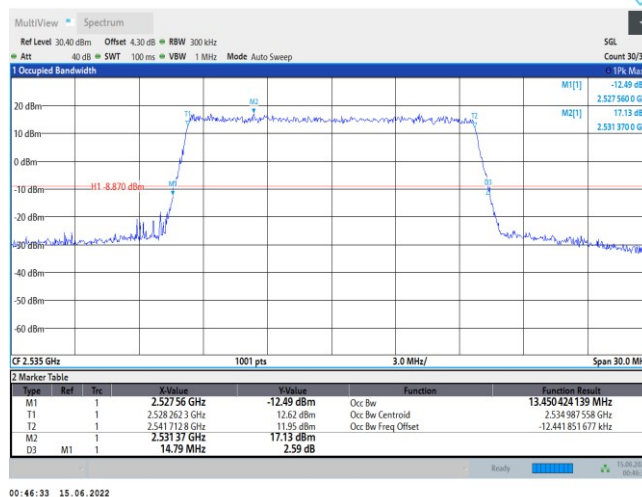


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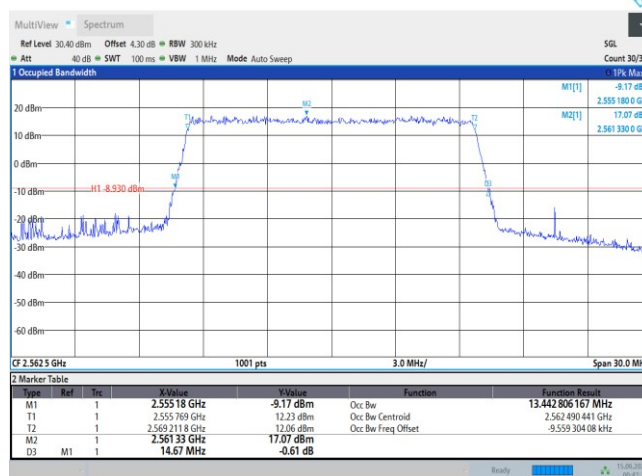
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Band7-15MHz-16QAM-21100-75RB#0



00:46:33 15.06.2022

Band7-15MHz-16QAM-21375-75RB#0



00:47:21 15.06.2022



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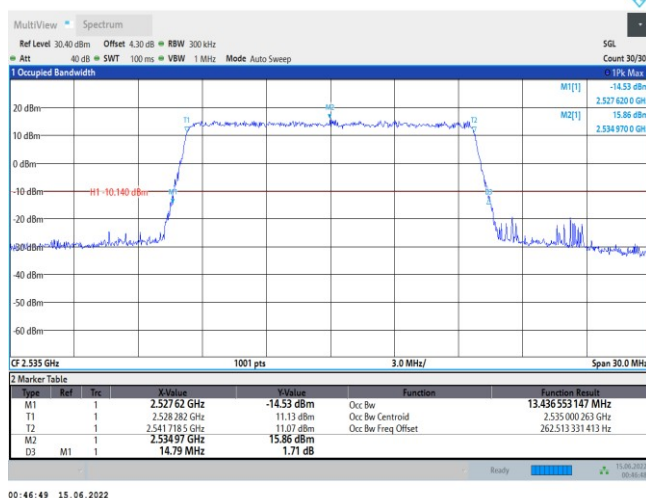
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Band7-15MHz-64QAM-20825-75RB#0



Band7-15MHz-64QAM-21100-75RB#0

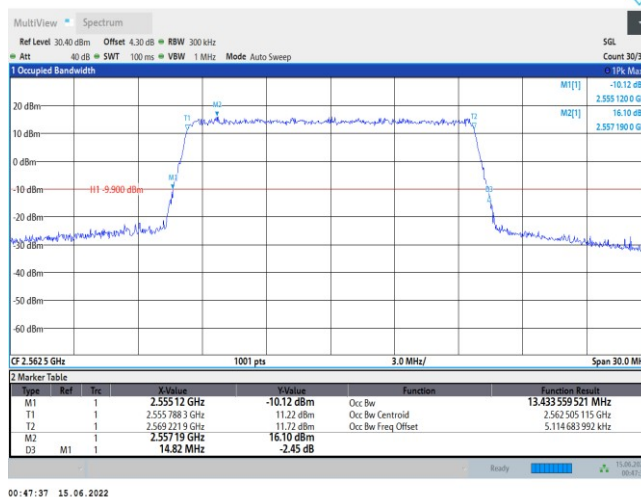


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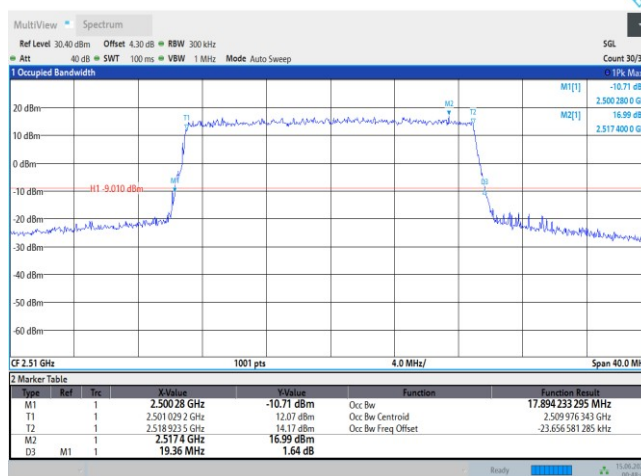
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Band7-15MHz-64QAM-21375-75RB#0



