Appendix B.9

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	23.38	22.2	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.43	22.25	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.28	22.1	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.37	21.19	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.3	22.12	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.4	22.22	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.31	22.13	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.45	21.27	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.29	22.11	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.3	22.12	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.23	22.05	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.31	21.13	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.64	21.46	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.64	21.46	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	22.72	21.54	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.47	20.29	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.69	21.51	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.57	21.39	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	22.65	21.47	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.46	20.28	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.57	21.39	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	22.49	21.31	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.49	21.31	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.41	20.23	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	21.64	20.46	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	21.52	20.34	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	21.5	20.32	34.77	PASS
Band17	5MHz	64QAM	23755	25RB#0	20.46	19.28	34.77	PASS

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Band17	5MHz	64QAM	23790	1RB#0	21.52	20.34	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	21.57	20.39	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	21.66	20.48	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	20.45	19.27	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	21.47	20.29	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	21.47	20.29	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	21.41	20.23	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	20.38	19.2	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.47	22.29	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.29	22.11	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.11	21.93	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.39	21.21	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.33	22.15	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.27	22.09	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.21	22.03	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.34	21.16	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.32	22.14	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.25	22.07	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.16	21.98	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.38	21.2	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.68	21.5	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.63	21.45	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.58	21.4	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.41	20.23	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.7	21.52	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.78	21.6	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	22.64	21.46	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.29	20.11	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	22.61	21.43	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	22.56	21.38	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	22.56	21.38	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.41	20.23	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	21.52	20.34	34.77	PASS

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Band17	10MHz	64QAM	23780	1RB#24	21.54	20.36	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	21.47	20.29	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	20.41	19.23	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	21.47	20.29	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	21.51	20.33	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	21.42	20.24	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	20.43	19.25	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	21.45	20.27	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	21.51	20.33	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	21.56	20.38	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	20.41	19.23	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	5.08	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.12	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.16	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	5.90	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	5.90	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	5.96	13	PASS
Band17	10MHz	64QAM	23780	50RB#0	6.52	13	PASS
Band17	10MHz	64QAM	23790	50RB#0	6.52	13	PASS
Band17	10MHz	64QAM	23800	50RB#0	6.50	13	PASS

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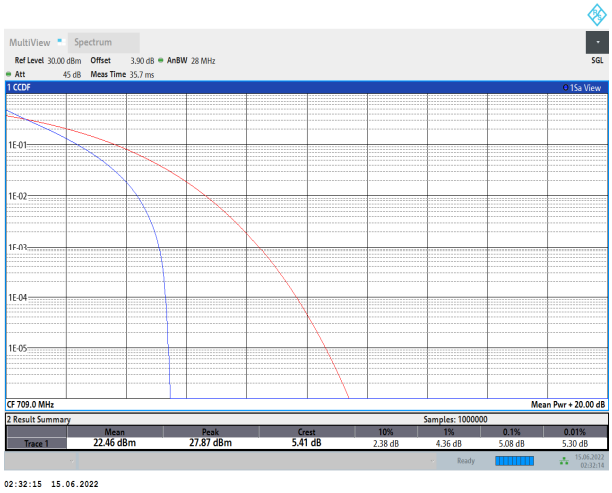
Test Graphs

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



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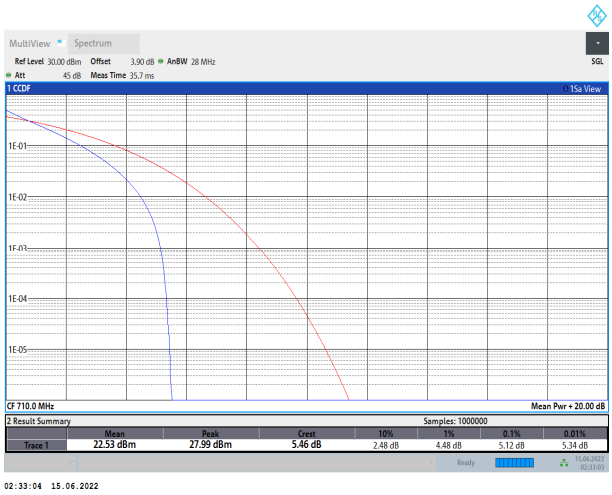

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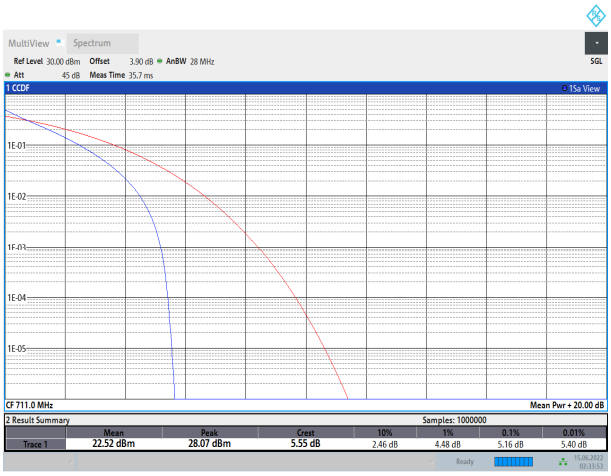
Band17-10MHz-QPSK-23800-50RB#0



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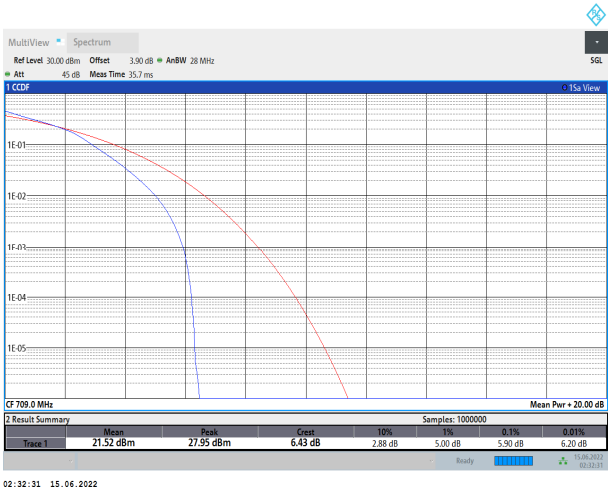

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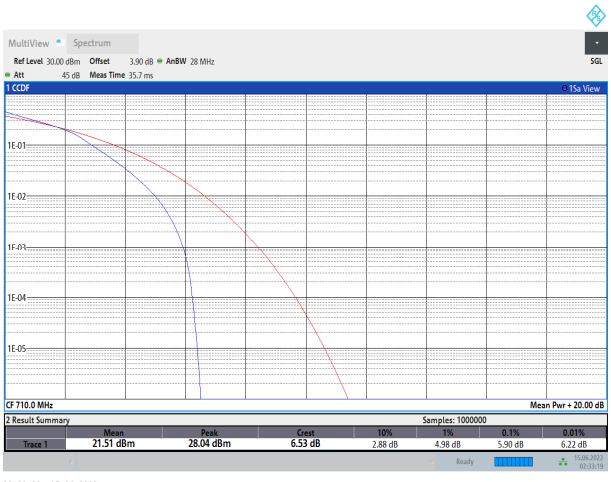
Band17-10MHz-16QAM-23790-50RB#0



