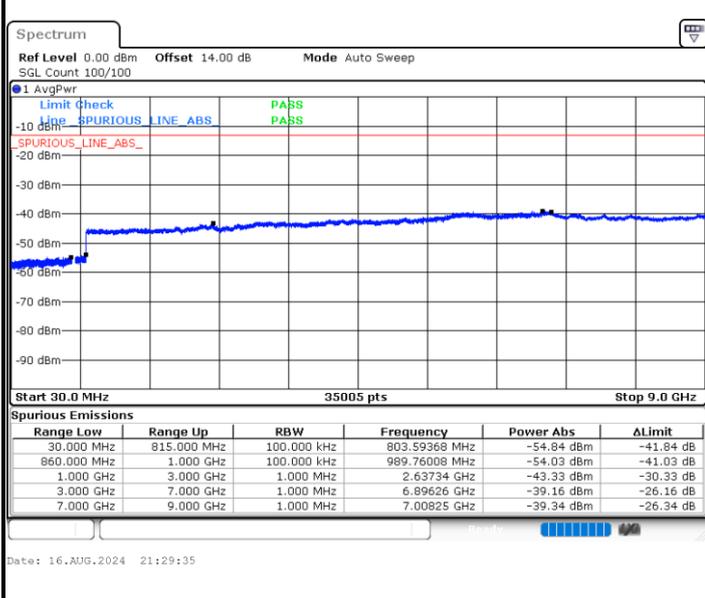


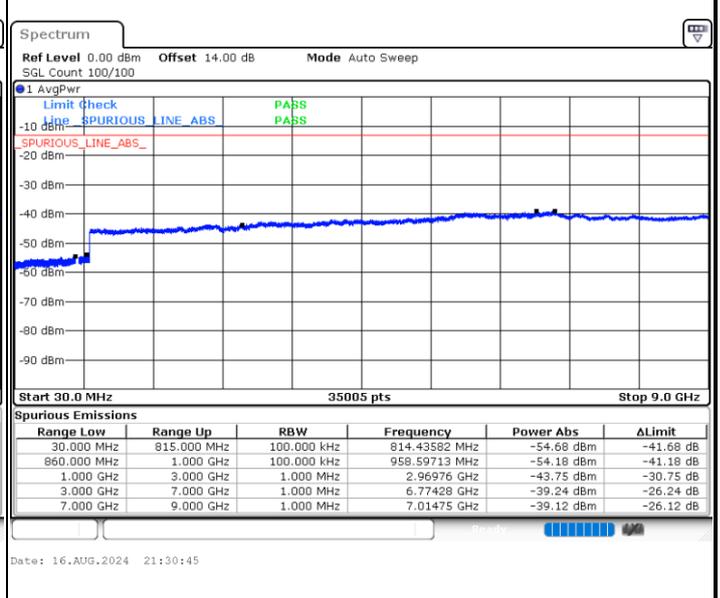


LTE Band 26 / 10MHz

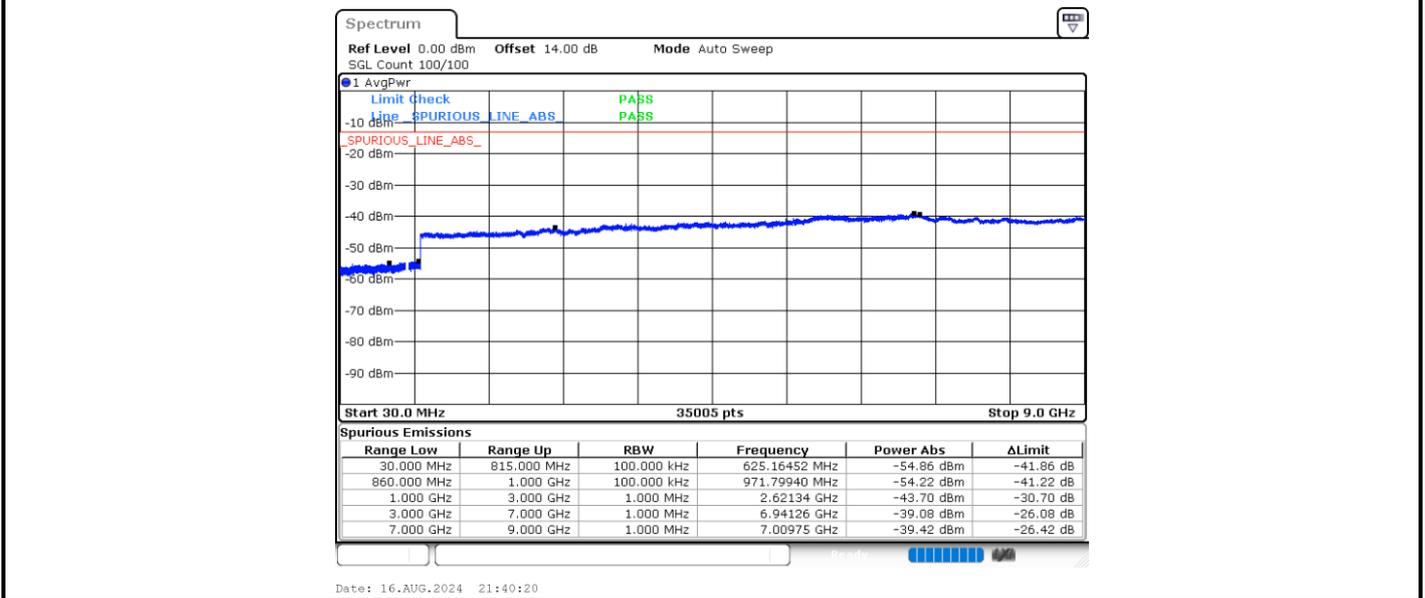
Lowest Channel / QPSK



Middle Channel / QPSK



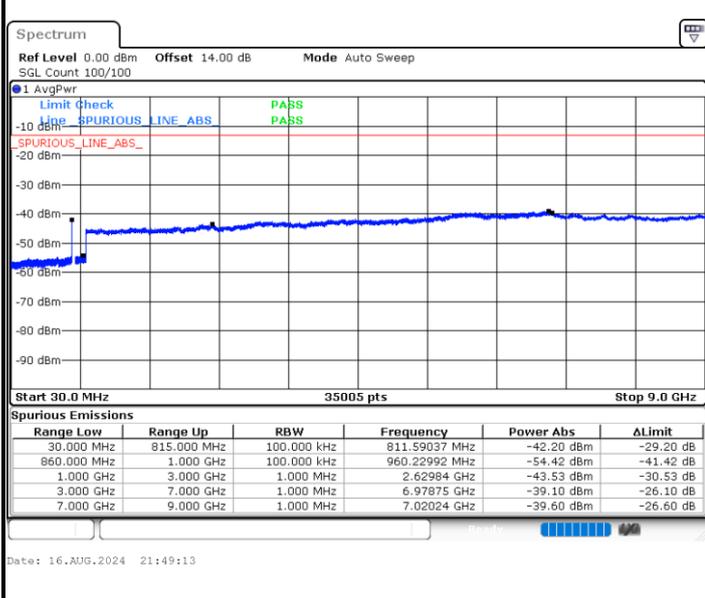
Highest Channel / QPSK



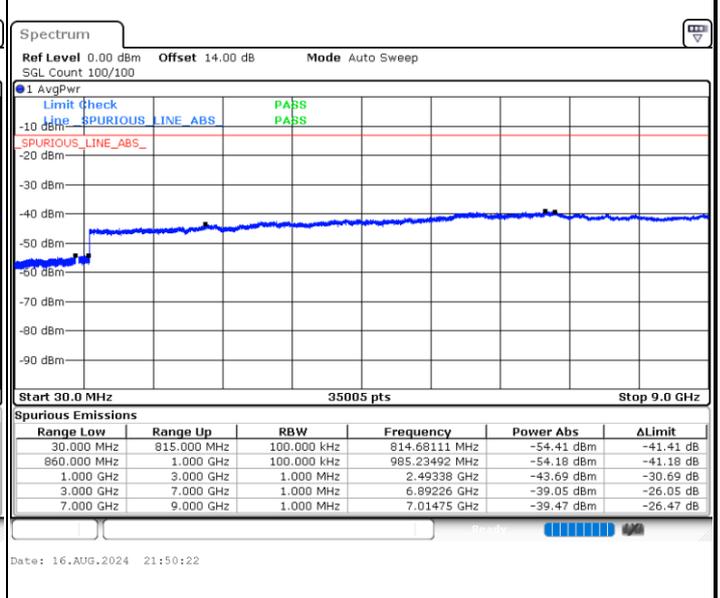


LTE Band 26 / 15MHz

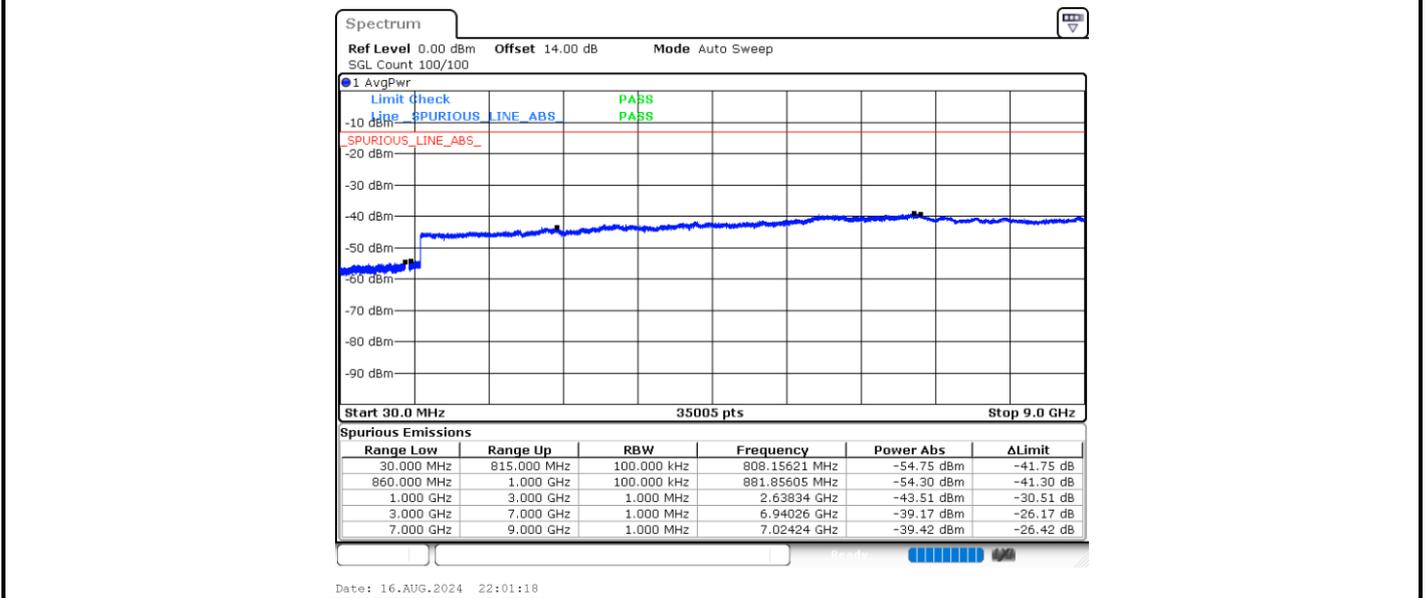
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK





Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0116	PASS
40	Normal Voltage	0.0012	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0019	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0038	
-20	Normal Voltage	0.0115	
-30	Normal Voltage	0.0049	
20	Maximum Voltage	0.0016	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0044	

Note:

