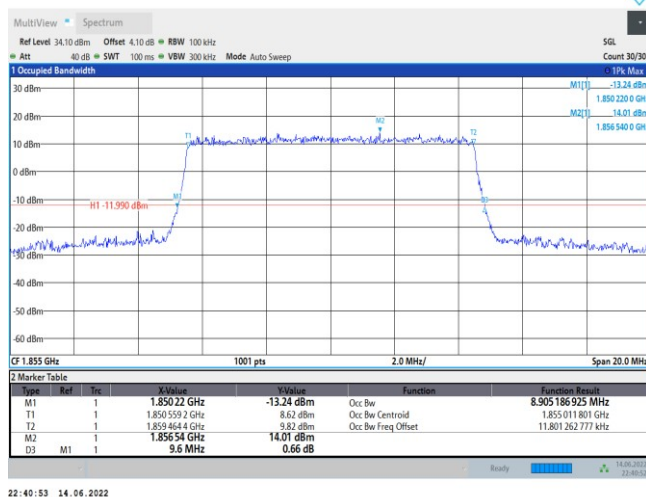


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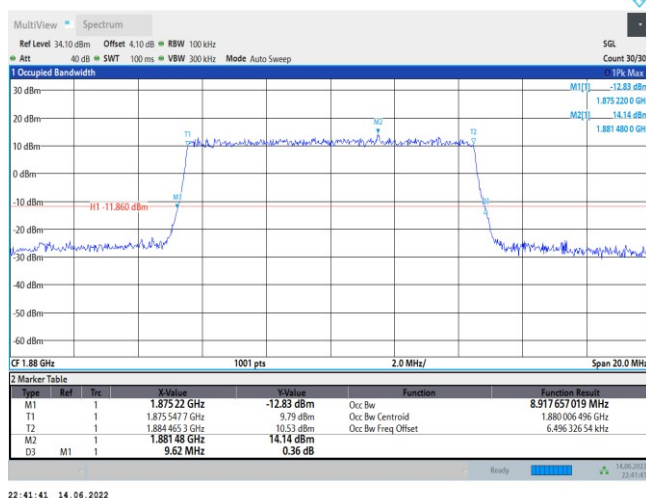
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## Band2-10MHz-16QAM-18650-50RB#0



22:40:53 14.06.2022

## Band2-10MHz-16QAM-18900-50RB#0



22:41:41 14.06.2022



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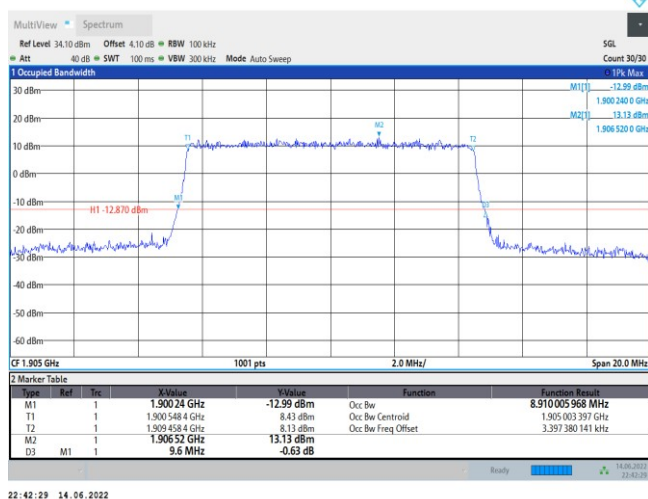
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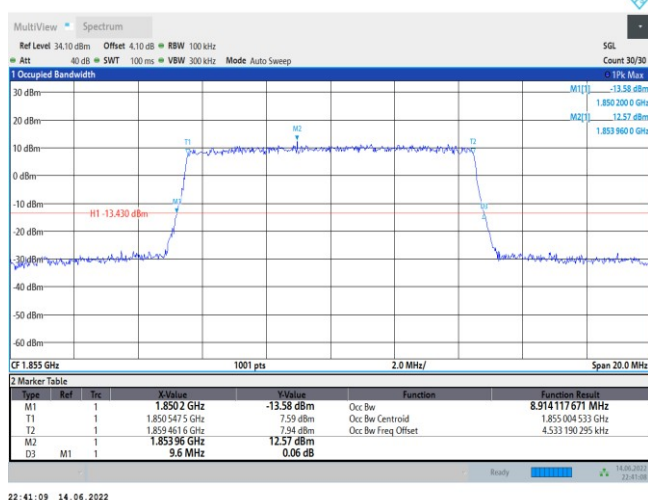
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## Band2-10MHz-16QAM-19150-50RB#0



## Band2-10MHz-64QAM-18650-50RB#0



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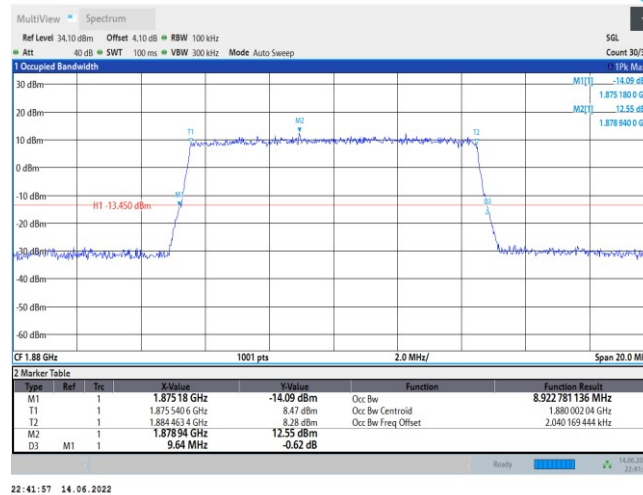
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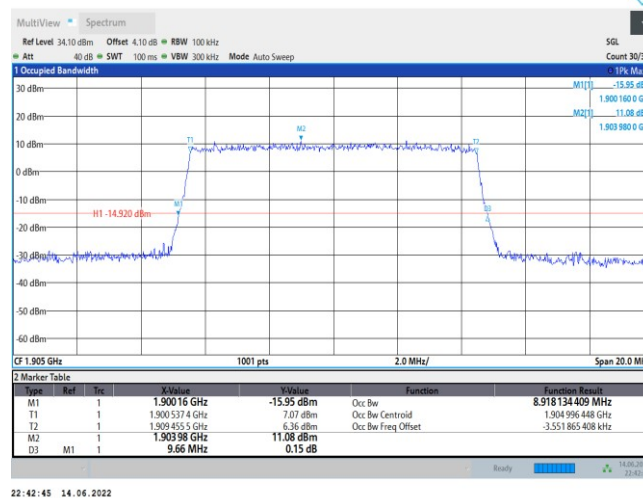
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### Band2-10MHz-64QAM-18900-50RB#0



### Band2-10MHz-64QAM-19150-50RB#0



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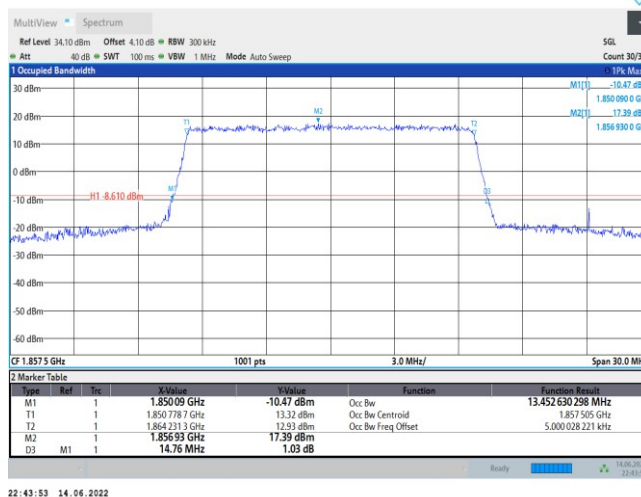
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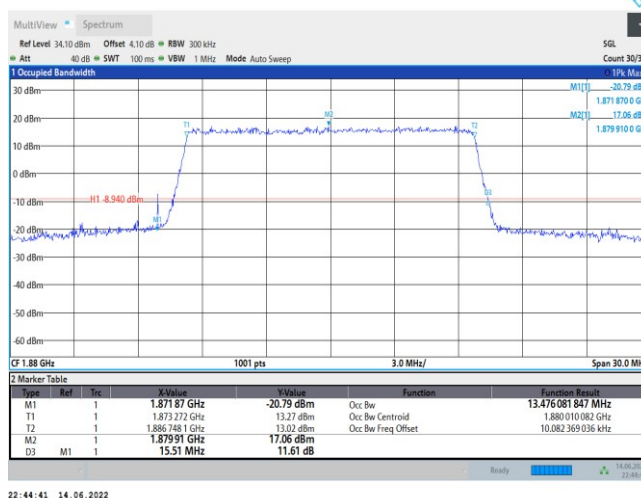
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### Band2-15MHz-QPSK-18675-75RB#0



