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# 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	23.86	23.91	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.88	23.93	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.91	23.96	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	23.02	23.07	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.90	23.95	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.80	23.85	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.88	23.93	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	23.01	23.06	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.89	23.94	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.78	23.83	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.85	23.9	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.96	23.01	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	23.08	23.13	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	23.08	23.13	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	23.16	23.21	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	22.01	22.06	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	23.16	23.21	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	23.13	23.18	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	23.08	23.13	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	22.00	22.05	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	23.11	23.16	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	23.03	23.08	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	23.16	23.21	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.97	22.02	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	22.16	22.21	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	22.17	22.22	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	22.19	22.24	34.77	PASS



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Band17	5MHz	64QAM	23755	25RB#0	20.97	21.02	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	22.19	22.24	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	22.25	22.3	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	22.15	22.2	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	20.96	21.01	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	22.17	22.22	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	22.15	22.2	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	22.15	22.2	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	20.95	21	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.83	23.88	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.98	24.03	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.79	23.84	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.98	23.03	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.90	23.95	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.86	23.91	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.72	23.77	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.92	22.97	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.88	23.93	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.75	23.8	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.69	23.74	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.97	23.02	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	23.14	23.19	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	23.13	23.18	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	23.17	23.22	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.89	21.94	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	23.30	23.35	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	23.15	23.2	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	23.19	23.24	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.93	21.98	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	23.32	23.37	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	23.20	23.25	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	23.26	23.31	34.77	PASS



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Band17	10MHz	16QAM	23800	50RB#0	21.92	21.97	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	22.10	22.15	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	22.02	22.07	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	22.18	22.23	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	20.92	20.97	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	22.11	22.16	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	22.03	22.08	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	22.00	22.05	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	20.95	21	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	22.15	22.2	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	22.13	22.18	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	21.97	22.02	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	20.99	21.04	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	5.26	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.14	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.08	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.10	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.06	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	5.98	13	PASS
Band17	10MHz	64QAM	23780	50RB#0	6.50	13	PASS
Band17	10MHz	64QAM	23790	50RB#0	6.46	13	PASS
Band17	10MHz	64QAM	23800	50RB#0	6.42	13	PASS



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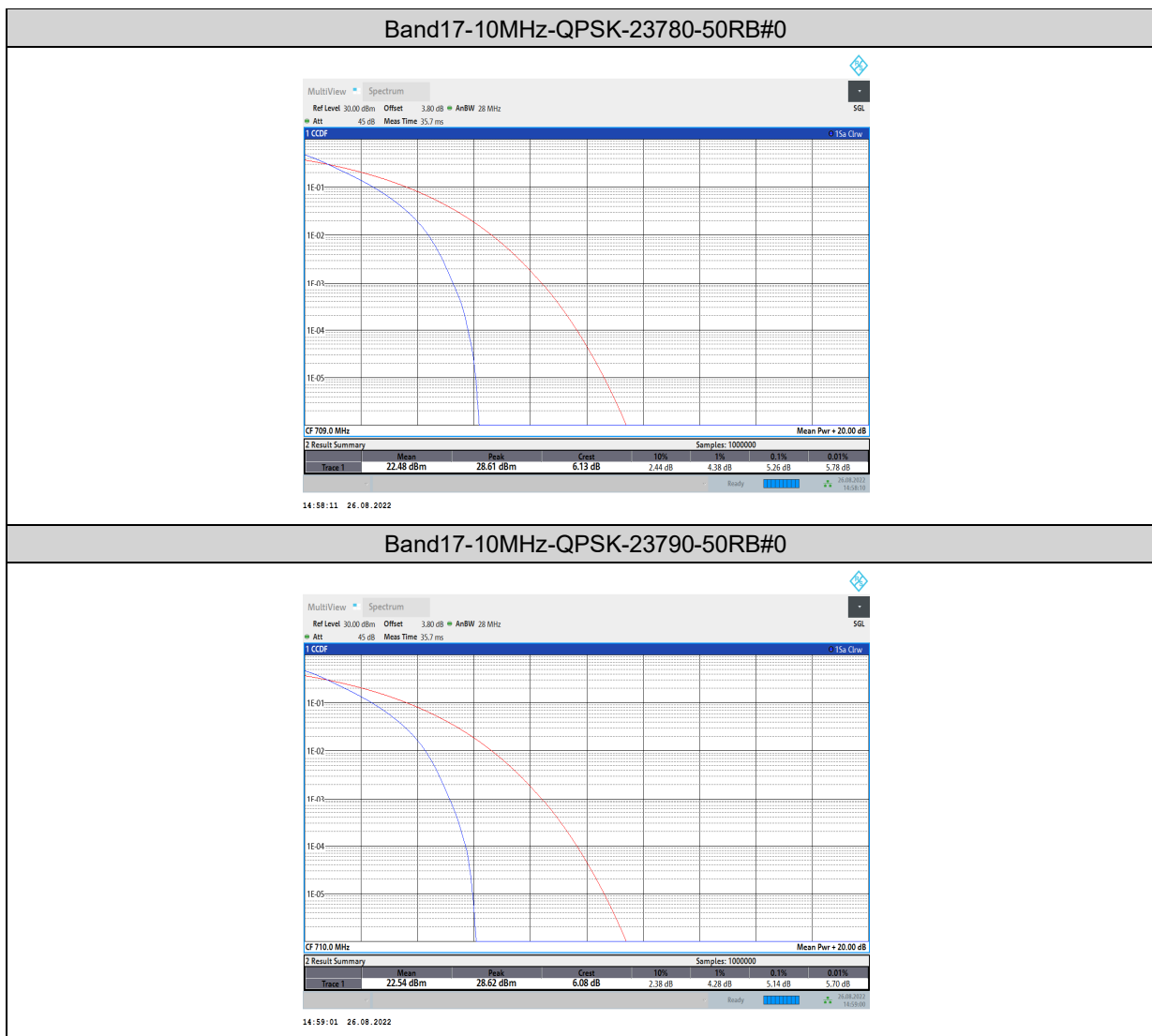
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### Test Graphs



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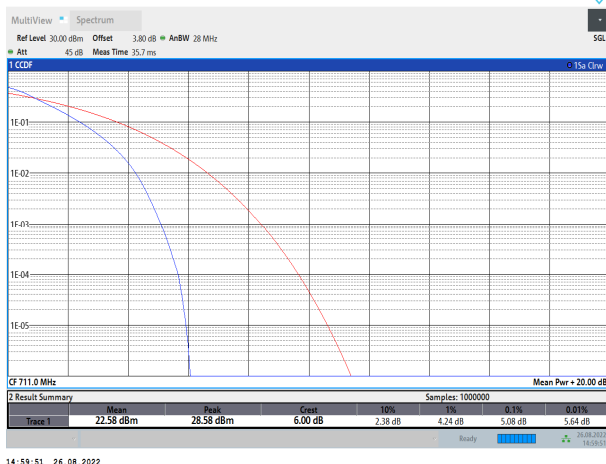


