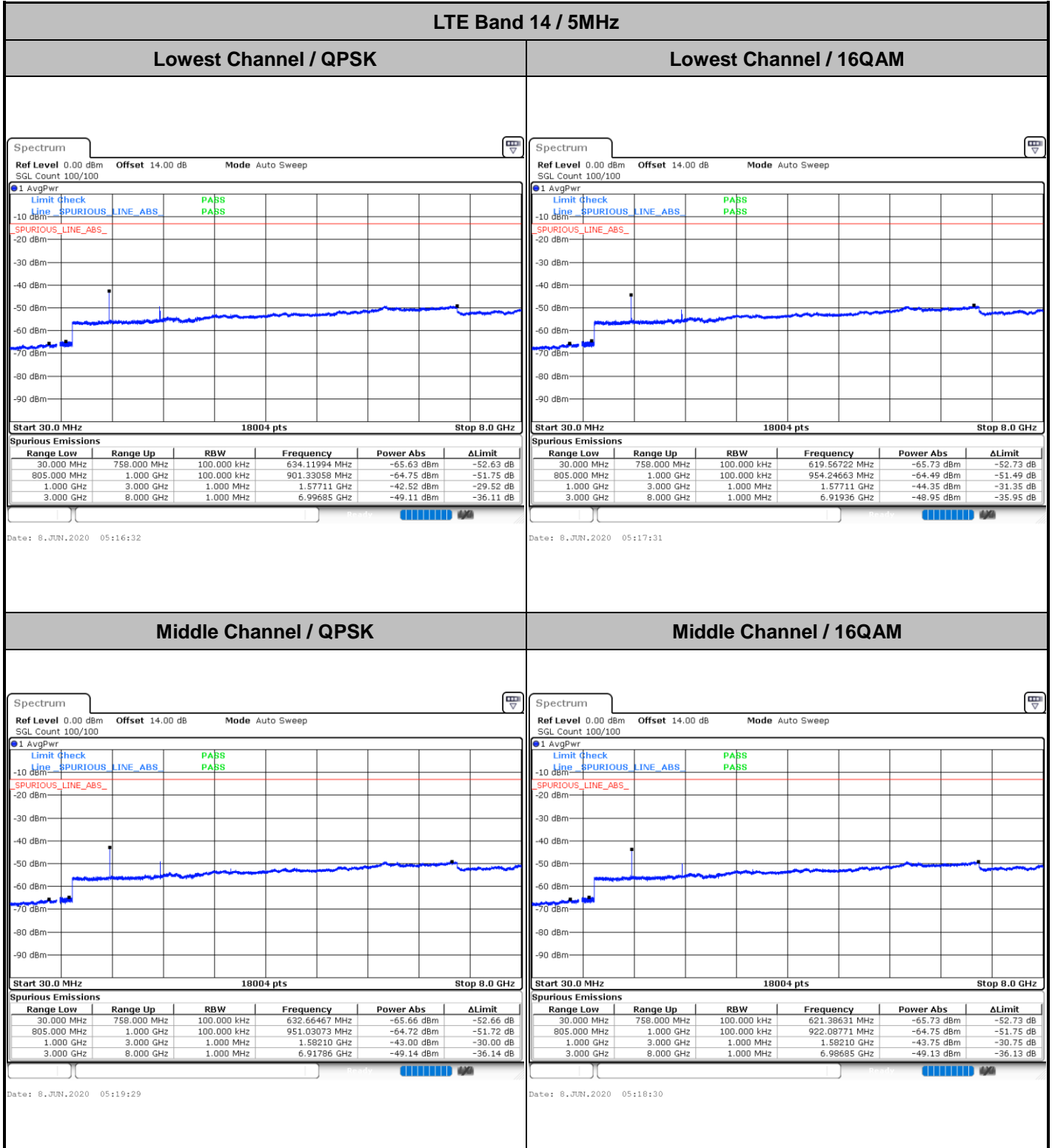
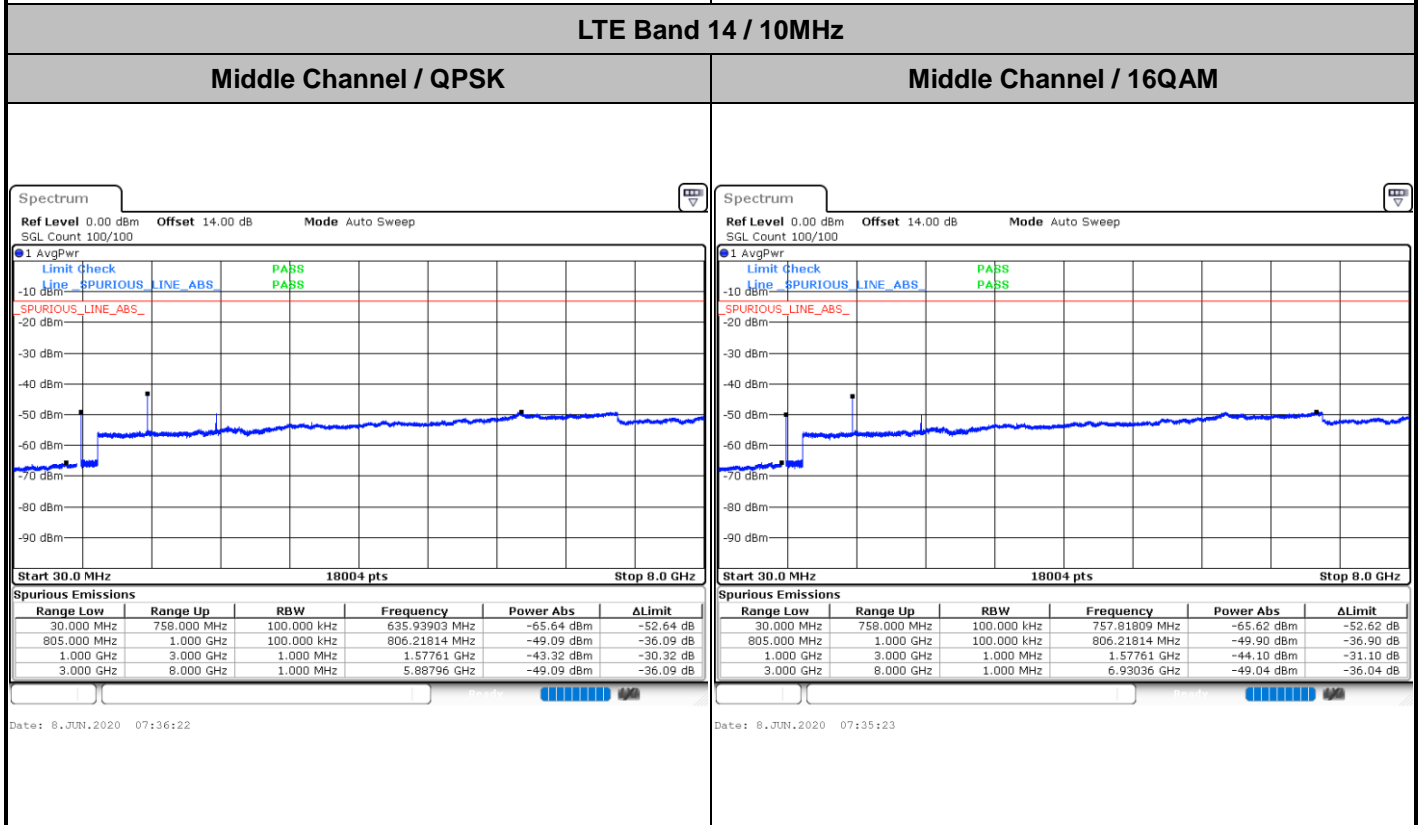
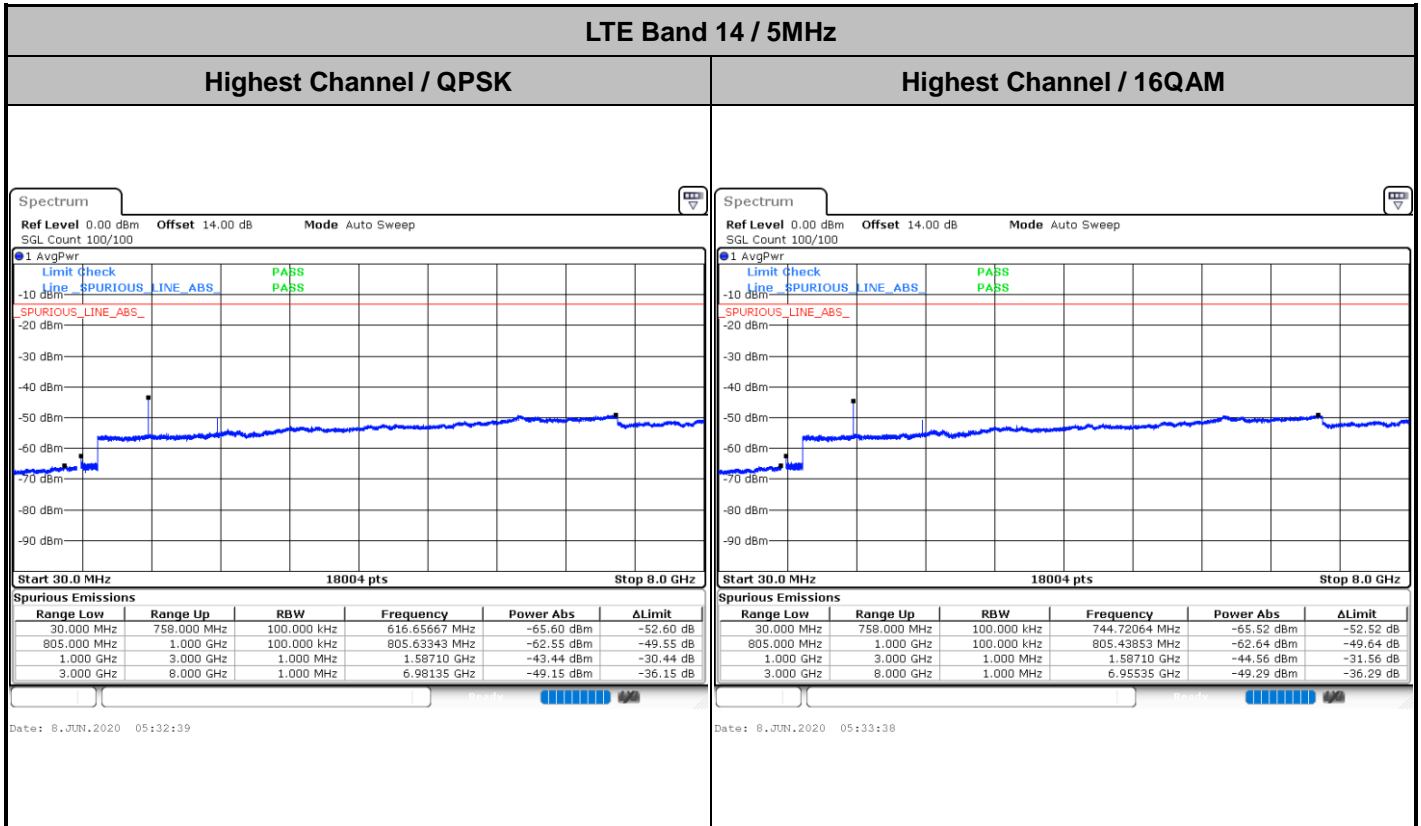


