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Appendix B.8

LTE Band 14



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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
Band14	5MHz	QPSK	23305	1RB#0	23.87	23.92	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#12	23.90	23.95	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	23.90	23.95	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	23.06	23.11	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	23.90	23.95	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	23.94	23.99	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	23.92	23.97	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	22.96	23.01	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	23.83	23.88	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	23.87	23.92	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	23.83	23.88	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	22.93	22.98	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	23.19	23.24	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	23.13	23.18	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	23.10	23.15	34.77	PASS
Band14	5MHz	16QAM	23305	25RB#0	22.04	22.09	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	23.19	23.24	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	23.23	23.28	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	23.13	23.18	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	22.01	22.06	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	23.16	23.21	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#12	23.12	23.17	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	23.04	23.09	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	21.92	21.97	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#0	22.12	22.17	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#12	22.12	22.17	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#24	22.20	22.25	34.77	PASS



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Band14	5MHz	64QAM	23305	25RB#0	21.05	21.1	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#0	22.25	22.3	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#12	22.17	22.22	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#24	22.20	22.25	34.77	PASS
Band14	5MHz	64QAM	23330	25RB#0	21.00	21.05	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#0	22.16	22.21	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#12	22.20	22.25	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#24	22.04	22.09	34.77	PASS
Band14	5MHz	64QAM	23355	25RB#0	20.89	20.94	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#0	24.04	24.09	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#24	23.95	24	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#49	23.71	23.76	34.77	PASS
Band14	10MHz	QPSK	23330	50RB#0	22.98	23.03	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	23.54	23.59	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	23.27	23.32	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	23.27	23.32	34.77	PASS
Band14	10MHz	16QAM	23330	50RB#0	22.01	22.06	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#0	22.23	22.28	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#24	22.34	22.39	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#49	22.01	22.06	34.77	PASS
Band14	10MHz	64QAM	23330	50RB#0	20.95	21	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
Band14	10MHz	QPSK	23330	50RB#0	5.40	13	PASS
Band14	10MHz	16QAM	23330	50RB#0	6.10	13	PASS
Band14	10MHz	64QAM	23330	50RB#0	6.66	13	PASS



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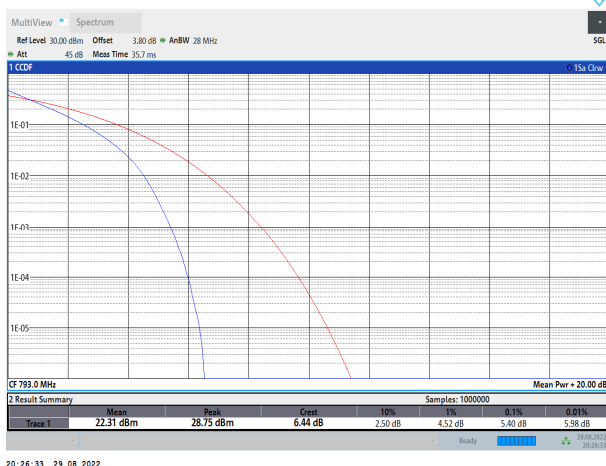
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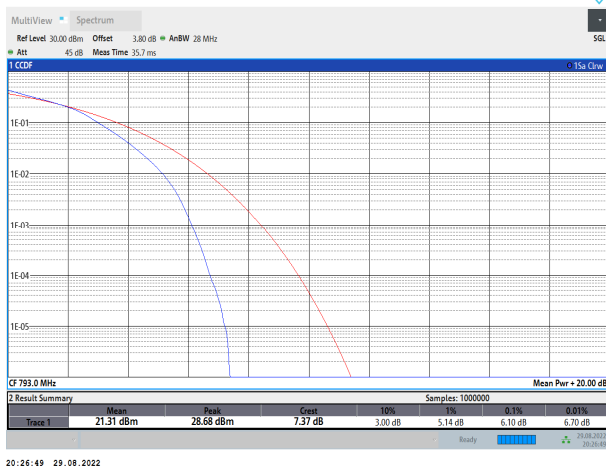
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Test Graphs

Band14-10MHz-QPSK-23330-50RB#0



Band14-10MHz-16QAM-23330-50RB#0



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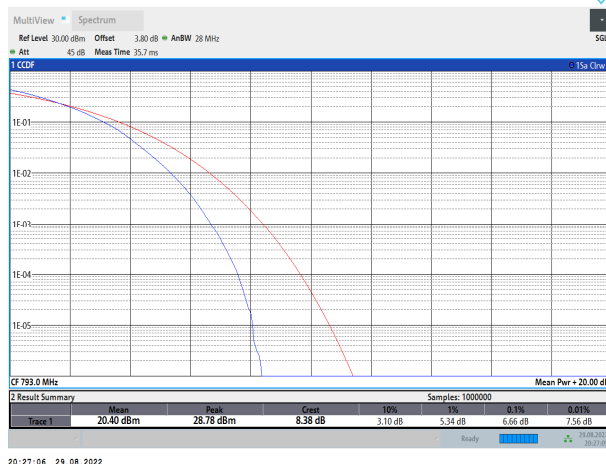
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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band14	10MHz	QPSK	23330	50RB#0	PASS	PASS
Band14	10MHz	16QAM	23330	50RB#0	PASS	PASS
Band14	10MHz	64QAM	23330	50RB#0	PASS	PASS