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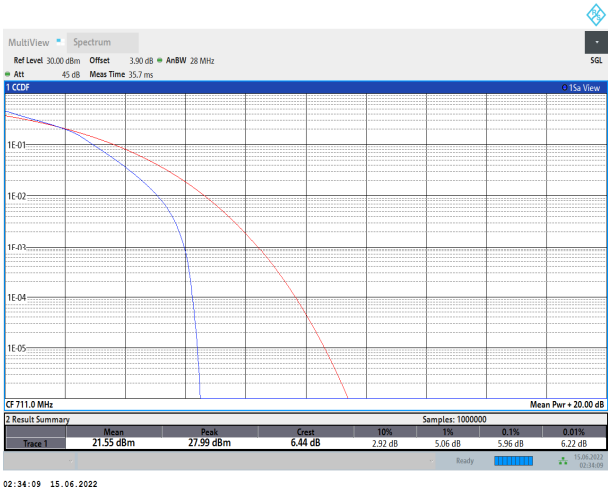

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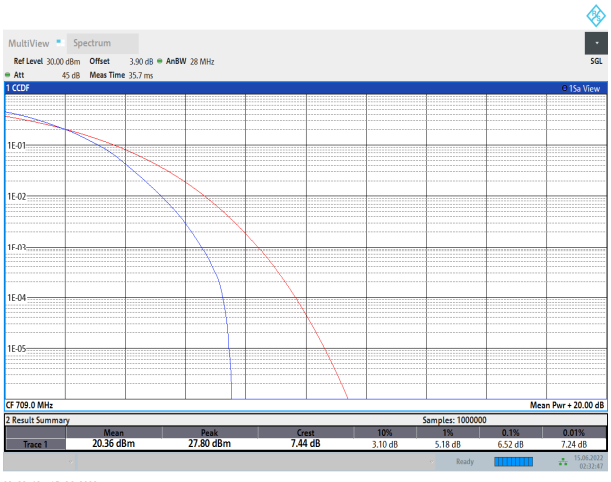
Band17-10MHz-64QAM-23780-50RB#0



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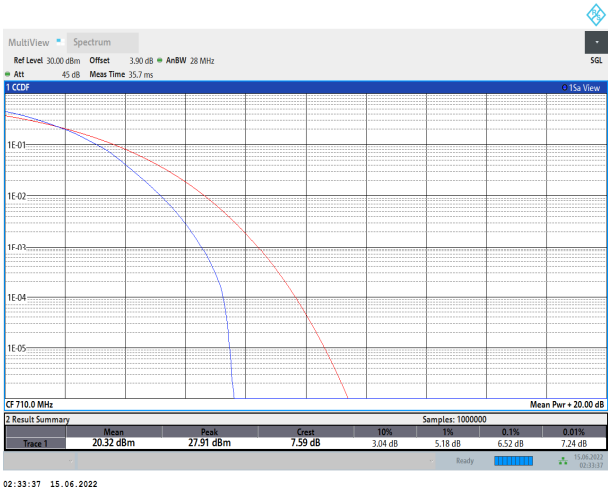

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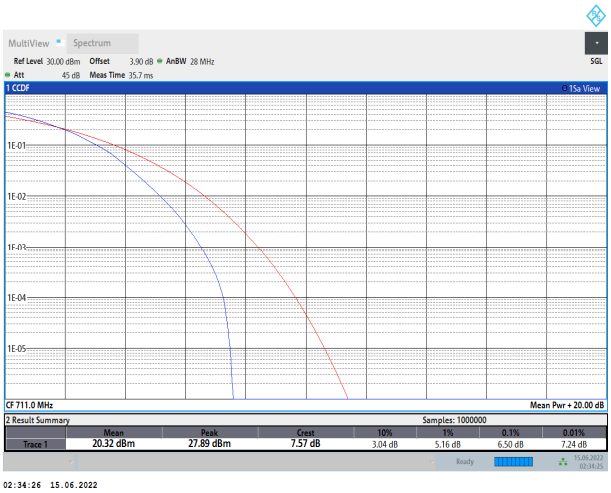
Band17-10MHz-64QAM-23800-50RB#0



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

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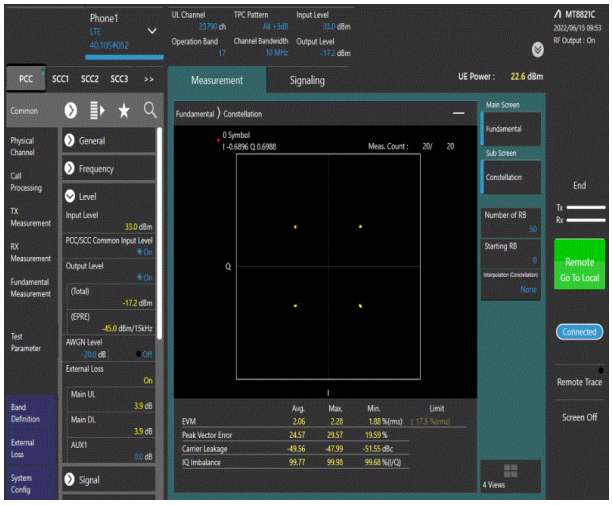
Test Graphs

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



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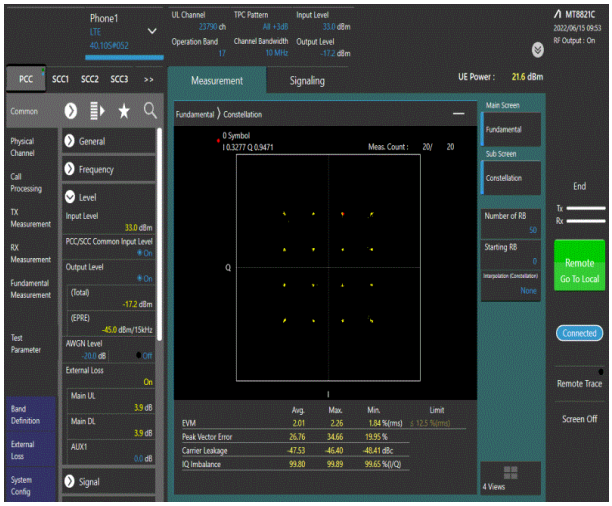

