

Date: 16 MAY 2023 11:14:19

### Band2-5MHz-QPSK-19175-1RB#24

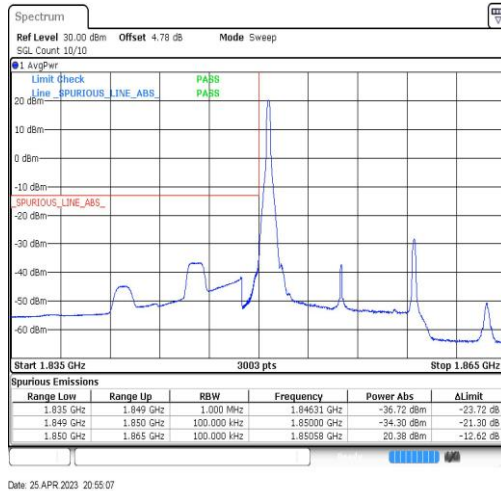


Date: 25 APR 2023 20:54:20

### Band2-5MHz-QPSK-19175-25RB#0

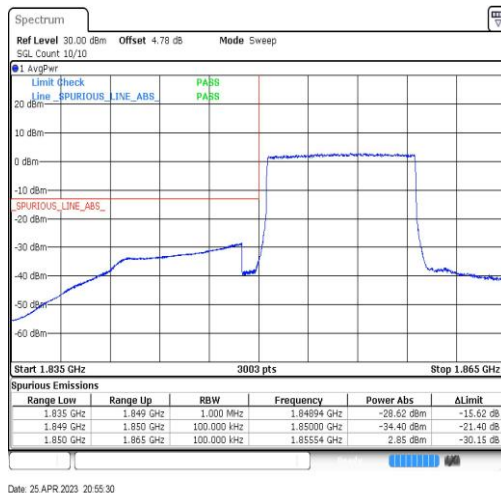


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Date: 25 APR 2023 20:55:07

### Band2-10MHz-QPSK-18650-1RB#0

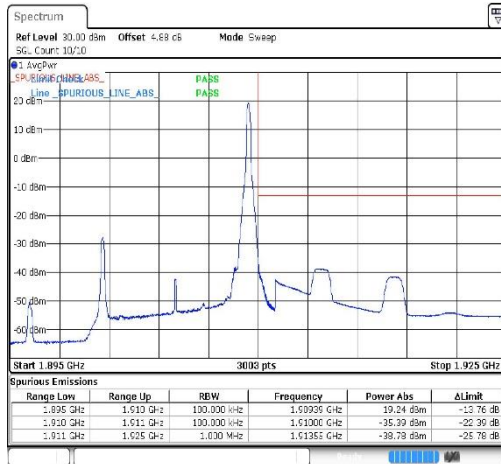


Date: 25 APR 2023 20:55:30

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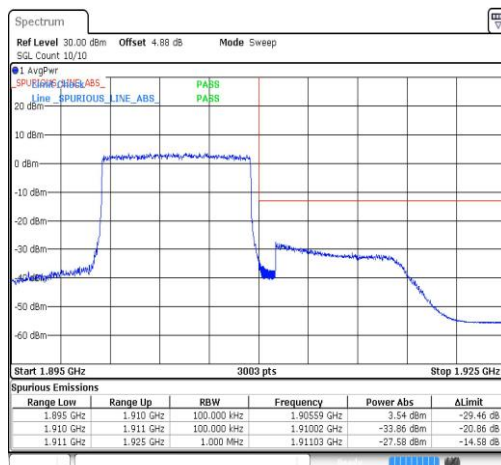