00:47:37 15.06.2022

Band7-20MHz-QPSK-20850-100RB#0



00:48:46 15.06.2022



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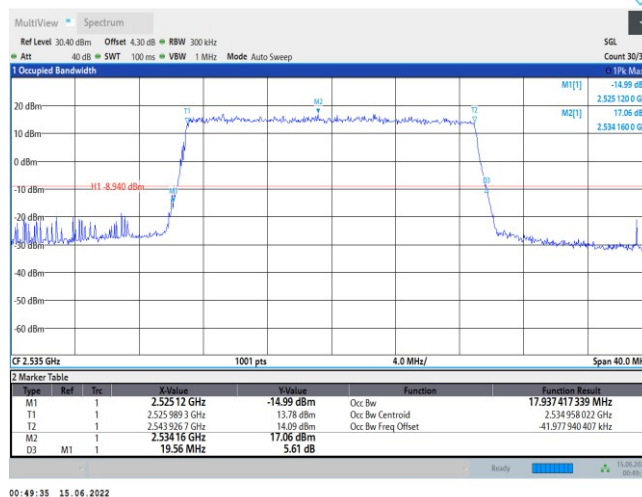
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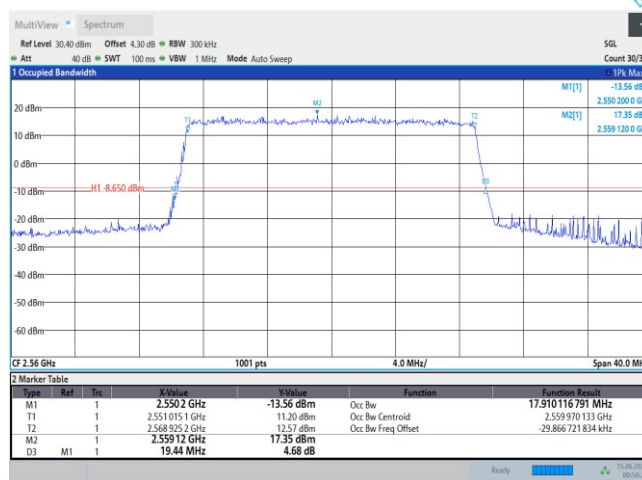
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Band7-20MHz-QPSK-21100-100RB#0



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Band7-20MHz-QPSK-21350-100RB#0



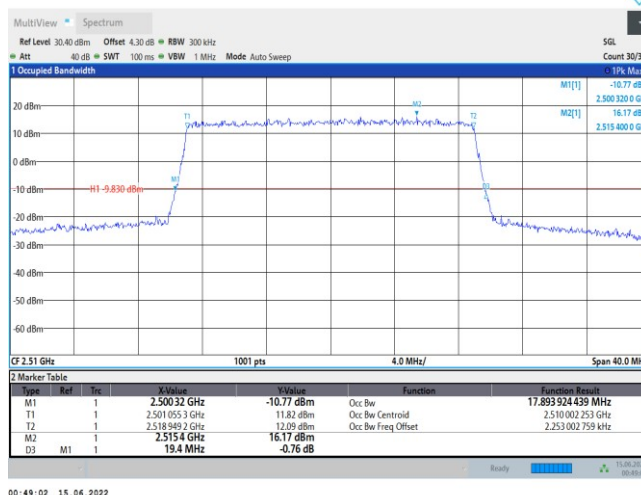
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Band7-20MHz-16QAM-20850-100RB#0



Band7-20MHz-16QAM-21100-100RB#0



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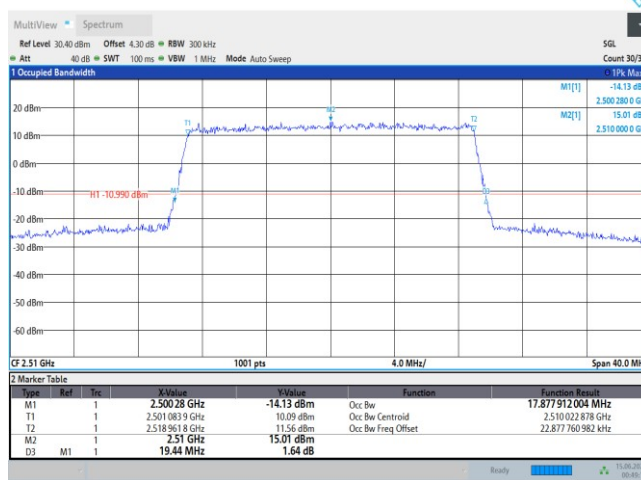
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Band7-20MHz-64QAM-20850-100RB#0



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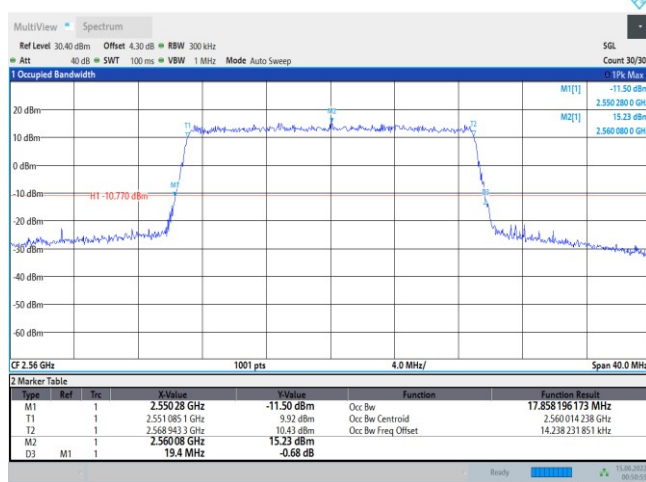
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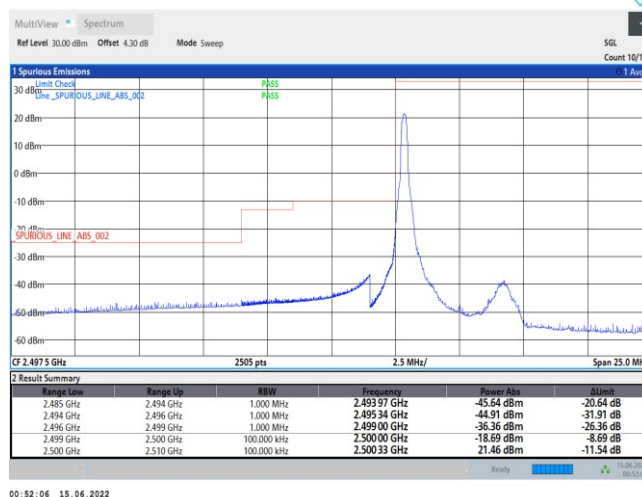


