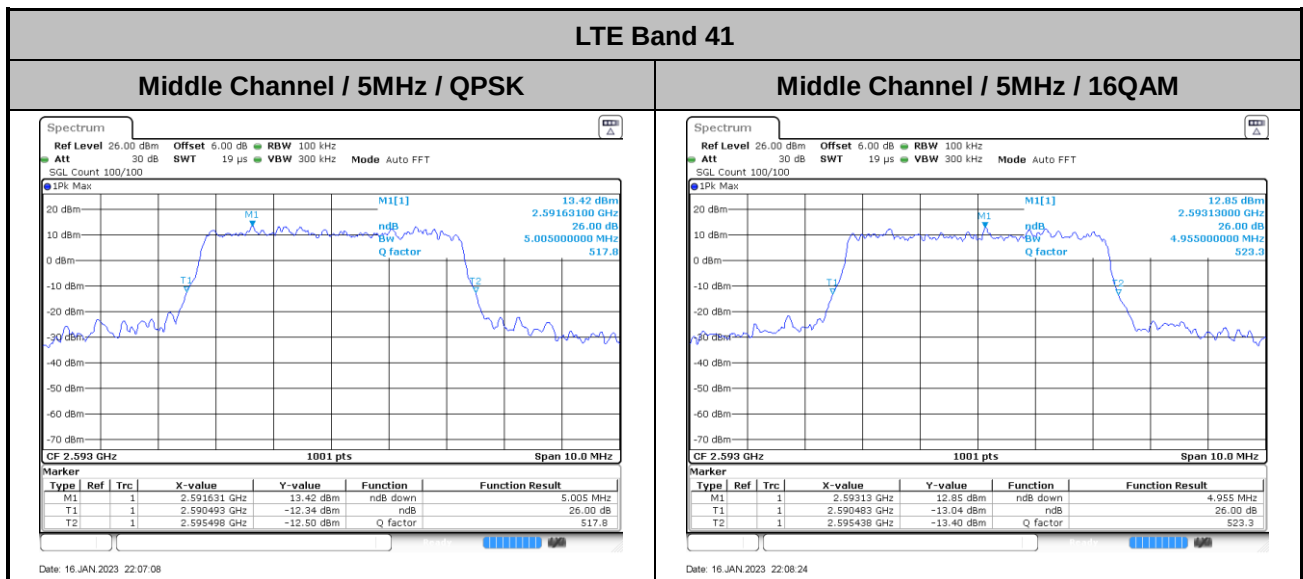


**26dB Bandwidth**

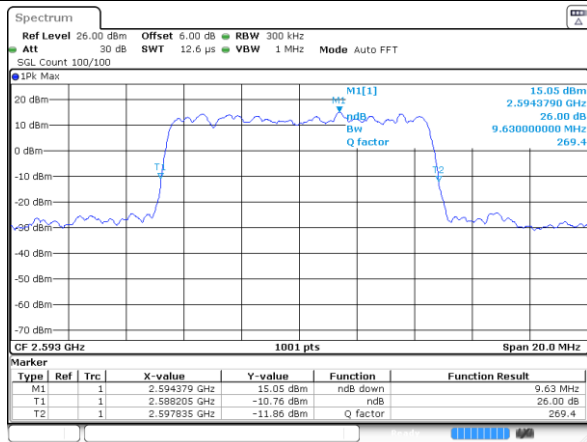
Mode	LTE Band 41 : 26dB BW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	5.01	4.96
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.63	5.75
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	14.30	6.71
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.94	5.59





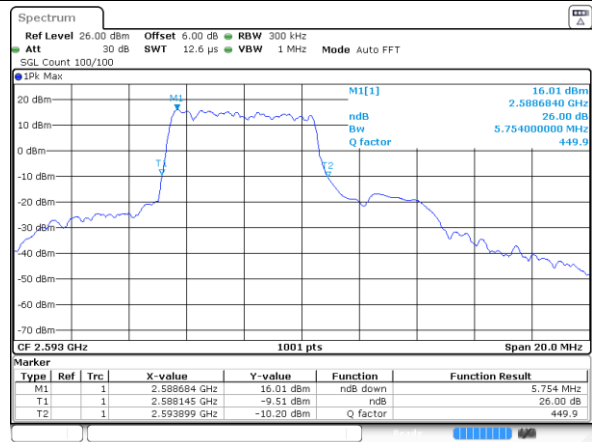
LTE Band 41

Middle Channel / 10MHz / QPSK



Date: 16 JAN 2023 22:04:27

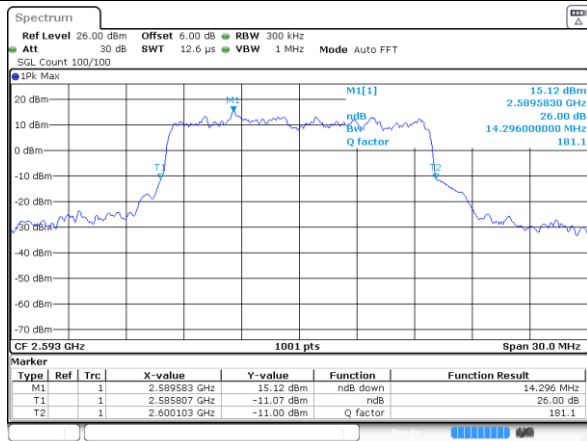
Middle Channel / 10MHz / 16QAM



Date: 16 JAN 2023 22:05:22

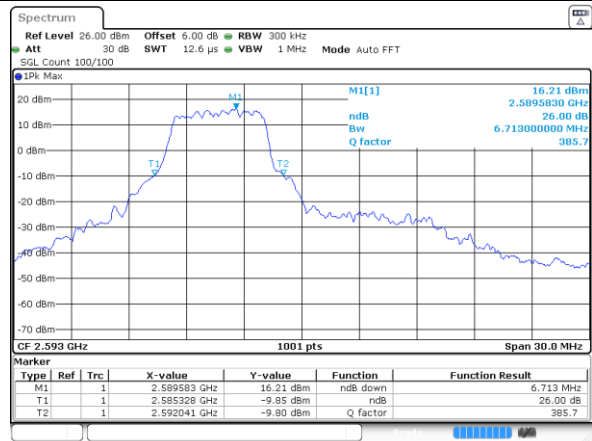
LTE Band 41

Middle Channel / 15MHz / QPSK



Date: 16 JAN 2023 22:01:39

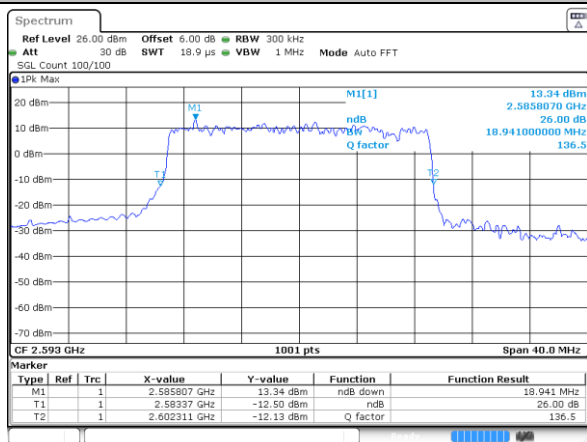
Middle Channel / 15MHz / 16QAM



Date: 16 JAN 2023 22:02:40

LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 16 JAN 2023 21:57:53

Middle Channel / 20MHz / 16QAM

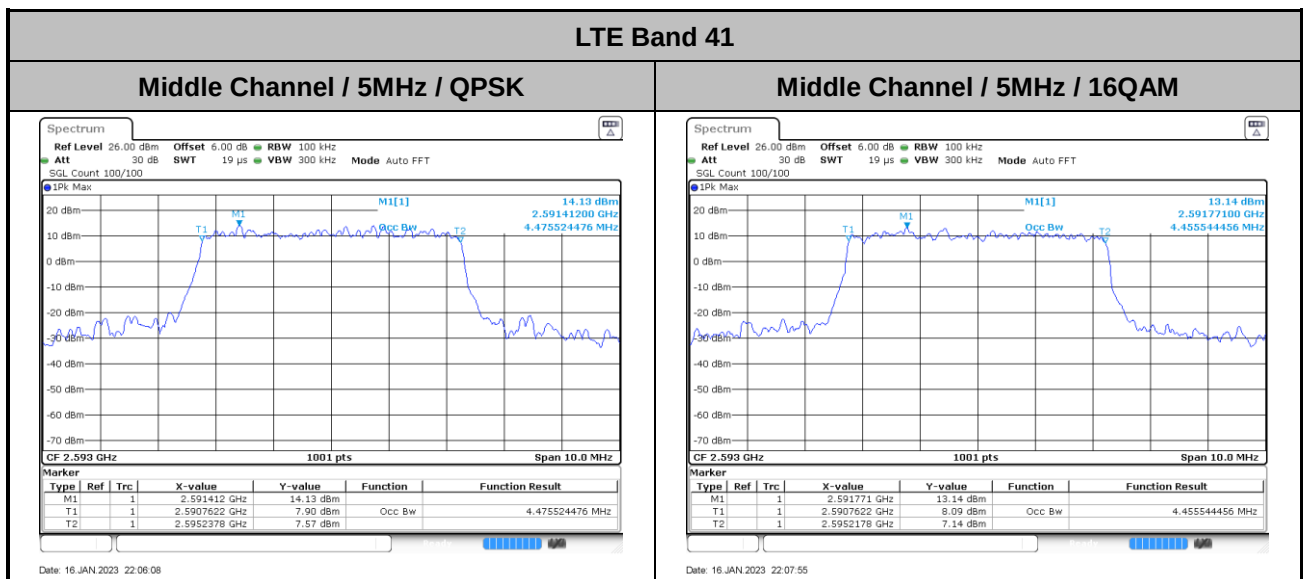


Date: 16 JAN 2023 21:58:59



Occupied Bandwidth

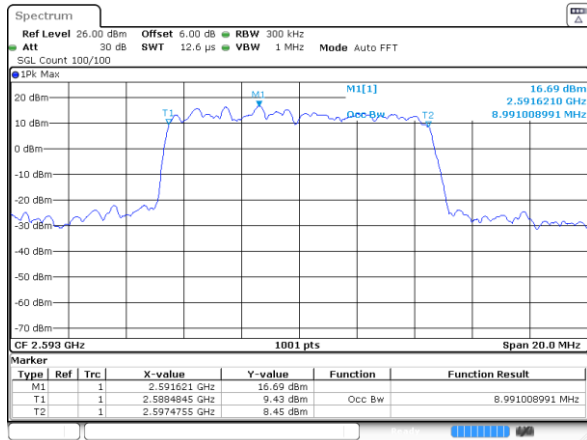
Mode	LTE Band 41 : 99%OBW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.48	4.46
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	8.99	4.98
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	13.52	5.06
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.78	5.03



