

Appendix B.9

LTE Band 17



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Effective (Isotropic) Radiated Power Output Data

Test Result

ANTO:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	24.45	16.3	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	24.36	16.21	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	24.35	16.2	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	23.66	15.51	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.98	15.83	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	24.41	16.26	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	24.32	16.17	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	23.59	15.44	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	24.14	15.99	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	24.25	16.1	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	24.19	16.04	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	23.49	15.34	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	23.76	15.61	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	23.88	15.73	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	23.89	15.74	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	22.62	14.47	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	23.81	15.66	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	23.85	15.7	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	23.4	15.25	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	22.61	14.46	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	23.77	15.62	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	23.76	15.61	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	23.86	15.71	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	22.51	14.36	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	22.72	14.57	34.77	PASS



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Band17	5MHz	64QAM	23755	1RB#12	22.78	14.63	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	22.72	14.57	34.77	PASS
Band17	5MHz	64QAM	23755	25RB#0	21.62	13.47	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	22.75	14.6	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	22.7	14.55	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	22.72	14.57	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	21.58	13.43	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	22.7	14.55	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	22.77	14.62	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	22.68	14.53	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	21.46	13.31	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	24.36	16.21	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	24.47	16.32	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	24.33	16.18	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	23.73	15.58	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	24.48	16.33	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	24.41	16.26	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	24.36	16.21	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	23.69	15.54	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	24.28	16.13	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	24.37	16.22	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	24.18	16.03	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	23.6	15.45	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	23.86	15.71	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	23.93	15.78	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	23.7	15.55	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	22.7	14.55	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	23.89	15.74	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	23.95	15.8	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	23.73	15.58	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	22.66	14.51	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	23.89	15.74	34.77	PASS



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Band17	10MHz	16QAM	23800	1RB#24	23.79	15.64	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	23.77	15.62	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	22.59	14.44	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	22.7	14.55	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	22.68	14.53	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	22.56	14.41	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	21.66	13.51	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	22.85	14.7	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	22.8	14.65	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	22.64	14.49	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	21.64	13.49	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	22.84	14.69	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	22.8	14.65	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	22.63	14.48	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	21.57	13.42	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	5.70	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.64	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.64	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.42	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.42	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.42	13	PASS
Band17	10MHz	64QAM	23780	50RB#0	6.64	13	PASS
Band17	10MHz	64QAM	23790	50RB#0	6.64	13	PASS
Band17	10MHz	64QAM	23800	50RB#0	6.84	13	PASS



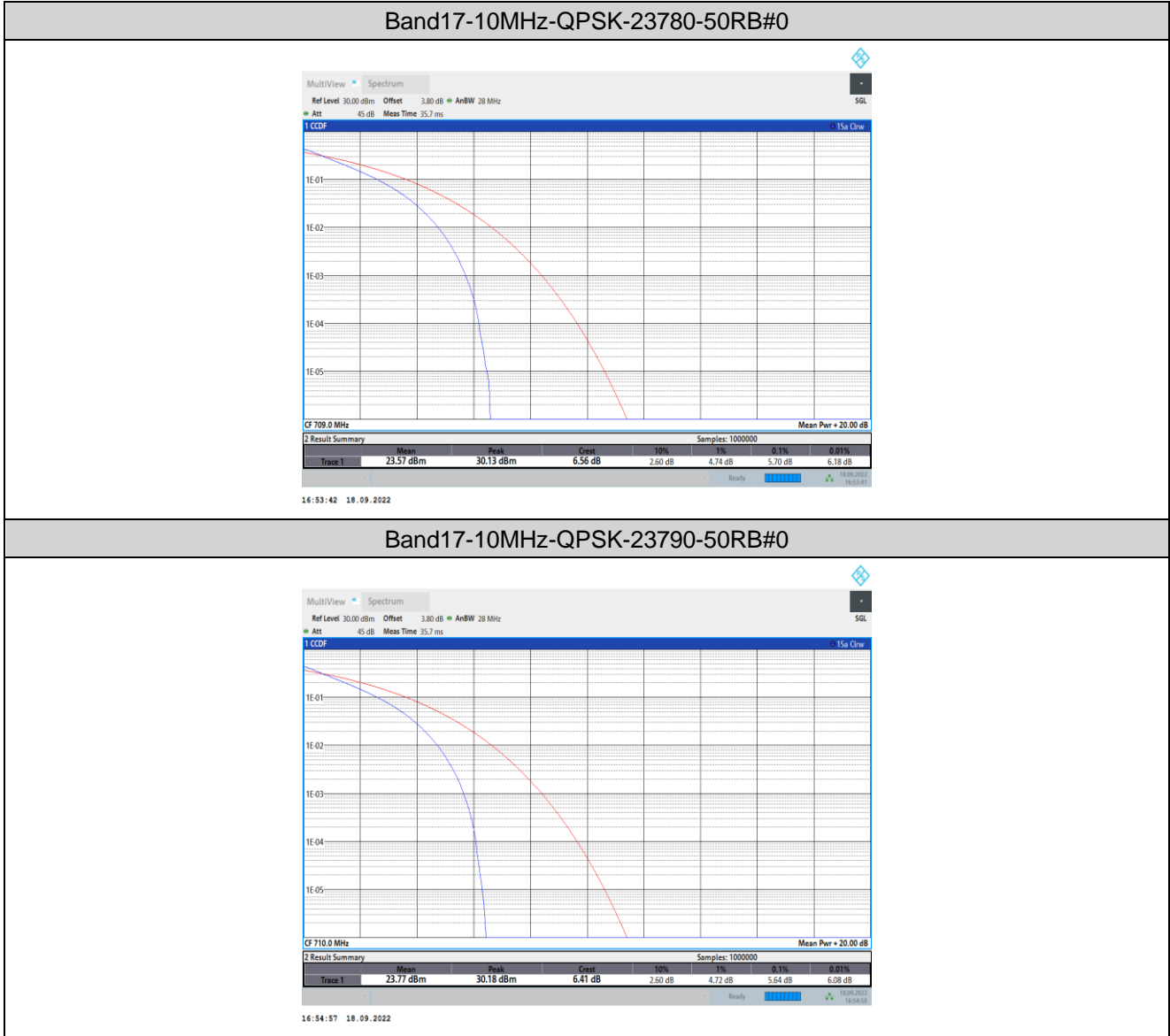
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Test Graphs

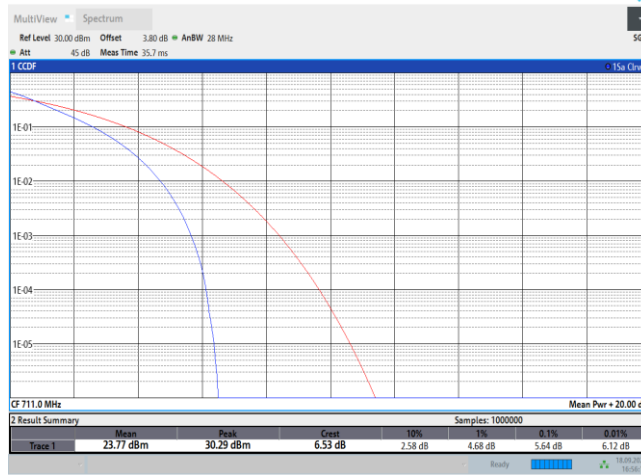


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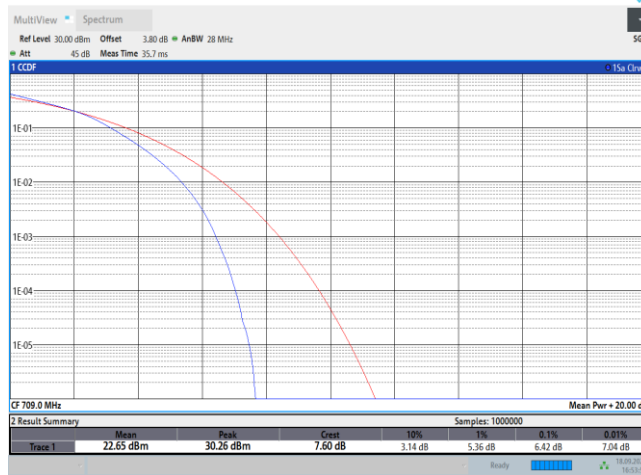
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Band17-10MHz-QPSK-23800-50RB#0



