

# Appendix B.7

## LTE Band 17



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	22.84	19.87	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.11	20.14	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	22.89	19.92	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	21.95	18.98	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	22.94	19.97	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.19	20.22	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	22.96	19.99	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.04	19.07	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	22.92	19.95	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.27	20.30	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	22.92	19.95	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.12	19.15	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.09	19.12	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.34	19.37	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	22.08	19.11	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	20.96	17.99	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.28	19.31	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.48	19.51	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	22.26	19.29	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.05	18.08	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.14	19.17	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	22.39	19.42	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.13	19.16	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.10	18.13	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	22.96	19.99	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.13	20.16	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.06	20.09	34.77	PASS



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Band17	10MHz	QPSK	23780	50RB#0	22.04	19.07	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.00	20.03	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.10	20.13	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.01	20.04	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.08	19.11	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	22.98	20.01	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.13	20.16	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.02	20.05	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.09	19.12	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.26	19.29	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.45	19.48	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.30	19.33	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.00	18.03	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.17	19.20	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.39	19.42	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	22.18	19.21	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.07	18.10	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	22.23	19.26	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	22.36	19.39	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	22.23	19.26	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.08	18.11	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	5.46	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.46	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.36	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.08	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.08	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.02	13	PASS

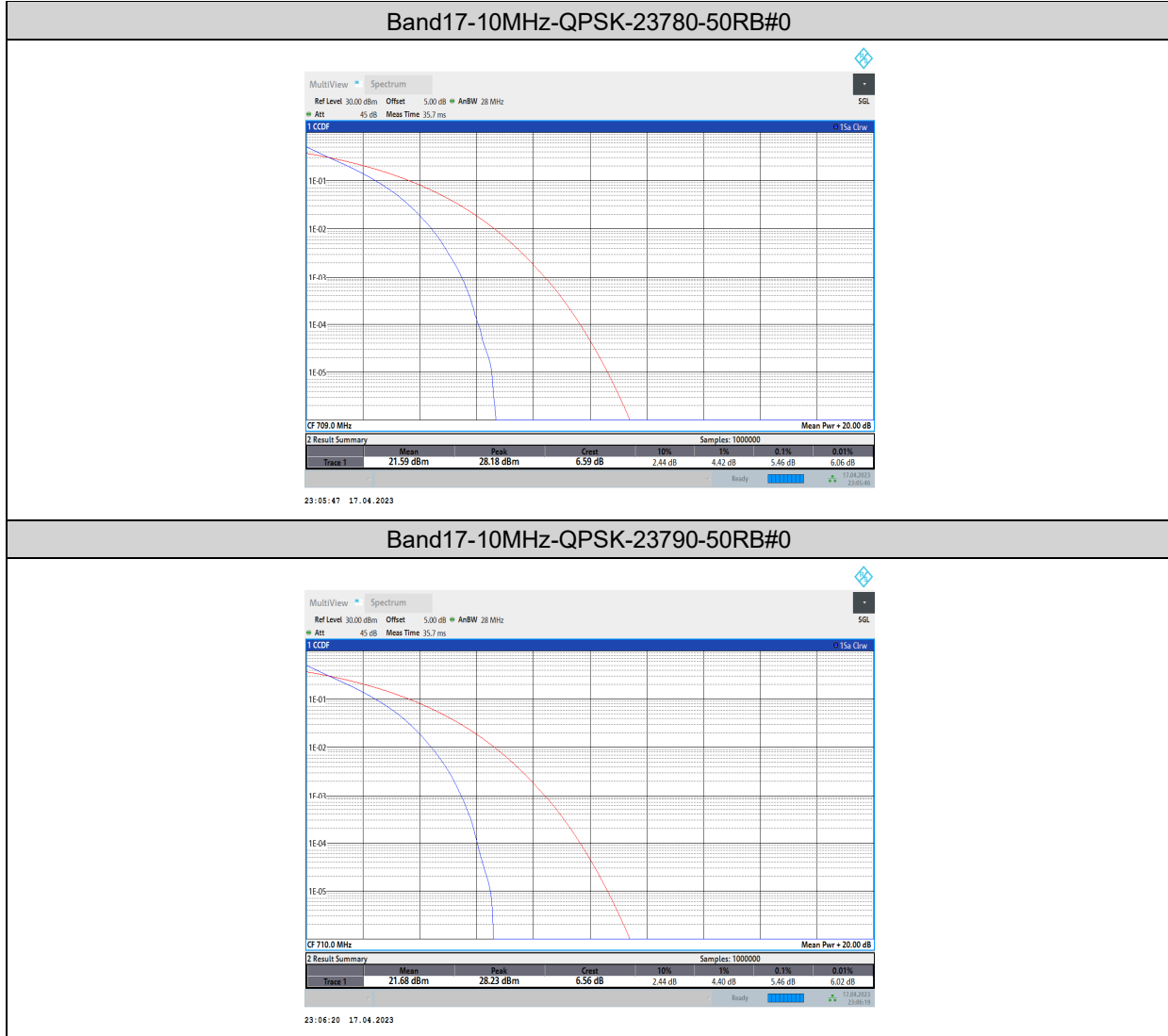


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Test Graphs

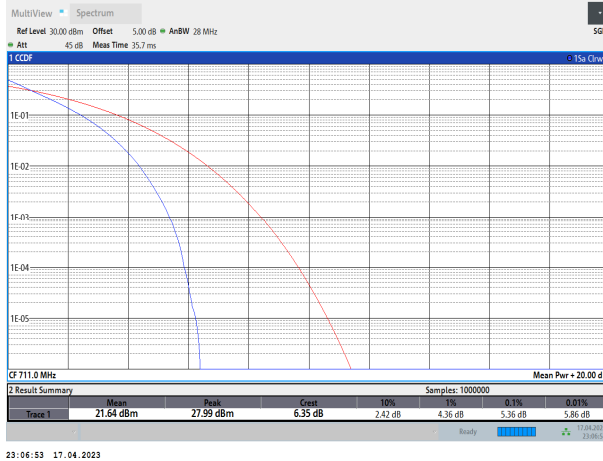


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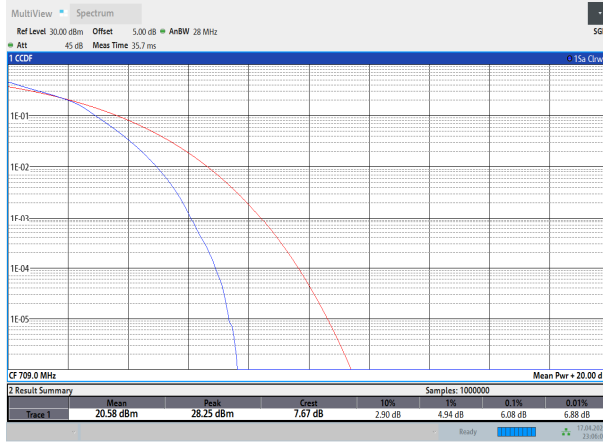
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Band17-10MHz-QPSK-23800-50RB#0



