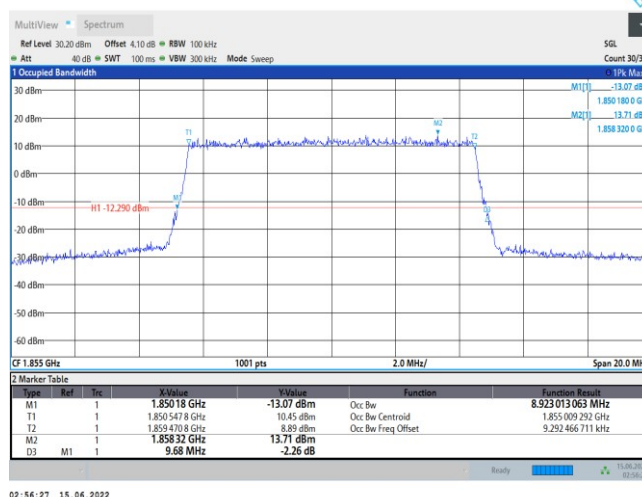


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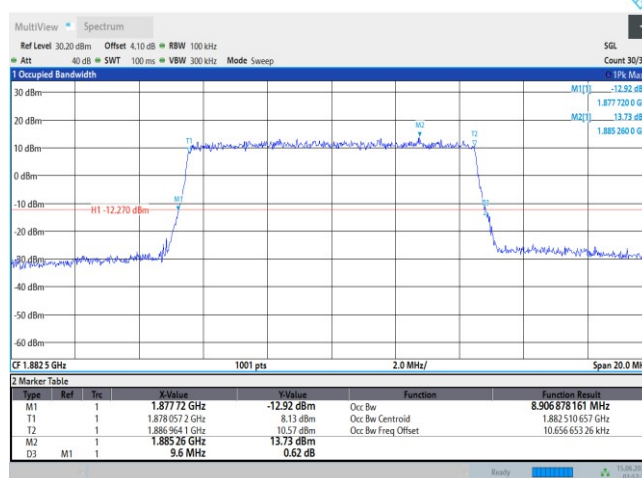
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Band25-10MHz-16QAM-26090-50RB#0



02:56:27 15.06.2022

Band25-10MHz-16QAM-26365-50RB#0



02:57:15 15.06.2022



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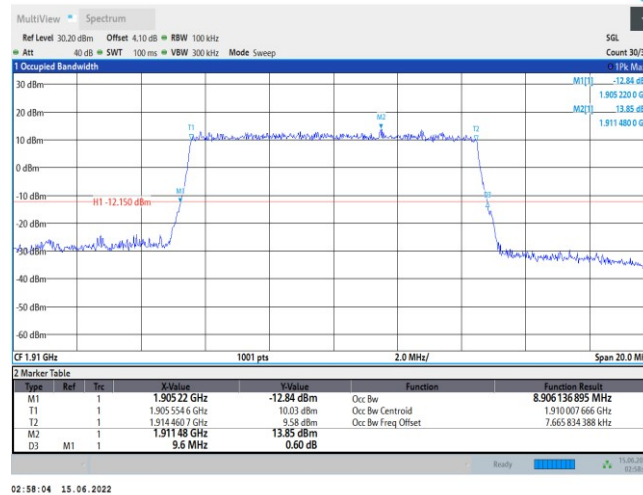
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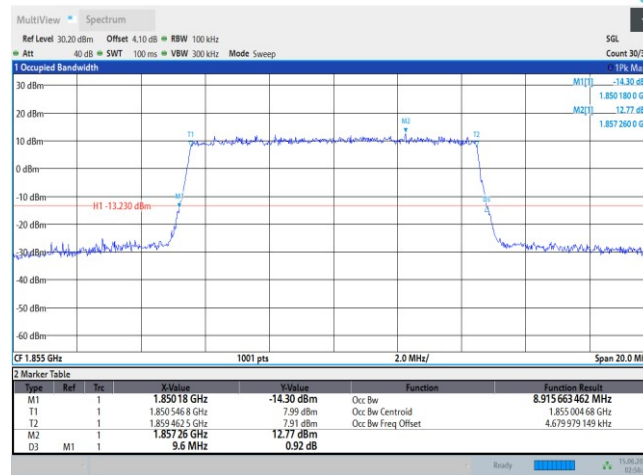
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Band25-10MHz-16QAM-26640-50RB#0



02:58:04 15.06.2022

Band25-10MHz-64QAM-26090-50RB#0



02:56:43 15.06.2022



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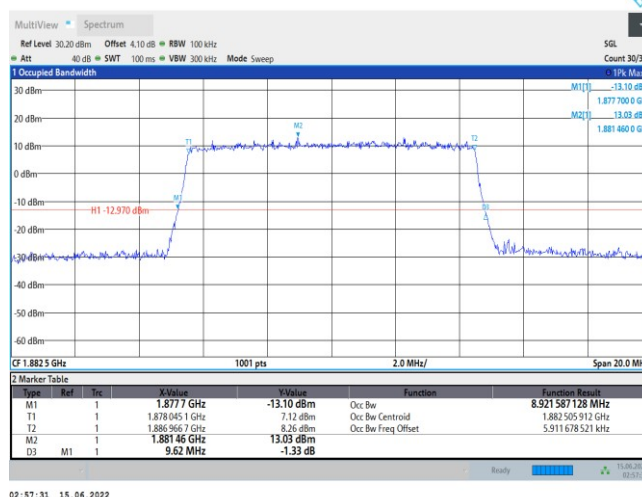
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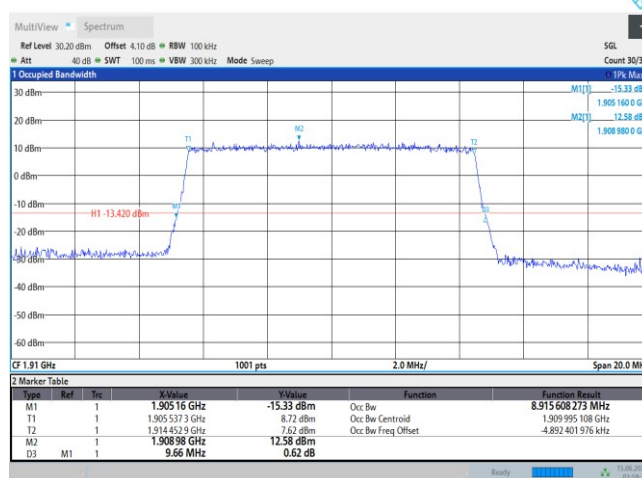
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02:57:31 15.06.2022

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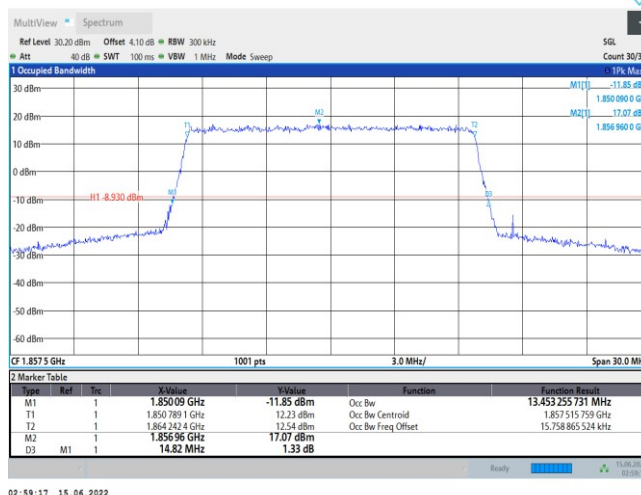
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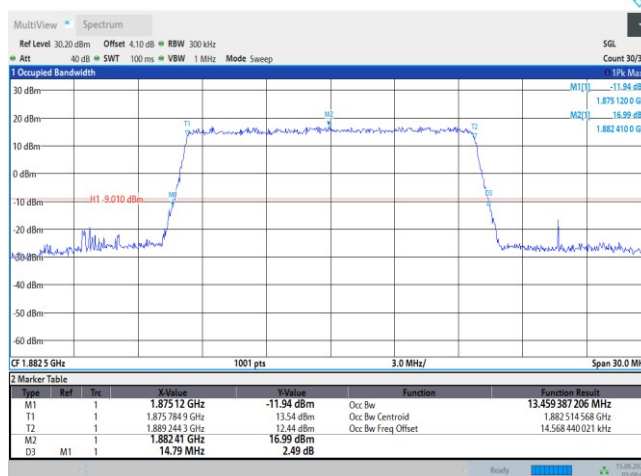
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Band25-15MHz-QPSK-26115-75RB#0