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Date: 16 MAY 2023 11:18:06

### Band2-10MHz-QPSK-19150-1RB#49

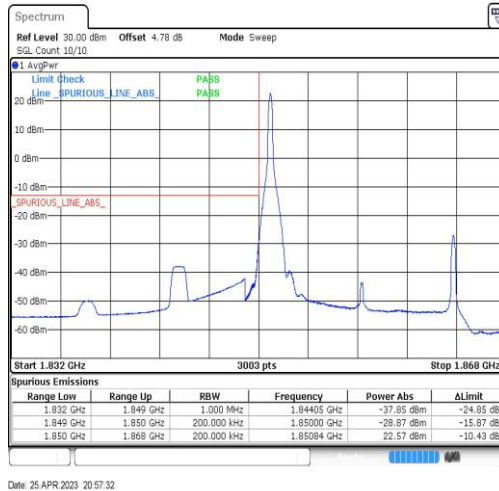


Date: 25 APR 2023 20:58:41

### Band2-10MHz-QPSK-19150-50RB#0



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Date: 25 APR 2023 20:57:32

### Band2-15MHz-QPSK-18675-1RB#0

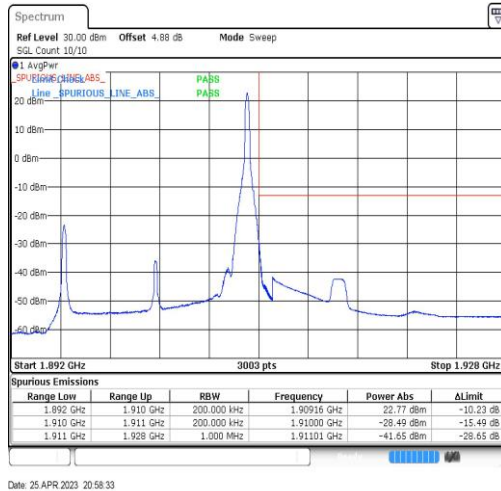


Date: 25 APR 2023 20:57:55

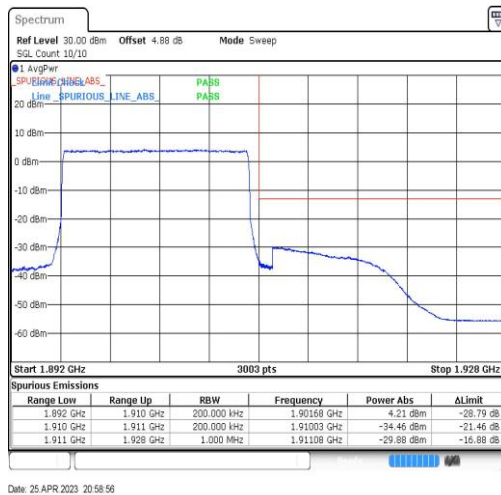
### Band2-15MHz-QPSK-18675-75RB#0



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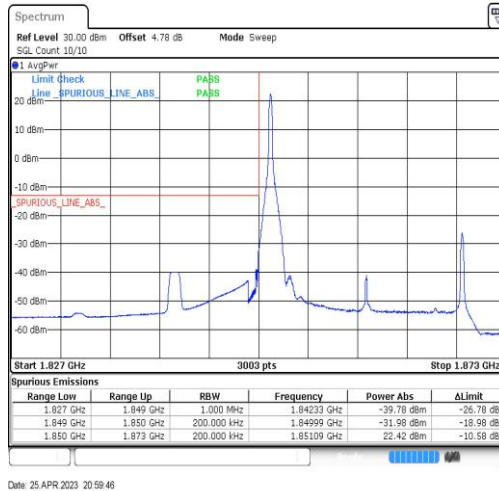
Band2-15MHz-QPSK-19125-1RB#74



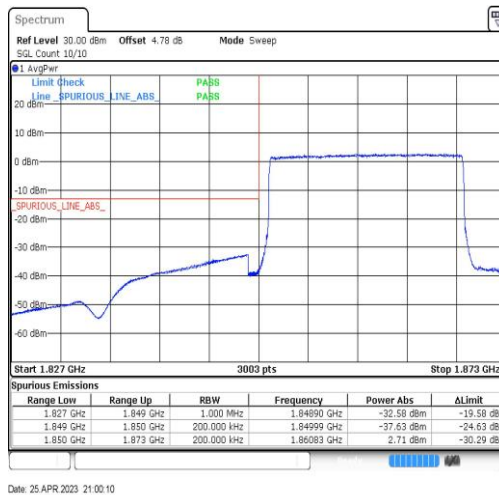
Band2-15MHz-QPSK-19125-75RB#0



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Band2-20MHz-QPSK-18700-1RB#0