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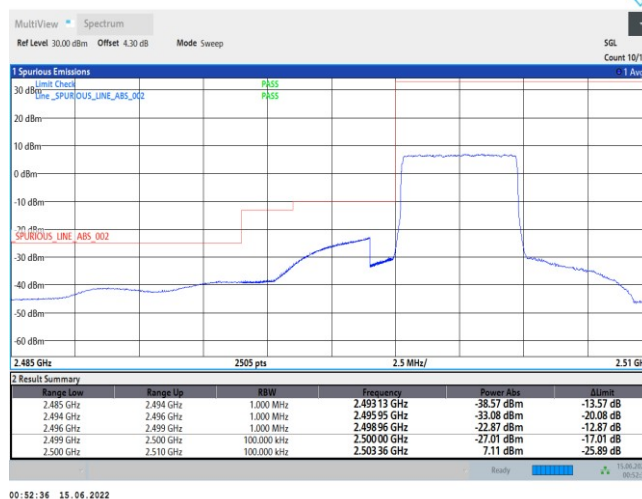
Band Edge

Test Graphs

Band7-5MHz-QPSK-20775-1RB#0



Band7-5MHz-QPSK-20775-25RB#0

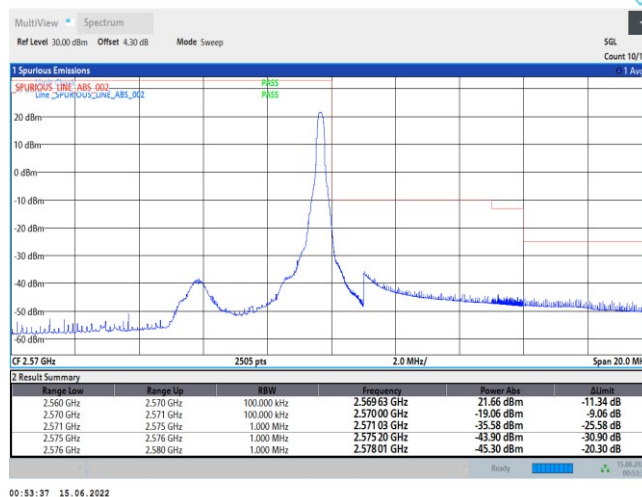


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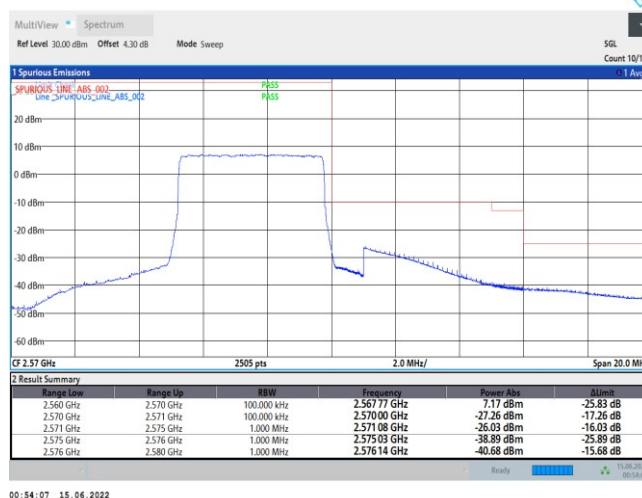
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Band7-5MHz-QPSK-21425-1RB#24



Band7-5MHz-QPSK-21425-25RB#0



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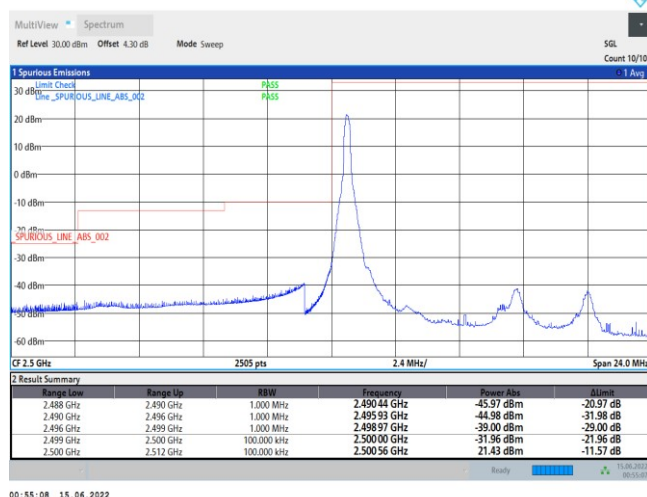
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Band7-10MHz-QPSK-20800-1RB#0



Band7-10MHz-QPSK-20800-50RB#0



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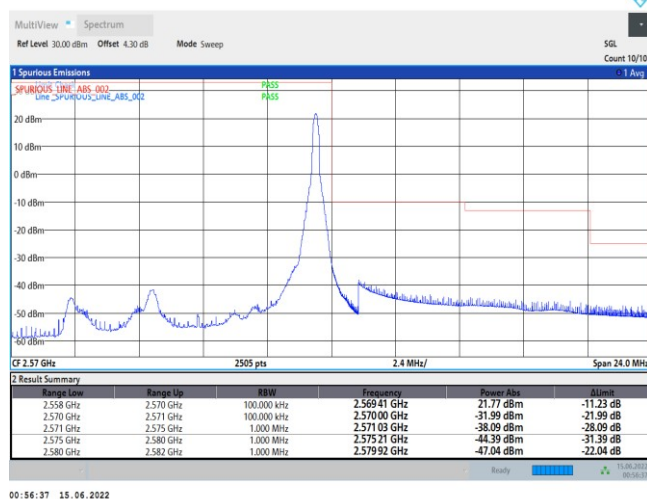
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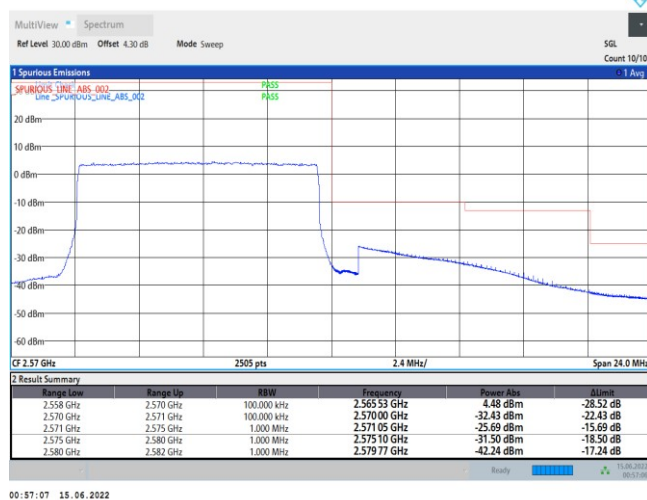
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Band7-10MHz-QPSK-21400-1RB#49