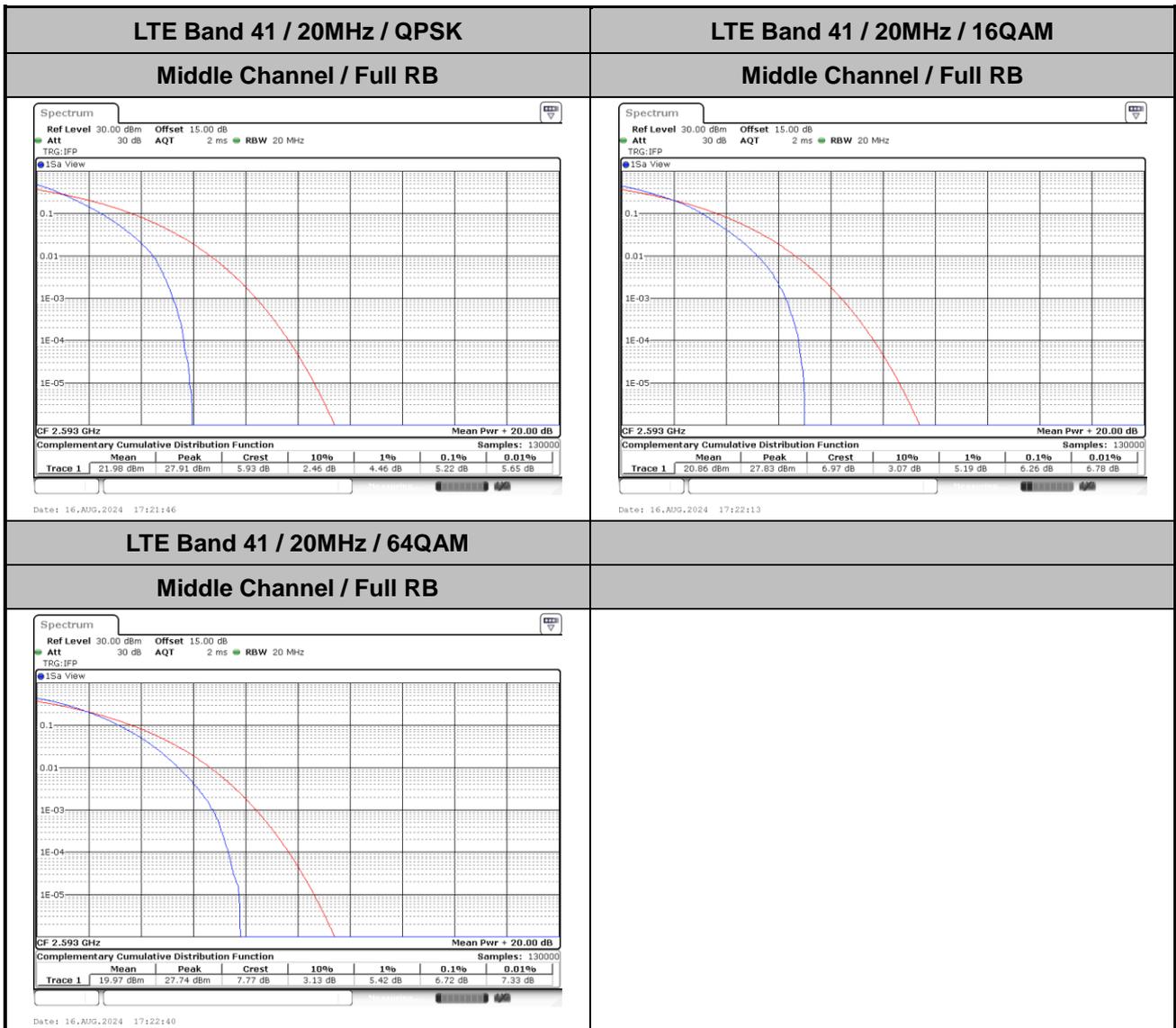
1. Normal Voltage = 3.91 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41

Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.22	6.26	6.72	PASS



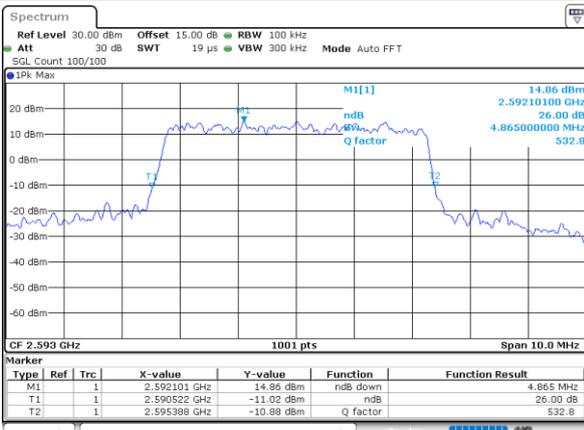


26dB Bandwidth

Mode	LTE Band 41 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.87	4.98	9.65	9.63	14.27	14.18	18.86	18.62

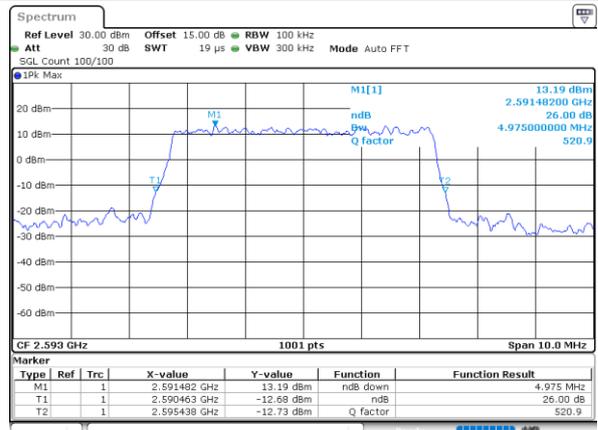
LTE Band 41

Middle Channel / 5MHz / QPSK



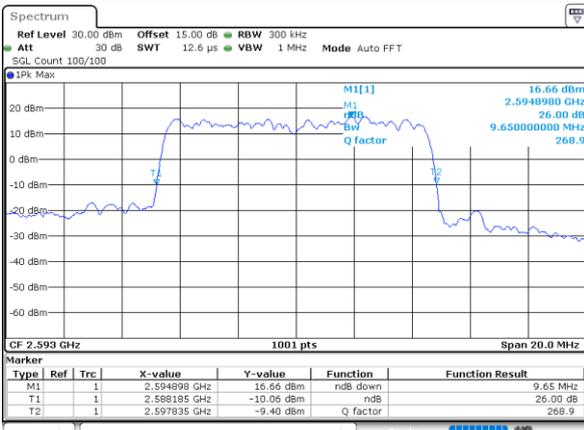
Date: 16_AUG_2024 16:32:08

Middle Channel / 5MHz / 16QAM



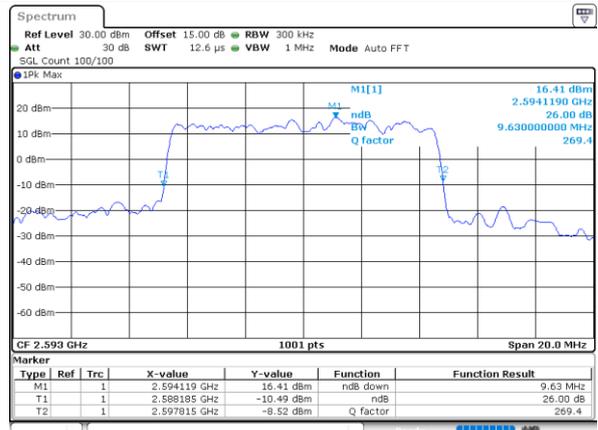
Date: 16_AUG_2024 16:32:47

Middle Channel / 10MHz / QPSK

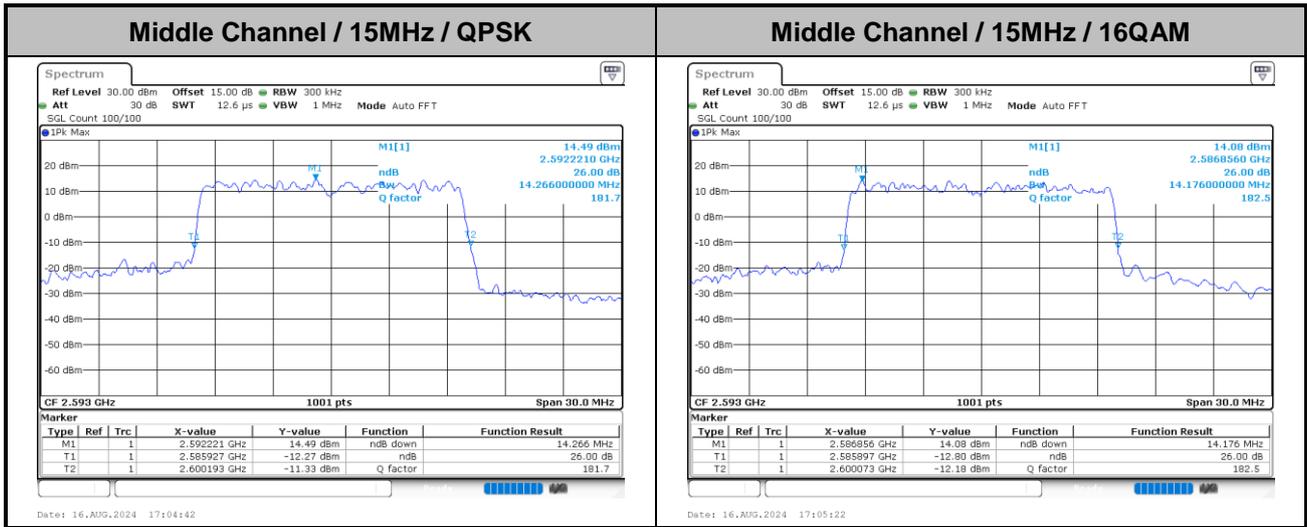


Date: 16_AUG_2024 16:49:02

Middle Channel / 10MHz / 16QAM



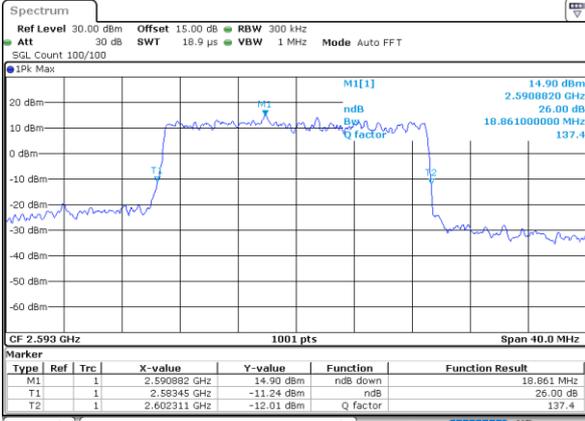
Date: 16_AUG_2024 16:49:41





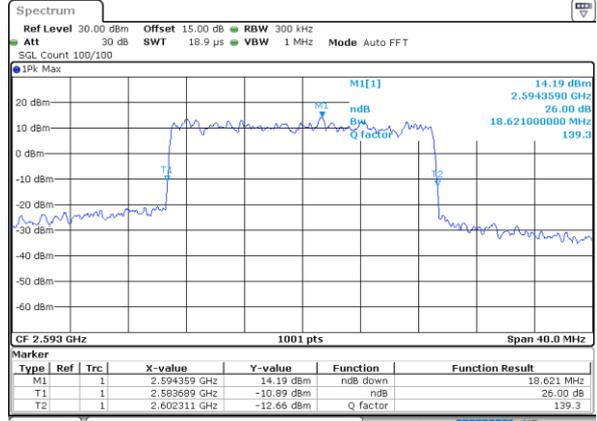
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 16_AUG_2024 17:20:40

Middle Channel / 20MHz / 16QAM



Date: 16_AUG_2024 17:21:19

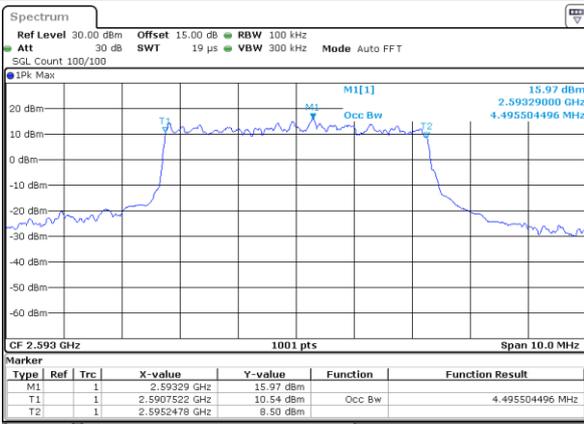


Occupied Bandwidth

Mode	LTE Band 41 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.50	4.51	9.13	9.05	13.43	13.40	17.82	17.90