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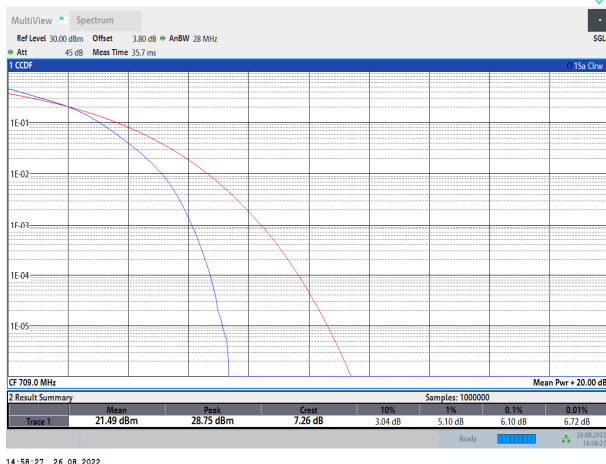
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### Band17-10MHz-QPSK-23800-50RB#0



14:59:51 26.08.2022

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



14:58:27 26.08.2022



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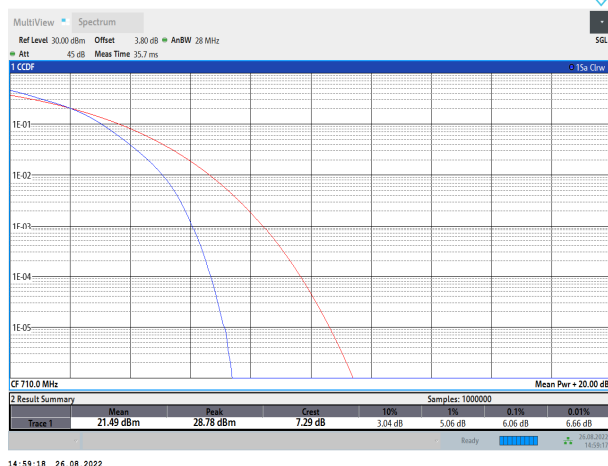
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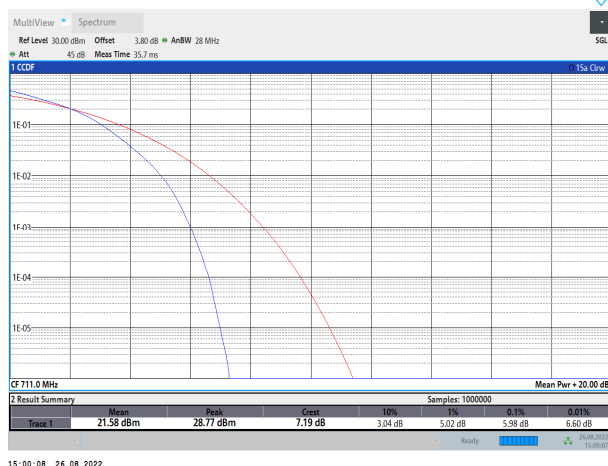
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### Band17-10MHz-16QAM-23790-50RB#0



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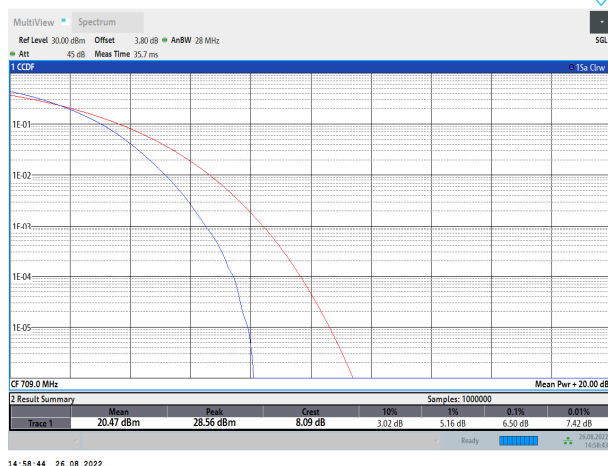


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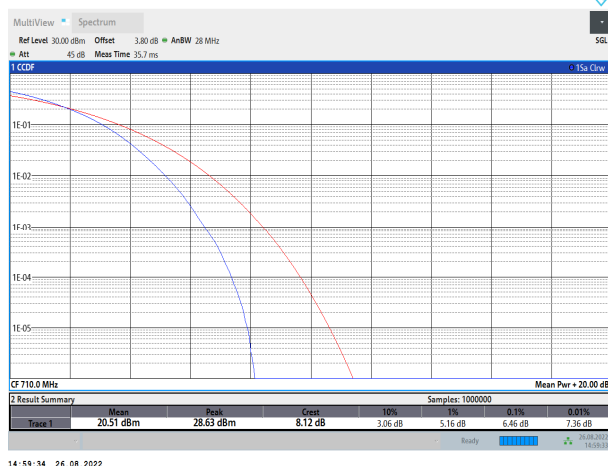
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### Band17-10MHz-64QAM-23790-50RB#0



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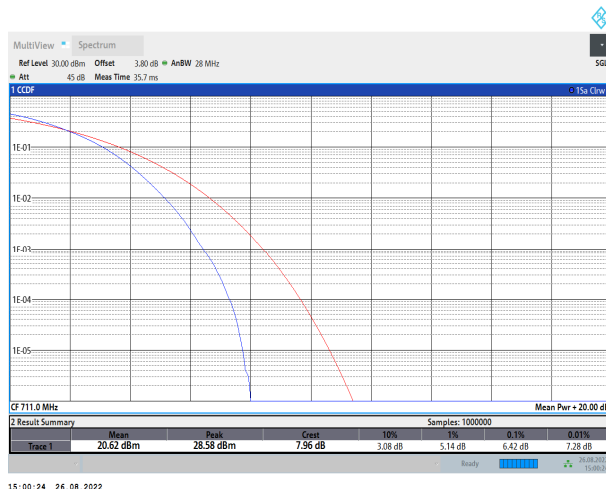
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### Band17-10MHz-64QAM-23800-50RB#0