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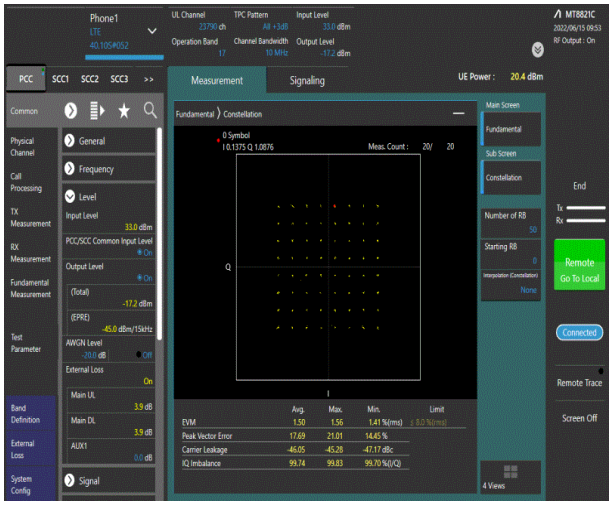

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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.470	4.89	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.471	4.90	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.469	4.88	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.463	4.90	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.463	4.90	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.467	4.90	PASS
Band17	5MHz	64QAM	23755	25RB#0	4.474	4.90	PASS
Band17	5MHz	64QAM	23790	25RB#0	4.476	4.91	PASS
Band17	5MHz	64QAM	23825	25RB#0	4.470	4.88	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.934	9.63	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.942	9.67	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.932	9.73	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.896	9.60	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.902	9.67	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.914	9.63	PASS
Band17	10MHz	64QAM	23780	50RB#0	8.918	9.63	PASS
Band17	10MHz	64QAM	23790	50RB#0	8.921	9.60	PASS
Band17	10MHz	64QAM	23800	50RB#0	8.926	9.63	PASS

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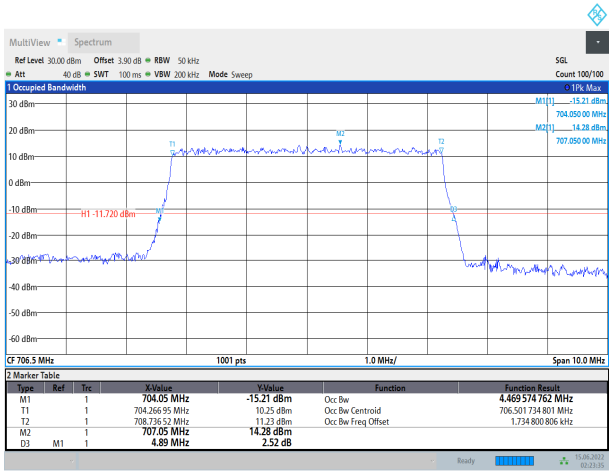
Test Graphs

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



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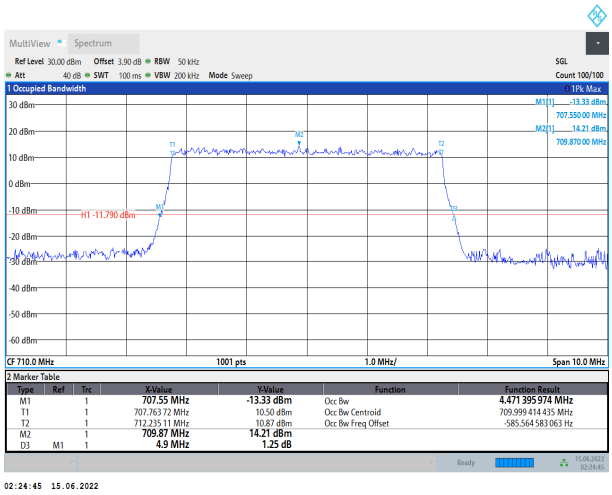

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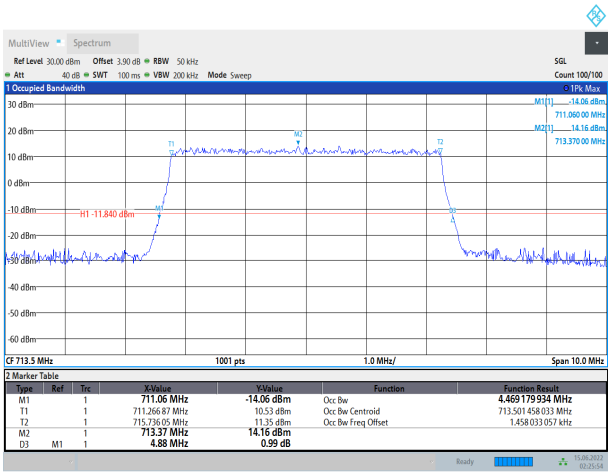
Band17-5MHz-QPSK-23825-25RB#0



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

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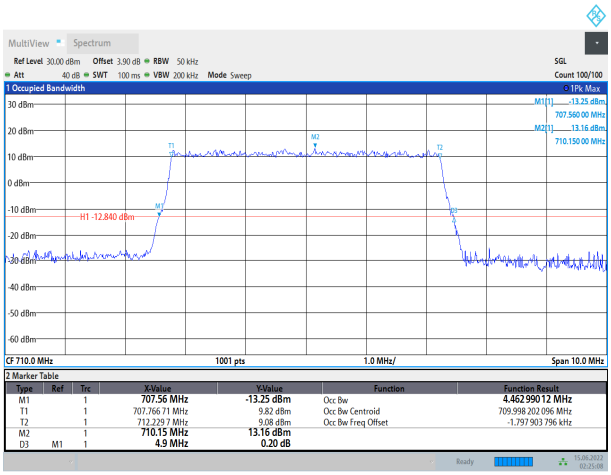

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Band17-5MHz-16QAM-23825-25RB#0

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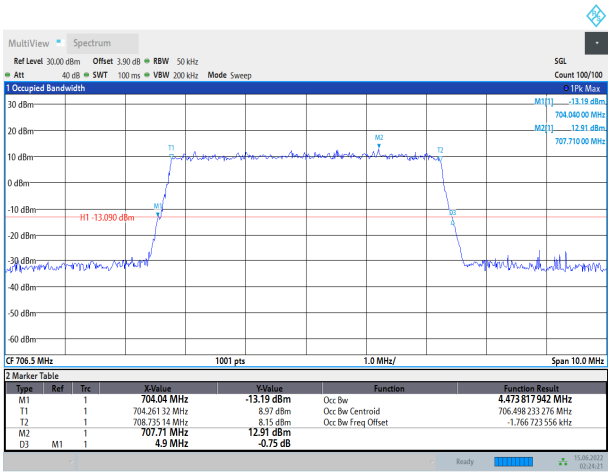

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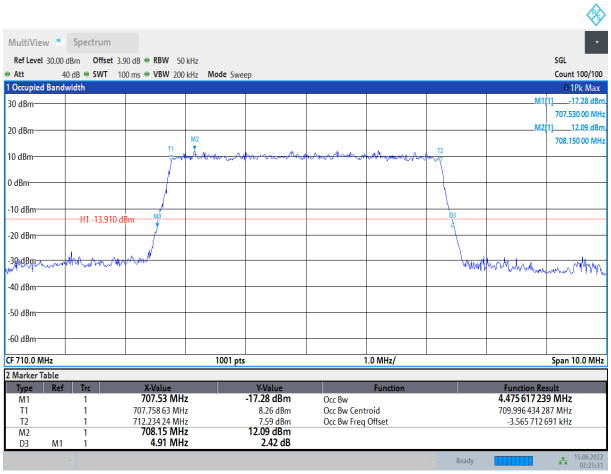

