



Appendix B

E-UTRA Band 26 (814-824)



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1. Effective (Isotropic) Radiated Power

1.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	Verdict
Band26	1.4MHz	QPSK	26697	1RB#0	23.05	PASS
Band26	1.4MHz	QPSK	26697	1RB#2	23.14	PASS
Band26	1.4MHz	QPSK	26697	1RB#5	22.98	PASS
Band26	1.4MHz	QPSK	26697	3RB#0	23.12	PASS
Band26	1.4MHz	QPSK	26697	3RB#1	23.16	PASS
Band26	1.4MHz	QPSK	26697	3RB#3	23.10	PASS
Band26	1.4MHz	QPSK	26697	6RB#0	22.10	PASS
Band26	1.4MHz	QPSK	26740	1RB#0	22.96	PASS
Band26	1.4MHz	QPSK	26740	1RB#2	23.05	PASS
Band26	1.4MHz	QPSK	26740	1RB#5	23.02	PASS
Band26	1.4MHz	QPSK	26740	3RB#0	23.07	PASS
Band26	1.4MHz	QPSK	26740	3RB#1	23.03	PASS
Band26	1.4MHz	QPSK	26740	3RB#3	22.93	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	21.92	PASS
Band26	1.4MHz	QPSK	26783	1RB#0	23.01	PASS
Band26	1.4MHz	QPSK	26783	1RB#2	22.97	PASS
Band26	1.4MHz	QPSK	26783	1RB#5	23.00	PASS
Band26	1.4MHz	QPSK	26783	3RB#0	22.95	PASS
Band26	1.4MHz	QPSK	26783	3RB#1	22.96	PASS
Band26	1.4MHz	QPSK	26783	3RB#3	22.85	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	21.94	PASS
Band26	1.4MHz	16QAM	26697	1RB#0	22.22	PASS
Band26	1.4MHz	16QAM	26697	1RB#2	22.37	PASS
Band26	1.4MHz	16QAM	26697	1RB#5	22.19	PASS
Band26	1.4MHz	16QAM	26697	3RB#0	22.03	PASS
Band26	1.4MHz	16QAM	26697	3RB#1	22.19	PASS
Band26	1.4MHz	16QAM	26697	3RB#3	22.08	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	21.17	PASS
Band26	1.4MHz	16QAM	26740	1RB#0	22.13	PASS
Band26	1.4MHz	16QAM	26740	1RB#2	22.20	PASS
Band26	1.4MHz	16QAM	26740	1RB#5	22.07	PASS
Band26	1.4MHz	16QAM	26740	3RB#0	22.04	PASS



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Band26	1.4MHz	16QAM	26740	3RB#1	22.15	PASS
Band26	1.4MHz	16QAM	26740	3RB#3	21.98	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	21.07	PASS
Band26	1.4MHz	16QAM	26783	1RB#0	22.07	PASS
Band26	1.4MHz	16QAM	26783	1RB#2	22.09	PASS
Band26	1.4MHz	16QAM	26783	1RB#5	22.15	PASS
Band26	1.4MHz	16QAM	26783	3RB#0	22.01	PASS
Band26	1.4MHz	16QAM	26783	3RB#1	22.10	PASS
Band26	1.4MHz	16QAM	26783	3RB#3	22.02	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	21.00	PASS
Band26	3MHz	QPSK	26705	1RB#0	23.07	PASS
Band26	3MHz	QPSK	26705	1RB#8	23.05	PASS
Band26	3MHz	QPSK	26705	1RB#14	22.93	PASS
Band26	3MHz	QPSK	26705	8RB#0	22.01	PASS
Band26	3MHz	QPSK	26705	8RB#4	22.01	PASS
Band26	3MHz	QPSK	26705	8RB#7	21.91	PASS
Band26	3MHz	QPSK	26705	15RB#0	21.98	PASS
Band26	3MHz	QPSK	26740	1RB#0	22.98	PASS
Band26	3MHz	QPSK	26740	1RB#8	22.96	PASS
Band26	3MHz	QPSK	26740	1RB#14	22.88	PASS
Band26	3MHz	QPSK	26740	8RB#0	21.93	PASS
Band26	3MHz	QPSK	26740	8RB#4	22.05	PASS
Band26	3MHz	QPSK	26740	8RB#7	21.96	PASS
Band26	3MHz	QPSK	26740	15RB#0	22.01	PASS
Band26	3MHz	QPSK	26775	1RB#0	23.07	PASS
Band26	3MHz	QPSK	26775	1RB#8	23.06	PASS
Band26	3MHz	QPSK	26775	1RB#14	22.99	PASS
Band26	3MHz	QPSK	26775	8RB#0	21.98	PASS
Band26	3MHz	QPSK	26775	8RB#4	22.01	PASS
Band26	3MHz	QPSK	26775	8RB#7	21.97	PASS
Band26	3MHz	QPSK	26775	15RB#0	21.99	PASS
Band26	3MHz	16QAM	26705	1RB#0	22.14	PASS
Band26	3MHz	16QAM	26705	1RB#8	22.12	PASS
Band26	3MHz	16QAM	26705	1RB#14	22.20	PASS
Band26	3MHz	16QAM	26705	8RB#0	21.12	PASS
Band26	3MHz	16QAM	26705	8RB#4	20.94	PASS
Band26	3MHz	16QAM	26705	8RB#7	20.95	PASS
Band26	3MHz	16QAM	26705	15RB#0	20.96	PASS



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Band26	3MHz	16QAM	26740	1RB#0	22.19	PASS
Band26	3MHz	16QAM	26740	1RB#8	22.14	PASS
Band26	3MHz	16QAM	26740	1RB#14	22.15	PASS
Band26	3MHz	16QAM	26740	8RB#0	20.94	PASS
Band26	3MHz	16QAM	26740	8RB#4	21.04	PASS
Band26	3MHz	16QAM	26740	8RB#7	21.08	PASS
Band26	3MHz	16QAM	26740	15RB#0	20.98	PASS
Band26	3MHz	16QAM	26775	1RB#0	22.12	PASS
Band26	3MHz	16QAM	26775	1RB#8	22.14	PASS
Band26	3MHz	16QAM	26775	1RB#14	22.14	PASS
Band26	3MHz	16QAM	26775	8RB#0	21.09	PASS
Band26	3MHz	16QAM	26775	8RB#4	21.00	PASS
Band26	3MHz	16QAM	26775	8RB#7	21.07	PASS
Band26	3MHz	16QAM	26775	15RB#0	20.96	PASS
Band26	5MHz	QPSK	26715	1RB#0	23.11	PASS
Band26	5MHz	QPSK	26715	1RB#12	23.21	PASS
Band26	5MHz	QPSK	26715	1RB#24	22.95	PASS
Band26	5MHz	QPSK	26715	12RB#0	22.03	PASS
Band26	5MHz	QPSK	26715	12RB#6	22.02	PASS
Band26	5MHz	QPSK	26715	12RB#13	22.04	PASS
Band26	5MHz	QPSK	26715	25RB#0	22.01	PASS
Band26	5MHz	QPSK	26740	1RB#0	23.03	PASS
Band26	5MHz	QPSK	26740	1RB#12	23.01	PASS
Band26	5MHz	QPSK	26740	1RB#24	22.80	PASS
Band26	5MHz	QPSK	26740	12RB#0	22.03	PASS
Band26	5MHz	QPSK	26740	12RB#6	22.00	PASS
Band26	5MHz	QPSK	26740	12RB#13	21.93	PASS
Band26	5MHz	QPSK	26740	25RB#0	22.04	PASS
Band26	5MHz	QPSK	26765	1RB#0	23.06	PASS
Band26	5MHz	QPSK	26765	1RB#12	22.99	PASS
Band26	5MHz	QPSK	26765	1RB#24	22.62	PASS
Band26	5MHz	QPSK	26765	12RB#0	22.02	PASS
Band26	5MHz	QPSK	26765	12RB#6	22.01	PASS
Band26	5MHz	QPSK	26765	12RB#13	21.98	PASS
Band26	5MHz	QPSK	26765	25RB#0	22.03	PASS
Band26	5MHz	16QAM	26715	1RB#0	22.28	PASS
Band26	5MHz	16QAM	26715	1RB#12	22.44	PASS
Band26	5MHz	16QAM	26715	1RB#24	22.20	PASS



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Band26	5MHz	16QAM	26715	12RB#0	21.05	PASS
Band26	5MHz	16QAM	26715	12RB#6	21.02	PASS
Band26	5MHz	16QAM	26715	12RB#13	21.03	PASS
Band26	5MHz	16QAM	26715	25RB#0	20.89	PASS
Band26	5MHz	16QAM	26740	1RB#0	22.24	PASS
Band26	5MHz	16QAM	26740	1RB#12	22.25	PASS
Band26	5MHz	16QAM	26740	1RB#24	22.24	PASS
Band26	5MHz	16QAM	26740	12RB#0	21.14	PASS
Band26	5MHz	16QAM	26740	12RB#6	21.09	PASS
Band26	5MHz	16QAM	26740	12RB#13	21.05	PASS
Band26	5MHz	16QAM	26740	25RB#0	21.00	PASS
Band26	5MHz	16QAM	26765	1RB#0	22.30	PASS
Band26	5MHz	16QAM	26765	1RB#12	22.33	PASS
Band26	5MHz	16QAM	26765	1RB#24	22.12	PASS
Band26	5MHz	16QAM	26765	12RB#0	21.02	PASS
Band26	5MHz	16QAM	26765	12RB#6	21.10	PASS
Band26	5MHz	16QAM	26765	12RB#13	21.07	PASS
Band26	5MHz	16QAM	26765	25RB#0	21.04	PASS
Band26	10MHz	QPSK	26740	1RB#0	23.05	PASS
Band26	10MHz	QPSK	26740	1RB#24	23.54	PASS
Band26	10MHz	QPSK	26740	1RB#49	22.28	PASS
Band26	10MHz	QPSK	26740	25RB#0	22.24	PASS
Band26	10MHz	QPSK	26740	25RB#12	22.02	PASS
Band26	10MHz	QPSK	26740	25RB#25	21.96	PASS
Band26	10MHz	QPSK	26740	50RB#0	22.06	PASS
Band26	10MHz	16QAM	26740	1RB#0	22.65	PASS
Band26	10MHz	16QAM	26740	1RB#24	22.11	PASS
Band26	10MHz	16QAM	26740	1RB#49	22.53	PASS
Band26	10MHz	16QAM	26740	25RB#0	21.03	PASS
Band26	10MHz	16QAM	26740	25RB#12	21.02	PASS
Band26	10MHz	16QAM	26740	25RB#25	21.01	PASS
Band26	10MHz	16QAM	26740	50RB#0	21.13	PASS



