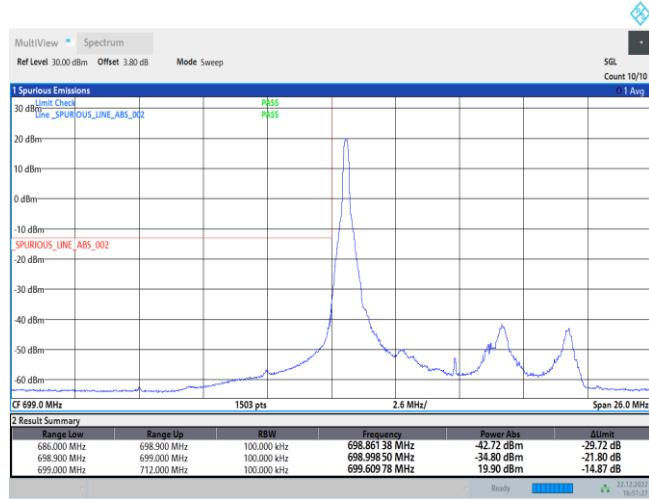
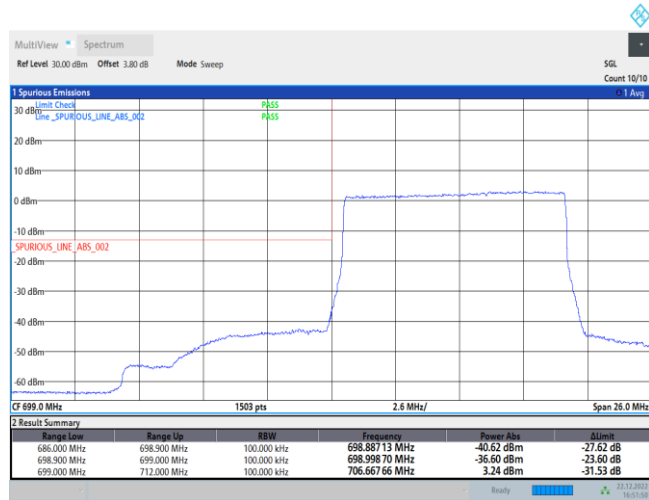


Band12-10MHz-QPSK-23060-1RB#0



16:51:27 22.12.2022

Band12-10MHz-QPSK-23060-50RB#0



16:51:50 22.12.2022

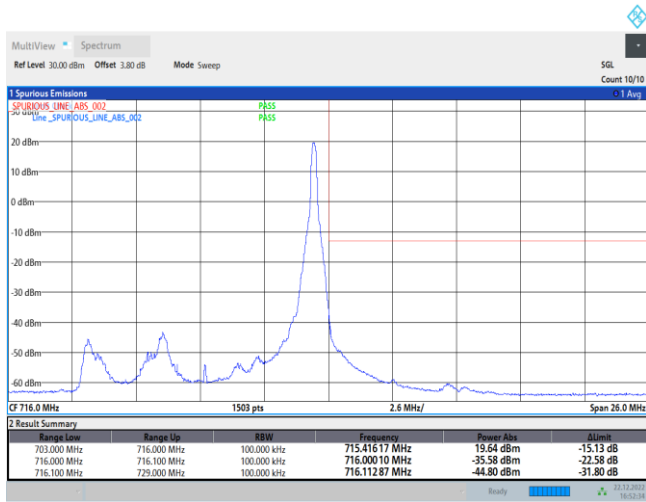


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Band12-10MHz-QPSK-23130-1RB#49