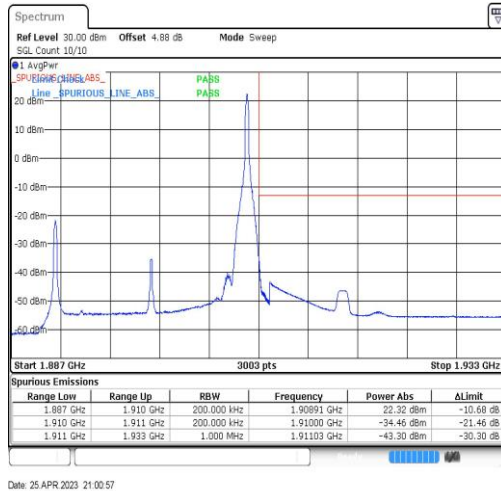


Band2-20MHz-QPSK-18700-100RB#0

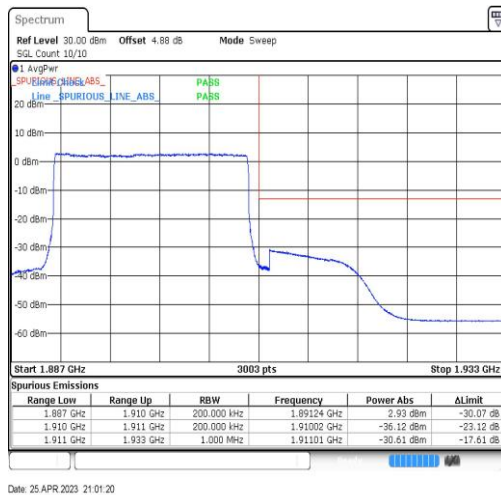


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Band2-20MHz-QPSK-19100-1RB#99



Band2-20MHz-QPSK-19100-100RB#0

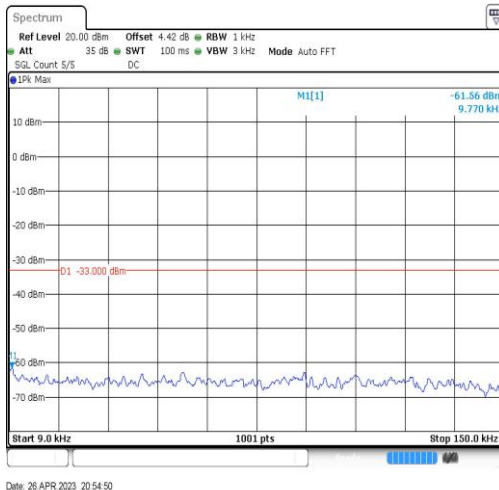


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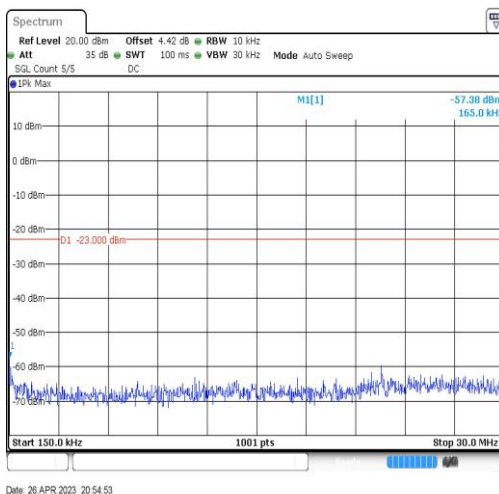
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## Conducted Spurious Emission

### Test Graphs



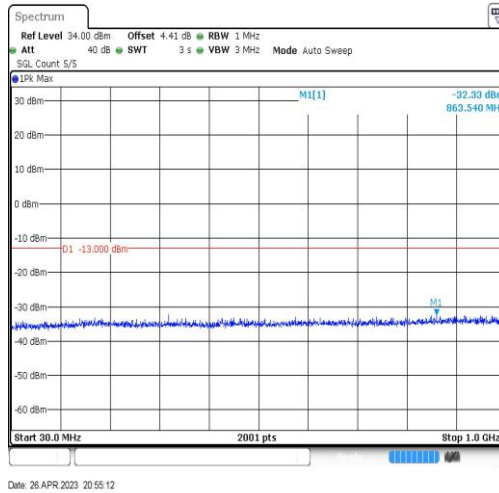
Band2-20MHz-QPSK-18700-1RB#0-Range1:0.009~0.15MHz