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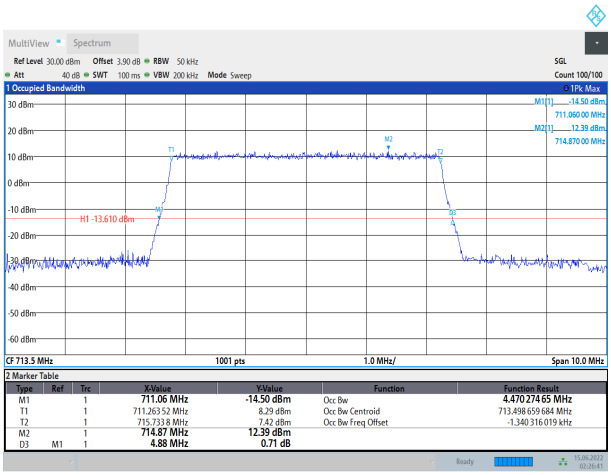

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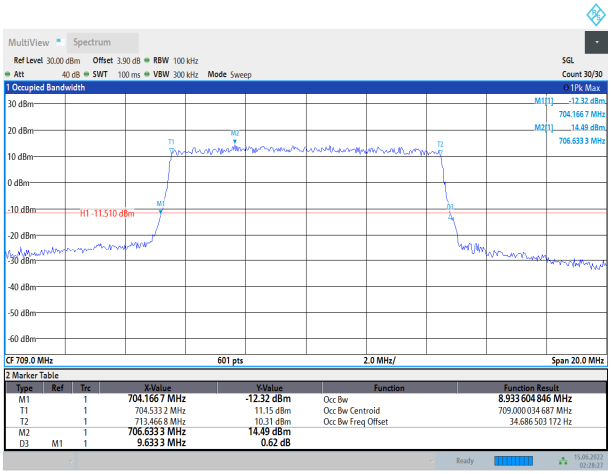

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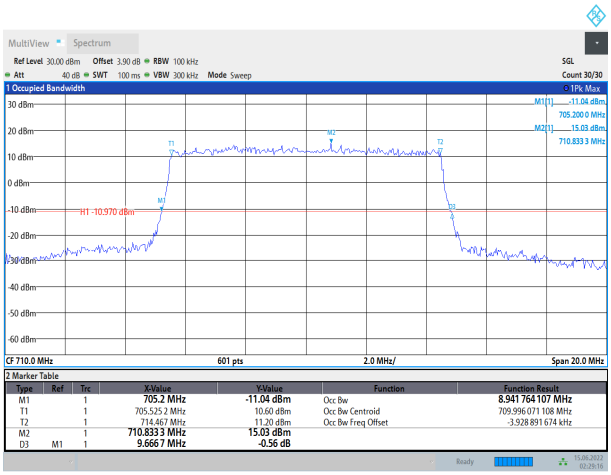
Band17-10MHz-QPSK-23790-50RB#0



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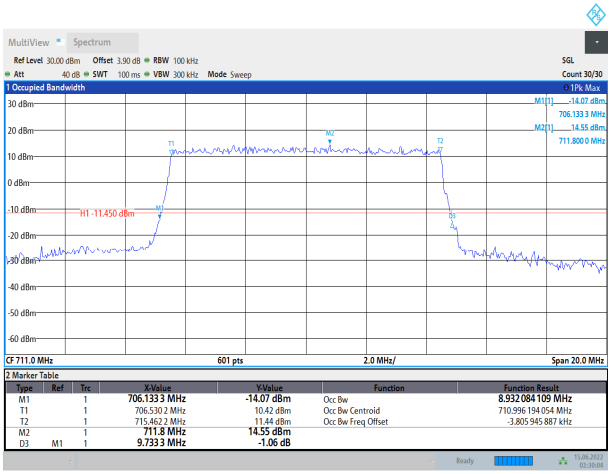

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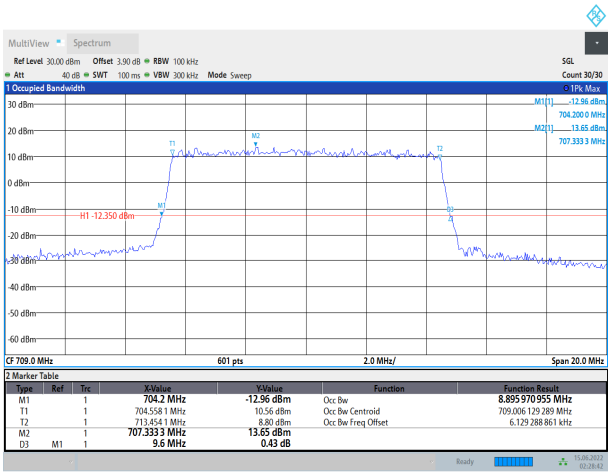
Band17-10MHz-16QAM-23780-50RB#0



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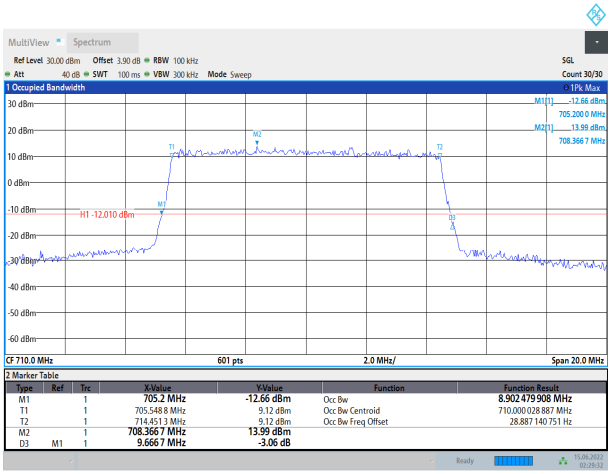

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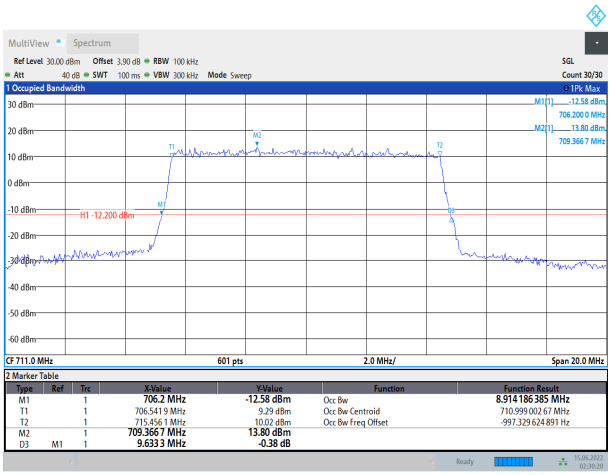
Band17-10MHz-16QAM-23800-50RB#0