23:06:53 17.04.2023

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



23:06:03 17.04.2023



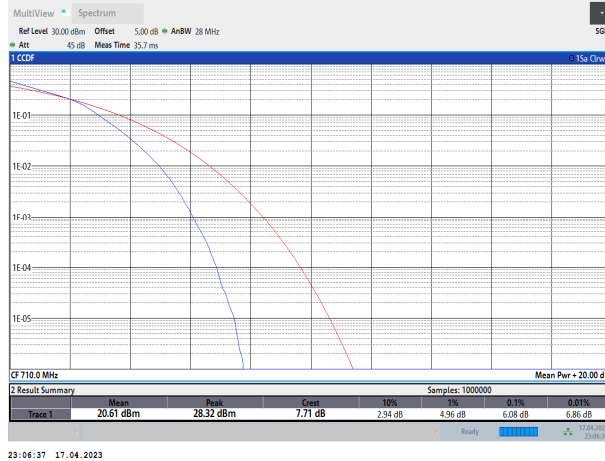
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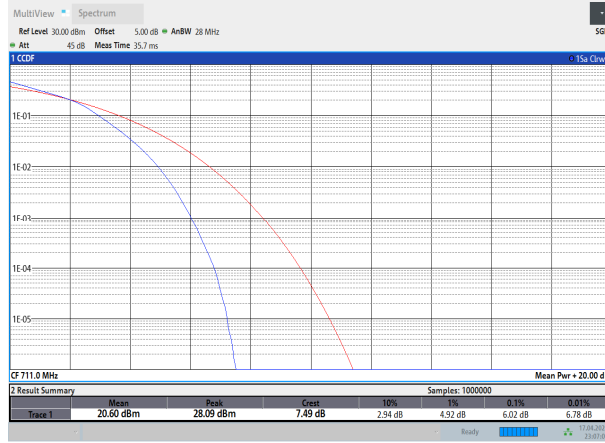


Band17-10MHz-16QAM-23790-50RB#0



23:06:37 17.04.2023

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



23:07:10 17.04.2023



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## Modulation Characteristics

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band17	10MHz	QPSK	23790	50RB#0	PASS	PASS
Band17	10MHz	16QAM	23790	50RB#0	PASS	PASS



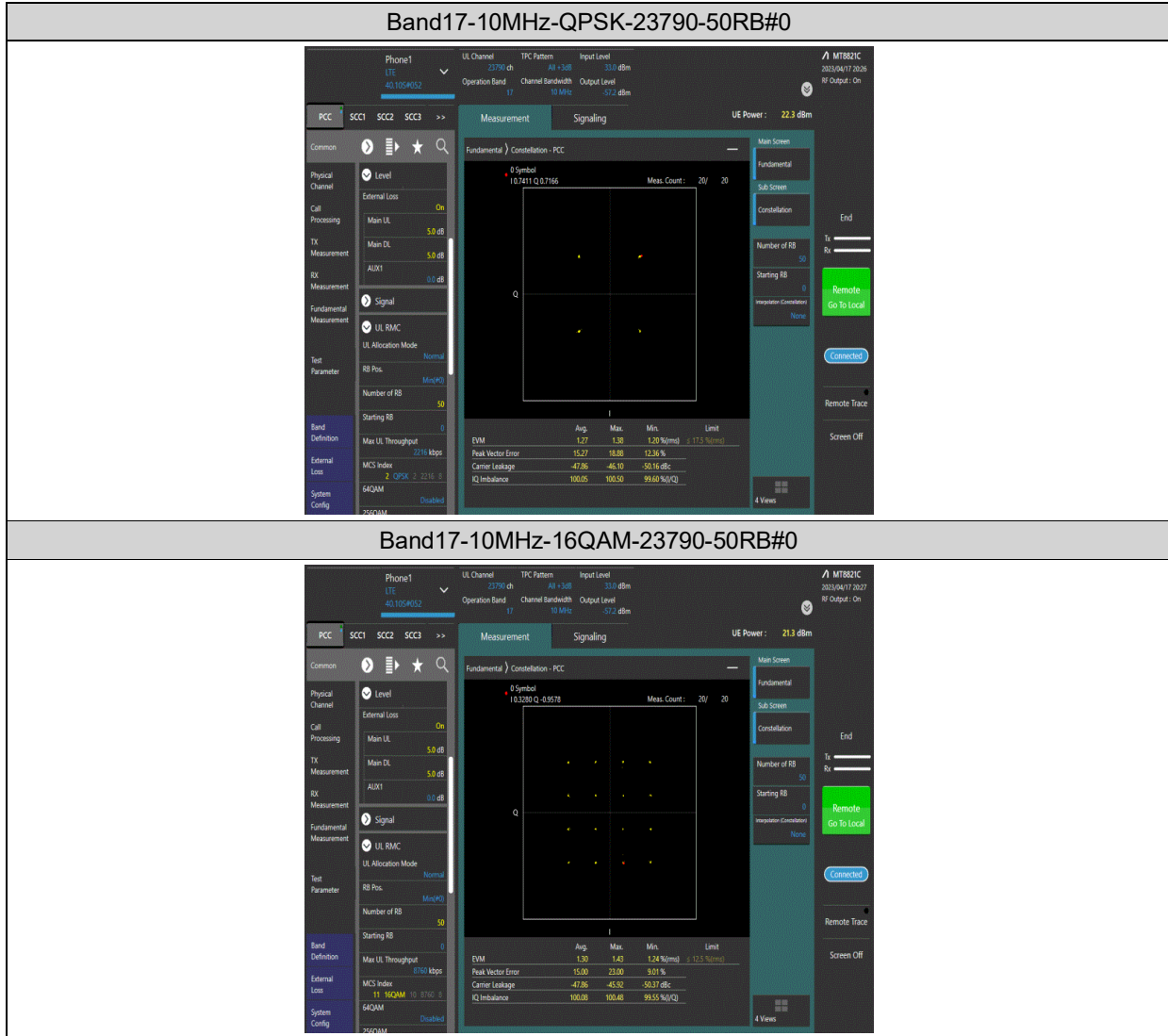
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Test Graphs



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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	23755	25RB#0	4.473	4.99	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.473	5.01	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.476	5.02	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.469	5.04	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.467	5.02	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.470	5.04	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.957	9.83	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.936	9.90	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.959	9.83	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.925	9.80	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.930	9.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.929	9.80	PASS