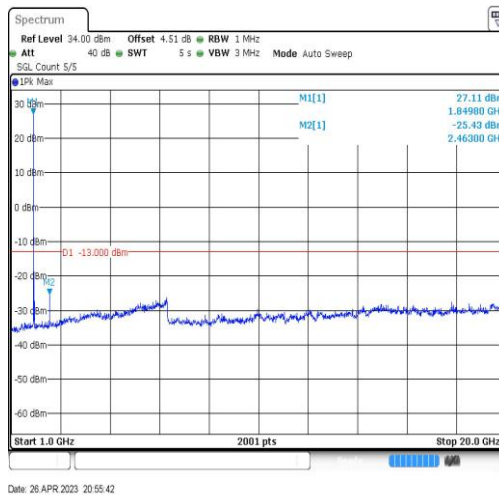
Band2-20MHz-QPSK-18700-1RB#0-Range2:0.15~30MHz







Band2-20MHz-QPSK-18700-1RB#0-Range3:30~1000MHz



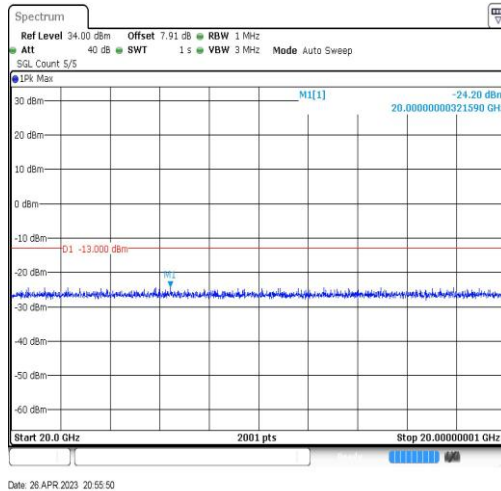
Band2-20MHz-QPSK-18700-1RB#0-Range4:1000~20000MHz



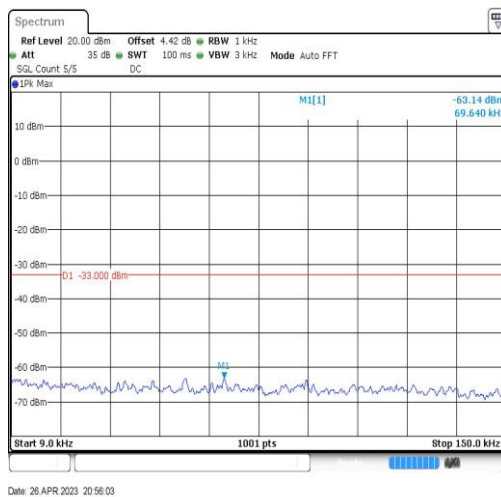
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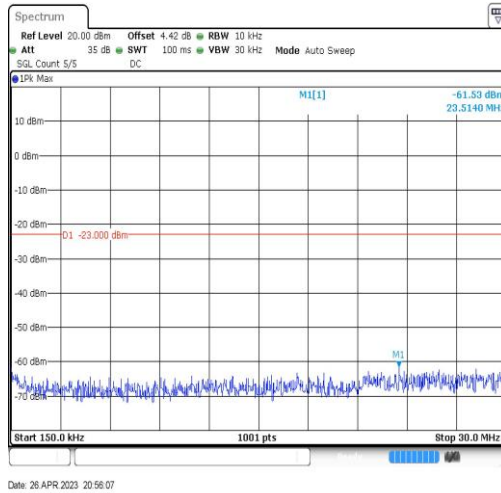
Band2-20MHz-QPSK-18700-1RB#0-Range5:20000~40000MHz



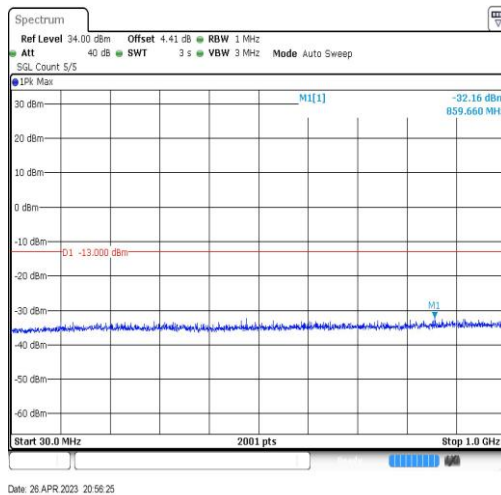
Band2-20MHz-QPSK-18900-1RB#0-Range1:0.009~0.15MHz



