

Report No.: SEWA2205000015RG01

Rev.: 01

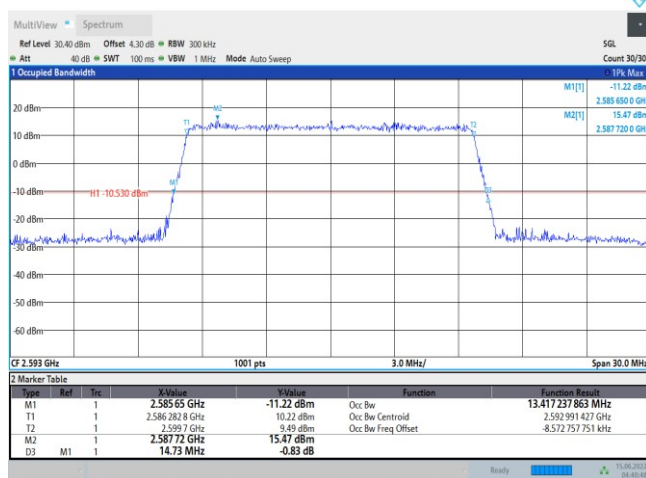
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Band41-15MHz-64QAM-39725-75RB#0



04:40:00 15.06.2022

Band41-15MHz-64QAM-40620-75RB#0



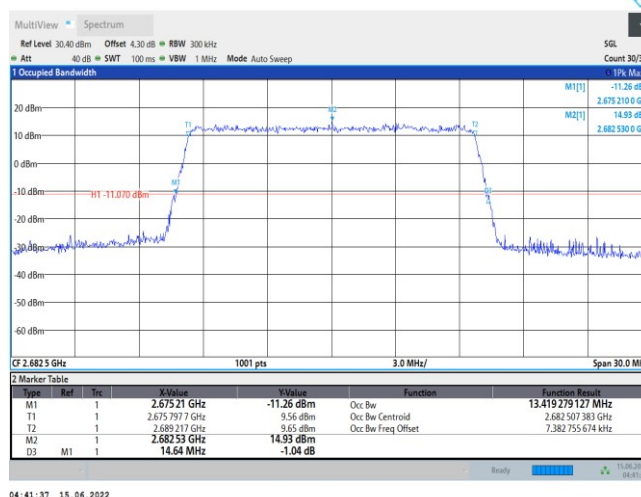
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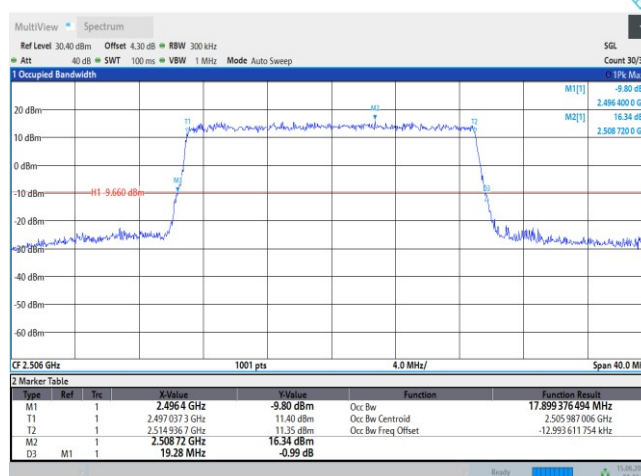
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Band41-15MHz-64QAM-41515-75RB#0



04:41:37 15.06.2022

Band41-20MHz-QPSK-39750-100RB#0



04:42:30 15.06.2022



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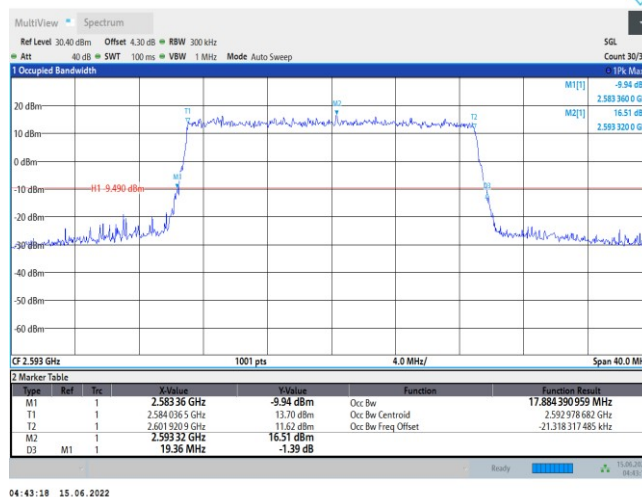
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Band41-20MHz-QPSK-40620-100RB#0



Band41-20MHz-QPSK-41490-100RB#0

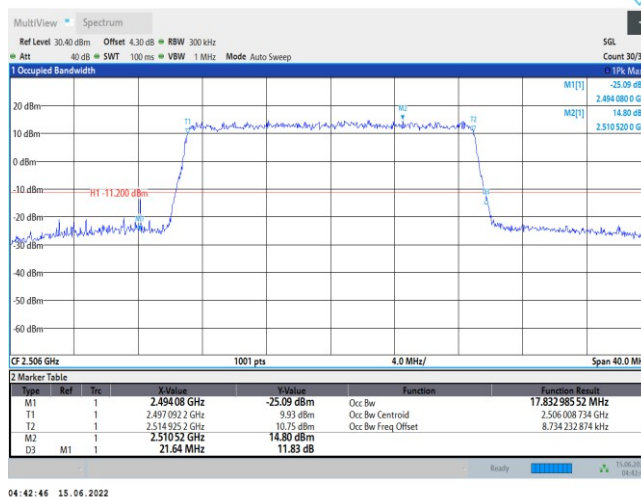


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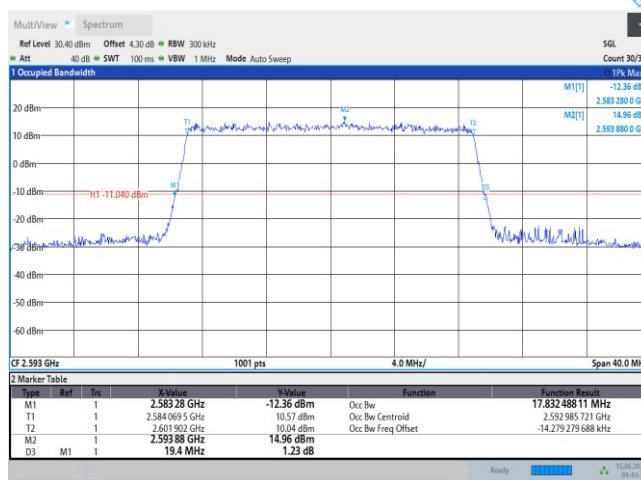
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Band41-20MHz-16QAM-39750-100RB#0



