

Report No.: SEWM2207000119RG01

Rev.: 01

Page: 1 of 28

# Appendix B.3

## LTE Cat-M1 Band4



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Report No.: SEWM2207000119RG01

Rev.: 01

Page: 2 of 28

**Effective (Isotropic) Radiated Power Output Data****Test Result**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band4	1.4M	QPSK	L	1RB0	20.06	23.06	30	PASS
Band4	1.4M	QPSK	L	1RB5	20.05	23.05	30	PASS
Band4	1.4M	QPSK	L	6RB0	18.16	21.16	30	PASS
Band4	1.4M	QPSK	M	1RB0	20.11	23.11	30	PASS
Band4	1.4M	QPSK	M	1RB5	20.05	23.05	30	PASS
Band4	1.4M	QPSK	M	6RB0	18.05	21.05	30	PASS
Band4	1.4M	QPSK	H	1RB0	20.16	23.16	30	PASS
Band4	1.4M	QPSK	H	1RB5	20.04	23.04	30	PASS
Band4	1.4M	QPSK	H	6RB0	18.08	21.08	30	PASS
Band4	3M	QPSK	L	1RB0	20.03	23.03	30	PASS
Band4	3M	QPSK	L	1RB5	20.05	23.05	30	PASS
Band4	3M	QPSK	L	6RB0	18.12	21.12	30	PASS
Band4	3M	QPSK	M	1RB0	20.12	23.12	30	PASS
Band4	3M	QPSK	M	1RB5	20.05	23.05	30	PASS
Band4	3M	QPSK	M	6RB0	18.08	21.08	30	PASS
Band4	3M	QPSK	H	1RB0	20.15	23.15	30	PASS
Band4	3M	QPSK	H	1RB5	20.02	23.02	30	PASS
Band4	3M	QPSK	H	6RB0	18.13	21.13	30	PASS
Band4	5M	QPSK	L	1RB0	20.12	23.12	30	PASS
Band4	5M	QPSK	L	1RB5	20.36	23.36	30	PASS
Band4	5M	QPSK	L	6RB0	18.87	21.87	30	PASS
Band4	5M	QPSK	M	1RB0	20.32	23.32	30	PASS
Band4	5M	QPSK	M	1RB5	20.02	23.02	30	PASS
Band4	5M	QPSK	M	6RB0	18.79	21.79	30	PASS
Band4	5M	QPSK	H	1RB0	20.25	23.25	30	PASS
Band4	5M	QPSK	H	1RB5	20.14	23.14	30	PASS
Band4	5M	QPSK	H	6RB0	18.79	21.79	30	PASS



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Report No.: SEWM2207000119RG01

Rev.: 01

Page: 3 of 28

## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	5MHz	QPSK	19975	6RB#0	8.96	13	PASS
Band4	5MHz	QPSK	20175	6RB#0	8.88	13	PASS
Band4	5MHz	QPSK	20375	6RB#0	8.92	13	PASS



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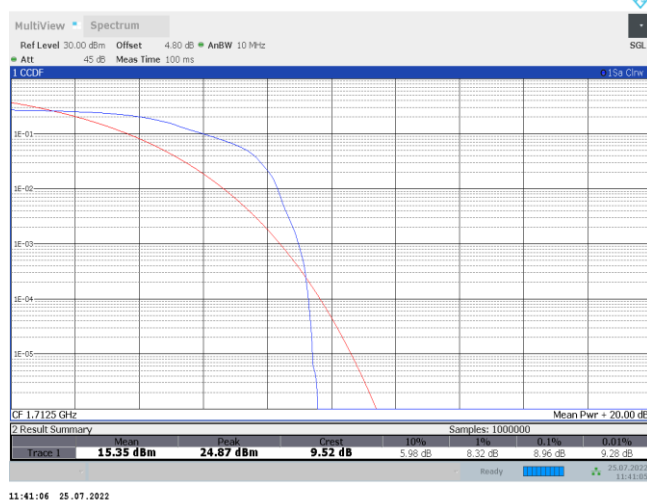
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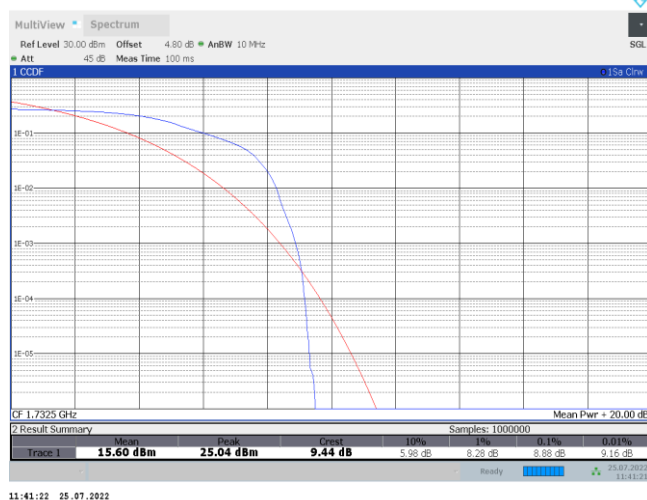
Page: 4 of 28

### Test Graphs

Band4-20MHz-QPSK-19975-6RB#0



Band4-20MHz-QPSK-20175-6RB#0



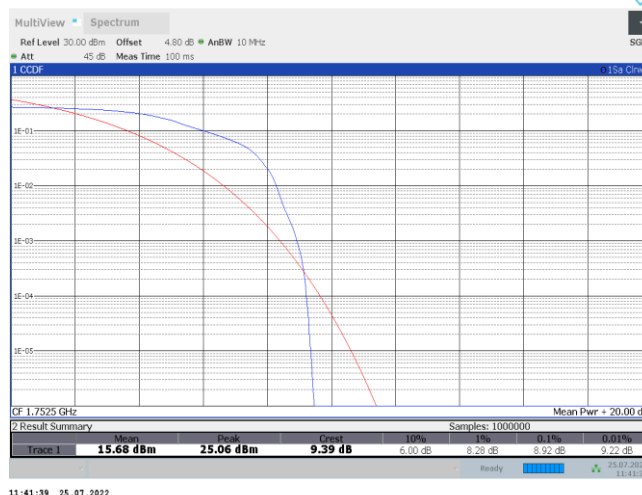
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Rev.: 01