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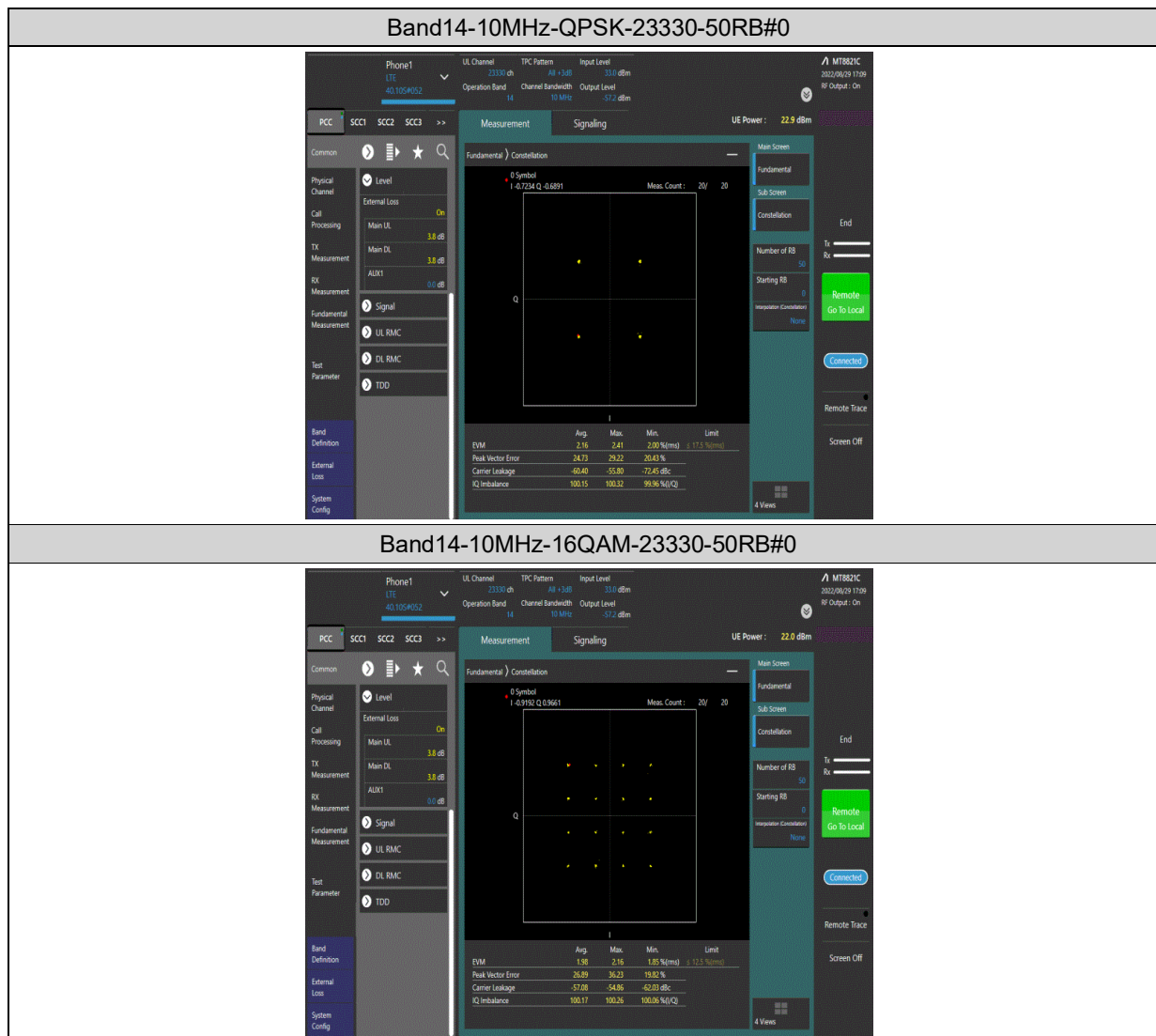
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Test Graphs

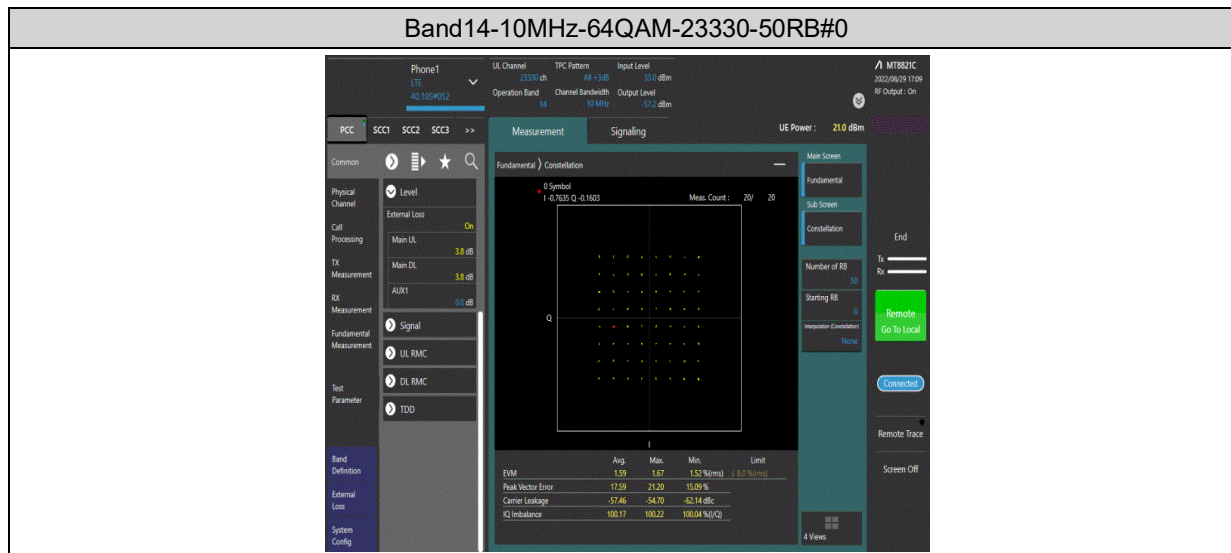


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Band14-10MHz-64QAM-23330-50RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band14	5MHz	QPSK	23305	25RB#0	4.468	4.87	PASS
Band14	5MHz	QPSK	23330	25RB#0	4.468	4.87	PASS
Band14	5MHz	QPSK	23355	25RB#0	4.466	4.87	PASS
Band14	5MHz	16QAM	23305	25RB#0	4.469	4.92	PASS
Band14	5MHz	16QAM	23330	25RB#0	4.464	4.90	PASS
Band14	5MHz	16QAM	23355	25RB#0	4.467	4.89	PASS
Band14	5MHz	64QAM	23305	25RB#0	4.48	4.88	PASS
Band14	5MHz	64QAM	23330	25RB#0	4.474	4.90	PASS
Band14	5MHz	64QAM	23355	25RB#0	4.476	4.90	PASS
Band14	10MHz	QPSK	23330	50RB#0	8.948	9.67	PASS
Band14	10MHz	16QAM	23330	50RB#0	8.914	9.63	PASS
Band14	10MHz	64QAM	23330	50RB#0	8.933	9.67	PASS