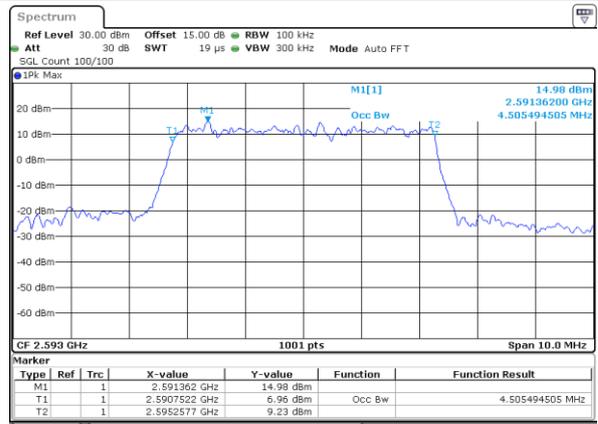
LTE Band 41

Middle Channel / 5MHz / QPSK



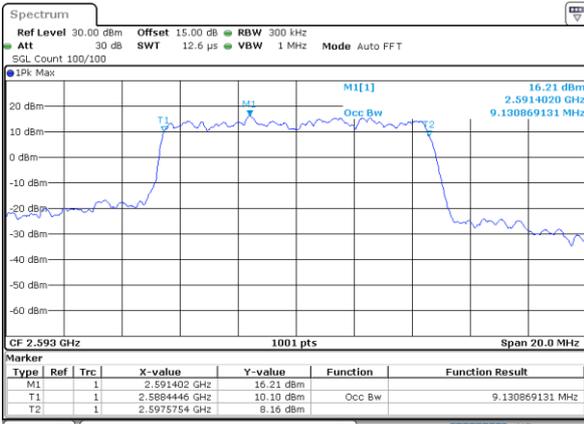
Date: 16_AUG_2024 16:31:54

Middle Channel / 5MHz / 16QAM



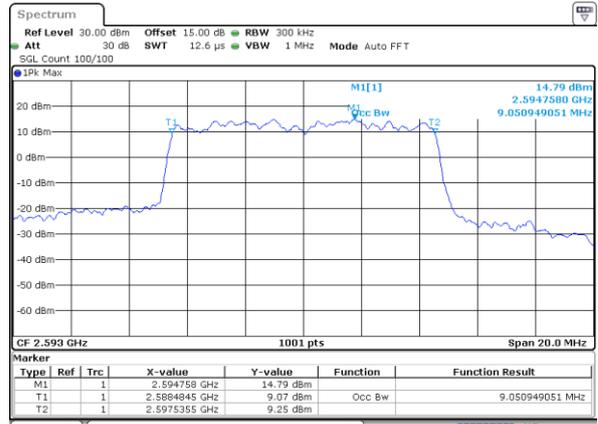
Date: 16_AUG_2024 16:32:33

Middle Channel / 10MHz / QPSK

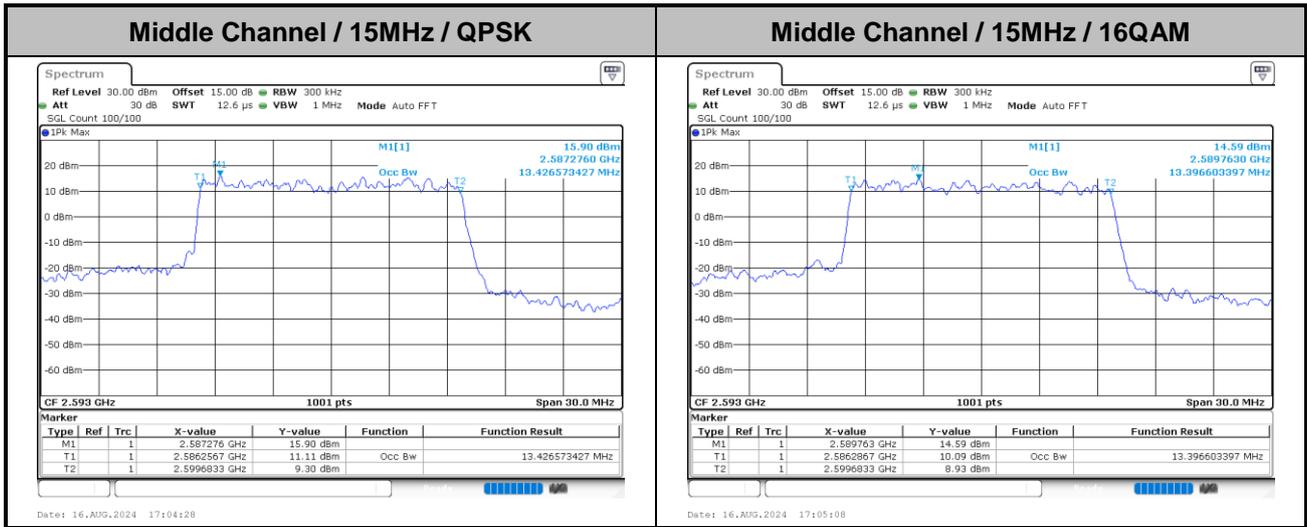


Date: 16_AUG_2024 16:48:47

Middle Channel / 10MHz / 16QAM



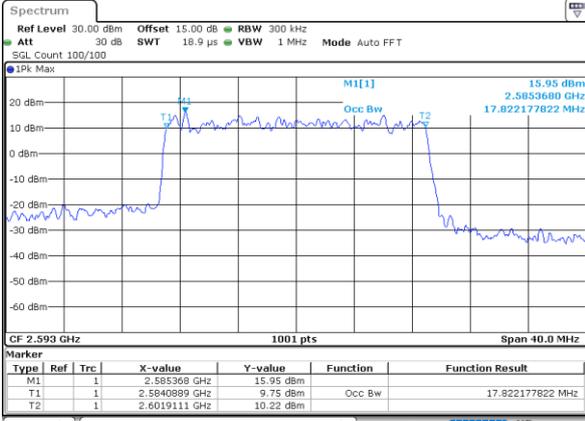
Date: 16_AUG_2024 16:49:27





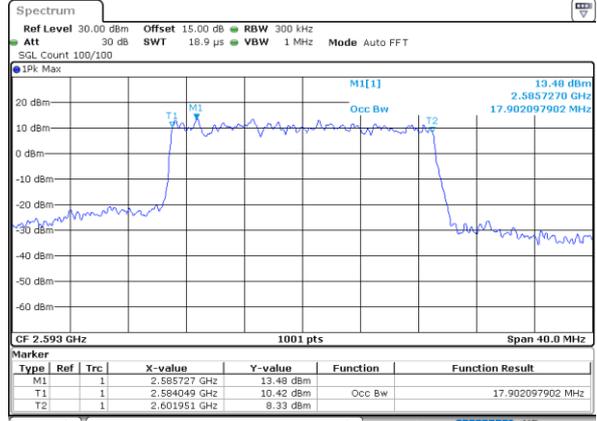
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 16.AUG.2024 17:20:26

Middle Channel / 20MHz / 16QAM



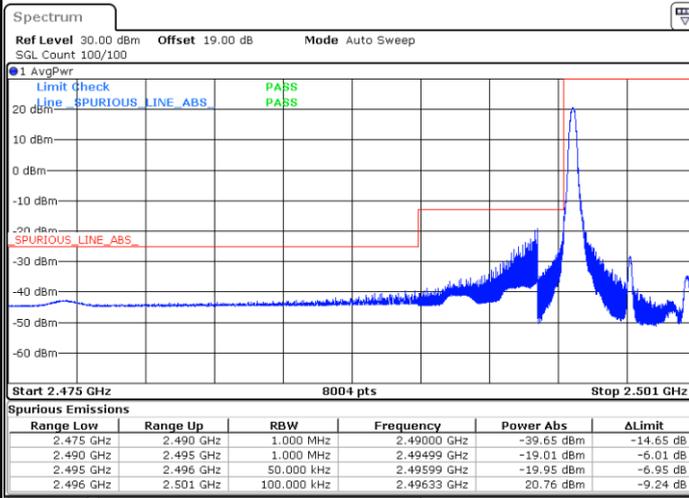
Date: 16.AUG.2024 17:21:05



Conducted Band Edge

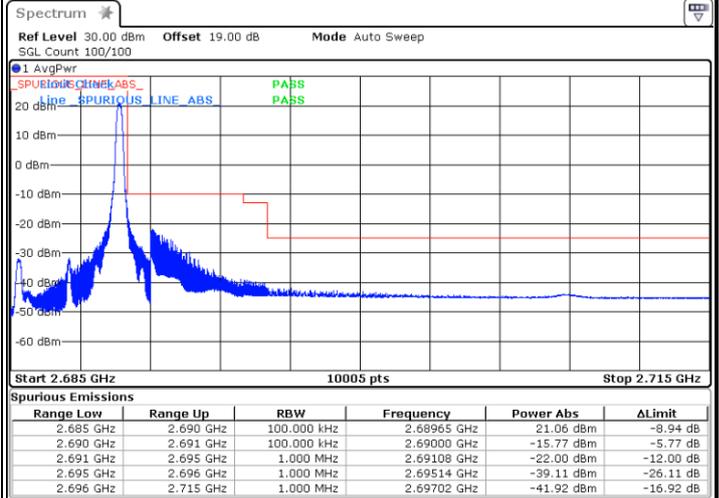
LTE Band 41 / 5MHz / QPSK

Lowest Band Edge / 1 RB



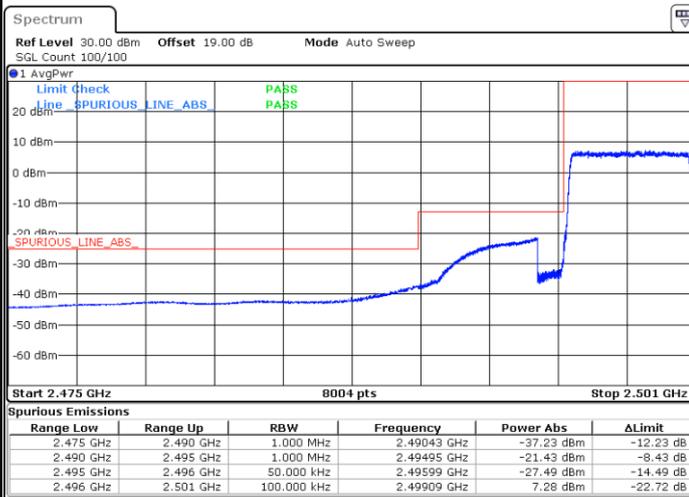
Date: 16.AUG.2024 16:24:52

Highest Band Edge / 1 RB



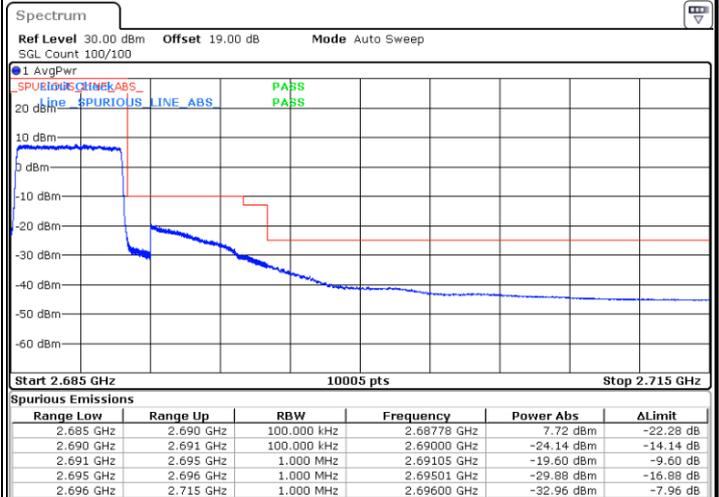
Date: 17.AUG.2024 13:14:12

Lowest Band Edge / Full RB



Date: 16.AUG.2024 16:29:08

Highest Band Edge / Full RB

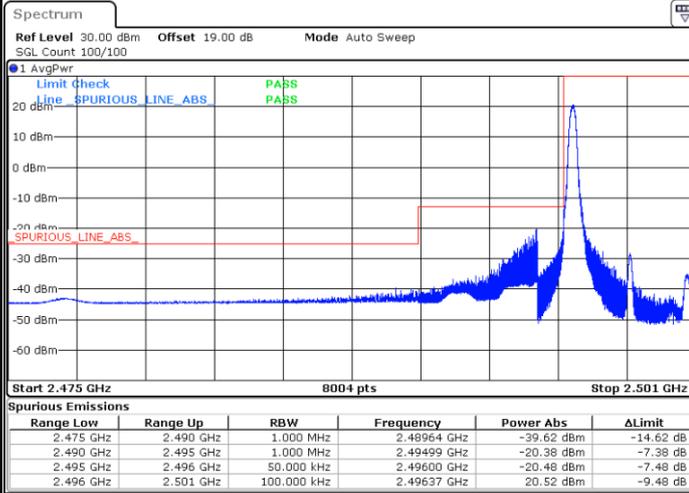


Date: 17.AUG.2024 13:20:06



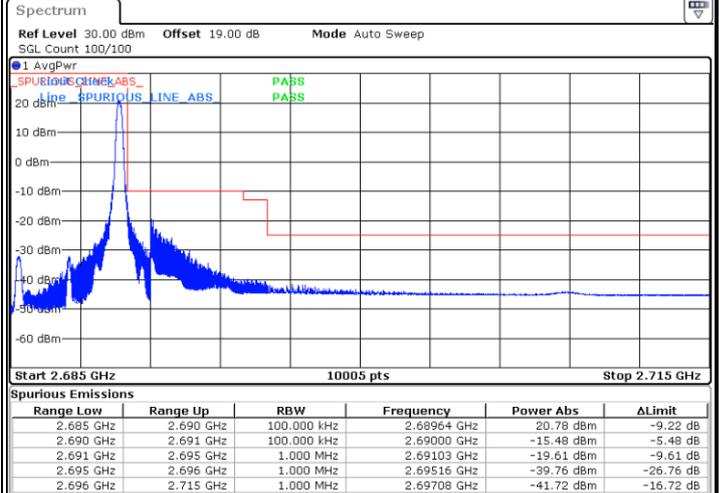
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