Page: 5 of 28

### Band4-20MHz-QPSK-20375-6RB#0



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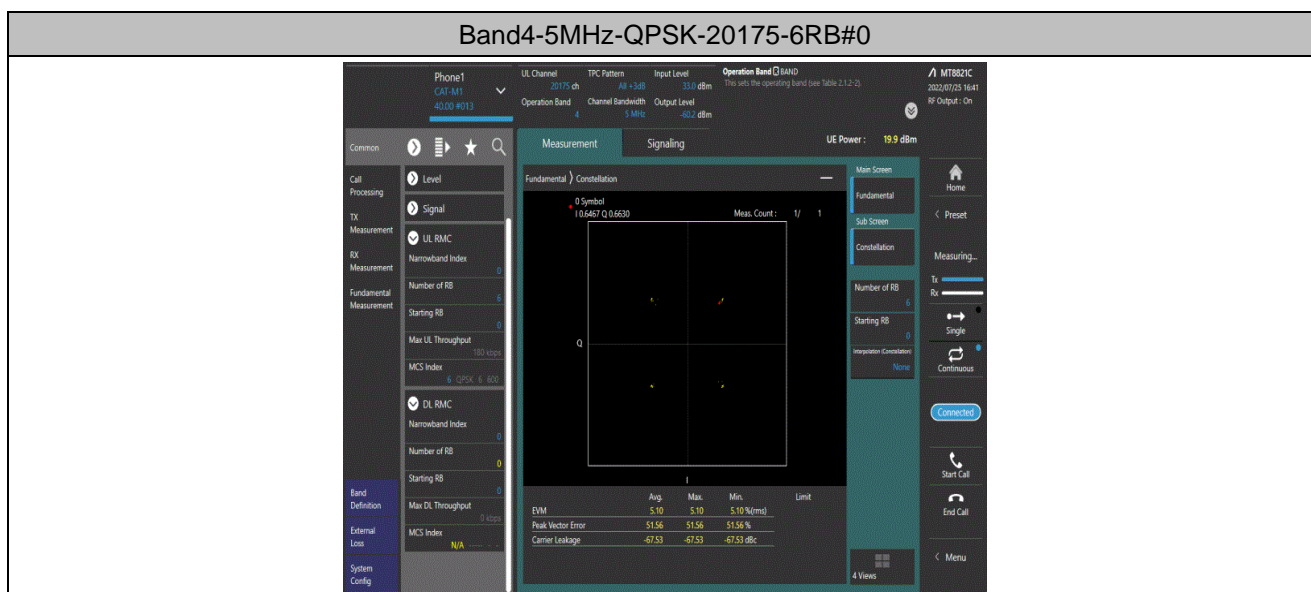
Page: 6 of 28

## Modulation Characteristics

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band4	5MHz	QPSK	20175	6RB#0	PASS	PASS

### Test Graphs



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Rev.: 01

Page: 7 of 28

## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.086	1.14	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.084	1.26	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.084	1.15	PASS
Band4	3MHz	QPSK	19965	6RB#0	1.069	1.24	PASS
Band4	3MHz	QPSK	20175	6RB#0	1.110	1.33	PASS
Band4	3MHz	QPSK	20385	6RB#0	1.110	1.33	PASS
Band4	5MHz	QPSK	19975	6RB#0	1.102	1.25	PASS
Band4	5MHz	QPSK	20175	6RB#0	1.128	1.35	PASS
Band4	5MHz	QPSK	20375	6RB#0	1.124	1.42	PASS



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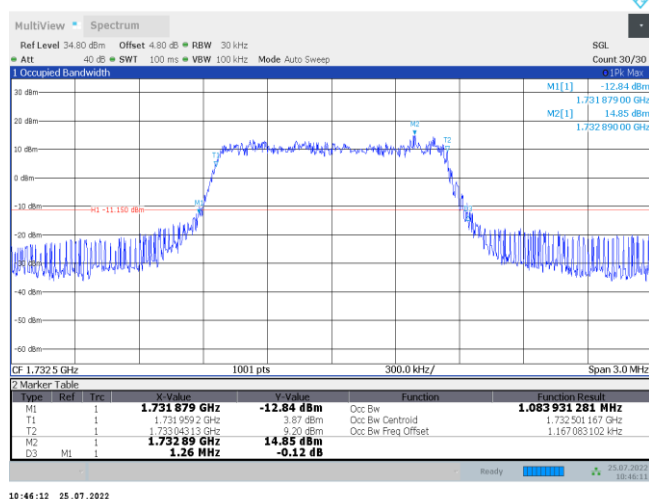
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### Test Graphs

Band4-1.4MHz-QPSK-19957-6RB#0



Band4-1.4MHz-QPSK-20175-6RB#0



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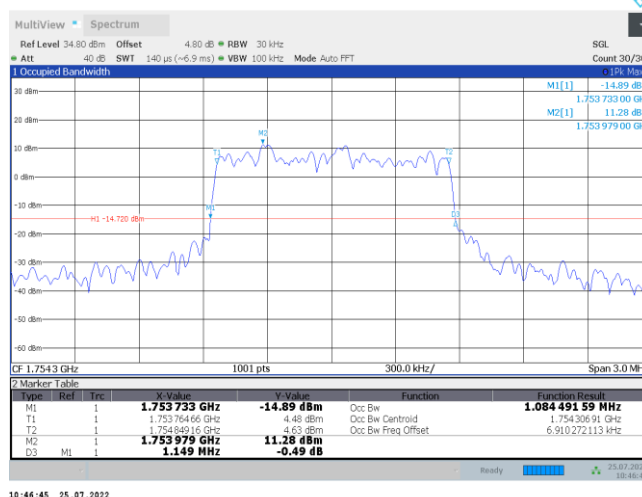


