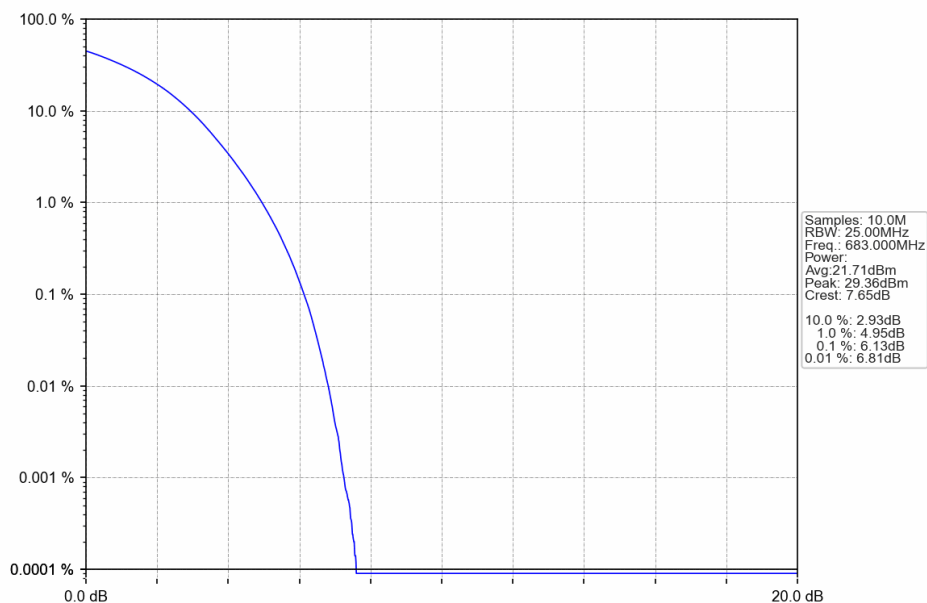


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Band71_20MHz_16QAM_MCH_683MHz_RB_100_0_NTNV



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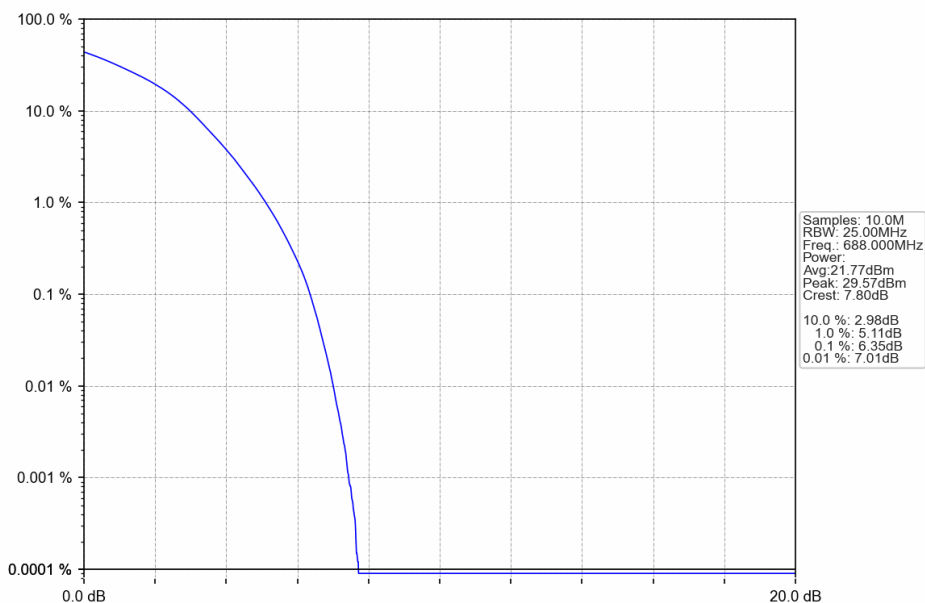
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5. Spurious Emission & Band Edge

5.1 B71_5MHz

5.1.1 Test Result

Band: 71 / Bandwidth: 5MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	665.5	1	0	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass
	680.5	1	0	Refer To Test Graph	Pass
	695.5	1	0	Refer To Test Graph	Pass
			24	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass



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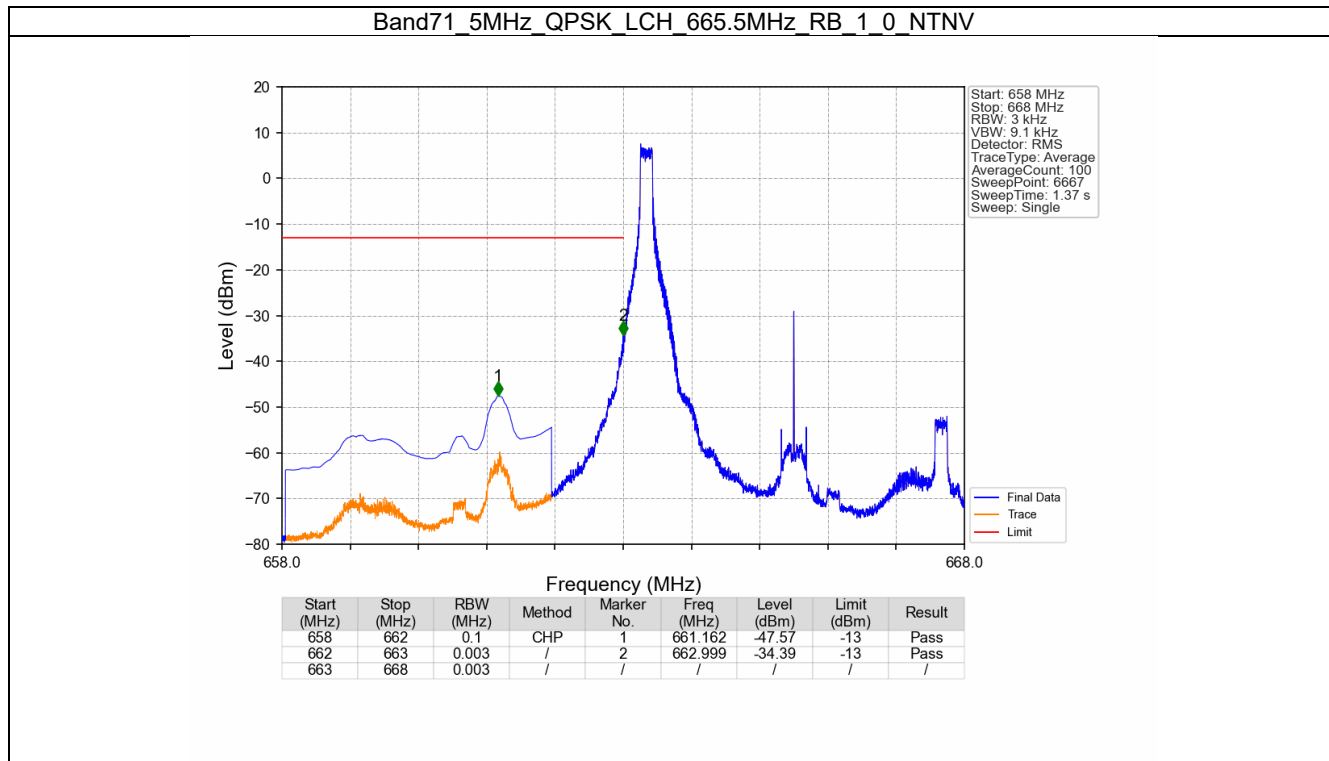
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5.1.2 Test Graph