Conducted Spurious Emission



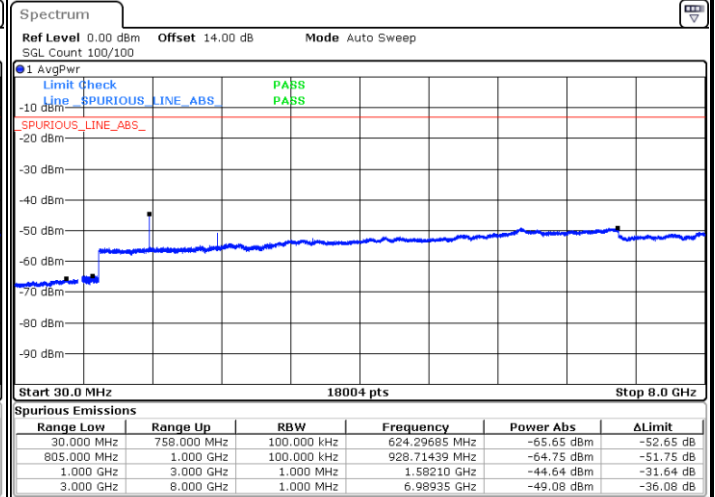
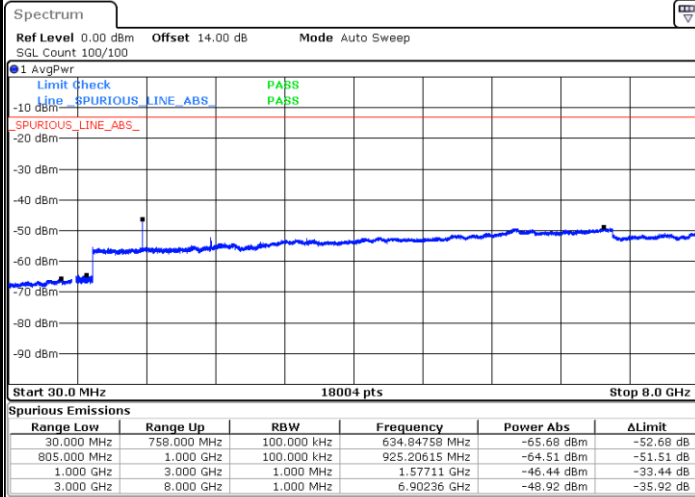