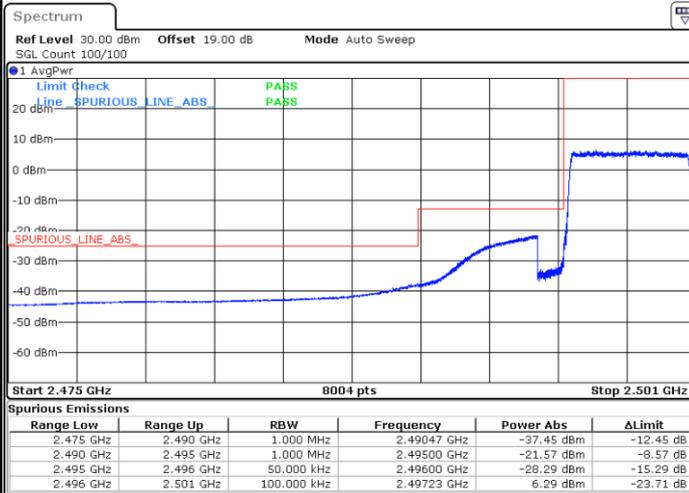
Date: 16.AUG.2024 16:25:43

Highest Band Edge / 1 RB



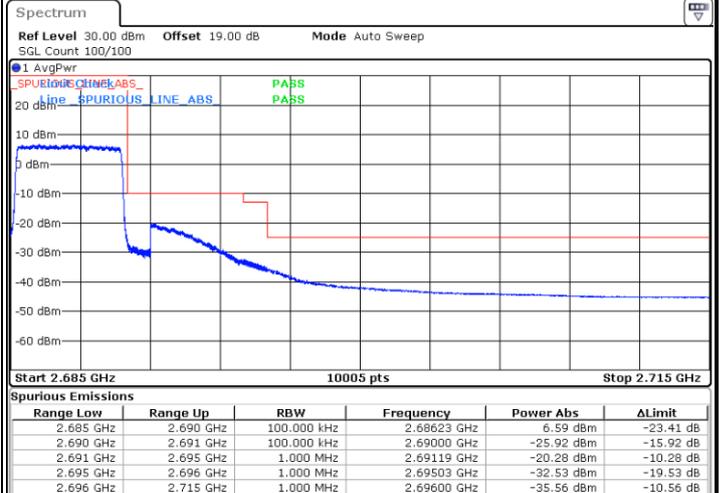
Date: 17.AUG.2024 13:15:31

Lowest Band Edge / Full RB



Date: 16.AUG.2024 16:28:17

Highest Band Edge / Full RB

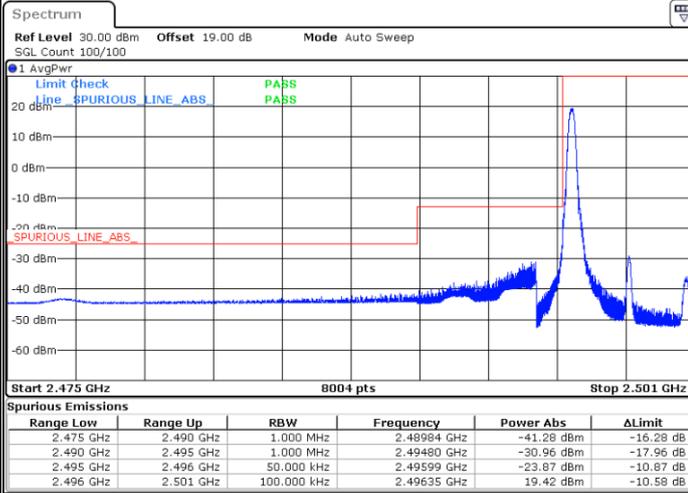


Date: 17.AUG.2024 13:19:11



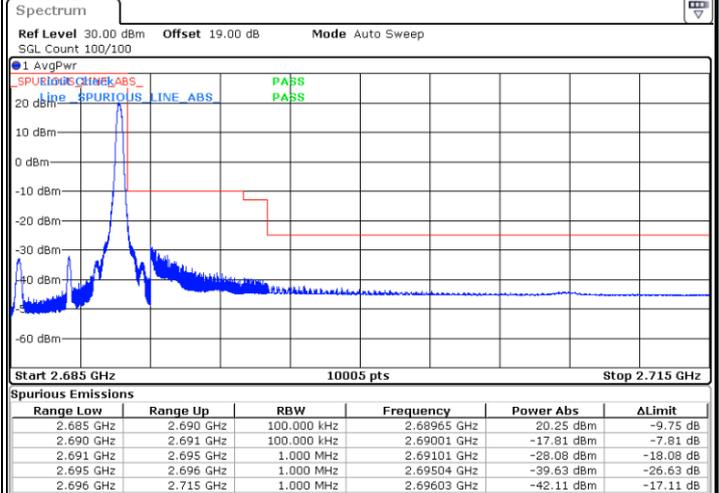
LTE Band 41 / 5MHz / 64QAM

Lowest Band Edge / 1RB



Date: 16.AUG.2024 16:26:34

Highest Band Edge / 1 RB



Date: 17.AUG.2024 13:16:34

Lowest Band Edge / Full RB



Date: 16.AUG.2024 16:27:25

Highest Band Edge / Full RB

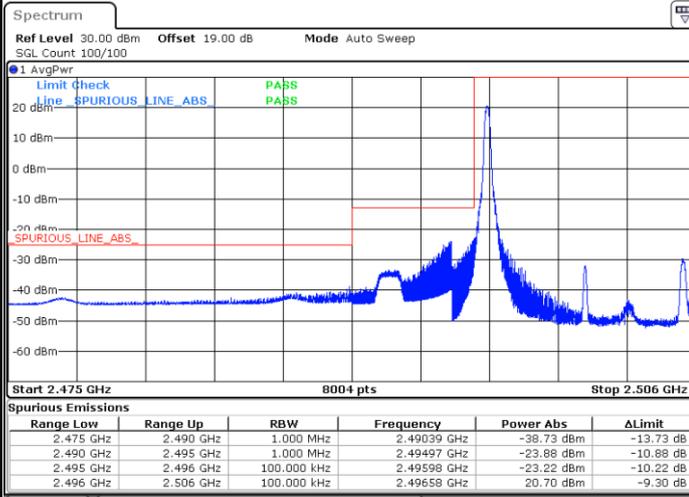


Date: 17.AUG.2024 13:18:09



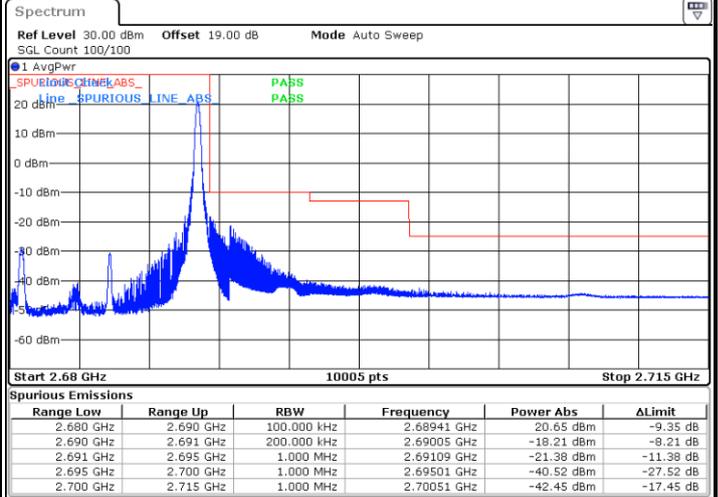
LTE Band 41 / 10MHz / QPSK

Lowest Band Edge / 1 RB



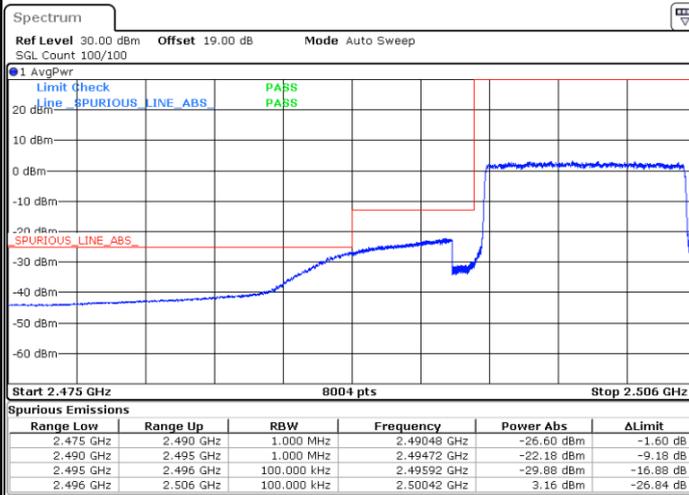
Date: 16.AUG.2024 16:41:46

Highest Band Edge / 1 RB



Date: 16.AUG.2024 16:50:31

Lowest Band Edge / Full RB



Date: 21.AUG.2024 11:20:48

Highest Band Edge / Full RB

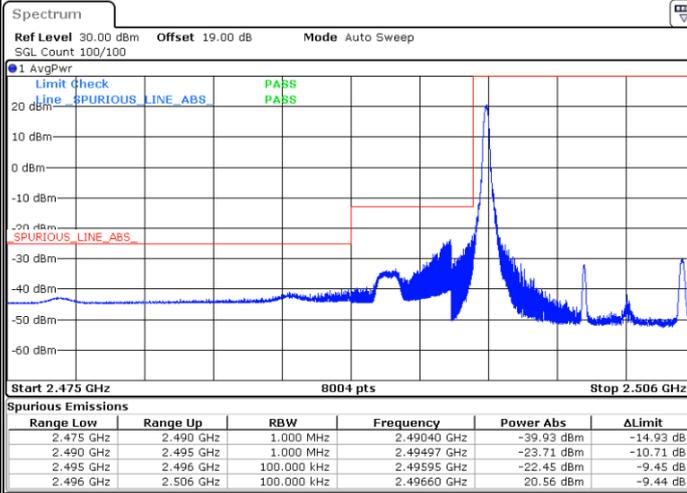


Date: 16.AUG.2024 16:54:44



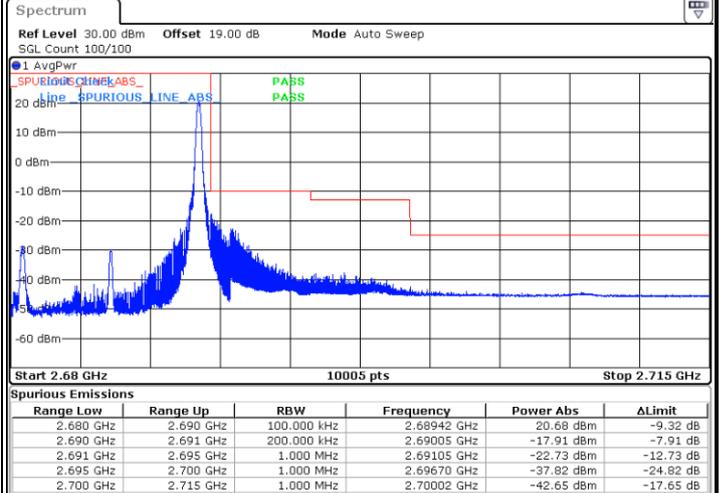
LTE Band 41 / 10MHz / 16QAM

Lowest Band Edge / 1RB



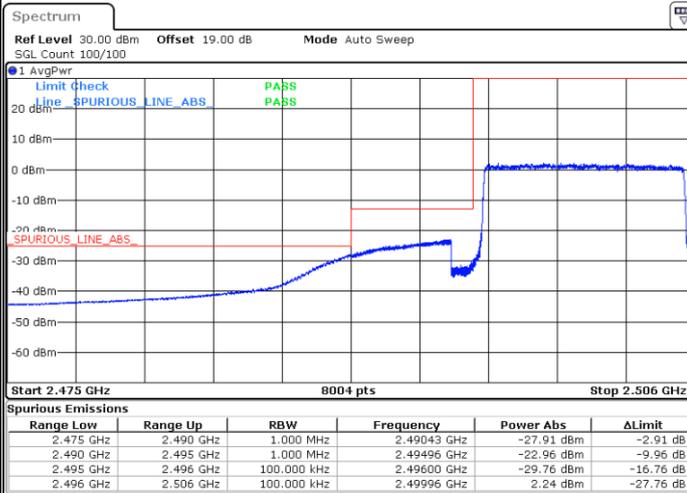
Date: 16.AUG.2024 16:42:37