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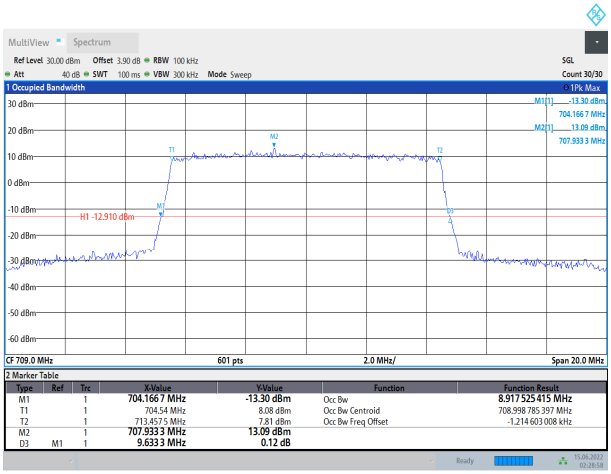
Band17-10MHz-64QAM-23780-50RB#0



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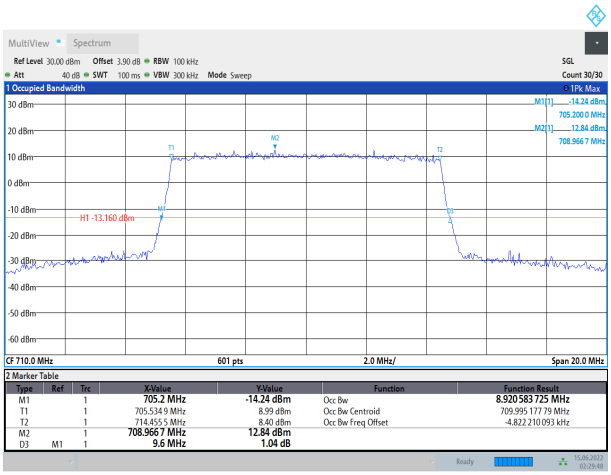
Band17-10MHz-64QAM-23790-50RB#0



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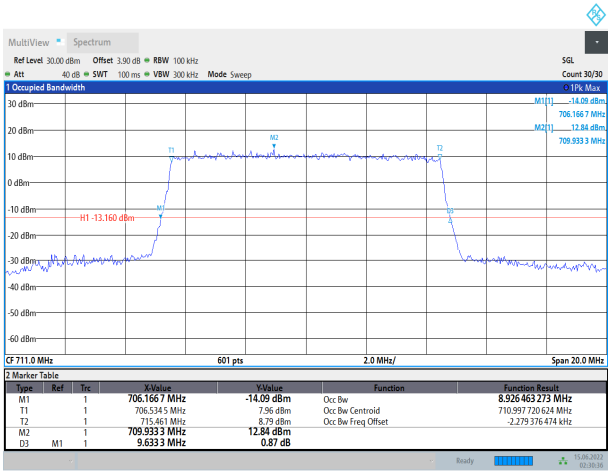
Band17-10MHz-64QAM-23800-50RB#0



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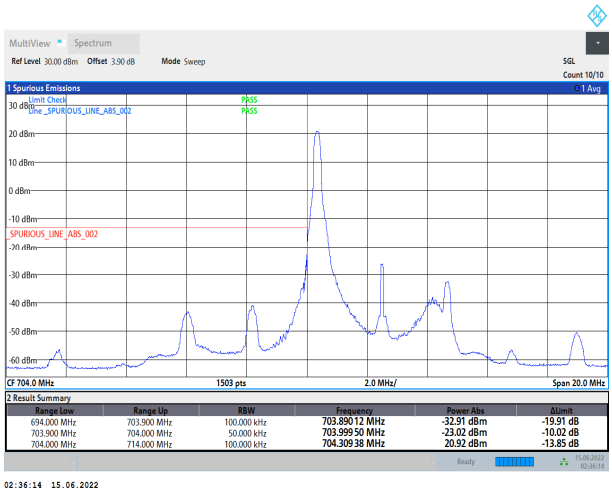
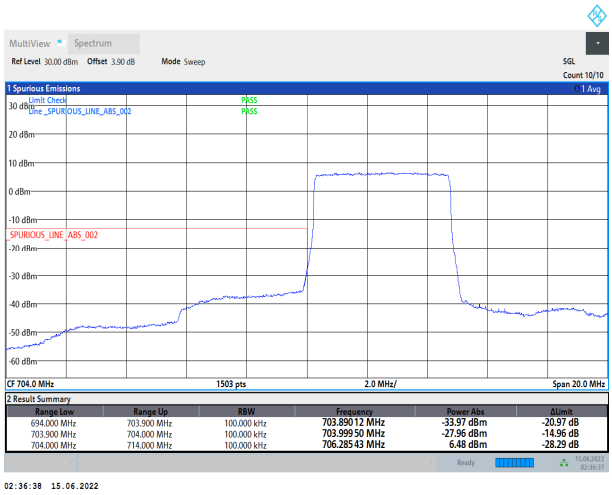
Band Edge

Test Graphs

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



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



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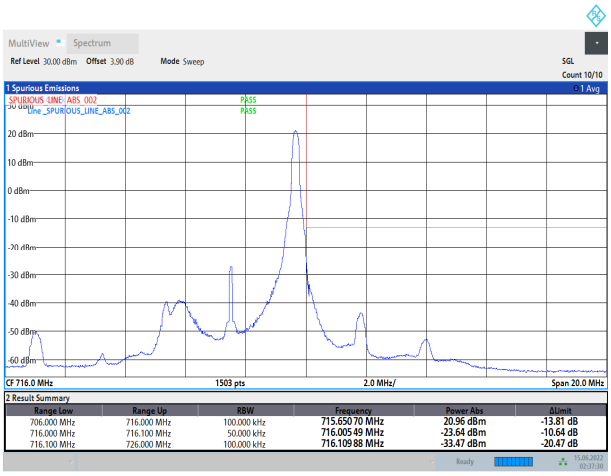
Band17-5MHz-QPSK-23825-1RB#24



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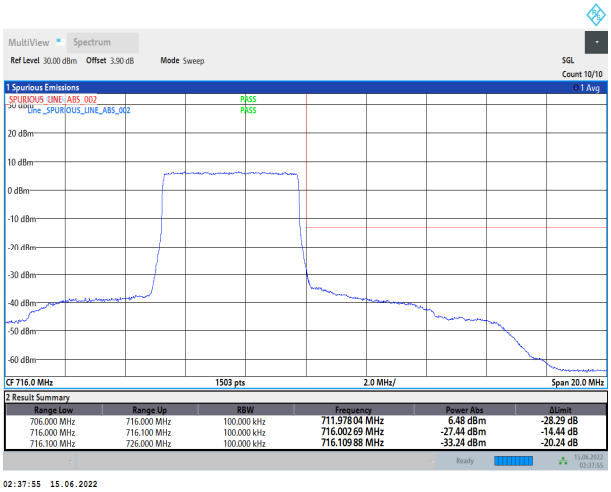