04:42:46 15.06.2022

Band41-20MHz-16QAM-40620-100RB#0



04:43:34 15.06.2022



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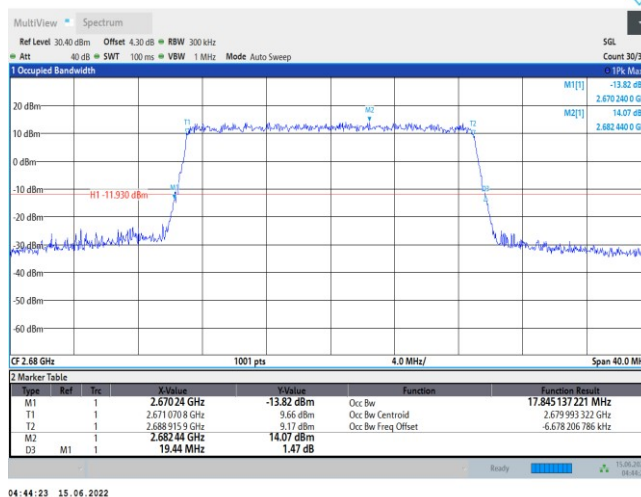
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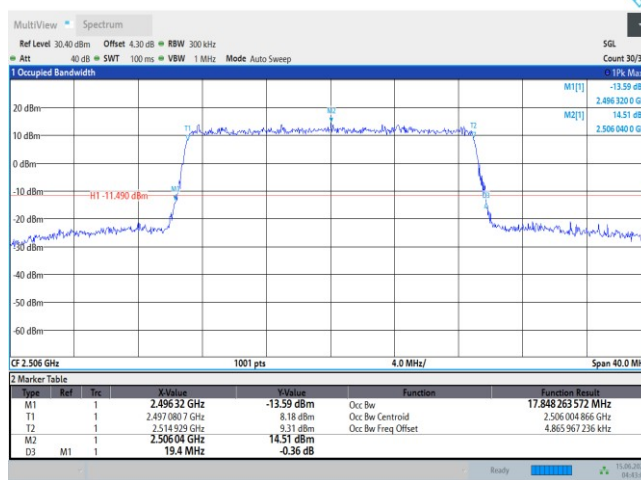
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Band41-20MHz-16QAM-41490-100RB#0



04:44:23 15.06.2022

Band41-20MHz-64QAM-39750-100RB#0



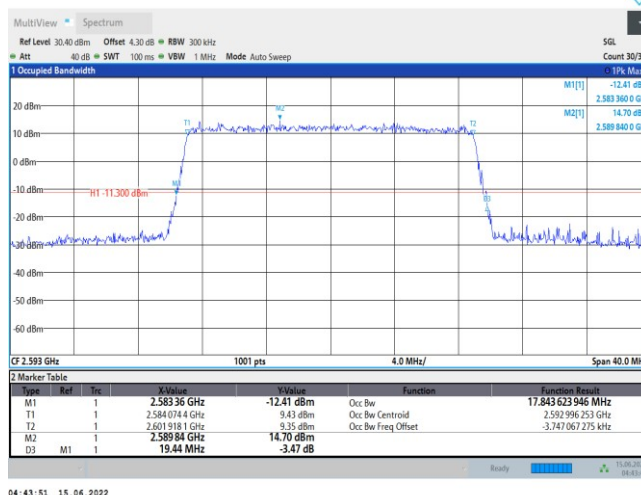
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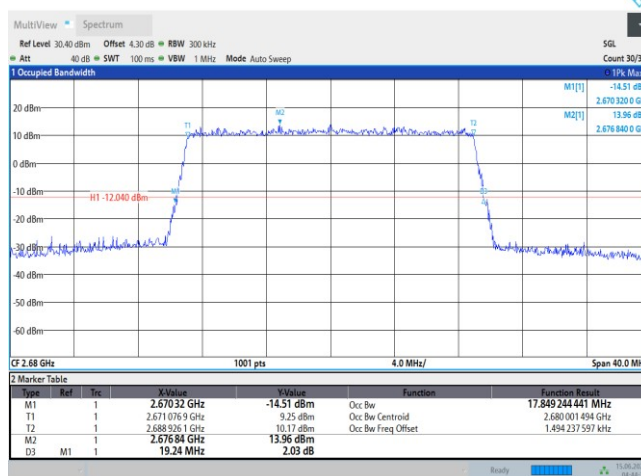
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Band41-20MHz-64QAM-40620-100RB#0



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Band41-20MHz-64QAM-41490-100RB#0



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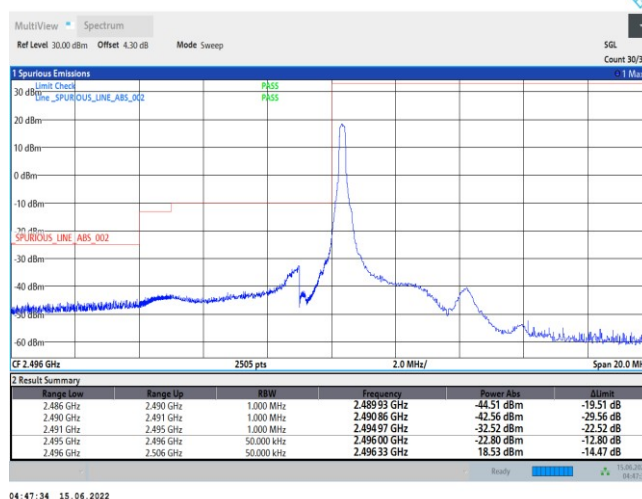
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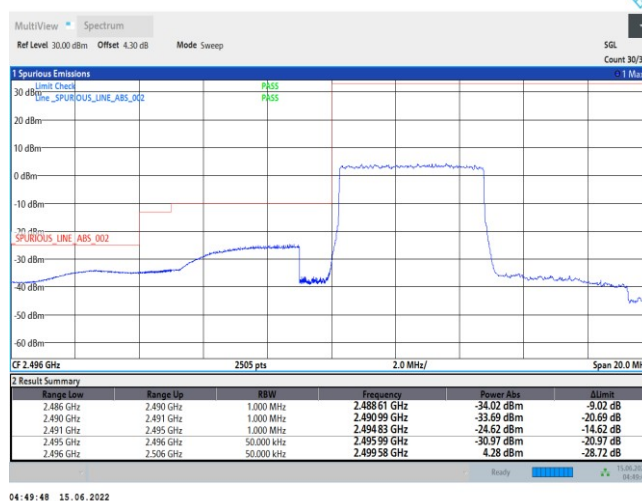
Band Edge