16:52:34 22.12.2022

Band12-10MHz-QPSK-23130-50RB#0



16:52:57 22.12.2022



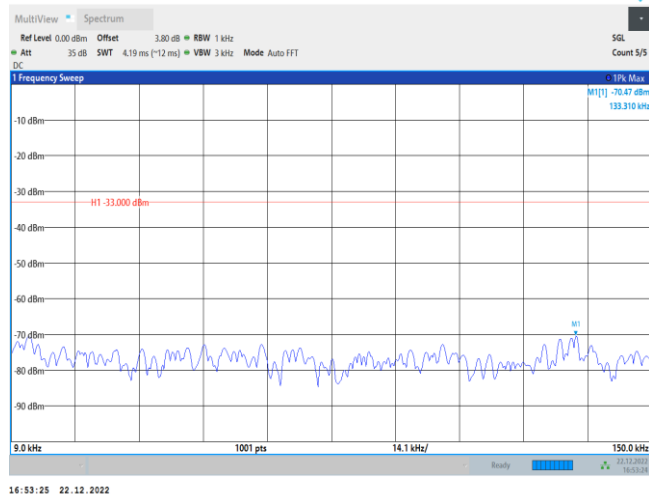
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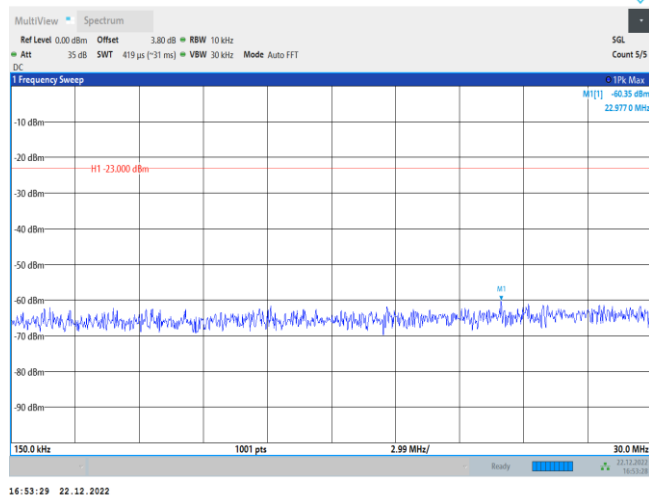
Conducted Spurious Emission

Test Graphs

Band12-10MHz-QPSK-23060-1RB#0-Range1:0.009~0.15MHz



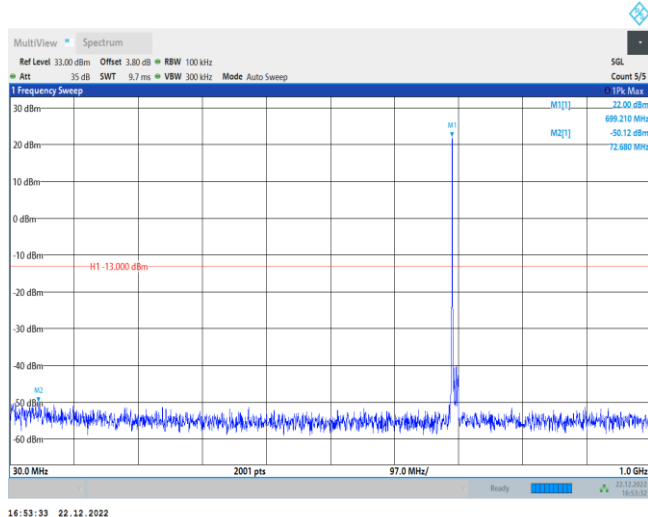
Band12-10MHz-QPSK-23060-1RB#0-Range2:0.15~30MHz



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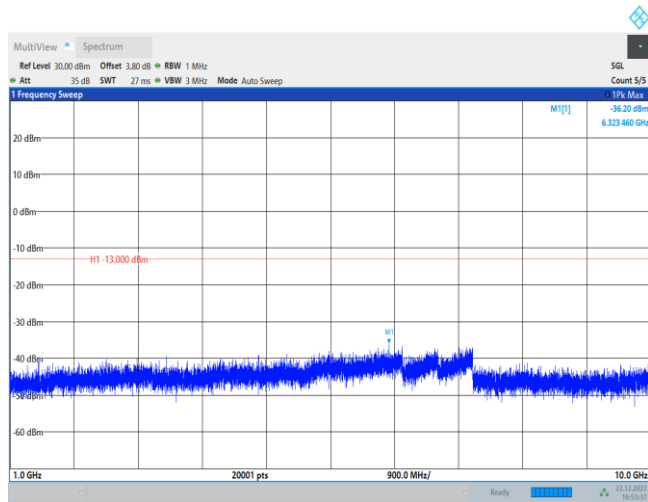
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Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz