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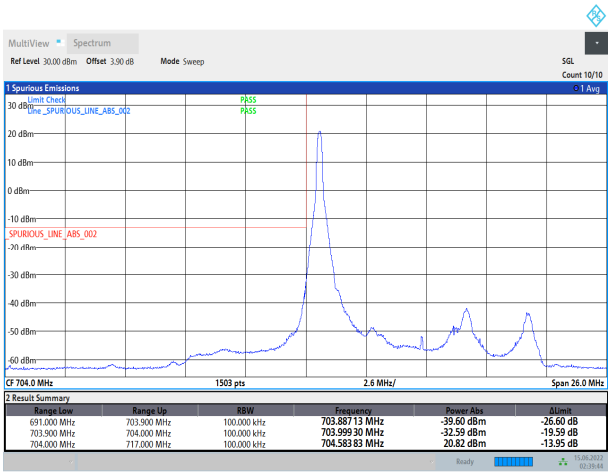
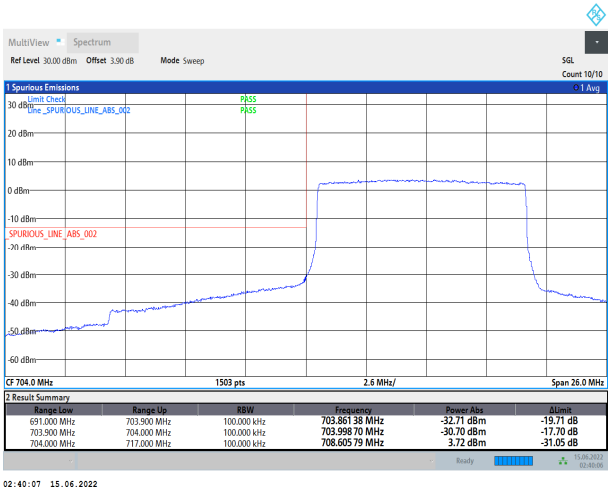
Band17-10MHz-QPSK-23780-1RB#0



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



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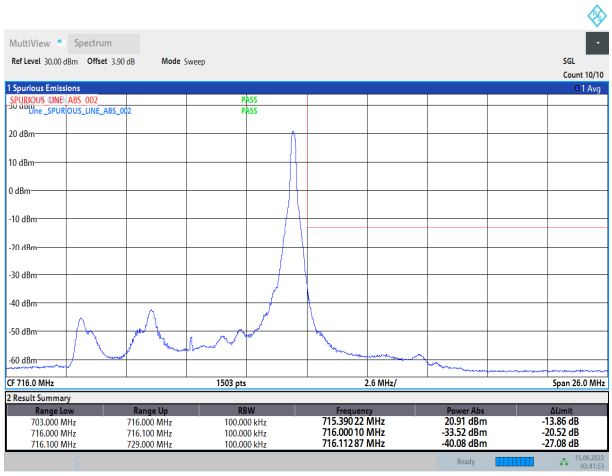
Band17-10MHz-QPSK-23800-1RB#49



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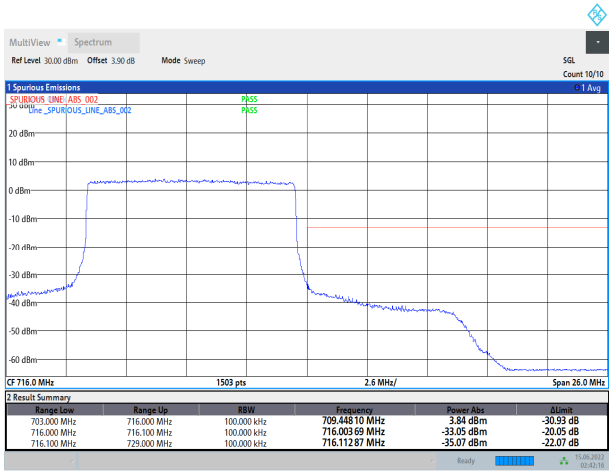
Band17-10MHz-QPSK-23800-50RB#0



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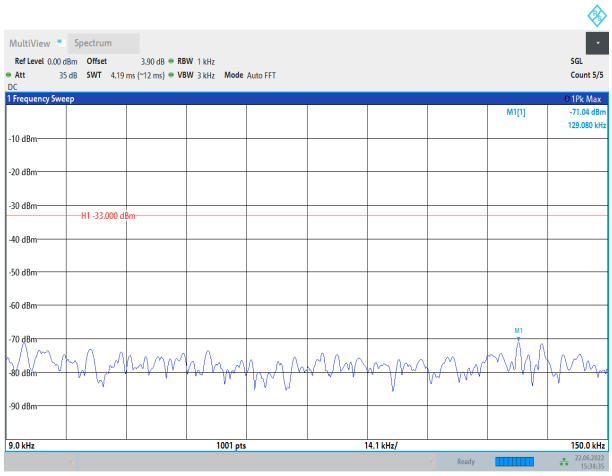
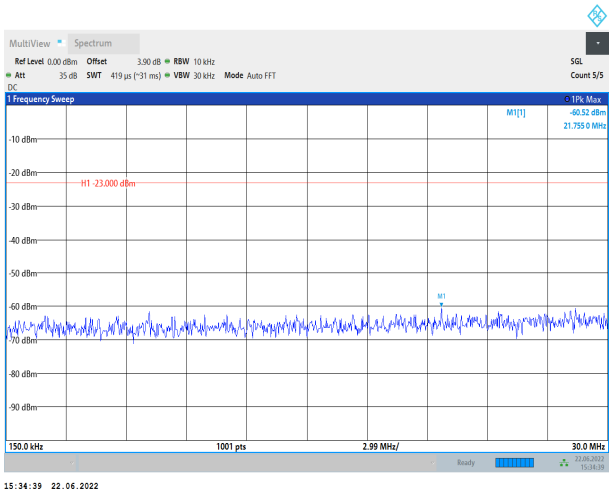
Conducted Spurious Emission

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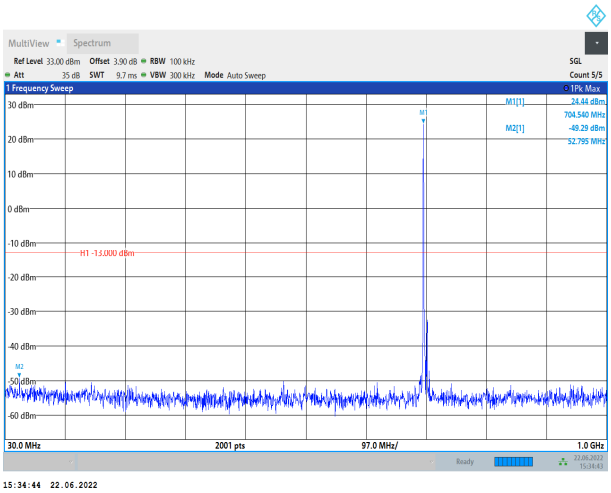
Band17-10MHz-QPSK-23780-1RB#0-Range3:30~1000MHz