LTE Band 14 / 5MHz

Lowest Channel / 64QAM

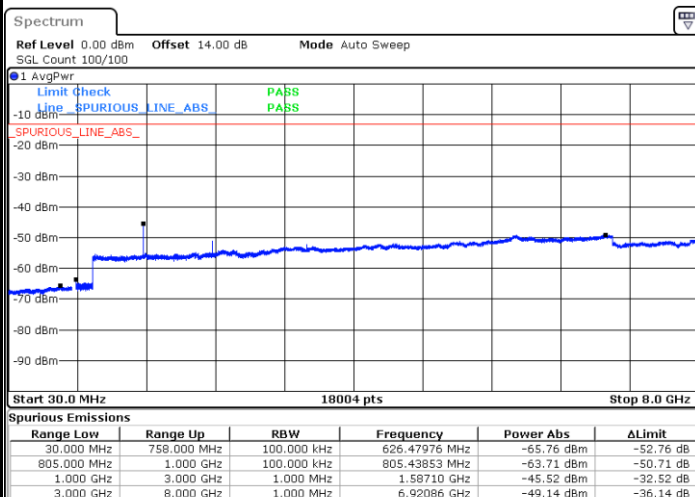
Middle Channel / 64QAM



Date: 8 JUN.2020 05:38:16

Date: 8 JUN.2020 05:39:15

Highest Channel / 64QAM

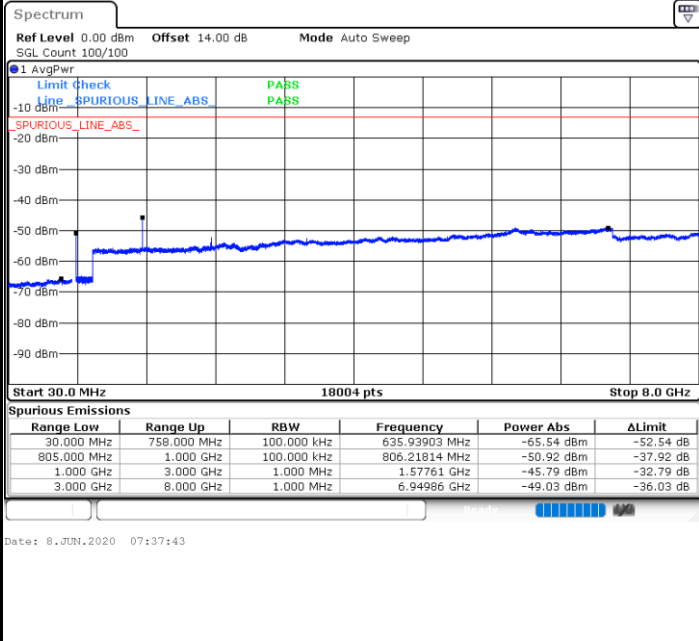


Date: 8 JUN.2020 05:45:37



LTE Band 14 / 10MHz

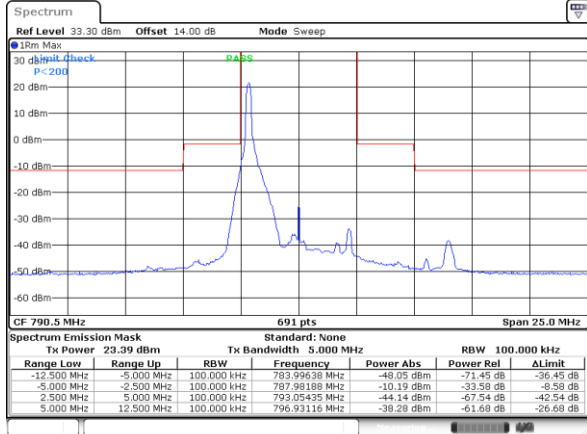
Middle Channel / 64QAM



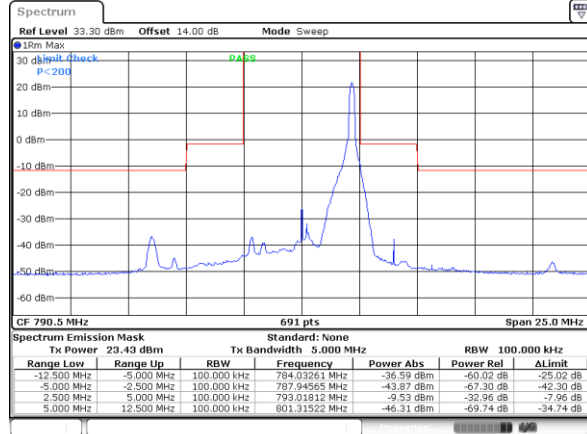
Mask

LTE Band 14 / 5MHz / QPSK

Lowest Channel / 1RB

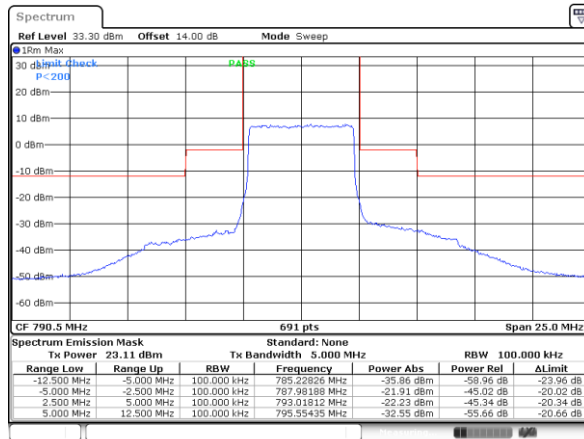


Date: 8 JUN 2020 08:35:03



Date: 8 JUN 2020 08:35:30

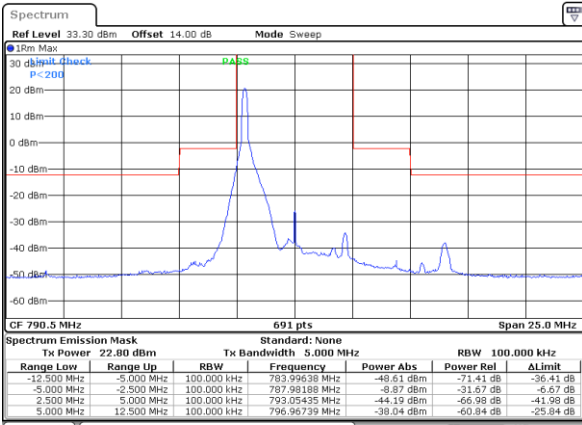
Lowest Channel / Full RB



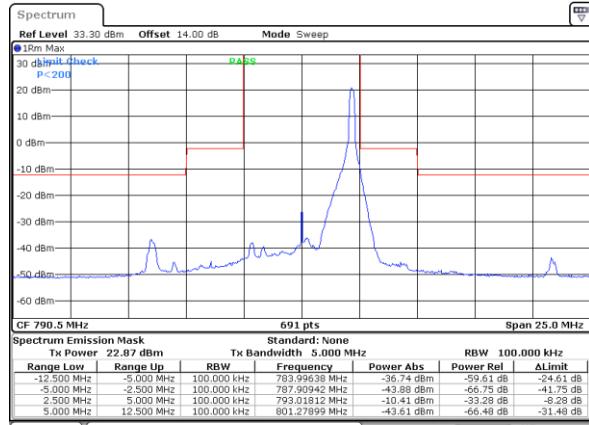
Date: 8 JUN 2020 08:32:45

LTE Band 14 / 5MHz / 16QAM

Lowest Channel / 1RB

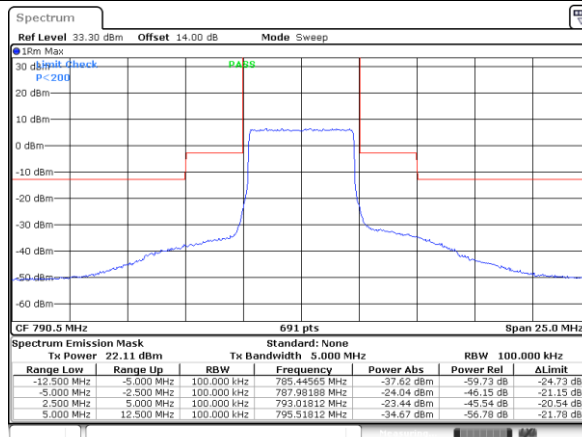


Date: 8_JUN.2020 08:34:35



Date: 8_JUN.2020 08:35:58

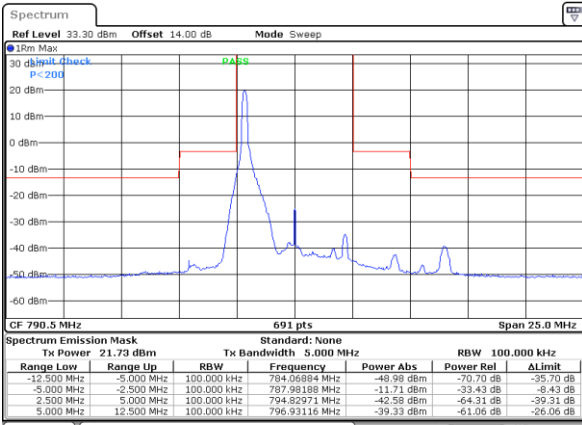
Lowest Channel / Full RB



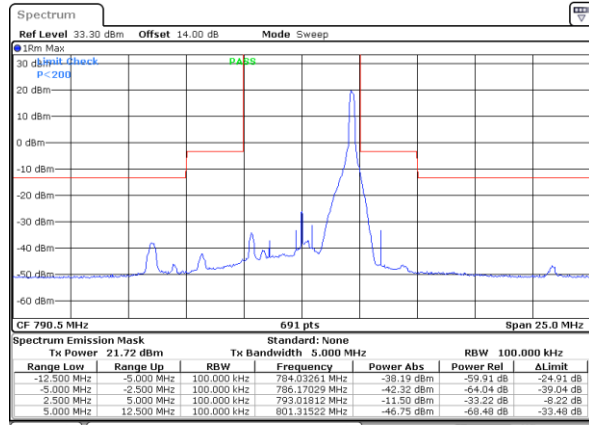
Date: 8_JUN.2020 08:33:13

LTE Band 14 / 5MHz / 64QAM

Lowest Channel / 1RB

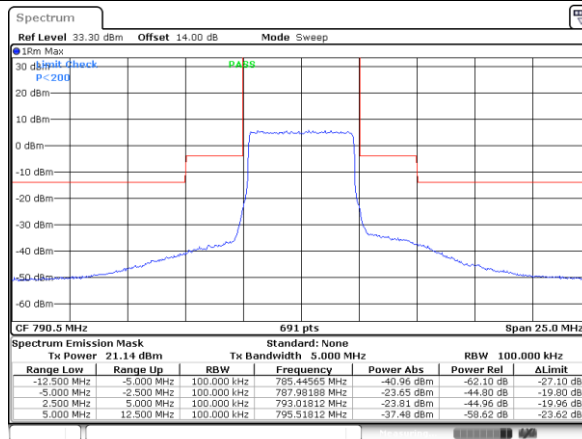


Date: 8_JUN.2020 08:13:08



Date: 8_JUN.2020 08:13:25

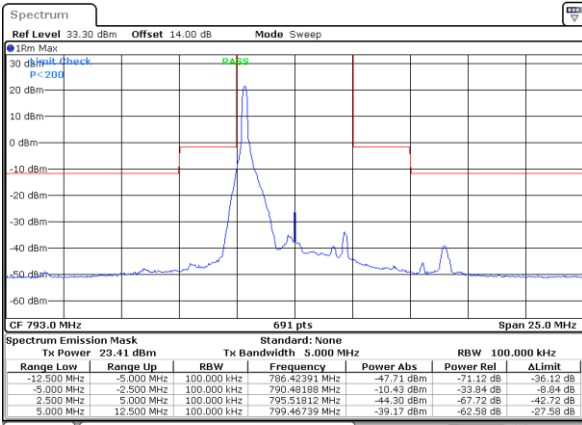
Lowest Channel / Full RB



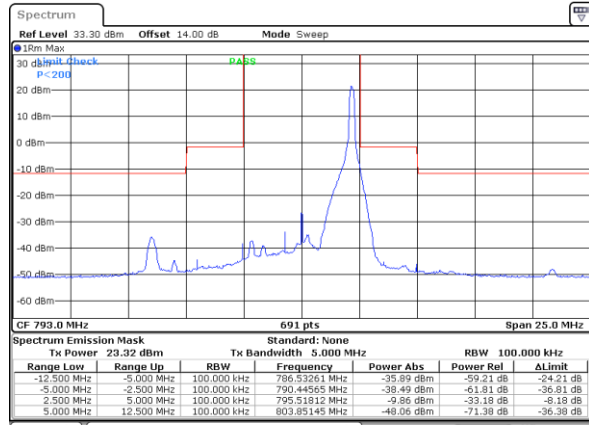
Date: 8_JUN.2020 08:13:40

LTE Band 14 / 5MHz / QPSK

Middle Channel / 1RB

