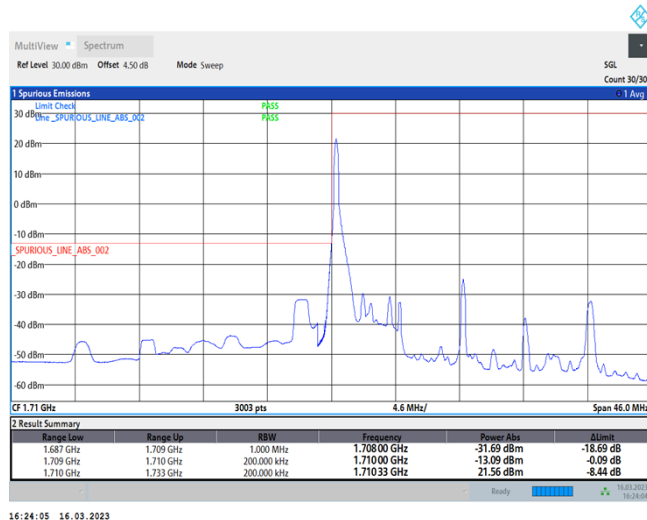


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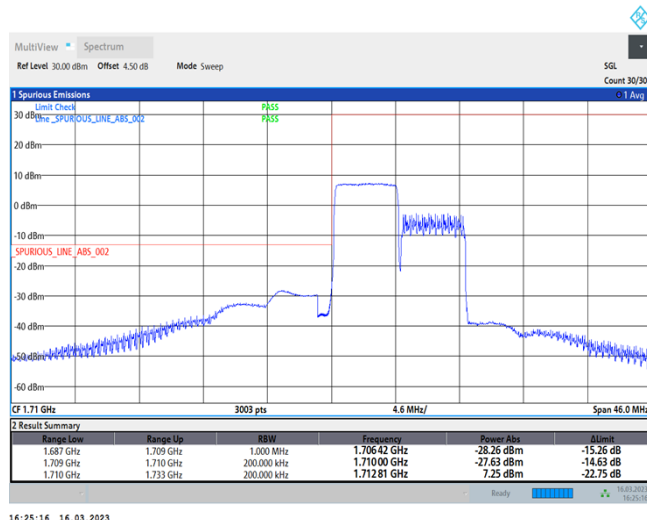
Page: 63 of 75

66-66-5MHz-5MHz-QPSK-QPSK-131997-132045-1RB#0-0RB#0



16:24:05 16.03.2023

66-66-5MHz-5MHz-QPSK-QPSK-131997-132045-25RB#0-25RB#0



16:25:16 16.03.2023



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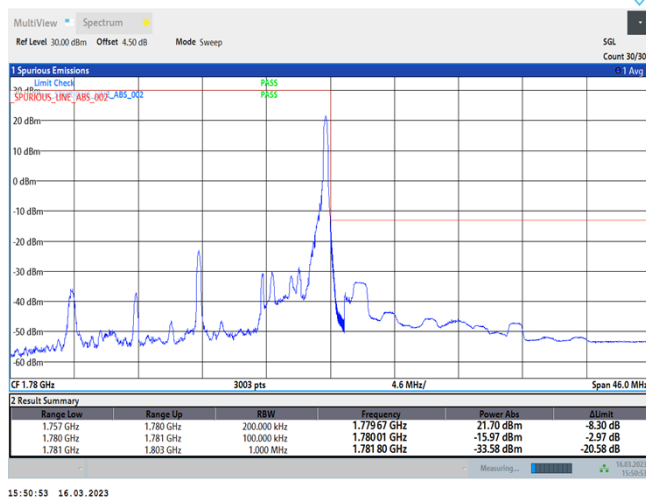
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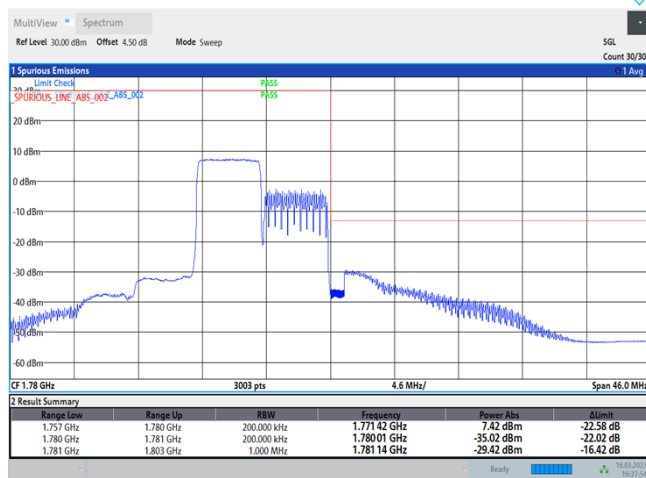
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66-66-5MHz-5MHz-QPSK-QPSK-132599-132647-0RB#0-1RB#24