Band7-10MHz-QPSK-21400-50RB#0



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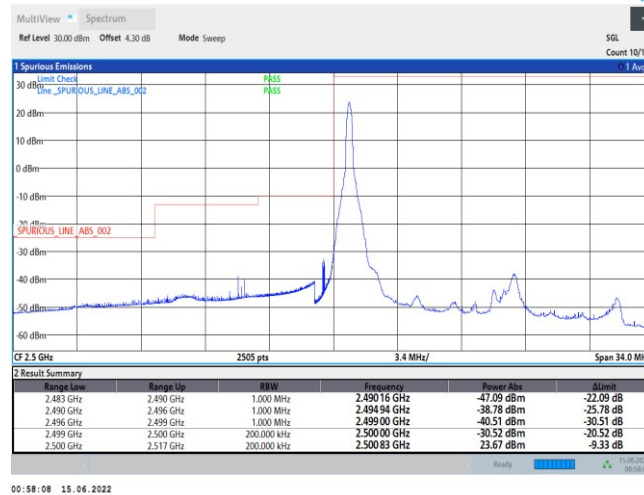
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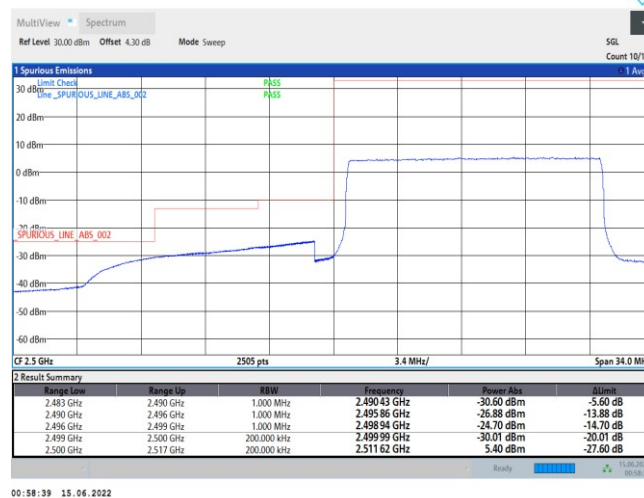
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Band7-15MHz-QPSK-20825-1RB#0



Band7-15MHz-QPSK-20825-75RB#0



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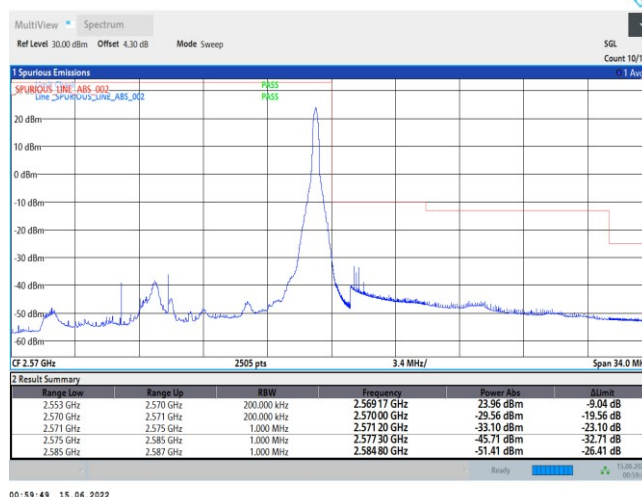
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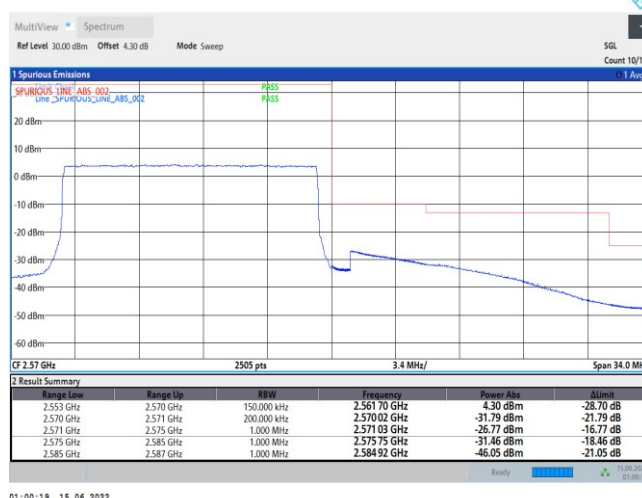
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Band7-15MHz-QPSK-21375-1RB#74



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Band7-15MHz-QPSK-21375-75RB#0



01:00:19 15.06.2022



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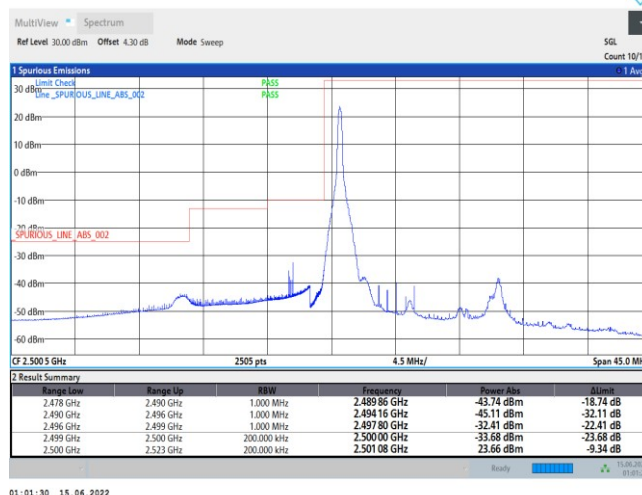
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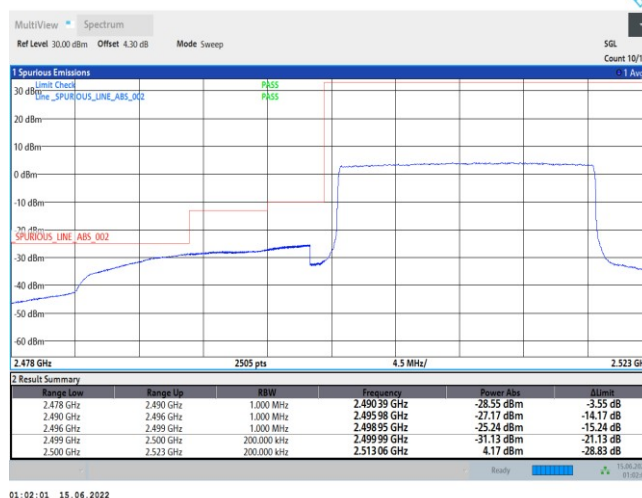
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Band7-20MHz-QPSK-20850-1RB#0



