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Appendix B.9

LTE Band 17



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Effective (Isotropic) Radiated Power Output Data

Test Result

ANT41

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	23.39	14.51	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.38	14.50	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.33	14.45	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.43	13.55	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.50	14.62	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.53	14.65	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.34	14.46	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.42	13.54	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.55	14.67	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.50	14.62	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.31	14.43	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.43	13.55	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.72	13.84	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.61	13.73	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	22.61	13.73	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.47	12.59	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.96	14.08	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.77	13.89	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	22.53	13.65	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.51	12.63	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.98	14.10	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	22.71	13.83	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.31	13.43	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.44	12.56	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	21.74	12.86	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	21.34	12.46	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	21.65	12.77	34.77	PASS



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Band17	5MHz	64QAM	23755	25RB#0	20.46	11.58	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	21.77	12.89	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	21.56	12.68	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	21.44	12.56	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	20.42	11.54	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	21.77	12.89	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	21.45	12.57	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	21.58	12.70	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	20.49	11.61	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.31	14.43	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.32	14.44	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.23	14.35	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.43	13.55	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.46	14.58	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.30	14.42	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.24	14.36	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.47	13.59	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.33	14.45	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.33	14.45	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.21	14.33	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.50	13.62	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.59	13.71	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.61	13.73	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.79	13.91	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.42	12.54	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.64	13.76	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.73	13.85	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	22.75	13.87	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.46	12.58	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	22.68	13.80	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	22.57	13.69	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	22.52	13.64	34.77	PASS



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Band17	10MHz	16QAM	23800	50RB#0	21.43	12.55	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	21.51	12.63	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	21.55	12.67	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	21.56	12.68	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	20.46	11.58	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	21.55	12.67	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	21.70	12.82	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	21.36	12.48	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	20.41	11.53	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	21.60	12.72	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	21.68	12.80	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	21.48	12.60	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	20.39	11.51	34.77	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	10MHz	QPSK	23780	50RB#0	4.74	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	4.68	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	4.58	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	5.48	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	5.44	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	5.40	13	PASS
Band17	10MHz	64QAM	23780	50RB#0	6.22	13	PASS
Band17	10MHz	64QAM	23790	50RB#0	6.20	13	PASS
Band17	10MHz	64QAM	23800	50RB#0	6.16	13	PASS



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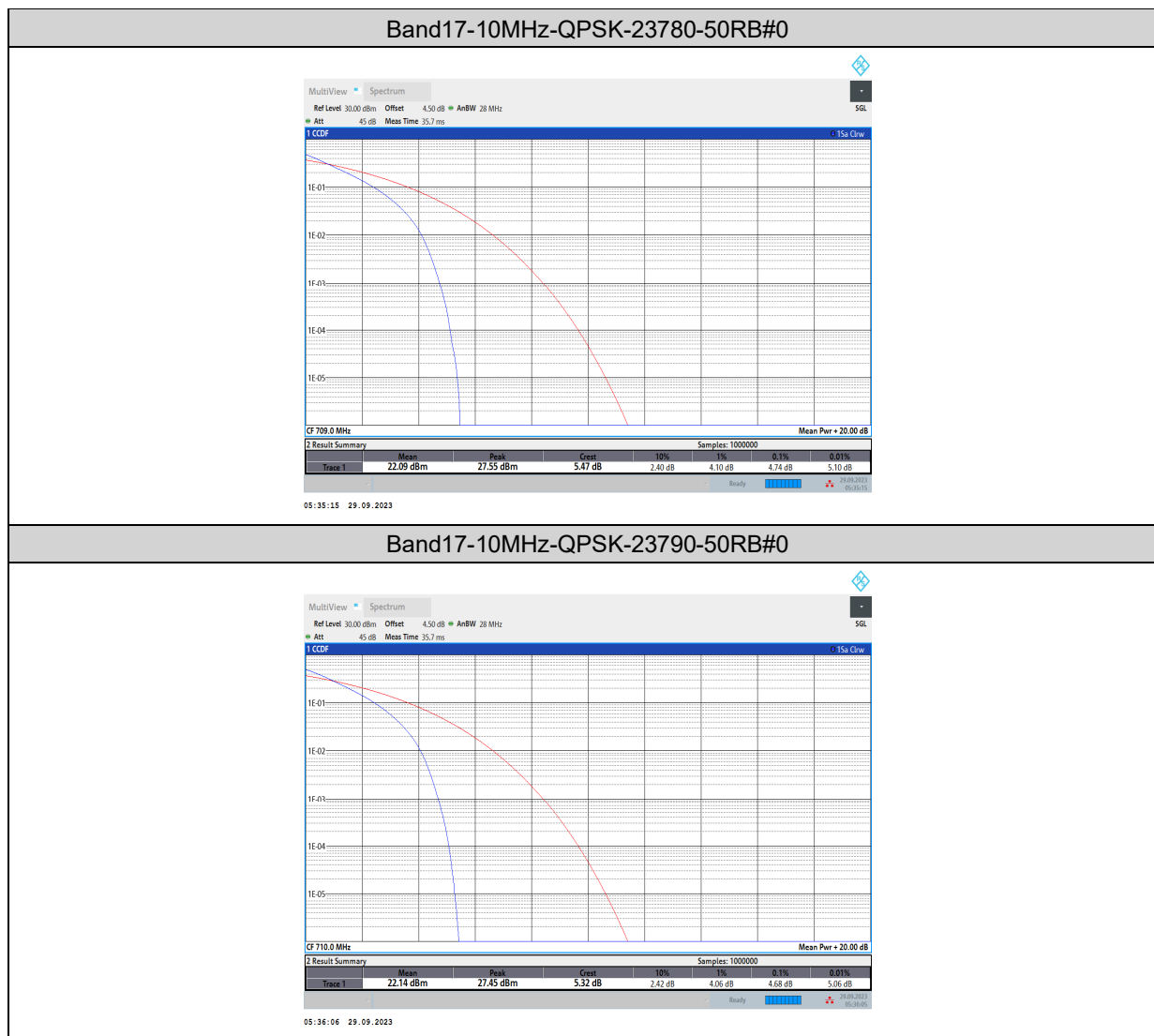
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Test Graphs