15:50:53 16.03.2023

66-66-5MHz-5MHz-QPSK-QPSK-132599-132647-25RB#0-25RB#0



16:27:54 16.03.2023



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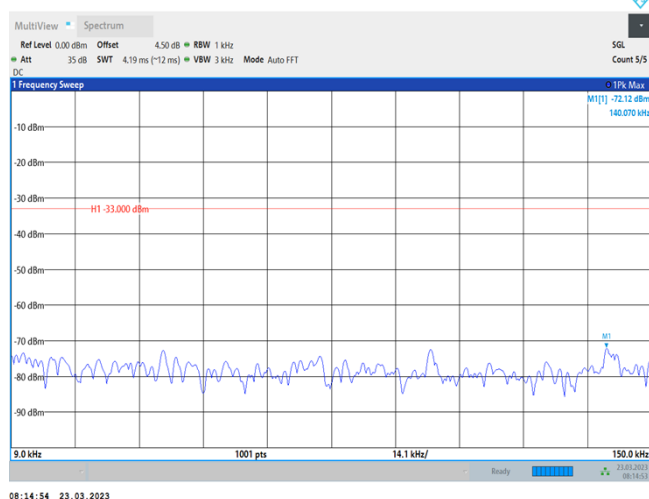
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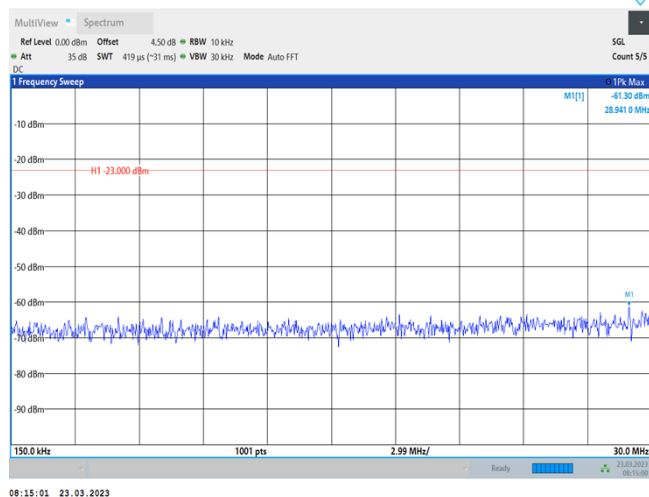
Conducted Spurious Emission

