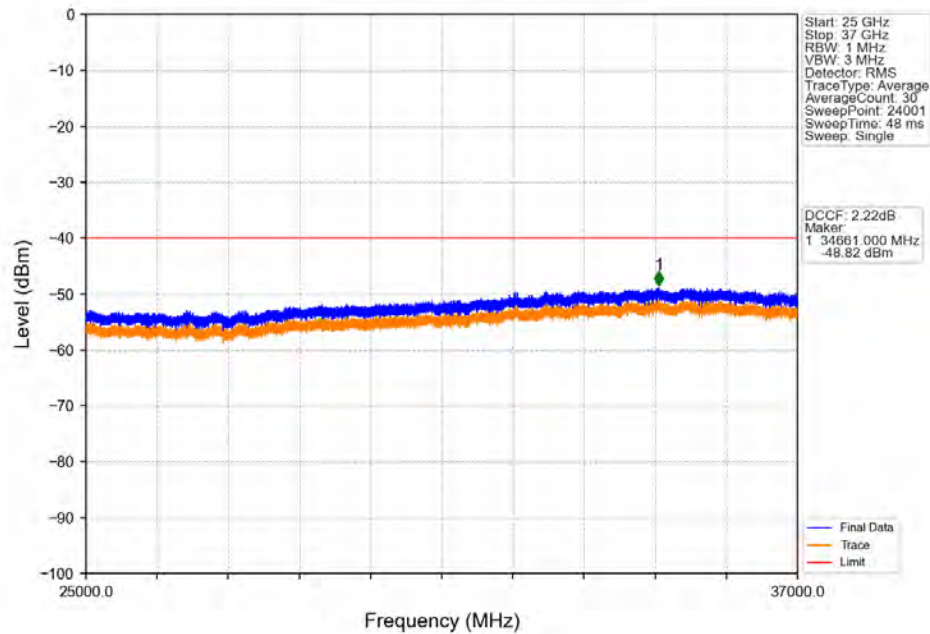


Report No.: SUCR240100001701

Rev.: 01

Page: 180 of 307

Band48_5MHz_QPSK_LCH_3552.5MHz_RB_1_0_NTNV



Band48_5MHz_QPSK_LCH_3552.5MHz_RB_25_0_NTNV



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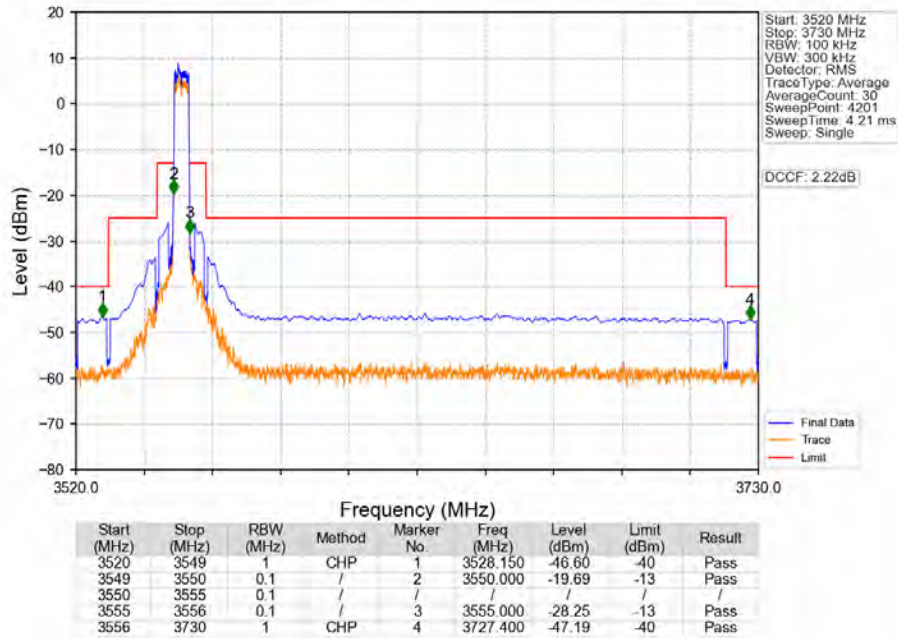
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Report No.: SUCR240100001701

Rev.: 01

Page: 181 of 307



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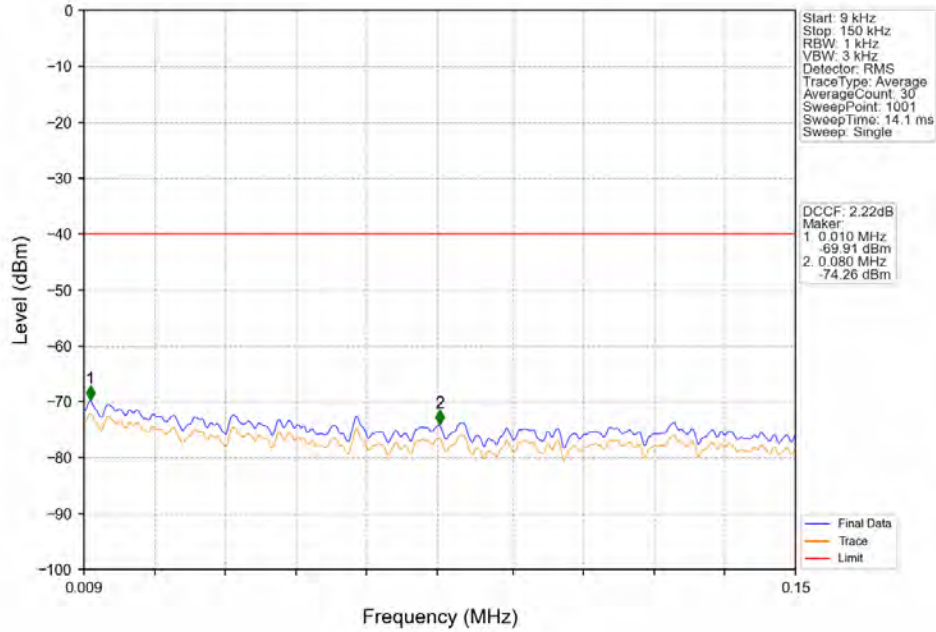
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Report No.: SUCR240100001701

Rev.: 01

Page: 182 of 307

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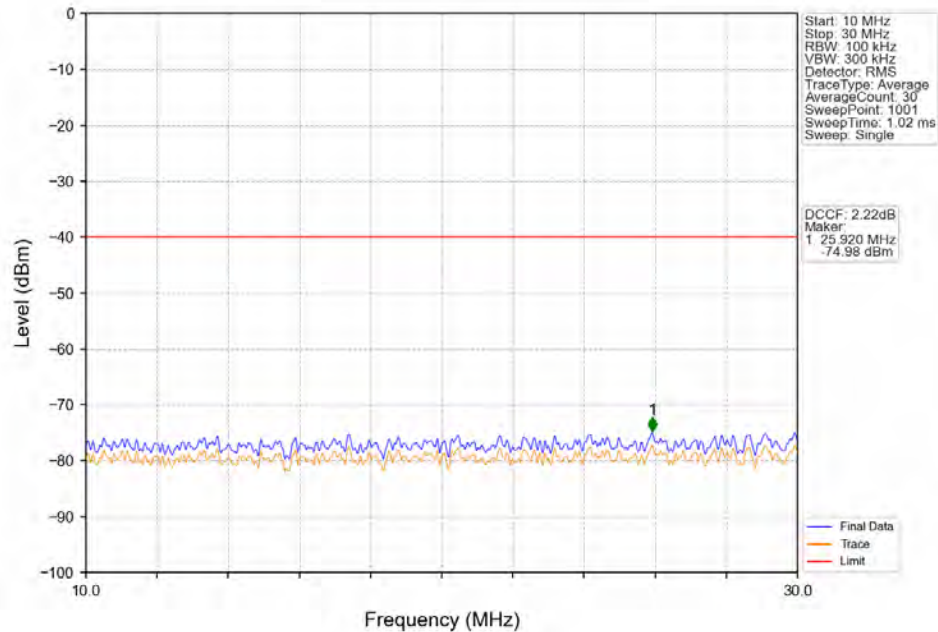
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Report No.: SUCR240100001701

Rev.: 01

Page: 183 of 307



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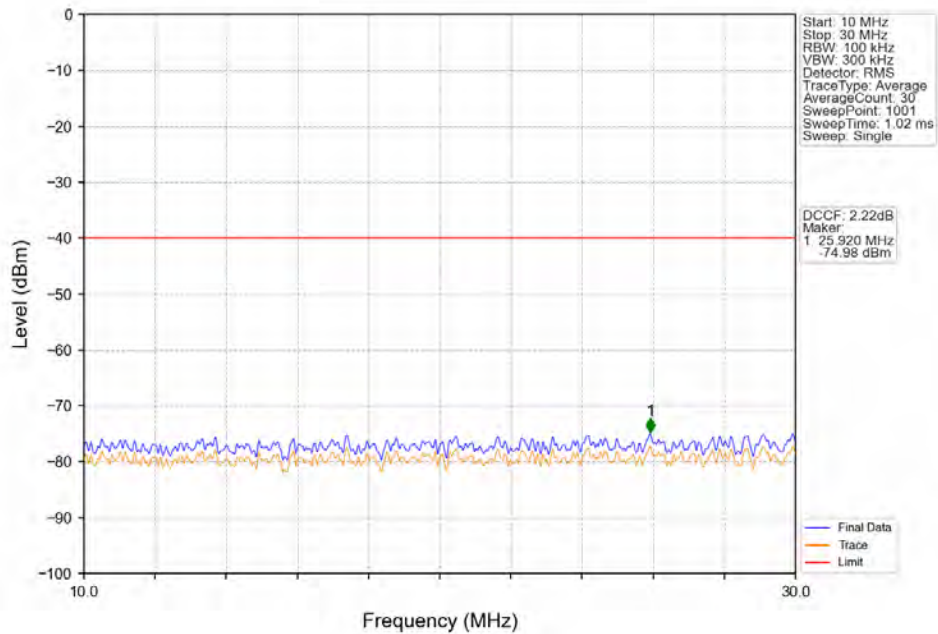
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Report No.: SUCR240100001701

Rev.: 01

Page: 184 of 307

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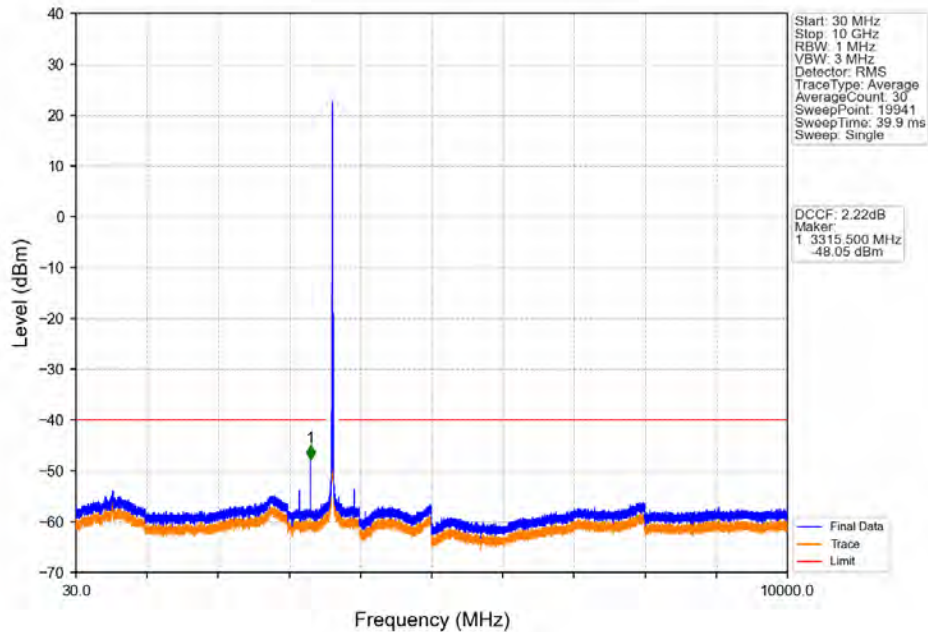
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Rev.: 01

Page: 185 of 307



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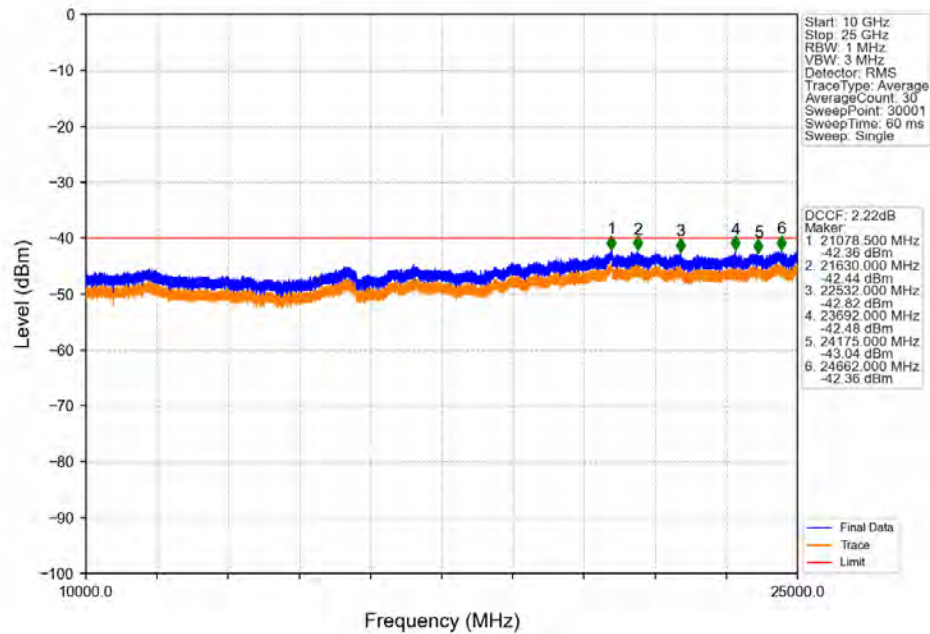
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Report No.: SUCR240100001701

Rev.: 01

Page: 186 of 307

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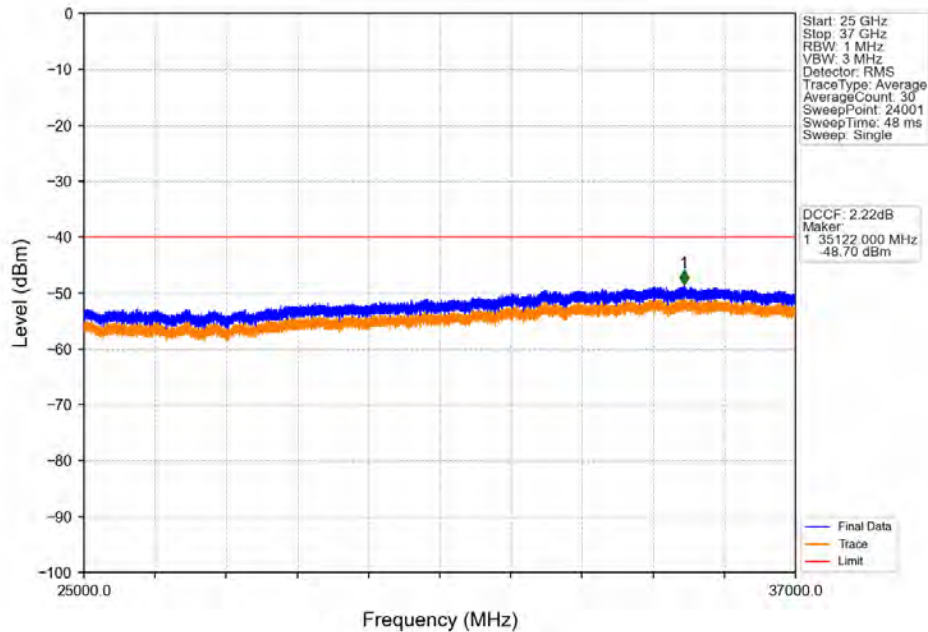
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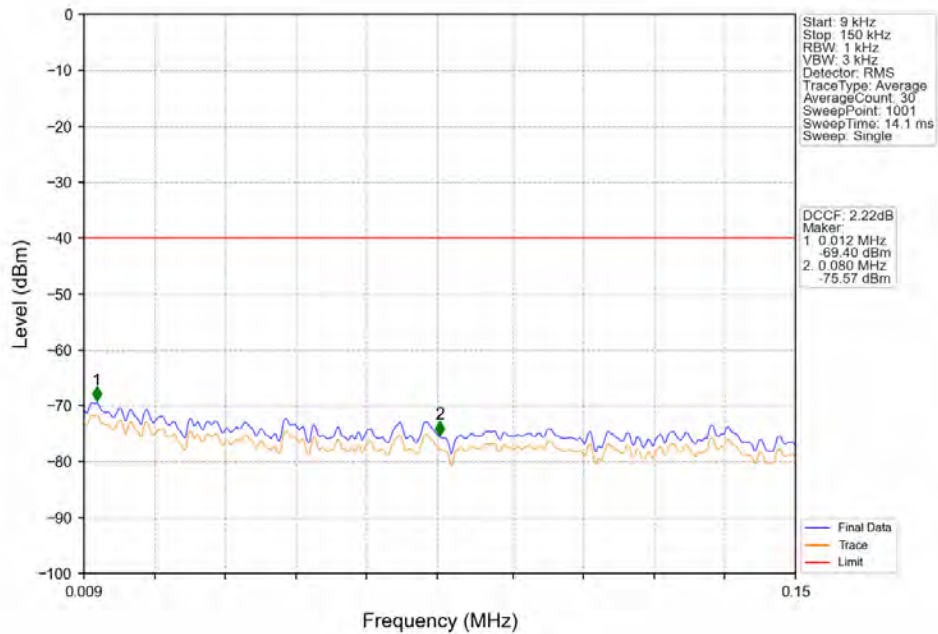
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Rev.: 01

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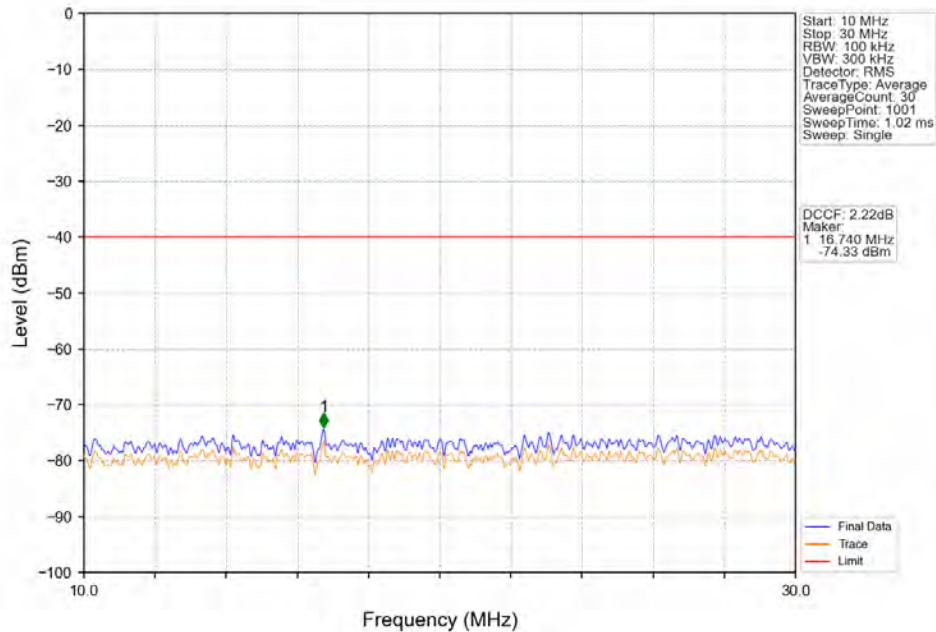
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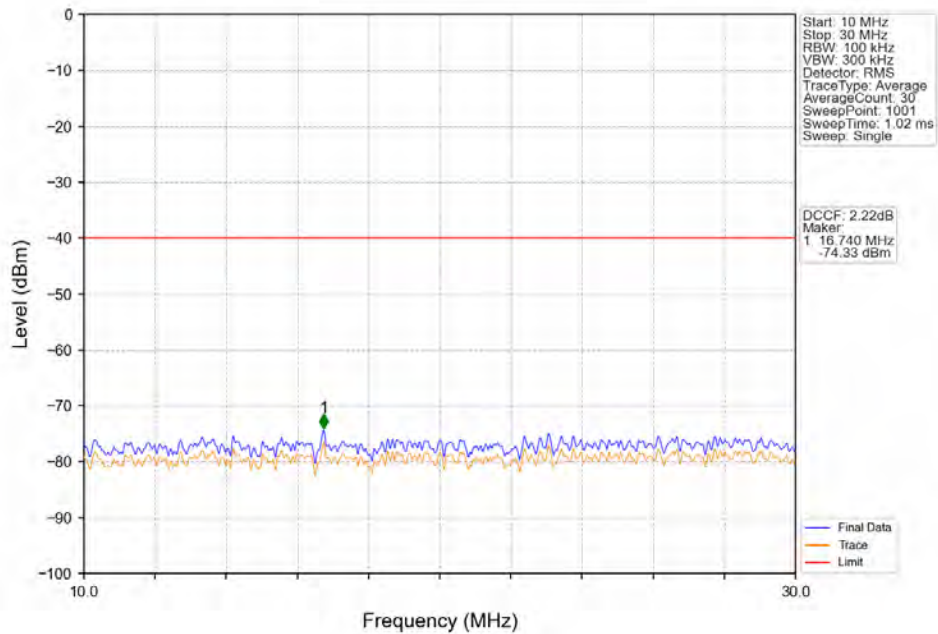
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Report No.: SUCR240100001701

Rev.: 01

Page: 190 of 307

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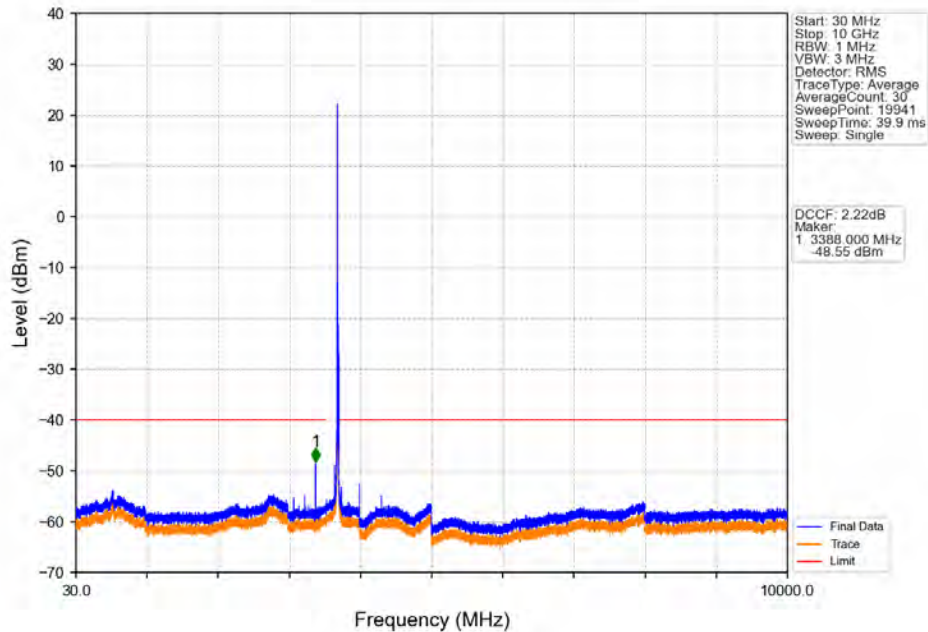
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Rev.: 01

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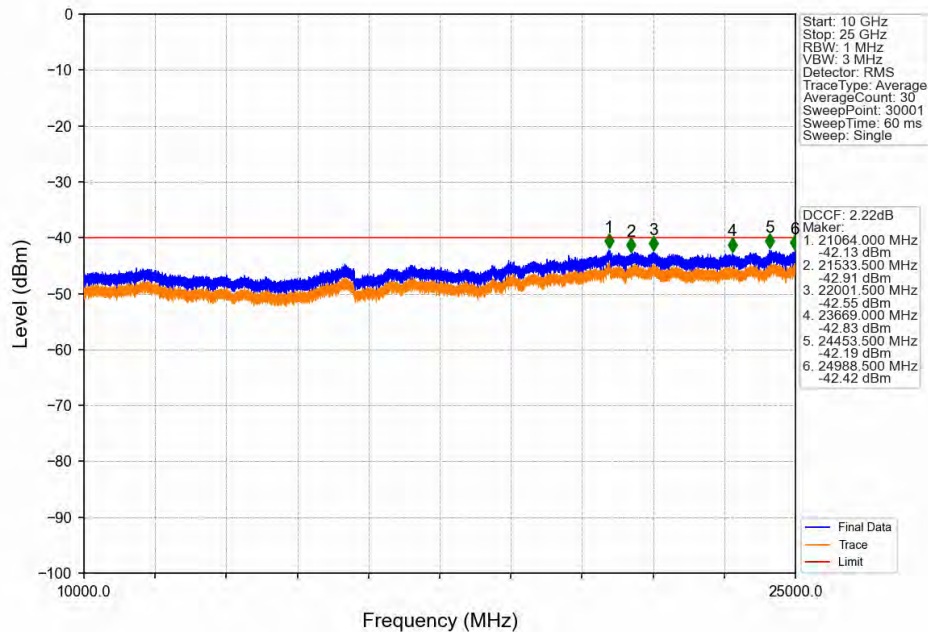
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Report No.: SUCR240100001701

Rev.: 01

Page: 192 of 307

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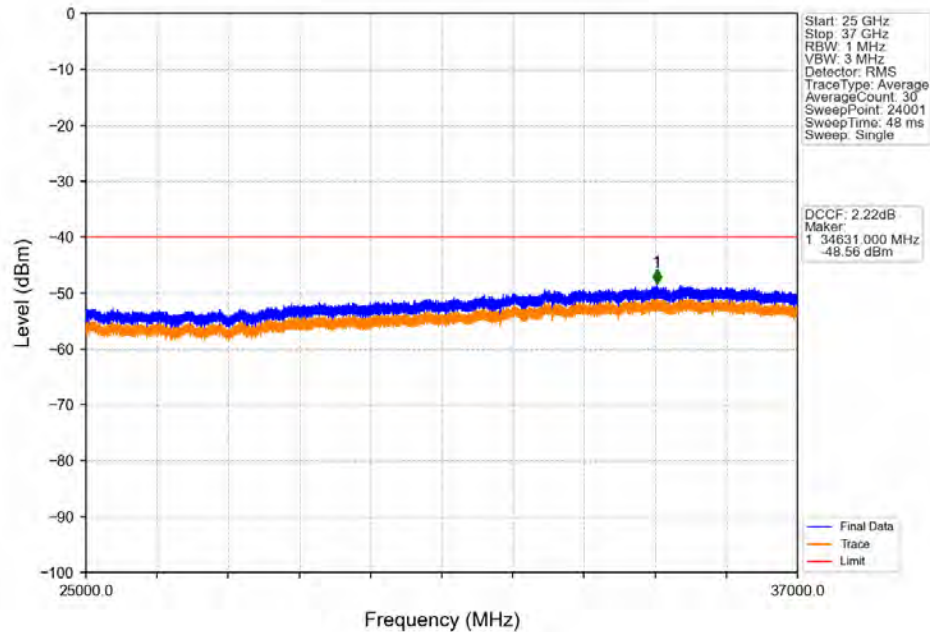
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Rev.: 01

Page: 193 of 307



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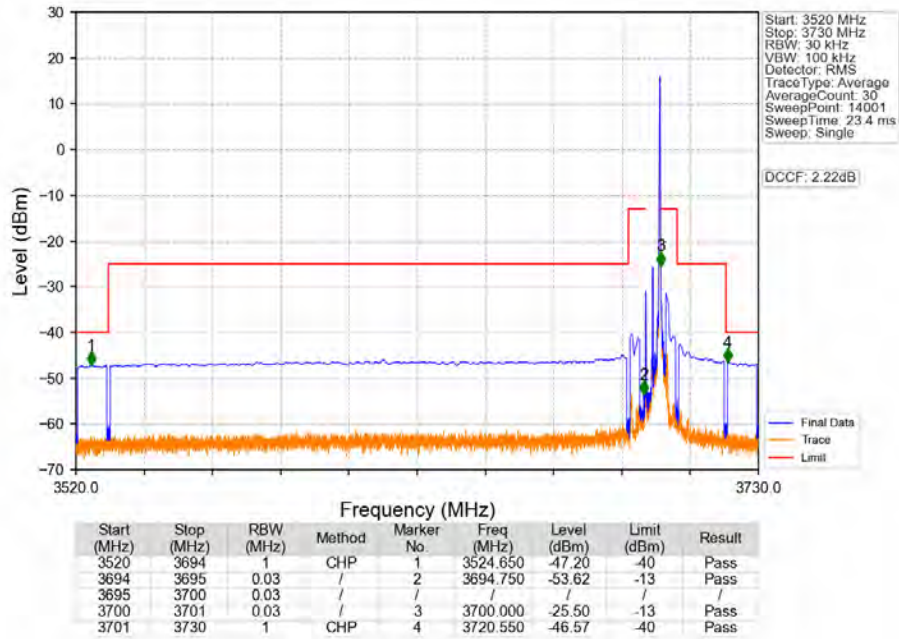
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Report No.: SUCR240100001701