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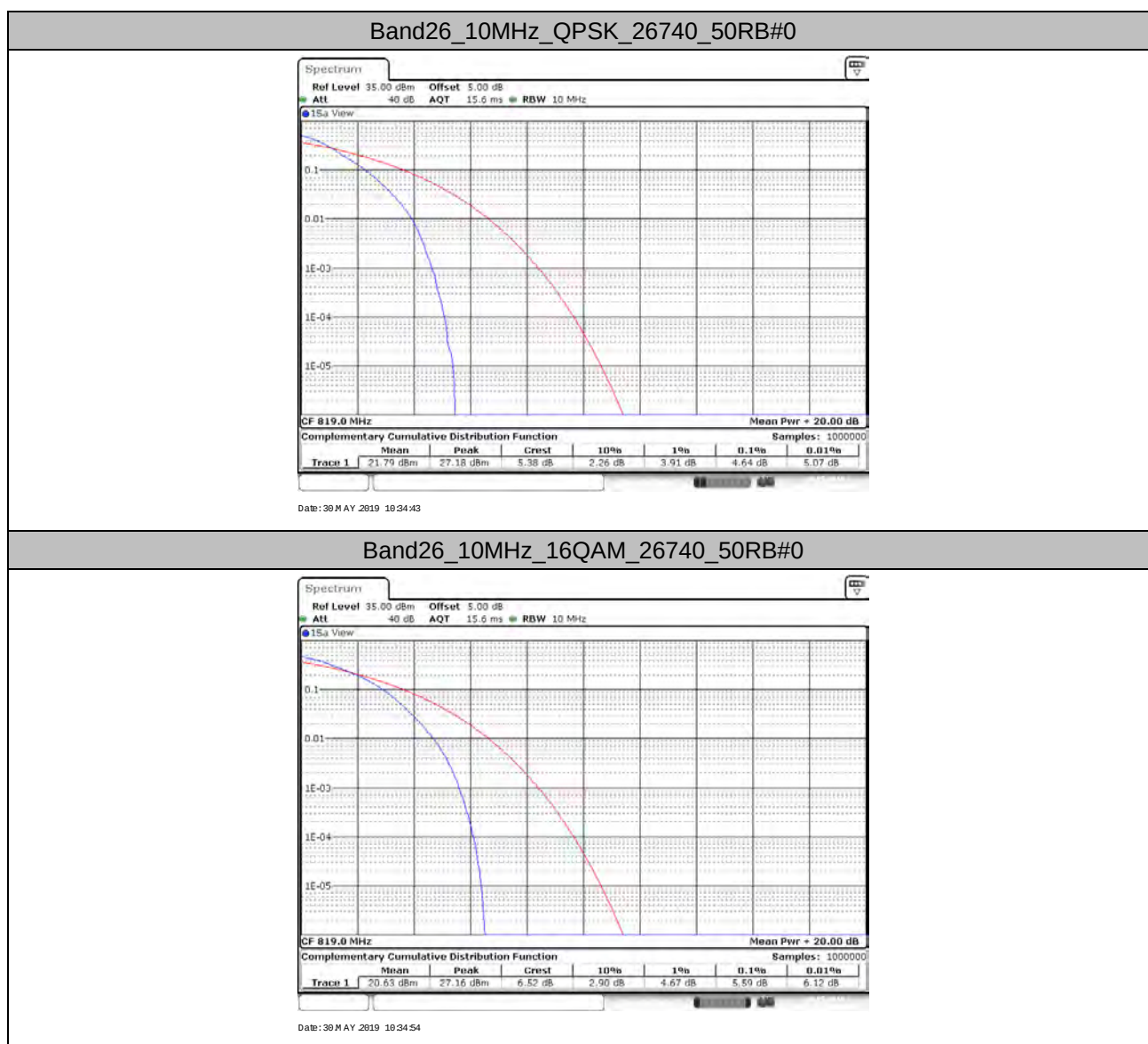


2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	4.64	13	PASS
Band26	10MHz	16QAM	26740	50RB#0	5.59	13	PASS

2.2. Test Plots



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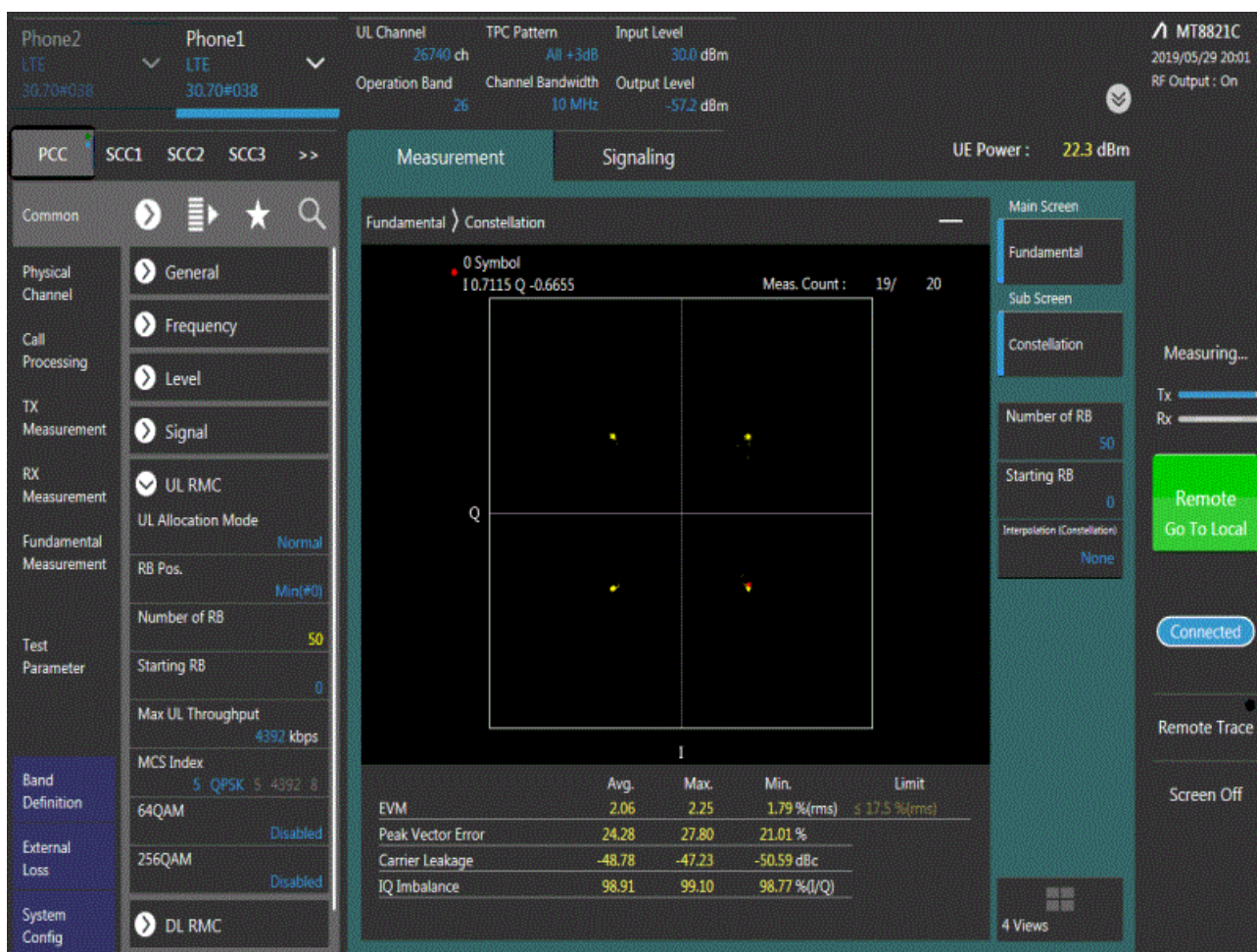


3. Modulation Characteristics

3.1. Test BAND = LTE Band 26

3.2. Test Mode = LTE /TM1 10MHz

3.2.1. Test Channel = MCH



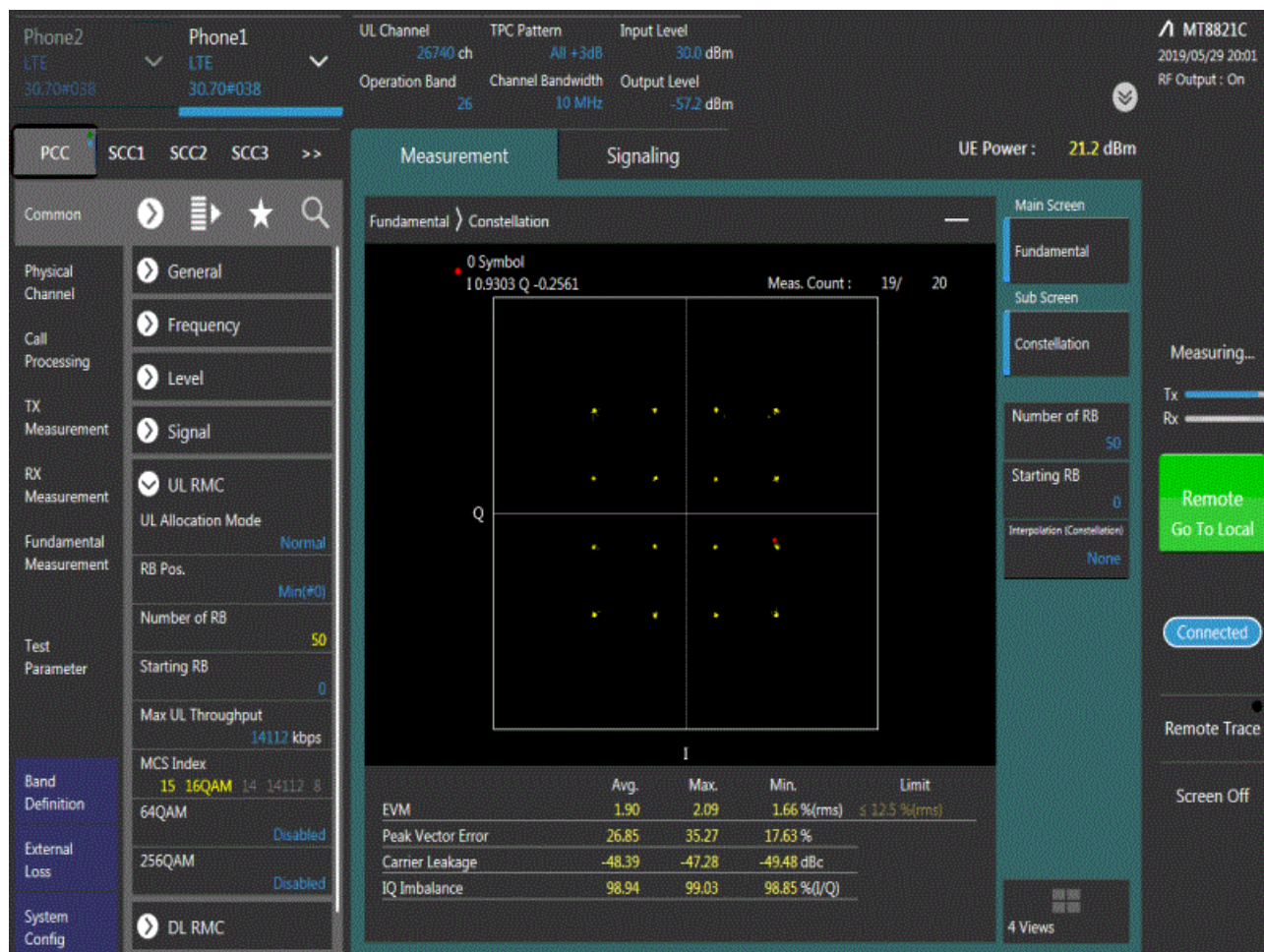
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3.3. Test Mode = LTE /TM2 10MHz