Test Graphs

66-66-10MHz-10MHz-QPSK-QPSK-132022-132121-1RB#0-0RB#0-0.009~0.15MHz



66-66-10MHz-10MHz-QPSK-QPSK-132022-132121-1RB#0-0RB#0-0.15~30MHz



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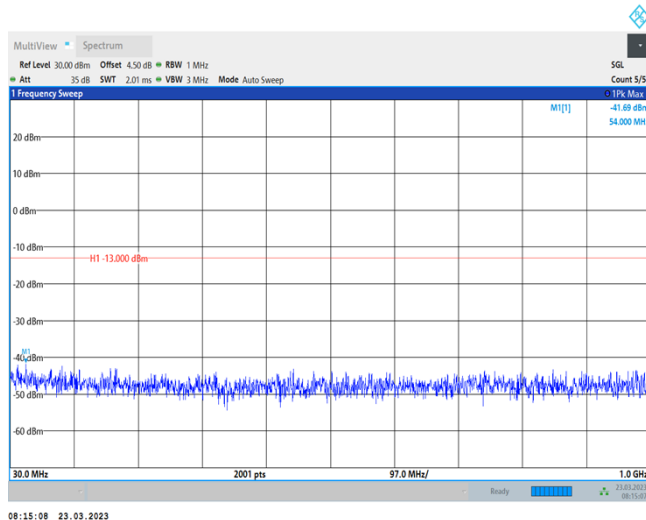
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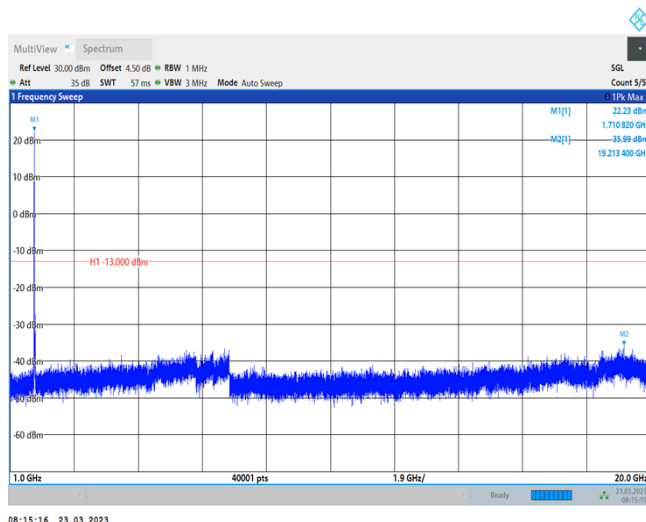
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66-66-10MHz-10MHz-QPSK-QPSK-132022-132121-1RB#0-0RB#0-30~1000MHz



66-66-10MHz-10MHz-QPSK-QPSK-132022-132121-1RB#0-0RB#0-1000~20000MHz



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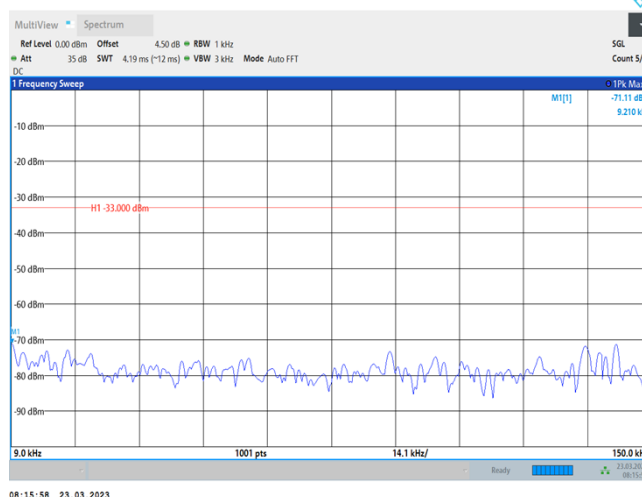
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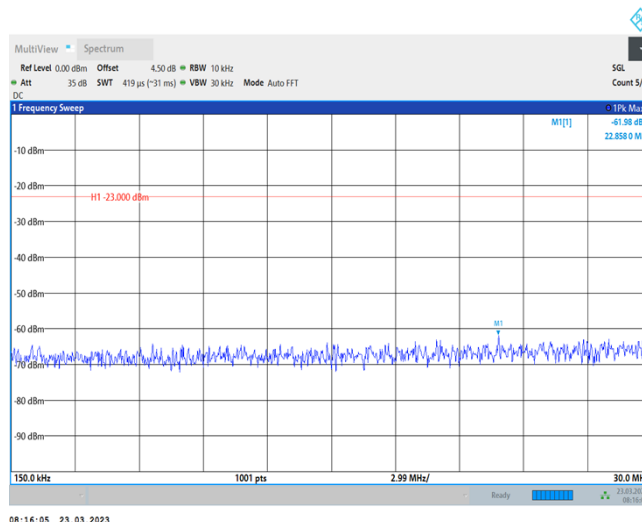
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66-66-10MHz-10MHz-QPSK-QPSK-132373-132472-1RB#0-0RB#0-0.009~0.15MHz



