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# Appendix B.4

## LTE Cat-M1 Band5



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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
Band5	1.4M	QPSK	L	1RB0	20.39	21.24	38.45	PASS
Band5	1.4M	QPSK	L	1RB5	20.12	20.97	38.45	PASS
Band5	1.4M	QPSK	L	6RB0	18.18	19.03	38.45	PASS
Band5	1.4M	QPSK	M	1RB0	20.32	21.17	38.45	PASS
Band5	1.4M	QPSK	M	1RB5	20.41	21.26	38.45	PASS
Band5	1.4M	QPSK	M	6RB0	18.63	19.48	38.45	PASS
Band5	1.4M	QPSK	H	1RB0	20.41	21.26	38.45	PASS
Band5	1.4M	QPSK	H	1RB5	20.32	21.17	38.45	PASS
Band5	1.4M	QPSK	H	6RB0	18.33	19.18	38.45	PASS
Band5	3M	QPSK	L	1RB0	20.42	21.27	38.45	PASS
Band5	3M	QPSK	L	1RB5	20.31	21.16	38.45	PASS
Band5	3M	QPSK	L	6RB0	18.45	19.3	38.45	PASS
Band5	3M	QPSK	M	1RB0	20.32	21.17	38.45	PASS
Band5	3M	QPSK	M	1RB5	20.14	20.99	38.45	PASS
Band5	3M	QPSK	M	6RB0	19.42	20.27	38.45	PASS
Band5	3M	QPSK	H	1RB0	20.33	21.18	38.45	PASS
Band5	3M	QPSK	H	1RB5	20.42	21.27	38.45	PASS
Band5	3M	QPSK	H	6RB0	18.96	19.81	38.45	PASS
Band5	5M	QPSK	L	1RB0	20.51	21.36	38.45	PASS
Band5	5M	QPSK	L	1RB5	20.49	21.34	38.45	PASS
Band5	5M	QPSK	L	6RB0	19.43	20.28	38.45	PASS
Band5	5M	QPSK	M	1RB0	20.49	21.34	38.45	PASS
Band5	5M	QPSK	M	1RB5	20.36	21.21	38.45	PASS
Band5	5M	QPSK	M	6RB0	19.52	20.37	38.45	PASS
Band5	5M	QPSK	H	1RB0	20.36	21.21	38.45	PASS
Band5	5M	QPSK	H	1RB5	20.44	21.29	38.45	PASS
Band5	5M	QPSK	H	6RB0	19.42	20.27	38.45	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	5MHz	QPSK	20425	6RB#0	8.74	13	PASS
Band5	5MHz	QPSK	20525	6RB#0	8.80	13	PASS
Band5	5MHz	QPSK	20625	6RB#0	8.74	13	PASS



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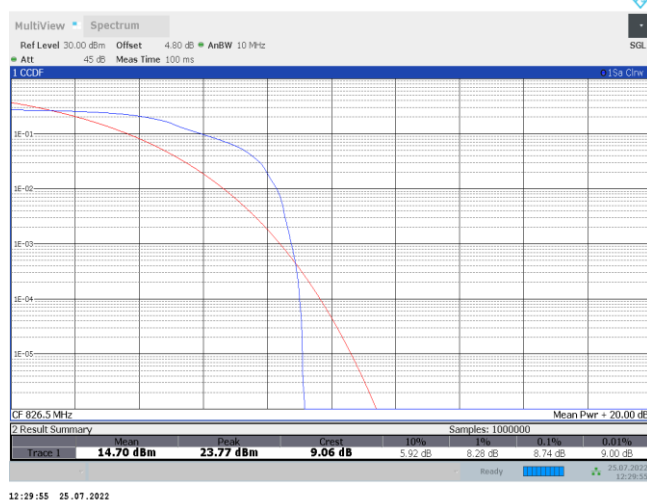
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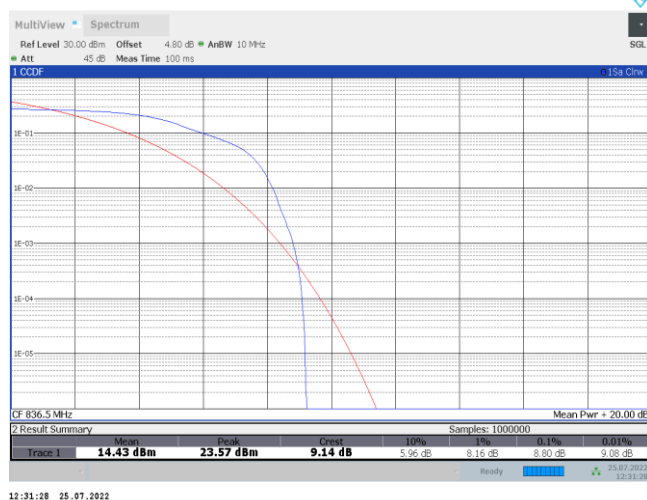
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### Test Graphs

Band5-5MHz-QPSK-20425-6RB#0



Band5-5MHz-QPSK-20525-6RB#0



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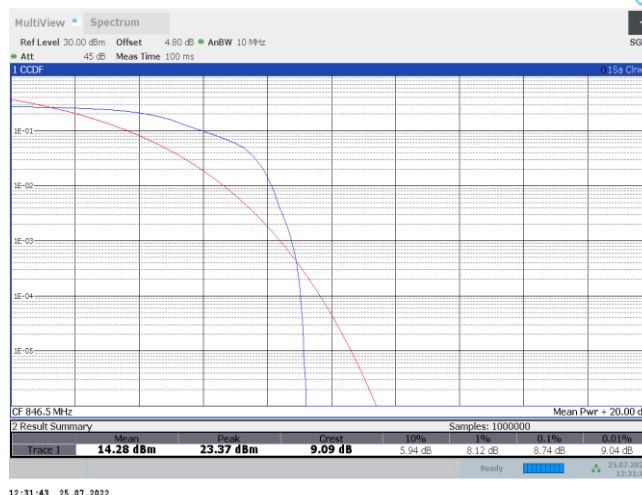
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### Band5-5MHz-QPSK-20625-6RB#0