Rev.: 01

Page: 194 of 307

Band48_5MHz_QPSK_HCH_3697.5MHz_RB_1_24_NTNV



Band48_5MHz_QPSK_HCH_3697.5MHz_RB_25_0_NTNV



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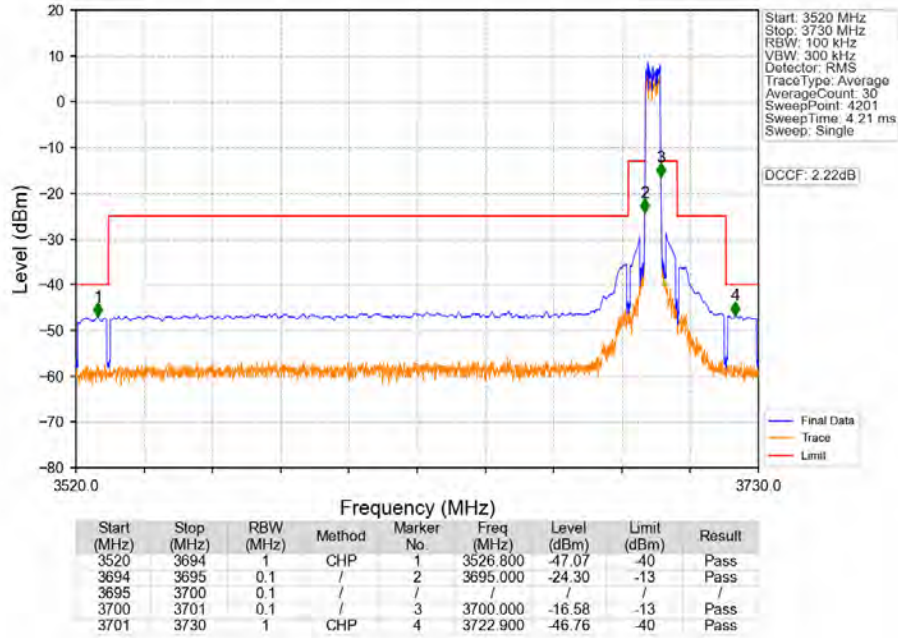
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Rev.: 01

Page: 195 of 307



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Report No.: SUCR240100001701

Rev.: 01

Page: 196 of 307

5.2 B48_10MHz

5.2.1 Test Result

Band: 48 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	3555	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	3625	1	0	Refer To Test Graph		Pass
	3695	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass



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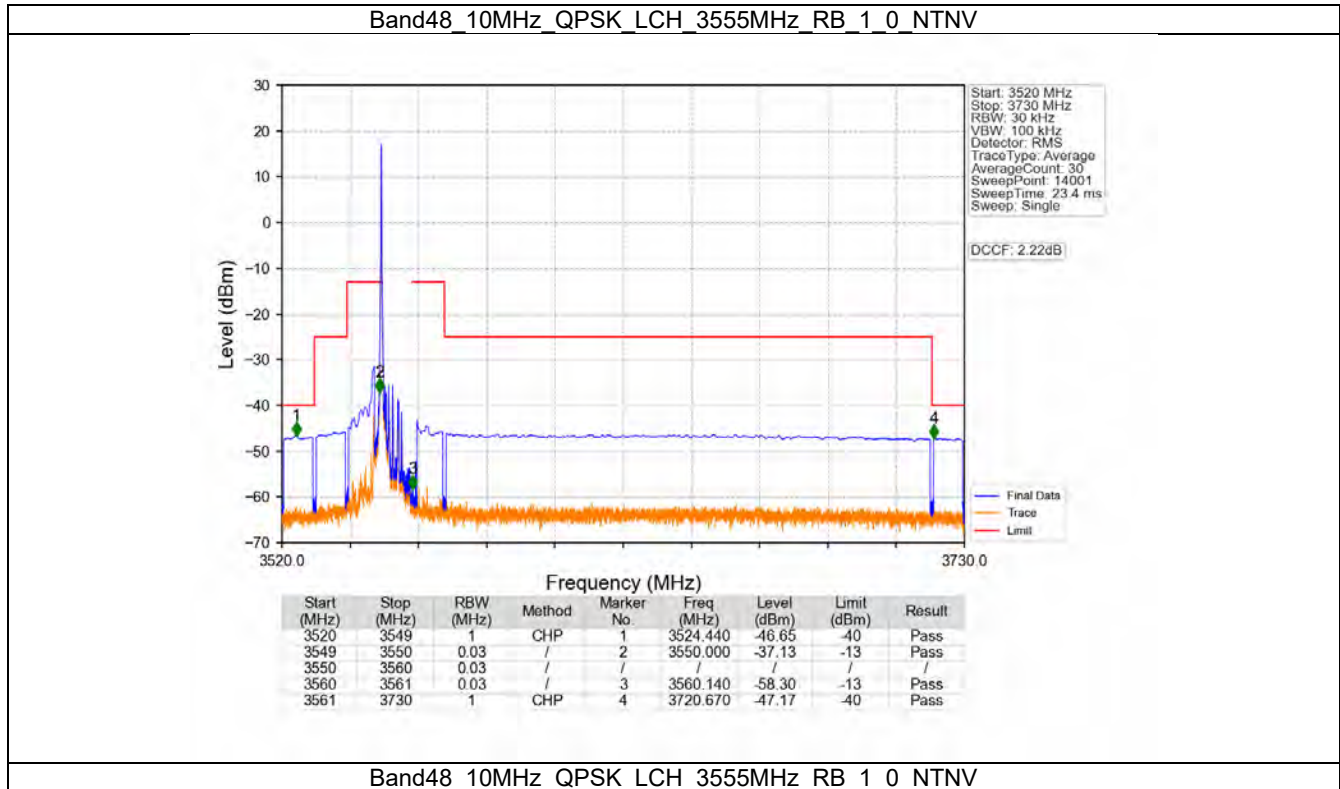
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Rev.: 01

Page: 197 of 307

5.2.2 Test Graph



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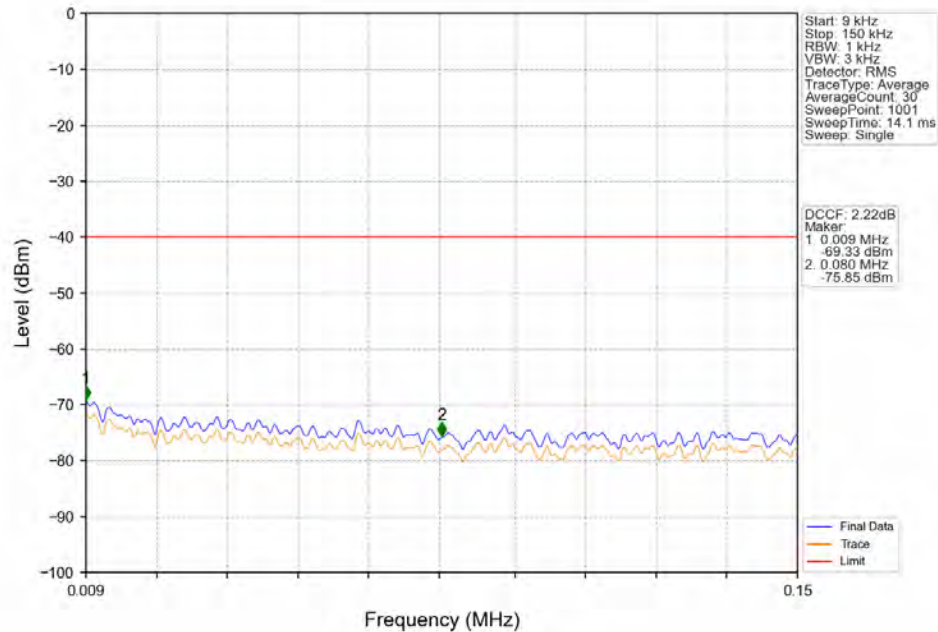
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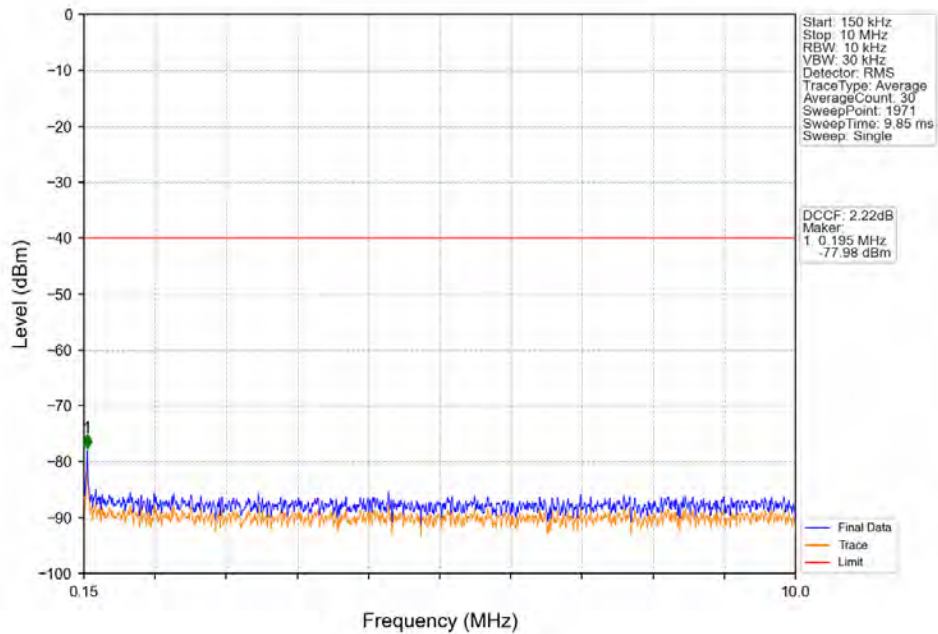
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Rev.: 01

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Band48_10MHz_QPSK_LCH_3555MHz_RB_1_0_NTNV



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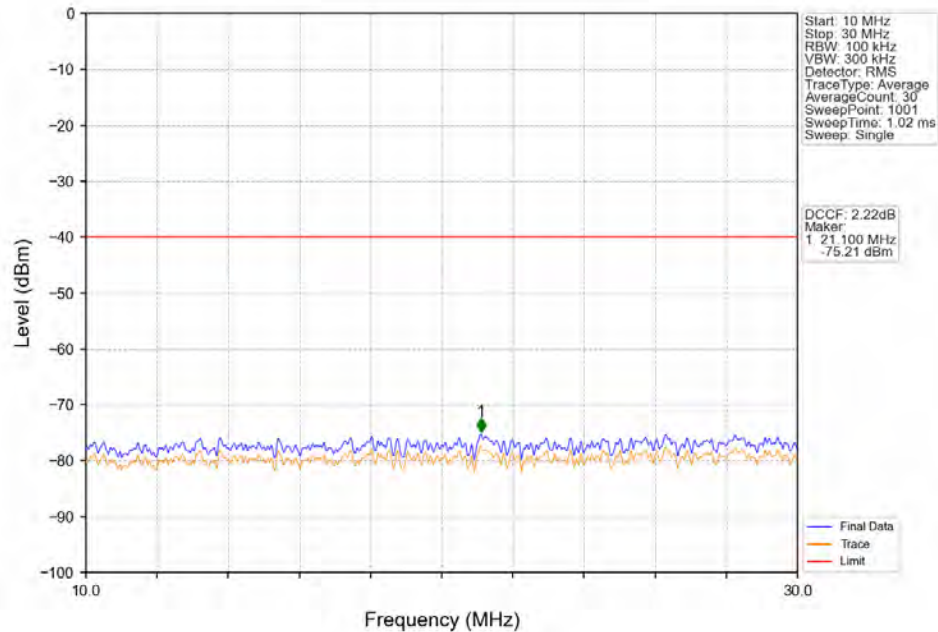
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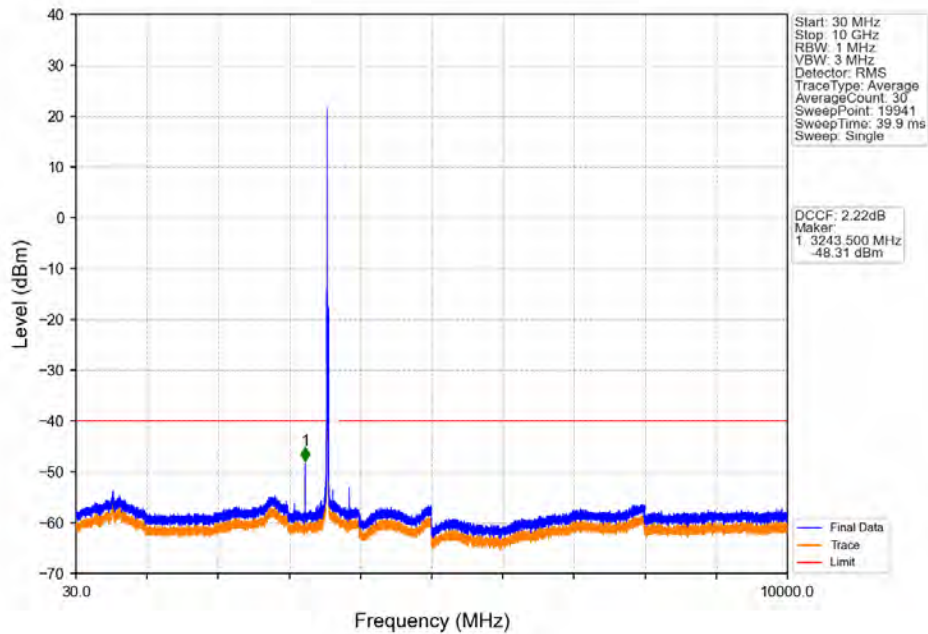
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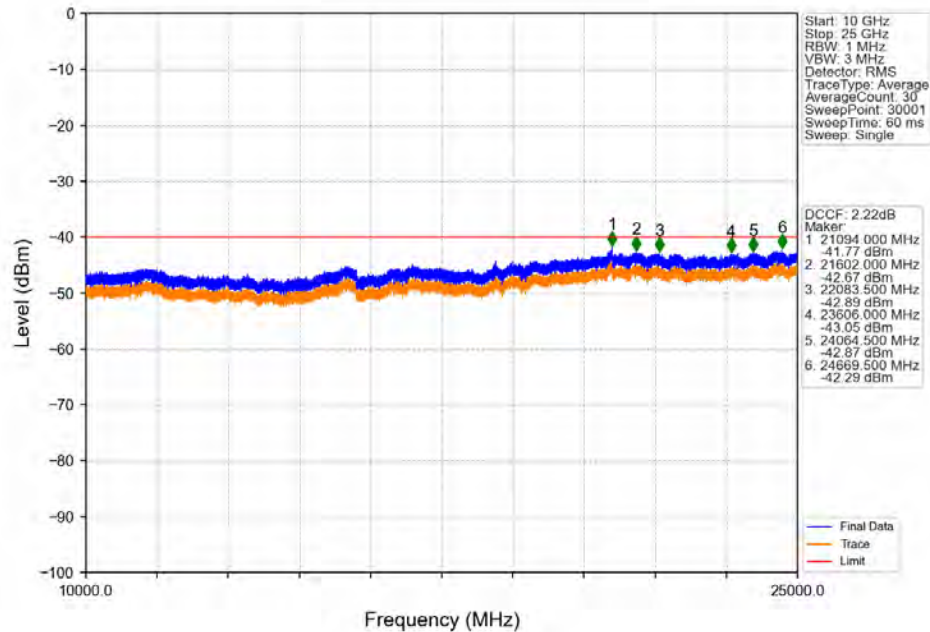
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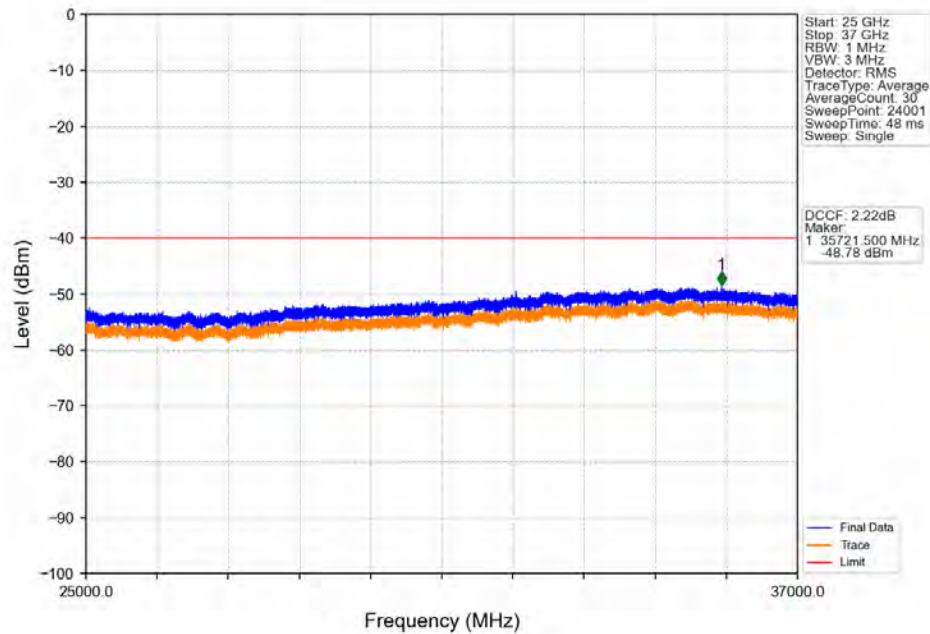
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Report No.: SUCR240100001701

Rev.: 01

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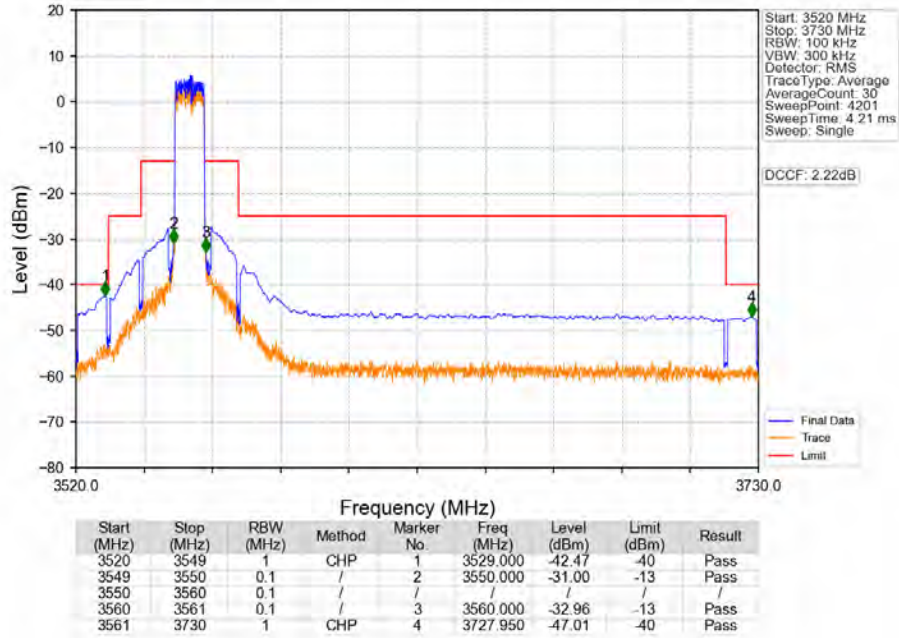
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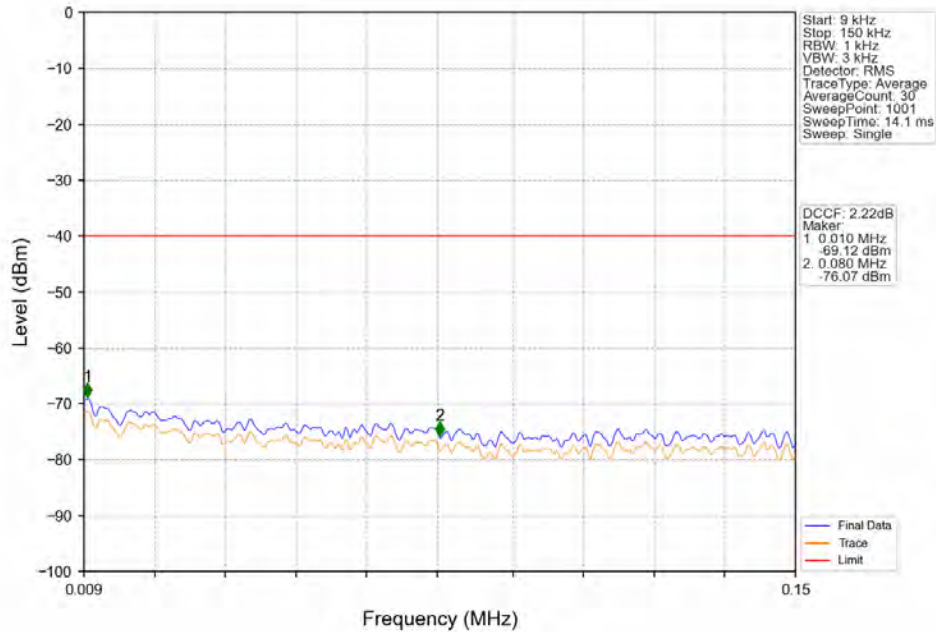
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Rev.: 01

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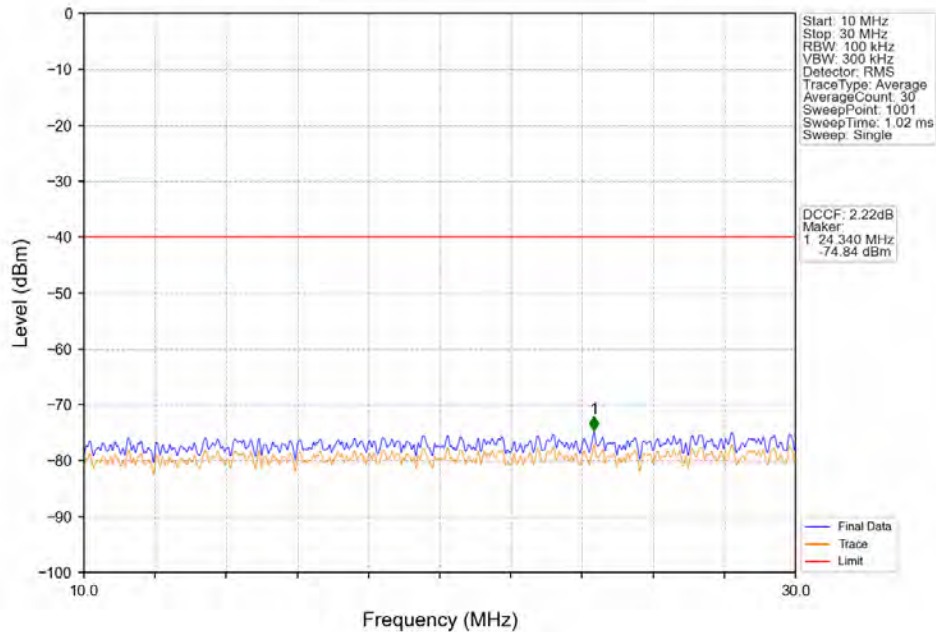
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Rev.: 01

Page: 206 of 307



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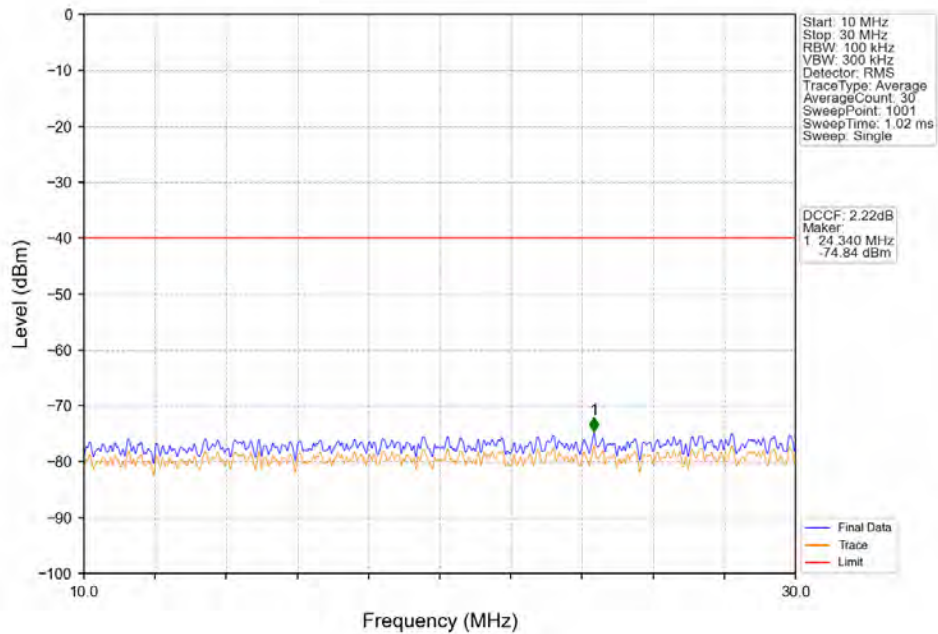
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Report No.: SUCR240100001701

Rev.: 01

Page: 207 of 307

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Band48_10MHz_QPSK_MCH_3625MHz_RB_1_0_NTNV



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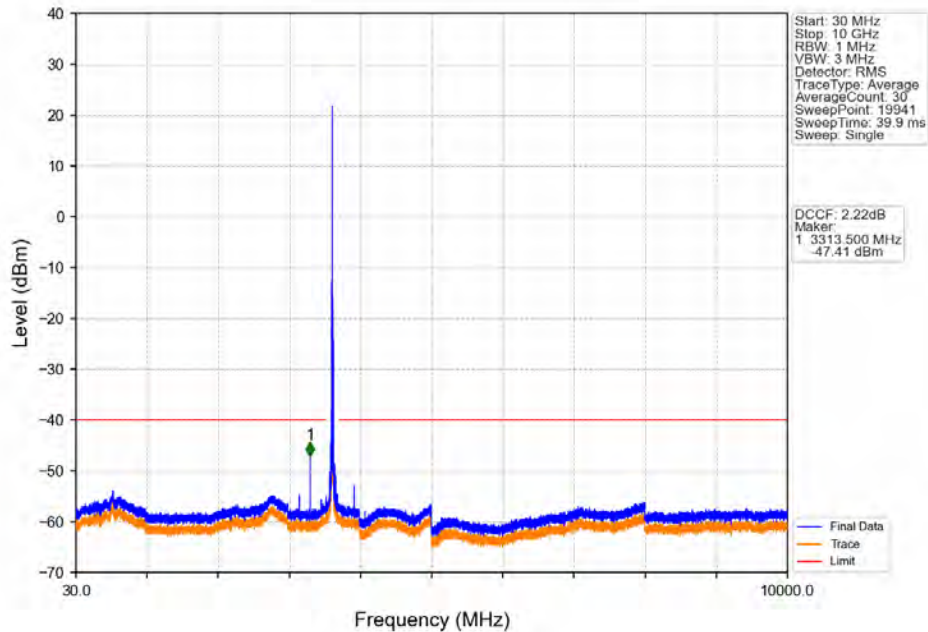
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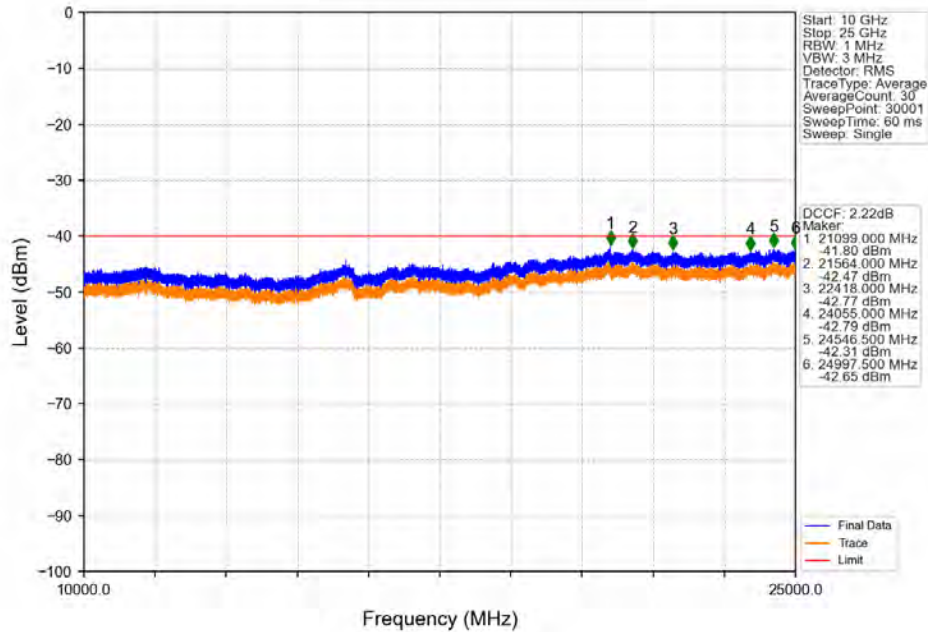
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Report No.: SUCR240100001701

Rev.: 01

Page: 209 of 307

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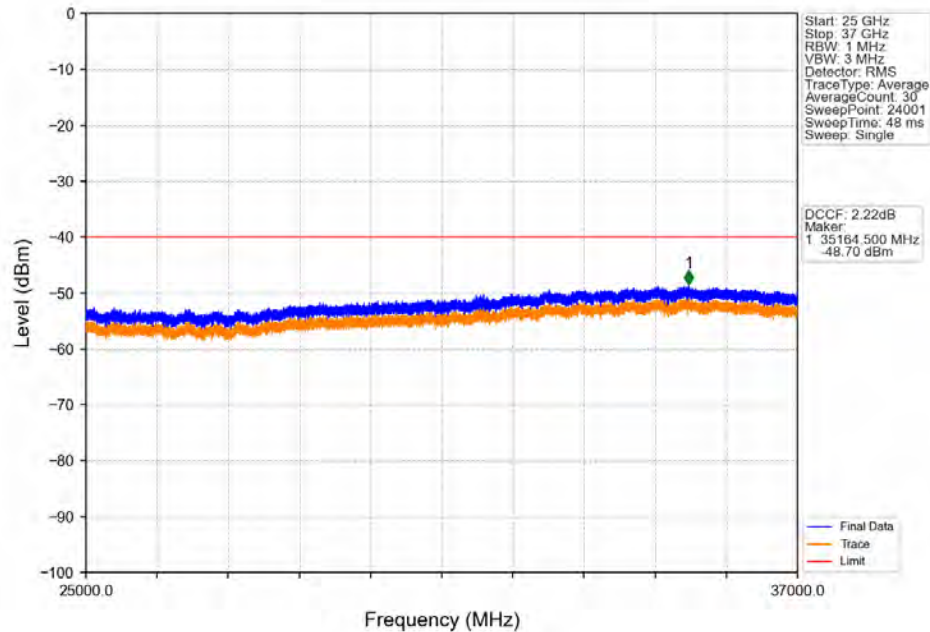
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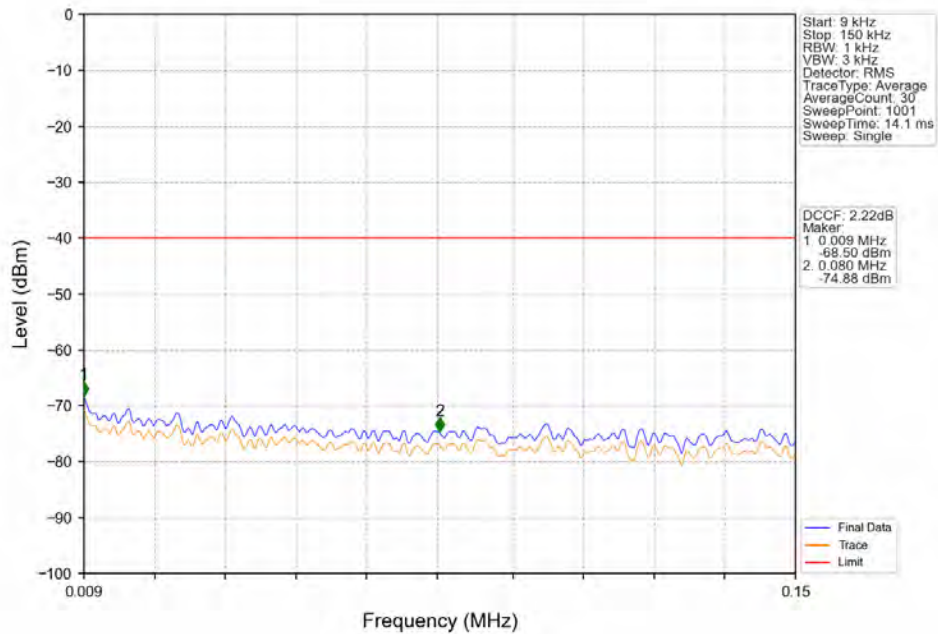
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Report No.: SUCR240100001701

