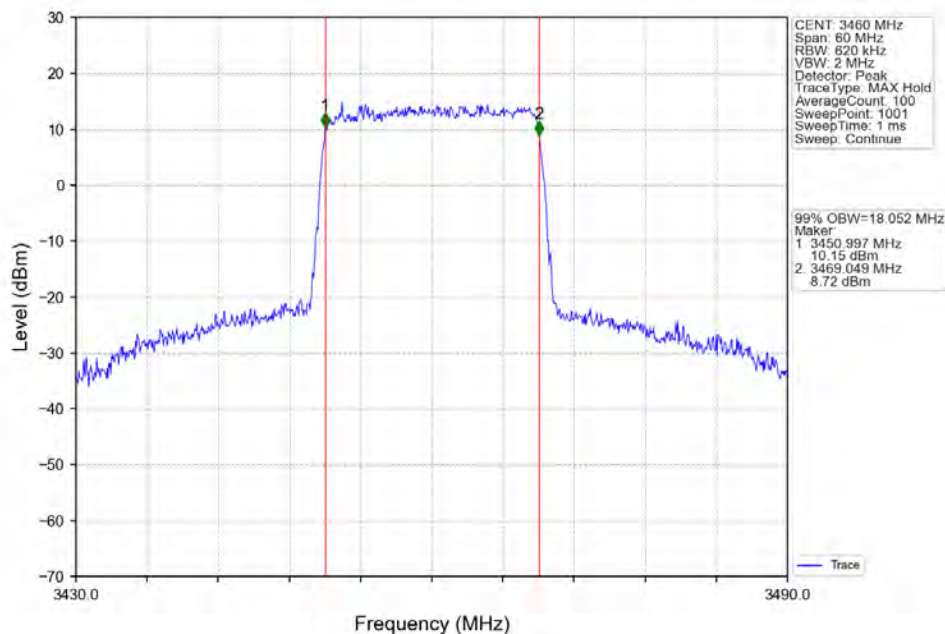
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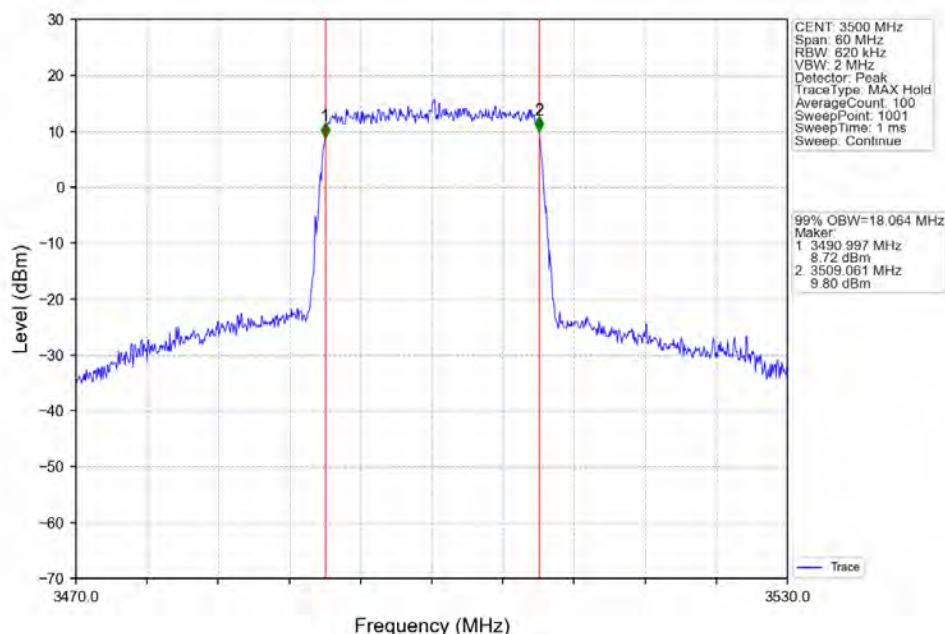
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Rev.: 01

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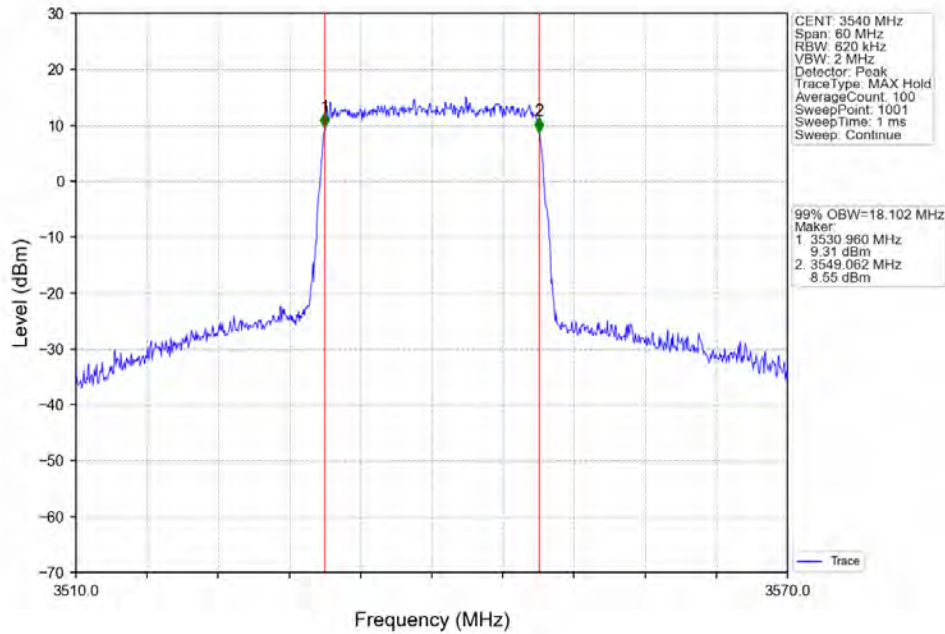
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Report No.: SUCR240500014801

Rev.: 01

Page: 32 of 144



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Report No.: SUCR240500014801

Rev.: 01

Page: 33 of 144

3.2 Band42a_XDB

3.2.1 Test Result

Band: 42a / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	3452.5	25	0	5.074	/	Pass
		3500	25	0	5.075	/	Pass
		3547.5	25	0	5.284	/	Pass
	16QAM	3452.5	25	0	5.106	/	Pass
		3500	25	0	5.514	/	Pass
		3547.5	25	0	5.702	/	Pass
10	QPSK	3455	50	0	9.947	/	Pass
		3500	50	0	9.968	/	Pass
		3545	50	0	9.964	/	Pass
	16QAM	3455	50	0	9.956	/	Pass
		3500	50	0	9.953	/	Pass
		3545	50	0	9.933	/	Pass
15	QPSK	3457.5	75	0	14.871	/	Pass
		3500	75	0	14.963	/	Pass
		3542.5	75	0	14.999	/	Pass
	16QAM	3457.5	75	0	14.887	/	Pass
		3500	75	0	14.907	/	Pass
		3542.5	75	0	14.911	/	Pass
20	QPSK	3460	100	0	19.847	/	Pass
		3500	100	0	19.660	/	Pass
		3540	100	0	19.849	/	Pass
	16QAM	3460	100	0	19.684	/	Pass
		3500	100	0	19.747	/	Pass
		3540	100	0	19.748	/	Pass



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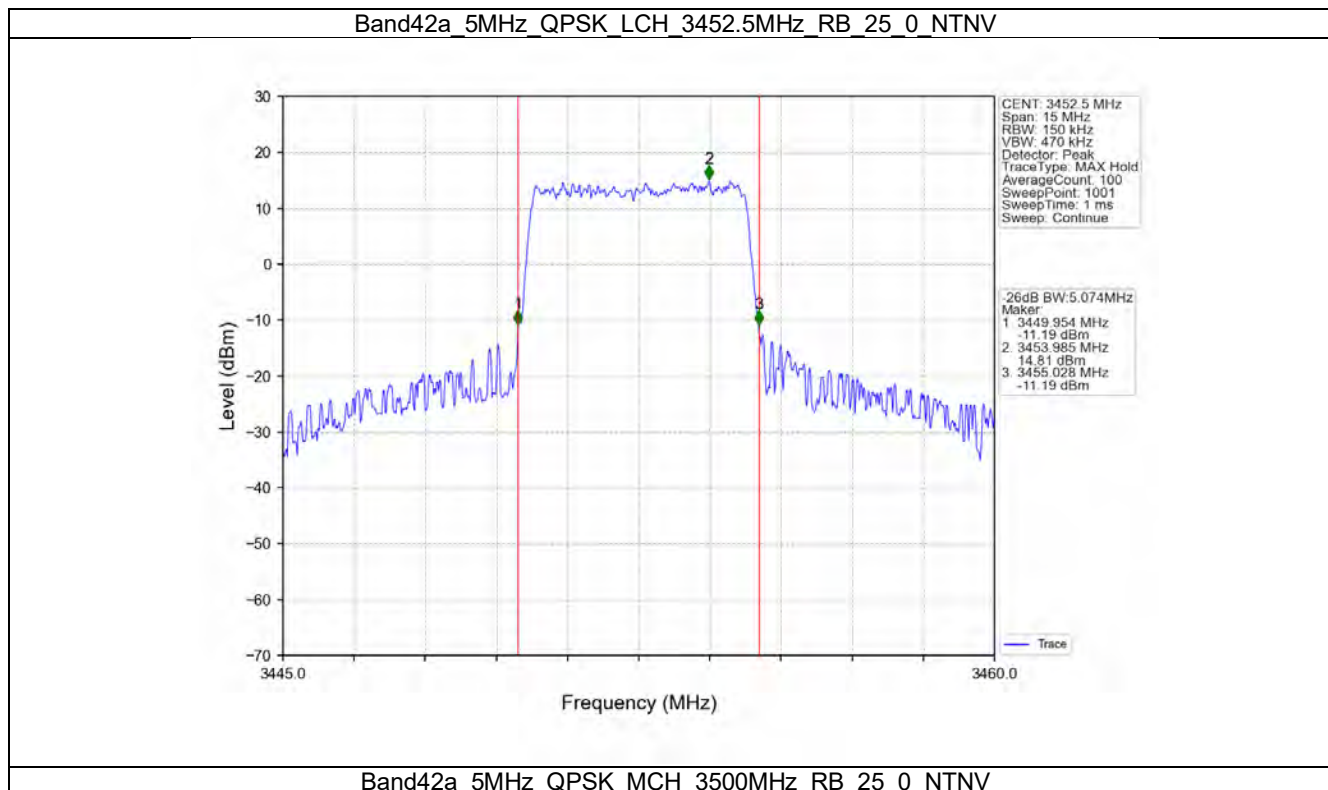
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Page: 34 of 144

3.2.2 Test Graph



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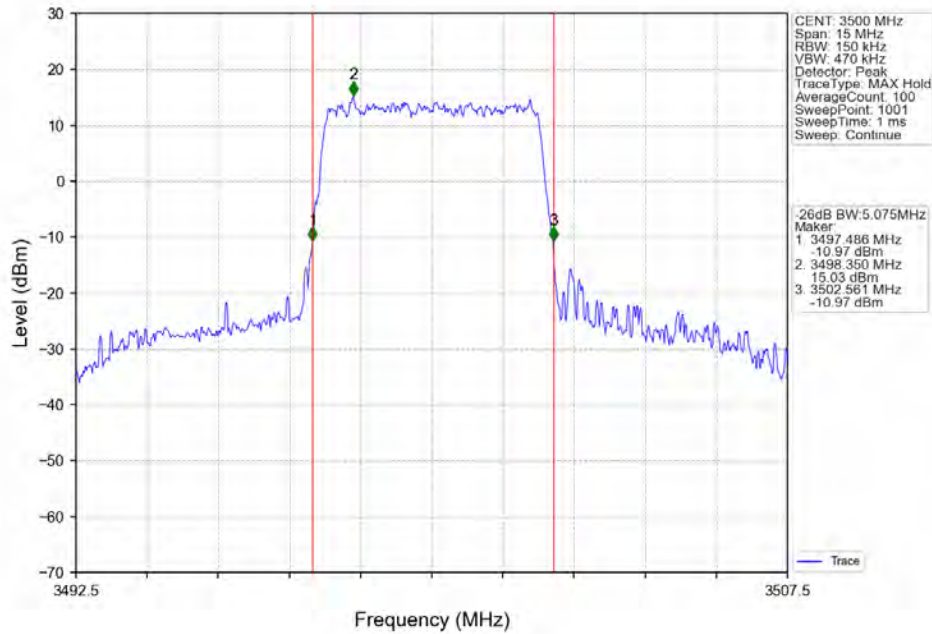
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Rev.: 01

Page: 35 of 144



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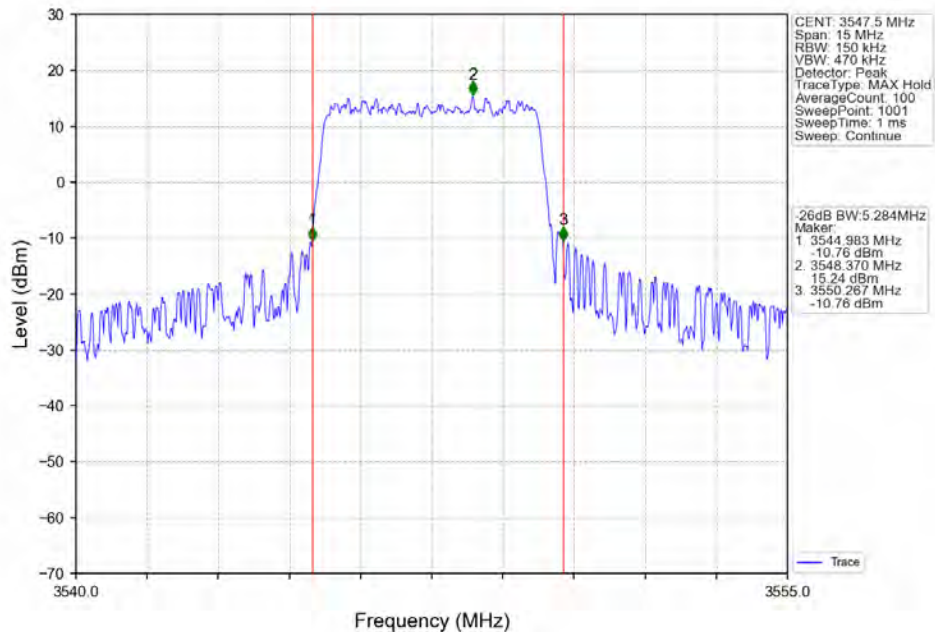
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Rev.: 01

Page: 36 of 144

Band42a_5MHz_QPSK_HCH_3547.5MHz_RB_25_0_NTNV



Band42a_5MHz_16QAM_LCH_3452.5MHz_RB_25_0_NTNV



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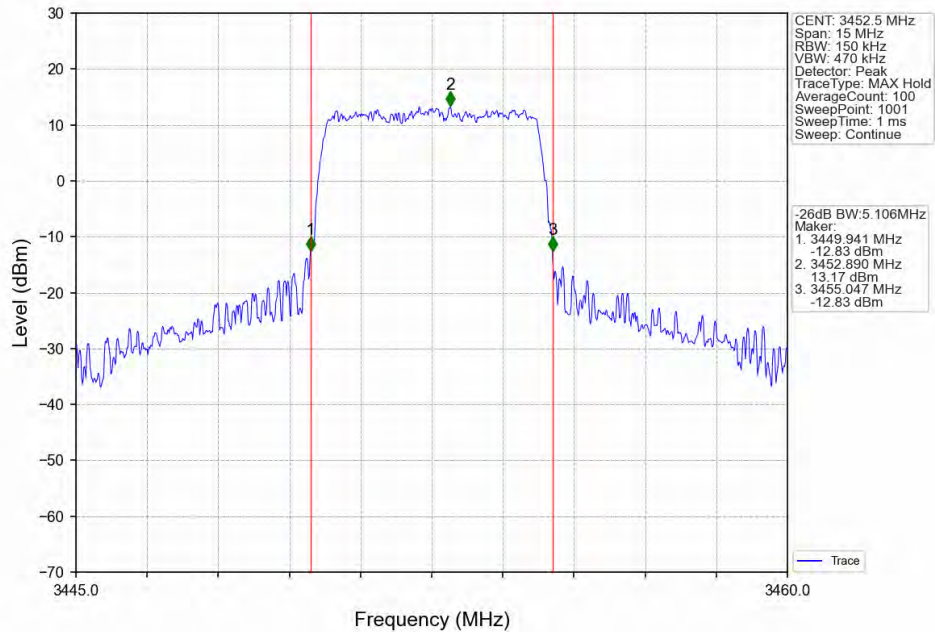
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Rev.: 01

Page: 37 of 144



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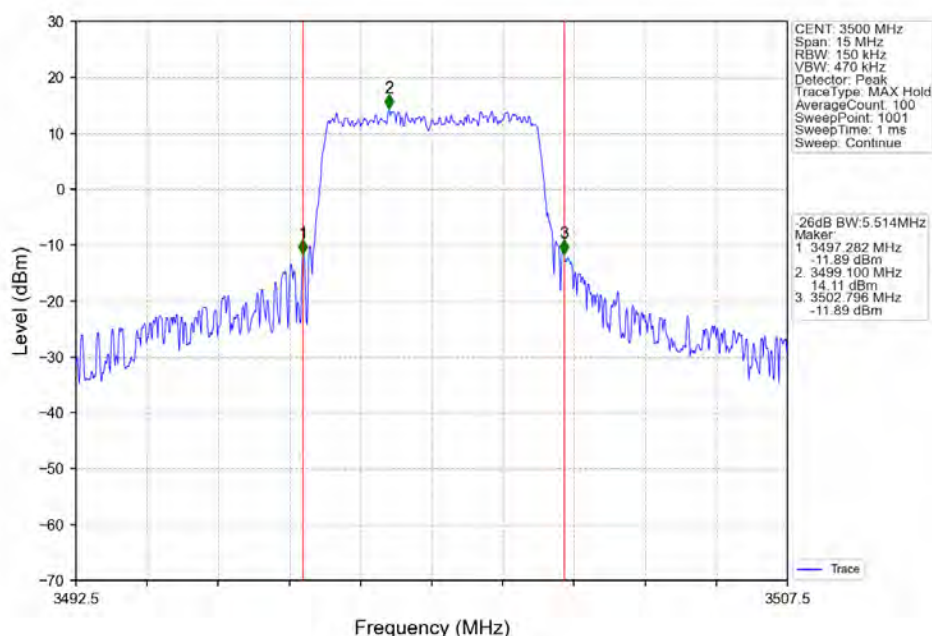
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Report No.: SUCR240500014801

Rev.: 01

Page: 38 of 144

Band42a_5MHz_16QAM_MCH_3500MHz_RB_25_0_NTNV



Band42a_5MHz_16QAM_HCH_3547.5MHz_RB_25_0_NTNV



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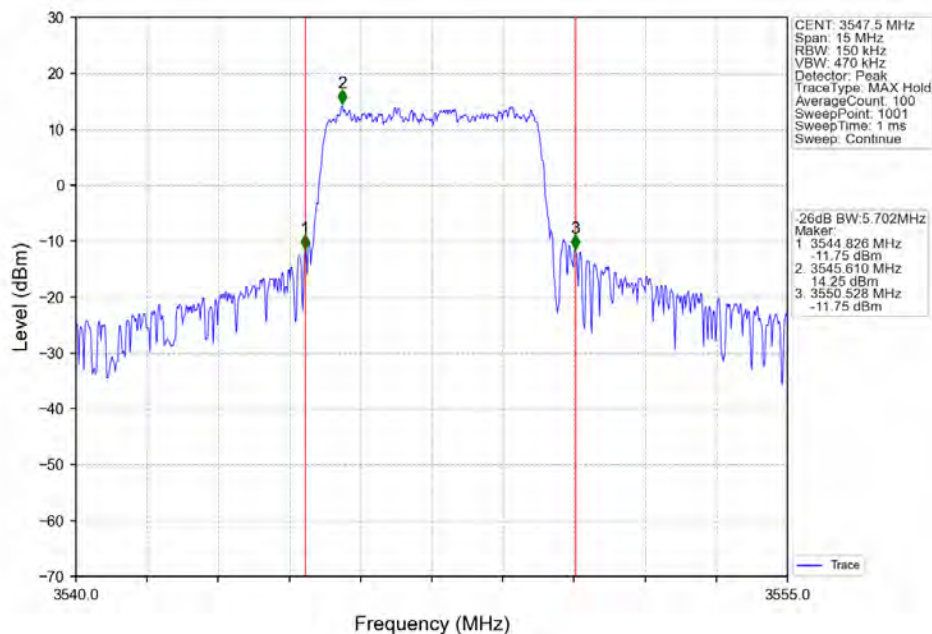
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Page: 39 of 144



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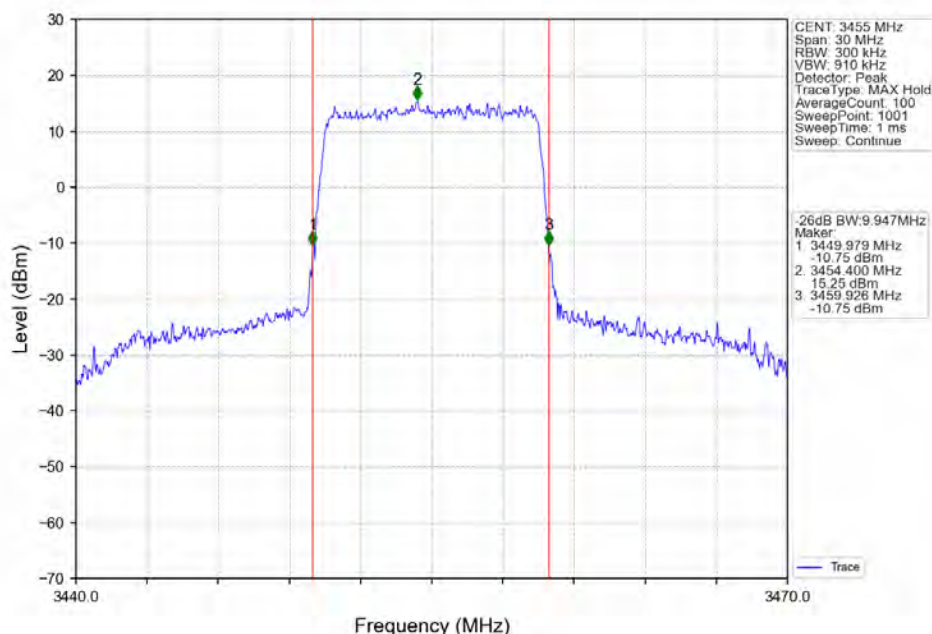
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Rev.: 01

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Band42a_10MHz_QPSK_MCH_3500MHz_RB_50_0_NTNV



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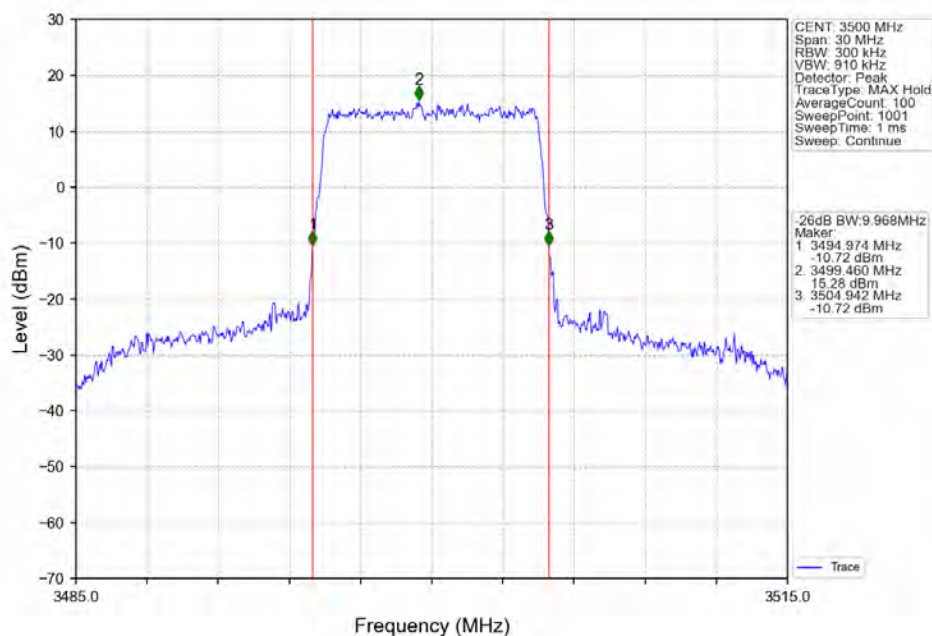
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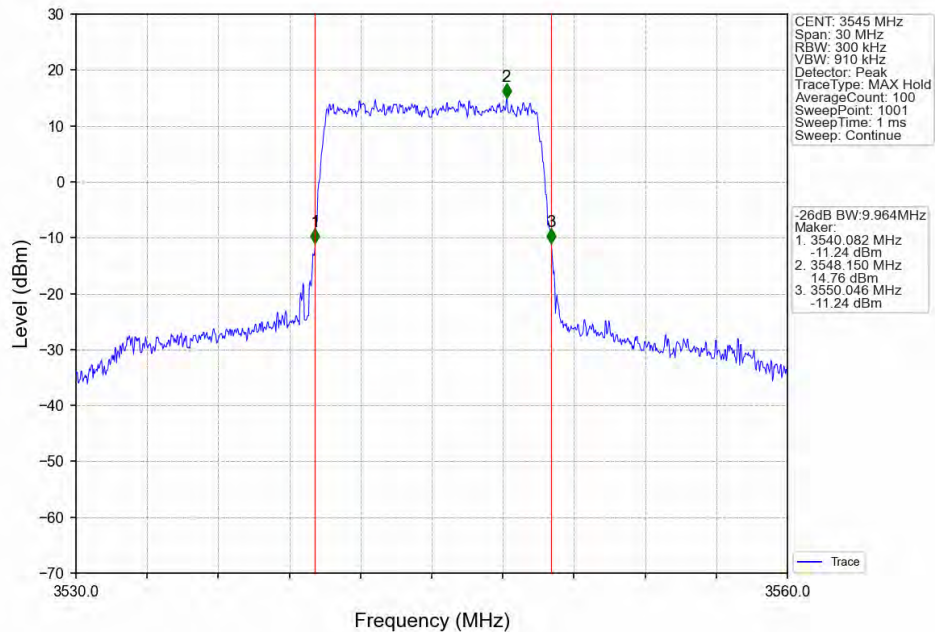
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Band42a_10MHz_16QAM_LCH_3545MHz_RB_50_0_NTNV