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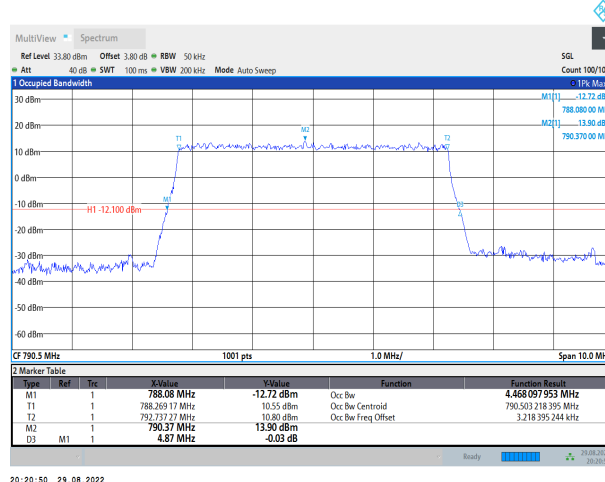
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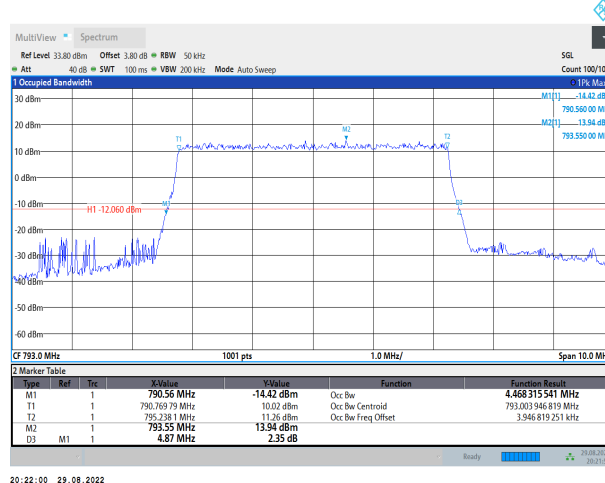
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Test Graphs

Band14-5MHz-QPSK-23305-25RB#0



Band14-5MHz-QPSK-23330-25RB#0



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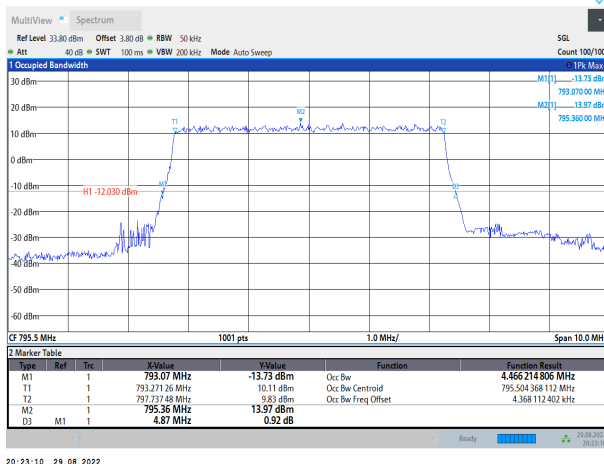
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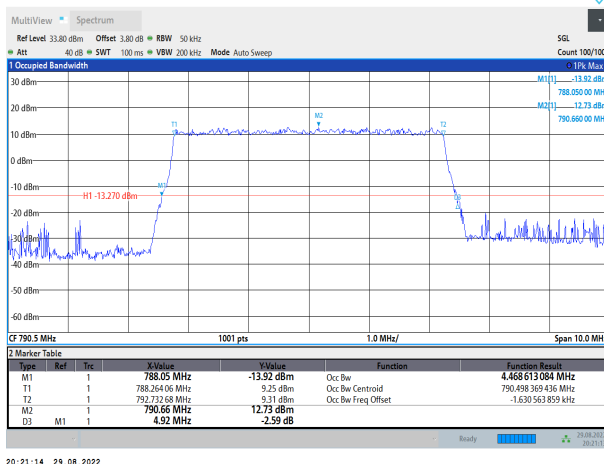
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Band14-5MHz-QPSK-23355-25RB#0



Band14-5MHz-16QAM-23305-25RB#0



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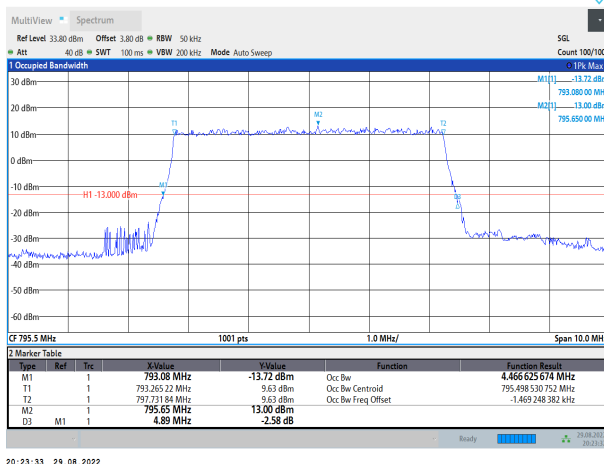
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Band14-5MHz-16QAM-23330-25RB#0