Rev.: 01

Page: 211 of 307

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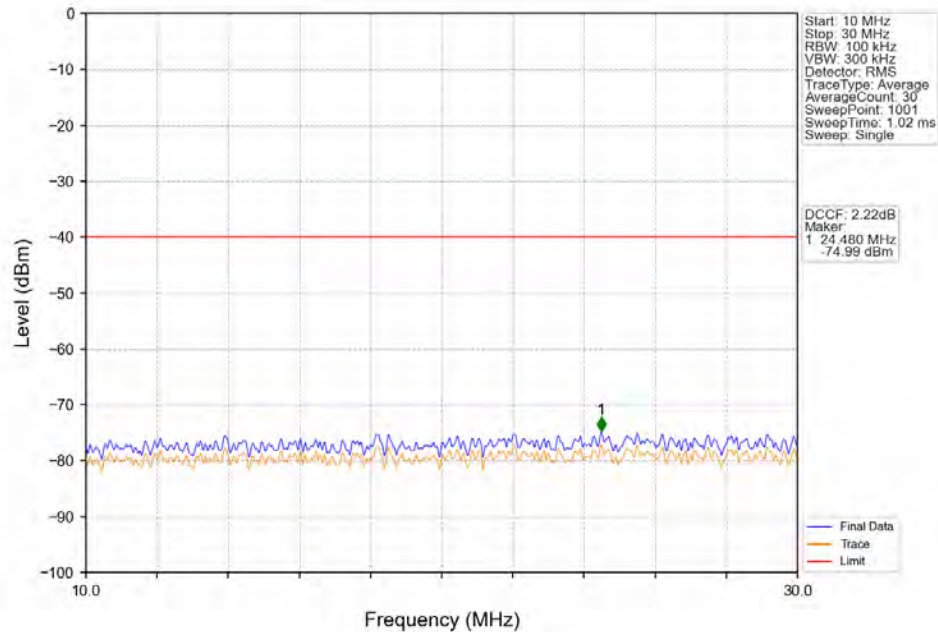
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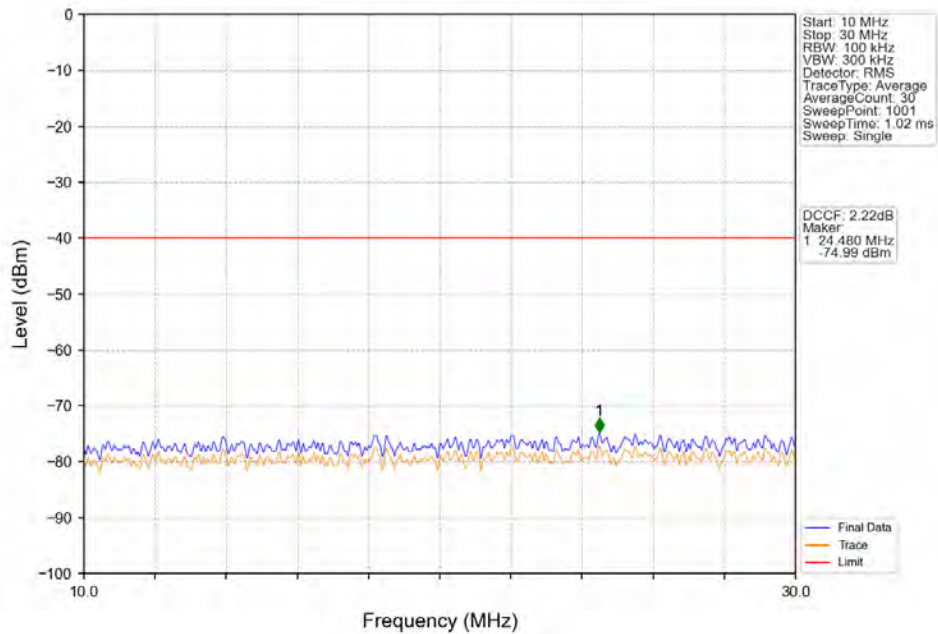
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Band48 10MHz QPSK HCH 3695MHz RB 1 0 NTNV



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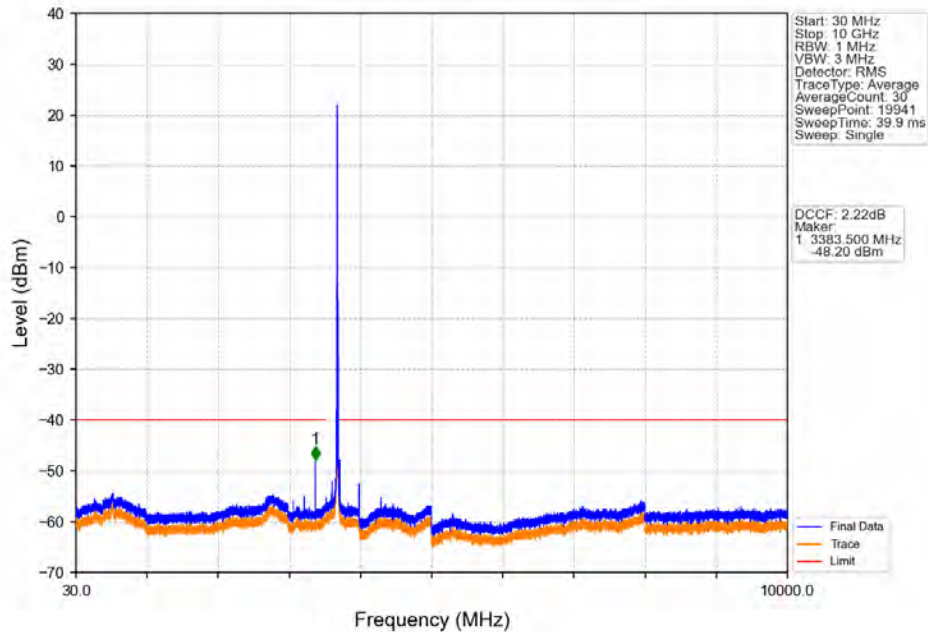
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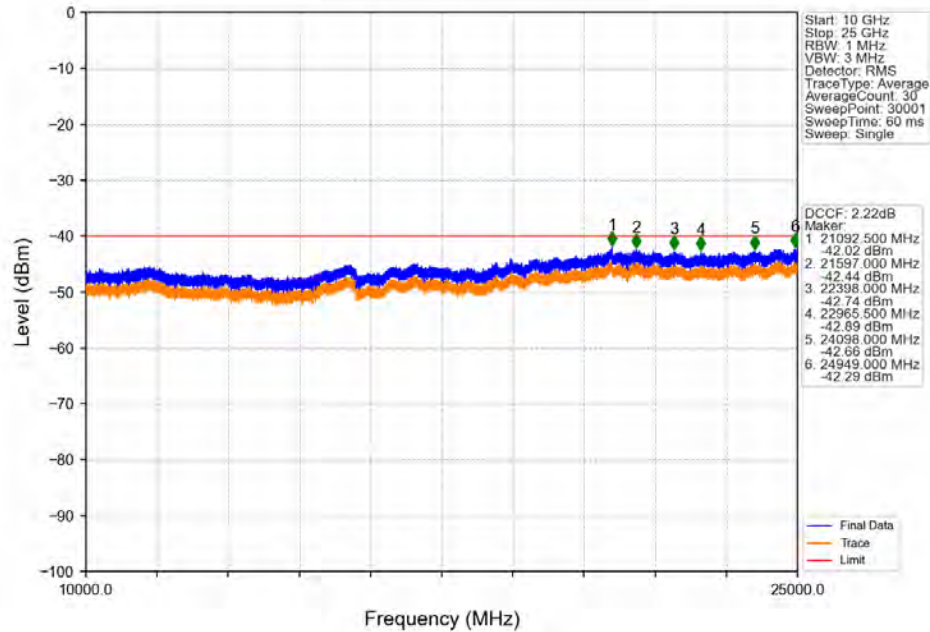
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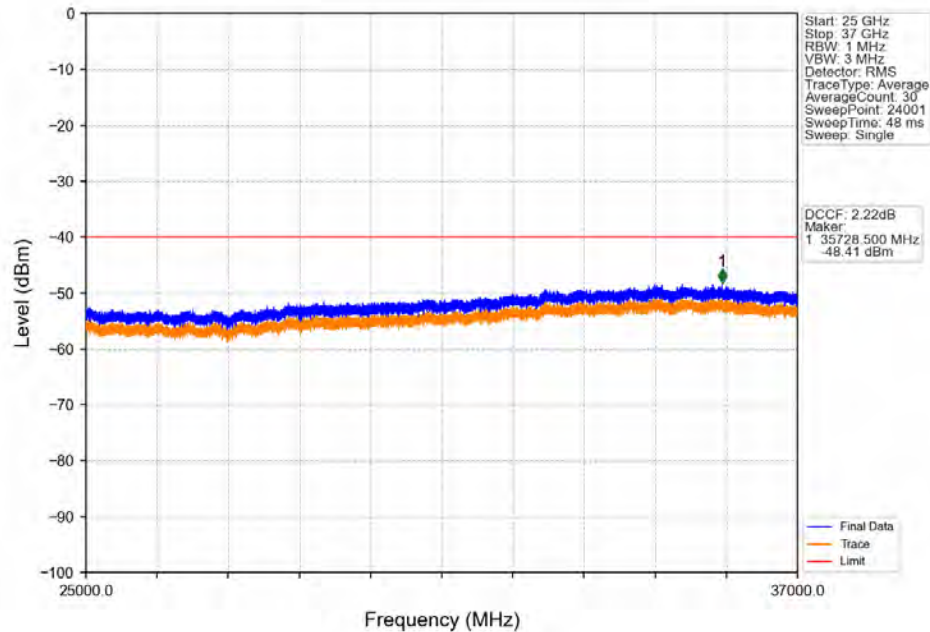
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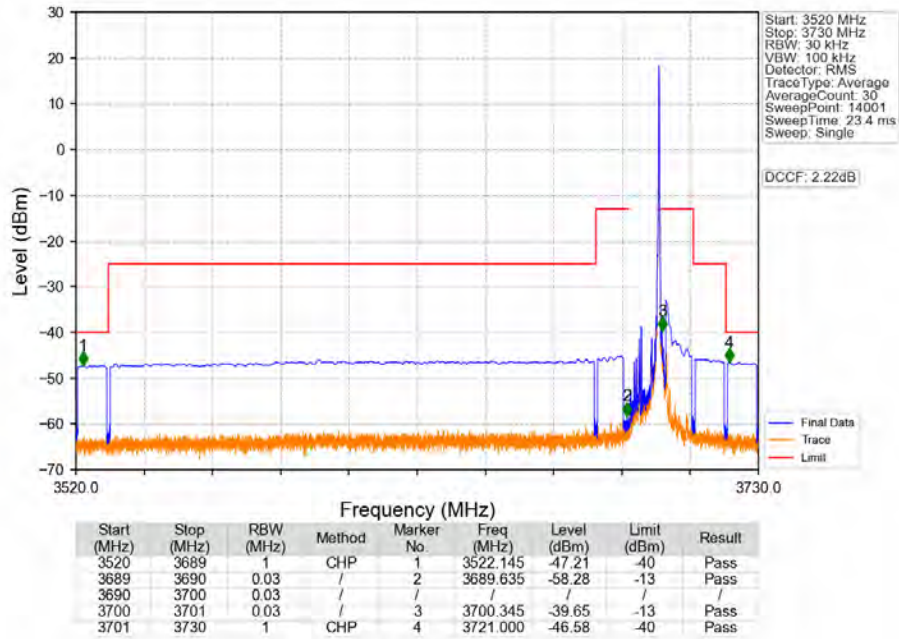
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Rev.: 01

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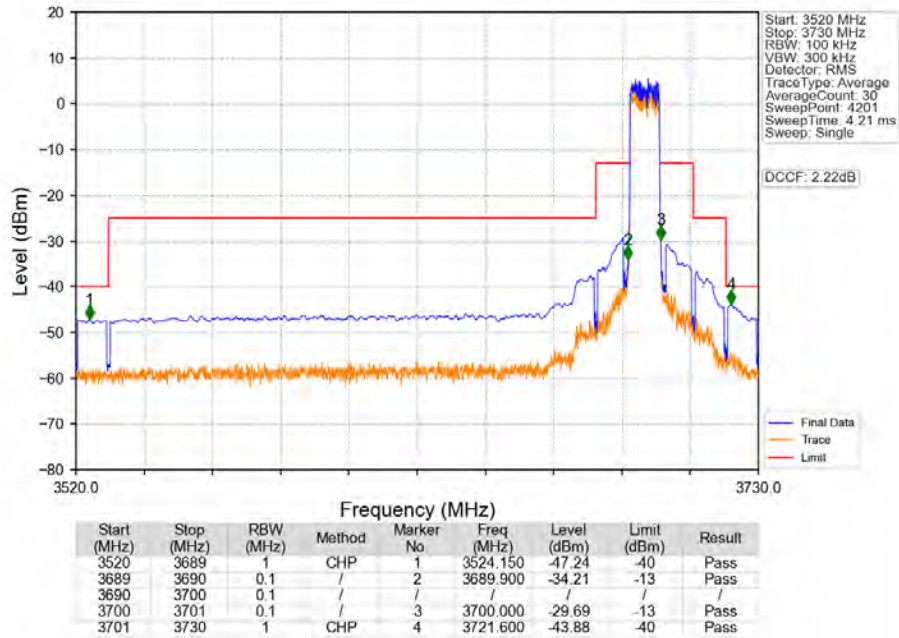
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Report No.: SUCR240100001701

Rev.: 01

Page: 219 of 307

5.3 B48_15MHz

5.3.1 Test Result

Band: 48 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	3557.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	3625	1	0	Refer To Test Graph		Pass
	3692.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass



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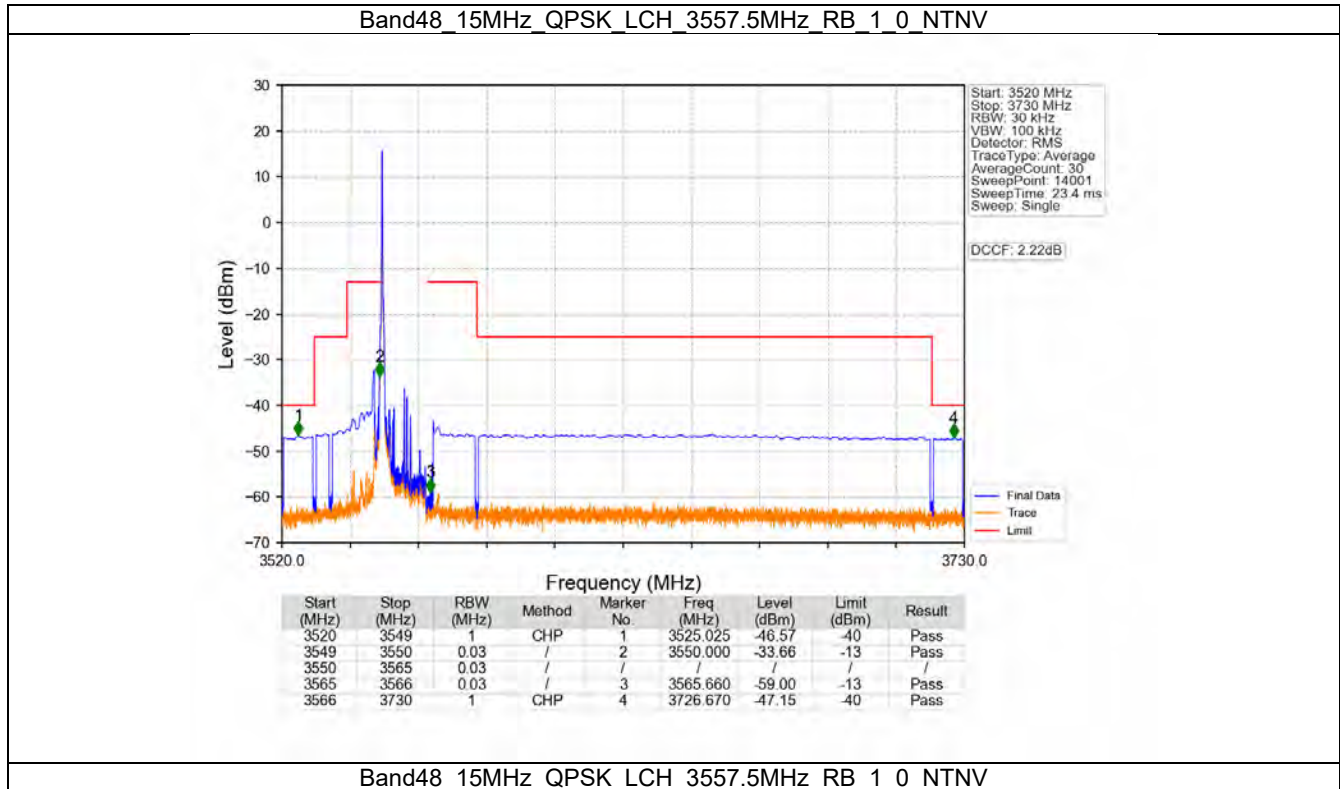
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Report No.: SUCR240100001701

Rev.: 01

Page: 220 of 307

5.3.2 Test Graph



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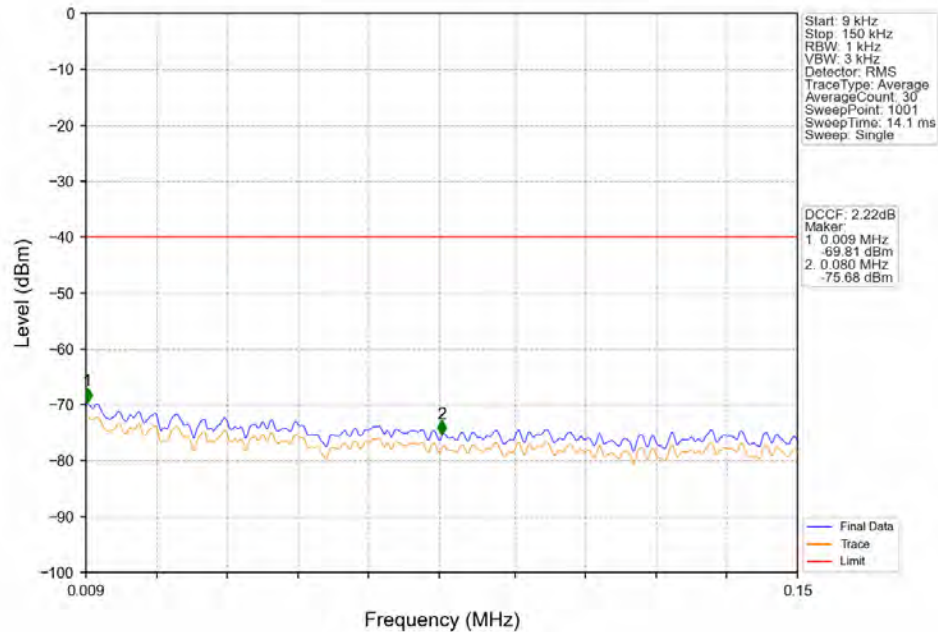
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Rev.: 01

Page: 221 of 307



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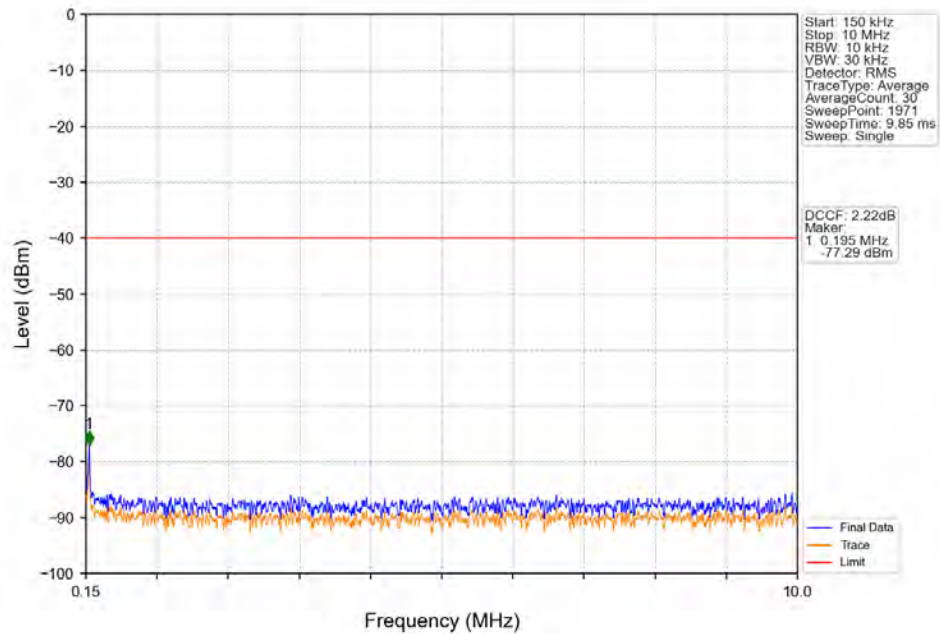
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Report No.: SUCR240100001701

Rev.: 01

Page: 222 of 307

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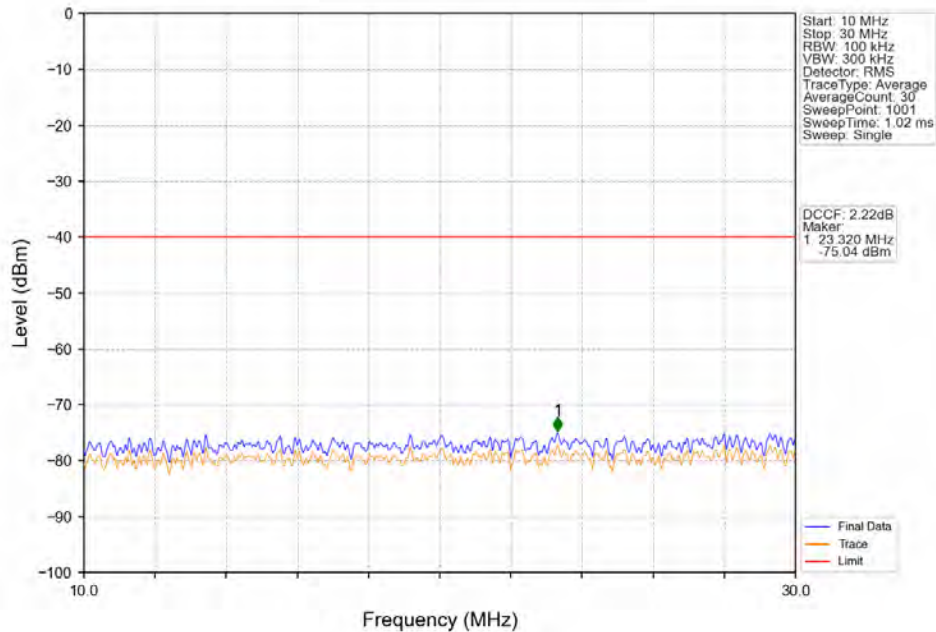
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Report No.: SUCR240100001701

Rev.: 01

Page: 223 of 307



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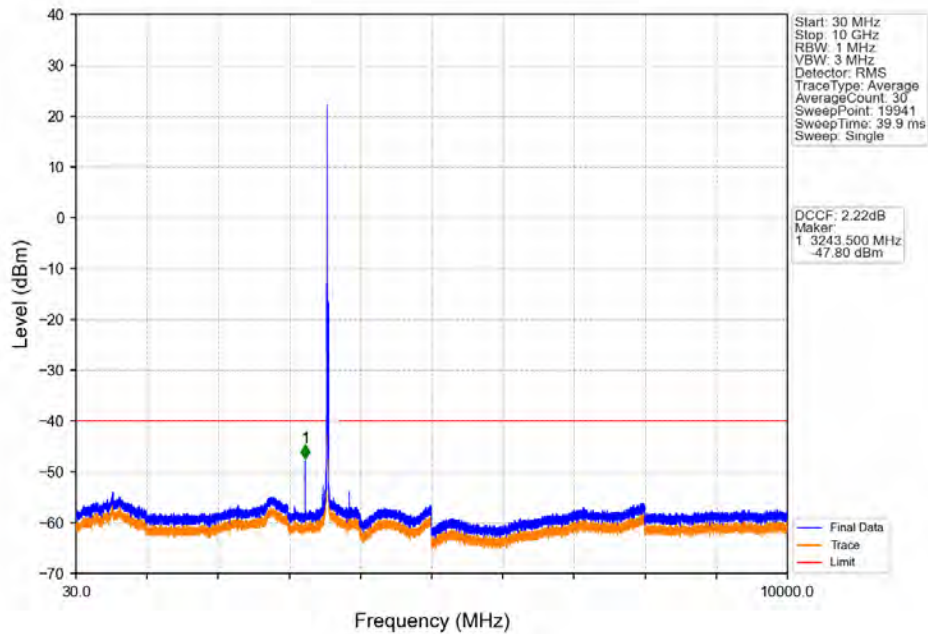
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Report No.: SUCR240100001701

Rev.: 01

Page: 224 of 307

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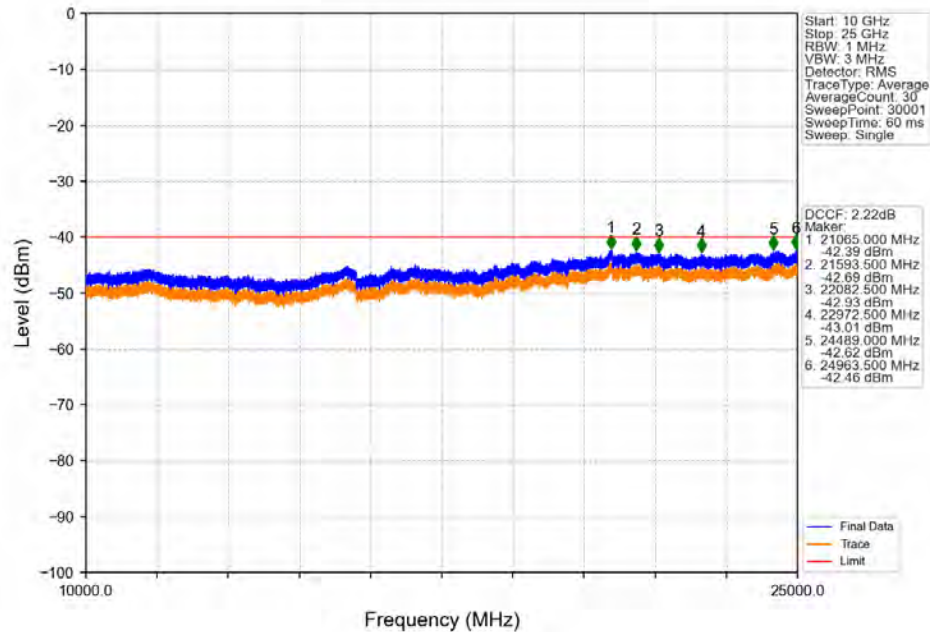
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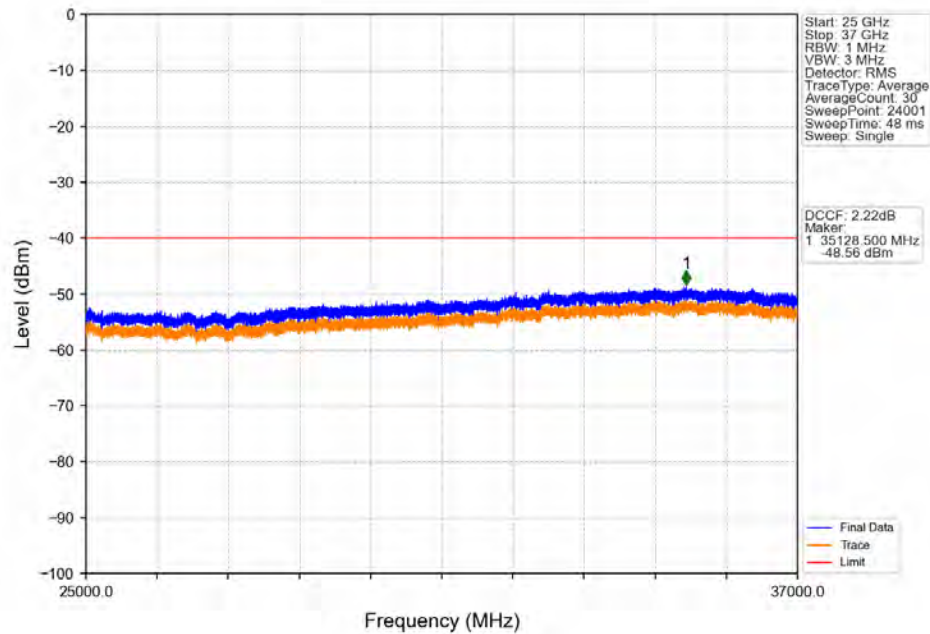
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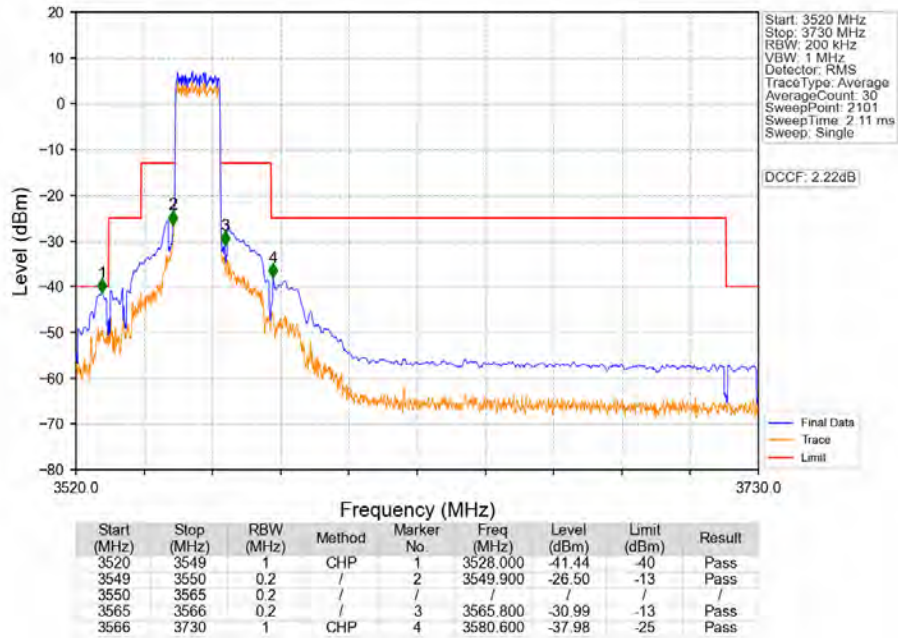
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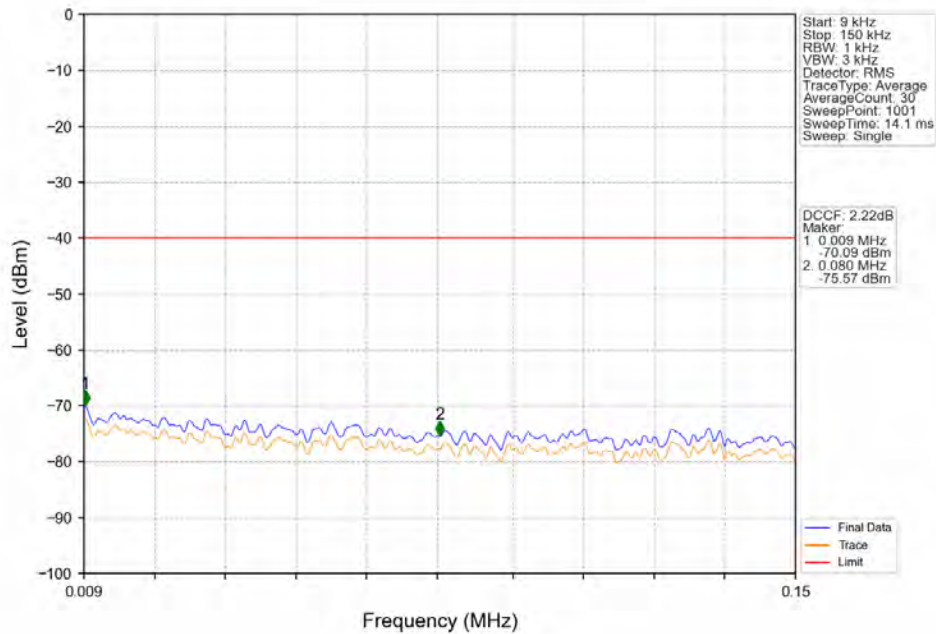
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Rev.: 01