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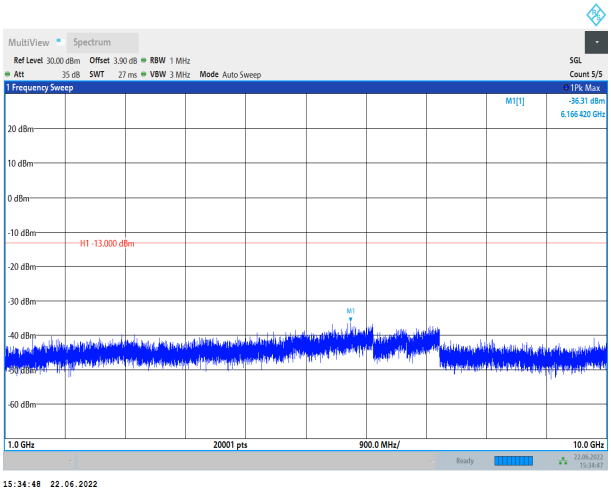

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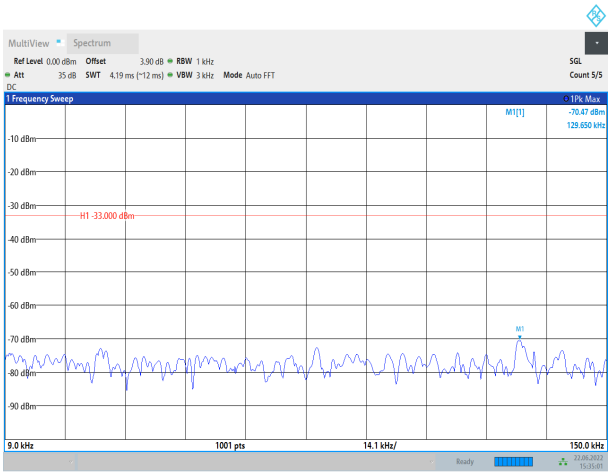
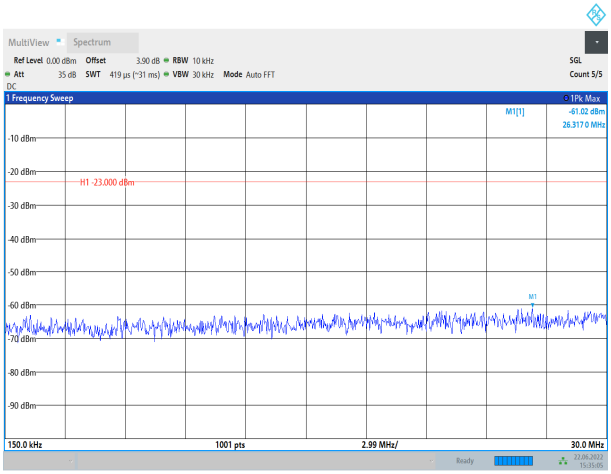
Band17-10MHz-QPSK-23790-1RB#0-Range1:0.009~0.15MHz



15:35:02 22.06.2022

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



15:35:05 22.06.2022

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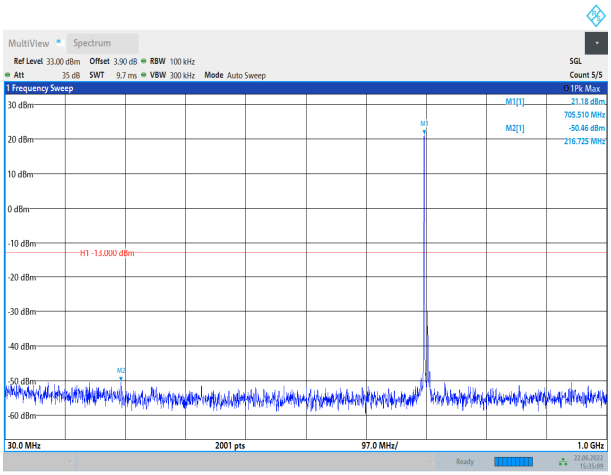
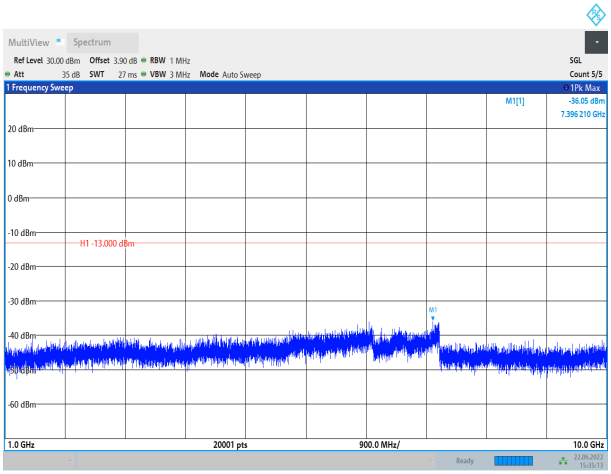
Band17-10MHz-QPSK-23790-1RB#0-Range3:30~1000MHz



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



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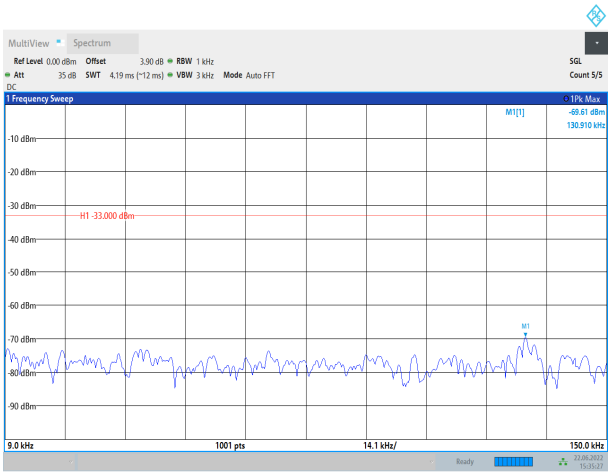
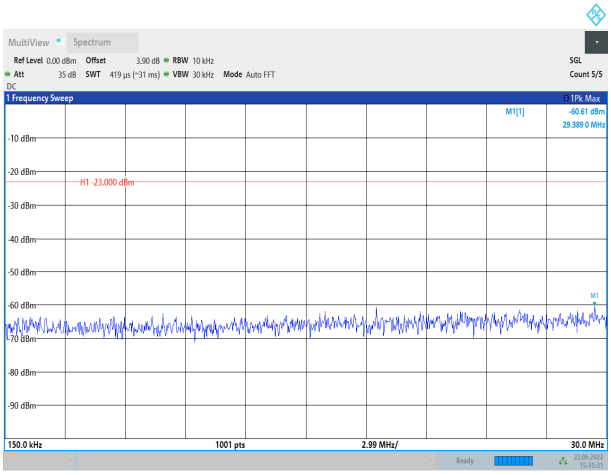
Band17-10MHz-QPSK-23800-1RB#0-Range1:0.009~0.15MHz