16:56:13 18.09.2022

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



16:53:58 18.09.2022

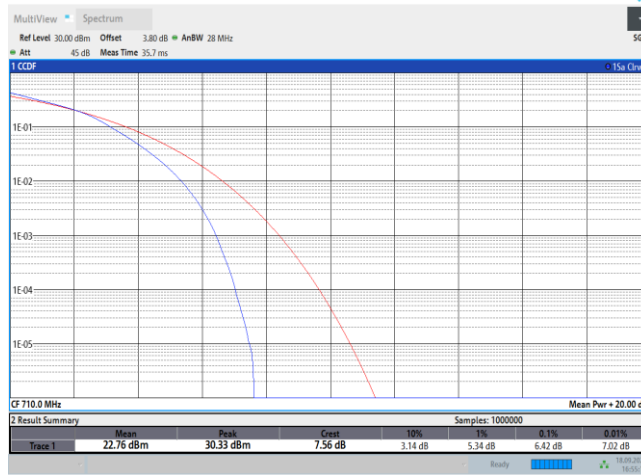


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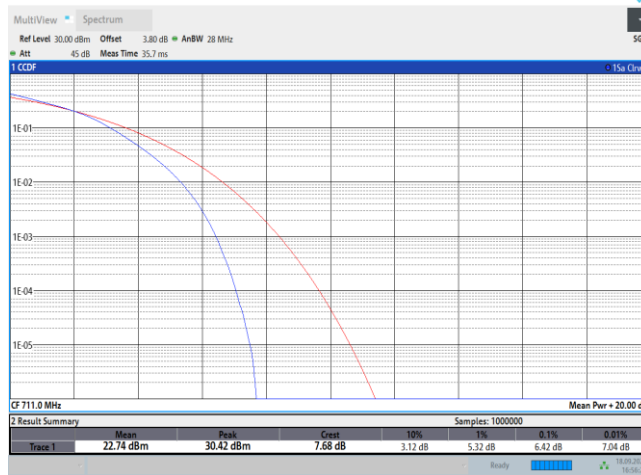
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Band17-10MHz-16QAM-23790-50RB#0



16:55:13 18.09.2022

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



16:56:29 18.09.2022

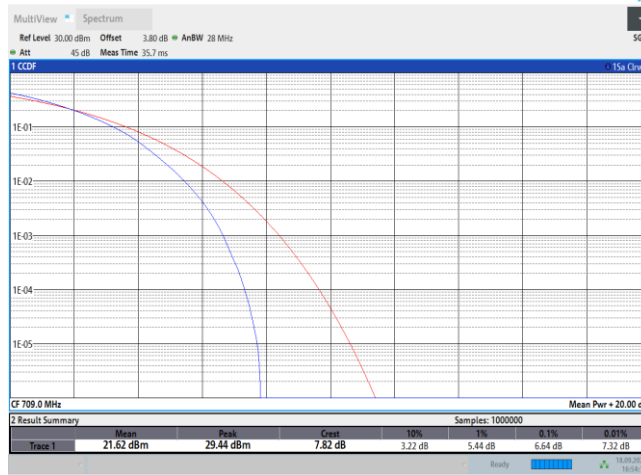


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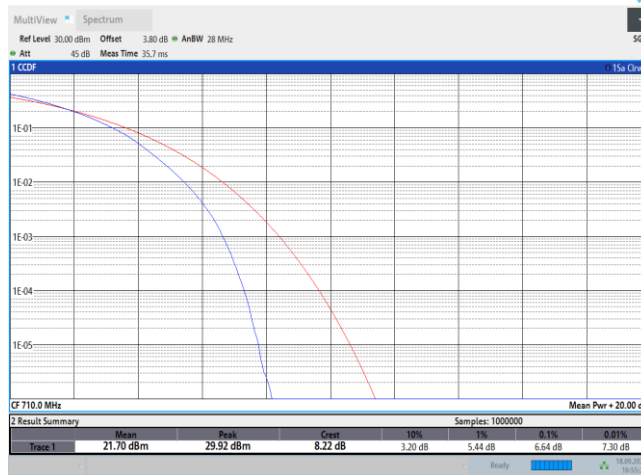
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Band17-10MHz-64QAM-23780-50RB#0



16:54:14 18.09.2022

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



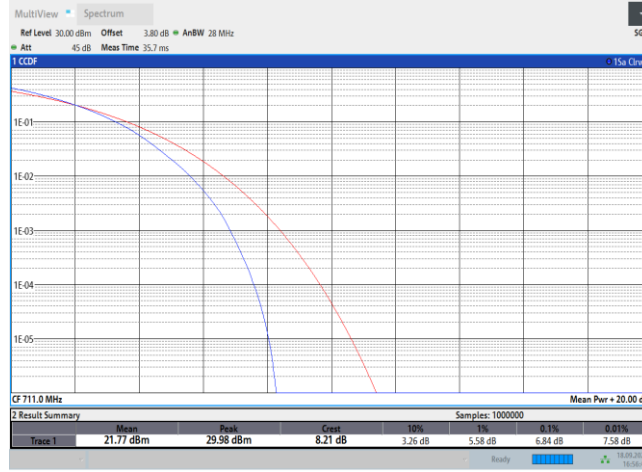
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Band17-10MHz-64QAM-23800-50RB#0



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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

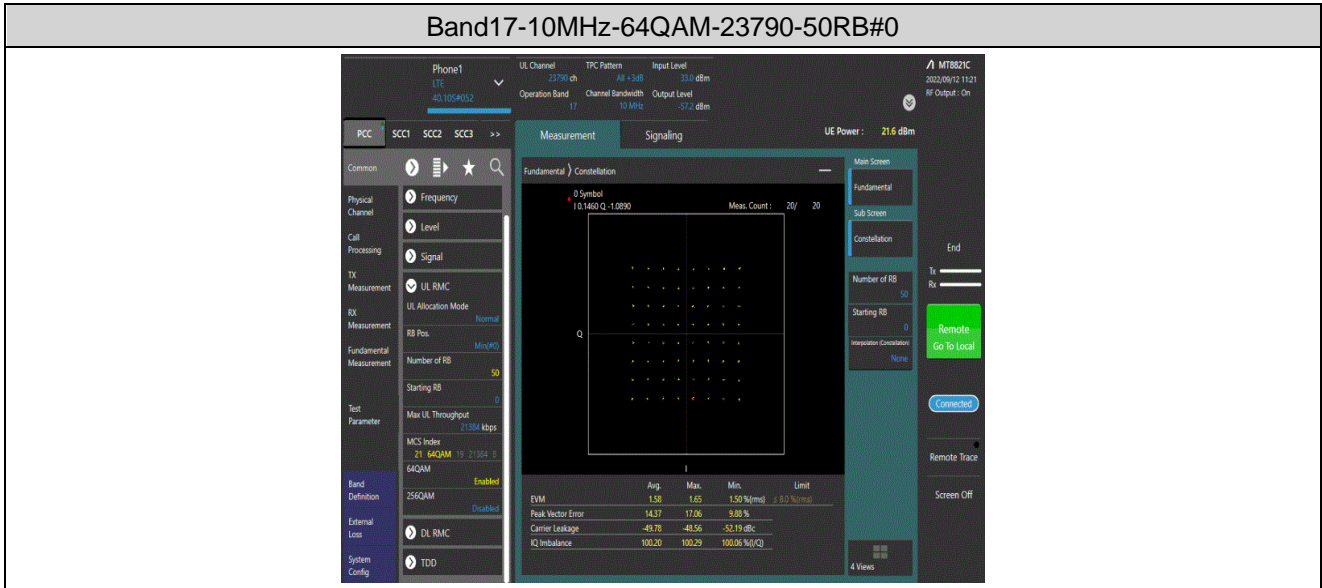


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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.466	4.83	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.475	4.84	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.462	4.84	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.463	4.89	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.472	4.89	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.466	4.89	PASS
Band17	5MHz	64QAM	23755	25RB#0	4.475	4.85	PASS
Band17	5MHz	64QAM	23790	25RB#0	4.479	4.89	PASS
Band17	5MHz	64QAM	23825	25RB#0	4.473	4.85	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.956	9.70	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.972	9.73	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.949	9.67	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.952	9.63	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.947	9.60	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.946	9.67	PASS
Band17	10MHz	64QAM	23780	50RB#0	8.959	9.70	PASS
Band17	10MHz	64QAM	23790	50RB#0	8.971	9.70	PASS
Band17	10MHz	64QAM	23800	50RB#0	8.966	9.70	PASS