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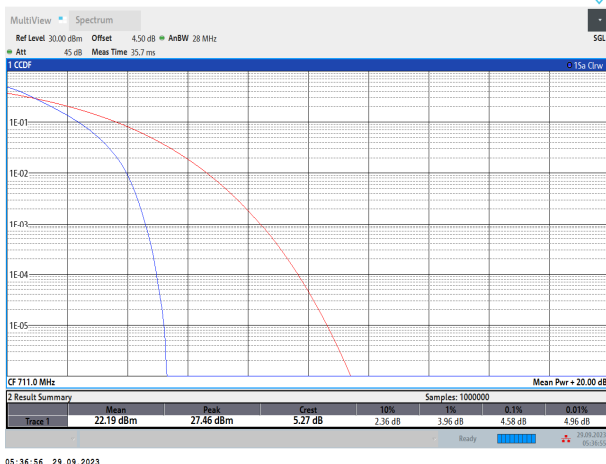
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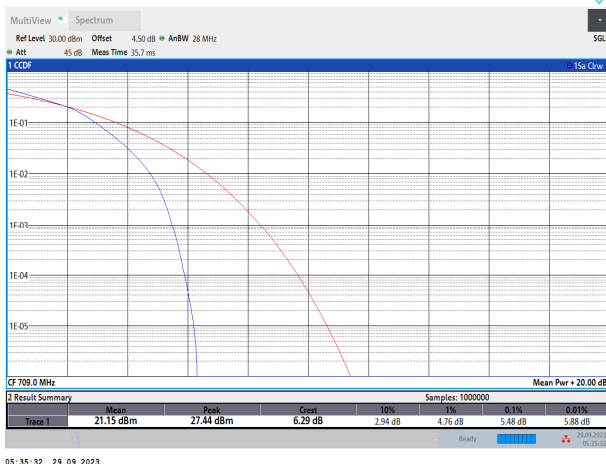
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Band17-10MHz-QPSK-23800-50RB#0



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Band17-10MHz-16QAM-23780-50RB#0



05:35:32 29.09.2023



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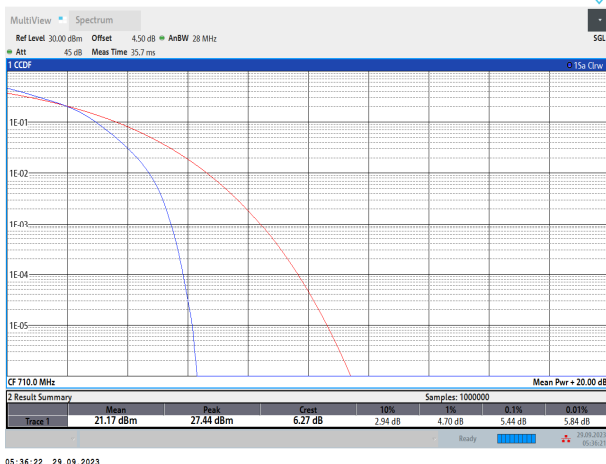
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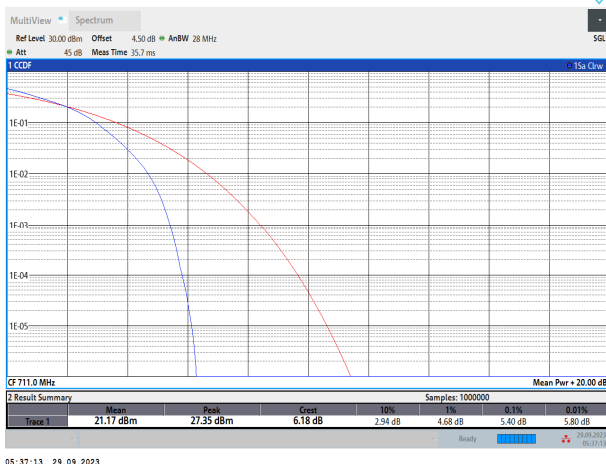
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Band17-10MHz-16QAM-23790-50RB#0