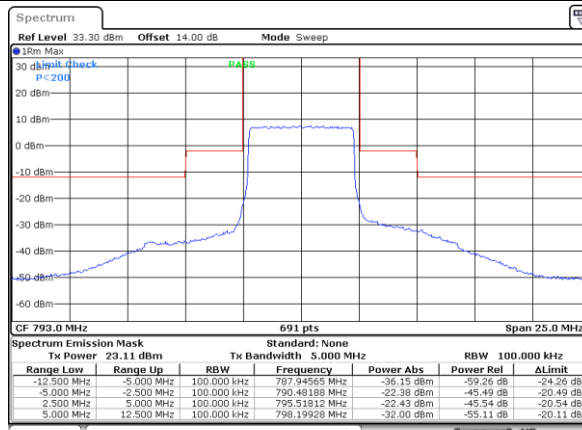


Date: 8_JUN.2020 08:13:15



Date: 8_JUN.2020 08:37:48

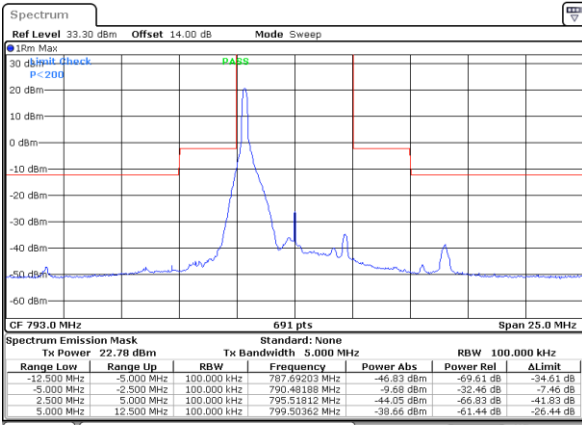
Middle Channel / Full RB



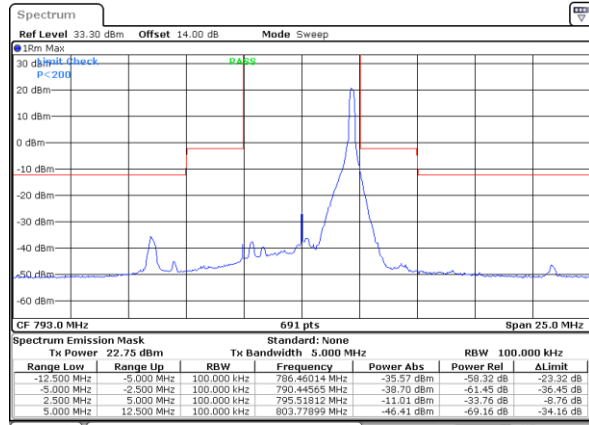
Date: 8_JUN.2020 08:40:33

LTE Band 14 / 5MHz / 16QAM

Middle Channel / 1RB

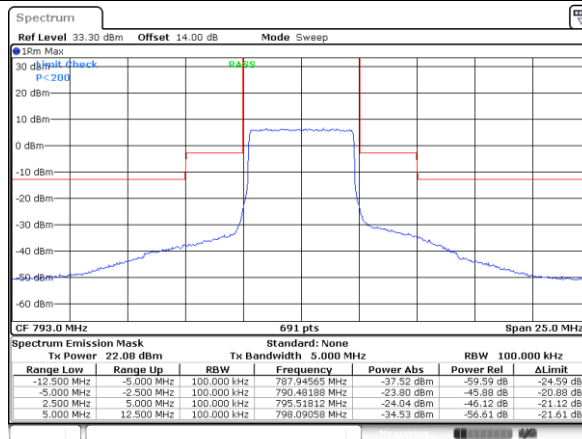


Date: 8_JUN.2020 08:13:43



Date: 8_JUN.2020 08:13:20

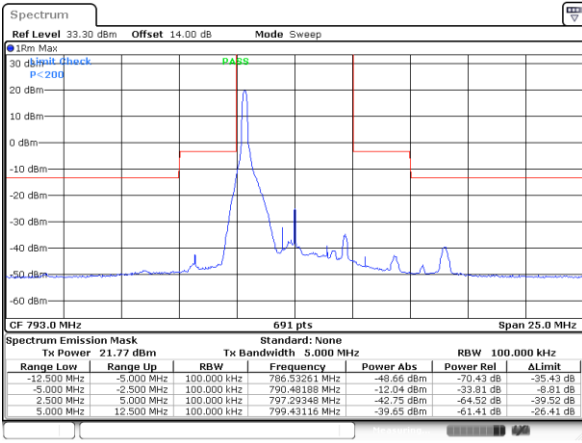
Middle Channel / Full RB



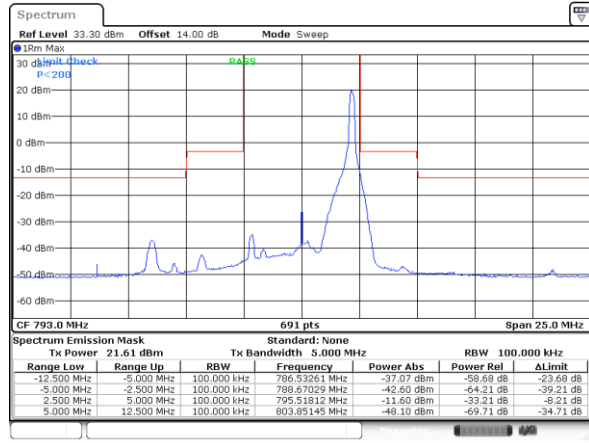
Date: 8_JUN.2020 08:40:06

LTE Band 14 / 5MHz / 64QAM

Middle Channel / 1RB

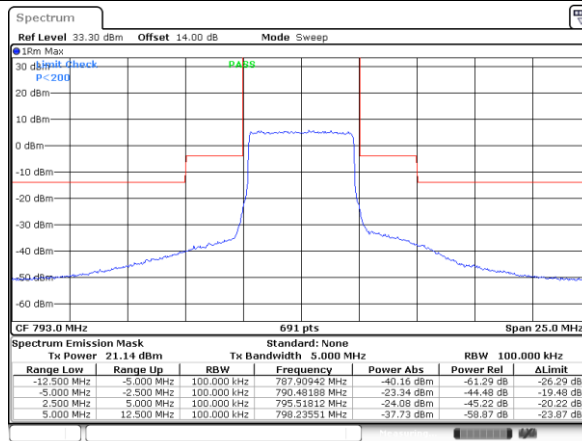


Date: 8_JUN.2020 08:13:11



Date: 8_JUN.2020 08:13:53

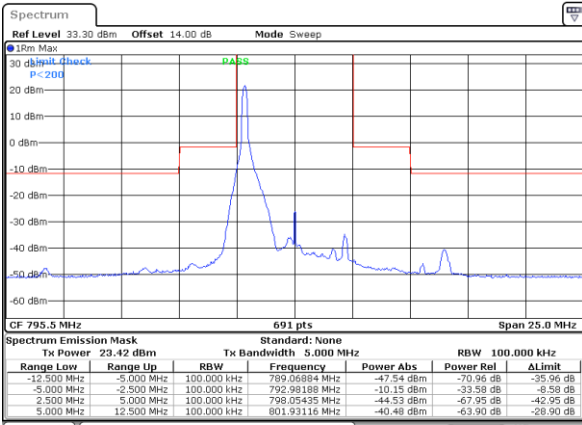
Middle Channel / Full RB



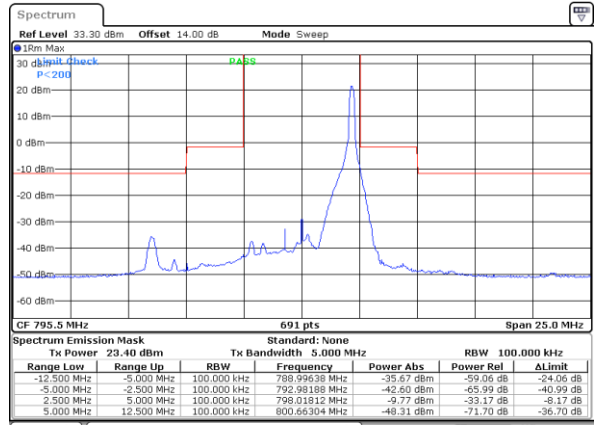
Date: 8_JUN.2020 08:13:38

LTE Band 14 / 5MHz / QPSK

Highest Channel / 1RB

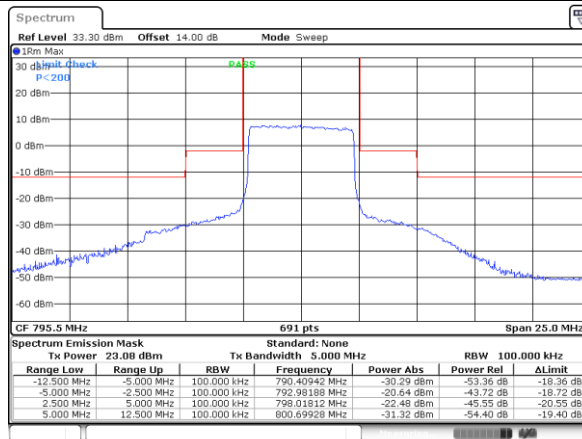


Date: 8_JUN.2020 08:43:18



Date: 8_JUN.2020 08:43:46

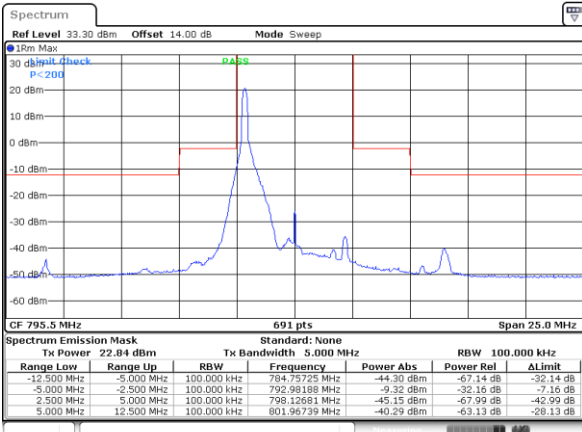
Highest Channel / Full RB



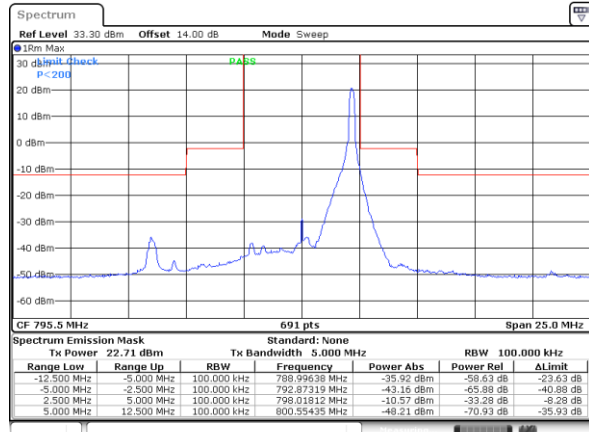
Date: 8_JUN.2020 08:41:01

LTE Band 14 / 5MHz / 16QAM

Highest Channel / 1RB

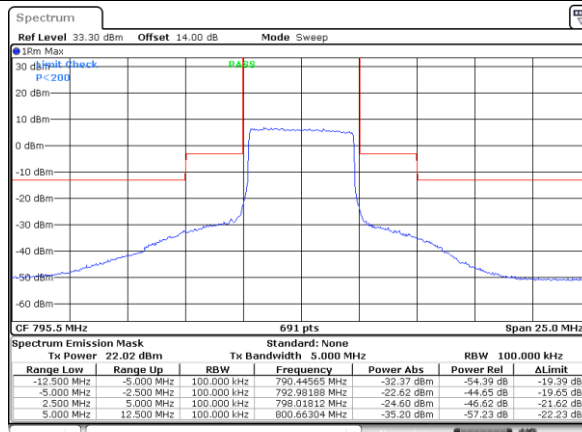


Date: 8_JUN.2020 08:42:51



Date: 8_JUN.2020 08:44:13

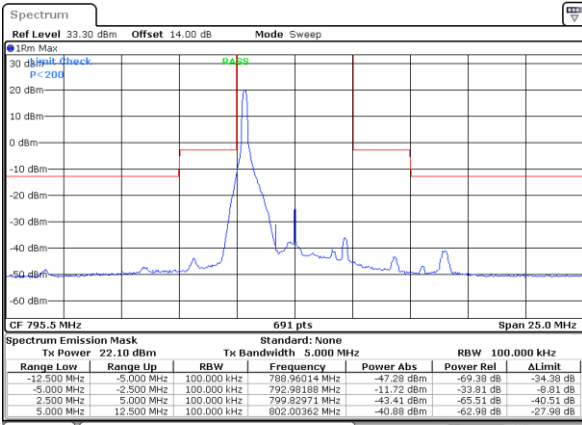
Highest Channel / Full RB