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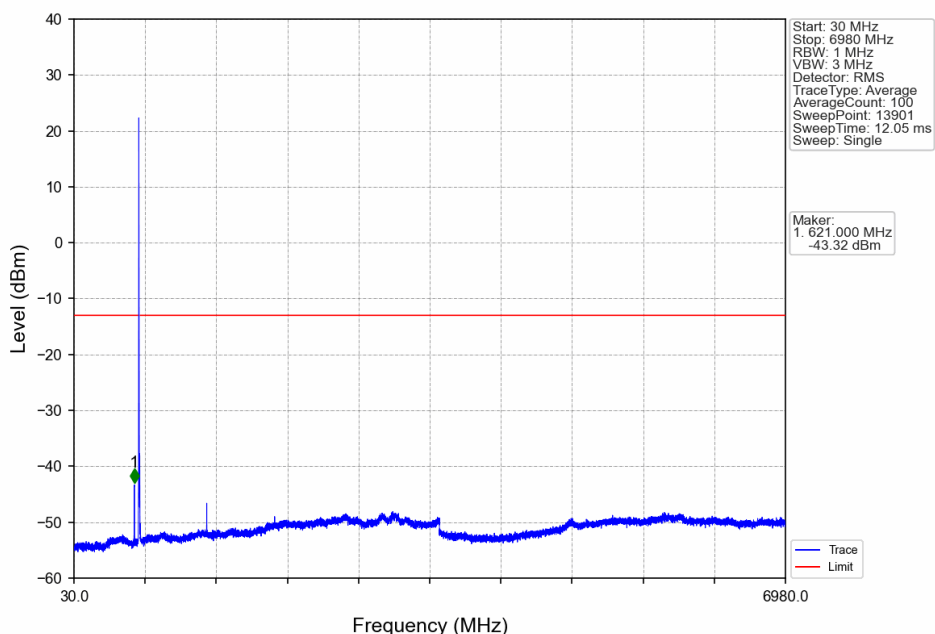
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Band71_5MHz_QPSK_LCH_665.5MHz_RB_1_0_NTNV



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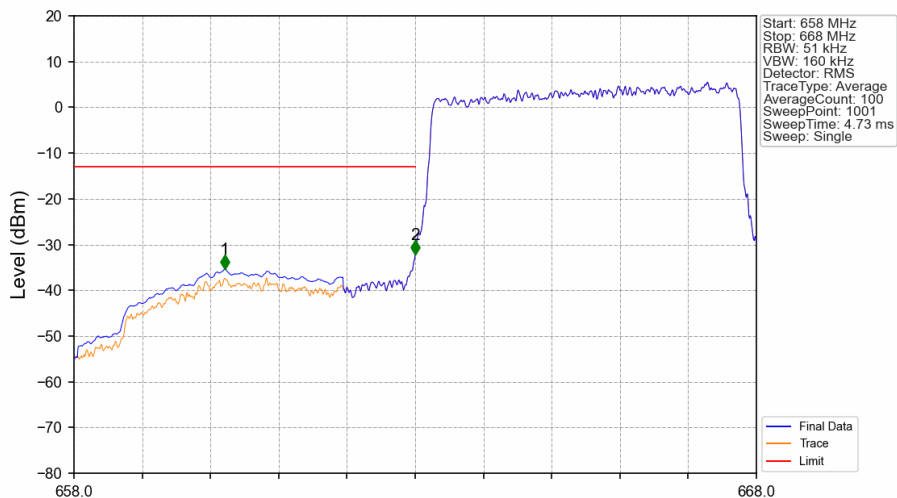
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Band71_5MHz_QPSK_LCH_665.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
658	662	0.1	CHP	1	660.210	-35.44	-13	Pass
662	663	0.051	/	2	663.000	-32.22	-13	Pass
663	668	0.051	/	/	/	/	/	/



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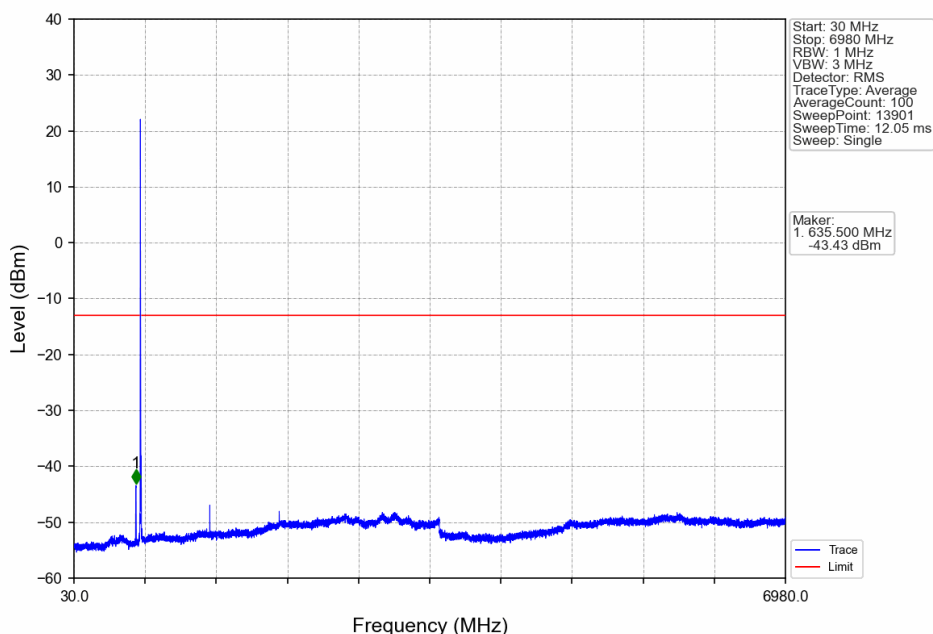
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Band71 5MHz_QPSK_MCH 680.5MHz_RB_1_0 NTN



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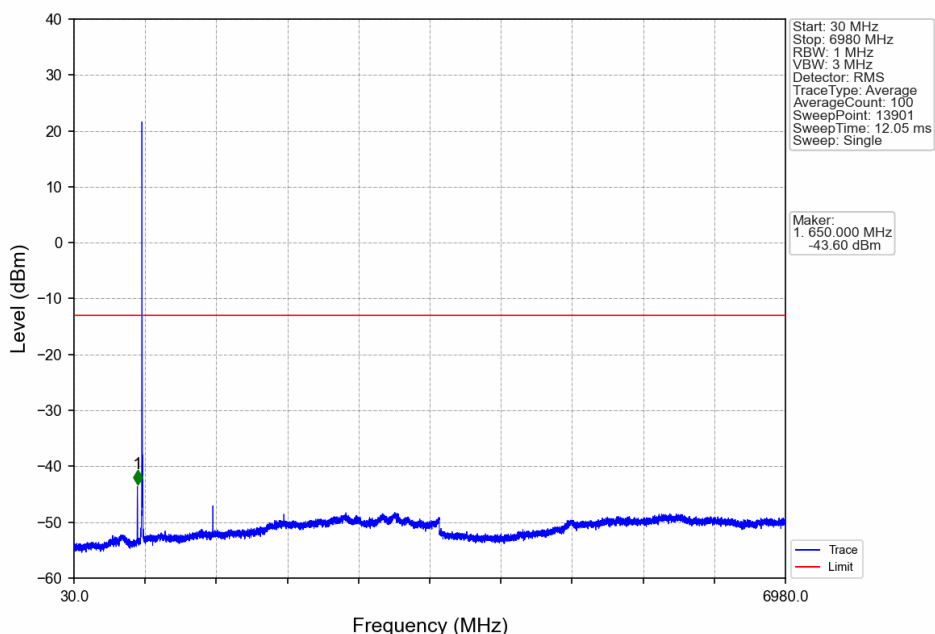
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Band71 5MHz QPSK HCH 695.5MHz_RB_1_0_NTNV



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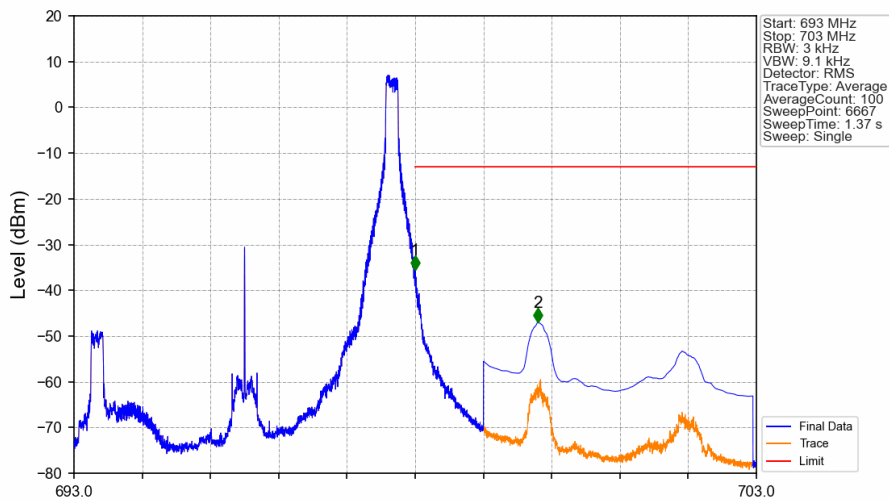
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Band71_5MHz_QPSK_HCH_695.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
693	698	0.003	/	1	698.000	-35.54	-13	Pass
698	699	0.003	/	1	698.000	-35.54	-13	Pass
699	703	0.1	CHP	2	699.797	-46.99	-13	Pass



