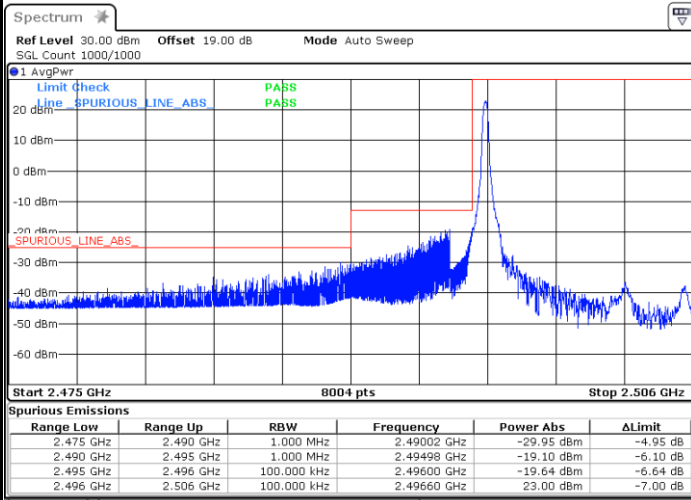




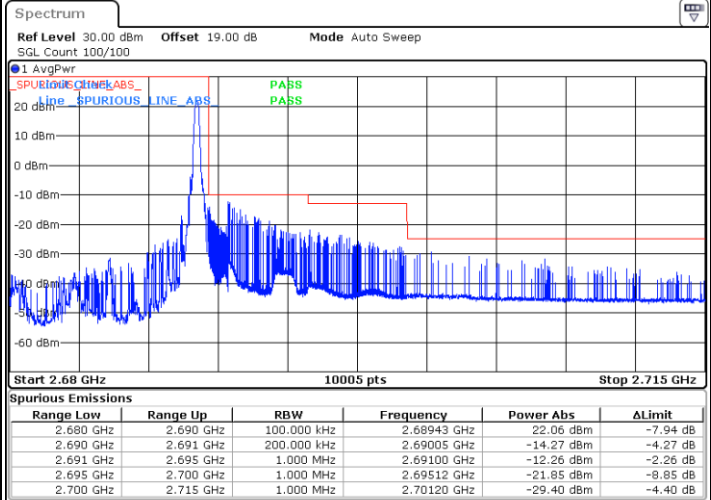
LTE Band 41 / 10MHz / QPSK

Lowest Band Edge / 1 RB



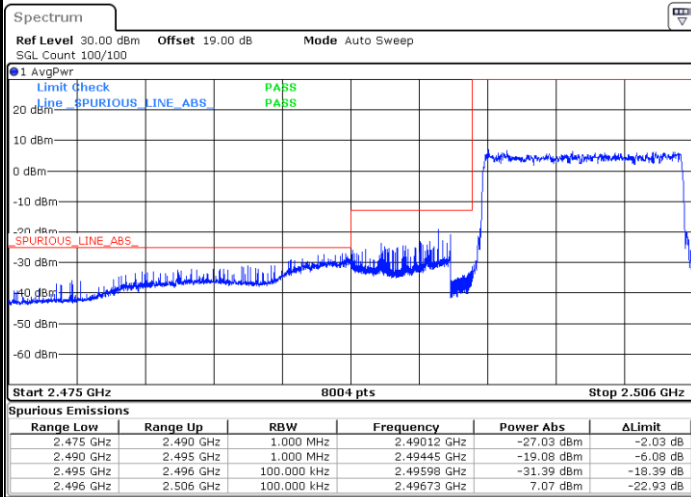
Date: 8.JUL.2021 21:32:14

Highest Band Edge / 1 RB



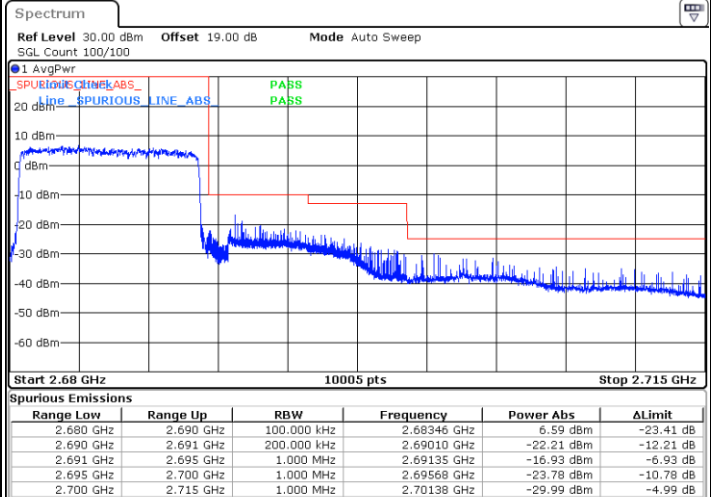
Date: 8.JUL.2021 21:33:17

Lowest Band Edge / Full RB



Date: 8.JUL.2021 21:28:15

Highest Band Edge / Full RB

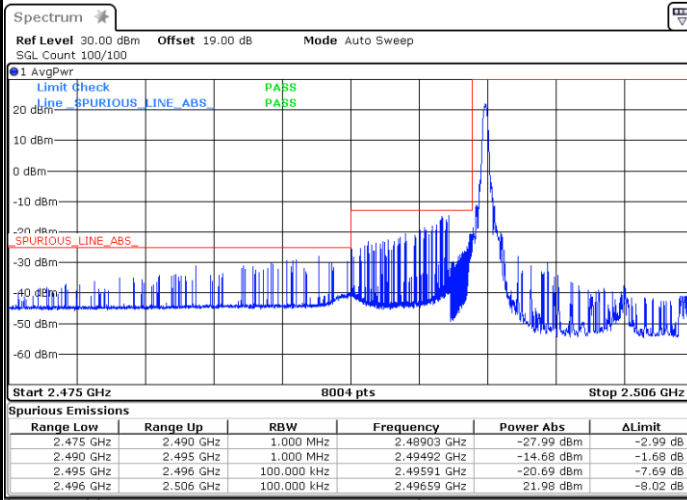


Date: 8.JUL.2021 21:36:13



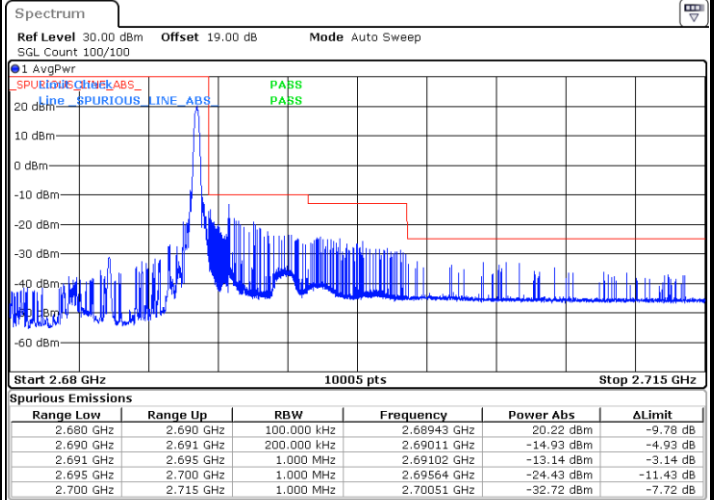
LTE Band 41 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



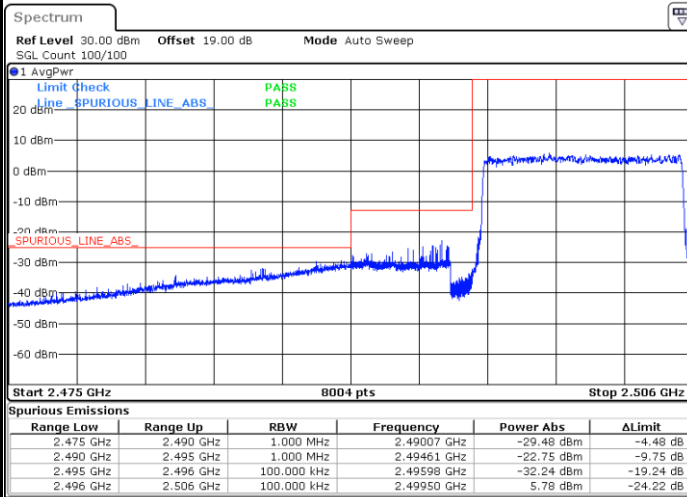
Date: 8.JUL.2021 21:31:03

Highest Band Edge / 1 RB



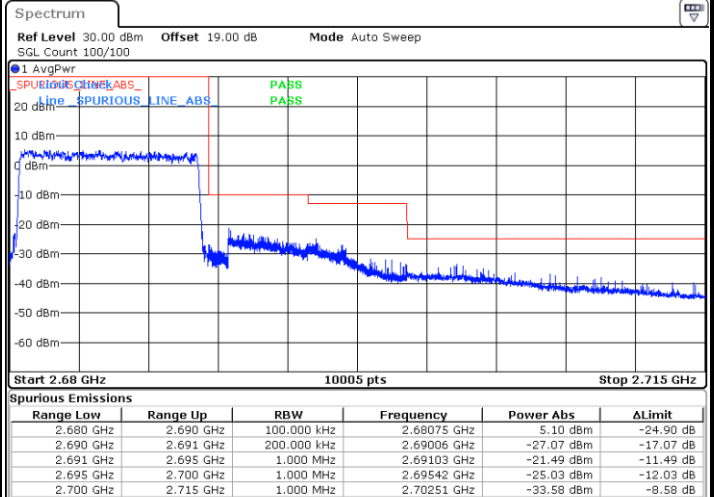
Date: 8.JUL.2021 21:33:40

Lowest Band Edge / Full RB



Date: 8.JUL.2021 21:28:32

Highest Band Edge / Full RB

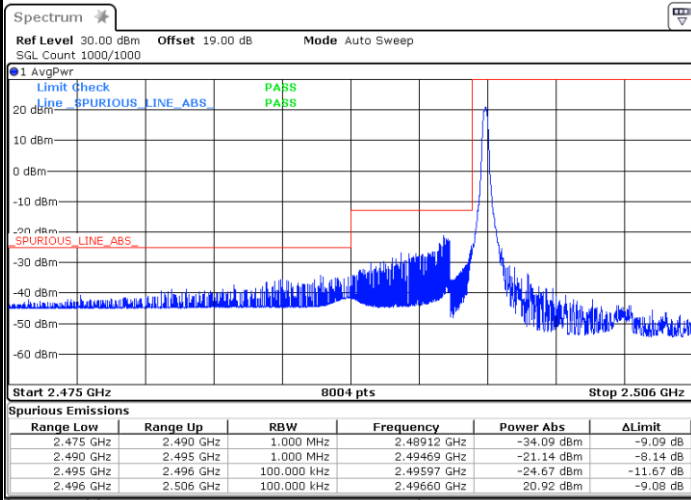


Date: 8.JUL.2021 21:35:13



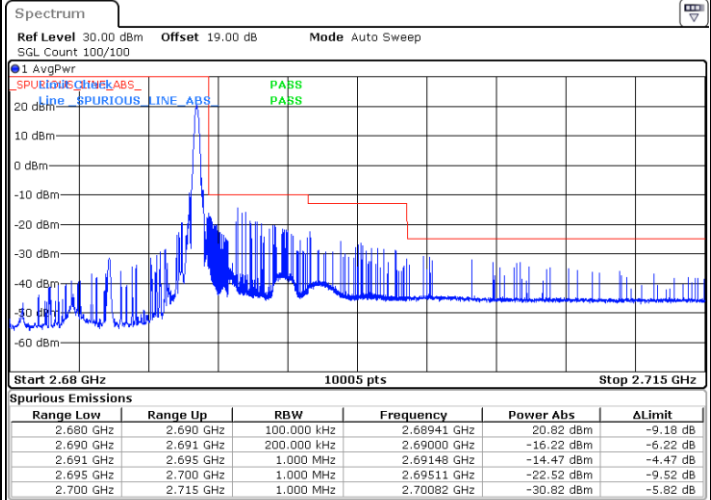
LTE Band 41 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