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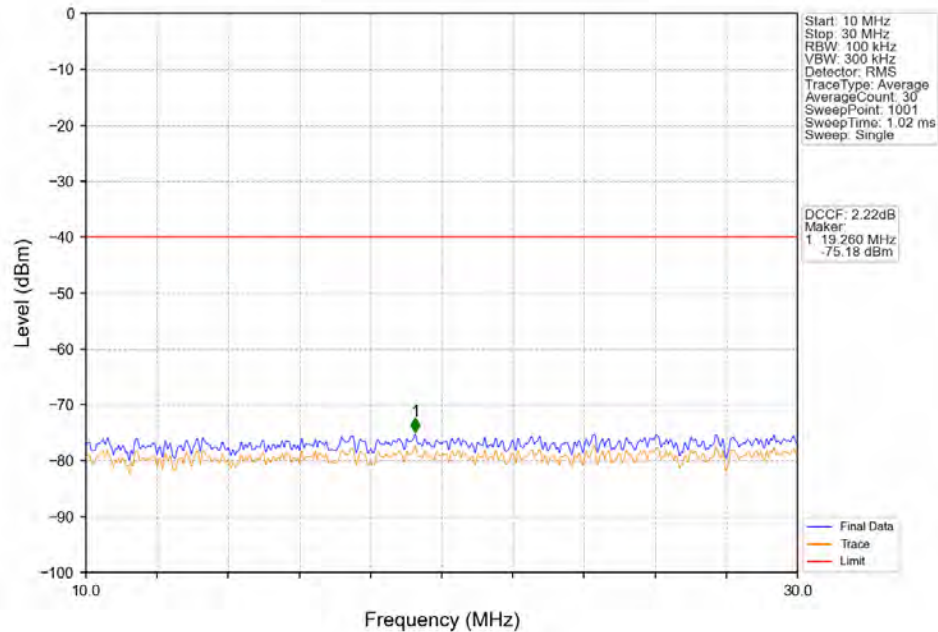
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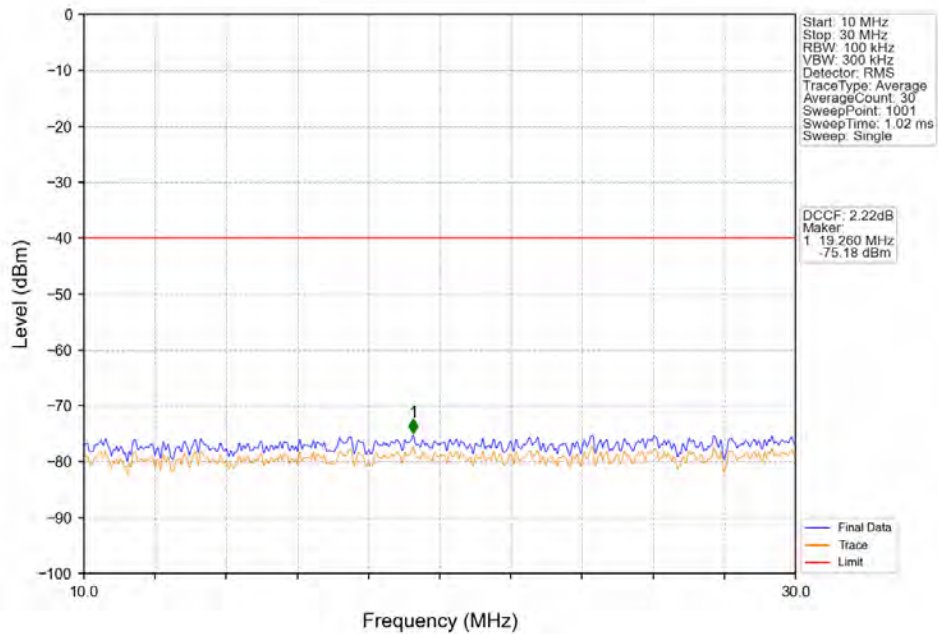
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Report No.: SUCR240100001701

Rev.: 01

Page: 230 of 307

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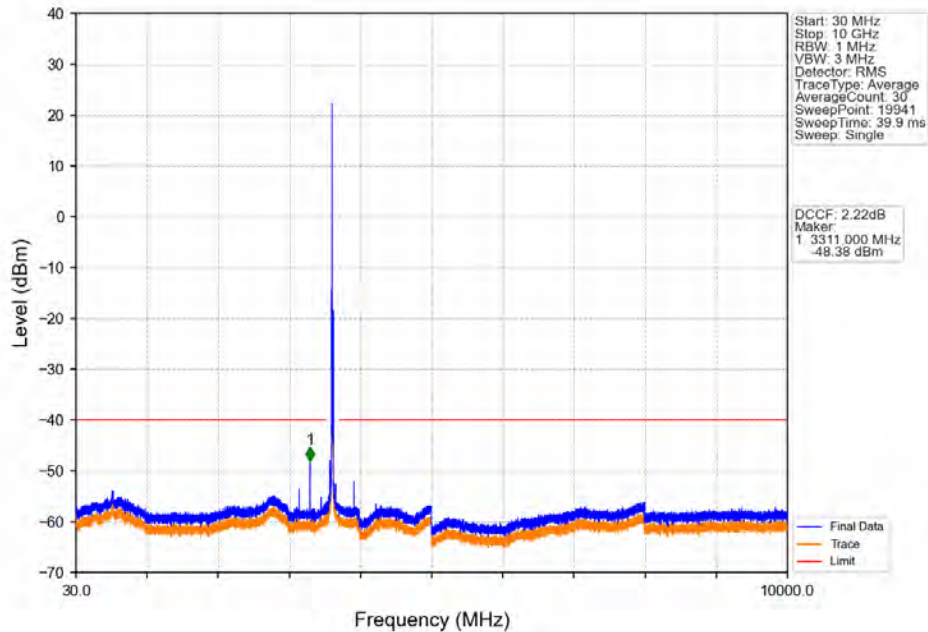
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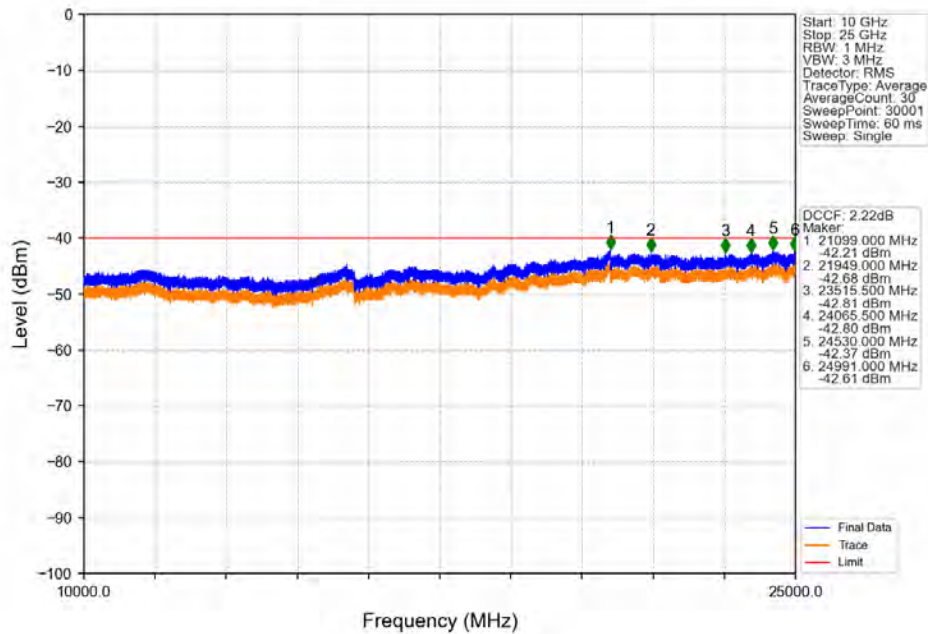
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Report No.: SUCR240100001701

Rev.: 01

Page: 232 of 307

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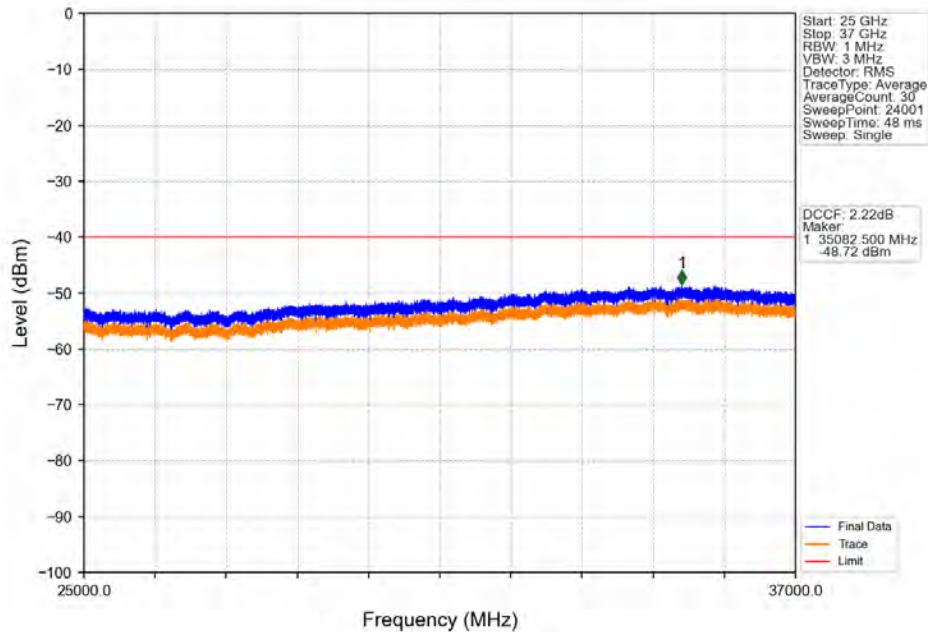
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Report No.: SUCR240100001701

Rev.: 01

Page: 233 of 307



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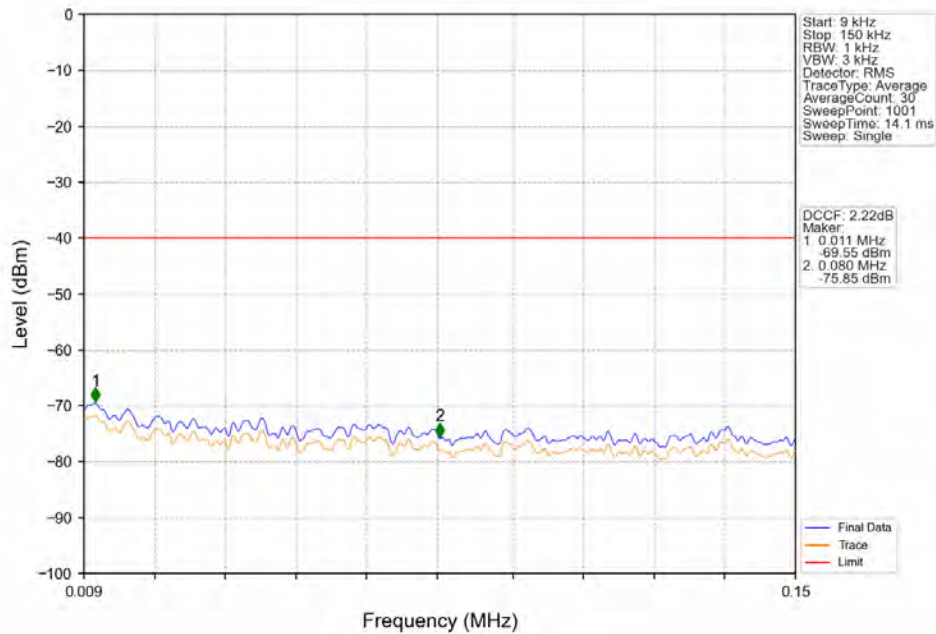
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Rev.: 01

Page: 234 of 307

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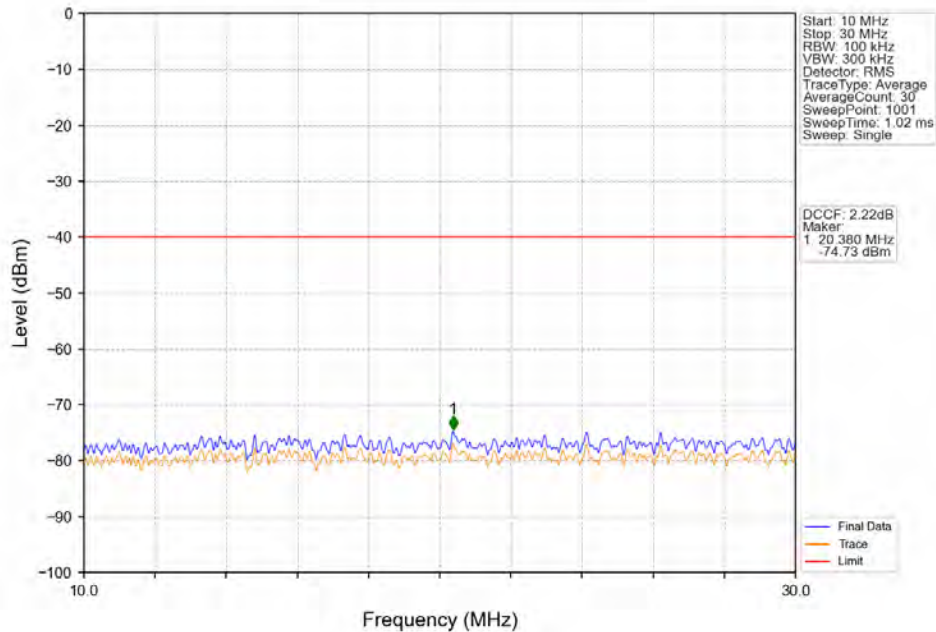
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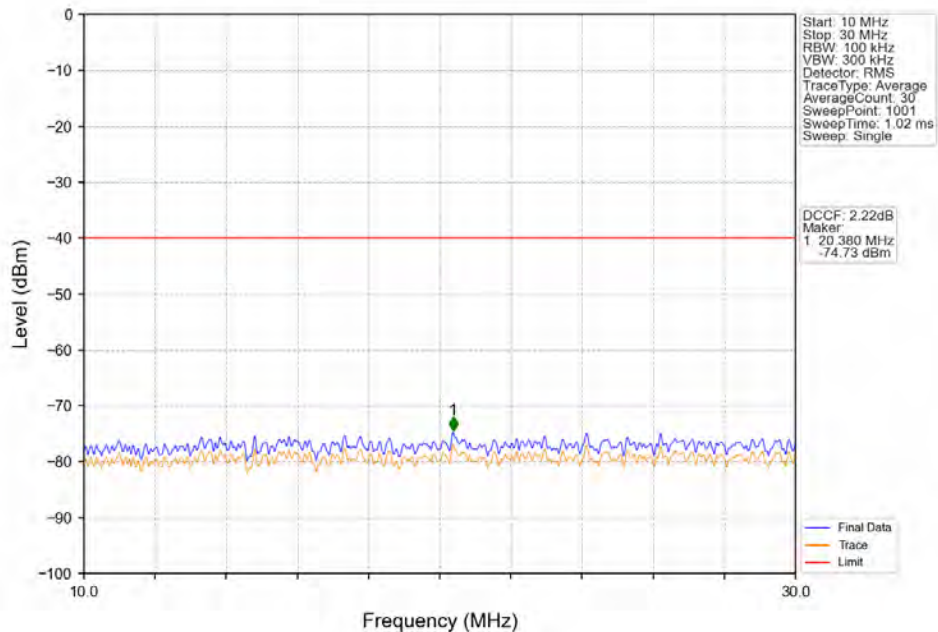
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Page: 236 of 307

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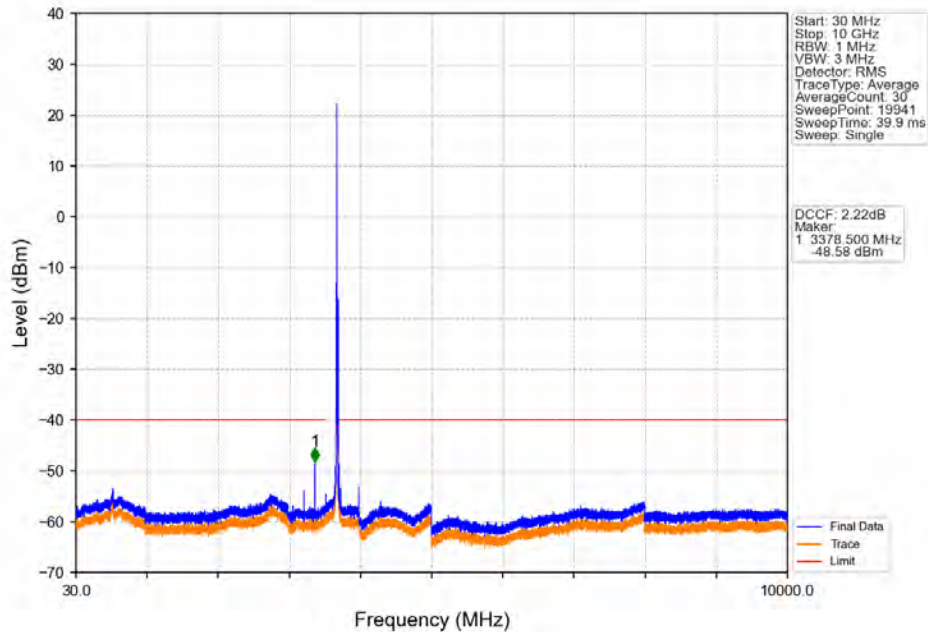
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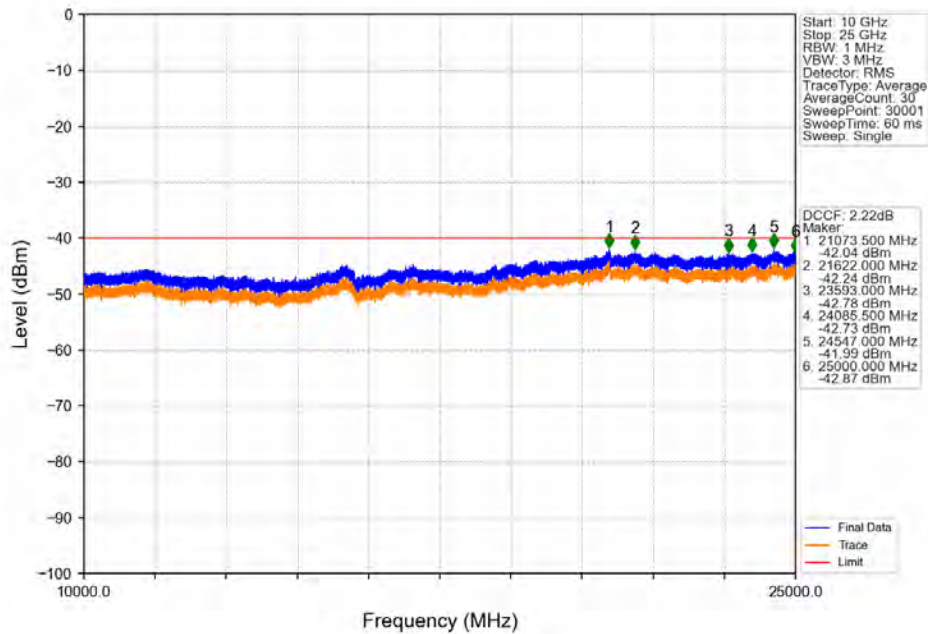
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Rev.: 01

Page: 238 of 307

Band48_15MHz_QPSK_HCH_3692.5MHz_RB_1_0_NTNV



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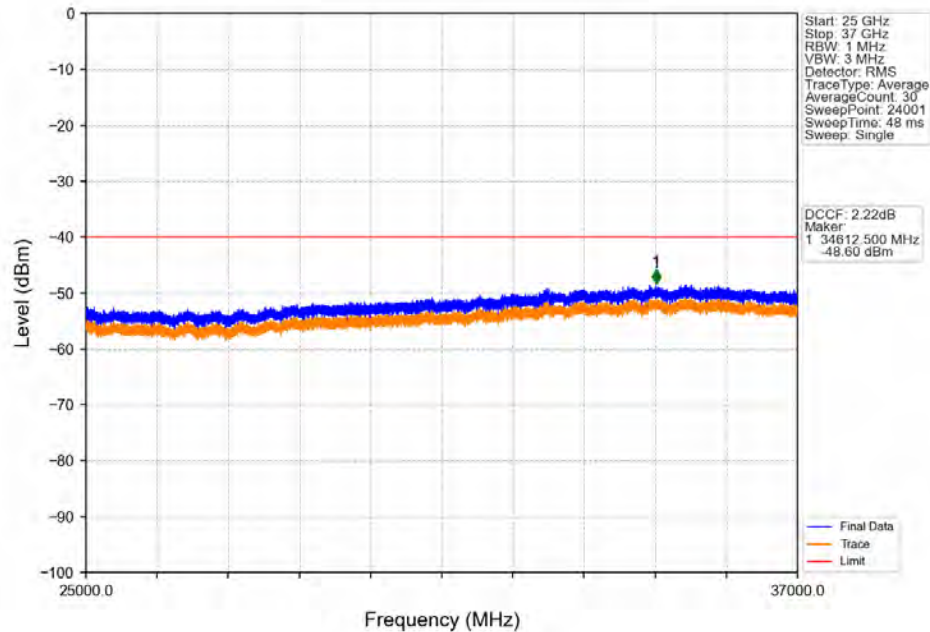
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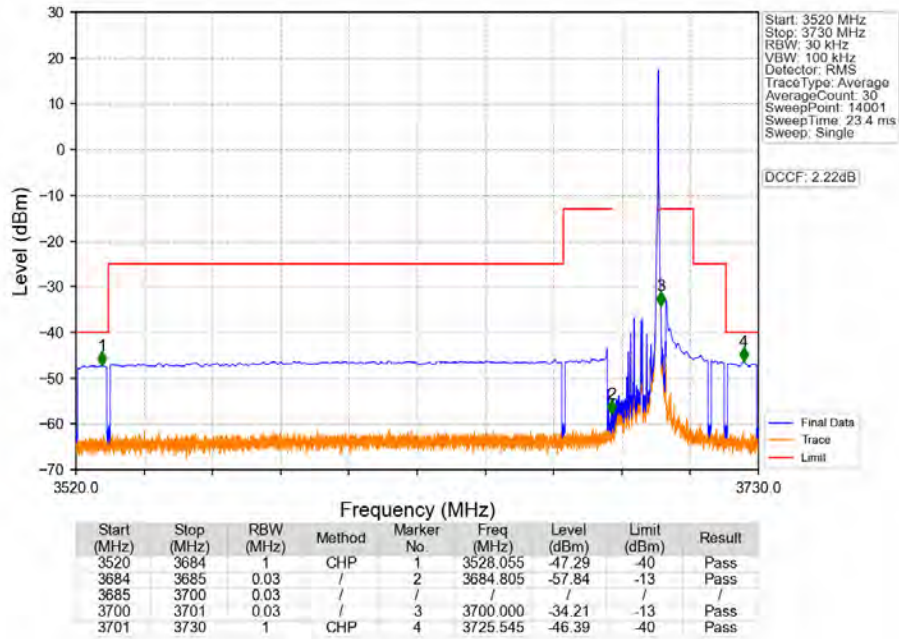
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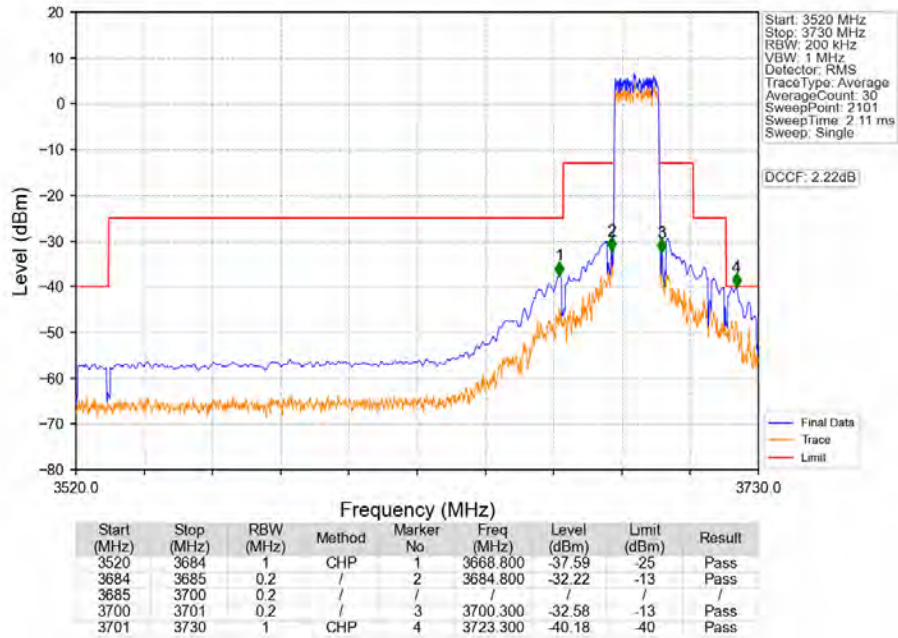
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Rev.: 01

Page: 242 of 307

5.4 B48_20MHz

5.4.1 Test Result

Band: 48 / Bandwidth: 20MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	3560	1	0	Refer To Test Graph	Pass
		100	0	Refer To Test Graph	Pass
	3625	1	0	Refer To Test Graph	Pass
	3690	1	0	Refer To Test Graph	Pass
			99	Refer To Test Graph	Pass
		100	0	Refer To Test Graph	Pass