Band7-20MHz-QPSK-20850-100RB#0



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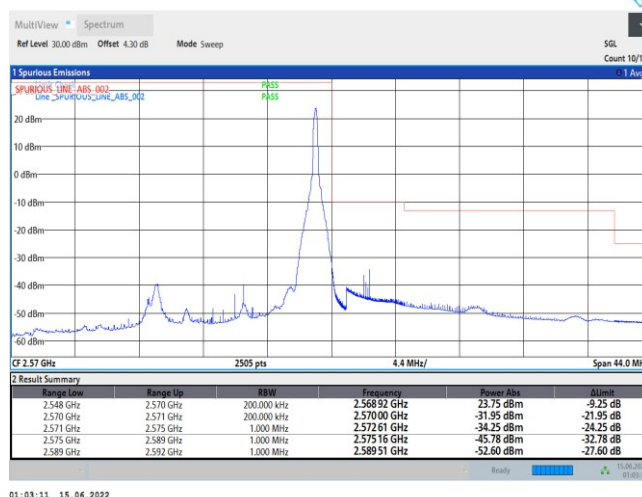
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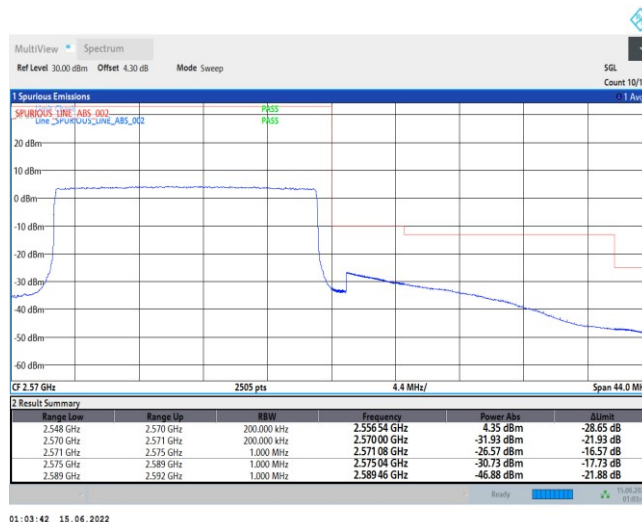
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Band7-20MHz-QPSK-21350-1RB#99



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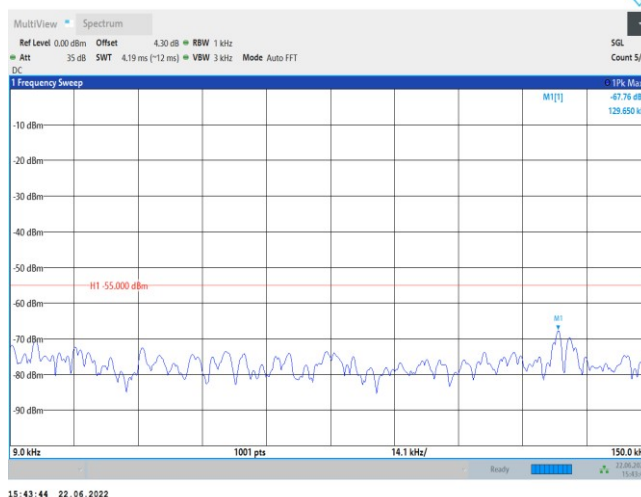
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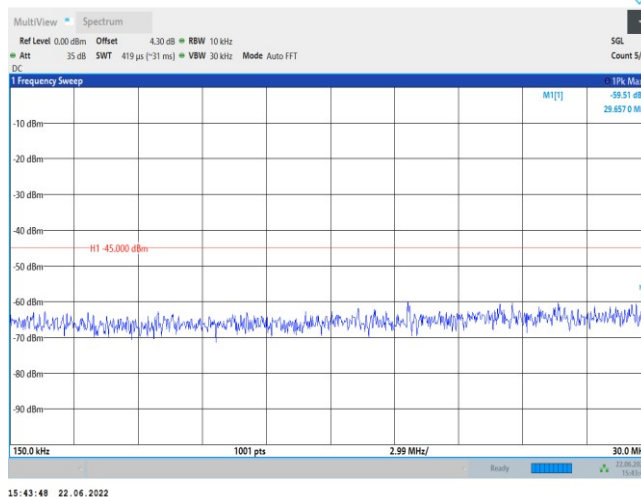
Conducted Spurious Emission