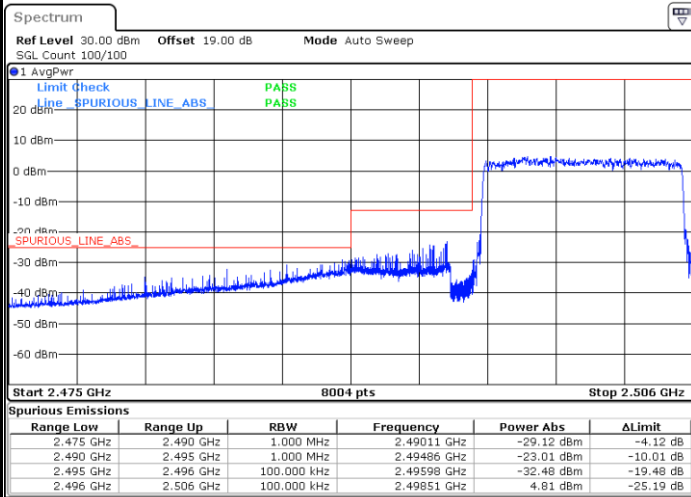
Date: 8.JUL.2021 21:30:25

Highest Band Edge / 1 RB



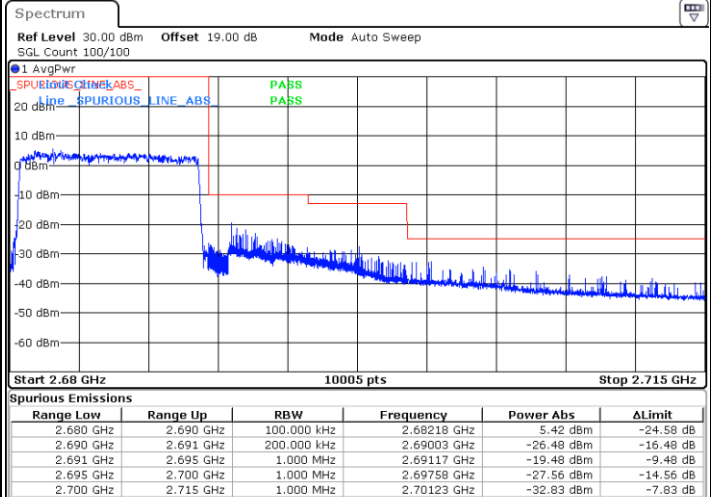
Date: 8.JUL.2021 21:34:21

Lowest Band Edge / Full RB



Date: 8.JUL.2021 21:28:52

Highest Band Edge / Full RB

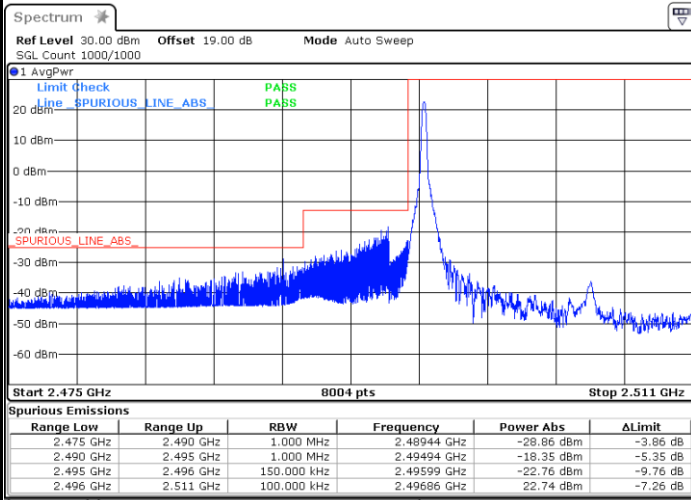


Date: 8.JUL.2021 21:34:41



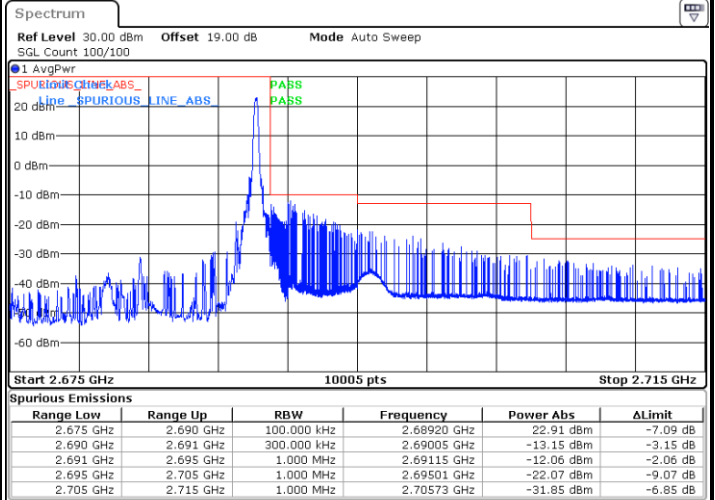
LTE Band 41 / 15MHz / QPSK

Lowest Band Edge / 1 RB



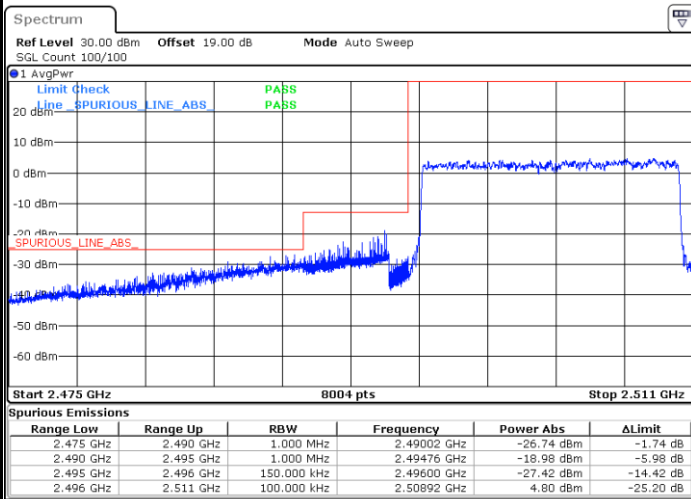
Date: 8.JUL.2021 21:22:10

Highest Band Edge / 1 RB



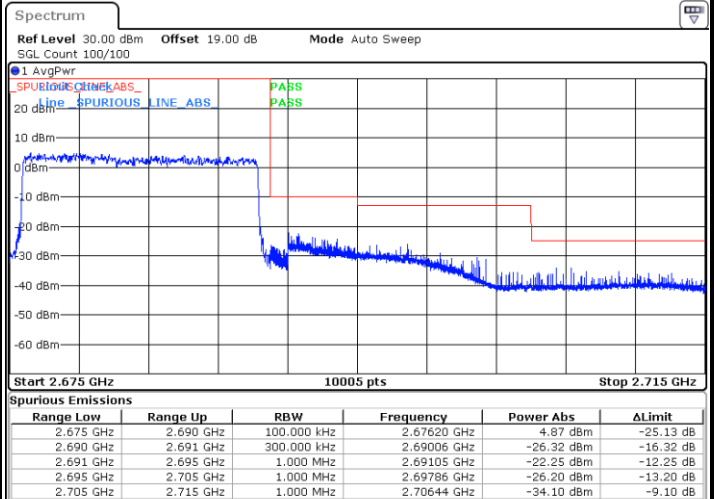
Date: 8.JUL.2021 21:22:52

Lowest Band Edge / Full RB



Date: 8.JUL.2021 21:17:50

Highest Band Edge / Full RB

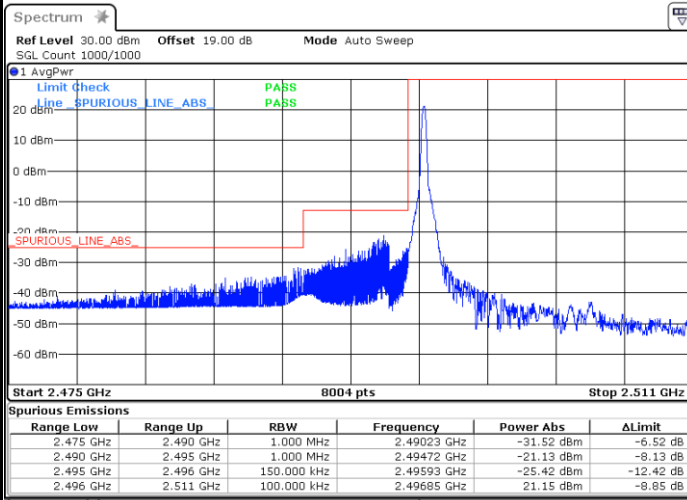


Date: 8.JUL.2021 21:26:16



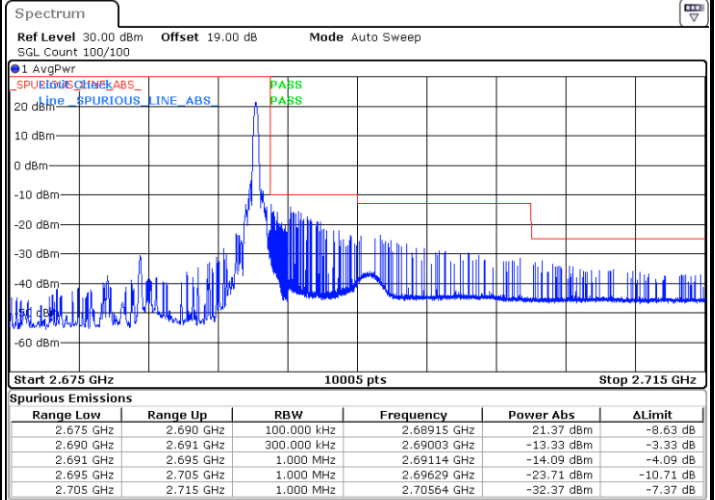
LTE Band 41 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