66-66-10MHz-10MHz-QPSK-QPSK-132373-132472-1RB#0-0RB#0-0.15~30MHz



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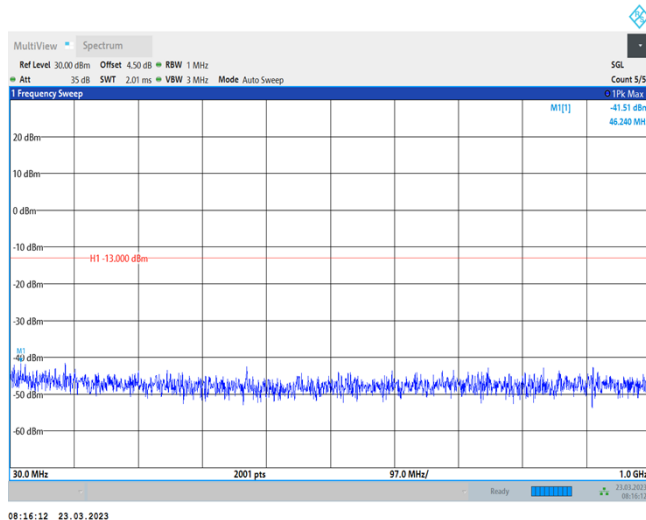
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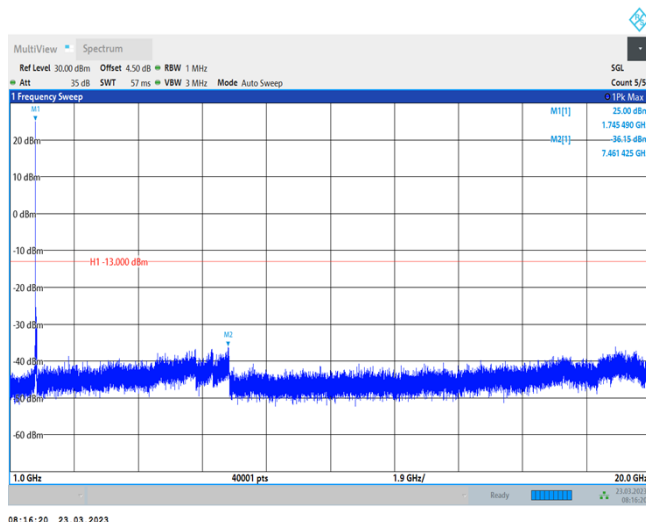
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66-66-10MHz-10MHz-QPSK-QPSK-132373-132472-1RB#0-0RB#0-30~1000MHz



66-66-10MHz-10MHz-QPSK-QPSK-132373-132472-1RB#0-0RB#0-1000~20000MHz



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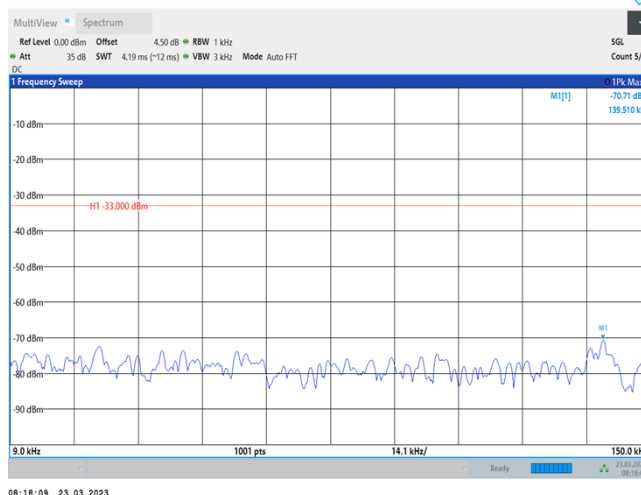
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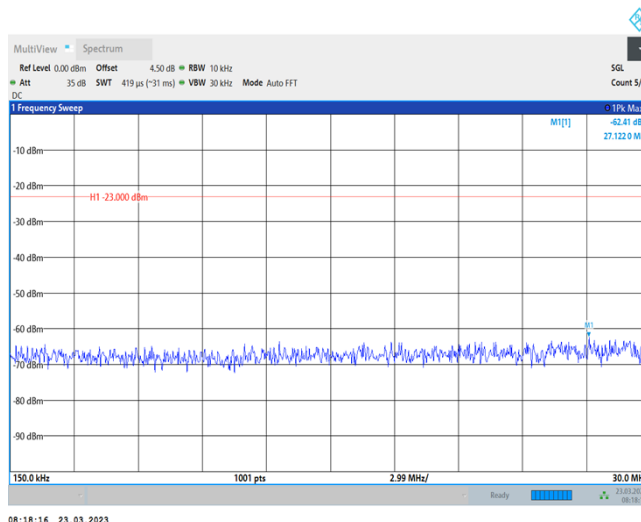
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66-66-10MHz-10MHz-QPSK-QPSK-132523-132622-1RB#0-0RB#0-0.009~0.15MHz