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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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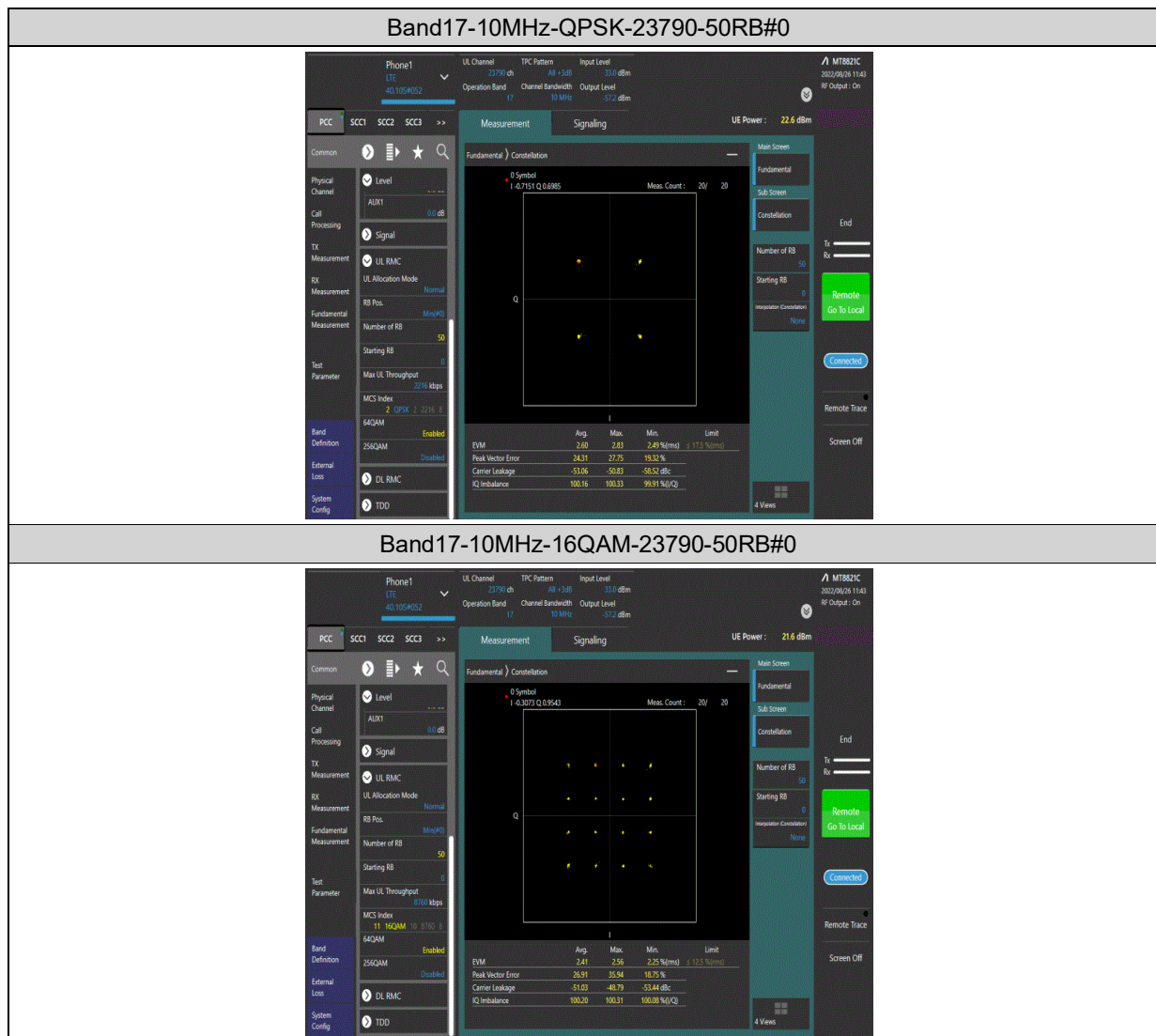
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### Test Graphs



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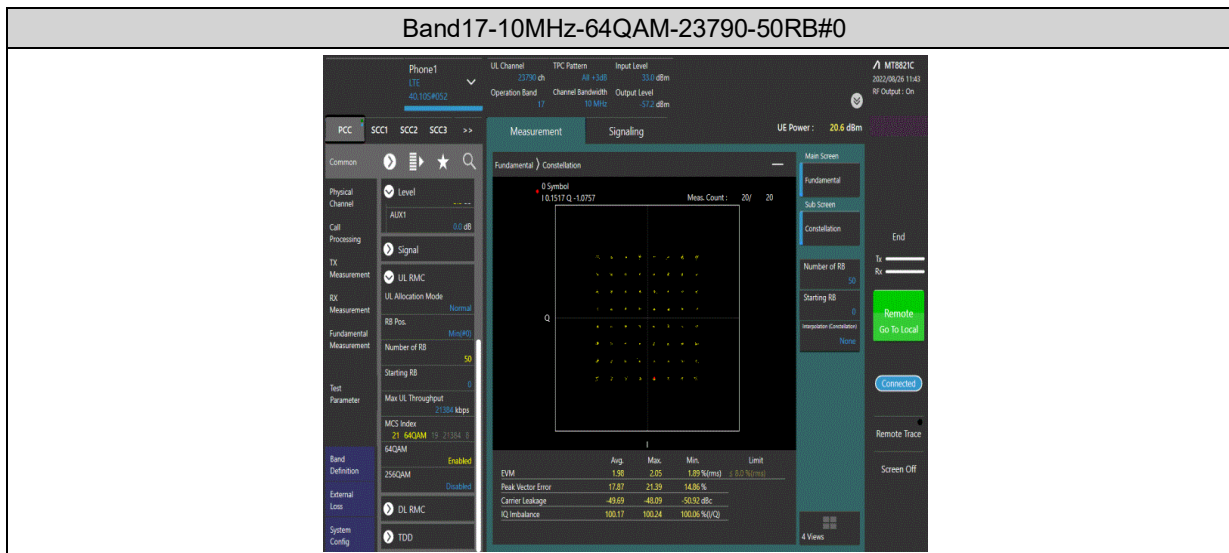
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### Band17-10MHz-64QAM-23790-50RB#0



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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	23755	25RB#0	4.469	4.88	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.468	4.87	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.462	4.89	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.467	4.88	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.468	4.91	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.463	4.90	PASS
Band17	5MHz	64QAM	23755	25RB#0	4.475	4.90	PASS
Band17	5MHz	64QAM	23790	25RB#0	4.473	4.90	PASS
Band17	5MHz	64QAM	23825	25RB#0	4.472	4.91	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.932	9.63	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.913	9.67	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.923	9.63	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.909	9.63	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.91	9.63	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.912	9.60	PASS
Band17	10MHz	64QAM	23780	50RB#0	8.918	9.63	PASS
Band17	10MHz	64QAM	23790	50RB#0	8.923	9.67	PASS
Band17	10MHz	64QAM	23800	50RB#0	8.918	9.67	PASS



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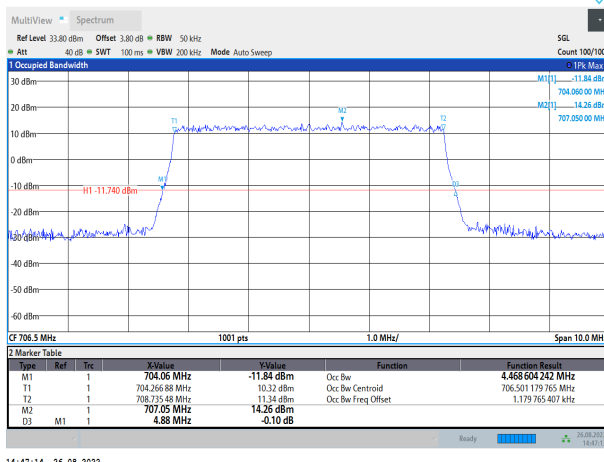
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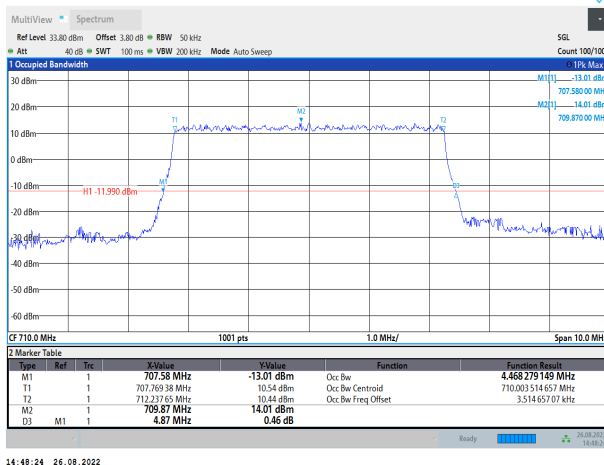
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### Test Graphs