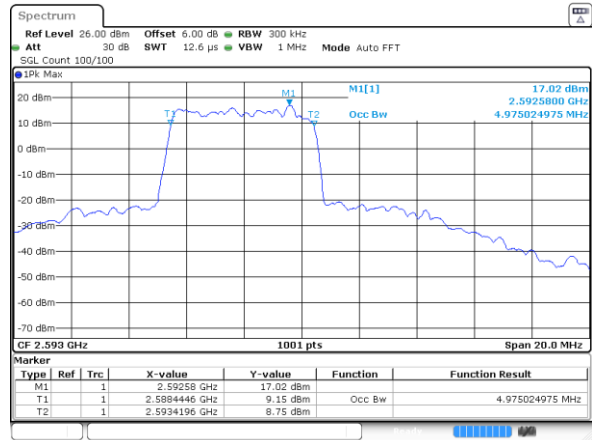


LTE Band 41

Middle Channel / 10MHz / QPSK

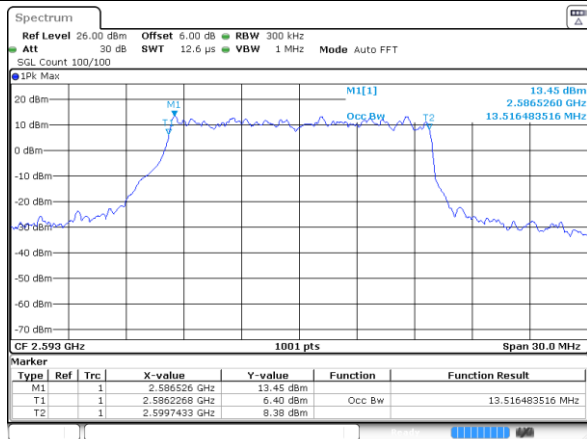


Middle Channel / 10MHz / 16QAM

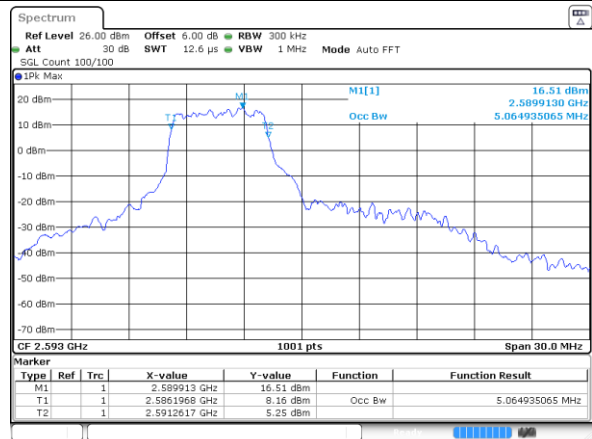


LTE Band 41

Middle Channel / 15MHz / QPSK

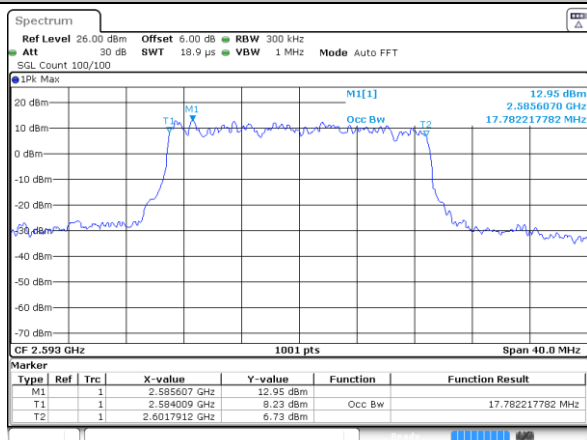


Middle Channel / 15MHz / 16QAM

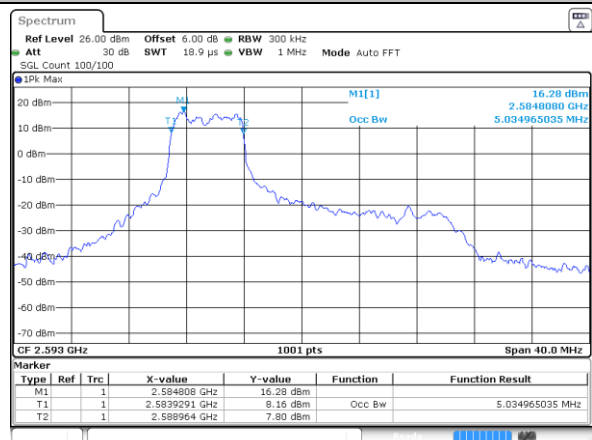


LTE Band 41

Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM

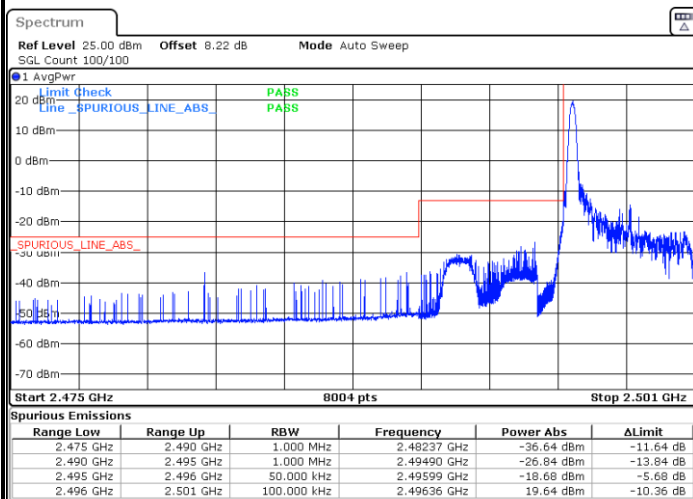




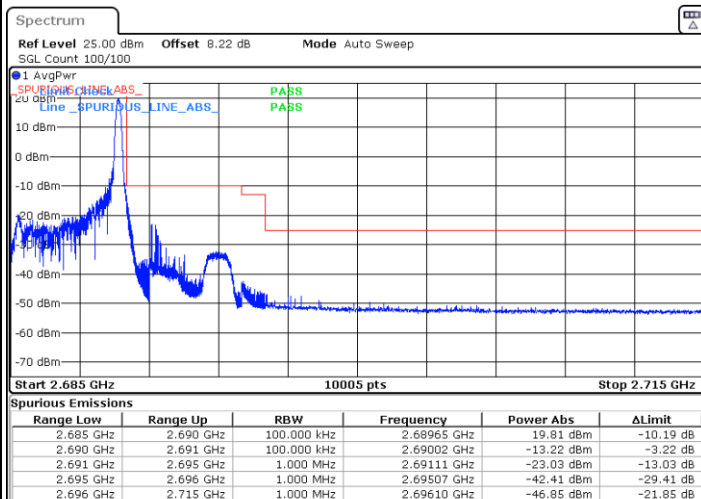
Conducted Band Edge

LTE Band 41 / 5MHz / QPSK

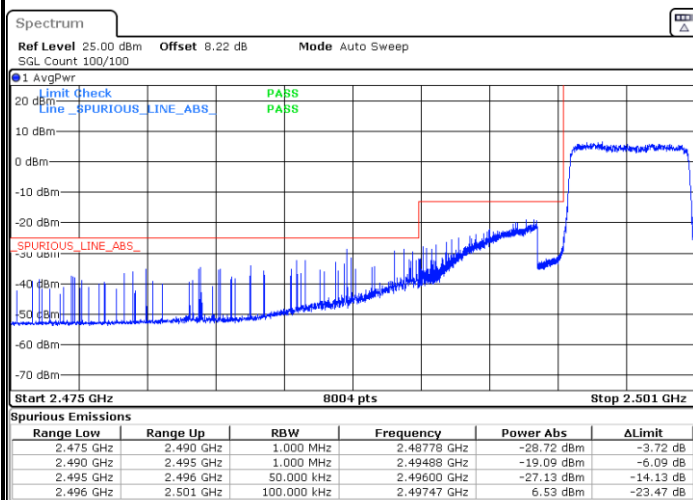
Lowest Band Edge / 1 RB



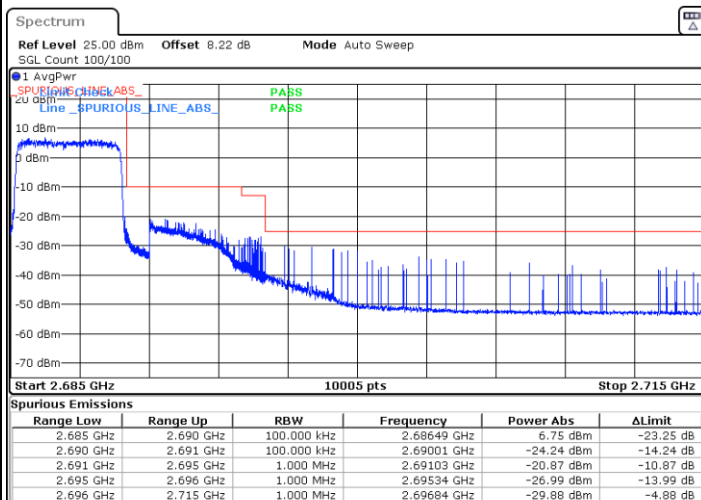
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