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Band2-20MHz-QPSK-18900-1RB#0-Range2:0.15~30MHz

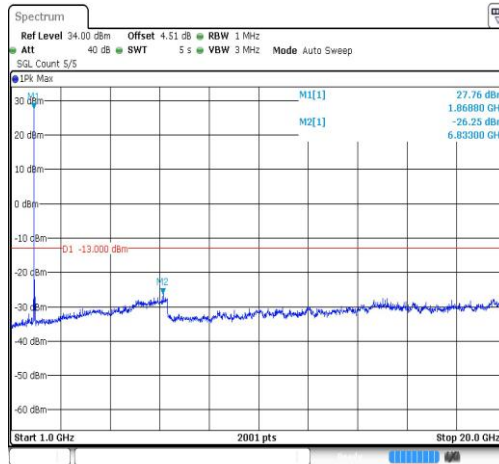


Band2-20MHz-QPSK-18900-1RB#0-Range3:30~1000MHz



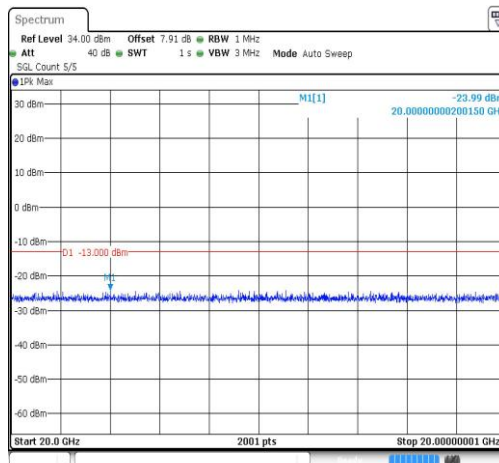
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Date: 26 APR 2023 20:56:55

Band2-20MHz-QPSK-18900-1RB#0-Range4:1000~20000MHz



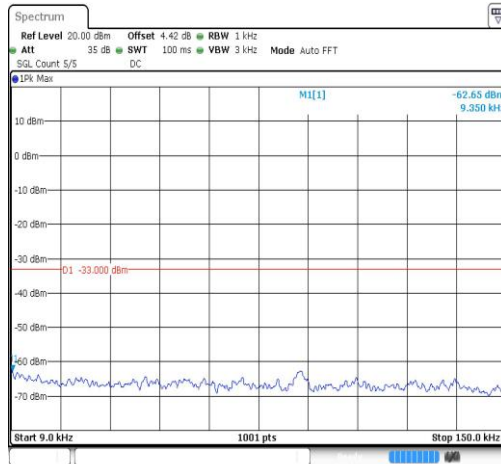
Date: 26 APR 2023 20:57:04

Band2-20MHz-QPSK-18900-1RB#0-Range5:20000~40000MHz



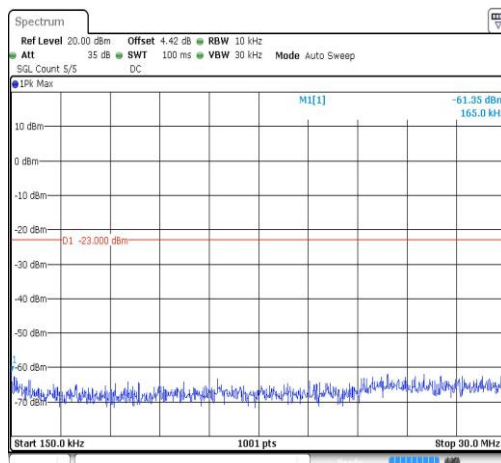
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Date: 26 APR 2023 20:57:17