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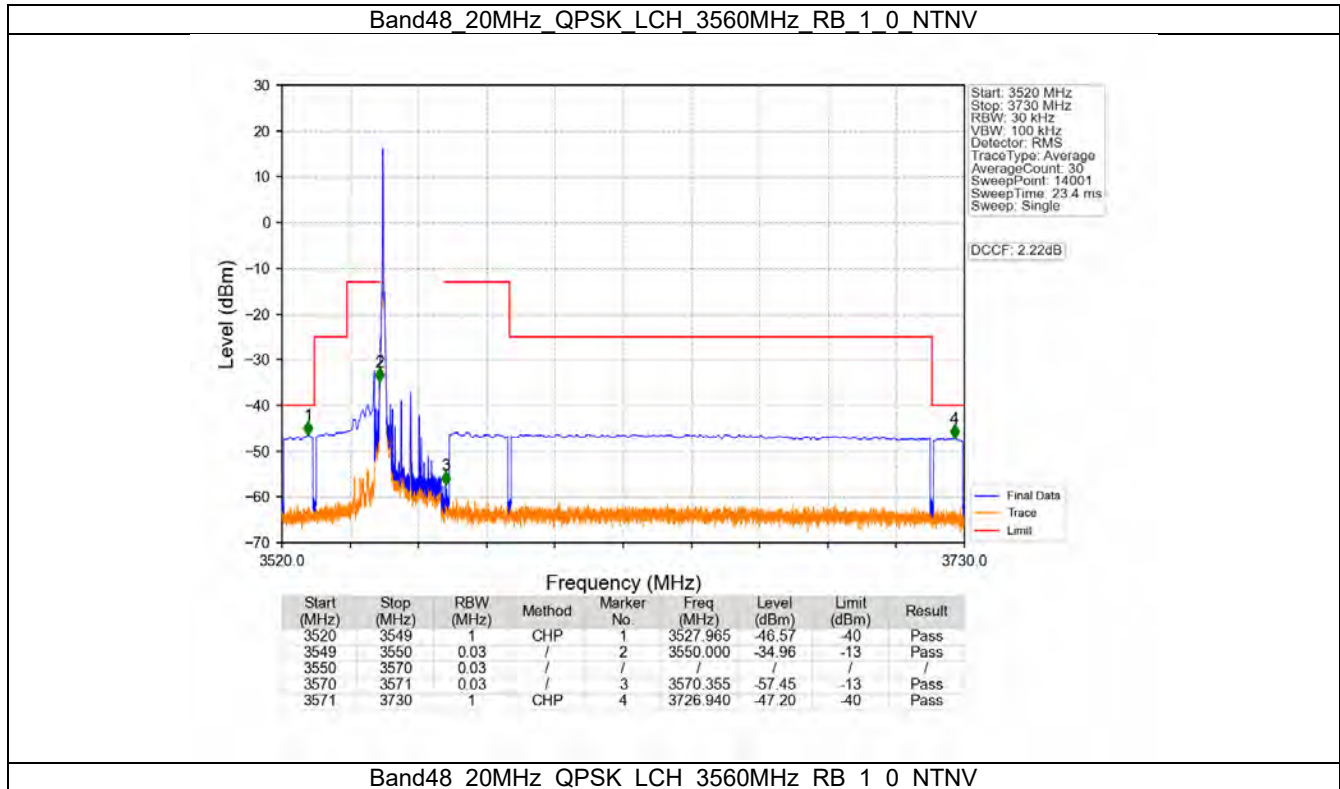
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5.4.2 Test Graph



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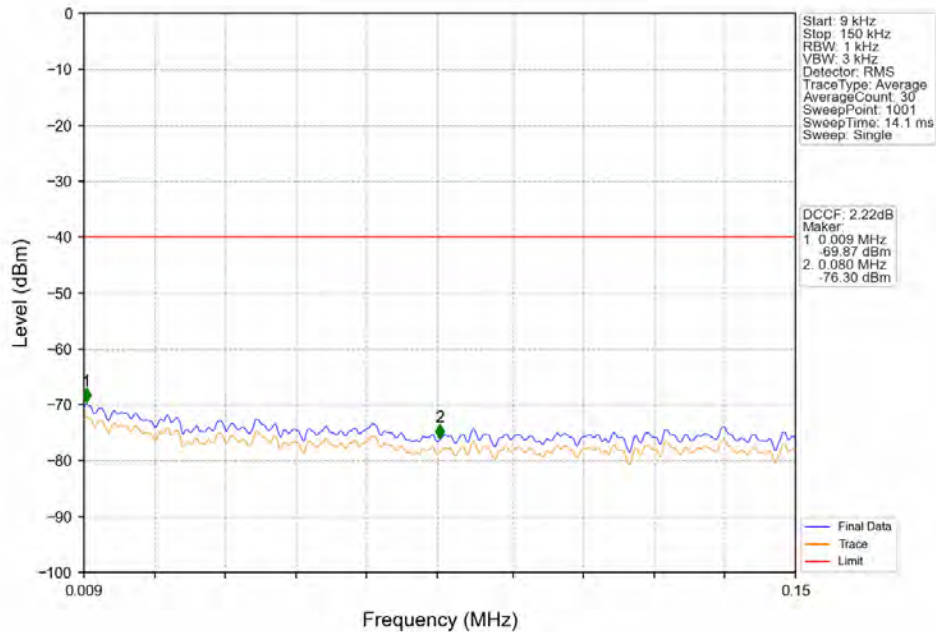
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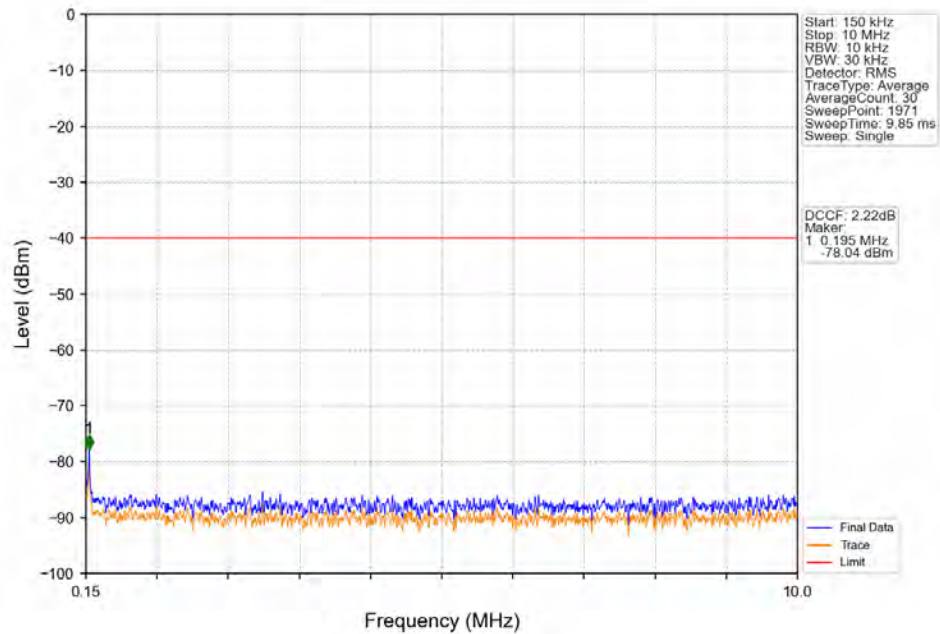
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Rev.: 01

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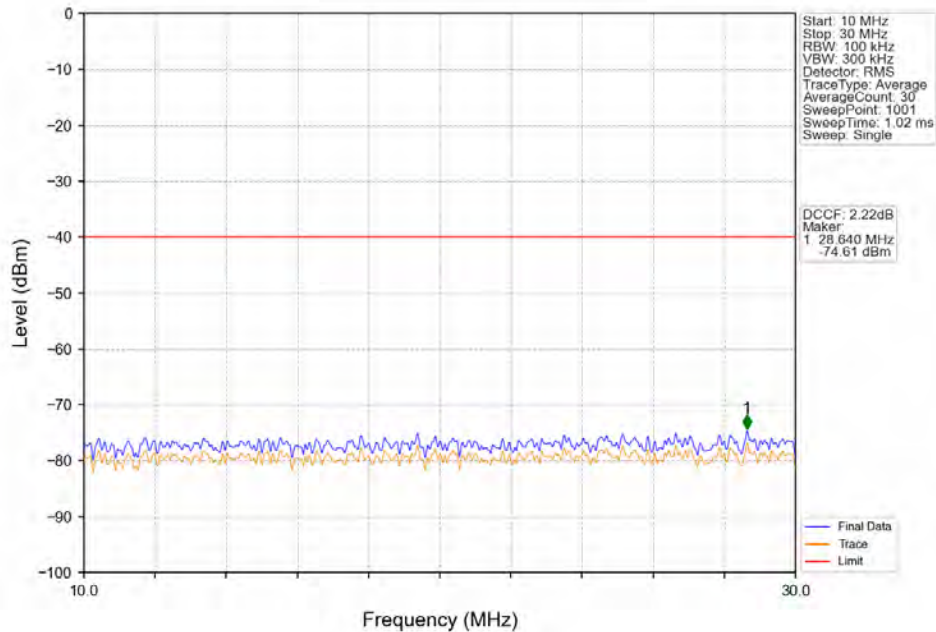
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Report No.: SUCR240100001701

Rev.: 01

Page: 246 of 307



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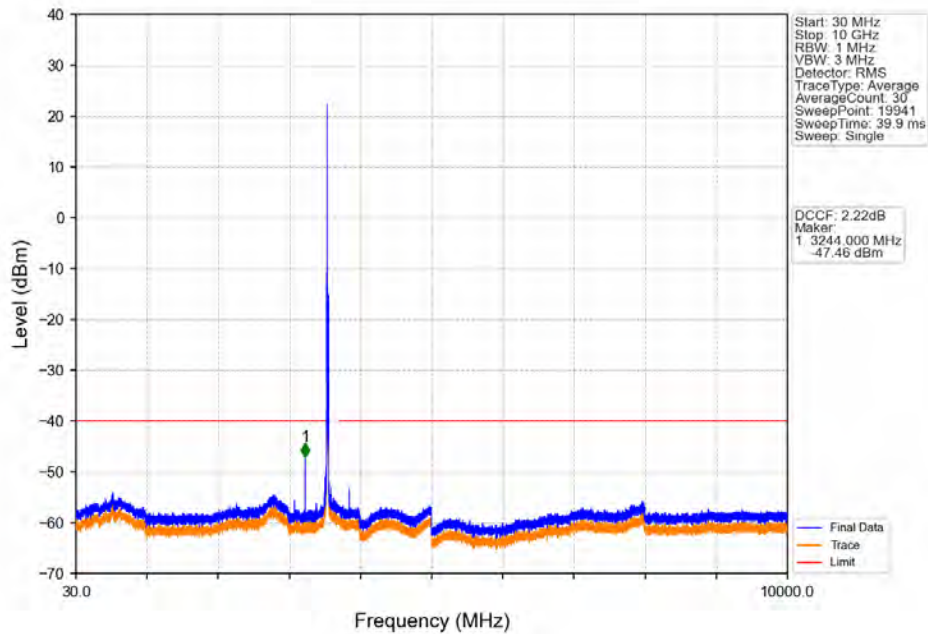
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Report No.: SUCR240100001701

Rev.: 01

Page: 247 of 307

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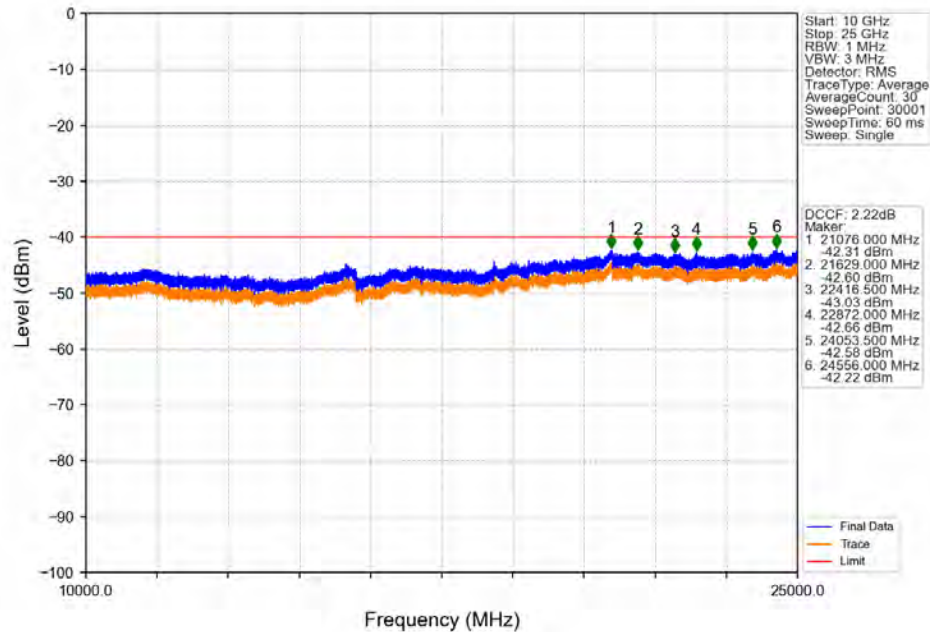
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Report No.: SUCR240100001701

Rev.: 01

Page: 248 of 307



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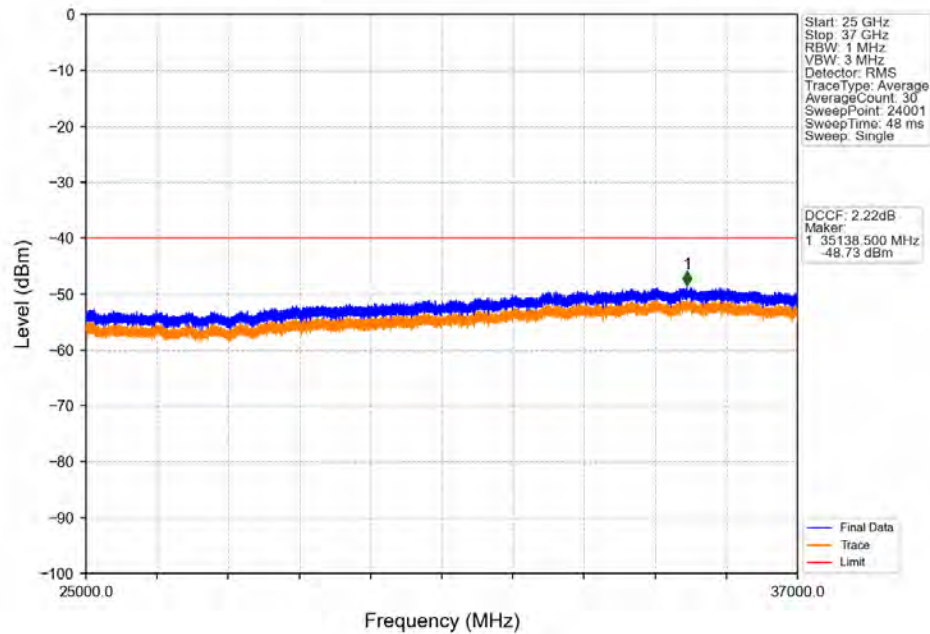
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Report No.: SUCR240100001701

Rev.: 01

Page: 249 of 307

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Band48_20MHz_QPSK_LCH_3560MHz_RB_100_0_NTNV



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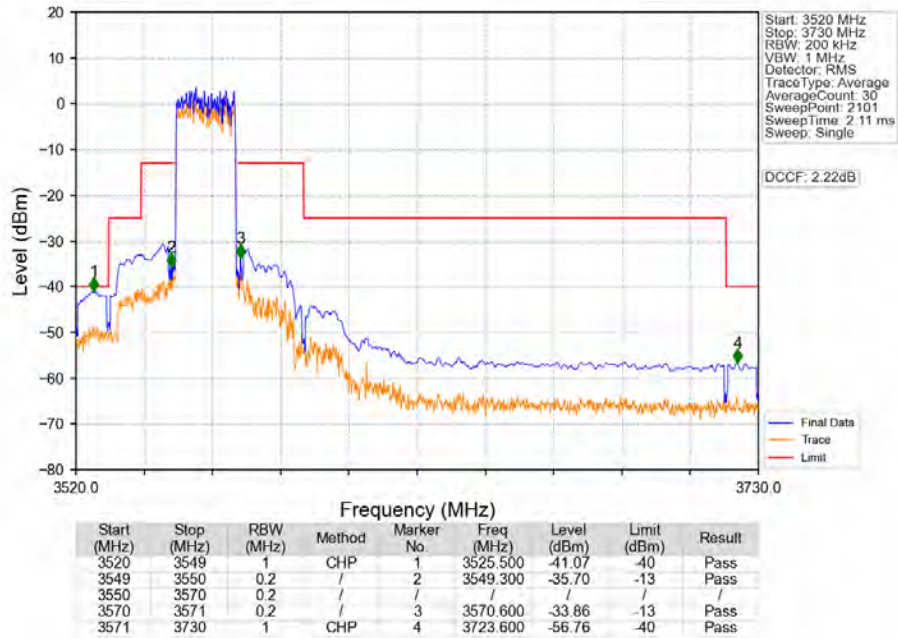
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Page: 250 of 307



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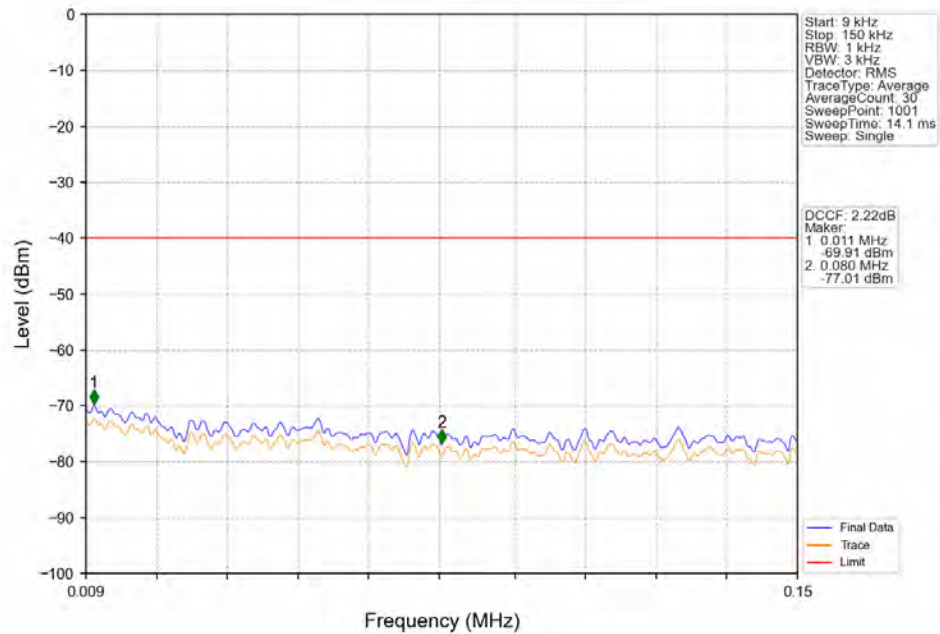
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Report No.: SUCR240100001701

Rev.: 01

Page: 251 of 307

Band48_20MHz_QPSK_MCH_3625MHz_RB_1_0_NTNV



Band48_20MHz_QPSK_MCH_3625MHz_RB_1_0_NTNV



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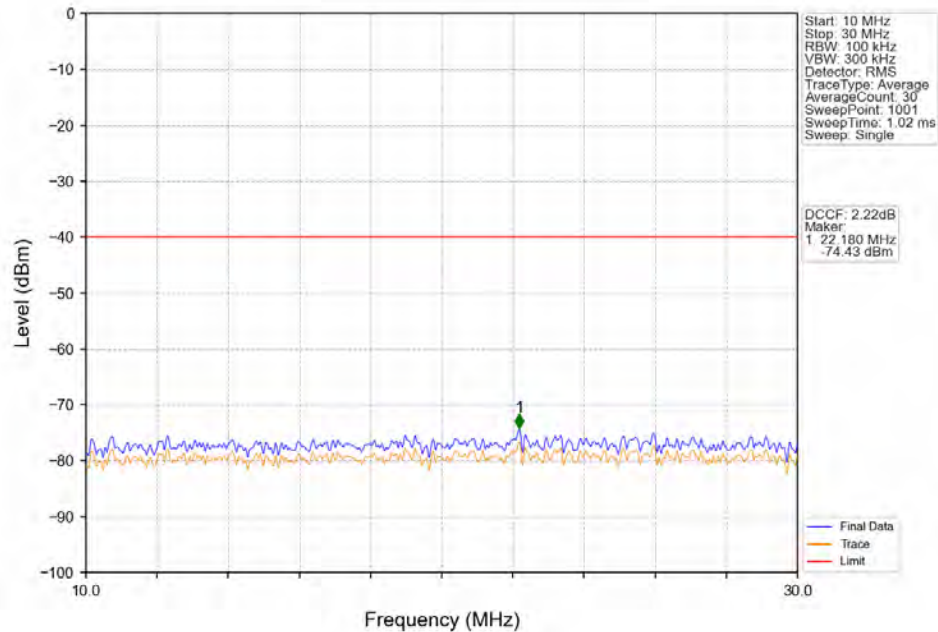
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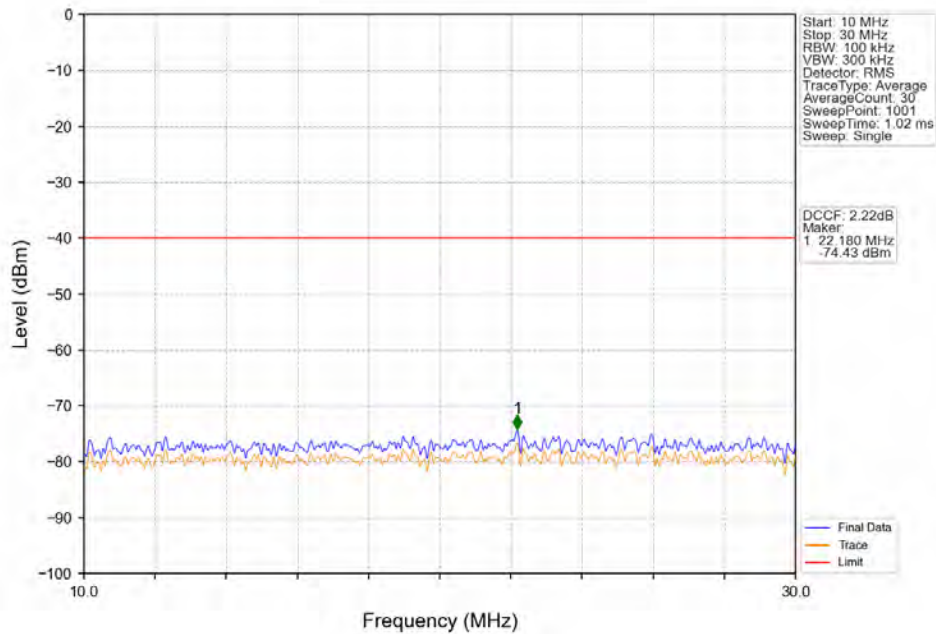
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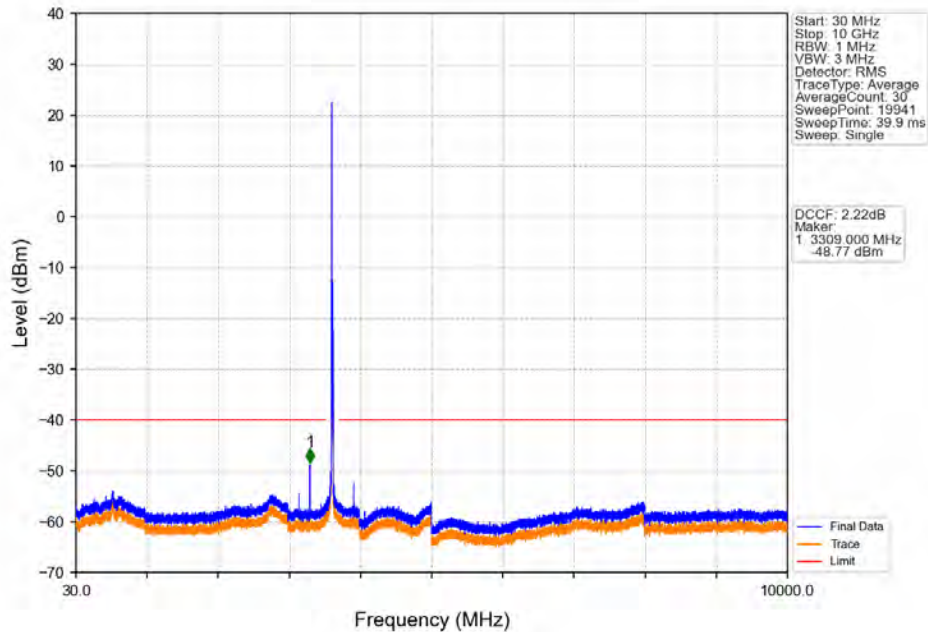
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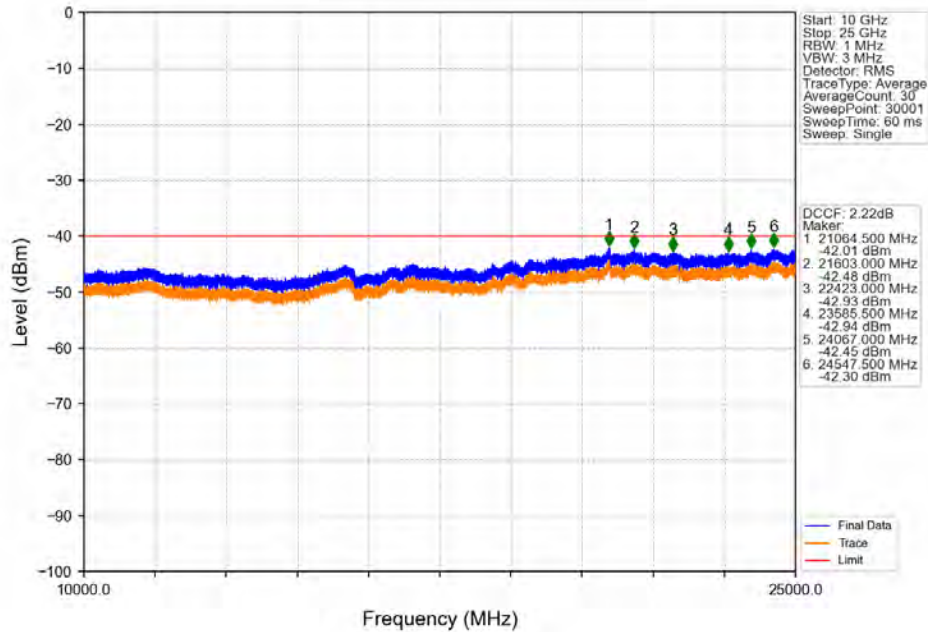
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Report No.: SUCR240100001701

Rev.: 01

Page: 255 of 307

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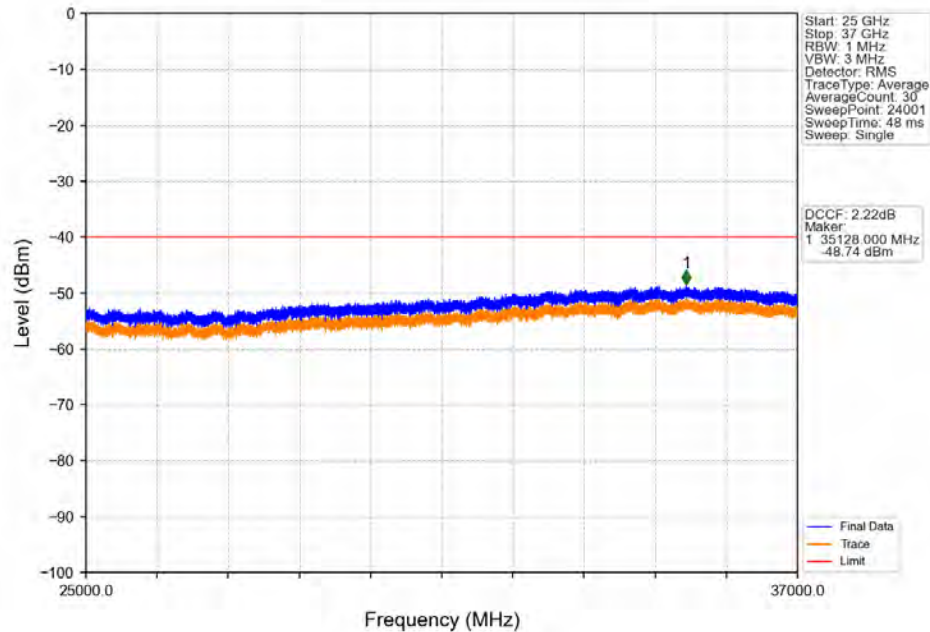
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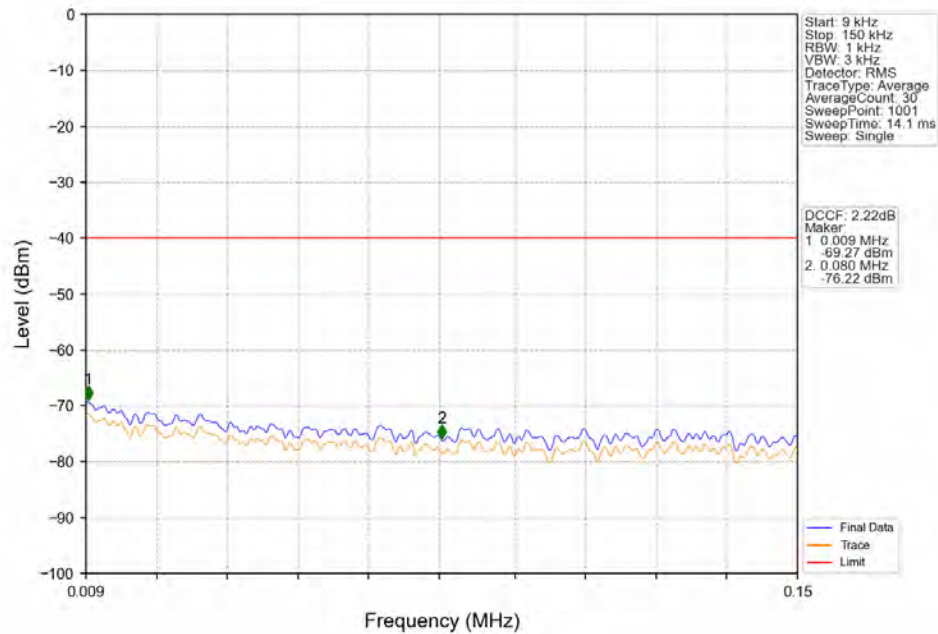
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Report No.: SUCR240100001701