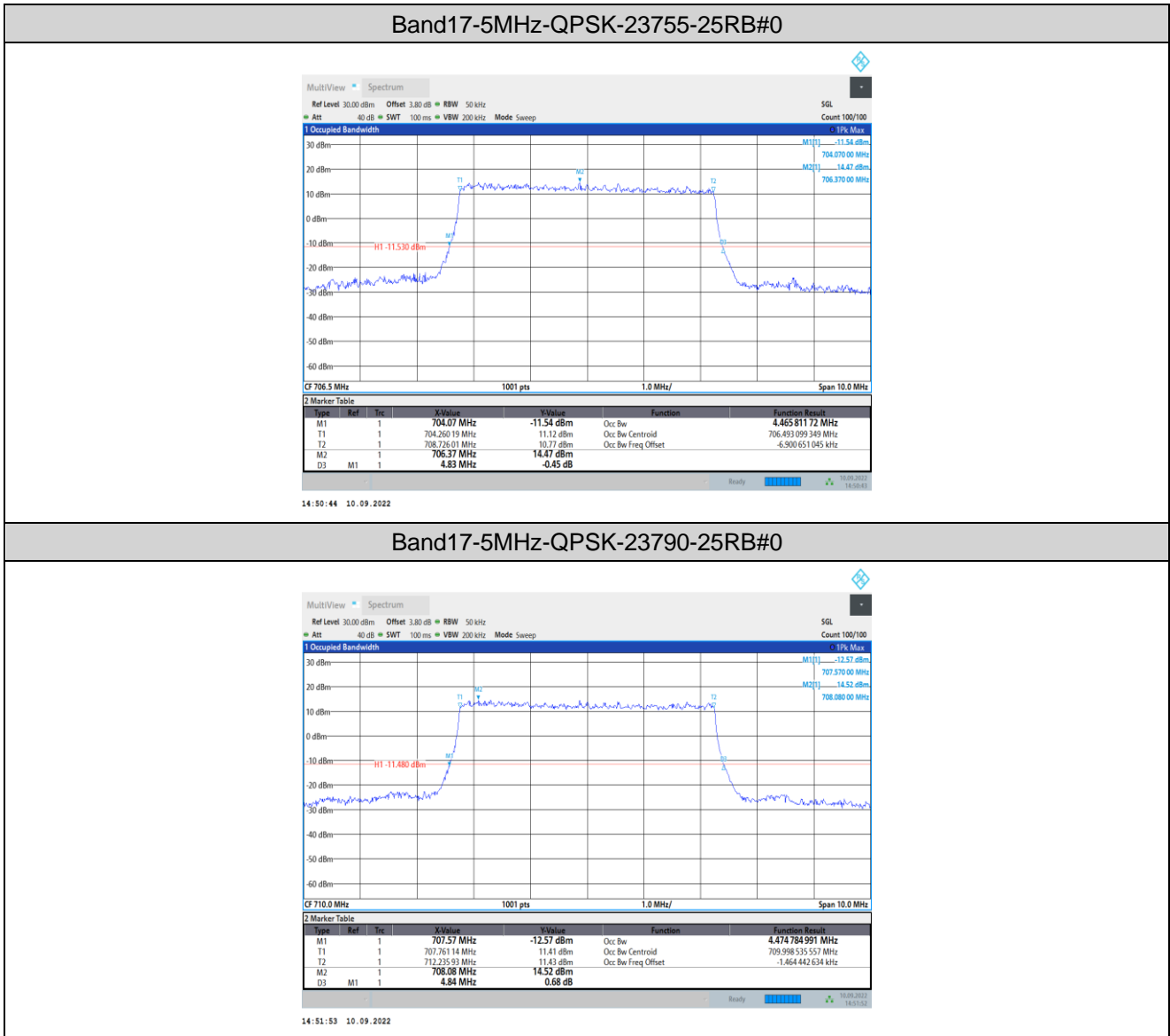


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Test Graphs



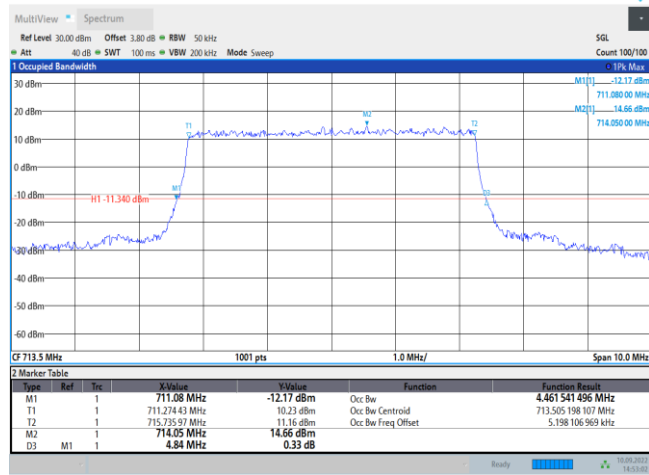
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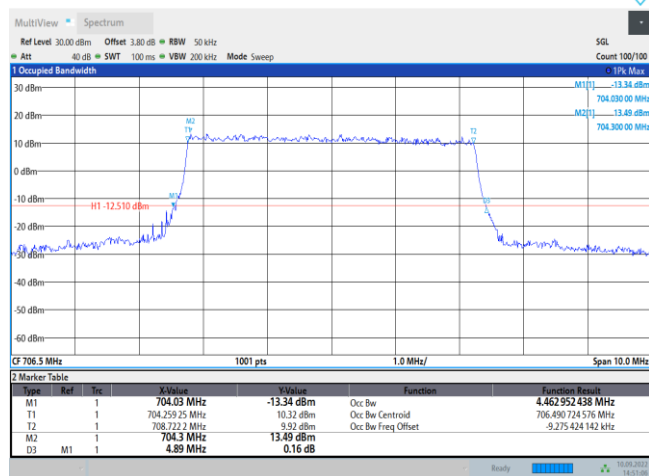
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Band17-5MHz-QPSK-23825-25RB#0



14:53:02 10.09.2022

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



14:51:07 10.09.2022



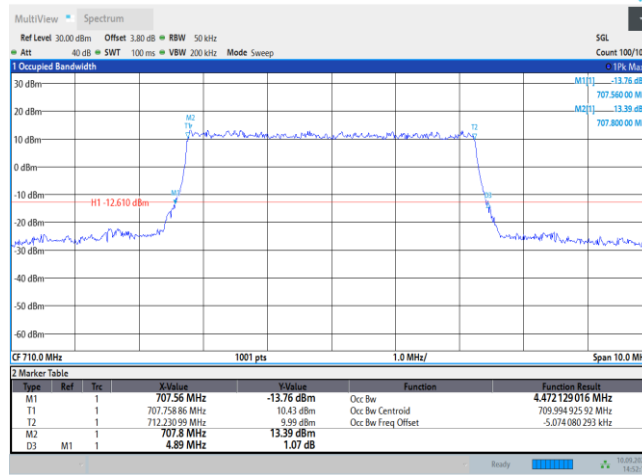
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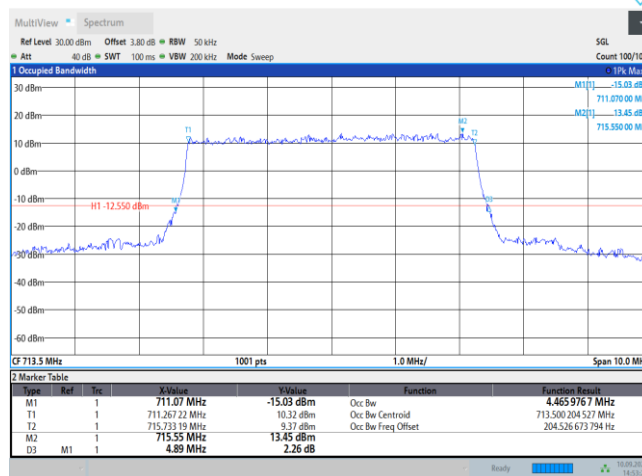
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Band17-5MHz-16QAM-23790-25RB#0