Band17-10MHz-16QAM-23800-50RB#0



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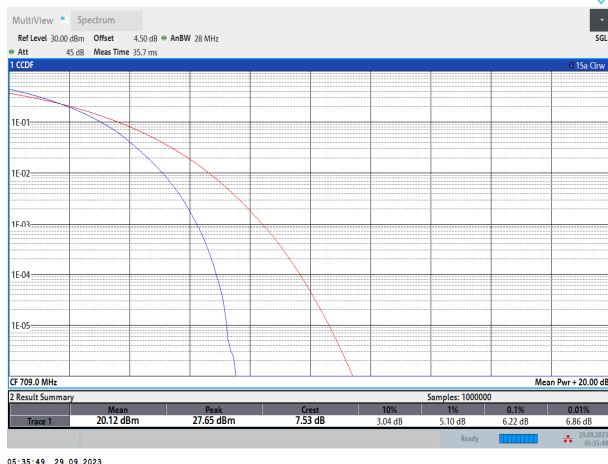
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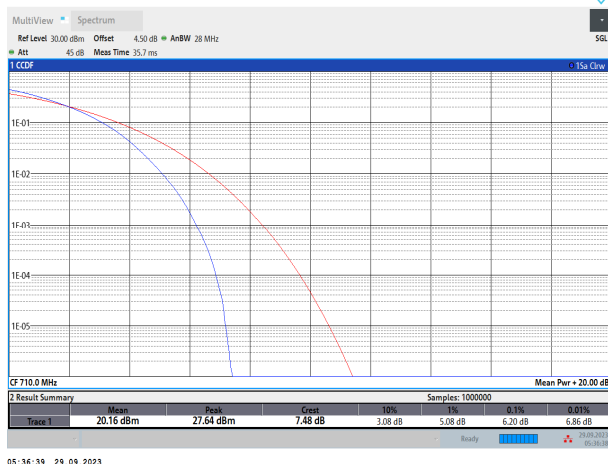
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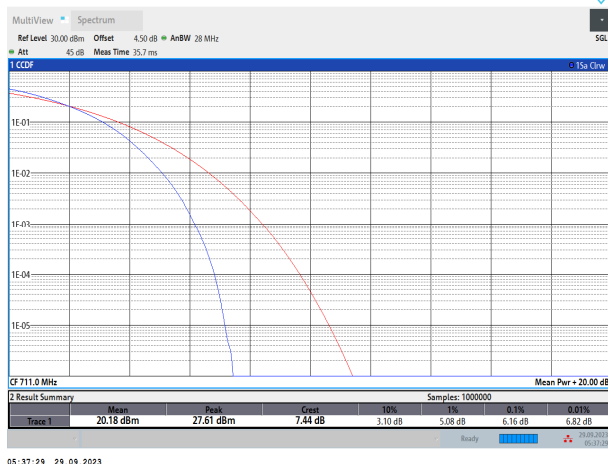
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Band17-10MHz-64QAM-23800-50RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23790	25RB#0	4.472	4.90	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.471	4.91	PASS
Band17	5MHz	64QAM	23790	25RB#0	4.475	4.91	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.932	9.67	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.916	9.63	PASS
Band17	10MHz	64QAM	23790	50RB#0	8.933	9.70	PASS



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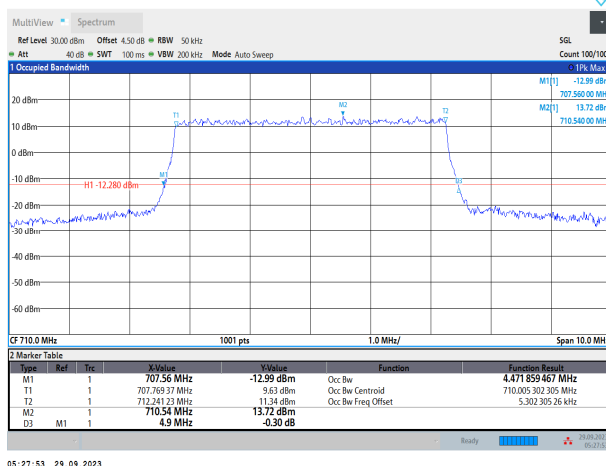
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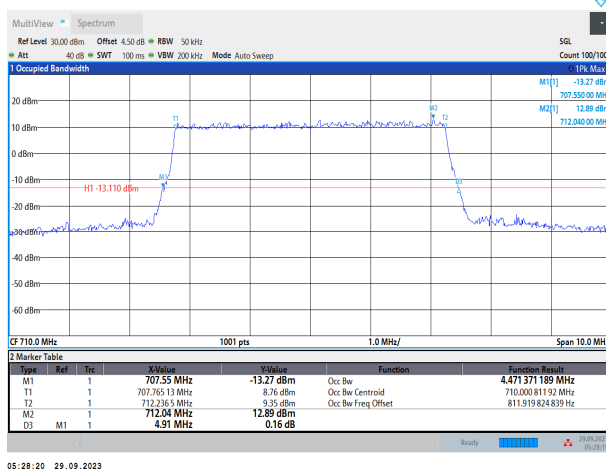
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Test Graphs