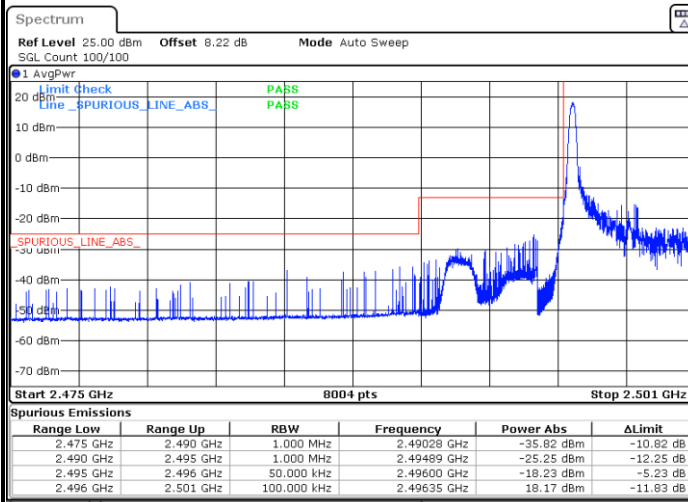
Highest Band Edge / Full RB





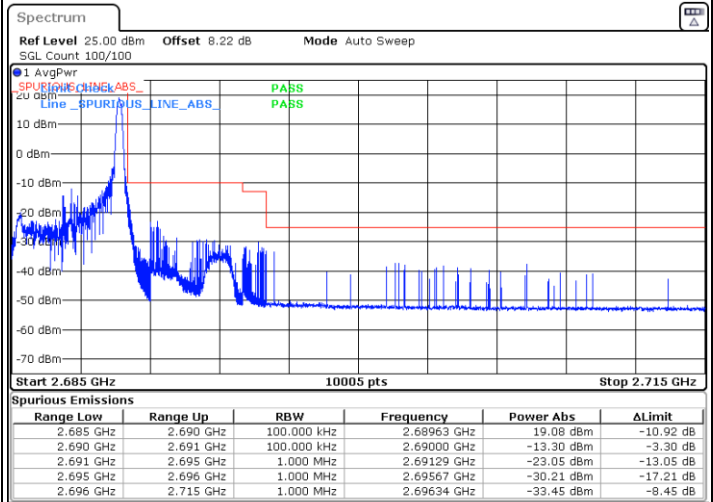
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