Band2-20MHz-QPSK-19100-1RB#0-Range1:0.009~0.15MHz

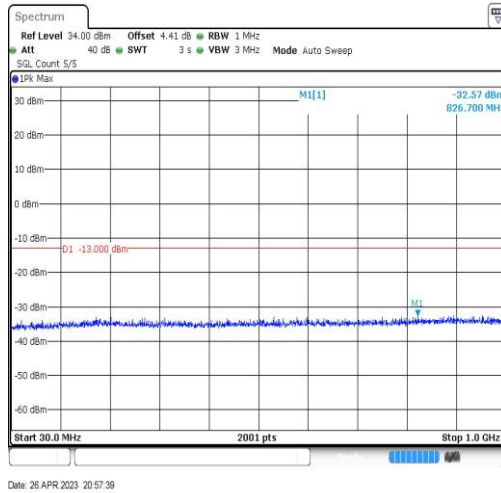


Date: 26 APR 2023 20:57:21

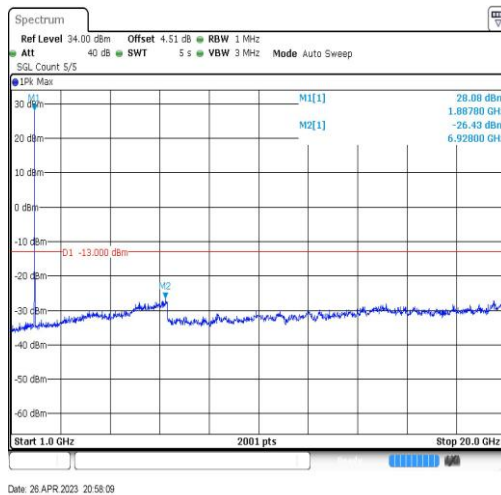
Band2-20MHz-QPSK-19100-1RB#0-Range2:0.15~30MHz



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Band2-20MHz-QPSK-19100-1RB#0-Range3:30~1000MHz

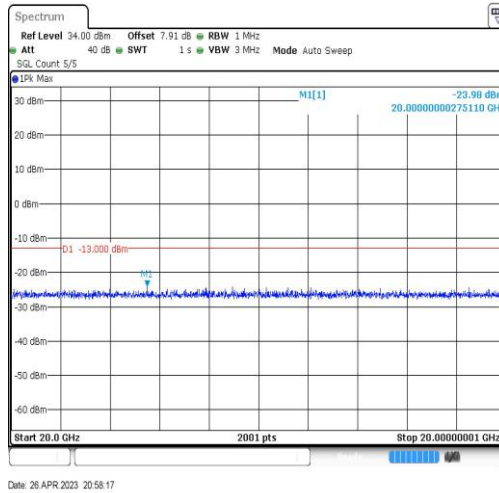


Band2-20MHz-QPSK-19100-1RB#0-Range4:1000~20000MHz



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Band2-20MHz-QPSK-19100-1RB#0-Range5:20000~40000MHz



## Field Strength of Spurious Radiation

Test Band = LTE\_2 ANT 13\_20MHz\_TM1

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	3702.0351	56.31	-44.52	29.31	-54.16	-13.00	41.16	284	69	Horizontal
2	5355.8678	51.76	-42.13	32.24	-53.39	-13.00	40.39	169	198	Horizontal
3	7872.2436	50.48	-37.60	36.67	-45.71	-13.00	32.71	244	38	Horizontal
4	9516.3258	51.80	-35.95	37.80	-41.61	-13.00	28.61	299	206	Horizontal
5	11064.4032	51.29	-37.37	40.16	-41.18	-13.00	28.18	216	50	Horizontal
6	15204.6102	54.50	-35.33	39.71	-36.38	-13.00	23.38	269	222	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	3702.0351	52.02	-44.52	29.31	-58.45	-13.00	45.45	261	64	Vertical
2	5700.135	52.01	-41.14	32.50	-51.89	-13.00	38.89	310	195	Vertical
3	6875.4438	51.31	-39.28	35.50	-47.73	-13.00	34.73	188	124	Vertical
4	9458.5729	52.07	-35.75	37.55	-41.39	-13.00	28.39	263	299	Vertical
5	11004.4002	50.90	-37.01	40.10	-41.27	-13.00	28.27	316	176	Vertical
6	15202.3601	54.39	-35.31	39.70	-36.48	-13.00	23.48	199	299	Vertical