Rev.: 01

Page: 257 of 307

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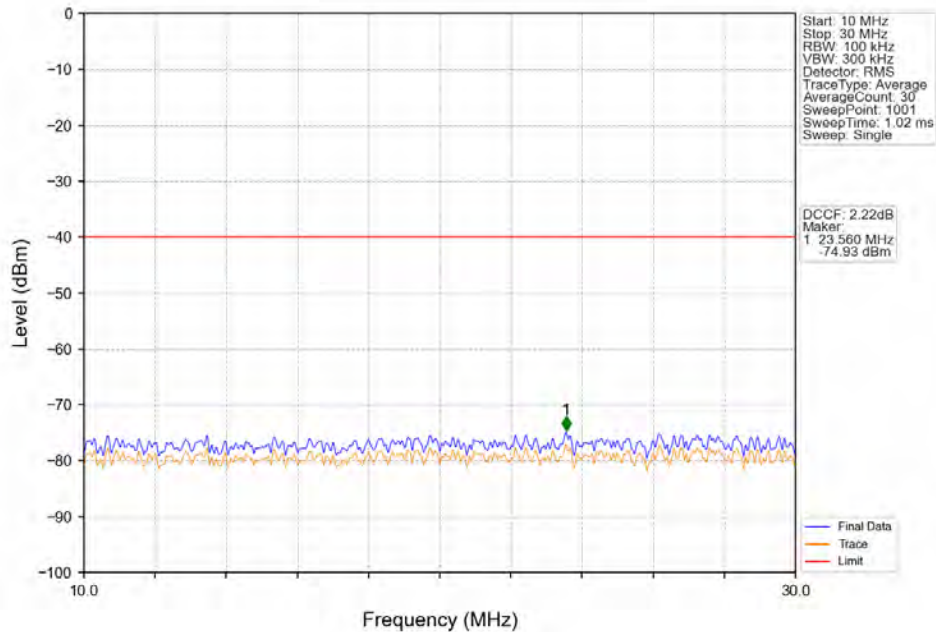
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Rev.: 01

Page: 258 of 307



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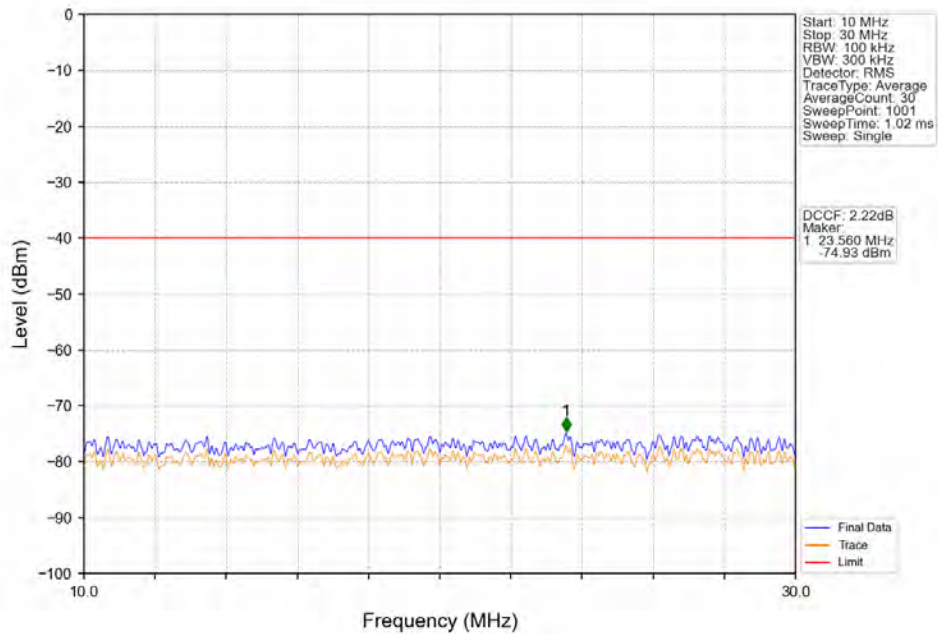
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Report No.: SUCR240100001701

Rev.: 01

Page: 259 of 307

Band48_20MHz_QPSK_HCH_3690MHz_RB_1_0_NTNV



Band48_20MHz_QPSK_HCH_3690MHz_RB_1_0_NTNV



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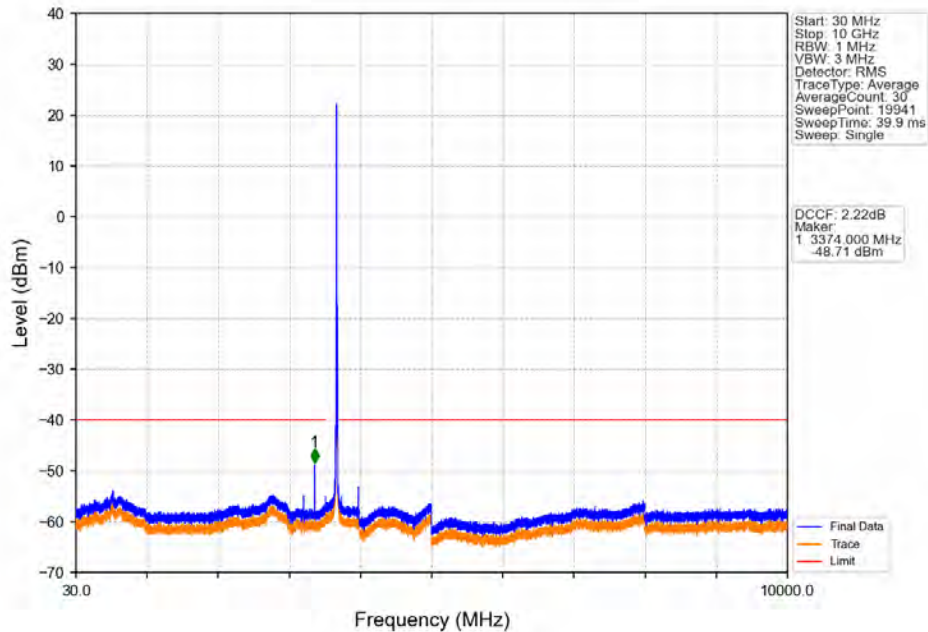
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Rev.: 01

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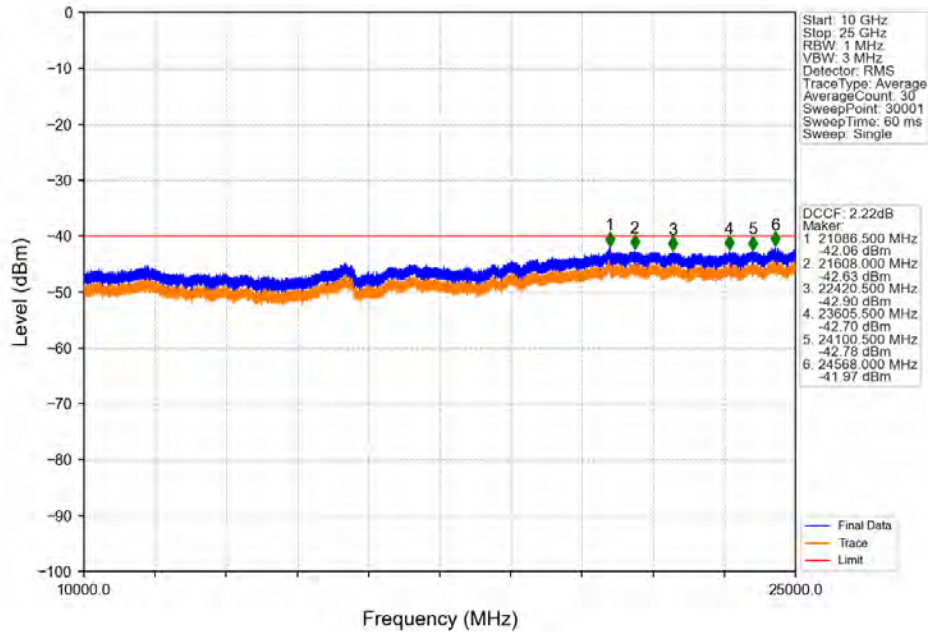
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Report No.: SUCR240100001701

Rev.: 01

Page: 261 of 307

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Band48_20MHz_QPSK_HCH_3690MHz_RB_1_0_NTNV



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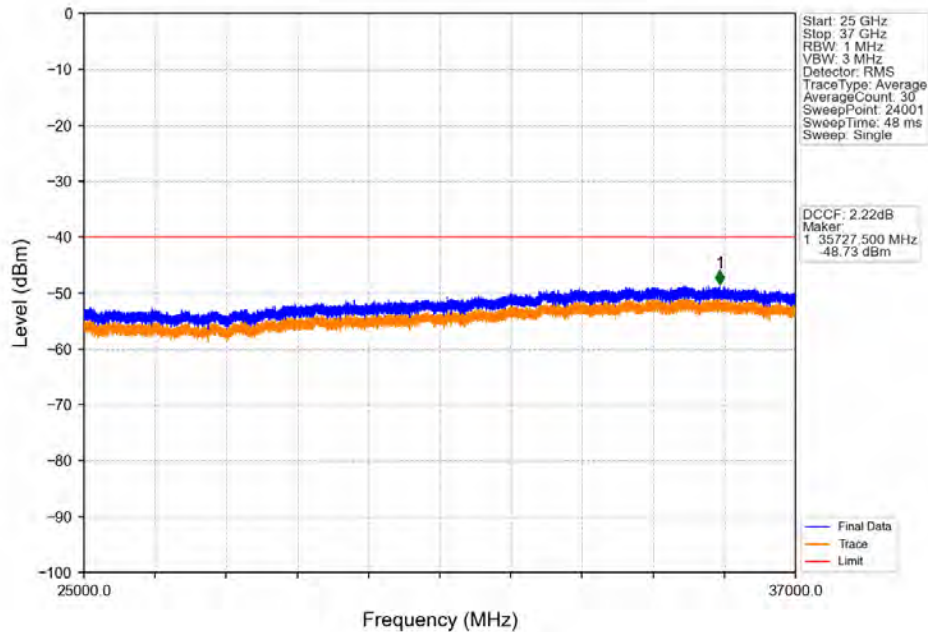
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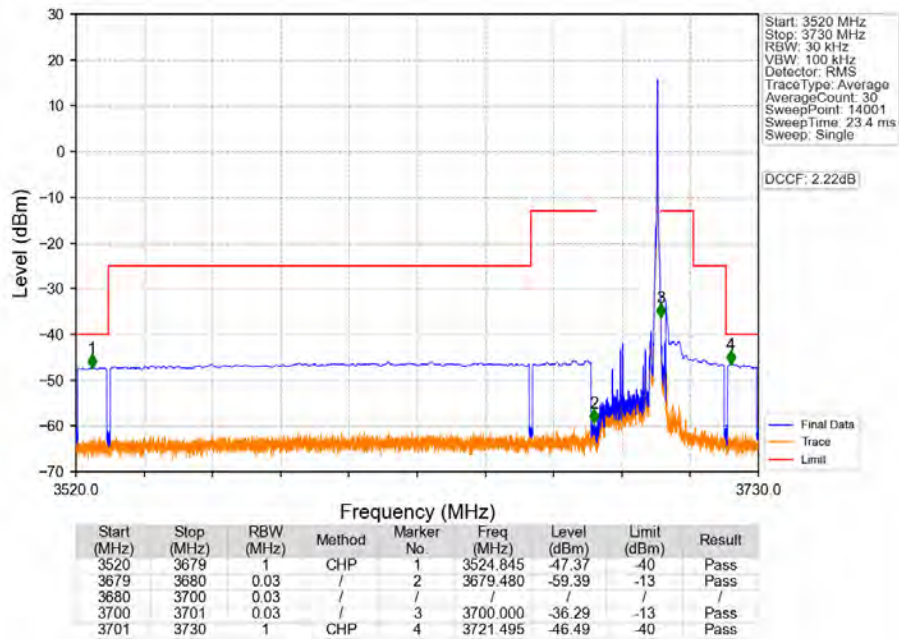
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Band48_20MHz_QPSK_HCH_3690MHz_RB_1_99_NTNV



Band48_20MHz_QPSK_HCH_3690MHz_RB_100_0_NTNV



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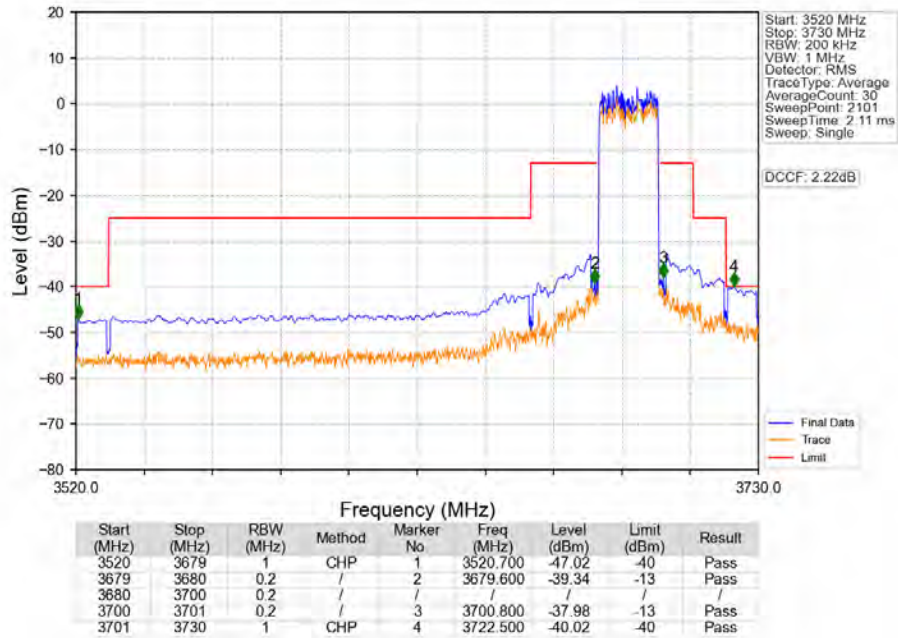
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Rev.: 01

Page: 265 of 307

6. Adjacent Channel Leakage Ratio

7.1 B48_5MHz

7.1.1 Test Result

Band: 48 / Bandwidth: 5MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Adjacent Channel Leakage Ratio		Verdict
		Size	Offset	Result	Limit	
QPSK	3552.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	3625	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	3697.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass



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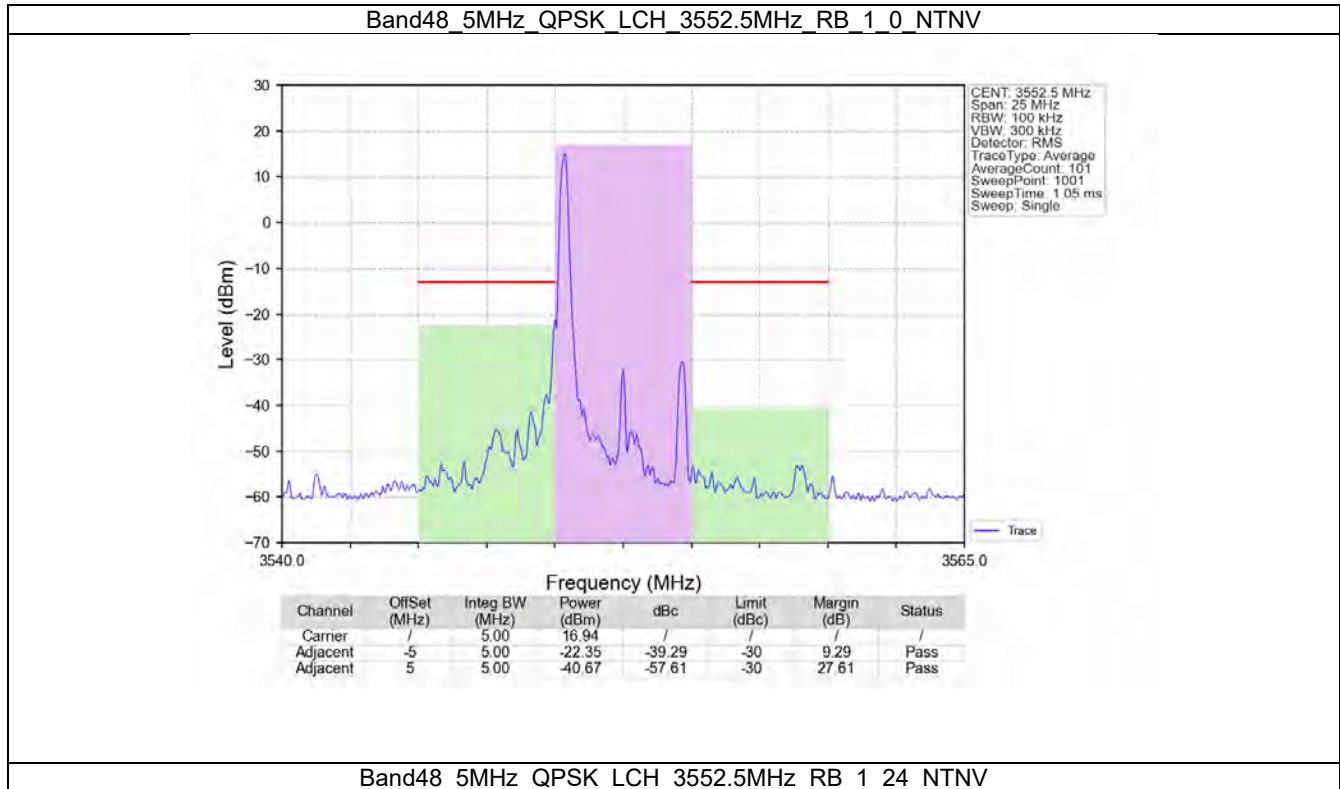
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7.1.2 Test Graph



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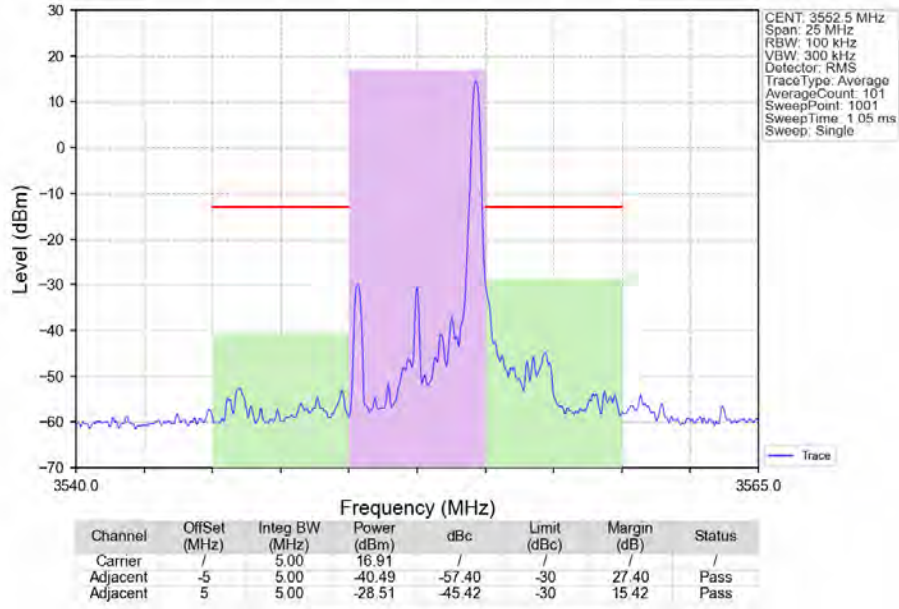
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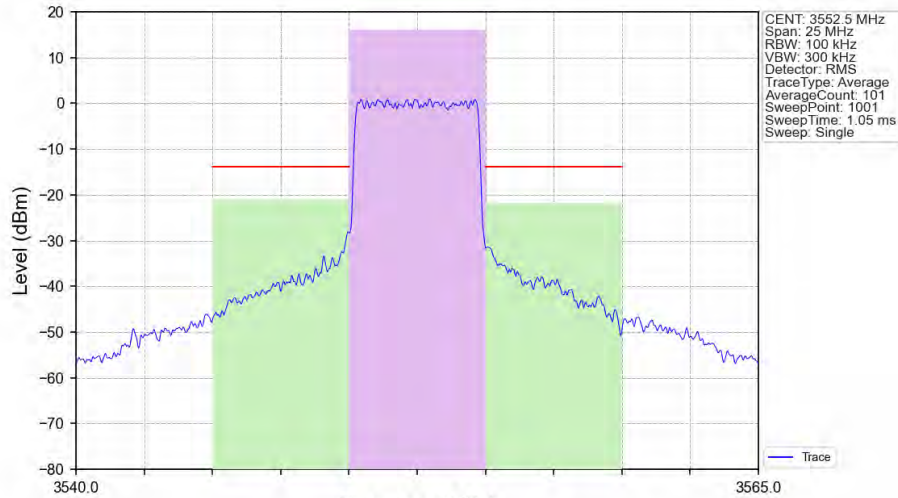
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Rev.: 01

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Band48_5MHz_QPSK_LCH_3552.5MHz_RB_25_0_NTNV



Channel	Offset (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	5.00	16.13	/	/	/	/
Adjacent	-5	5.00	-20.83	-36.96	-30	6.96	Pass
Adjacent	5	5.00	-21.73	-37.86	-30	7.86	Pass

Band48_5MHz_QPSK_MCH_3625MHz_RB_1_0_NTNV



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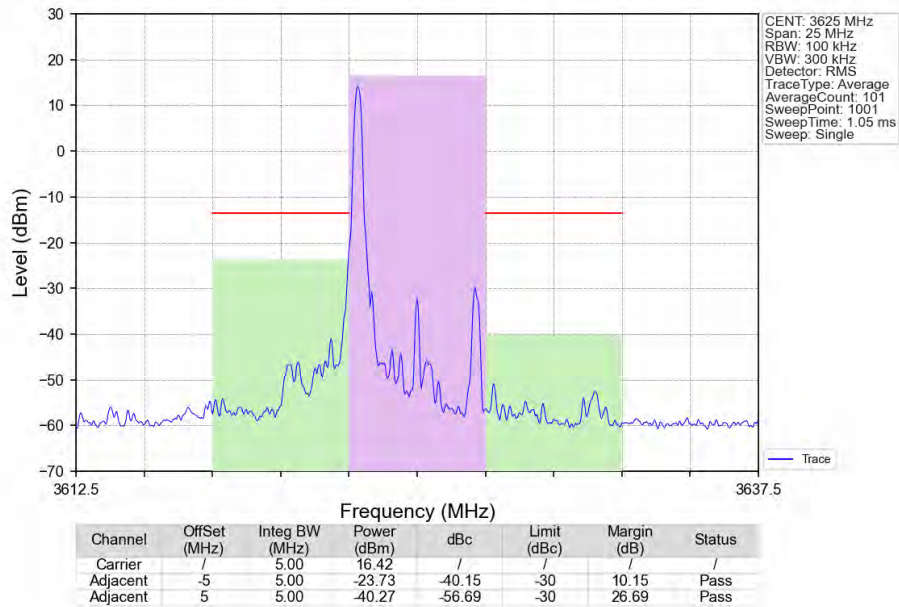
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Band48_5MHz_QPSK_MCH_3625MHz_RB_1_24_NTNV



Channel	Offset (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	5.00	16.92	/	/	/	/
Adjacent	-5	5.00	-40.60	-57.52	-30	27.52	Pass
Adjacent	5	5.00	-28.04	-44.96	-30	14.96	Pass

Band48_5MHz_QPSK_MCH_3625MHz_RB_25_0_NTNV



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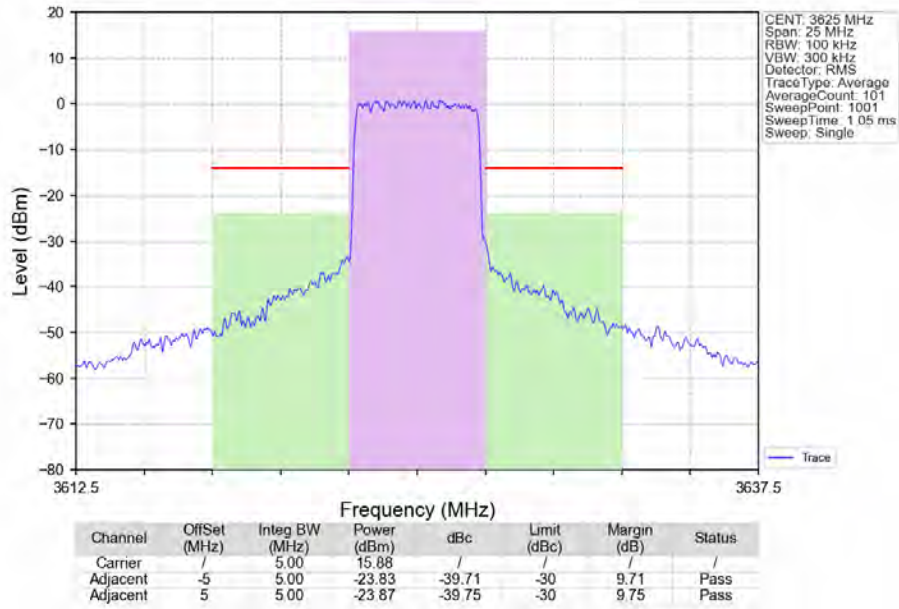
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Report No.: SUCR240100001701

Rev.: 01

Page: 271 of 307



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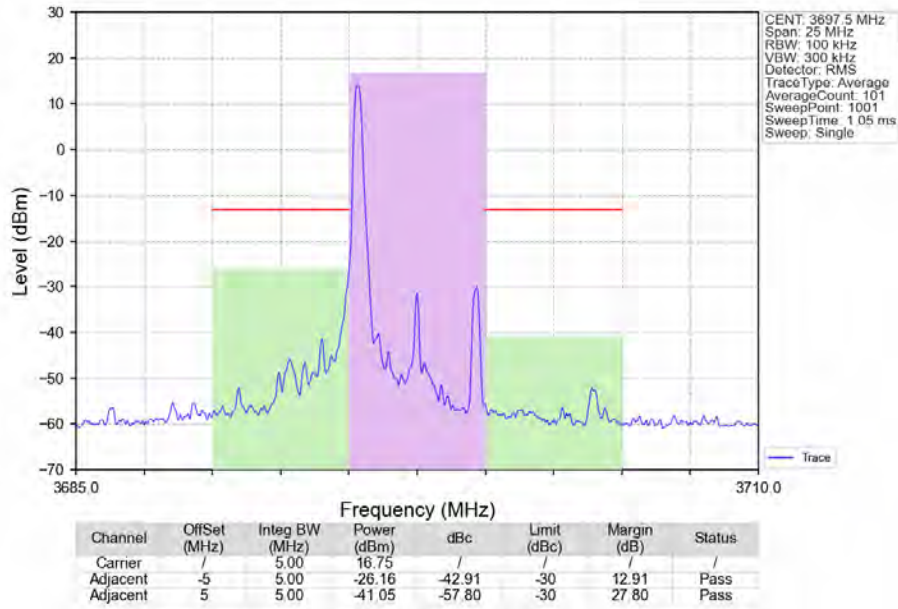
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Report No.: SUCR240100001701

Rev.: 01

Page: 272 of 307

Band48_5MHz_QPSK_HCH_3697.5MHz_RB_1_0_NTNV



Band48_5MHz_QPSK_HCH_3697.5MHz_RB_1_24_NTNV



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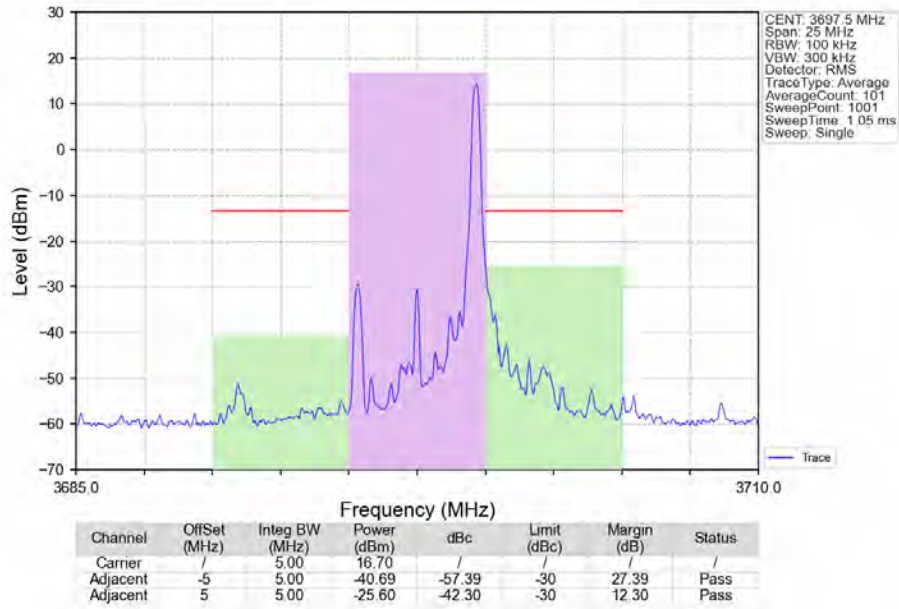
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Page: 273 of 307



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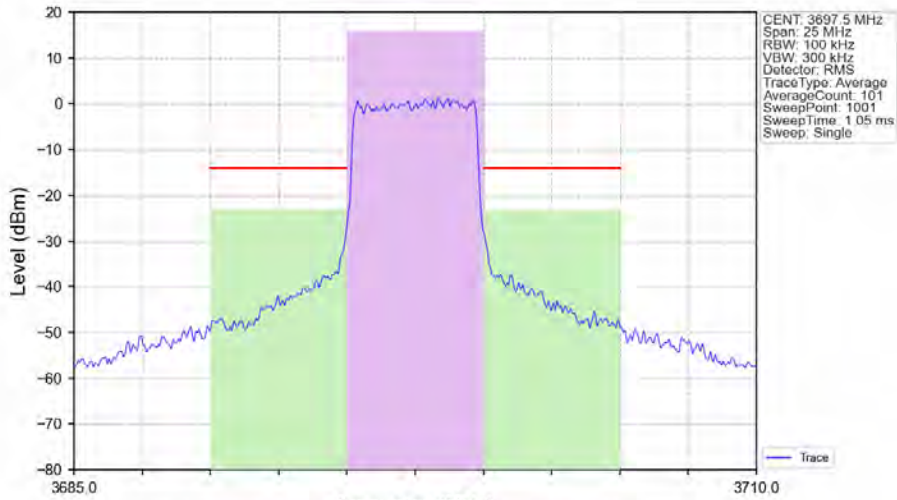
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Report No.: SUCR240100001701

Rev.: 01

Page: 274 of 307

Band48_5MHz_QPSK_HCH_3697.5MHz_RB_25_0_NTNV



Channel	Offset (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	5.00	15.92	/	/	/	/
Adjacent	-5	5.00	-22.98	-38.90	-30	8.90	Pass
Adjacent	5	5.00	-23.46	-39.38	-30	9.38	Pass