3.3.1. Test Channel = MCH





4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band26	1.4MHz	QPSK	26697	6RB#0	1.100	1.287	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	1.097	1.326	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	1.094	1.311	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	1.097	1.305	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	1.094	1.287	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	1.097	1.299	PASS
Band26	3MHz	QPSK	26705	15RB#0	2.697	2.994	PASS
Band26	3MHz	QPSK	26740	15RB#0	2.703	2.982	PASS
Band26	3MHz	QPSK	26775	15RB#0	2.703	2.964	PASS
Band26	3MHz	16QAM	26705	15RB#0	2.691	2.982	PASS
Band26	3MHz	16QAM	26740	15RB#0	2.691	2.982	PASS
Band26	3MHz	16QAM	26775	15RB#0	2.697	3.006	PASS
Band26	5MHz	QPSK	26715	25RB#0	4.466	4.890	PASS
Band26	5MHz	QPSK	26740	25RB#0	4.486	4.950	PASS
Band26	5MHz	QPSK	26765	25RB#0	4.486	4.940	PASS
Band26	5MHz	16QAM	26715	25RB#0	4.466	4.950	PASS
Band26	5MHz	16QAM	26740	25RB#0	4.476	4.920	PASS
Band26	5MHz	16QAM	26765	25RB#0	4.476	4.900	PASS
Band26	10MHz	QPSK	26740	50RB#0	8.911	9.640	PASS
Band26	10MHz	16QAM	26740	50RB#0	8.911	9.680	PASS



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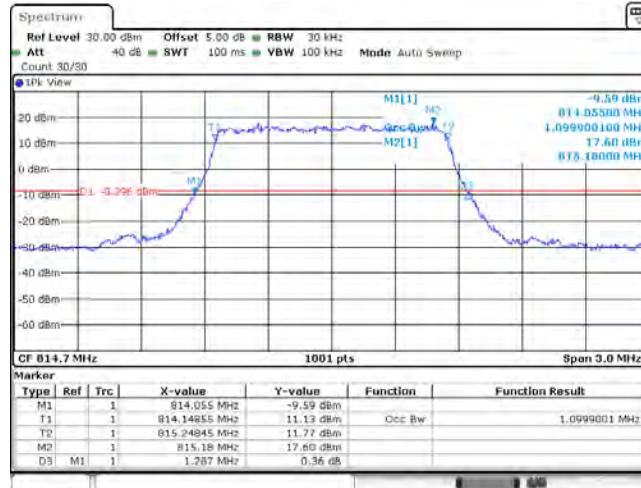
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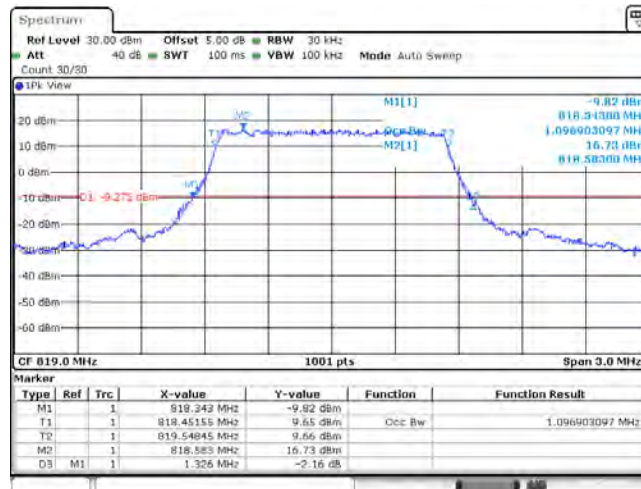
4.2. Test Plots

Band26_1.4MHz_QPSK_26697_6RB#0



Date: 30 MAY 2019 18:21:53

Band26_1.4MHz_QPSK_26740_6RB#0



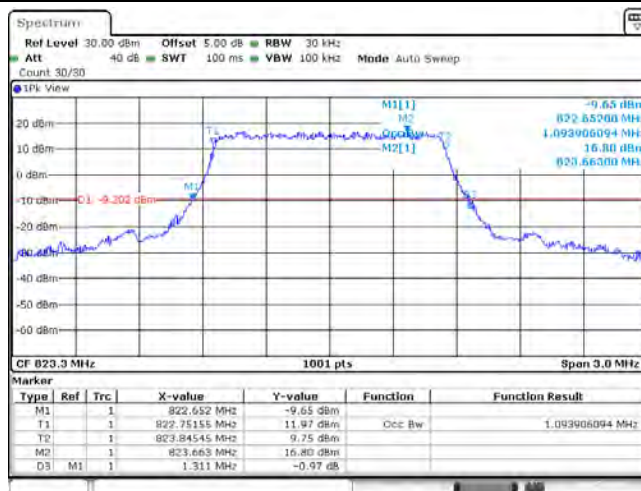
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Band26_1.4MHz_QPSK_26783_6RB#0



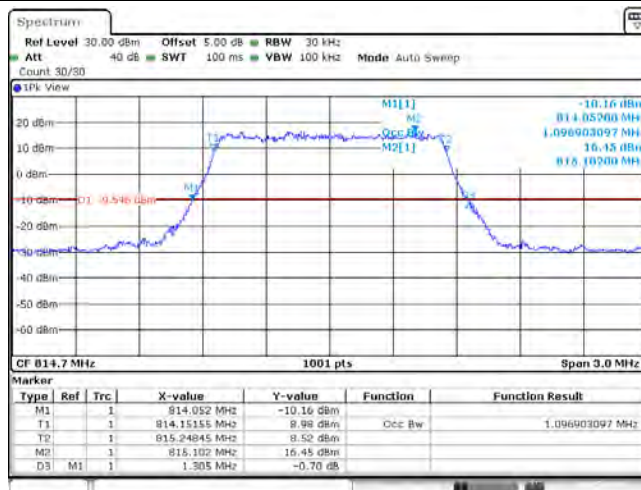
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Date: 30 MAY 2019 10:22:49

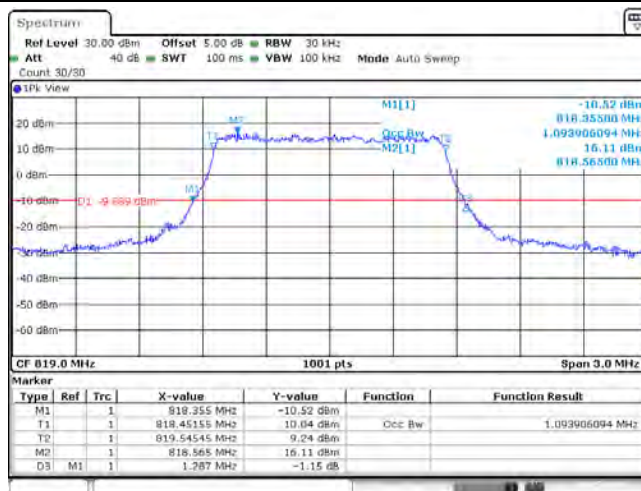
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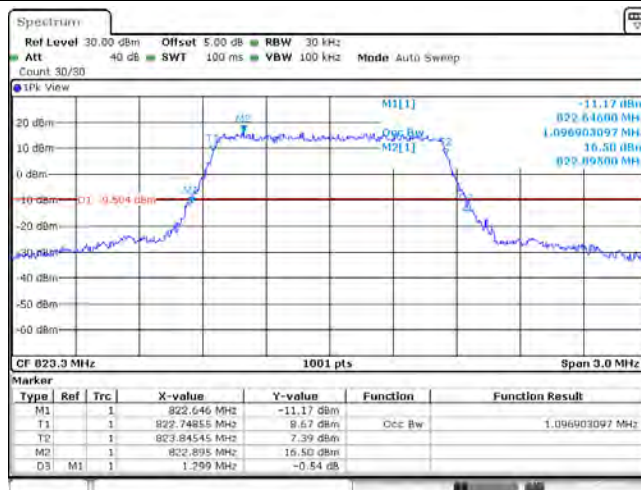
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Date: 30 MAY 2019 10:22:34

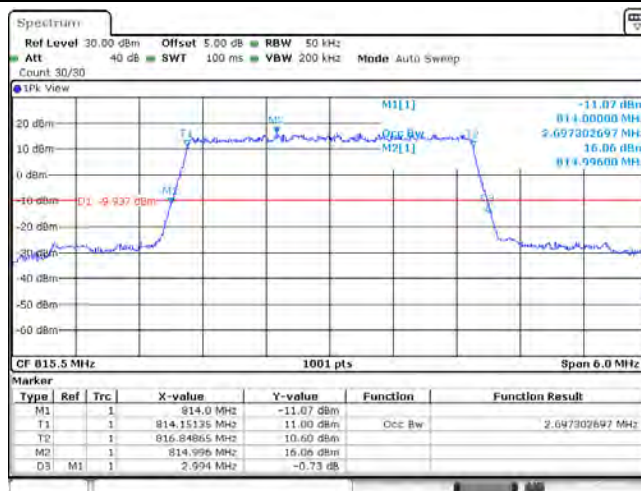
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Date: 30 MAY 2019 10:23:01

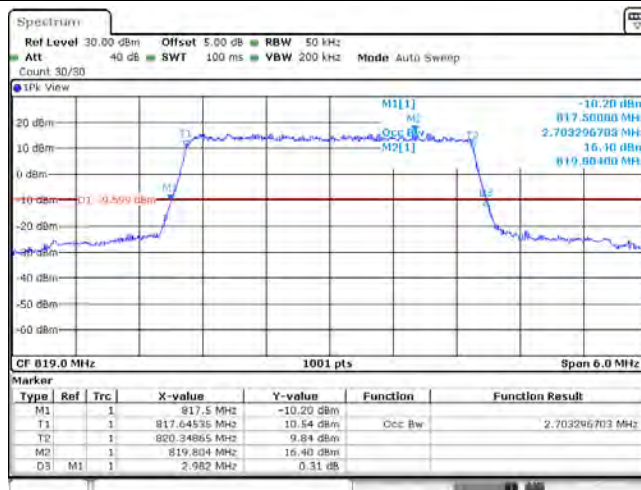
Band26_3MHz_QPSK_26705_15RB#0





Date: 30 MAY 2019 10:23:28

Band26_3MHz_QPSK_26740_15RB#0



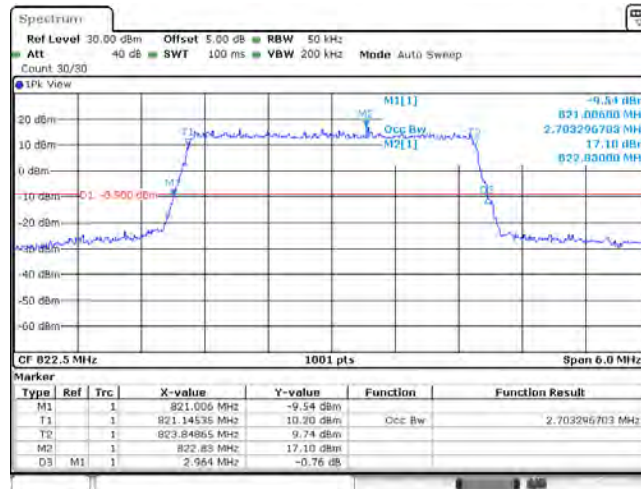
Date: 30 MAY 2019 10:23:47

Band26_3MHz_QPSK_26775_15RB#0



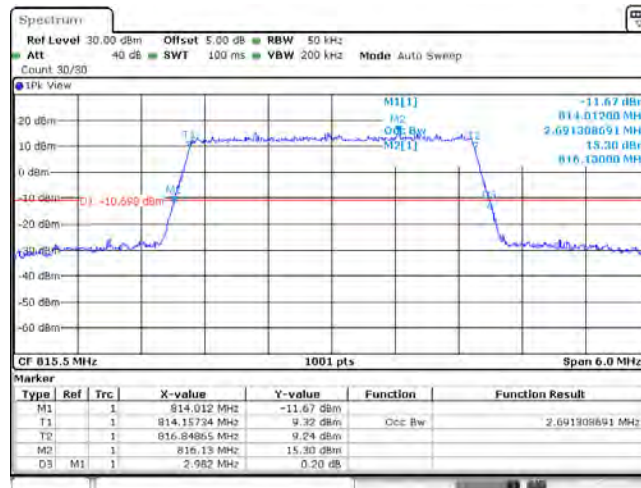
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Date: 30 MAY 2019 10:24:15