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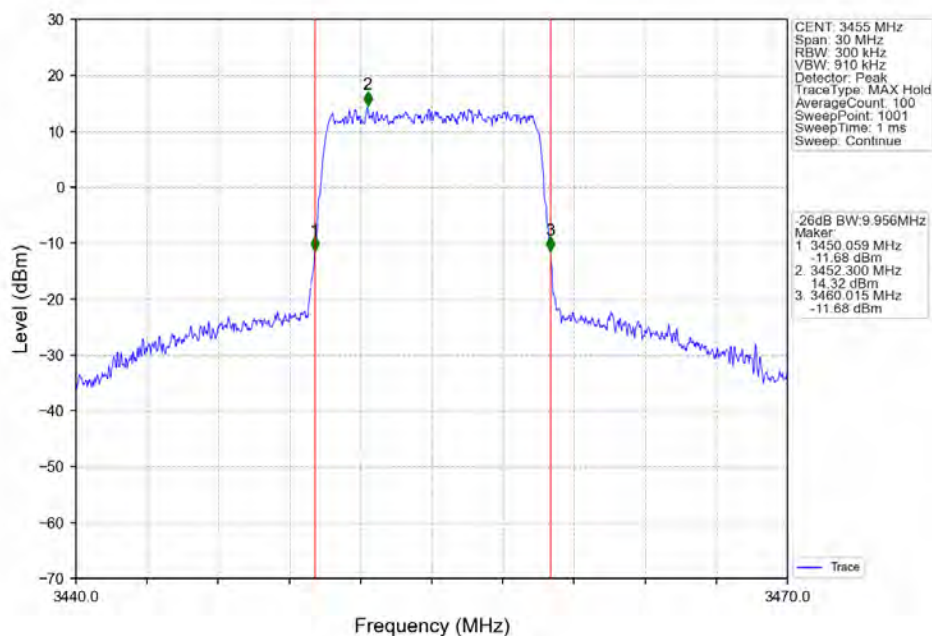
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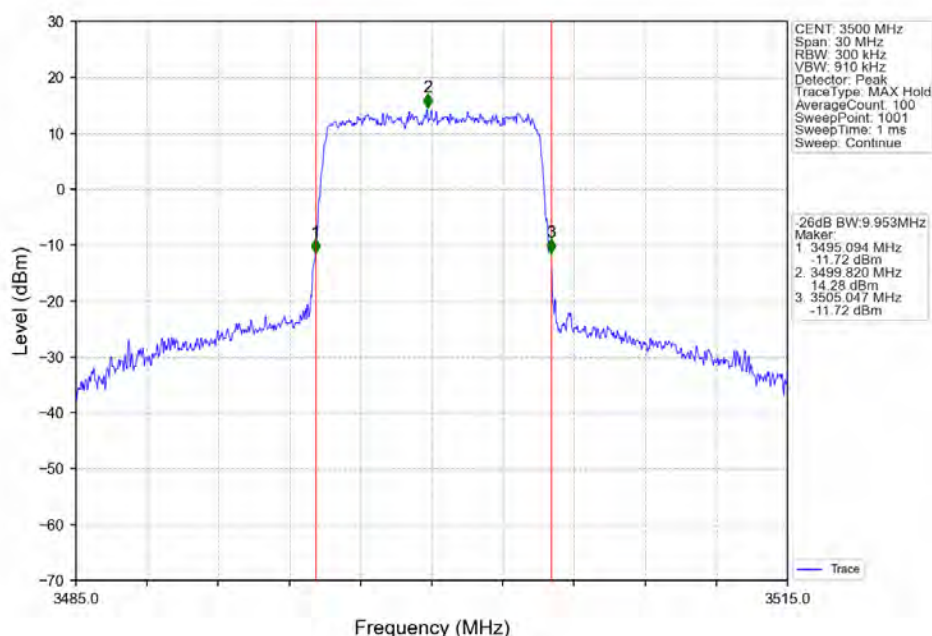
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Report No.: SUCR240500014801

Rev.: 01

Page: 44 of 144

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Band42a_10MHz_16QAM_HCH_3545MHz_RB_50_0_NTNV



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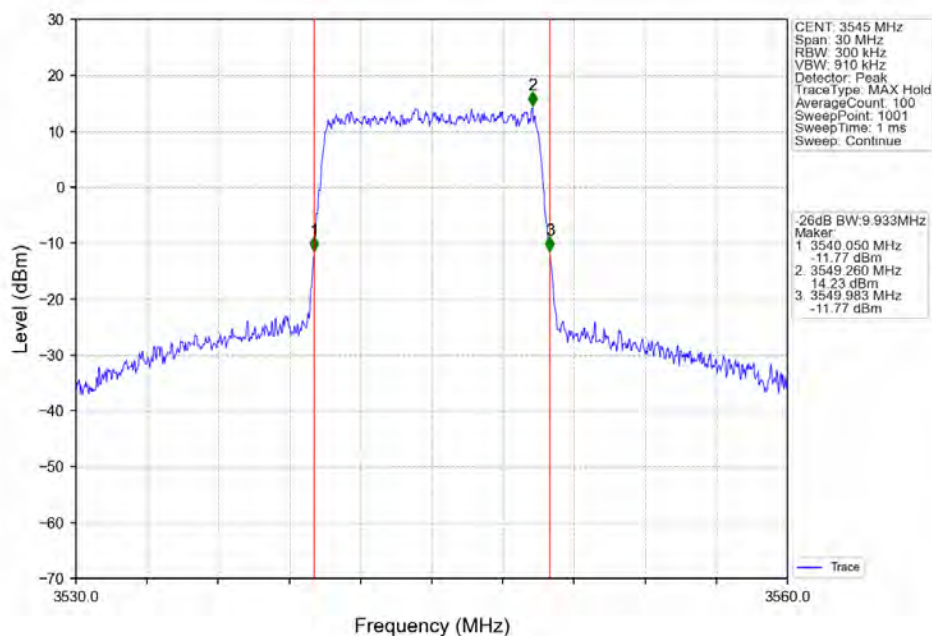
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Report No.: SUCR240500014801

Rev.: 01

Page: 45 of 144



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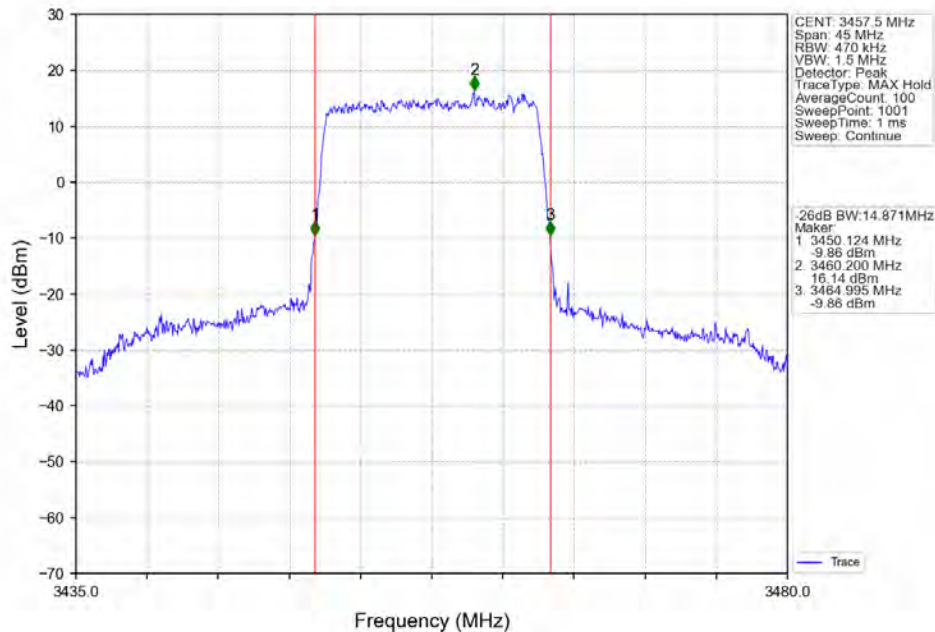
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Report No.: SUCR240500014801

Rev.: 01

Page: 46 of 144

Band42a_15MHz_QPSK_LCH_3457.5MHz_RB_75_0_NTNV



Band42a_15MHz_QPSK_MCH_3500MHz_RB_75_0_NTNV



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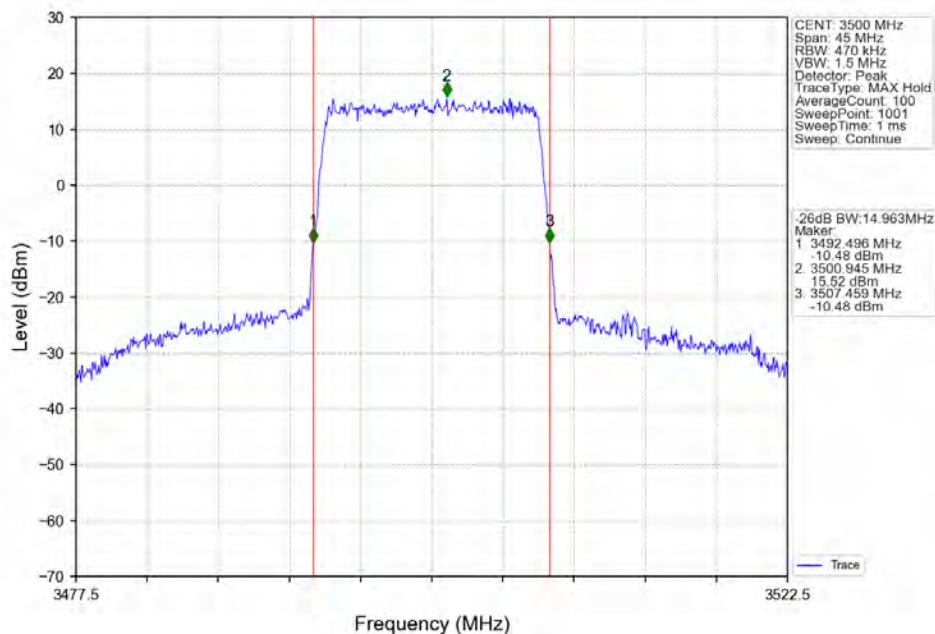
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Report No.: SUCR240500014801

Rev.: 01

Page: 47 of 144



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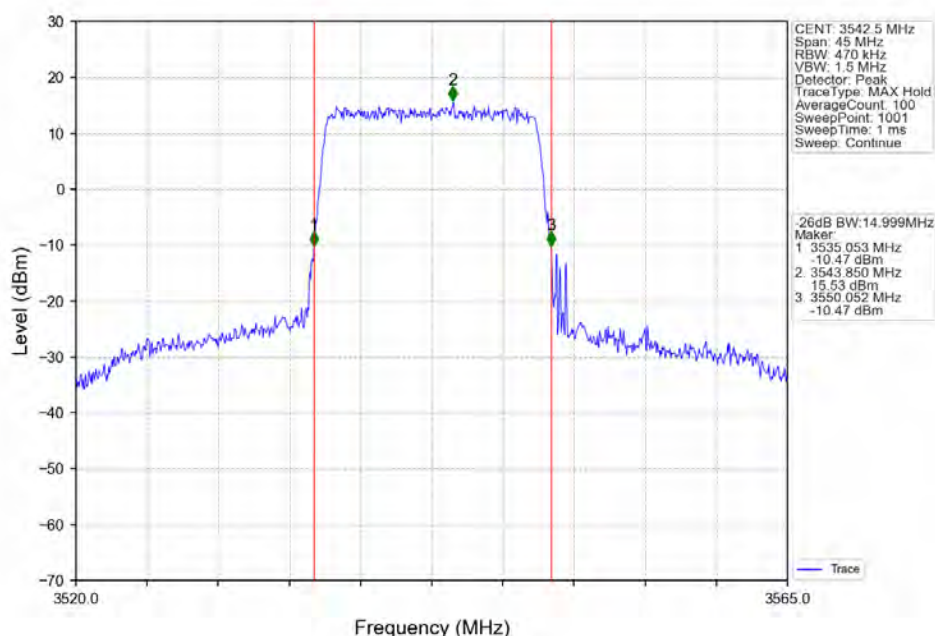
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Report No.: SUCR240500014801

Rev.: 01

Page: 48 of 144

Band42a_15MHz_QPSK_HCH_3542.5MHz_RB_75_0_NTNV



Band42a_15MHz_16QAM_LCH_3457.5MHz_RB_75_0_NTNV



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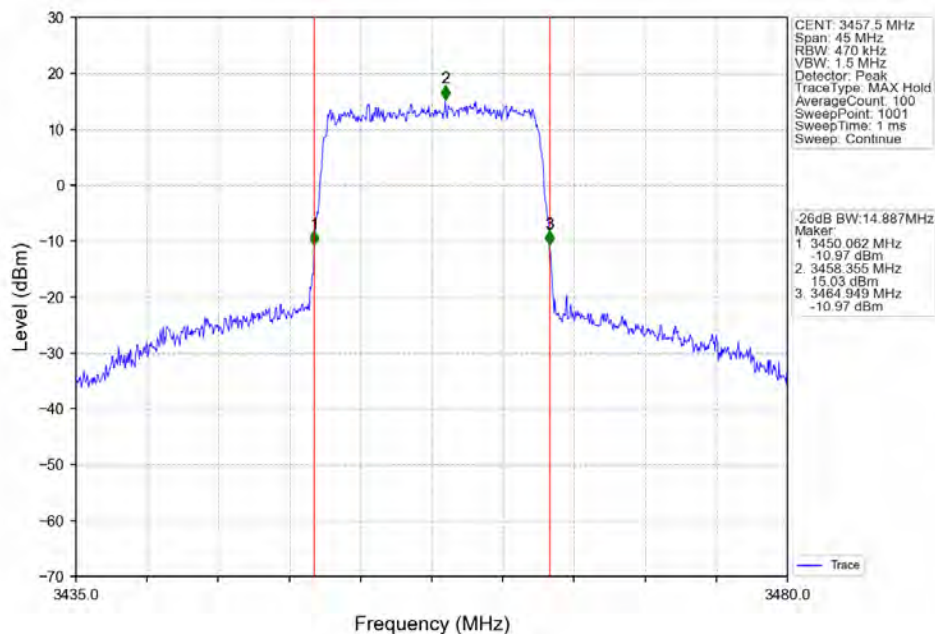
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Page: 49 of 144



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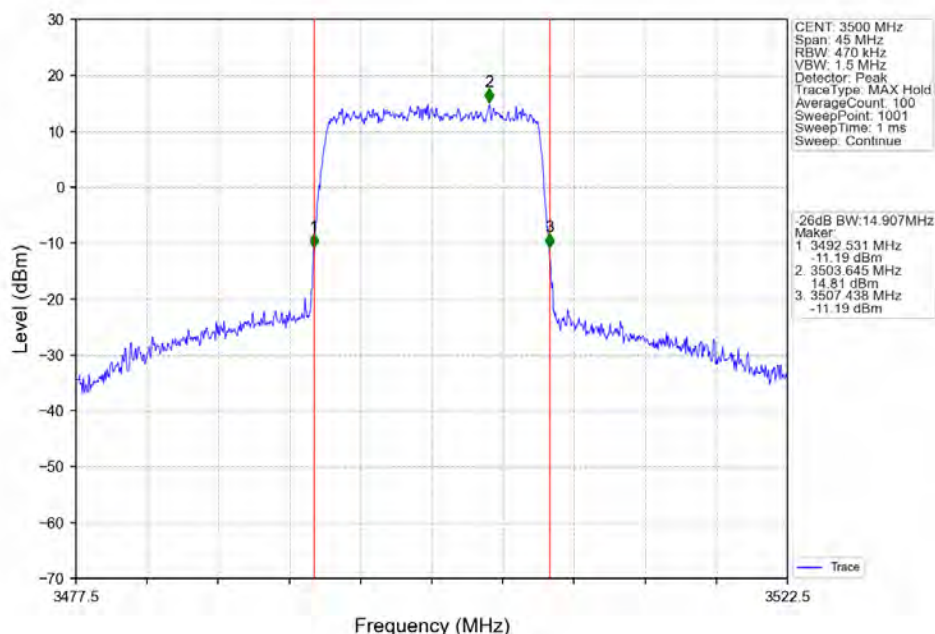
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Rev.: 01

Page: 50 of 144

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Band42a_15MHz_16QAM_HCH_3542.5MHz_RB_75_0_NTNV



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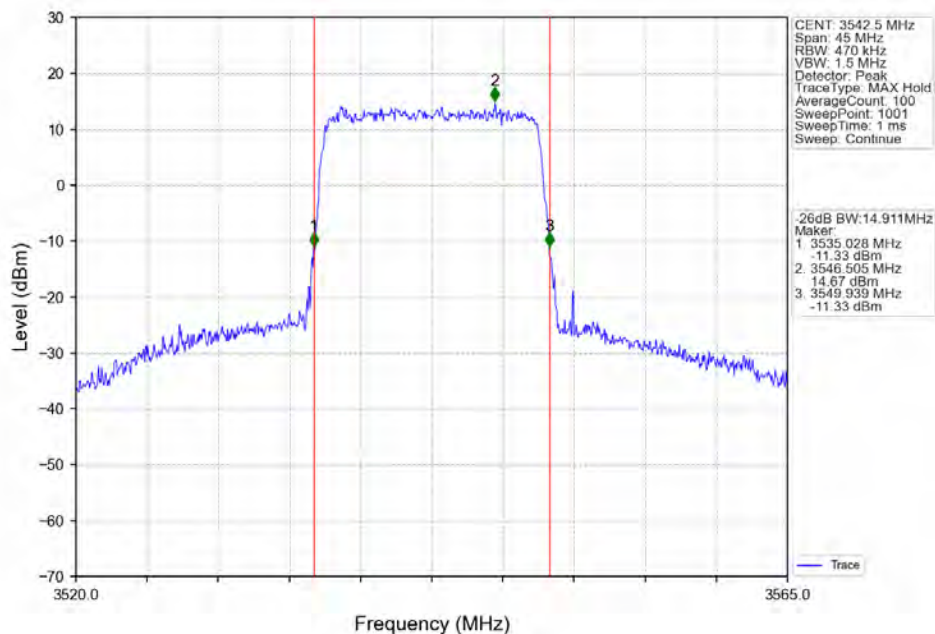
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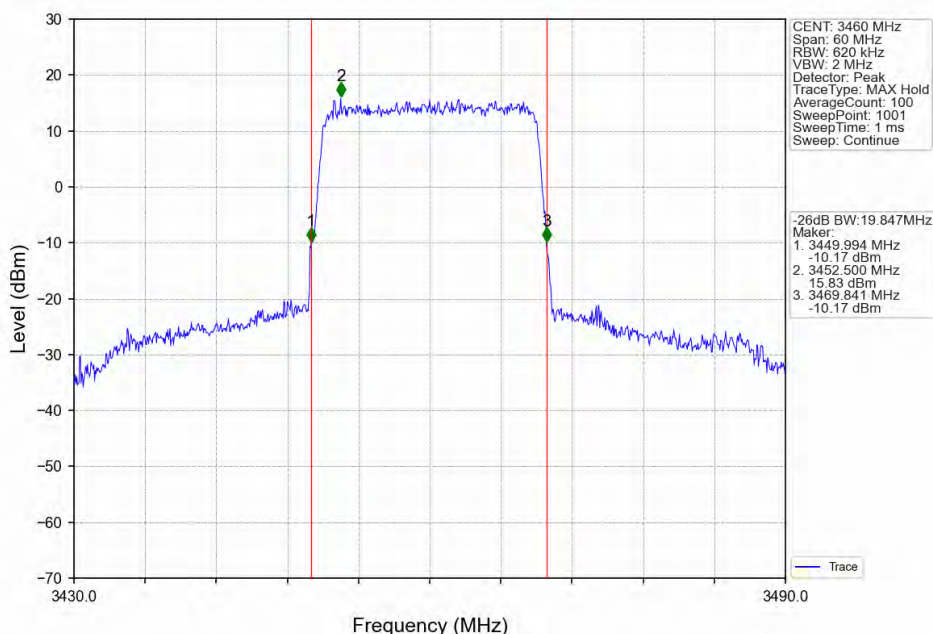
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Band42a_20MHz_QPSK_MCH_3500MHz_RB_100_0_NTNV



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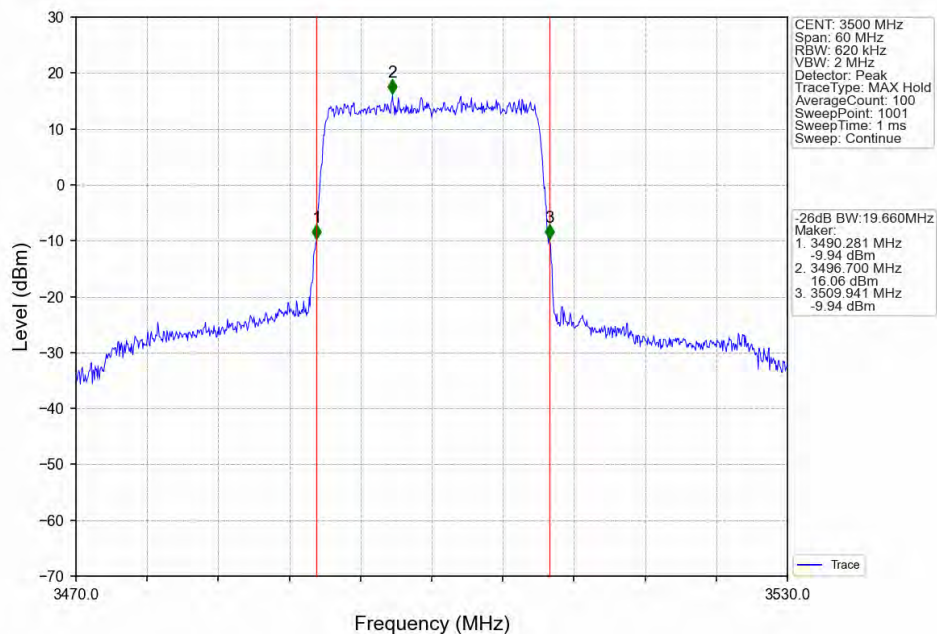
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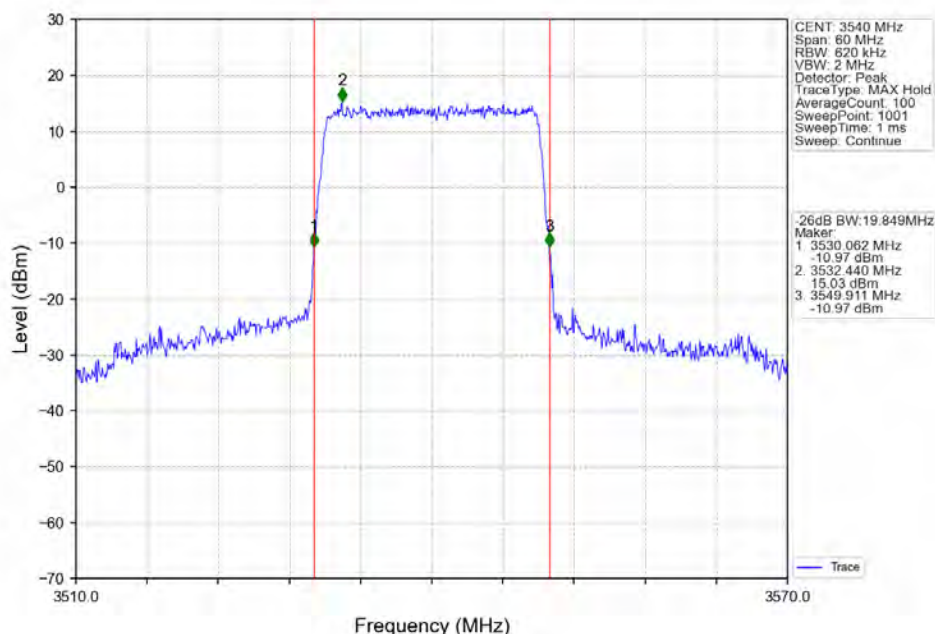
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Report No.: SUCR240500014801

Rev.: 01

Page: 54 of 144

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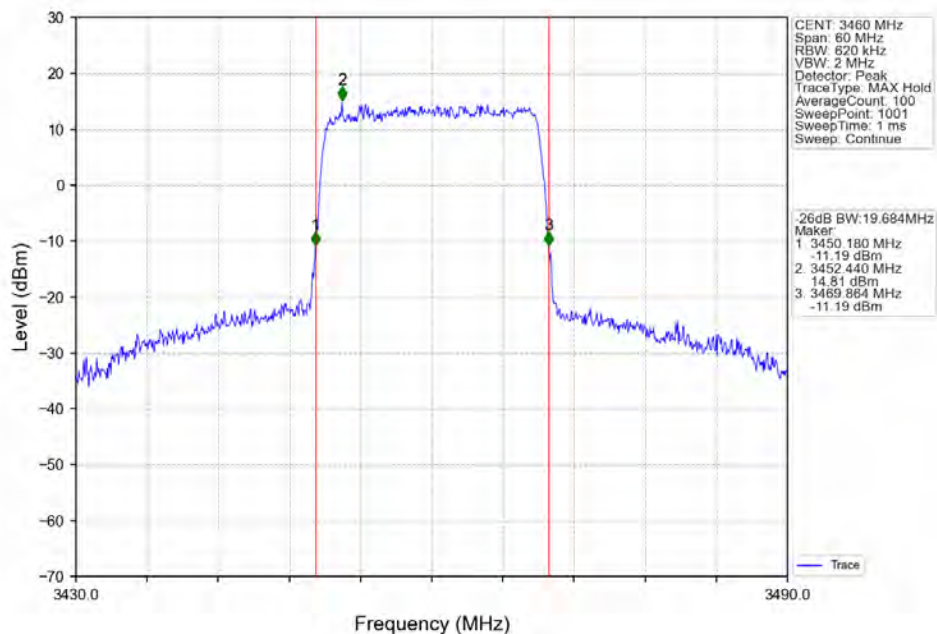
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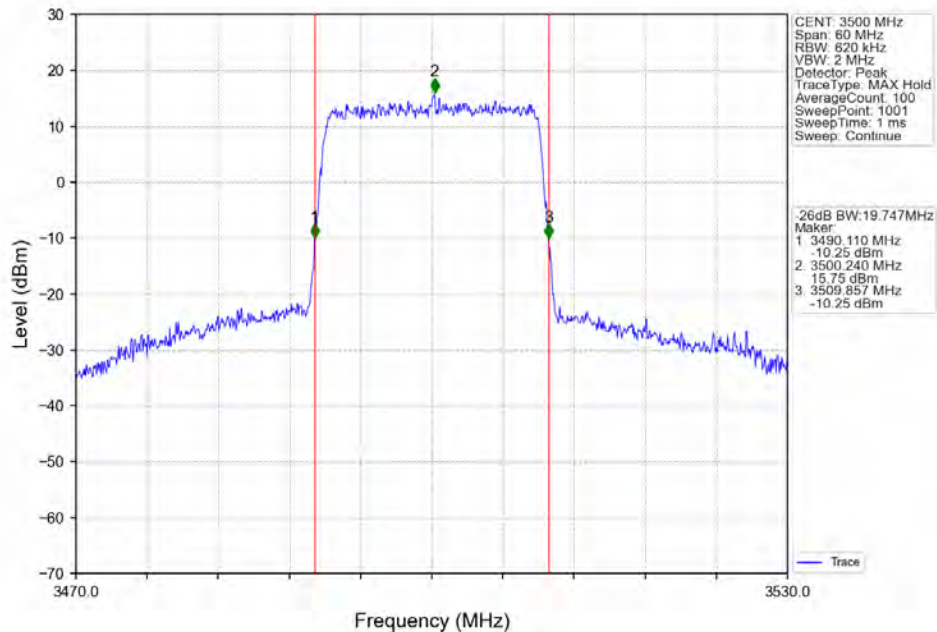
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Report No.: SUCR240500014801

Rev.: 01

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Band42a 20MHz 16QAM MCH 3500MHz RB 100 0 NTN