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Band25-15MHz-QPSK-26365-75RB#0



03:00:06 15.06.2022



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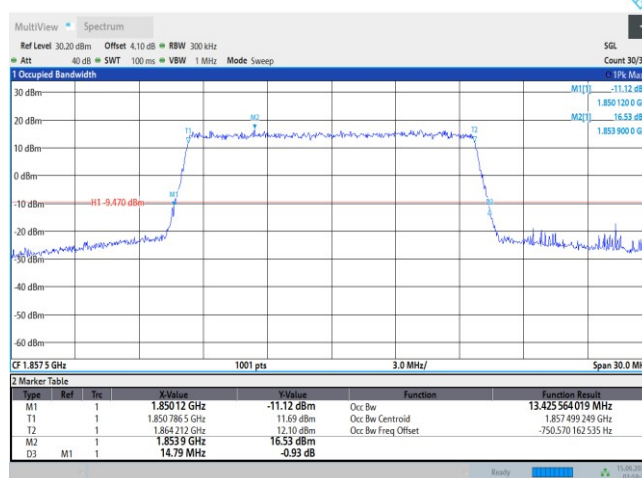
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Band25-15MHz-QPSK-26615-75RB#0



03:00:54 15.06.2022

Band25-15MHz-16QAM-26115-75RB#0



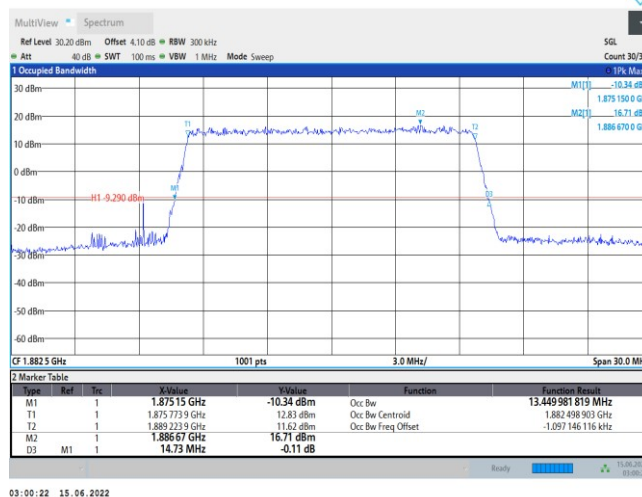
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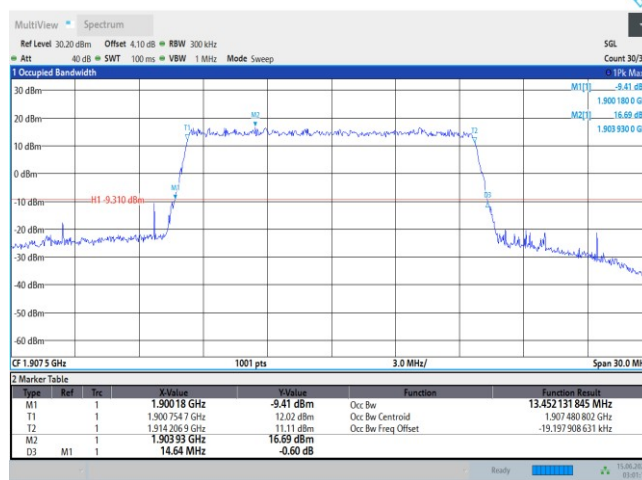
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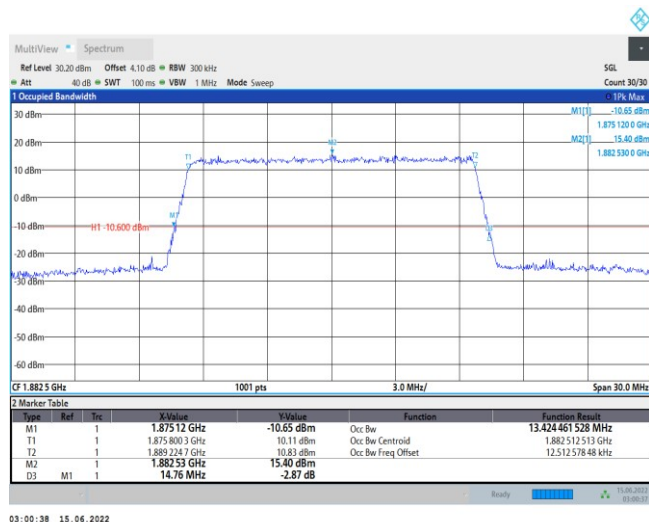


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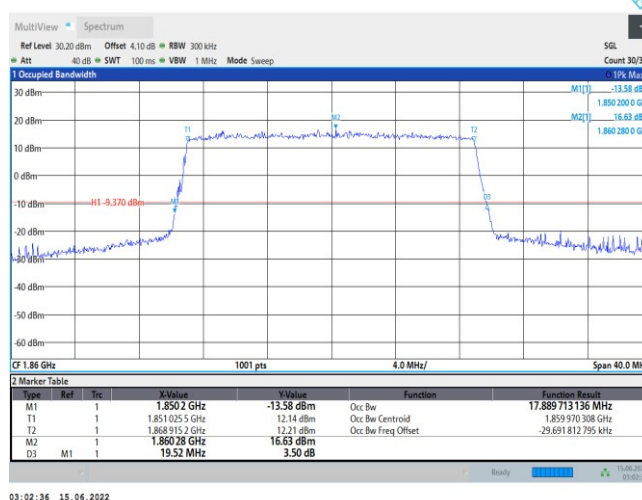
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Band25-20MHz-QPSK-26140-100RB#0