16:53:33 22.12.2022

Band12-10MHz-QPSK-23060-1RB#0-Range4:1000~10000MHz



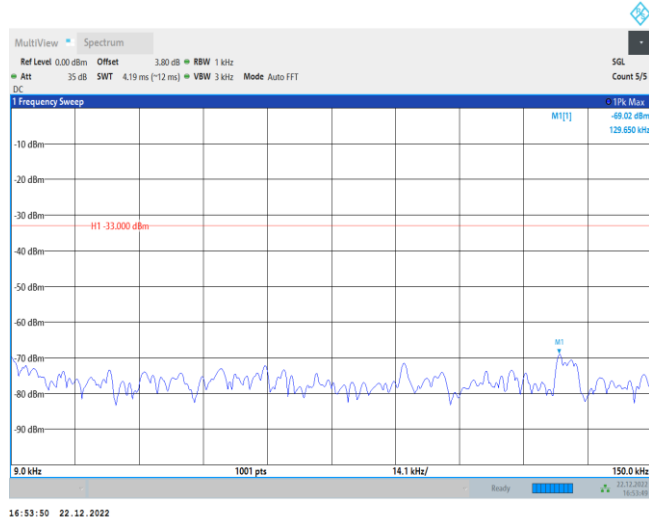
16:53:37 22.12.2022



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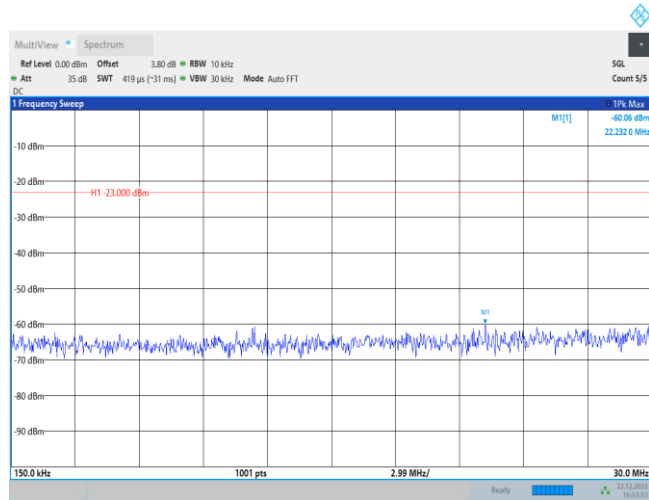
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Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



16:53:50 22.12.2022

Band12-10MHz-QPSK-23095-1RB#0-Range2:0.15~30MHz



16:53:54 22.12.2022

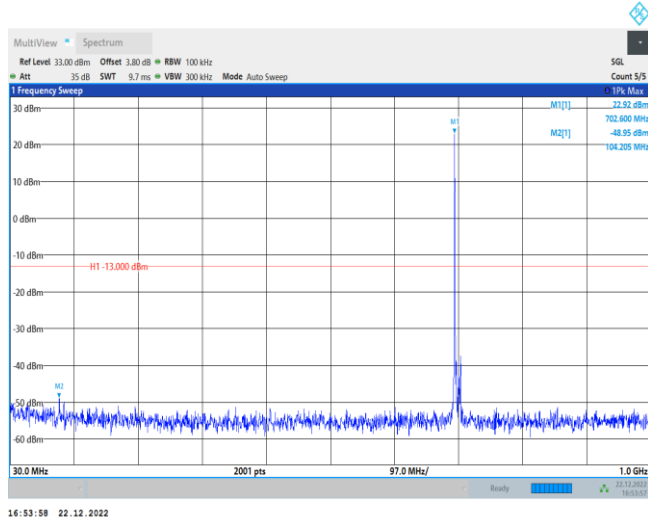


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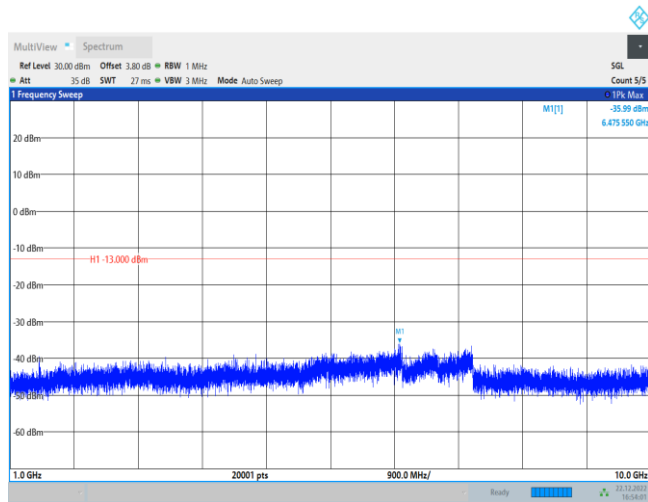
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Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz



16:53:58 22.12.2022

Band12-10MHz-QPSK-23095-1RB#0-Range4:1000~10000MHz



16:54:01 22.12.2022

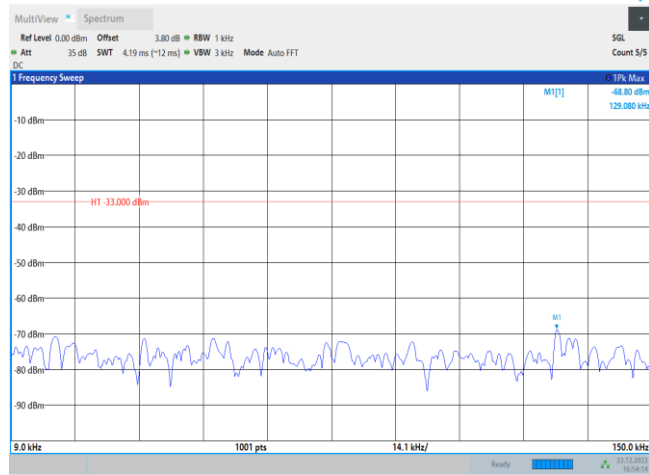


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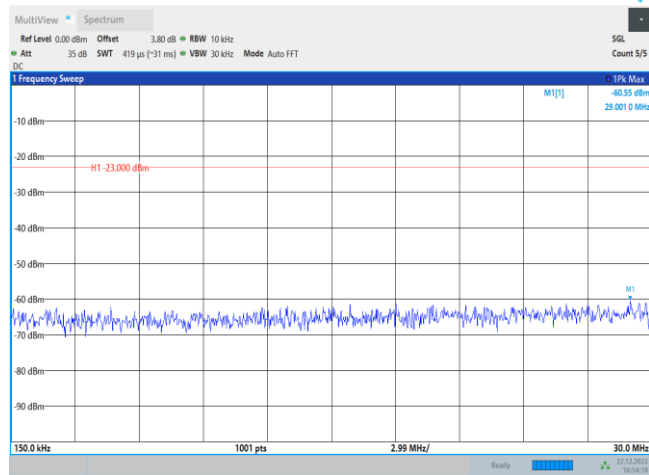
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Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz



16:54:15 22.12.2022

Band12-10MHz-QPSK-23130-1RB#0-Range2:0.15~30MHz



16:54:18 22.12.2022

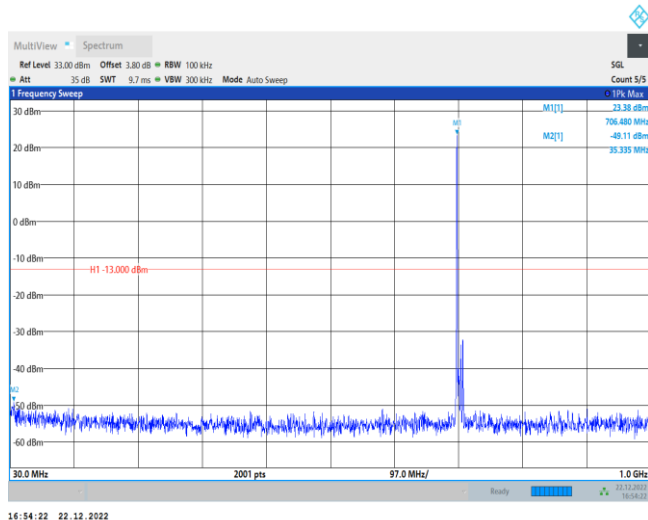


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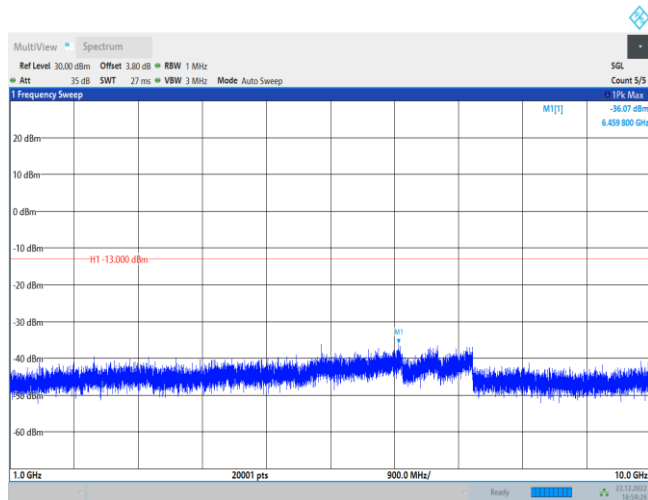
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Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