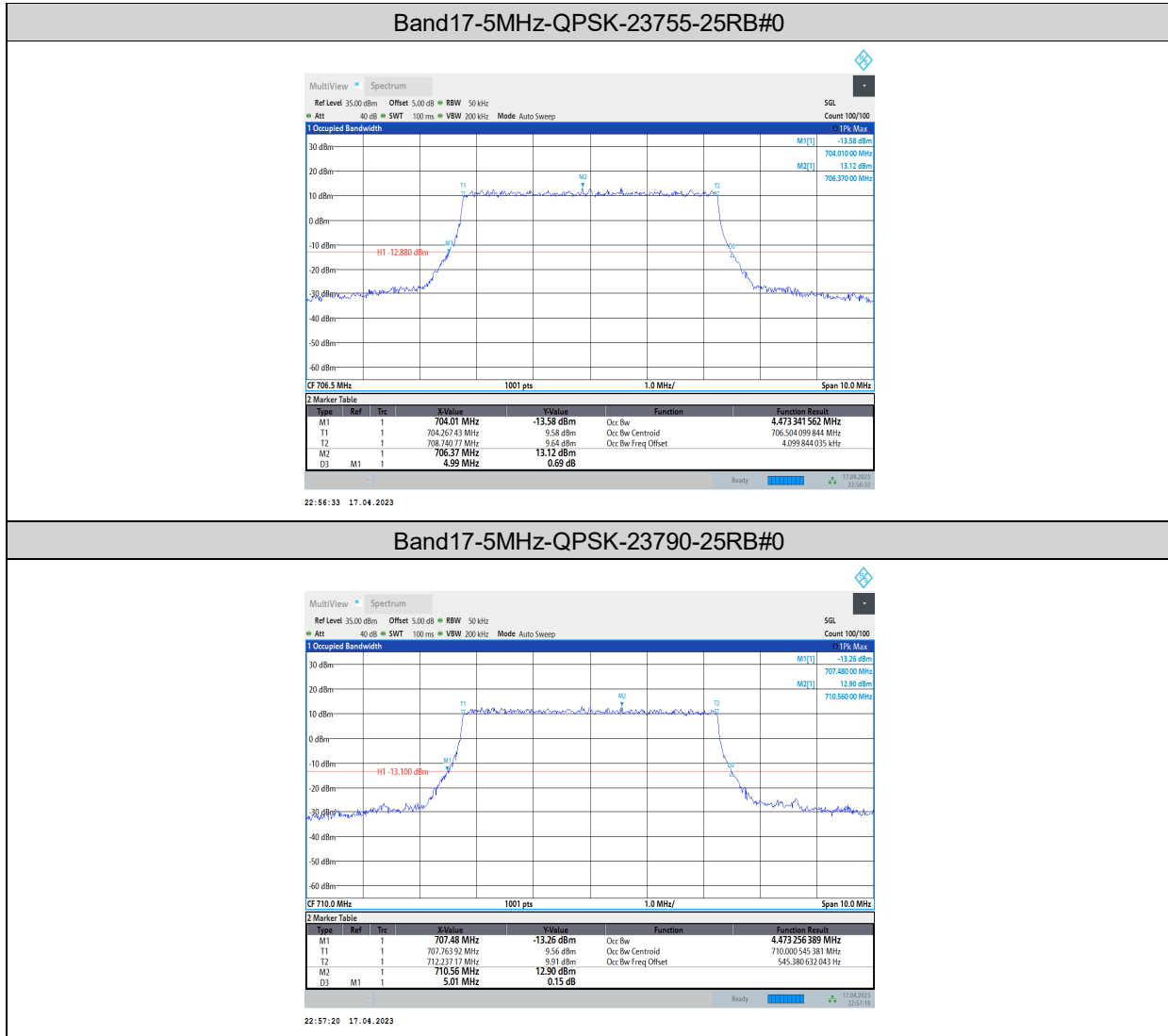
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Test Graphs

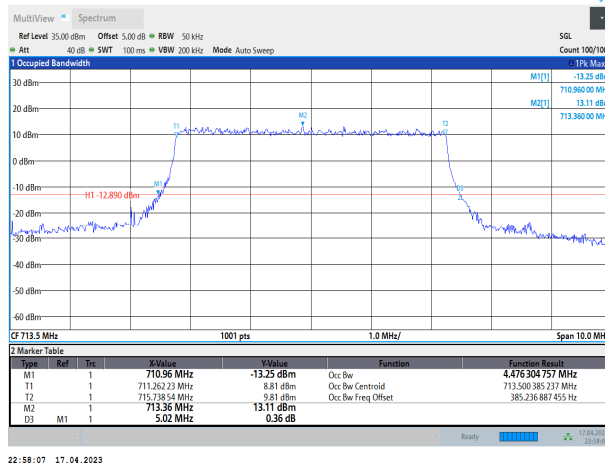


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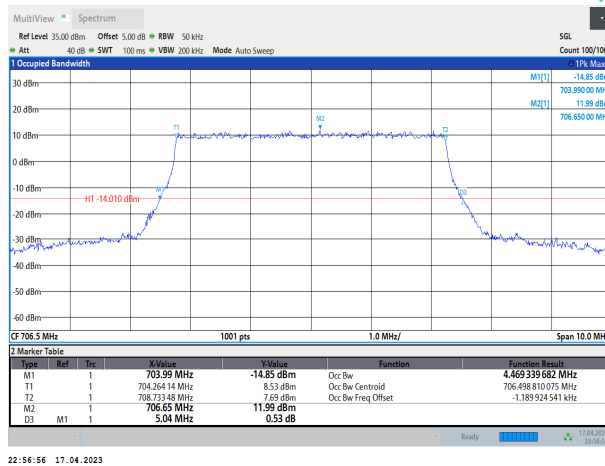
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Band17-5MHz-QPSK-23825-25RB#0



Band17-5MHz-16QAM-23755-25RB#0

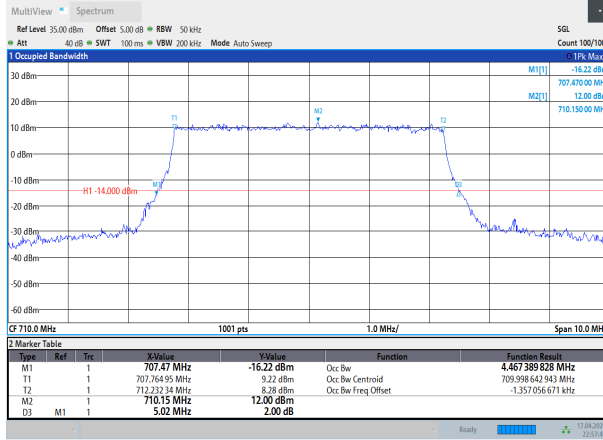


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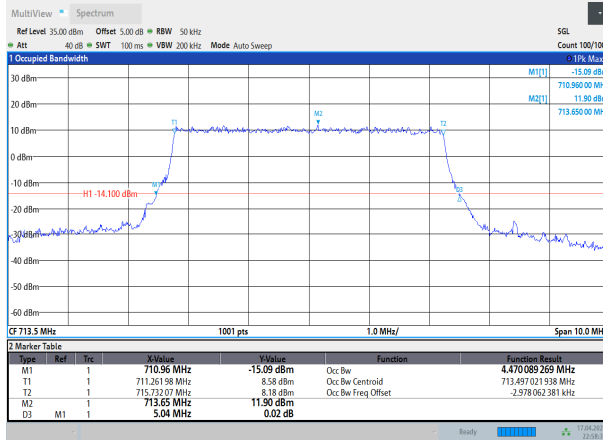
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Band17-5MHz-16QAM-23790-25RB#0



22:57:43 17.04.2023

Band17-5MHz-16QAM-23825-25RB#0



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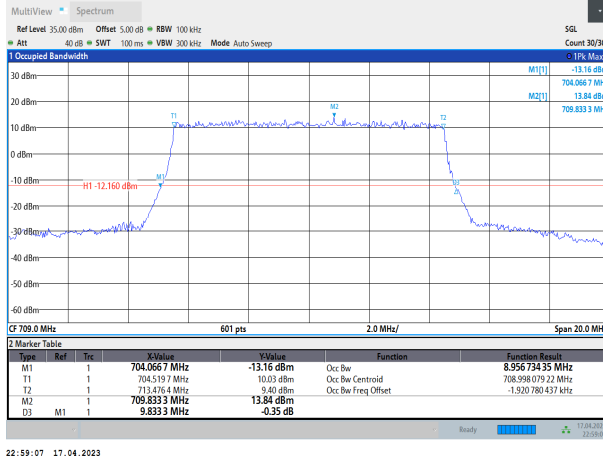