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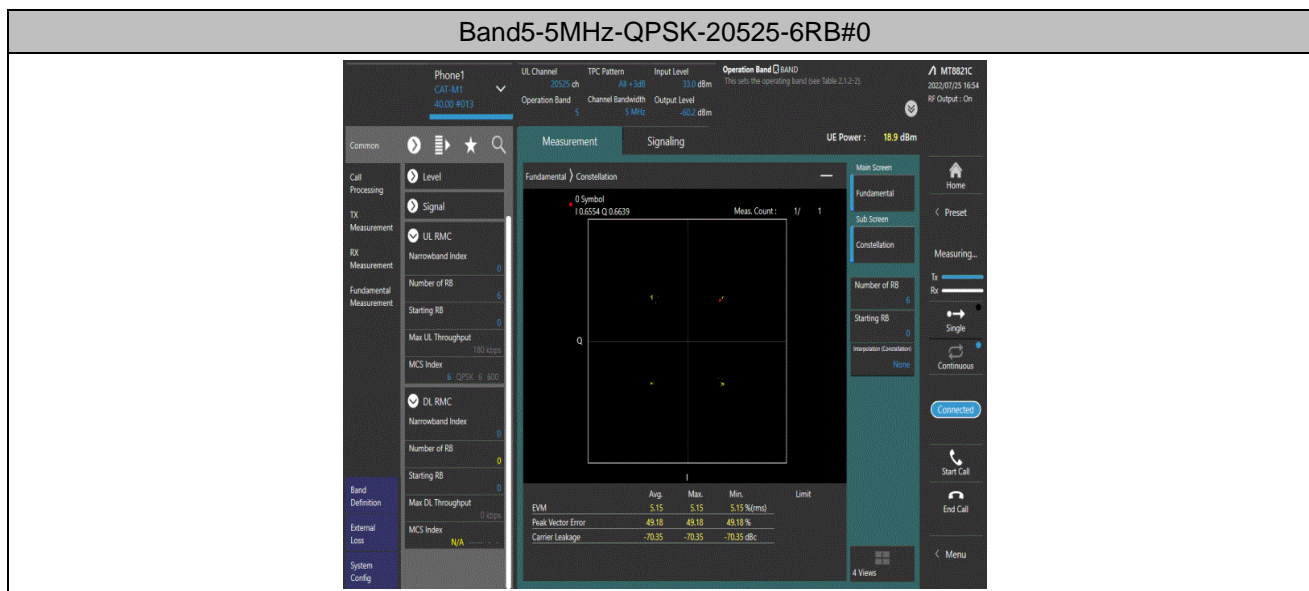
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## Modulation Characteristics

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band5	5MHz	QPSK	20525	6RB#0	PASS	PASS

### 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
Band5	1.4MHz	QPSK	20407	6RB#0	1.103	1.23	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.101	1.37	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.088	1.26	PASS
Band5	3MHz	QPSK	20415	6RB#0	1.112	1.32	PASS
Band5	3MHz	QPSK	20525	6RB#0	1.107	1.34	PASS
Band5	3MHz	QPSK	20635	6RB#0	1.099	1.27	PASS
Band5	5MHz	QPSK	20425	6RB#0	1.098	1.27	PASS
Band5	5MHz	QPSK	20525	6RB#0	1.124	1.42	PASS
Band5	5MHz	QPSK	20625	6RB#0	1.128	1.41	PASS



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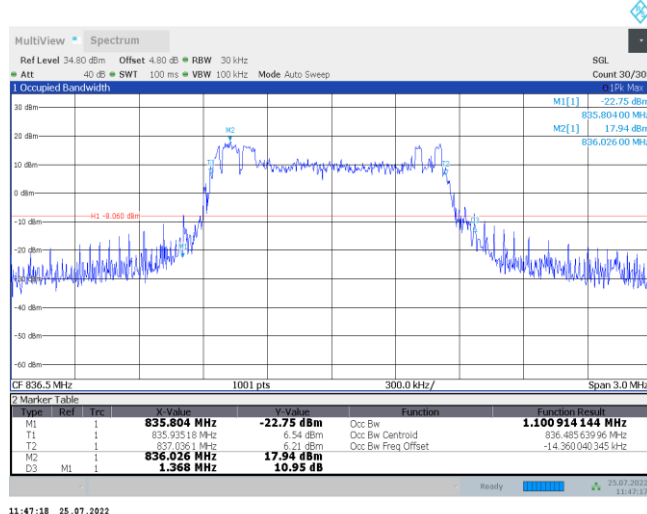
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### Test Graphs

Band5-1.4MHz-QPSK-20407-6RB#0



Band5-1.4MHz-QPSK-20525-6RB#0



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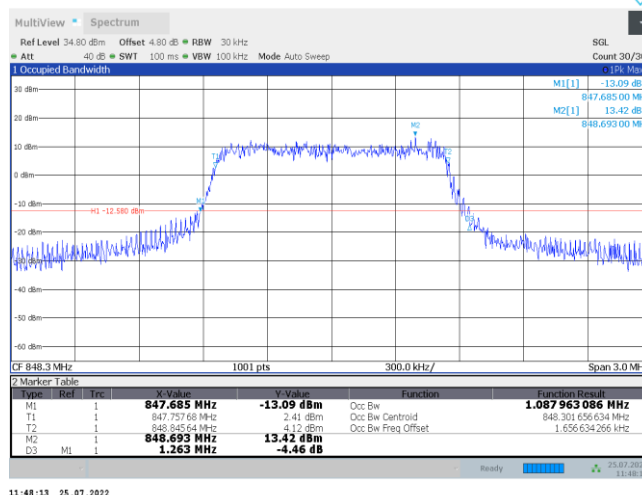


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### Band5-1.4MHz-QPSK-20643-6RB#0



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### Band5-3MHz-QPSK-20415-6RB#0