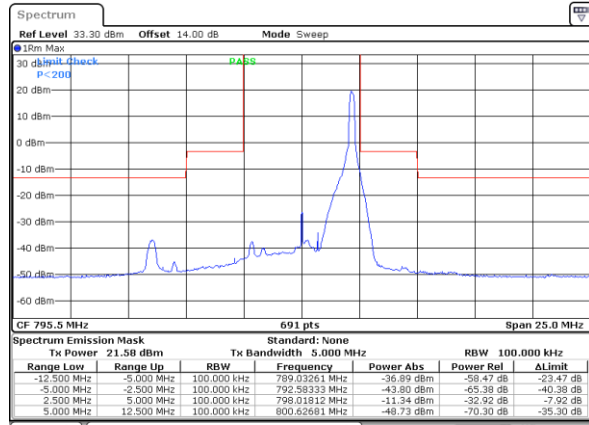
Date: 8_JUN.2020 08:41:28

LTE Band 14 / 5MHz / 64QAM

Highest Channel / 1RB

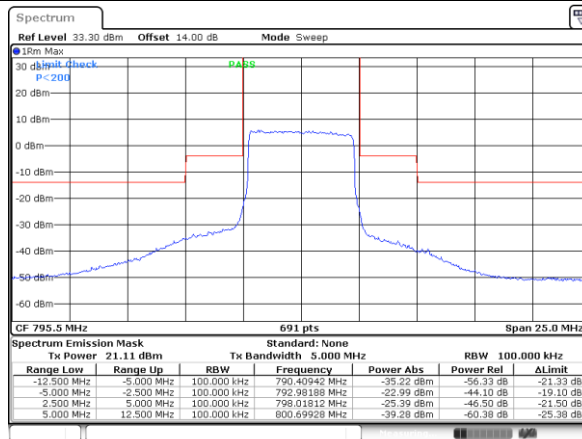


Date: 11 JUN 2020 04:33:59



Date: 8 JUN 2020 08:44:41

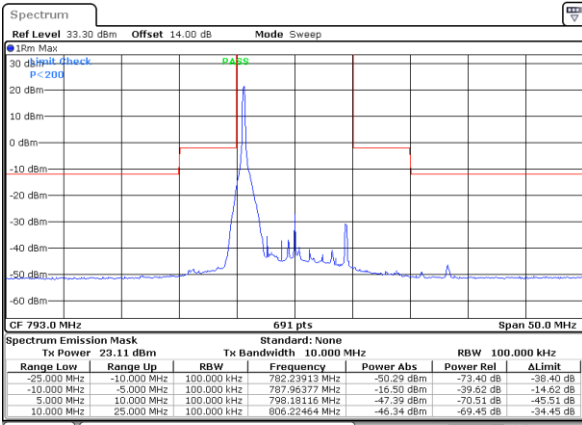
Highest Channel / Full RB



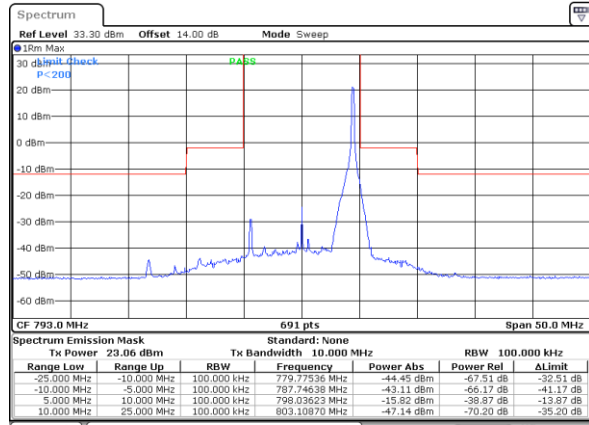
Date: 8 JUN 2020 08:41:56

LTE Band 14 / 10MHz / QPSK

Middle Channel / 1RB

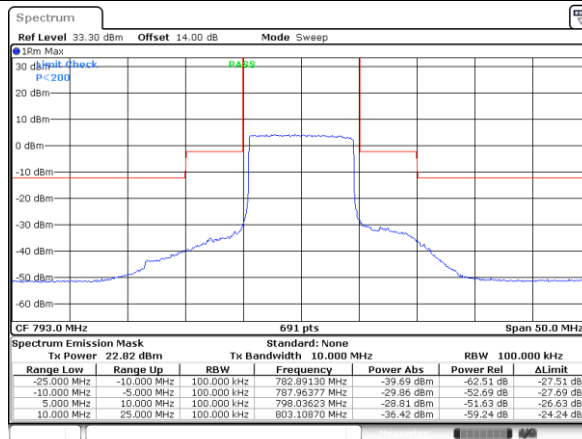


Date: 8_JUN.2020 08:46:31



Date: 8_JUN.2020 08:46:04

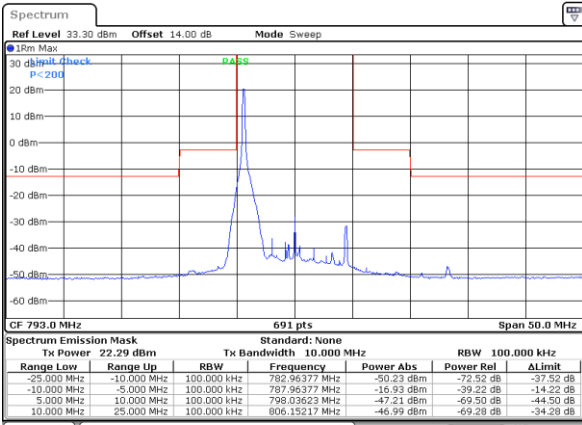
Middle Channel / Full RB



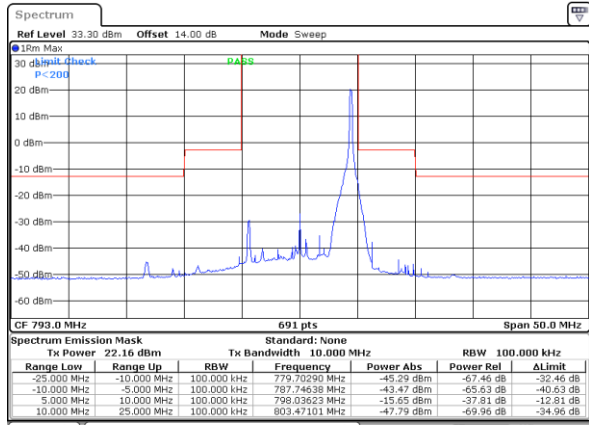
Date: 8_JUN.2020 08:48:49

LTE Band 14 / 10MHz / 16QAM

Middle Channel / 1RB

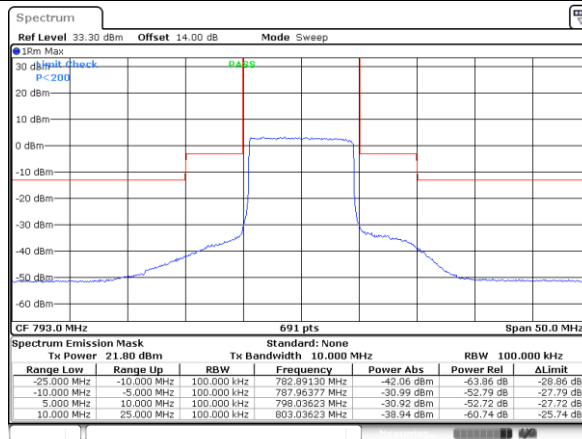


Date: 8_JUN.2020 08:46:59



Date: 8_JUN.2020 08:45:36

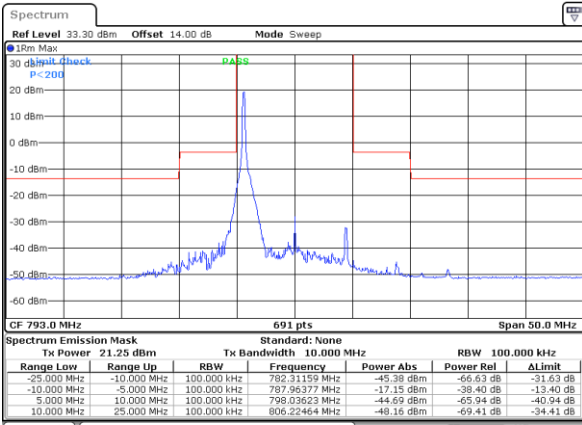
Middle Channel / Full RB



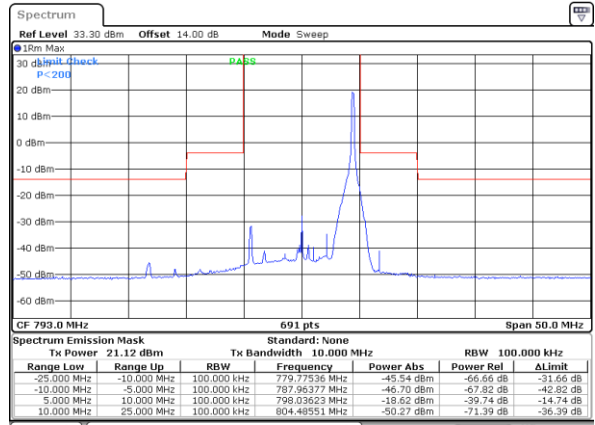
Date: 8_JUN.2020 08:48:21

LTE Band 14 / 10MHz / 64QAM

Middle Channel / 1RB

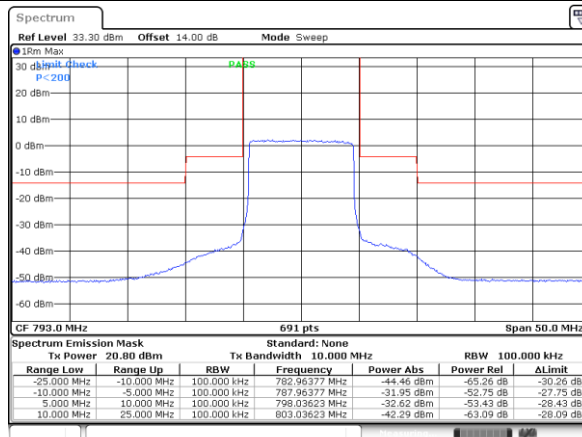


Date: 8_JUN.2020 08:47:26



Date: 8_JUN.2020 08:45:09

Middle Channel / Full RB



Date: 8_JUN.2020 08:47:54

Frequency Stability

Test Conditions		LTE Band 14 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	1.25ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0003	PASS
