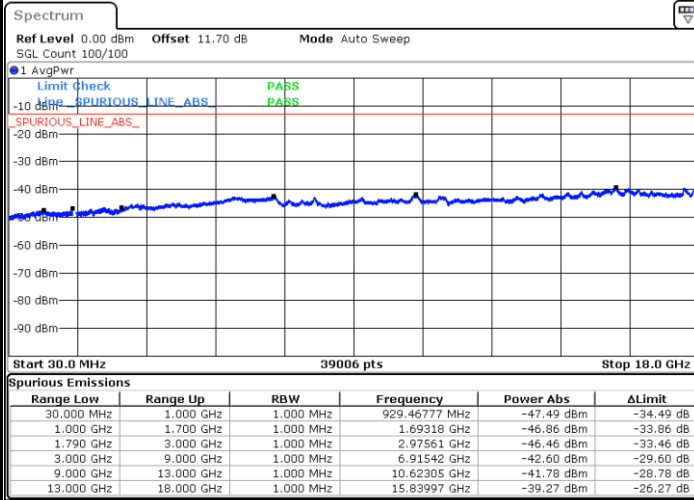




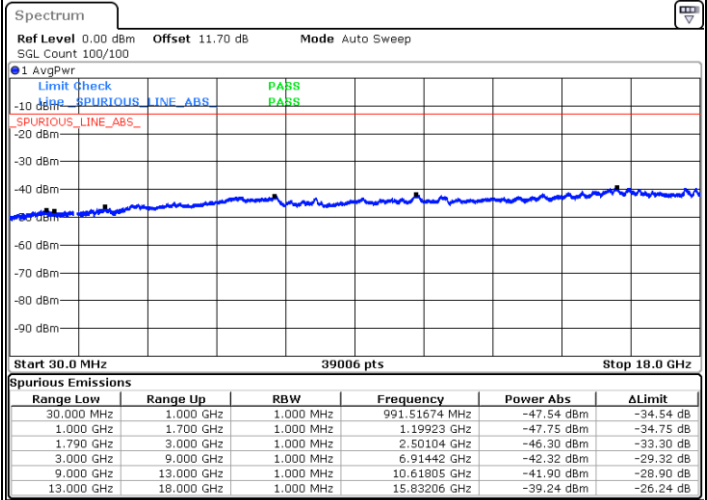
LTE Band 66 / 10MHz

Lowest Channel / QPSK



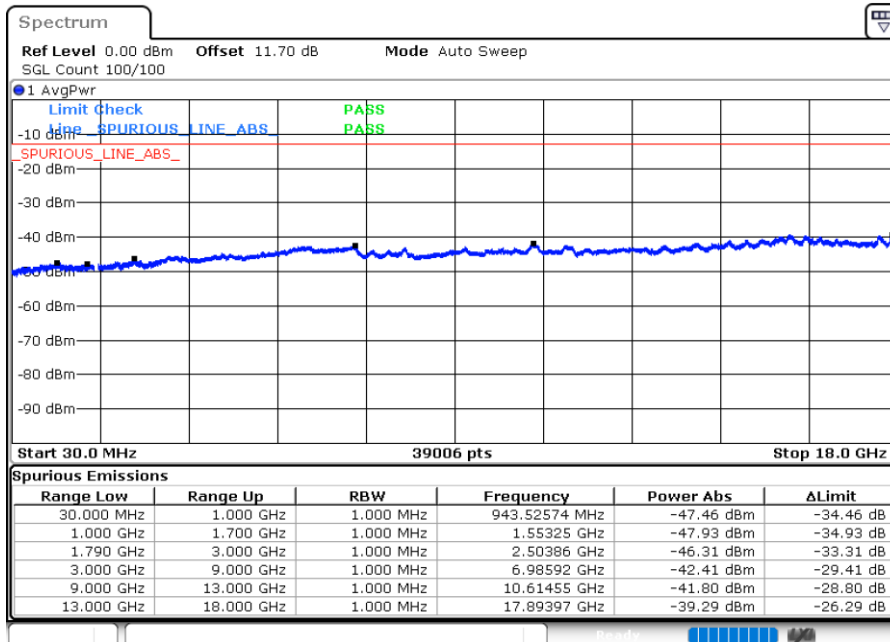
Date: 13.DEC.2020 14:42:41

Middle Channel / QPSK



Date: 13.DEC.2020 14:44:10

Highest Channel / QPSK

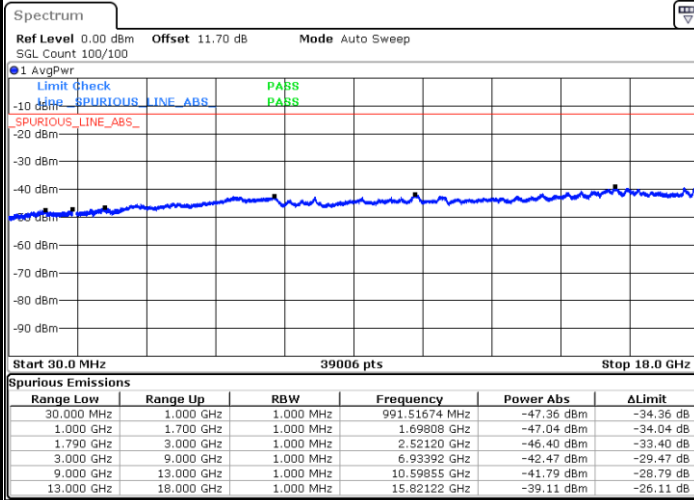


Date: 13.DEC.2020 14:45:59



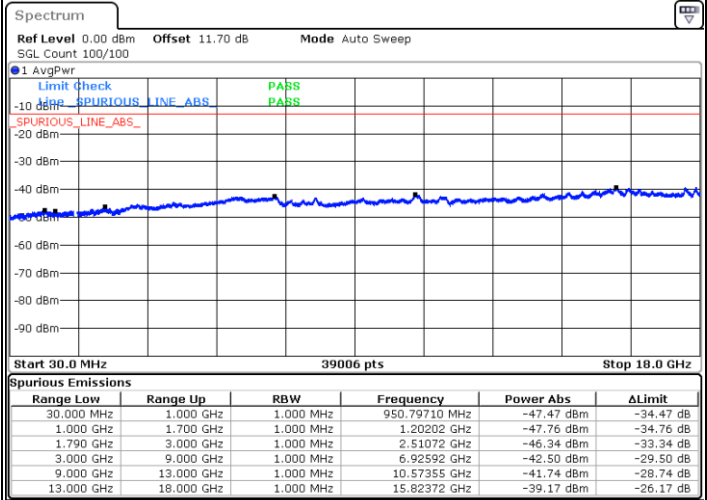