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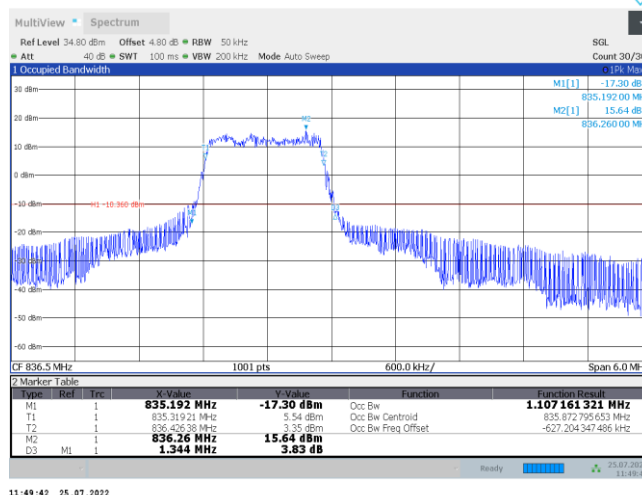
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### Band5-3MHz-QPSK-20525-6RB#0



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### Band5-3MHz-QPSK-20635-6RB#0



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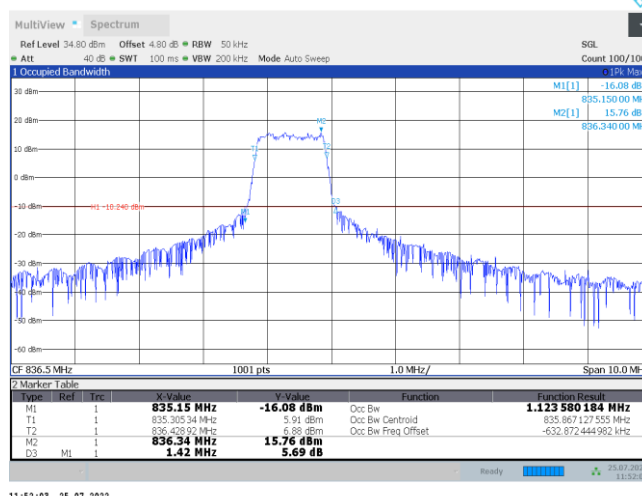
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### Band5-5MHz-QPSK-20425-6RB#0



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### Band5-5MHz-QPSK-20525-25RB#0



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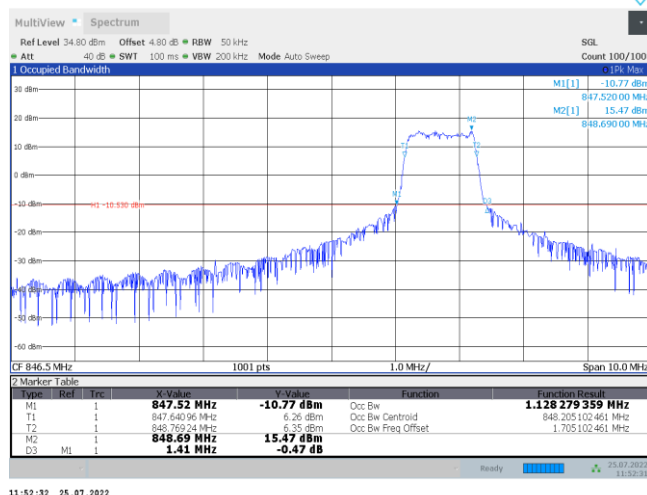
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### Band5-5MHz-QPSK-20625-6RB#0



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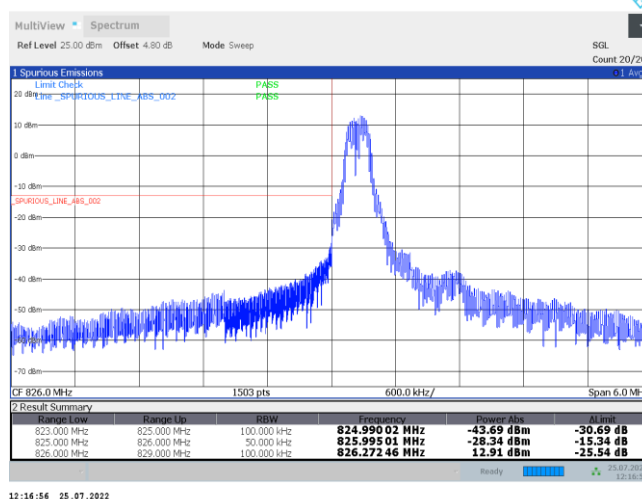
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### Band Edge

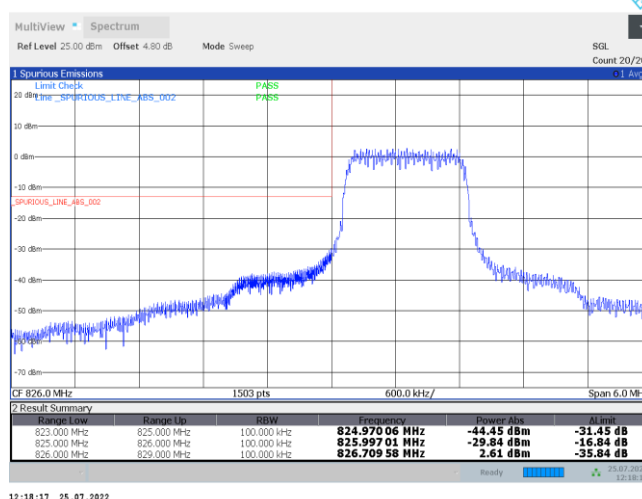
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Band5-1.4MHz-QPSK-20427-1RB#0



