

Report No.: SEWM2307000261RG01

Rev.: 01

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Appendix B.16

LTE CA_38C



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Effective (Isotropic) Radiated Power Output Data

Test Result

Ant3:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	1RB#99-1RB#0	23.50	22.30	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	1RB#99-1RB#0	23.78	22.58	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	38150-37952	1RB#99-1RB#0	23.68	22.48	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	1RB#99-1RB#0	22.23	21.03	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	1RB#99-1RB#0	22.51	21.31	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	38150-37952	1RB#99-1RB#0	22.46	21.26	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	1RB#99-1RB#0	21.53	20.33	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	1RB#99-1RB#0	21.43	20.23	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	38150-37952	1RB#99-1RB#0	21.65	20.45	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37850-38048	1RB#99-1RB#0	20.32	19.12	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37901-38099	1RB#99-1RB#0	20.53	19.33	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	38150-37952	1RB#99-1RB#0	20.24	19.04	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	1RB#74-1RB#0	23.26	22.06	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	1RB#74-1RB#0	22.13	20.93	33	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	8.34	13	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	8.30	13	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	8.28	13	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	100RB#0-100RB#0	8.84	13	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	8.82	13	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	100RB#0-100RB#0	8.90	13	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	100RB#0-100RB#0	9.00	13	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	9.08	13	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	100RB#0-100RB#0	9.10	13	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37850-38048	100RB#0-100RB#0	9.16	13	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37901-38099	100RB#0-100RB#0	9.22	13	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37952-38150	100RB#0-100RB#0	9.10	13	PASS

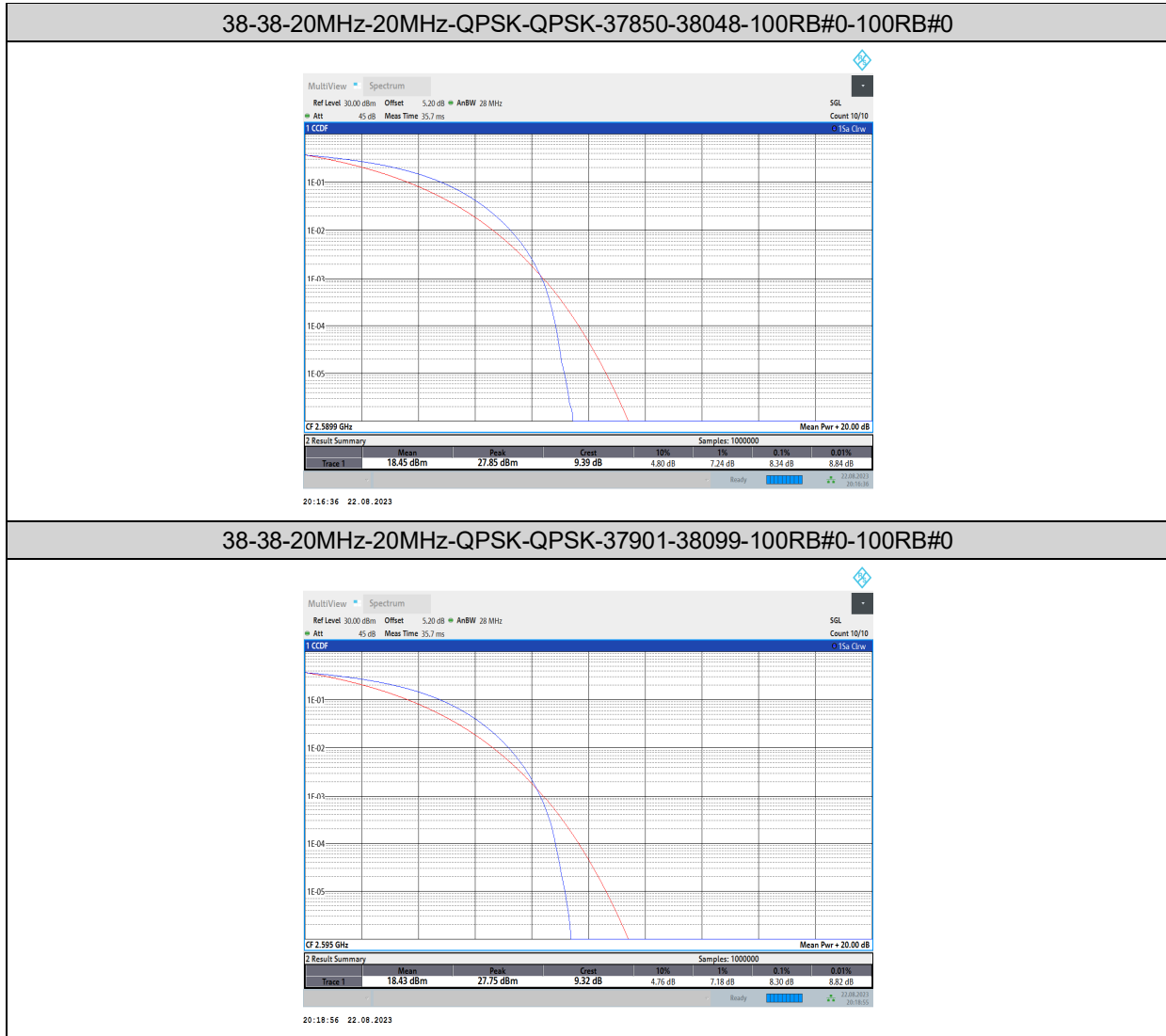


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TTest Graphs

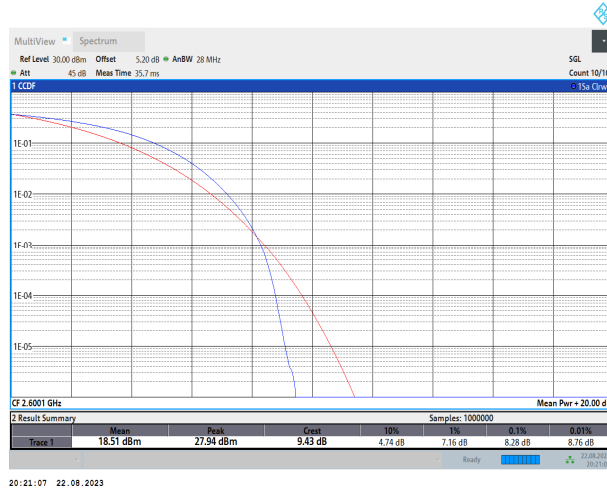


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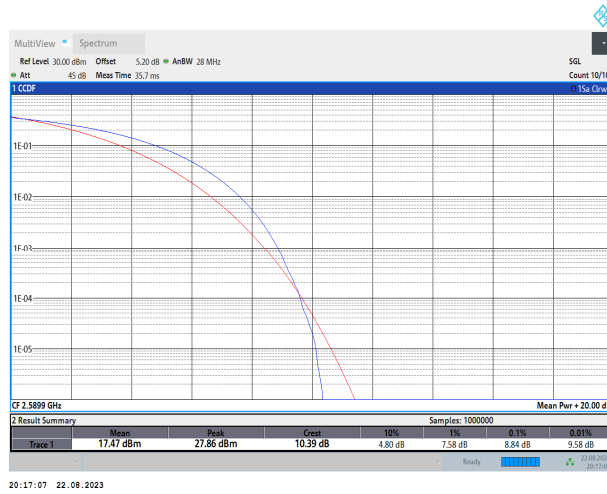
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38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-100RB#0-100RB#0