LTE Band 66 / 15MHz

Lowest Channel / QPSK



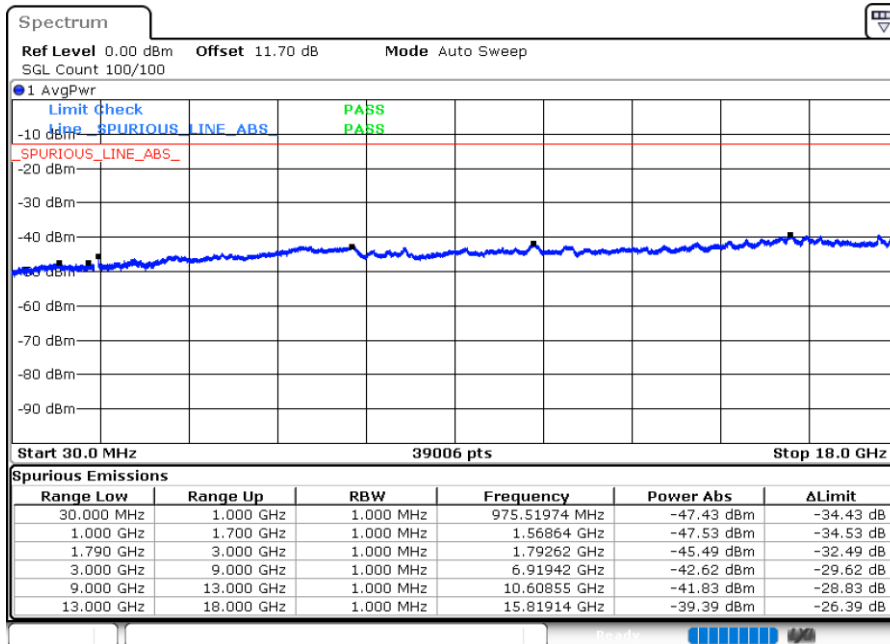
Date: 13.DEC.2020 14:50:49

Middle Channel / QPSK



Date: 13.DEC.2020 14:52:19

Highest Channel / QPSK

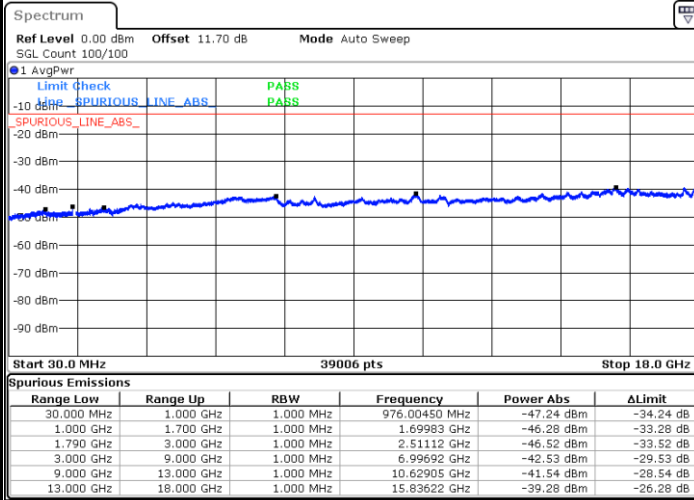


Date: 13.DEC.2020 14:54:07



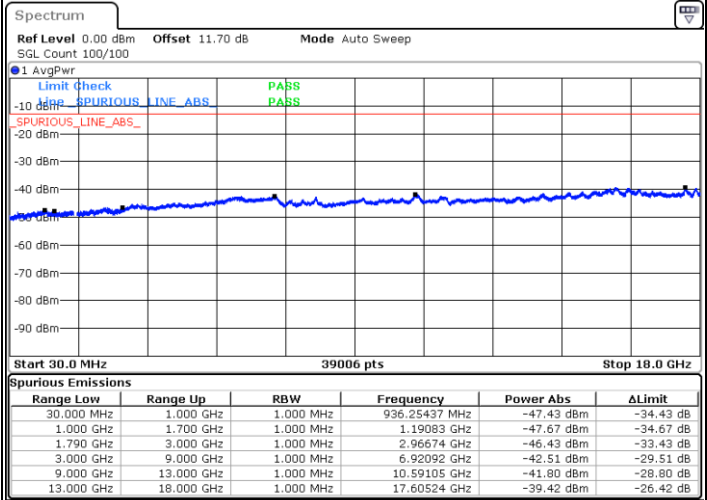
LTE Band 66 / 20MHz

Lowest Channel / QPSK



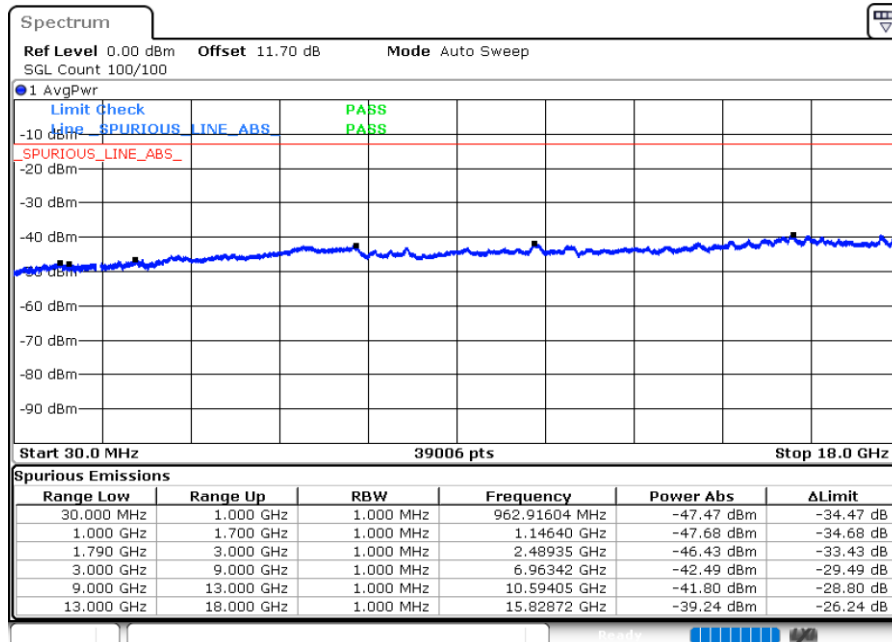
Date: 13.DEC.2020 14:56:08