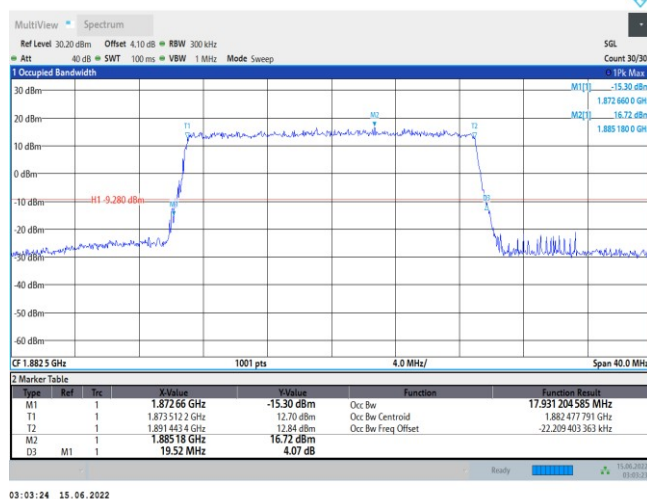


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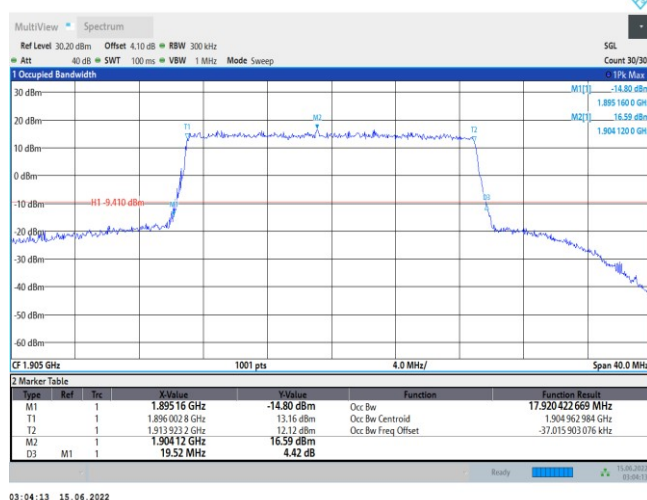
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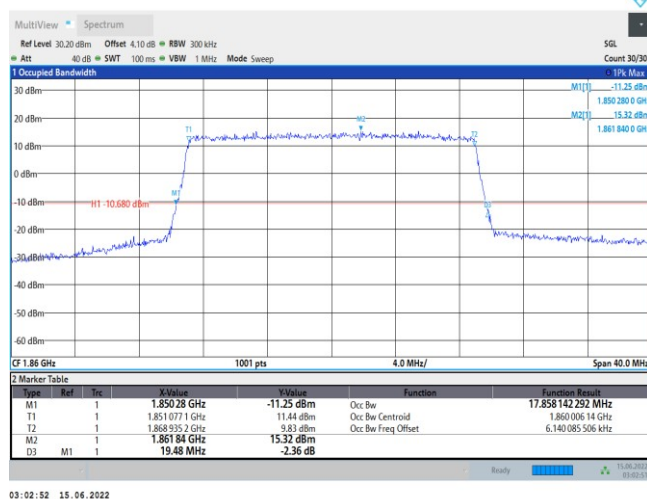
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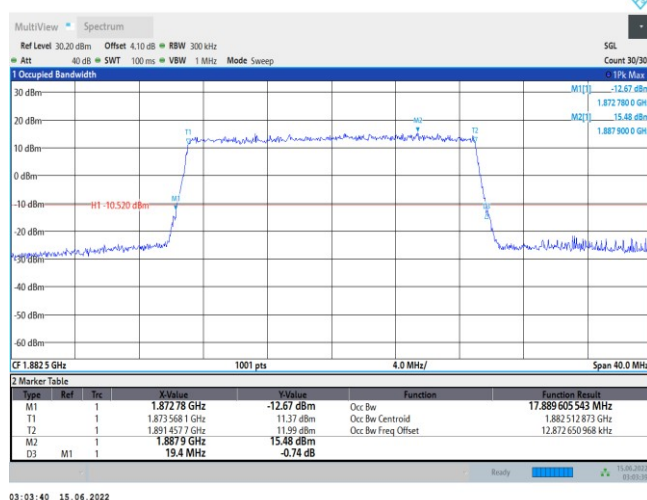
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Band25-20MHz-16QAM-26140-100RB#0



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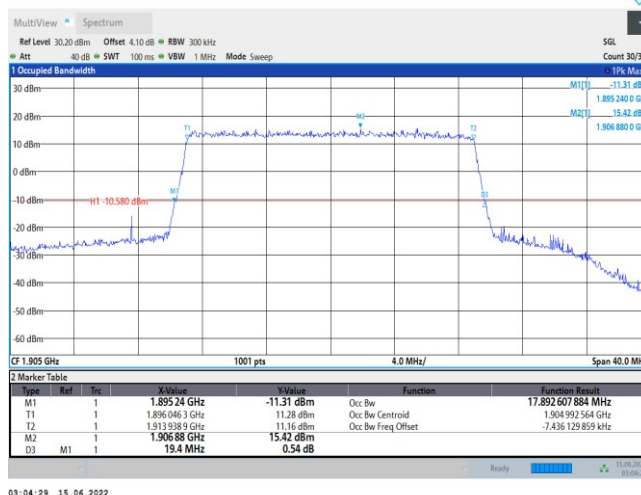
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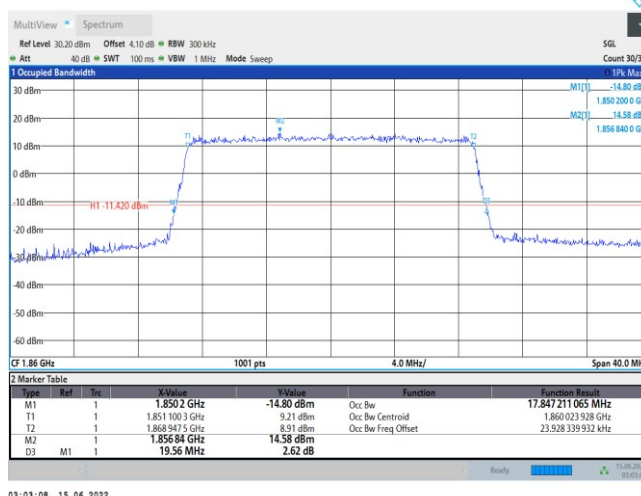
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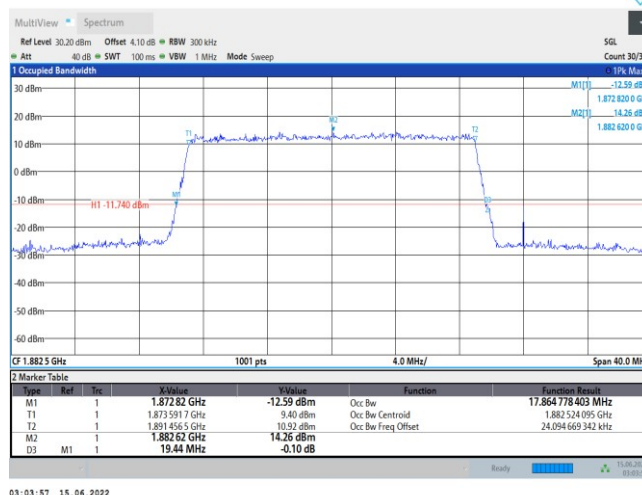
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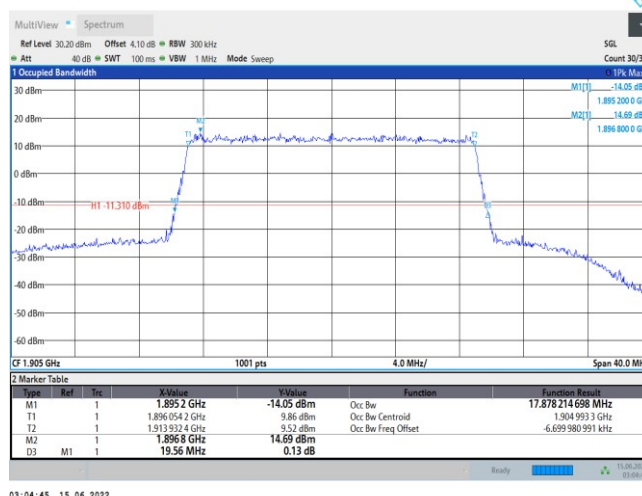
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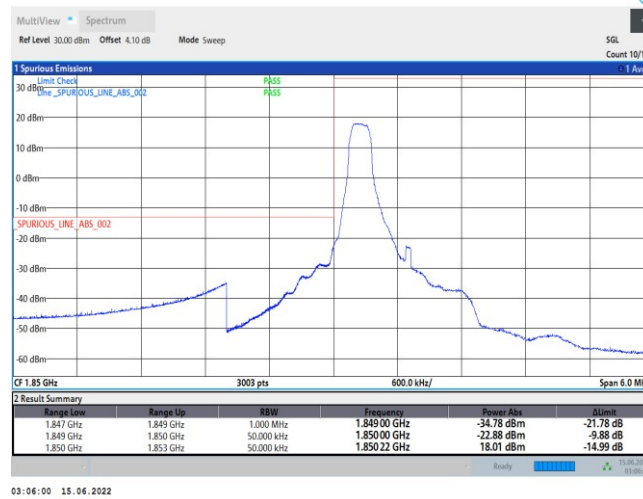
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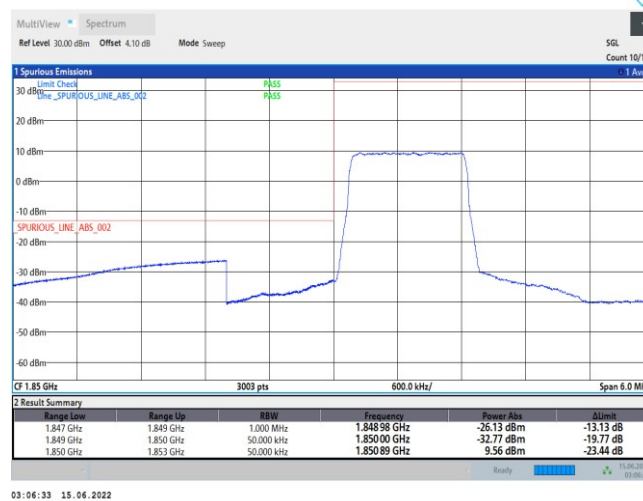
Band Edge