Band17-5MHz-QPSK-23790-25RB#0



Band17-5MHz-16QAM-23790-25RB#0



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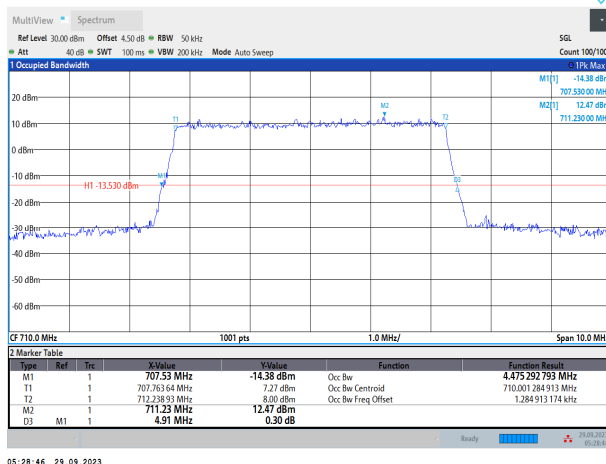
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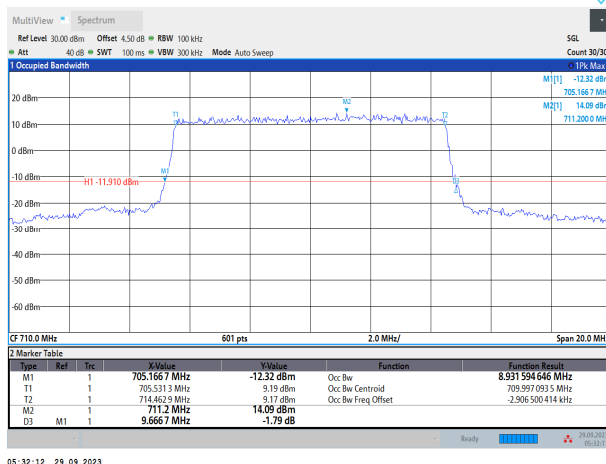
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Band17-5MHz-64QAM-23790-25RB#0



Band17-10MHz-QPSK-23790-50RB#0



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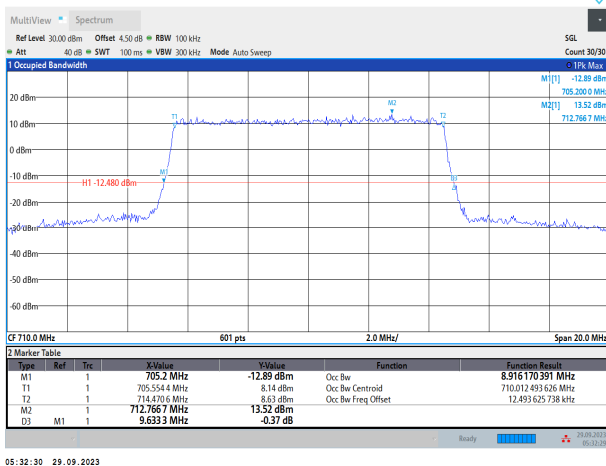
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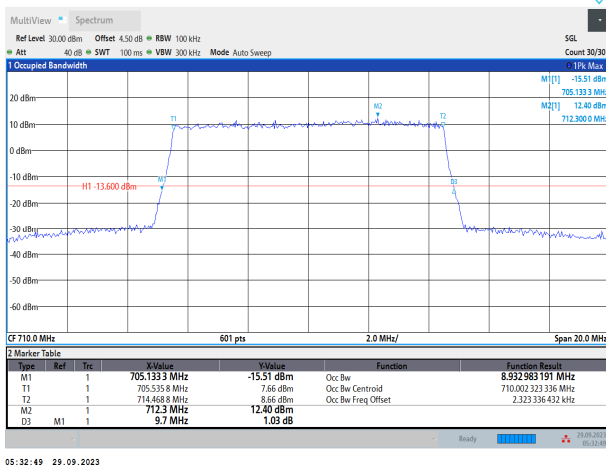
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Band17-10MHz-16QAM-23790-50RB#0



Band17-10MHz-64QAM-23790-50RB#0



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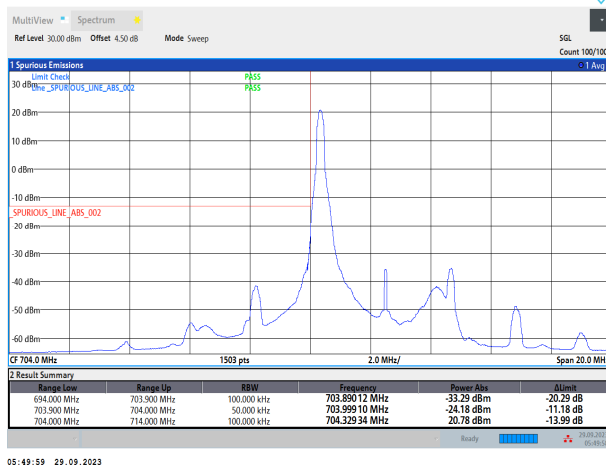
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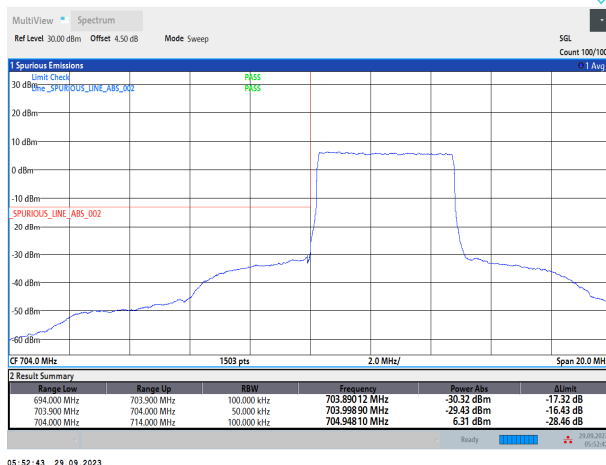
Band Edge