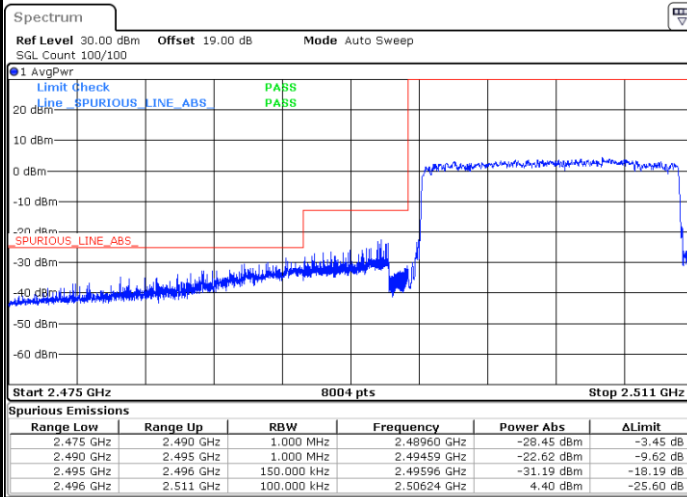
Date: 8.JUL.2021 21:20:39

Highest Band Edge / 1 RB



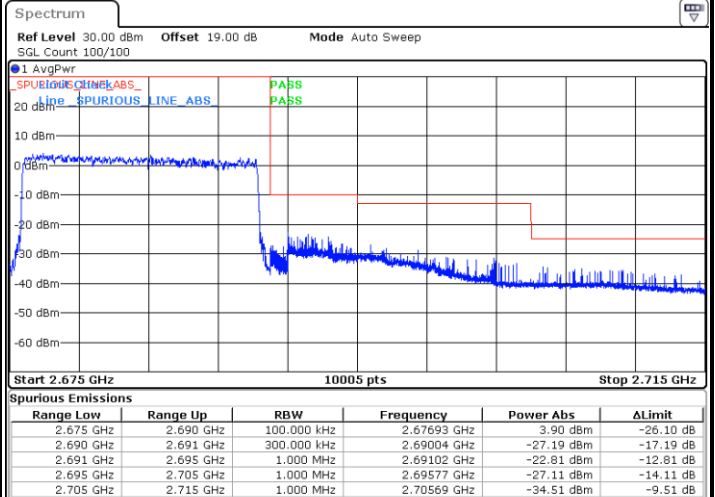
Date: 8.JUL.2021 21:23:33

Lowest Band Edge / Full RB



Date: 8.JUL.2021 21:18:19

Highest Band Edge / Full RB

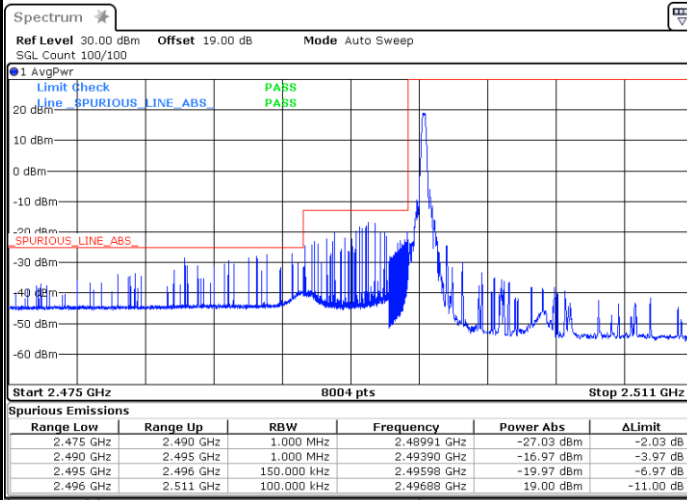


Date: 8.JUL.2021 21:26:03



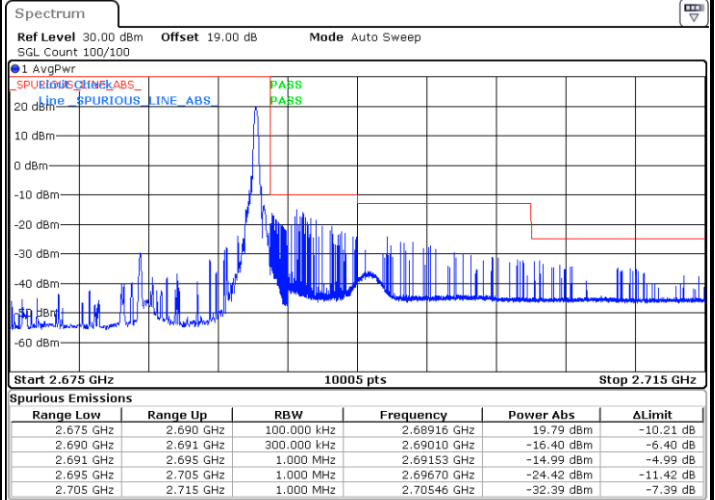
LTE Band 41 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