38-38-20MHz-20MHz-16QAM-16QAM-37850-38048-100RB#0-100RB#0

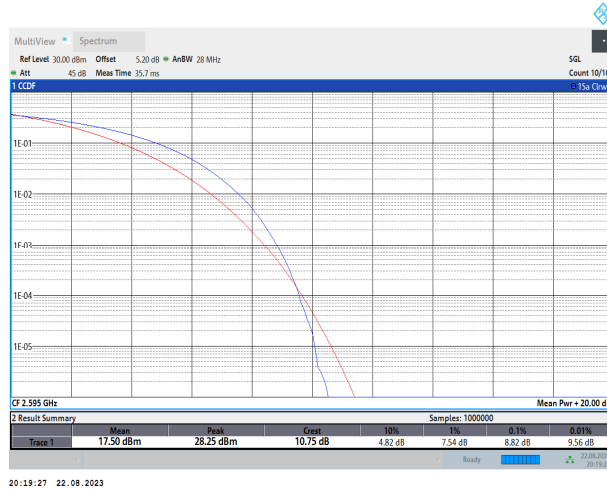


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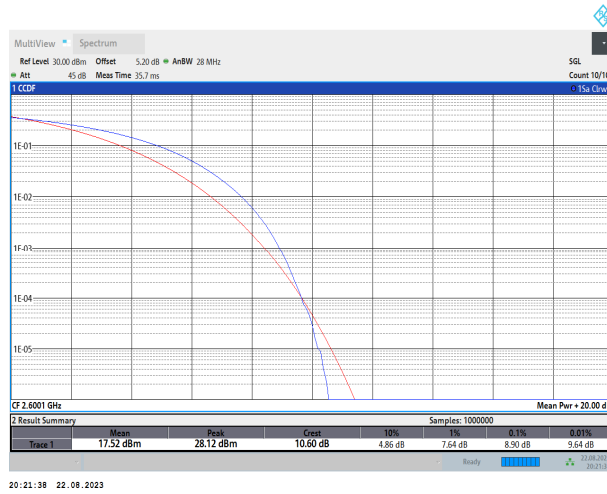
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38-38-20MHz-20MHz-16QAM-16QAM-37952-38150-100RB#0-100RB#0

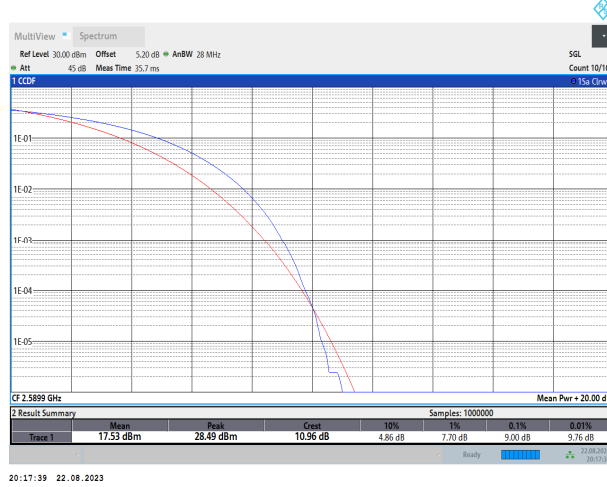


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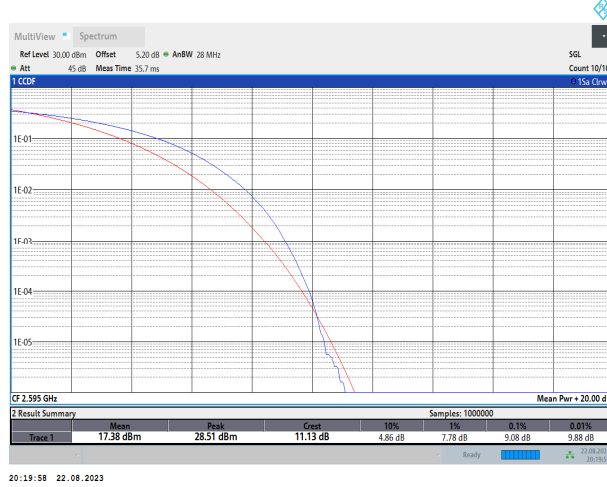
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38-38-20MHz-20MHz-64QAM-64QAM-37901-38099-100RB#0-100RB#0

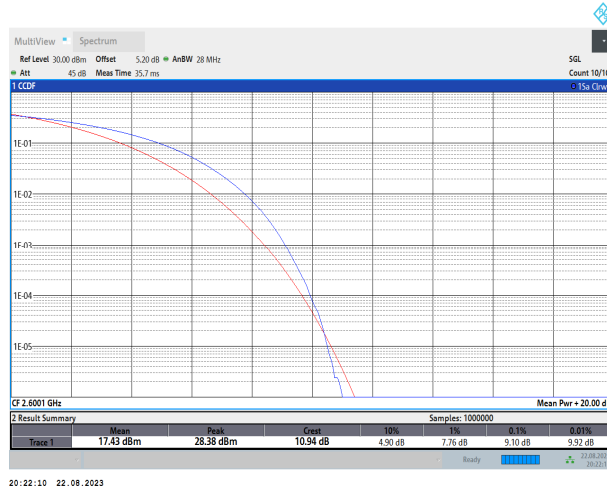


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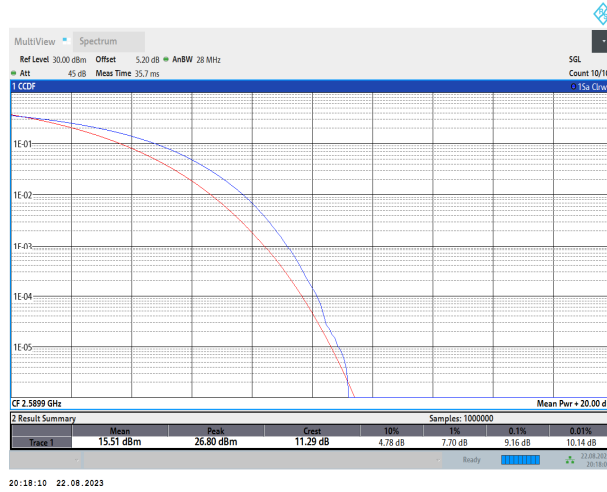
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38-38-20MHz-20MHz-256QAM-256QAM-37850-38048-100RB#0-100RB#0