Test Graphs

Band7-20MHz-QPSK-20850-1RB#0-Range1:0.009~0.15MHz



Band7-20MHz-QPSK-20850-1RB#0-Range2:0.15~30MHz



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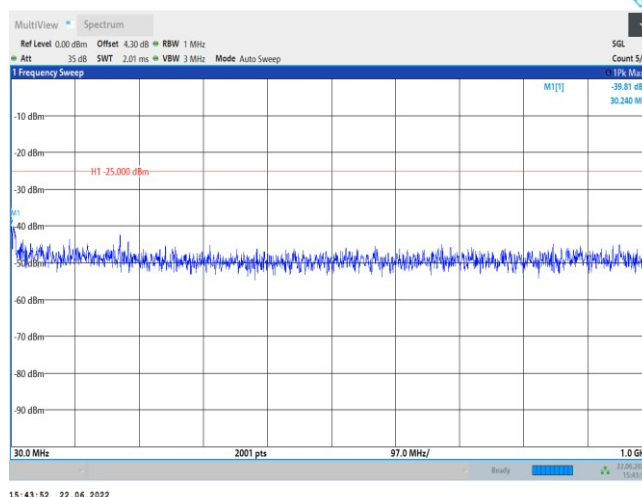
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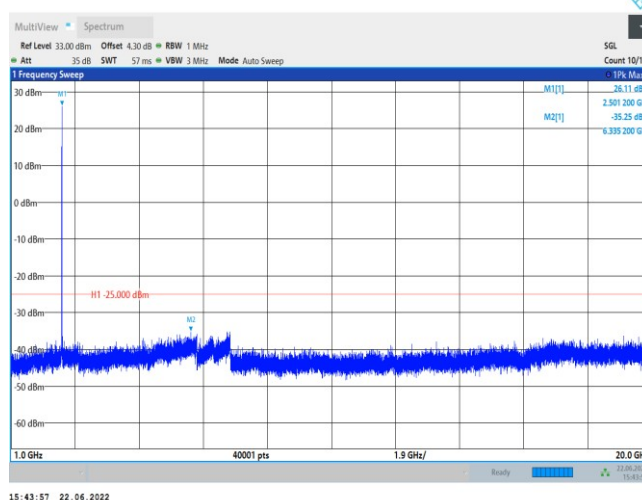
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Band7-20MHz-QPSK-20850-1RB#0-Range3:30~1000MHz



Band7-20MHz-QPSK-20850-1RB#0-Range4:1000~20000MHz



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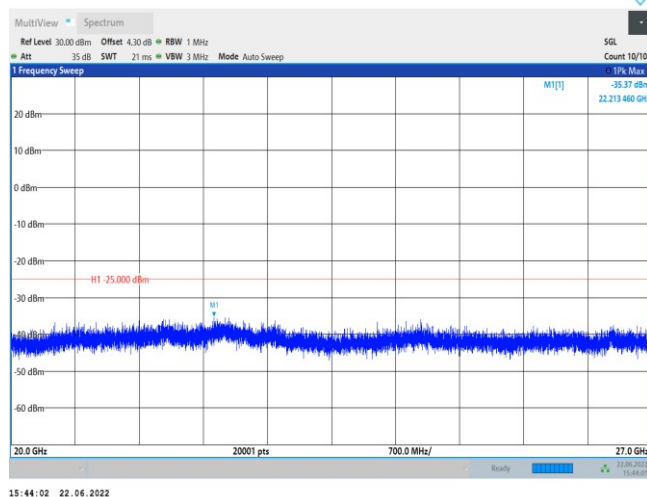
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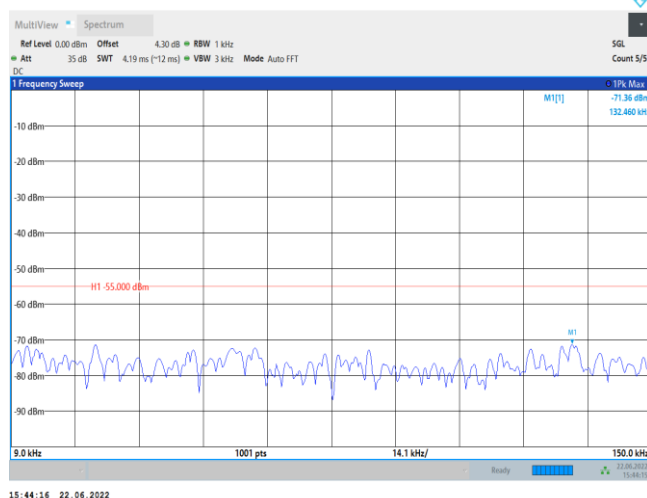
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Band7-20MHz-QPSK-20850-1RB#0-Range5:20000~27000MHz



Band7-20MHz-QPSK-21100-1RB#0-Range1:0.009~0.15MHz



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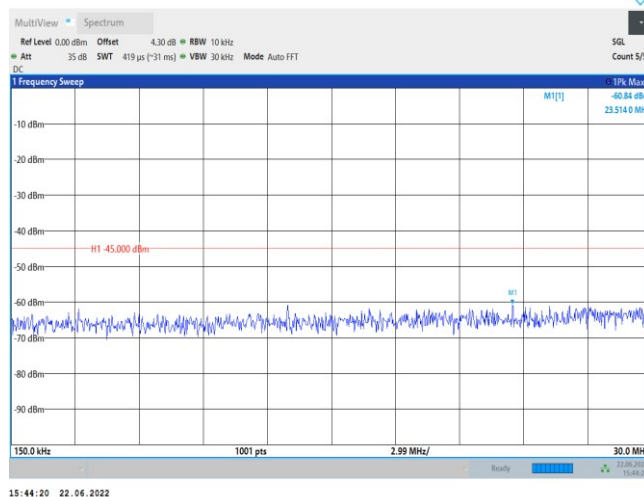
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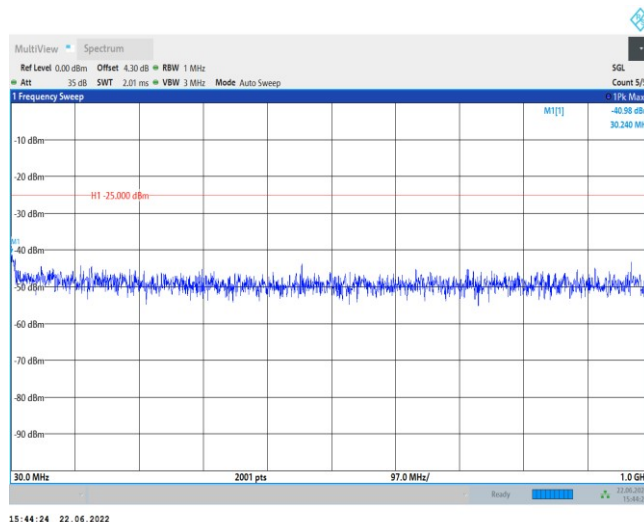
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Band7-20MHz-QPSK-21100-1RB#0-Range2:0.15~30MHz