Band14-5MHz-16QAM-23355-25RB#0



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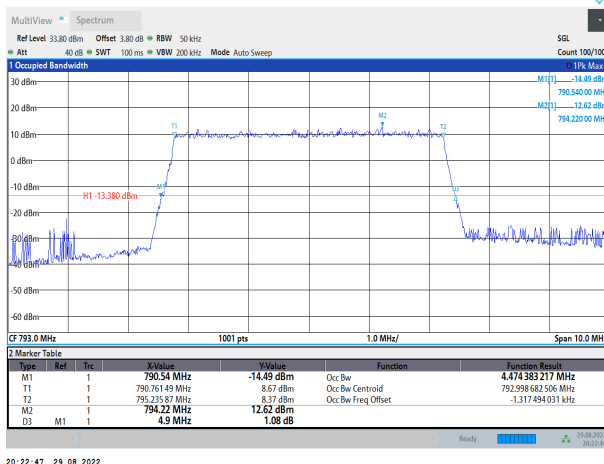
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Band14-5MHz-64QAM-23305-25RB#0



Band14-5MHz-64QAM-23330-25RB#0



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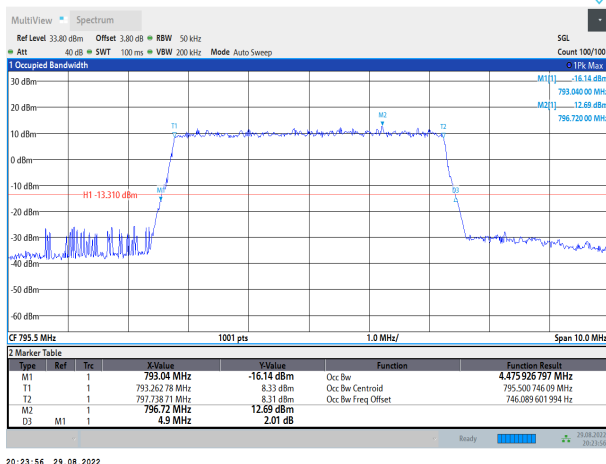
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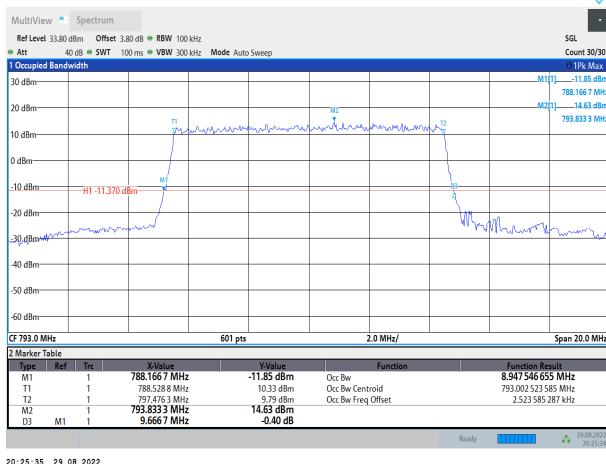
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Band14-10MHz-QPSK-23330-50RB#0

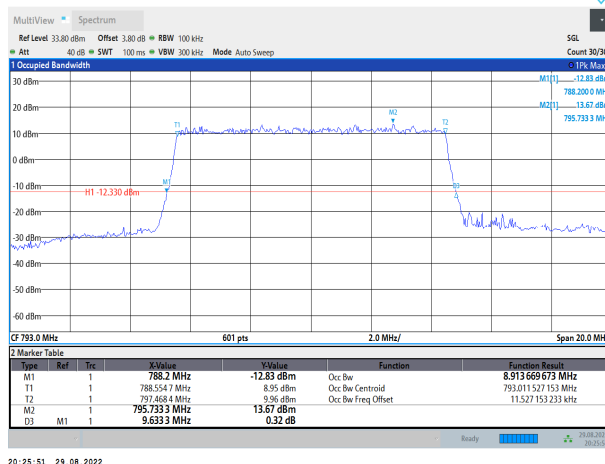


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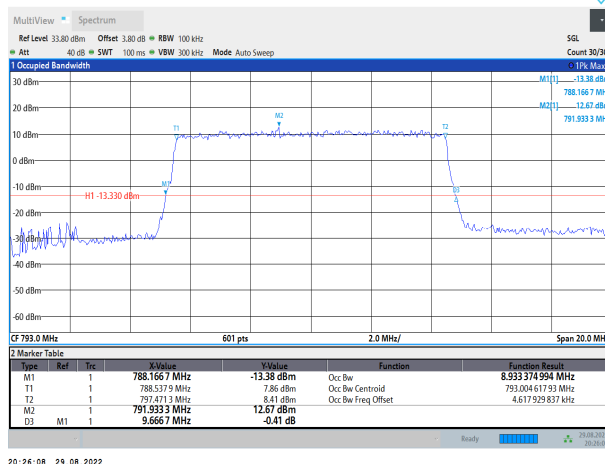
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Band14-10MHz-64QAM-23330-50RB#0