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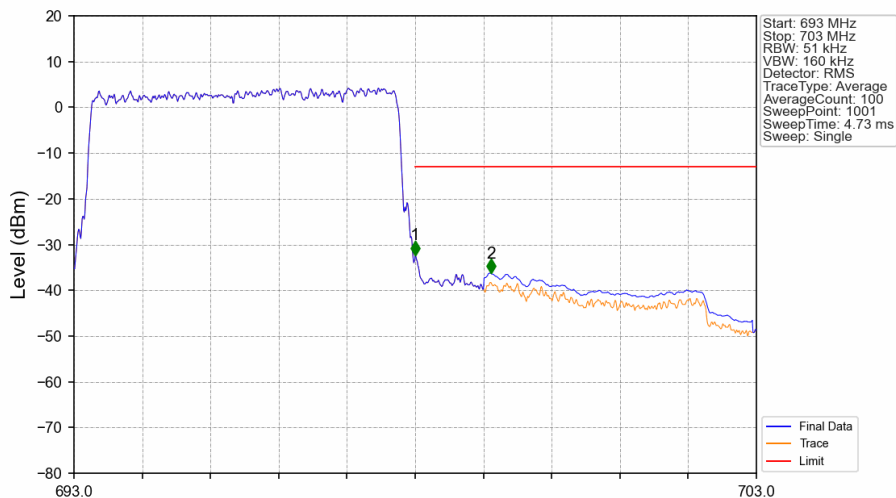
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Band71_5MHz_QPSK_HCH_695.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
693	698	0.051	/	1	698.000	-32.32	-13	Pass
698	699	0.051	/	2	699.110	-36.25	-13	Pass
699	703	0.1	CHP					



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5.2 B71_10MHz

5.2.1 Test Result

Band: 71 / Bandwidth: 10MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	668	1	0	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
	680.5	1	0	Refer To Test Graph	Pass
	693	1	0	Refer To Test Graph	Pass
			49	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass



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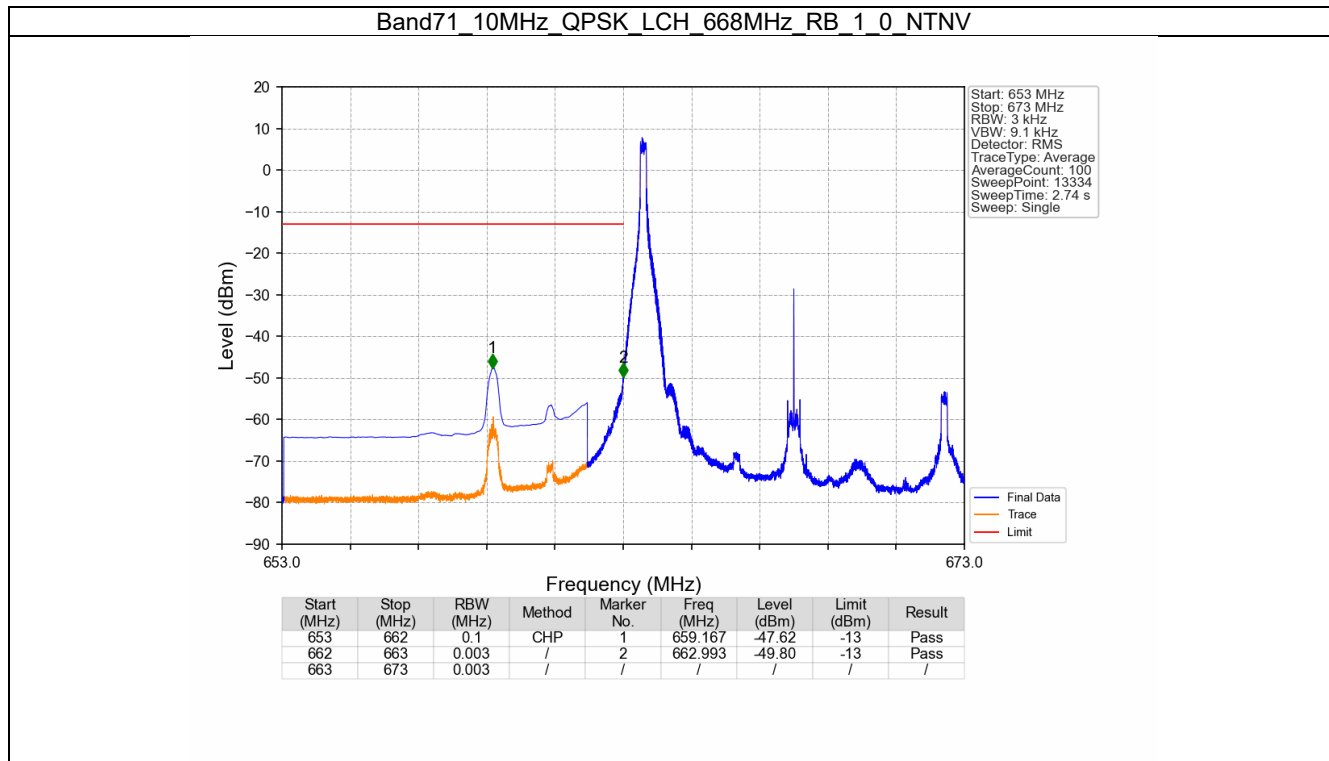
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5.2.2 Test Graph



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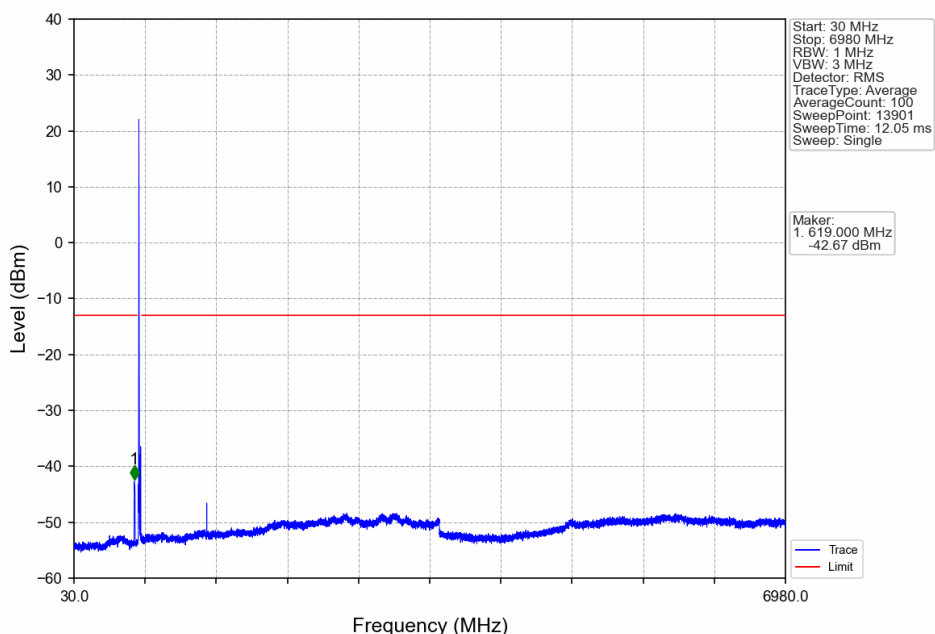
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Band71_10MHz_QPSK_LCH_668MHz_RB_1_0_NTNV