14:52:16 10.09.2022

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



14:53:25 10.09.2022

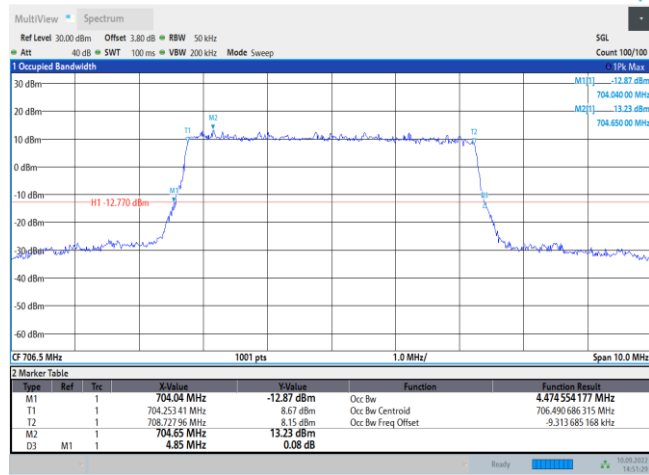


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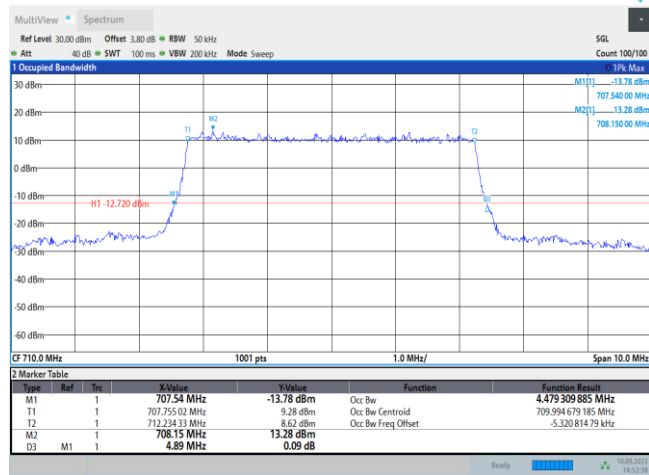
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Band17-5MHz-64QAM-23755-25RB#0



14:51:30 10.09.2022

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



14:52:39 10.09.2022



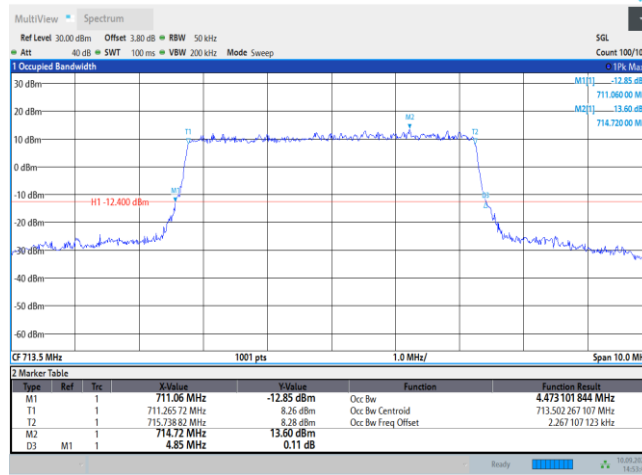
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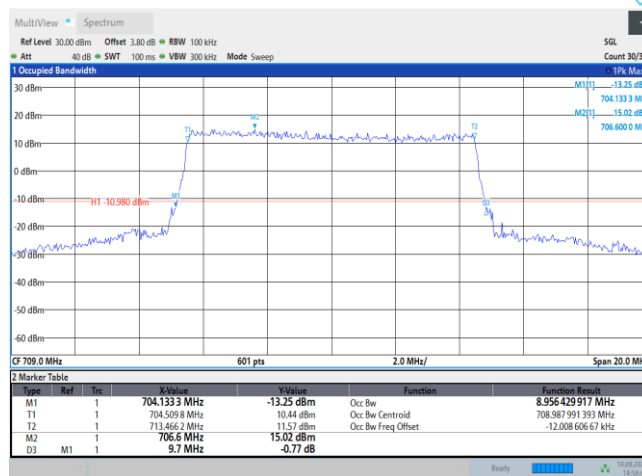
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Band17-5MHz-64QAM-23825-25RB#0



14:53:48 10.09.2022

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



14:56:05 10.09.2022



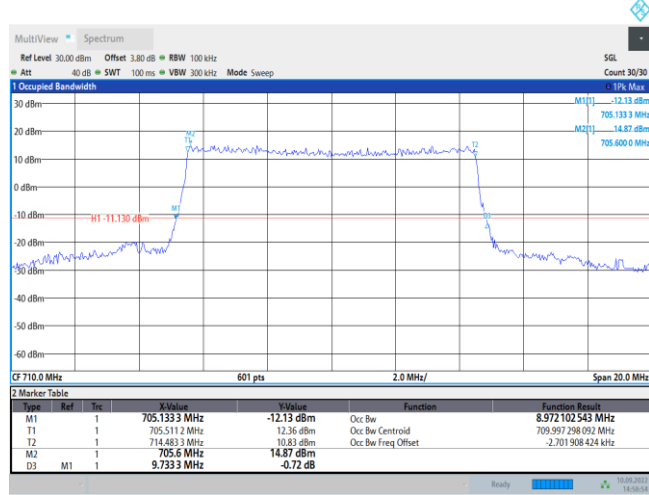
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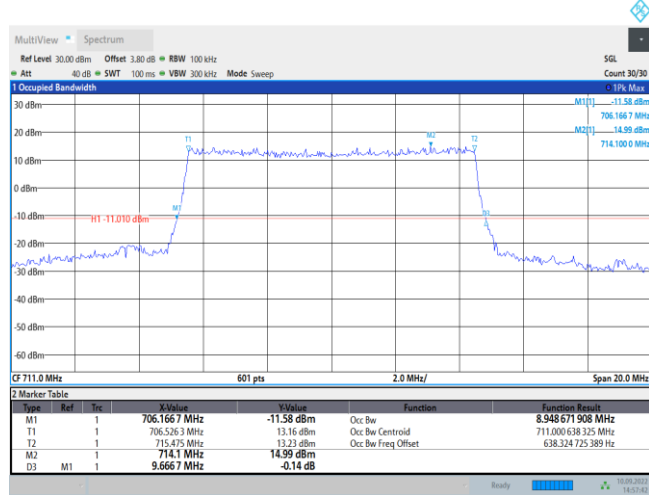
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Band17-10MHz-QPSK-23790-50RB#0



14:56:54 10.09.2022

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



14:57:42 10.09.2022

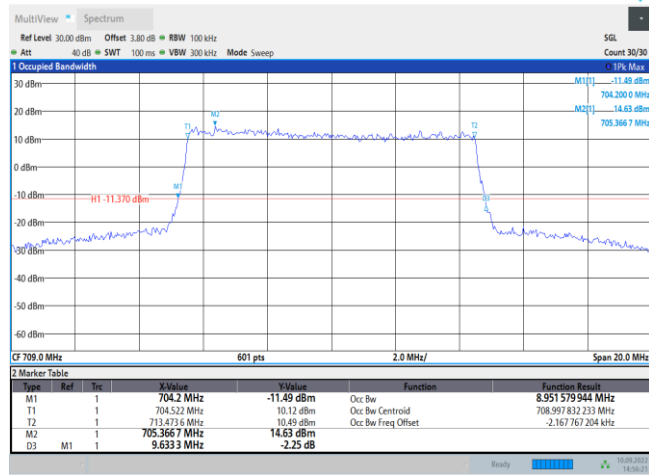


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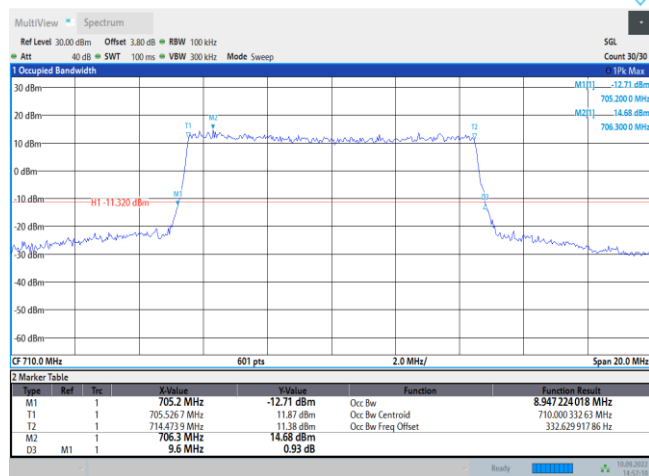
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Band17-10MHz-16QAM-23780-50RB#0