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



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



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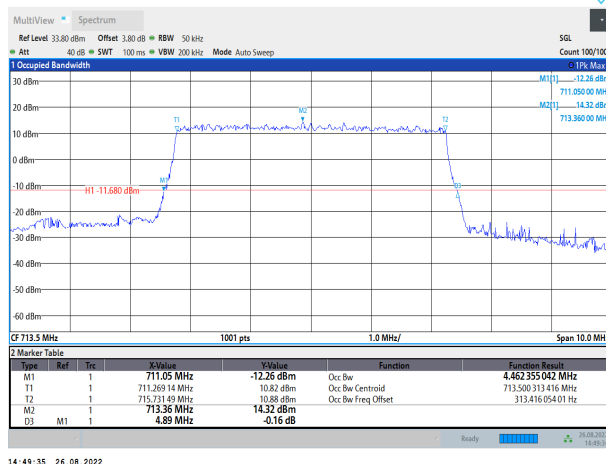
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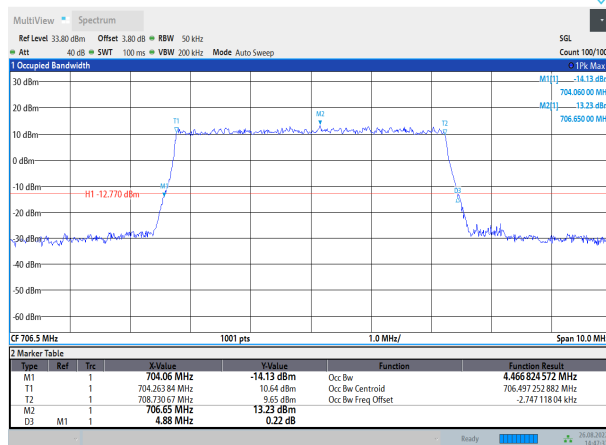
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### Band17-5MHz-QPSK-23825-25RB#0



14:49:35 26.08.2022

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



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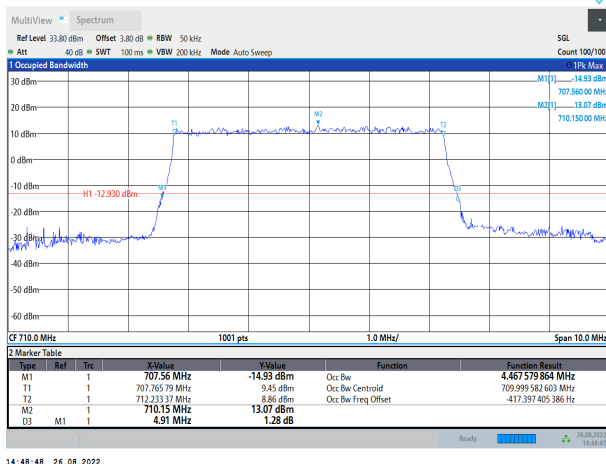
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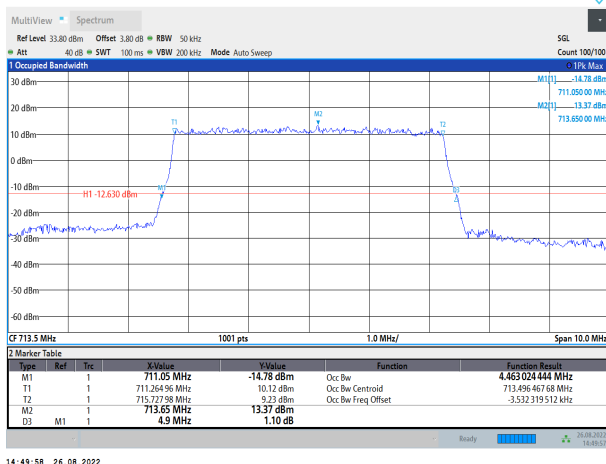
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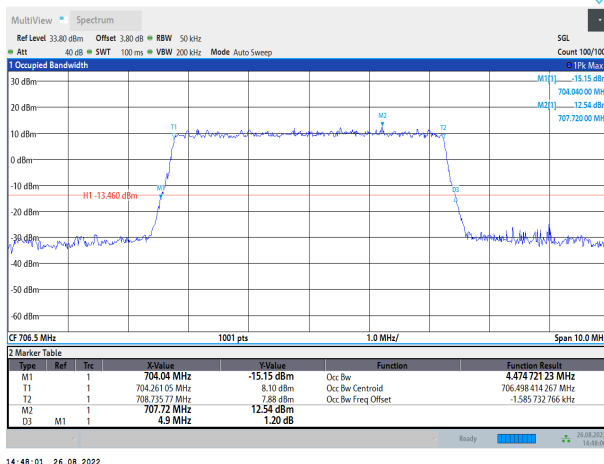
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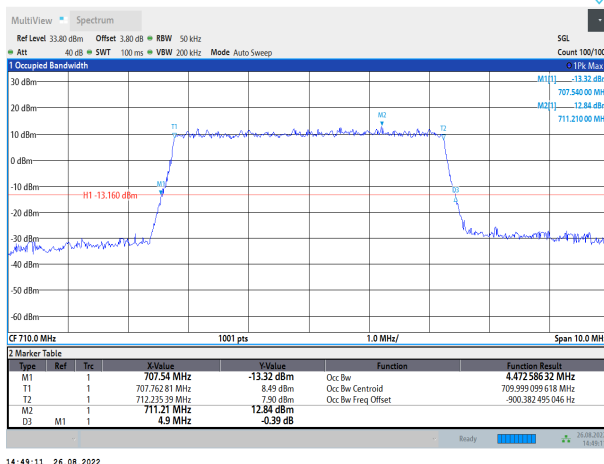
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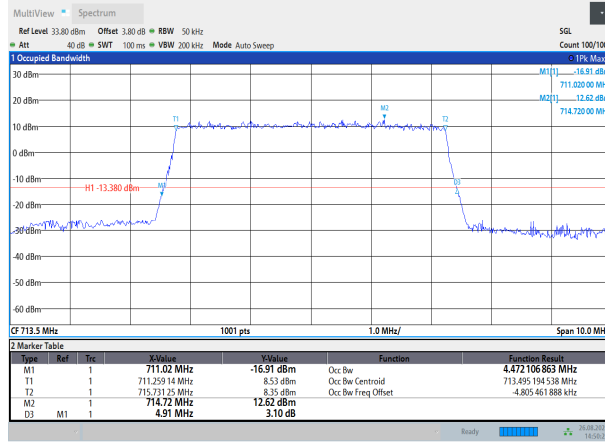
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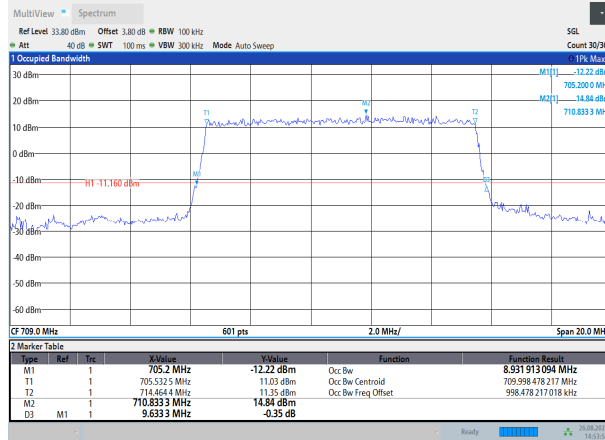
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### Band17-10MHz-QPSK-23780-50RB#0