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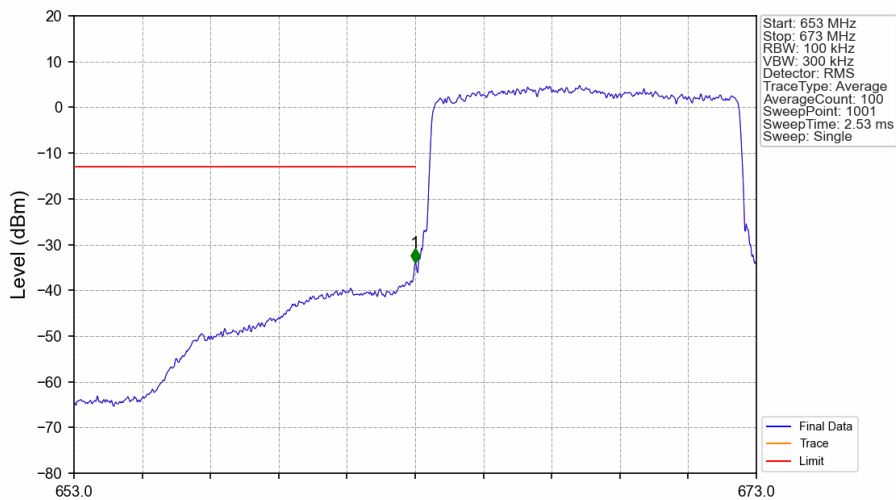
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Band71_10MHz_QPSK_LCH_668MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
653	663	0.1	/	1	663.000	-33.96	-13	Pass
663	673	0.1	/	/	/	/	/	/



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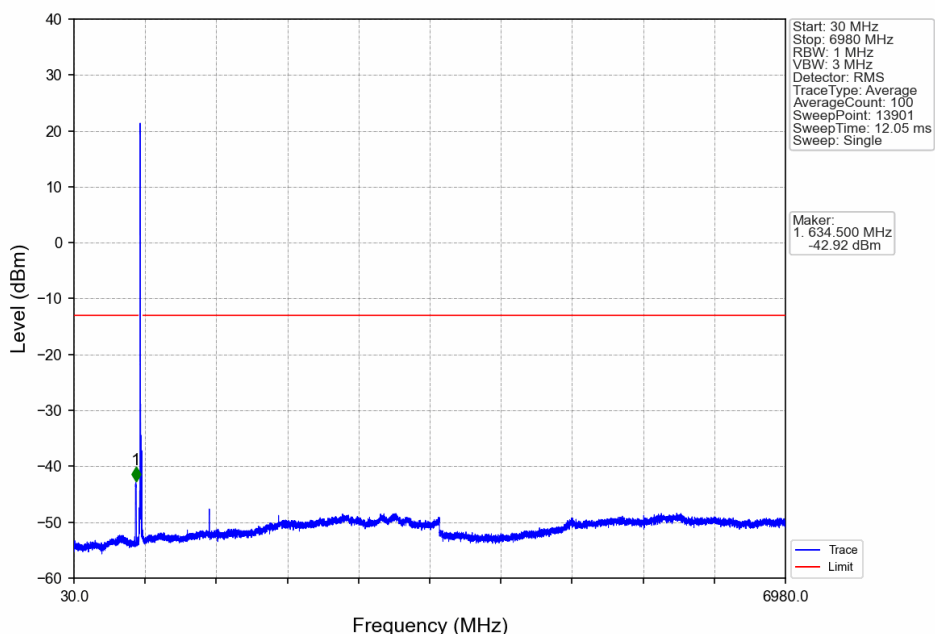
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Band71_10MHz_QPSK_MCH_680.5MHz_RB_1_0_NTNV



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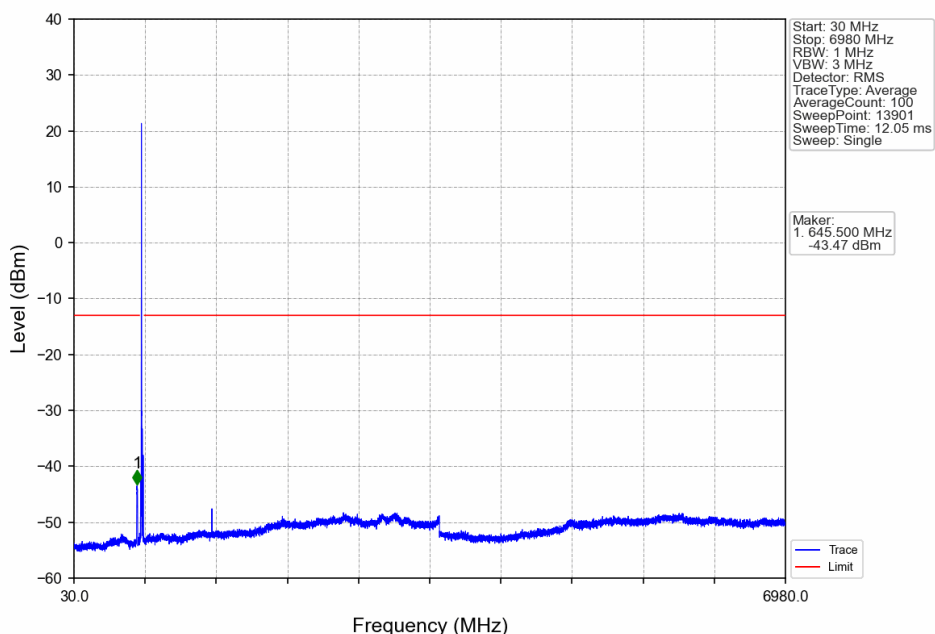
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Band71_10MHz_QPSK_HCH_693MHz_RB_1_0_NTNV



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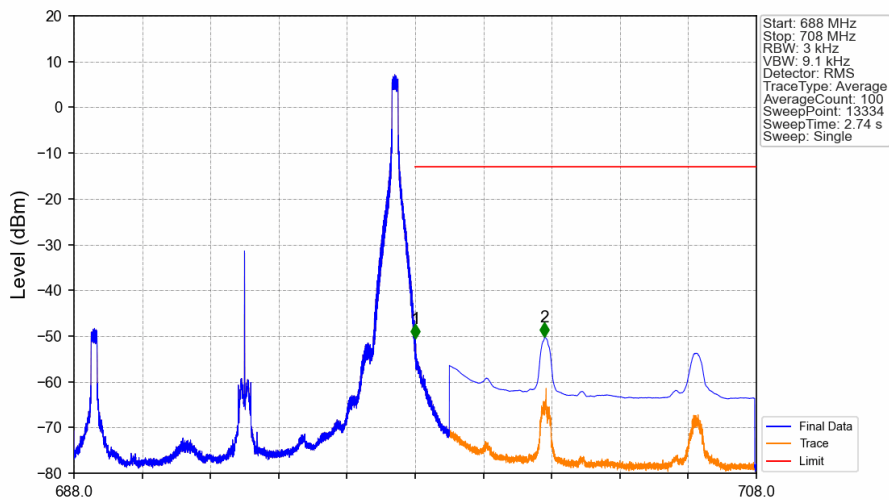
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Band71_10MHz_QPSK_HCH_693MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
688	698	0.003	/	1	698.002	-50.52	-13	Pass
698	699	0.003	/	2	701.793	-50.24	-13	Pass
699	708	0.1	CHP					



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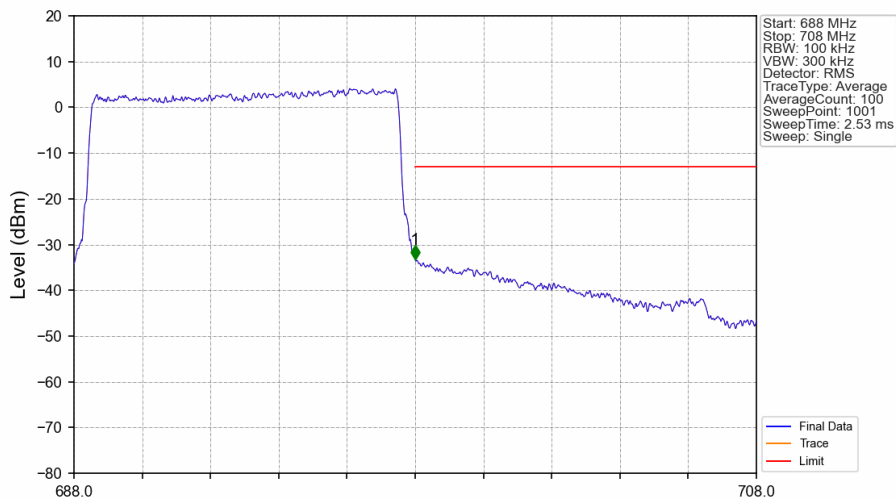
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Band71_10MHz_QPSK_HCH_693MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
688	698	0.1	/	/	/	/	/	/
698	708	0.1	/	1	698.000	-33.27	-13	Pass