12:16:56 25.07.2022

Band5-1.4MHz-QPSK-20427-6RB#0



12:18:17 25.07.2022



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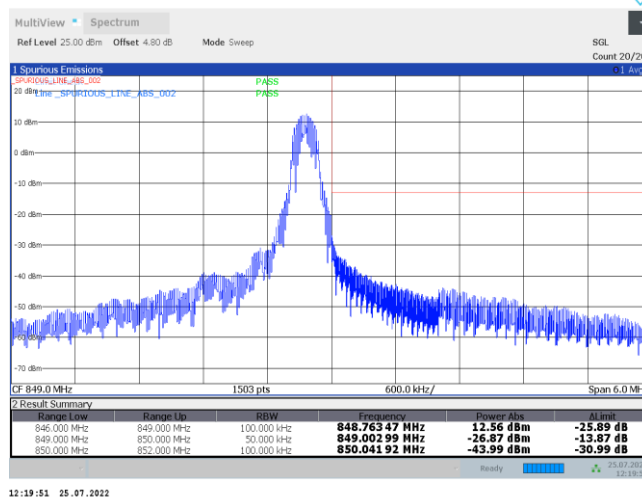


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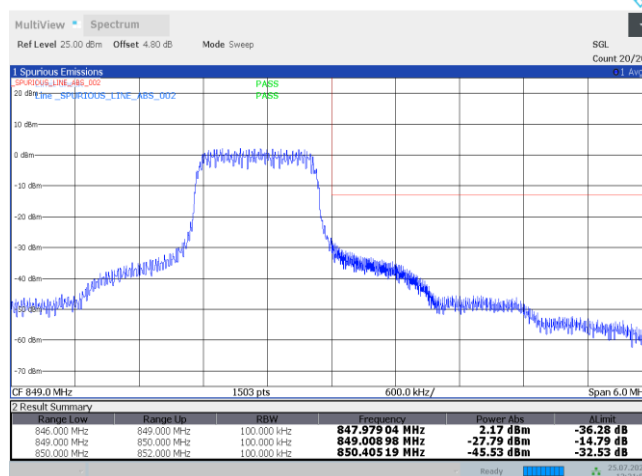
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### Band5-1.4MHz-QPSK-20643-1RB#5



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12:21:09 25.07.2022



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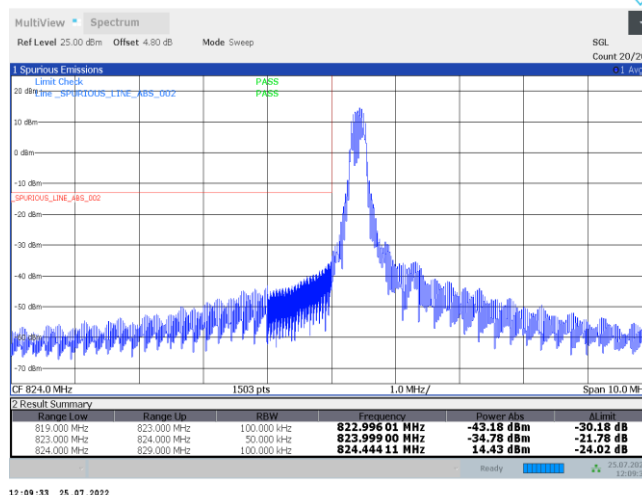
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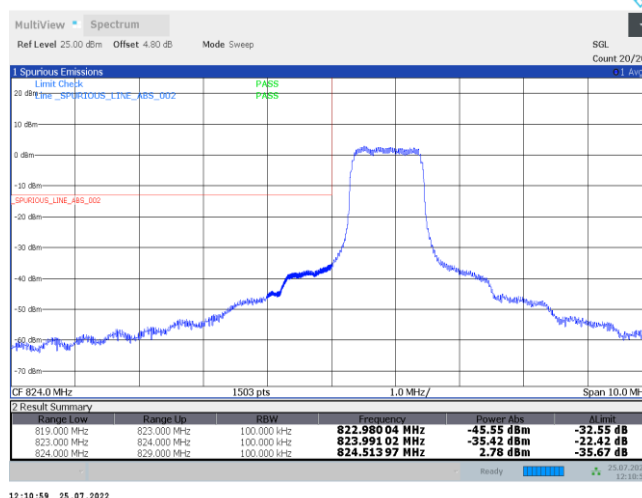
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### Band5-3MHz-QPSK-20415-1RB#0



### Band5-3MHz-QPSK-20415-6RB#0



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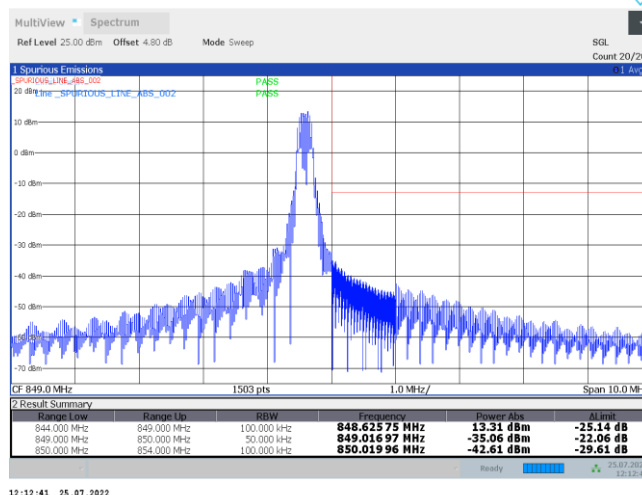
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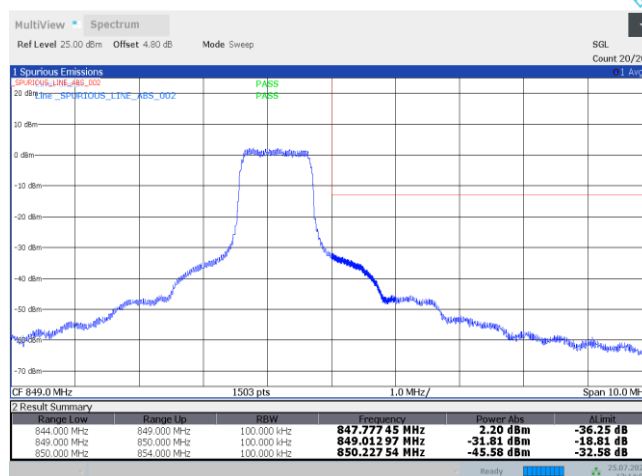
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### Band5-3MHz-QPSK-20635-6RB#0