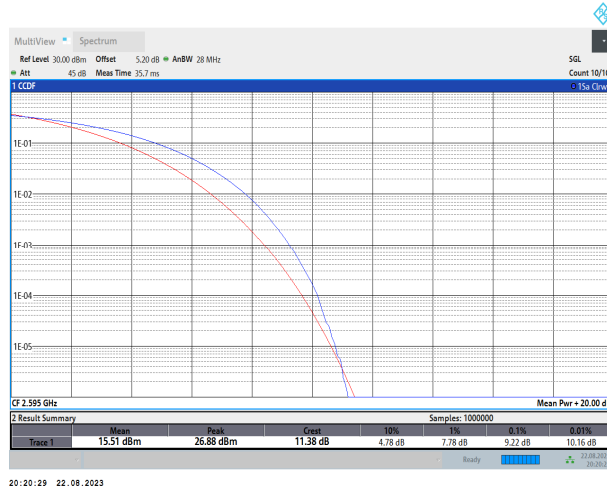
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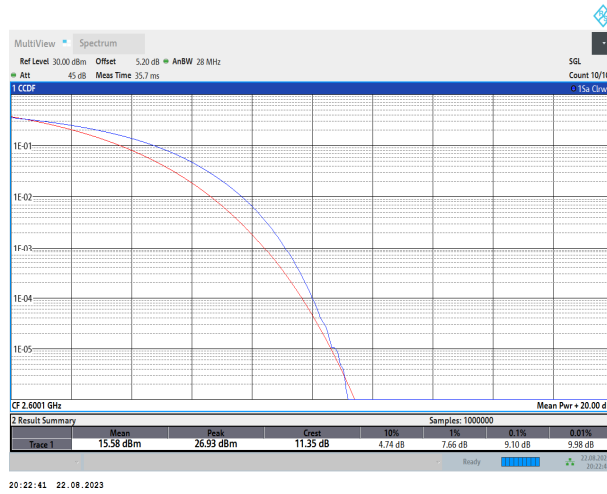
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38-38-20MHz-20MHz-256QAM-256QAM-37952-38150-100RB#0-100RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	75RB#0-75RB#0	28.290	30.24	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	75RB#0-75RB#0	28.293	30.42	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	75RB#0-75RB#0	28.321	30.12	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37925-38075	75RB#0-75RB#0	28.314	30.24	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	37.728	40.56	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	37.715	40.48	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	37.755	40.48	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37901-38099	100RB#0-100RB#0	37.728	40.48	PASS



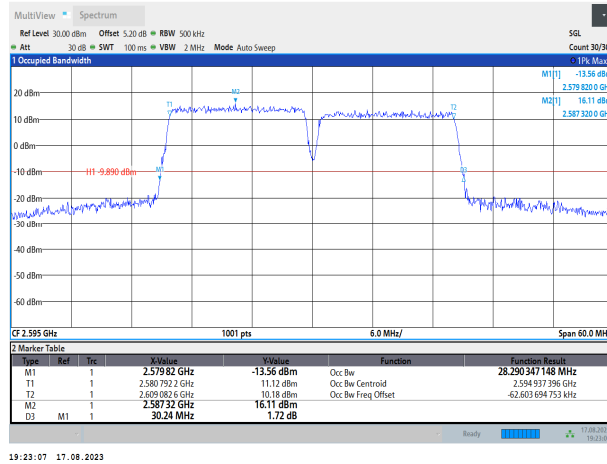
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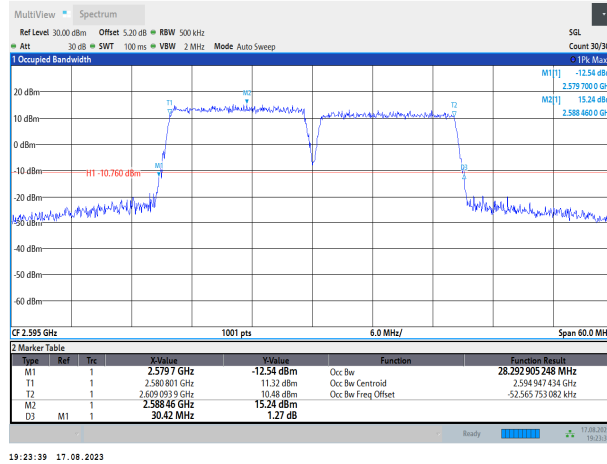
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Test Graphs

38-38-15MHz-15MHz-QPSK-QPSK-37925-38075-75RB#0-75RB#0



38-38-15MHz-15MHz-16QAM-16QAM-37925-38075-75RB#0-75RB#0

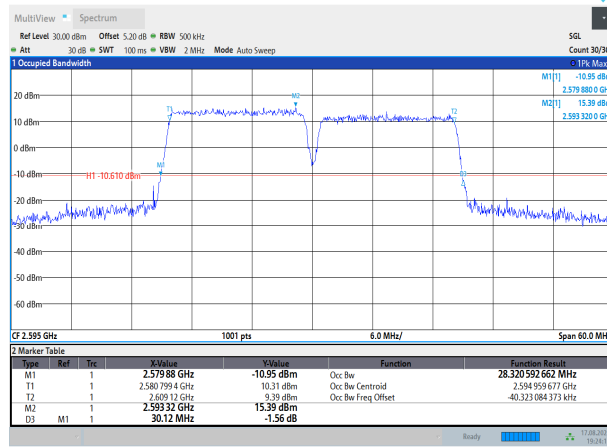


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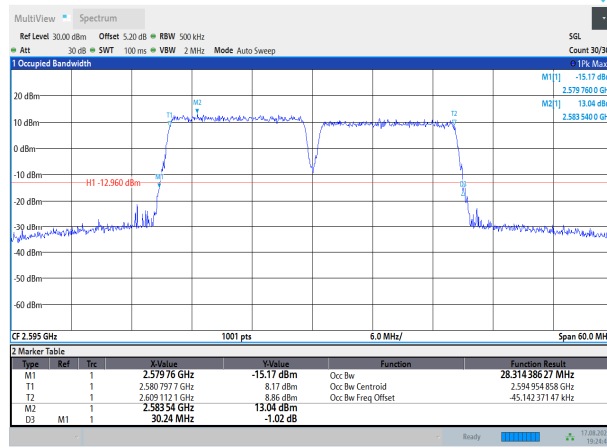
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38-38-15MHz-15MHz-64QAM-64QAM-37925-38075-75RB#0-75RB#0