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5.3 B71_15MHz

5.3.1 Test Result

Band: 71 / Bandwidth: 15MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	670.5	1	0	Refer To Test Graph	Pass
		75	0	Refer To Test Graph	Pass
	680.5	1	0	Refer To Test Graph	Pass
	690.5	1	0	Refer To Test Graph	Pass
			74	Refer To Test Graph	Pass
		75	0	Refer To Test Graph	Pass



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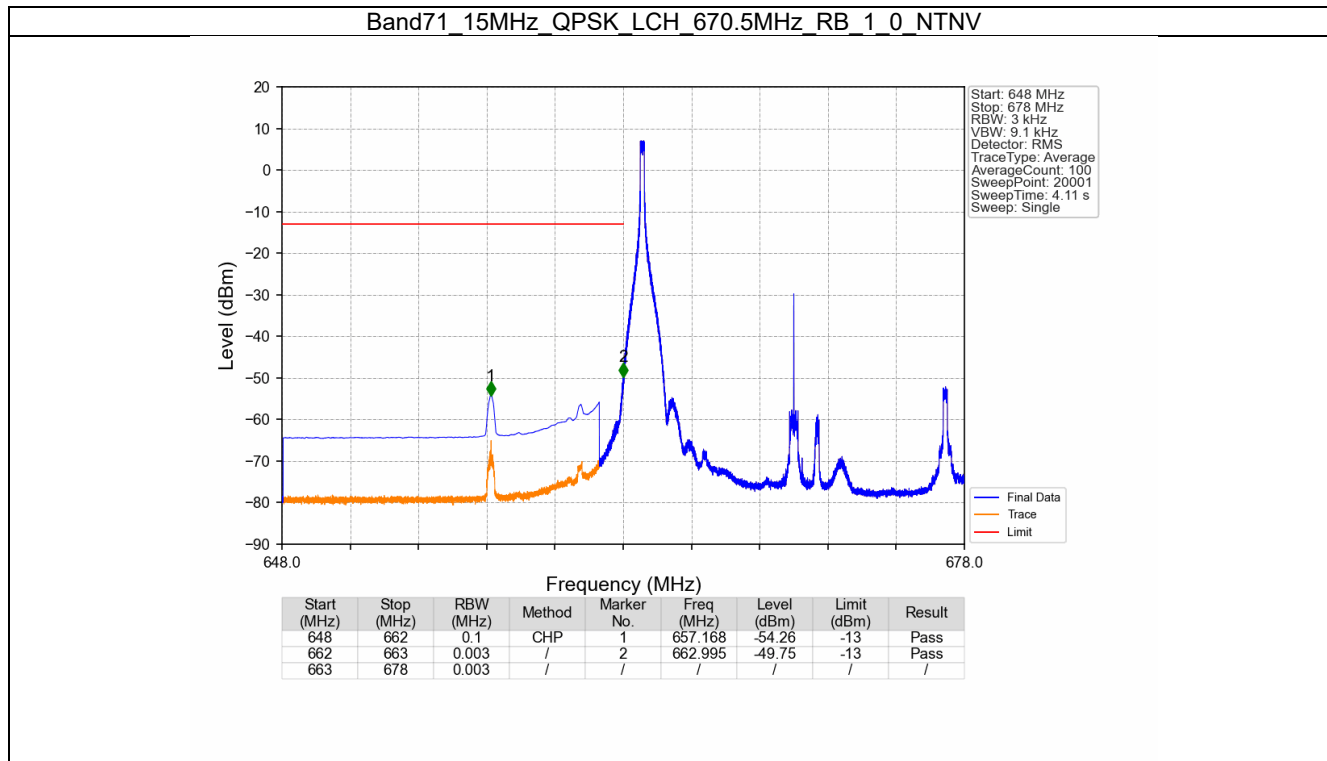
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5.3.2 Test Graph



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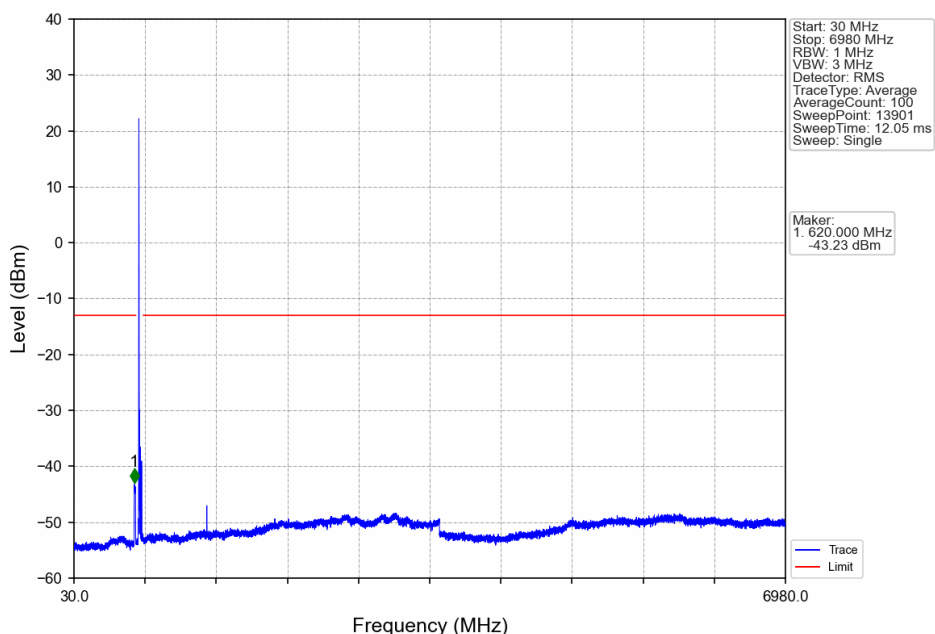
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Band71_15MHz_QPSK_LCH_670.5MHz_RB_1_0_NTNV



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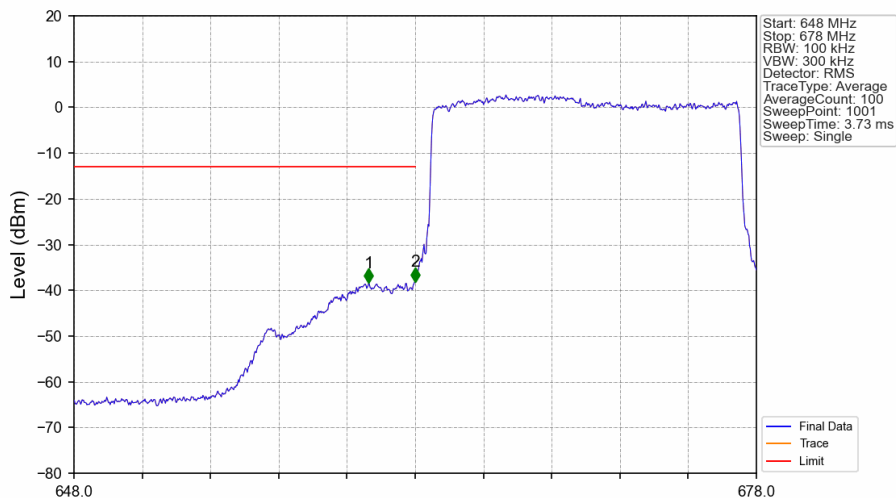
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Band71_15MHz_QPSK_LCH_670.5MHz_RB_75_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
648	662	0.1	/	1	660.960	-38.37	-13	Pass
662	663	0.149	/	2	663.000	-38.12	-13	Pass
663	678	0.149	/	/	/	/	/	/