Highest Band Edge / 1 RB



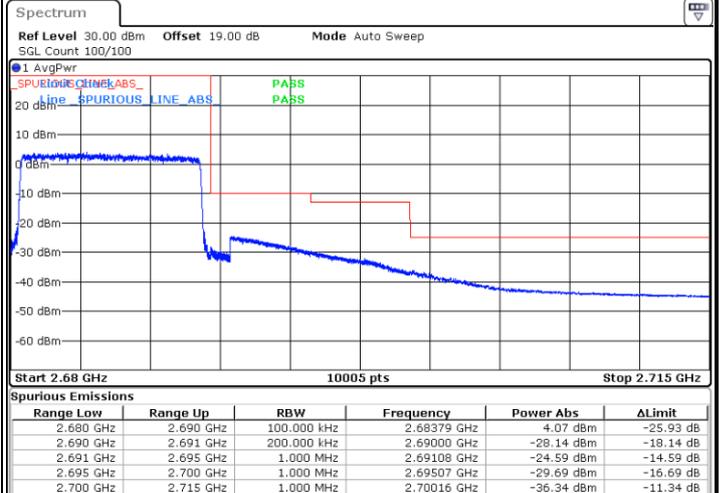
Date: 16.AUG.2024 16:51:21

Lowest Band Edge / Full RB



Date: 21.AUG.2024 11:23:34

Highest Band Edge / Full RB

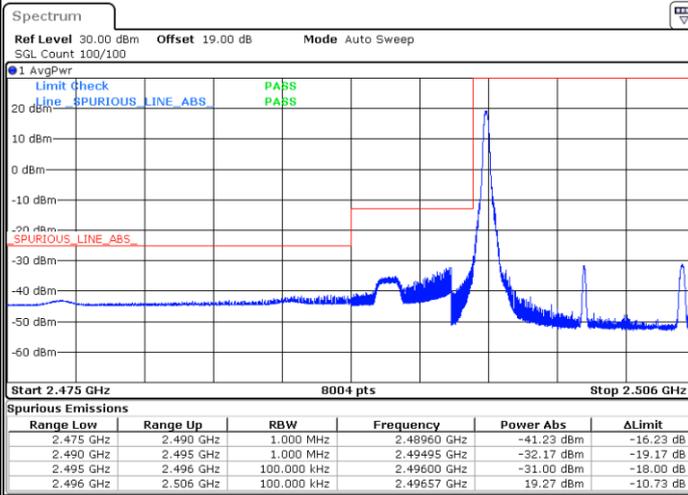


Date: 16.AUG.2024 16:53:53



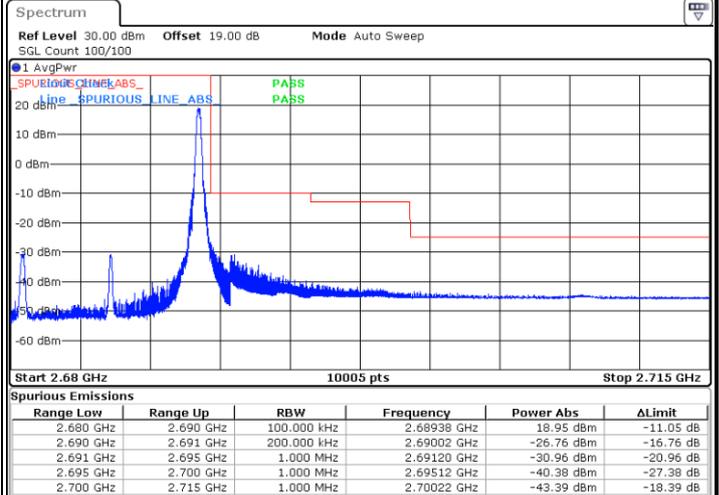
LTE Band 41 / 10MHz / 64QAM

Lowest Band Edge / 1RB



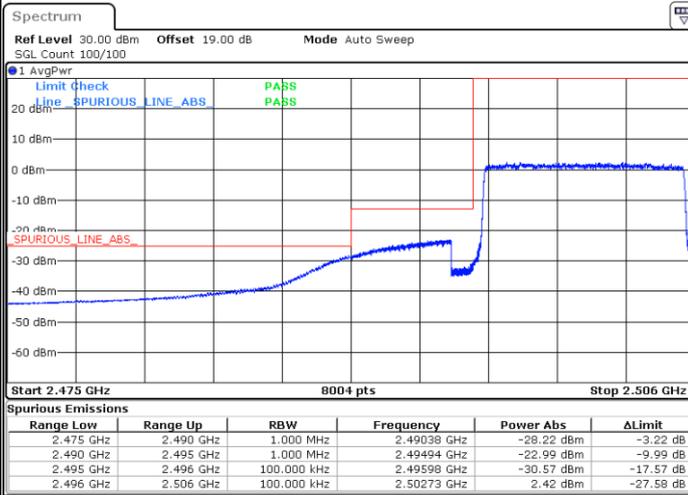
Date: 16.AUG.2024 16:43:28

Highest Band Edge / 1 RB



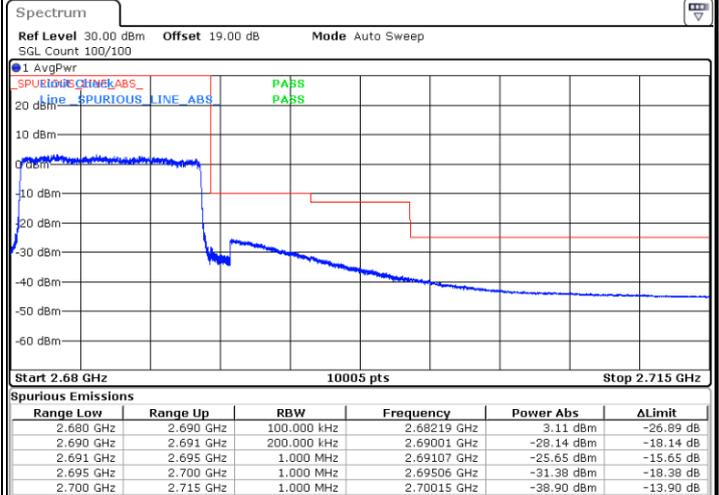
Date: 16.AUG.2024 16:52:12

Lowest Band Edge / Full RB



Date: 16.AUG.2024 16:44:19

Highest Band Edge / Full RB

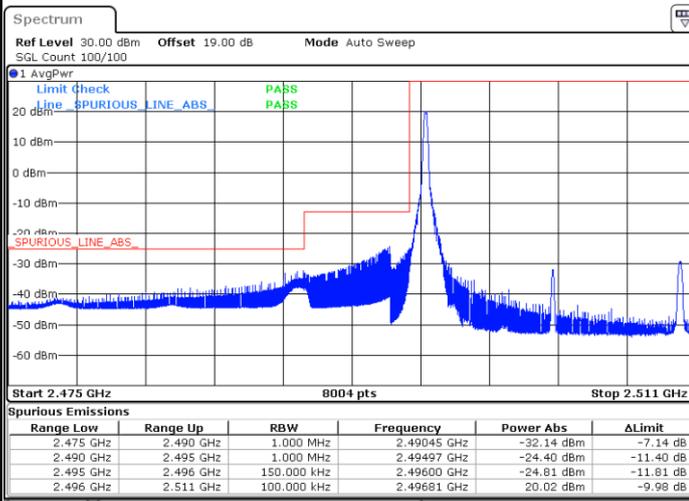


Date: 16.AUG.2024 16:53:03



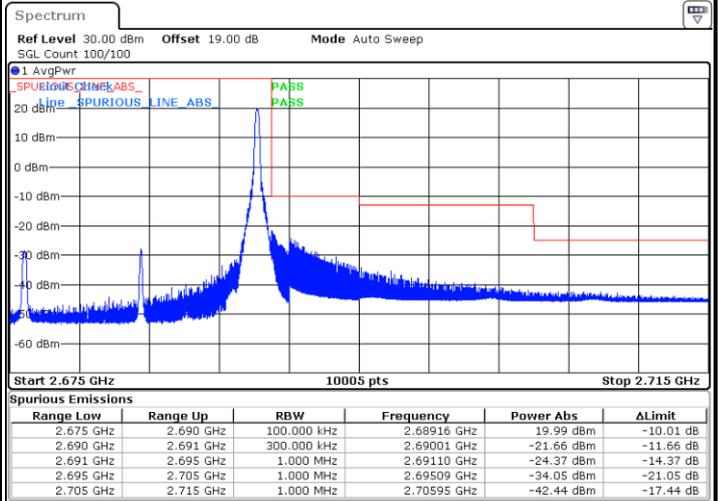
LTE Band 41 / 15MHz / QPSK

Lowest Band Edge / 1 RB



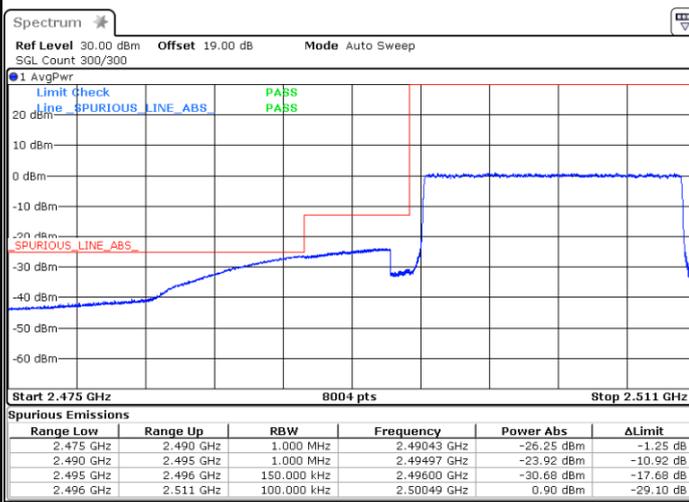
Date: 16.AUG.2024 16:57:28

Highest Band Edge / 1 RB



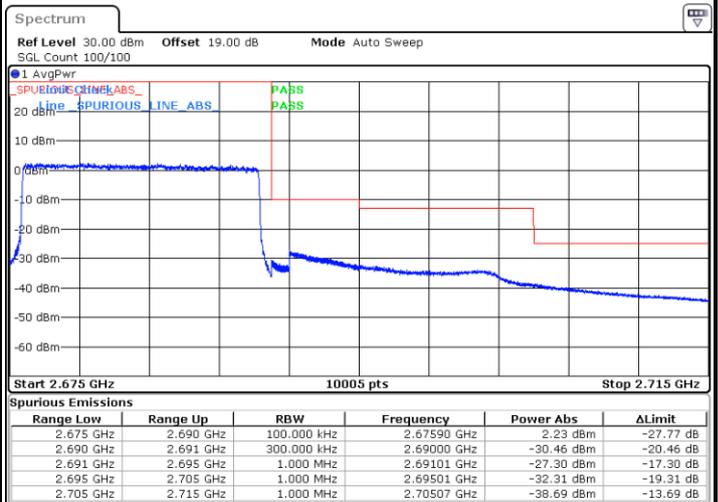
Date: 16.AUG.2024 17:06:14

Lowest Band Edge / Full RB



Date: 21.AUG.2024 11:37:03

Highest Band Edge / Full RB

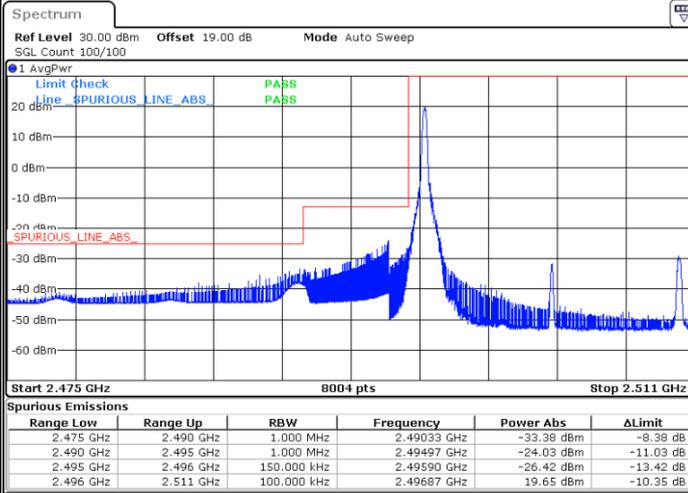


Date: 16.AUG.2024 17:10:41



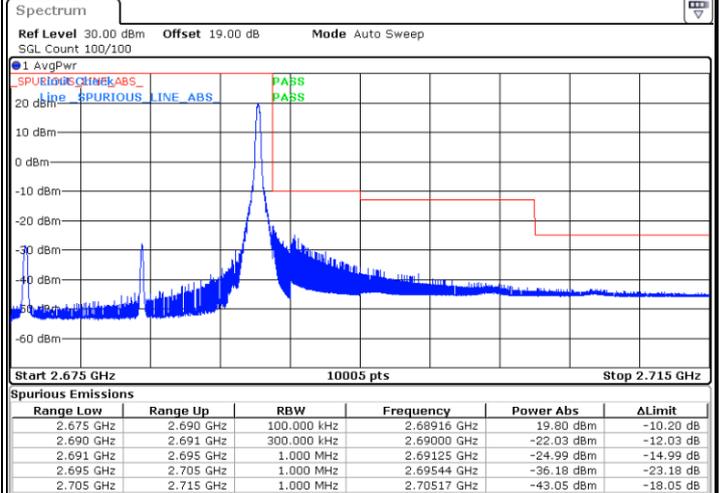
LTE Band 41 / 15MHz / 16QAM

Lowest Band Edge / 1RB