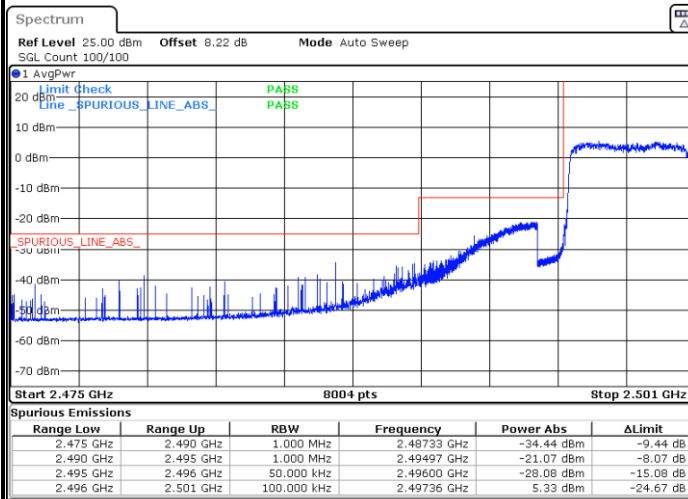
Date: 16 JAN 2023 20:13:49

Highest Band Edge / 1 RB



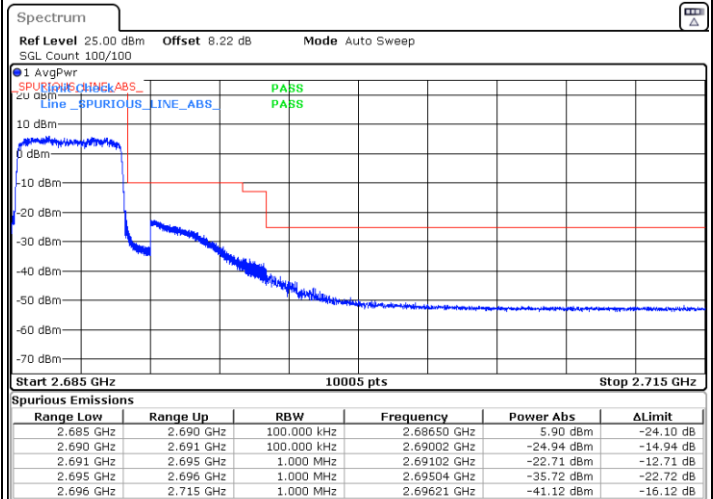
Date: 16 JAN 2023 20:19:32

Lowest Band Edge / Full RB



Date: 16 JAN 2023 20:16:17

Highest Band Edge / Full RB

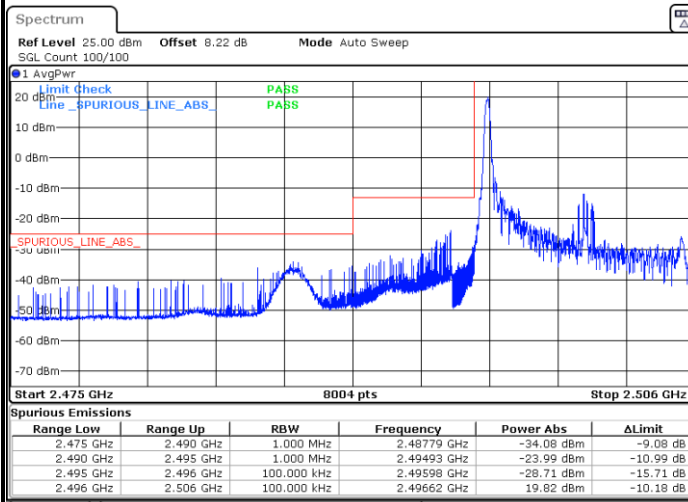


Date: 16 JAN 2023 20:18:42



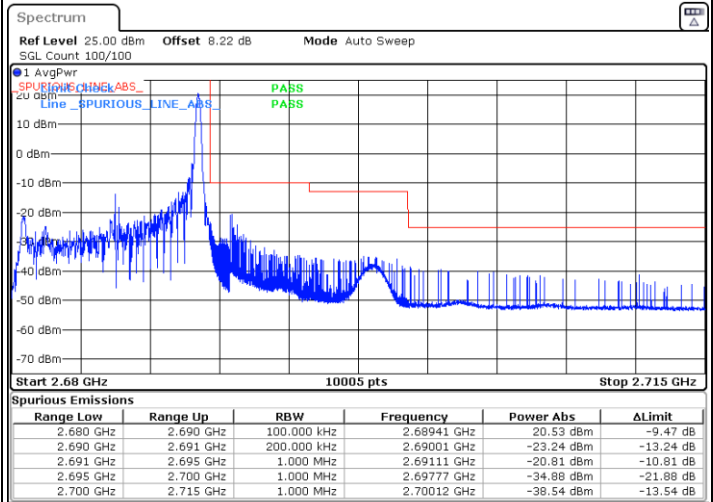
LTE Band 41 / 10MHz / QPSK

Lowest Band Edge / 1 RB



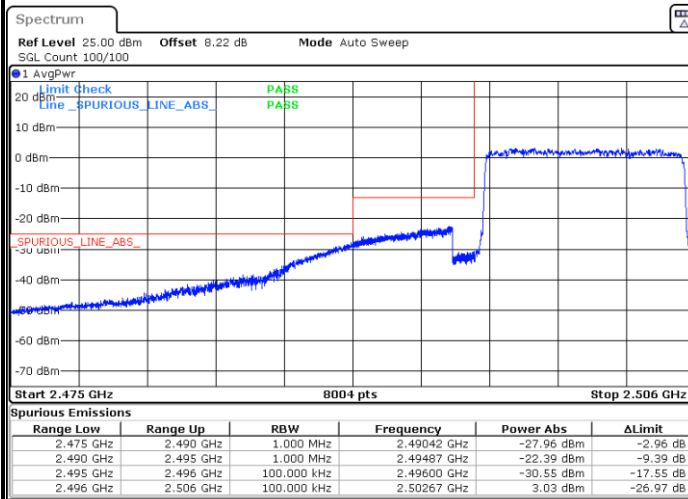
Date: 16 JAN 2023 20:38:02

Highest Band Edge / 1 RB



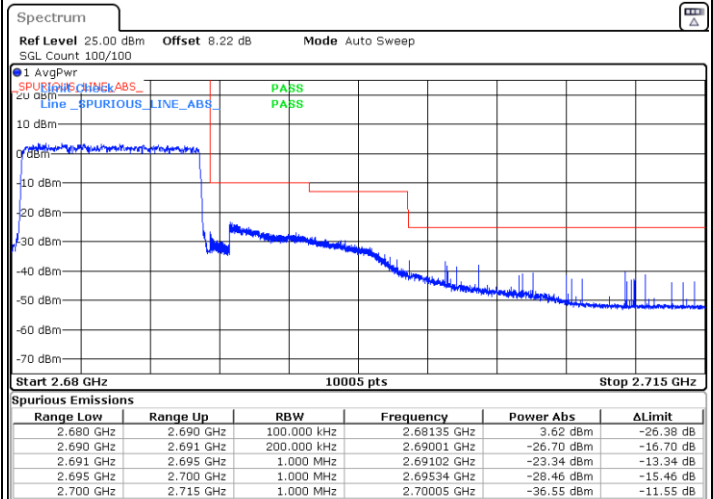
Date: 16 JAN 2023 20:44:22

Lowest Band Edge / Full RB



Date: 16 JAN 2023 20:40:17

Highest Band Edge / Full RB

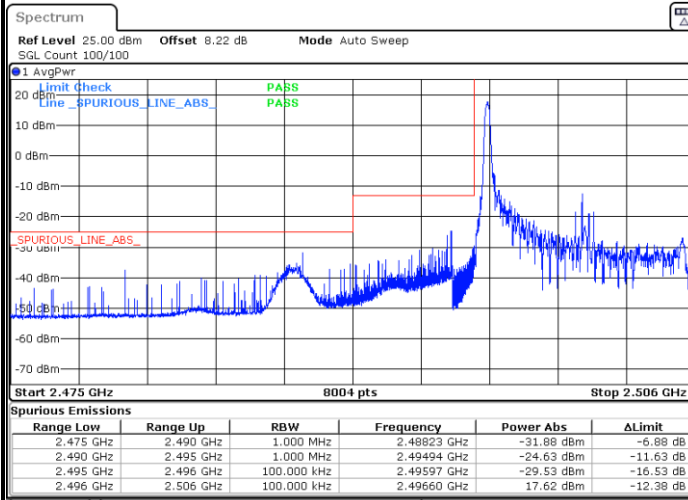


Date: 16 JAN 2023 20:45:47

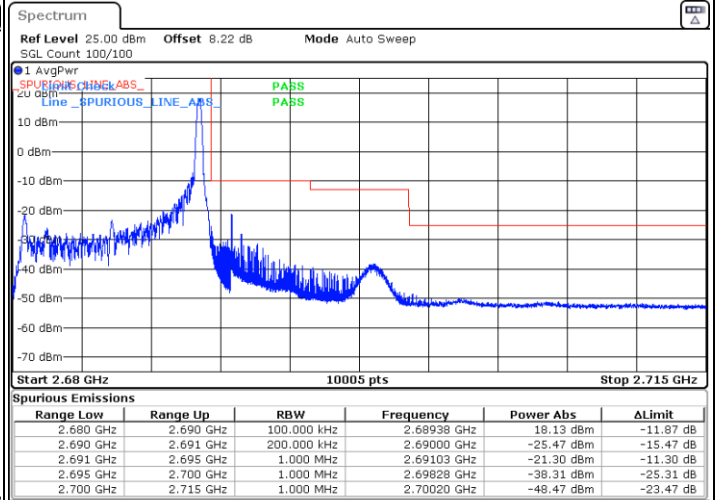


LTE Band 41 / 10MHz / 16QAM

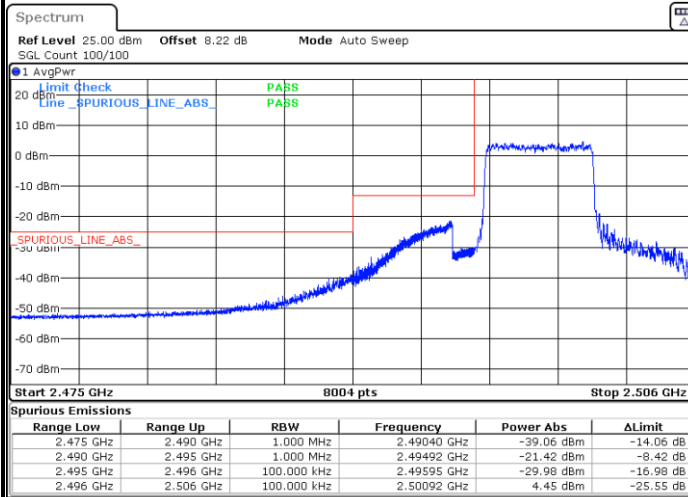
Lowest Band Edge / 1 RB



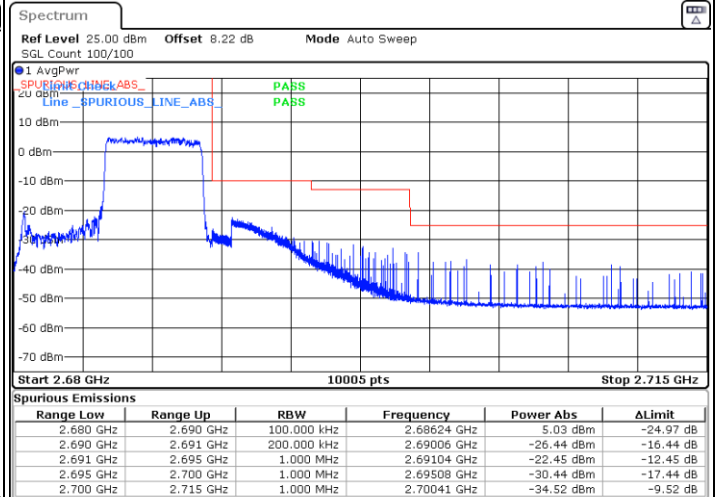
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



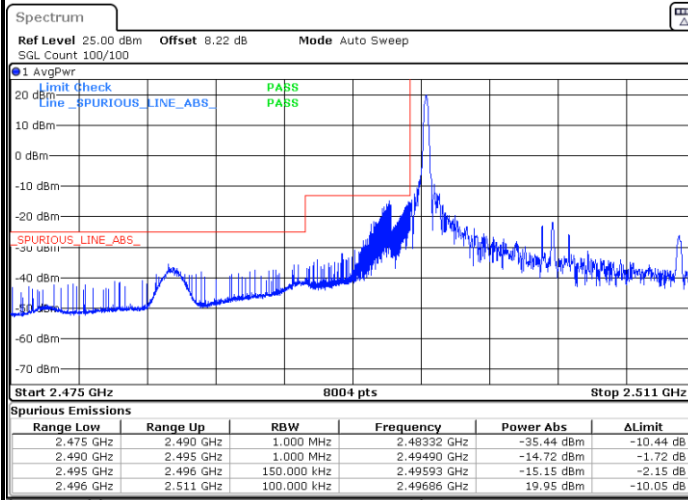
Highest Band Edge / Full RB



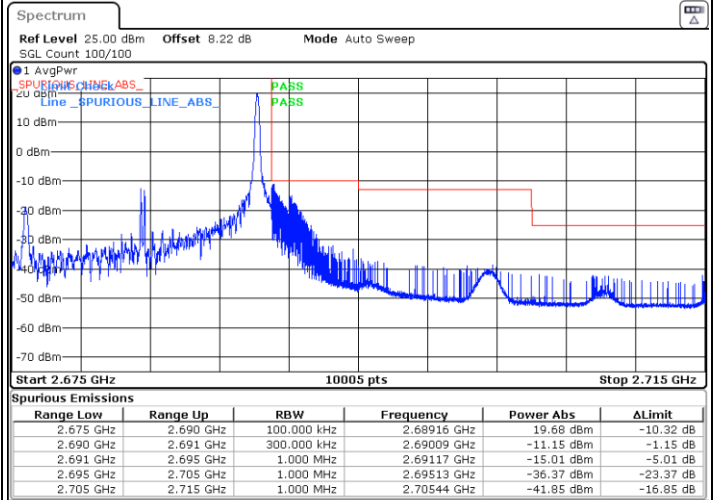


LTE Band 41 / 15MHz / QPSK

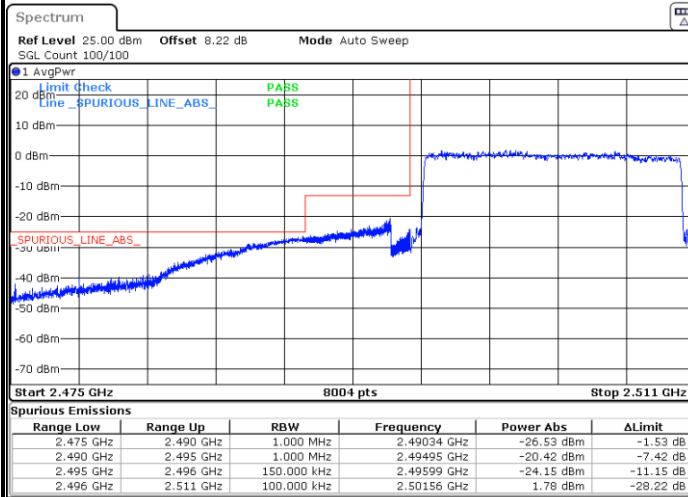
Lowest Band Edge / 1 RB



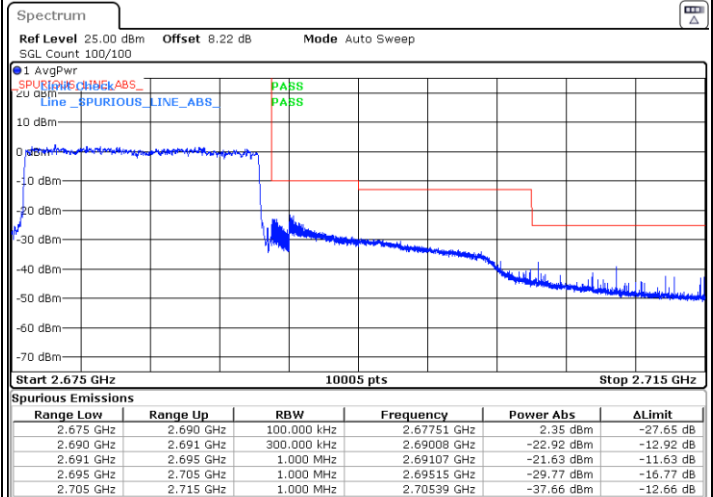
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