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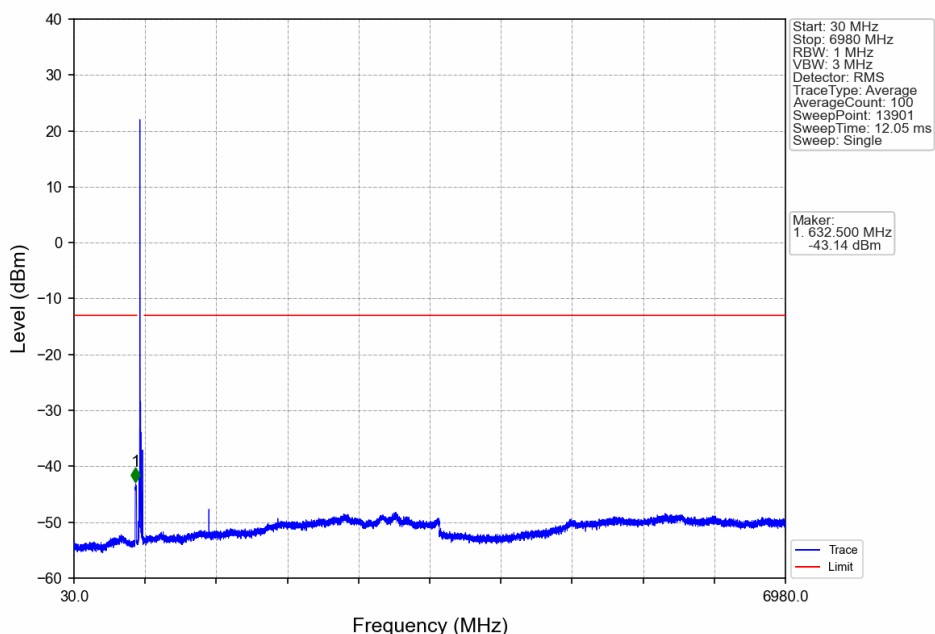
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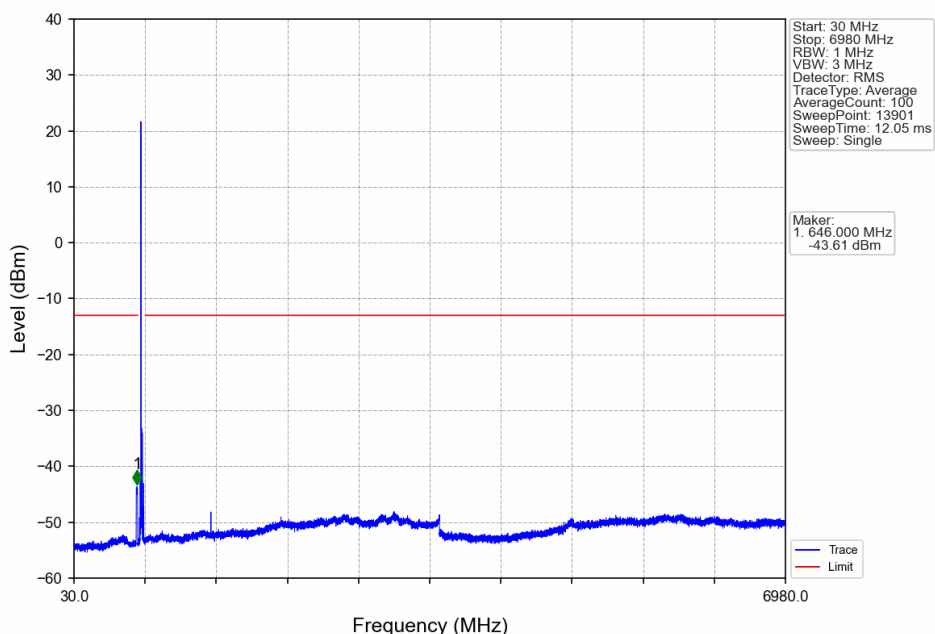
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Band71_15MHz_QPSK_HCH_690.5MHz_RB_1_0_NTNV



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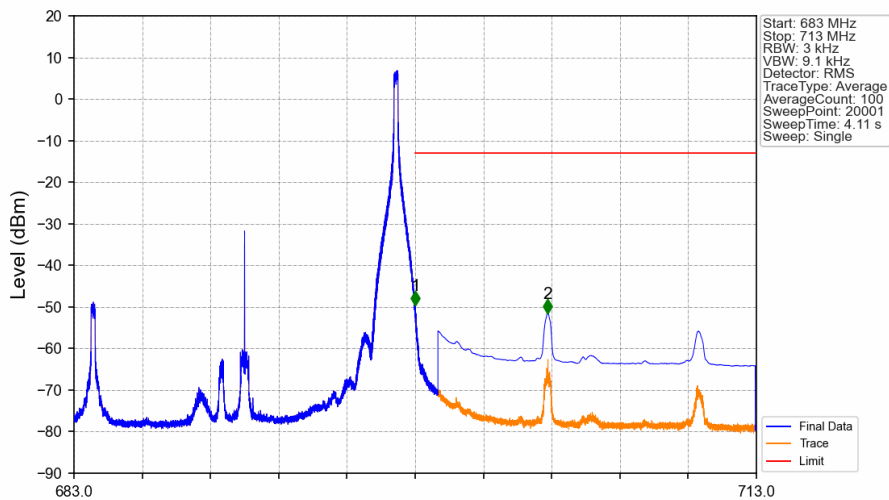
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Band71_15MHz_QPSK_HCH_690.5MHz_RB_1_74_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
683	698	0.003	/	1	698.003	-49.59	-13	Pass
698	699	0.003	/	2	703.808	-51.58	-13	Pass
699	713	0.1	CHP					



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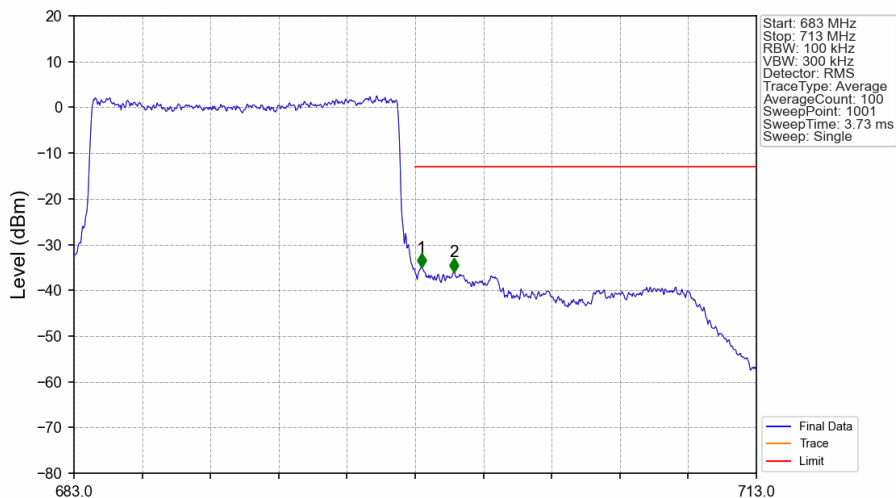
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Band71_15MHz_QPSK_HCH_690.5MHz_RB_75_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
683	698	0.151	/	1	698.270	-35.01	-13	Pass
698	699	0.1	/	2	699.710	-36.02	-13	Pass



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5.4 B71_20MHz

5.4.1 Test Result

Band: 71 / Bandwidth: 20MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	673	1	0	Refer To Test Graph	Pass
		100	0	Refer To Test Graph	Pass
	683	1	0	Refer To Test Graph	Pass
	688	1	0	Refer To Test Graph	Pass
			99	Refer To Test Graph	Pass
		100	0	Refer To Test Graph	Pass