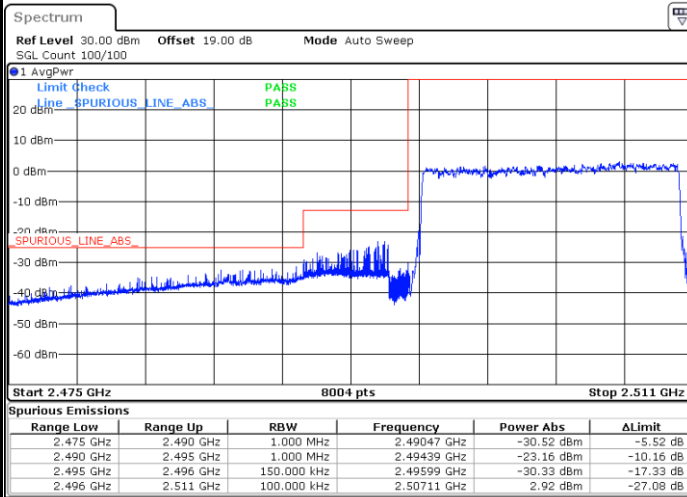
Date: 8.JUL.2021 21:19:17

Highest Band Edge / 1 RB



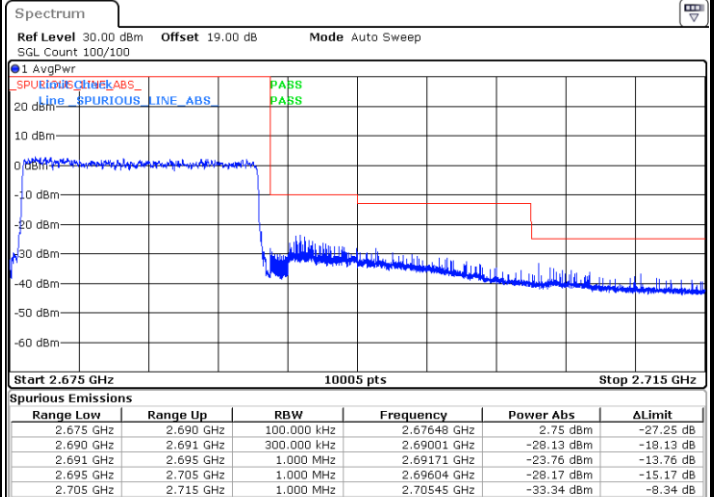
Date: 8.JUL.2021 21:24:01

Lowest Band Edge / Full RB



Date: 8.JUL.2021 21:18:40

Highest Band Edge / Full RB

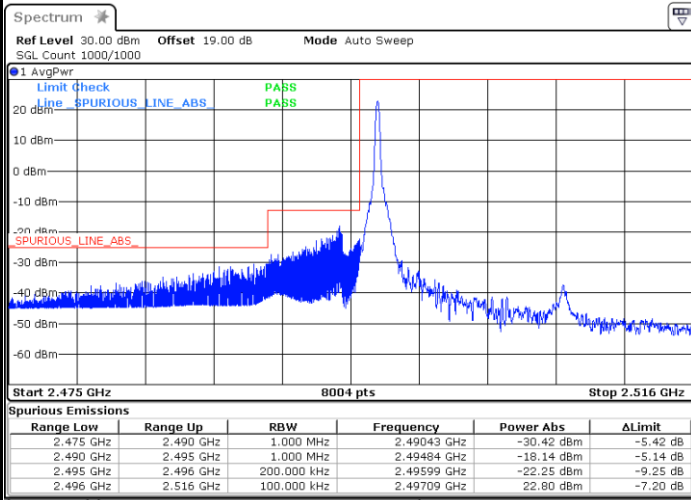


Date: 8.JUL.2021 21:25:44



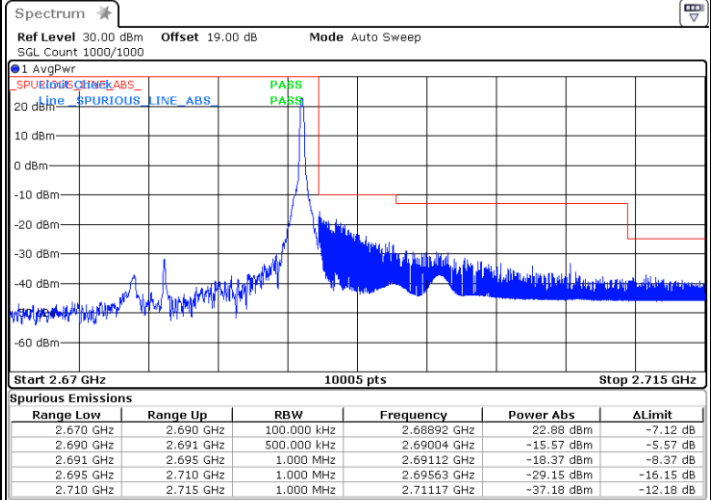
LTE Band 41 / 20MHz / QPSK

Lowest Band Edge / 1 RB



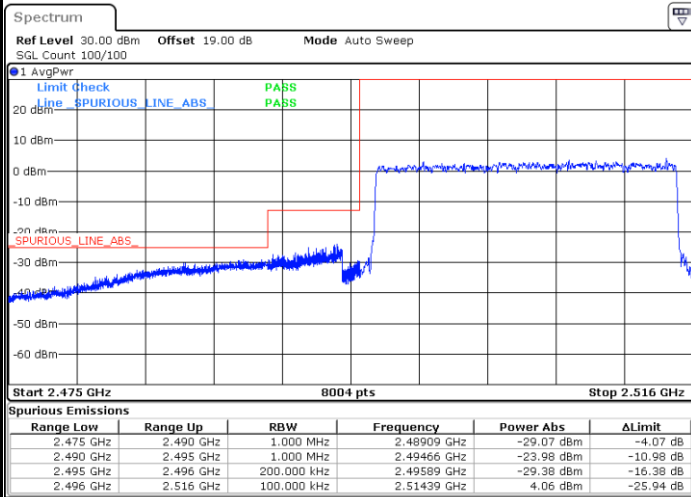
Date: 8.JUL.2021 21:07:54

Highest Band Edge / 1 RB



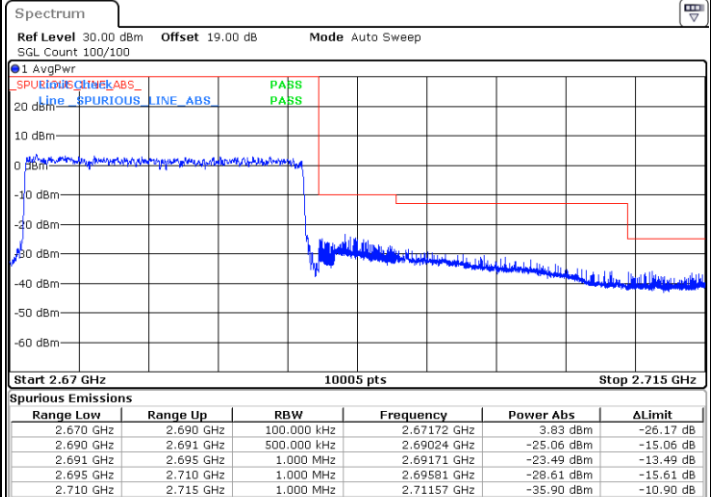
Date: 8.JUL.2021 21:09:47

Lowest Band Edge / Full RB



Date: 8.JUL.2021 21:03:40

Highest Band Edge / Full RB



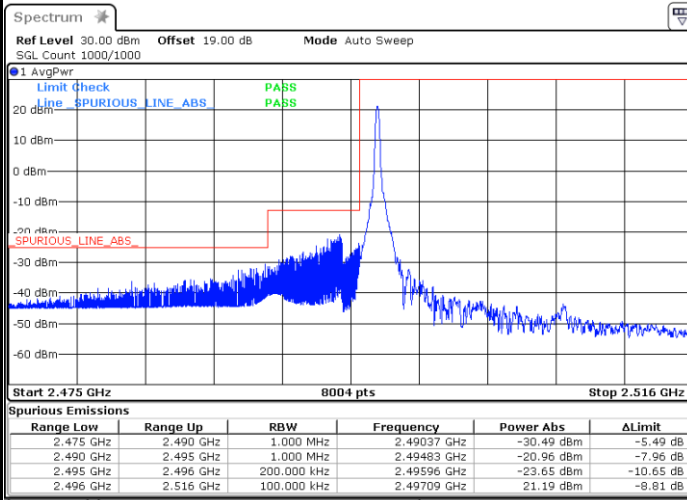
Date: 8.JUL.2021 21:15:34





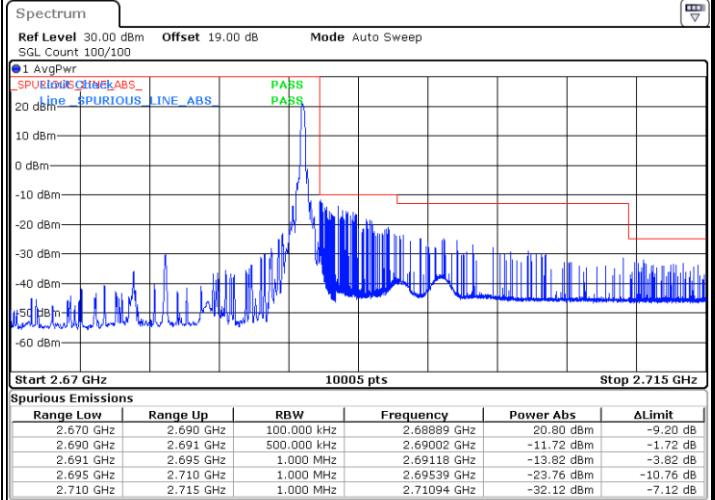
LTE Band 41 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



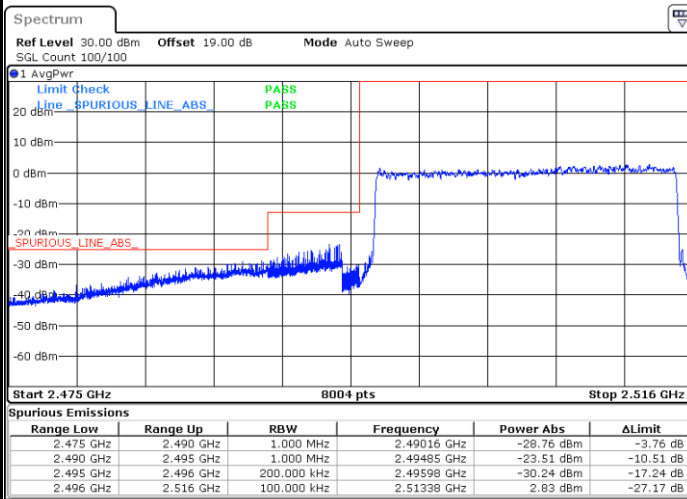
Date: 8.JUL.2021 21:06:51

Highest Band Edge / 1 RB



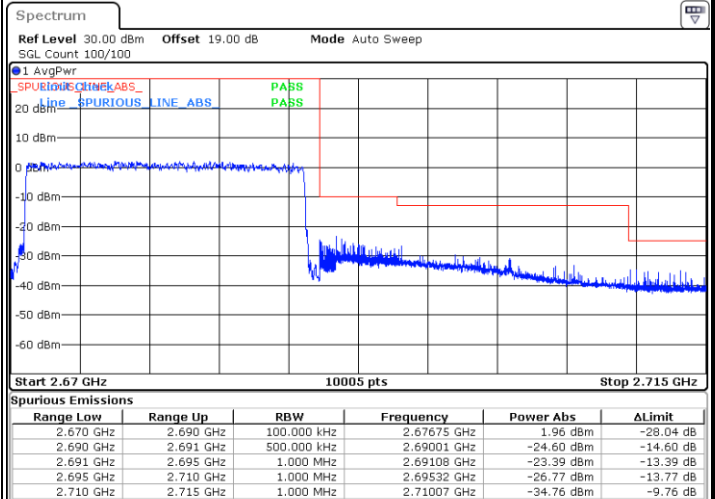
Date: 8.JUL.2021 21:10:43

Lowest Band Edge / Full RB



Date: 8.JUL.2021 21:03:54

Highest Band Edge / Full RB



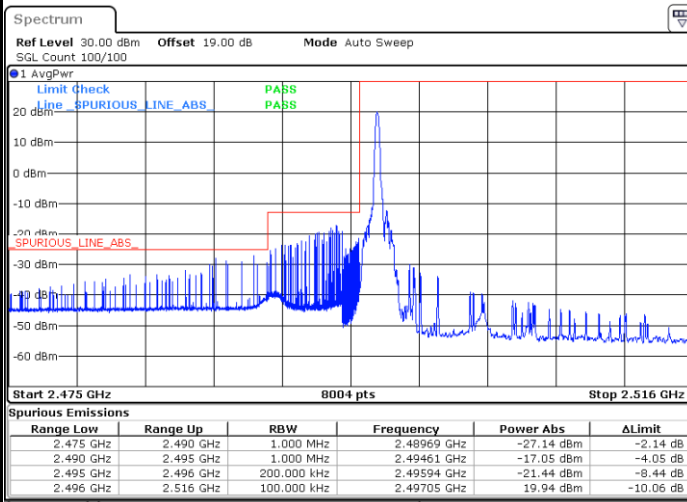
Date: 8.JUL.2021 21:11:55





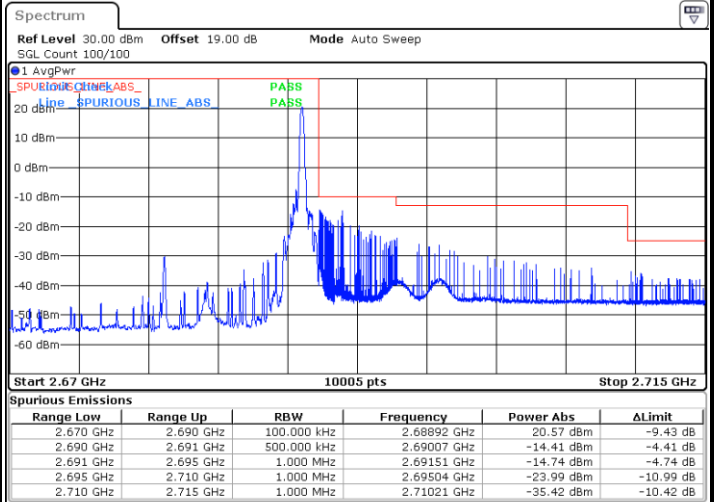
LTE Band 41 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