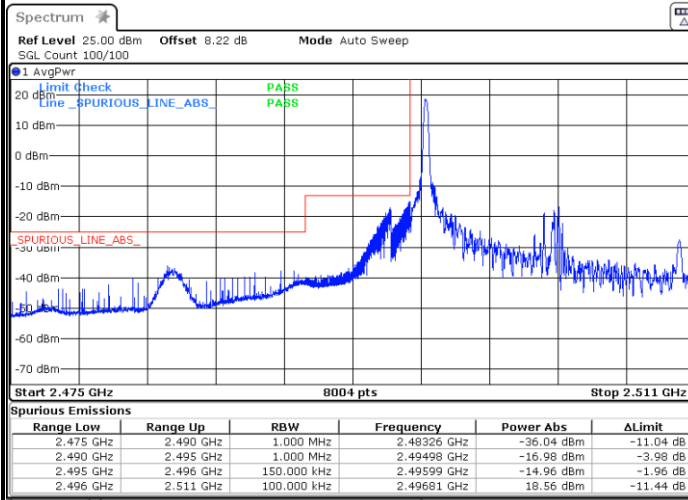
Highest Band Edge / Full RB





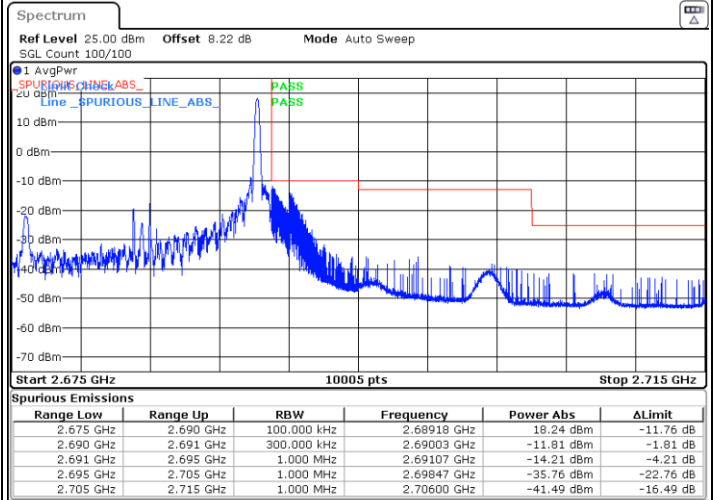
LTE Band 41 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



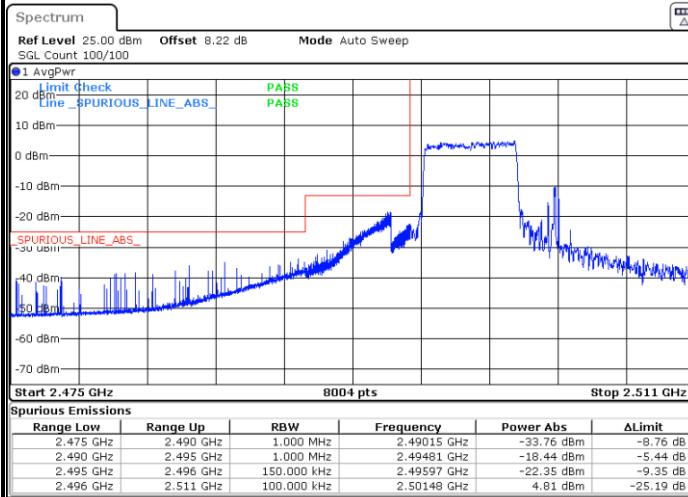
Date: 16 JAN 2023 21:11:39

Highest Band Edge / 1 RB



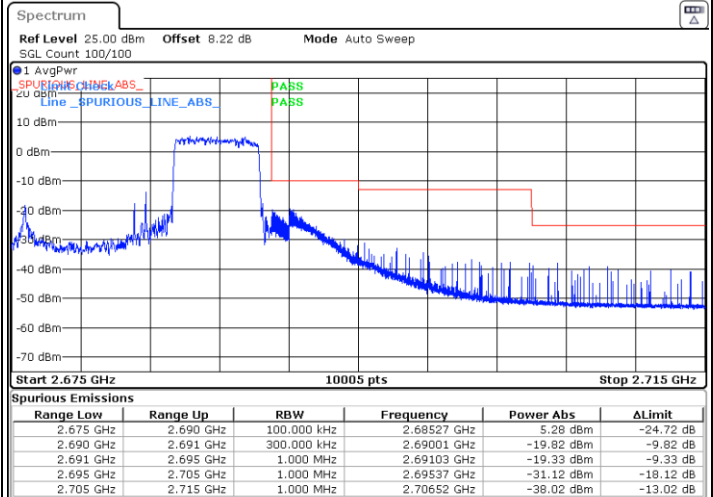
Date: 16 JAN 2023 21:15:58

Lowest Band Edge / Full RB



Date: 16 JAN 2023 21:13:10

Highest Band Edge / Full RB

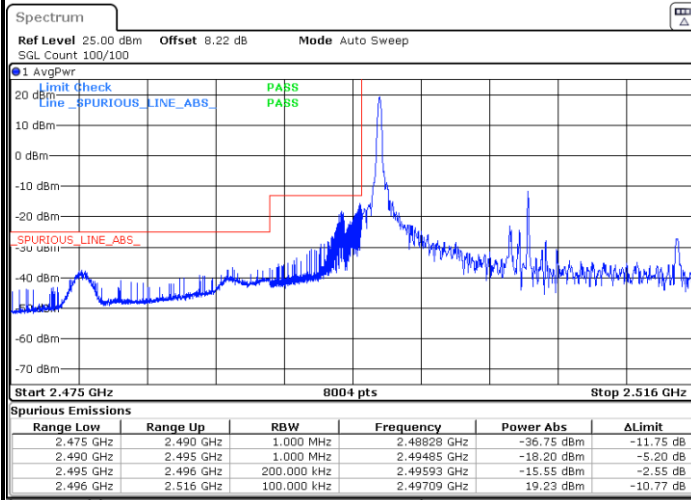


Date: 16 JAN 2023 21:17:05

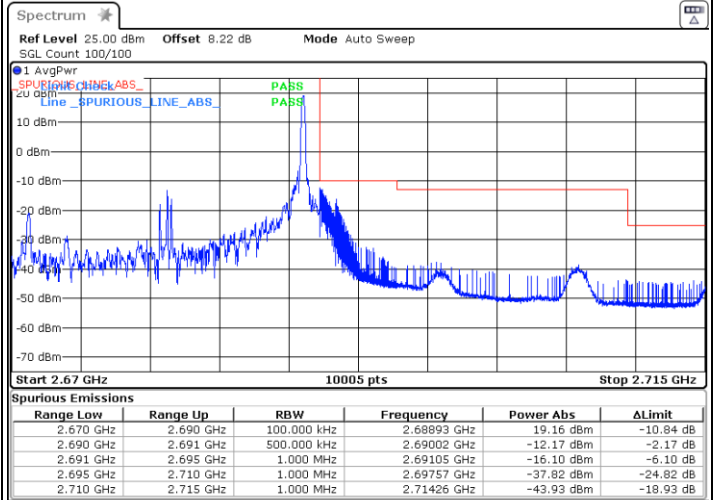


LTE Band 41 / 20MHz / QPSK

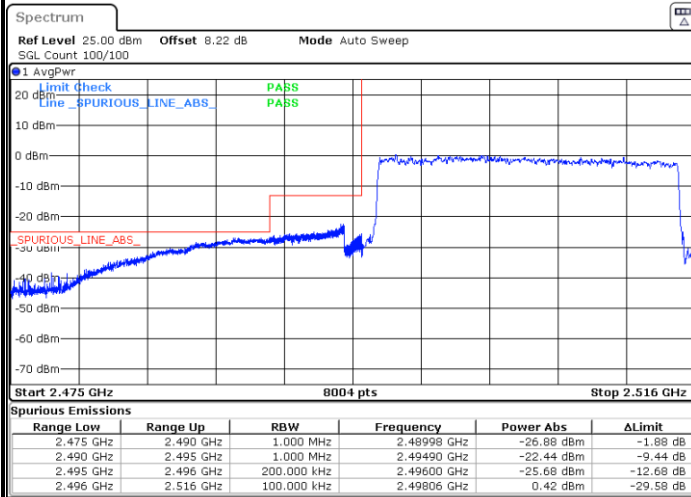
Lowest Band Edge / 1 RB



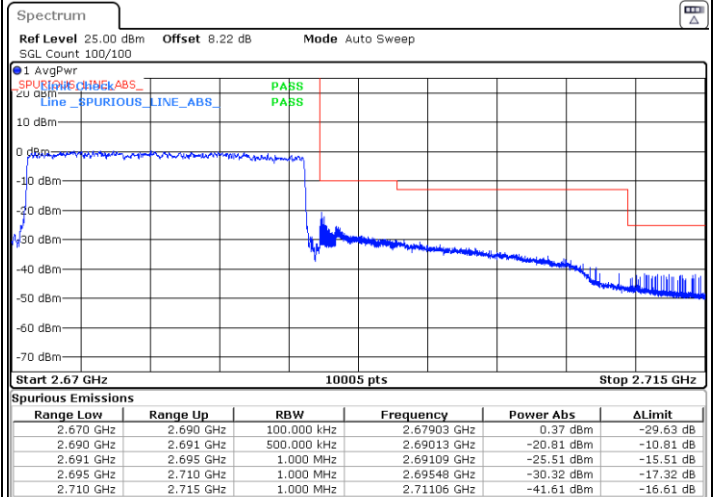
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