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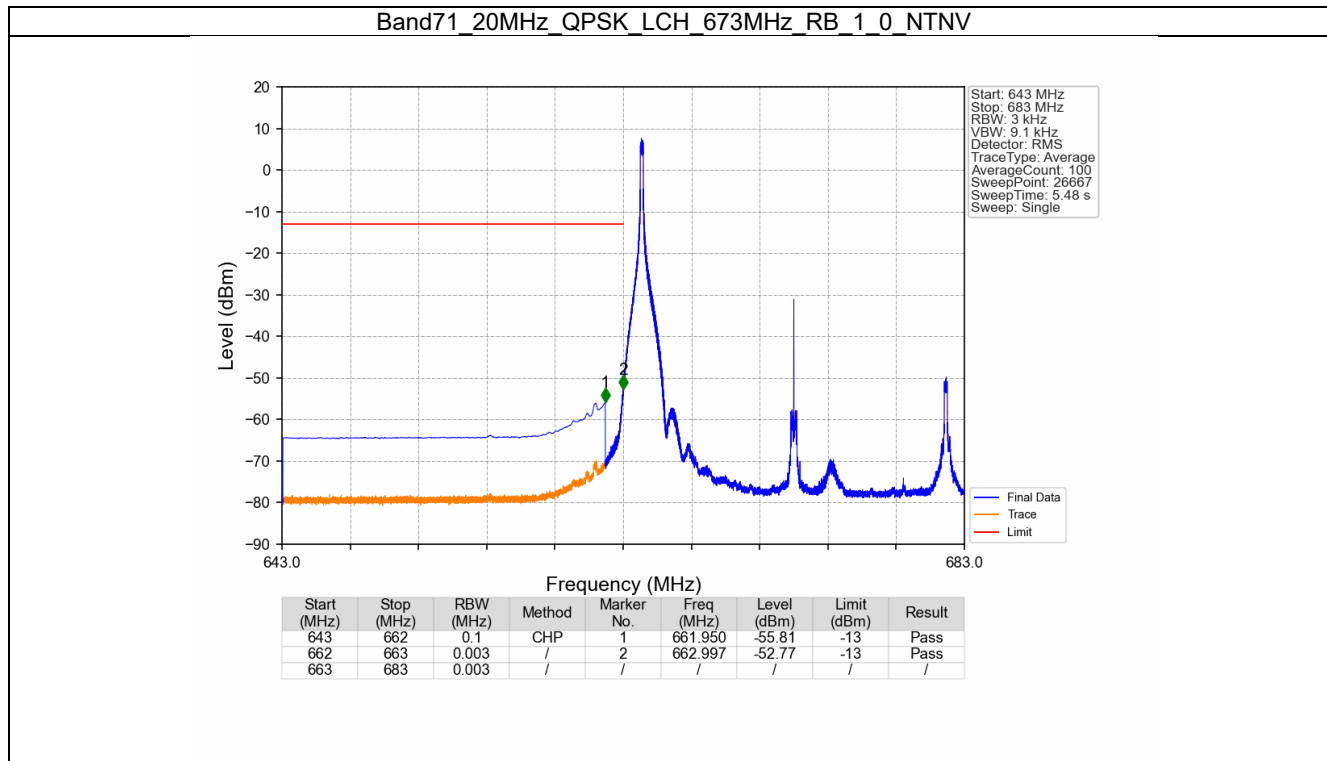
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5.4.2 Test Graph



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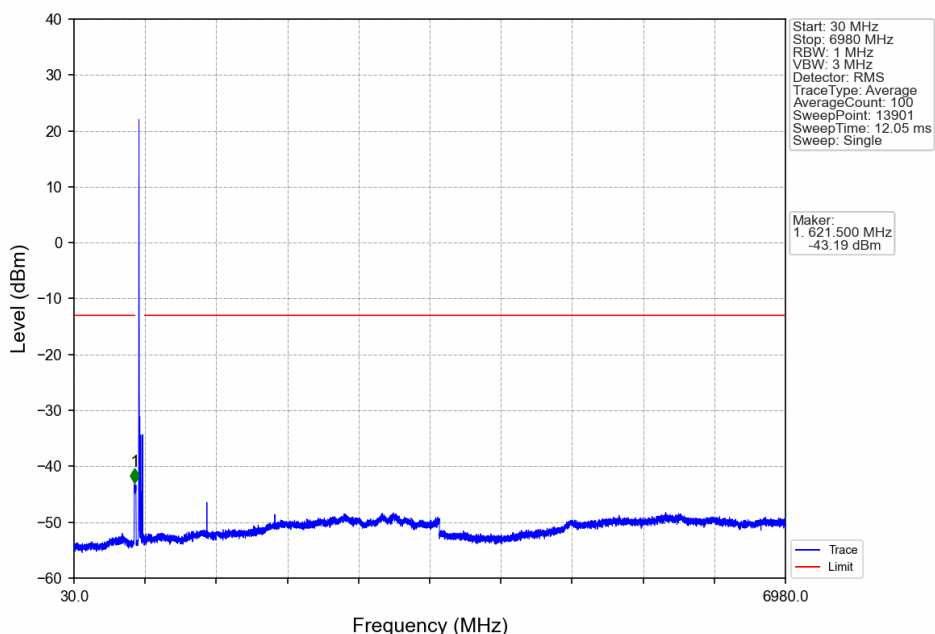
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Band71_20MHz_QPSK_LCH_673MHz_RB_1_0_NTNV



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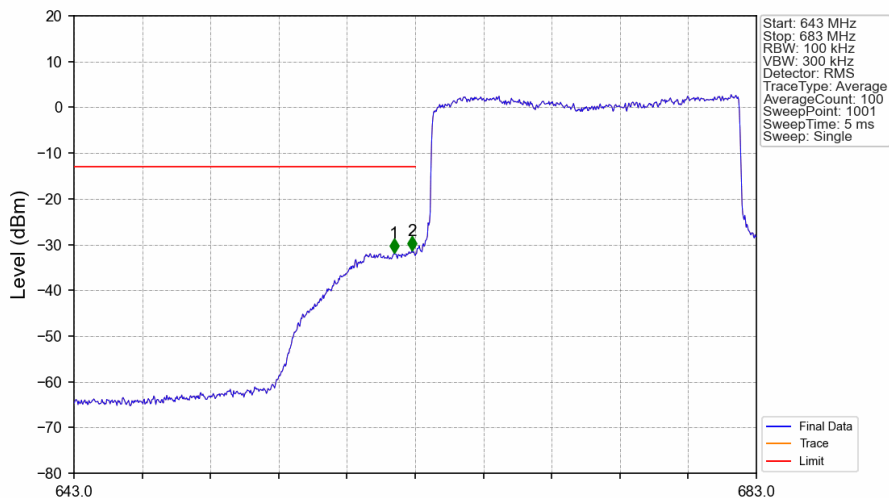
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Band71_20MHz_QPSK_LCH_673MHz_RB_100_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
643	662	0.1	/	1	661.760	-31.90	-13	Pass
662	663	0.198	/	2	662.800	-31.36	-13	Pass
663	683	0.198	/	/	/	/	/	/



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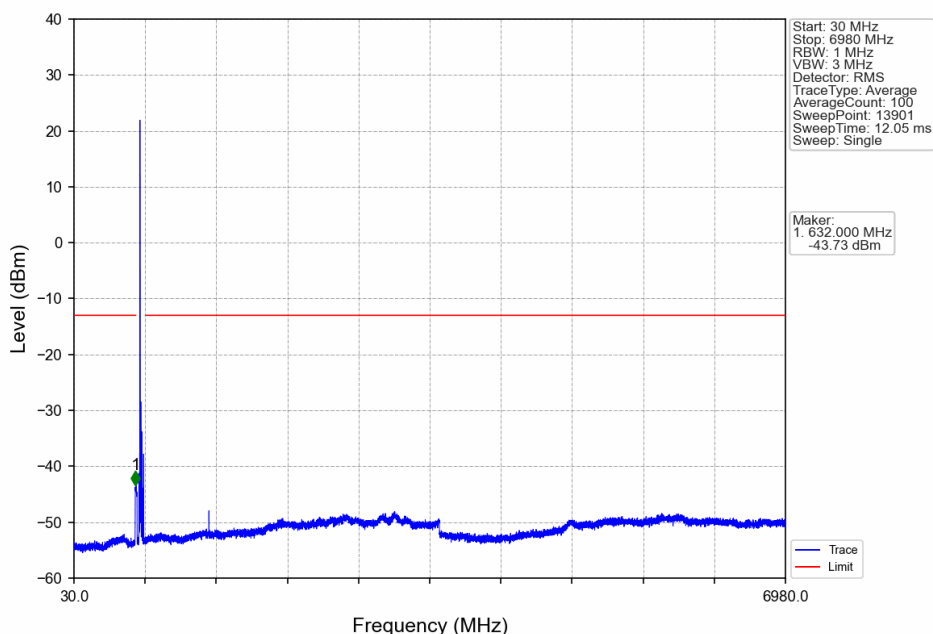
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Band71_20MHz_QPSK_MCH_683MHz_RB_1_0_NTNV