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**Test Band = LTE\_2 ANT 13 \_20MHz \_TM1**  
**Test Channel = MCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3741.7871	53.81	-44.69	29.55	-56.59	-13.00	43.59	189	202	Horizontal
2	5613.1307	52.35	-41.40	32.57	-51.74	-13.00	38.74	346	334	Horizontal
3	7846.7423	50.64	-37.70	36.79	-45.53	-13.00	32.53	334	302	Horizontal
4	9466.8233	51.90	-35.80	37.60	-41.56	-13.00	28.56	242	150	Horizontal
5	11046.4023	51.19	-37.26	40.15	-41.18	-13.00	28.18	251	134	Horizontal
6	15197.1099	55.19	-35.40	39.72	-35.75	-13.00	22.75	150	294	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3601.5301	51.90	-44.35	28.91	-58.80	-13.00	45.80	165	278	Vertical
2	5694.1347	52.40	-41.16	32.50	-51.52	-13.00	38.52	365	118	Vertical
3	7852.7426	50.61	-37.68	36.78	-45.55	-13.00	32.55	400	114	Vertical
4	9448.8224	51.84	-35.69	37.50	-41.61	-13.00	28.61	148	338	Vertical
5	10985.6493	51.27	-37.04	40.11	-40.92	-13.00	27.92	226	226	Vertical
6	15198.6099	54.25	-35.34	39.71	-36.64	-13.00	23.64	325	70	Vertical



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**Test Band = LTE\_2 ANT 13 \_20MHz \_TM1**

**Test Channel = HCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3782.2891	55.41	-44.86	29.73	-54.98	-13.00	41.98	263	231	Horizontal
2	5691.1346	52.05	-41.17	32.50	-51.88	-13.00	38.88	169	135	Horizontal
3	7862.4931	50.46	-37.64	36.73	-45.71	-13.00	32.71	118	203	Horizontal
4	9453.3227	51.91	-35.72	37.52	-41.55	-13.00	28.55	254	355	Horizontal
5	11027.6514	51.02	-37.15	40.13	-41.26	-13.00	28.26	177	82	Horizontal
6	16592.9296	55.07	-35.36	39.49	-36.06	-13.00	23.06	294	219	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3600.78	52.06	-44.35	28.91	-58.64	-13.00	45.64	261	202	Vertical
2	5687.3844	52.01	-41.18	32.50	-51.93	-13.00	38.93	284	70	Vertical
3	7719.986	50.78	-37.63	36.64	-45.47	-13.00	32.47	166	18	Vertical
4	9472.0736	52.19	-35.83	37.63	-41.27	-13.00	28.27	236	158	Vertical
5	11029.1515	51.04	-37.16	40.13	-41.25	-13.00	28.25	284	190	Vertical
6	15205.3603	54.42	-35.34	39.71	-36.47	-13.00	23.47	222	314	Vertical



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**Test Band = LTE\_2 ANT 31 \_20MHz \_TM1**  
**Test Channel = LCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3702.0351	55.04	-44.52	29.31	-55.43	-13.00	42.43	224	57	Horizontal
2	5676.8838	51.66	-41.21	32.50	-52.31	-13.00	39.31	216	188	Horizontal
3	7467.2234	50.88	-38.29	36.83	-45.84	-13.00	32.84	249	294	Horizontal
4	9478.8239	51.98	-35.88	37.67	-41.49	-13.00	28.49	266	41	Horizontal
5	11001.4001	50.52	-36.99	40.10	-41.63	-13.00	28.63	213	133	Horizontal
6	15186.6093	54.58	-35.82	39.78	-36.72	-13.00	23.72	229	93	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3702.0351	51.58	-44.52	29.31	-58.89	-13.00	45.89	246	256	Vertical
2	5702.3851	51.67	-41.15	32.50	-52.24	-13.00	39.24	116	220	Vertical
3	7834.7417	50.19	-37.75	36.74	-46.08	-13.00	33.08	263	327	Vertical
4	9463.0732	51.72	-35.78	37.58	-41.74	-13.00	28.74	249	37	Vertical
5	11003.6502	50.74	-37.00	40.10	-41.42	-13.00	28.42	226	260	Vertical
6	15209.1105	53.93	-35.37	39.72	-36.98	-13.00	23.98	234	224	Vertical