12:14:00 25.07.2022



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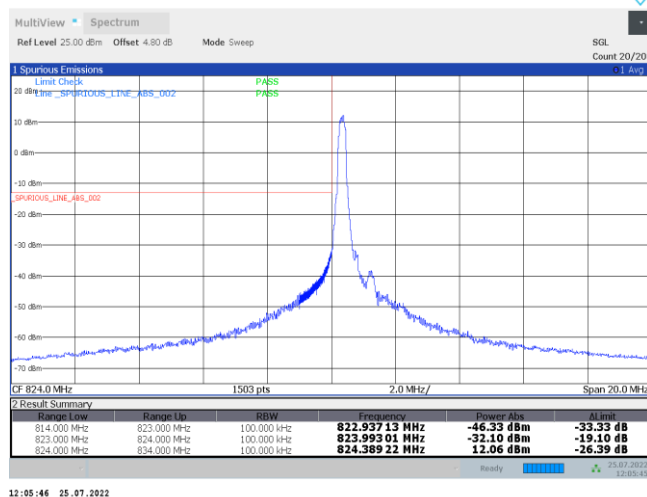
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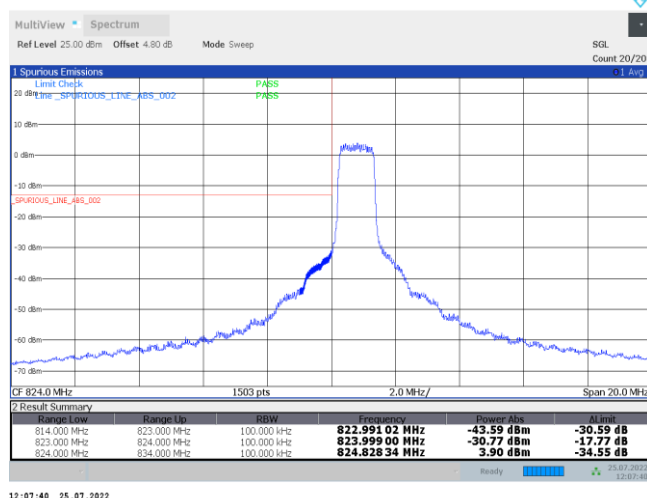
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### Band5-5MHz-QPSK-20425-1RB#0



### Band5-5MHz-QPSK-20425-6RB#0



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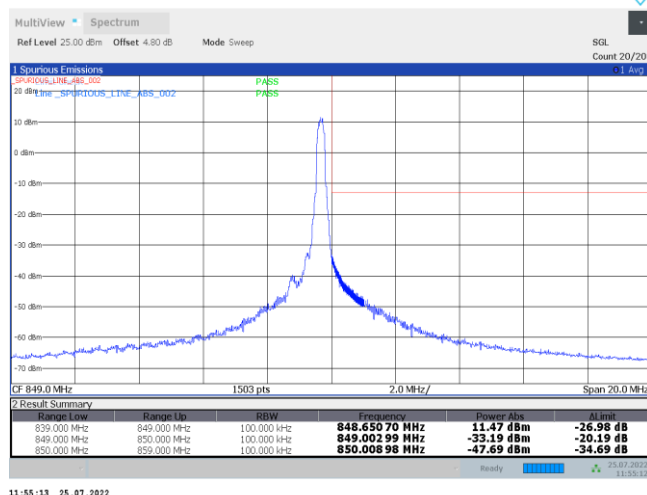
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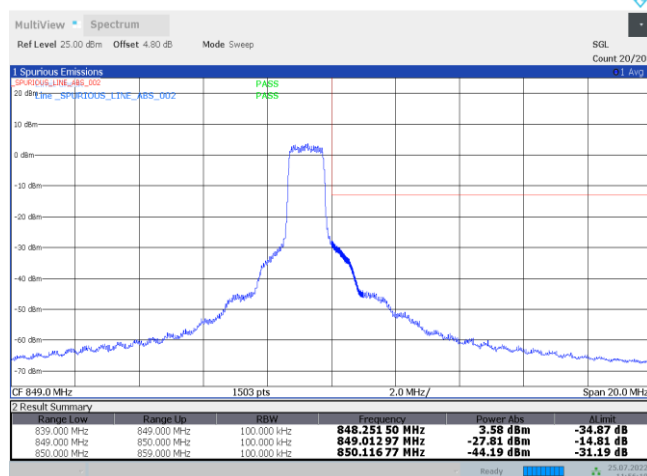
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### Band5-5MHz-QPSK-20625-6RB#0



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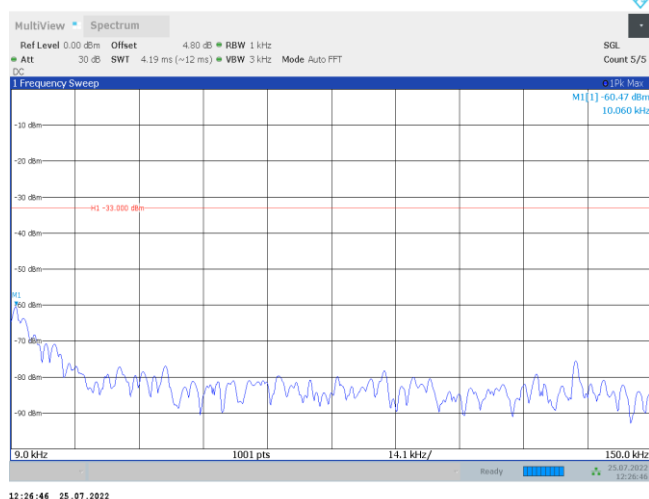
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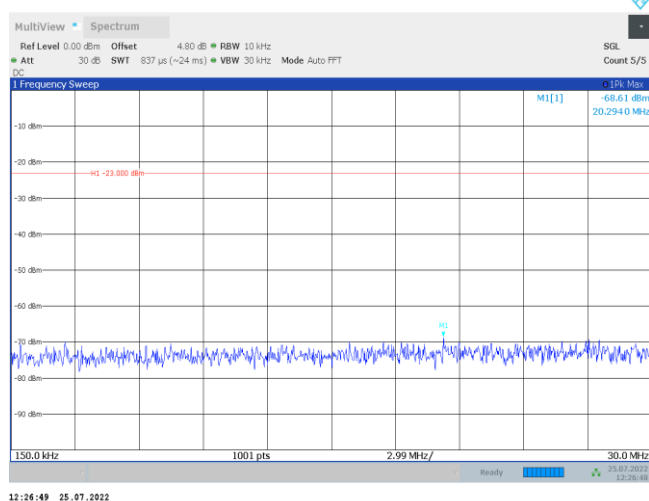
### Conducted Spurious Emission