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Report No.: SUCR240100001701

Rev.: 01

Page: 275 of 307

7.2 B48_10MHz

7.2.1 Test Result

Band: 48 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Adjacent Channel Leakage Ratio		Verdict
		Size	Offset	Result	Limit	
QPSK	3555	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	3625	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	3695	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass



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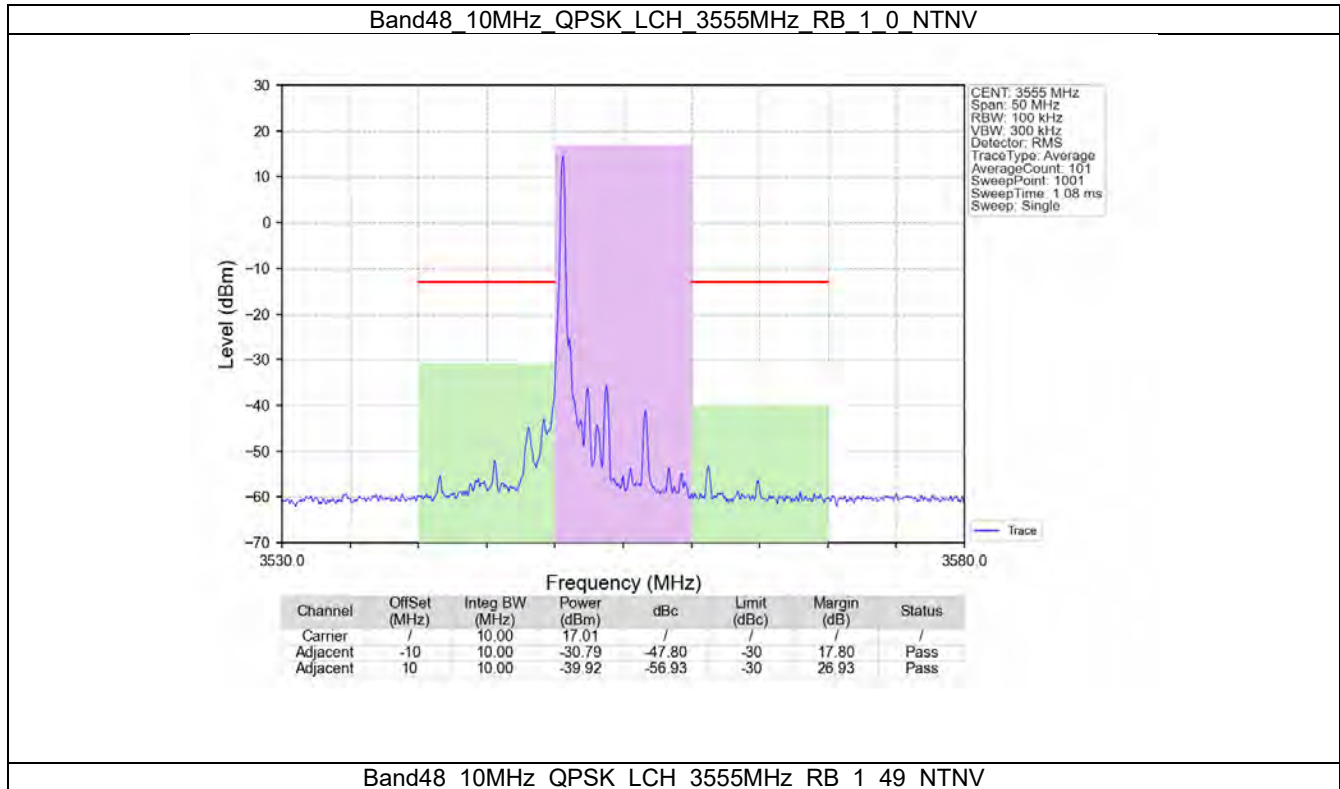
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Rev.: 01

Page: 276 of 307

7.2.2 Test Graph



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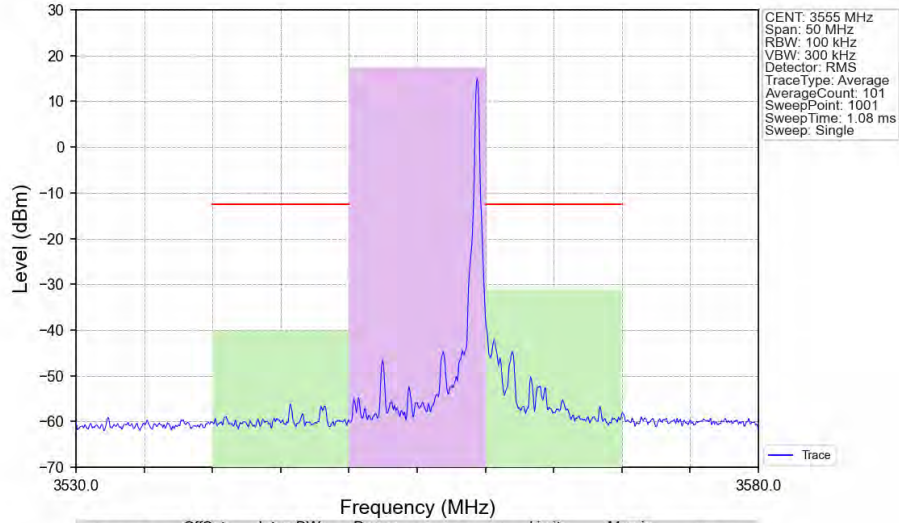
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Report No.: SUCR240100001701

Rev.: 01

Page: 277 of 307



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Carrier	/	10.00	17.46	/	/	/	/
Adjacent	-10	10.00	-40.14	-57.60	-30	27.60	Pass
Adjacent	10	10.00	-31.10	-48.56	-30	18.56	Pass



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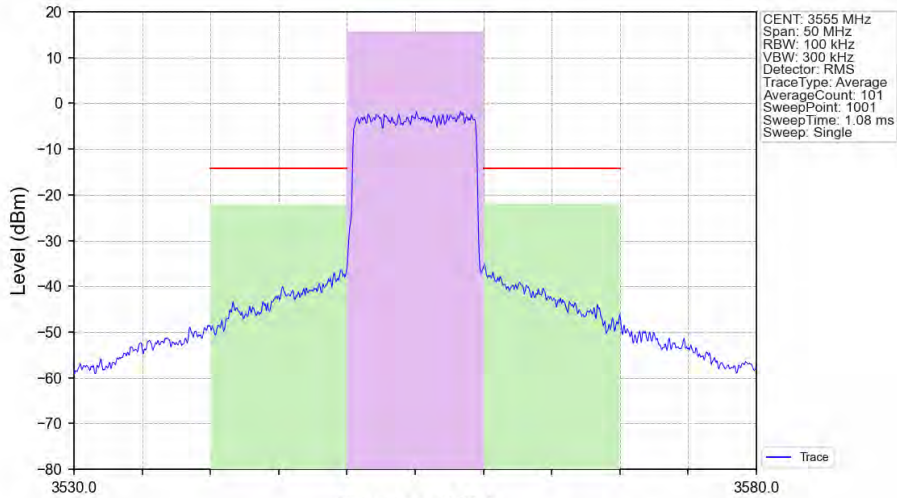
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Rev.: 01

Page: 278 of 307

Band48_10MHz_QPSK_LCH_3555MHz_RB_50_0_NTNV



Channel	Offset (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	10.00	15.83	/	/	/	/
Adjacent	-10	10.00	-22.12	-37.95	-30	7.95	Pass
Adjacent	10	10.00	-21.92	-37.75	-30	7.75	Pass

Band48_10MHz_QPSK_MCH_3625MHz_RB_1_0_NTNV



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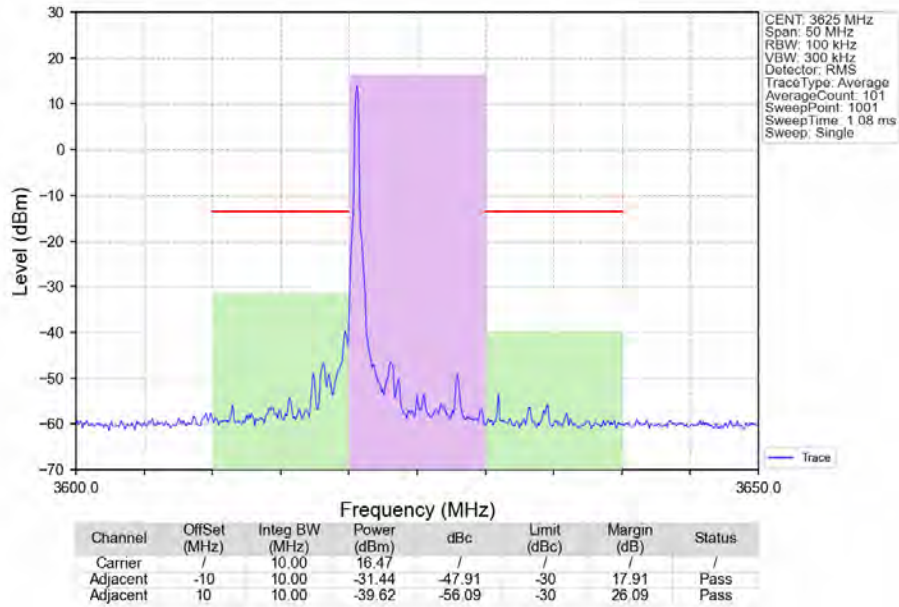
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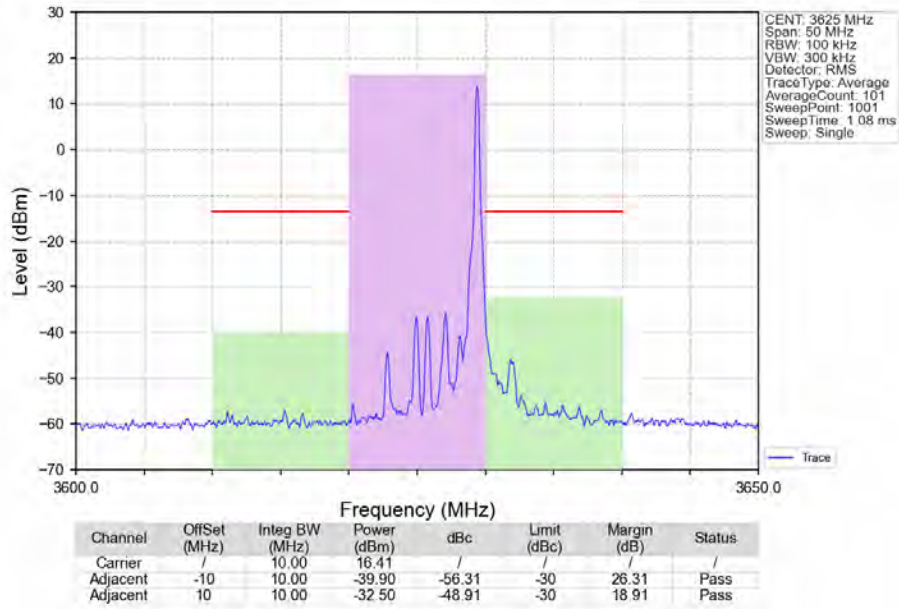
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Report No.: SUCR240100001701

Rev.: 01

Page: 280 of 307

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Band48_10MHz_QPSK_MCH_3625MHz_RB_50_0_NTNV



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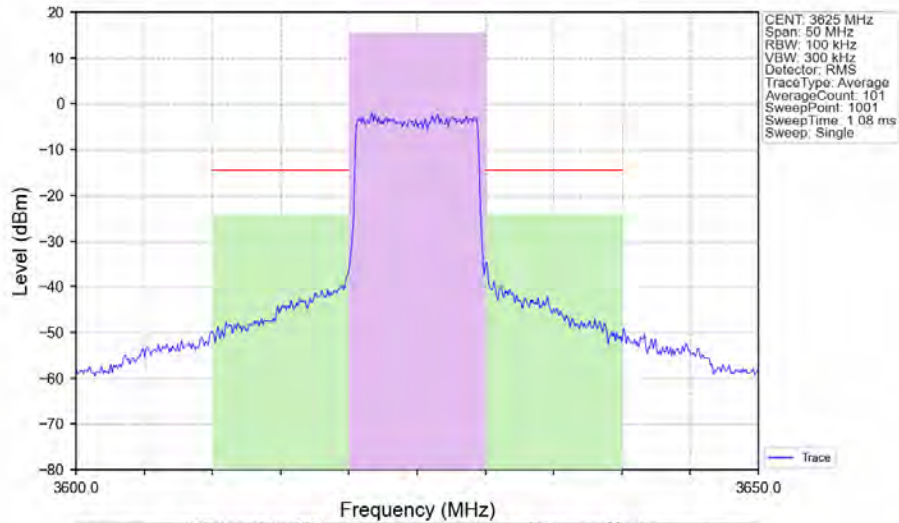
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Report No.: SUCR240100001701

Rev.: 01

Page: 281 of 307



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Carrier	/	10.00	15.48	/	/	/	/
Adjacent	-10	10.00	-24.24	-39.72	-30	9.72	Pass
Adjacent	10	10.00	-24.05	-39.53	-30	9.53	Pass



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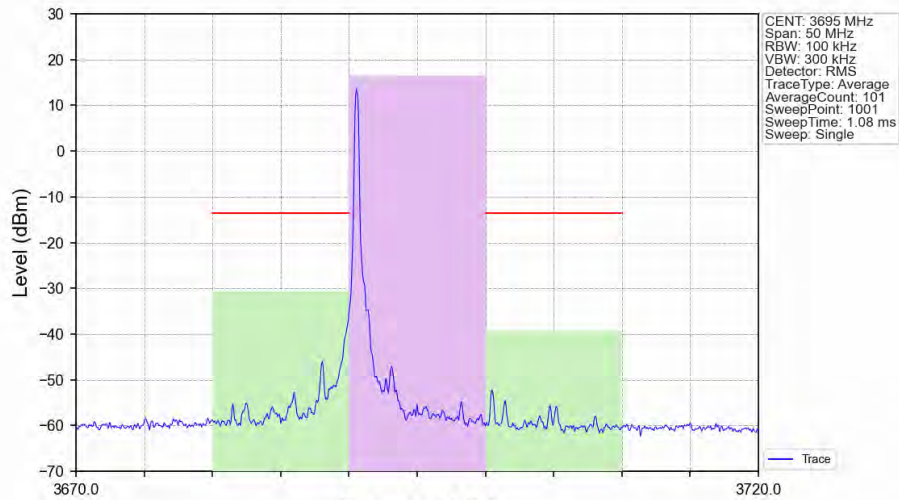
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Report No.: SUCR240100001701

Rev.: 01

Page: 282 of 307

Band48 10MHz QPSK HCH 3695MHz RB 1 0 NTV



Channel	Offset (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	10.00	16.37	/	/	/	/
Adjacent	-10	10.00	-30.64	-47.01	-30	17.01	Pass
Adjacent	10	10.00	-39.39	-55.76	-30	25.76	Pass

Band48 10MHz QPSK HCH 3695MHz RB 1 49 NTV



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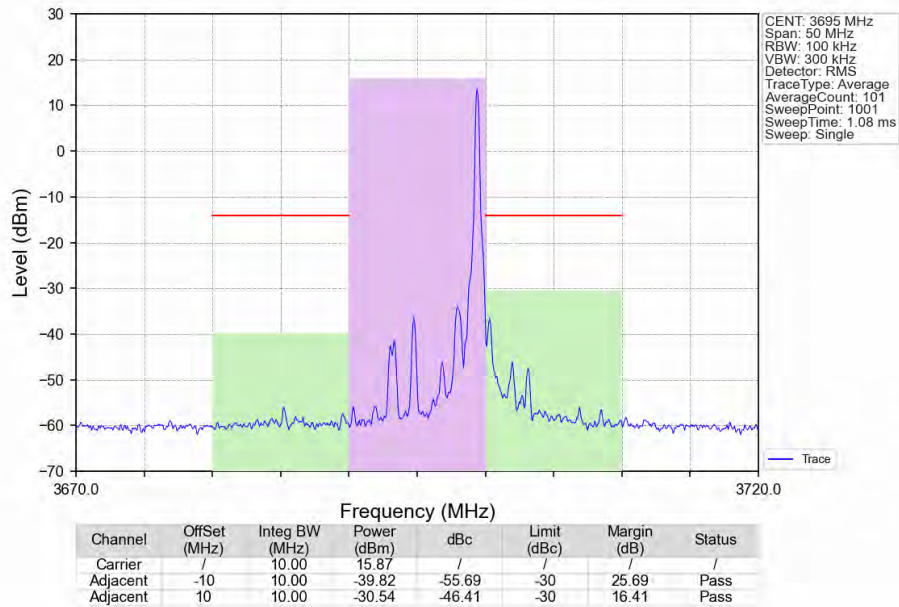
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Report No.: SUCR240100001701

Rev.: 01

Page: 283 of 307



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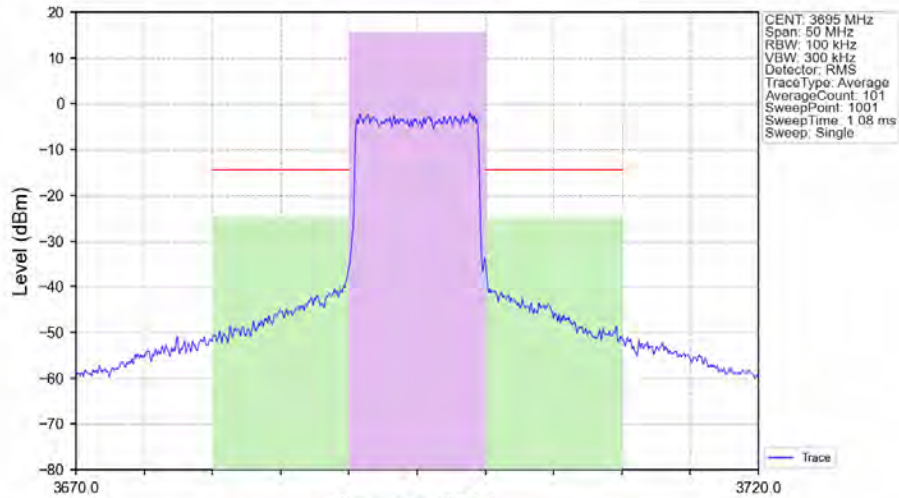
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Report No.: SUCR240100001701

Rev.: 01

Page: 284 of 307

Band48_10MHz_QPSK_HCH_3695MHz_RB_50_0_NTNV



Channel	Offset (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	10.00	15.57	/	/	/	/
Adjacent	-10	10.00	-24.84	-40.41	-30	10.41	Pass
Adjacent	10	10.00	-25.06	-40.63	-30	10.63	Pass



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Report No.: SUCR240100001701

Rev.: 01

Page: 285 of 307

7.3 B48_15MHz

7.3.1 Test Result

Band: 48 / Bandwidth: 15MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Adjacent Channel Leakage Ratio	
		Size	Offset	Result	Limit
QPSK	3557.5	1	0	Refer To Test Graph	Pass
			74	Refer To Test Graph	Pass
		75	0	Refer To Test Graph	Pass
	3625	1	0	Refer To Test Graph	Pass
			74	Refer To Test Graph	Pass
		75	0	Refer To Test Graph	Pass
	3692.5	1	0	Refer To Test Graph	Pass
			74	Refer To Test Graph	Pass
		75	0	Refer To Test Graph	Pass



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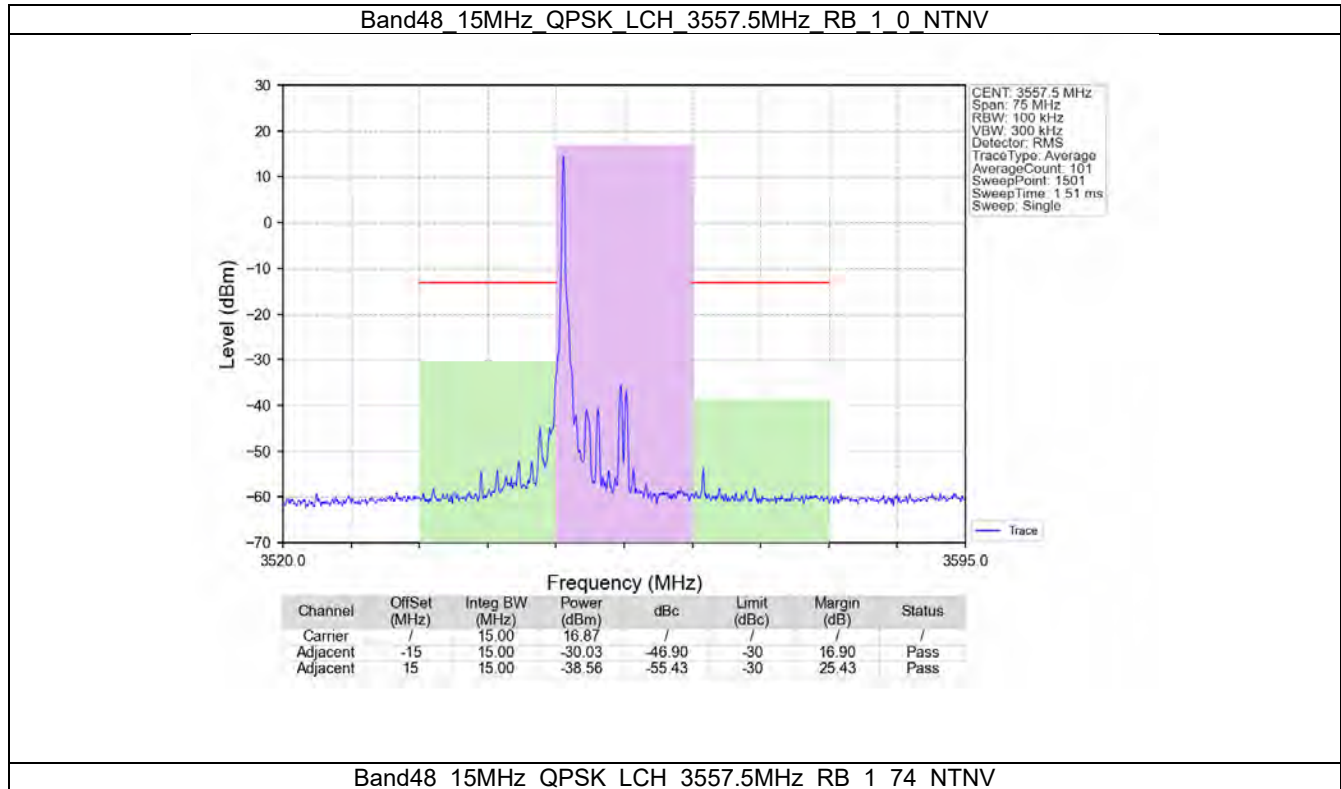
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Rev.: 01

Page: 286 of 307

7.3.2 Test Graph



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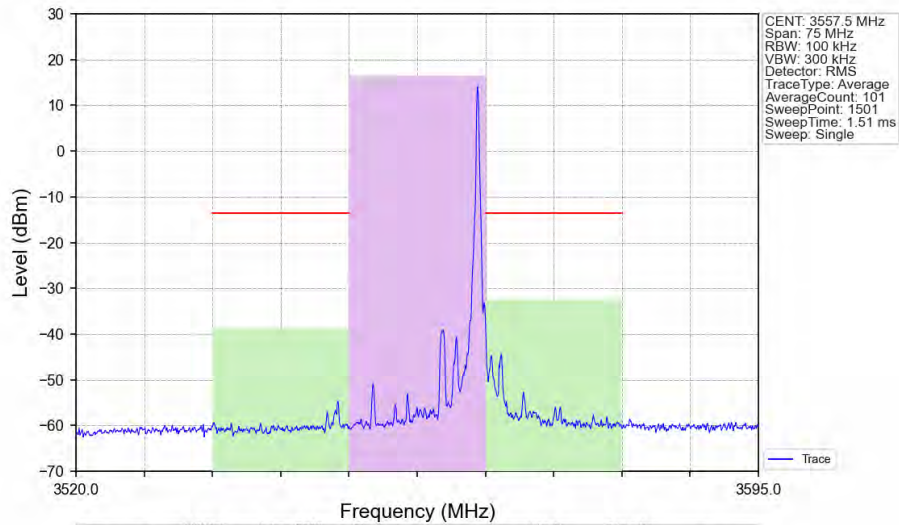
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Report No.: SUCR240100001701

Rev.: 01

Page: 287 of 307



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Carrier	/	15.00	16.45	/	/	/	/
Adjacent	-15	15.00	-38.84	-55.29	-30	25.29	Pass
Adjacent	15	15.00	-32.46	-48.91	-30	18.91	Pass



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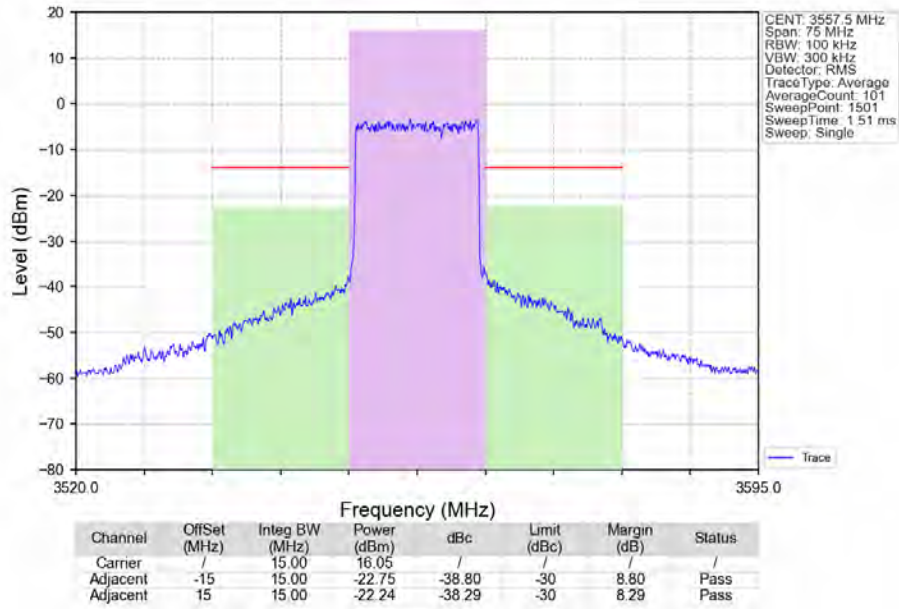
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Rev.: 01

Page: 288 of 307

Band48 15MHz QPSK LCH 3557.5MHz RB 75 0 NTNV



Band48 15MHz QPSK MCH 3625MHz RB 1 0 NTNV



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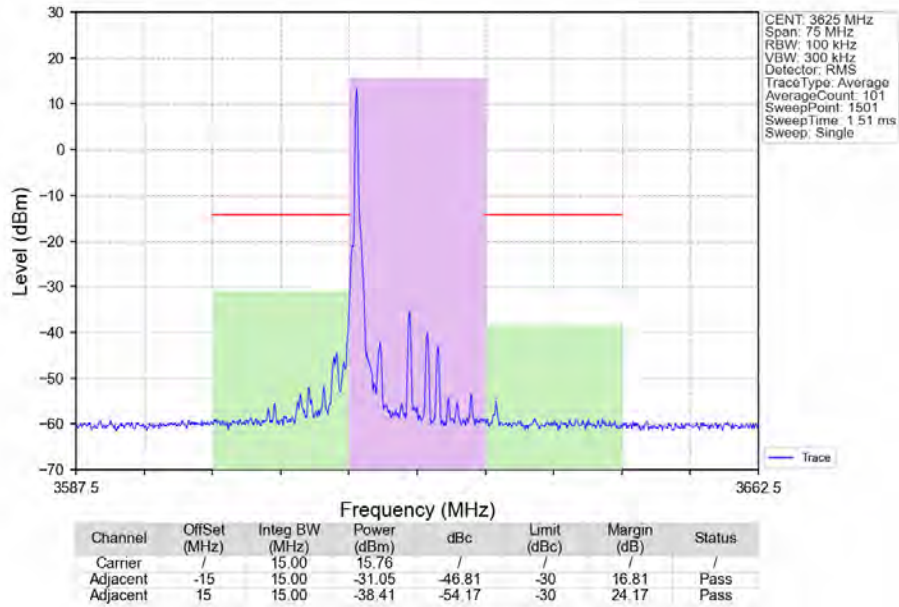
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Rev.: 01

Page: 289 of 307



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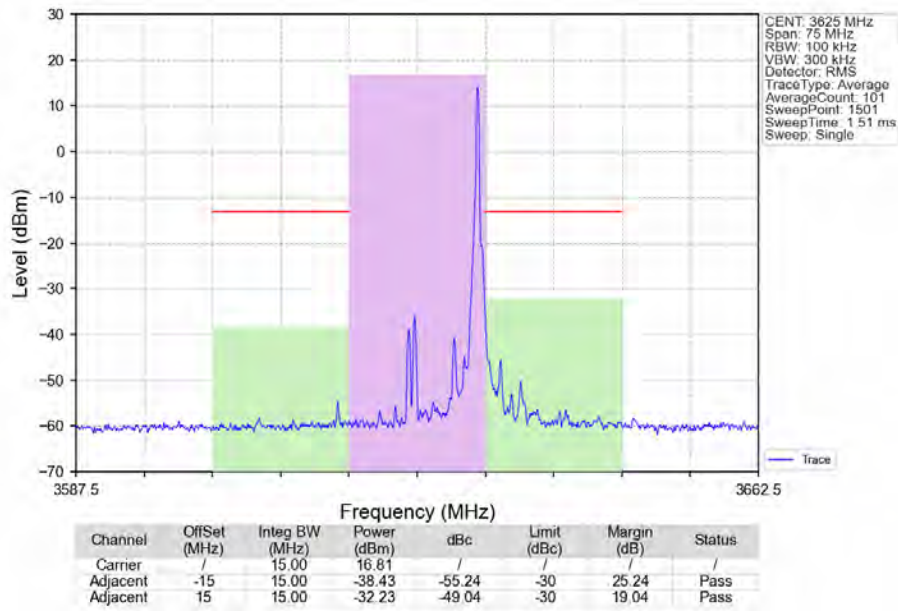
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Rev.: 01