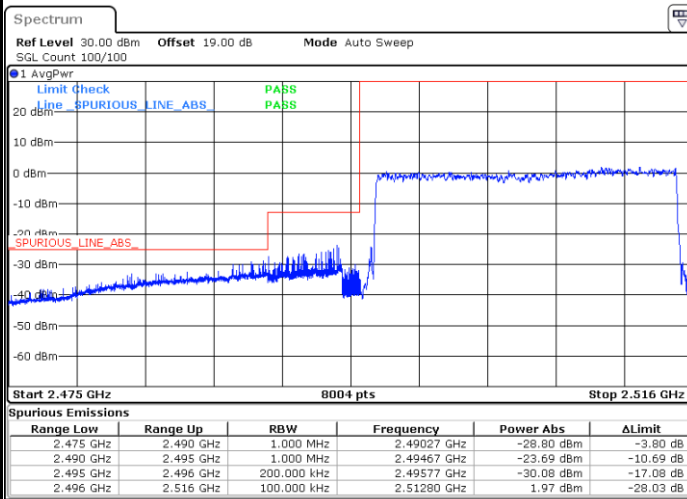
Date: 8.JUL.2021 21:05:19

Highest Band Edge / 1 RB



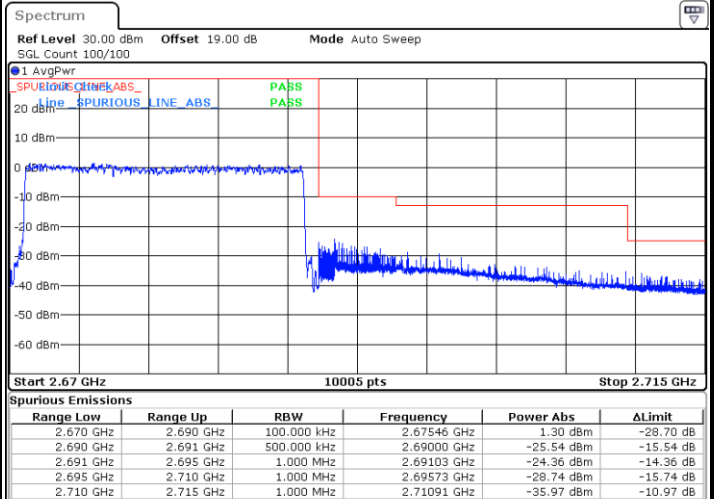
Date: 8.JUL.2021 21:11:04

Lowest Band Edge / Full RB



Date: 8.JUL.2021 21:05:00

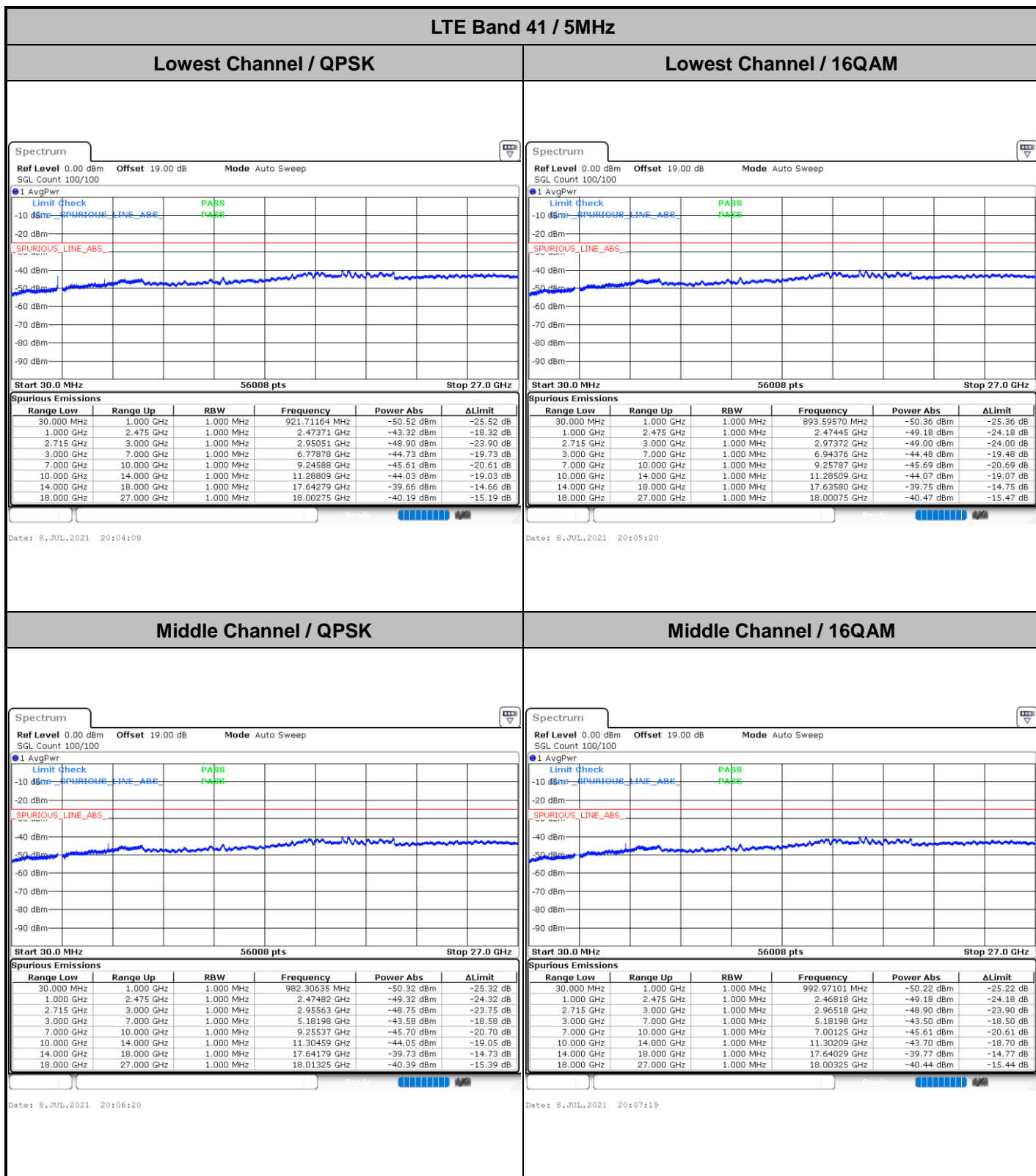
Highest Band Edge / Full RB



Date: 8.JUL.2021 21:13:56



# Conducted Spurious Emission

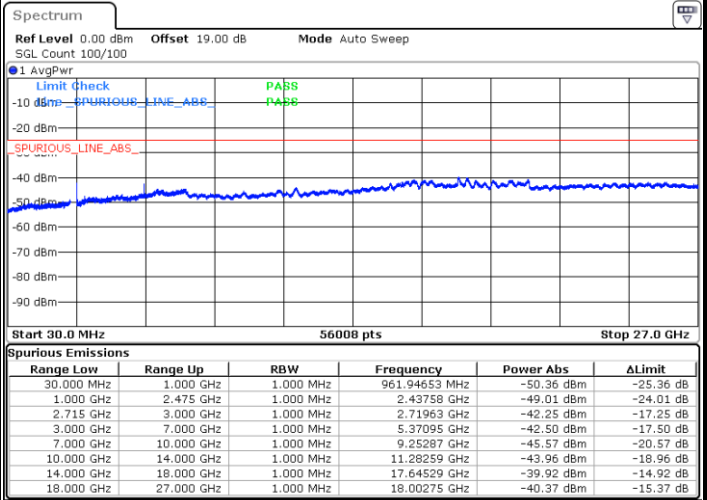
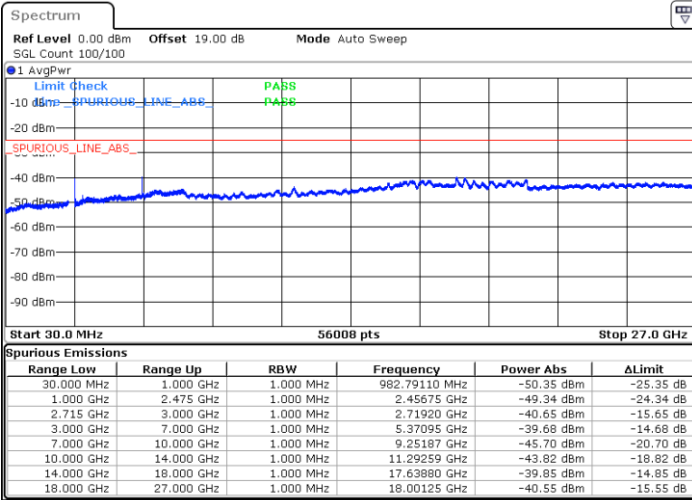




LTE Band 41 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



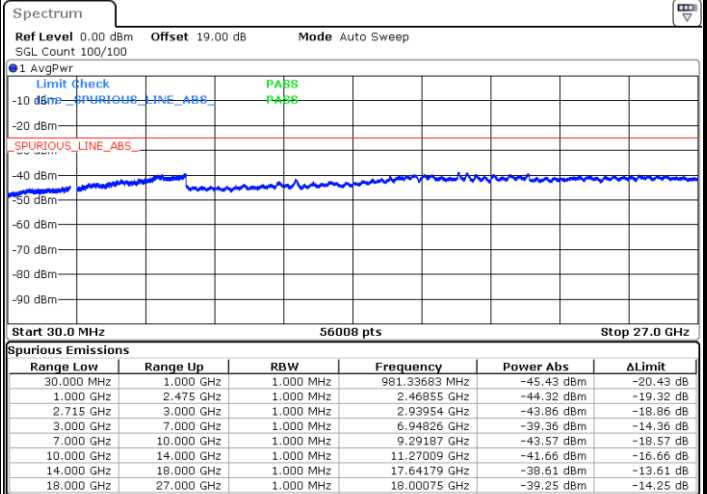
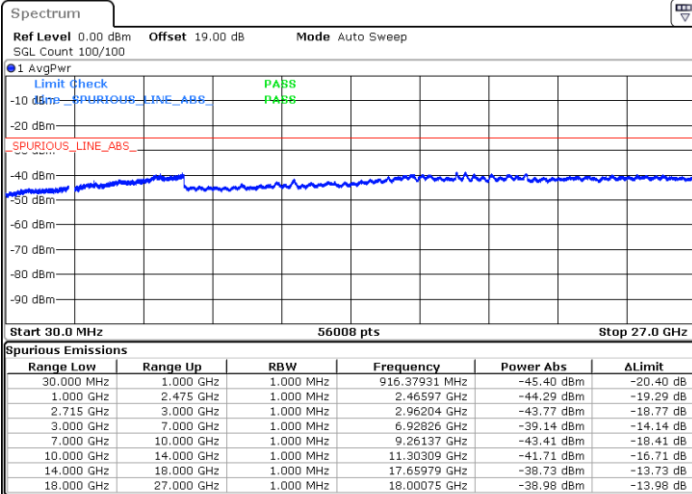
Date: 8.JUL.2021 20:08:19

Date: 8.JUL.2021 20:09:18

LTE Band 41 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 8.JUL.2021 20:16:14

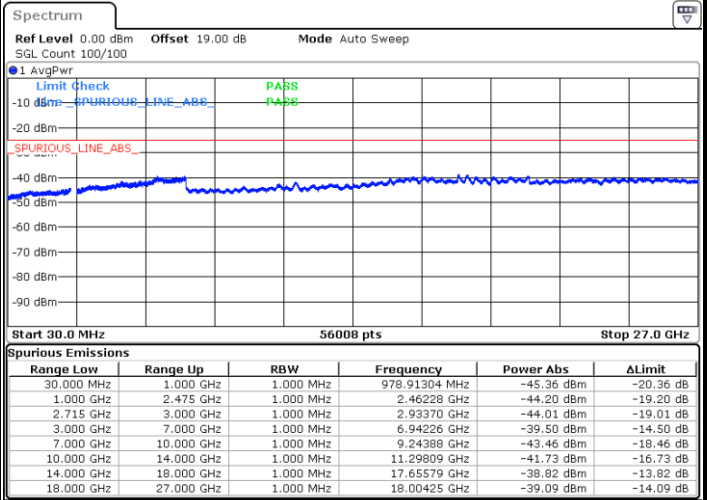
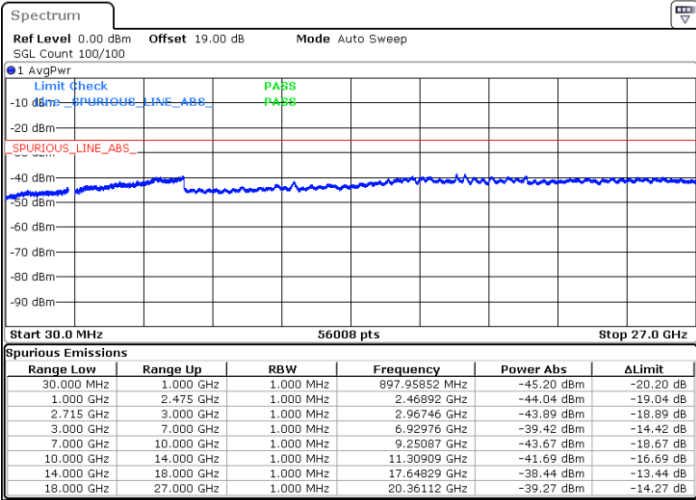
Date: 8.JUL.2021 20:17:13