Test Graphs

Band25-1.4MHz-QPSK-26047-1RB#0



Band25-1.4MHz-QPSK-26047-6RB#0



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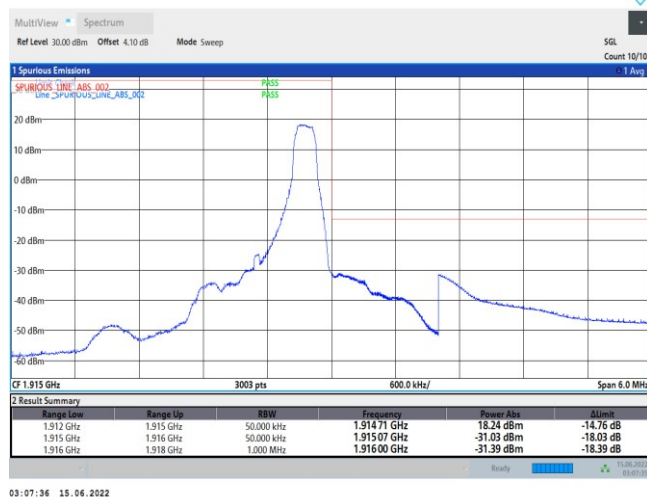
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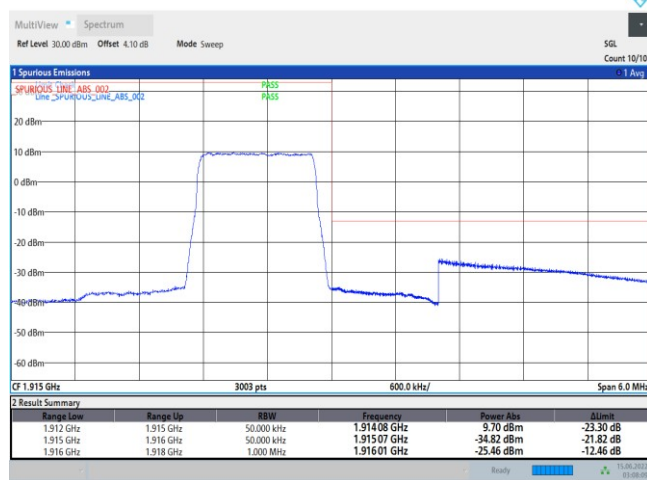
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Band25-1.4MHz-QPSK-26683-6RB#0



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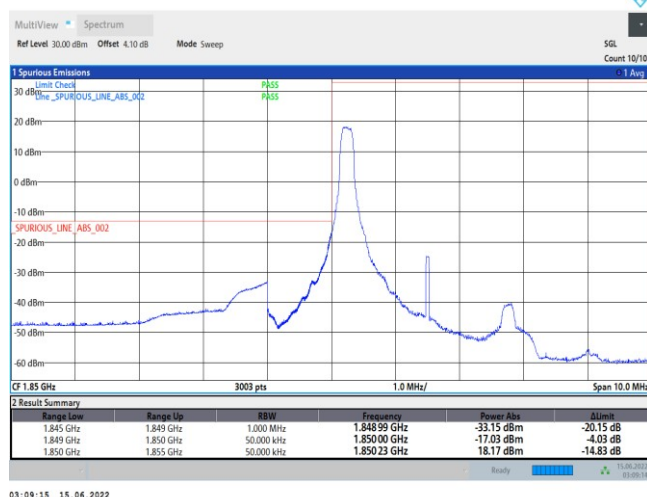
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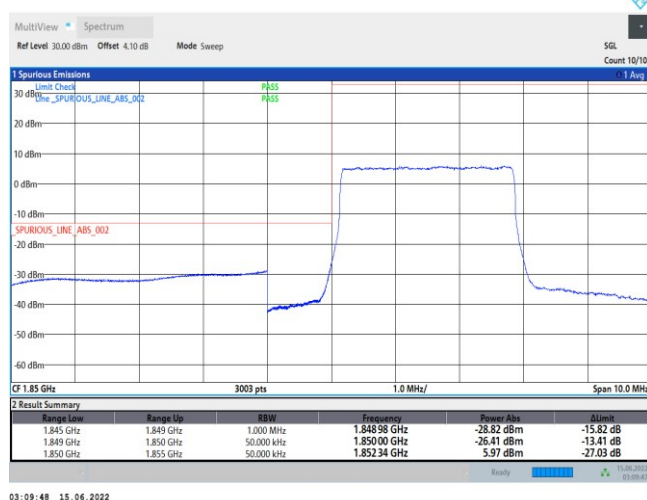
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Band25-3MHz-QPSK-26055-1RB#0



Band25-3MHz-QPSK-26055-15RB#0



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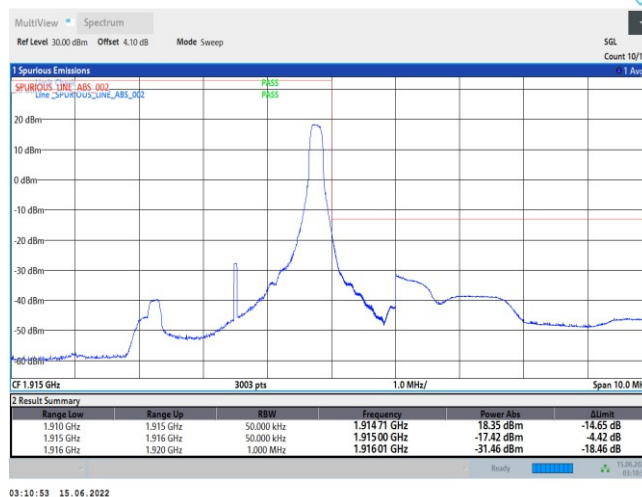
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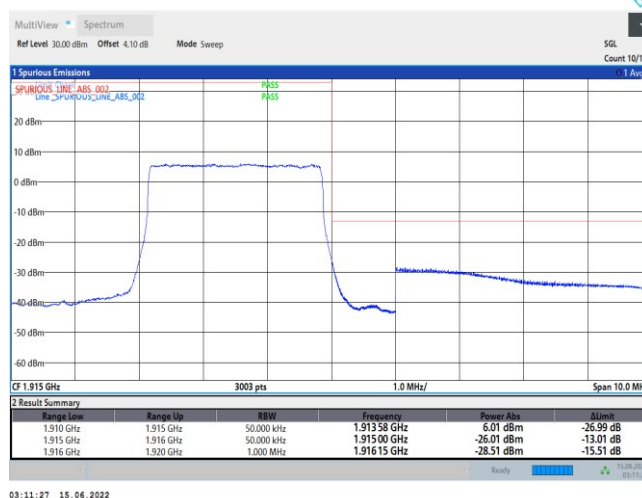
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Band25-3MHz-QPSK-26675-1RB#14