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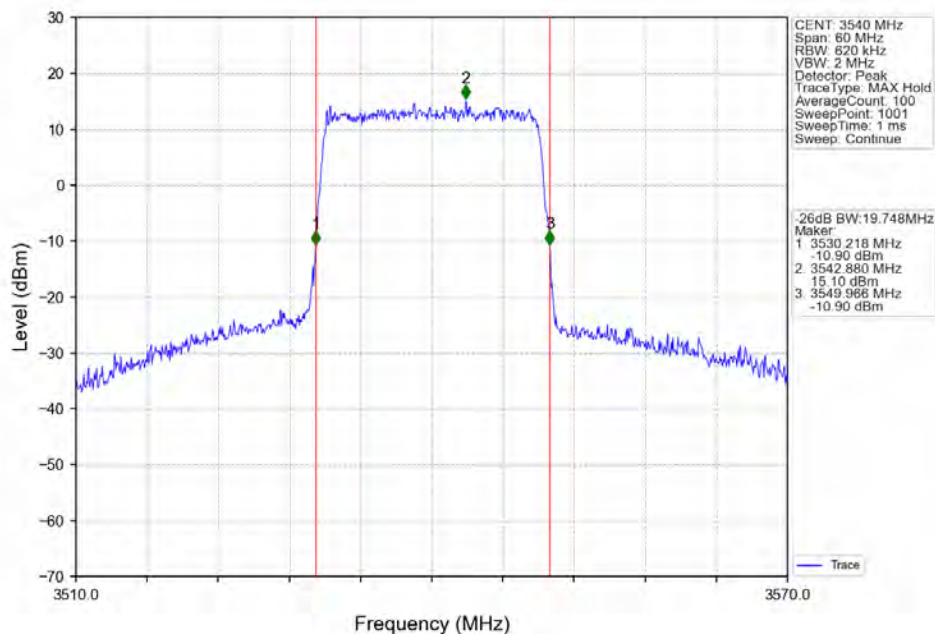
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Rev.: 01

Page: 57 of 144



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Report No.: SUCR240500014801
 Rev.: 01
 Page: 58 of 144

4. Peak-Average Ratio

4.1 B42a_5MHz

4.1.1 Test Result

Band: 42a / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	3452.5	25	0	7.53	<=13	Pass
	3500	25	0	7.56	<=13	Pass
	3547.5	25	0	7.43	<=13	Pass
16QAM	3452.5	25	0	8.29	<=13	Pass
	3500	25	0	8.13	<=13	Pass
	3547.5	25	0	8.10	<=13	Pass



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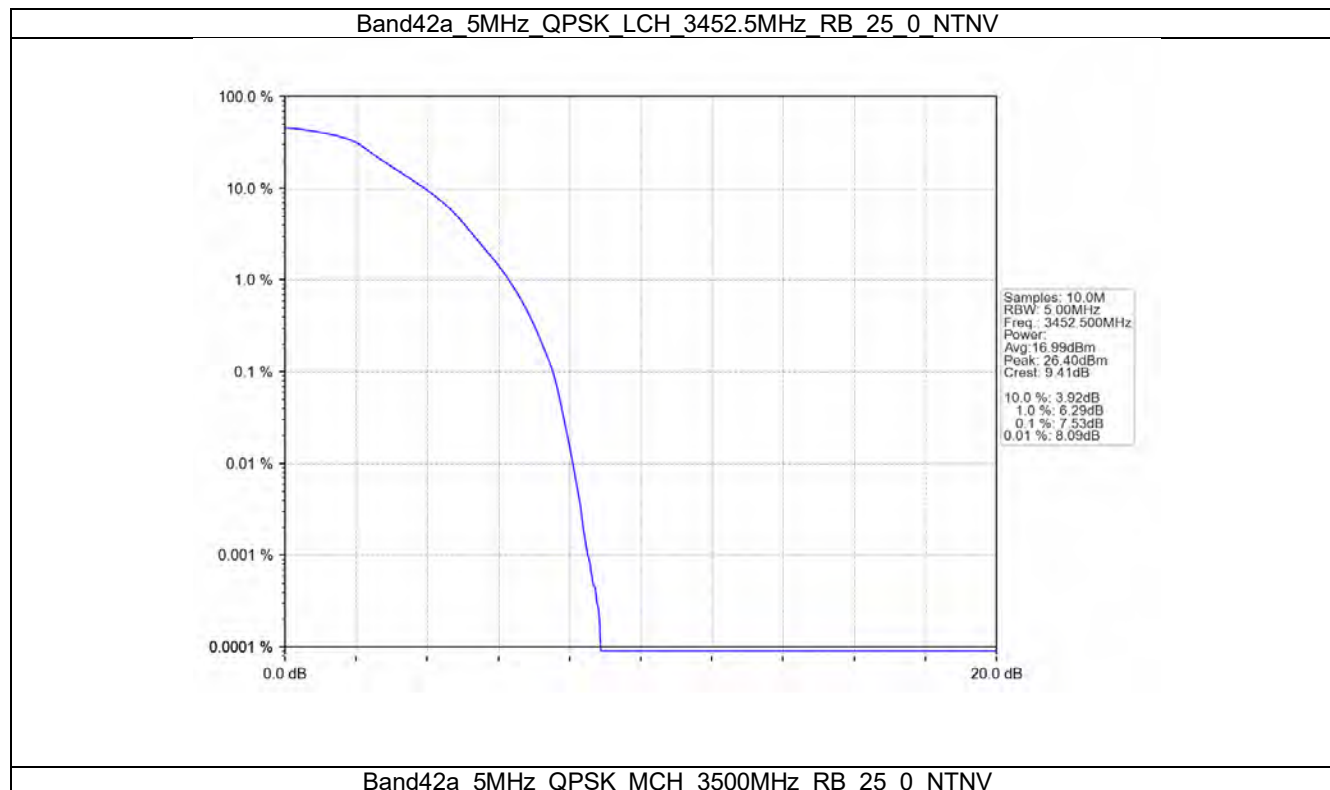
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Rev.: 01

Page: 59 of 144

4.1.2 Test Graph



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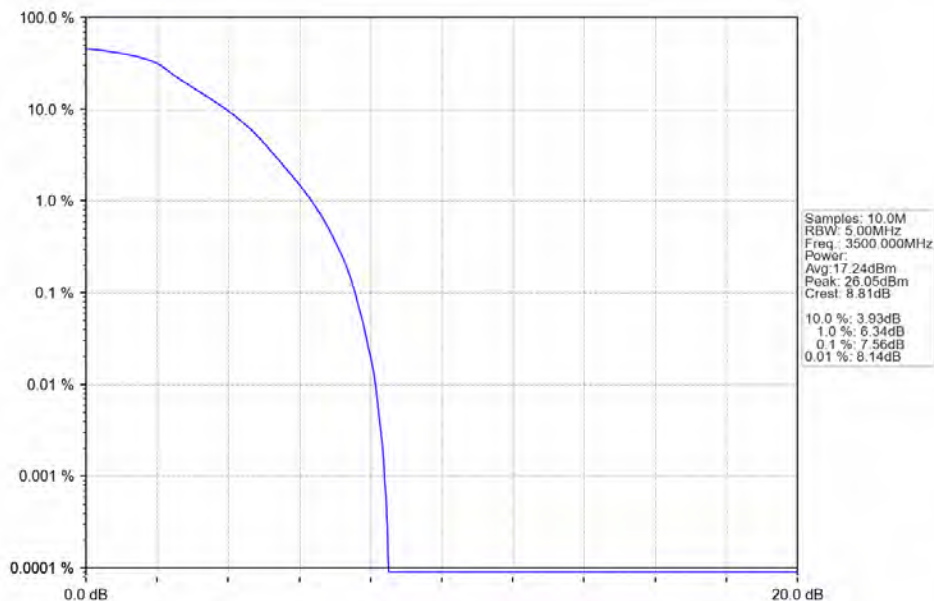
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Rev.: 01

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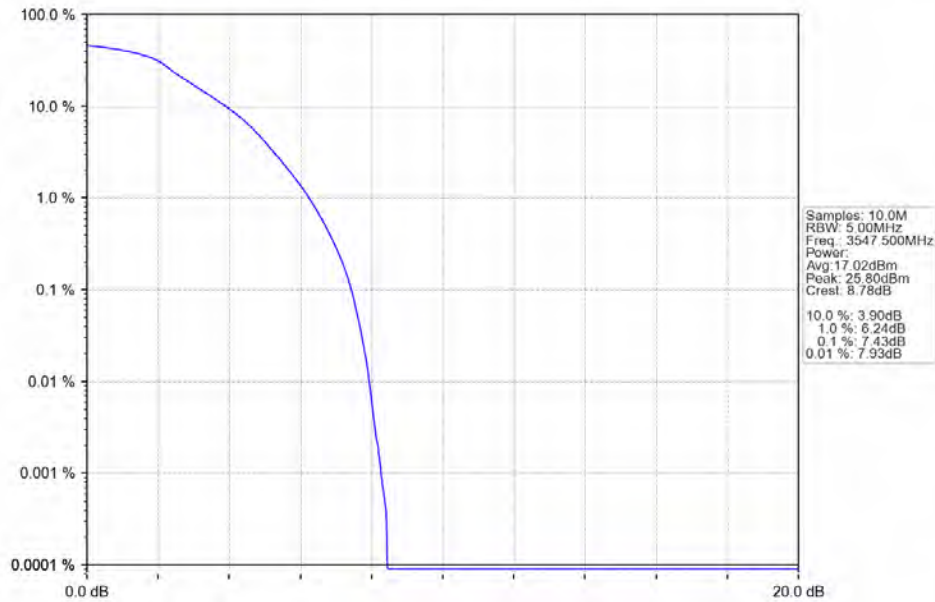
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Report No.: SUCR240500014801

Rev.: 01

Page: 61 of 144

Band42a_5MHz_QPSK_HCH_3547.5MHz_RB_25_0_NTNV



Band42a_5MHz_16QAM_LCH_3452.5MHz_RB_25_0_NTNV



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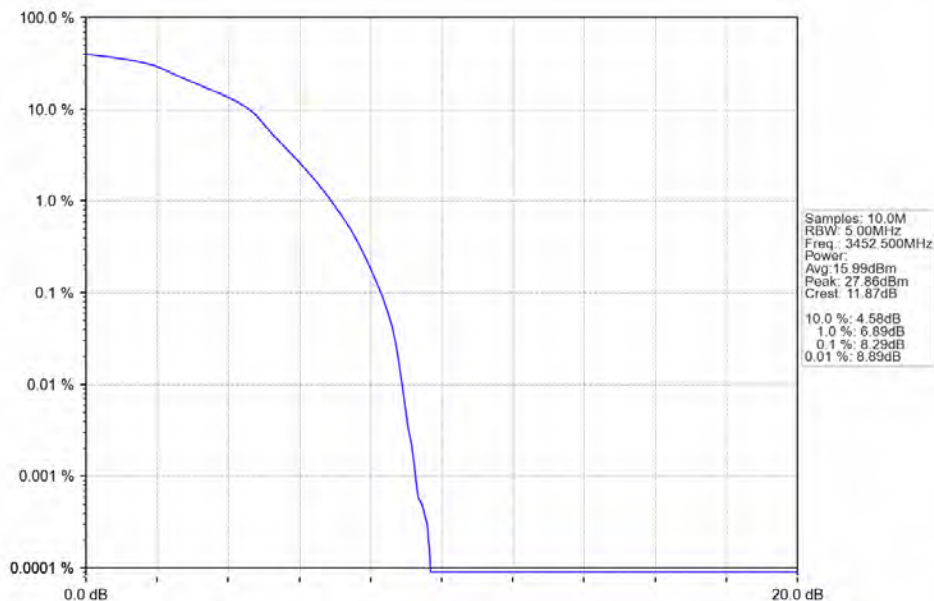
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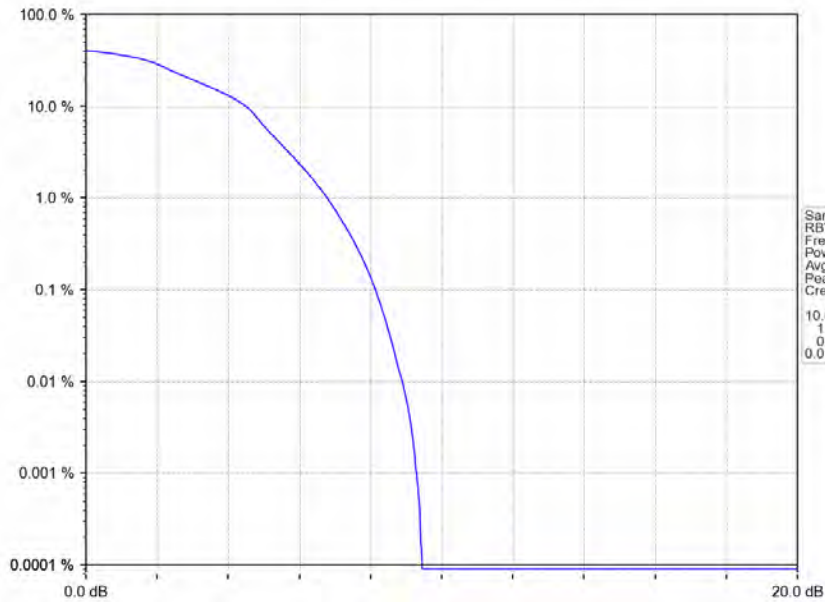
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Rev.: 01

Page: 63 of 144

Band42a_5MHz_16QAM_MCH_3500MHz_RB_25_0_NTNV



Band42a_5MHz_16QAM_HCH_3547.5MHz_RB_25_0_NTNV



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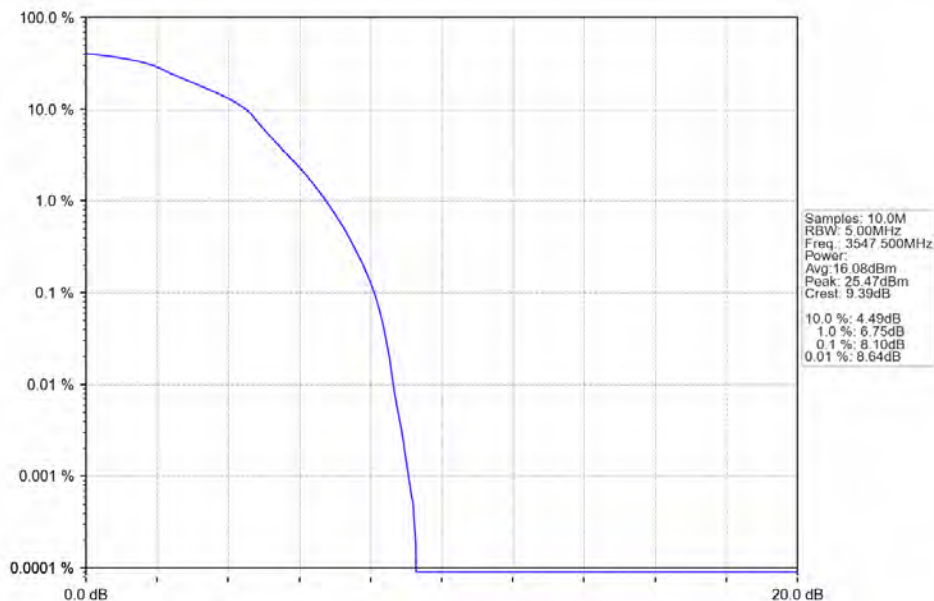
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 Rev.: 01
 Page: 65 of 144

4.2 B42a_10MHz

4.2.1 Test Result

Band: 42a / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	3455	50	0	7.34	<=13	Pass
	3500	50	0	7.49	<=13	Pass
	3545	50	0	7.41	<=13	Pass
16QAM	3455	50	0	8.17	<=13	Pass
	3500	50	0	8.23	<=13	Pass
	3545	50	0	8.32	<=13	Pass



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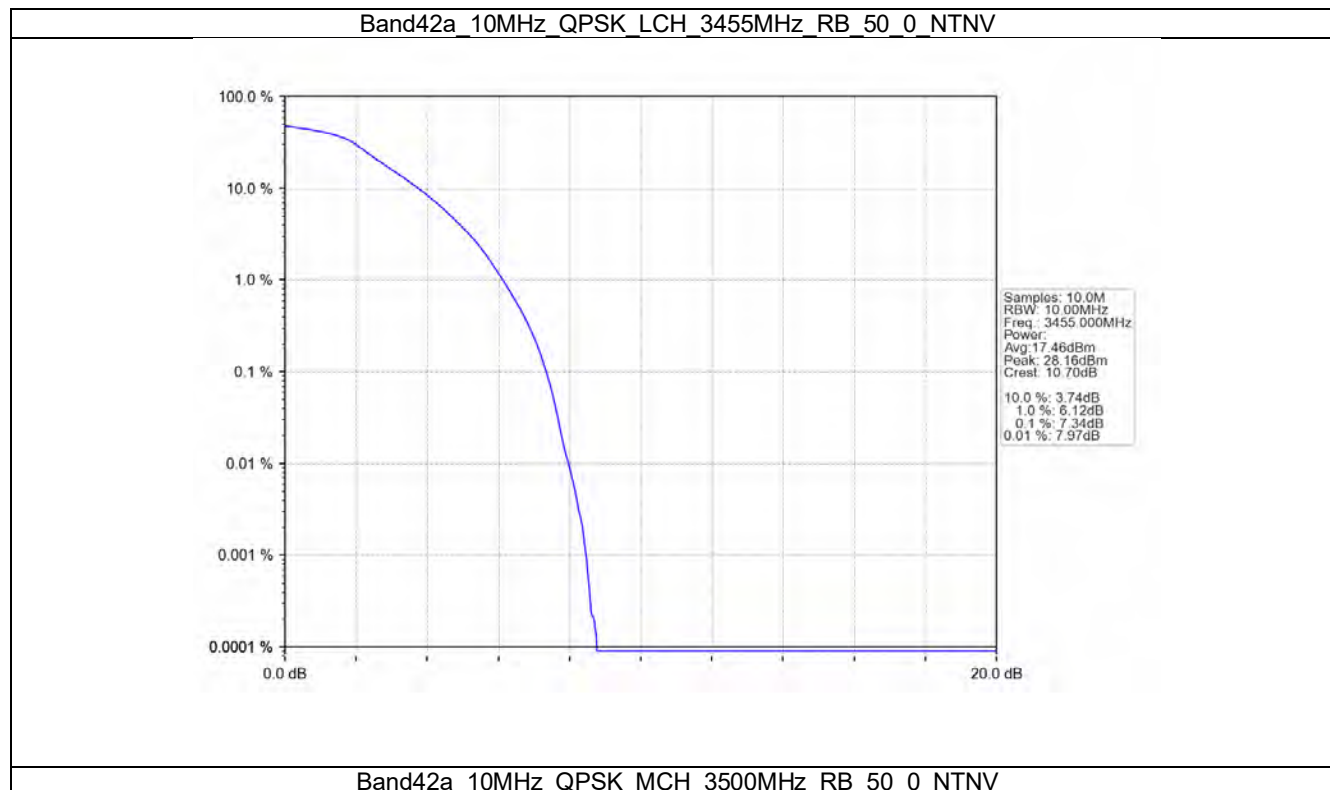
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Rev.: 01

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4.2.2 Test Graph



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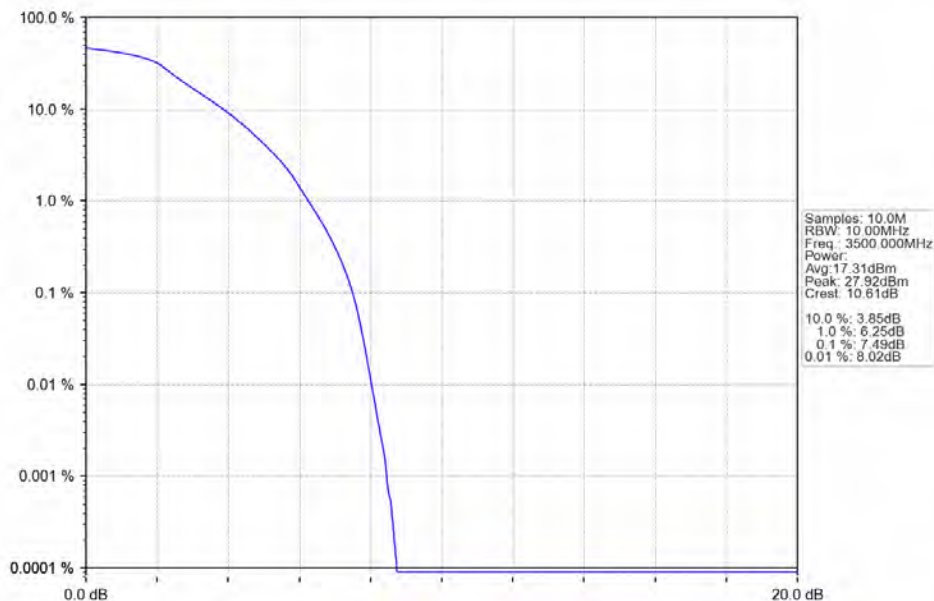
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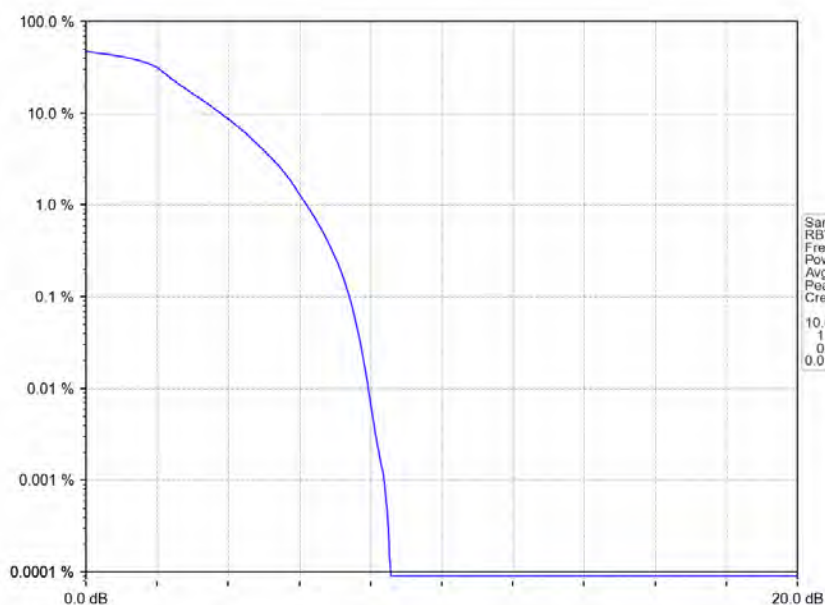
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Report No.: SUCR240500014801

Rev.: 01

Page: 68 of 144

Band42a_10MHz_QPSK_HCH_3545MHz_RB_50_0_NTNV



Band42a_10MHz_16QAM_LCH_3545MHz_RB_50_0_NTNV



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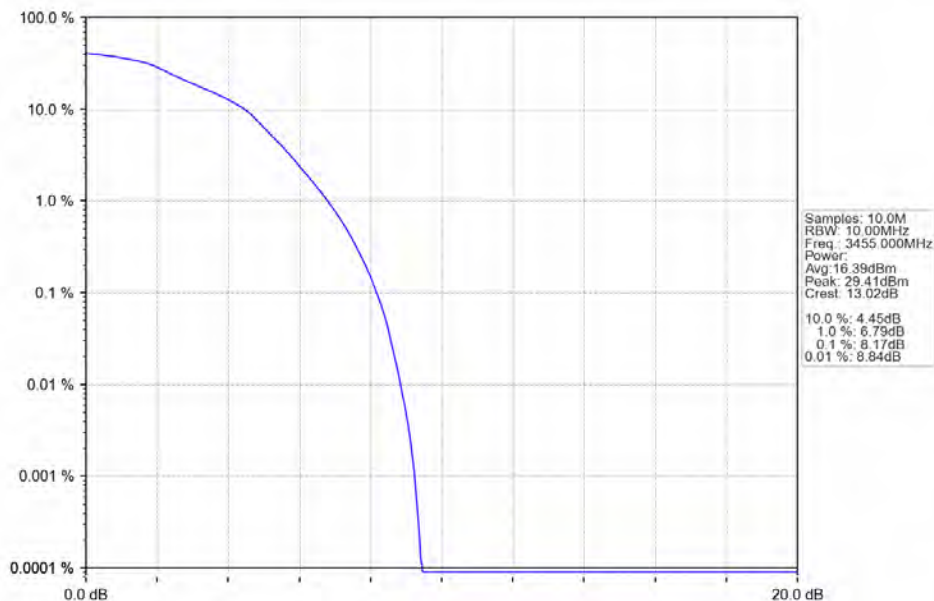
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Rev.: 01

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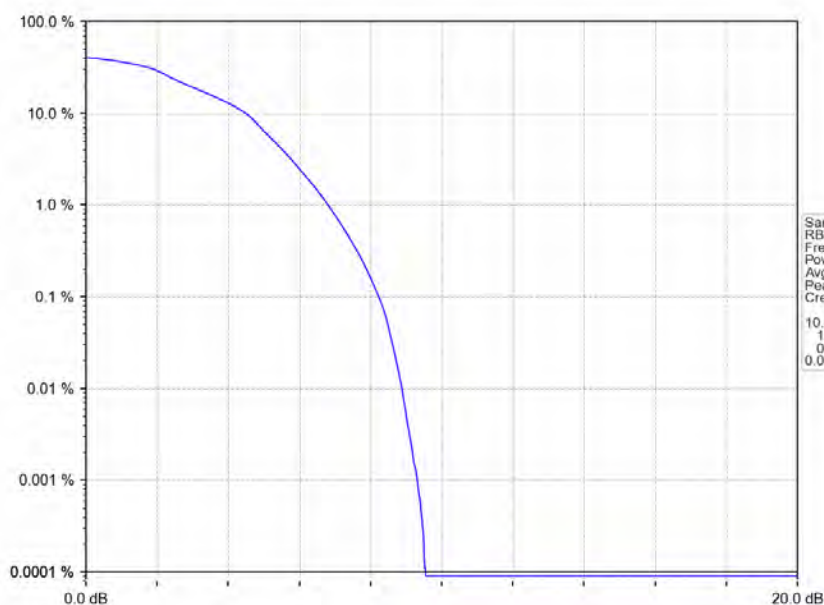
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Report No.: SUCR240500014801

Rev.: 01

Page: 70 of 144

Band42a_10MHz_16QAM_MCH_3500MHz_RB_50_0_NTNV



Band42a_10MHz_16QAM_HCH_3545MHz_RB_50_0_NTNV



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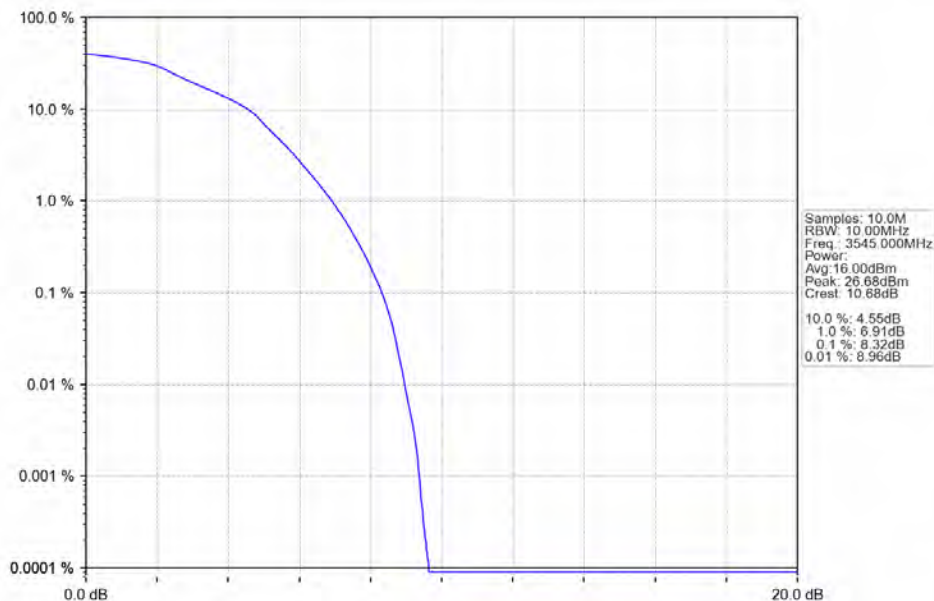
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Report No.: SUCR240500014801

Rev.: 01

Page: 71 of 144



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Report No.: SUCR240500014801
 Rev.: 01
 Page: 72 of 144