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**Test Band = LTE\_2 ANT 31 \_20MHz \_TM1**  
**Test Channel = MCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3741.7871	54.33	-44.69	29.55	-56.07	-13.00	43.07	135	160	Horizontal
2	5692.6346	51.68	-41.16	32.50	-52.24	-13.00	39.24	266	81	Horizontal
3	7850.4925	50.08	-37.69	36.80	-46.07	-13.00	33.07	234	97	Horizontal
4	9477.3239	51.90	-35.87	37.66	-41.57	-13.00	28.57	241	195	Horizontal
5	10986.3993	50.61	-37.04	40.11	-41.58	-13.00	28.58	294	93	Horizontal
6	15215.1108	54.01	-35.43	39.73	-36.95	-13.00	23.95	222	234	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3909.7955	50.62	-44.20	29.74	-59.10	-13.00	46.10	212	74	Vertical
2	5709.1355	51.50	-41.17	32.50	-52.43	-13.00	39.43	164	141	Vertical
3	7866.2433	50.22	-37.62	36.70	-45.96	-13.00	32.96	251	129	Vertical
4	9451.8226	51.63	-35.71	37.51	-41.83	-13.00	28.83	236	26	Vertical
5	11101.1551	50.98	-37.61	40.20	-41.69	-13.00	28.69	215	248	Vertical
6	15207.6104	53.90	-35.36	39.72	-37.00	-13.00	24.00	266	358	Vertical



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**Test Band = LTE\_2 ANT 31 \_20MHz \_TM1**

**Test Channel = HCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3782.2891	53.95	-44.86	29.73	-56.44	-13.00	43.44	155	192	Horizontal
2	5714.3857	51.76	-41.18	32.50	-52.18	-13.00	39.18	136	160	Horizontal
3	7424.4712	50.47	-38.28	36.75	-46.32	-13.00	33.32	264	117	Horizontal
4	9476.5738	51.91	-35.86	37.66	-41.55	-13.00	28.55	221	200	Horizontal
5	11004.4002	50.70	-37.01	40.10	-41.47	-13.00	28.47	231	160	Horizontal
6	15217.3609	54.25	-35.45	39.73	-36.73	-13.00	23.73	226	180	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3735.7868	51.24	-44.66	29.51	-59.17	-13.00	46.17	322	104	Vertical
2	5666.3833	51.82	-41.24	32.50	-52.18	-13.00	39.18	169	92	Vertical
3	7460.473	50.48	-38.29	36.82	-46.25	-13.00	33.25	264	302	Vertical
4	9434.5717	51.83	-35.60	37.44	-41.59	-13.00	28.59	223	144	Vertical
5	11024.6512	50.50	-37.13	40.12	-41.77	-13.00	28.77	216	247	Vertical
6	15205.3603	54.03	-35.34	39.71	-36.86	-13.00	23.86	264	124	Vertical



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**Test on the worst case:**

**Test Band = \_LTE Band2 ANT13\_TM1**

**Test Channel = MCH**

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1316.5396	35.91	-19.50	25.70	-53.15	-13.00	40.15	Horizontal
2	3741.7871	66.97	-49.47	30.47	-47.29	-13.00	44.29	Horizontal
3	9471.3236	59.38	-41.41	39.09	-38.20	-13.00	35.20	Horizontal
4	12238.2119	59.82	-37.96	39.58	-33.82	-13.00	33.82	Horizontal
5	15002.1001	60.04	-38.78	39.90	-34.10	-13.00	34.10	Horizontal
6	17993.9997	61.74	-44.04	42.76	-34.80	-13.00	34.80	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1224.5281	36.17	-19.61	25.65	-53.05	-13.00	40.05	Vertical
2	5101.6051	62.04	-47.20	33.50	-46.92	-13.00	43.92	Vertical
3	6765.1883	59.74	-44.33	36.23	-43.62	-13.00	40.62	Vertical
4	9511.8256	59.08	-41.53	39.18	-38.53	-13.00	35.53	Vertical
5	12338.7169	61.44	-38.19	39.66	-32.35	-13.00	34.35	Vertical
6	15140.857	62.16	-39.57	39.72	-32.95	-13.00	34.95	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

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band2	20MHz	QPSK	18900	100RB#0	VN	NT	0.00	0.000000	PASS
Band2	20MHz	QPSK	18900	100RB#0	VL	NT	0.10	0.000053	PASS
Band2	20MHz	QPSK	18900	100RB#0	VH	NT	0.50	0.000266	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band2	20MHz	QPSK	18900	100RB#0	NV	-30	3.10	0.001649	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-20	-0.40	-0.000213	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-10	1.80	0.000957	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	0	-0.90	-0.000479	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	10	0.10	0.000053	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	20	0.20	0.000106	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	30	0.20	0.000106	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	40	2.70	0.001436	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	50	1.20	0.000638	PASS

---End of Attachment---



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