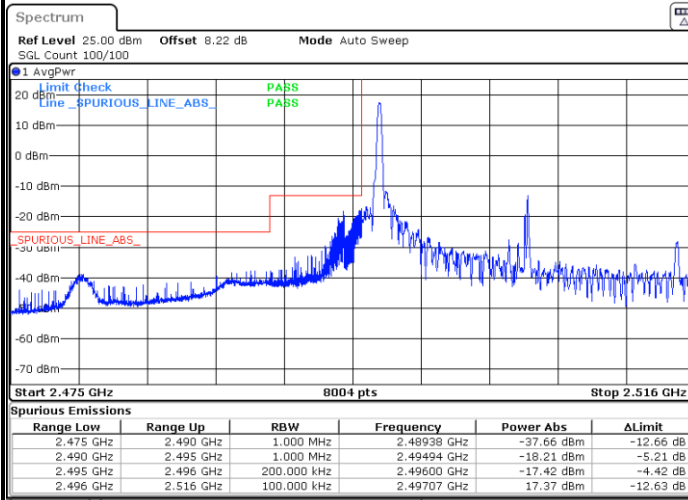
Highest Band Edge / Full RB





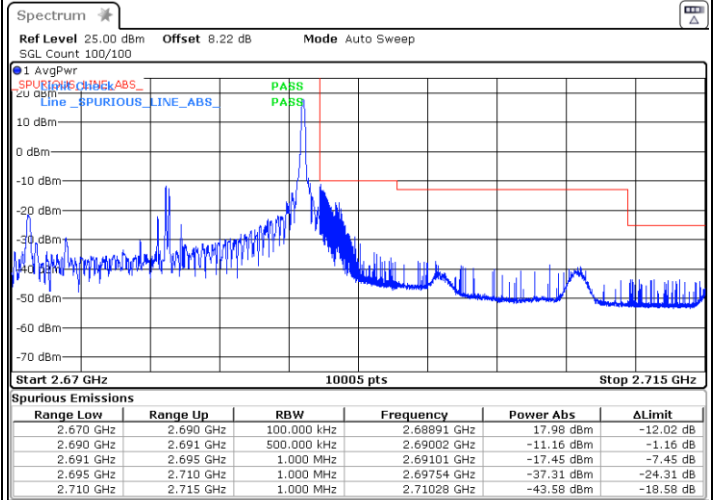
LTE Band 41 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