4.3 B42a_15MHz

4.3.1 Test Result

Band: 42a / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	3457.5	75	0	7.60	<=13	Pass
	3500	75	0	7.54	<=13	Pass
	3542.5	75	0	7.73	<=13	Pass
16QAM	3457.5	75	0	8.23	<=13	Pass
	3500	75	0	8.18	<=13	Pass
	3542.5	75	0	8.38	<=13	Pass



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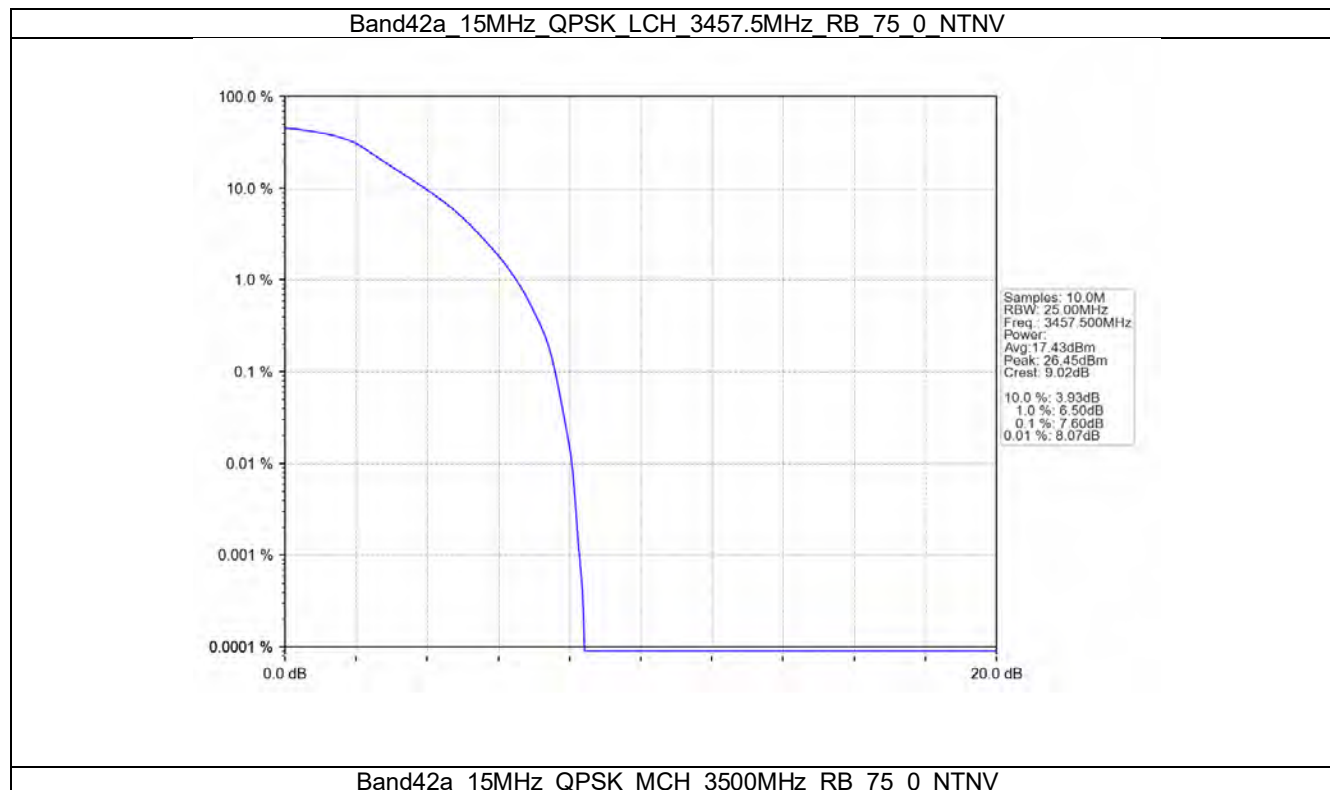
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Rev.: 01

Page: 73 of 144

4.3.2 Test Graph



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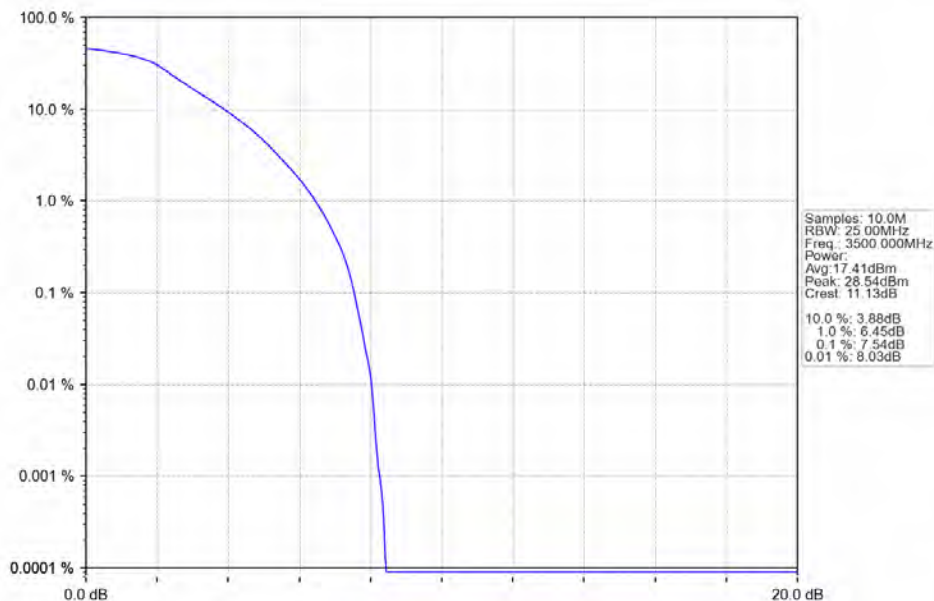
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Rev.: 01

Page: 74 of 144



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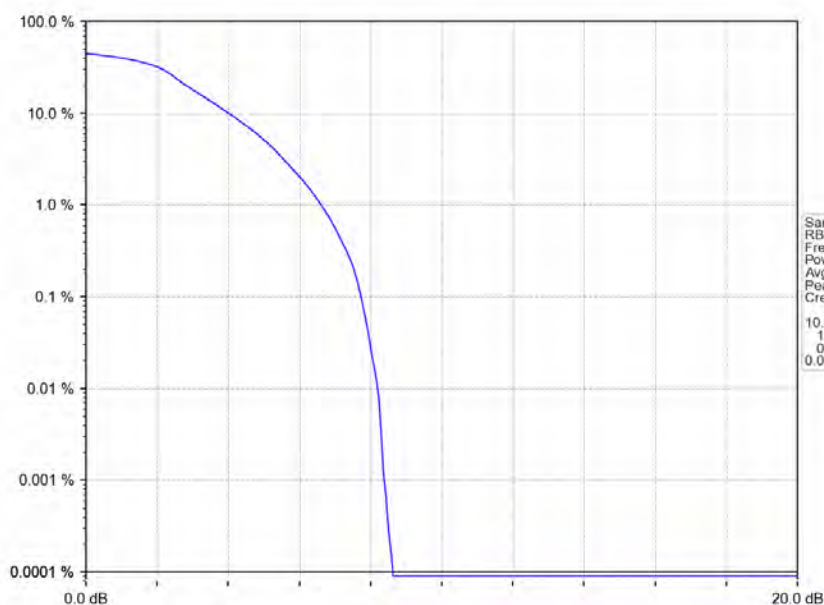
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Report No.: SUCR240500014801

Rev.: 01

Page: 75 of 144

Band42a_15MHz_QPSK_HCH_3542.5MHz_RB_75_0_NTNV



Band42a_15MHz_16QAM_LCH_3457.5MHz_RB_75_0_NTNV



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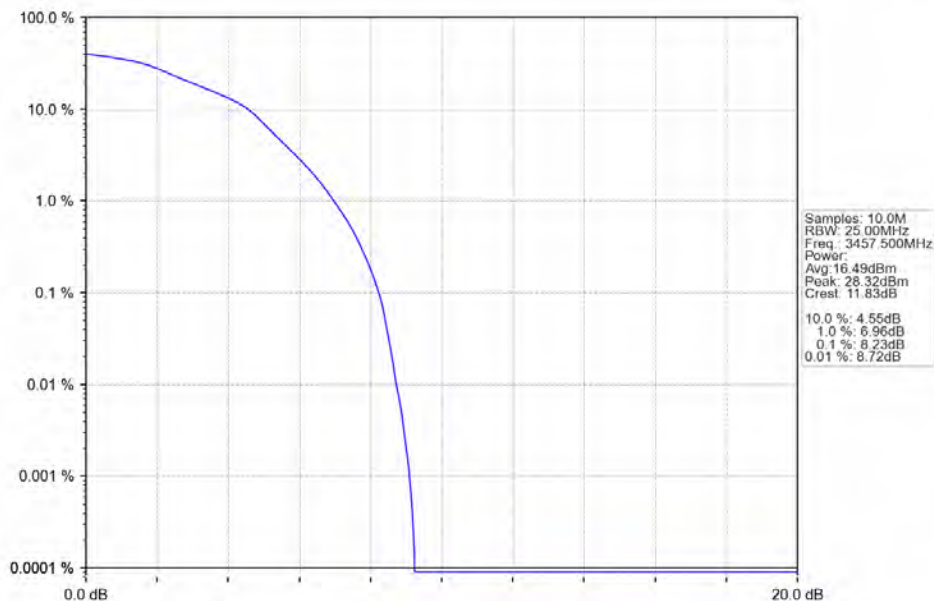
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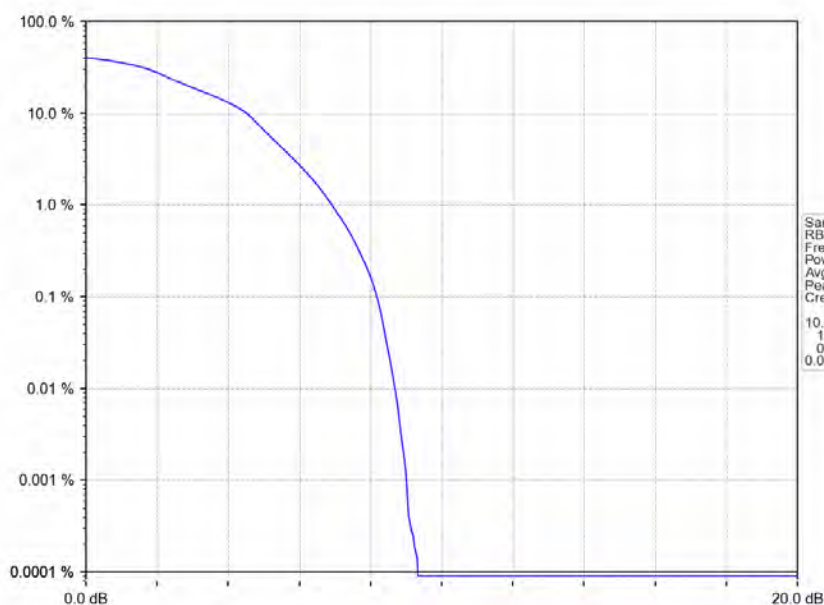
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Rev.: 01

Page: 77 of 144

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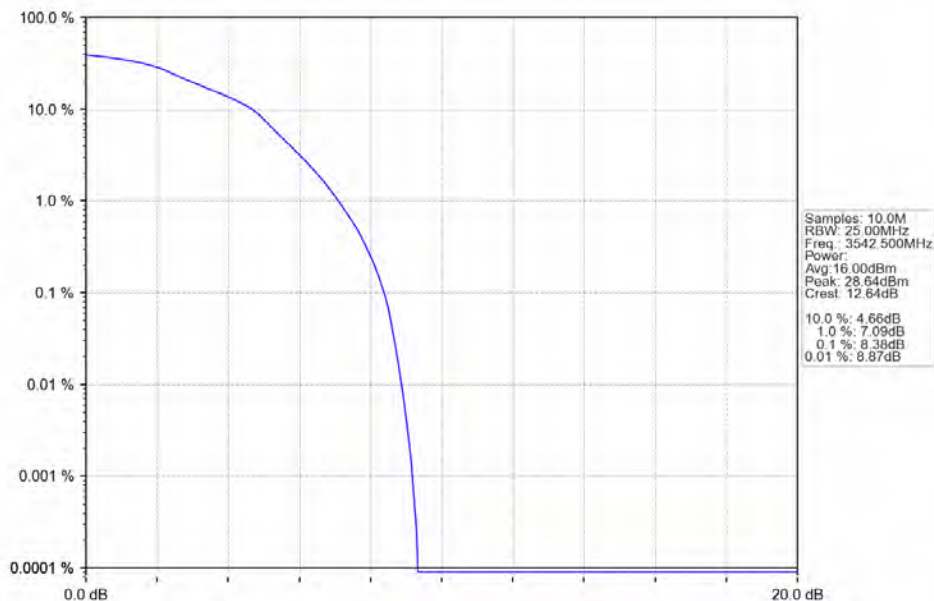
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Report No.: SUCR240500014801
 Rev.: 01
 Page: 79 of 144

4.4 B42a_20MHz

4.4.1 Test Result

Band: 42a / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	3460	100	0	7.30	<=13	Pass
	3500	100	0	7.19	<=13	Pass
	3540	100	0	7.47	<=13	Pass
16QAM	3460	100	0	8.30	<=13	Pass
	3500	100	0	8.12	<=13	Pass
	3540	100	0	8.07	<=13	Pass



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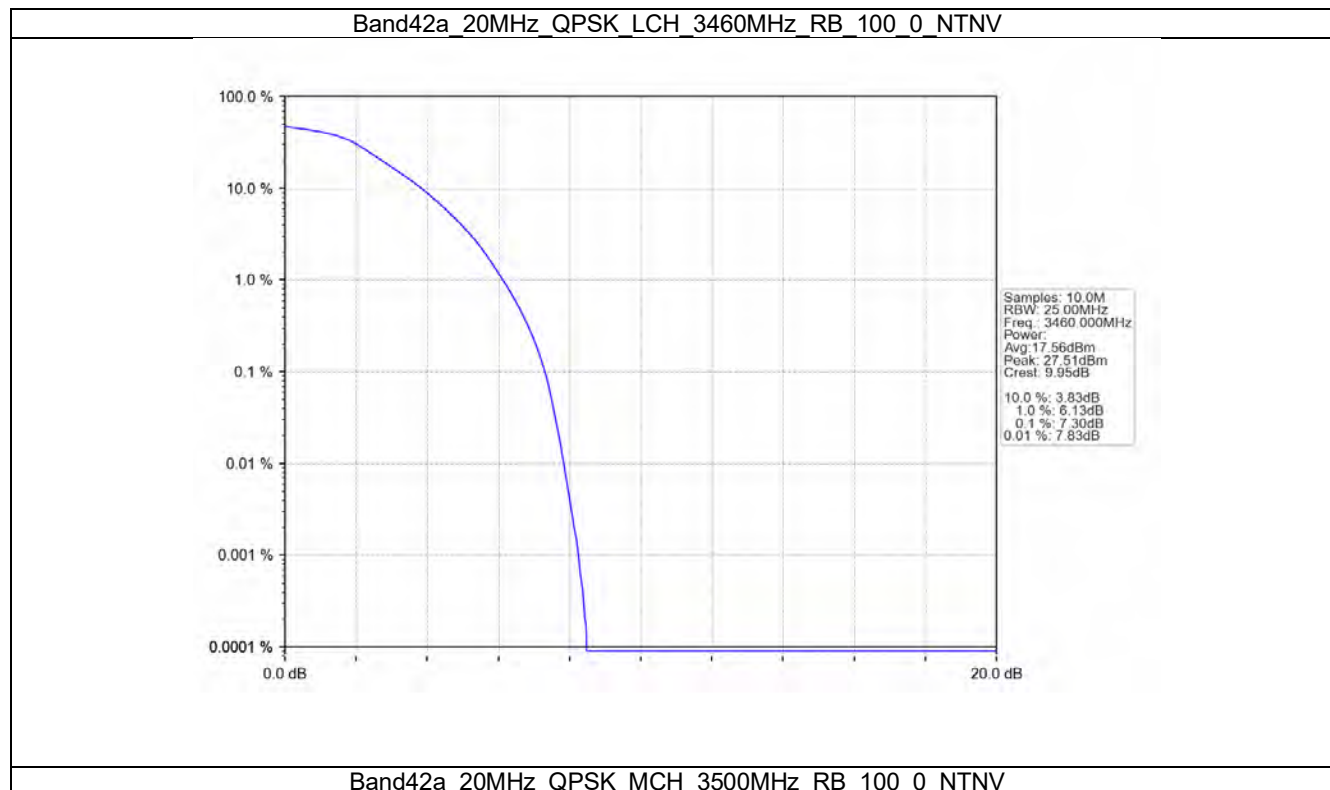
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Rev.: 01

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4.4.2 Test Graph



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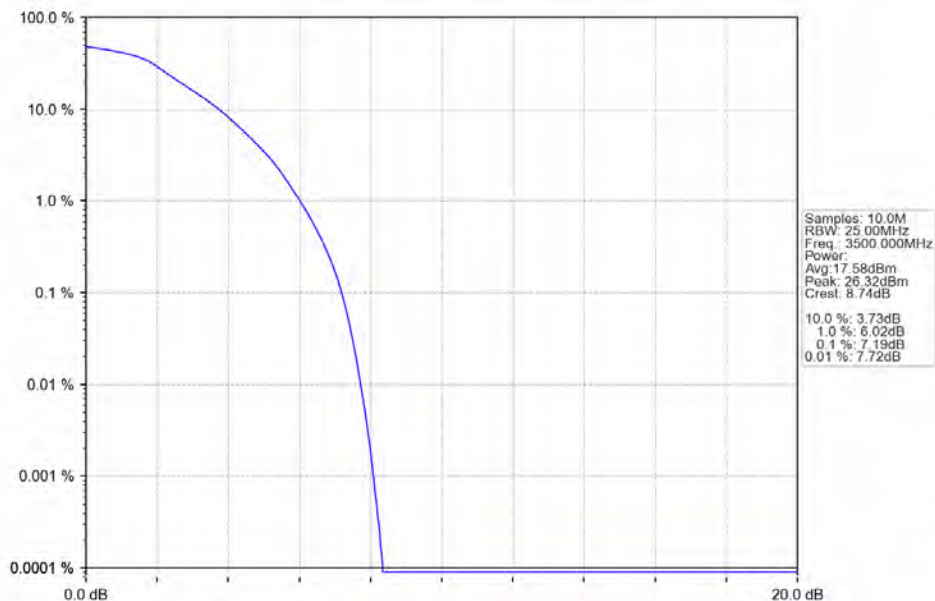
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Rev.: 01

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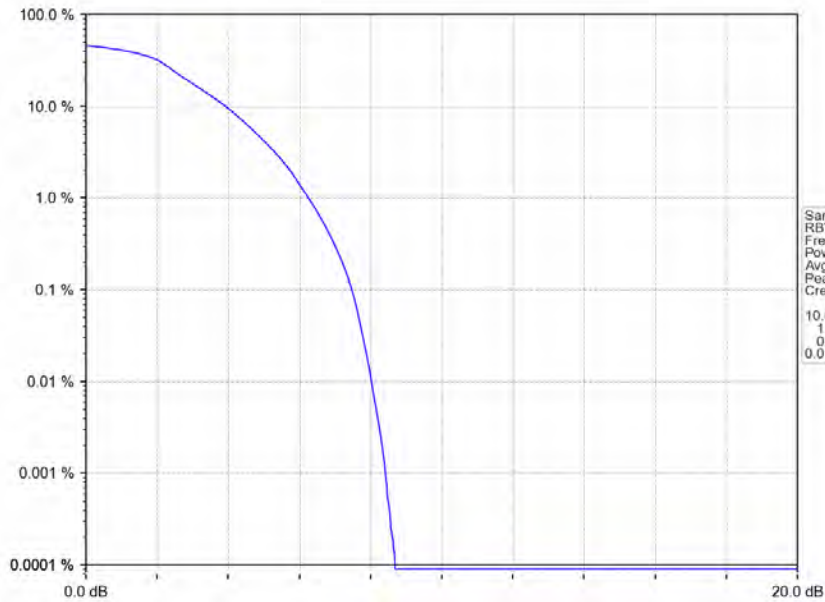
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Report No.: SUCR240500014801

Rev.: 01

Page: 82 of 144

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Band42a_20MHz_16QAM_LCH_3460MHz_RB_100_0_NTNV



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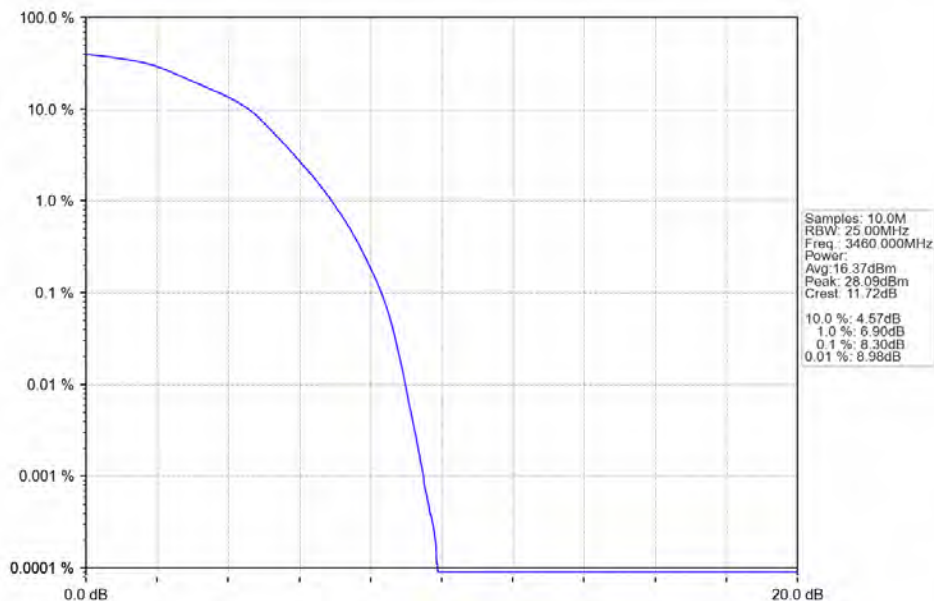
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Rev.: 01

Page: 83 of 144



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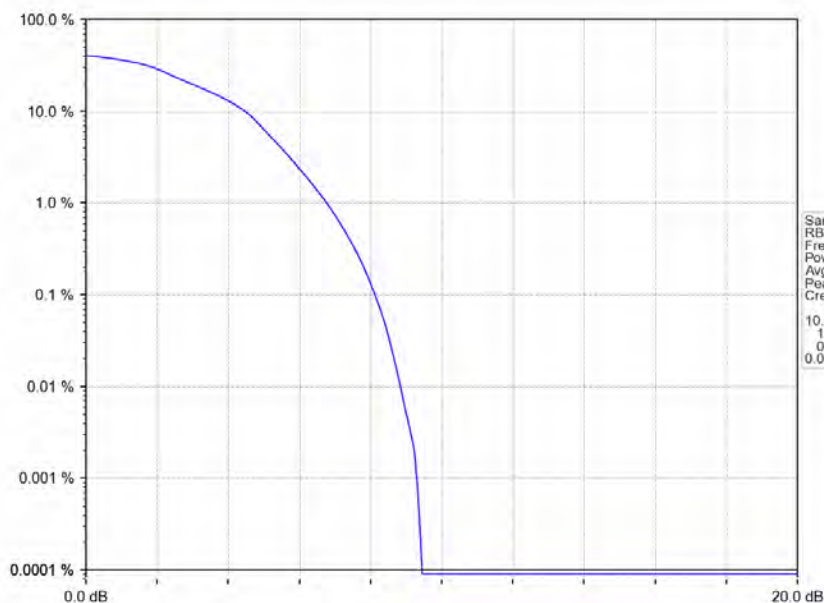
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Report No.: SUCR240500014801

Rev.: 01

Page: 84 of 144

Band42a 20MHz 16QAM MCH 3500MHz RB 100 0 NTN



Band42a 20MHz 16QAM HCH 3540MHz RB 100 0 NTN



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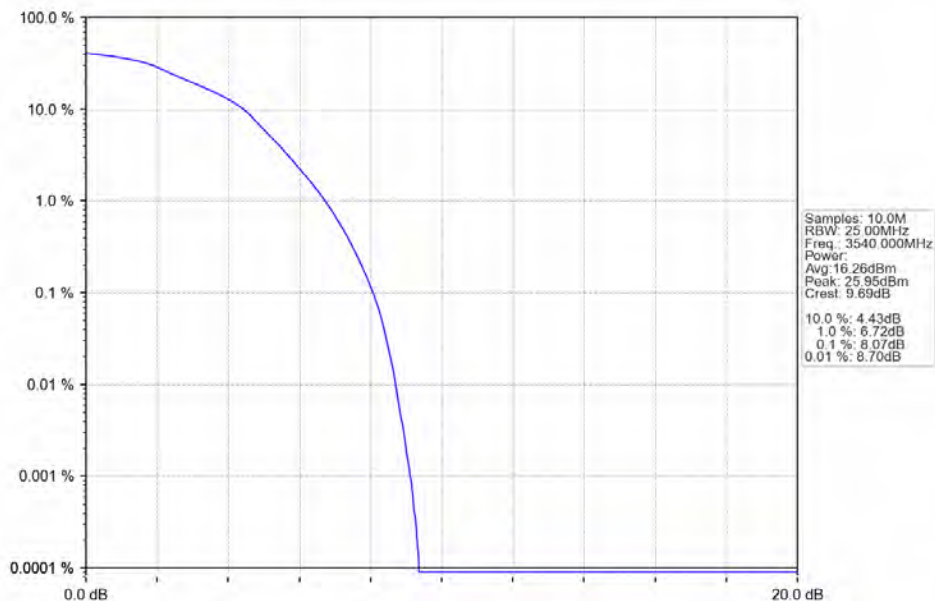
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Rev.: 01

Page: 85 of 144



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Report No.: SUCR240500014801
 Rev.: 01
 Page: 86 of 144

5. Spurious Emission & Band Edge

5.1 B42a_5MHz

5.1.1 Test Result

Band: 42a / Bandwidth: 5MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	3452.5	1	0	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass
	3500	1	0	Refer To Test Graph	Pass
	3547.5	1	0	Refer To Test Graph	Pass
			24	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass



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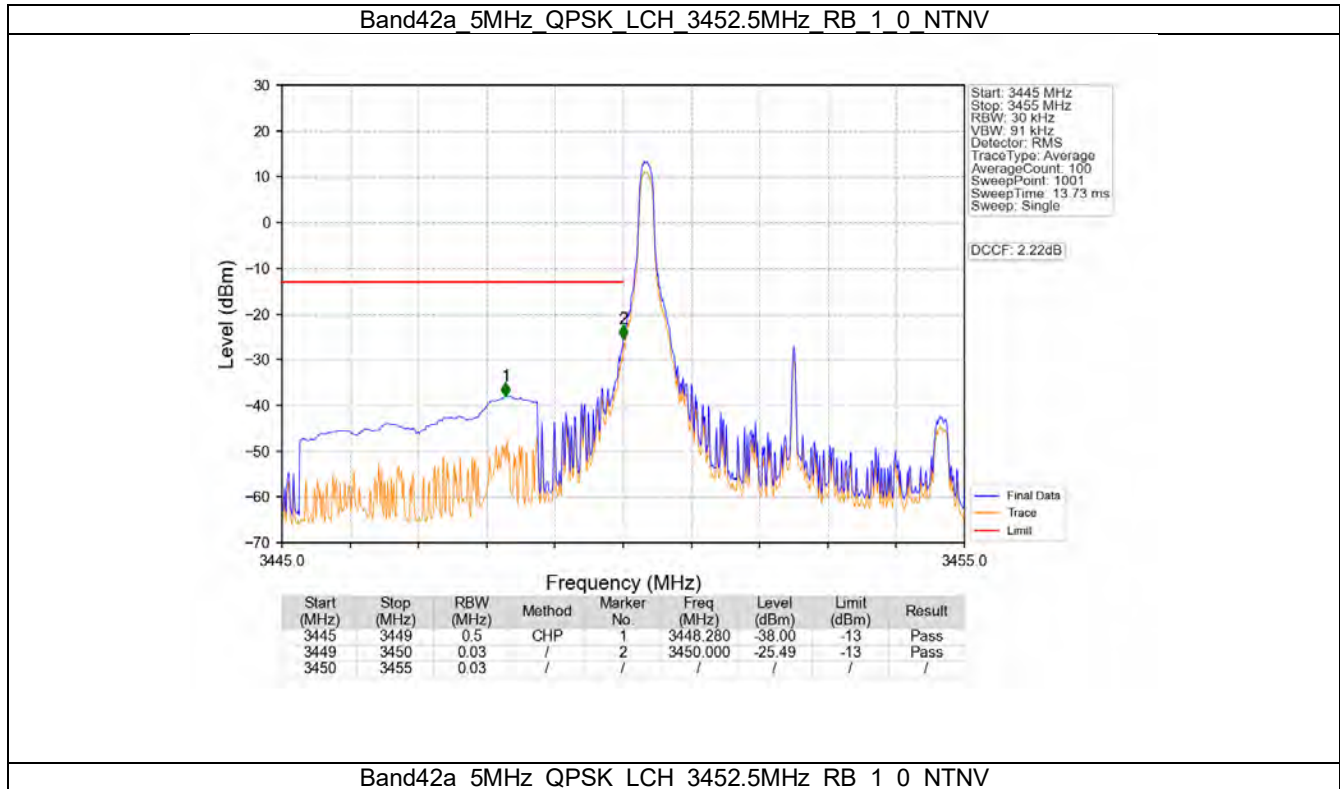
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Rev.: 01

Page: 87 of 144

5.1.2 Test Graph



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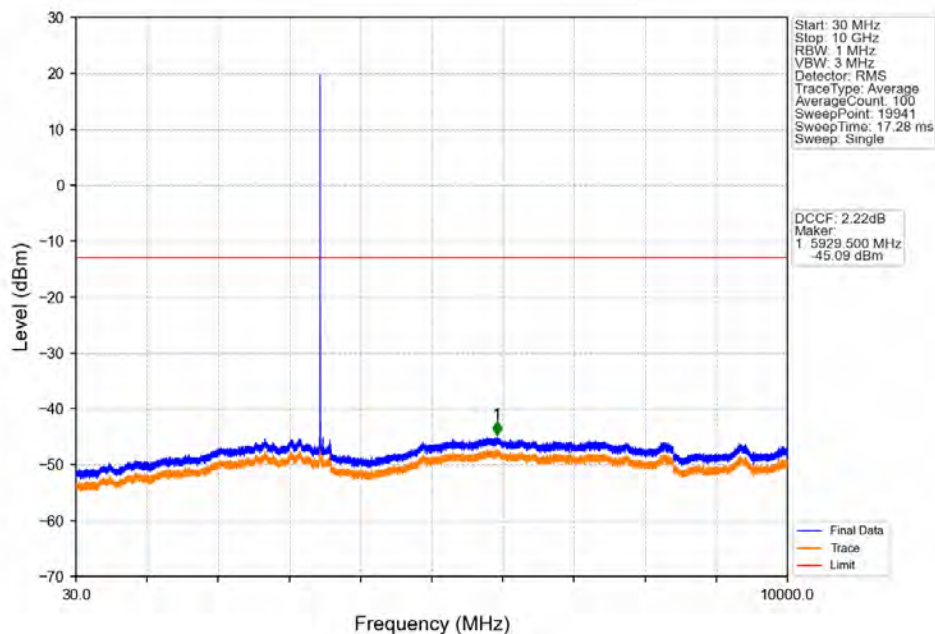
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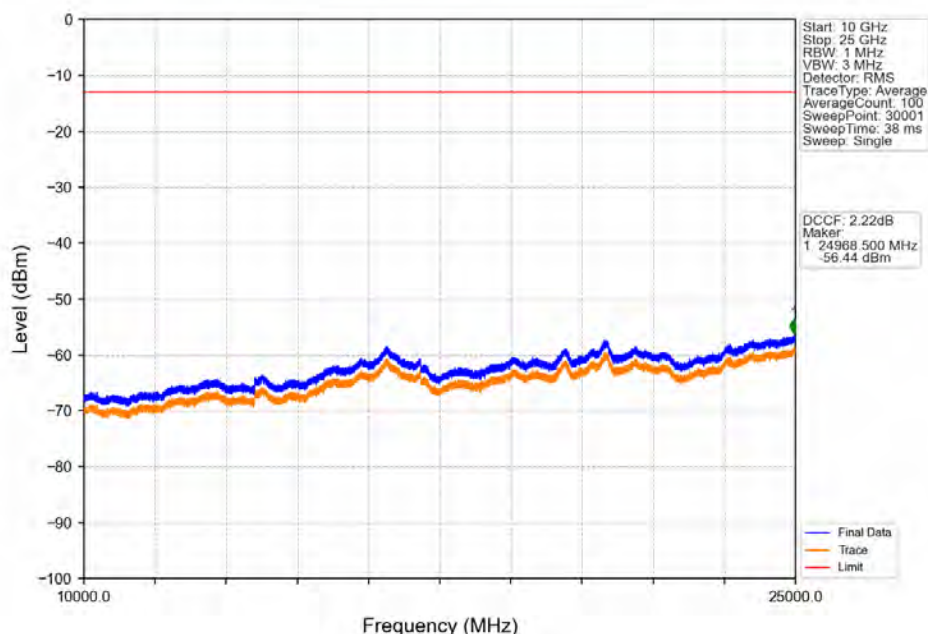
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Report No.: SUCR240500014801

Rev.: 01

Page: 89 of 144

Band42a_5MHz_QPSK_LCH_3452.5MHz_RB_1_0_NTNV



Band42a_5MHz_QPSK_LCH_3452.5MHz_RB_1_0_NTNV



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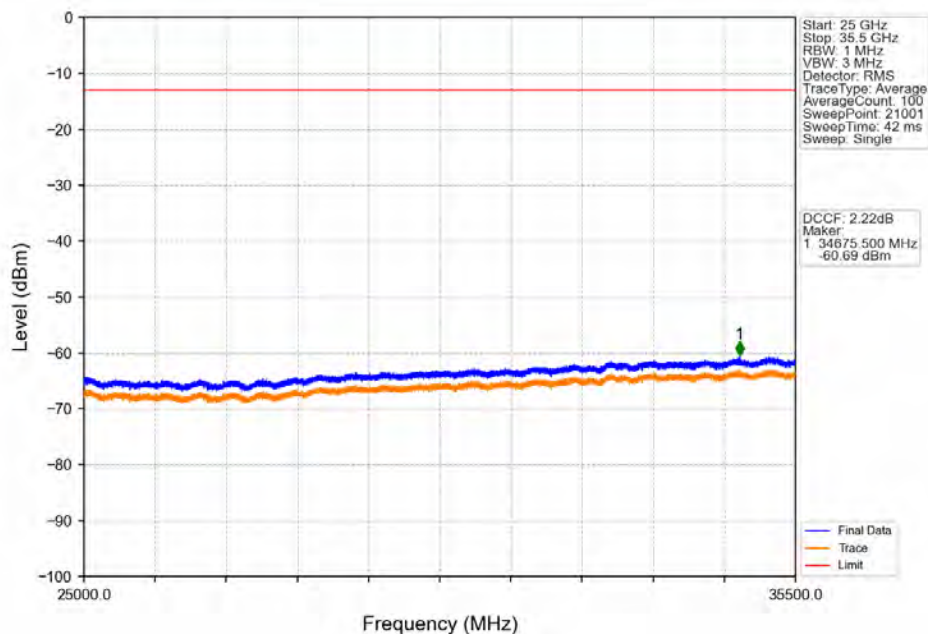
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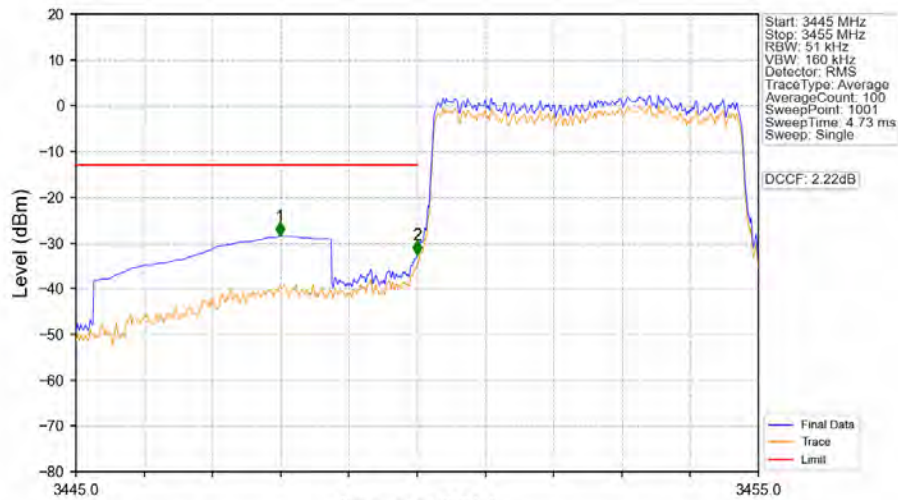
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Report No.: SUCR240500014801

Rev.: 01

Page: 91 of 144

Band42a_5MHz_QPSK_LCH_3452.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3445	3449	0.5	CHP	1	3447.990	-28.52	-13	Pass
3449	3450	0.051	/	2	3450.000	-32.61	-13	Pass
3450	3455	0.051	/	/	/	/	/	/

Band42a_5MHz_QPSK_MCH_3500MHz_RB_1_0_NTNV



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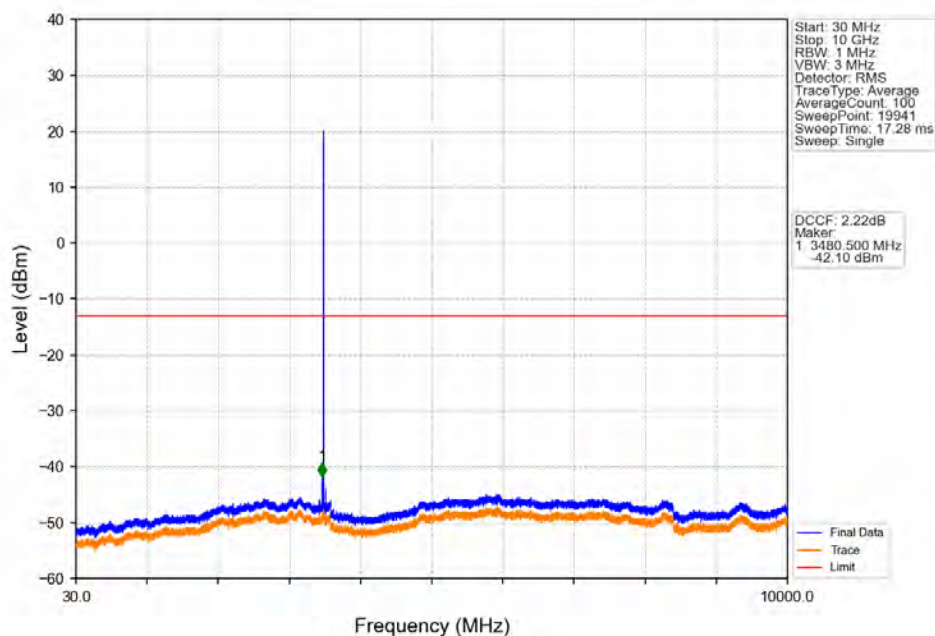
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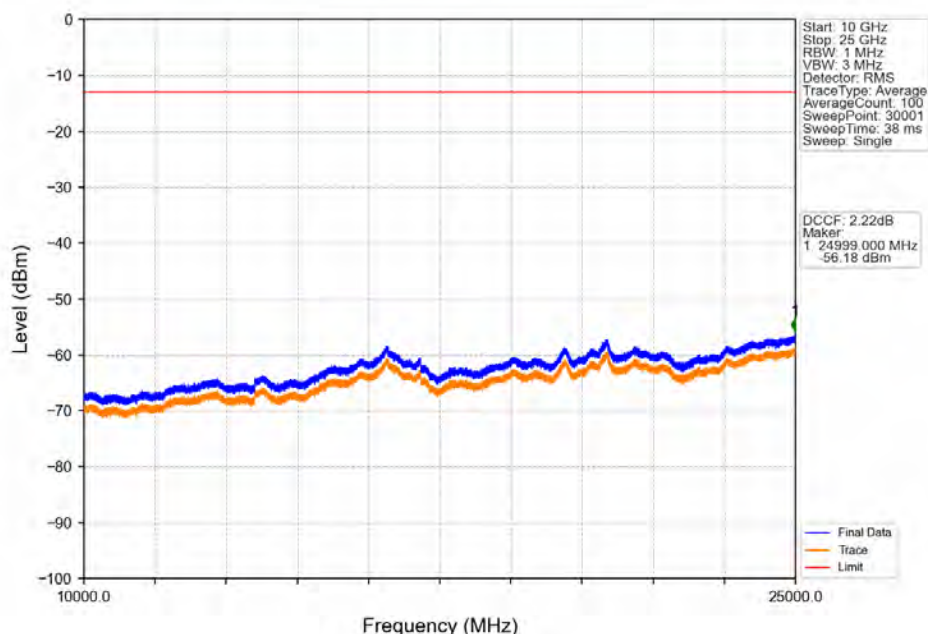
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Rev.: 01

Page: 93 of 144

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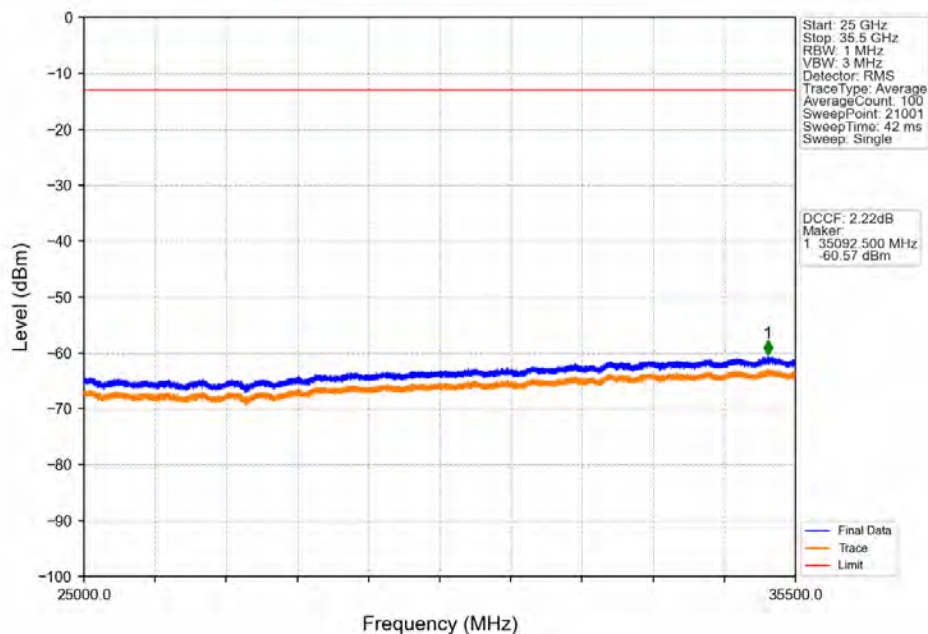
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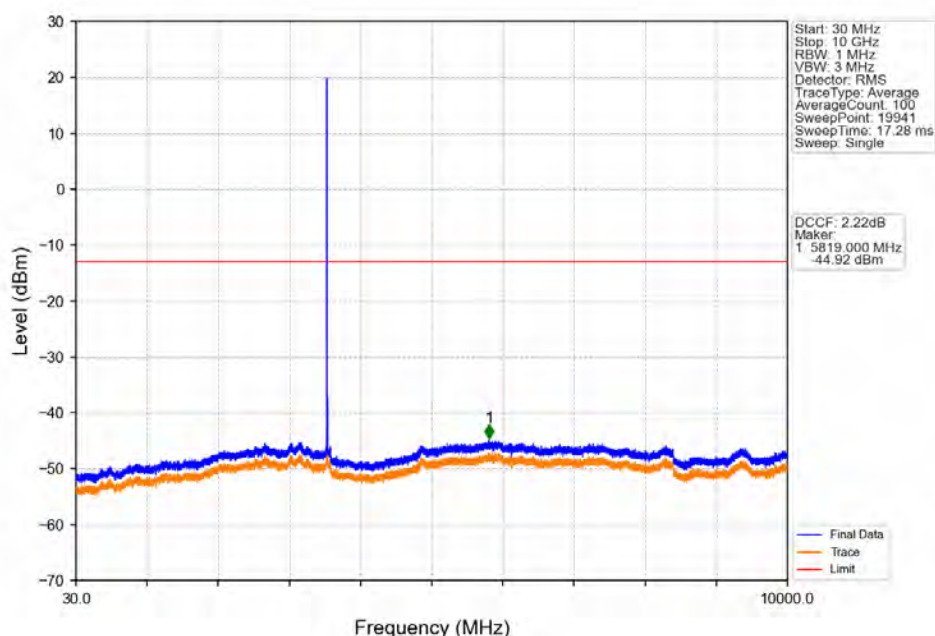
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Report No.: SUCR240500014801

Rev.: 01

Page: 95 of 144

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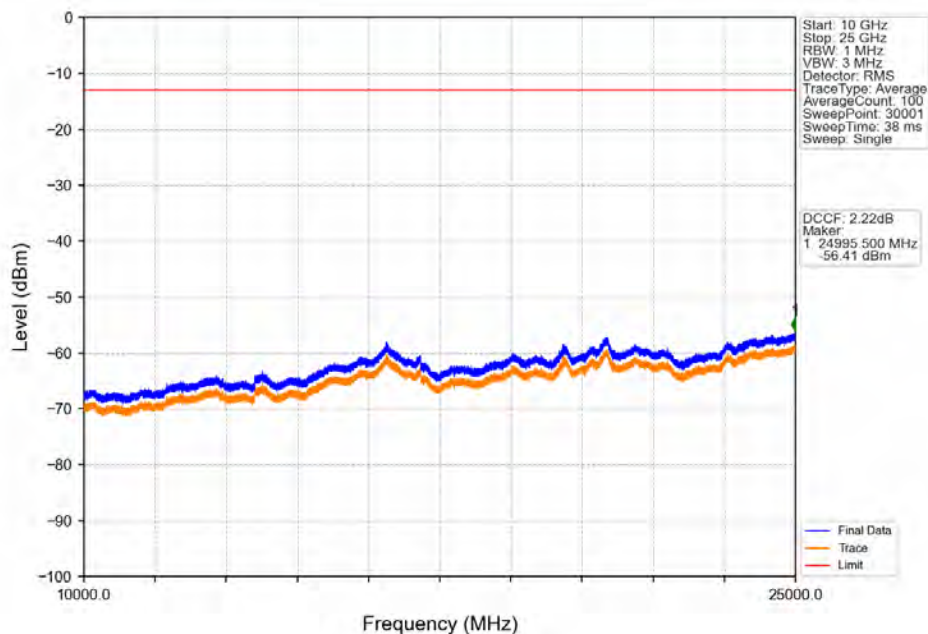
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Rev.: 01

Page: 96 of 144



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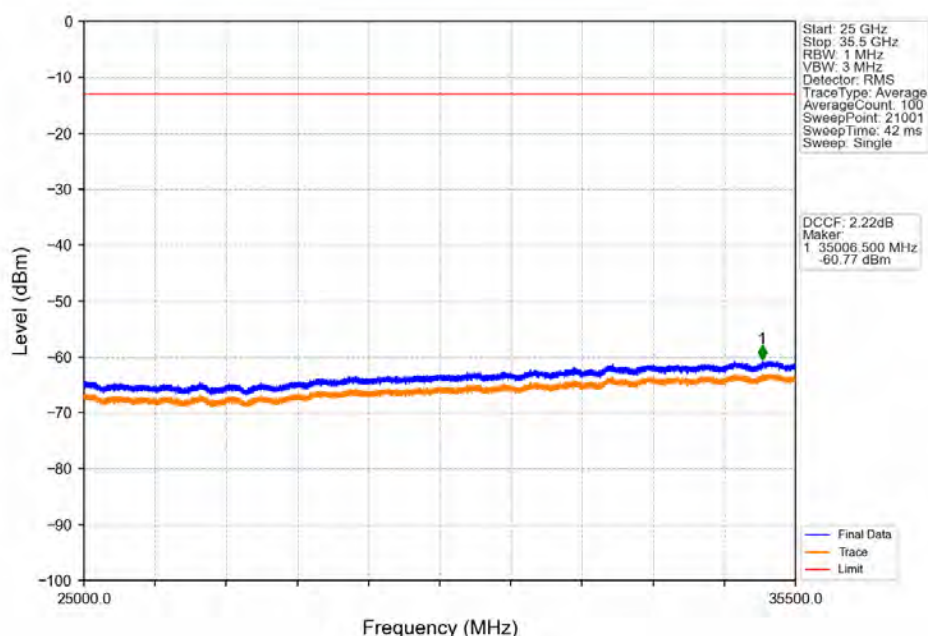
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Report No.: SUCR240500014801

Rev.: 01

Page: 97 of 144

Band42a_5MHz_QPSK_HCH_3547.5MHz_RB_1_0_NTNV



Band42a_5MHz_QPSK_HCH_3547.5MHz_RB_1_24_NTNV



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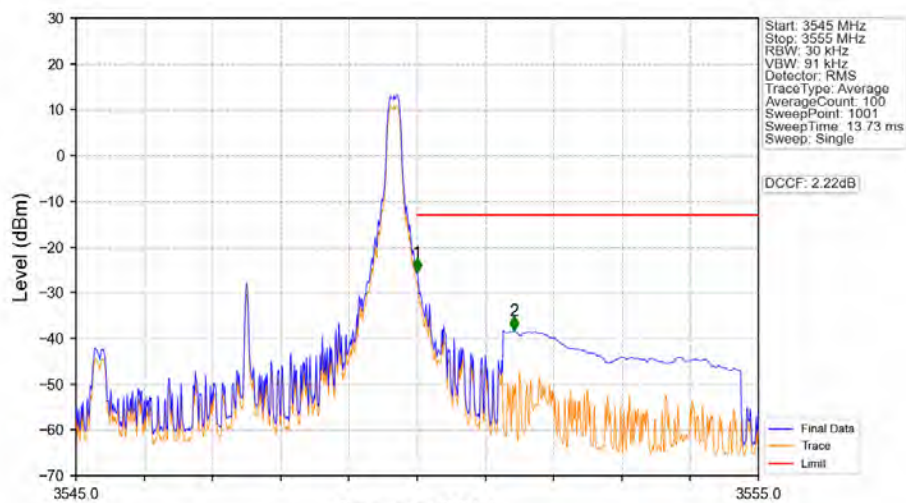
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Report No.: SUCR240500014801

Rev.: 01

Page: 98 of 144



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3545	3550	0.03	/	1	3550.000	-25.57	-13	Pass
3550	3551	0.03	/	2	3551.420	-38.28	-13	Pass
3551	3555	0.5	CHP					



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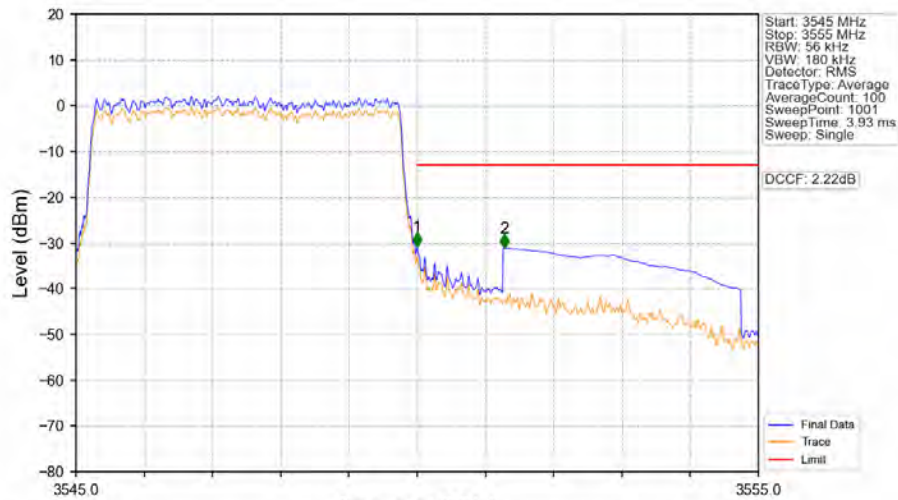
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Report No.: SUCR240500014801

Rev.: 01

Page: 99 of 144

Band42a_5MHz_QPSK_HCH_3547.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3545	3550	0.056	/	/	/	/	/	/
3550	3551	0.056	/	1	3550.000	-30.75	-13	Pass
3551	3555	0.5	CHP	2	3551.280	-31.21	-13	Pass



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Report No.: SUCR240500014801
 Rev.: 01
 Page: 100 of 144

5.2 B42a_10MHz

5.2.1 Test Result

Band: 42a / Bandwidth: 10MHz / NTV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	3455	1	0	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
	3500	1	0	Refer To Test Graph	Pass
	3545	1	0	Refer To Test Graph	Pass
			49	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass



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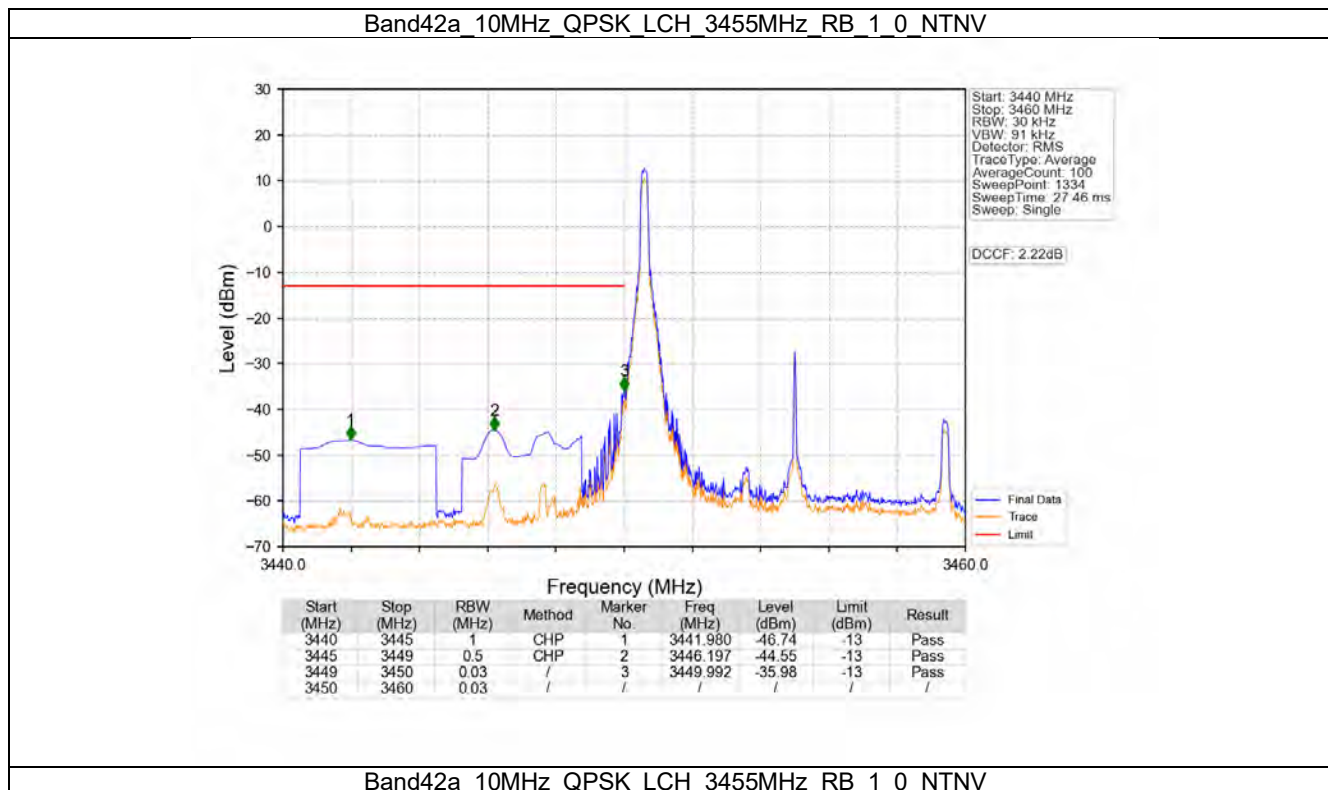
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Rev.: 01