19:24:11 17.08.2023

38-38-15MHz-15MHz-256QAM-256QAM-37925-38075-75RB#0-75RB#0



19:24:43 17.08.2023

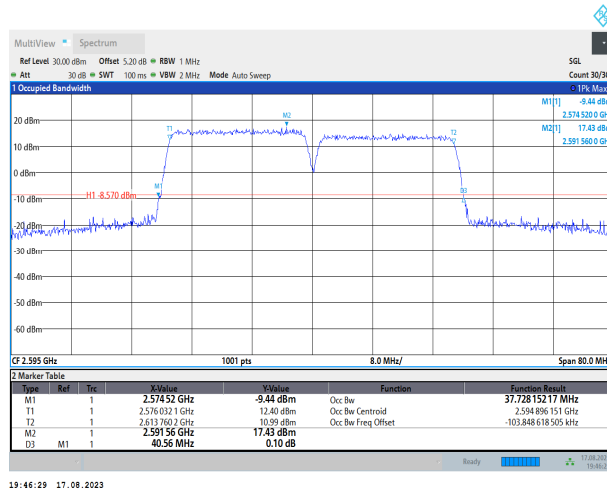


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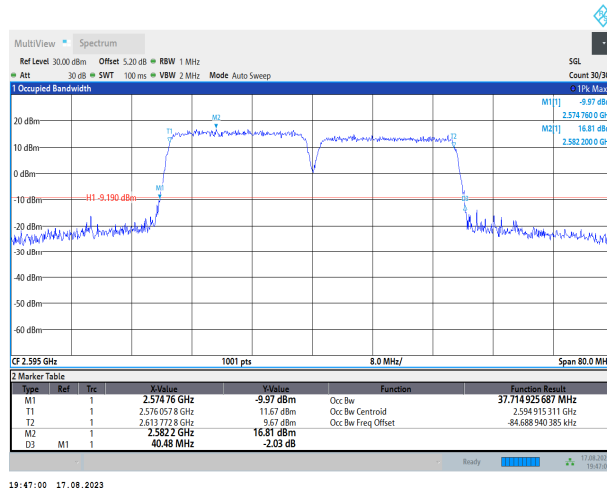
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38-38-20MHz-20MHz-QPSK-QPSK-37901-38099-100RB#0-100RB#0



38-38-20MHz-20MHz-16QAM-16QAM-37901-38099-100RB#0-100RB#0

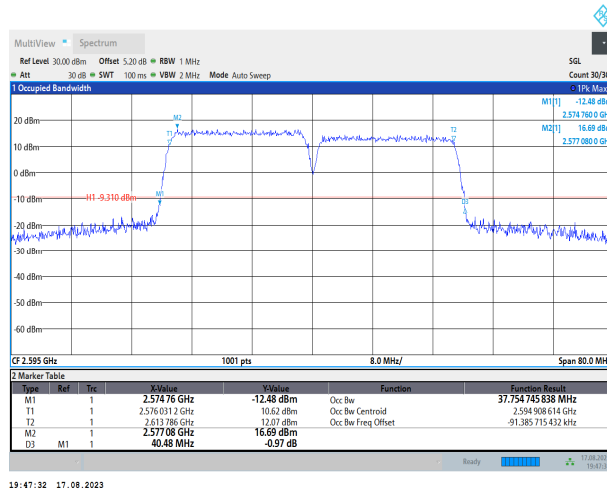


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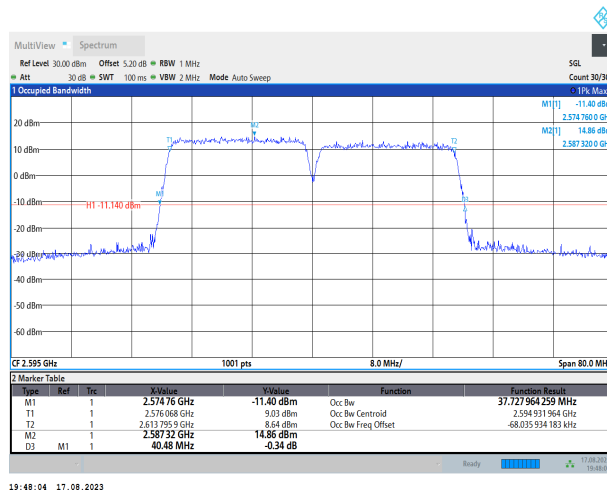
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38-38-20MHz-20MHz-64QAM-64QAM-37901-38099-100RB#0-100RB#0



38-38-20MHz-20MHz-256QAM-256QAM-37901-38099-100RB#0-100RB#0



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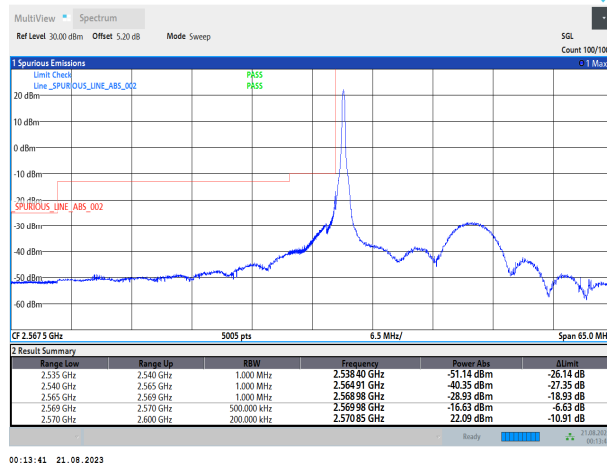
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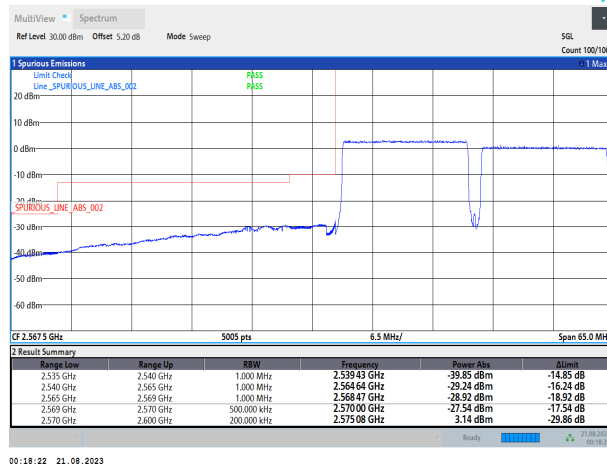
Band Edge