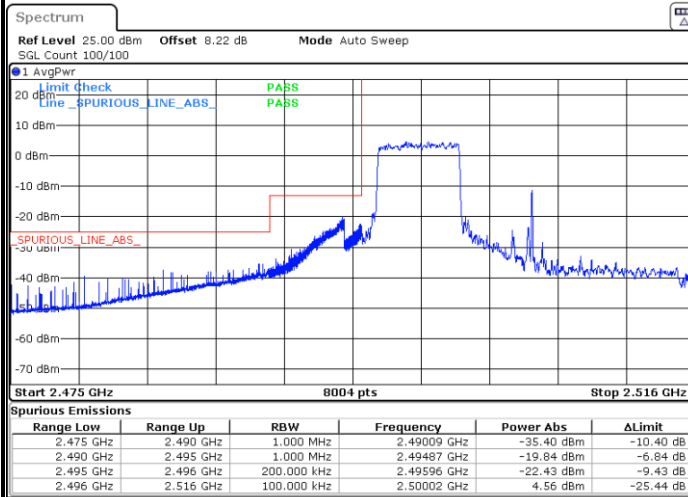
Date: 16 JAN 2023 21:24:30

Highest Band Edge / 1 RB



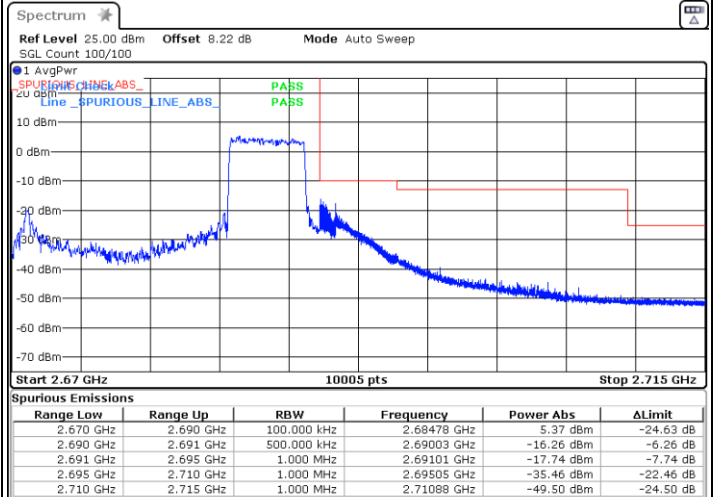
Date: 16 JAN 2023 21:29:30

Lowest Band Edge / Full RB



Date: 16 JAN 2023 21:25:15

Highest Band Edge / Full RB



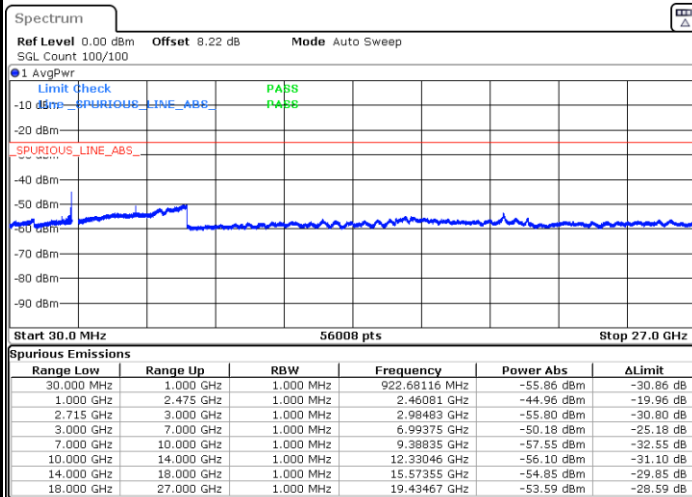
Date: 16 JAN 2023 21:28:25



Conducted Spurious Emission

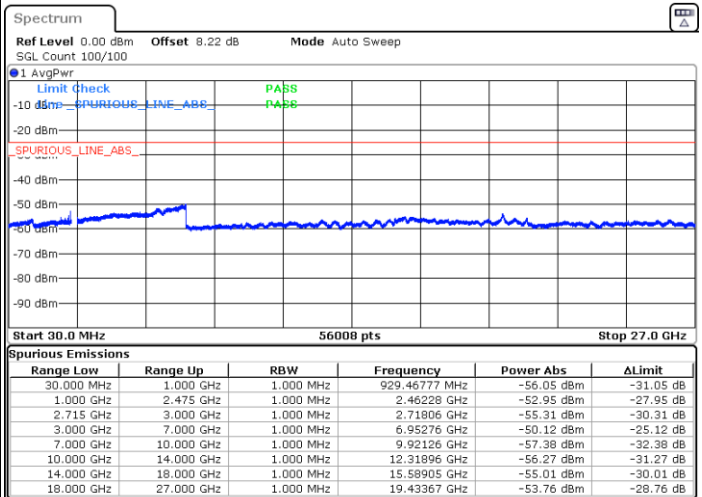
LTE Band 41 / 5MHz

Lowest Channel / QPSK



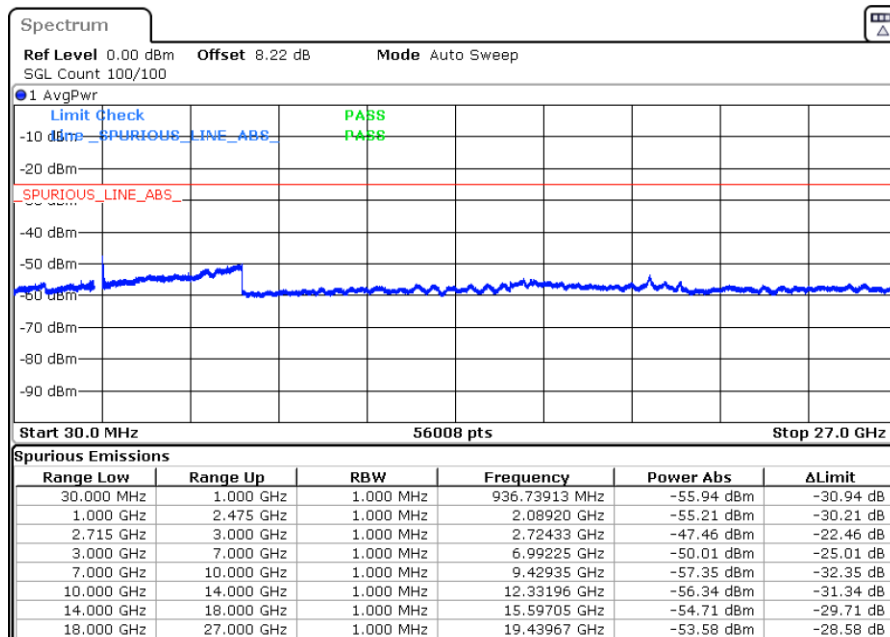
Date: 16 JAN 2023 20:31:25

Middle Channel / QPSK



Date: 16 JAN 2023 20:29:56

Highest Channel / QPSK

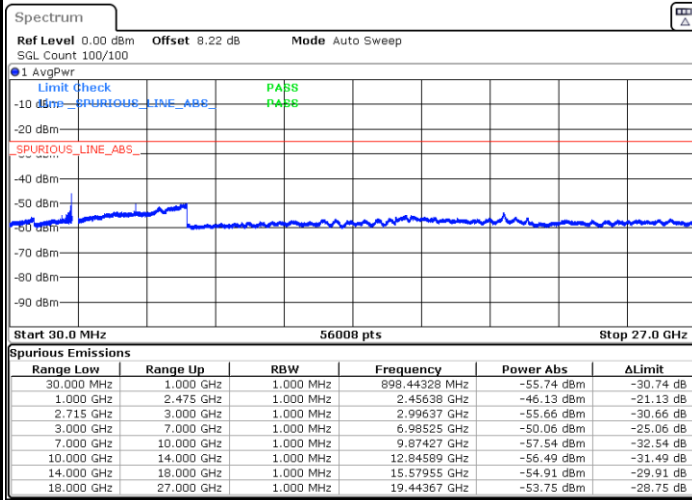


Date: 16 JAN 2023 20:27:58



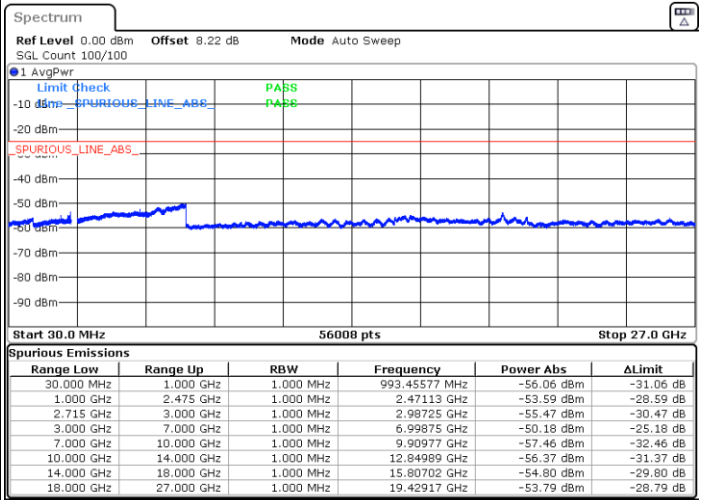
LTE Band 41 / 10MHz

Lowest Channel / QPSK



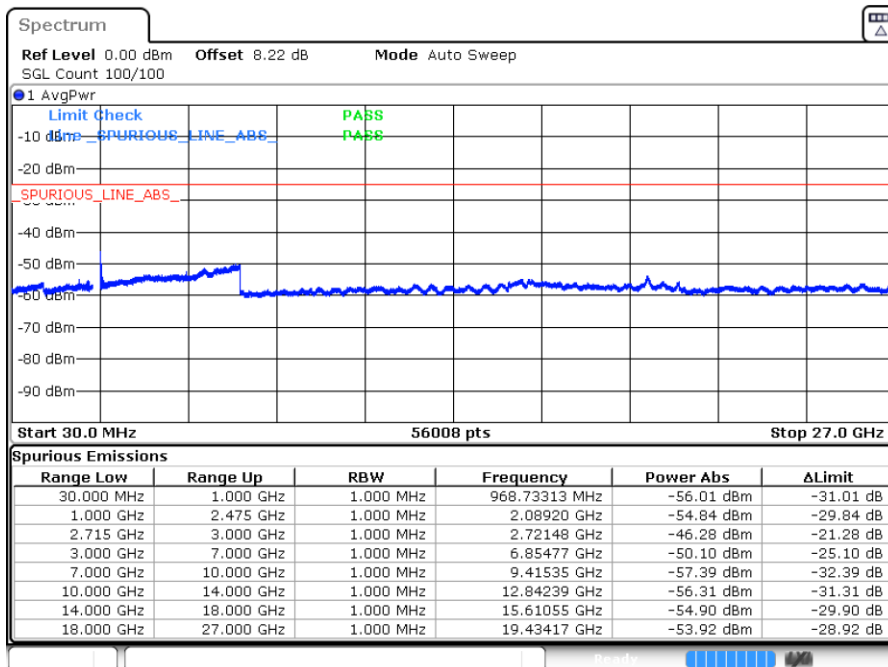
Date: 16 JAN 2023 20:36:59

Middle Channel / QPSK



Date: 16 JAN 2023 20:33:47

Highest Channel / QPSK

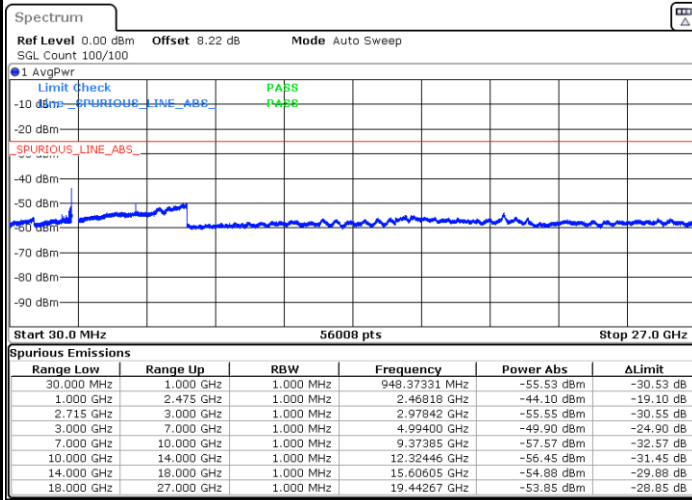


Date: 16 JAN 2023 20:35:27



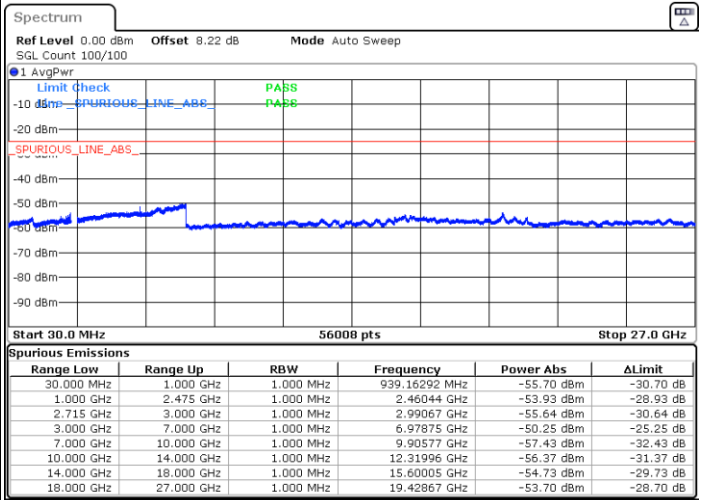
LTE Band 41 / 15MHz

Lowest Channel / QPSK



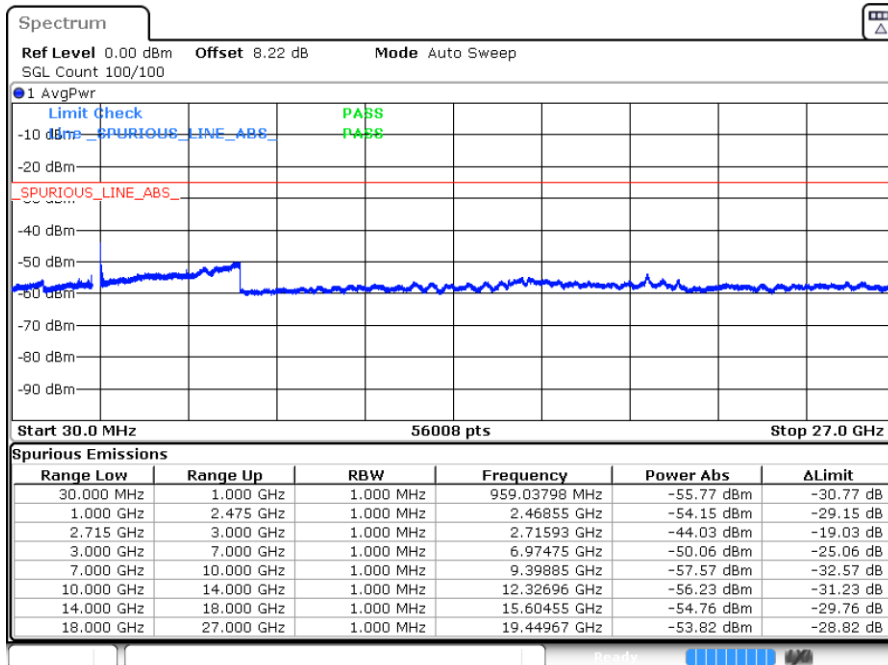
Date: 16 JAN 2023 20:55:48

Middle Channel / QPSK



Date: 16 JAN 2023 20:52:39

Highest Channel / QPSK

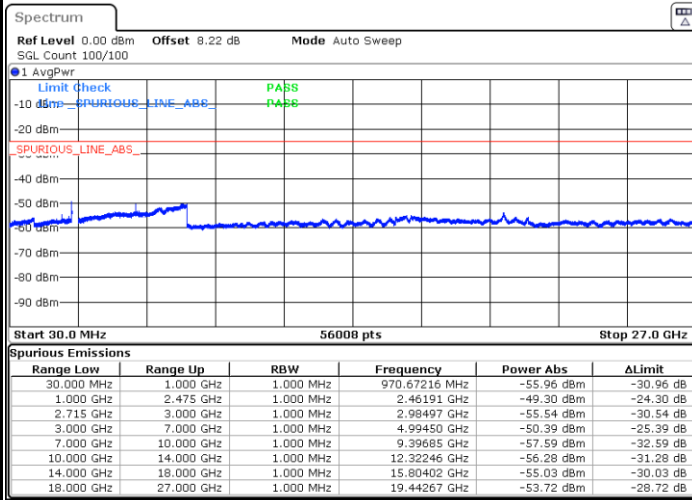


Date: 16 JAN 2023 20:54:10



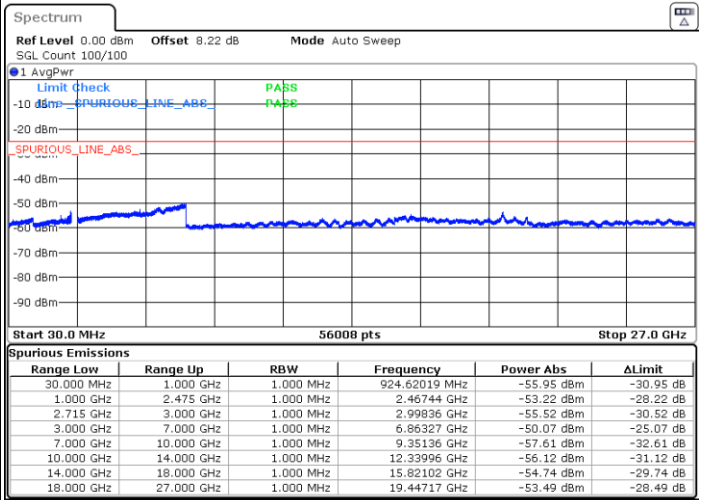
LTE Band 41 / 20MHz

Lowest Channel / QPSK



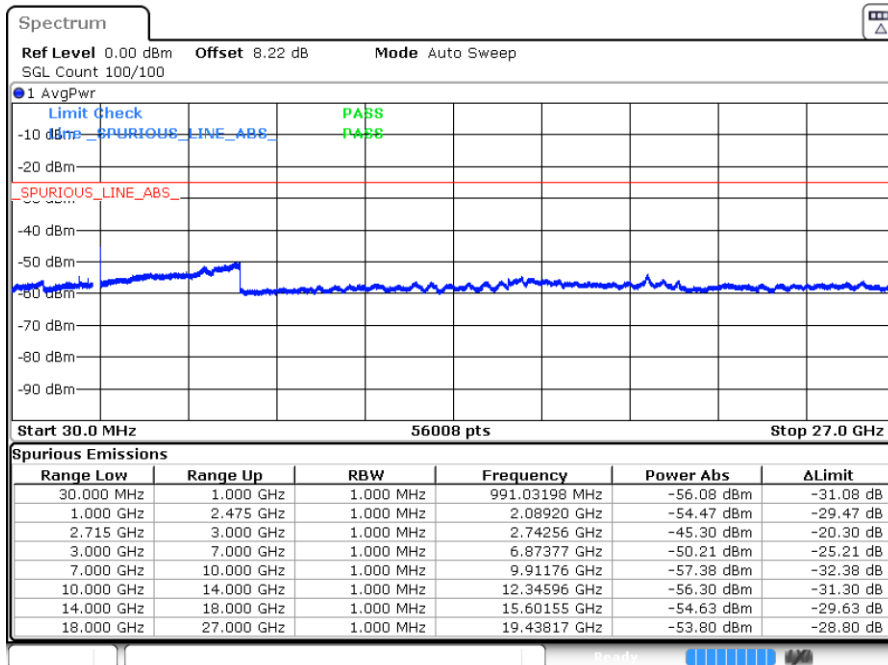
Date: 16 JAN 2023 21:23:23

Middle Channel / QPSK



Date: 16 JAN 2023 21:19:54

Highest Channel / QPSK



Date: 16 JAN 2023 21:21:45

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	0.0011	PASS
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0026	
0	Normal Voltage	0.0023	
-10	Normal Voltage	0.0001	
-20	Normal Voltage	0.0035	
-30	Normal Voltage	0.0037	
20	Maximum Voltage	0.0026	
20	Normal Voltage	0.0041	
20	End Point	0.0025	

Note:

1. Normal Voltage =3.8V. ; Battery End Point (BEP) =3.3 V. ; Maximum Voltage =4.3V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Carl Ni	Temperature :	23~25°C
		Relative Humidity :	41~42%

LTE Band 7 / 20MHz / QPSK								