Page: 101 of 144

5.2.2 Test Graph



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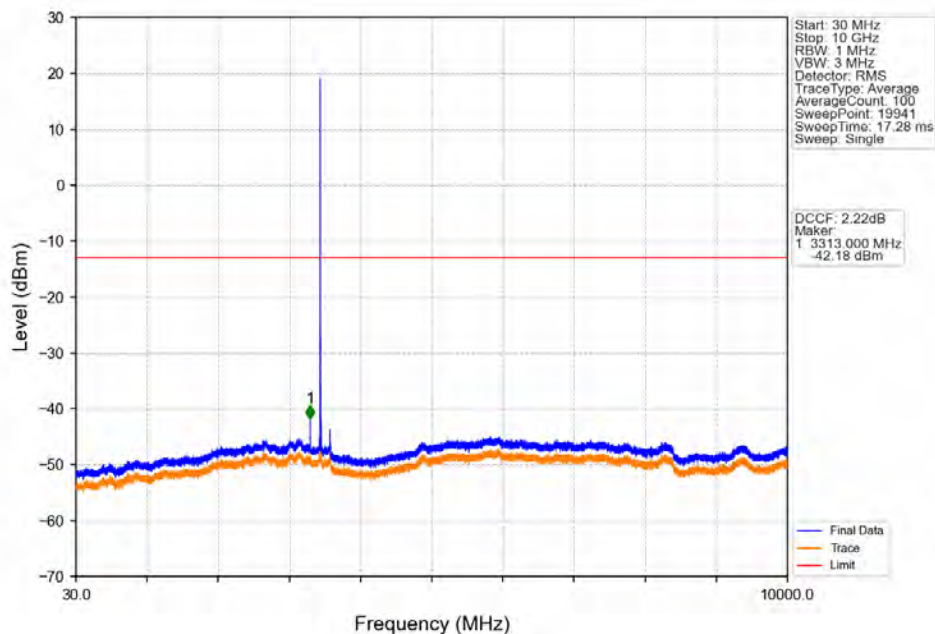
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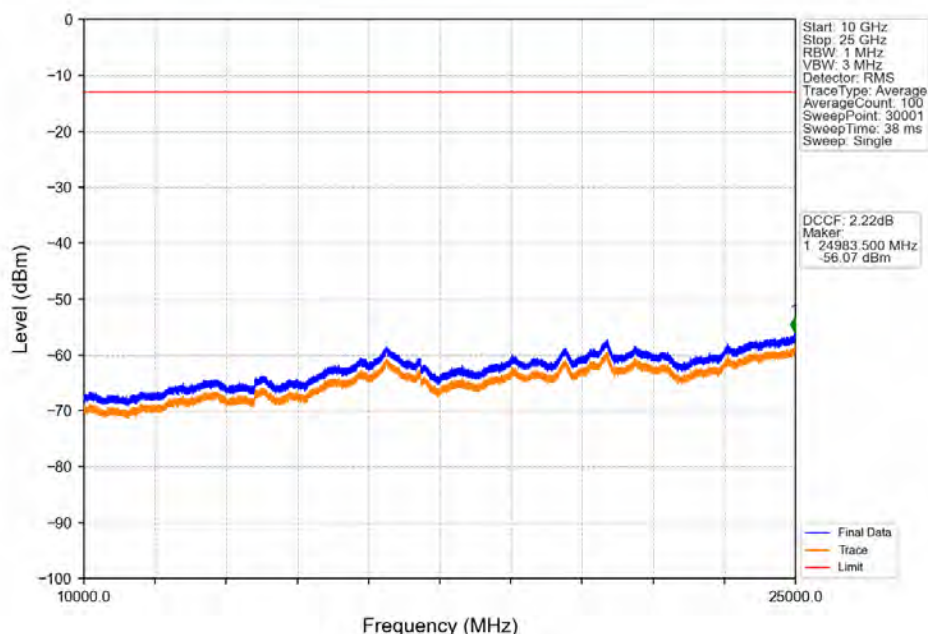
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Report No.: SUCR240500014801

Rev.: 01

Page: 103 of 144

Band42a_10MHz_QPSK_LCH_3455MHz_RB_1_0_NTNV



Band42a_10MHz_QPSK_LCH_3455MHz_RB_1_0_NTNV



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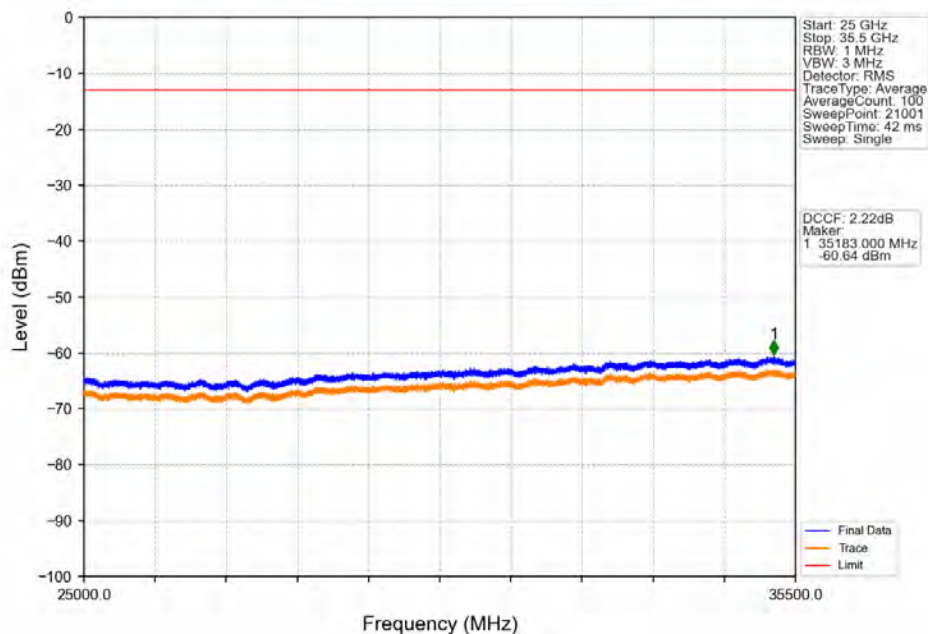
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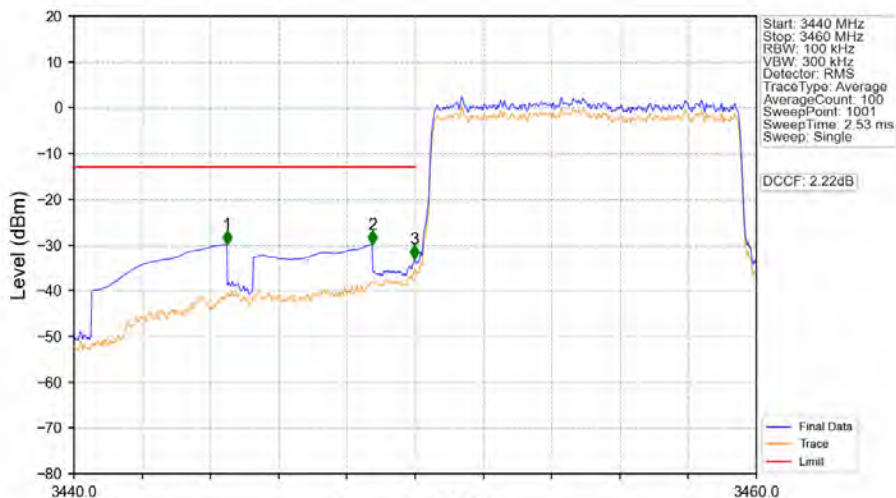
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Report No.: SUCR240500014801

Rev.: 01

Page: 105 of 144

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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3440	3445	1	CHP	1	3444.480	-29.86	-13	Pass
3445	3449	0.5	CHP	2	3448.740	-29.87	-13	Pass
3449	3450	0.1	/	3	3449.980	-33.04	-13	Pass
3450	3460	0.1	/	/	/	/	/	/

Band42a_10MHz_QPSK_MCH_3500MHz_RB_1_0_NTNV



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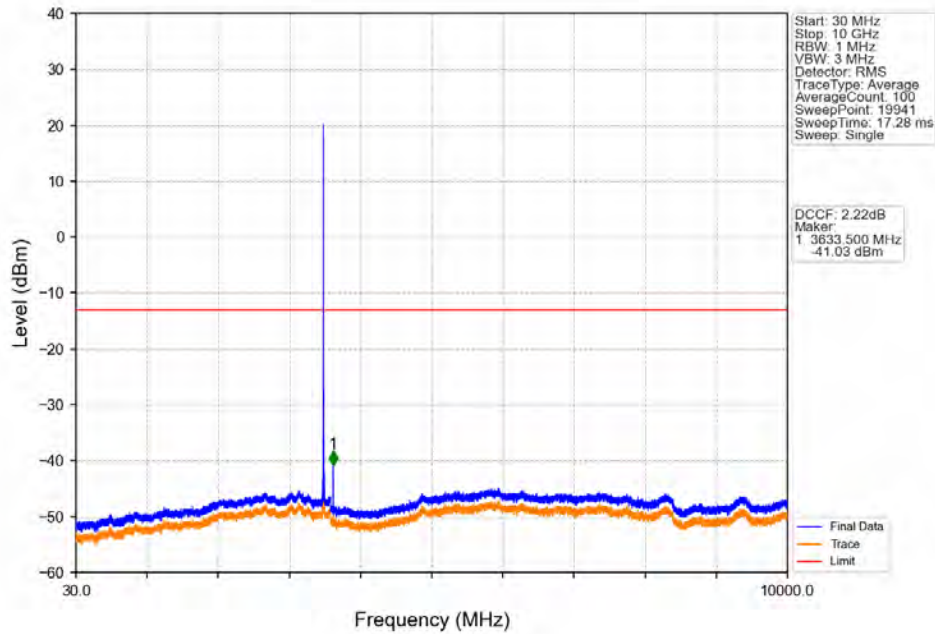
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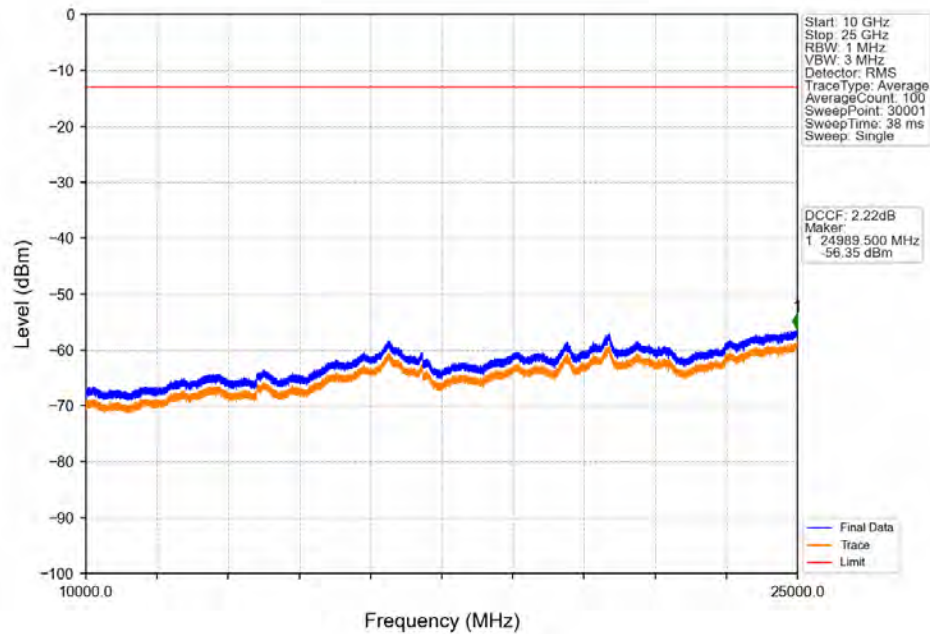
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Report No.: SUCR240500014801

Rev.: 01

Page: 107 of 144

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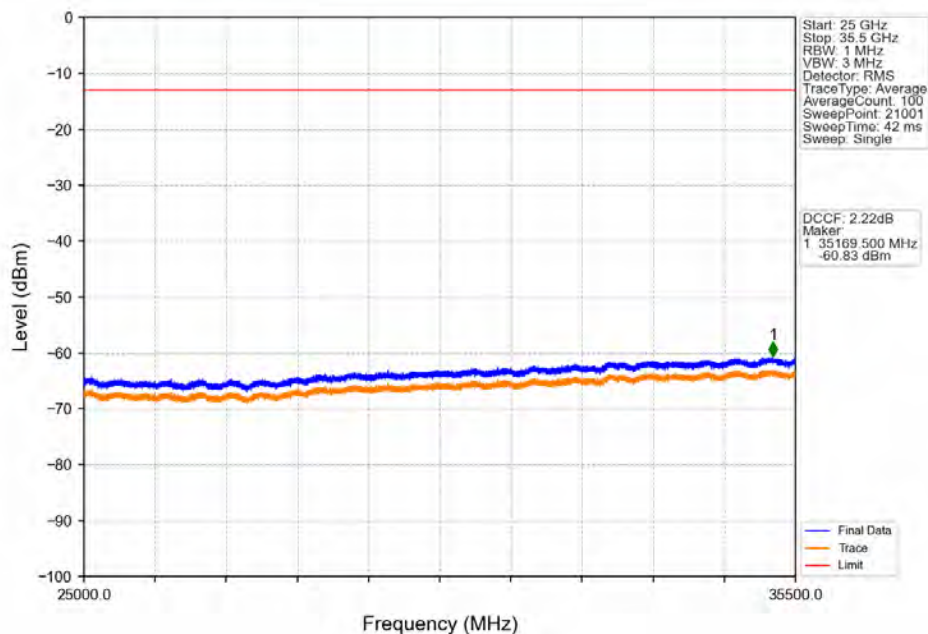
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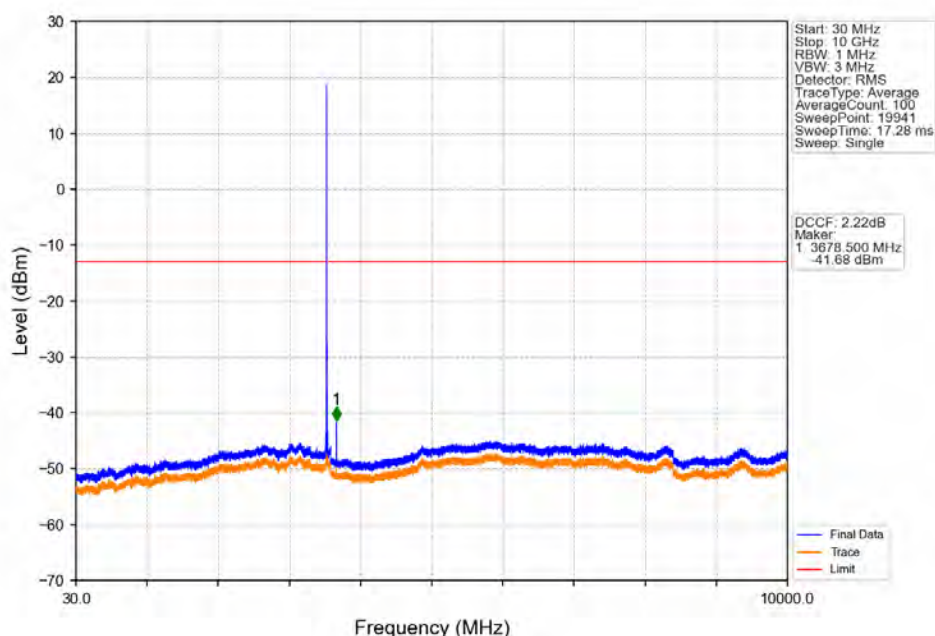
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Report No.: SUCR240500014801

Rev.: 01

Page: 109 of 144

Band42a_10MHz_QPSK_HCH_3545MHz_RB_1_0_NTNV



Band42a_10MHz_QPSK_HCH_3545MHz_RB_1_0_NTNV



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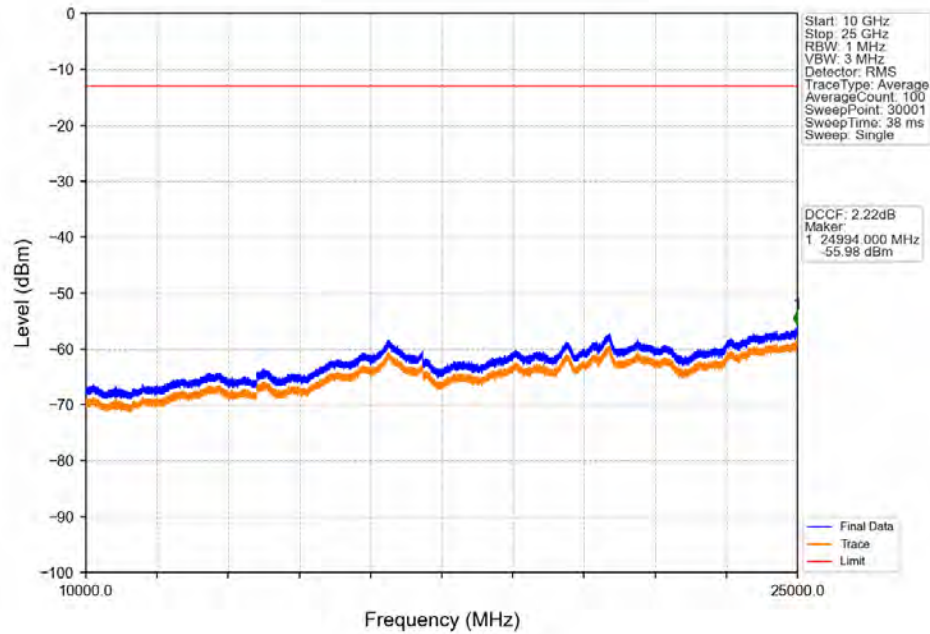
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Report No.: SUCR240500014801

Rev.: 01

Page: 110 of 144



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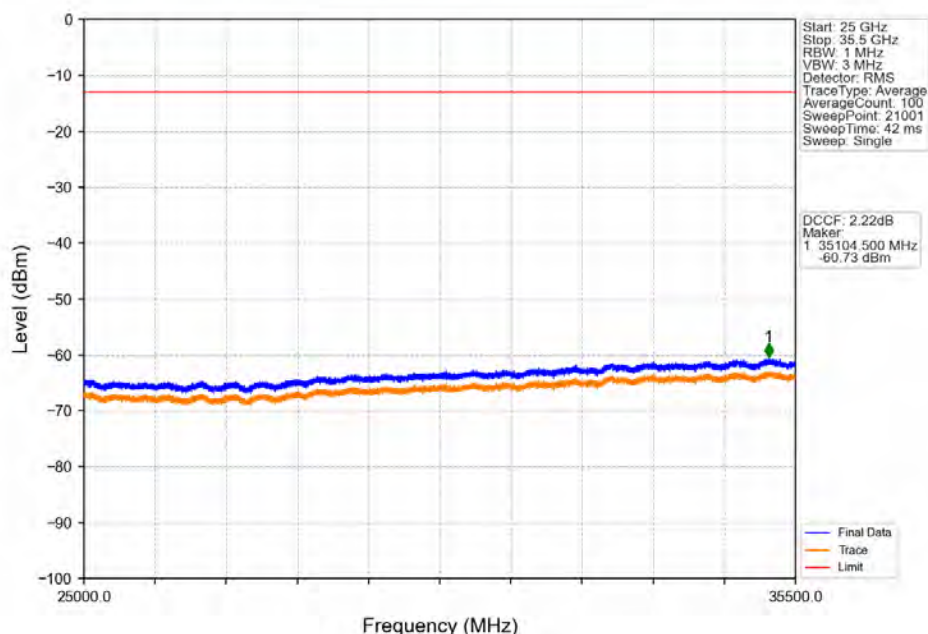
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Report No.: SUCR240500014801

Rev.: 01

Page: 111 of 144

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Band42a_10MHz_QPSK_HCH_3545MHz_RB_1_49_NTNV



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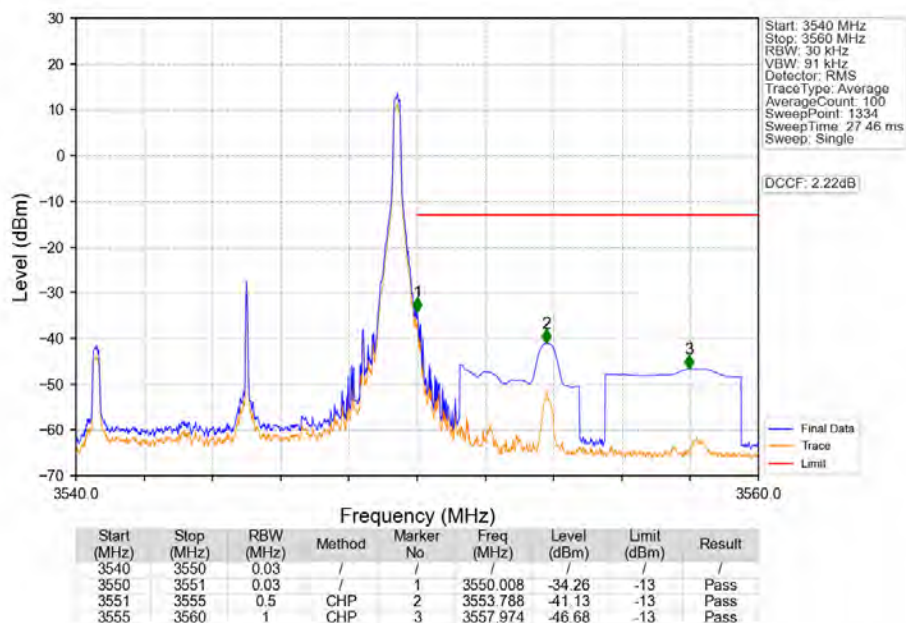
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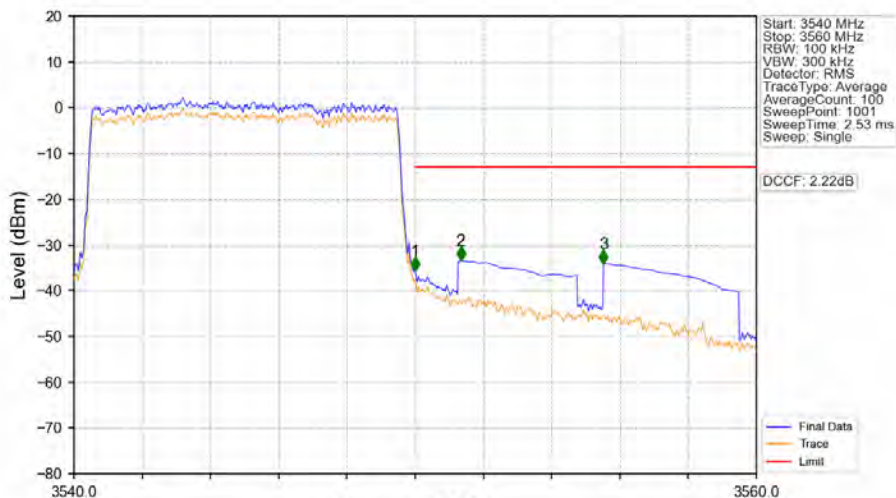
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Rev.: 01

Page: 113 of 144

Band42a_10MHz_QPSK_HCH_3545MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3540	3550	0.1	/	1	3550.000	-35.72	-13	Pass
3550	3551	0.1	CHP	2	3551.340	-33.48	-13	Pass
3551	3555	0.5	CHP	3	3555.520	-34.10	-13	Pass



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Report No.: SUCR240500014801
 Rev.: 01
 Page: 114 of 144

5.3 B42a_15MHz

5.3.1 Test Result

Band: 42a / Bandwidth: 15MHz / NTV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	3457.5	1	0	Refer To Test Graph	Pass
		75	0	Refer To Test Graph	Pass
	3500	1	0	Refer To Test Graph	Pass
	3542.5	1	0	Refer To Test Graph	Pass
			74	Refer To Test Graph	Pass
		75	0	Refer To Test Graph	Pass



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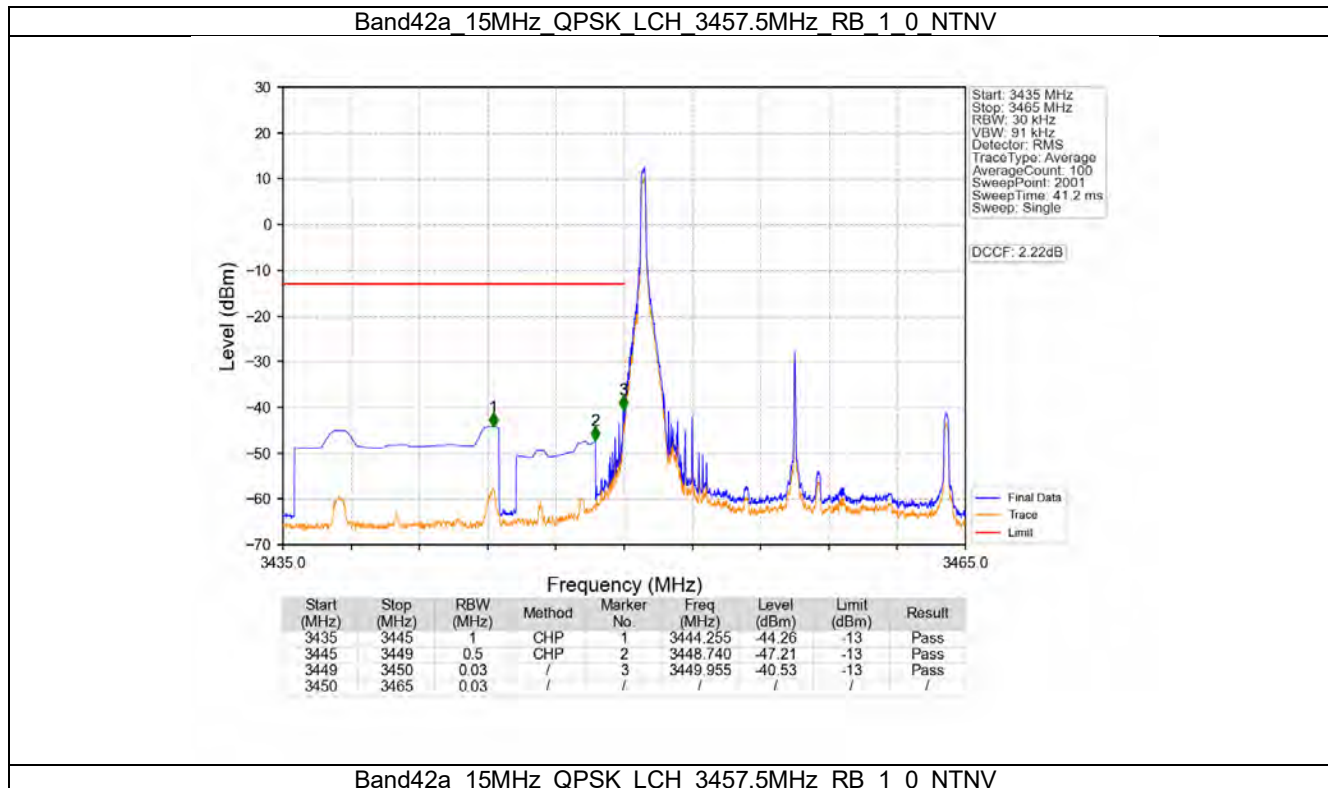
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5.3.2 Test Graph