Band26_3MHz_16QAM_26705_15RB#0



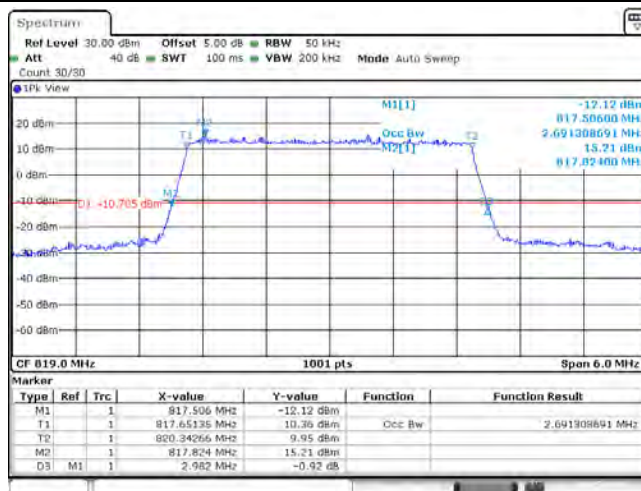
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Band26_3MHz_16QAM_26740_15RB#0



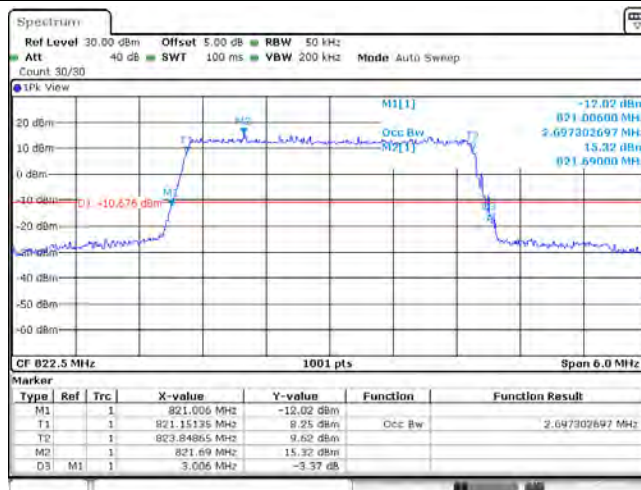
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Date: 30 MAY 2019 10:24:09

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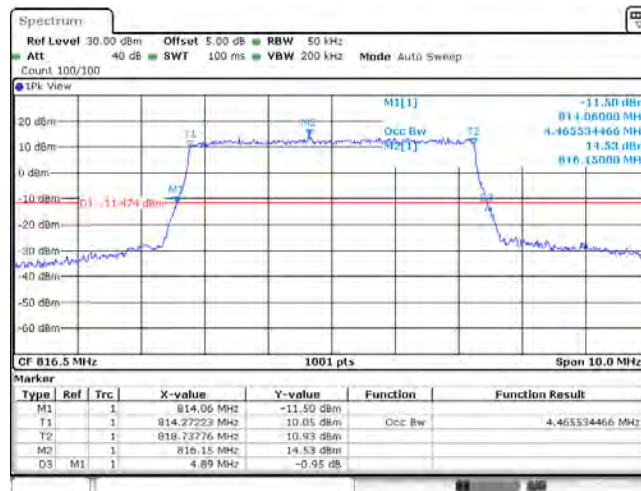
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Band26_5MHz_QPSK_26715_25RB#0



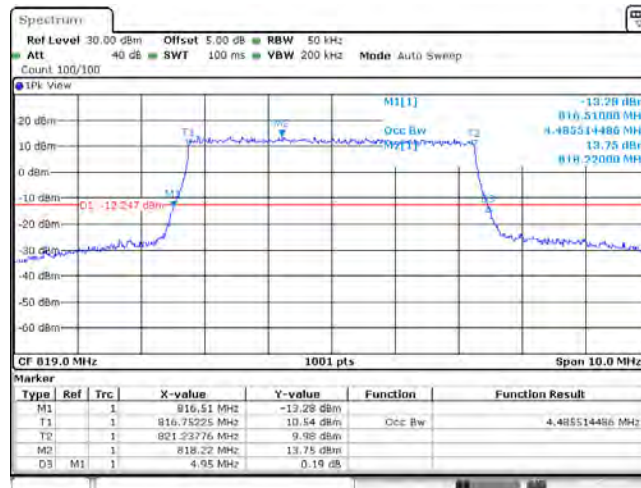
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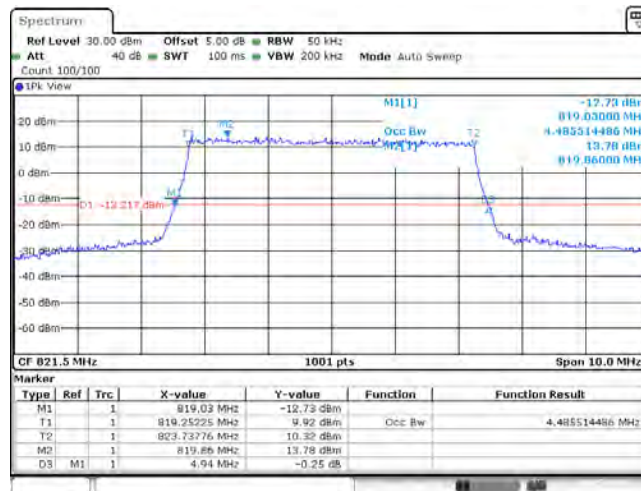
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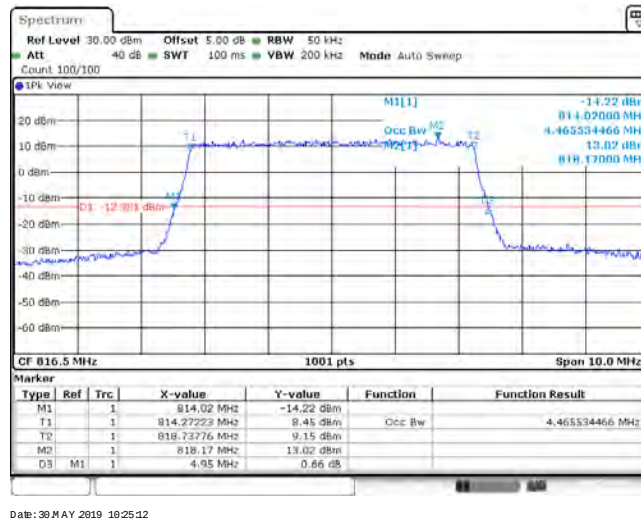
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Band26_5MHz_QPSK_26765_25RB#0





Band26_5MHz_16QAM_26715_25RB#0



Band26_5MHz_16QAM_26740_25RB#0



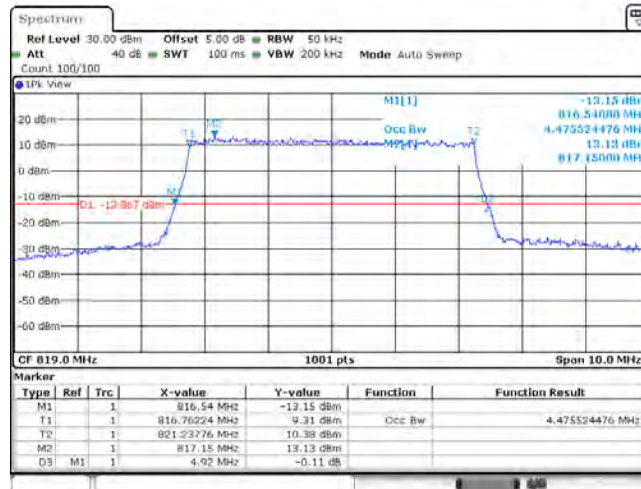
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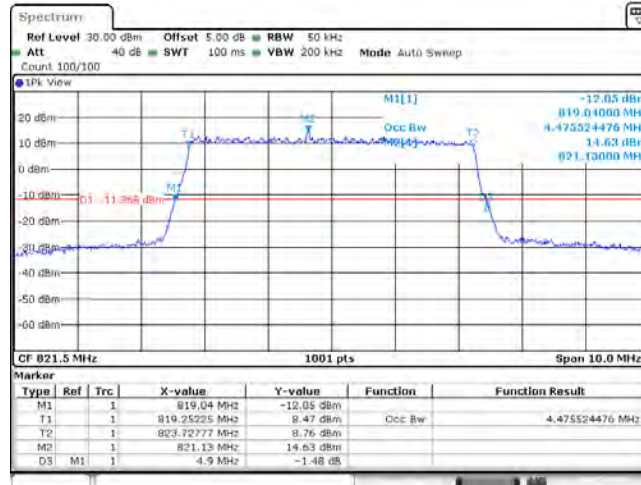
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Date: 30 MAY 2019 10:25:55

Band26_5MHz_16QAM_26765_25RB#0



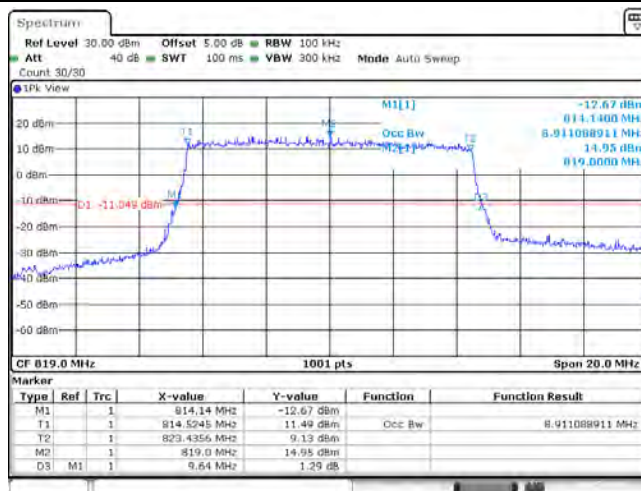
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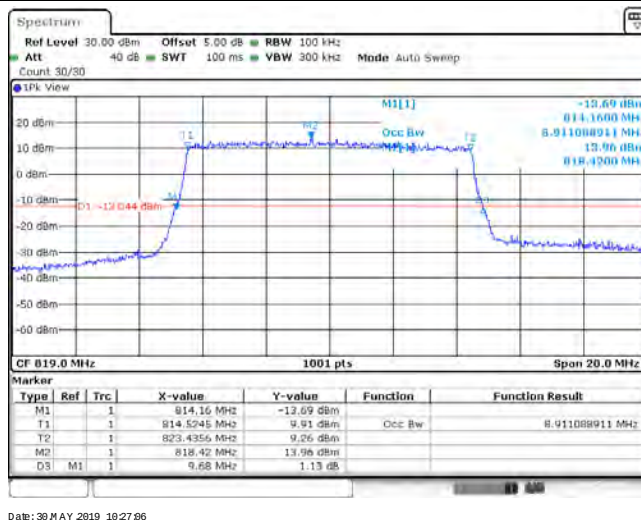