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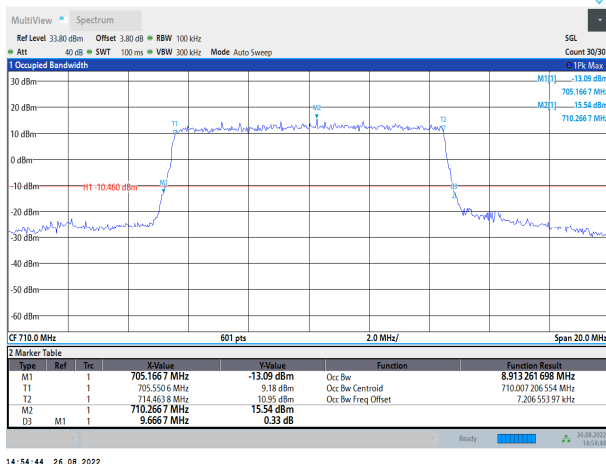
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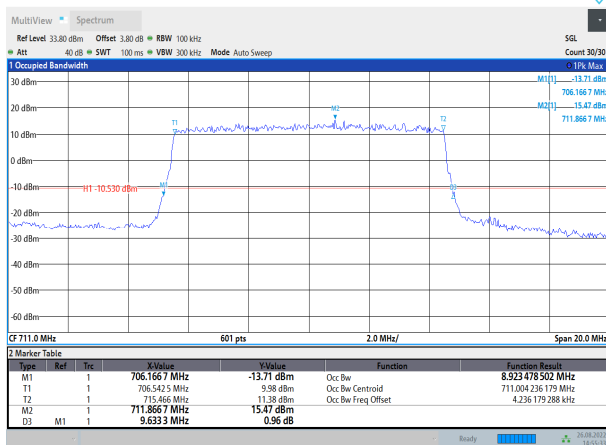
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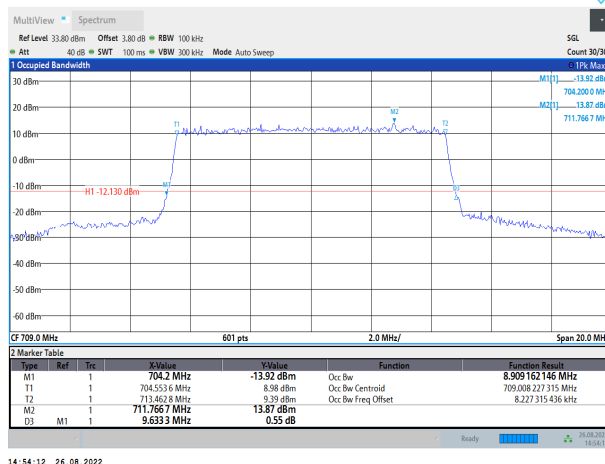


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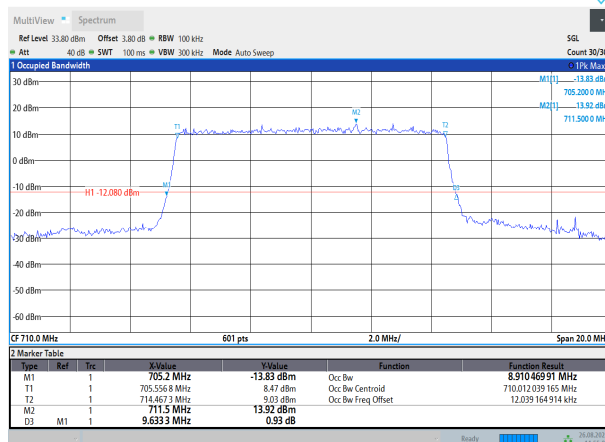
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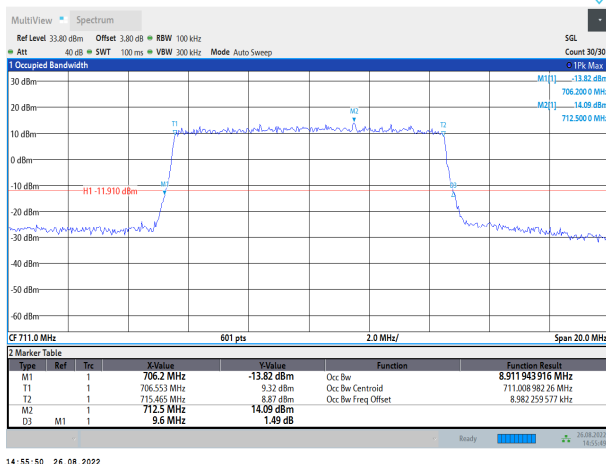
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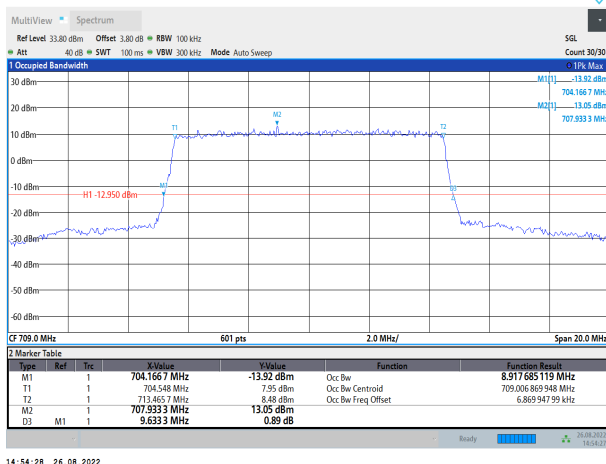
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### Band17-10MHz-16QAM-23800-50RB#0



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



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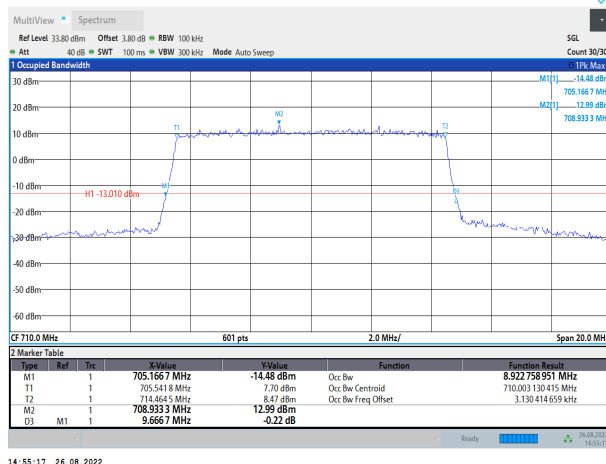
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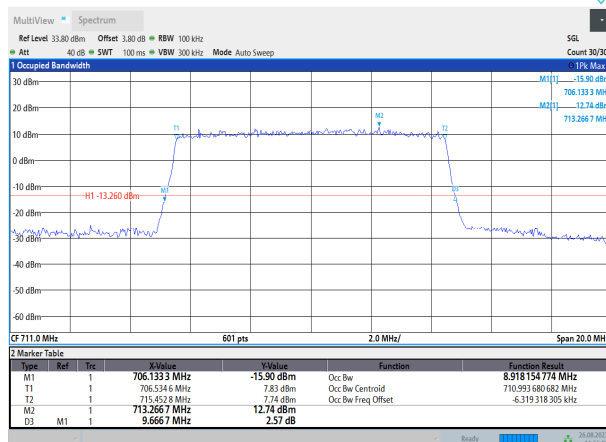
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### Band17-10MHz-64QAM-23790-50RB#0