16:54:22 22.12.2022

Band12-10MHz-QPSK-23130-1RB#0-Range4:1000~10000MHz



16:54:26 22.12.2022



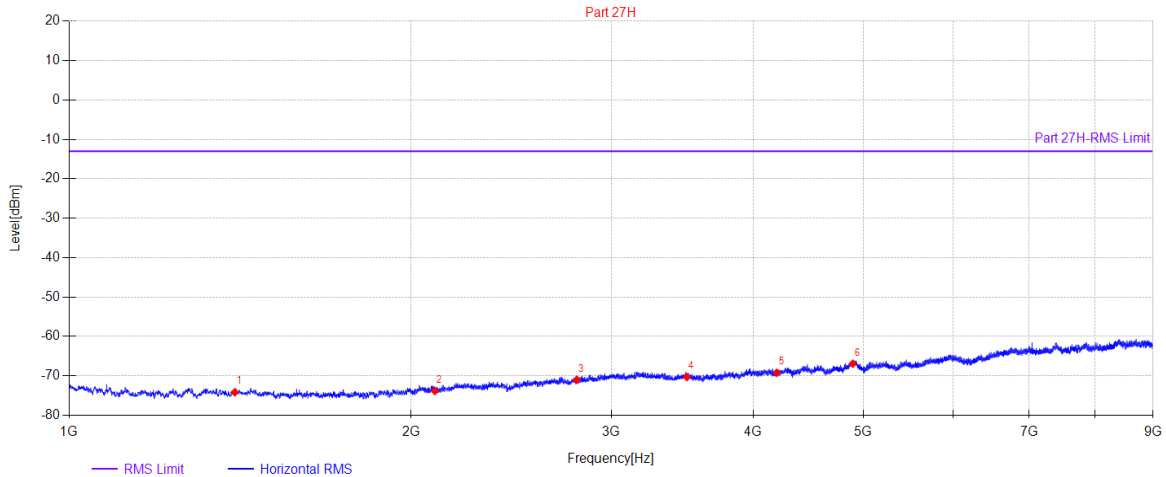
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Field Strength of Spurious Radiation

Test Band = LTE Band12_QPSK_10MHz_TM1

Test Channel = Low



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.1800	43.48	-48.00	25.62	-74.16	-13.00	61.16	248	238	Horizontal
2	2098.7700	42.15	-47.71	26.99	-73.84	-13.00	60.84	175	306	Horizontal
3	2798.3600	42.71	-46.92	28.48	-70.99	-13.00	57.99	136	6	Horizontal
4	3497.9500	41.99	-46.54	29.52	-70.29	-13.00	57.29	254	52	Horizontal
5	4197.5400	40.89	-45.96	31.10	-69.23	-13.00	56.23	144	199	Horizontal
6	4897.1300	41.33	-45.58	32.59	-66.92	-13.00	53.92	199	187	Horizontal