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Rev.: 01

Page: 9 of 28

### Band4-1.4MHz-QPSK-20393-6RB#0



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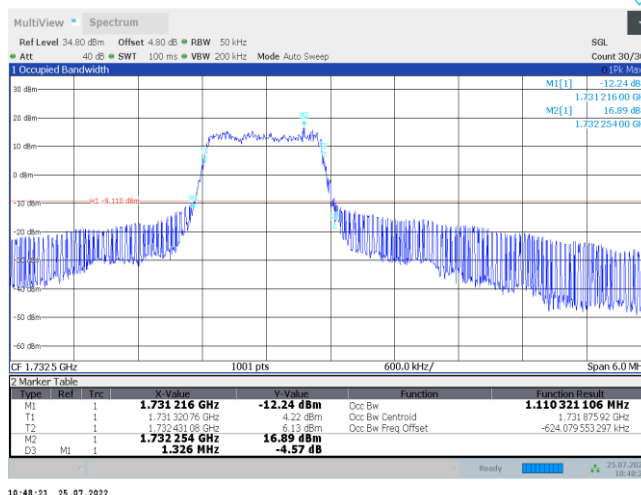
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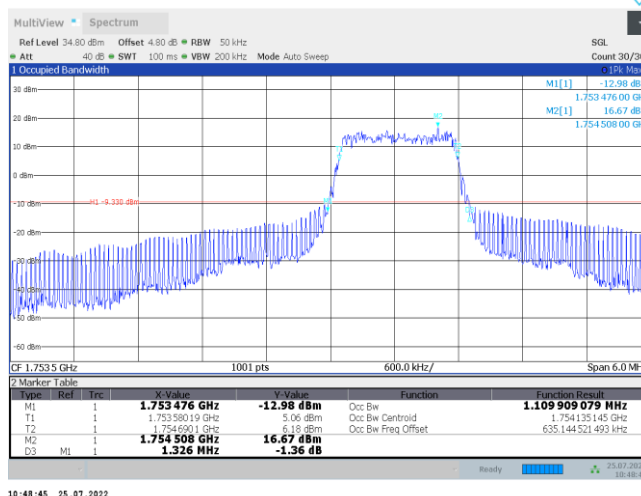
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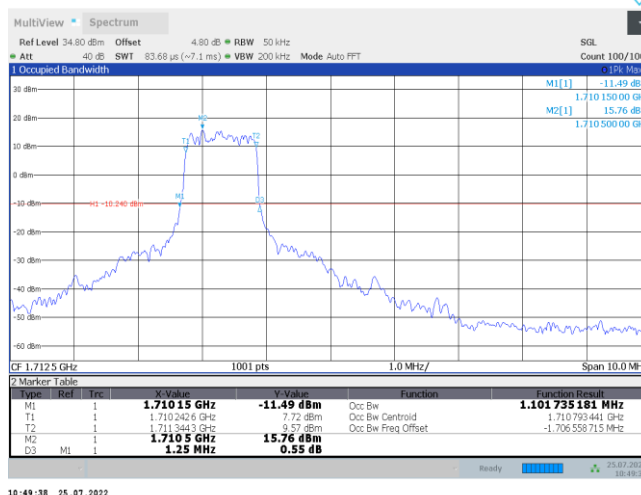
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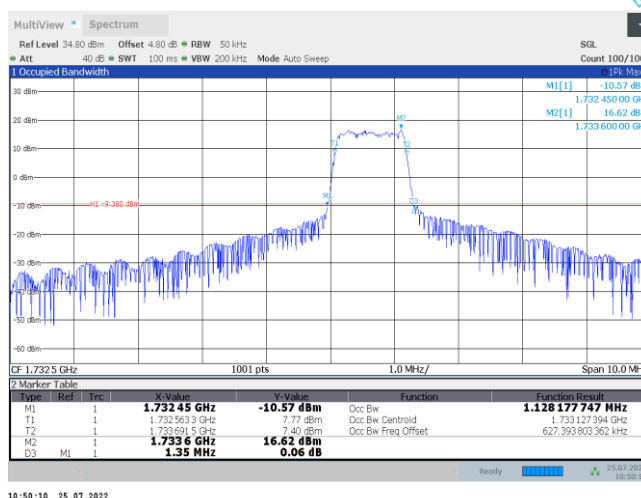
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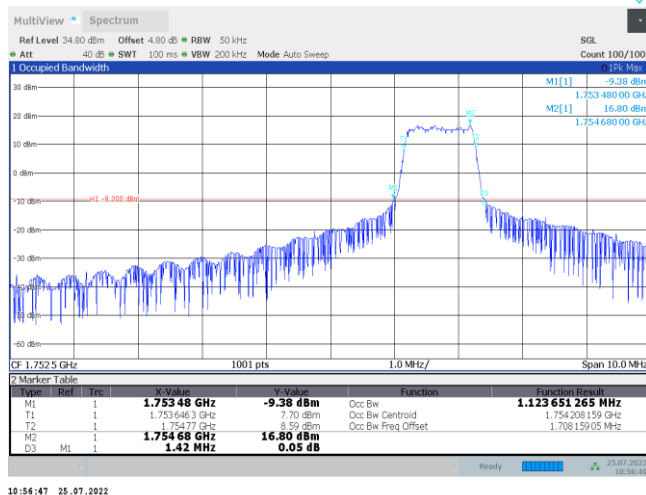
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Rev.: 01

Page: 12 of 28

### Band4-5MHz-QPSK-20375-6RB#0



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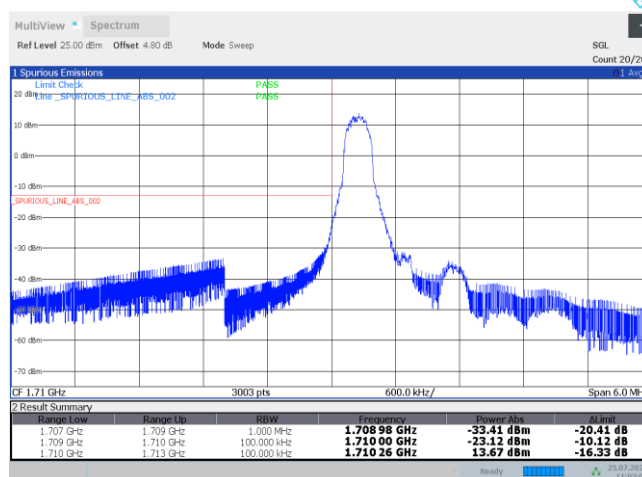
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Page: 13 of 28