Test Graphs

38-38-15MHz-15MHz-QPSK-QPSK-37825-37975-1RB#0-0RB#0



38-38-15MHz-15MHz-QPSK-QPSK-37825-37975-75RB#0-75RB#0

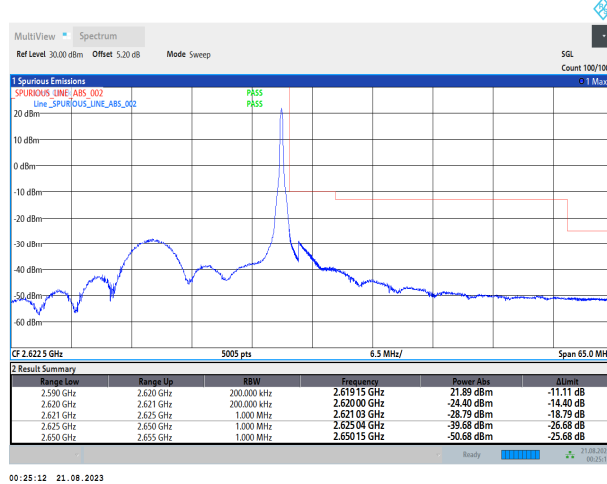


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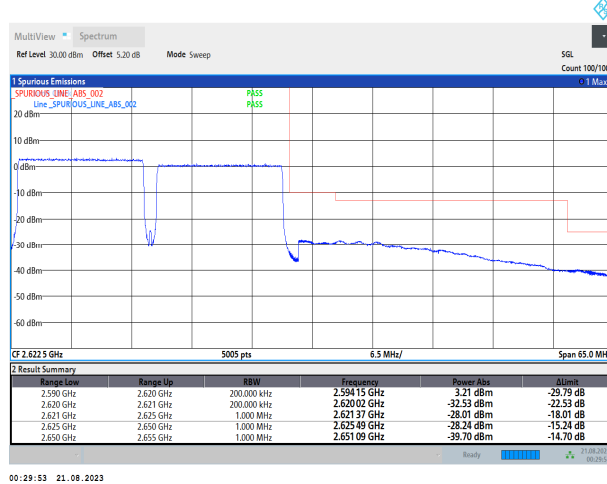
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38-38-15MHz-15MHz-QPSK-QPSK-38025-38175-0RB#0-1RB#74



38-38-15MHz-15MHz-QPSK-QPSK-38025-38175-75RB#0-75RB#0



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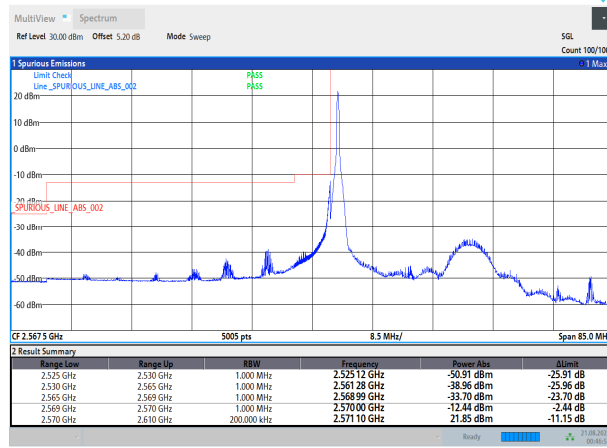
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38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-100RB#0-100RB#0



00:51:37 21.08.2023

38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#0-0RB#0



00:46:55 21.08.2023

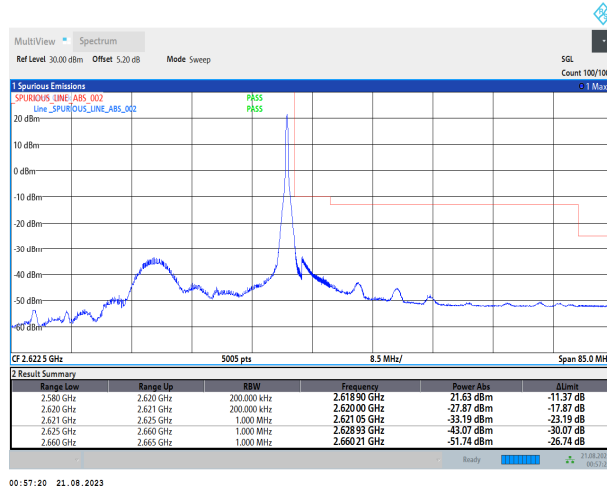


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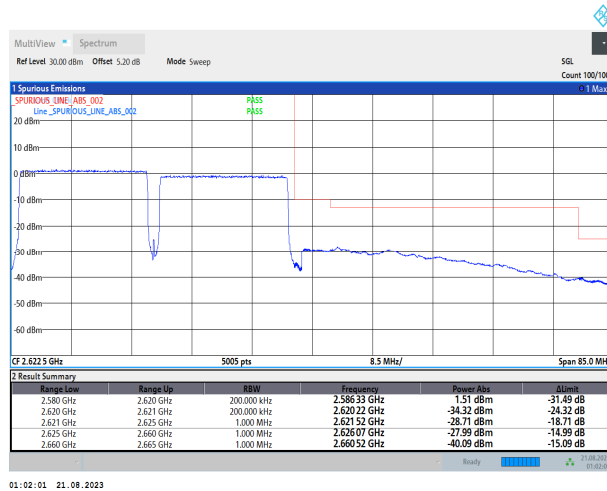
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38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-0RB#0-1RB#99



38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-100RB#0-100RB#0



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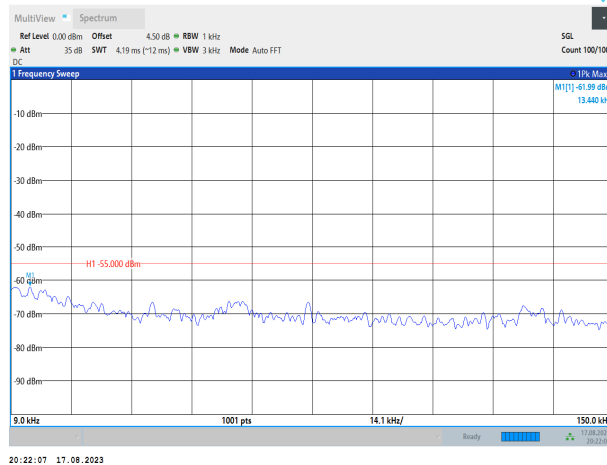
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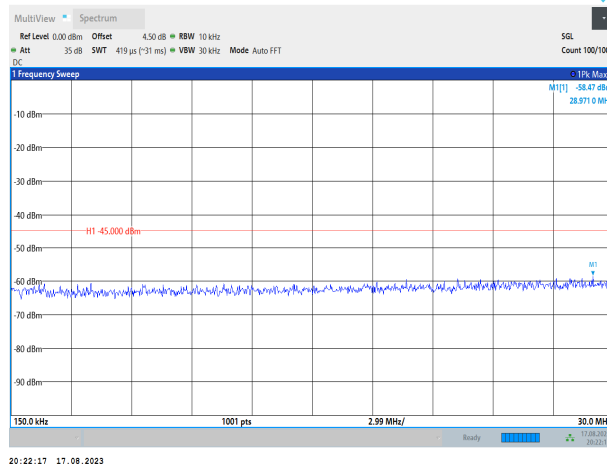
Conducted Spurious Emission

Test Graphs

38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-1RB#0-0RB#0-0.009~0.15MHz