LTE Band 41 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

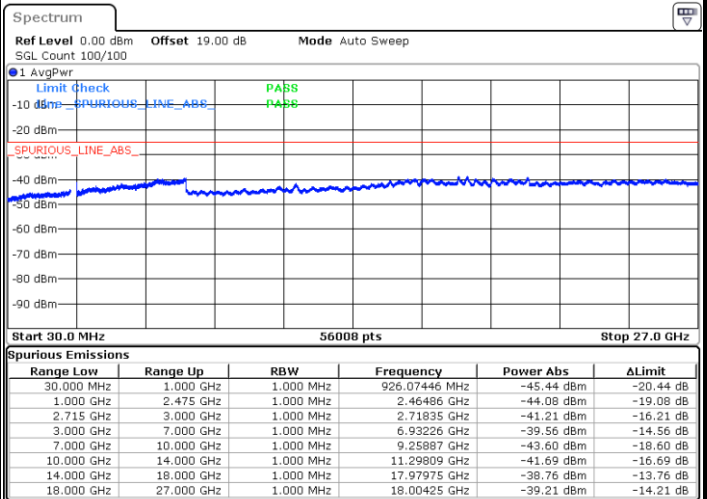
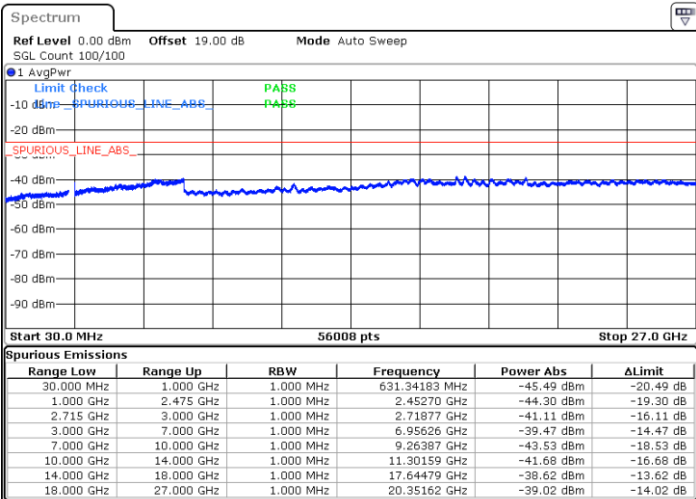


Date: 8.JUL.2021 20:18:12

Date: 8.JUL.2021 20:19:12

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 8.JUL.2021 20:20:11

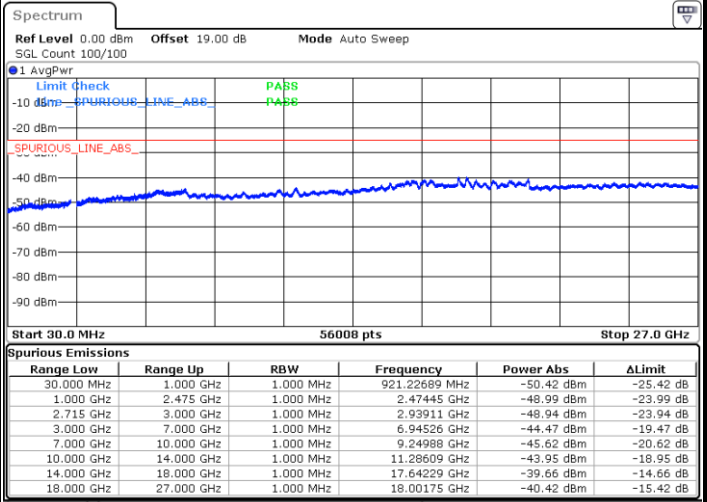
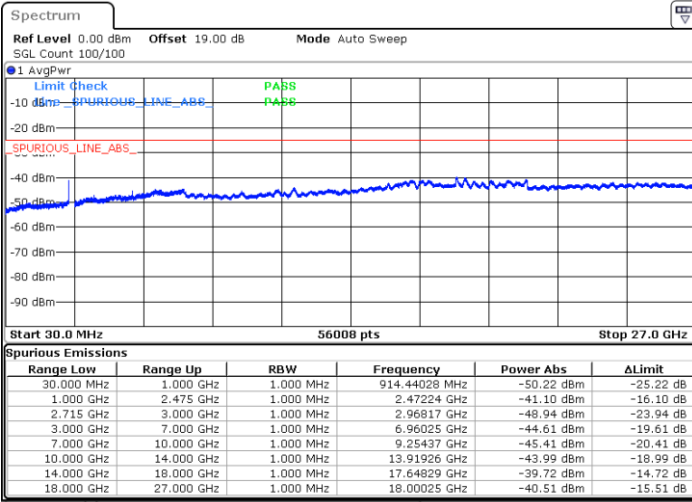
Date: 8.JUL.2021 20:21:11



LTE Band 41 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

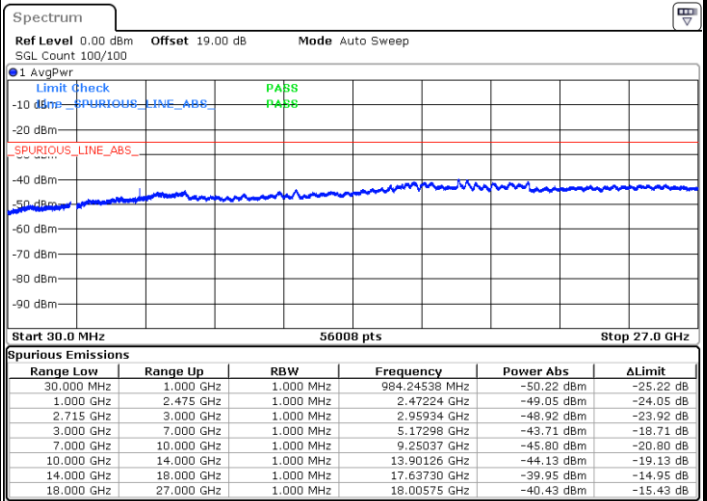
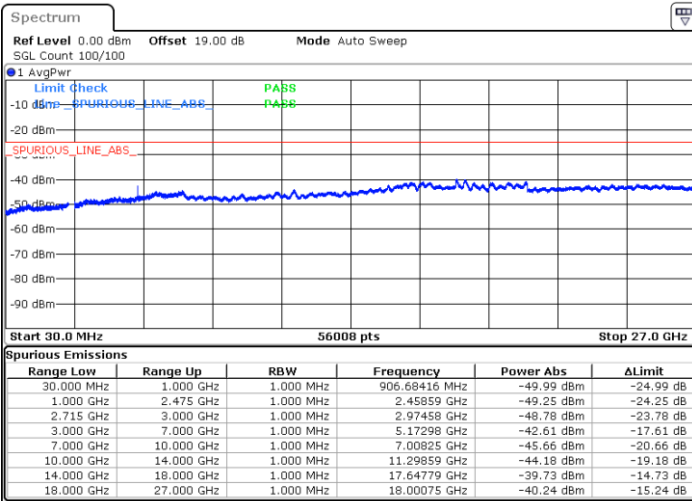