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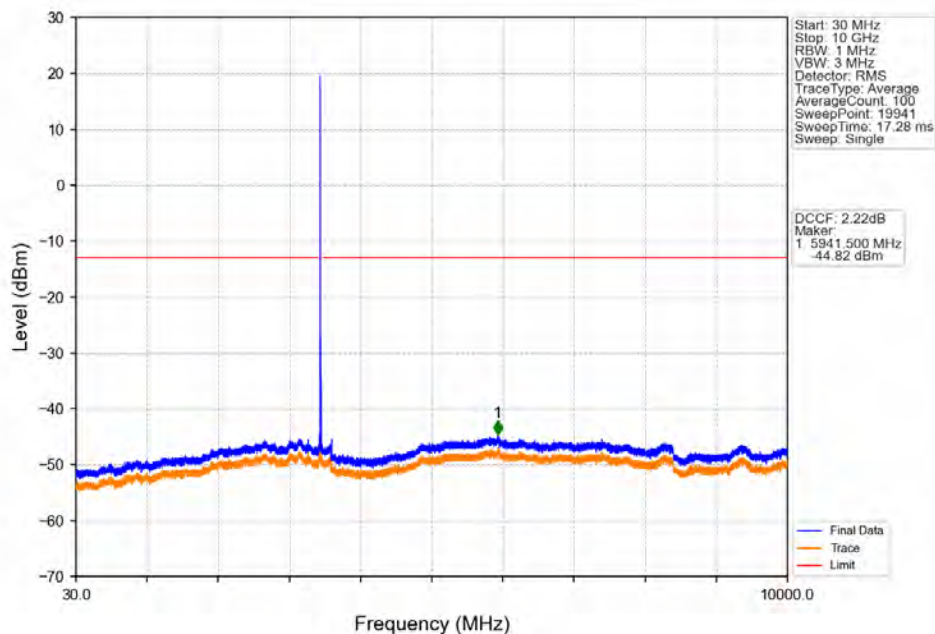
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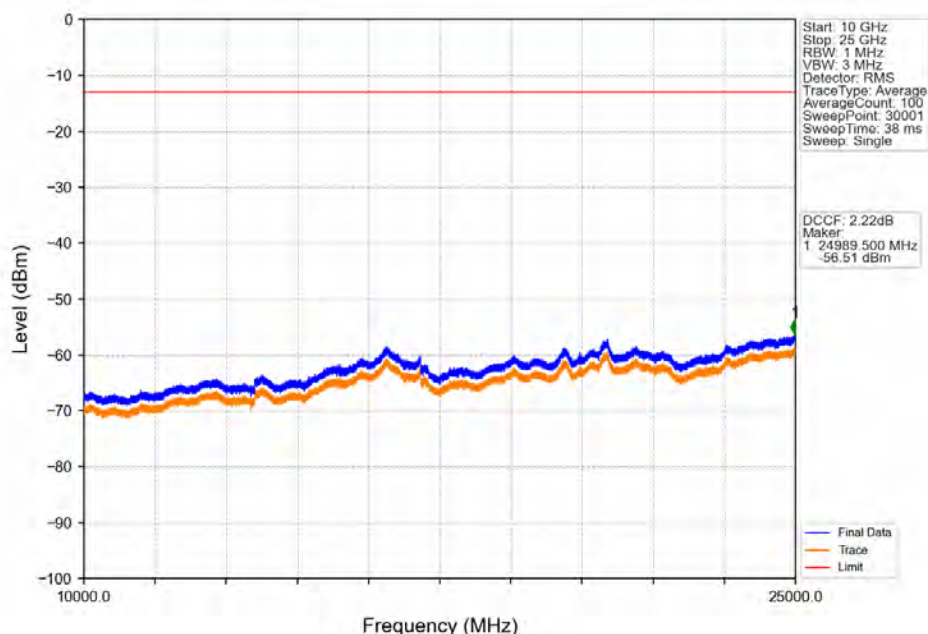
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Report No.: SUCR240500014801

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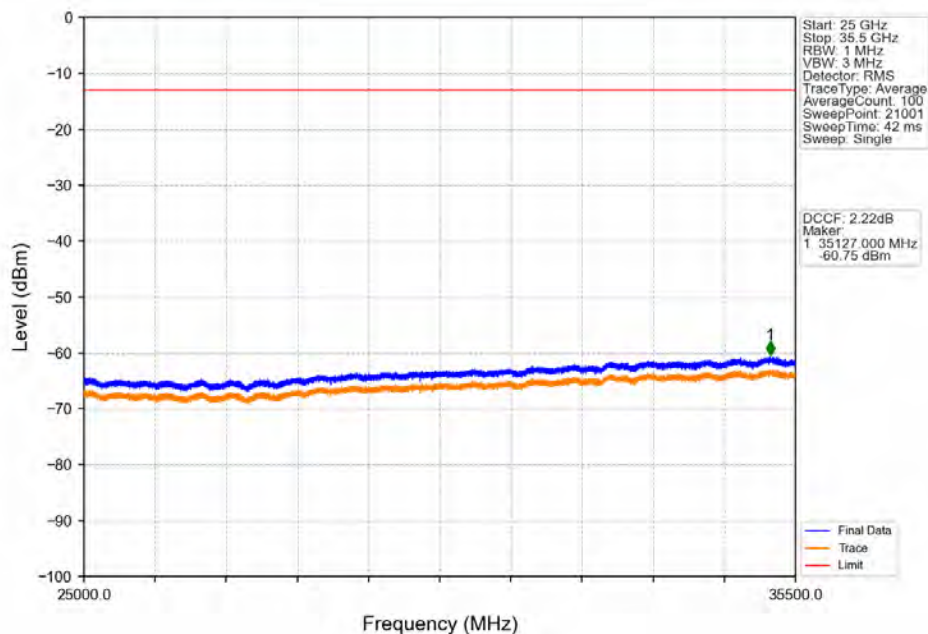
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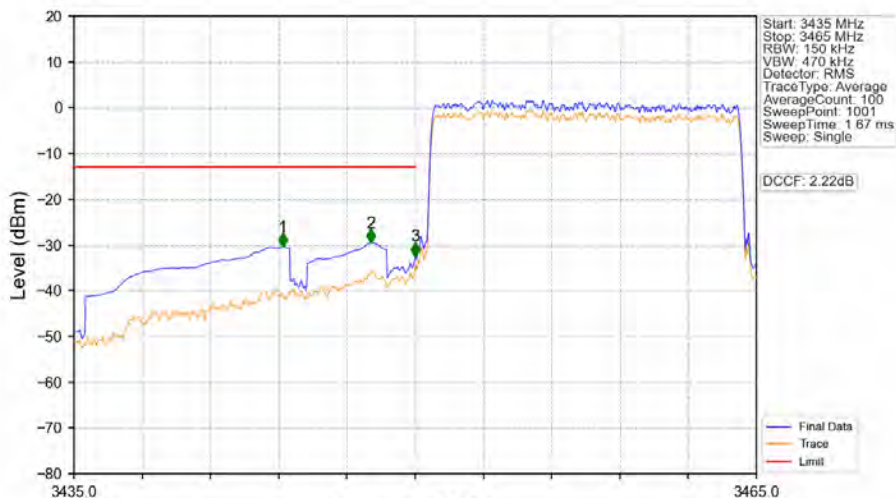
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Report No.: SUCR240500014801

Rev.: 01

Page: 119 of 144

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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3435	3445	1	CHP	1	3444.180	-30.49	-13	Pass
3445	3449	0.5	CHP	2	3448.050	-29.55	-13	Pass
3449	3450	0.15	/	3	3450.000	-32.47	-13	Pass
3450	3465	0.15	/	/	/	/	/	/

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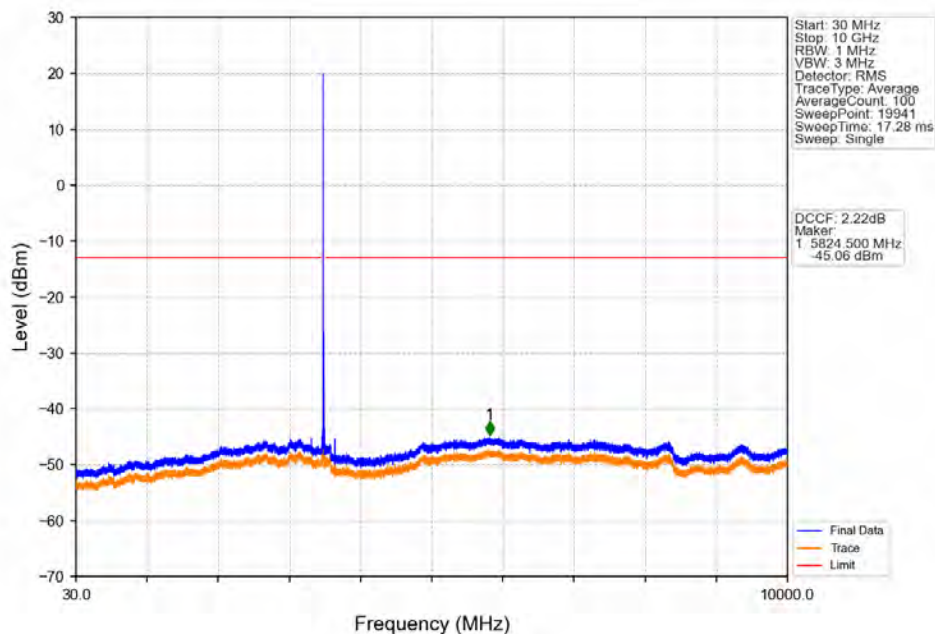
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Report No.: SUCR240500014801

Rev.: 01

Page: 120 of 144



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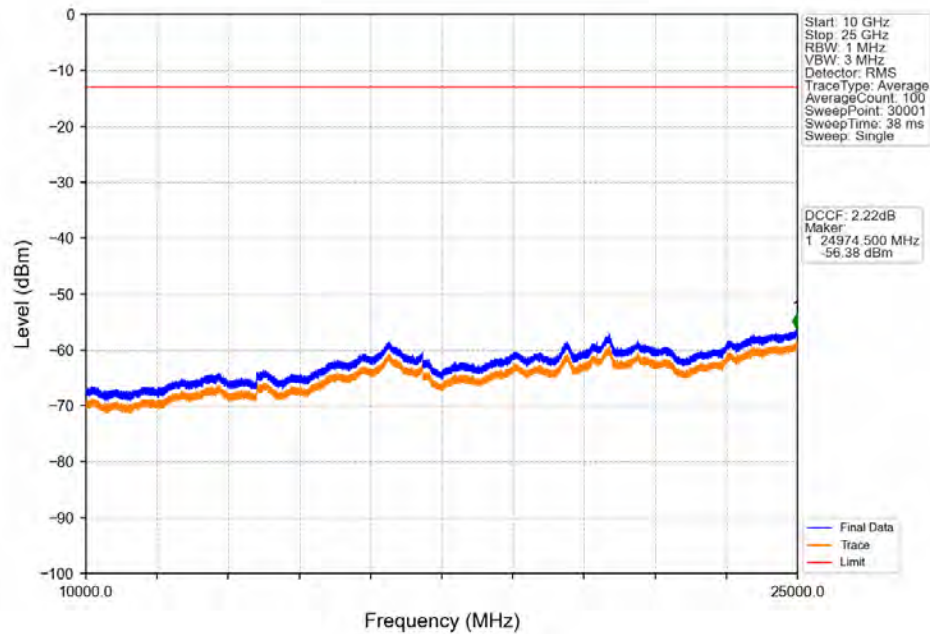
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Report No.: SUCR240500014801

Rev.: 01

Page: 121 of 144

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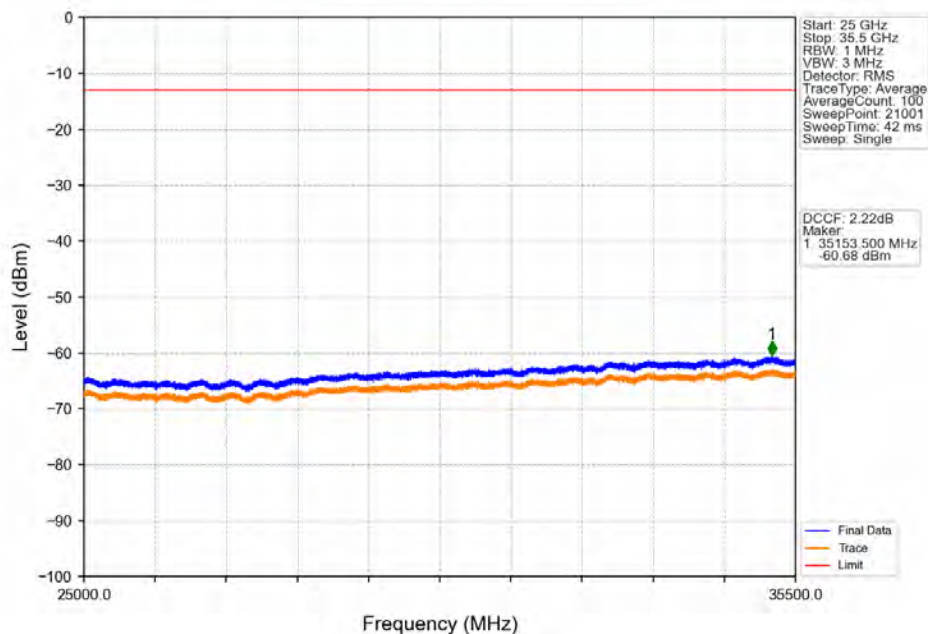
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Report No.: SUCR240500014801

Rev.: 01

Page: 122 of 144



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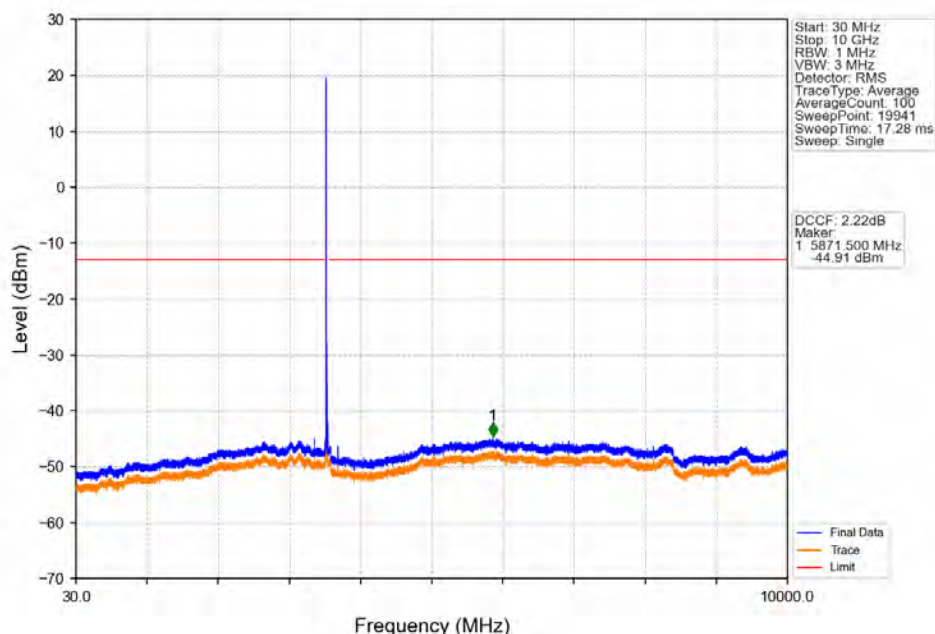
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Report No.: SUCR240500014801

Rev.: 01

Page: 123 of 144

Band42a_15MHz_QPSK_HCH_3542.5MHz_RB_1_0_NTNV



Band42a_15MHz_QPSK_HCH_3542.5MHz_RB_1_0_NTNV



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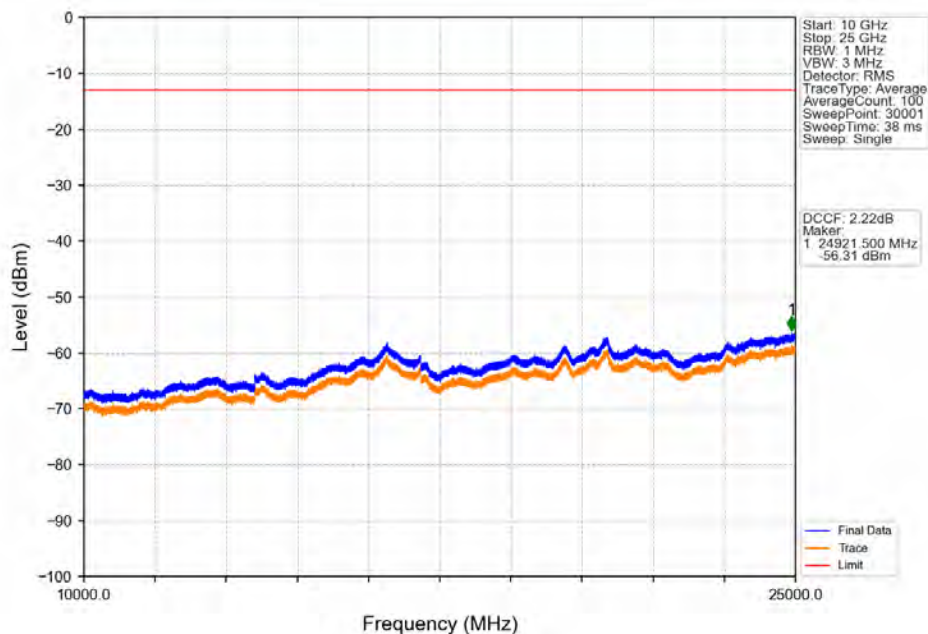
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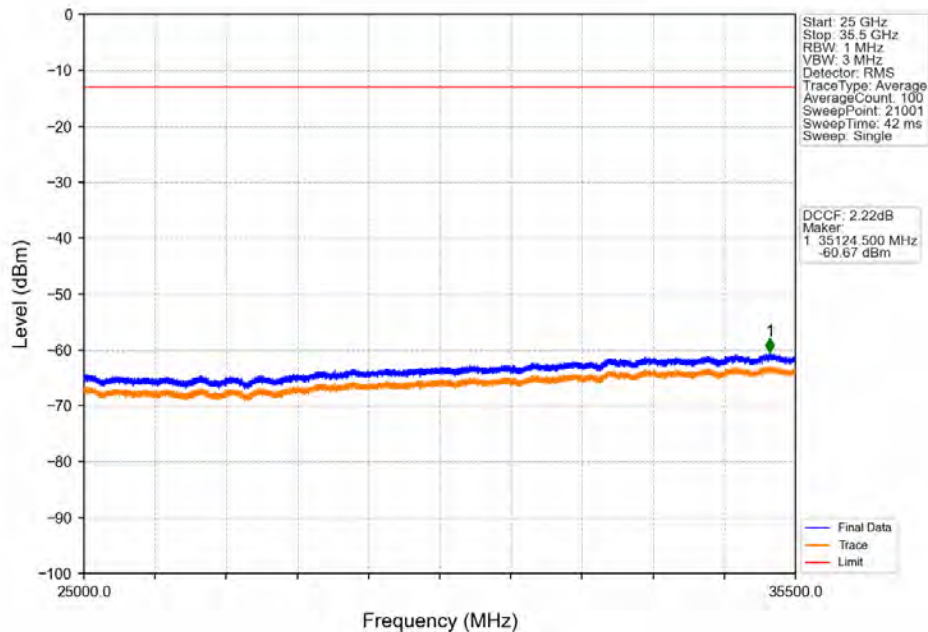
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Report No.: SUCR240500014801

Rev.: 01

Page: 125 of 144

Band42a_15MHz_QPSK_HCH_3542.5MHz_RB_1_0_NTNV



Band42a_15MHz_QPSK_HCH_3542.5MHz_RB_1_74_NTNV



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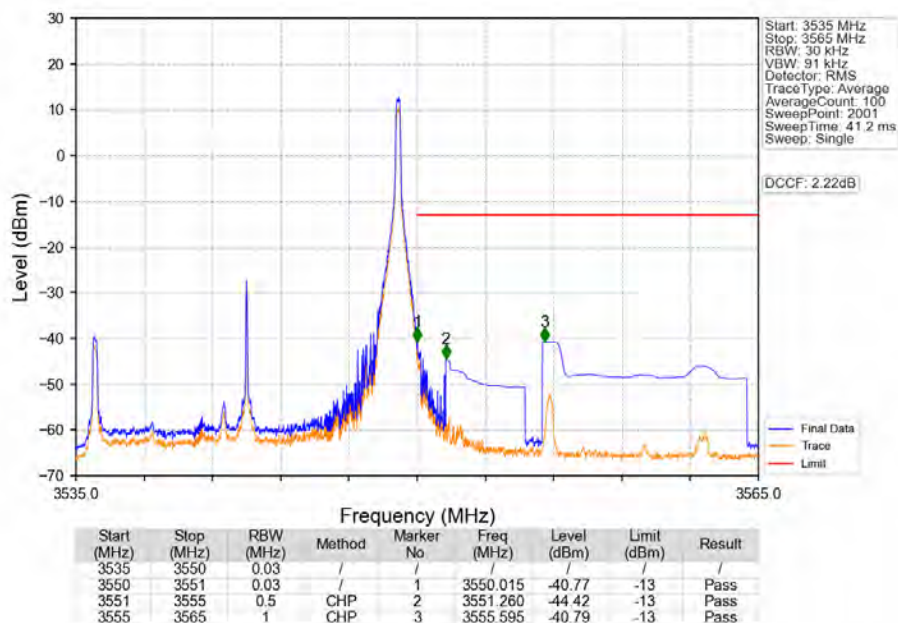
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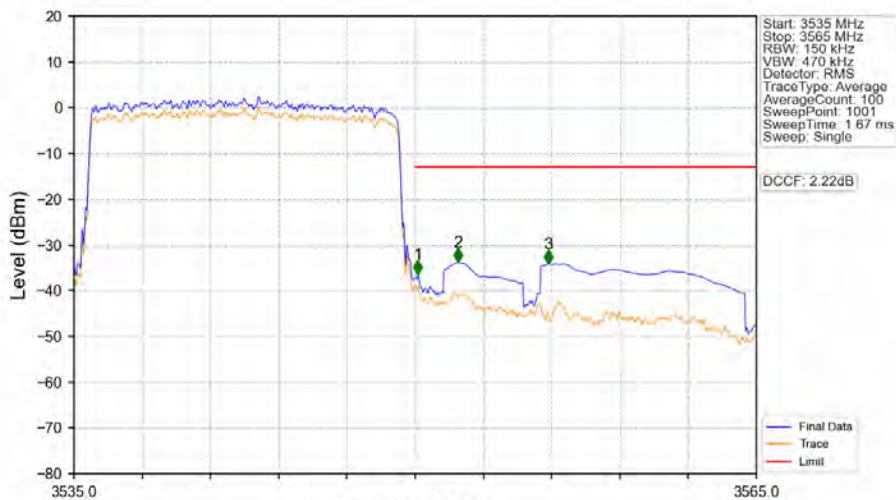
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Rev.: 01

Page: 127 of 144

Band42a_15MHz_QPSK_HCH_3542.5MHz_RB_75_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3535	3550	0.15	/	1	3550.120	-36.50	-13	Pass
3550	3551	0.15	CHP	2	3551.890	-33.84	-13	Pass
3551	3555	0.5	CHP	3	3555.850	-34.21	-13	Pass



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Report No.: SUCR240500014801
 Rev.: 01
 Page: 128 of 144

5.4 B42a_20MHz

5.4.1 Test Result

Band: 42a / Bandwidth: 20MHz / NTV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	3460	1	0	Refer To Test Graph	Pass
		100	0	Refer To Test Graph	Pass
	3500	1	0	Refer To Test Graph	Pass
	3540	1	0	Refer To Test Graph	Pass
			99	Refer To Test Graph	Pass
		100	0	Refer To Test Graph	Pass



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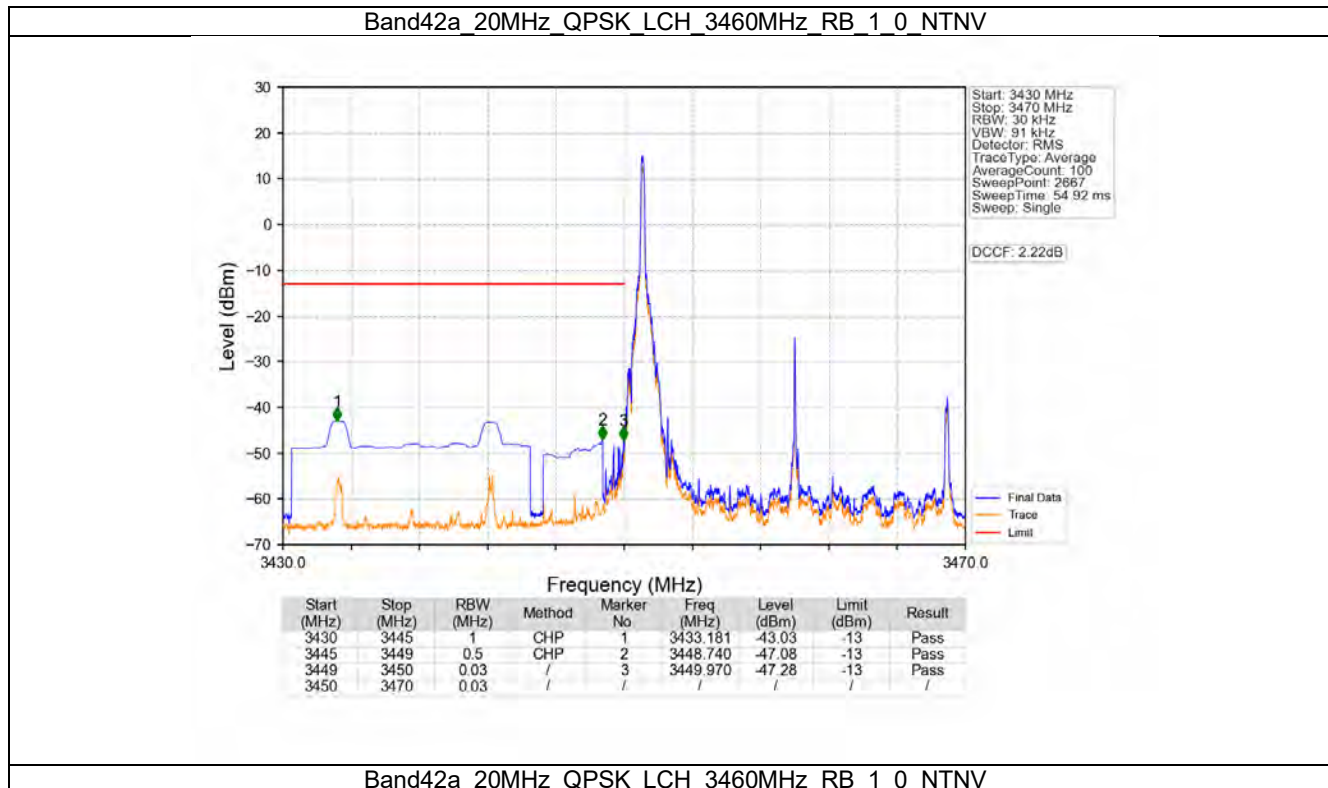
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5.4.2 Test Graph