66-66-10MHz-10MHz-QPSK-QPSK-132523-132622-1RB#0-0RB#0-0.15~30MHz



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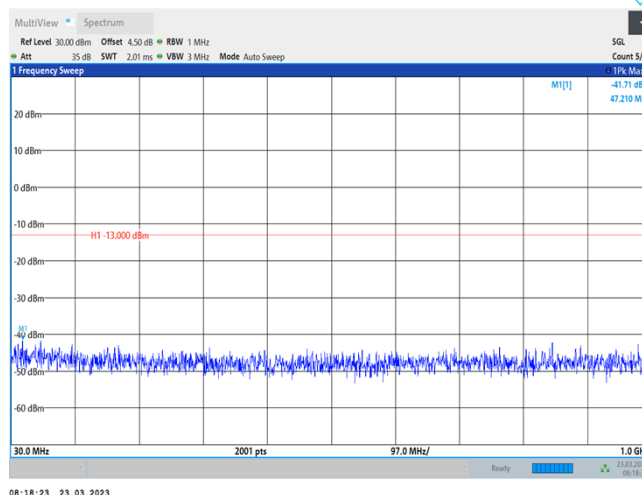
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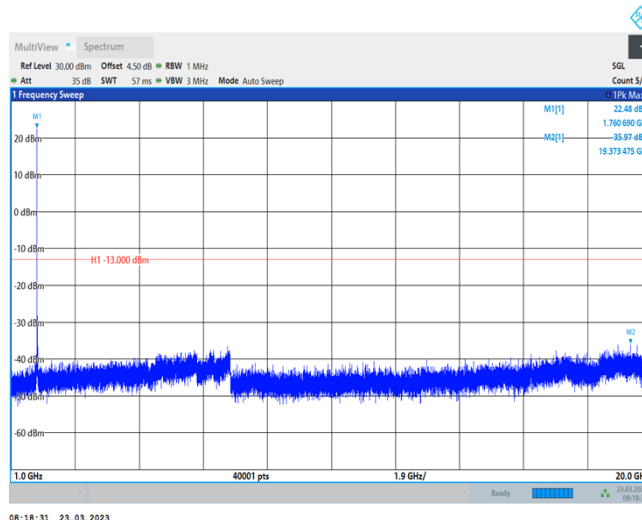
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66-66-10MHz-10MHz-QPSK-QPSK-132523-132622-1RB#0-0RB#0-30~1000MHz



66-66-10MHz-10MHz-QPSK-QPSK-132523-132622-1RB#0-0RB#0-1000~20000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band 66B_ 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	3420.75	50.04	-46.28	29.45	-62.05	-13.00	49.05	241	44	Horizontal
2	5184.75	49.68	-45.29	32.98	-57.89	-13.00	44.89	223	226	Horizontal
3	6842.25	57.75	-44.14	35.89	-45.76	-13.00	32.76	309	353	Horizontal
4	8552.9500	43.26	-41.47	37.65	-55.82	-13.00	42.82	214	358	Horizontal
5	10263.5400	34.29	-39.24	38.83	-61.38	-13.00	48.38	145	240	Horizontal
6	11974.1300	31.58	-37.49	38.94	-62.23	-13.00	49.23	163	165	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	3421.5	54.47	-46.28	29.45	-57.62	-13.00	44.62	264	151	Vertical
2	5131.7700	44.60	-45.34	32.95	-63.05	-13.00	50.05	199	331	Vertical
3	6842.25	63.42	-44.14	35.89	-40.09	-13.00	27.09	268	120	Vertical
4	8552.9500	47.33	-41.47	37.65	-51.75	-13.00	38.75	142	91	Vertical
5	10263.5400	34.29	-39.24	38.83	-61.38	-13.00	48.38	155	257	Vertical
6	11974.1300	32.11	-37.49	38.94	-61.70	-13.00	48.70	262	91	Vertical