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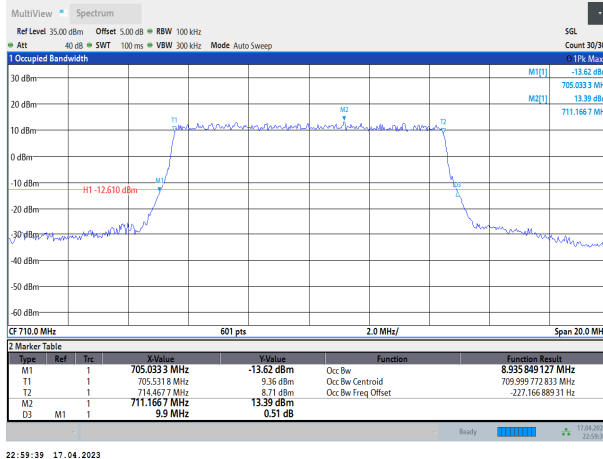
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Band17-10MHz-QPSK-23780-50RB#0



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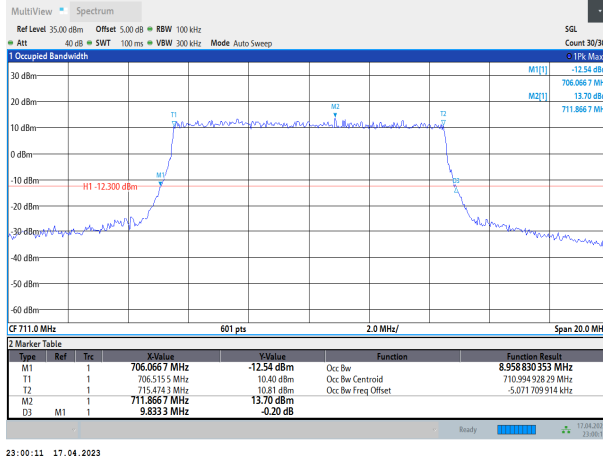
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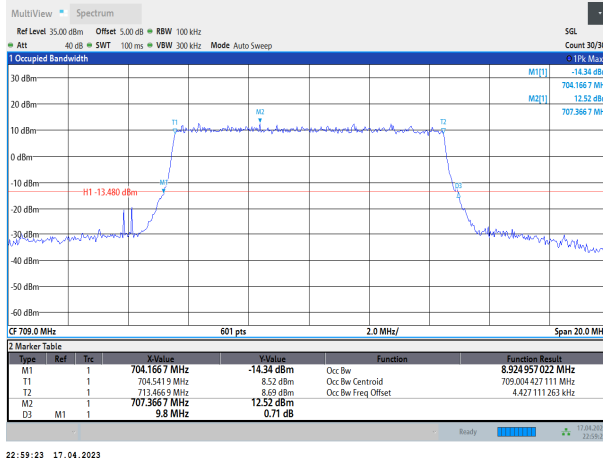
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Band17-10MHz-QPSK-23800-50RB#0



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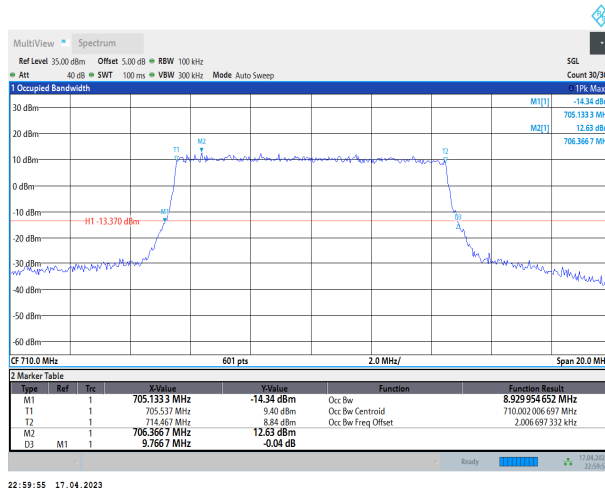
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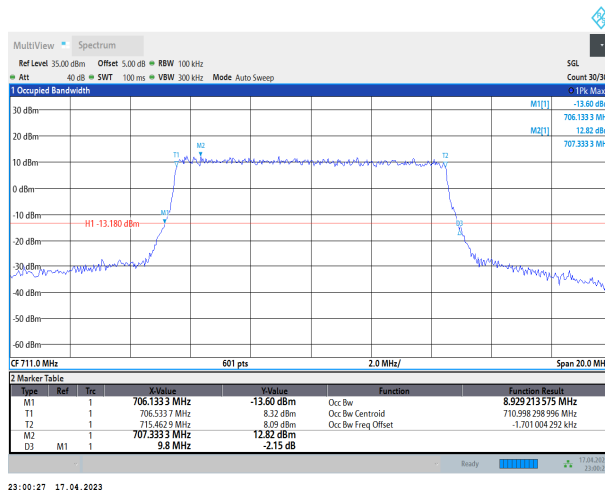
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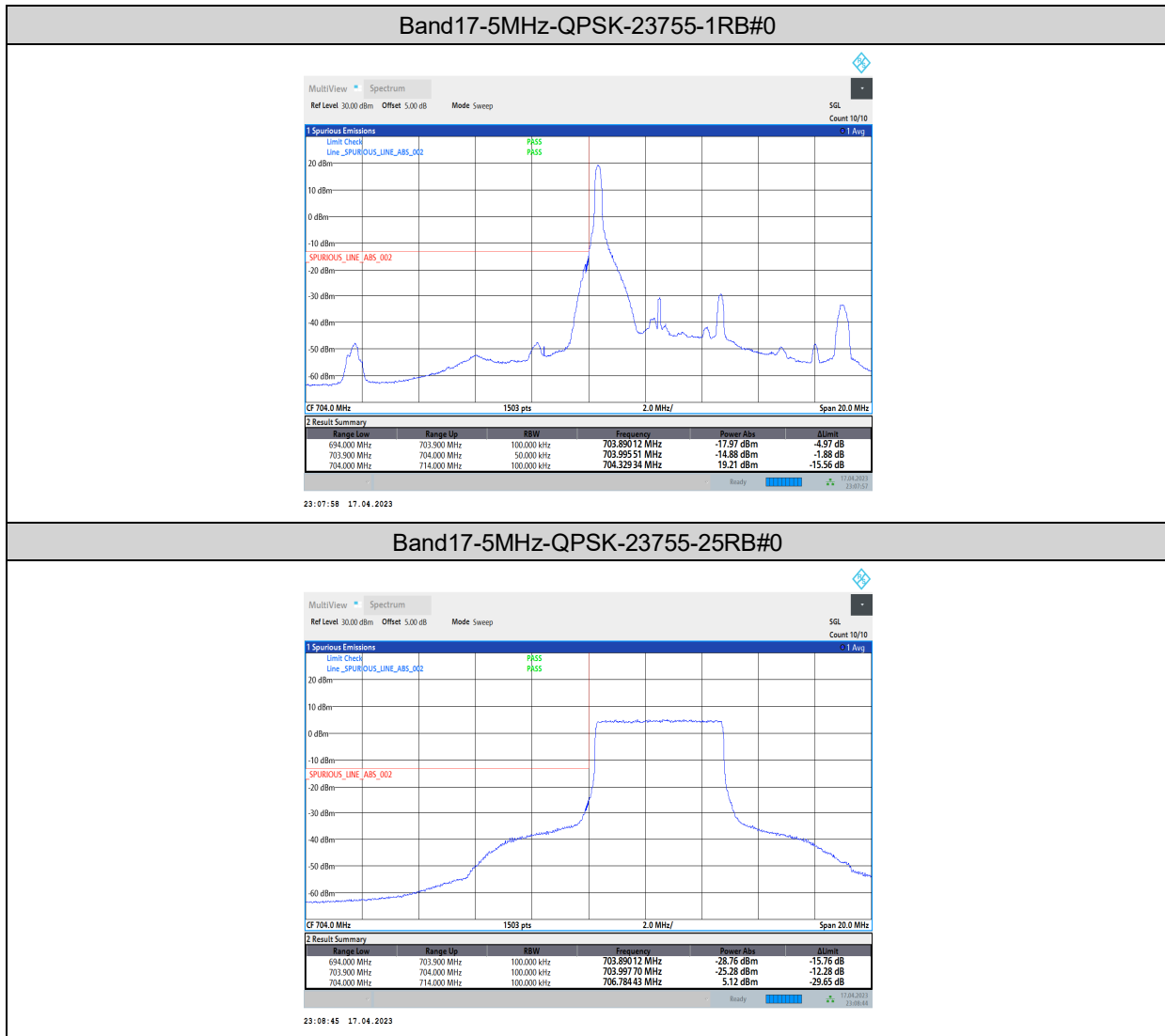
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## Band Edge