Test Graphs

Band17-5MHz-QPSK-23755-1RB#0



Band17-5MHz-QPSK-23755-25RB#0



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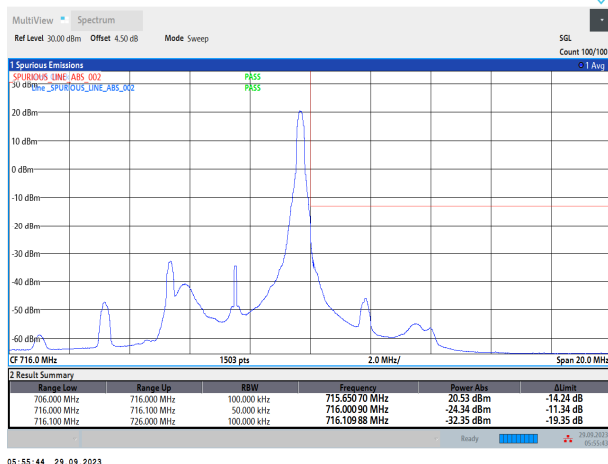
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Band17-5MHz-QPSK-23825-1RB#24



Band17-5MHz-QPSK-23825-25RB#0



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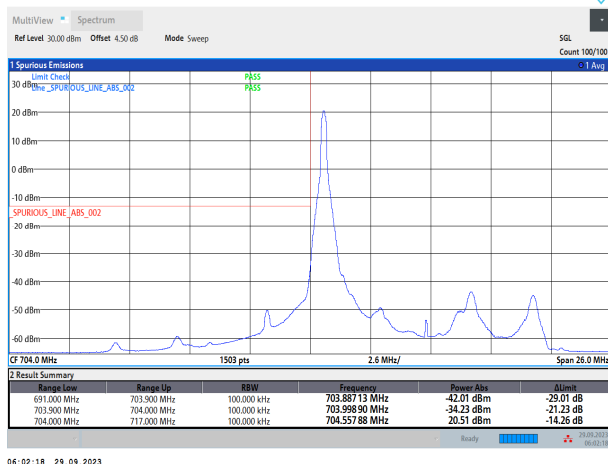
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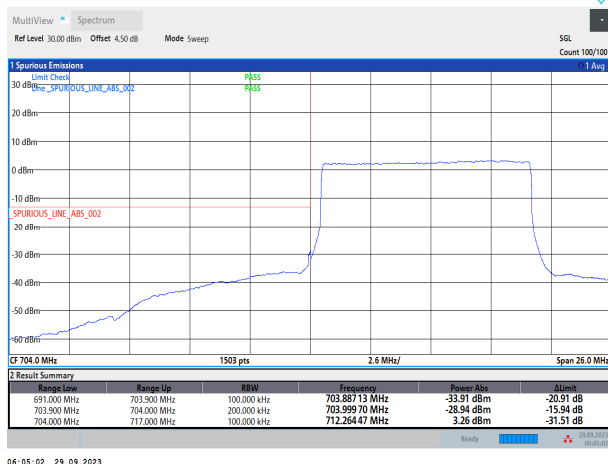
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Band17-10MHz-QPSK-23780-1RB#0



Band17-10MHz-QPSK-23780-50RB#0



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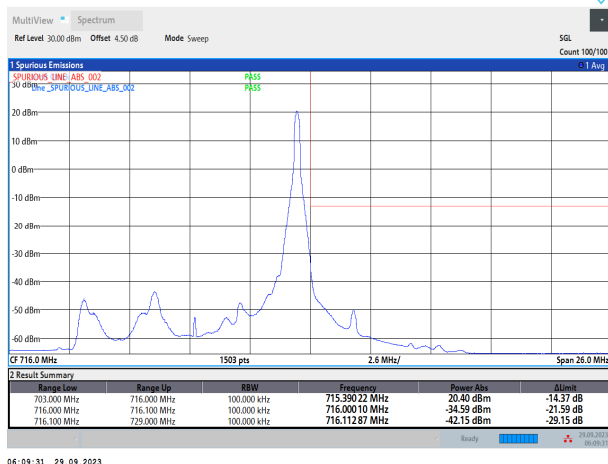
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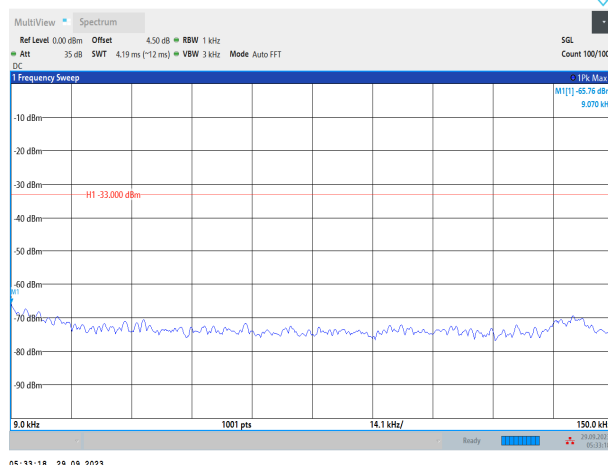
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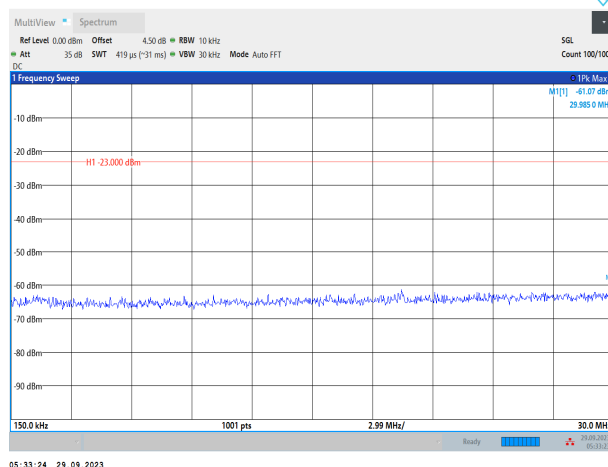
Conducted Spurious Emission