38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-1RB#0-0RB#0-0.15~30MHz

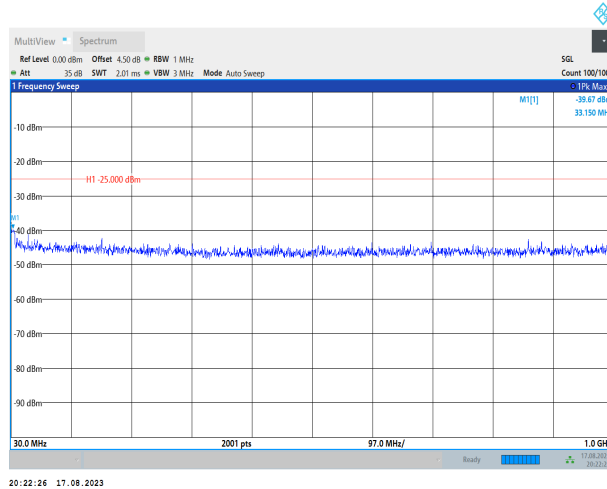


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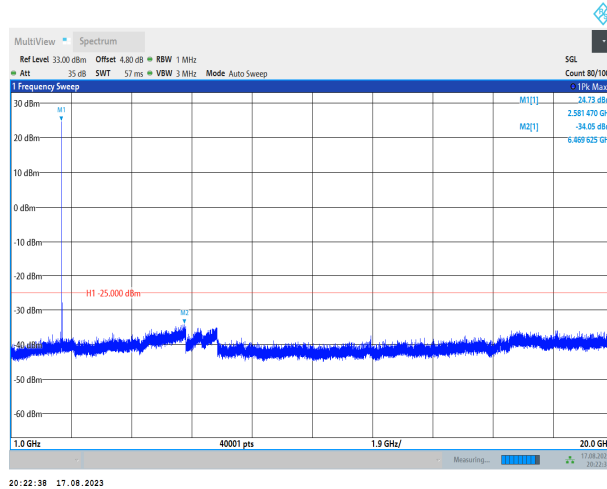
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38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-1RB#0-0RB#0-30~1000MHz



38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-1RB#0-0RB#0-1000~20000MHz

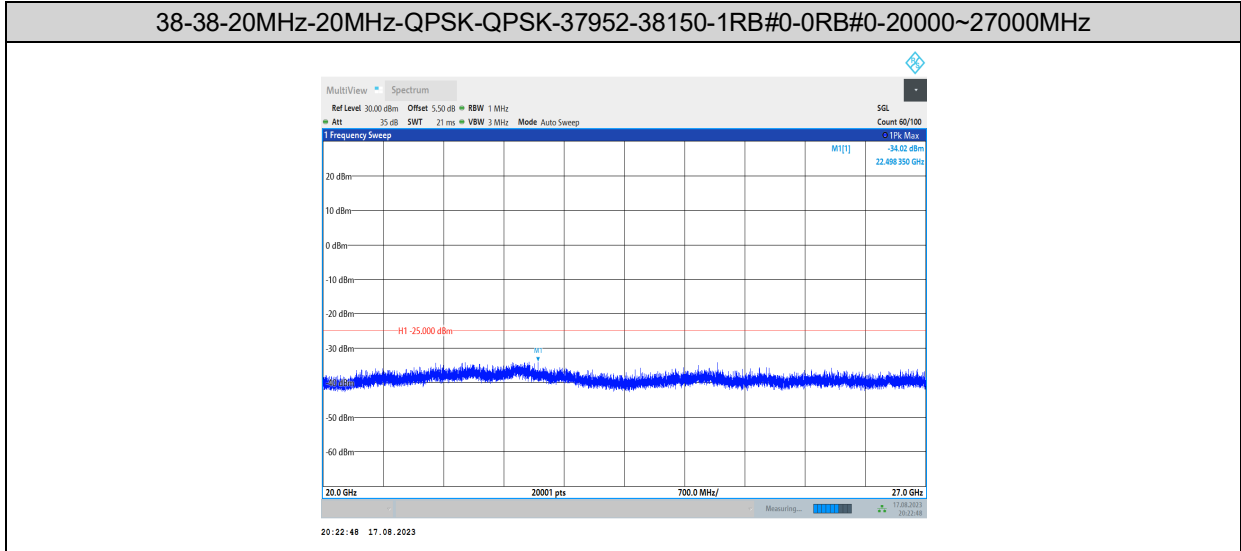


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38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-1RB#0-0RB#0-20000~27000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band38_CA_TM1

Test Channel = Low ANT2

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5142.1800	42.41	-45.33	31.74	-66.44	-25.00	41.44	244	222	Horizontal
2	7713.2700	40.23	-43.01	36.69	-61.36	-25.00	36.36	125	357	Horizontal
3	10284.3600	35.50	-39.15	38.34	-60.57	-25.00	35.57	156	263	Horizontal
4	12855.4500	33.50	-36.99	39.06	-59.69	-25.00	34.69	129	33	Horizontal
5	15426.5400	32.39	-34.00	40.40	-56.46	-25.00	31.46	133	303	Horizontal
6	17997.6300	32.15	-34.58	46.79	-50.90	-25.00	25.90	203	0	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	5142.1800	41.56	-45.33	31.74	-67.29	-25.00	42.29	254	70	Vertical
2	7713.2700	40.15	-43.01	36.69	-61.44	-25.00	36.44	156	261	Vertical
3	10284.3600	35.83	-39.15	38.34	-60.24	-25.00	35.24	129	342	Vertical
4	12855.4500	35.24	-36.99	39.06	-57.95	-25.00	32.95	184	352	Vertical
5	15426.5400	32.86	-34.00	40.40	-55.99	-25.00	30.99	175	16	Vertical
6	17997.6300	32.04	-34.58	46.79	-51.01	-25.00	26.01	166	193	Vertical



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Test Band = LTE Band38_CA_TM1

Test Channel = Mid ANT2

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4018	44.10	-45.99	29.14	-68.01	-25.00	43.01	247	173	Horizontal
2	5152.3800	41.78	-45.32	31.77	-67.04	-25.00	42.04	184	214	Horizontal
3	7728.5700	39.22	-42.89	36.69	-62.23	-25.00	37.23	185	227	Horizontal
4	10304.7600	35.77	-39.09	38.35	-60.22	-25.00	35.22	122	187	Horizontal
5	12880.9500	34.39	-37.06	39.06	-58.86	-25.00	33.86	166	268	Horizontal
6	15457.1400	32.88	-34.57	40.34	-56.61	-25.00	31.61	198	268	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	4287.5	43.18	-45.57	29.79	-67.86	-25.00	42.86	241	300	Vertical
2	5152.3800	40.60	-45.32	31.77	-68.22	-25.00	43.22	125	286	Vertical
3	7728.5700	40.81	-42.89	36.69	-60.64	-25.00	35.64	136	124	Vertical
4	10304.7600	34.74	-39.09	38.35	-61.25	-25.00	36.25	259	42	Vertical
5	12880.9500	34.50	-37.06	39.06	-58.75	-25.00	33.75	188	151	Vertical
6	15457.1400	32.79	-34.57	40.34	-56.70	-25.00	31.70	172	360	Vertical



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Test Band = LTE Band38_CA_TM1