Middle Channel / QPSK



Date: 13.DEC.2020 14:57:37

Highest Channel / QPSK



Date: 13.DEC.2020 14:59:25

Frequency Stability

Test Conditions		LTE Band 66 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0014	PASS
40	Normal Voltage	0.0008	
30	Normal Voltage	0.0013	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0014	
0	Normal Voltage	0.0002	
-10	Normal Voltage	0.0061	
-20	Normal Voltage	0.0046	
-30	Normal Voltage	0.0014	
20	Maximum Voltage	0.0079	
20	Normal Voltage	0.0014	
20	Battery End Point	0.0014	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.35 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 71

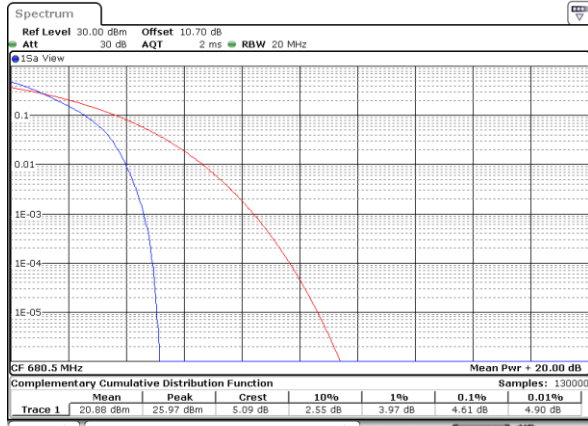
Peak-to-Average Ratio

Mode	LTE Band 71 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.61	5.74	6.38	PASS