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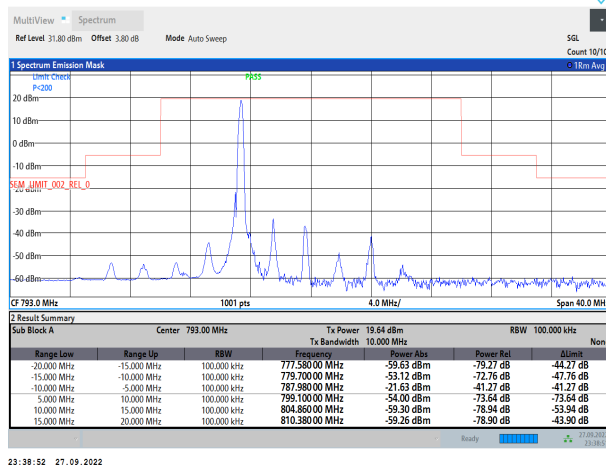
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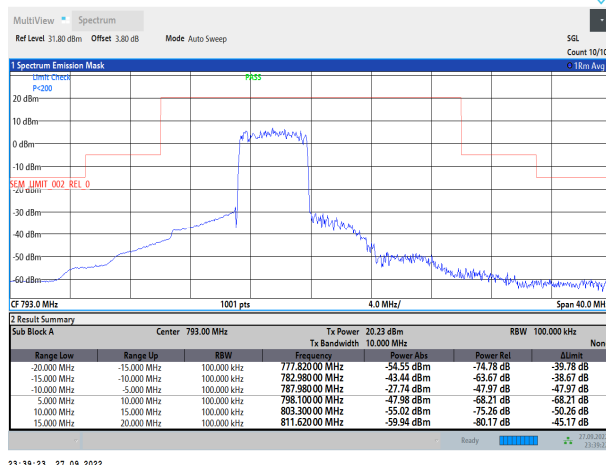
Emission Mask

Test Graphs

Band14-5MHz-QPSK-23305-1RB#0



Band14-5MHz-QPSK-23305-25RB#0

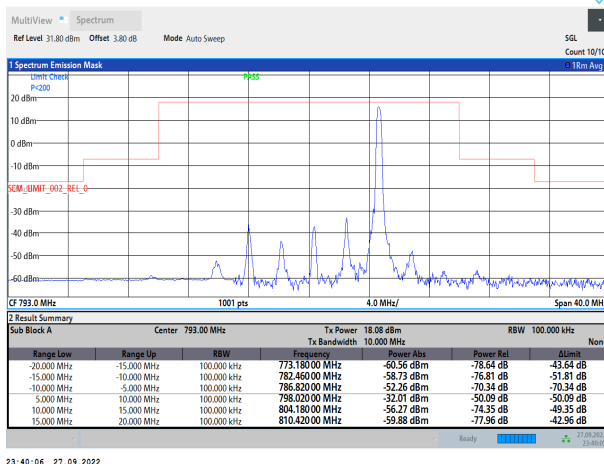


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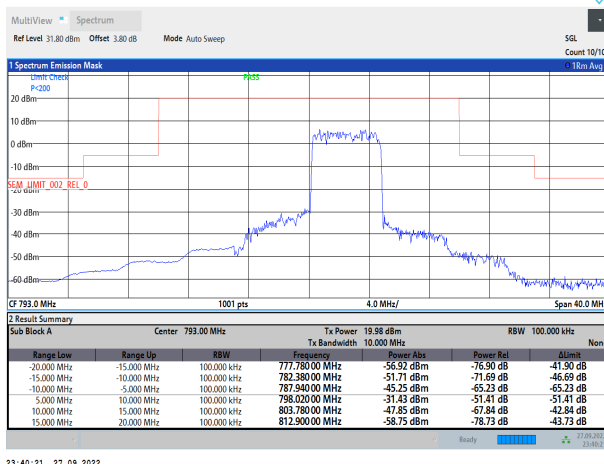
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Band14-5MHz-QPSK-23355-1RB#24



Band14-5MHz-QPSK-23355-25RB#0

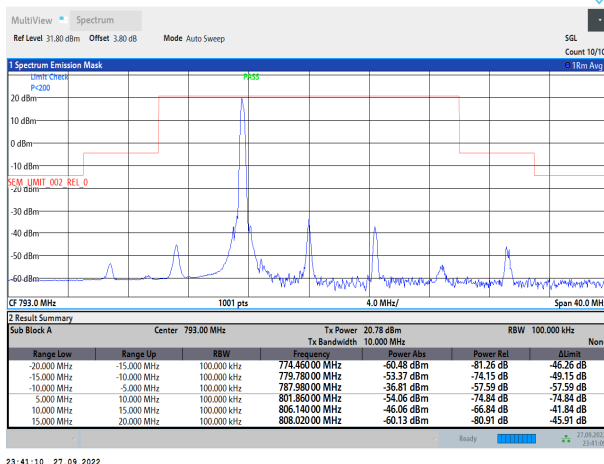


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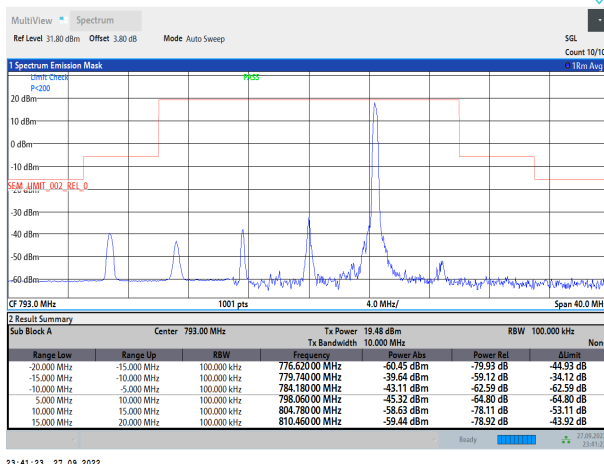
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Band14-10MHz-QPSK-23330-1RB#0



Band14-10MHz-QPSK-23330-1RB#49



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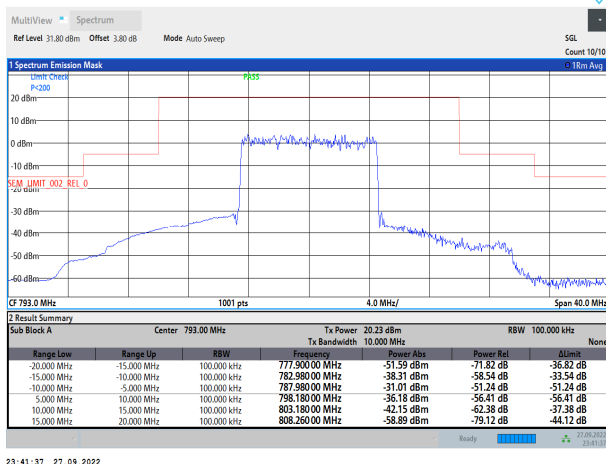
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Band14-10MHz-QPSK-23330-50RB#0