14:56:21 10.09.2022

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



14:57:10 10.09.2022



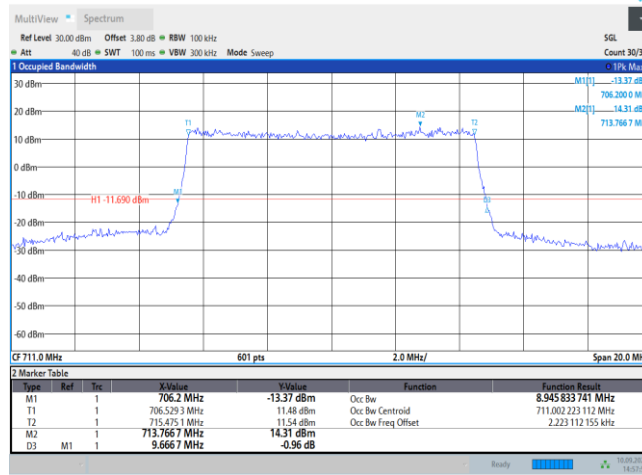
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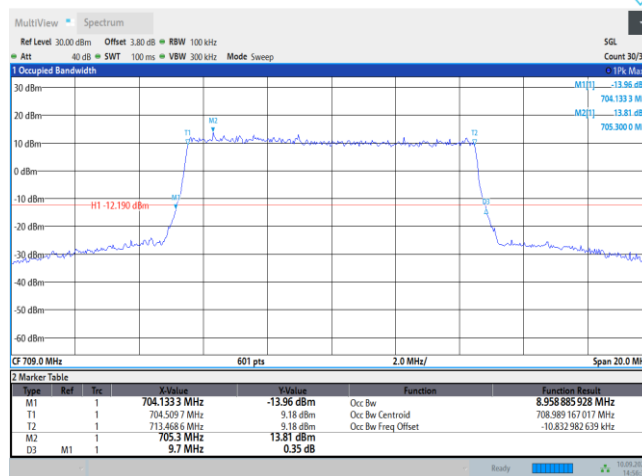
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Band17-10MHz-16QAM-23800-50RB#0



14:57:58 10.09.2022

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



14:56:38 10.09.2022



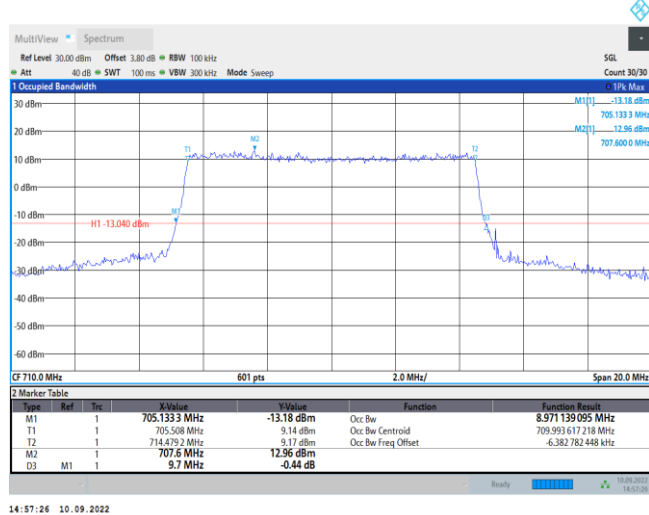
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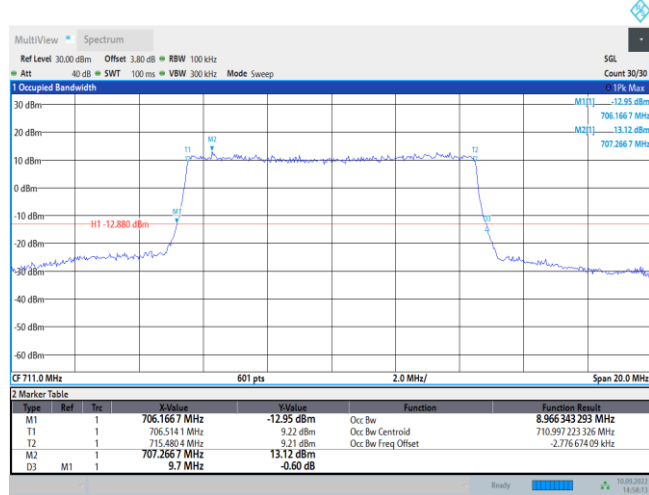
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Band17-10MHz-64QAM-23790-50RB#0



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



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Band Edge

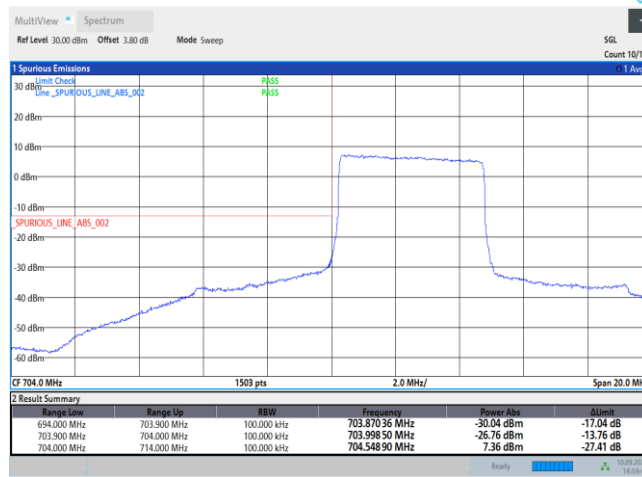
Test Graphs

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



14:59:18 10.09.2022

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



14:59:41 10.09.2022



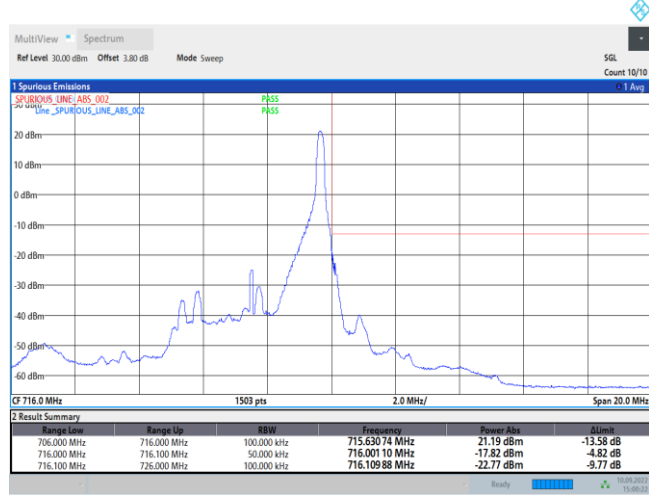
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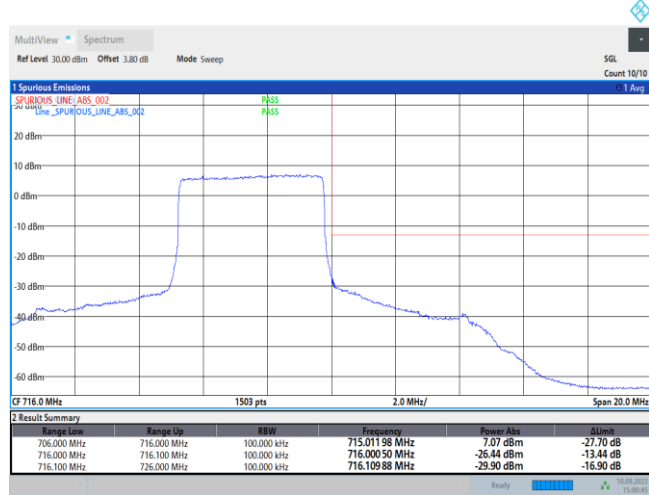
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Band17-5MHz-QPSK-23825-1RB#24