Test Graphs

Band41-5MHz-QPSK-39675-1RB#0



Band41-5MHz-QPSK-39675-25RB#0



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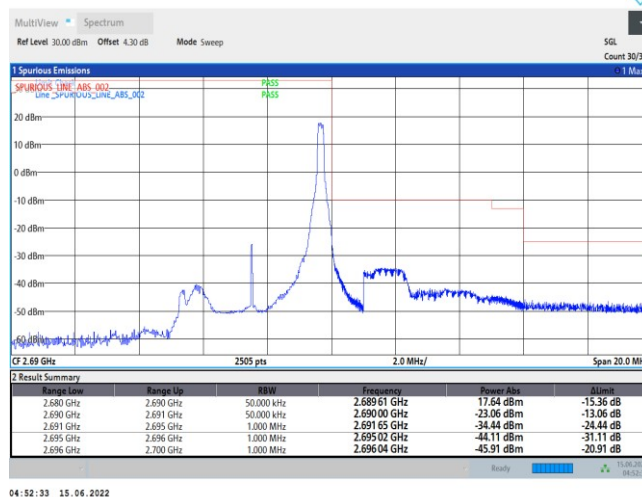
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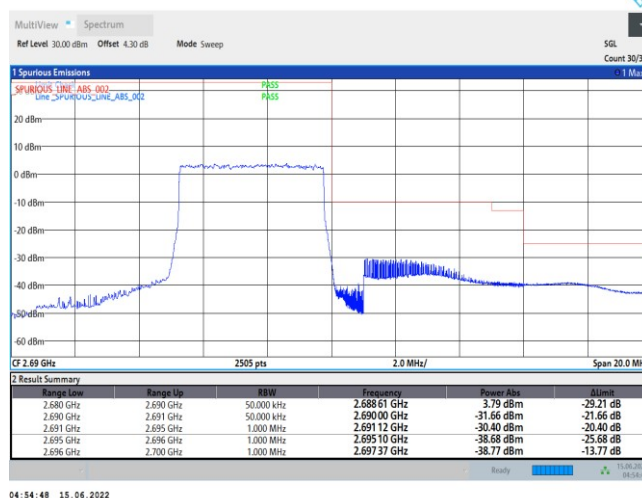
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Band41-5MHz-QPSK-41565-1RB#24



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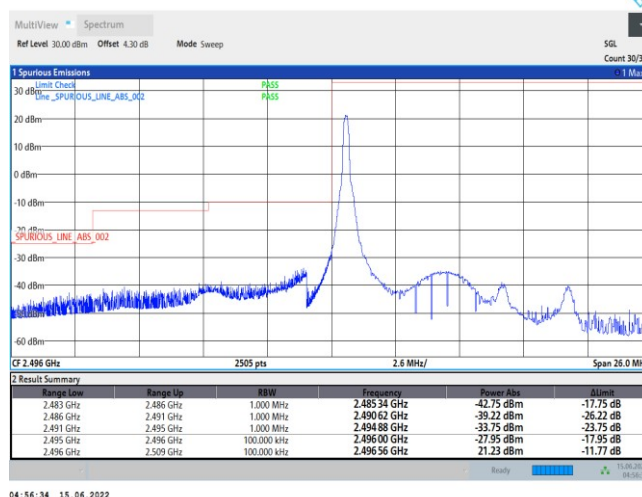
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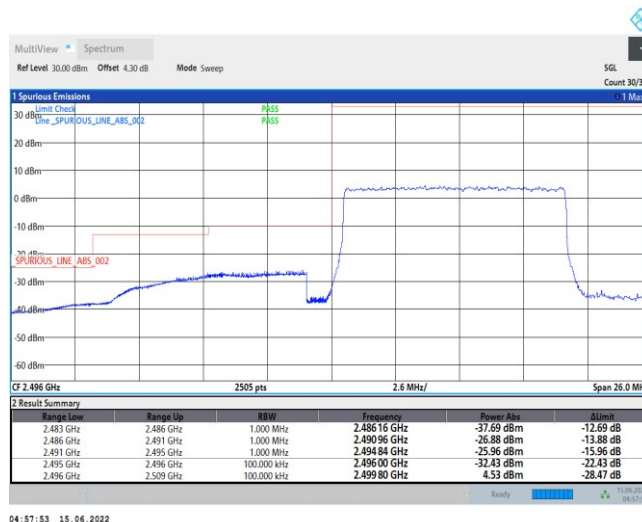
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Band41-10MHz-QPSK-39700-1RB#0