### Band2-15MHz-QPSK-18900-75RB#0



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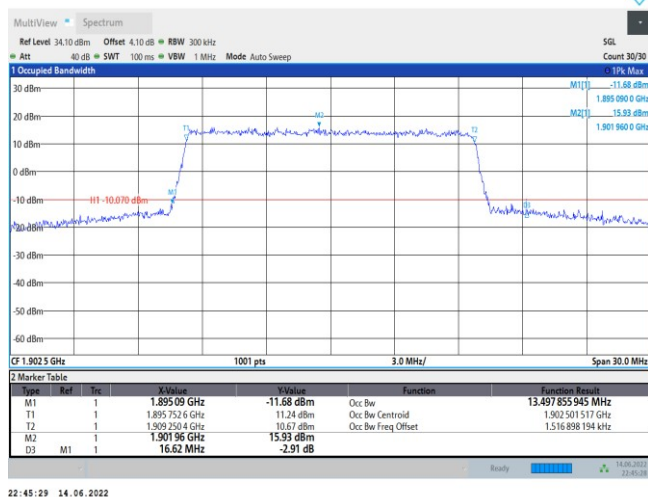
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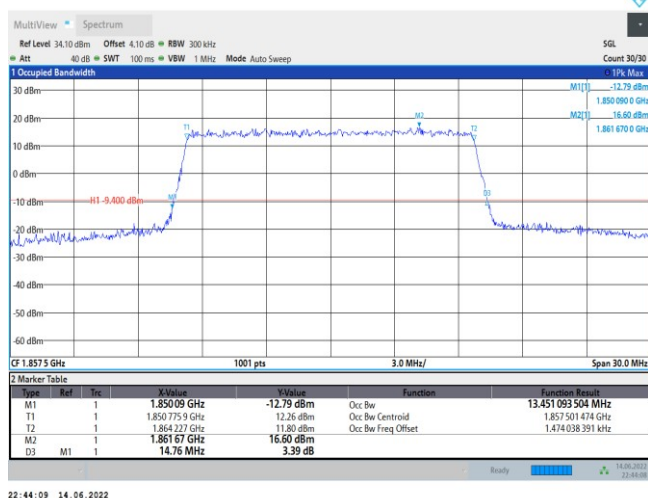
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### Band2-15MHz-QPSK-19125-75RB#0



22:45:29 14.06.2022

### Band2-15MHz-16QAM-18675-75RB#0



22:44:09 14.06.2022



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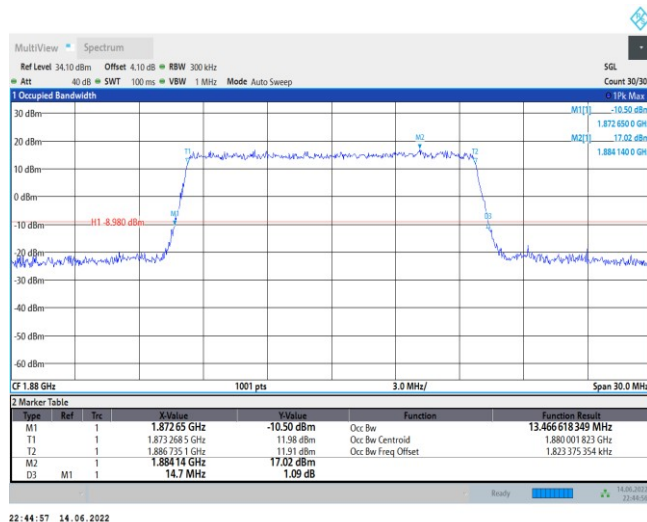
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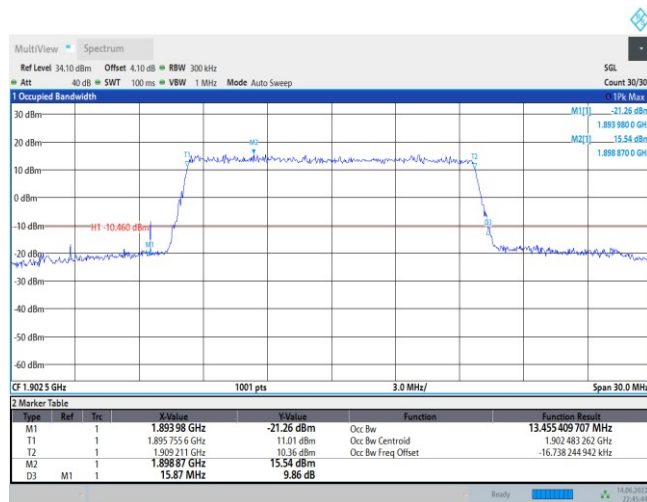
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## Band2-15MHz-16QAM-18900-75RB#0



22:44:57 14.06.2022

## Band2-15MHz-16QAM-19125-75RB#0



22:45:45 14.06.2022



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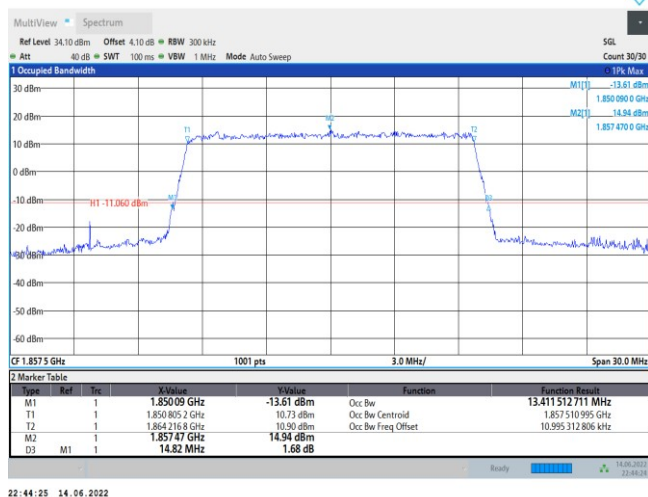
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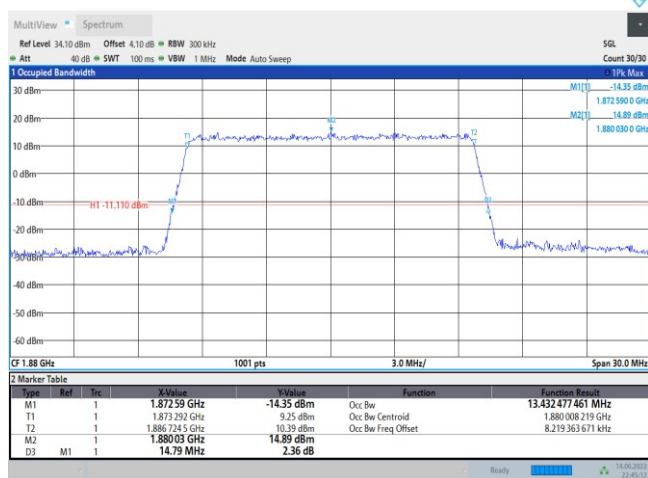
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### Band2-15MHz-64QAM-18675-75RB#0



22:44:25 14.06.2022

### Band2-15MHz-64QAM-18900-75RB#0



22:45:13 14.06.2022



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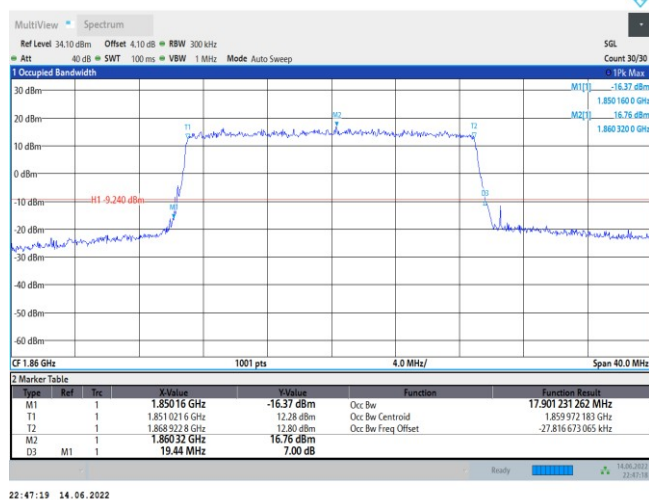
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### Band2-15MHz-64QAM-19125-75RB#0