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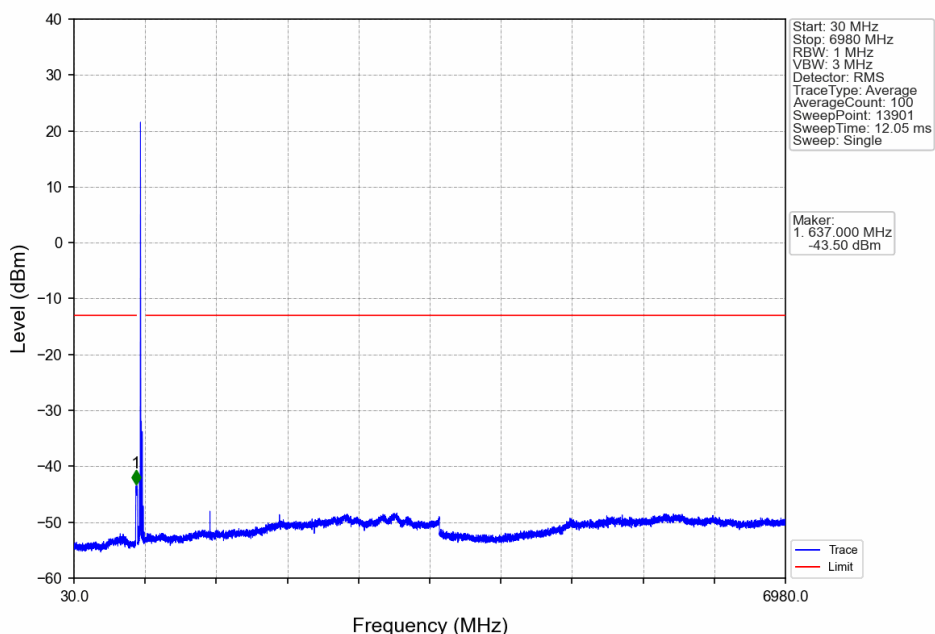
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Band71_20MHz_QPSK_HCH_688MHz_RB_1_0_NTNV



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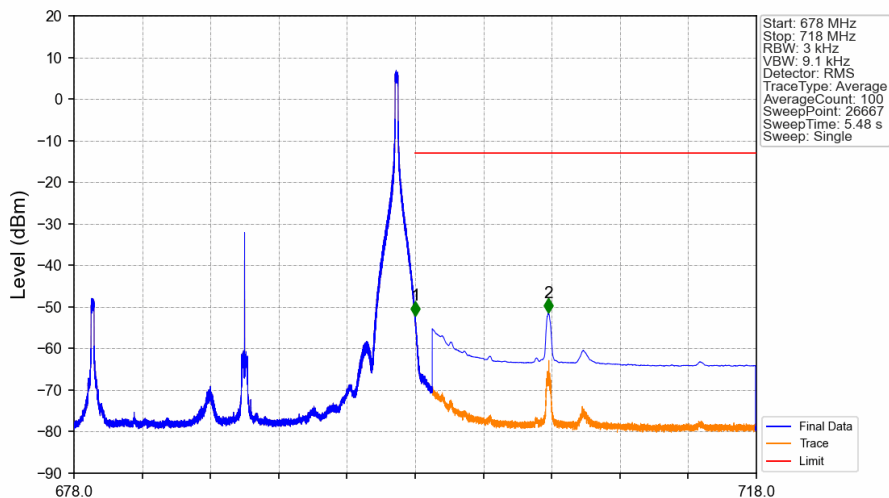
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Band71_20MHz_QPSK_HCH_688MHz_RB_1_99_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
678	698	0.003	/	1	698.005	-52.09	-13	Pass
698	699	0.003	/	1	698.005	-52.09	-13	Pass
699	718	0.1	CHP	2	705.790	-51.45	-13	Pass



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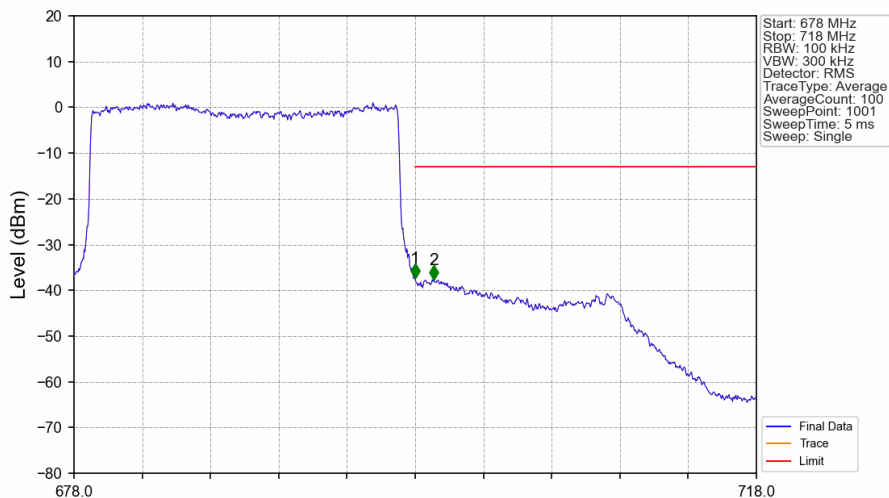
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Band71_20MHz_QPSK_HCH_688MHz_RB_100_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
678	698	0.198	/	/	/	/	/	/
698	699	0.198	/	1	698.000	-37.29	-13	Pass
699	718	0.1	/	2	699.080	-37.69	-13	Pass



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6. Field Strength of Spurious Radiation

Test Band = LTE Band 71_ 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	1170.8571	46.65	-48.49	25.14	-71.95	-13.00	58.95	Horizontal
2	1550.2857	46.23	-48.30	25.35	-71.98	-13.00	58.98	Horizontal
3	2062.8571	46.52	-47.78	26.33	-70.19	-13.00	57.19	Horizontal
4	2676.5714	46.03	-47.02	27.52	-68.73	-13.00	55.73	Horizontal
5	3574.2857	45.22	-46.39	28.72	-67.71	-13.00	54.71	Horizontal
6	4900	44.73	-45.58	31.24	-64.87	-13.00	51.87	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1266.8571	46.77	-48.28	25.13	-71.63	-13.00	58.63	Vertical
2	1676.5714	46.11	-48.19	25.48	-71.86	-13.00	58.86	Vertical
3	2208.5714	46.56	-47.66	26.62	-69.75	-13.00	56.75	Vertical
4	2972	45.49	-46.53	28.05	-68.25	-13.00	55.25	Vertical
5	3801.1429	44.42	-46.16	29.08	-67.92	-13.00	54.92	Vertical
6	5419.4286	45.41	-45.00	32.15	-62.70	-13.00	49.70	Vertical



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Test Band = LTE Band 71_ 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	1301.7143	46.98	-48.13	25.15	-71.26	-13.00	58.26	Horizontal
2	1758.2857	45.99	-48.04	25.56	-71.75	-13.00	58.75	Horizontal
3	2546.8571	46.34	-47.11	27.28	-68.75	-13.00	55.75	Horizontal
4	3063.4286	45.95	-46.67	28.16	-67.81	-13.00	54.81	Horizontal
5	4408.5714	44.68	-45.87	30.38	-66.06	-13.00	53.06	Horizontal
6	5765.7143	44.55	-44.63	32.35	-62.99	-13.00	49.99	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1304.5714	46.83	-48.12	25.15	-71.40	-13.00	58.40	Vertical
2	1595.4286	46.28	-48.28	25.40	-71.87	-13.00	58.87	Vertical
3	2372.5714	46.41	-47.46	26.95	-69.37	-13.00	56.37	Vertical
4	3044.5714	45.60	-46.62	28.14	-68.14	-13.00	55.14	Vertical
5	4431.4286	44.65	-45.80	30.44	-65.97	-13.00	52.97	Vertical
6	5930.2857	45.04	-44.81	32.39	-62.64	-13.00	49.64	Vertical



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Test Band = LTE Band 71_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	1266.8571	46.97	-48.28	25.13	-71.43	-13.00	58.43	Horizontal
2	1640	46.25	-48.23	25.44	-71.80	-13.00	58.80	Horizontal
3	2401.7143	46.45	-47.45	27.00	-69.25	-13.00	56.25	Horizontal
4	3032.5714	45.68	-46.59	28.13	-68.04	-13.00	55.04	Horizontal
5	4110.8571	43.95	-45.91	29.67	-67.55	-13.00	54.55	Horizontal
6	5464	44.72	-45.08	32.24	-63.38	-13.00	50.38	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1302.2857	46.78	-48.13	25.15	-71.46	-13.00	58.46	Vertical
2	1448	46.31	-48.15	25.25	-71.86	-13.00	58.86	Vertical
3	2229.1429	46.50	-47.63	26.66	-69.73	-13.00	56.73	Vertical
4	2896.5714	45.32	-46.58	27.91	-68.61	-13.00	55.61	Vertical
5	3957.1429	44.80	-46.21	29.33	-67.34	-13.00	54.34	Vertical
6	5256	44.94	-45.16	31.86	-63.62	-13.00	50.62	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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