#### Test Graphs

Band5-5MHz-QPSK-20425-1RB#0-Range1:0.009~0.15MHz



Band5-5MHz-QPSK-20425-1RB#0-Range2:0.15~30MHz



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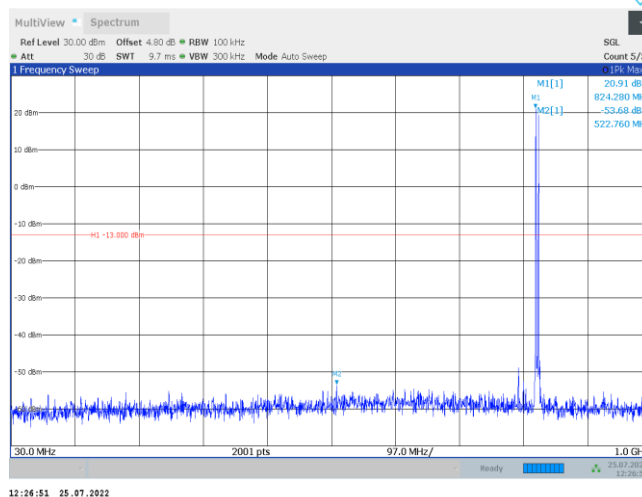
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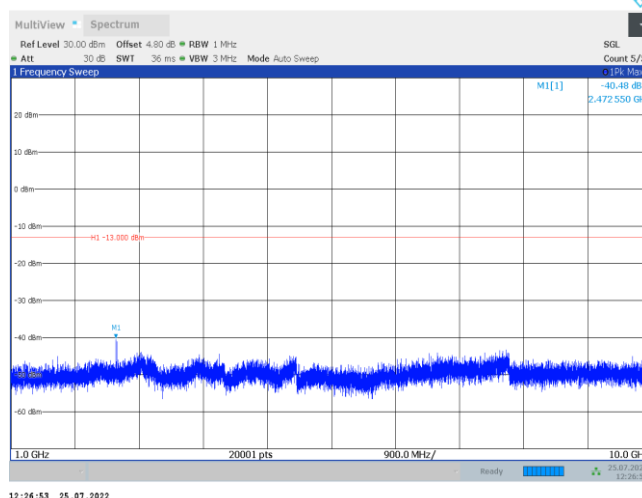
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### Band5-5MHz-QPSK-20425-1RB#0-Range3:30~1000MHz



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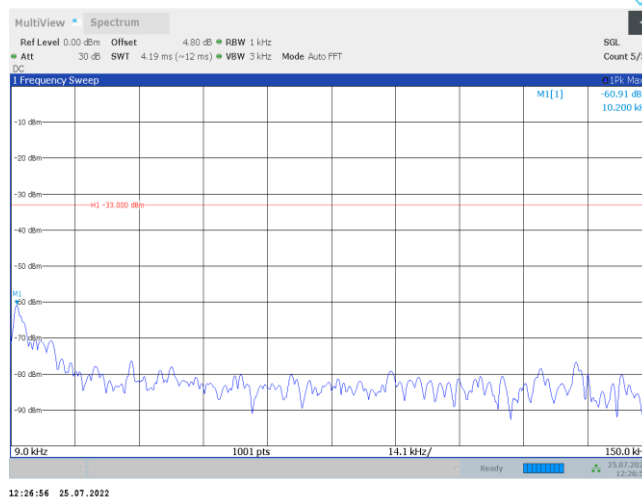
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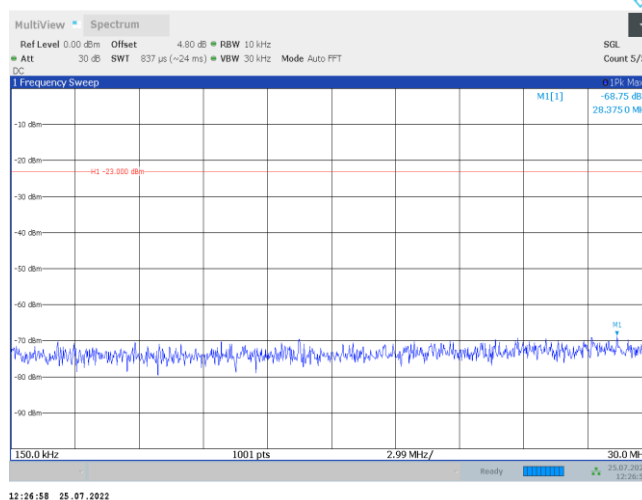
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### Band5-5MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