### Band2-20MHz-QPSK-18700-100RB#0



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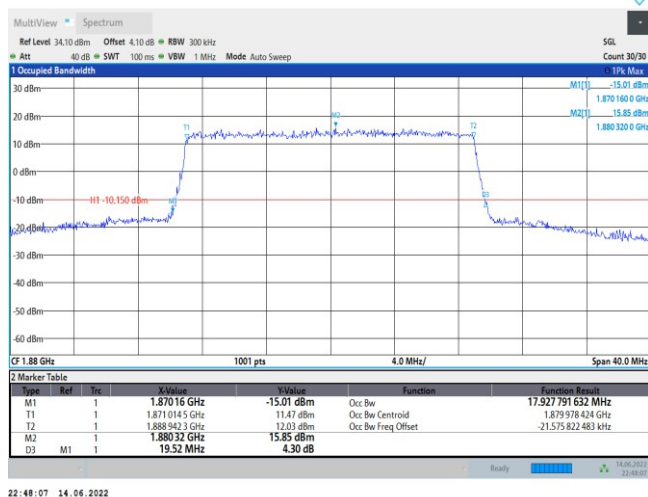
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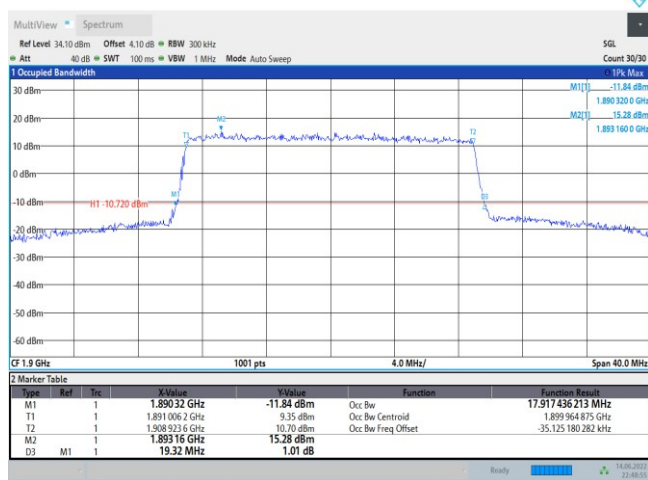
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### Band2-20MHz-QPSK-18900-100RB#0



22:48:07 14.06.2022

### Band2-20MHz-QPSK-19100-100RB#0



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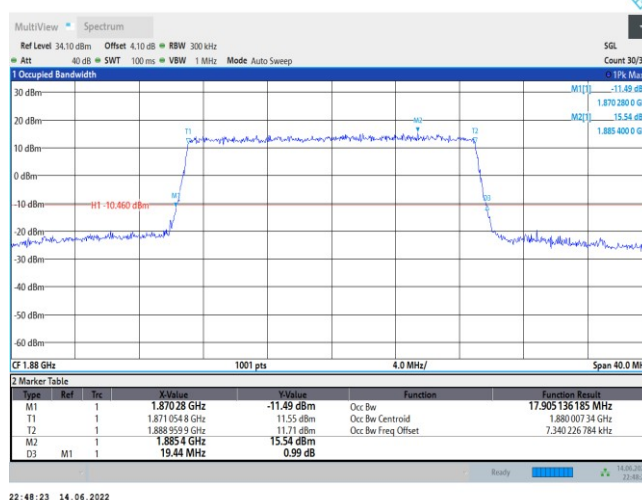
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### Band2-20MHz-16QAM-18700-100RB#0



### Band2-20MHz-16QAM-18900-100RB#0



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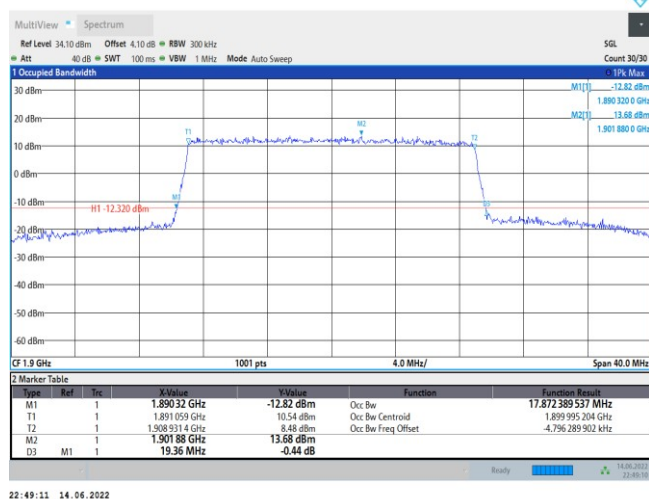
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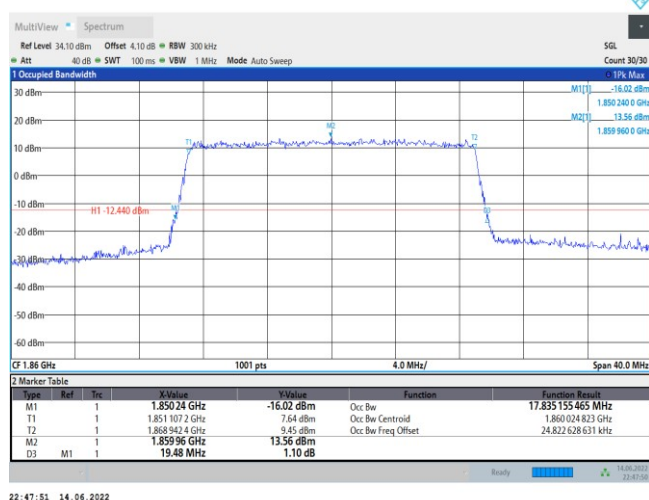
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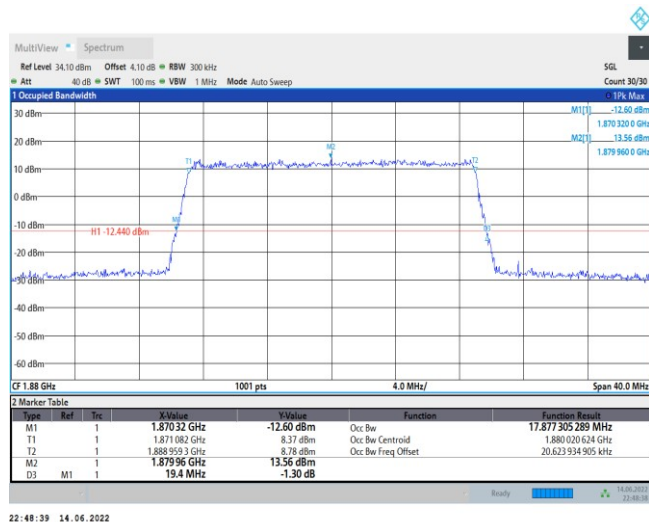
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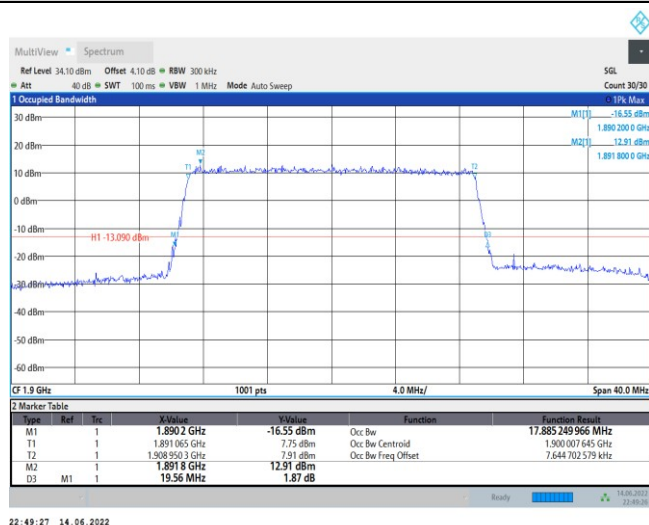
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## Band2-20MHz-64QAM-19100-100RB#0