Band7-20MHz-QPSK-21100-1RB#0-Range3:30~1000MHz



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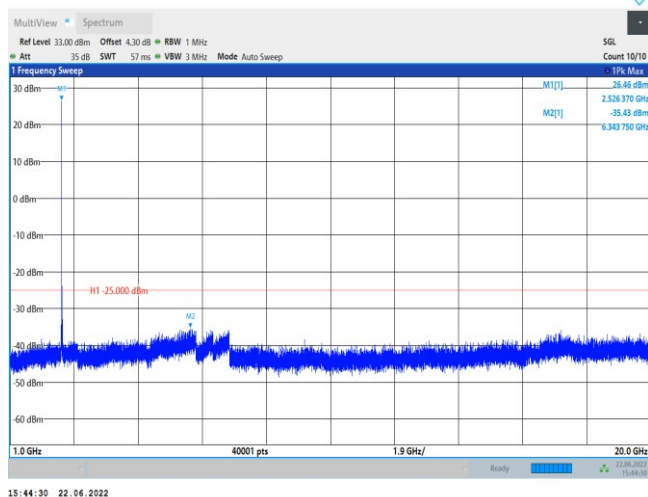
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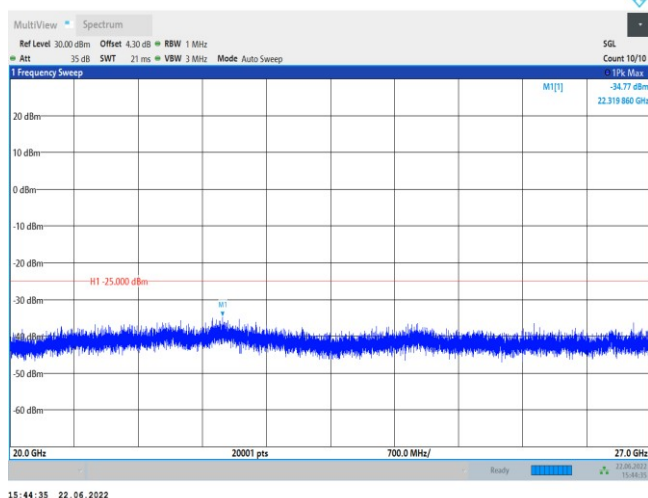
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Band7-20MHz-QPSK-21100-1RB#0-Range4:1000~20000MHz



15:44:30 22.06.2022

Band7-20MHz-QPSK-21100-1RB#0-Range5:20000~27000MHz



15:44:35 22.06.2022



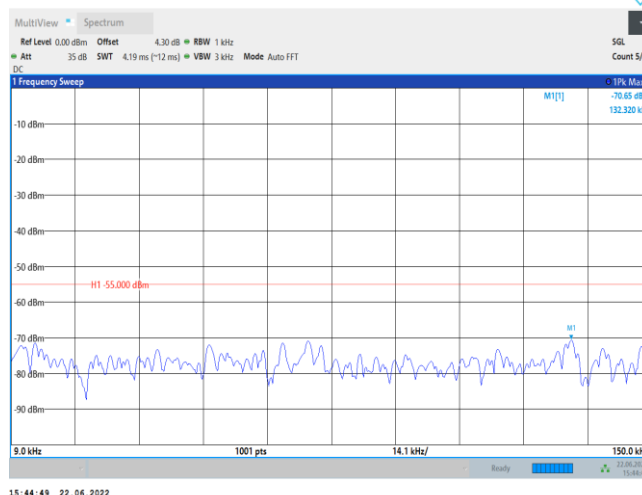
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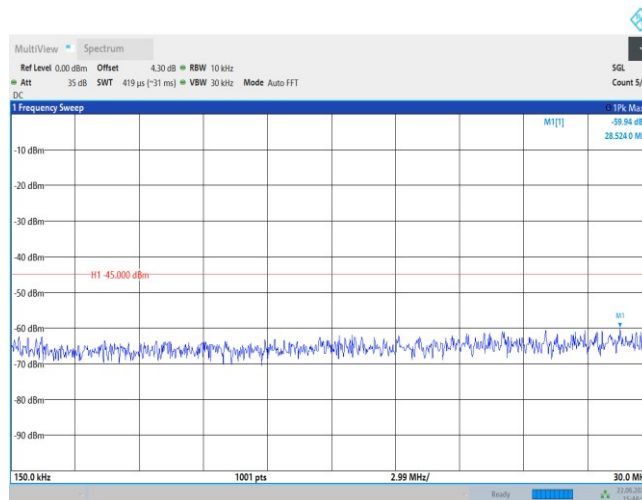
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Band7-20MHz-QPSK-21350-1RB#0-Range1:0.009~0.15MHz



15:44:49 22.06.2022

Band7-20MHz-QPSK-21350-1RB#0-Range2:0.15~30MHz



15:44:53 22.06.2022



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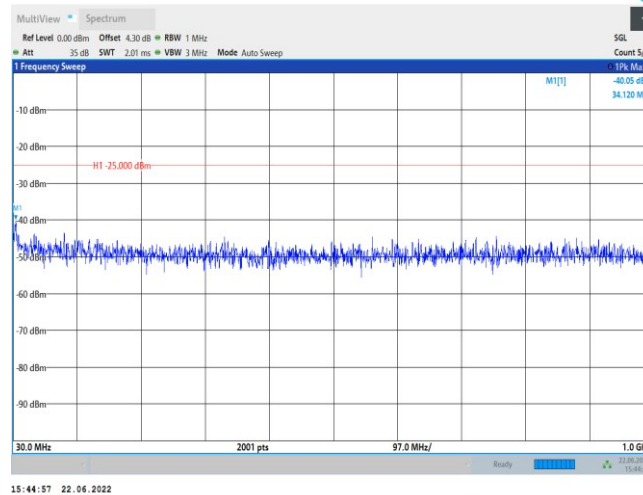
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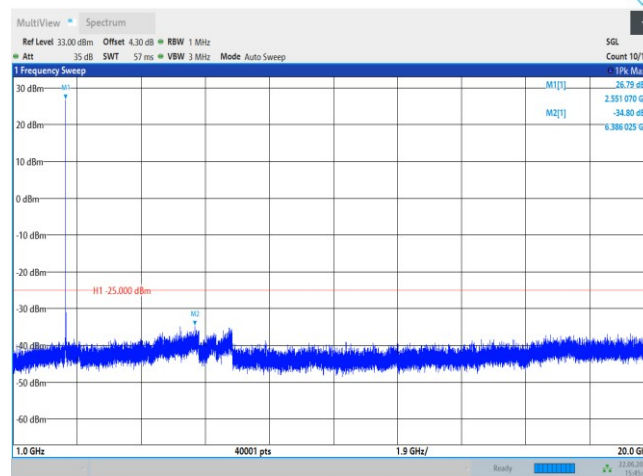
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Band7-20MHz-QPSK-21350-1RB#0-Range3:30~1000MHz