Test Graphs

Band17-10MHz-QPSK-23780-1RB#0-Range1:0.009~0.15MHz



Band17-10MHz-QPSK-23780-1RB#0-Range2:0.15~30MHz



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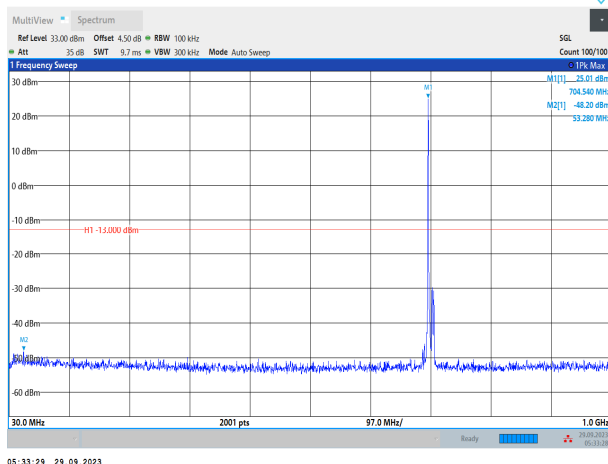
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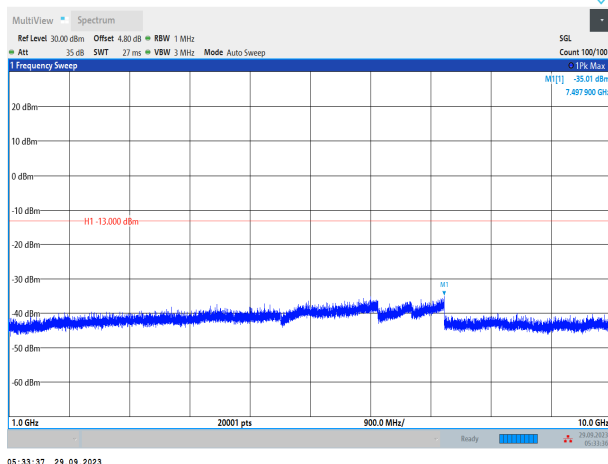
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Band17-10MHz-QPSK-23780-1RB#0-Range3:30~1000MHz



Band17-10MHz-QPSK-23780-1RB#0-Range4:1000~10000MHz



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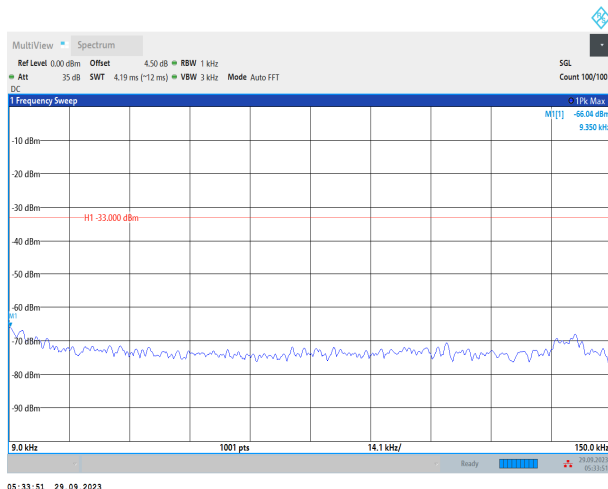
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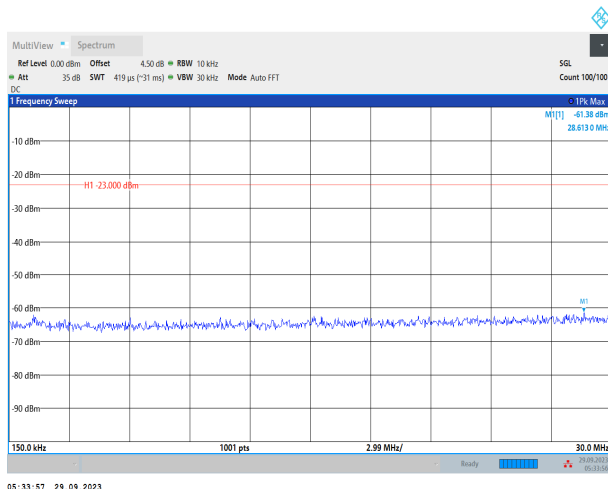
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Band17-10MHz-QPSK-23790-1RB#0-Range1:0.009~0.15MHz