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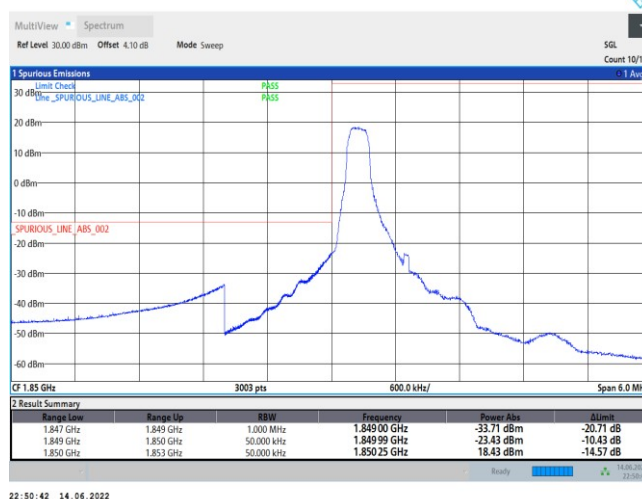
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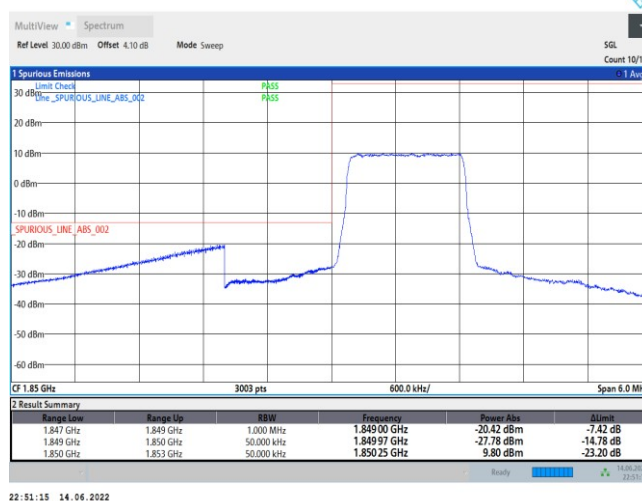
### Band Edge

### Test Graphs

Band2-1.4MHz-QPSK-18607-1RB#0



Band2-1.4MHz-QPSK-18607-6RB#0



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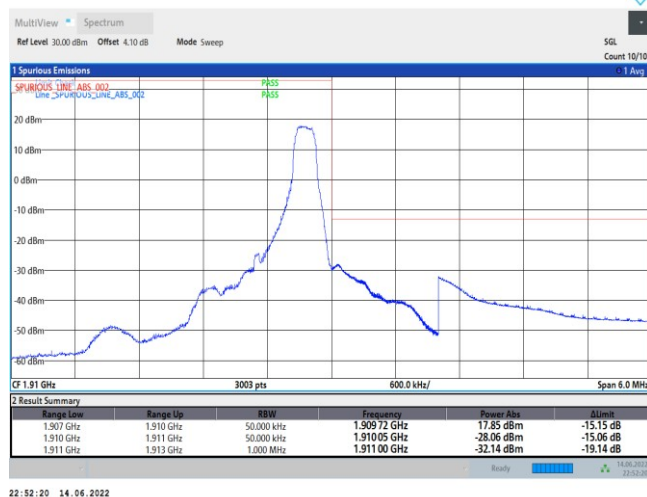
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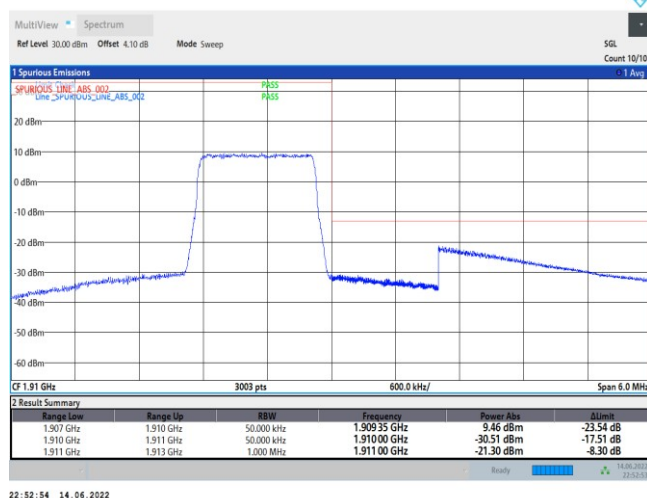
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### Band2-1.4MHz-QPSK-19193-1RB#5



### Band2-1.4MHz-QPSK-19193-6RB#0



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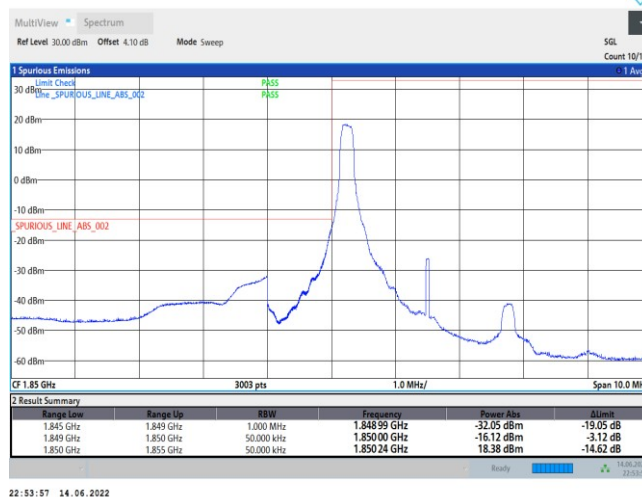
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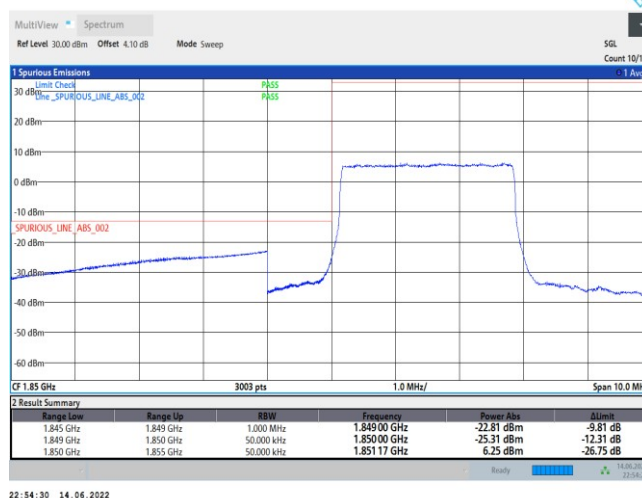
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### Band2-3MHz-QPSK-18615-1RB#0



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### Band2-3MHz-QPSK-18615-15RB#0



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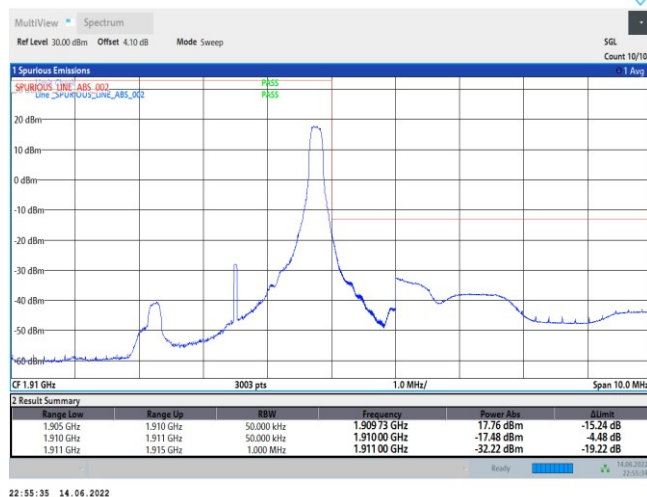
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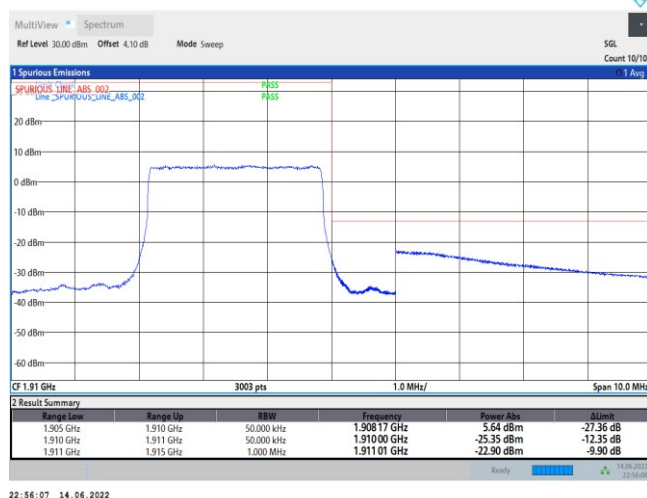
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### Band2-3MHz-QPSK-19185-1RB#14