Date: 8.JUL.2021 20:22:10

Date: 8.JUL.2021 20:23:09

Middle Channel / QPSK

Middle Channel / 16QAM



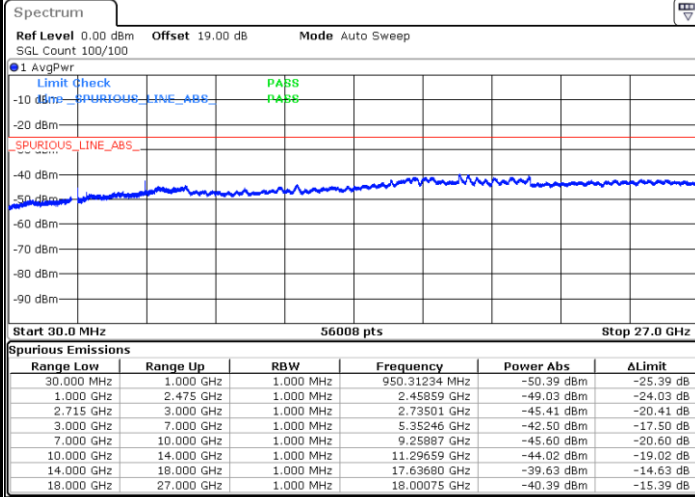
Date: 8.JUL.2021 20:24:09

Date: 8.JUL.2021 20:25:08



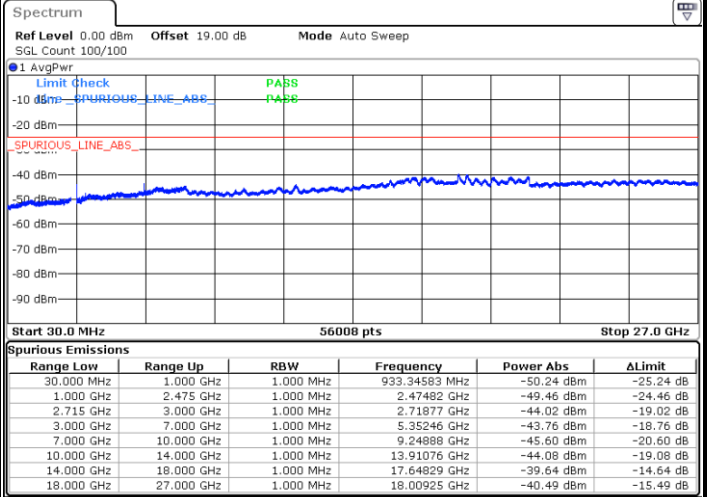
LTE Band 41 / 15MHz

Highest Channel / QPSK



Date: 8.JUL.2021 20:26:08

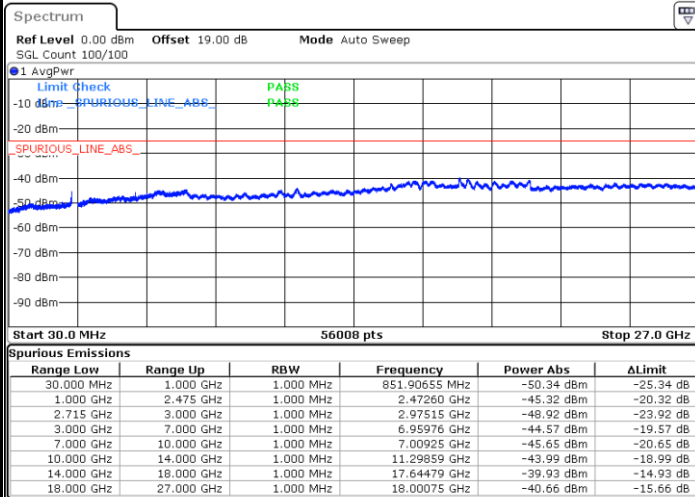
Highest Channel / 16QAM



Date: 8.JUL.2021 20:27:07

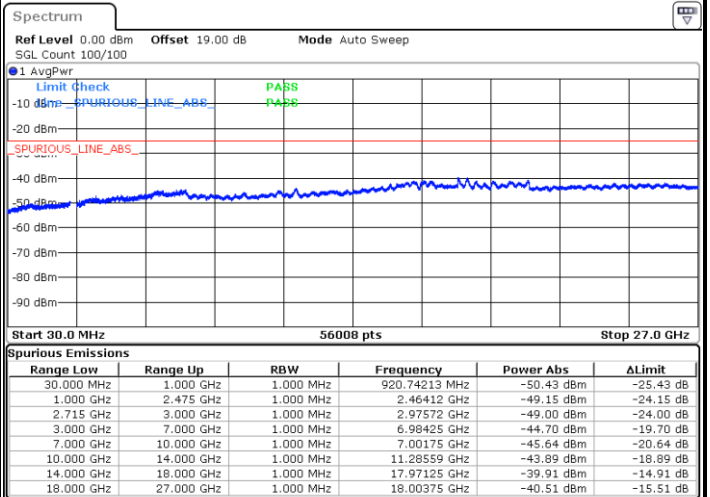
LTE Band 41 / 20MHz

Lowest Channel / QPSK



Date: 8.JUL.2021 20:31:05

Lowest Channel / 16QAM



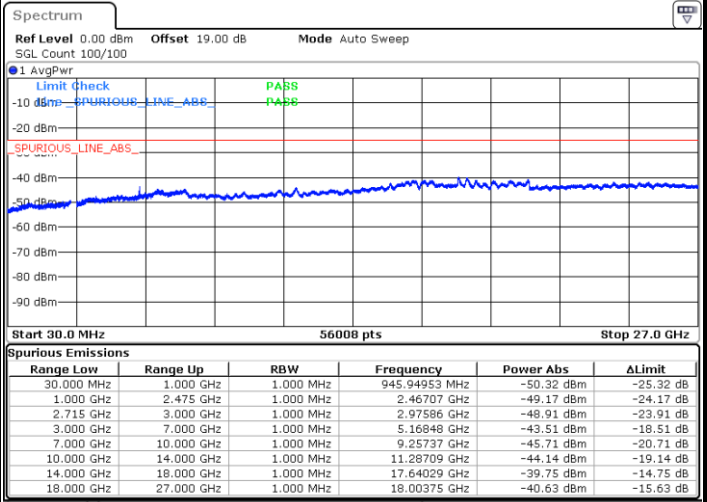
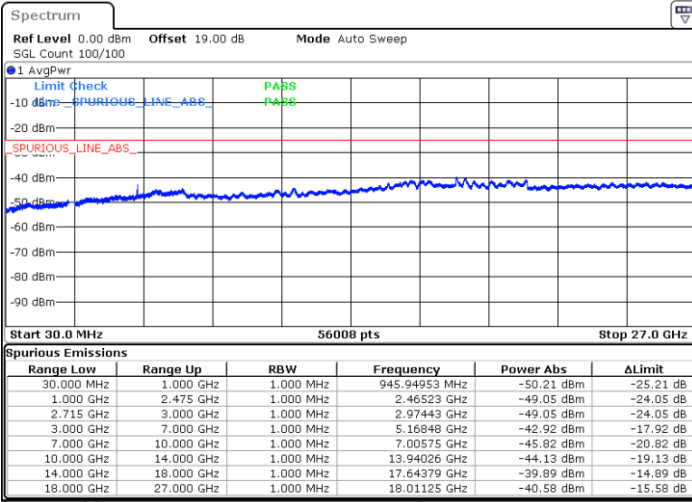
Date: 8.JUL.2021 20:32:04



LTE Band 41 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

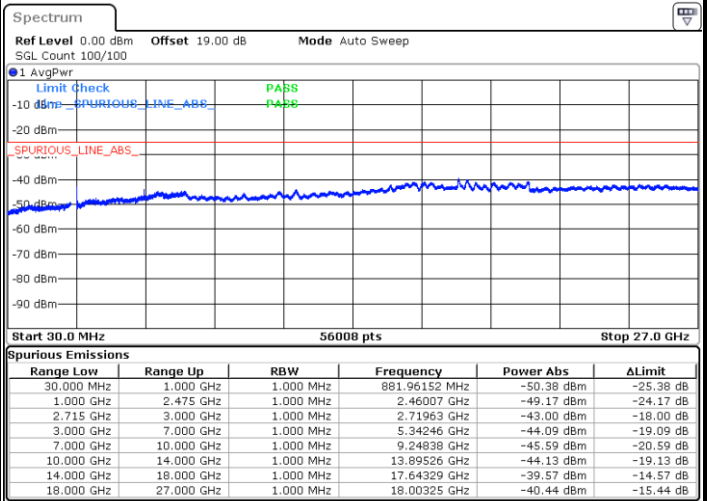
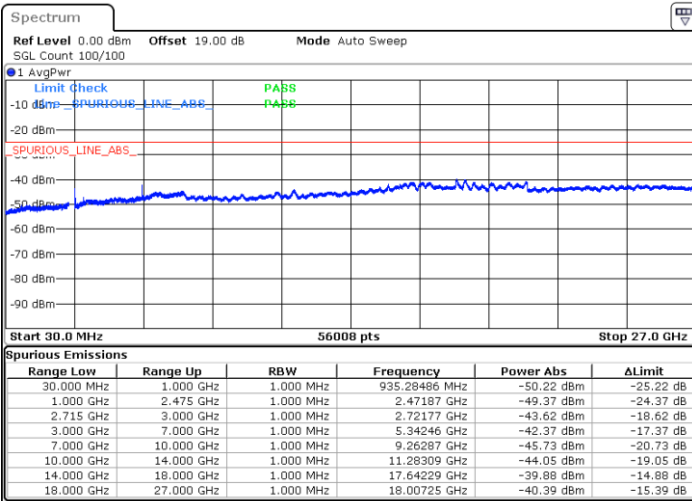


Date: 8.JUL.2021 20:33:03

Date: 8.JUL.2021 20:34:03

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 8.JUL.2021 20:35:02

Date: 8.JUL.2021 20:36:02

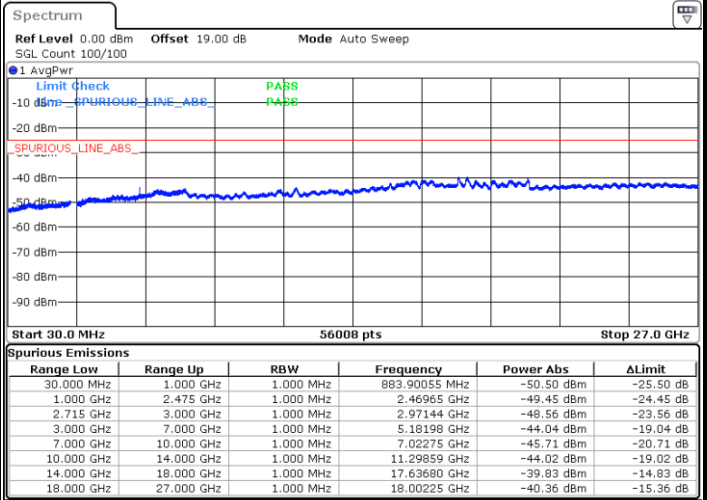
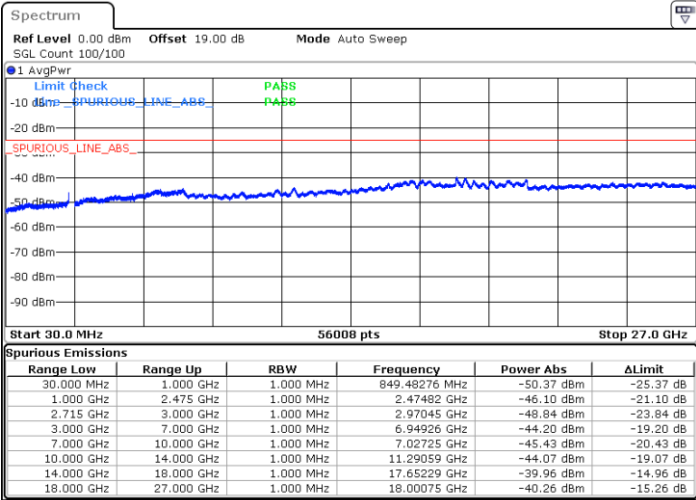




LTE Band 41 / 5MHz

Lowest Channel / 64QAM

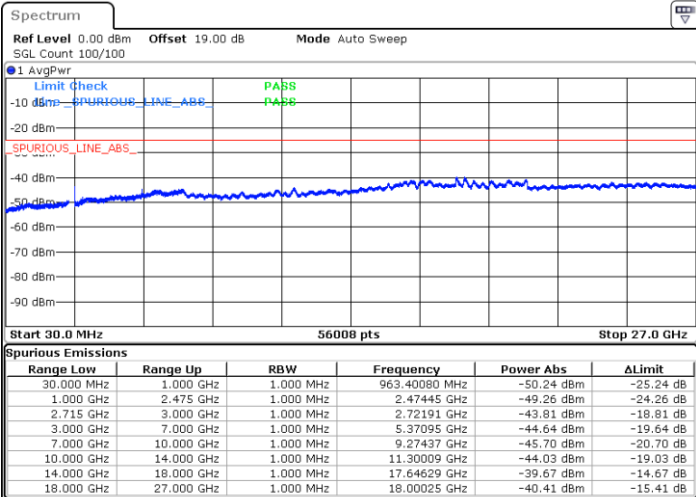
Middle Channel / 64QAM



Date: 8.JUL.2021 20:10:17

Date: 8.JUL.2021 20:11:17

Highest Channel / 64QAM



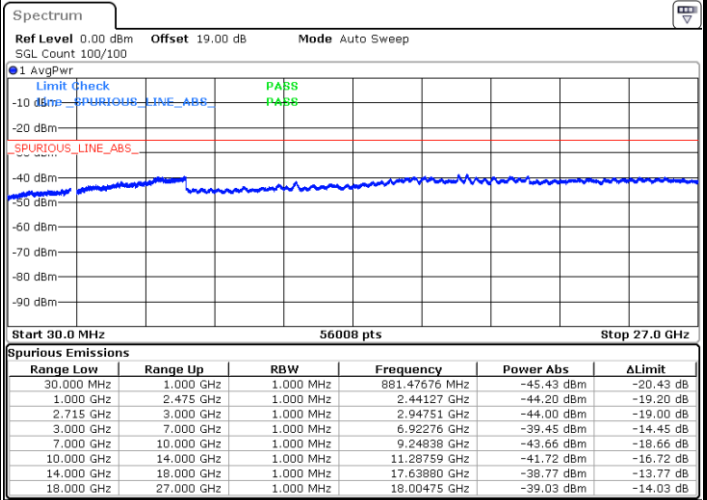
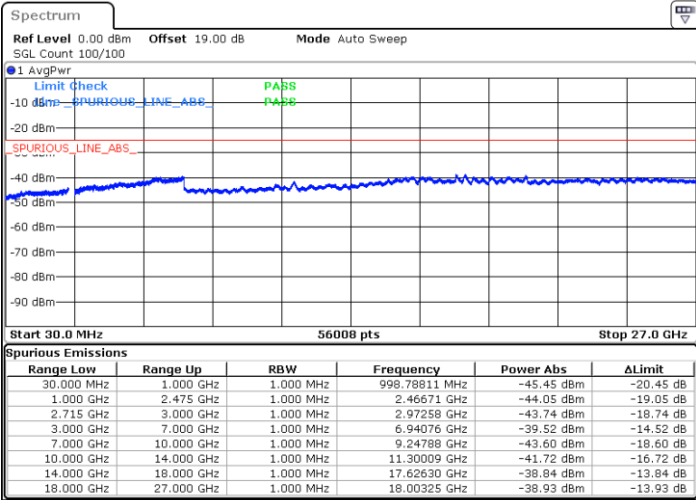
Date: 8.JUL.2021 20:12:16