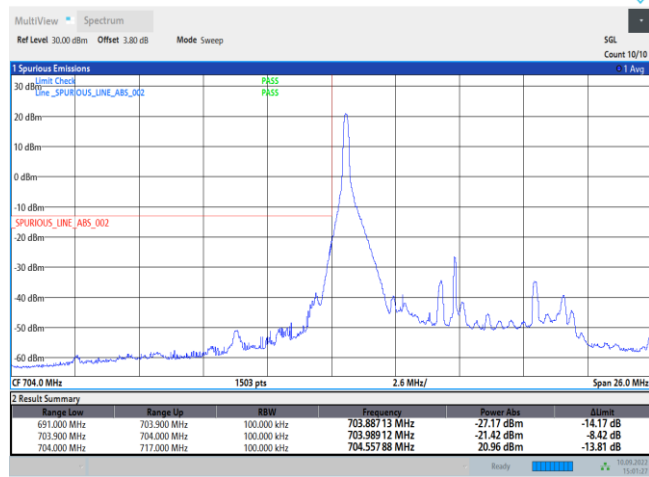
Band17-5MHz-QPSK-23825-25RB#0



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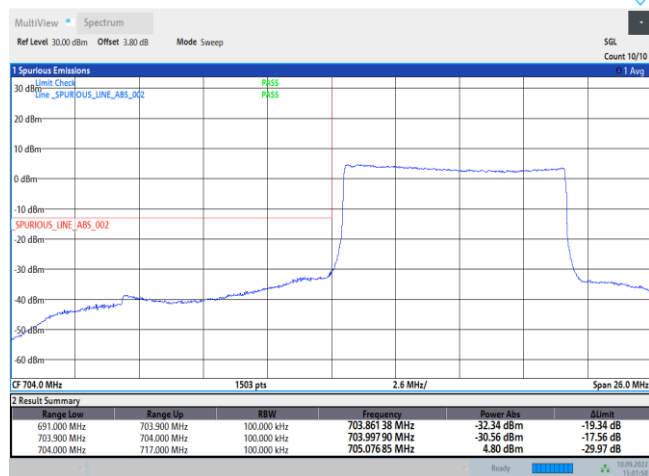
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Band17-10MHz-QPSK-23780-1RB#0



15:01:28 10.09.2022

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



15:01:51 10.09.2022

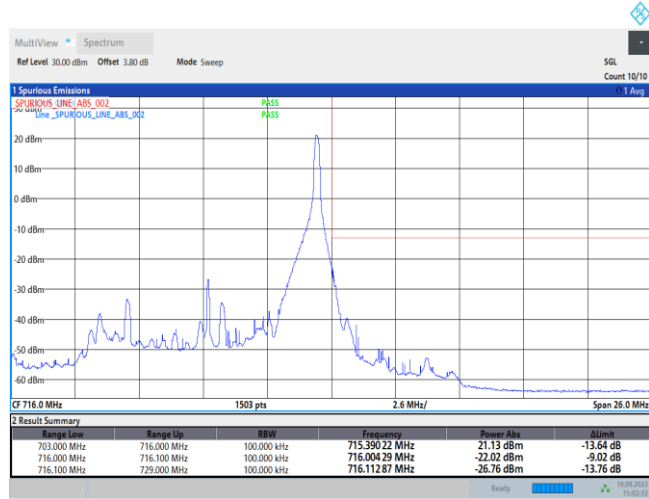


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Band17-10MHz-QPSK-23800-1RB#49



15:02:33 10.09.2022

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



15:02:56 10.09.2022



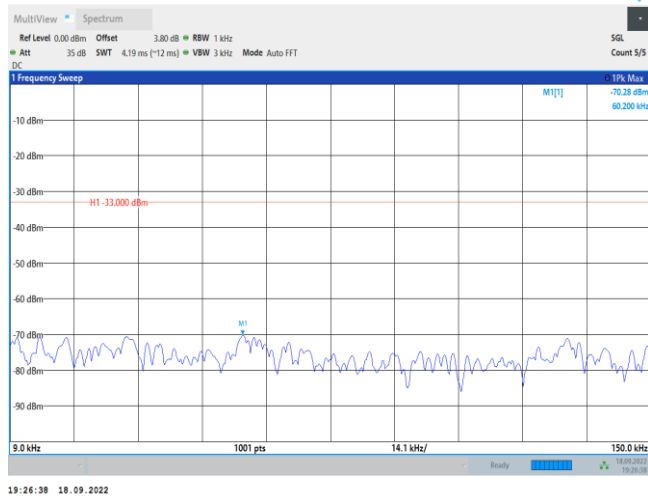
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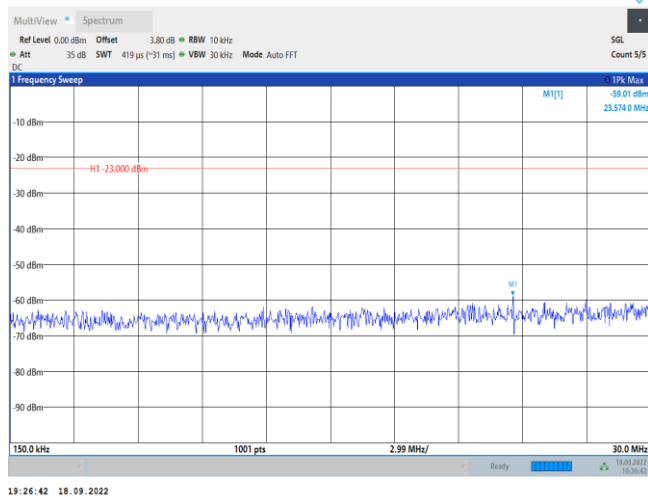
Conducted Spurious Emission

Test Graphs

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



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

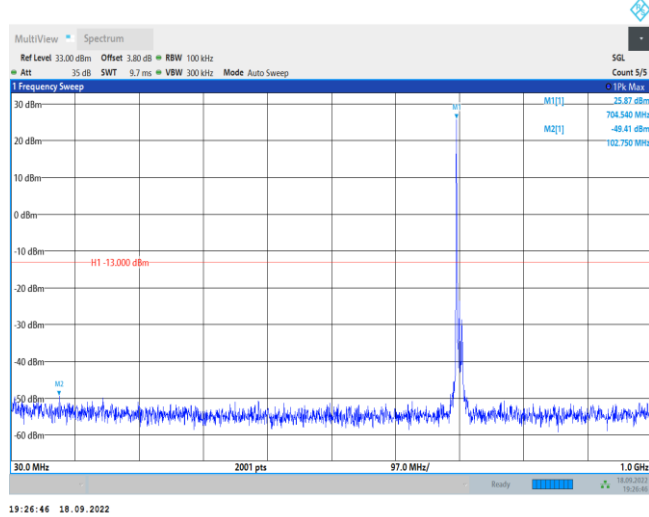


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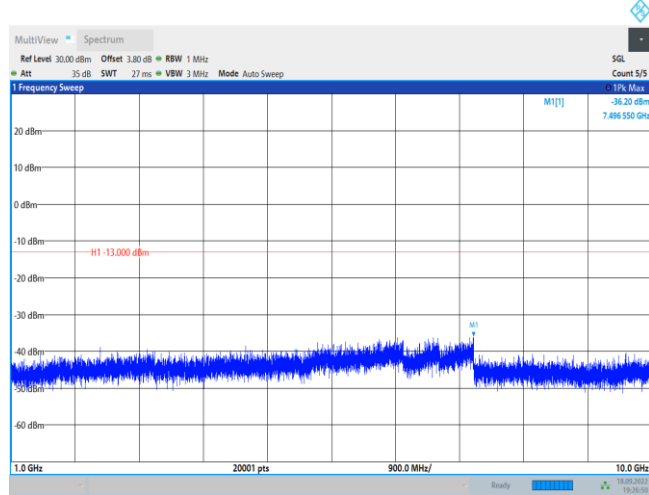
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Band17-10MHz-QPSK-23780-1RB#0-Range3:30~1000MHz



19:26:46 18.09.2022

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



19:26:50 18.09.2022

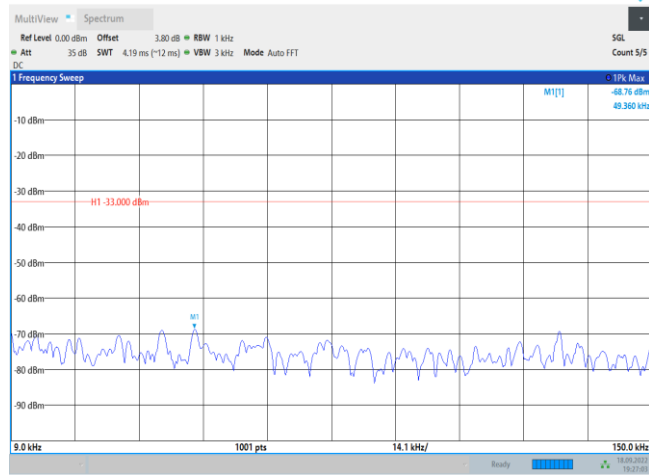


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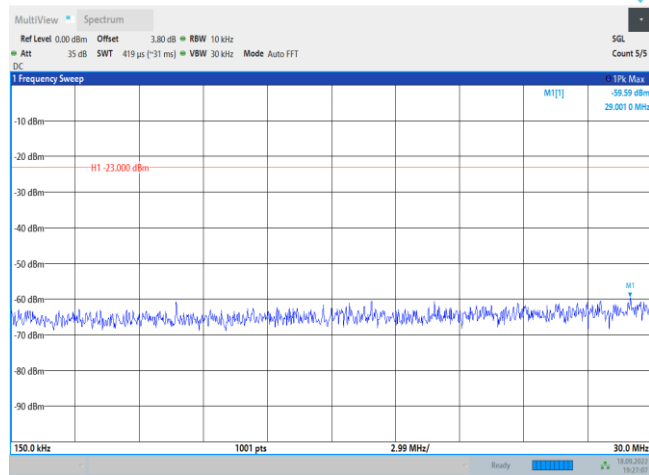
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Band17-10MHz-QPSK-23790-1RB#0-Range1:0.009~0.15MHz