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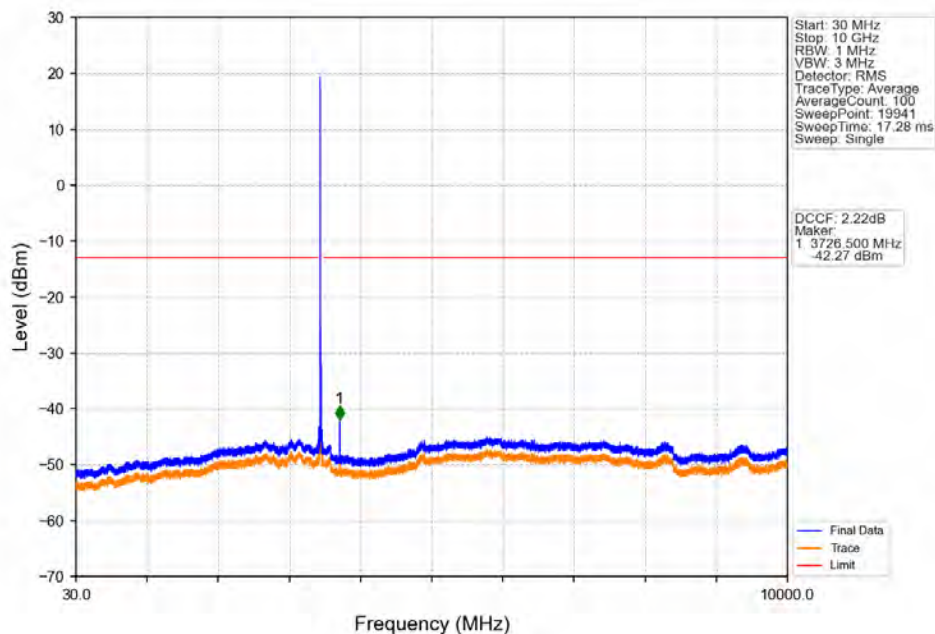
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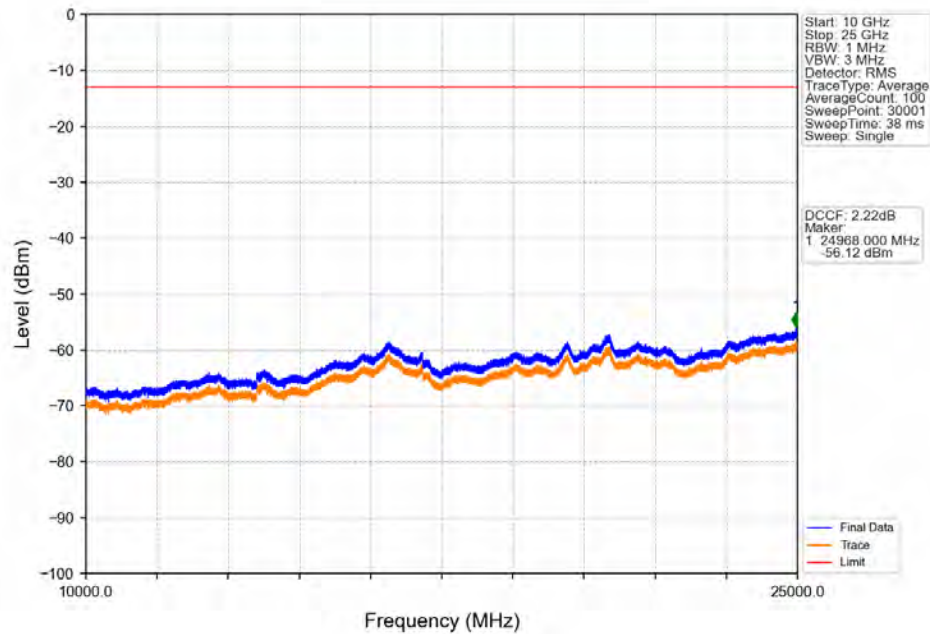
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Report No.: SUCR240500014801

Rev.: 01

Page: 131 of 144

Band42a_20MHz_QPSK_LCH_3460MHz_RB_1_0_NTNV



Band42a_20MHz_QPSK_LCH_3460MHz_RB_1_0_NTNV



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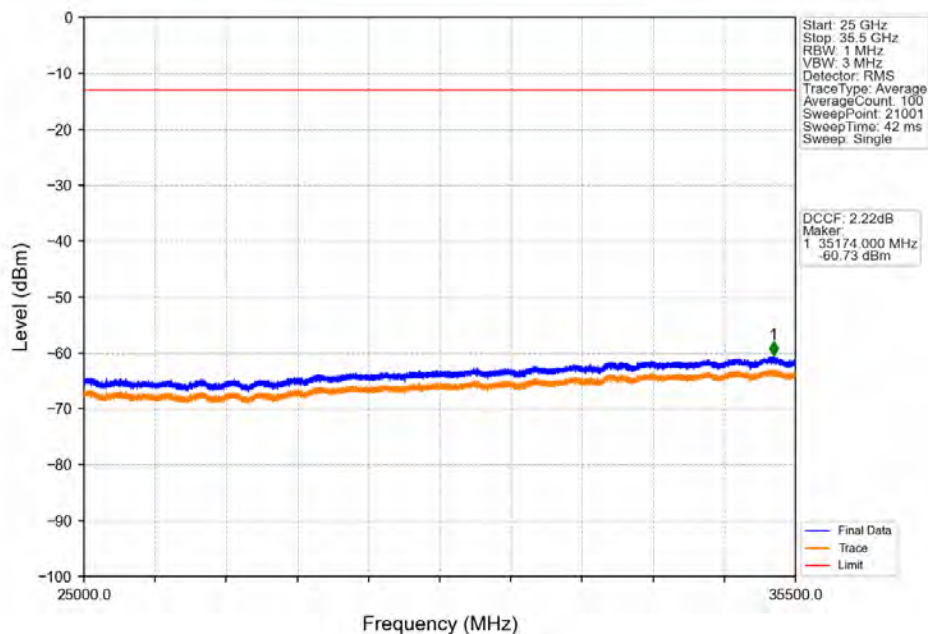
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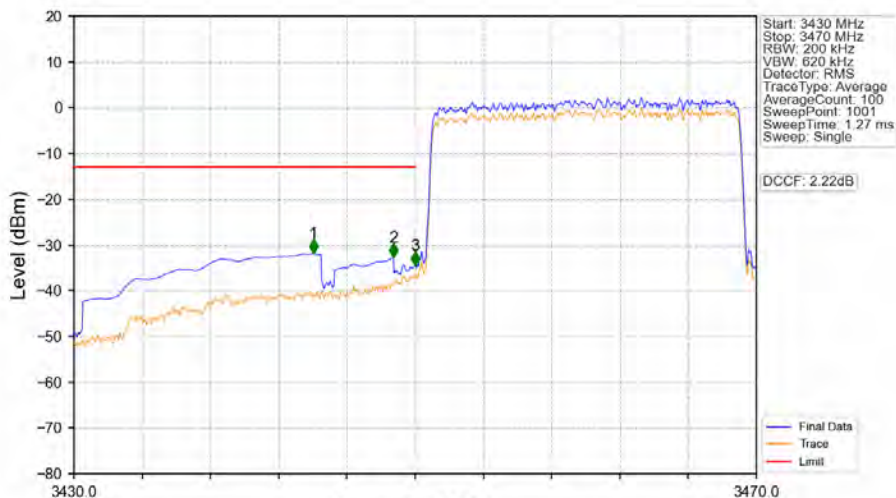
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Report No.: SUCR240500014801

Rev.: 01

Page: 133 of 144

Band42a_20MHz_QPSK_LCH_3460MHz_RB_100_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3430	3445	1	CHP	1	3444.040	-31.92	-13	Pass
3445	3449	0.5	CHP	2	3448.720	-32.76	-13	Pass
3449	3450	0.2	/	3	3450.000	-34.45	-13	Pass
3450	3470	0.2	/	/	/	/	/	/

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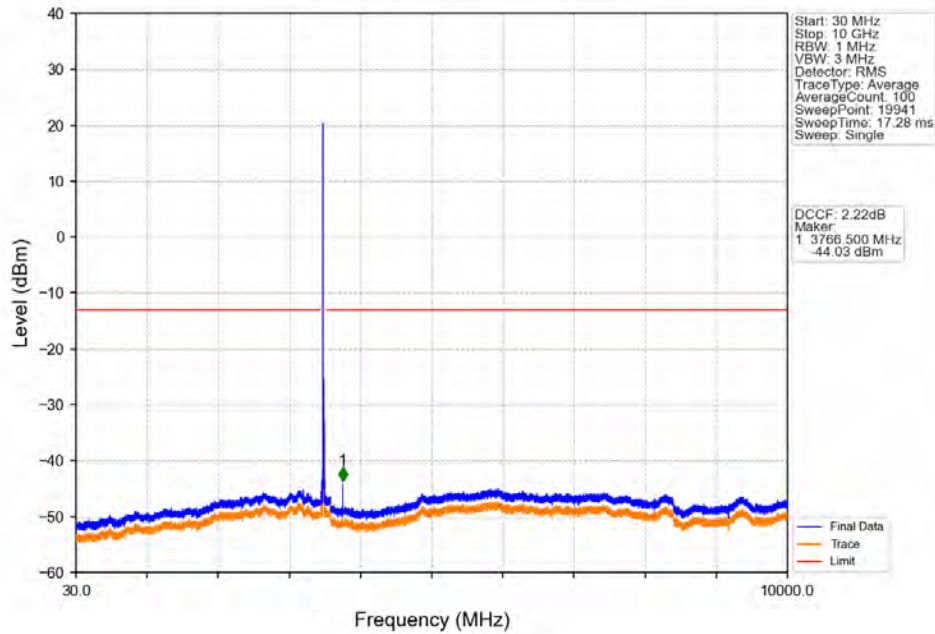
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Report No.: SUCR240500014801

Rev.: 01

Page: 134 of 144



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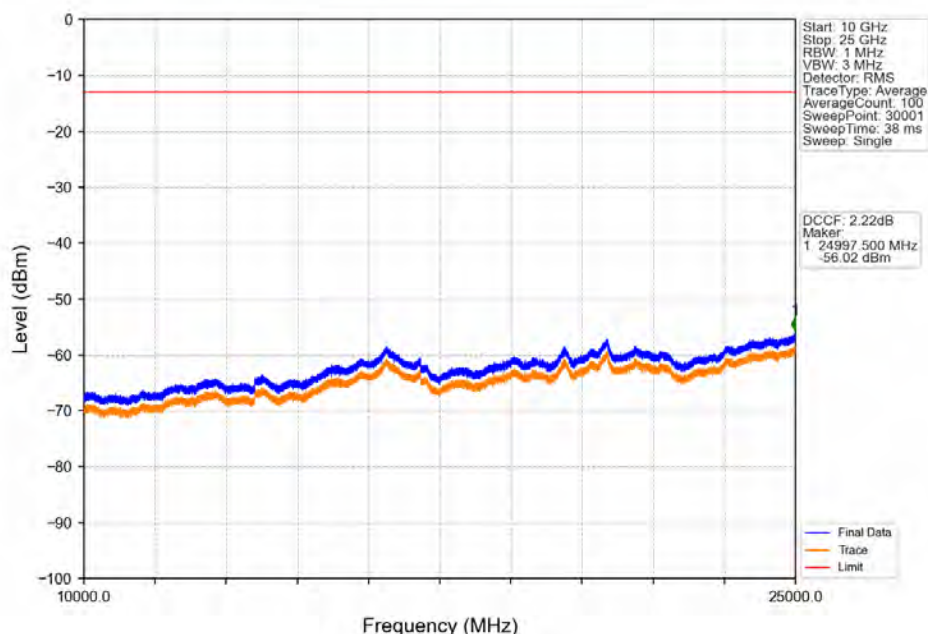
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Report No.: SUCR240500014801

Rev.: 01

Page: 135 of 144

Band42a_20MHz_QPSK_MCH_3500MHz_RB_1_0_NTNV



Band42a_20MHz_QPSK_MCH_3500MHz_RB_1_0_NTNV



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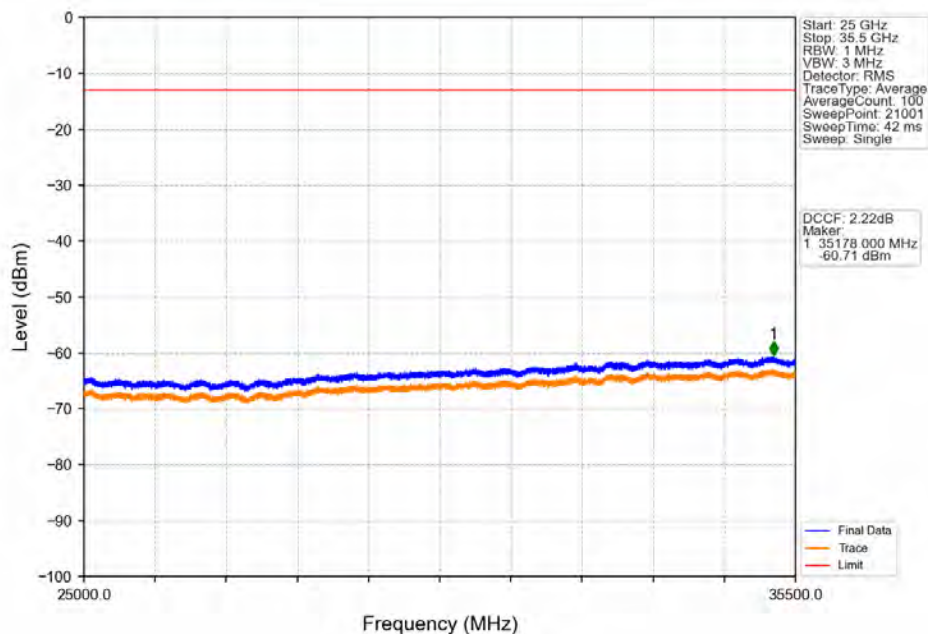
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Page: 136 of 144



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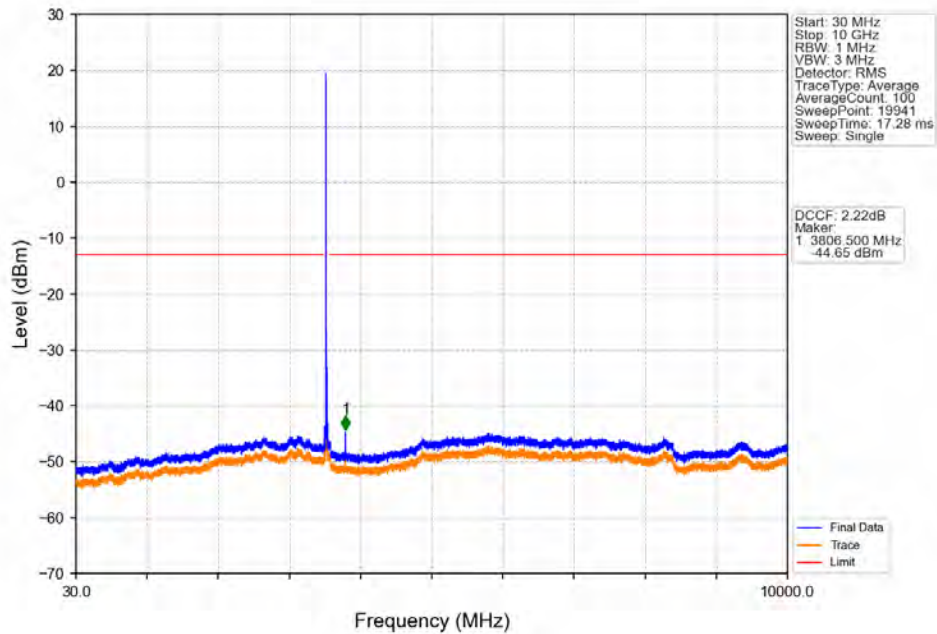
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Report No.: SUCR240500014801

Rev.: 01

Page: 137 of 144

Band42a_20MHz_QPSK_HCH_3540MHz_RB_1_0_NTNV



Band42a_20MHz_QPSK_HCH_3540MHz_RB_1_0_NTNV



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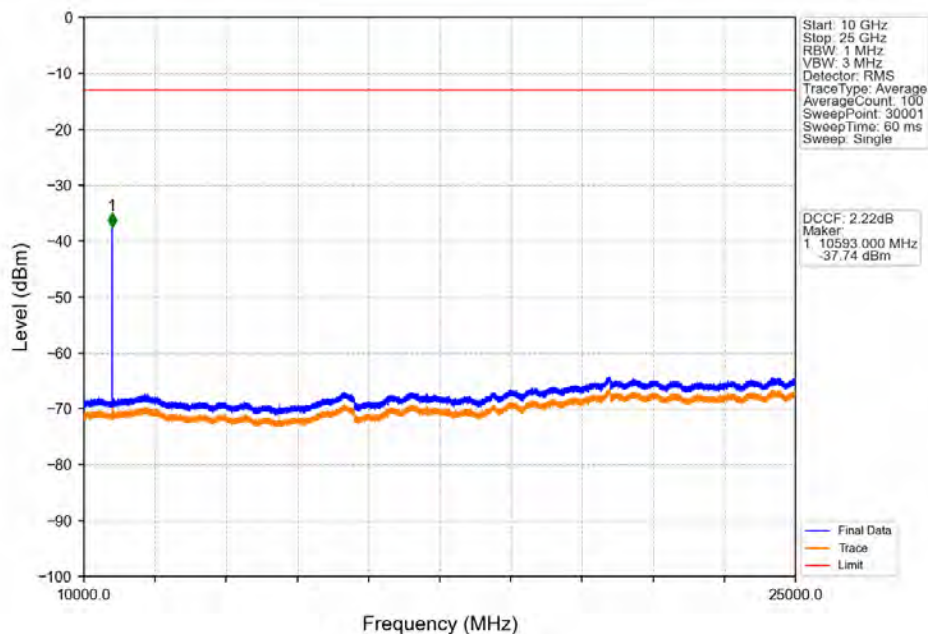
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Page: 138 of 144



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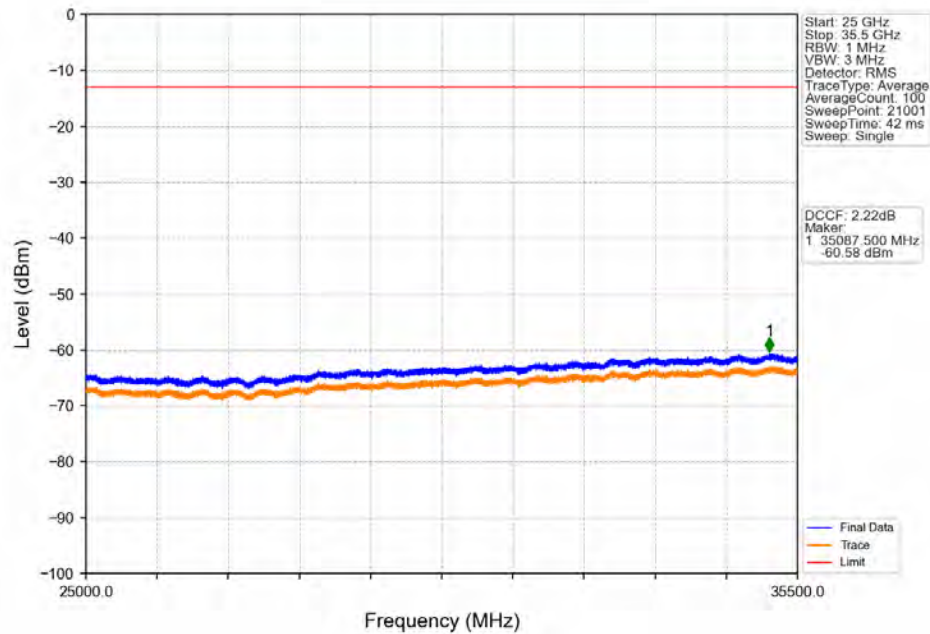
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Report No.: SUCR240500014801

Rev.: 01

Page: 139 of 144

Band42a_20MHz_QPSK_HCH_3540MHz_RB_1_0_NTNV



Band42a_20MHz_QPSK_HCH_3540MHz_RB_1_99_NTNV



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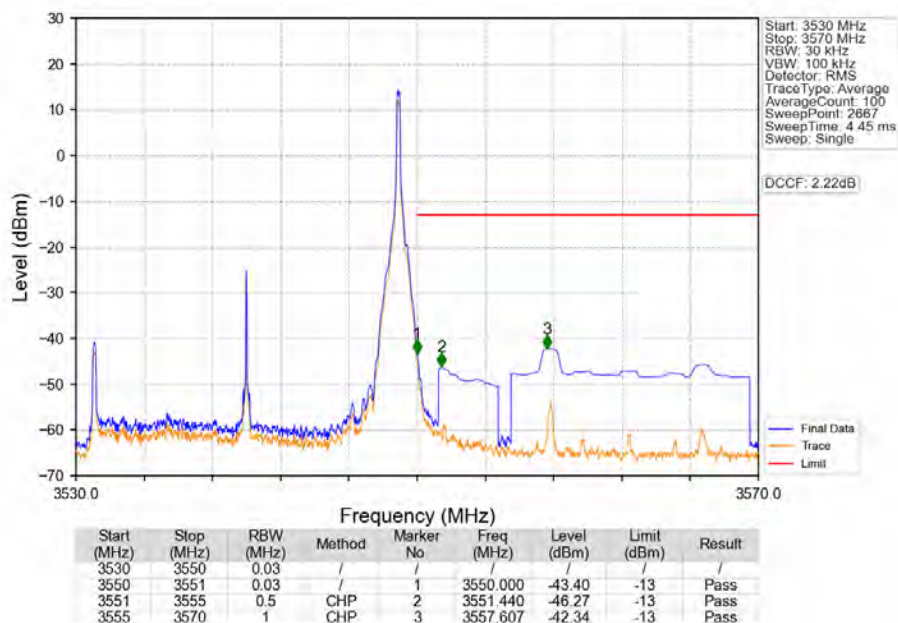
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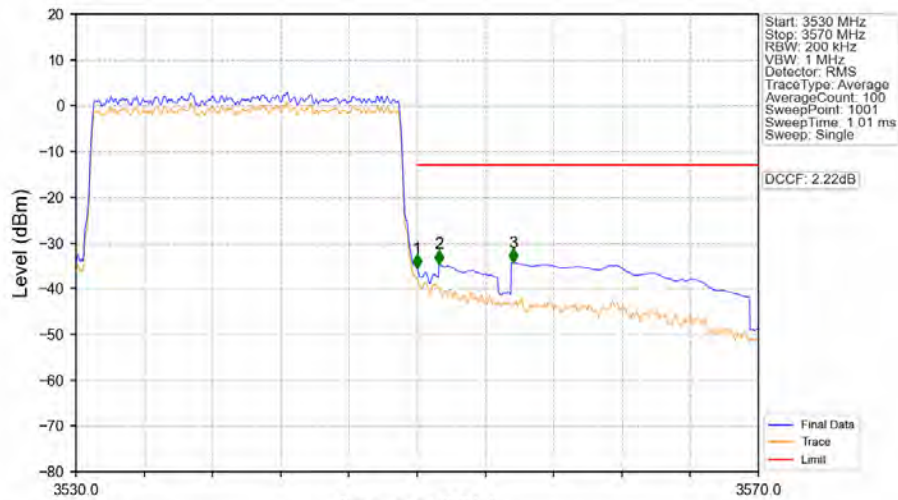
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Rev.: 01

Page: 141 of 144

Band42a_20MHz_QPSK_HCH_3540MHz_RB_100_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3530	3550	0.2	/	1	3550.000	-35.62	-13	Pass
3550	3551	0.2	CHP	2	3551.280	-34.61	-13	Pass
3551	3555	0.5	CHP	3	3555.640	-34.29	-13	Pass



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Rev.: 01

Page: 142 of 144

6. Field Strength of Spurious Radiation

Test Band = LTE BAND 42 3450-3550_ TM1

Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	6982.0417	52.92	-45.95	35.56	-52.73	-13.00	39.73	Horizontal
2	8048.6667	43.26	-44.35	36.27	-60.08	-13.00	47.08	Horizontal
3	11564.3125	38.14	-39.53	39.29	-57.36	-13.00	44.36	Horizontal
4	17444.6458	36.79	-36.72	41.75	-53.45	-13.00	40.45	Horizontal
5	10473.27	37.26	-40.75	38.93	-59.82	-13.00	46.82	Horizontal
6	13964.36	35.48	-38.86	40.82	-57.82	-13.00	44.82	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	6982.0417	54.95	-45.95	35.56	-50.70	-13.00	37.70	Vertical
2	8496.6875	41.66	-43.70	36.90	-60.41	-13.00	47.41	Vertical
3	10473.25	40.65	-40.75	38.93	-56.44	-13.00	43.44	Vertical
4	11447.3958	38.70	-39.89	39.31	-57.14	-13.00	44.14	Vertical
5	13964.36	36.09	-38.86	40.82	-57.21	-13.00	44.21	Vertical
6	17455.45	34.16	-36.60	41.82	-55.89	-13.00	42.89	Vertical



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 Rev.: 01
 Page: 143 of 144

Test Band = LTE BAND 42 3450-3550_ TM1
Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	6962.3958	52.93	-46.00	35.52	-52.81	-13.00	39.81	Horizontal
2	8036.6875	43.12	-44.33	36.25	-60.22	-13.00	47.22	Horizontal
3	12359.25	37.25	-38.73	38.98	-57.75	-13.00	44.75	Horizontal
4	10353.27	37.92	-41.17	38.82	-59.69	-13.00	46.69	Horizontal
5	13804.36	35.01	-38.51	40.45	-58.31	-13.00	45.31	Horizontal
6	17255.45	34.83	-37.14	40.54	-57.03	-13.00	44.03	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	6961.9167	50.98	-46.00	35.52	-54.76	-13.00	41.76	Vertical
2	8010.8125	43.16	-44.29	36.22	-60.17	-13.00	47.17	Vertical
3	12035.3333	37.55	-38.86	39.18	-57.39	-13.00	44.39	Vertical
4	10353.27	38.01	-41.17	38.82	-59.60	-13.00	46.60	Vertical
5	13804.36	35.82	-38.51	40.45	-57.50	-13.00	44.50	Vertical
6	17255.45	35.44	-37.14	40.54	-56.42	-13.00	43.42	Vertical



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 Rev.: 01
 Page: 144 of 144

Test Band = LTE BAND 42 3450-3550_ TM1
Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7062.5417	48.19	-46.04	35.75	-57.35	-13.00	44.35	Horizontal
2	8469.375	42.17	-43.89	36.86	-60.12	-13.00	47.12	Horizontal
3	12276.3542	38.08	-39.42	39.03	-57.57	-13.00	44.57	Horizontal
4	10593.27	37.11	-41.15	39.03	-60.27	-13.00	47.27	Horizontal
5	14124.36	34.33	-38.60	40.80	-58.73	-13.00	45.73	Horizontal
6	17655.45	33.65	-37.34	43.10	-55.86	-13.00	42.86	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7062.0625	52.55	-46.03	35.75	-53.00	-13.00	40.00	Vertical
2	8032.8542	43.08	-44.32	36.25	-60.26	-13.00	47.26	Vertical
3	11574.375	38.07	-39.44	39.29	-57.35	-13.00	44.35	Vertical
4	10593.27	38.10	-41.15	39.03	-59.28	-13.00	46.28	Vertical
5	14124.36	34.46	-38.60	40.80	-58.60	-13.00	45.60	Vertical
6	17655.45	34.99	-37.34	43.10	-54.52	-13.00	41.52	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---



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 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com

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