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Band26_10MHz_16QAM_26740_50RB#0



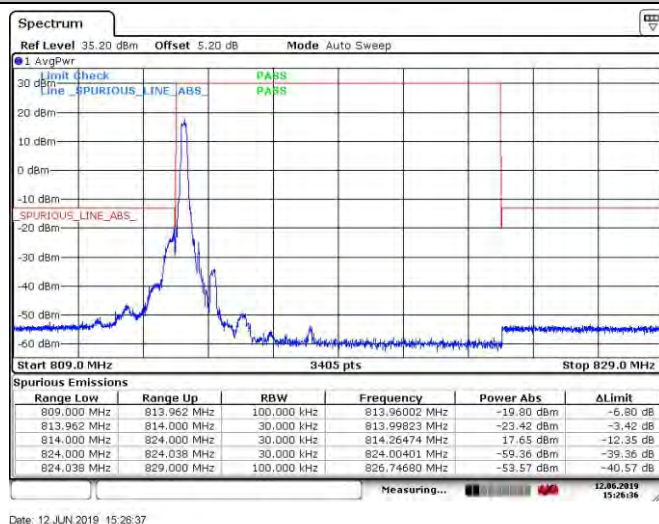
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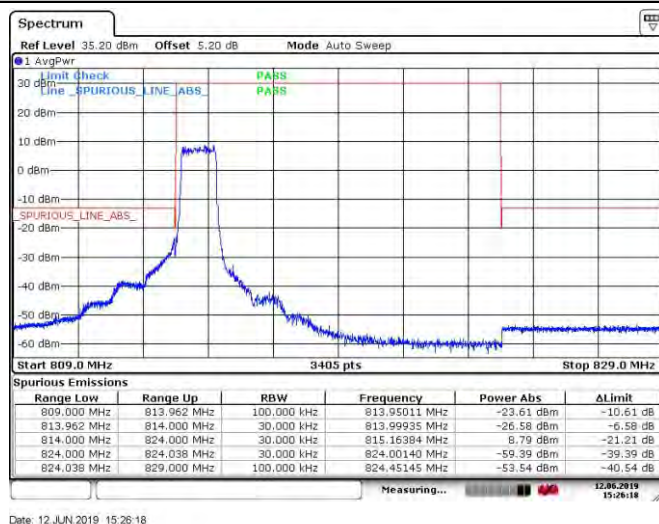
5.1. Test Plots

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Date: 12 JUN 2019 15:26:37

Band26_1.4MHz_QPSK_26697_6RB#0



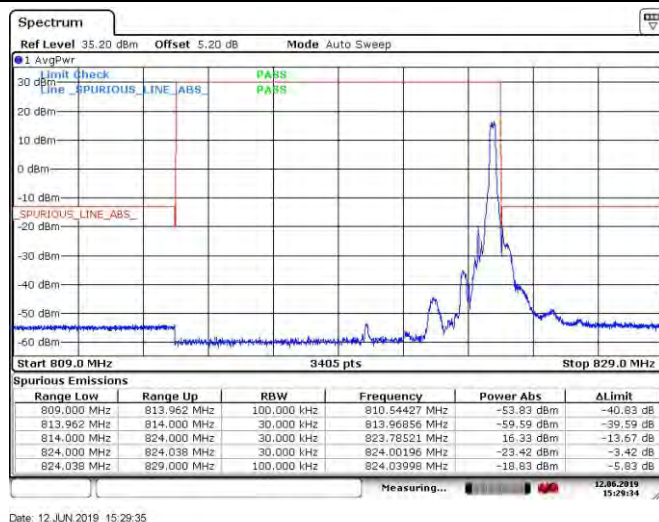
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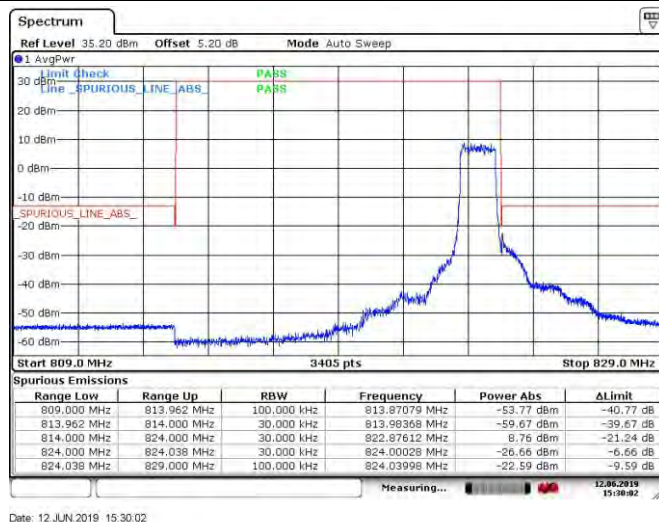
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Date: 12 JUN 2019 15:29:35

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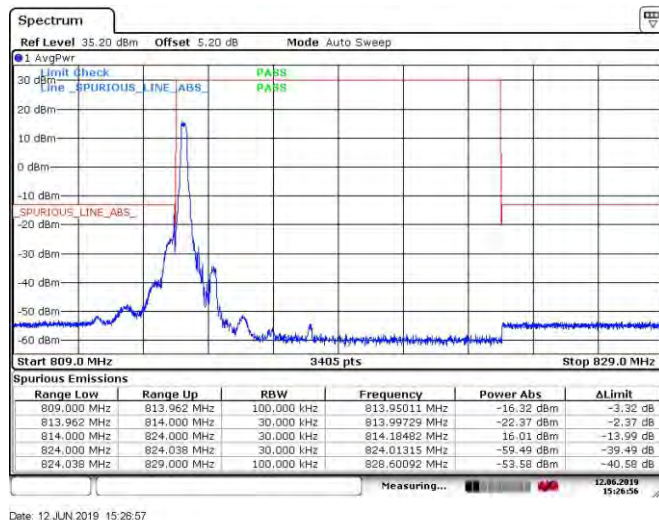
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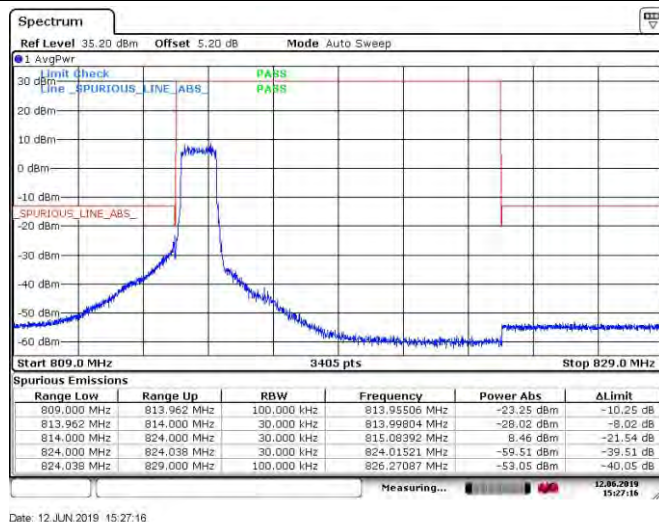


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Band26_1.4MHz_16QAM_26697_6RB#0

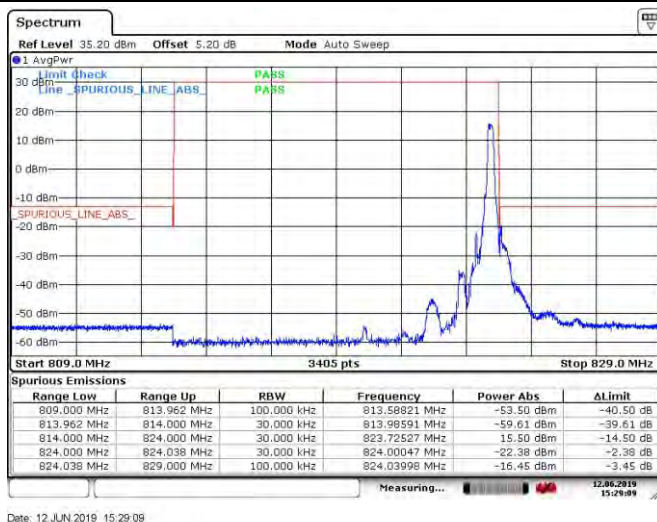


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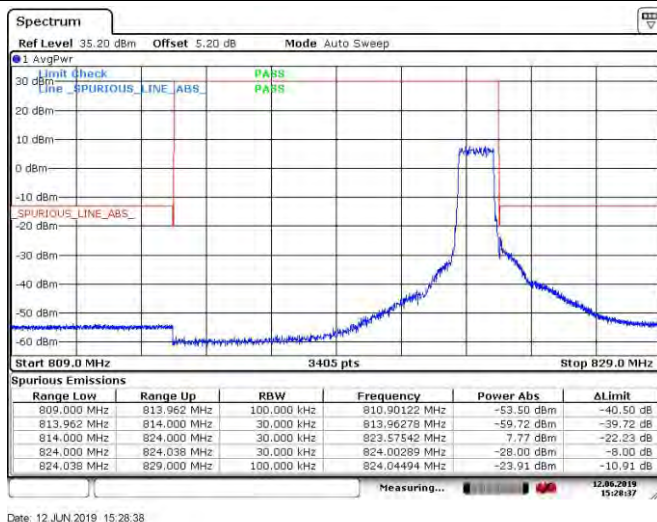


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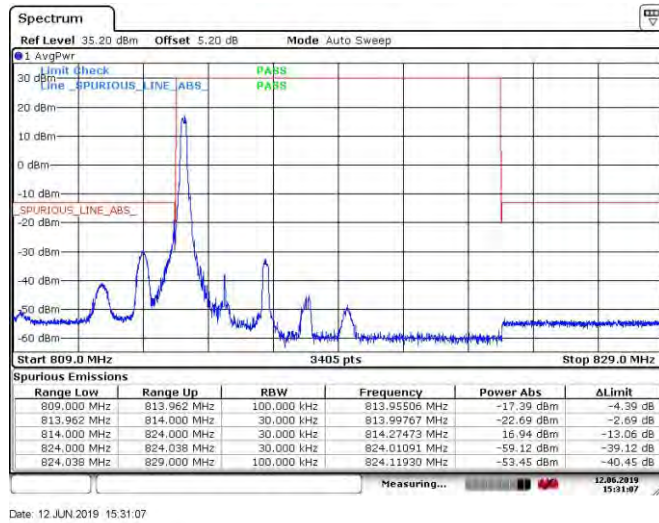