15:44:57 22.06.2022

Band7-20MHz-QPSK-21350-1RB#0-Range4:1000~20000MHz



15:45:03 22.06.2022



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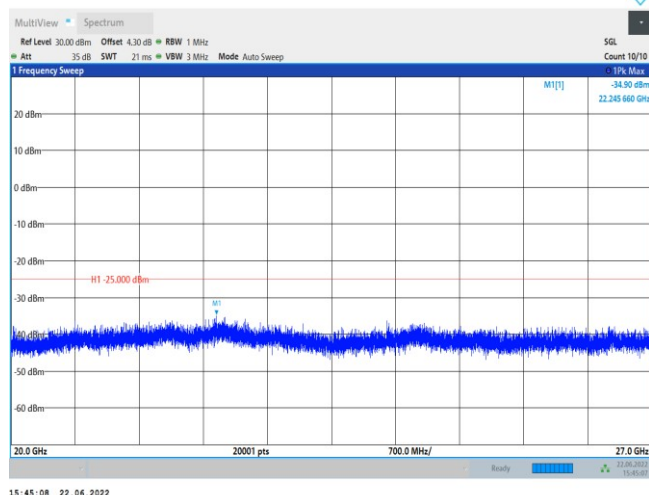
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Band7-20MHz-QPSK-21350-1RB#0-Range5:20000~27000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band 7_ TM1
Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.1800	48.55	-108.01	-59.46	-25.00	34.46	291	167	Horizontal
2	7503.2700	46.19	-101.95	-55.76	-25.00	30.76	234	288	Horizontal
3	10004.3600	39.87	-96.00	-56.13	-25.00	31.13	182	360	Horizontal
4	12505.4500	36.91	-93.07	-56.16	-25.00	31.16	137	136	Horizontal
5	15006.5400	33.45	-90.70	-57.25	-25.00	32.25	164	227	Horizontal
6	17507.6300	37.91	-90.99	-53.08	-25.00	28.08	284	122	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.1800	49.03	-108.01	-58.98	-25.00	33.98	291	59	Vertical
2	7503.2700	46.06	-101.95	-55.89	-25.00	30.89	134	151	Vertical
3	10004.3600	40.17	-96.00	-55.83	-25.00	30.83	172	270	Vertical
4	12505.4500	37.38	-93.07	-55.69	-25.00	30.69	264	256	Vertical
5	15006.5400	34.26	-90.70	-56.44	-25.00	31.44	284	120	Vertical
6	17507.6300	37.21	-90.99	-53.78	-25.00	28.78	172	151	Vertical



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Test Band = LTE Band 7_ TM1

Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5052.1800	48.26	-107.85	-59.59	-25.00	34.59	261	59	Horizontal
2	7578.2700	46.40	-101.83	-55.43	-25.00	30.43	275	13	Horizontal
3	10104.3600	40.03	-95.74	-55.71	-25.00	30.71	291	328	Horizontal
4	12630.4500	36.77	-93.26	-56.49	-25.00	31.49	162	164	Horizontal
5	15156.5400	34.16	-90.62	-56.46	-25.00	31.46	182	13	Horizontal
6	17682.6300	37.75	-89.09	-51.34	-25.00	26.34	172	209	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5052.1800	48.83	-107.85	-59.02	-25.00	34.02	291	313	Vertical
2	7578.2700	46.43	-101.83	-55.40	-25.00	30.40	271	133	Vertical
3	10104.3600	41.88	-95.74	-53.86	-25.00	28.86	264	60	Vertical
4	12630.4500	37.34	-93.26	-55.92	-25.00	30.92	173	298	Vertical
5	15156.5400	36.27	-90.62	-54.35	-25.00	29.35	142	60	Vertical
6	17682.6300	38.64	-89.09	-50.45	-25.00	25.45	192	360	Vertical



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Test Band = LTE Band 7_ TM1
Test Channel = High

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5102.1800	48.45	-107.69	-59.24	-25.00	34.24	234	244	Horizontal
2	7653.2700	45.80	-101.80	-56.00	-25.00	31.00	291	322	Horizontal
3	10204.3600	40.45	-95.93	-55.48	-25.00	30.48	271	261	Horizontal
4	12755.4500	37.22	-92.47	-55.25	-25.00	30.25	162	153	Horizontal
5	15306.5400	34.70	-90.80	-56.10	-25.00	31.10	173	4	Horizontal
6	17857.6300	38.80	-88.58	-49.78	-25.00	24.78	194	4	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5102.1800	50.28	-107.69	-57.41	-25.00	32.41	194	134	Vertical
2	7653.2700	47.89	-101.80	-53.91	-25.00	28.91	137	195	Vertical
3	10204.3600	40.65	-95.93	-55.28	-25.00	30.28	100	60	Vertical
4	12755.4500	37.33	-92.47	-55.14	-25.00	30.14	294	120	Vertical
5	15306.5400	33.83	-90.80	-56.97	-25.00	31.97	273	209	Vertical
6	17857.6300	38.59	-88.58	-49.99	-25.00	24.99	193	224	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:

Level = Reading Level(dBμV) + Factor(dB):

Factor = AF(dB/m) + Cable Factor(dB) - Preamplifier gain(dB)

AF = Antenna Factor(dB/m)

Margin = Limit(dBm) – Level(dBm)



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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	-10.20	-0.004024	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	1.70	0.000671	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-9.40	-0.003708	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	2.00	0.000789	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	5.90	0.002327	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	4.50	0.001775	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	-5.80	-0.002288	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	-3.70	-0.001460	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	5.80	0.002288	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-7.50	-0.002959	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	-9.40	-0.003708	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-2.20	-0.000868	PASS

The End



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