## Test Graphs

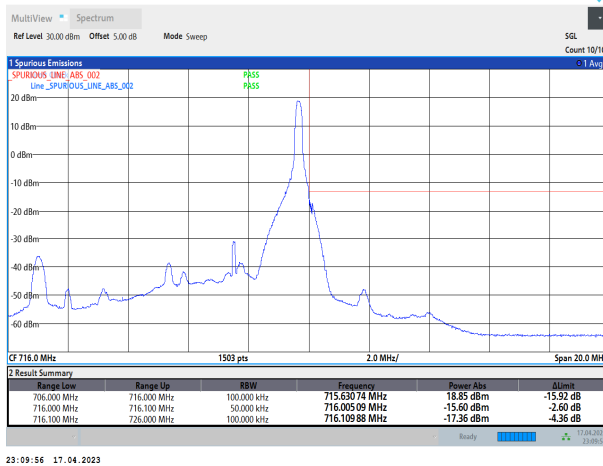


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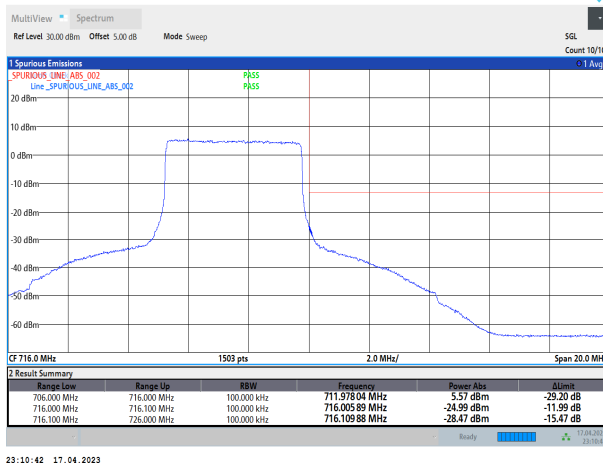
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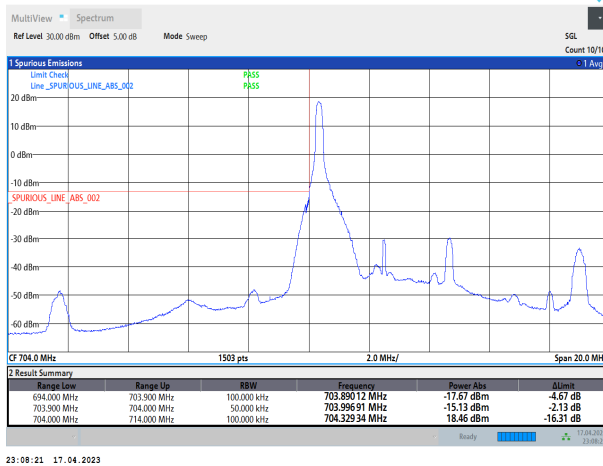


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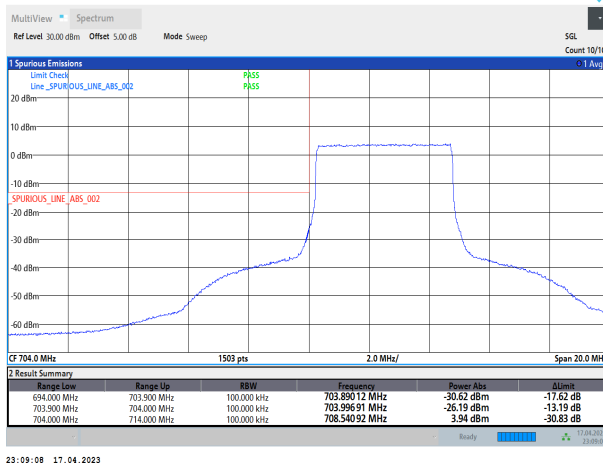
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Band17-5MHz-16QAM-23755-1RB#0



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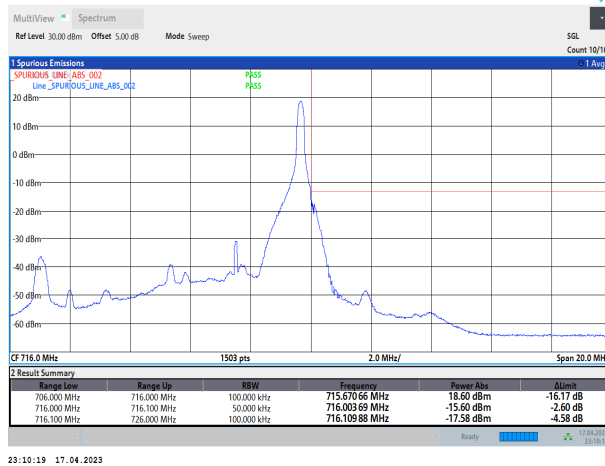


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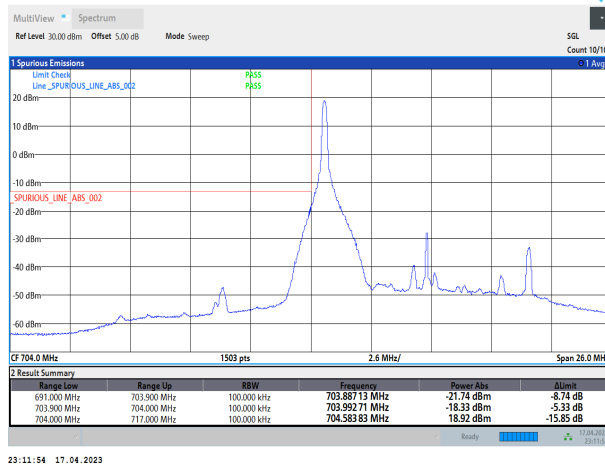