Band41-10MHz-QPSK-39700-50RB#0



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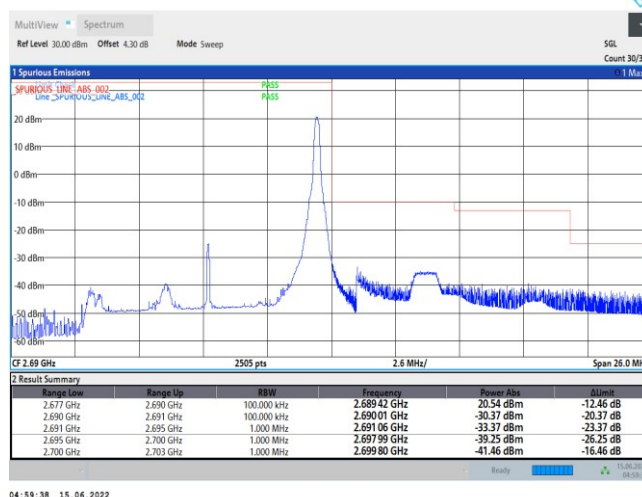
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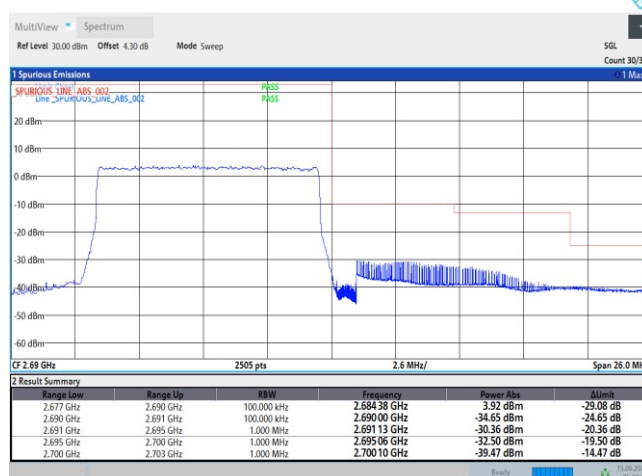
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Band41-10MHz-QPSK-41540-50RB#0