### Band Edge

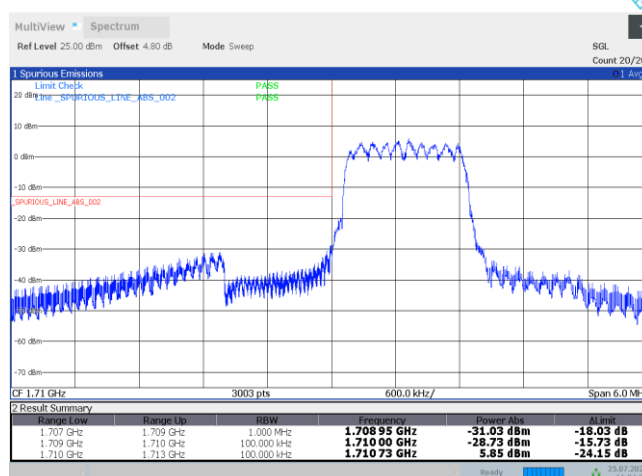
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Band4-1.4MHz-QPSK-19957-1RB#0



11:03:07 25.07.2022

Band4-1.4MHz-QPSK-19957-6RB#0



11:04:04 25.07.2022



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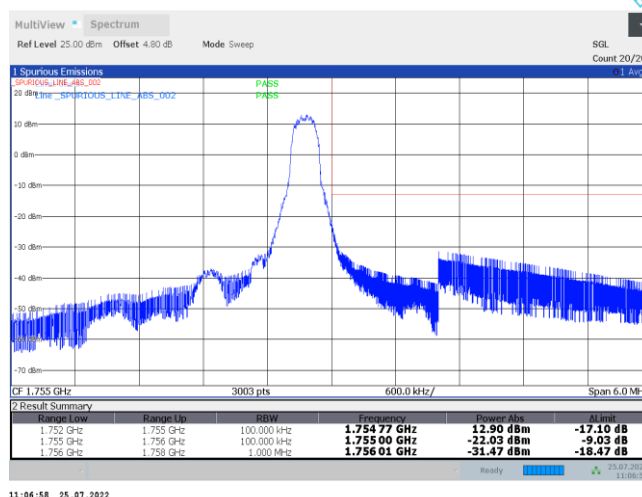


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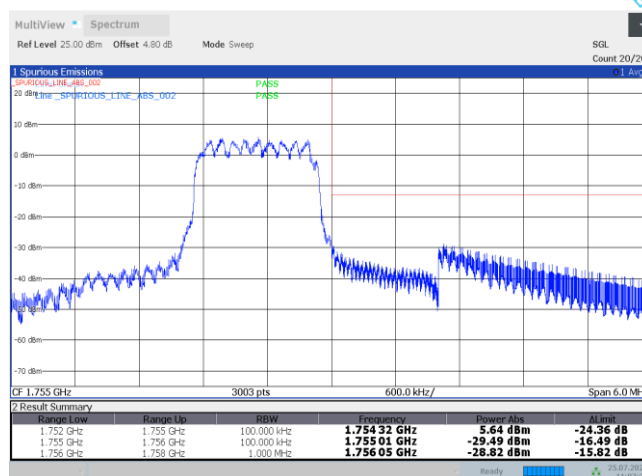
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11:06:58 25.07.2022

### Band4-1.4MHz-QPSK-20393-6RB#0



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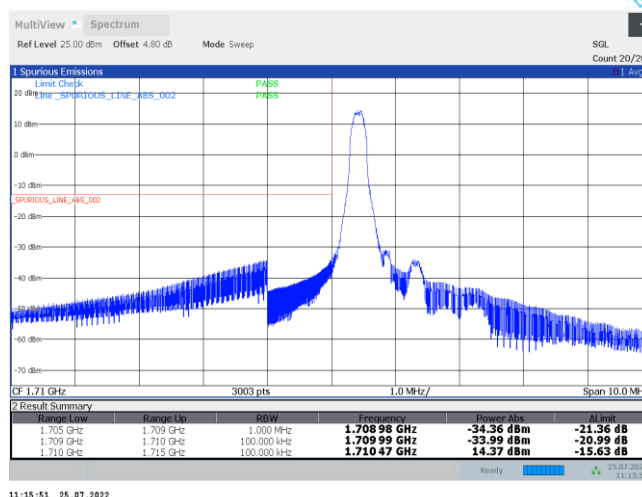
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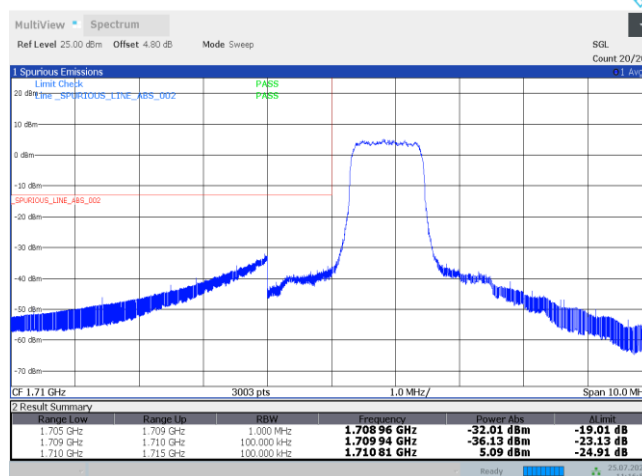
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11:15:51 25.07.2022

### Band4-3MHz-QPSK-19965-6RB#0



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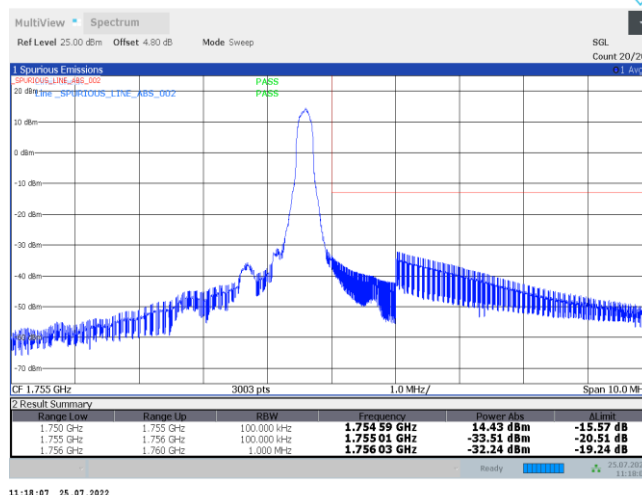
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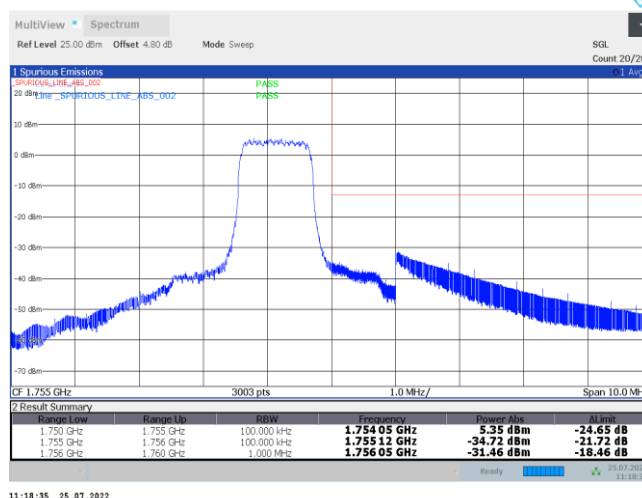
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### Band4-3MHz-QPSK-20385-1RB#14