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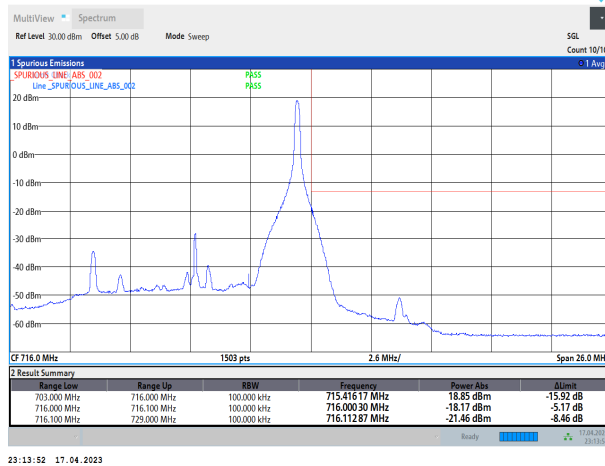


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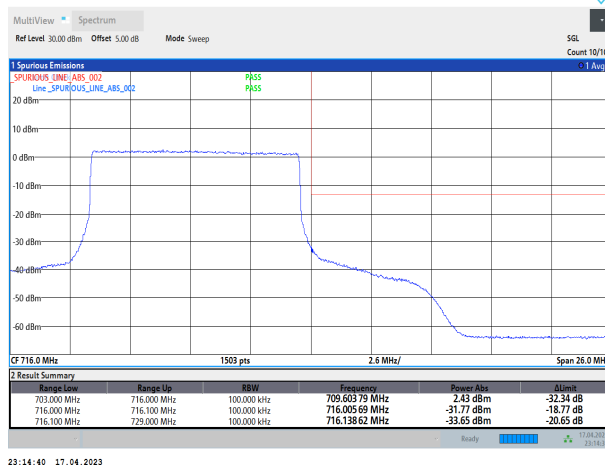
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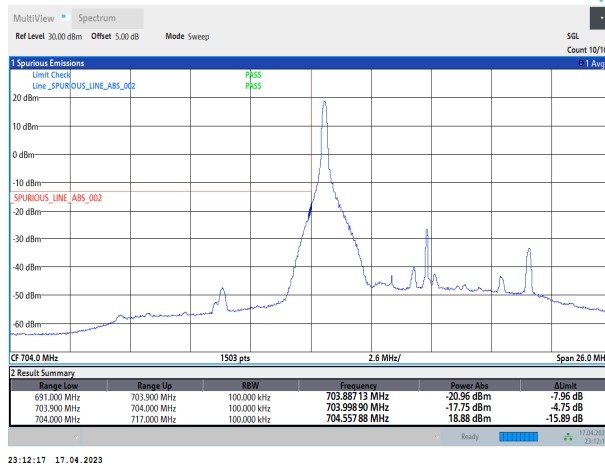
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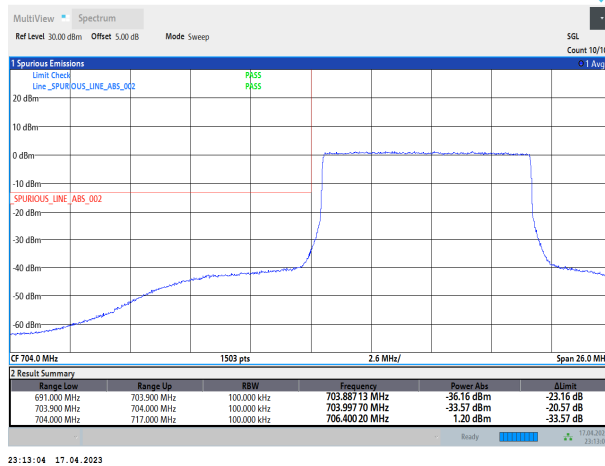
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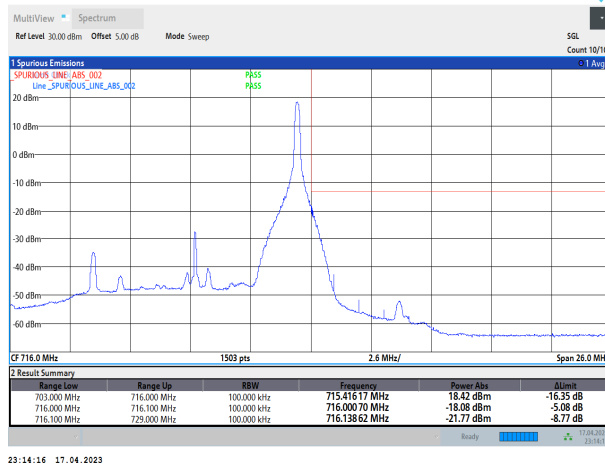


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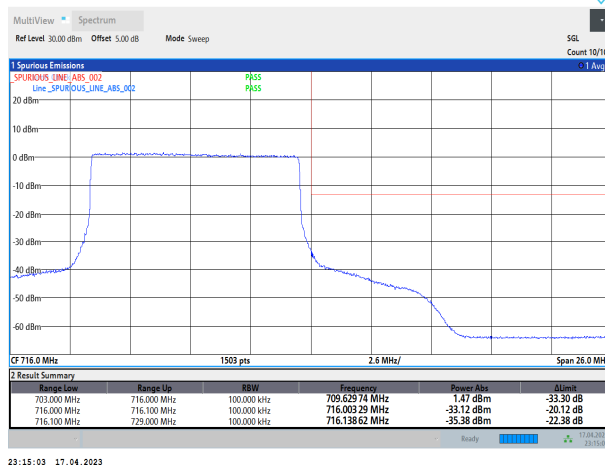
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Band17-10MHz-16QAM-23800-1RB#49



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



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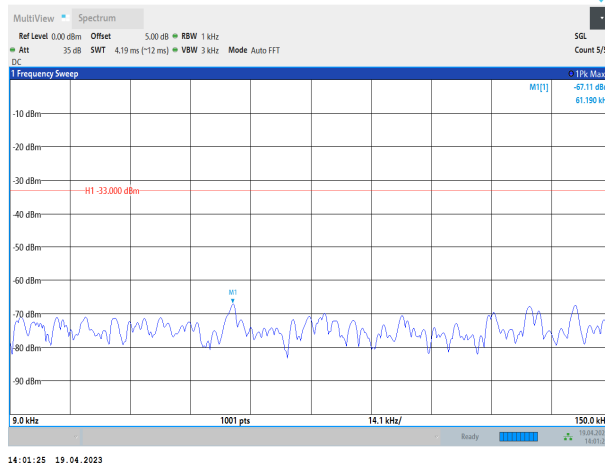
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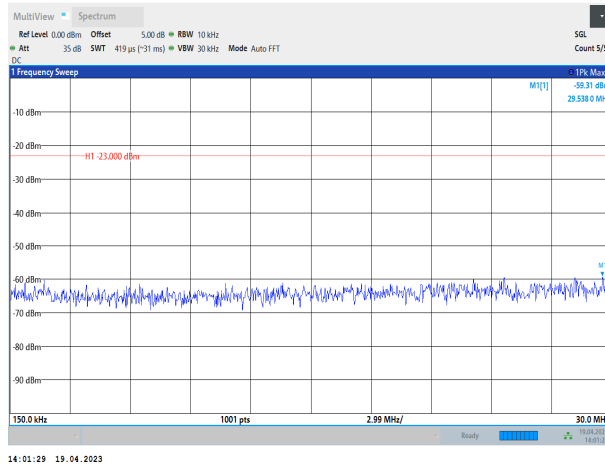
## Conducted Spurious Emission