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	5050	-65.01	-25	-40.01	-75.22	3.03	13.24	H
	7578	-64.44	-25	-39.44	-73.89	3.56	13.01	H
	10107	-60.85	-25	-35.85	-70.37	3.92	13.44	H
	5050	-64.82	-25	-39.82	-75.03	3.03	13.24	V
	7578	-64.32	-25	-39.32	-73.77	3.56	13.01	V
	10107	-61.14	-25	-36.14	-70.66	3.92	13.44	V

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

LTE Band 12 / 10MHz / QPSK								
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	1406	-65.14	-13	-52.14	-72.11	1.58	10.70	H
	2109	-60.91	-13	-47.91	-69.16	2.102	12.50	H
	2812	-58.64	-13	-45.64	-67.53	2.856	13.90	H
	1406	-65.05	-13	-52.05	-72.02	1.58	10.70	V
	2109	-59.48	-13	-46.48	-67.73	2.10	12.50	V
	2812	-58.39	-13	-45.39	-67.28	2.86	13.90	V

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

LTE Band 13 / 5MHz / QPSK								
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	1560	-64.89	-42.15	-22.74	-67.52	1.09	5.87	H
	2339.25	-60.83	-13	-47.83	-63.23	1.37	5.92	H
	3120	-59.13	-13	-46.13	-63.02	1.64	7.68	H
	1560	-64.69	-42.15	-22.54	-67.32	1.09	5.87	V
	2339.25	-59.60	-13	-46.60	-62.00	1.37	5.92	V
	3120	-58.79	-13	-45.79	-62.68	1.64	7.68	V

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



LTE Band 13 / 10MHz / QPSK								
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	1555	-65.00	-13	-52.00	-67.63	1.09	5.87	H
	2332.5	-60.94	-13	-47.94	-63.34	1.37	5.92	H
	3110	-59.25	-13	-46.25	-63.14	1.64	7.68	H
	1555	-64.89	-13	-51.89	-67.52	1.09	5.87	V
	2332.5	-60.06	-13	-47.06	-62.46	1.37	5.92	V
	3110	-58.92	-13	-45.92	-62.81	1.64	7.68	V

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

LTE Band 41 / 20MHz / QPSK								
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	5170	-65.00	-25	-40.00	-75.21	3.03	13.24	H
	7752	-63.80	-25	-38.80	-73.25	3.56	13.01	H
	10332	-59.81	-25	-34.81	-69.33	3.92	13.44	H
	5170	-64.92	-25	-39.92	-75.13	3.03	13.24	V
	7752	-63.84	-25	-38.84	-73.29	3.56	13.01	V
	10332	-59.76	-25	-34.76	-69.28	3.92	13.44	V

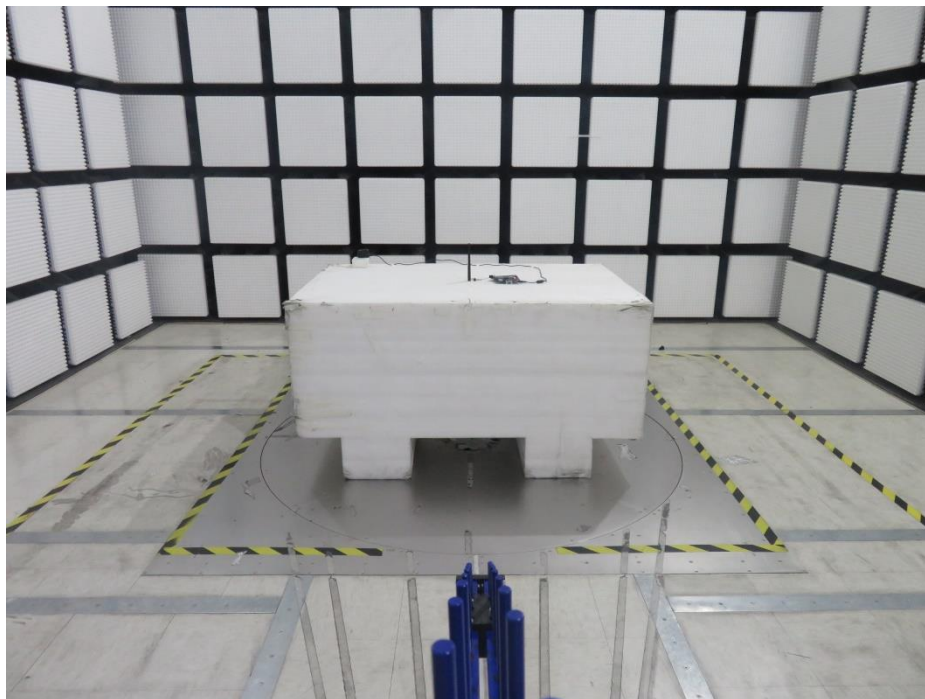
Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Appendix C. Setup Photographs

<Radiated Emission>

Y Plane

LF



HF