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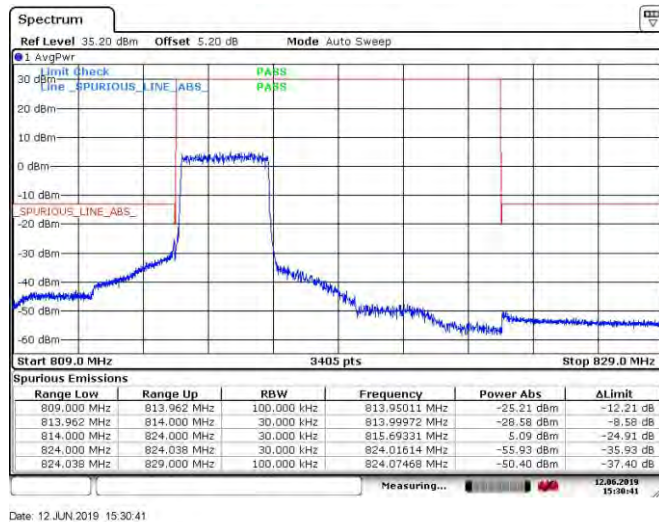


Band26_3MHz_QPSK_26705_1RB#0





Band26_3MHz_QPSK_26705_15RB#0



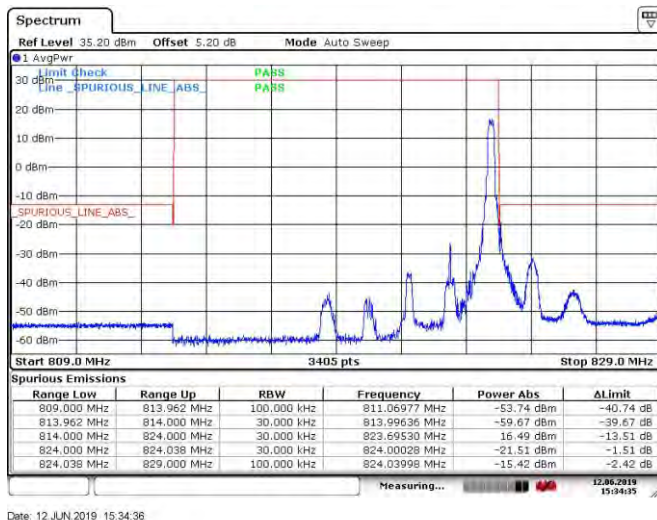
Band26_3MHz_QPSK_26775_1RB#14



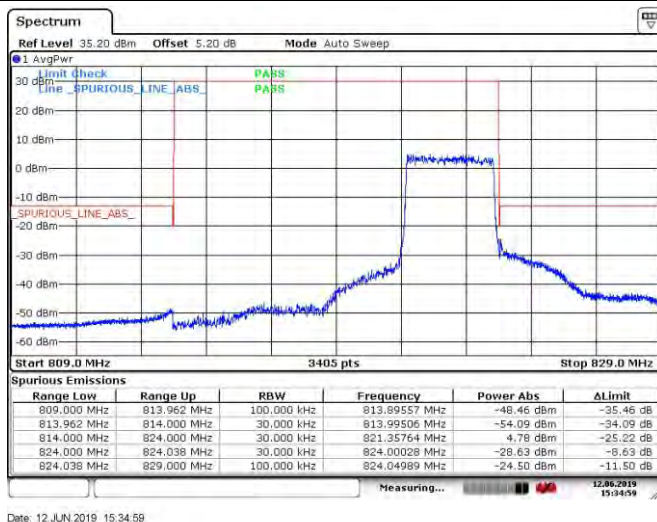
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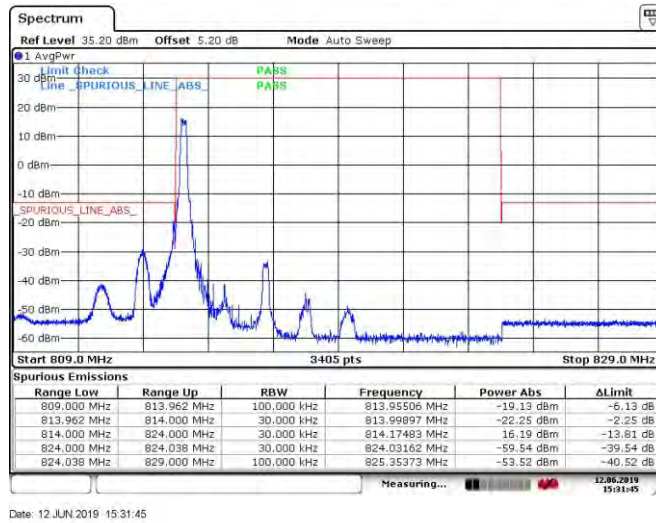


Band26_3MHz_QPSK_26775_15RB#0

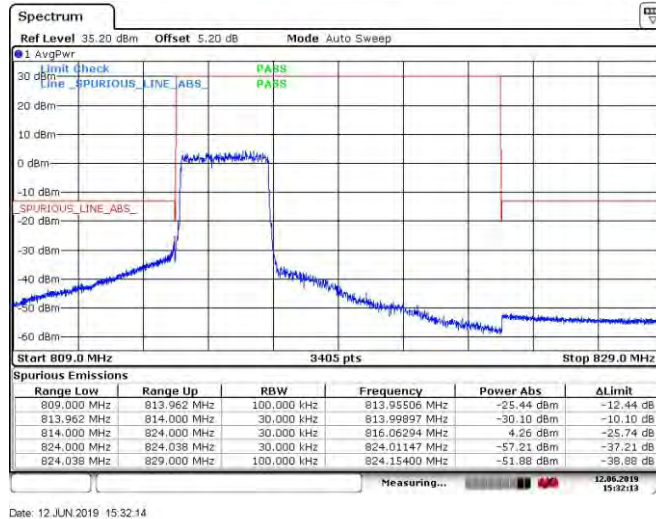


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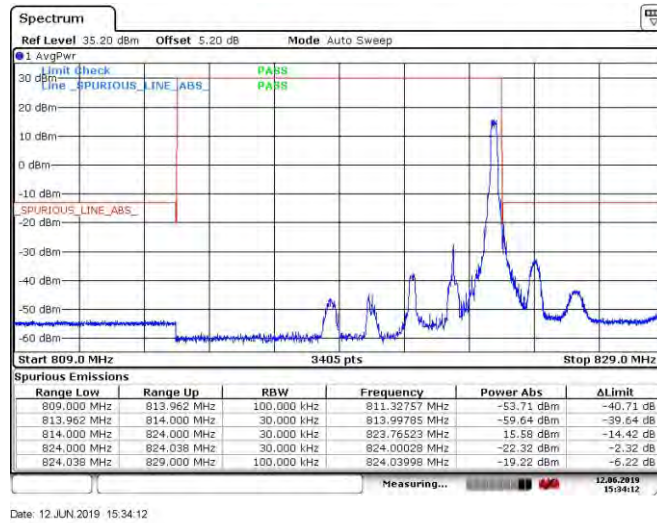


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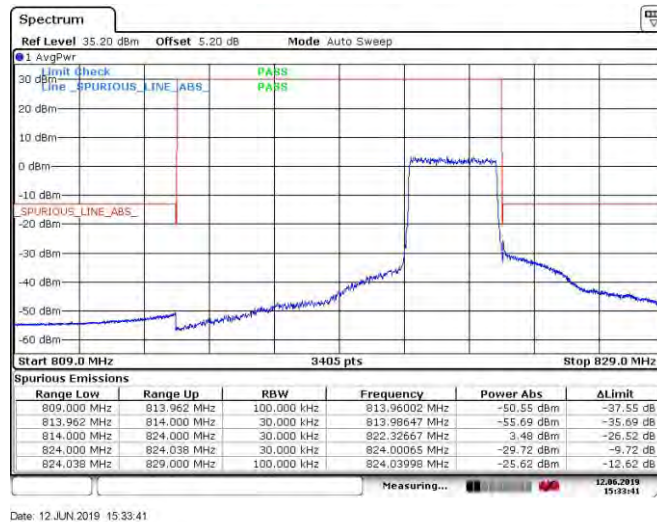
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Date: 12 JUN 2019 15:34:12

Band26_3MHz_16QAM_26775_15RB#0



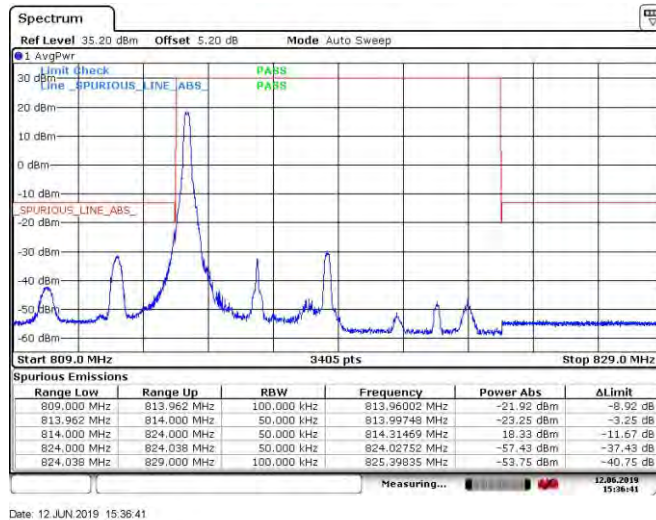
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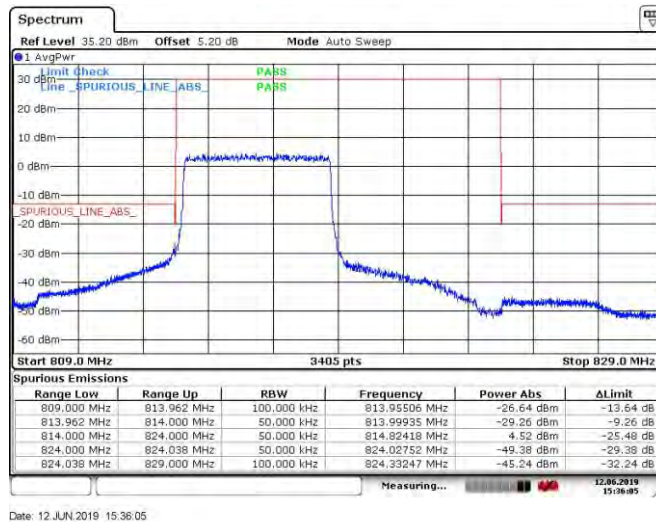
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Band26_5MHz_QPSK_26715_25RB#0