05:00:53 15.06.2022



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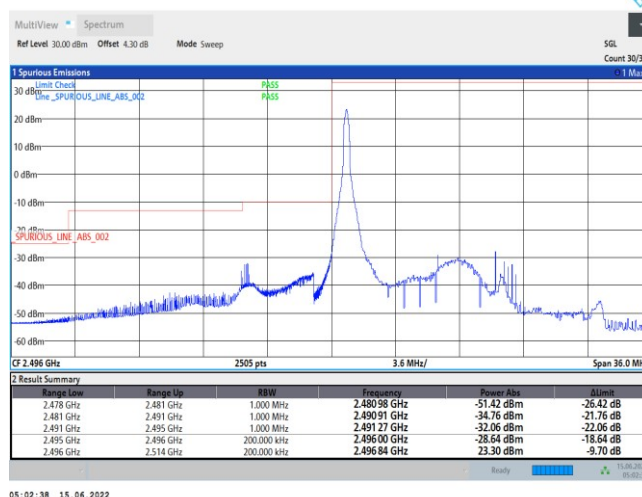
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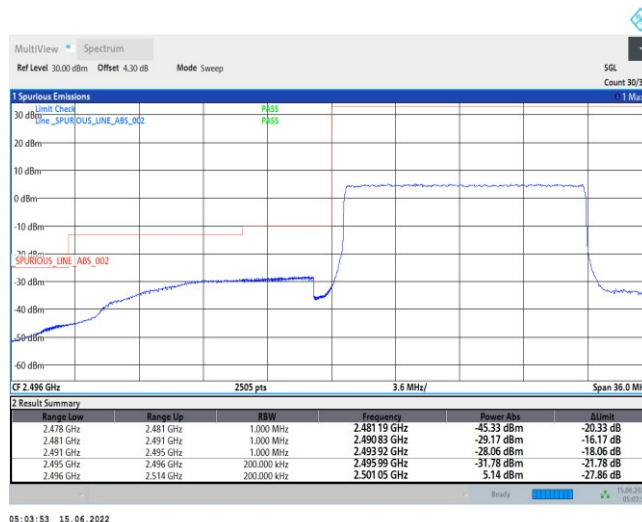
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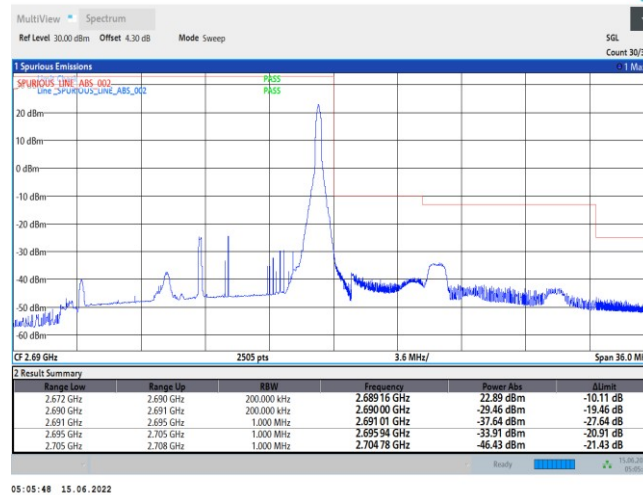
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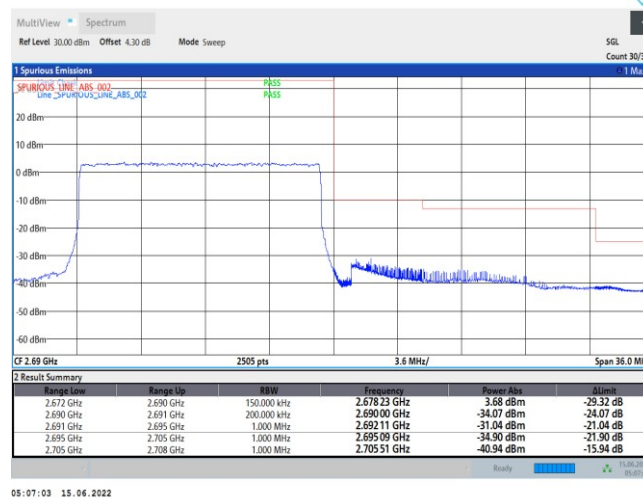
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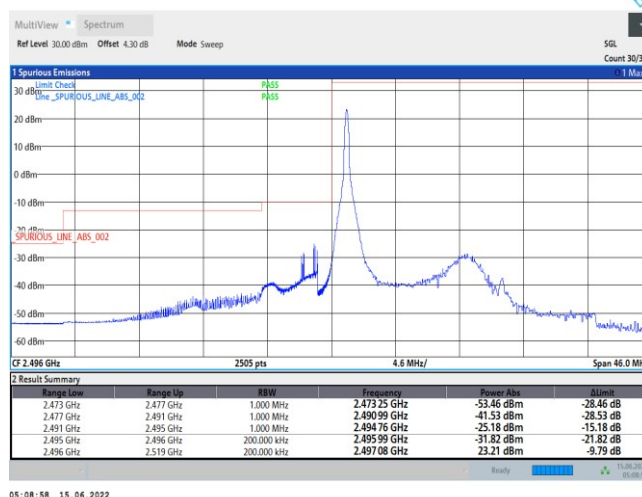
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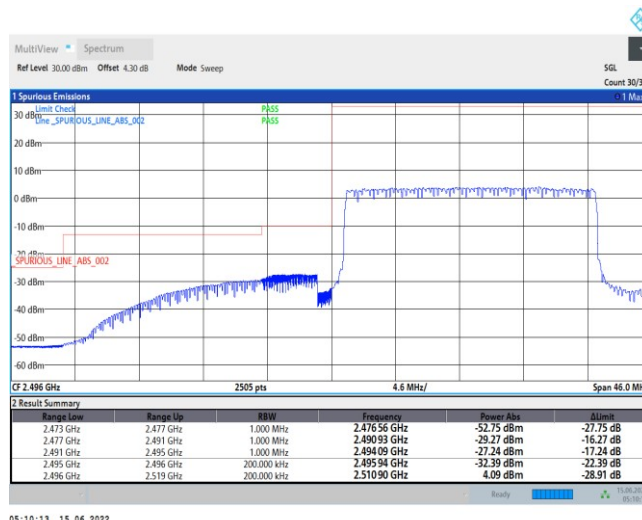
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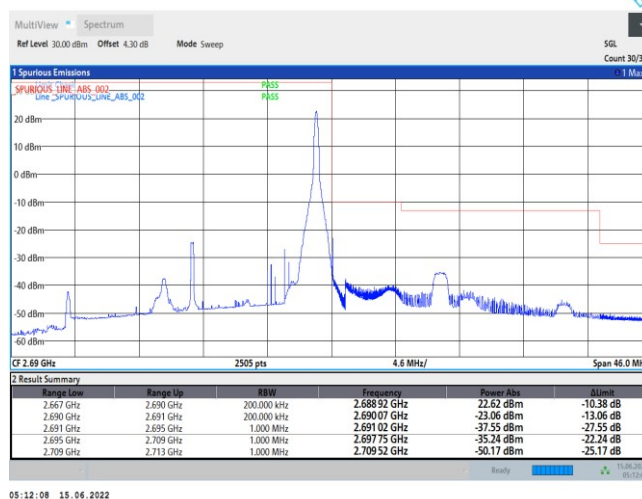
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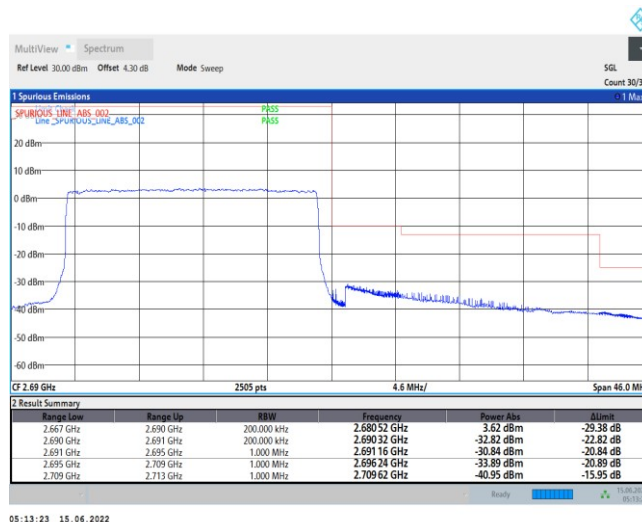
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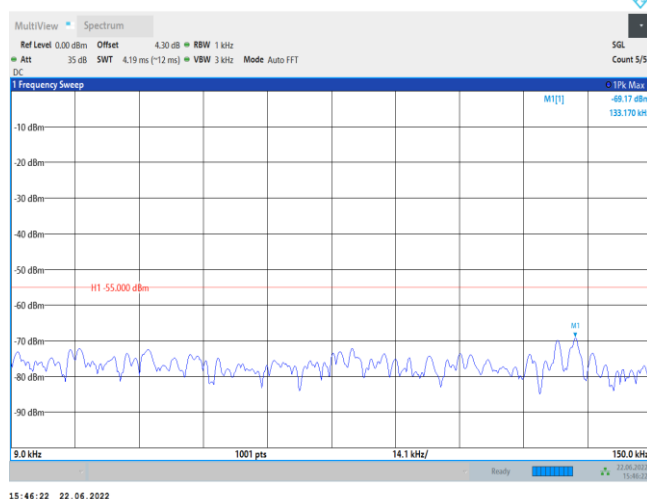
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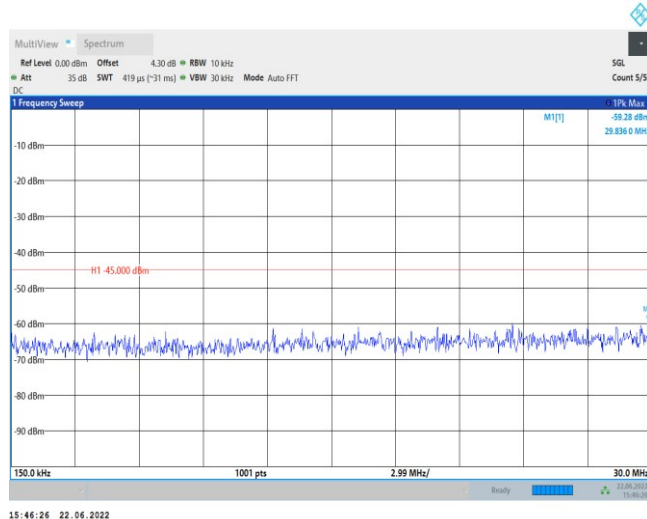
Conducted Spurious Emission