Test Channel = High ANT2

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4104.5	43.89	-45.76	29.35	-67.78	-25.00	42.78	211	86	Horizontal
2	5162.5800	41.68	-45.31	31.79	-67.10	-25.00	42.10	158	346	Horizontal
3	7743.8700	40.60	-42.76	36.70	-60.73	-25.00	35.73	148	250	Horizontal
4	10325.1600	35.47	-39.07	38.36	-60.50	-25.00	35.50	177	168	Horizontal
5	12906.4500	34.31	-37.12	39.07	-59.00	-25.00	34.00	199	86	Horizontal
6	15487.7400	31.63	-35.14	40.28	-58.50	-25.00	33.50	210	263	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	3769	43.82	-45.79	28.87	-68.36	-25.00	43.36	211	342	Vertical
2	5162.5800	41.11	-45.31	31.79	-67.67	-25.00	42.67	145	352	Vertical
3	7743.8700	39.92	-42.76	36.70	-61.41	-25.00	36.41	133	330	Vertical
4	10325.1600	35.42	-39.07	38.36	-60.55	-25.00	35.55	261	289	Vertical
5	12906.4500	33.49	-37.12	39.07	-59.82	-25.00	34.82	188	85	Vertical
6	15487.7400	31.65	-35.14	40.28	-58.48	-25.00	33.48	199	125	Vertical



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Test Band = LTE Band38_CA_TM1

Test Channel = Low ANT3

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5142.1800	41.16	-45.33	31.74	-67.69	-25.00	42.69	244	155	Horizontal
2	7713.2700	40.35	-43.01	36.69	-61.24	-25.00	36.24	188	32	Horizontal
3	10284.3600	35.36	-39.15	38.34	-60.71	-25.00	35.71	176	330	Horizontal
4	12855.4500	35.17	-36.99	39.06	-58.02	-25.00	33.02	126	0	Horizontal
5	15426.5400	33.01	-34.00	40.40	-55.84	-25.00	30.84	155	113	Horizontal
6	17997.6300	31.86	-34.58	46.79	-51.19	-25.00	26.19	199	182	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	5142.1800	41.45	-45.33	31.74	-67.40	-25.00	42.40	211	358	Vertical
2	7713.2700	40.49	-43.01	36.69	-61.10	-25.00	36.10	159	16	Vertical
3	10284.3600	35.50	-39.15	38.34	-60.57	-25.00	35.57	184	4	Vertical
4	12855.4500	34.74	-36.99	39.06	-58.45	-25.00	33.45	175	4	Vertical
5	15426.5400	33.51	-34.00	40.40	-55.34	-25.00	30.34	163	233	Vertical
6	17997.6300	32.34	-34.58	46.79	-50.71	-25.00	25.71	251	57	Vertical



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Test Band = LTE Band38_CA_TM1
Test Channel = Mid ANT3

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3842.5	44.38	-46.07	28.94	-68.01	-25.00	43.01	244	331	Horizontal
2	5152.3800	40.71	-45.32	31.77	-68.11	-25.00	43.11	178	99	Horizontal
3	7728.5700	39.33	-42.89	36.69	-62.12	-25.00	37.12	186	236	Horizontal
4	10304.7600	35.04	-39.09	38.35	-60.95	-25.00	35.95	236	59	Horizontal
5	12880.9500	34.40	-37.06	39.06	-58.85	-25.00	33.85	251	31	Horizontal
6	15457.1400	32.86	-34.57	40.34	-56.63	-25.00	31.63	199	209	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	3934.5	44.23	-46.20	29.03	-68.19	-25.00	43.19	188	152	Vertical
2	5152.3800	42.02	-45.32	31.77	-66.80	-25.00	41.80	166	351	Vertical
3	7728.5700	39.21	-42.89	36.69	-62.24	-25.00	37.24	247	360	Vertical
4	10304.7600	35.77	-39.09	38.35	-60.22	-25.00	35.22	188	360	Vertical
5	12880.9500	33.38	-37.06	39.06	-59.87	-25.00	34.87	192	4	Vertical
6	15457.1400	32.77	-34.57	40.34	-56.72	-25.00	31.72	140	58	Vertical



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Test Band = LTE Band38_CA_TM1

Test Channel = High ANT3

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3777.5	44.15	-45.83	28.88	-68.06	-25.00	43.06	163	84	Horizontal
2	5162.5800	41.51	-45.31	31.79	-67.27	-25.00	42.27	215	208	Horizontal
3	7743.8700	40.87	-42.76	36.70	-60.46	-25.00	35.46	145	356	Horizontal
4	10325.1600	35.68	-39.07	38.36	-60.29	-25.00	35.29	188	17	Horizontal
5	12906.4500	33.96	-37.12	39.07	-59.35	-25.00	34.35	174	139	Horizontal
6	15487.7400	31.62	-35.14	40.28	-58.51	-25.00	33.51	169	248	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	3950	44.12	-46.16	29.05	-68.25	-25.00	43.25	166	300	Vertical
2	5162.5800	42.25	-45.31	31.79	-66.53	-25.00	41.53	254	124	Vertical
3	7743.8700	41.18	-42.76	36.70	-60.15	-25.00	35.15	148	110	Vertical
4	10325.1600	35.17	-39.07	38.36	-60.80	-25.00	35.80	175	124	Vertical
5	12906.4500	33.85	-37.12	39.07	-59.46	-25.00	34.46	199	219	Vertical
6	15487.7400	32.68	-35.14	40.28	-57.45	-25.00	32.45	126	341	Vertical



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Test Band = LTE Band38_CA_TM1

Test Channel = Low ANT4

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5142.1800	41.53	-45.33	31.74	-67.32	-25.00	42.32	244	344	Horizontal
2	7713.2700	40.57	-43.01	36.69	-61.02	-25.00	36.02	175	0	Horizontal
3	10284.3600	35.75	-39.15	38.34	-60.32	-25.00	35.32	122	18	Horizontal
4	12855.4500	34.15	-36.99	39.06	-59.04	-25.00	34.04	159	330	Horizontal
5	15426.5400	32.75	-34.00	40.40	-56.10	-25.00	31.10	184	194	Horizontal
6	17997.6300	31.93	-34.58	46.79	-51.12	-25.00	26.12	122	114	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	5142.1800	41.61	-45.33	31.74	-67.24	-25.00	42.24	120	138	Vertical
2	7713.2700	40.72	-43.01	36.69	-60.87	-25.00	35.87	198	84	Vertical
3	10284.3600	35.52	-39.15	38.34	-60.55	-25.00	35.55	127	360	Vertical
4	12855.4500	33.94	-36.99	39.06	-59.25	-25.00	34.25	190	341	Vertical
5	15426.5400	32.73	-34.00	40.40	-56.12	-25.00	31.12	112	151	Vertical
6	17997.6300	31.47	-34.58	46.79	-51.58	-25.00	26.58	145	246	Vertical



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Test Band = LTE Band38_CA_TM1