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



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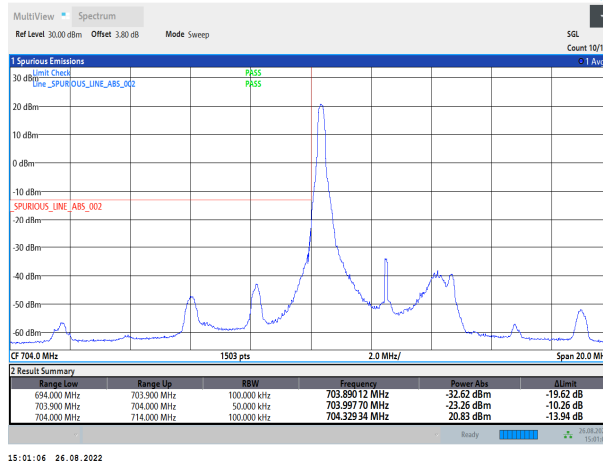
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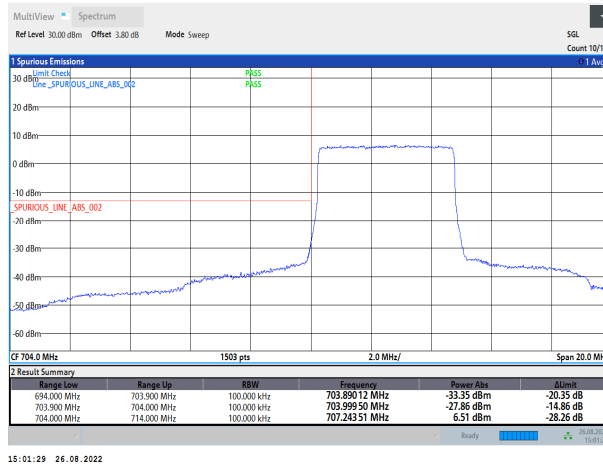
### Band Edge

### Test Graphs

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



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



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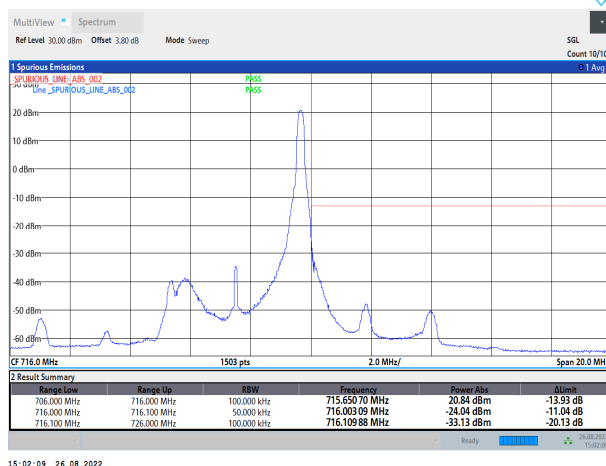
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### Band17-5MHz-QPSK-23825-1RB#24



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



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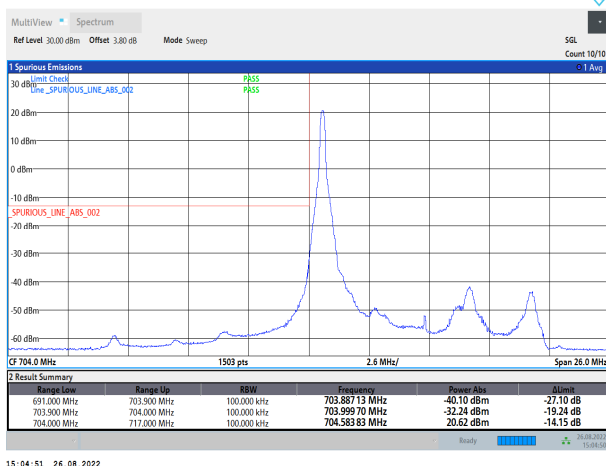
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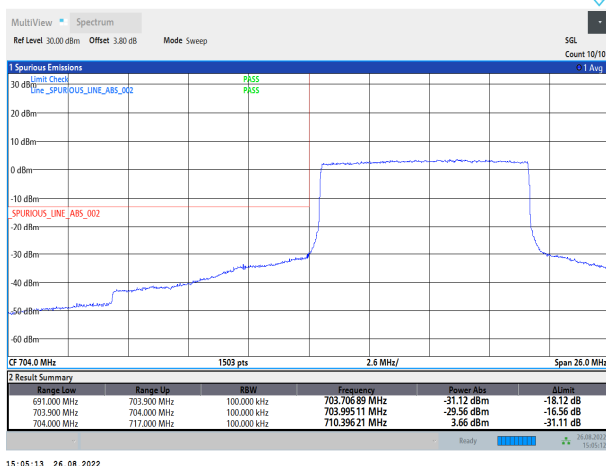
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### Band17-10MHz-QPSK-23780-1RB#0



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



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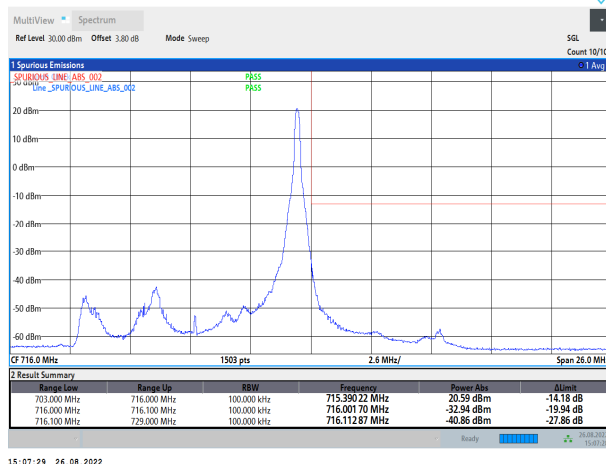


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### Band17-10MHz-QPSK-23800-1RB#49



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



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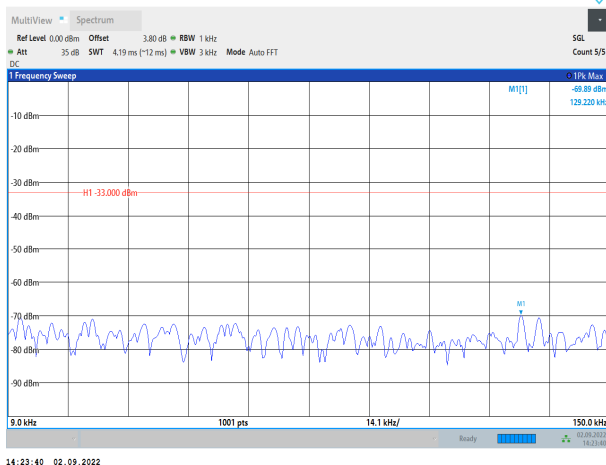
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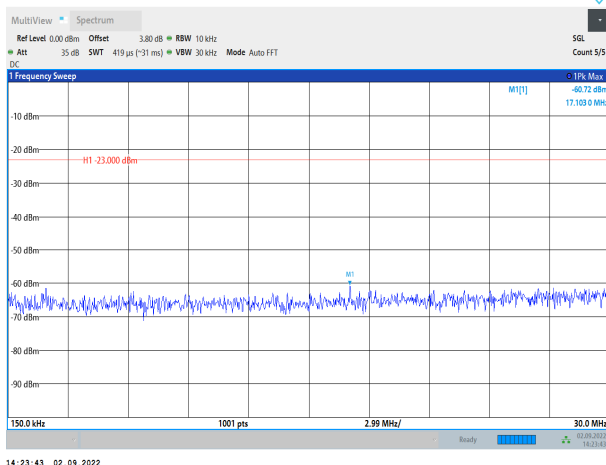
### Conducted Spurious Emission