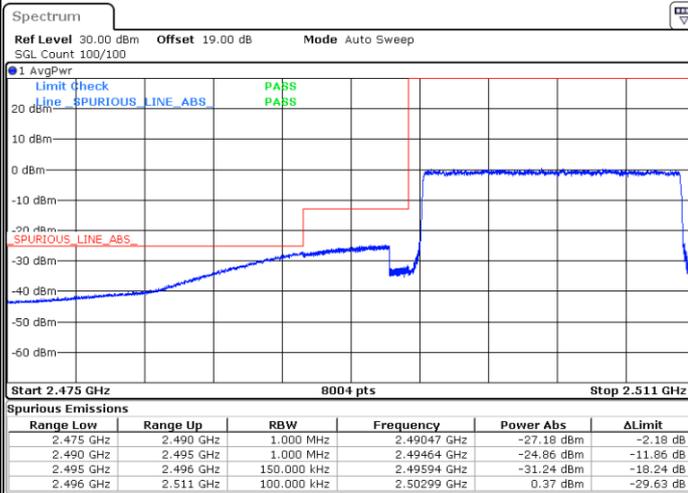
Date: 16.AUG.2024 16:58:19

Highest Band Edge / 1 RB



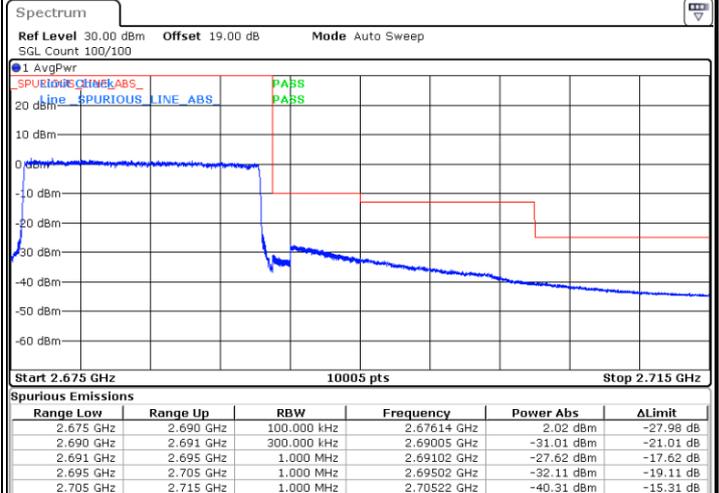
Date: 16.AUG.2024 17:07:08

Lowest Band Edge / Full RB



Date: 21.AUG.2024 11:31:54

Highest Band Edge / Full RB

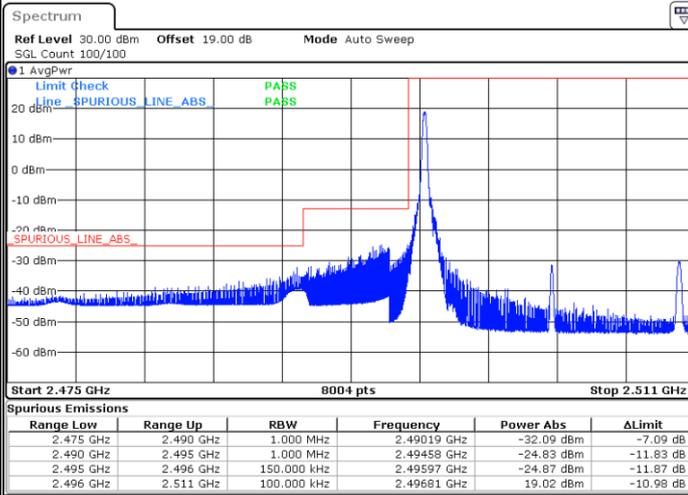


Date: 16.AUG.2024 17:09:48



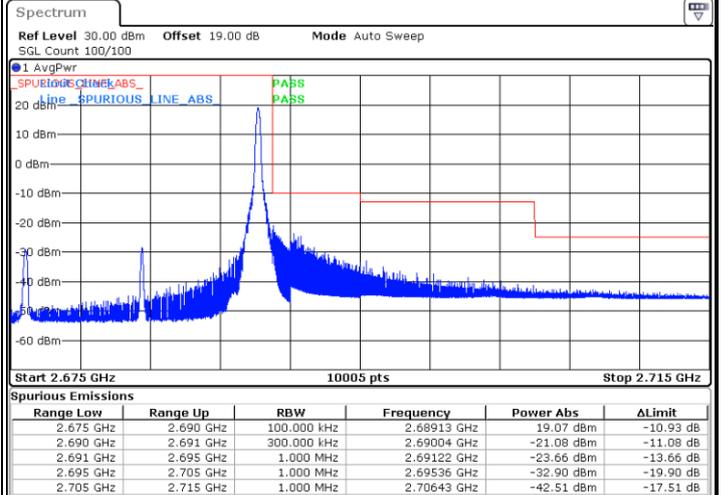
LTE Band 41 / 15MHz / 64QAM

Lowest Band Edge / 1RB



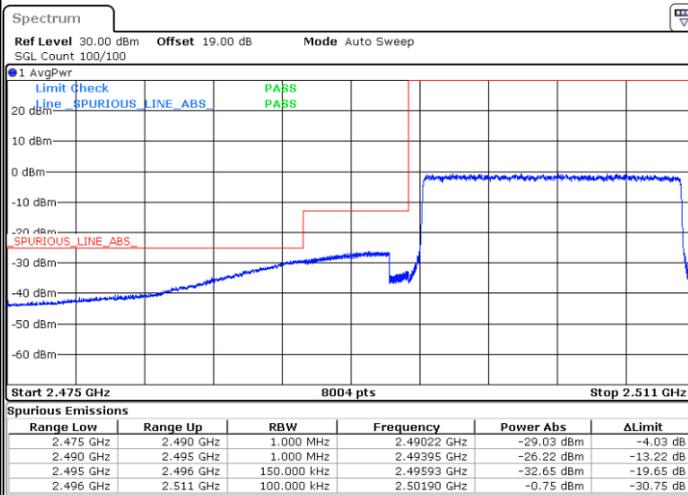
Date: 16.AUG.2024 16:59:09

Highest Band Edge / 1 RB



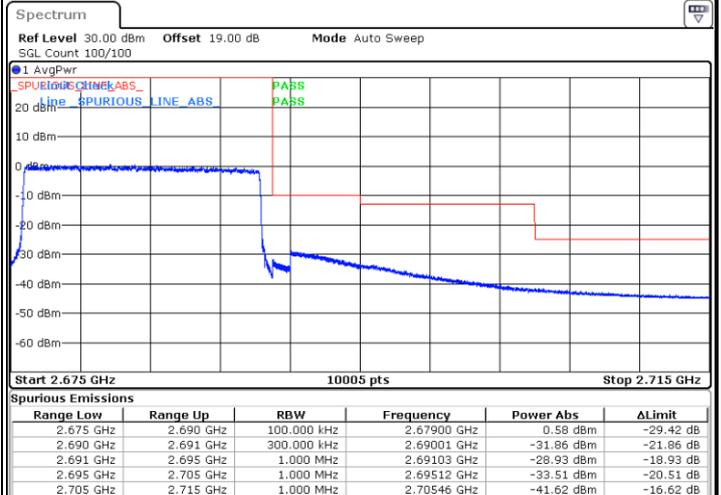
Date: 16.AUG.2024 17:08:01

Lowest Band Edge / Full RB



Date: 21.AUG.2024 11:33:28

Highest Band Edge / Full RB

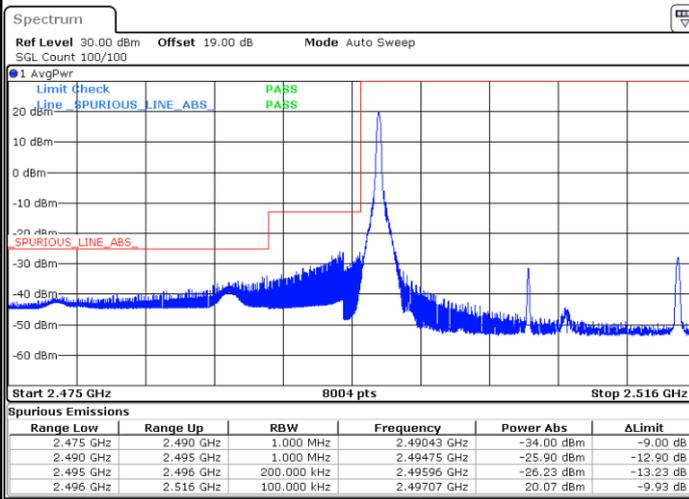


Date: 16.AUG.2024 17:08:54



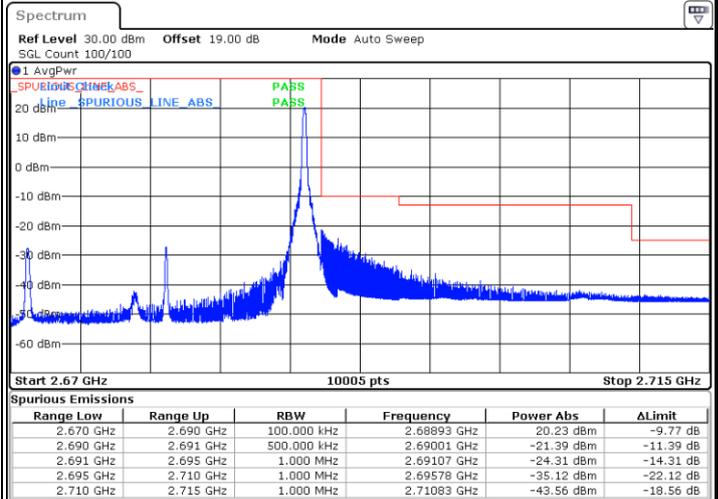
LTE Band 41 / 20MHz / QPSK

Lowest Band Edge / 1 RB



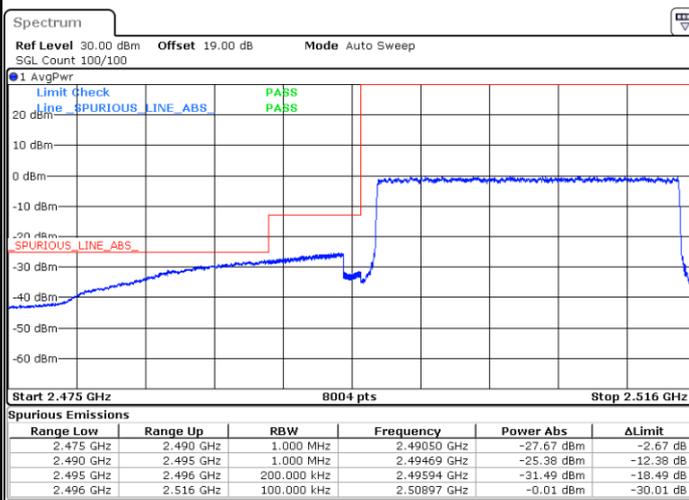
Date: 16.AUG.2024 17:13:25

Highest Band Edge / 1 RB



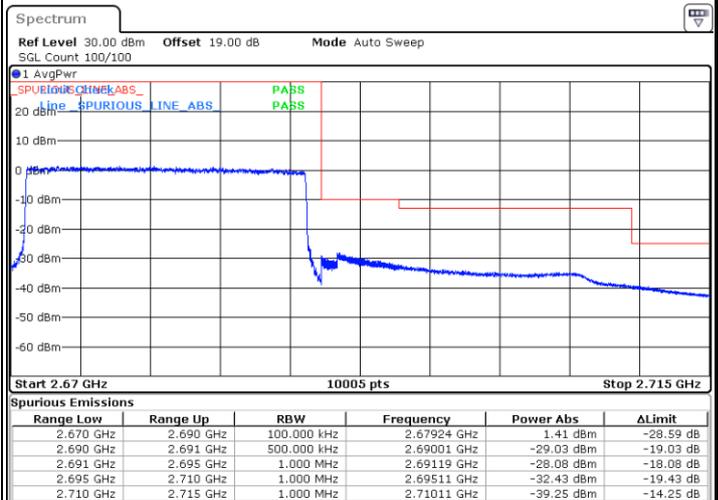
Date: 16.AUG.2024 17:23:33

Lowest Band Edge / Full RB



Date: 21.AUG.2024 11:40:46

Highest Band Edge / Full RB

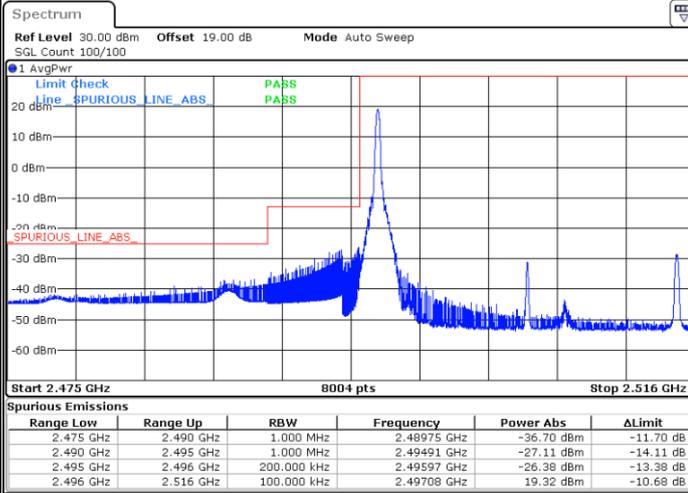


Date: 16.AUG.2024 17:28:01