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Test Band = LTE Band 66B_ 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	3491.25	52.98	-46.26	29.51	-59.03	-13.00	46.03	309	44	Horizontal
2	5237.0700	46.58	-45.21	32.95	-60.93	-13.00	47.93	315	61	Horizontal
3	6982.5	58.64	-43.65	36.06	-44.21	-13.00	31.21	200	196	Horizontal
4	8728.4500	39.79	-41.56	37.96	-59.07	-13.00	46.07	158	358	Horizontal
5	10474.1400	34.68	-38.85	38.93	-60.50	-13.00	47.50	219	44	Horizontal
6	12219.8300	32.97	-37.47	39.12	-60.64	-13.00	47.64	281	360	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	3491.25	56.60	-46.26	29.51	-55.41	-13.00	42.41	247	73	Vertical
2	5237.0700	48.99	-45.21	32.95	-58.52	-13.00	45.52	163	118	Vertical
3	6982.5	63.12	-43.65	36.06	-39.73	-13.00	26.73	241	270	Vertical
4	8728.4500	43.78	-41.56	37.96	-55.08	-13.00	42.08	203	104	Vertical
5	10474.1400	35.45	-38.85	38.93	-59.73	-13.00	46.73	136	343	Vertical
6	12219.8300	34.14	-37.47	39.12	-59.47	-13.00	46.47	174	118	Vertical



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Test Band = LTE Band 66B_ 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	3521.25	50.07	-46.23	29.54	-61.88	-13.00	48.88	275	120	Horizontal
2	5282.0700	44.00	-45.12	32.91	-63.47	-13.00	50.47	164	60	Horizontal
3	7042.5	58.02	-43.83	36.19	-44.88	-13.00	31.88	184	353	Horizontal
4	8803.4500	39.14	-41.25	38.08	-59.29	-13.00	46.29	162	178	Horizontal
5	10564.1400	34.59	-38.59	39.02	-60.23	-13.00	47.23	308	353	Horizontal
6	12324.8300	32.32	-37.45	39.09	-61.30	-13.00	48.30	157	344	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	3521.25	51.59	-46.23	29.54	-60.36	-13.00	47.36	244	91	Vertical
2	5282.0700	46.86	-45.12	32.91	-60.61	-13.00	47.61	167	105	Vertical
3	7042.5	63.00	-43.83	36.19	-39.90	-13.00	26.90	295	271	Vertical
4	8803.4500	39.05	-41.25	38.08	-59.38	-13.00	46.38	163	105	Vertical
5	10564.1400	34.43	-38.59	39.02	-60.39	-13.00	47.39	224	227	Vertical
6	12324.8300	32.74	-37.45	39.09	-60.88	-13.00	47.88	175	60	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
66-66	10MHz-10MHz	QPSK -QPSK	132373-132472	50RB#0-50RB#0	VH	NT	19.50	0.01114 2	PASS
66-66	10MHz-10MHz	QPSK -QPSK	132373-132472	50RB#0-50RB#0	VL	NT	20.40	0.01165 6	PASS
66-66	10MHz-10MHz	QPSK -QPSK	132373-132472	50RB#0-50RB#0	VN	NT	20.90	0.01194 2	PASS



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Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
66-66	10MHz-10MHz	QPSK -QPSK	132373-132472	50RB#0-50RB#0	NV	50	15.70	0.008971	PASS
66-66	10MHz-10MHz	QPSK -QPSK	132373-132472	50RB#0-50RB#0	NV	40	16.40	0.009371	PASS
66-66	10MHz-10MHz	QPSK -QPSK	132373-132472	50RB#0-50RB#0	NV	30	17.70	0.010114	PASS
66-66	10MHz-10MHz	QPSK -QPSK	132373-132472	50RB#0-50RB#0	NV	20	17.70	0.010114	PASS
66-66	10MHz-10MHz	QPSK -QPSK	132373-132472	50RB#0-50RB#0	NV	10	18.40	0.010514	PASS
66-66	10MHz-10MHz	QPSK -QPSK	132373-132472	50RB#0-50RB#0	NV	0	18.80	0.010742	PASS
66-66	10MHz-10MHz	QPSK -QPSK	132373-132472	50RB#0-50RB#0	NV	-10	20.90	0.011942	PASS
66-66	10MHz-10MHz	QPSK -QPSK	132373-132472	50RB#0-50RB#0	NV	-20	19.30	0.011028	PASS
66-66	10MHz-10MHz	QPSK -QPSK	132373-132472	50RB#0-50RB#0	NV	-30	19.10	0.010914	PASS

---End of Attachment---



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Wireless Laboratory

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