Page: 290 of 307

Band48_15MHz_QPSK_MCH_3625MHz_RB_1_74_NTNV



Band48_15MHz_QPSK_MCH_3625MHz_RB_75_0_NTNV



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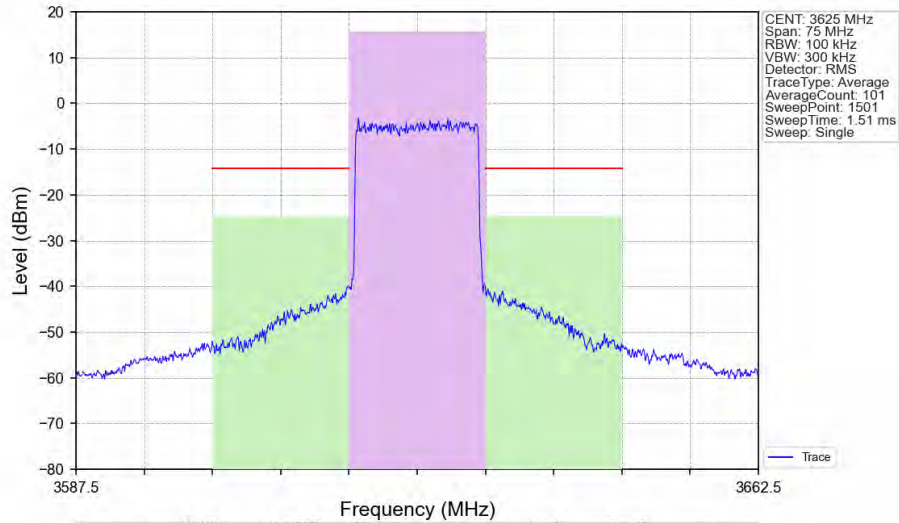
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Report No.: SUCR240100001701

Rev.: 01

Page: 291 of 307



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Carrier	/	15.00	15.83	/	/	/	/
Adjacent	-15	15.00	-24.85	-40.68	-30	10.68	Pass
Adjacent	15	15.00	-24.61	-40.44	-30	10.44	Pass



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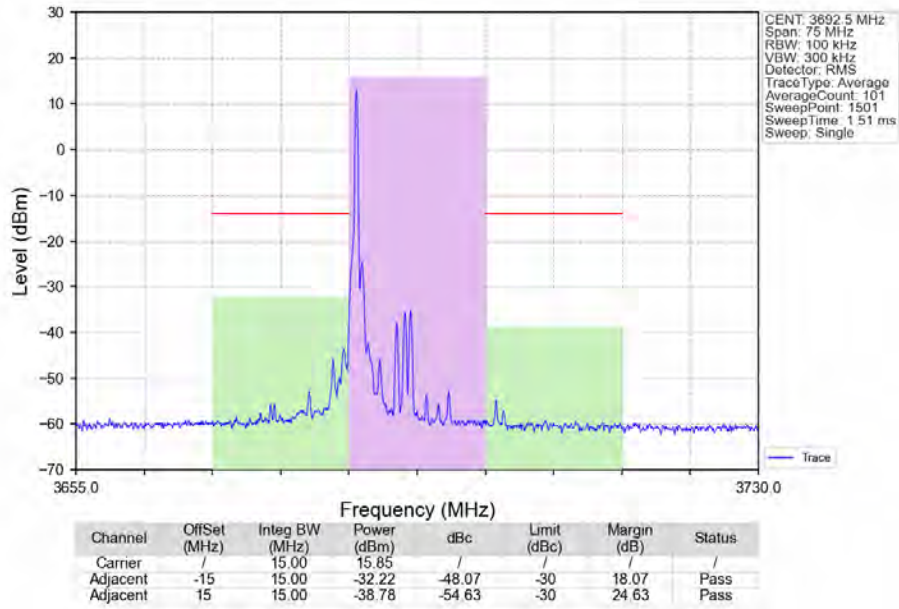
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Rev.: 01

Page: 292 of 307

Band48_15MHz_QPSK_HCH_3692.5MHz_RB_1_0_NTNV



Band48_15MHz_QPSK_HCH_3692.5MHz_RB_1_74_NTNV



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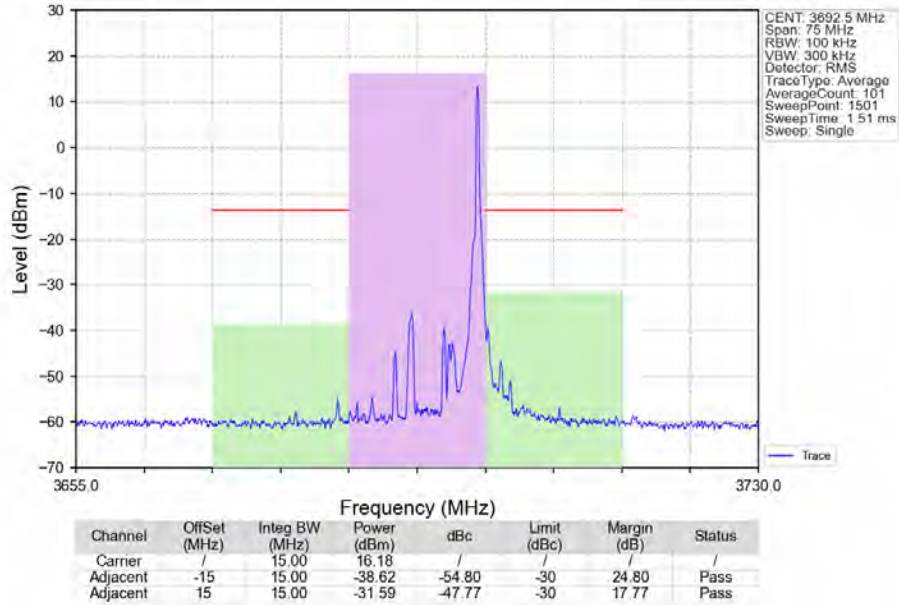
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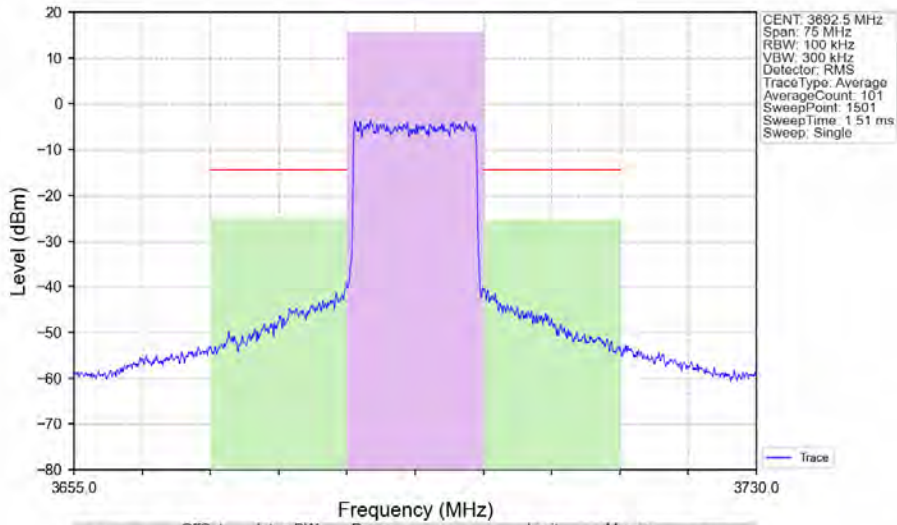
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Report No.: SUCR240100001701

Rev.: 01

Page: 294 of 307

Band48_15MHz_QPSK_HCH_3692.5MHz_RB_75_0_NTNV



Channel	Offset (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	15.00	15.06	/	/	/	/
Adjacent	-15	15.00	-24.99	-40.65	-30	10.65	Pass
Adjacent	15	15.00	-25.40	-41.06	-30	11.06	Pass



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Report No.: SUCR240100001701

Rev.: 01

Page: 295 of 307

7.4 B48_20MHz

7.4.1 Test Result

Band: 48 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Adjacent Channel Leakage Ratio		Verdict
		Size	Offset	Result	Limit	
QPSK	3560	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	3625	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	3690	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass



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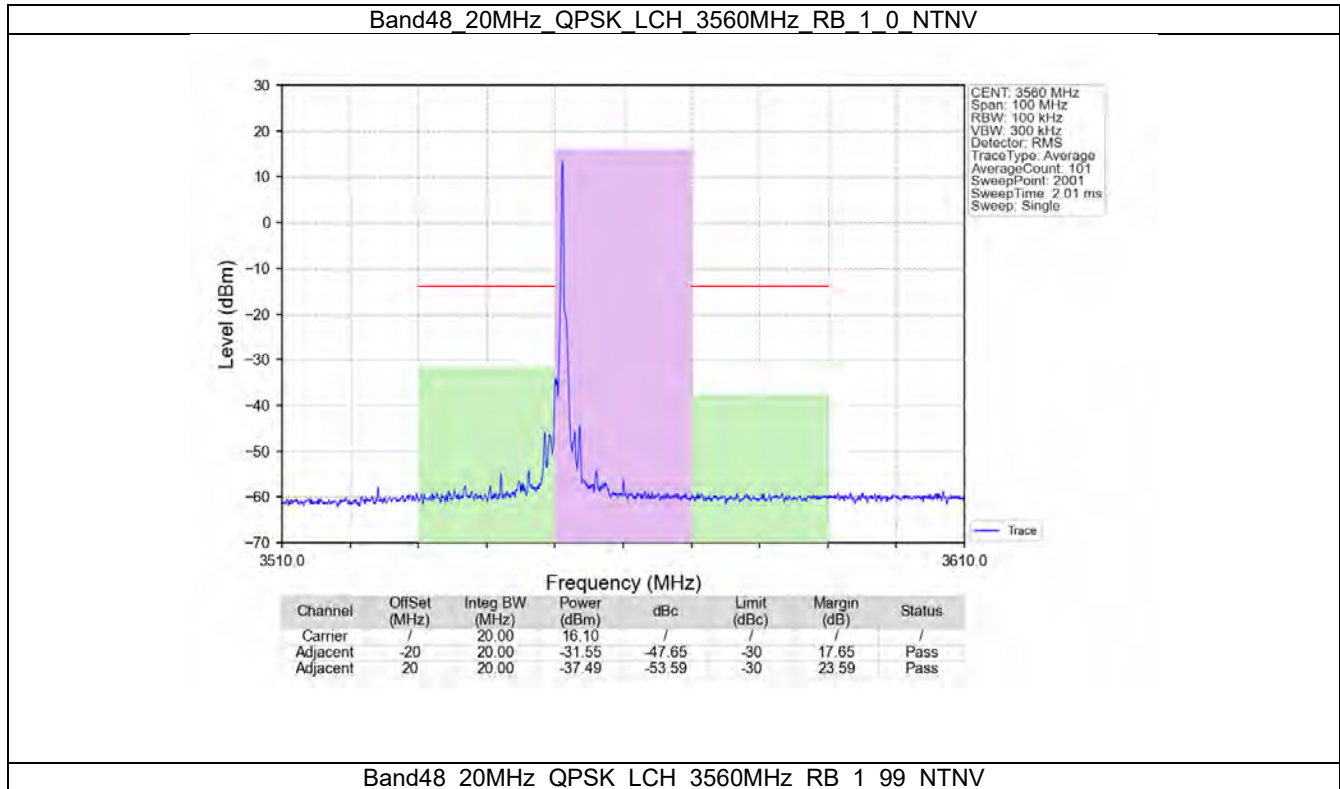
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Report No.: SUCR240100001701

Rev.: 01

Page: 296 of 307

7.4.2 Test Graph



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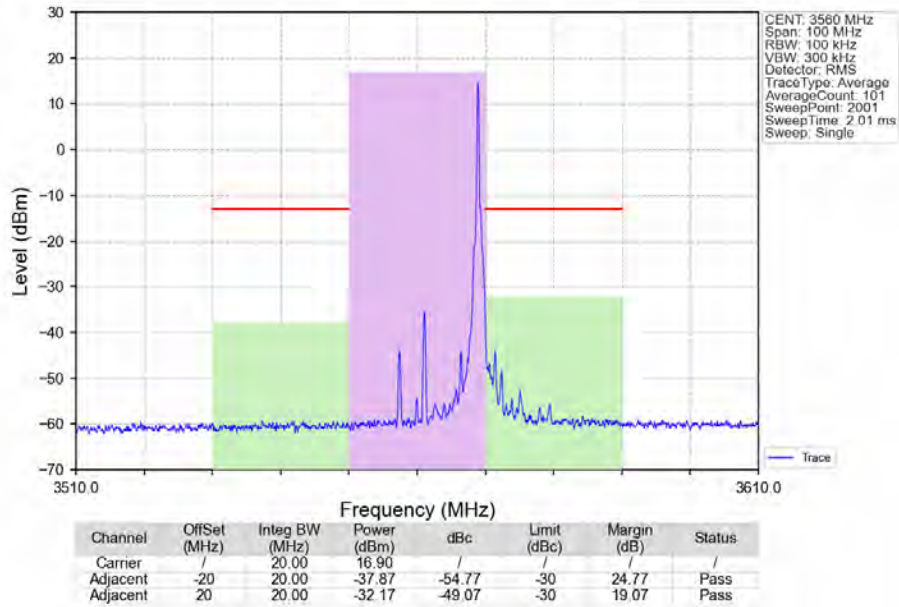
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Rev.: 01

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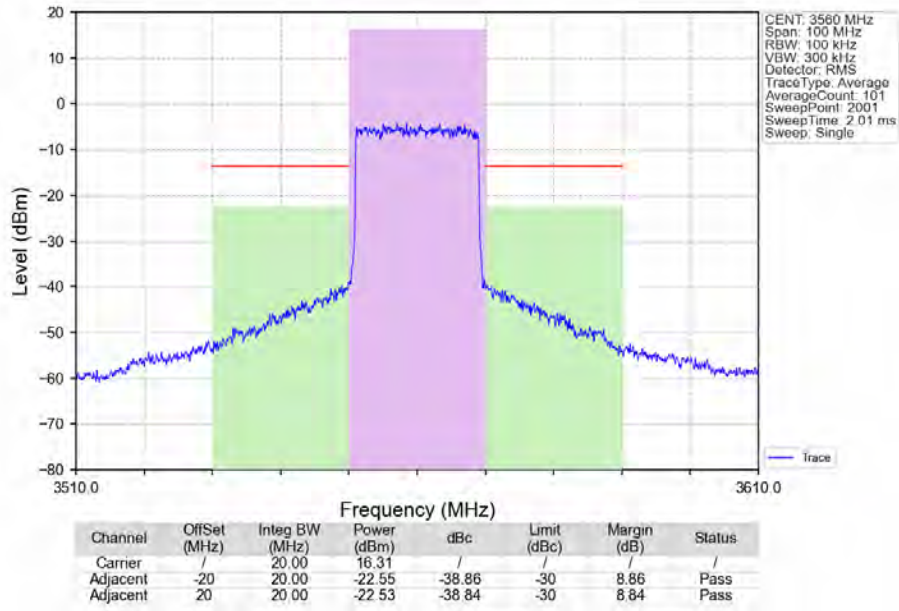
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Report No.: SUCR240100001701

Rev.: 01

Page: 298 of 307

Band48 20MHz QPSK LCH 3560MHz RB 100 0 NTNV



Band48 20MHz QPSK MCH 3625MHz RB 1 0 NTNV



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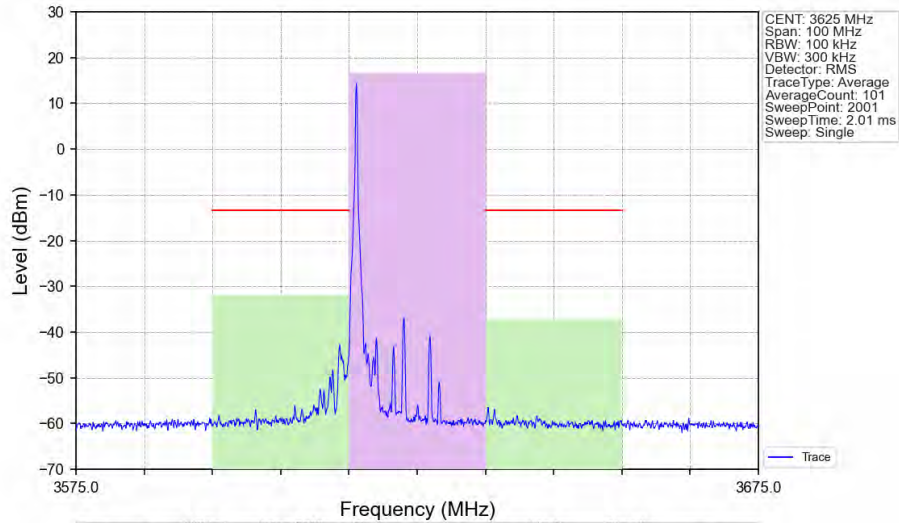
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Report No.: SUCR240100001701

Rev.: 01

Page: 299 of 307



Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	16.65	/	/	/	/
Adjacent	-20	20.00	-31.84	-48.49	-30	18.49	Pass
Adjacent	20	20.00	-37.19	-53.84	-30	23.84	Pass



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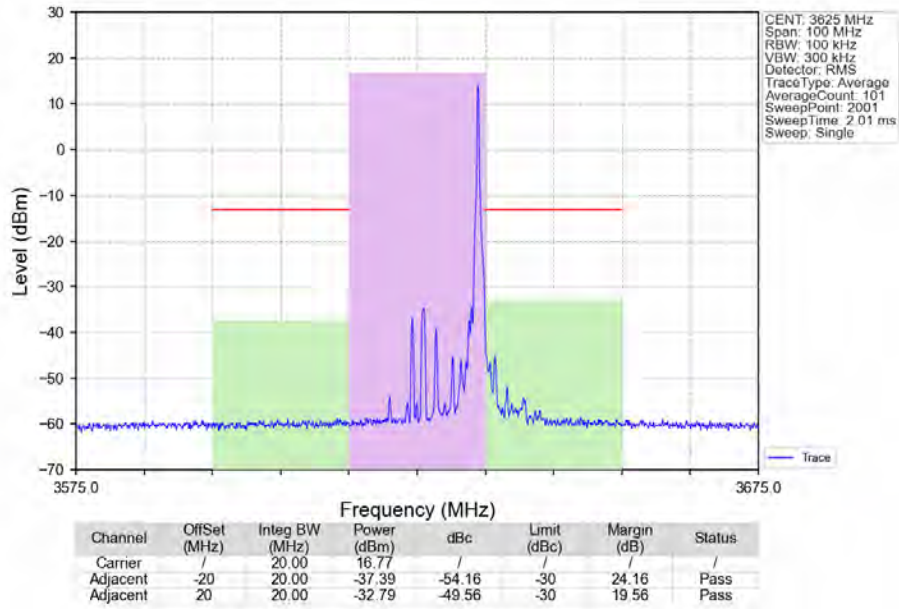
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Report No.: SUCR240100001701

Rev.: 01

Page: 300 of 307

Band48_20MHz_QPSK_MCH_3625MHz_RB_1_99_NTNV



Band48_20MHz_QPSK_MCH_3625MHz_RB_100_0_NTNV



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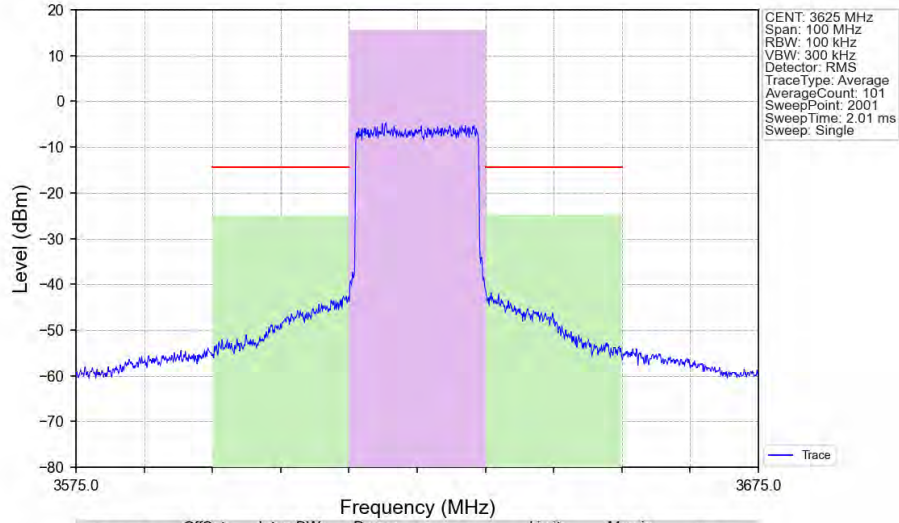
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Report No.: SUCR240100001701

Rev.: 01

Page: 301 of 307



Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	15.58	/	/	/	/
Adjacent	-20	20.00	-25.02	-40.60	-30	10.60	Pass
Adjacent	20	20.00	-24.80	-40.38	-30	10.38	Pass



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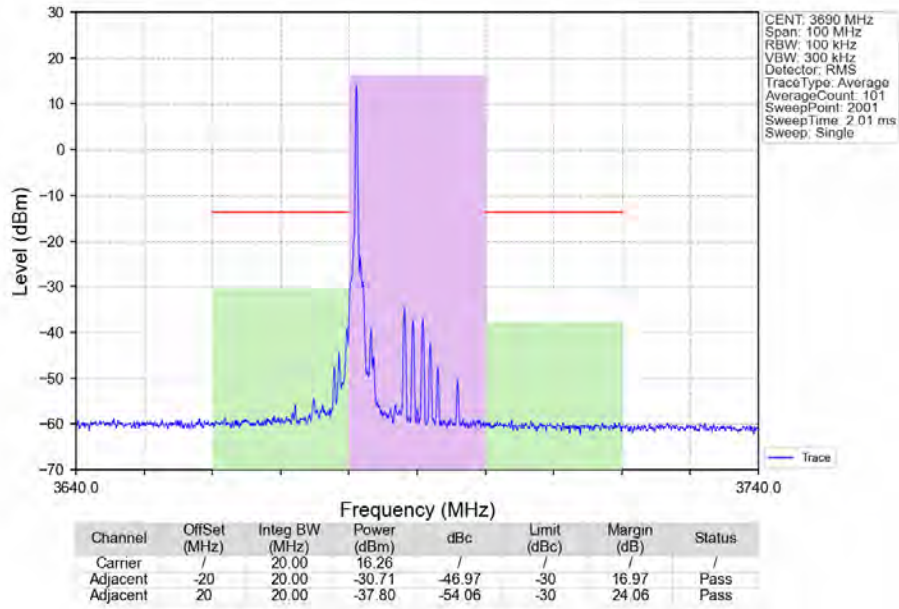
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Report No.: SUCR240100001701

Rev.: 01

Page: 302 of 307

Band48_20MHz_QPSK_HCH_3690MHz_RB_1_0_NTNV



Band48_20MHz_QPSK_HCH_3690MHz_RB_1_99_NTNV



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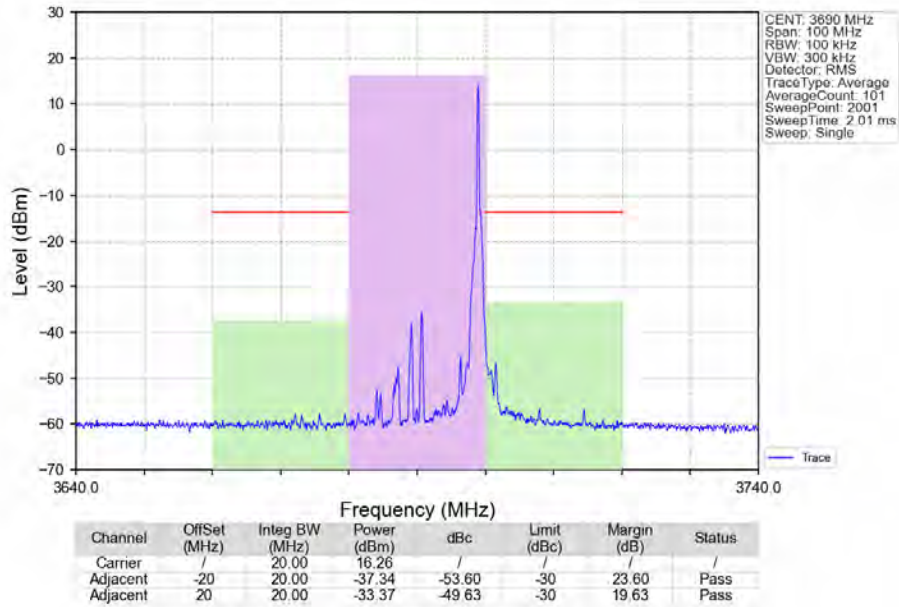
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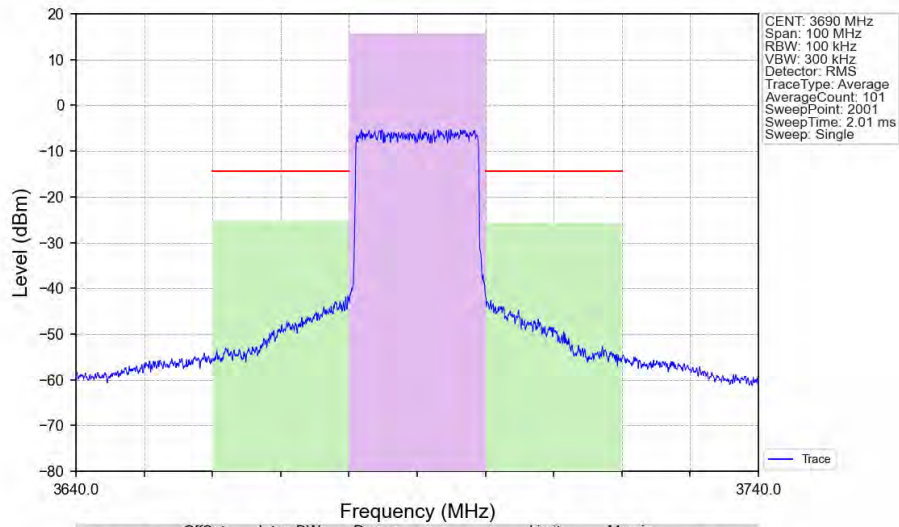
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Report No.: SUCR240100001701

Rev.: 01

Page: 304 of 307

Band48 20MHz_QPSK_HCH_3690MHz_RB_100_0_NTNV



Channel	Offset (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	15.68	/	/	/	/
Adjacent	-20	20.00	-25.35	-41.03	-30	11.03	Pass
Adjacent	20	20.00	-25.75	-41.43	-30	11.43	Pass



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Report No.: SUCR240100001701
Rev.: 01
Page: 305 of 307

7. Field Strength of Spurious Radiation

Test Band = LTE Band48_ TM1
Test Channel = Low FCC

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7102.025	48.54	-43.66	35.49	-54.89	-40.00	14.89	Horizontal
2	8084.7	41.13	-41.46	36.76	-58.83	-40.00	18.83	Horizontal
3	9412.95	40.66	-39.93	37.08	-57.44	-40.00	17.44	Horizontal
4	10679.1	37.05	-37.60	38.54	-57.27	-40.00	17.27	Horizontal
5	12331.65	35.88	-36.75	38.90	-57.23	-40.00	17.23	Horizontal
6	14004.9	33.21	-34.84	40.90	-55.99	-40.00	15.99	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7102.025	54.25	-43.66	35.49	-49.18	-40.00	9.18	Vertical
2	8411.3	41.35	-41.42	36.59	-58.73	-40.00	18.73	Vertical
3	9142.125	38.88	-40.22	36.57	-60.03	-40.00	20.03	Vertical
4	9830.4	38.25	-39.10	37.88	-58.23	-40.00	18.23	Vertical
5	11258.125	36.09	-36.97	38.73	-57.41	-40.00	17.41	Vertical
6	12875.6	35.77	-36.81	39.06	-57.24	-40.00	17.24	Vertical



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Report No.: SUCR240100001701

Rev.: 01

Page: 306 of 307

Test Band = LTE Band48_ TM1

Test Channel = Mid FCC

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7231.975	48.39	-43.52	35.85	-54.54	-40.00	14.54	Horizontal
2	8131.275	41.12	-41.59	36.73	-59.00	-40.00	19.00	Horizontal
3	9450.9	40.10	-39.94	37.16	-57.94	-40.00	17.94	Horizontal
4	10674.5	36.94	-37.62	38.54	-57.41	-40.00	17.41	Horizontal
5	12631.225	35.81	-37.08	38.99	-57.55	-40.00	17.55	Horizontal
6	13462.1	35.52	-36.43	39.93	-56.24	-40.00	16.24	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7231.975	55.06	-43.52	35.85	-47.87	-40.00	7.87	Vertical
2	8380.25	41.25	-41.47	36.61	-58.87	-40.00	18.87	Vertical
3	9811.425	38.11	-39.08	37.84	-58.38	-40.00	18.38	Vertical
4	11263.3	36.61	-37.00	38.73	-56.92	-40.00	16.92	Vertical
5	13333.3	35.27	-36.70	39.70	-56.99	-40.00	16.99	Vertical
6	14485.025	33.54	-34.36	41.09	-54.98	-40.00	14.98	Vertical



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Report No.: SUCR240100001701
Rev.: 01
Page: 307 of 307

Test Band = LTE Band48_TM1
Test Channel = High FCC

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7361.925	50.24	-43.00	36.21	-51.80	-40.00	11.80	Horizontal
2	8500.425	42.14	-41.80	36.55	-58.37	-40.00	18.37	Horizontal
3	9865.475	37.96	-39.15	37.94	-58.51	-40.00	18.51	Horizontal
4	11444.425	36.61	-37.07	38.74	-56.97	-40.00	16.97	Horizontal
5	13149.875	35.16	-36.59	39.37	-57.32	-40.00	17.32	Horizontal
6	14516.075	33.12	-34.41	41.11	-55.44	-40.00	15.44	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7361.925	56.48	-43.00	36.21	-45.56	-40.00	5.56	Vertical
2	8675.8	41.70	-41.23	36.46	-58.33	-40.00	18.33	Vertical
3	9823.5	38.07	-39.09	37.86	-58.42	-40.00	18.42	Vertical
4	11043.075	38.44	-37.66	38.70	-55.77	-40.00	15.77	Vertical
5	12351.775	35.68	-36.82	38.91	-57.50	-40.00	17.50	Vertical
6	13964.075	33.11	-35.06	40.84	-56.38	-40.00	16.38	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

2) All antennas of RSE are tested, and only the worst data is presented.

---End of Attachment---



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