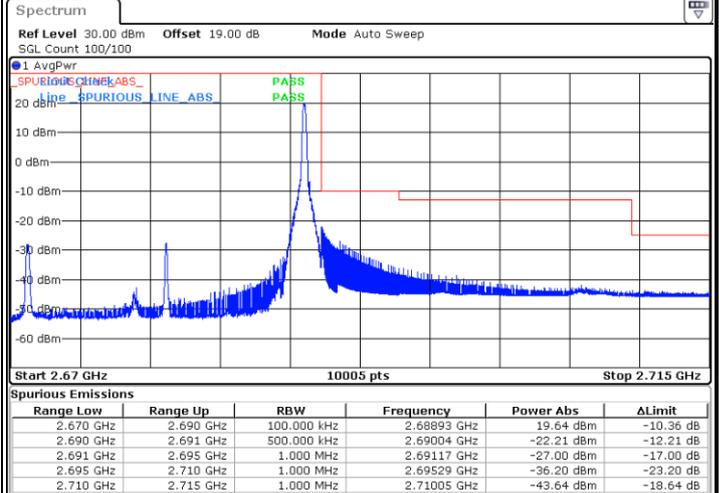
LTE Band 41 / 20MHz / 16QAM

Lowest Band Edge / 1RB



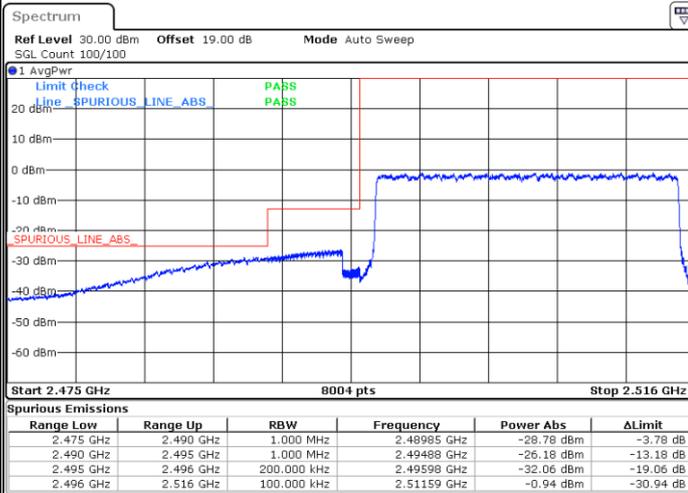
Date: 16.AUG.2024 17:14:16

Highest Band Edge / 1 RB



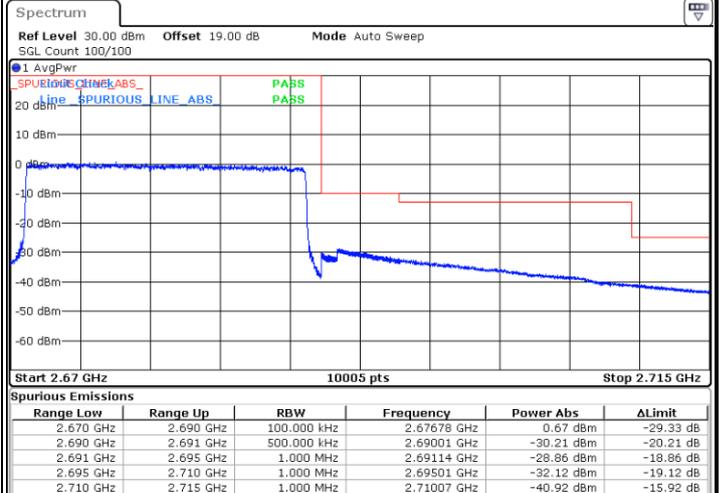
Date: 16.AUG.2024 17:24:26

Lowest Band Edge / Full RB



Date: 21.AUG.2024 11:42:46

Highest Band Edge / Full RB

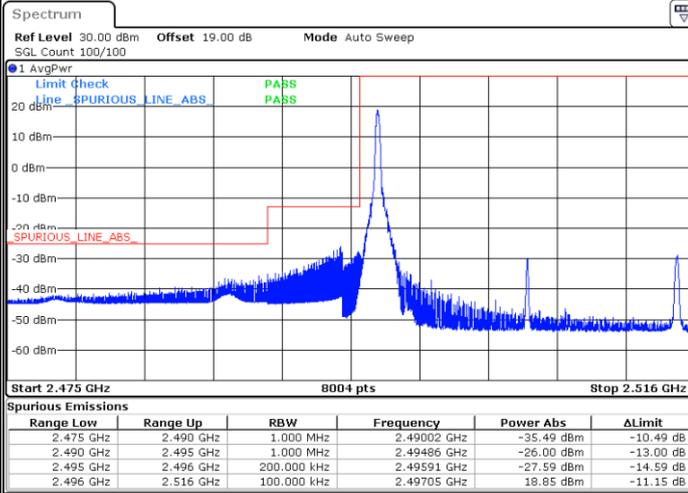


Date: 16.AUG.2024 17:27:07



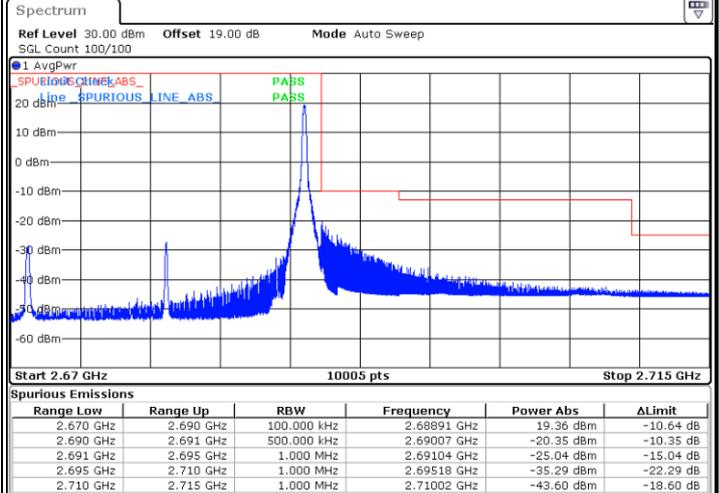
LTE Band 41 / 20MHz / 64QAM

Lowest Band Edge / 1RB



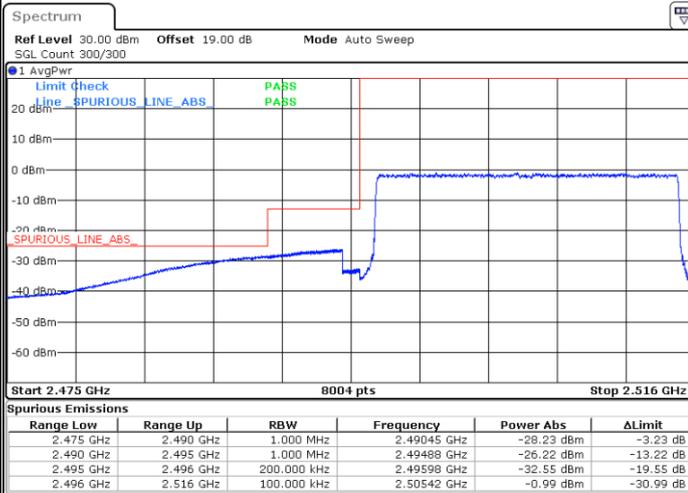
Date: 16.AUG.2024 17:15:07

Highest Band Edge / 1 RB



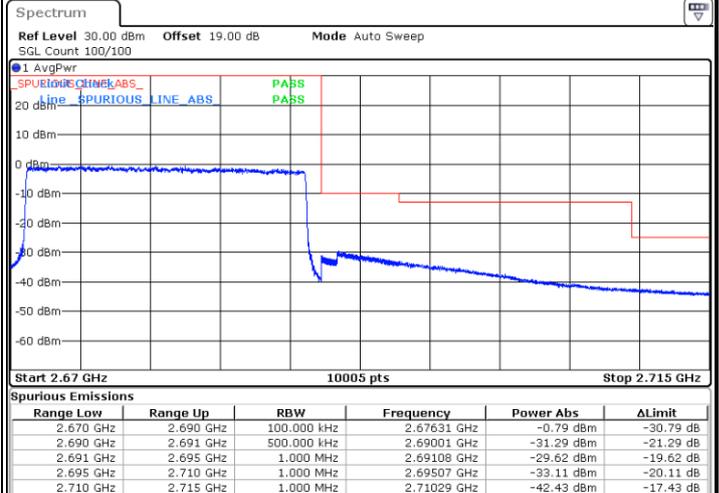
Date: 16.AUG.2024 17:25:20

Lowest Band Edge / Full RB



Date: 17.AUG.2024 13:51:10

Highest Band Edge / Full RB



Date: 16.AUG.2024 17:26:13

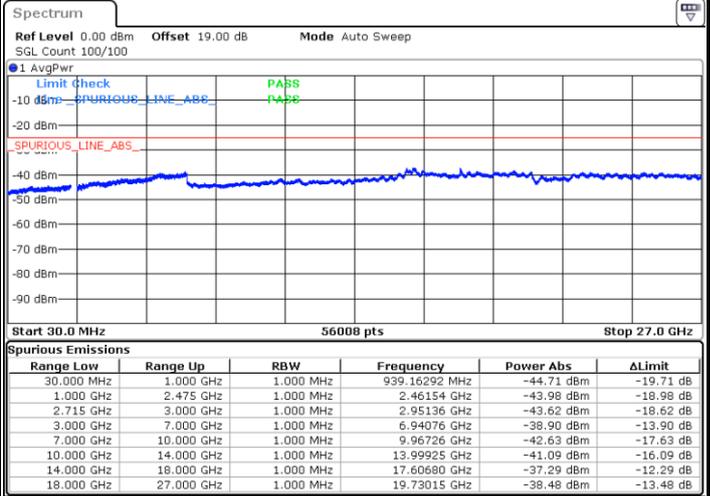
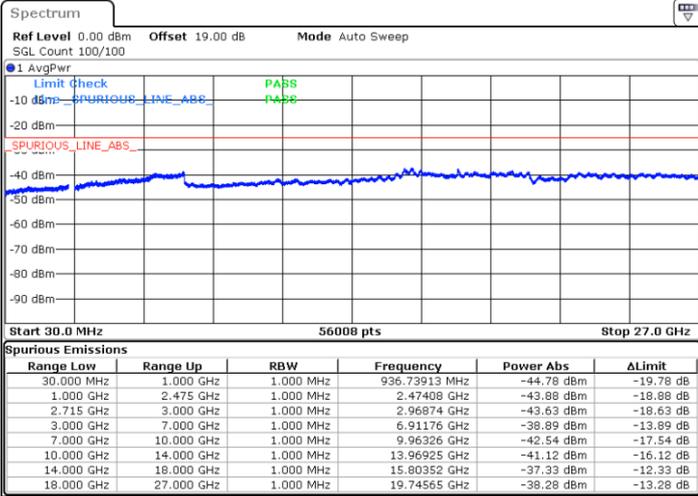


Conducted Spurious Emission

LTE Band 41 / 5MHz

Lowest Channel / QPSK

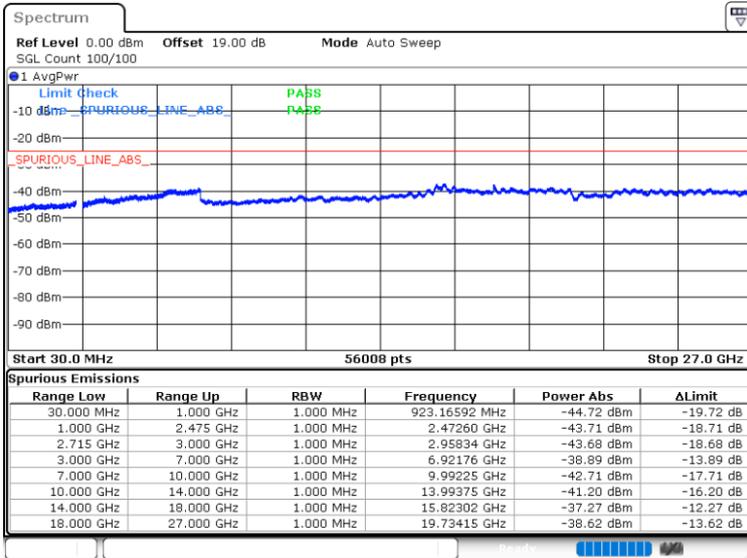
Middle Channel / QPSK



Date: 16.AUG.2024 16:30:18

Date: 16.AUG.2024 16:31:28

Highest Channel / QPSK



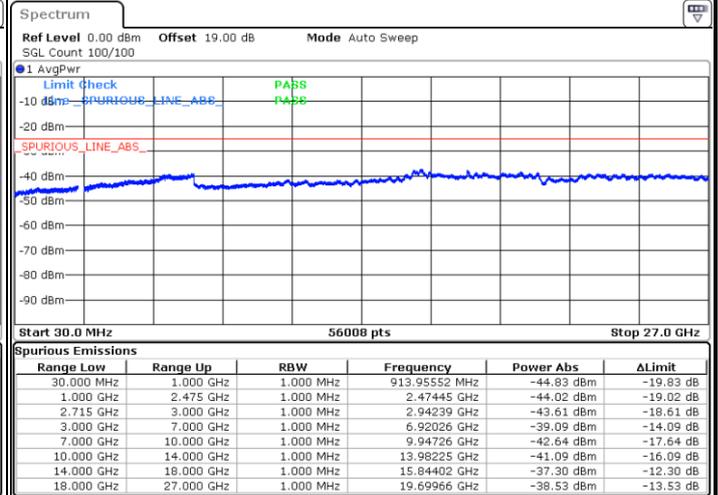
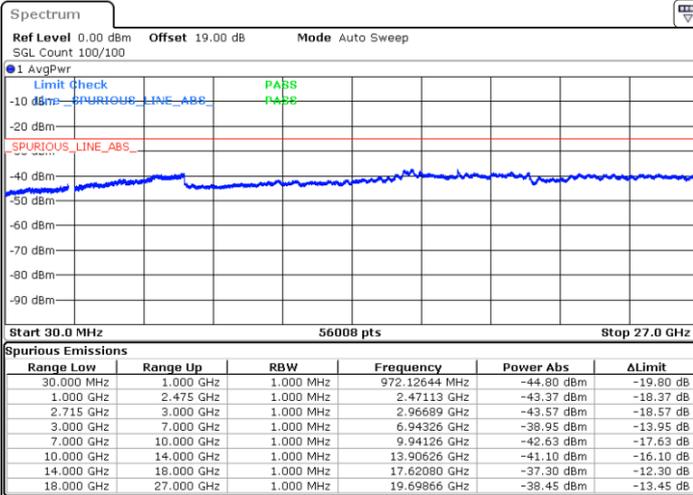
Date: 16.AUG.2024 16:40:13