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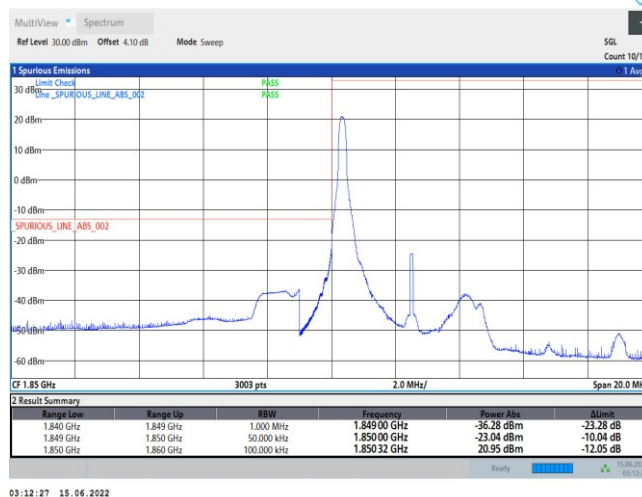
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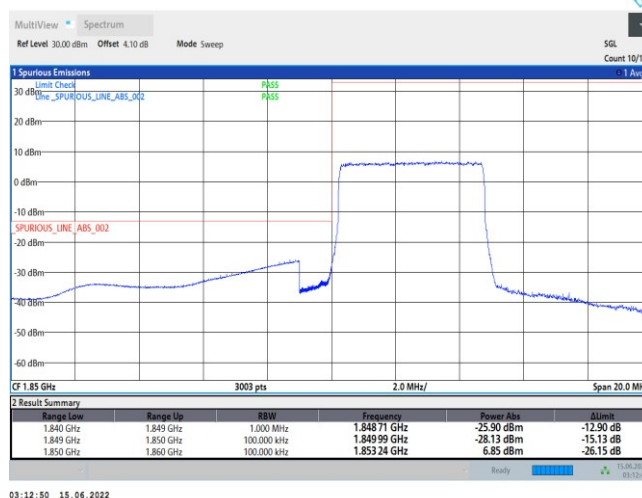
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Band25-5MHz-QPSK-26065-1RB#0



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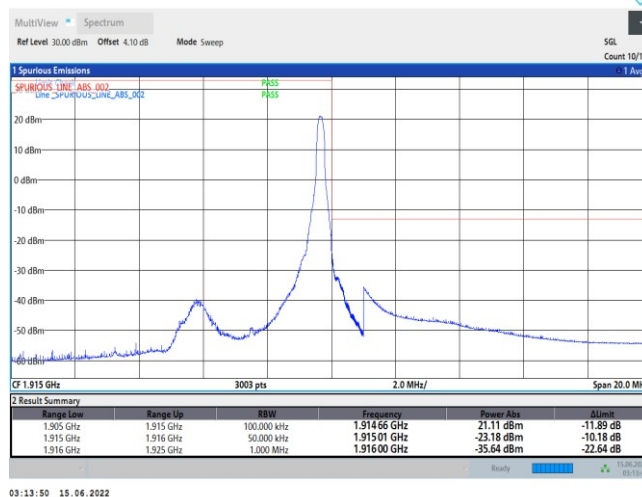
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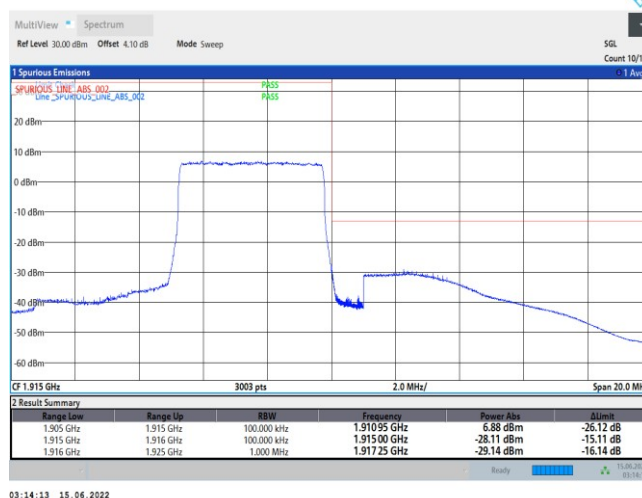
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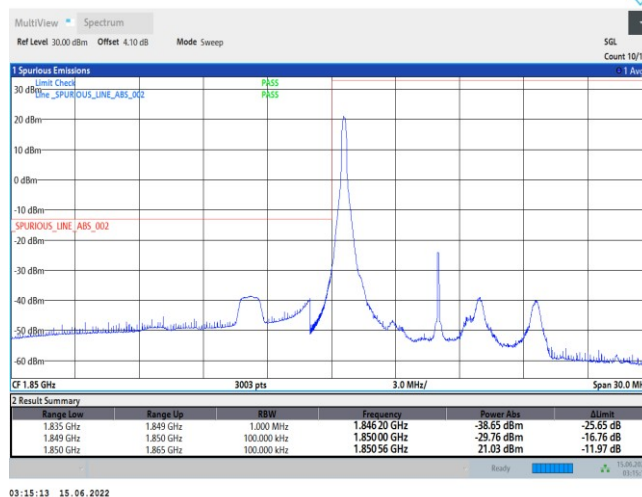
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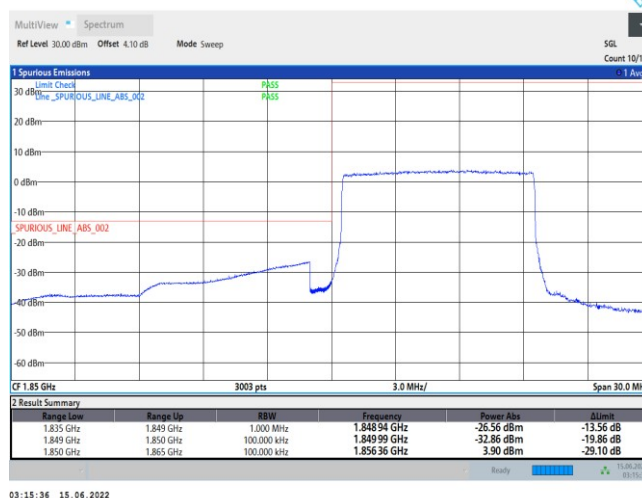
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Band25-10MHz-QPSK-26090-1RB#0



Band25-10MHz-QPSK-26090-50RB#0



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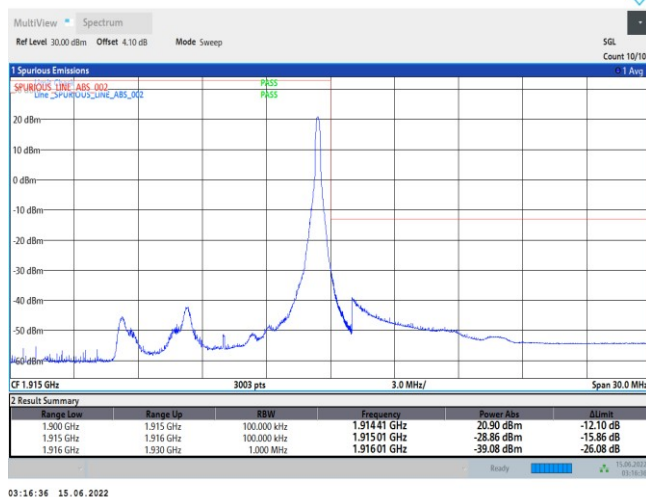
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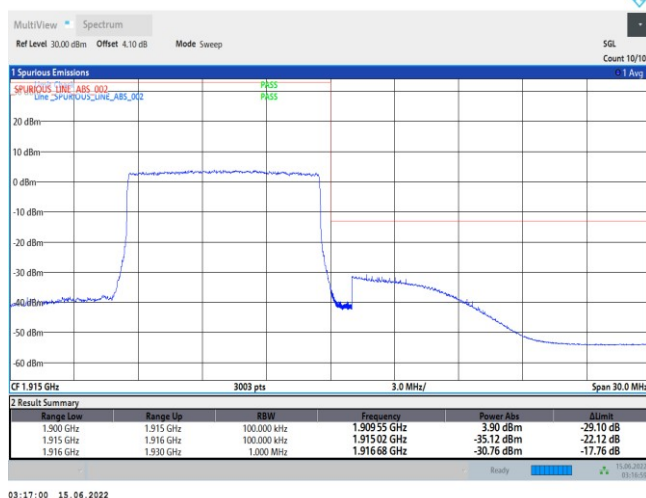
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Band25-10MHz-QPSK-26640-50RB#0