Test Graphs

Band41-20MHz-QPSK-39750-1RB#0-Range1:0.009~0.15MHz



Band41-20MHz-QPSK-39750-1RB#0-Range2:0.15~30MHz



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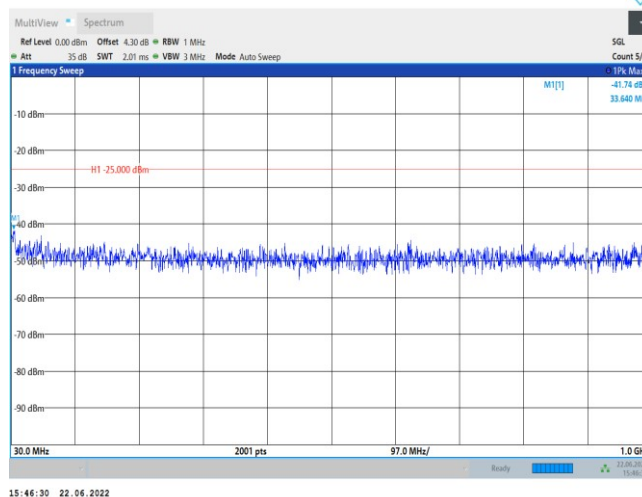
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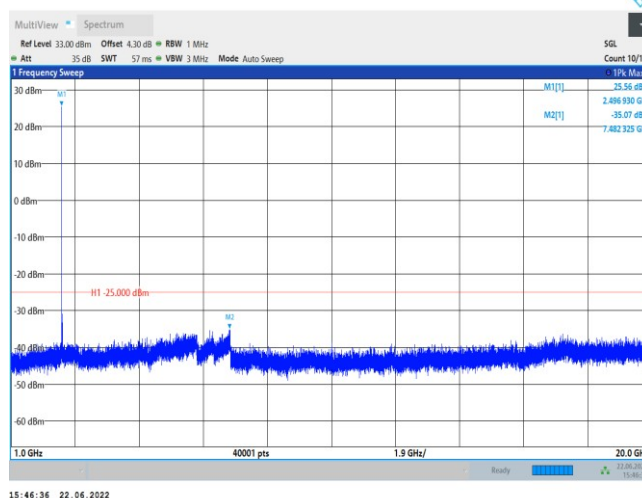
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Band41-20MHz-QPSK-39750-1RB#0-Range3:30~1000MHz



Band41-20MHz-QPSK-39750-1RB#0-Range4:1000~20000MHz



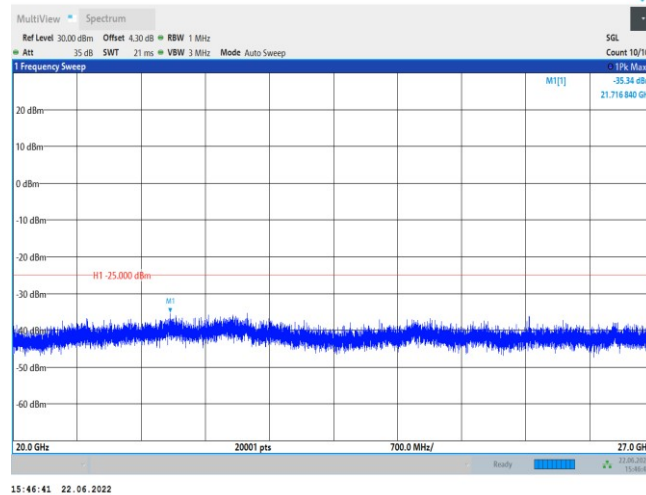
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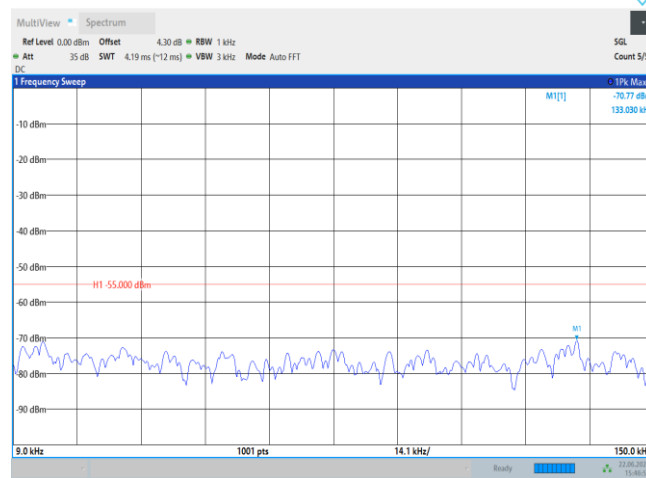
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Band41-20MHz-QPSK-39750-1RB#0-Range5:20000~27000MHz



15:46:41 22.06.2022

Band41-20MHz-QPSK-40620-1RB#0-Range1:0.009~0.15MHz



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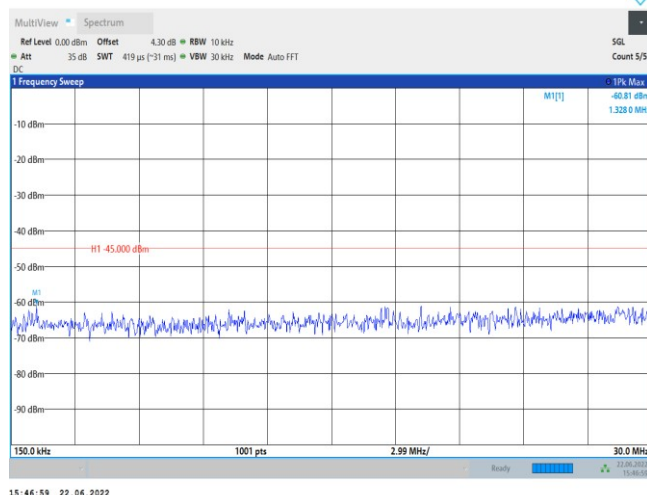
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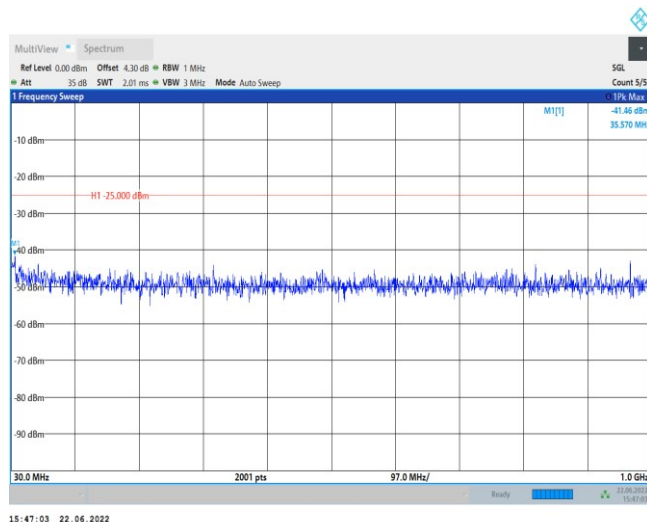
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Band41-20MHz-QPSK-40620-1RB#0-Range2:0.15~30MHz