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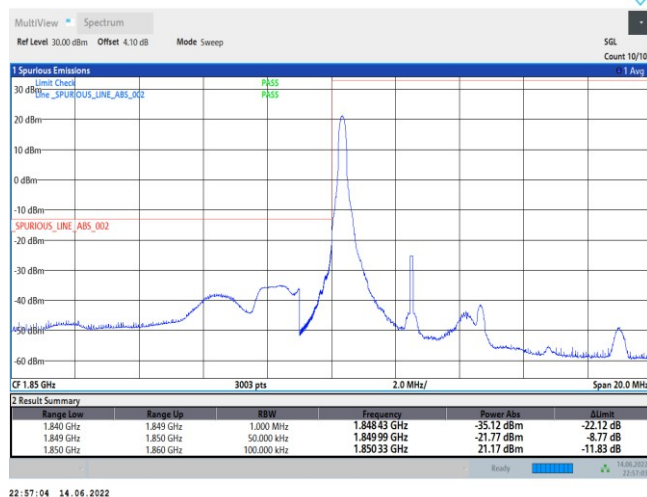
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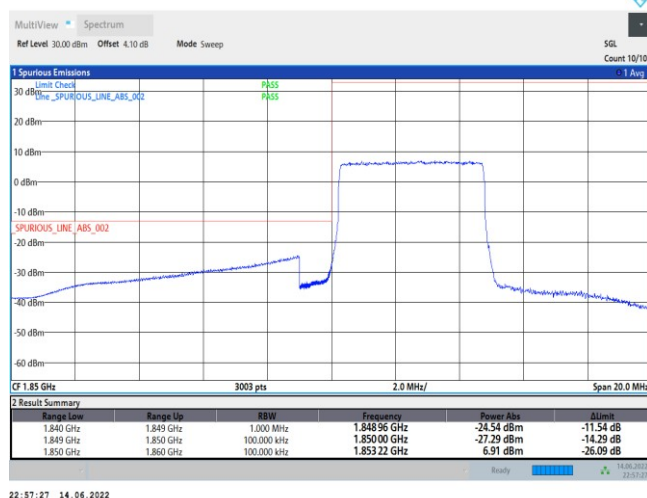
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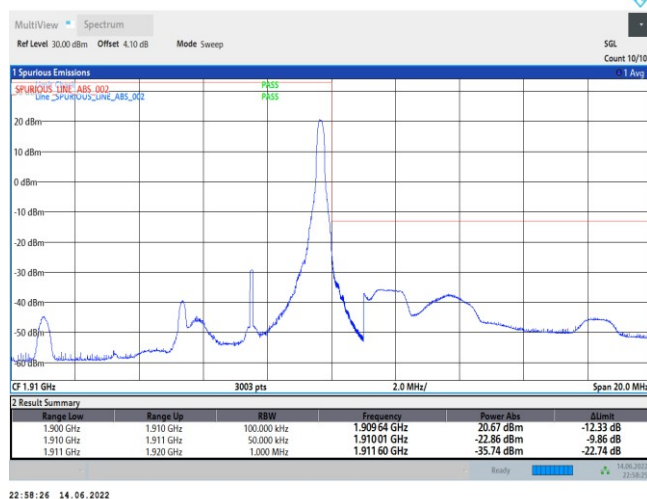
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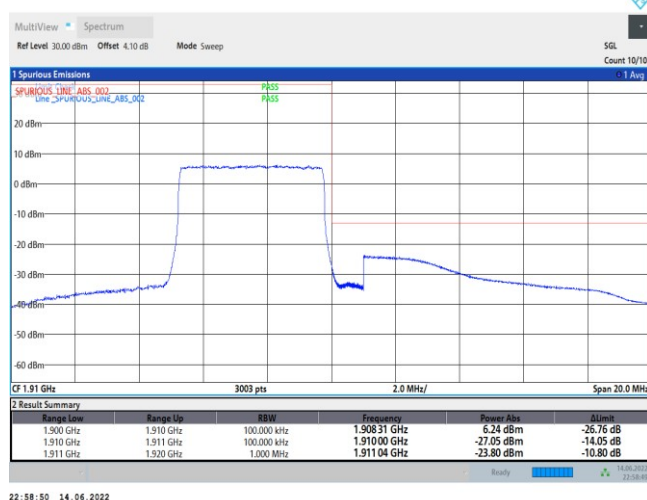
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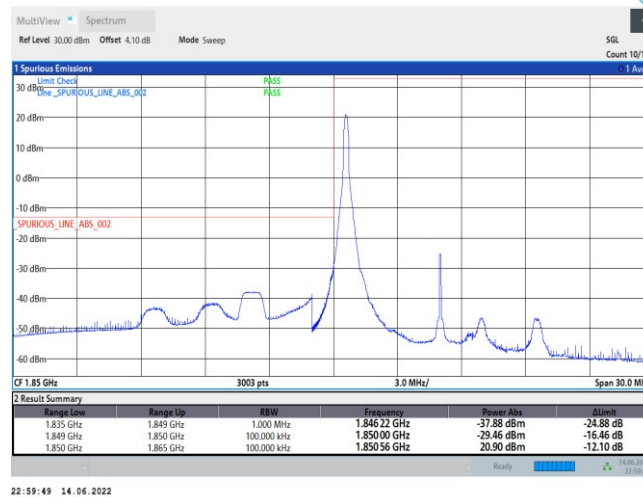
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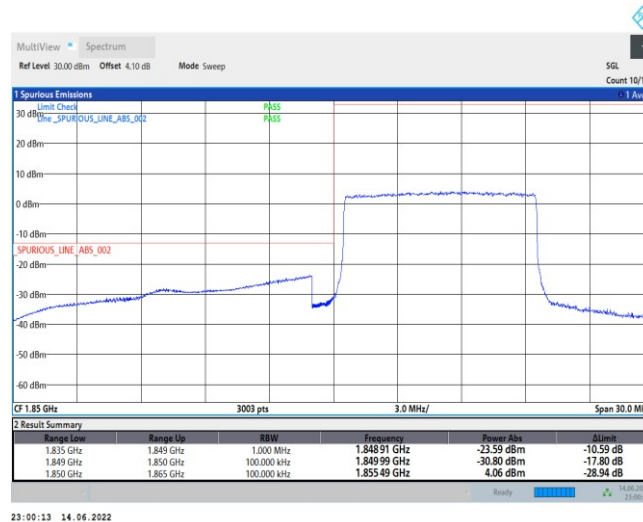
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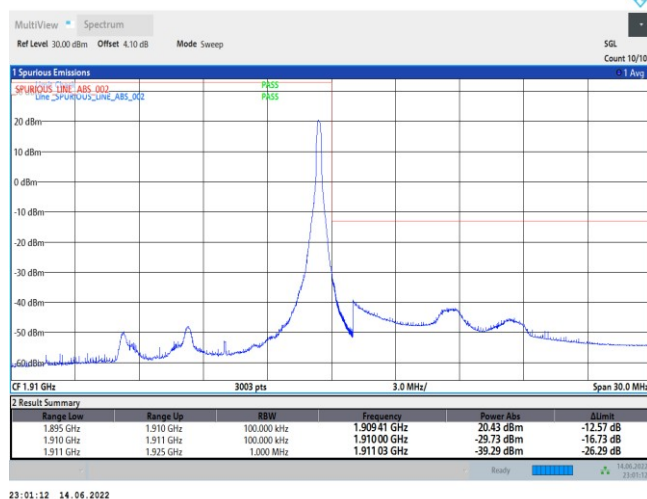
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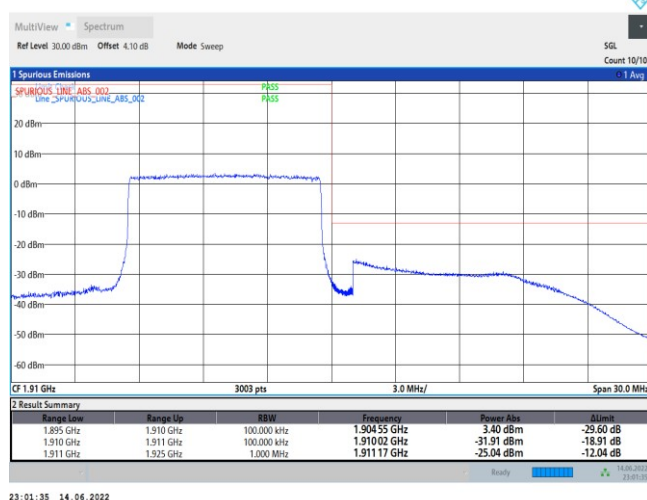
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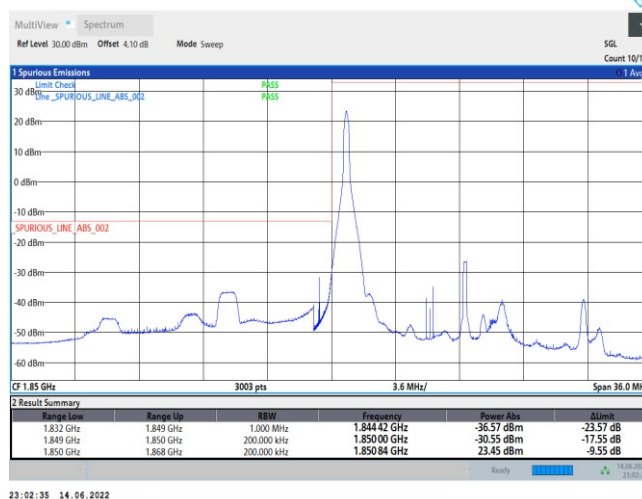
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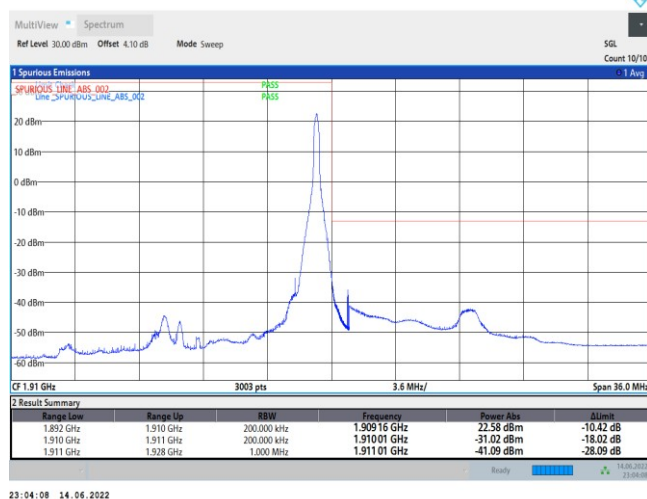
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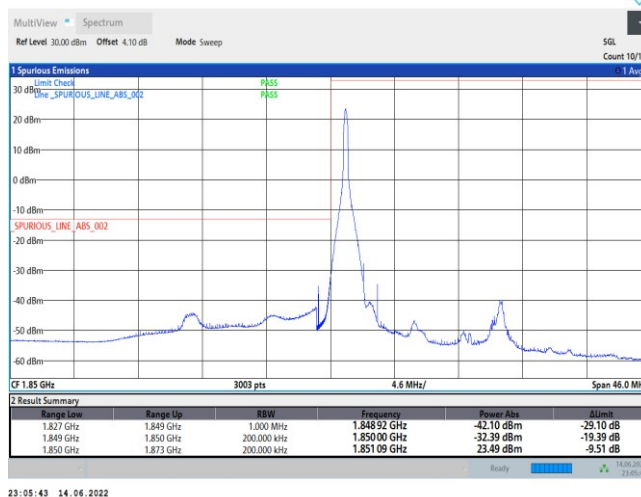
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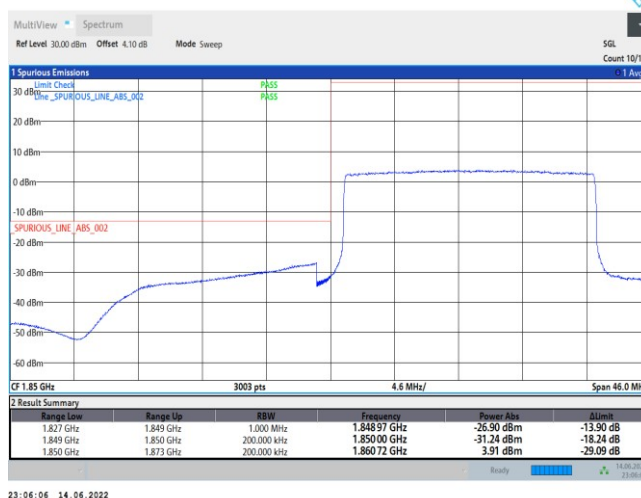
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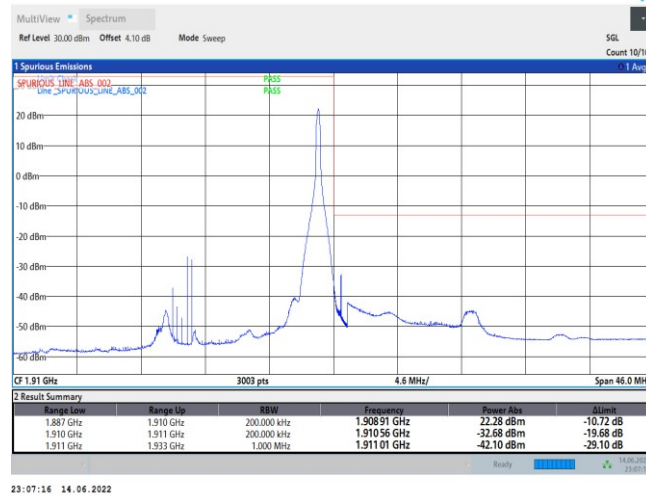
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### Band2-20MHz-QPSK-19100-1RB#99