19:27:04 18.09.2022

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



19:27:07 18.09.2022



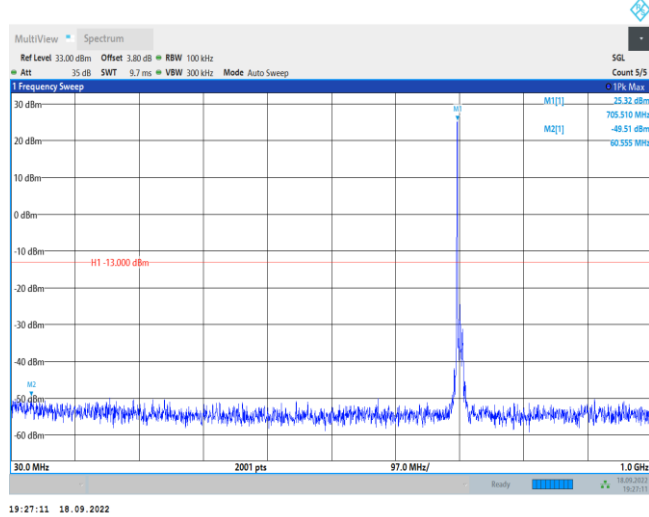
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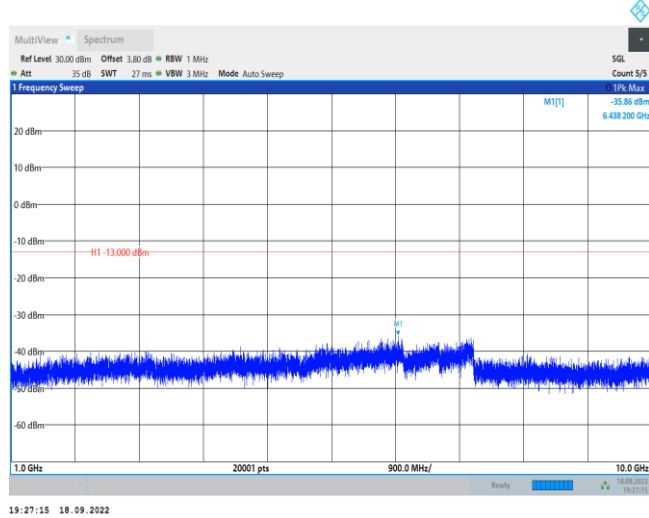
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Band17-10MHz-QPSK-23790-1RB#0-Range3:30~1000MHz



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

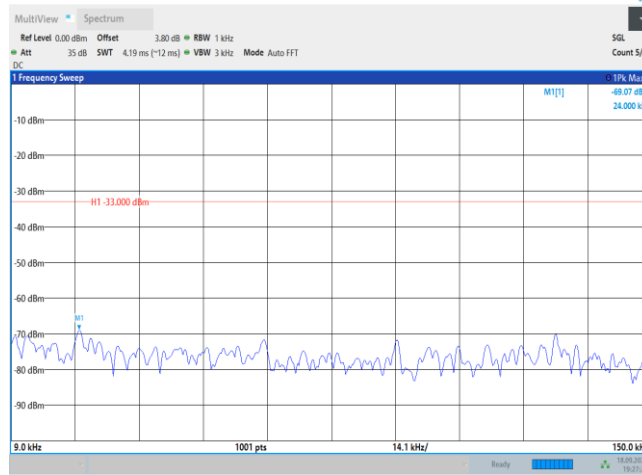


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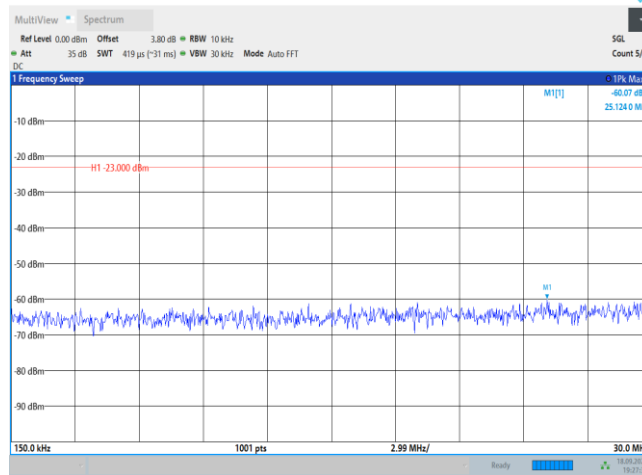
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Band17-10MHz-QPSK-23800-1RB#0-Range1:0.009~0.15MHz



19:27:29 18.09.2022

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



19:27:33 18.09.2022



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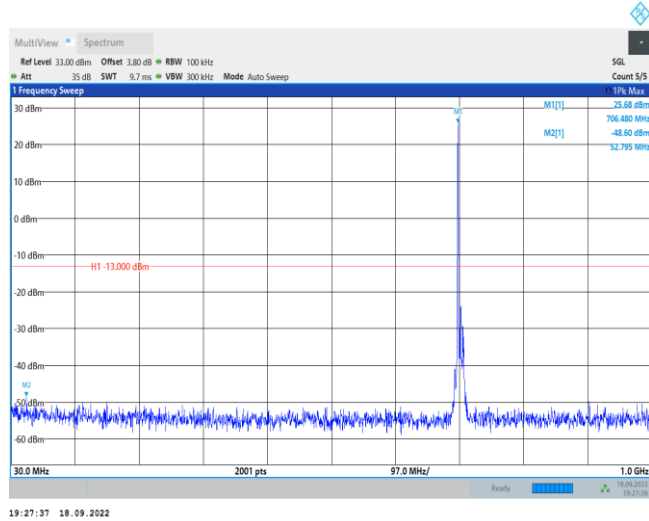
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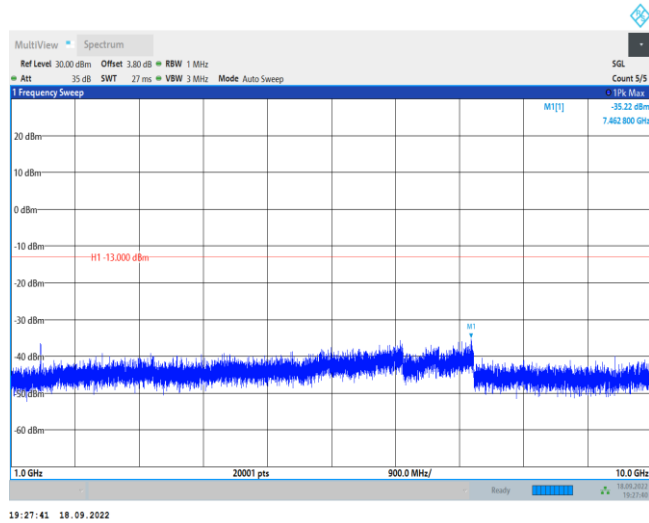
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Band17-10MHz-QPSK-23800-1RB#0-Range3:30~1000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band 17_ TM1
 Test Channel = Low ANT0

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1409.1800	54.51	-48.03	25.61	-63.17	-13.00	50.17	147	160	Horizontal
2	2113.7700	54.94	-47.71	27.04	-60.99	-13.00	47.99	215	309	Horizontal
3	2818.3600	52.46	-46.85	28.56	-61.09	-13.00	48.09	261	160	Horizontal
4	3522.9500	51.71	-46.49	29.54	-60.50	-13.00	47.50	186	335	Horizontal
5	4227.5400	48.54	-45.91	31.16	-61.47	-13.00	48.47	159	335	Horizontal
6	4932.1300	48.65	-45.65	32.69	-59.57	-13.00	46.57	216	9	Horizontal