### Test Graphs

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



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

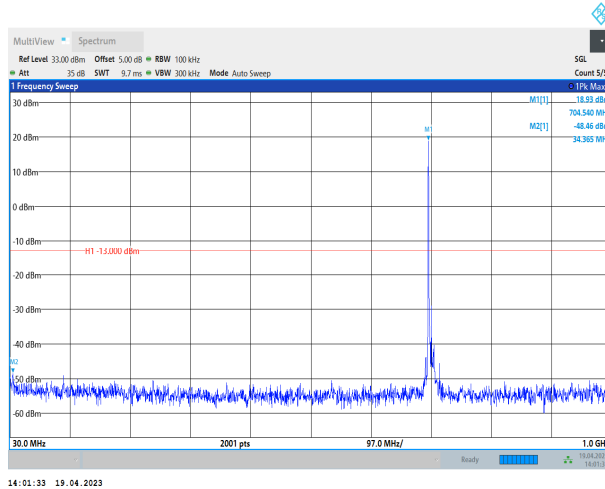


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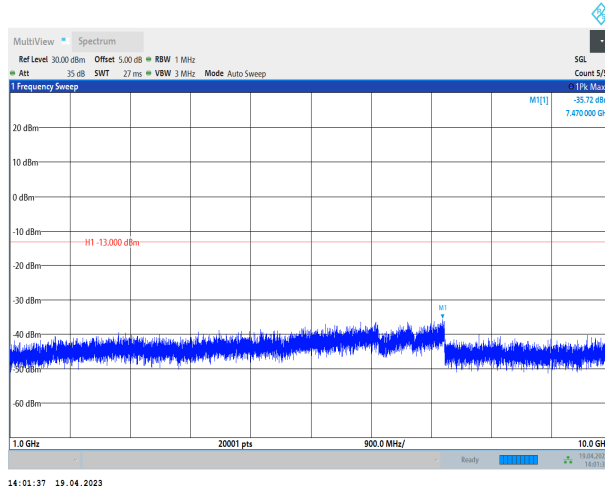
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Band17-10MHz-QPSK-23780-1RB#0-Range3:30~1000MHz



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

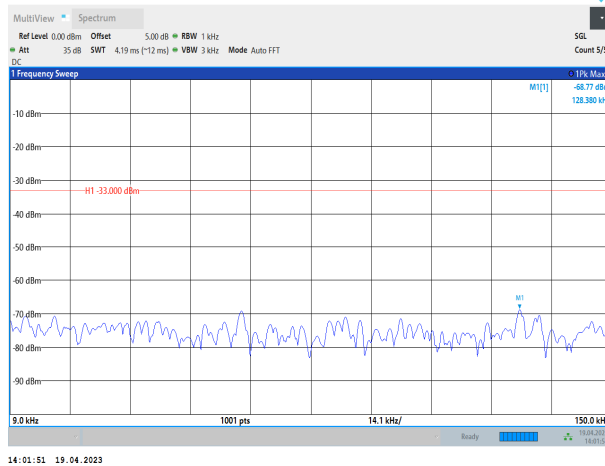


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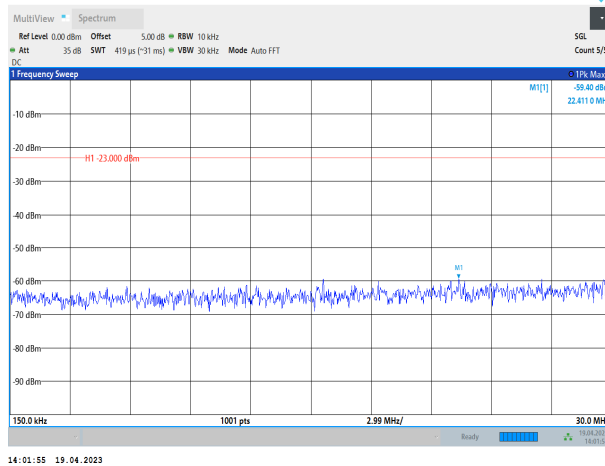
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Band17-10MHz-QPSK-23790-1RB#0-Range1:0.009~0.15MHz



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

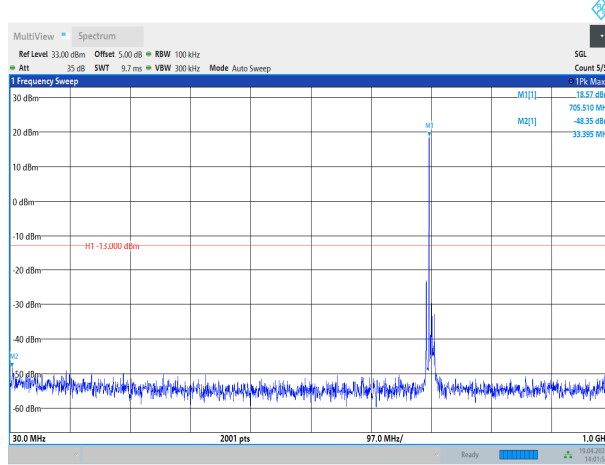


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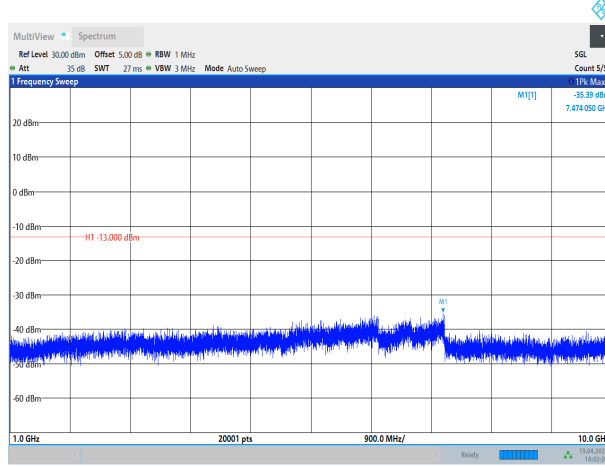
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Band17-10MHz-QPSK-23790-1RB#0-Range3:30~1000MHz



14:01:59 19. 04. 2023

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



14:02:03 19. 04. 2023

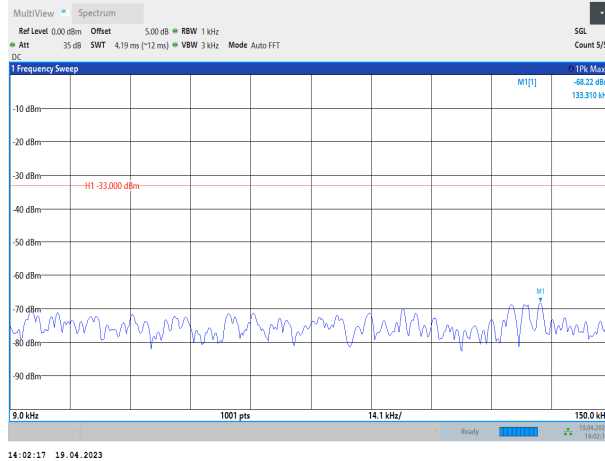


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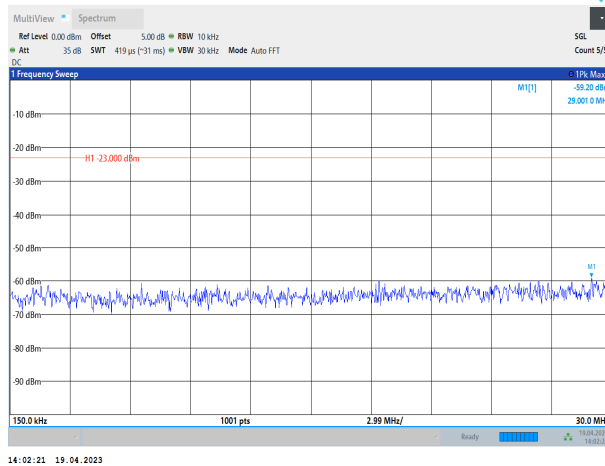
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Band17-10MHz-QPSK-23800-1RB#0-Range1:0.009~0.15MHz