23:07:16 14.06.2022

### Band2-20MHz-QPSK-19100-100RB#0



23:07:40 14.06.2022



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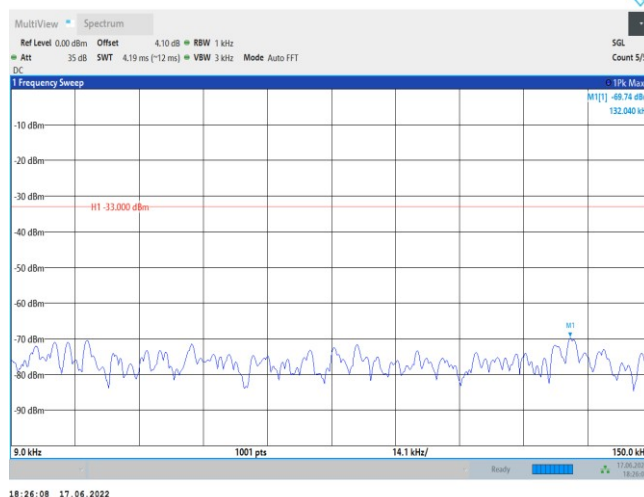
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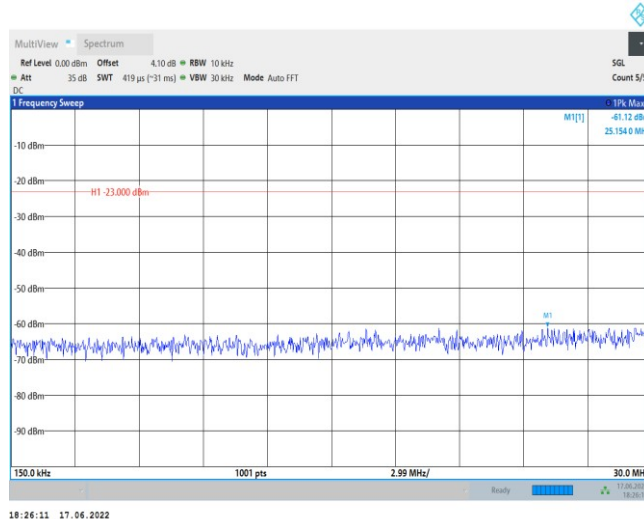
## Conducted Spurious Emission