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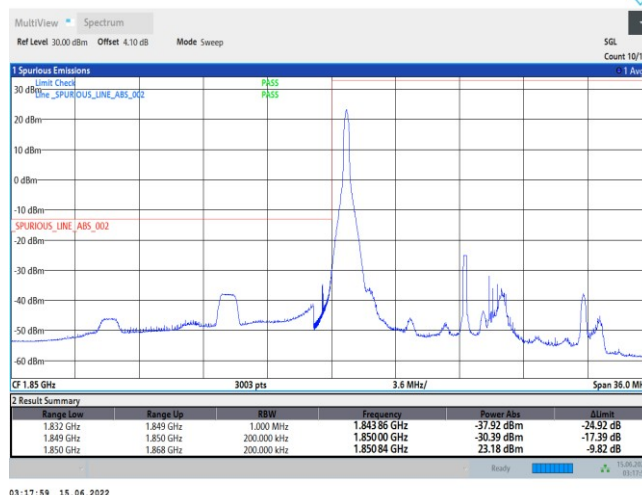
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Band25-15MHz-QPSK-26115-1RB#0



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Band25-15MHz-QPSK-26115-75RB#0



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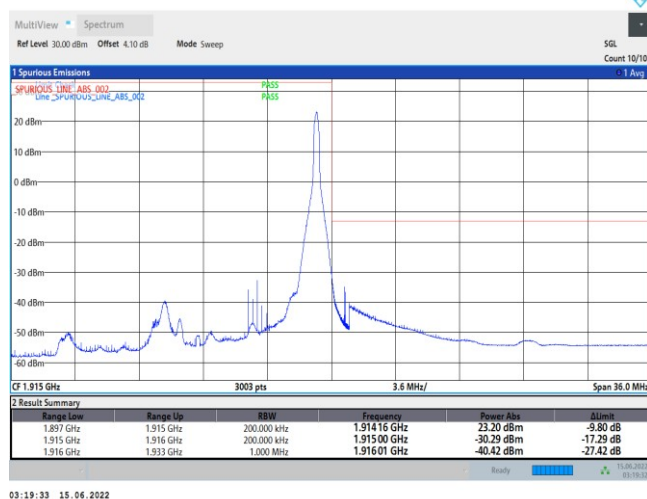
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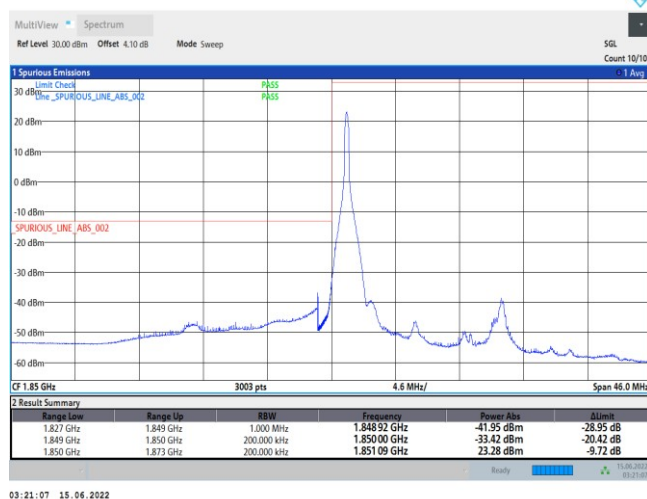
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Band25-20MHz-QPSK-26140-1RB#0



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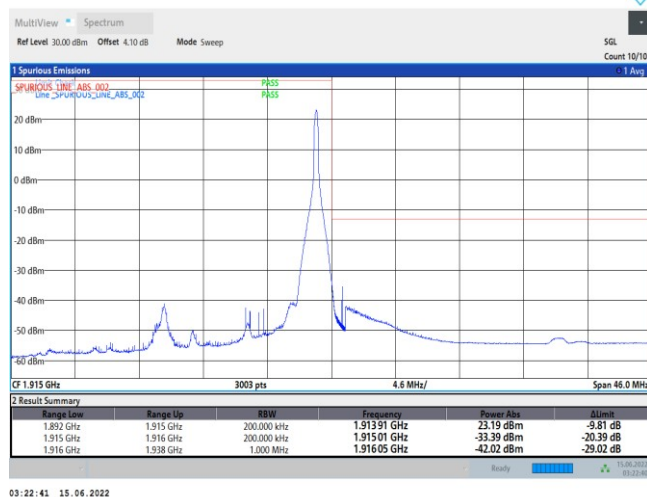
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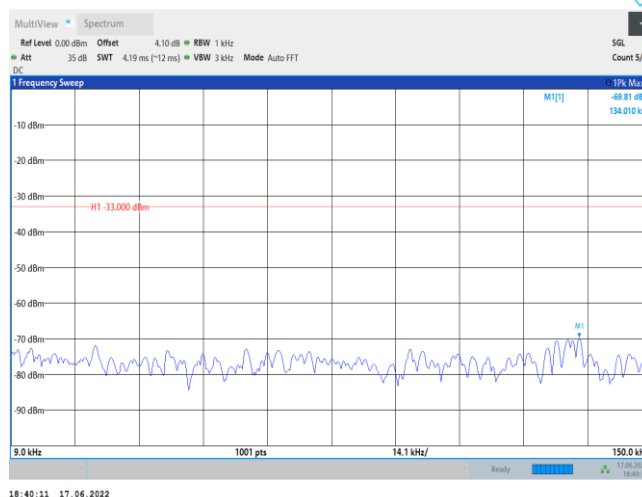
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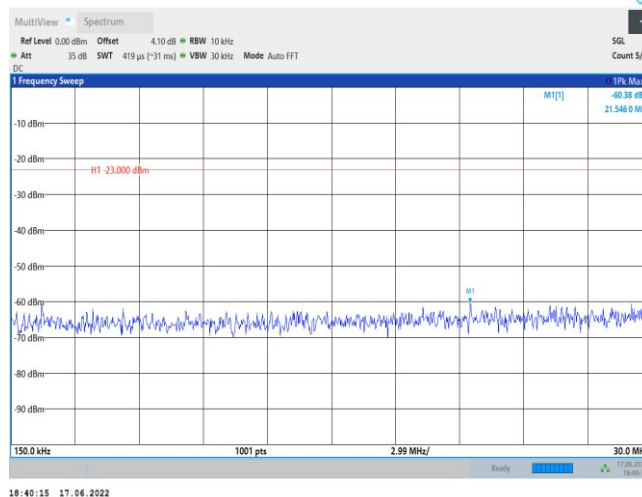
Conducted Spurious Emission