### Band4-3MHz-QPSK-20385-6RB#0



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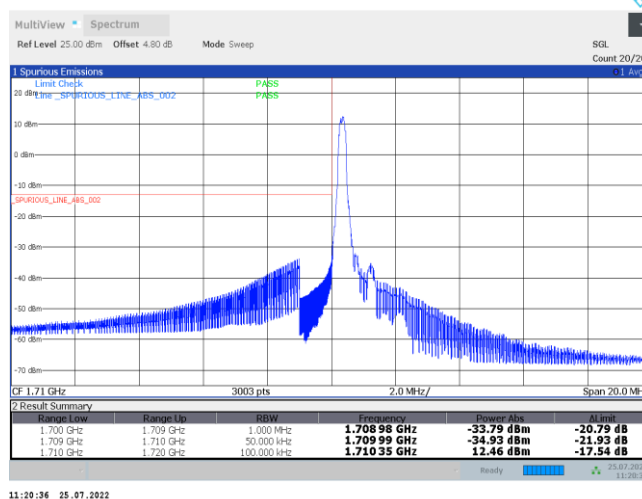
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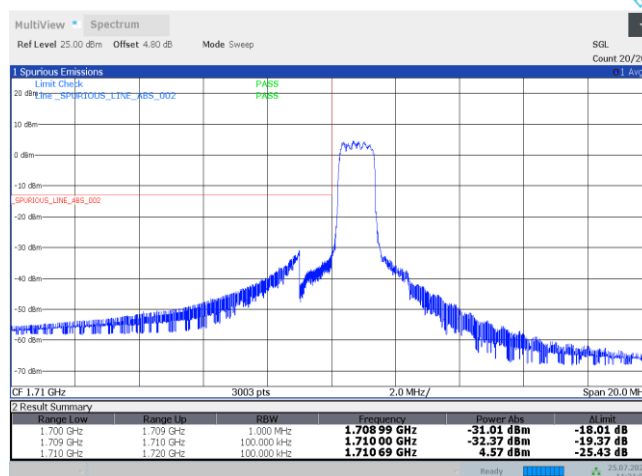
Page: 17 of 28

### Band4-5MHz-QPSK-19975-1RB#0



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### Band4-5MHz-QPSK-19975-6RB#0



11:21:06 25.07.2022



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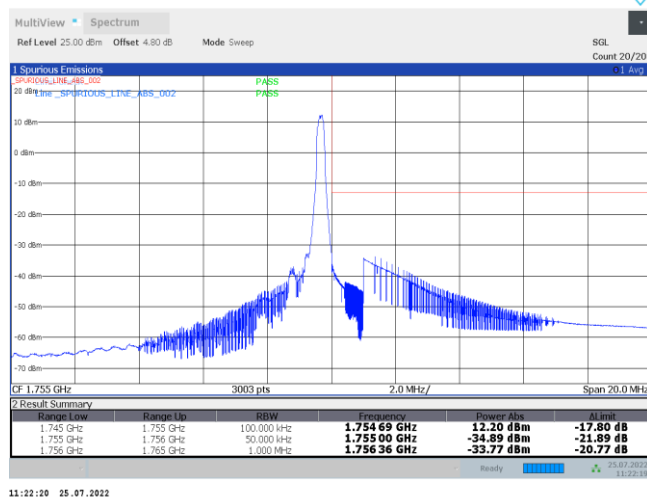
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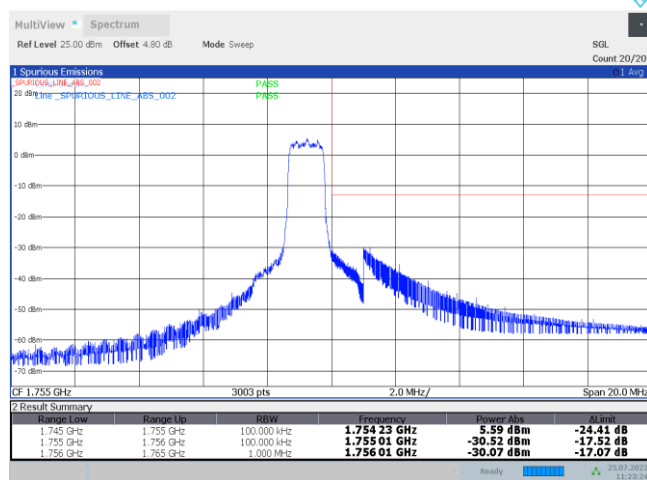
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### Band4-5MHz+-QPSK-20375-1RB#24



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### Band4-5MHz-QPSK-20375-6RB#0