Test Channel = Mid ANT4

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4097.5	43.59	-45.77	29.33	-68.10	-25.00	43.10	211	99	Horizontal
2	5152.3800	42.19	-45.32	31.77	-66.63	-25.00	41.63	156	58	Horizontal
3	7728.5700	39.20	-42.89	36.69	-62.25	-25.00	37.25	136	0	Horizontal
4	10304.7600	35.37	-39.09	38.35	-60.62	-25.00	35.62	251	208	Horizontal
5	12880.9500	33.94	-37.06	39.06	-59.31	-25.00	34.31	145	58	Horizontal
6	15457.1400	32.94	-34.57	40.34	-56.55	-25.00	31.55	178	0	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	3977.5	44.03	-46.09	29.08	-68.25	-25.00	43.25	255	248	Vertical
2	5152.3800	41.57	-45.32	31.77	-67.25	-25.00	42.25	148	248	Vertical
3	7728.5700	39.36	-42.89	36.69	-62.09	-25.00	37.09	175	193	Vertical
4	10304.7600	35.04	-39.09	38.35	-60.95	-25.00	35.95	163	4	Vertical
5	12880.9500	33.85	-37.06	39.06	-59.40	-25.00	34.40	261	262	Vertical
6	15457.1400	33.11	-34.57	40.34	-56.38	-25.00	31.38	199	328	Vertical



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Test Band = LTE Band38_CA_TM1

Test Channel = High ANT4

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3955.5	44.12	-46.15	29.06	-68.23	-25.00	43.23	255	18	Horizontal
2	5162.5800	40.88	-45.31	31.79	-67.90	-25.00	42.90	148	112	Horizontal
3	7743.8700	40.10	-42.76	36.70	-61.23	-25.00	36.23	175	329	Horizontal
4	10325.1600	35.50	-39.07	38.36	-60.47	-25.00	35.47	163	356	Horizontal
5	12906.4500	35.03	-37.12	39.07	-58.28	-25.00	33.28	261	234	Horizontal
6	15487.7400	31.98	-35.14	40.28	-58.15	-25.00	33.15	166	126	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	3970	44.14	-46.11	29.07	-68.16	-25.00	43.16	255	3	Vertical
2	5162.5800	41.09	-45.31	31.79	-67.69	-25.00	42.69	146	233	Vertical
3	7743.8700	40.39	-42.76	36.70	-60.94	-25.00	35.94	186	192	Vertical
4	10325.1600	35.72	-39.07	38.36	-60.25	-25.00	35.25	259	69	Vertical
5	12906.4500	34.23	-37.12	39.07	-59.08	-25.00	34.08	191	342	Vertical
6	15487.7400	31.64	-35.14	40.28	-58.49	-25.00	33.49	172	352	Vertical



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Test Band = LTE Band38_CA_TM1

Test Channel = Low ANT5

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5142.1800	41.83	-45.33	31.74	-67.02	-25.00	42.02	244	234	Horizontal
2	7713.2700	40.11	-43.01	36.69	-61.48	-25.00	36.48	136	289	Horizontal
3	10284.3600	35.60	-39.15	38.34	-60.47	-25.00	35.47	256	344	Horizontal
4	12855.4500	34.34	-36.99	39.06	-58.85	-25.00	33.85	192	261	Horizontal
5	15426.5400	33.98	-34.00	40.40	-54.87	-25.00	29.87	158	356	Horizontal
6	17997.6300	31.71	-34.58	46.79	-51.34	-25.00	26.34	172	180	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	5142.1800	41.03	-45.33	31.74	-67.82	-25.00	42.82	284	17	Vertical
2	7713.2700	39.62	-43.01	36.69	-61.97	-25.00	36.97	175	220	Vertical
3	10284.3600	34.98	-39.15	38.34	-61.09	-25.00	36.09	146	207	Vertical
4	12855.4500	33.37	-36.99	39.06	-59.82	-25.00	34.82	136	44	Vertical
5	15426.5400	33.32	-34.00	40.40	-55.53	-25.00	30.53	256	315	Vertical
6	17997.6300	31.66	-34.58	46.79	-51.39	-25.00	26.39	133	180	Vertical



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Test Band = LTE Band38_CA_TM1

Test Channel = Mid ANT5

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3786	43.75	-45.86	28.89	-68.49	-25.00	43.49	255	194	Horizontal
2	5152.3800	40.89	-45.32	31.77	-67.93	-25.00	42.93	145	0	Horizontal
3	7728.5700	39.58	-42.89	36.69	-61.87	-25.00	36.87	169	235	Horizontal
4	10304.7600	35.26	-39.09	38.35	-60.73	-25.00	35.73	182	2	Horizontal
5	12880.9500	33.27	-37.06	39.06	-59.98	-25.00	34.98	174	194	Horizontal
6	15457.1400	33.00	-34.57	40.34	-56.49	-25.00	31.49	199	1	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	4274	43.72	-45.60	29.76	-67.38	-25.00	42.38	244	289	Vertical
2	5152.3800	41.37	-45.32	31.77	-67.45	-25.00	42.45	185	139	Vertical
3	7728.5700	39.42	-42.89	36.69	-62.03	-25.00	37.03	172	330	Vertical
4	10304.7600	34.58	-39.09	38.35	-61.41	-25.00	36.41	166	342	Vertical
5	12880.9500	33.21	-37.06	39.06	-60.04	-25.00	35.04	235	360	Vertical
6	15457.1400	31.97	-34.57	40.34	-57.52	-25.00	32.52	145	248	Vertical



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Test Band = LTE Band38_CA_TM1

Test Channel = High ANT5

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3651.5	44.84	-45.81	28.75	-67.47	-25.00	42.47	266	286	Horizontal
2	5162.5800	40.79	-45.31	31.79	-67.99	-25.00	42.99	135	73	Horizontal
3	7743.8700	39.39	-42.76	36.70	-61.94	-25.00	36.94	154	117	Horizontal
4	10325.1600	34.99	-39.07	38.36	-60.98	-25.00	35.98	175	300	Horizontal
5	12906.4500	33.72	-37.12	39.07	-59.59	-25.00	34.59	188	286	Horizontal
6	15487.7400	31.64	-35.14	40.28	-58.49	-25.00	33.49	192	34	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	4282	43.14	-45.58	29.78	-67.92	-25.00	42.92	254	43	Vertical
2	5162.5800	40.95	-45.31	31.79	-67.83	-25.00	42.83	144	291	Vertical
3	7743.8700	39.48	-42.76	36.70	-61.85	-25.00	36.85	153	359	Vertical
4	10325.1600	36.28	-39.07	38.36	-59.69	-25.00	34.69	261	334	Vertical
5	12906.4500	33.18	-37.12	39.07	-60.13	-25.00	35.13	136	16	Vertical
6	15487.7400	31.36	-35.14	40.28	-58.77	-25.00	33.77	251	112	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) - Pre-amplifier (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
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	VH	NT	15.80	0.006112	PASS
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	VL	NT	15.60	0.006035	PASS
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	VN	NT	16.20	0.006267	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	-30	15.10	0.005841	PASS
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	-20	22.00	0.008510	PASS
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	-10	17.10	0.006615	PASS
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	0	20.10	0.007775	PASS
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	10	14.60	0.005648	PASS
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	20	14.00	0.005416	PASS
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	30	57.80	0.022359	PASS
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	40	50.00	0.019342	PASS
38-38	20MHz -20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	50	32.00	0.016365	PASS

---End of Attachment---



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