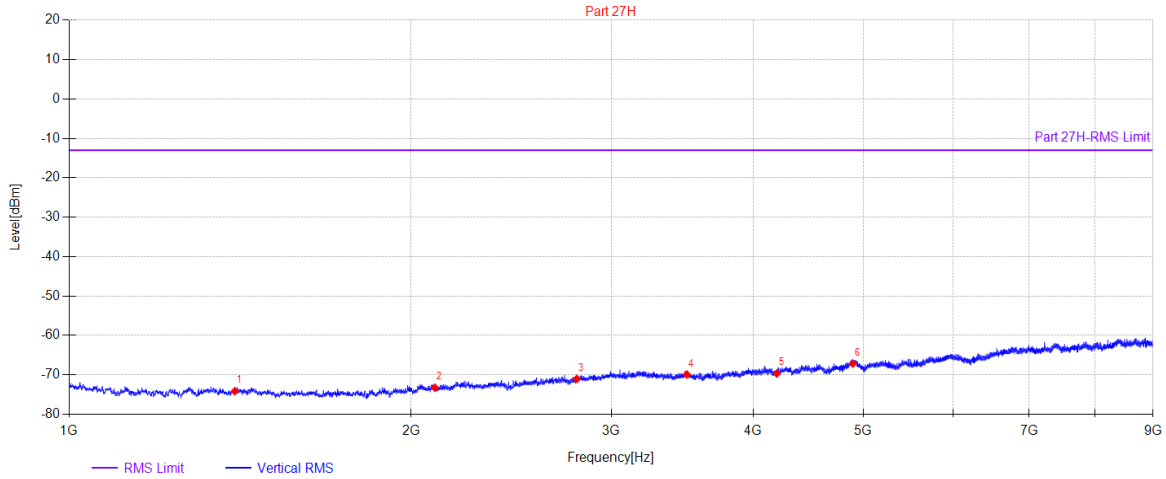


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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.1800	43.49	-48.00	25.62	-74.15	-13.00	61.15	227	326	Vertical
2	2098.7700	42.74	-47.71	26.99	-73.25	-13.00	60.25	148	286	Vertical
3	2798.3600	42.70	-46.92	28.48	-71.00	-13.00	58.00	254	203	Vertical
4	3497.9500	42.36	-46.54	29.52	-69.92	-13.00	56.92	165	4	Vertical
5	4197.5400	40.47	-45.96	31.10	-69.65	-13.00	56.65	218	203	Vertical
6	4897.1300	41.09	-45.58	32.59	-67.16	-13.00	54.16	236	257	Vertical



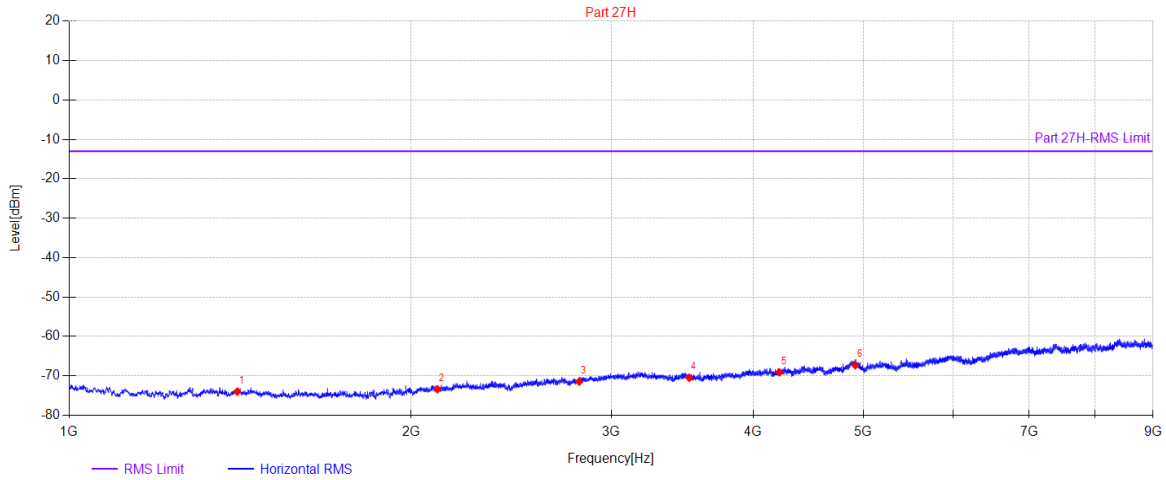
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Test Band = LTE Band12_QPSK_10MHz_TM1