40	Normal Voltage	0.0029	
30	Normal Voltage	0.0045	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0033	
-10	Normal Voltage	0.0032	
-20	Normal Voltage	0.0039	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0009	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0008	

Note: Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.35 V.



Appendix B. Test Results of Radiated Test

Field Strength of Spurious Radiated

Top Antenna

LTE Band 14 / 5MHz / QPSK / RB Size 1 Offset 0									
Bandwidth	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1576.5	-66.38	-42.15	-24.23	-76.82	-70.79	2.61	9.17	H
	2364.75	-60.93	-13	-47.93	-78.60	-65.68	3.47	10.37	H
	3153	-59.33	-13	-46.33	-78.96	-65.40	4.14	12.36	H
	1576.5	-65.40	-42.15	-23.25	-76.41	-69.81	2.61	9.17	V
	2364.75	-60.40	-13	-47.40	-78.53	-65.15	3.47	10.37	V
	3153	-57.36	-13	-44.36	-78.92	-63.43	4.14	12.36	V
Middle	1581.5	-66.24	-42.15	-24.09	-76.68	-70.65	2.63	9.19	H
	2372.25	-60.86	-13	-47.86	-78.53	-65.61	3.49	10.39	H
	3163	-58.95	-13	-45.95	-78.58	-65.03	4.16	12.39	H
	1581.5	-65.50	-42.15	-23.35	-76.51	-69.91	2.63	9.19	V
	2372.25	-60.17	-13	-47.17	-78.38	-64.92	3.49	10.39	V
	3163	-57.11	-13	-44.11	-78.67	-63.19	4.16	12.39	V
Highest	1586.5	-66.17	-42.15	-24.02	-76.61	-70.58	2.65	9.21	H
	2379.75	-60.89	-13	-47.89	-78.56	-65.63	3.53	10.42	H