### Band5-5MHz-QPSK-20525-1RB#0-Range2:0.15~30MHz



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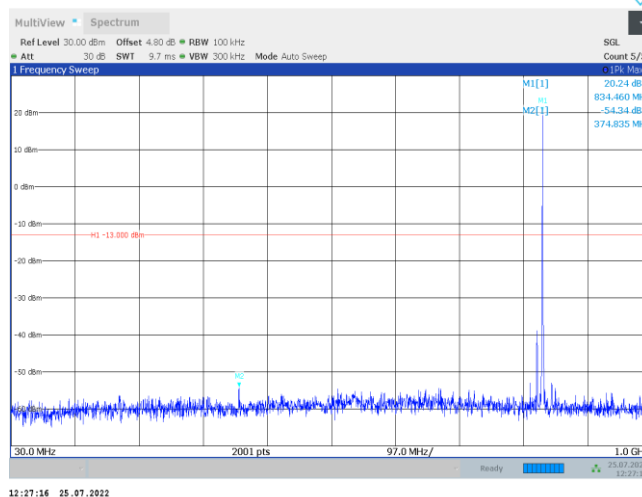
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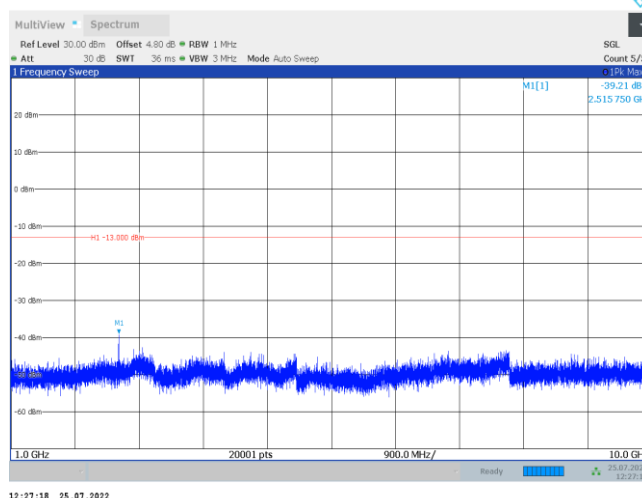
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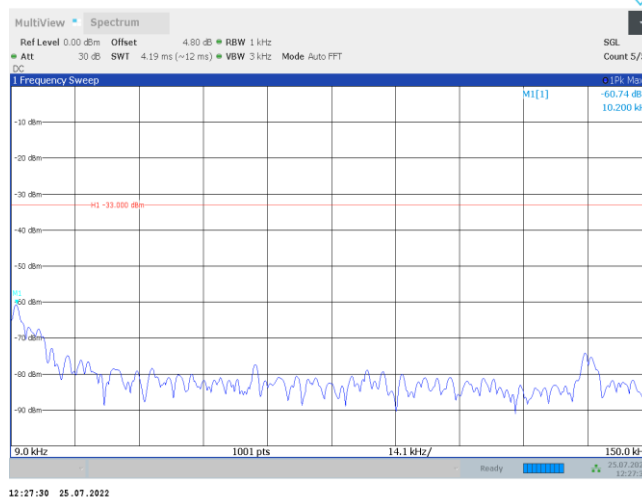
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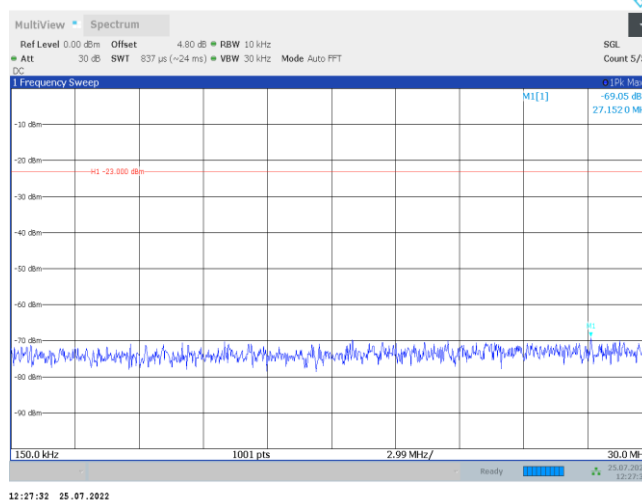
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### Band5-5MHz-QPSK-20625-1RB#0-Range1:0.009~0.15MHz



### Band5-5MHz-QPSK-20625-1RB#0-Range2:0.15~30MHz



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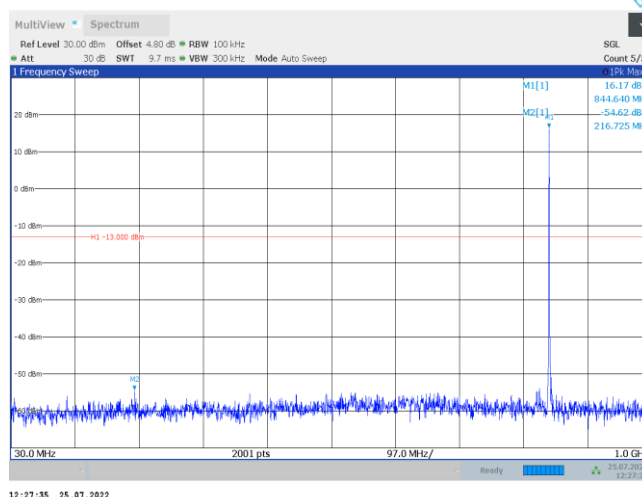


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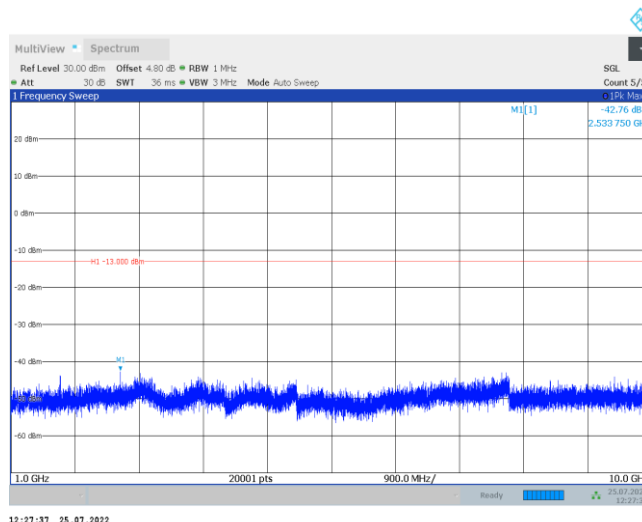
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### Band5-5MHz-QPSK-20625-1RB#0-Range3:30~1000MHz



### Band5-5MHz-QPSK-20625-1RB#0-Range4:1000~10000MHz



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## Field Strength of Spurious Radiation