Test Channel = Mid



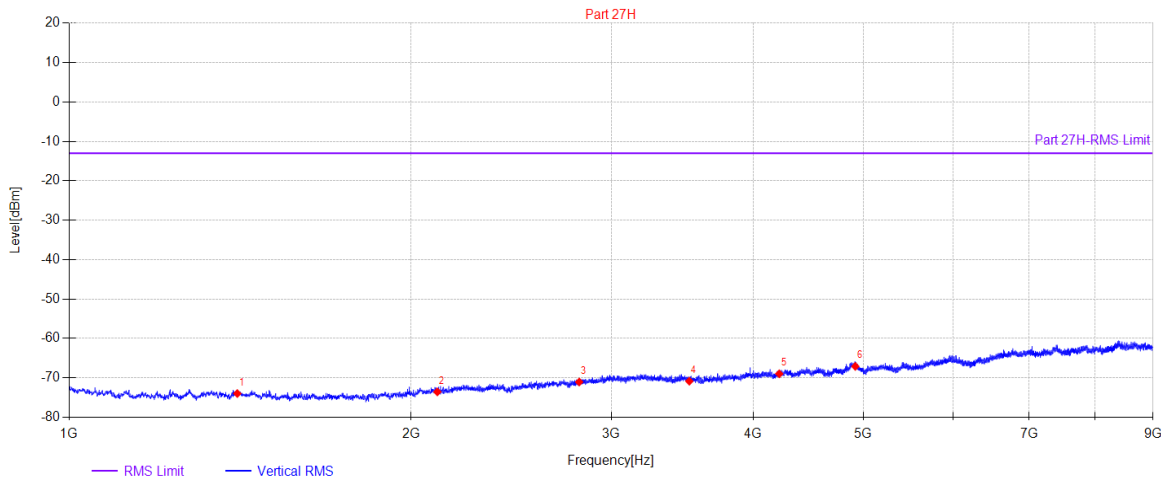
Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.1800	43.66	-48.02	25.61	-74.01	-13.00	61.01	274	197	Horizontal
2	2109.2700	42.55	-47.71	27.02	-73.39	-13.00	60.39	148	49	Horizontal
3	2812.3600	42.14	-46.88	28.53	-71.46	-13.00	58.46	125	171	Horizontal
4	3515.4500	41.74	-46.51	29.53	-70.49	-13.00	57.49	261	62	Horizontal
5	4218.5400	40.96	-45.93	31.14	-69.09	-13.00	56.09	198	2	Horizontal
6	4921.6300	40.92	-45.63	32.66	-67.31	-13.00	54.31	142	356	Horizontal



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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.1800	43.69	-48.02	25.61	-73.98	-13.00	60.98	236	108	Vertical
2	2109.2700	42.38	-47.71	27.02	-73.56	-13.00	60.56	215	53	Vertical
3	2812.3600	42.55	-46.88	28.53	-71.05	-13.00	58.05	145	53	Vertical
4	3515.4500	41.38	-46.51	29.53	-70.85	-13.00	57.85	288	360	Vertical
5	4218.5400	41.09	-45.93	31.14	-68.96	-13.00	55.96	194	336	Vertical
6	4921.6300	41.14	-45.63	32.66	-67.09	-13.00	54.09	170	298	Vertical

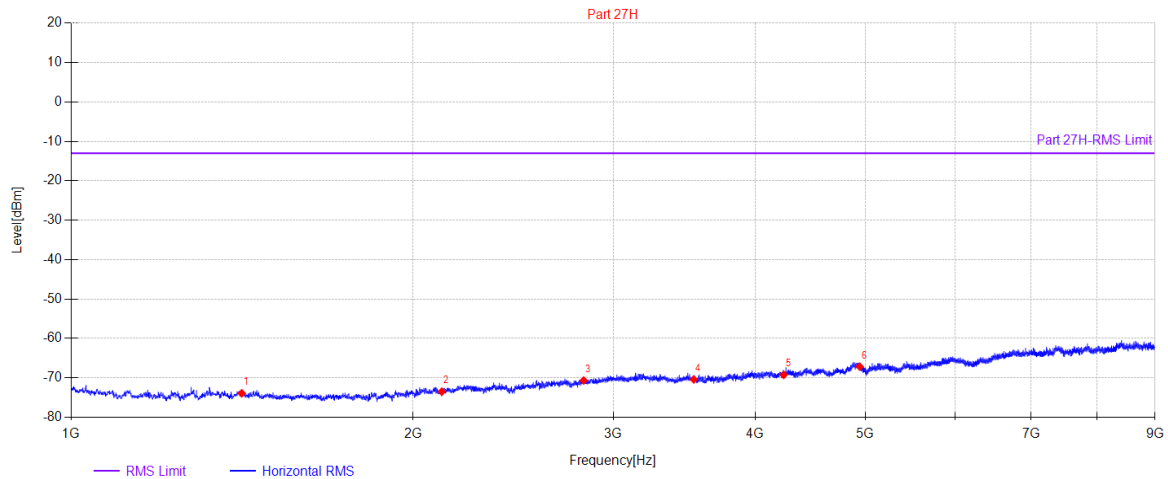


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Test Band = LTE Band12_QPSK_10MHz_TM1