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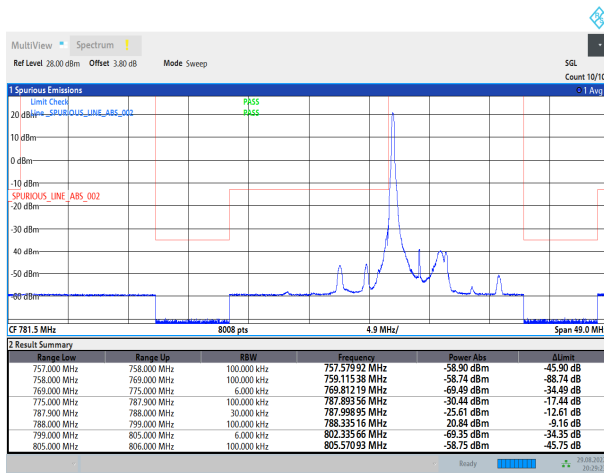
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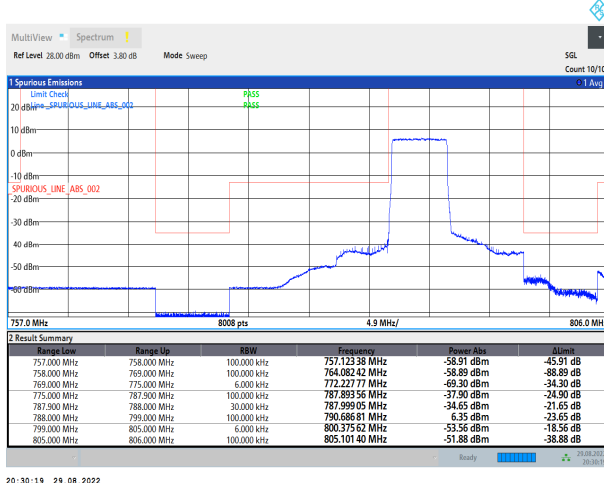
Band Edge

Test Graphs

Band14-5MHz-QPSK-23305-1RB#0



Band14-5MHz-QPSK-23305-25RB#0

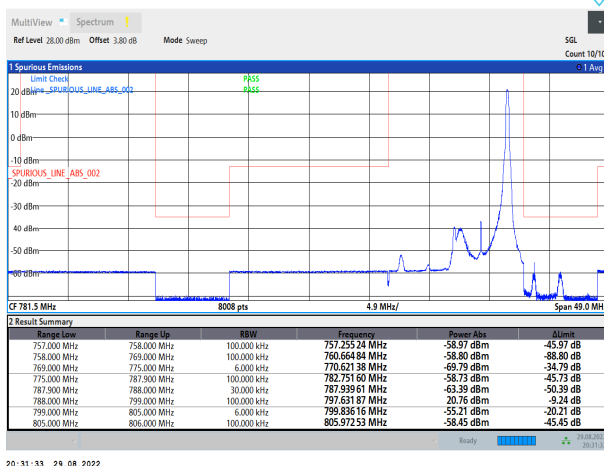


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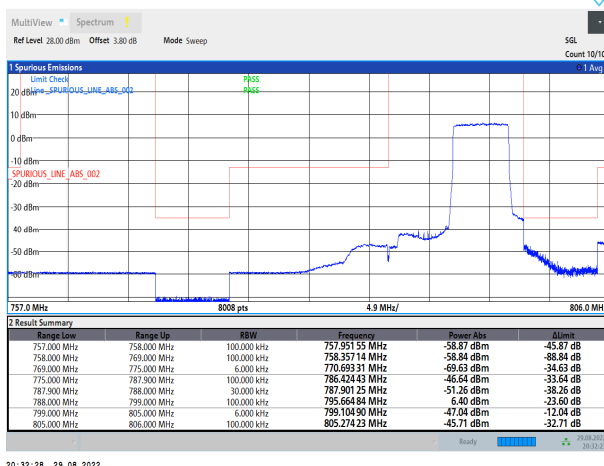
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Band14-5MHz-QPSK-23355-1RB#24



Band14-5MHz-QPSK-23355-25RB#0

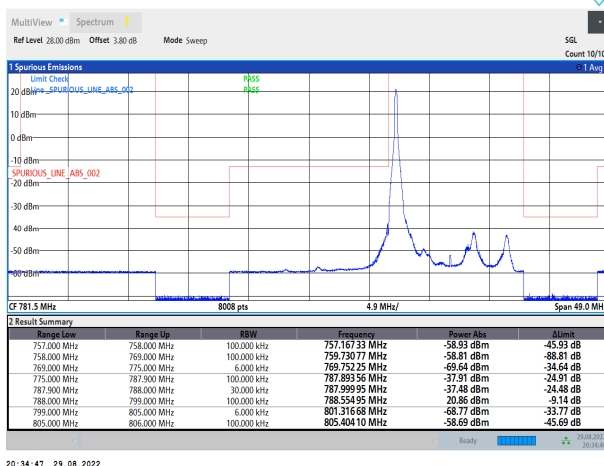


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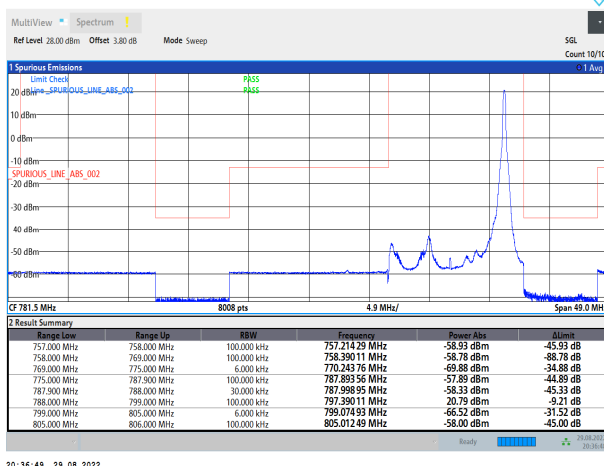
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Band14-10MHz-QPSK-23330-1RB#0