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



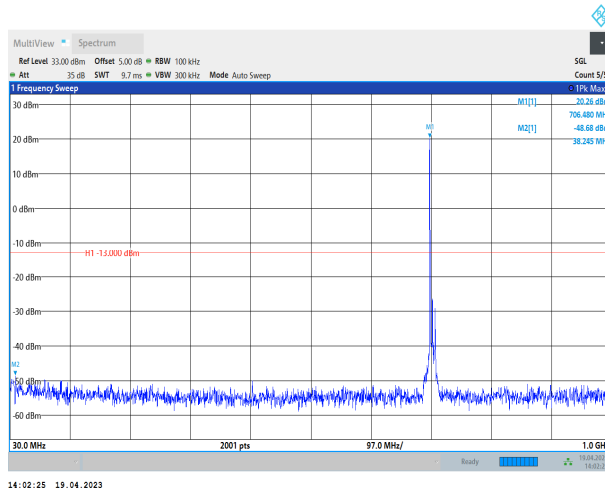
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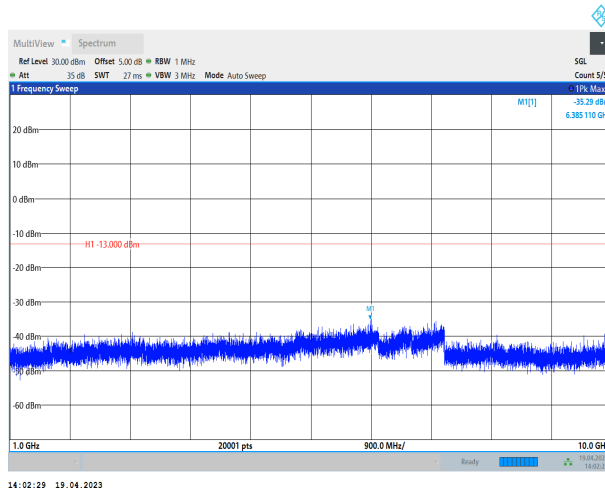
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Band17-10MHz-QPSK-23800-1RB#0-Range3:30~1000MHz



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



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## Field Strength of Spurious Radiation

Test Band = LTE\_B17\_10MHz\_TM1

Test Channel = LCH

Final Data List										
NO	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1409.126	61.53	-53.63	25.78	-61.58	-13.00	48.58	256	160	Horizontal
2	2113.7175	63.99	-52.13	27.47	-55.93	-13.00	42.93	325	319	Horizontal
3	3828.9094	53.27	-48.19	30.44	-59.74	-13.00	46.74	211	160	Horizontal
4	5591.1597	52.38	-44.17	33.36	-53.69	-13.00	40.69	145	273	Horizontal
5	8054.1444	49.13	-41.65	37.59	-50.19	-13.00	37.19	326	140	Horizontal
6	9711.7346	48.49	-39.19	38.72	-47.24	-13.00	34.24	256	7	Horizontal

Final Data List										
NO	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1467.2419	55.17	-53.28	25.67	-67.70	-13.00	54.70	254	307	Vertical
2	2113.9747	61.79	-52.13	27.47	-58.13	-13.00	45.13	213	320	Vertical
3	3164.9476	54.35	-50.08	30.33	-60.66	-13.00	47.66	263	2	Vertical
4	5148.3471	52.12	-44.31	33.60	-53.85	-13.00	40.85	255	281	Vertical
5	8422.6406	50.32	-41.90	37.78	-49.06	-13.00	36.06	150	161	Vertical
6	9736.421	48.36	-38.97	38.77	-47.10	-13.00	34.10	256	108	Vertical



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Test Band = LTE\_B17\_10MHz\_TM1

Test Channel = MCH

Final Data List										
NO	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1411.1832	63.82	-53.61	25.78	-59.27	-13.00	46.27	289	129	Horizontal
2	2116.8033	64.65	-52.14	27.47	-55.28	-13.00	42.28	365	320	Horizontal
3	3827.1093	53.19	-48.19	30.45	-59.81	-13.00	46.81	254	320	Horizontal
4	5703.5344	51.23	-43.43	33.53	-53.93	-13.00	40.93	189	300	Horizontal
5	8069.3163	49.21	-41.78	37.56	-50.27	-13.00	37.27	226	307	Horizontal
6	9729.7351	48.06	-39.03	38.76	-47.47	-13.00	34.47	320	222	Horizontal

Final Data List										
NO	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1367.9819	55.72	-53.71	25.86	-67.39	-13.00	54.39	289	48	Vertical
2	2116.8033	62.18	-52.14	27.47	-57.75	-13.00	44.75	365	299	Vertical
3	3286.8368	53.15	-49.76	30.67	-61.20	-13.00	48.20	254	186	Vertical
4	5233.2067	51.85	-44.25	33.03	-54.63	-13.00	41.63	223	339	Vertical
5	8546.3299	49.72	-41.46	39.01	-47.99	-13.00	34.99	226	40	Vertical
6	9911.026	48.43	-39.71	39.03	-47.51	-13.00	34.51	326	34	Vertical



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Test Band = LTE\_B17\_10MHz\_TM1

Test Channel = HCH

Final Data List										
NO	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1413.2404	63.59	-53.59	25.77	-59.49	-13.00	46.49	148	34	Horizontal
2	2119.8891	62.42	-52.16	27.46	-57.54	-13.00	44.54	256	320	Horizontal
3	3210.4632	53.62	-50.14	30.44	-61.34	-13.00	48.34	335	358	Horizontal
4	5094.6027	51.45	-44.11	33.49	-54.43	-13.00	41.43	259	339	Horizontal
5	7367.5534	50.46	-42.70	36.86	-50.64	-13.00	37.64	251	120	Horizontal
6	9731.278	48.32	-39.02	38.76	-47.20	-13.00	34.20	149	187	Horizontal

Final Data List										
NO	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1445.127	55.17	-53.30	25.71	-67.68	-13.00	54.68	189	327	Vertical
2	2119.8891	60.72	-52.16	27.46	-59.24	-13.00	46.24	256	314	Vertical
3	3390.4683	53.19	-49.70	29.78	-61.99	-13.00	48.99	325	360	Vertical
4	4984.7996	51.84	-44.03	33.13	-54.32	-13.00	41.32	256	115	Vertical
5	7099.0885	49.83	-43.28	36.89	-51.82	-13.00	38.82	325	308	Vertical
6	9557.7016	47.96	-39.78	39.12	-47.96	-13.00	34.96	289	228	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	-7.90	-0.011127	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	-7.30	-0.010282	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	-6.70	-0.009437	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	-7.60	-0.010704	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	-8.80	-0.012394	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	-5.00	-0.007042	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	-5.70	-0.008028	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	-8.30	-0.011690	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	-6.90	-0.009718	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	-10.80	-0.015211	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	-2.70	-0.003803	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	-7.10	-0.010000	PASS

---End of Attachment---



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