### Test Graphs

Band2-20MHz-QPSK-18700-1RB#0-Range1:0.009~0.15MHz



Band2-20MHz-QPSK-18700-1RB#0-Range2:0.15~30MHz



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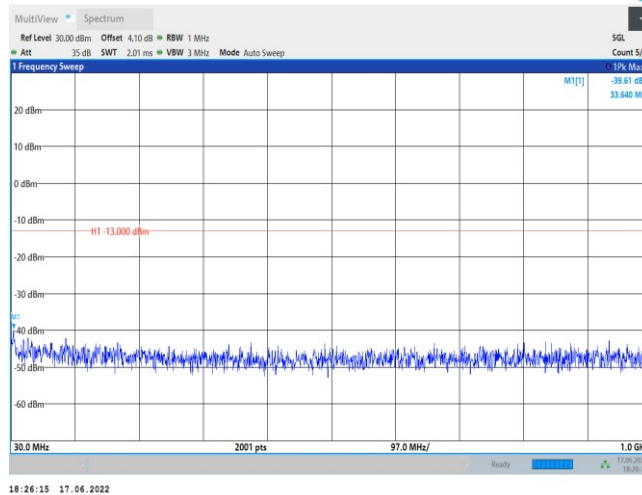
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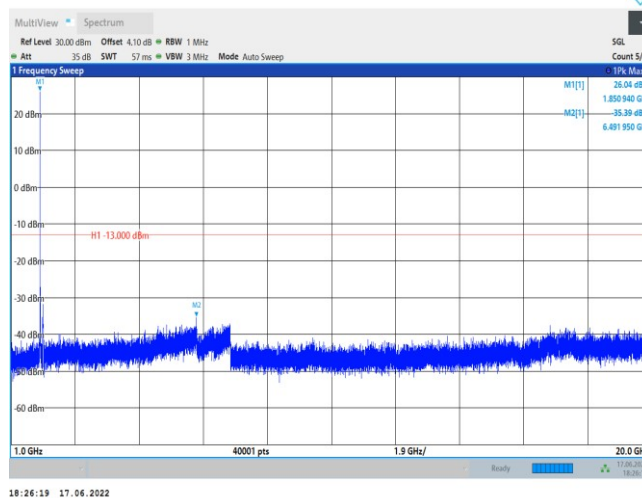
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### Band2-20MHz-QPSK-18700-1RB#0-Range3:30~1000MHz



### Band2-20MHz-QPSK-18700-1RB#0-Range4:1000~20000MHz



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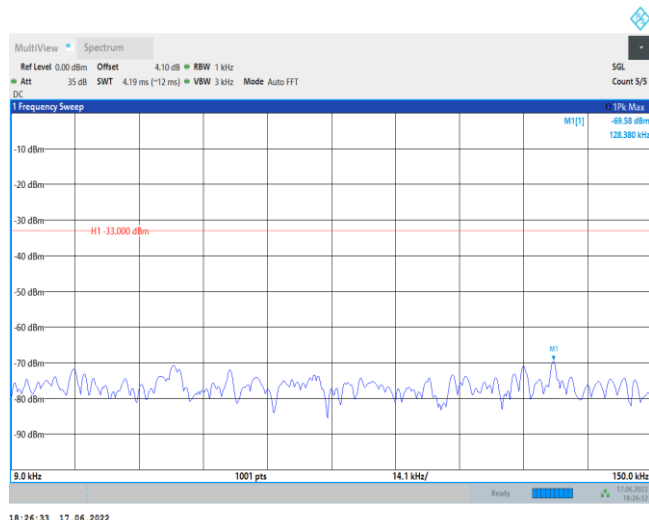
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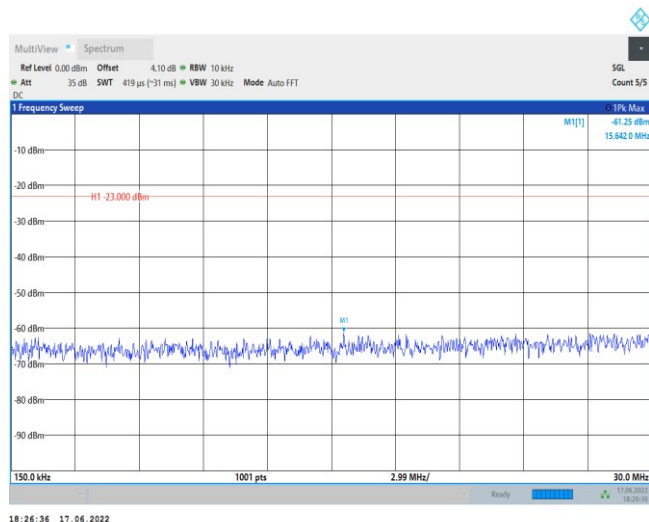
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## Band2-20MHz-QPSK-18900-1RB#0-Range1:0.009~0.15MHz



## Band2-20MHz-QPSK-18900-1RB#0-Range2:0.15~30MHz



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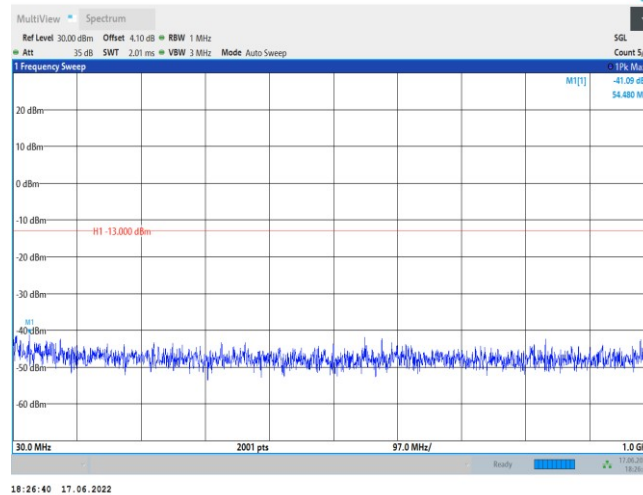
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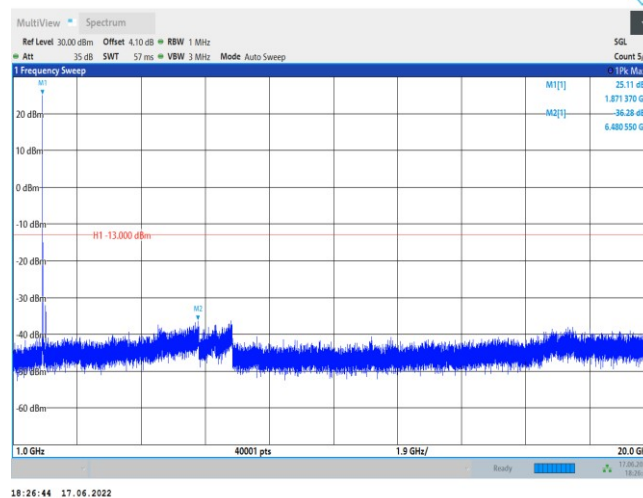
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### Band2-20MHz-QPSK-18900-1RB#0-Range3:30~1000MHz