15:35:28 22.06.2022

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



15:35:32 22.06.2022

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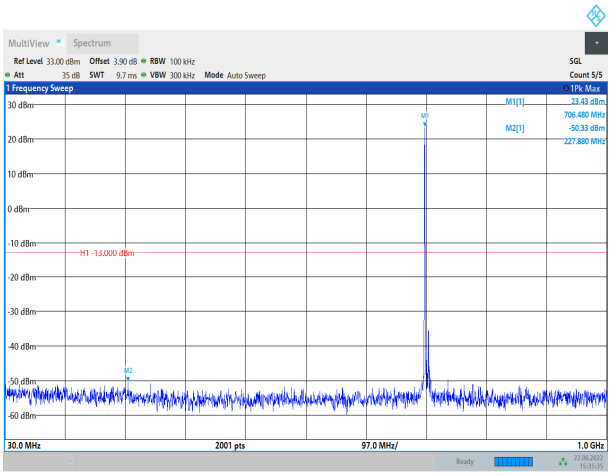
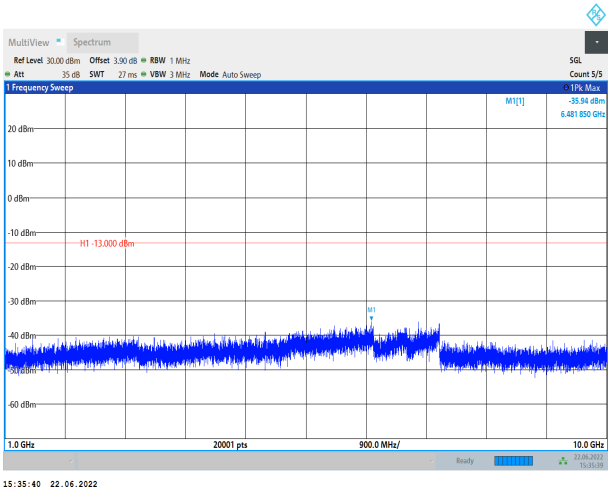
Band17-10MHz-QPSK-23800-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE Band 17_ TM1
Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1409.1800	51.03	-117.68	-66.65	-13.00	53.65	247	16	Horizontal
2	2125.1429	61.20	-115.88	-54.68	-13.00	41.68	151	162	Horizontal
3	2818.3600	49.98	-113.55	-63.57	-13.00	50.57	238	0	Horizontal
4	3522.9500	48.90	-112.21	-63.31	-13.00	50.31	185	227	Horizontal
5	4227.5400	48.86	-110.01	-61.15	-13.00	48.15	174	26	Horizontal
6	4932.1300	48.81	-108.22	-59.41	-13.00	46.41	155	3	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1409.1800	51.06	-117.68	-66.62	-13.00	53.62	288	318	Vertical
2	2125.1429	64.96	-115.88	-50.92	-13.00	37.92	156	120	Vertical
3	2818.3600	49.86	-113.55	-63.69	-13.00	50.69	258	92	Vertical
4	3522.9500	50.47	-112.21	-61.74	-13.00	48.74	210	359	Vertical
5	4227.5400	48.11	-110.01	-61.90	-13.00	48.90	107	159	Vertical
6	4932.1300	48.68	-108.22	-59.54	-13.00	46.54	177	185	Vertical

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Test Band = LTE Band 17_ TM1
Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1411.1800	51.66	-117.69	-66.03	-13.00	53.03	288	175	Horizontal
2	2124.5714	60.88	-115.89	-55.01	-13.00	42.01	179	56	Horizontal
3	2822.3600	49.67	-113.52	-63.85	-13.00	50.85	285	42	Horizontal
4	3527.9500	49.71	-112.20	-62.49	-13.00	49.49	147	254	Horizontal
5	4233.5400	48.07	-109.99	-61.92	-13.00	48.92	158	0	Horizontal
6	4939.1300	49.10	-108.22	-59.12	-13.00	46.12	177	188	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1411.1800	51.21	-117.69	-66.48	-13.00	53.48	287	252	Vertical
2	2124.5714	65.19	-115.89	-50.70	-13.00	37.70	123	93	Vertical
3	2822.3600	50.64	-113.52	-62.88	-13.00	49.88	254	118	Vertical
4	3527.9500	49.01	-112.20	-63.19	-13.00	50.19	144	172	Vertical
5	4233.5400	48.26	-109.99	-61.73	-13.00	48.73	168	146	Vertical
6	4939.1300	48.86	-108.22	-59.36	-13.00	46.36	124	357	Vertical

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Test Band = LTE Band 17_ TM1
Test Channel = High

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.1800	51.66	-117.70	-66.04	-13.00	53.04	134	125	Horizontal
2	2125.1429	60.39	-115.88	-55.49	-13.00	42.49	155	157	Horizontal
3	2826.3600	50.16	-113.49	-63.33	-13.00	50.33	137	9	Horizontal
4	3532.9500	50.86	-112.18	-61.32	-13.00	48.32	143	150	Horizontal
5	4239.5400	48.15	-109.97	-61.82	-13.00	48.82	234	242	Horizontal
6	4946.1300	48.59	-108.22	-59.63	-13.00	46.63	175	202	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.1800	51.61	-117.70	-66.09	-13.00	53.09	134	360	Vertical
2	2125.1429	64.47	-115.88	-51.41	-13.00	38.41	119	120	Vertical
3	2826.3600	49.41	-113.49	-64.08	-13.00	51.08	276	252	Vertical
4	3532.9500	49.54	-112.18	-62.64	-13.00	49.64	249	159	Vertical
5	4239.5400	48.54	-109.97	-61.43	-13.00	48.43	247	226	Vertical
6	4946.1300	49.26	-108.22	-58.96	-13.00	45.96	137	331	Vertical

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading Level(dBμV) + Factor(dB):

Factor = AF(dB/m) + Cable Factor(dB) - Preamplifier gain(dB)

AF = Antenna Factor(dB/m)

Margin = Limit(dBm) – Level(dBm)

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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	0.00	0.000000	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	-1.40	-0.001972	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	0.70	0.000986	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	-1.30	-0.001831	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	-6.00	-0.008451	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	3.80	0.005352	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	3.10	0.004366	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	-2.00	-0.002817	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	-2.00	-0.002817	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	-2.30	-0.003239	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	-5.40	-0.007606	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	-3.00	-0.004225	PASS

---End of Attachment---

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