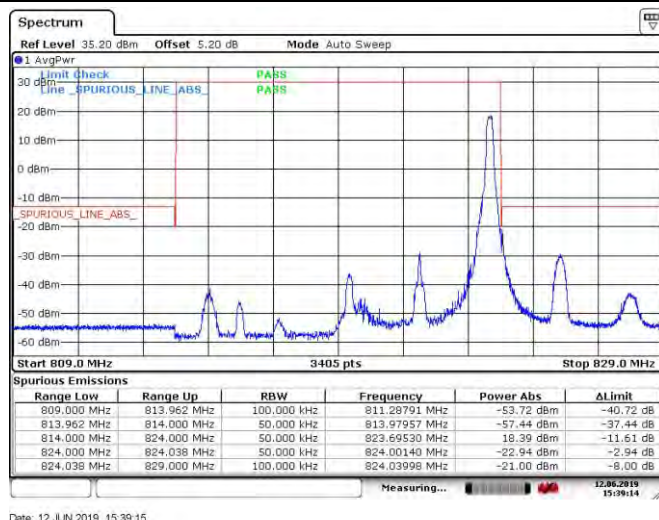


Band26_5MHz_QPSK_26765_1RB#24

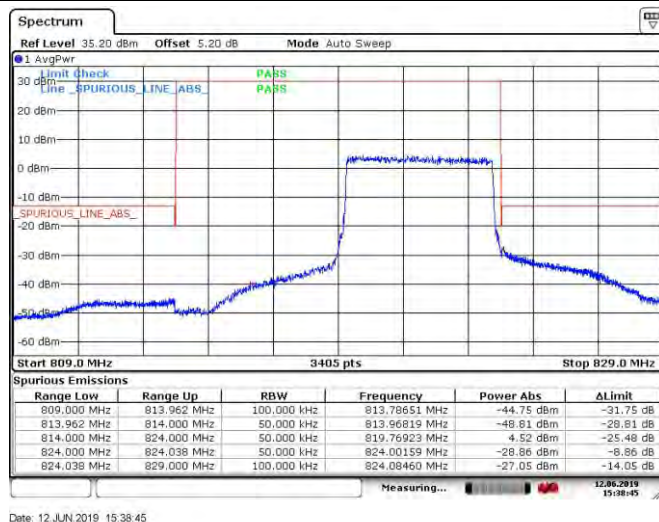


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Band26_5MHz_QPSK_26765_25RB#0

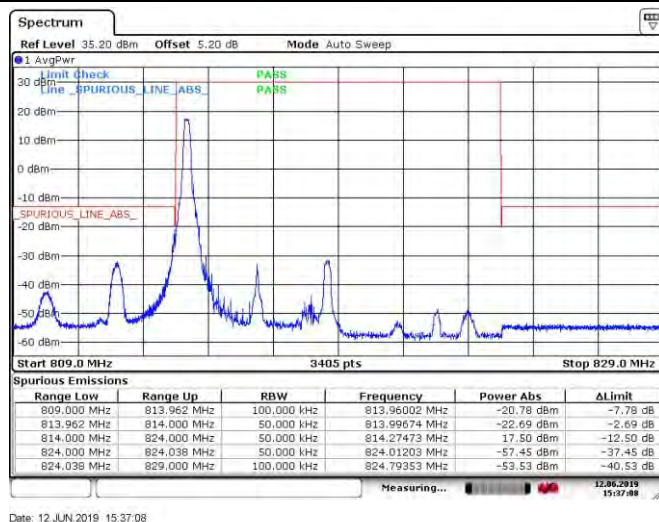


Band26_5MHz_16QAM_26715_1RB#0



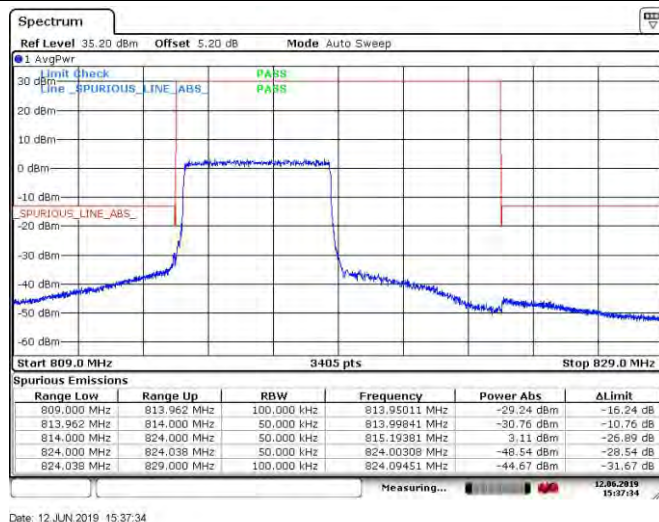
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Date: 12 JUN 2019 15:37:08

Band26_5MHz_16QAM_26715_25RB#0



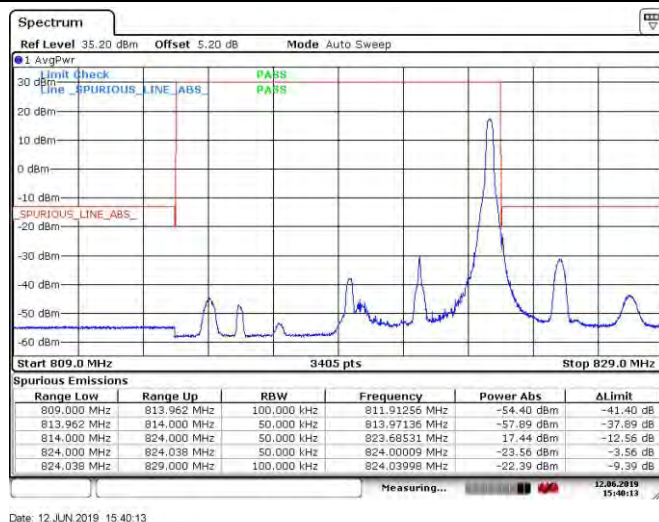
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Band26_5MHz_16QAM_26765_1RB#24

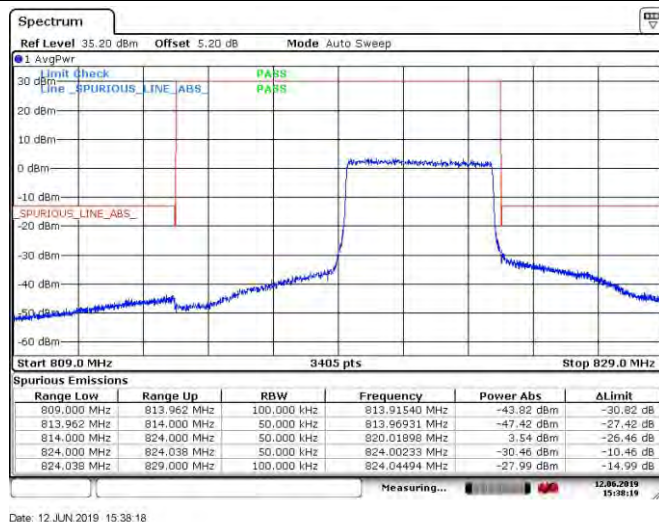


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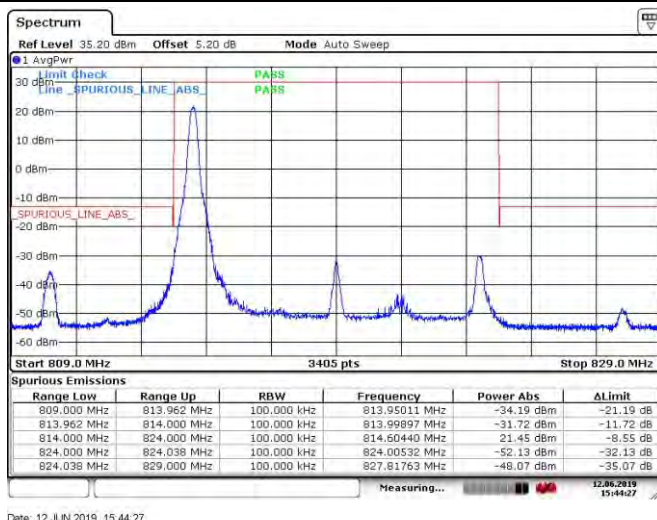


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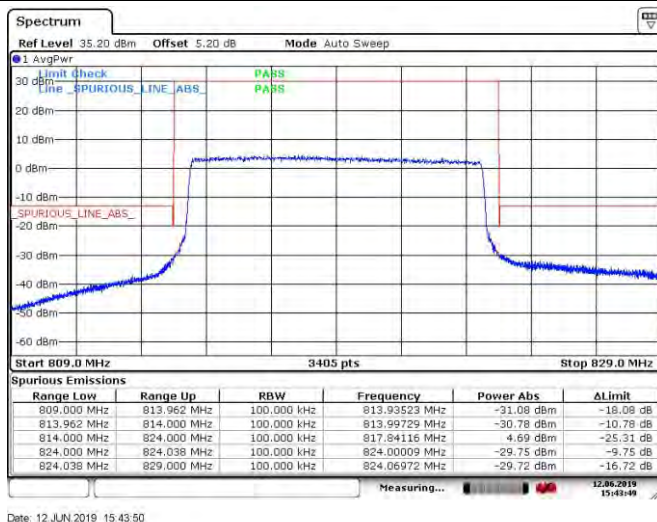