11:23:24 25.07.2022



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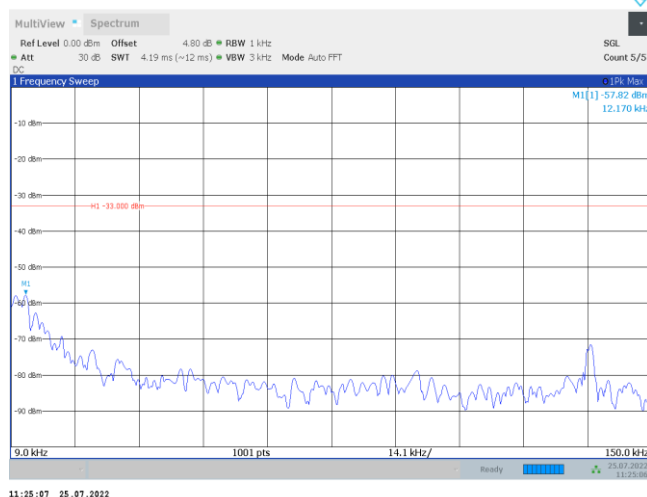
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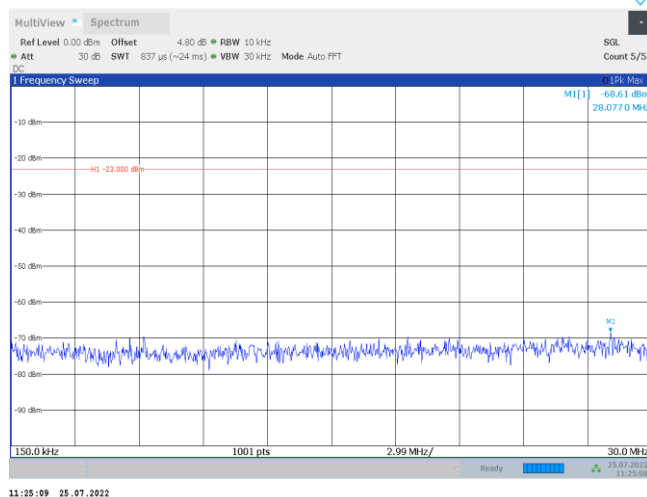
### Conducted Spurious Emission

#### Test Graphs

Band4-20MHz-QPSK-19975-1RB#0-Range1:0.009~0.15MHz



Band4-20MHz-QPSK-19975-1RB#0-Range2:0.15~30MHz



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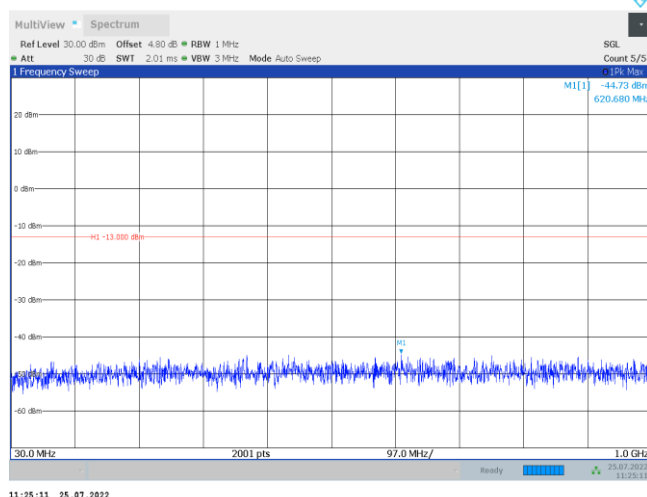
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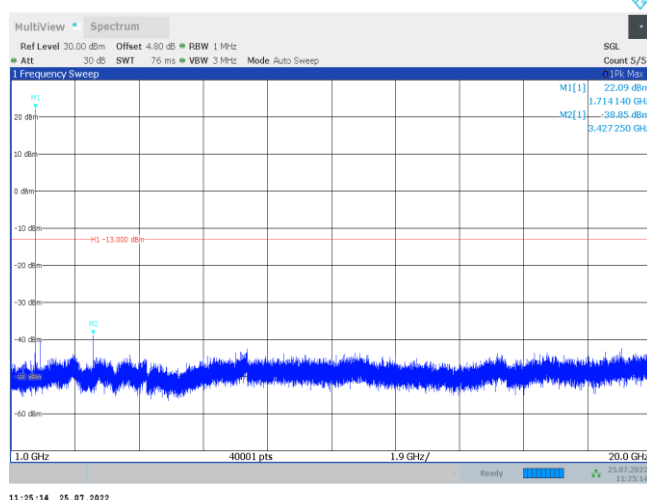
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### Band4-20MHz-QPSK-19975-1RB#0-Range3:30~1000MHz



### Band4-20MHz-QPSK-19975-1RB#0-Range4:1000~20000MHz



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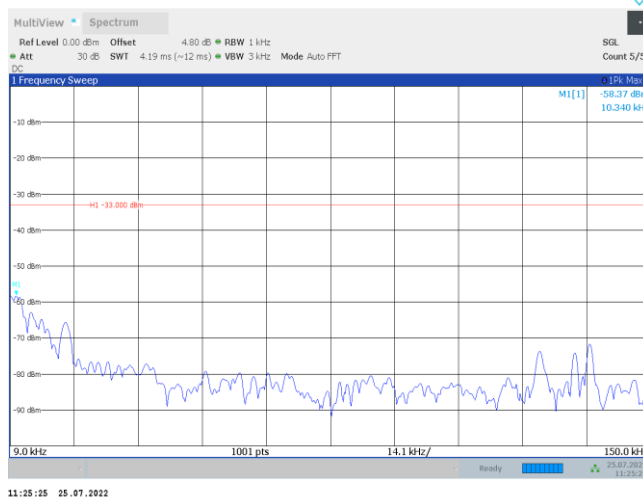
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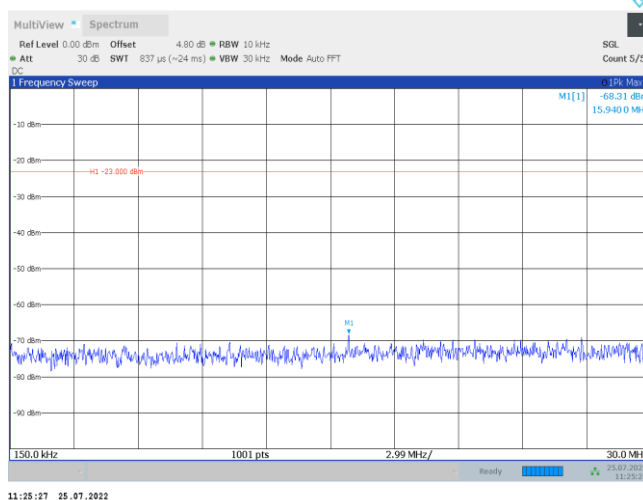
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Page: 21 of 28

### Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



### Band4-20MHz-QPSK-20175-1RB#0-Range2:0.15~30MHz



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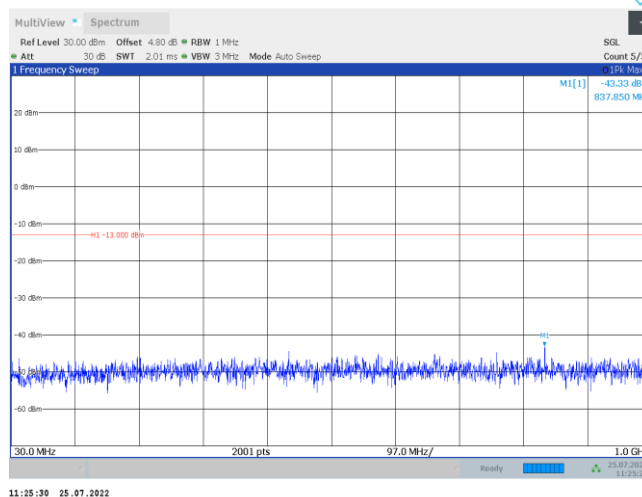
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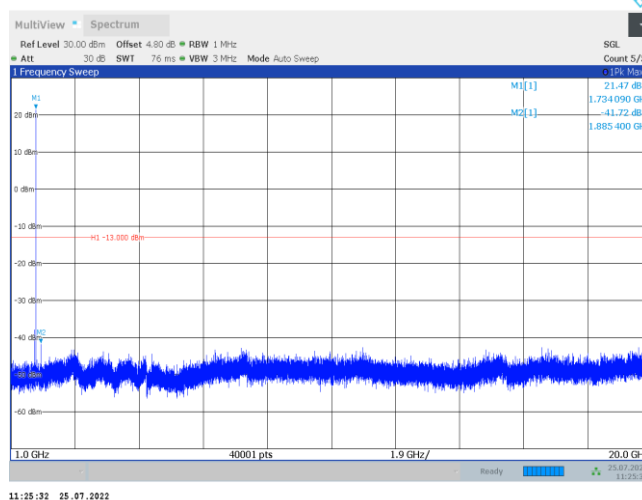
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### Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz



### Band4-20MHz-QPSK-20175-1RB#0-Range4:1000~20000MHz



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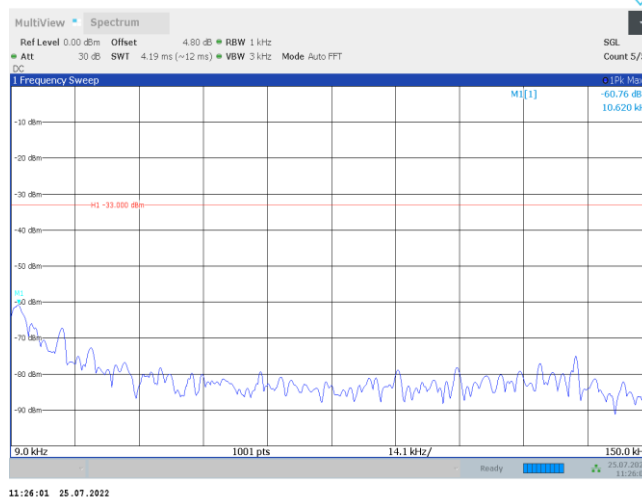
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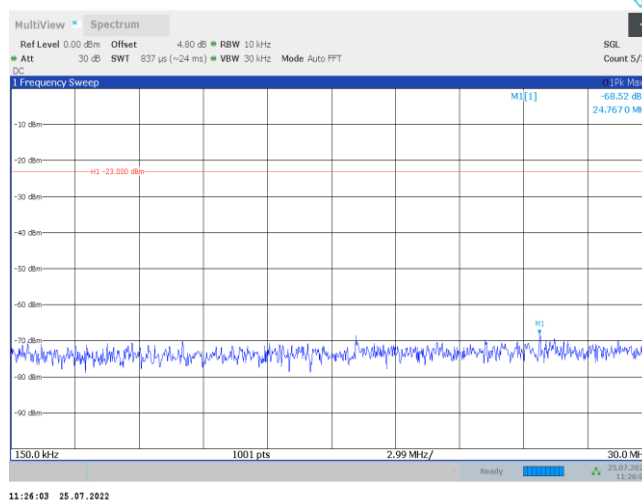
Rev.: 01

Page: 23 of 28

### Band4-20MHz-QPSK-20375-1RB#0-Range1:0.009~0.15MHz



### Band4-20MHz-QPSK-20375-1RB#0-Range2:0.15~30MHz



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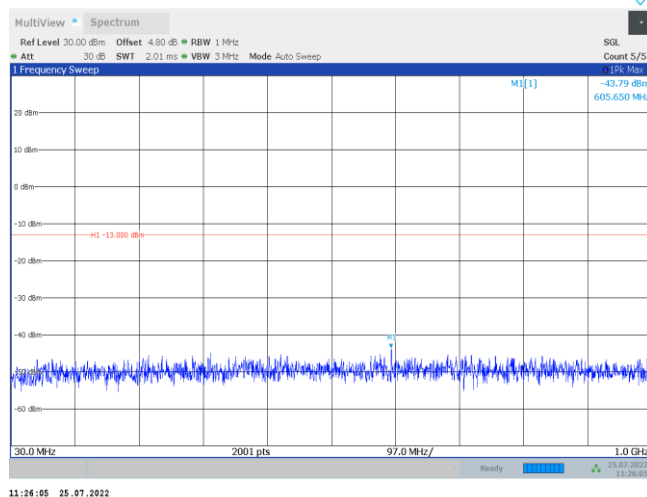


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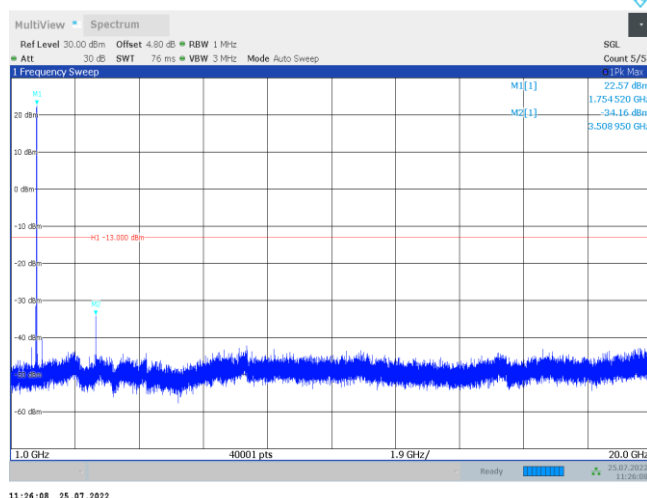
Rev.: 01