### Band2-20MHz-QPSK-18900-1RB#0-Range4:1000~20000MHz



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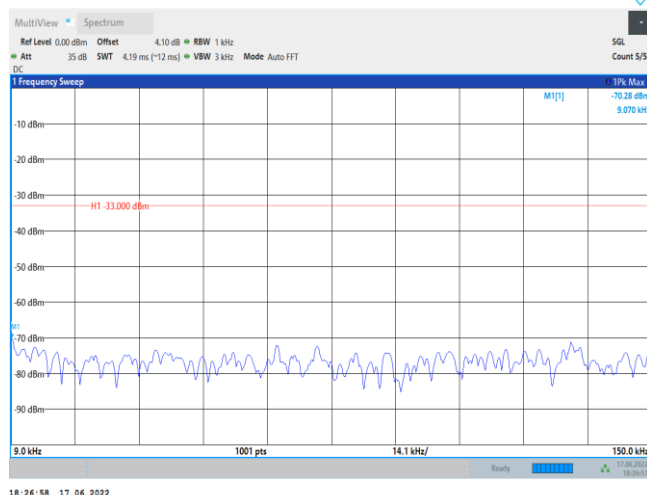
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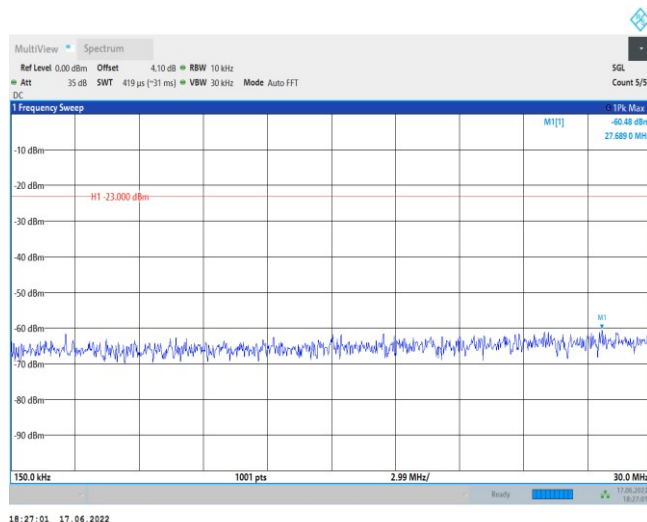
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## Band2-20MHz-QPSK-19100-1RB#0-Range1:0.009~0.15MHz



## Band2-20MHz-QPSK-19100-1RB#0-Range2:0.15~30MHz



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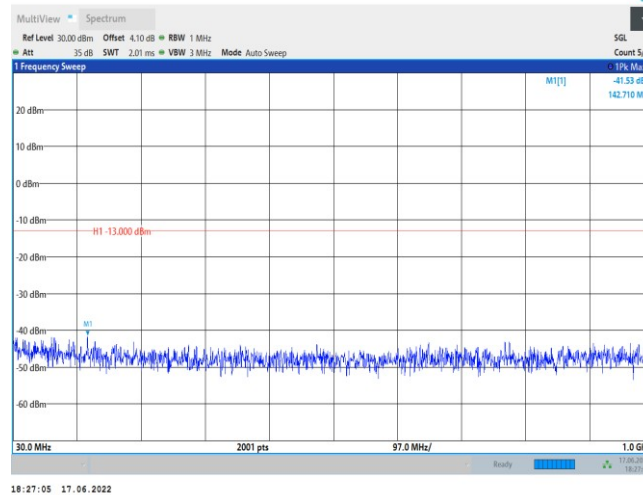
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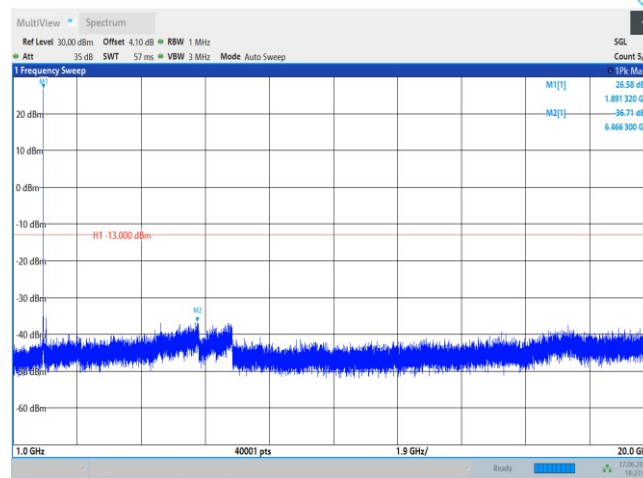
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Band2-20MHz-QPSK-19100-1RB#0-Range3:30~1000MHz



18:27:05 17.06.2022

Band2-20MHz-QPSK-19100-1RB#0-Range4:1000~20000MHz



18:27:09 17.06.2022



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## Field Strength of Spurious Radiation

Test Band = LTE Band 2\_ 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	50.17	-110.79	-60.62	-13.00	47.62	194	242	Horizontal
2	5553.2700	48.76	-107.44	-58.68	-13.00	45.68	234	14	Horizontal
3	7404.3600	48.56	-102.17	-53.61	-13.00	40.61	284	59	Horizontal
4	9255.4500	43.25	-97.11	-53.86	-13.00	40.86	267	75	Horizontal
5	11106.5400	41.90	-94.10	-52.20	-13.00	39.20	137	345	Horizontal
6	12957.6300	38.93	-92.71	-53.78	-13.00	40.78	167	287	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3702.1800	49.73	-110.79	-61.06	-13.00	48.06	167	165	Vertical
2	5553.2700	48.30	-107.44	-59.14	-13.00	46.14	134	284	Vertical
3	7404.3600	47.71	-102.17	-54.46	-13.00	41.46	284	360	Vertical
4	9255.4500	45.60	-97.11	-51.51	-13.00	38.51	237	14	Vertical
5	11106.5400	48.46	-94.10	-45.64	-13.00	32.64	173	73	Vertical
6	12957.6300	38.09	-92.71	-54.62	-13.00	41.62	294	118	Vertical



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**Test Band = LTE Band 2\_ 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	50.32	-110.82	-60.50	-13.00	47.50	164	347	Horizontal
2	5613.2700	48.31	-107.23	-58.92	-13.00	45.92	134	360	Horizontal
3	7484.3600	45.78	-101.99	-56.21	-13.00	43.21	197	122	Horizontal
4	9355.4500	43.98	-96.81	-52.83	-13.00	39.83	264	76	Horizontal
5	11226.5400	40.92	-93.55	-52.63	-13.00	39.63	294	61	Horizontal
6	13097.6300	37.65	-92.39	-54.74	-13.00	41.74	291	360	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3742.1800	50.58	-110.82	-60.24	-13.00	47.24	149	157	Vertical
2	5613.2700	48.33	-107.23	-58.90	-13.00	45.90	134	3	Vertical
3	7484.3600	47.09	-101.99	-54.90	-13.00	41.90	162	238	Vertical
4	9355.4500	44.38	-96.81	-52.43	-13.00	39.43	294	357	Vertical
5	11226.5400	46.91	-93.55	-46.64	-13.00	33.64	237	90	Vertical
6	13097.6300	37.39	-92.39	-55.00	-13.00	42.00	261	357	Vertical



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**Test Band = LTE Band 2\_ 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	3782.1800	51.71	-110.84	-59.13	-13.00	46.13	234	345	Horizontal
2	5673.2700	48.04	-106.88	-58.84	-13.00	45.84	291	120	Horizontal
3	7564.3600	45.81	-101.86	-56.05	-13.00	43.05	137	302	Horizontal
4	9455.4500	41.57	-96.84	-55.27	-13.00	42.27	134	360	Horizontal
5	11346.5400	41.82	-93.55	-51.73	-13.00	38.73	167	29	Horizontal
6	13237.6300	37.07	-92.37	-55.30	-13.00	42.30	194	60	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3782.1800	50.88	-110.84	-59.96	-13.00	46.96	261	90	Vertical
2	5673.2700	48.73	-106.88	-58.15	-13.00	45.15	271	164	Vertical
3	7564.3600	48.49	-101.86	-53.37	-13.00	40.37	134	357	Vertical
4	9455.4500	45.04	-96.84	-51.80	-13.00	38.80	138	59	Vertical
5	11346.5400	43.76	-93.55	-49.79	-13.00	36.79	164	285	Vertical
6	13237.6300	36.80	-92.37	-55.57	-13.00	42.57	297	133	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
Band2	20MHz	QPSK	18900	100RB#0	VL	NT	6.30	0.003351	PASS
Band2	20MHz	QPSK	18900	100RB#0	VN	NT	-3.20	-0.001702	PASS
Band2	20MHz	QPSK	18900	100RB#0	VH	NT	-8.70	-0.004628	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band2	20MHz	QPSK	18900	100RB#0	NV	-30	1.20	0.000638	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-20	5.10	0.002713	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-10	8.70	0.004628	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	0	1.70	0.000904	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	10	1.40	0.000745	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	20	7.90	0.004202	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	30	-1.00	-0.000532	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	40	-4.60	-0.002447	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	50	3.80	0.002021	PASS

The End



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