Test Channel = High



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.1800	43.78	-48.04	25.60	-73.92	-13.00	60.92	256	356	Horizontal
2	2119.7700	42.40	-47.70	27.06	-73.50	-13.00	60.50	142	0	Horizontal
3	2826.3600	42.82	-46.83	28.60	-70.67	-13.00	57.67	174	332	Horizontal
4	3532.9500	41.79	-46.47	29.55	-70.39	-13.00	57.39	158	142	Horizontal
5	4239.5400	40.75	-45.89	31.18	-69.22	-13.00	56.22	136	64	Horizontal
6	4946.1300	41.07	-45.69	32.73	-67.15	-13.00	54.15	255	346	Horizontal

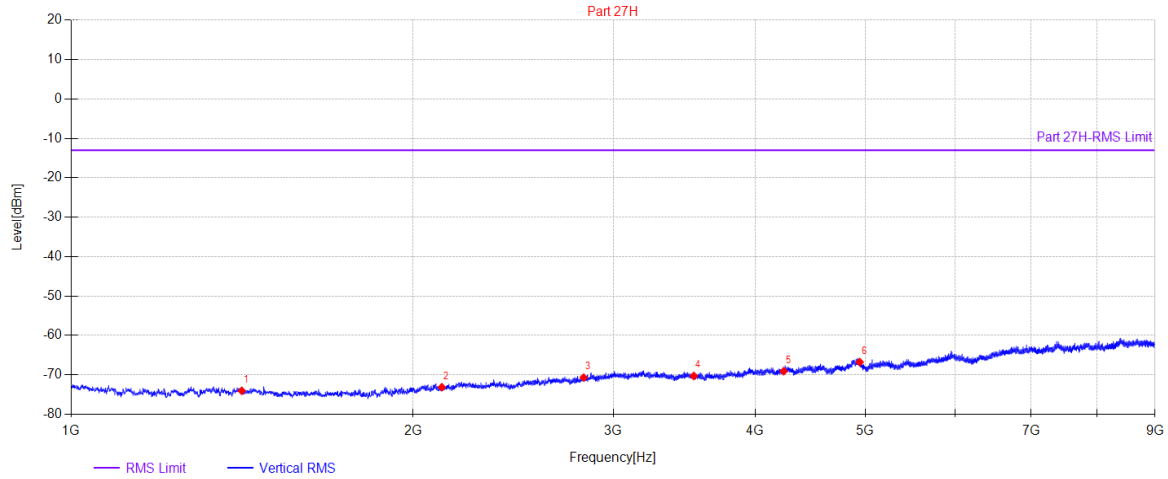


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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.1800	43.65	-48.04	25.60	-74.05	-13.00	61.05	248	106	Vertical
2	2119.7700	42.78	-47.70	27.06	-73.12	-13.00	60.12	175	13	Vertical
3	2826.3600	42.80	-46.83	28.60	-70.69	-13.00	57.69	145	189	Vertical
4	3532.9500	41.90	-46.47	29.55	-70.28	-13.00	57.28	261	296	Vertical
5	4239.5400	40.91	-45.89	31.18	-69.06	-13.00	56.06	136	360	Vertical
6	4946.1300	41.46	-45.69	32.73	-66.76	-13.00	53.76	251	135	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:

$AF = \text{Antenna Factor (dB/m)}$

$\text{Factor} = \text{Cable Factor (dB)} - \text{Preamplifier (dB)}$

$\text{Level} = \text{Reading Level} + AF + \text{Factor} - 95.26$

$\text{Margin} = \text{Limit} - \text{Level}$



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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	0.60	0.000848	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-0.70	-0.000989	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-1.00	-0.001413	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-0.70	-0.000989	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-0.40	-0.000565	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	0.30	0.000424	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	0.30	0.000424	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	0.40	0.000565	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	2.20	0.003110	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-0.60	-0.000848	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-0.40	-0.000565	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-0.30	-0.000424	PASS

---End of Attachment---



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