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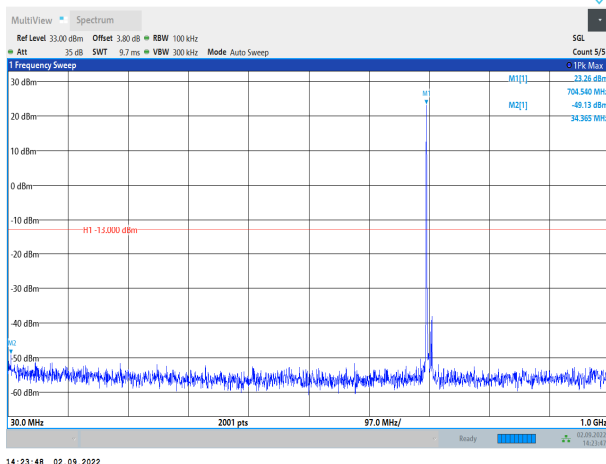
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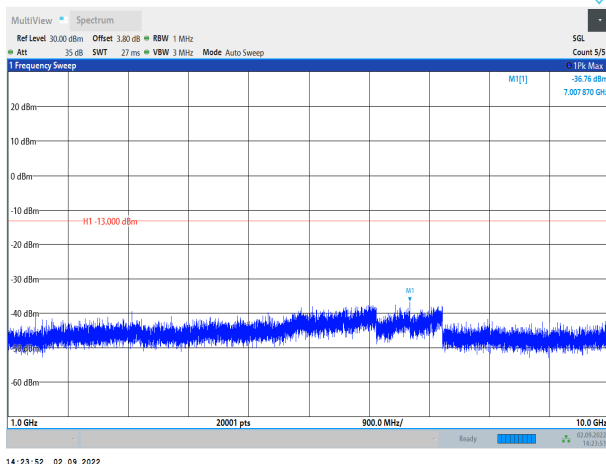
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### Band17-10MHz-QPSK-23780-1RB#0-Range3:30~1000MHz



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



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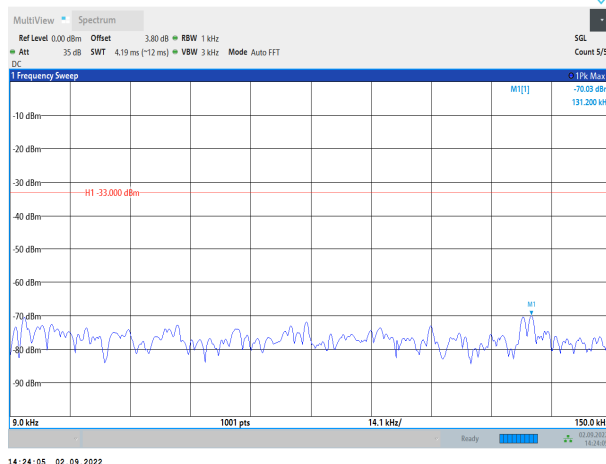
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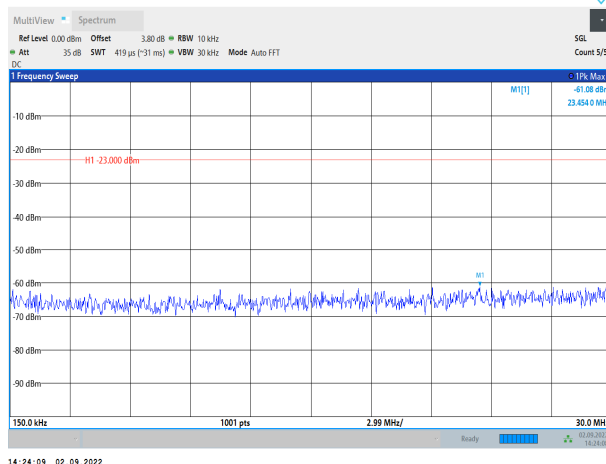
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### Band17-10MHz-QPSK-23790-1RB#0-Range1:0.009~0.15MHz



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



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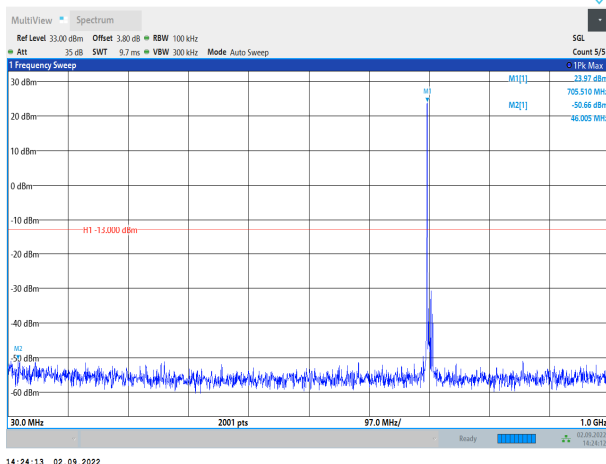
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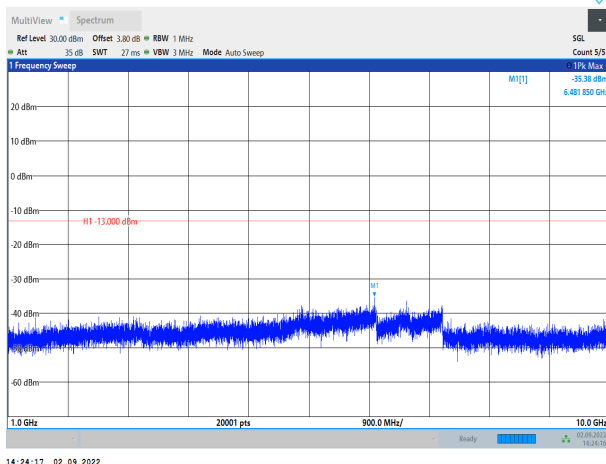
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### Band17-10MHz-QPSK-23790-1RB#0-Range4:1000~10000MHz



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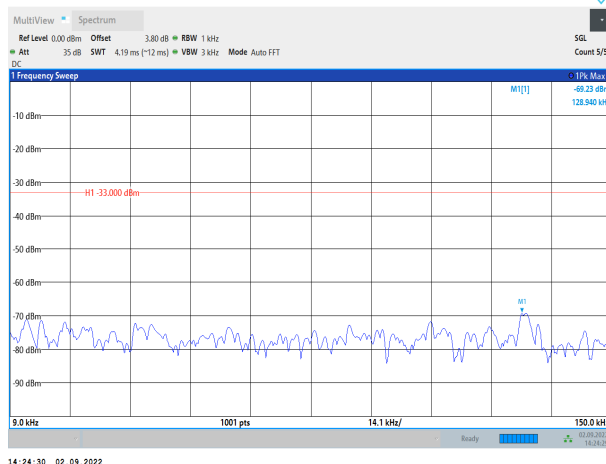
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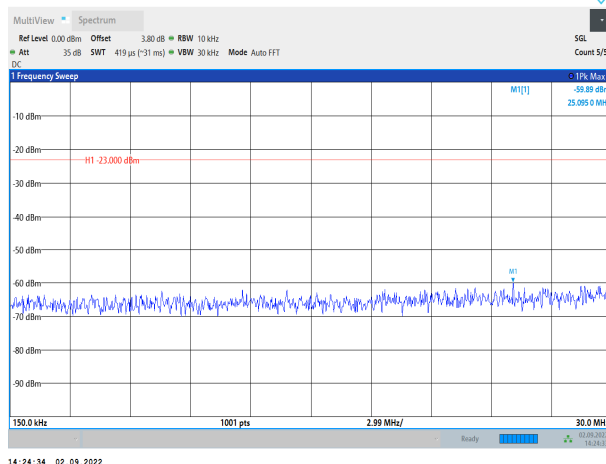
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### Band17-10MHz-QPSK-23800-1RB#0-Range1:0.009~0.15MHz