Page: 24 of 28

### Band4-20MHz-QPSK-20375-1RB#0-Range3:30~1000MHz



### Band4-20MHz-QPSK-20375-1RB#0-Range4:1000~20000MHz



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Report No.: SEWM2207000119RG01

Rev.: 01

Page: 25 of 28

## Field Strength of Spurious Radiation

**Test Band = CAT M1 Band 4\_ 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	3423	78.73	-46.28	29.45	-33.35	-13.00	20.35	149	239	Horizontal
2	5133.2700	47.70	-45.34	32.95	-59.95	-13.00	46.95	234	164	Horizontal
3	6844.3600	47.12	-44.14	35.89	-56.39	-13.00	43.39	168	254	Horizontal
4	8555.4500	44.36	-41.46	37.66	-54.70	-13.00	41.70	226	194	Horizontal
5	10266.5400	39.61	-39.23	38.83	-56.05	-13.00	43.05	251	60	Horizontal
6	11977.6300	35.75	-37.51	38.95	-58.08	-13.00	45.08	246	30	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	3423	69.21	-46.28	29.45	-42.87	-13.00	29.87	214	269	Vertical
2	5133.2700	48.62	-45.34	32.95	-59.03	-13.00	46.03	156	88	Vertical
3	6844.3600	48.63	-44.14	35.89	-54.88	-13.00	41.88	253	208	Vertical
4	8555.4500	44.19	-41.46	37.66	-54.87	-13.00	41.87	228	103	Vertical
5	10266.5400	38.34	-39.23	38.83	-57.32	-13.00	44.32	237	255	Vertical
6	11977.6300	36.26	-37.51	38.95	-57.57	-13.00	44.57	271	43	Vertical



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Rev.: 01

Page: 26 of 28

**Test Band = CAT M1 Band 4\_ 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	3447.1800	77.93	-46.27	29.47	-34.13	-13.00	21.13	161	312	Horizontal
2	5170.7700	48.97	-45.31	32.97	-58.62	-13.00	45.62	158	132	Horizontal
3	6894.3600	47.65	-44.10	35.95	-55.76	-13.00	42.76	215	177	Horizontal
4	8617.9500	44.07	-41.40	37.78	-54.81	-13.00	41.81	217	59	Horizontal
5	10341.5400	40.39	-39.06	38.85	-55.08	-13.00	42.08	246	132	Horizontal
6	12065.1300	36.48	-37.44	39.02	-57.20	-13.00	44.20	238	283	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	3447.1800	65.23	-46.27	29.47	-46.83	-13.00	33.83	241	255	Vertical
2	5170.7700	47.52	-45.31	32.97	-60.07	-13.00	47.07	258	269	Vertical
3	6894.3600	47.03	-44.10	35.95	-56.38	-13.00	43.38	263	60	Vertical
4	8617.9500	45.12	-41.40	37.78	-53.76	-13.00	40.76	198	46	Vertical
5	10341.5400	40.13	-39.06	38.85	-55.34	-13.00	42.34	176	60	Vertical
6	12065.1300	35.91	-37.44	39.02	-57.77	-13.00	44.77	193	300	Vertical



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Report No.: SEWM2207000119RG01

Rev.: 01

Page: 27 of 28

**Test Band = CAT M1 Band 4\_ 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	3472.1800	76.68	-46.27	29.50	-35.35	-13.00	22.35	162	225	Horizontal
2	5208.2700	48.46	-45.26	32.98	-59.08	-13.00	46.08	158	59	Horizontal
3	6944.3600	47.36	-43.85	36.01	-55.74	-13.00	42.74	214	194	Horizontal
4	8680.4500	44.12	-41.62	37.88	-54.88	-13.00	41.88	239	179	Horizontal
5	10416.5400	37.66	-38.97	38.88	-57.70	-13.00	44.70	248	88	Horizontal
6	12152.6300	37.03	-37.42	39.09	-56.56	-13.00	43.56	237	225	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	3473.25	64.33	-46.27	29.50	-47.70	-13.00	34.70	156	299	Vertical
2	5208.2700	47.77	-45.26	32.98	-59.77	-13.00	46.77	161	195	Vertical
3	6944.3600	48.22	-43.85	36.01	-54.88	-13.00	41.88	213	61	Vertical
4	8680.4500	43.73	-41.62	37.88	-55.27	-13.00	42.27	251	44	Vertical
5	10416.5400	38.77	-38.97	38.88	-56.59	-13.00	43.59	246	210	Vertical
6	12152.6300	36.09	-37.42	39.09	-57.50	-13.00	44.50	217	359	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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Rev.: 01

Page: 28 of 28

## Frequency Stability

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	5MHz	QPSK	20175	6RB#0	VL	NT	-3.00	-0.001732	PASS
Band4	5MHz	QPSK	20175	6RB#0	VN	NT	-1.80	-0.001039	PASS
Band4	5MHz	QPSK	20175	6RB#0	VH	NT	-8.10	-0.004675	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	5MHz	QPSK	20175	6RB#0	NV	-30	-2.70	-0.001558	PASS
Band4	5MHz	QPSK	20175	6RB#0	NV	-20	1.40	0.000808	PASS
Band4	5MHz	QPSK	20175	6RB#0	NV	-10	-7.20	-0.004156	PASS
Band4	5MHz	QPSK	20175	6RB#0	NV	0	-1.20	-0.000693	PASS
Band4	5MHz	QPSK	20175	6RB#0	NV	10	-4.40	-0.002540	PASS
Band4	5MHz	QPSK	20175	6RB#0	NV	20	-4.60	-0.002655	PASS
Band4	5MHz	QPSK	20175	6RB#0	NV	30	-1.00	-0.000577	PASS
Band4	5MHz	QPSK	20175	6RB#0	NV	40	-5.10	-0.002944	PASS
Band4	5MHz	QPSK	20175	6RB#0	NV	50	1.90	0.001097	PASS

---End of Attachment---



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