Band41-20MHz-QPSK-40620-1RB#0-Range3:30~1000MHz



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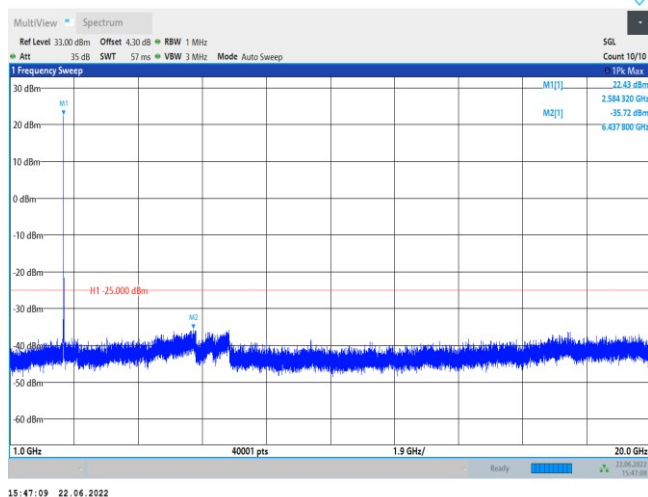
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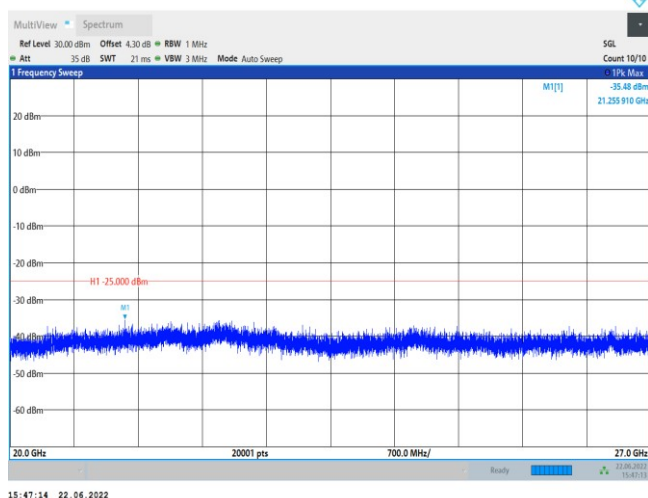
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Band41-20MHz-QPSK-40620-1RB#0-Range4:1000~20000MHz



Band41-20MHz-QPSK-40620-1RB#0-Range5:20000~27000MHz



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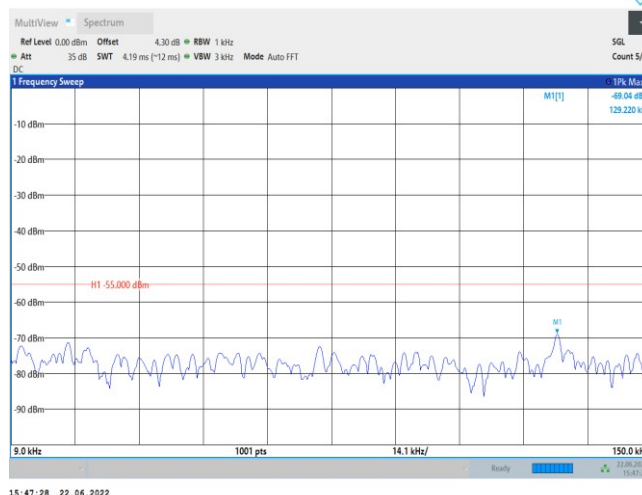
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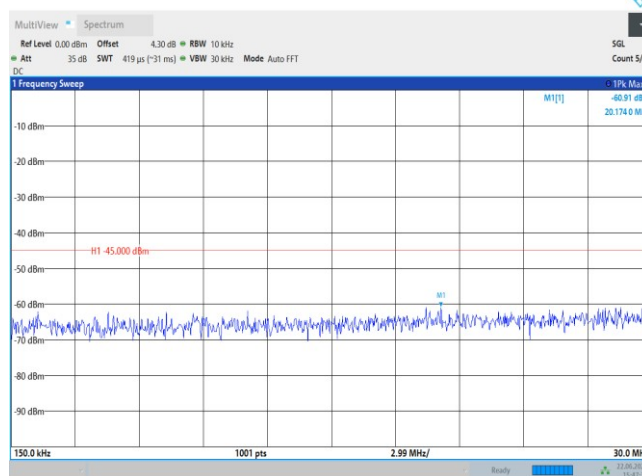
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Band41-20MHz-QPSK-41490-1RB#0-Range1:0.009~0.15MHz



15:47:28 22.06.2022

Band41-20MHz-QPSK-41490-1RB#0-Range2:0.15~30MHz



15:47:32 22.06.2022



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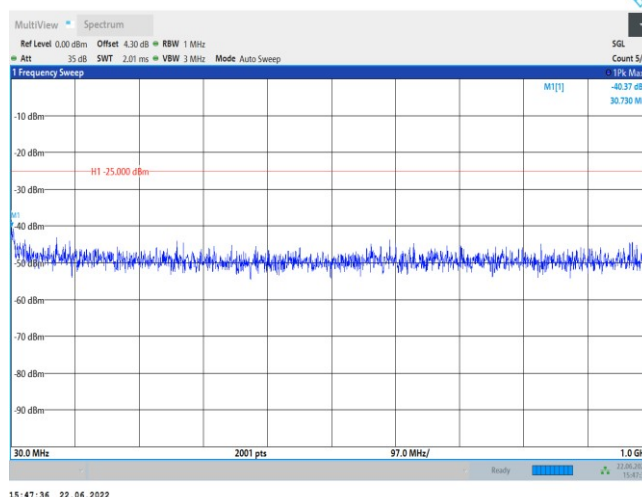
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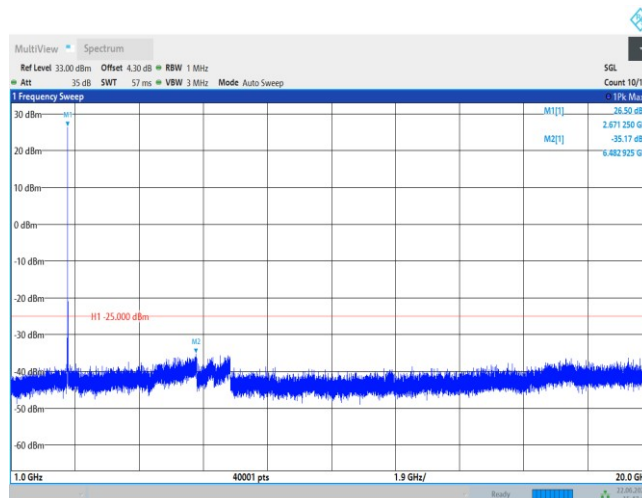
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Band41-20MHz-QPSK-41490-1RB#0-Range3:30~1000MHz