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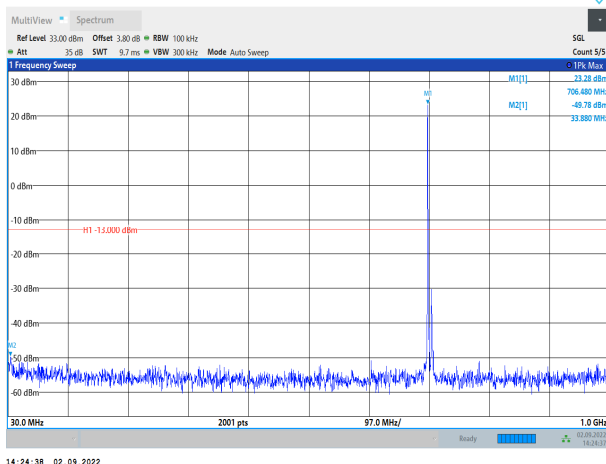


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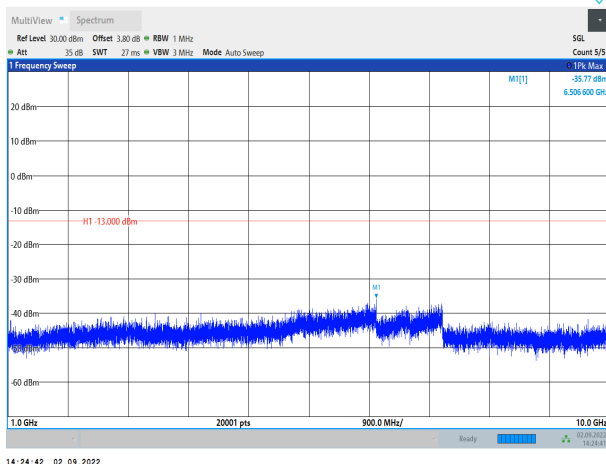
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### Band17-10MHz-QPSK-23800-1RB#0-Range3:30~1000MHz



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



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**Field Strength of Spurious Radiation****Test Band = LTE Band 17\_ TM1****Test Channel = Low Channel****Final Data List**

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1409.18	53.45	-48.71	25.41	-65.11	-13.00	52.11	263	275	Horizontal
2	2113.77	51.87	-47.86	27.13	-64.12	-13.00	51.12	241	0	Horizontal
3	2818.36	50.50	-46.70	28.98	-62.48	-13.00	49.48	178	98	Horizontal
4	3522.95	50.37	-46.02	29.46	-61.46	-13.00	48.46	263	216	Horizontal
5	4227.54	51.25	-45.11	30.96	-58.16	-13.00	45.16	201	50	Horizontal
6	4932.13	50.34	-45.10	32.44	-57.59	-13.00	44.59	142	0	Horizontal

**Final Data List**

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1409.18	53.58	-48.71	25.41	-64.98	-13.00	51.98	168	317	Vertical
2	2113.77	52.48	-47.86	27.13	-63.51	-13.00	50.51	241	340	Vertical
3	2818.36	50.94	-46.70	28.98	-62.04	-13.00	49.04	172	283	Vertical
4	3522.95	51.33	-46.02	29.46	-60.50	-13.00	47.50	232	350	Vertical
5	4227.54	51.18	-45.11	30.96	-58.23	-13.00	45.23	264	36	Vertical
6	4932.13	51.01	-45.10	32.44	-56.92	-13.00	43.92	211	48	Vertical



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**Test Band = LTE Band 17\_ TM1**
**Test Channel = Mid Channel**
**Final Data List**

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1411.18	52.42	-48.70	25.41	-66.13	-13.00	53.13	241	275	Horizontal
2	2116.77	51.60	-47.86	27.13	-64.38	-13.00	51.38	178	204	Horizontal
3	2822.36	51.93	-46.71	29.00	-61.04	-13.00	48.04	263	228	Horizontal
4	3527.95	51.18	-46.02	29.47	-60.63	-13.00	47.63	241	74	Horizontal
5	4233.54	49.90	-45.11	30.97	-59.50	-13.00	46.50	215	134	Horizontal
6	4939.13	50.87	-45.09	32.45	-57.03	-13.00	44.03	284	216	Horizontal

**Final Data List**

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1411.18	54.14	-48.70	25.41	-64.41	-13.00	51.41	268	260	Vertical
2	2116.77	51.69	-47.86	27.13	-64.29	-13.00	51.29	241	283	Vertical
3	2822.36	51.46	-46.71	29.00	-61.51	-13.00	48.51	175	3	Vertical
4	3527.95	51.23	-46.02	29.47	-60.58	-13.00	47.58	206	360	Vertical
5	4233.54	49.85	-45.11	30.97	-59.55	-13.00	46.55	298	359	Vertical
6	4939.13	51.14	-45.09	32.45	-56.76	-13.00	43.76	201	49	Vertical



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**Test Band = LTE Band 17\_ TM1**

**Test Channel = High Channel**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.18	52.88	-48.70	25.41	-65.66	-13.00	52.66	284	274	Horizontal
2	2119.77	51.81	-47.85	27.14	-64.16	-13.00	51.16	171	357	Horizontal
3	2826.36	52.29	-46.71	29.01	-60.67	-13.00	47.67	186	86	Horizontal
4	3532.95	52.47	-46.01	29.48	-59.32	-13.00	46.32	295	156	Horizontal
5	4239.54	49.80	-45.11	30.98	-59.59	-13.00	46.59	213	168	Horizontal
6	4946.13	50.84	-45.09	32.47	-57.03	-13.00	44.03	214	346	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.18	54.23	-48.70	25.41	-64.31	-13.00	51.31	268	213	Vertical
2	2119.77	51.51	-47.85	27.14	-64.46	-13.00	51.46	241	155	Vertical
3	2826.36	50.44	-46.71	29.01	-62.52	-13.00	49.52	175	3	Vertical
4	3532.95	50.55	-46.01	29.48	-61.24	-13.00	48.24	296	190	Vertical
5	4239.54	50.84	-45.11	30.98	-58.55	-13.00	45.55	362	49	Vertical
6	4946.13	50.02	-45.09	32.47	-57.85	-13.00	44.85	241	132	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	-3.10	-0.004366	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	1.40	0.001972	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	2.30	0.003239	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	-6.00	-0.008451	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	-2.60	-0.003662	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	0.00	0.000000	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	-1.60	-0.002254	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	-1.70	-0.002394	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	1.30	0.001831	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	-2.70	-0.003803	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	-2.20	-0.003099	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	-2.70	-0.003803	PASS

---End of Attachment---



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