	3173	-59.30	-13	-46.30	-78.98	-65.38	4.24	12.47	H
	1586.5	-65.63	-42.15	-23.48	-76.64	-70.04	2.65	9.21	V
	2379.75	-60.12	-13	-47.12	-78.33	-64.86	3.53	10.42	V
	3173	-57.30	-13	-44.30	-78.97	-63.38	4.24	12.47	V
Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.									
Test Result					PASS				

LTE Band 14 / 10MHz / QPSK / RB Size 1 Offset 0									
Bandwidth	Frequency (MHz)	ERP (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	1577	-65.17	-42.15	-23.02	-74.22	-68.42	4.00	9.40	H
	2365.5	-61.09	-13	-48.09	-74.81	-64.66	4.88	10.60	H
	3154	-61.36	-13	-48.36	-76.96	-66.29	5.52	12.60	H
	1577	-65.25	-42.15	-23.10	-73.79	-68.50	4.00	9.40	V
	2365.5	-62.51	-13	-49.51	-75.97	-66.08	4.88	10.60	V
	3154	-61.66	-13	-48.66	-76.94	-66.59	5.52	12.60	V
Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.									
Test Result					PASS				



Bottom Antenna

LTE Band 14 / 5MHz / QPSK / RB Size 1 Offset 0									
Bandwidth	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1576.5	-66.61	-42.15	-24.46	-77.05	-71.02	2.61	9.17	H
	2364.75	-58.99	-13	-45.99	-76.66	-63.74	3.47	10.37	H
	3153	-58.99	-13	-45.99	-78.62	-65.06	4.14	12.36	H
	1576.5	-65.73	-42.15	-23.58	-76.74	-70.14	2.61	9.17	V
	2364.75	-57.51	-13	-44.51	-75.64	-62.26	3.47	10.37	V
	3153	-57.52	-13	-44.52	-79.08	-63.59	4.14	12.36	V