Test Graphs

Band25-20MHz-QPSK-26140-1RB#0-Range1:0.009~0.15MHz



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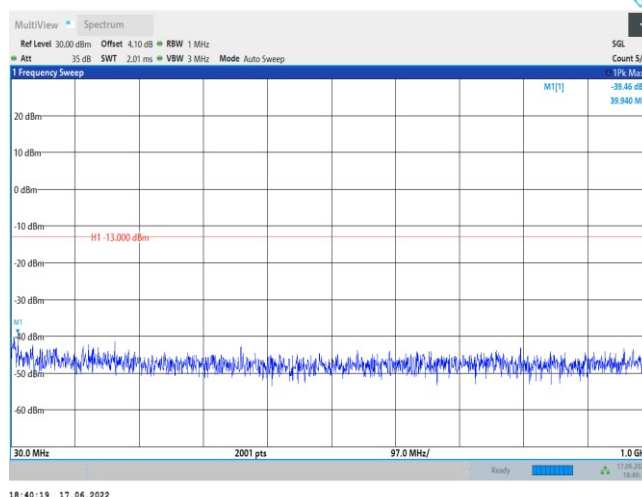
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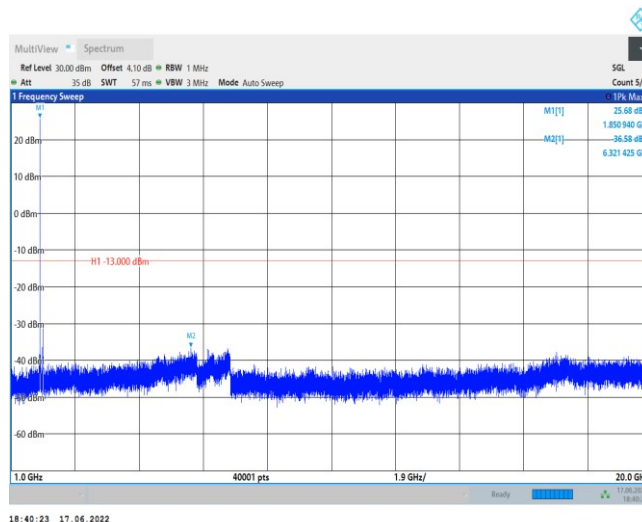
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Band25-20MHz-QPSK-26140-1RB#0-Range4:1000~20000MHz



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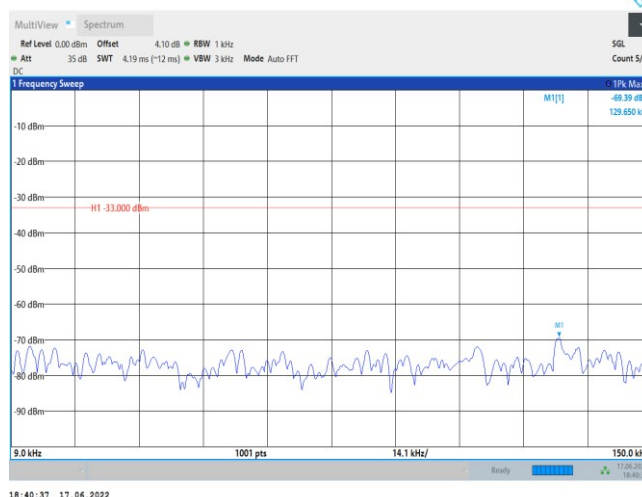
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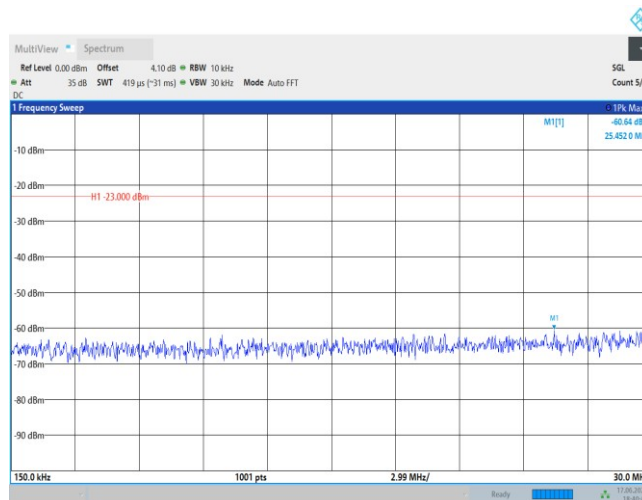
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Band25-20MHz-QPSK-26365-1RB#0-Range1:0.009~0.15MHz



18:40:37 17.06.2022

Band25-20MHz-QPSK-26365-1RB#0-Range2:0.15~30MHz



18:40:41 17.06.2022



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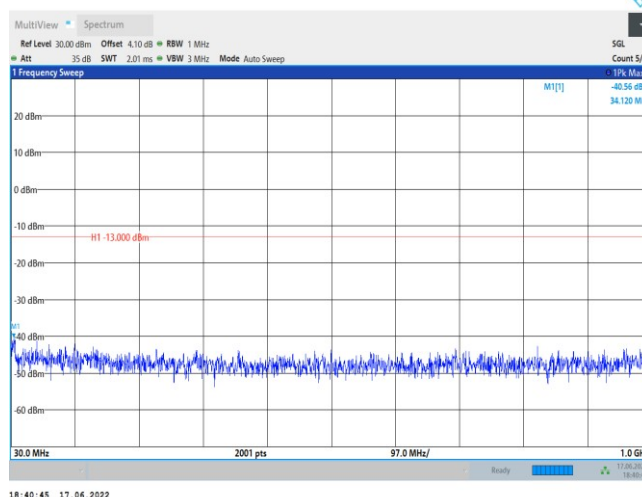
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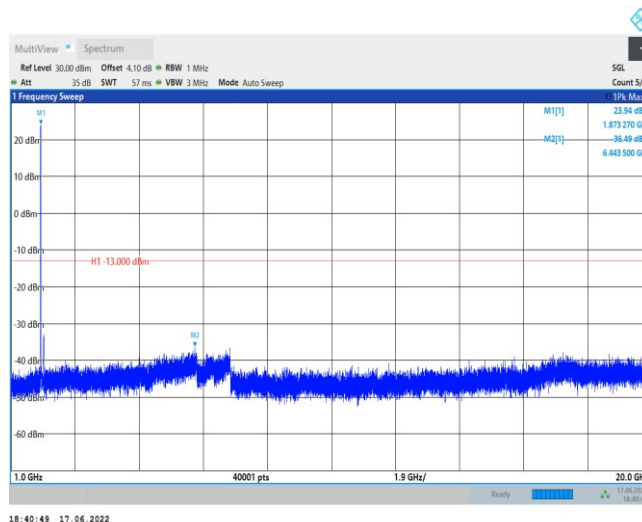
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Band25-20MHz-QPSK-26365-1RB#0-Range3:30~1000MHz



Band25-20MHz-QPSK-26365-1RB#0-Range4:1000~20000MHz



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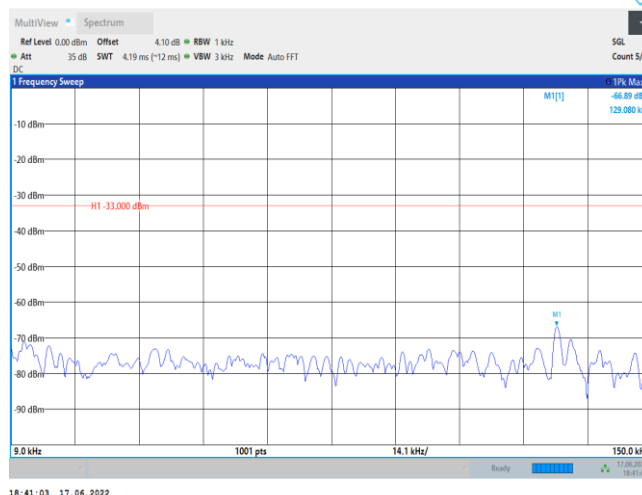
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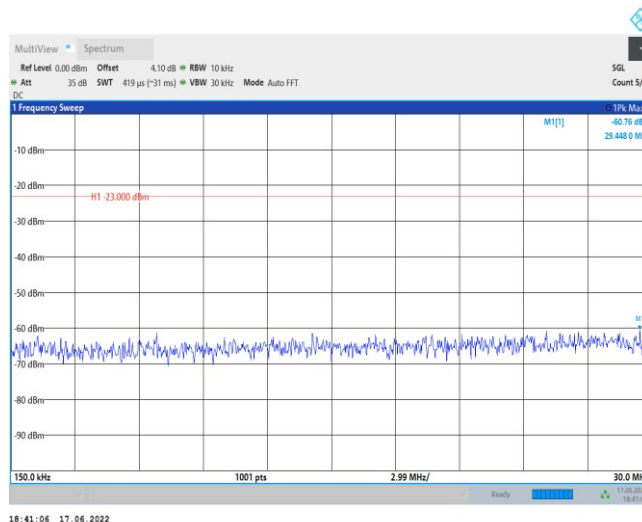
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Band25-20MHz-QPSK-26590-1RB#0-Range1:0.009~0.15MHz