LTE Band 41 / 10MHz

Lowest Channel / QPSK

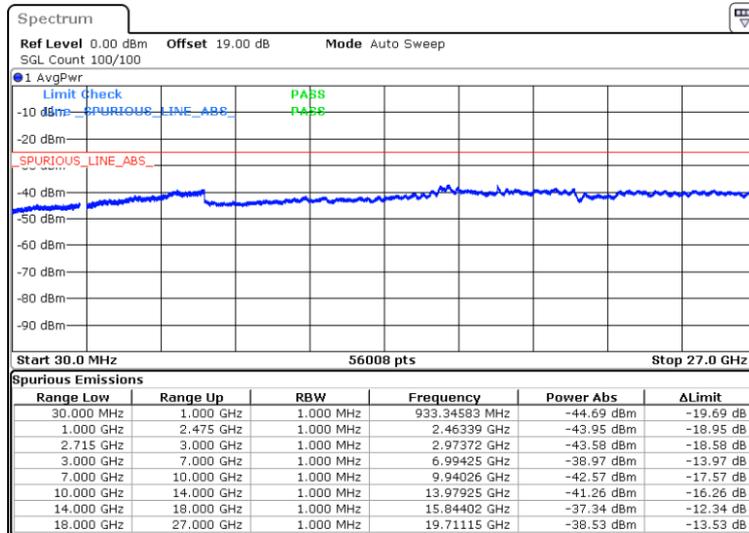
Middle Channel / QPSK



Date: 16.AUG.2024 16:47:11

Date: 16.AUG.2024 16:48:21

Highest Channel / QPSK



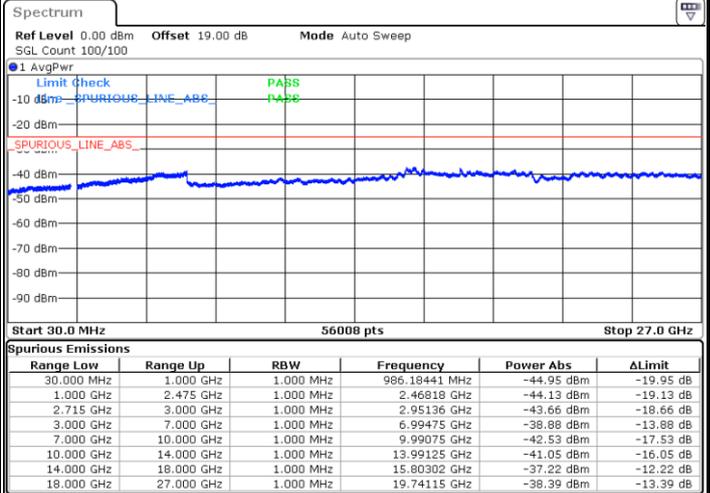
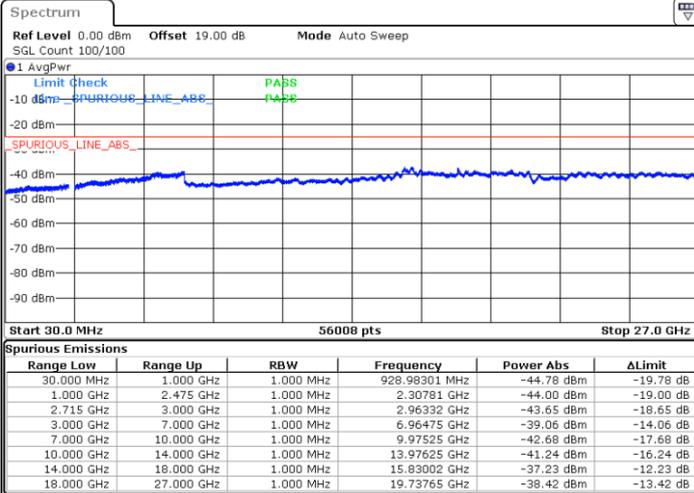
Date: 16.AUG.2024 16:55:54



LTE Band 41 / 15MHz

Lowest Channel / QPSK

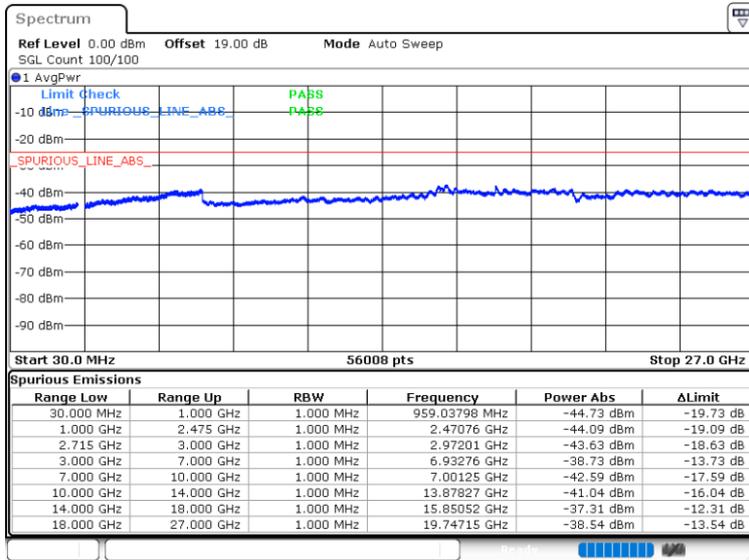
Middle Channel / QPSK



Date: 16.AUG.2024 17:02:52

Date: 16.AUG.2024 17:04:02

Highest Channel / QPSK



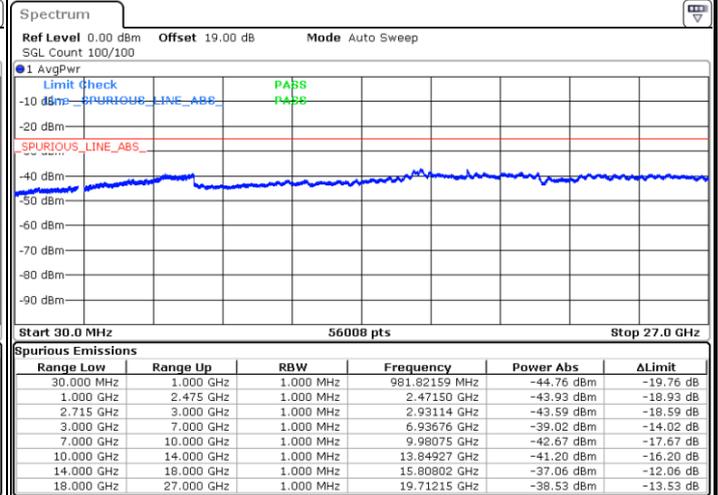
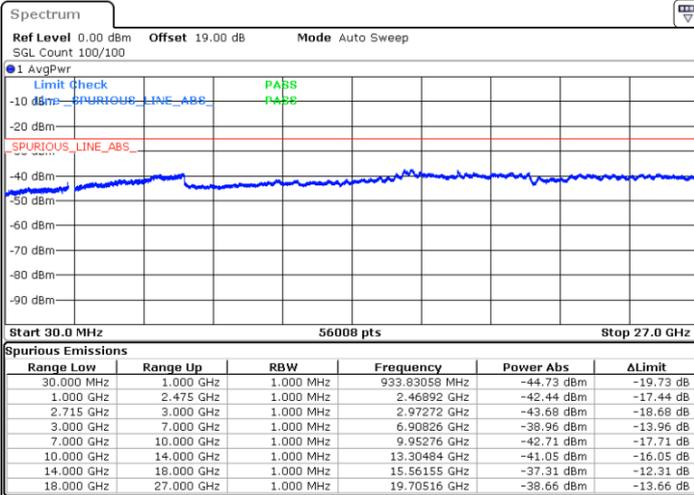
Date: 16.AUG.2024 17:11:51



LTE Band 41 / 20MHz

Lowest Channel / QPSK

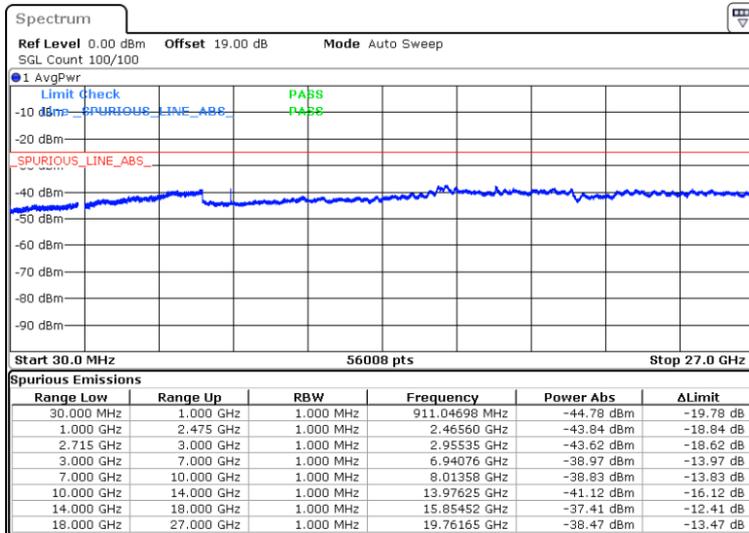
Middle Channel / QPSK



Date: 16.AUG.2024 17:18:50

Date: 16.AUG.2024 17:20:00

Highest Channel / QPSK



Date: 16.AUG.2024 17:29:11



Frequency Stability

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0006	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0001	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0006	
20	Battery End Point	0.0010	

Note:

1. Normal Voltage = 3.91 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Shunping You	Temperature :	22~25°C
		Relative Humidity :	48~52%

Note: Pre-scanned harmonic for the different antennas, we choose the worst antenna mode to perform final test and record in the report.

LTE Band 2 / 20MHz / QPSK / ANT 1								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3742.18	-58.91	-13	-45.91	-73.54	-65.66	5.85	12.60
	5613.27	-53.57	-13	-40.57	-71.29	-59.37	7.30	13.10
	7484.36	-56.18	-13	-43.18	-78.59	-59.33	8.35	11.50
	3742.18	-60.69	-13	-47.69	-75.53	-67.44	5.85	12.60
	5613.27	-53.22	-13	-40.22	-70.85	-59.02	7.30	13.10
	7484.36	-56.38	-13	-43.38	-78.72	-59.53	8.35	11.50

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 4 / 20MHz / QPSK / ANT 1								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3447.18	-64.39	-13	-51.39	-76.93	-71.24	5.65	12.50
	5170.77	-58.93	-13	-45.93	-76.46	-64.60	7.13	12.80
	6894.36	-58.34	-13	-45.34	-79.02	-61.74	8.40	11.80
	3447.18	-63.89	-13	-50.89	-76.98	-70.74	5.65	12.50
	5170.77	-61.50	-13	-48.50	-78.98	-67.17	7.13	12.80
	6894.36	-58.63	-13	-45.63	-79.22	-62.03	8.40	11.80

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 7 / 20MHz / QPSK / ANT 1								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5052.18	-61.97	-25	-36.97	-79.39	-67.53	7.14	12.70
	7578.27	-56.55	-25	-31.55	-78.74	-59.85	8.30	11.60
	10104.36	-52.94	-25	-27.94	-80.03	-54.46	10.48	12.00
	5052.18	-61.70	-25	-36.70	-79.05	-67.26	7.14	12.70
	7578.27	-56.45	-25	-31.45	-78.44	-59.75	8.30	11.60
	10104.36	-53.21	-25	-28.21	-79.81	-54.73	10.48	12.00

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 26 / 10MHz / QPSK / ANT 1								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1649.5	-67.64	-13	-54.64	-73.90	-70.89	4.00	9.40
	2474.25	-65.40	-13	-52.40	-75.75	-68.97	4.88	10.60
	3299	-63.65	-13	-50.65	-76.06	-68.58	5.52	12.60
	1649.5	-67.95	-13	-54.95	-74.09	-71.20	4.00	9.40
	2474.25	-65.02	-13	-52.02	-75.72	-68.59	4.88	10.60
	3299	-63.58	-13	-50.58	-76.44	-68.51	5.52	12.60

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 41 / 20MHz / QPSK / ANT 1								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5168.00	-61.94	-25	-36.94	-79.46	-67.50	7.14	12.70
	7752.00	-55.77	-25	-30.77	-78.43	-59.07	8.30	11.60
	10336.00	-52.35	-25	-27.35	-79.36	-53.87	10.48	12.00
	5168.00	-61.87	-25	-36.87	-79.34	-67.43	7.14	12.70
	7752.00	-55.87	-25	-30.87	-78.5	-59.17	8.30	11.60
	10336.00	-52.61	-25	-27.61	-79.39	-54.13	10.48	12.00

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.