Middle	1581.5	-65.93	-42.15	-23.78	-76.37	-70.34	2.63	9.19	H
	2372.25	-58.90	-13	-45.90	-76.57	-63.65	3.49	10.39	H
	3163	-59.34	-13	-46.34	-78.97	-65.42	4.16	12.39	H
	1581.5	-65.77	-42.15	-23.62	-76.78	-70.18	2.63	9.19	V
	2372.25	-57.14	-13	-44.14	-75.35	-61.89	3.49	10.39	V
	3163	-57.23	-13	-44.23	-78.79	-63.31	4.16	12.39	V
Highest	1586.5	-65.71	-42.15	-23.56	-76.15	-70.12	2.65	9.21	H
	2379.75	-57.03	-13	-44.03	-74.70	-61.77	3.53	10.42	H
	3173	-59.16	-13	-46.16	-78.84	-65.24	4.24	12.47	H
	1586.5	-65.68	-42.15	-23.53	-76.69	-70.09	2.65	9.21	V
	2379.75	-57.54	-13	-44.54	-75.75	-62.28	3.53	10.42	V
	3173	-57.13	-13	-44.13	-78.80	-63.21	4.24	12.47	V
Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.									
Test Result					PASS				

LTE Band 14 / 10MHz / QPSK / RB Size 1 Offset 0									
Bandwidth	Frequency (MHz)	ERP (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	1577	-64.62	-42.15	-22.47	-73.67	-67.87	4.00	9.40	H
	2365.5	-53.99	-13	-40.99	-67.71	-57.56	4.88	10.60	H
	3154	-61.27	-13	-48.27	-76.87	-66.20	5.52	12.60	H
	1577	-65.11	-42.15	-22.96	-73.65	-68.36	4.00	9.40	V
	2365.5	-52.57	-13	-39.57	-66.03	-56.14	4.88	10.60	V
	3154	-61.56	-13	-48.56	-76.84	-66.49	5.52	12.60	V
Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.									
Test Result					PASS				