Band25-20MHz-QPSK-26590-1RB#0-Range2:0.15~30MHz



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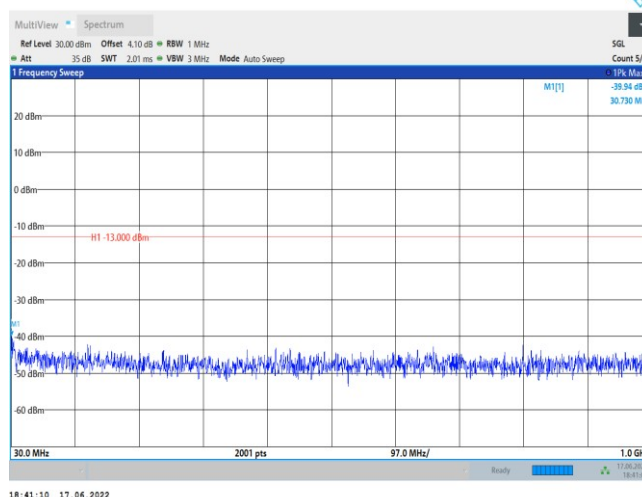
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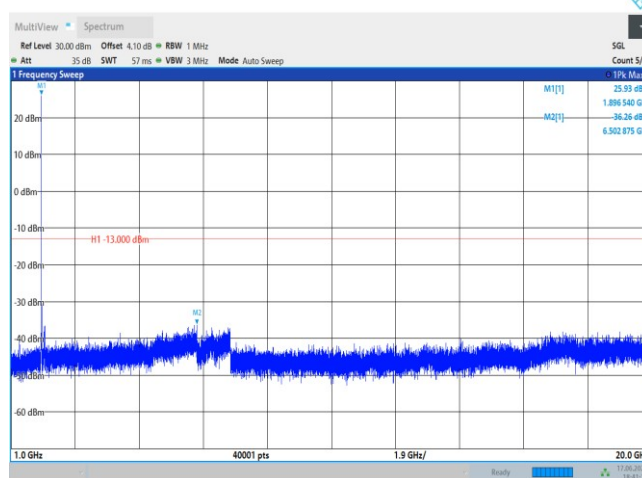
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Band25-20MHz-QPSK-26590-1RB#0-Range3:30~1000MHz



18:41:10 17.06.2022

Band25-20MHz-QPSK-26590-1RB#0-Range4:1000~20000MHz



18:41:15 17.06.2022



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Field Strength of Spurious Radiation

Test Band = LTE Band 25_ 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	3702.1800	49.66	-110.79	-61.13	-13.00	48.13	134	300	Horizontal
2	5553.2700	47.82	-107.44	-59.62	-13.00	46.62	167	165	Horizontal
3	7404.3600	46.08	-102.17	-56.09	-13.00	43.09	182	242	Horizontal
4	9255.4500	39.70	-97.11	-57.41	-13.00	44.41	193	182	Horizontal
5	11106.5400	36.53	-94.10	-57.57	-13.00	44.57	234	74	Horizontal
6	12957.6300	33.29	-92.71	-59.42	-13.00	46.42	276	256	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3702	52.53	-110.79	-58.26	-13.00	45.26	237	286	Vertical
2	5553.2700	48.72	-107.44	-58.72	-13.00	45.72	249	302	Vertical
3	7404.3600	48.33	-102.17	-53.84	-13.00	40.84	137	357	Vertical
4	9255.4500	42.33	-97.11	-54.78	-13.00	41.78	162	359	Vertical
5	11106	42.93	-94.10	-51.17	-13.00	38.17	175	88	Vertical
6	12957.6300	35.05	-92.71	-57.66	-13.00	44.66	173	166	Vertical



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Test Band = LTE Band 25_ 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	3742.1800	50.94	-110.82	-59.88	-13.00	46.88	125	360	Horizontal
2	5613.2700	48.42	-107.23	-58.81	-13.00	45.81	164	352	Horizontal
3	7484.3600	47.19	-101.99	-54.80	-13.00	41.80	198	360	Horizontal
4	9355.4500	41.14	-96.81	-55.67	-13.00	42.67	175	300	Horizontal
5	11226.5400	39.47	-93.55	-54.08	-13.00	41.08	188	135	Horizontal
6	13097.6300	35.40	-92.39	-56.99	-13.00	43.99	230	352	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3742.1800	49.82	-110.82	-61.00	-13.00	48.00	284	108	Vertical
2	5613.2700	48.33	-107.23	-58.90	-13.00	45.90	195	360	Vertical
3	7484.3600	45.86	-101.99	-56.13	-13.00	43.13	177	138	Vertical
4	9355.4500	43.03	-96.81	-53.78	-13.00	40.78	266	360	Vertical
5	11226.5400	45.21	-93.55	-48.34	-13.00	35.34	142	76	Vertical
6	13097.6300	33.26	-92.39	-59.13	-13.00	46.13	102	274	Vertical



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Test Band = LTE Band 25_ 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	3792.1800	49.88	-110.85	-60.97	-13.00	47.97	288	210	Horizontal
2	5688.2700	48.34	-106.79	-58.45	-13.00	45.45	274	44	Horizontal
3	7584.3600	47.29	-101.82	-54.53	-13.00	41.53	271	14	Horizontal
4	9480.4500	42.70	-96.94	-54.24	-13.00	41.24	177	287	Horizontal
5	11376.5400	38.62	-93.53	-54.91	-13.00	41.91	165	256	Horizontal
6	13272.6300	33.56	-92.22	-58.66	-13.00	45.66	174	14	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3792.1800	51.46	-110.85	-59.39	-13.00	46.39	284	87	Vertical
2	5688.2700	48.15	-106.79	-58.64	-13.00	45.64	254	13	Vertical
3	7584.3600	47.25	-101.82	-54.57	-13.00	41.57	147	73	Vertical
4	9480.4500	42.74	-96.94	-54.20	-13.00	41.20	245	135	Vertical
5	11376.5400	42.89	-93.53	-50.64	-13.00	37.64	107	87	Vertical
6	13272.6300	34.14	-92.22	-58.08	-13.00	45.08	180	150	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
Band25	20MHz	QPSK	26365	100RB#0	VL	NT	6.00	0.003187	PASS
Band25	20MHz	QPSK	26365	100RB#0	VN	NT	-9.80	-0.005206	PASS
Band25	20MHz	QPSK	26365	100RB#0	VH	NT	3.60	0.001912	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band25	20MHz	QPSK	26365	100RB#0	NV	-30	4.40	0.002337	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	-20	0.50	0.000266	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	-10	-0.60	-0.000319	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	0	-11.00	-0.005843	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	10	-5.30	-0.002815	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	20	5.40	0.002869	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	30	-3.40	-0.001806	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	40	-3.70	-0.001965	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	50	-8.10	-0.004303	PASS

The End



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