LTE Band 41 / 10MHz

Lowest Channel / 64QAM

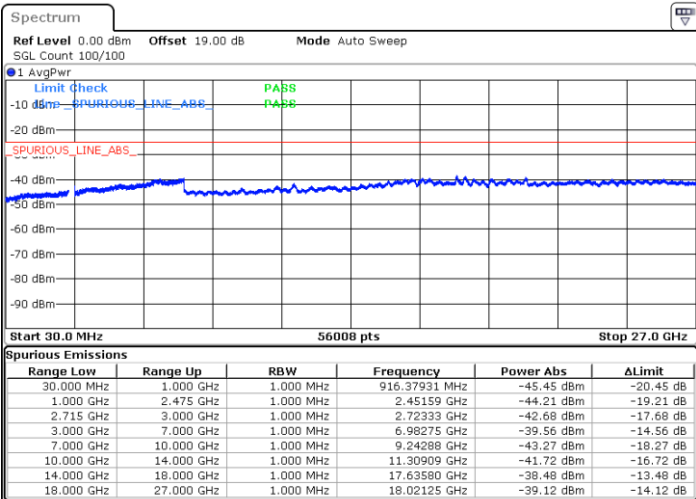
Middle Channel / 64QAM



Date: 8.JUL.2021 20:13:15

Date: 8.JUL.2021 20:14:15

Highest Channel / 64QAM



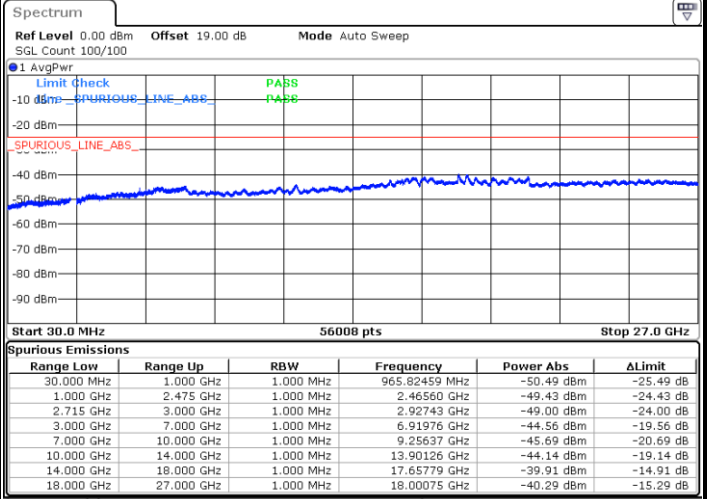
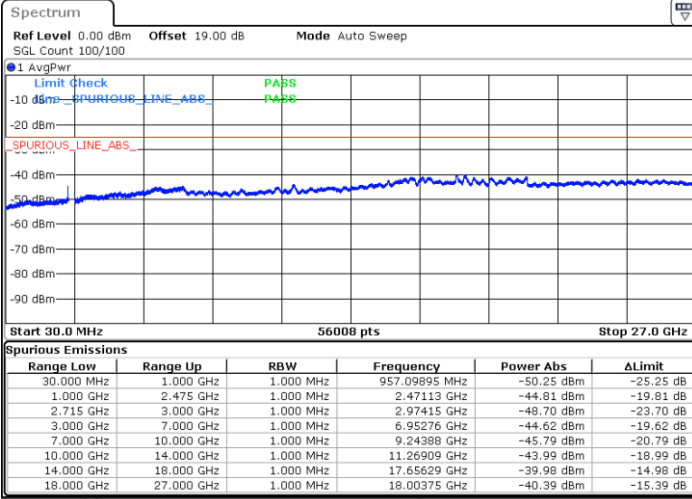
Date: 8.JUL.2021 20:15:14



LTE Band 41 / 15MHz

Lowest Channel / 64QAM

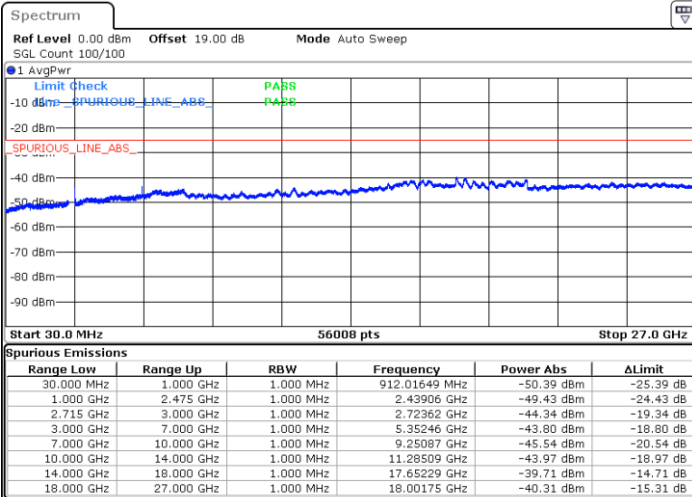
Middle Channel / 64QAM



Date: 8.JUL.2021 20:28:06

Date: 8.JUL.2021 20:29:06

Highest Channel / 64QAM



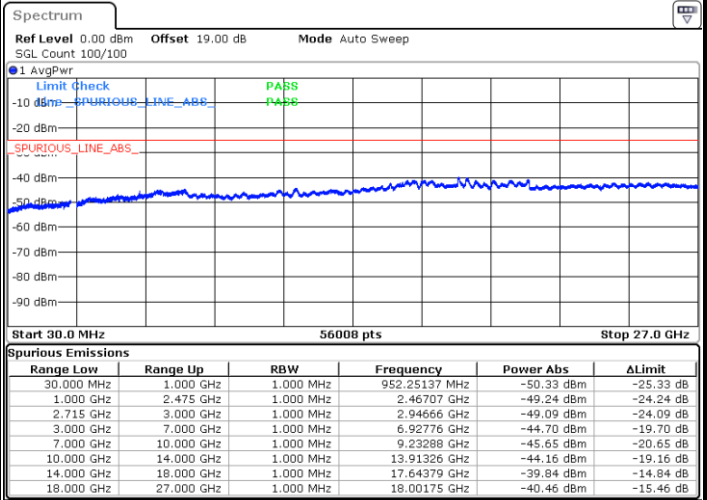
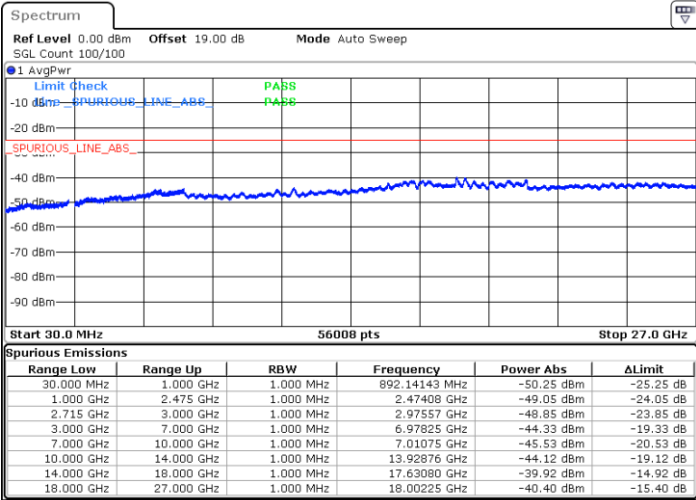
Date: 8.JUL.2021 20:30:05



LTE Band 41 / 20MHz

Lowest Channel / 64QAM

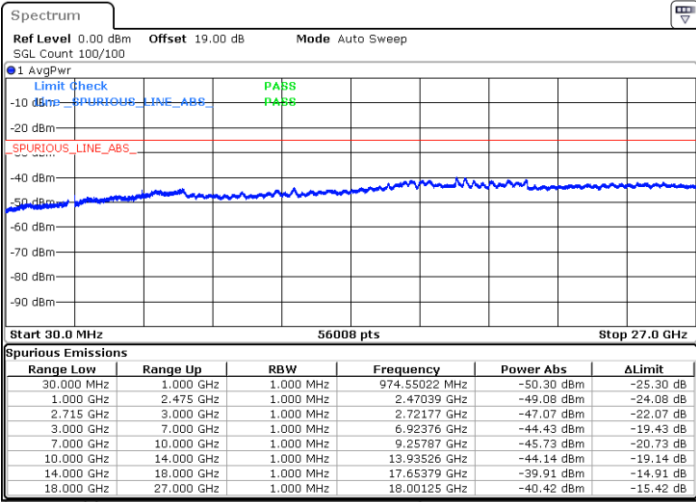
Middle Channel / 64QAM



Date: 8.JUL.2021 20:37:01

Date: 8.JUL.2021 20:38:01

Highest Channel / 64QAM



Date: 8.JUL.2021 20:39:00



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	0.0004	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0003	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0004	

Note:

1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# Appendix B. Test Results of Radiated Test

## Radiated Spurious Emission

LTE Band 7 / 20MHz / QPSK									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5052.18	-57.99	-25	-32.99	-66.00	-63.55	7.14	12.70	H
	7578.27	-44.39	-25	-19.39	-58.30	-47.69	8.30	11.60	H
	10104.36	-50.46	-25	-25.46	-71.14	-51.98	10.48	12.00	H
	5052.18	-57.12	-25	-32.12	-65.32	-62.68	7.14	12.70	V
	7578.27	-40.78	-25	-15.78	-54.87	-44.08	8.30	11.60	V
	10104.36	-51.31	-25	-26.31	-71.65	-52.83	10.48	12.00	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 )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5168.18	-51.35	-25	-26.35	-59.76	-56.91	7.14	12.70	H
	7752.27	-39.78	-25	-14.78	-54.35	-43.08	8.30	11.60	H
	10336.36	-47.84	-25	-22.84	-69.10	-49.36	10.48	12.00	H
	5168.18	-49.27	-25	-24.27	-57.55	-54.83	7.14	12.70	V
	7752.27	-33.59	-25	-8.59	-48.33	-36.89	8.30	11.60	V
	10336.36	-48.12	-25	-23.12	-69.32	-49.64	10.48	12.00	V

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

LTE Band 41C_CA / 20MHz+20MHz / QPSK									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5186.00	-60.92	-25	-35.92	-80.36	-66.48	7.14	12.70	H
	7779.00	-56.20	-25	-31.20	-80.03	-59.50	8.30	11.60	H
	10372.00	-52.43	-25	-27.43	-81.10	-53.95	10.48	12.00	H
	5186.00	-61.10	-25	-36.10	-80.18	-66.66	7.14	12.70	V
	7779.00	-55.80	-25	-30.80	-80.3	-59.10	8.30	11.60	V
	10372.00	-53.51	-25	-28.51	-81.24	-55.03	10.48	12.00	V

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



## **Appendix D. Reference Report**

Please refer to Sporton report number FG151701C which is issued separately.