Band17-10MHz-QPSK-23790-1RB#0-Range2:0.15~30MHz



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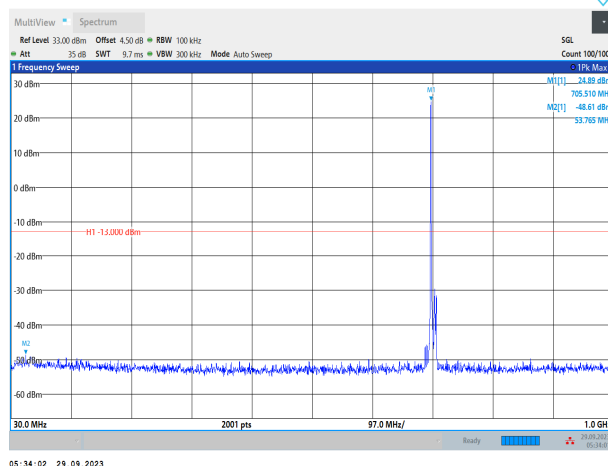
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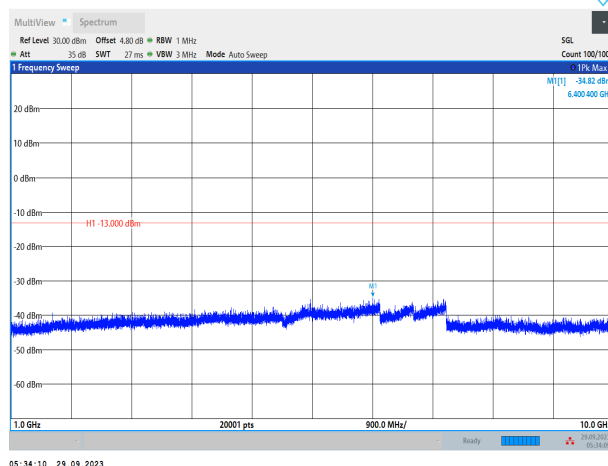
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Band17-10MHz-QPSK-23790-1RB#0-Range3:30~1000MHz



Band17-10MHz-QPSK-23790-1RB#0-Range4:1000~10000MHz



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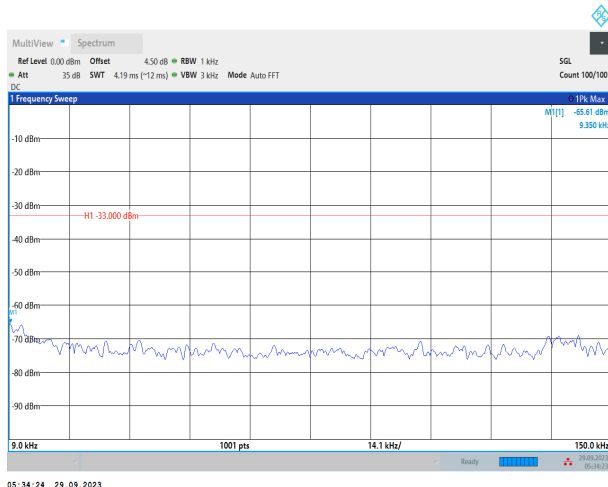
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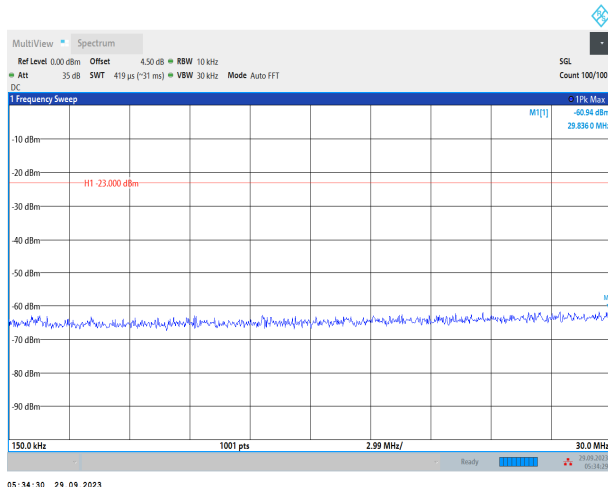
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Band17-10MHz-QPSK-23800-1RB#0-Range1:0.009~0.15MHz