Test Band = LTE Band 17_ TM1
 Test Channel = Low ANT0

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1409.1800	52.55	-48.03	25.61	-65.13	-13.00	52.13	141	159	Vertical
2	2113.7700	53.87	-47.71	27.04	-62.06	-13.00	49.06	215	278	Vertical
3	2818.3600	50.40	-46.85	28.56	-63.15	-13.00	50.15	223	159	Vertical
4	3522.9500	51.02	-46.49	29.54	-61.19	-13.00	48.19	218	118	Vertical
5	4227.5400	49.50	-45.91	31.16	-60.51	-13.00	47.51	276	318	Vertical
6	4932.1300	48.61	-45.65	32.69	-59.61	-13.00	46.61	225	356	Vertical



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Test Band = LTE Band 17_ TM1
Test Channel = Middle ANT0

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1409.1800	51.18	-48.03	25.61	-66.50	-13.00	53.50	214	227	Horizontal
2	2113.7700	51.52	-47.71	27.04	-64.41	-13.00	51.41	163	213	Horizontal
3	2818.3600	50.71	-46.85	28.56	-62.84	-13.00	49.84	158	213	Horizontal
4	3522.9500	50.40	-46.49	29.54	-61.81	-13.00	48.81	172	293	Horizontal
5	4227.5400	50.63	-45.91	31.16	-59.38	-13.00	46.38	196	25	Horizontal
6	4932.1300	49.52	-45.65	32.69	-58.70	-13.00	45.70	256	25	Horizontal

Test Band = LTE Band 17_ TM1
Test Channel = Middle ANT0

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1409.1800	51.77	-48.03	25.61	-65.91	-13.00	52.91	131	3	Vertical
2	2113.7700	50.50	-47.71	27.04	-65.43	-13.00	52.43	152	106	Vertical
3	2818.3600	50.95	-46.85	28.56	-62.60	-13.00	49.60	174	3	Vertical
4	3522.9500	50.22	-46.49	29.54	-61.99	-13.00	48.99	165	360	Vertical
5	4227.5400	48.83	-45.91	31.16	-61.18	-13.00	48.18	143	359	Vertical
6	4932.1300	49.16	-45.65	32.69	-59.06	-13.00	46.06	216	25	Vertical



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

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1409.1800	50.60	-48.03	25.61	-67.08	-13.00	54.08	159	212	Horizontal
2	2113.7700	50.57	-47.71	27.04	-65.36	-13.00	52.36	216	356	Horizontal
3	2818.3600	51.10	-46.85	28.56	-62.45	-13.00	49.45	224	0	Horizontal
4	3522.9500	49.79	-46.49	29.54	-62.42	-13.00	49.42	234	132	Horizontal
5	4227.5400	48.71	-45.91	31.16	-61.30	-13.00	48.30	257	319	Horizontal
6	4932.1300	48.92	-45.65	32.69	-59.30	-13.00	46.30	261	118	Horizontal

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

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1409.1800	51.51	-48.03	25.61	-66.17	-13.00	53.17	146	40	Vertical
2	2113.7700	50.28	-47.71	27.04	-65.65	-13.00	52.65	214	26	Vertical
3	2818.3600	50.91	-46.85	28.56	-62.64	-13.00	49.64	223	159	Vertical
4	3522.9500	50.49	-46.49	29.54	-61.72	-13.00	48.72	181	133	Vertical
5	4227.5400	49.63	-45.91	31.16	-60.38	-13.00	47.38	195	252	Vertical
6	4932.1300	49.76	-45.65	32.69	-58.46	-13.00	45.46	164	3	Vertical



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Test Band = LTE Band 17_ TM1
Test Channel = Low ANT1

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1409.1800	55.11	-48.03	25.61	-62.57	-13.00	49.57	244	151	Horizontal
2	2113.7700	58.11	-47.71	27.04	-57.82	-13.00	44.82	213	1	Horizontal
3	2818.3600	51.57	-46.85	28.56	-61.98	-13.00	48.98	251	58	Horizontal
4	3522.9500	51.78	-46.49	29.54	-60.43	-13.00	47.43	264	335	Horizontal
5	4227.5400	49.00	-45.91	31.16	-61.01	-13.00	48.01	283	1	Horizontal
6	4932.1300	49.54	-45.65	32.69	-58.68	-13.00	45.68	189	0	Horizontal

Test Band = LTE Band 17_ TM1
Test Channel = Low ANT1

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1409.1800	52.42	-48.03	25.61	-65.26	-13.00	52.26	255	264	Vertical
2	2113.7700	54.61	-47.71	27.04	-61.32	-13.00	48.32	241	289	Vertical
3	2818.3600	50.77	-46.85	28.56	-62.78	-13.00	49.78	234	25	Vertical
4	3522.9500	51.63	-46.49	29.54	-60.58	-13.00	47.58	273	316	Vertical
5	4227.5400	49.36	-45.91	31.16	-60.65	-13.00	47.65	168	212	Vertical
6	4932.1300	49.40	-45.65	32.69	-58.82	-13.00	45.82	196	276	Vertical



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Test Band = LTE Band 17_ TM1
Test Channel = Middle ANT1

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1409.1800	50.69	-48.03	25.61	-66.99	-13.00	53.99	134	93	Horizontal
2	2113.7700	51.20	-47.71	27.04	-64.73	-13.00	51.73	129	53	Horizontal
3	2818.3600	51.37	-46.85	28.56	-62.18	-13.00	49.18	156	307	Horizontal
4	3522.9500	49.87	-46.49	29.54	-62.34	-13.00	49.34	216	320	Horizontal
5	4227.5400	48.86	-45.91	31.16	-61.15	-13.00	48.15	237	173	Horizontal
6	4932.1300	48.24	-45.65	32.69	-59.98	-13.00	46.98	255	214	Horizontal

Test Band = LTE Band 17_ TM1
Test Channel = Middle ANT1

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1409.1800	52.12	-48.03	25.61	-65.56	-13.00	52.56	216	359	Vertical
2	2113.7700	51.24	-47.71	27.04	-64.69	-13.00	51.69	257	310	Vertical
3	2818.3600	51.45	-46.85	28.56	-62.10	-13.00	49.10	162	360	Vertical
4	3522.9500	50.83	-46.49	29.54	-61.38	-13.00	48.38	149	310	Vertical
5	4227.5400	49.45	-45.91	31.16	-60.56	-13.00	47.56	237	257	Vertical
6	4932.1300	49.82	-45.65	32.69	-58.40	-13.00	45.40	246	338	Vertical



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Test Band = LTE Band 17_ TM1
Test Channel = High ANT1

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1409.1800	51.72	-48.03	25.61	-65.96	-13.00	52.96	252	146	Horizontal
2	2113.7700	50.37	-47.71	27.04	-65.56	-13.00	52.56	241	92	Horizontal
3	2818.3600	50.30	-46.85	28.56	-63.25	-13.00	50.25	263	118	Horizontal
4	3522.9500	51.38	-46.49	29.54	-60.83	-13.00	47.83	186	159	Horizontal
5	4227.5400	48.80	-45.91	31.16	-61.21	-13.00	48.21	179	105	Horizontal
6	4932.1300	48.80	-45.65	32.69	-59.42	-13.00	46.42	164	186	Horizontal

Test Band = LTE Band 17_ TM1
Test Channel = High ANT1

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1409.1800	51.50	-48.03	25.61	-66.18	-13.00	53.18	233	40	Vertical
2	2113.7700	50.88	-47.71	27.04	-65.05	-13.00	52.05	262	200	Vertical
3	2818.3600	50.61	-46.85	28.56	-62.94	-13.00	49.94	156	335	Vertical
4	3522.9500	50.05	-46.49	29.54	-62.16	-13.00	49.16	179	357	Vertical
5	4227.5400	48.52	-45.91	31.16	-61.49	-13.00	48.49	215	4	Vertical
6	4932.1300	48.68	-45.65	32.69	-59.54	-13.00	46.54	244	214	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



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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	-3.50	-0.004930	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	-3.20	-0.004507	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	-0.30	-0.000423	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	-2.40	-0.003380	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	-2.00	-0.002817	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	-2.70	-0.003803	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	-0.20	-0.000282	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	-2.90	-0.004085	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	-2.80	-0.003944	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	-0.60	-0.000845	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	-2.70	-0.003803	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	-3.80	-0.005352	PASS

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