**Test Band = CAT M1 Band 5\_ TM1**
**Test Channel = Low**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.1800	74.20	-48.22	25.37	-43.91	-13.00	30.91	138	214	Horizontal
2	2473.7700	79.46	-47.32	27.69	-35.43	-13.00	22.43	154	147	Horizontal
3	3298.3600	61.95	-46.68	29.56	-50.43	-13.00	37.43	214	320	Horizontal
4	4124	58.55	-45.91	30.99	-51.64	-13.00	38.64	143	0	Horizontal
5	4947.5400	50.65	-45.69	32.73	-57.57	-13.00	44.57	182	0	Horizontal
6	5772.1300	48.79	-44.64	33.65	-57.46	-13.00	44.46	173	8	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	1649.1800	65.58	-48.22	25.37	-52.53	-13.00	39.53	171	237	Vertical
2	2473.7700	61.74	-47.32	27.69	-53.15	-13.00	40.15	184	158	Vertical
3	3298.3600	51.83	-46.68	29.56	-60.55	-13.00	47.55	215	237	Vertical
4	4122.9500	50.26	-45.91	30.99	-59.93	-13.00	46.93	237	210	Vertical
5	4947.5400	49.81	-45.69	32.73	-58.41	-13.00	45.41	269	66	Vertical
6	5772.1300	48.45	-44.64	33.65	-57.80	-13.00	44.80	258	3	Vertical



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**Test Band = CAT M1 Band 5\_ TM1**
**Test Channel = Mid**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.1800	79.12	-48.20	25.38	-38.97	-13.00	25.97	139	202	Horizontal
2	2496.2700	76.26	-47.28	27.76	-38.52	-13.00	25.52	214	148	Horizontal
3	3329.1429	62.85	-46.64	29.52	-49.53	-13.00	36.53	164	228	Horizontal
4	4161.7143	55.84	-45.94	31.04	-54.31	-13.00	41.31	158	228	Horizontal
5	4992.5400	48.61	-45.79	32.86	-59.58	-13.00	46.58	223	356	Horizontal
6	5824.6300	47.92	-44.74	33.80	-58.28	-13.00	45.28	175	19	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	1664.1800	66.91	-48.20	25.38	-51.18	-13.00	38.18	214	251	Vertical
2	2497.1429	60.45	-47.28	27.76	-54.32	-13.00	41.32	167	290	Vertical
3	3328.3600	51.35	-46.64	29.52	-61.03	-13.00	48.03	179	105	Vertical
4	4160.4500	48.89	-45.94	31.04	-61.27	-13.00	48.27	225	80	Vertical
5	4992.5400	48.67	-45.79	32.86	-59.52	-13.00	46.52	231	290	Vertical
6	5824.6300	48.29	-44.74	33.80	-57.91	-13.00	44.91	264	66	Vertical



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**Test Band = CAT M1 Band 5\_ TM1**
**Test Channel = High**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.1800	81.27	-48.18	25.38	-36.79	-13.00	23.79	162	228	Horizontal
2	2519.4286	78.04	-47.20	27.83	-36.59	-13.00	23.59	172	202	Horizontal
3	3358.3600	61.32	-46.60	29.48	-51.06	-13.00	38.06	214	242	Horizontal
4	4197.9500	52.94	-45.96	31.10	-57.18	-13.00	44.18	235	357	Horizontal
5	5037.5400	48.81	-45.65	32.90	-59.20	-13.00	46.20	271	357	Horizontal
6	5887.1300	49.21	-44.93	33.92	-57.06	-13.00	44.06	184	308	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	1679.1800	67.55	-48.18	25.38	-50.51	-13.00	37.51	194	251	Vertical
2	2519.4286	62.23	-47.20	27.83	-52.40	-13.00	39.40	173	225	Vertical
3	3358.3600	52.46	-46.60	29.48	-59.92	-13.00	46.92	217	330	Vertical
4	4197.9500	49.50	-45.96	31.10	-60.62	-13.00	47.62	238	225	Vertical
5	5037.5400	49.91	-45.65	32.90	-58.10	-13.00	45.10	183	198	Vertical
6	5887.1300	49.84	-44.93	33.92	-56.43	-13.00	43.43	159	4	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:

$$\text{Level} = \text{Reading Level} + \text{AF(dB/m)} + \text{Factor(dB)}$$

$$\text{AF} = \text{Antenna Factor(dB/m)}$$

$$\text{Factor} = \text{Cable Factor(dB)} - \text{Preamplifier gain (dB)}$$

$$\text{Margin} = \text{Limit(dBm)} - \text{Level(dBm)}$$

$$\text{dBm} = \text{dBμV} - 95.26$$


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## Frequency Stability

### Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	5MHz	QPSK	20525	6RB#0	VL	NT	-2.30	-0.002750	±2.5	PASS
Band5	5MHz	QPSK	20525	6RB#0	VN	NT	-8.60	-0.010281	±2.5	PASS
Band5	5MHz	QPSK	20525	6RB#0	VH	NT	-4.80	-0.005738	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	5MHz	QPSK	20525	6RB#0	NV	-30	-6.50	-0.007770	±2.5	PASS
Band5	5MHz	QPSK	20525	6RB#0	NV	-20	-4.40	-0.005260	±2.5	PASS
Band5	5MHz	QPSK	20525	6RB#0	NV	-10	-8.00	-0.009564	±2.5	PASS
Band5	5MHz	QPSK	20525	6RB#0	NV	0	-5.40	-0.006455	±2.5	PASS
Band5	5MHz	QPSK	20525	6RB#0	NV	10	-7.80	-0.009325	±2.5	PASS
Band5	5MHz	QPSK	20525	6RB#0	NV	20	-5.30	-0.006336	±2.5	PASS
Band5	5MHz	QPSK	20525	6RB#0	NV	30	-8.60	-0.010281	±2.5	PASS
Band5	5MHz	QPSK	20525	6RB#0	NV	40	-8.50	-0.010161	±2.5	PASS
Band5	5MHz	QPSK	20525	6RB#0	NV	50	-4.70	-0.005619	±2.5	PASS

---End of Attachment---



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