Band14-10MHz-QPSK-23330-1RB#49



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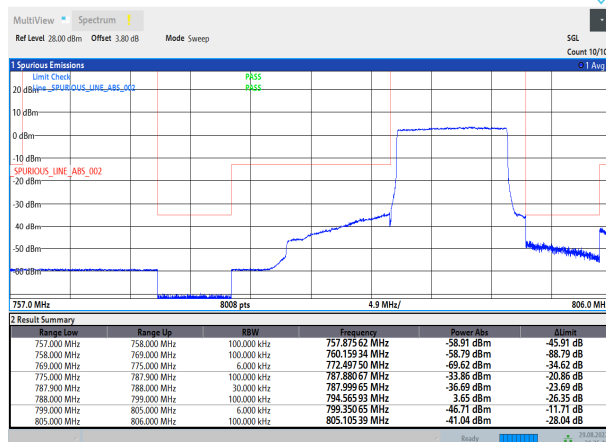
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Band14-10MHz-QPSK-23330-50RB#0



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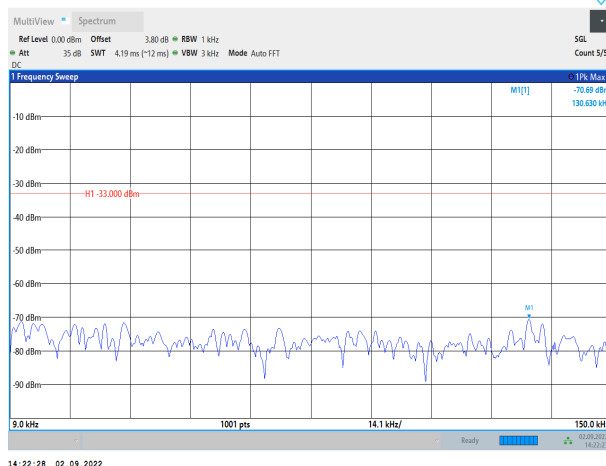
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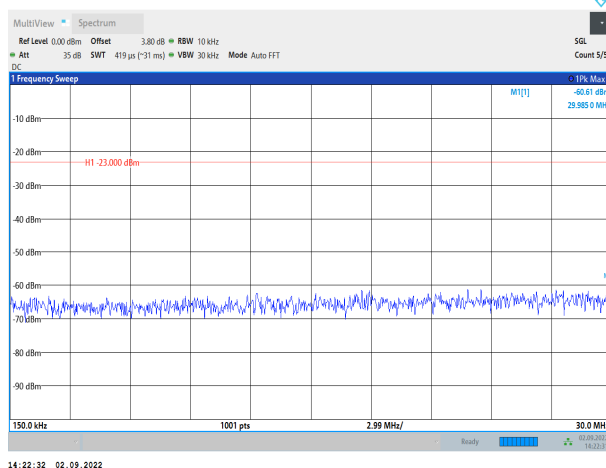
Conducted Spurious Emission

Test Graphs

Band14-10MHz-QPSK-23330-1RB#0-Range1:0.009~0.15MHz



Band14-10MHz-QPSK-23330-1RB#0-Range2:0.15~30MHz

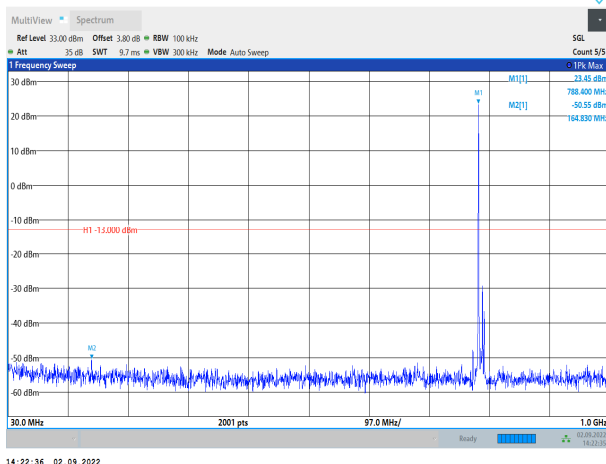


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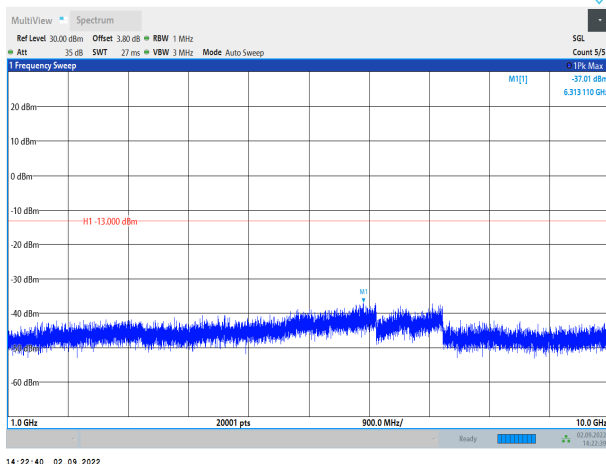
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Band14-10MHz-QPSK-23330-1RB#0-Range3:30~1000MHz