Band26_10MHz_QPSK_26740_1RB#0



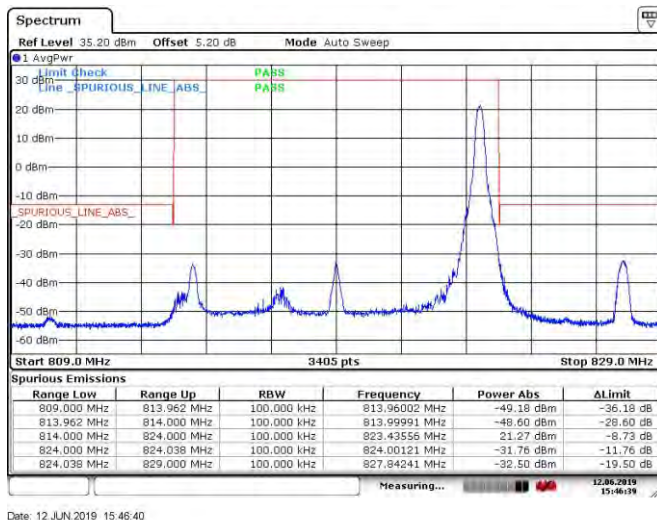


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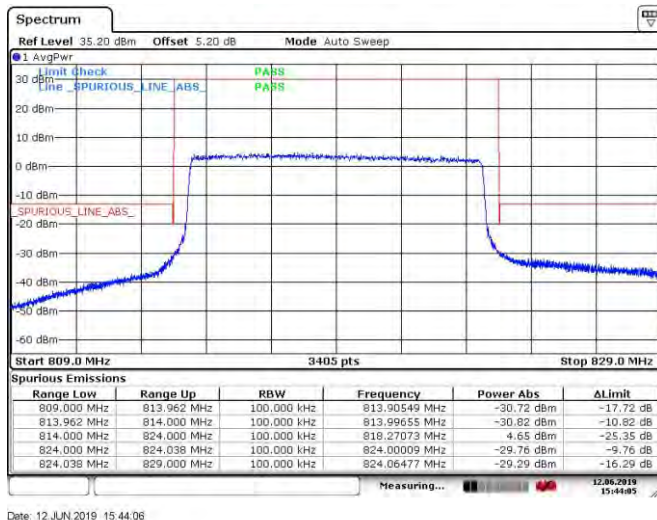
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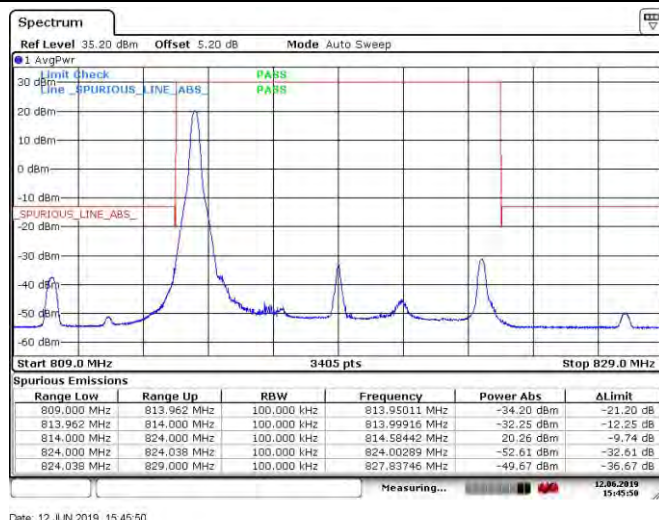
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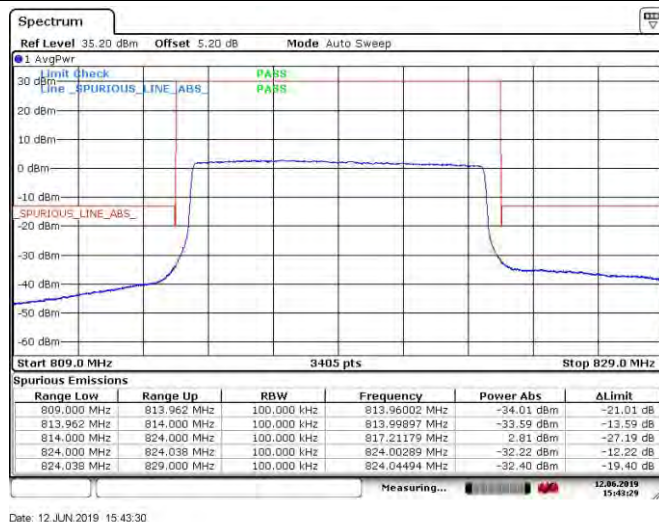
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Band26_10MHz_16QAM_26740_50RB#0

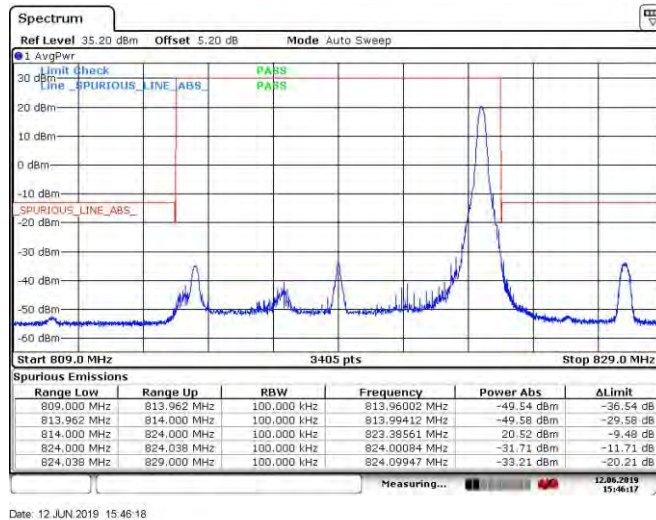


Band26_10MHz_16QAM_26740_1RB#49

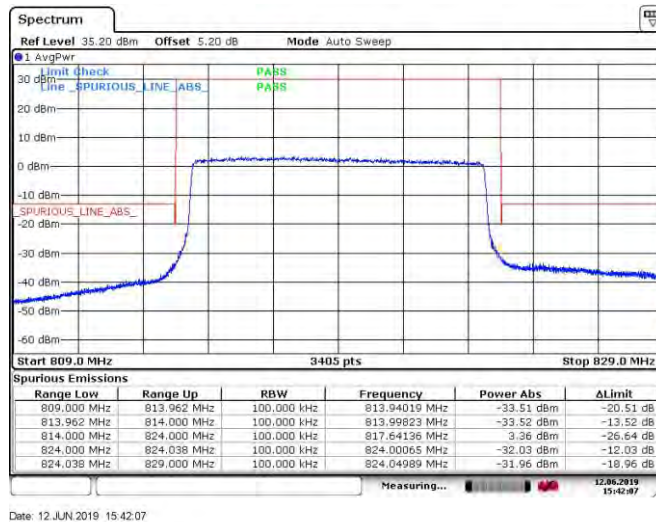


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Band26_10MHz_16QAM_26740_50RB#0



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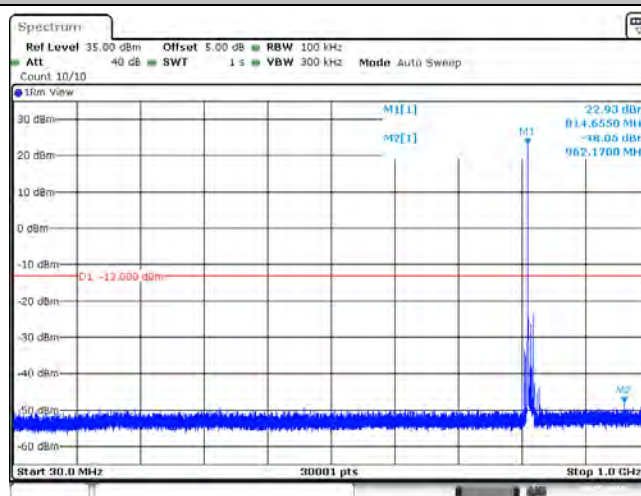
6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (\text{Span} / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: only the worst case data displayed in this report.

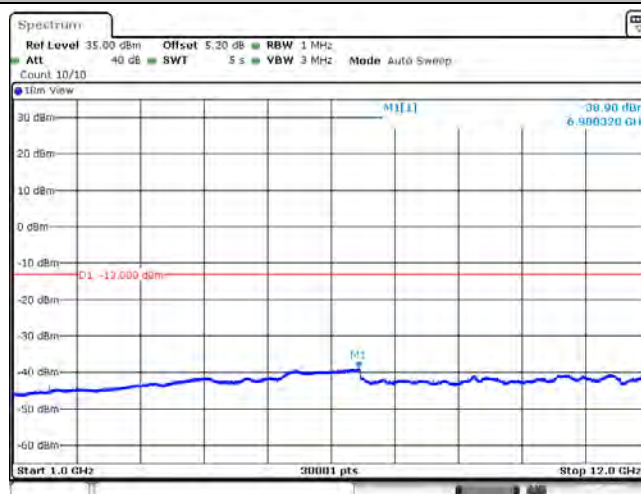
6.1. Test Plots

Band26_10MHz_QPSK_26740_1RB#0



Date: 30 MAY 2019 10:31:52

Band26_10MHz_QPSK_26740_1RB#0



Date: 30 MAY 2019 10:33:52

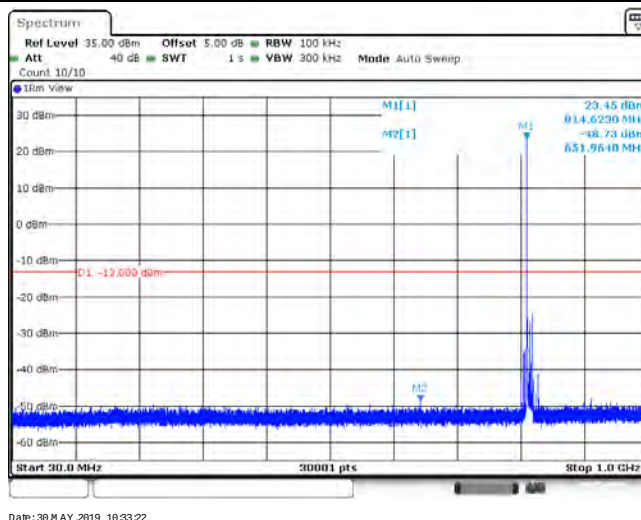
Band26_10MHz_16QAM_26740_1RB#0



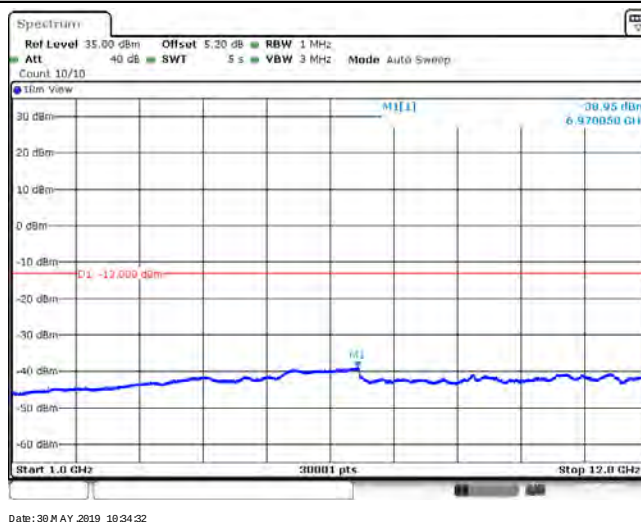
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Band26_10MHz_16QAM_26740_1RB#0





7. Field Strength of Spurious Radiation

7.1. Test BAND = LTE Band 26

7.1.1. Test Mode = LTE/TM1 10MHz

7.1.1.1. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
63.600000	-80.16	-13.00	67.16	Vertical
104.246667	-77.15	-13.00	64.15	Vertical
1654.000000	-57.17	-13.00	44.17	Vertical
2485.500000	-59.05	-13.00	46.05	Vertical
4109.062500	-66.66	-13.00	53.66	Vertical
6040.050000	-63.58	-13.00	50.58	Vertical
54.873333	-76.45	-13.00	63.45	Horizontal
104.293333	-80.06	-13.00	67.06	Horizontal
1654.500000	-58.78	-13.00	45.78	Horizontal
2488.500000	-59.16	-13.00	46.16	Horizontal
4023.750000	-67.01	-13.00	54.01	Horizontal
6166.312500	-65.07	-13.00	52.07	Horizontal

Remark:

The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.

We have tested all modulation and all Bandwidth , but only the worst case data presented in this report.





8. Frequency Stability

8.1. Frequency Vs Voltage

Voltage										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	VL	NT	-2.70	-0.003297	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	VN	NT	-1.50	-0.001832	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	VH	NT	-2.50	-0.003053	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	VL	NT	-0.50	-0.000611	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	VN	NT	0.30	0.000366	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	VH	NT	-3.20	-0.003907	±2.5	PASS

8.2. Frequency Vs Temperature

Temperature										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	NV	-30	-0.60	-0.000733	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	-20	-2.80	-0.003419	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	0	-0.80	-0.000977	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	10	-2.10	-0.002564	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	20	-3.20	-0.003907	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	30	-0.40	-0.000488	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	40	-3.20	-0.003907	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	50	-4.30	-0.005250	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	-30	-2.20	-0.002686	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	-20	-1.50	-0.001832	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	0	-2.70	-0.003297	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	10	-1.10	-0.001343	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	20	-3.00	-0.003663	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	30	-3.90	-0.004762	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	40	-1.80	-0.002198	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	50	-2.10	-0.002564	±2.5	PASS

The End



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