Band17-10MHz-QPSK-23800-1RB#0-Range2:0.15~30MHz



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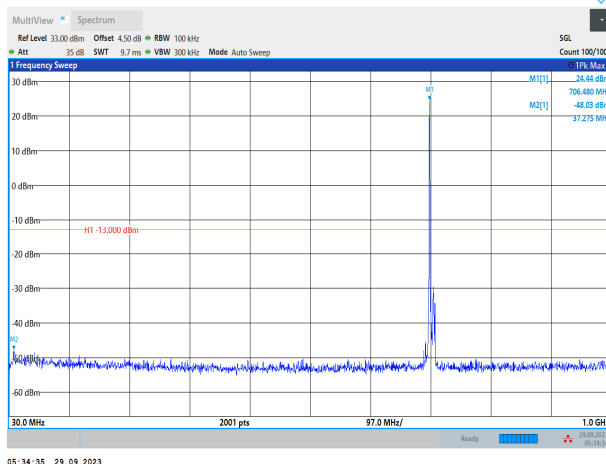
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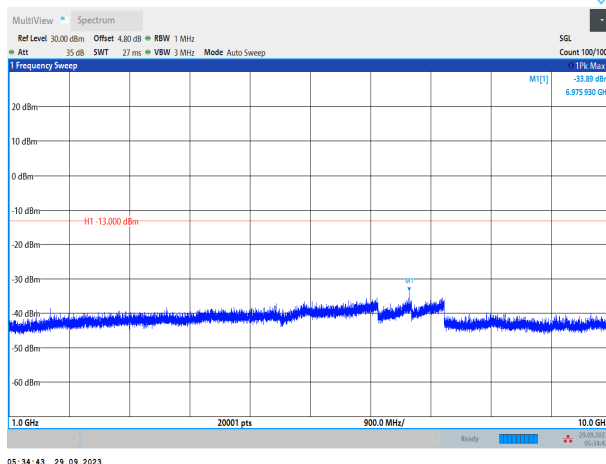
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Band17-10MHz-QPSK-23800-1RB#0-Range3:30~1000MHz



Band17-10MHz-QPSK-23800-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band17_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1409.1800	44.09	-48.03	25.10	-74.10	-13.00	61.10	Horizontal
2	2113.7700	41.71	-47.71	26.22	-75.04	-13.00	62.04	Horizontal
3	2818.3600	42.45	-46.85	27.94	-71.73	-13.00	58.73	Horizontal
4	3522.9500	41.93	-46.49	28.62	-71.20	-13.00	58.20	Horizontal
5	4227.5400	40.16	-45.91	29.65	-71.36	-13.00	58.36	Horizontal
6	4932.1300	40.82	-45.65	31.25	-68.84	-13.00	55.84	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1409.1800	43.94	-48.03	25.10	-74.25	-13.00	61.25	Vertical
2	2113.7700	42.20	-47.71	26.22	-74.55	-13.00	61.55	Vertical
3	2818.3600	42.31	-46.85	27.94	-71.87	-13.00	58.87	Vertical
4	3522.9500	42.69	-46.49	28.62	-70.44	-13.00	57.44	Vertical
5	4227.5400	39.89	-45.91	29.65	-71.63	-13.00	58.63	Vertical
6	4932.1300	40.52	-45.65	31.25	-69.14	-13.00	56.14	Vertical



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Test Band = LTE Band 17_ TM1

Test Channel = Mid

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1411.1800	44.56	-48.04	25.11	-73.63	-13.00	60.63	Horizontal
2	2116.7700	42.68	-47.70	26.23	-74.06	-13.00	61.06	Horizontal
3	2822.3600	41.83	-46.84	27.95	-72.32	-13.00	59.32	Horizontal
4	3527.9500	41.47	-46.48	28.63	-71.65	-13.00	58.65	Horizontal
5	4233.5400	39.99	-45.90	29.66	-71.51	-13.00	58.51	Horizontal
6	4939.1300	40.39	-45.67	31.27	-69.27	-13.00	56.27	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1411.1800	43.75	-48.04	25.11	-74.44	-13.00	61.44	Vertical
2	2116.7700	42.54	-47.70	26.23	-74.20	-13.00	61.20	Vertical
3	2822.3600	42.29	-46.84	27.95	-71.86	-13.00	58.86	Vertical
4	3527.9500	42.14	-46.48	28.63	-70.98	-13.00	57.98	Vertical
5	4233.5400	40.75	-45.90	29.66	-70.75	-13.00	57.75	Vertical
6	4939.1300	40.70	-45.67	31.27	-68.96	-13.00	55.96	Vertical



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Test Band = LTE Band 17_ TM1
Test Channel = High
Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.1800	43.46	-48.04	25.11	-74.74	-13.00	61.74	Horizontal
2	2119.7700	42.62	-47.70	26.24	-74.11	-13.00	61.11	Horizontal
3	2826.3600	41.70	-46.83	27.95	-72.43	-13.00	59.43	Horizontal
4	3532.9500	41.90	-46.47	28.63	-71.20	-13.00	58.20	Horizontal
5	4239.5400	39.74	-45.89	29.68	-71.73	-13.00	58.73	Horizontal
6	4946.1300	40.46	-45.69	31.28	-69.20	-13.00	56.20	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.1800	43.58	-48.04	25.11	-74.62	-13.00	61.62	Vertical
2	2119.7700	43.00	-47.70	26.24	-73.73	-13.00	60.73	Vertical
3	2826.3600	42.29	-46.83	27.95	-71.84	-13.00	58.84	Vertical
4	3532.9500	41.86	-46.47	28.63	-71.24	-13.00	58.24	Vertical
5	4239.5400	40.65	-45.89	29.68	-70.82	-13.00	57.82	Vertical
6	4946.1300	40.75	-45.69	31.28	-68.91	-13.00	55.91	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) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	-0.10	-0.000141	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	0.00	0.000000	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	-0.90	-0.001268	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	-0.10	-0.000141	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	-1.10	-0.001549	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	0.40	0.000563	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	-1.10	-0.001549	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	-0.70	-0.000986	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	-1.20	-0.001690	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	-1.60	-0.002254	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	-0.40	-0.000563	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	0.40	0.000563	PASS

---End of Attachment---



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