Band14-10MHz-QPSK-23330-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band 14 BW 10M_ 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	1577.18	53.93	-48.51	25.58	-64.27	-40.00	24.27	142	7	Horizontal
2	2365.77	52.94	-47.60	27.63	-62.29	-13.00	49.29	263	0	Horizontal
3	3154.36	50.74	-46.39	29.54	-61.37	-13.00	48.37	265	25	Horizontal
4	3942.95	55.72	-45.52	30.46	-54.59	-13.00	41.59	210	346	Horizontal
5	4731.54	49.99	-44.57	31.96	-57.88	-13.00	44.88	196	25	Horizontal
6	5520.13	49.82	-43.76	32.67	-56.53	-13.00	43.53	255	49	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	1577.18	55.18	-48.51	25.58	-63.02	-40.00	23.02	142	360	Vertical
2	2365.77	52.32	-47.60	27.63	-62.91	-13.00	49.91	268	208	Vertical
3	3154.36	50.81	-46.39	29.54	-61.30	-13.00	48.30	241	58	Vertical
4	3942.95	57.02	-45.52	30.46	-53.29	-13.00	40.29	175	46	Vertical
5	4731.54	50.60	-44.57	31.96	-57.27	-13.00	44.27	295	299	Vertical
6	5520.13	50.37	-43.76	32.67	-55.98	-13.00	42.98	201	81	Vertical



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Test Band = LTE Band 14 BW 5M_ 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	1576.68	55.56	-48.51	25.58	-62.64	-40.00	22.64	142	108	Horizontal
2	2365.02	52.73	-47.60	27.63	-62.50	-13.00	49.50	263	188	Horizontal
3	3153.36	50.83	-46.39	29.54	-61.29	-13.00	48.29	265	165	Horizontal
4	3941.7	52.13	-45.52	30.46	-58.19	-13.00	45.19	201	84	Horizontal
5	4730.04	50.90	-44.57	31.95	-56.98	-13.00	43.98	142	280	Horizontal
6	5518.38	49.89	-43.76	32.66	-56.47	-13.00	43.47	288	357	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	1576.68	54.14	-48.51	25.58	-64.06	-40.00	24.06	142	359	Vertical
2	2365.02	51.69	-47.60	27.63	-63.54	-13.00	50.54	265	48	Vertical
3	3153.36	51.37	-46.39	29.54	-60.75	-13.00	47.75	288	48	Vertical
4	3941.7	55.57	-45.52	30.46	-54.75	-13.00	41.75	142	48	Vertical
5	4730.04	49.43	-44.57	31.95	-58.45	-13.00	45.45	263	117	Vertical
6	5518.38	49.50	-43.76	32.66	-56.86	-13.00	43.86	201	162	Vertical



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Test Band = LTE Band 14 BW 5M_ 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	1581.68	53.15	-48.51	25.58	-65.04	-40.00	25.04	241	313	Horizontal
2	2372.52	51.01	-47.60	27.65	-64.21	-13.00	51.21	175	26	Horizontal
3	3163.36	50.87	-46.37	29.53	-61.22	-13.00	48.22	263	16	Horizontal
4	3954.2	48.77	-45.51	30.49	-61.51	-13.00	48.51	295	2	Horizontal
5	4745.04	50.60	-44.58	31.99	-57.25	-13.00	44.25	201	1	Horizontal
6	5535.88	49.80	-43.74	32.72	-56.49	-13.00	43.49	144	60	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	1581.68	52.43	-48.51	25.58	-65.76	-40.00	25.76	162	358	Vertical
2	2372.52	51.98	-47.60	27.65	-63.24	-13.00	50.24	265	4	Vertical
3	3163.36	50.95	-46.37	29.53	-61.14	-13.00	48.14	241	208	Vertical
4	3954.2	48.80	-45.51	30.49	-61.48	-13.00	48.48	175	14	Vertical
5	4745.04	50.49	-44.58	31.99	-57.36	-13.00	44.36	201	232	Vertical
6	5535.88	48.97	-43.74	32.72	-57.32	-13.00	44.32	166	37	Vertical



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Test Band = LTE Band 14 BW 5M_ 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	1586.68	54.70	-48.52	25.59	-63.49	-40.00	23.49	152	118	Horizontal
2	2380.02	52.75	-47.60	27.66	-62.45	-13.00	49.45	265	209	Horizontal
3	3173.36	49.91	-46.34	29.53	-62.16	-13.00	49.16	241	106	Horizontal
4	3966.7	51.24	-45.51	30.52	-59.01	-13.00	45.62	185	7	Horizontal
5	4760.04	50.10	-44.59	32.03	-57.72	-13.00	44.72	263	37	Horizontal
6	5553.38	49.19	-43.73	32.77	-57.02	-13.00	44.02	201	357	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	1586.68	53.59	-48.52	25.59	-64.60	-40.00	24.60	168	195	Vertical
2	2380.02	51.24	-47.60	27.66	-63.96	-13.00	50.96	201	60	Vertical
3	3173.36	51.50	-46.34	29.53	-60.57	-13.00	47.57	174	334	Vertical
4	3966.7	48.68	-45.51	30.52	-61.57	-13.00	43.19	185	353	Vertical
5	4760.04	50.06	-44.59	32.03	-57.76	-13.00	44.76	263	25	Vertical
6	5553.38	49.19	-43.73	32.77	-57.02	-13.00	44.02	201	13	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) - Preamp (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
Band14	10MHz	QPSK	23330	50RB#0	VL	NT	-1.70	-0.002144	PASS
Band14	10MHz	QPSK	23330	50RB#0	VN	NT	0.20	0.000252	PASS
Band14	10MHz	QPSK	23330	50RB#0	VH	NT	1.00	0.001261	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	NV	-30	-0.90	-0.001135	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-20	-0.50	-0.000631	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-10	-1.80	-0.002270	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	0	-0.50	-0.000631	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	10	-2.10	-0.002648	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	20	1.20	0.001513	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	30	-1.10	-0.001387	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	40	-1.10	-0.001387	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	50	-1.80	-0.002270	PASS

 $|\text{MAX}(\Delta f)| = 2.1 \text{ Hz}$

Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - \text{MAX}(\Delta f) $	788.562354	$\geq 788 \text{ MHz}$	PASS
$f_H + \text{MAX}(\Delta f) $	797.456982	$\leq 798 \text{ MHz}$	

---End of Attachment---



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