15:47:36 22.06.2022

Band41-20MHz-QPSK-41490-1RB#0-Range4:1000~20000MHz



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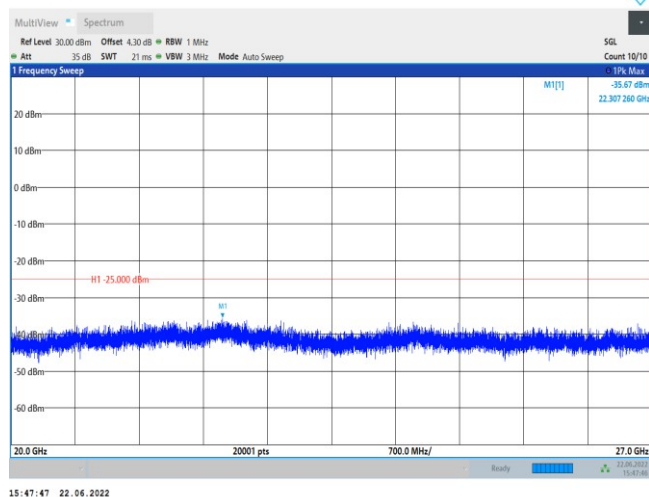
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Band41-20MHz-QPSK-41490-1RB#0-Range5:20000~27000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band 41_ 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	4994.1800	49.34	-108.03	-58.69	-25.00	33.69	261	179	Horizontal
2	7491.2700	46.60	-101.98	-55.38	-25.00	30.38	273	194	Horizontal
3	9988.3600	42.22	-96.04	-53.82	-25.00	28.82	249	135	Horizontal
4	12485.4500	37.78	-93.14	-55.36	-25.00	30.36	153	256	Horizontal
5	14982.5400	35.72	-90.64	-54.92	-25.00	29.92	175	358	Horizontal
6	17479.6300	39.50	-91.23	-51.73	-25.00	26.73	173	44	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4994.1800	49.32	-108.03	-58.71	-25.00	33.71	291	166	Vertical
2	7491.2700	46.97	-101.98	-55.01	-25.00	30.01	167	344	Vertical
3	9988.3600	43.57	-96.04	-52.47	-25.00	27.47	134	273	Vertical
4	12485.4500	39.16	-93.14	-53.98	-25.00	28.98	183	256	Vertical
5	14982.5400	36.42	-90.64	-54.22	-25.00	29.22	234	360	Vertical
6	17479.6300	39.29	-91.23	-51.94	-25.00	26.94	291	90	Vertical



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Test Band = LTE Band 41_ 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	4472.25	53.44	-109.42	-55.98	-25.00	30.98	264	344	Horizontal
2	5168.1800	50.79	-107.60	-56.81	-25.00	31.81	192	358	Horizontal
3	7752.2700	47.85	-101.26	-53.41	-25.00	28.41	234	90	Horizontal
4	10336.3600	42.22	-95.48	-53.26	-25.00	28.26	276	210	Horizontal
5	12920.4500	39.16	-92.67	-53.51	-25.00	28.51	294	225	Horizontal
6	15504.5400	37.30	-92.04	-54.74	-25.00	29.74	137	196	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4990.5	51.59	-108.04	-56.45	-25.00	31.45	267	360	Vertical
2	5168.1800	49.60	-107.60	-58.00	-25.00	33.00	264	88	Vertical
3	7752.2700	47.51	-101.26	-53.75	-25.00	28.75	273	314	Vertical
4	10336.3600	44.30	-95.48	-51.18	-25.00	26.18	291	134	Vertical
5	12920.4500	39.37	-92.67	-53.30	-25.00	28.30	167	240	Vertical
6	15504.5400	37.07	-92.04	-54.97	-25.00	29.97	134	103	Vertical



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Test Band = LTE Band 41_ 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	4870.5	52.05	-108.28	-56.23	-25.00	31.23	164	254	Horizontal
2	5342.1800	48.07	-107.58	-59.51	-25.00	34.51	134	121	Horizontal
3	8013.2700	46.15	-100.46	-54.31	-25.00	29.31	152	359	Horizontal
4	10684.3600	44.91	-94.10	-49.19	-25.00	24.19	193	270	Horizontal
5	13355.4500	39.80	-91.72	-51.92	-25.00	26.92	246	242	Horizontal
6	16026.5400	38.91	-92.29	-53.38	-25.00	28.38	273	256	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3978	53.21	-110.60	-57.39	-25.00	32.39	134	44	Vertical
2	5342.1800	48.93	-107.58	-58.65	-25.00	33.65	261	359	Vertical
3	8013.2700	47.89	-100.46	-52.57	-25.00	27.57	164	330	Vertical
4	10684.3600	48.51	-94.10	-45.59	-25.00	20.59	137	270	Vertical
5	13355.4500	38.31	-91.72	-53.41	-25.00	28.41	183	344	Vertical
6	16026.5400	38.43	-92.29	-53.86	-25.00	28.86	267	104	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
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	-6.70	-0.002584	PASS
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	-6.80	-0.002622	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	-8.30	-0.003201	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	NV	-30	-8.10	-0.003124	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	-6.10	-0.002352	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-10	-0.30	-0.000116	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	-9.40	-0.003625	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	-2.40	-0.000926	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	-10.50	-0.004049	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	-1.30	-0.000501	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	-3.60	-0.001388	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	-3.90	-0.001504	PASS

The End



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