LTE Band 71 / 20MHz / QPSK

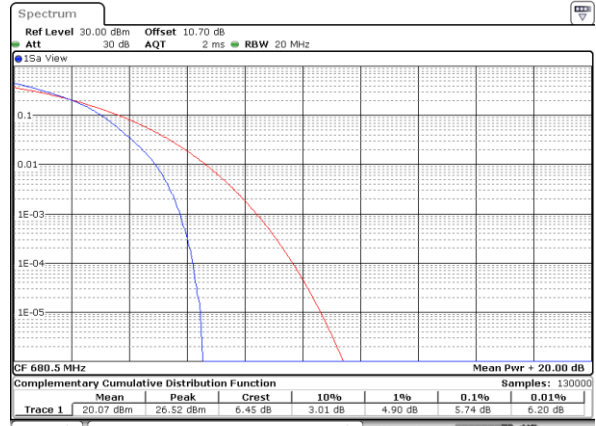
Middle Channel / Full RB



Date: 13.DEC.2020 16:05:46

LTE Band 71 / 20MHz / 16QAM

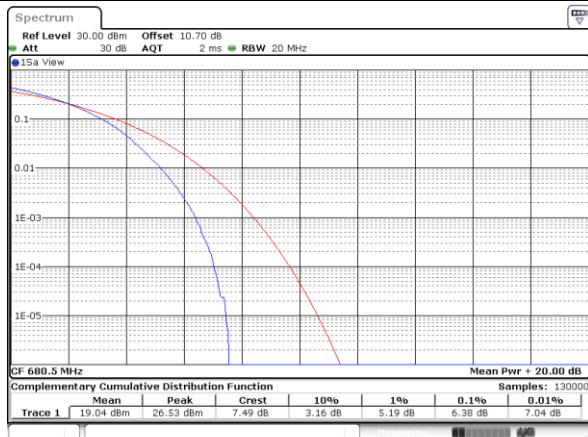
Middle Channel / Full RB



Date: 13.DEC.2020 16:05:33

LTE Band 71 / 20MHz / 64QAM

Middle Channel / Full RB



Date: 13.DEC.2020 16:06:00

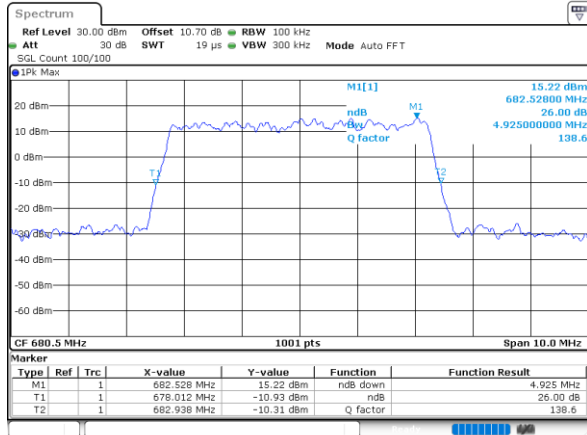
**26dB Bandwidth**

Mode	LTE Band 71 : 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	-	-	-	-	4.93	4.88	9.79	9.71	14.36	14.51	18.66	19.06
Mode	LTE Band 71 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	-	-	-	-	4.92	-	9.79	-	14.33	-	18.98	-

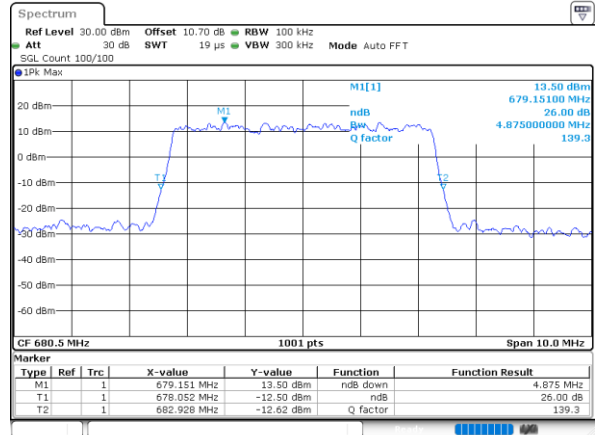


LTE Band 71

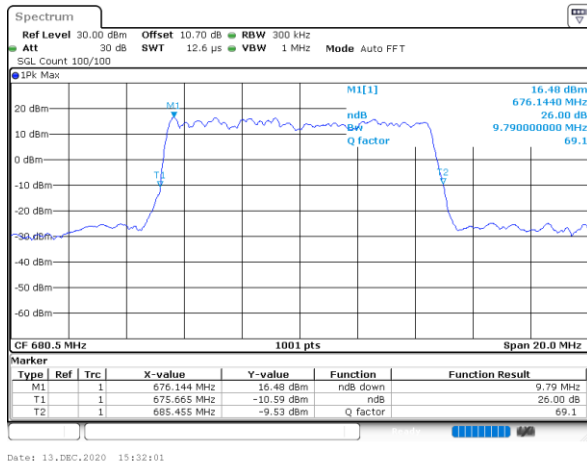
Middle Channel / 5MHz / QPSK



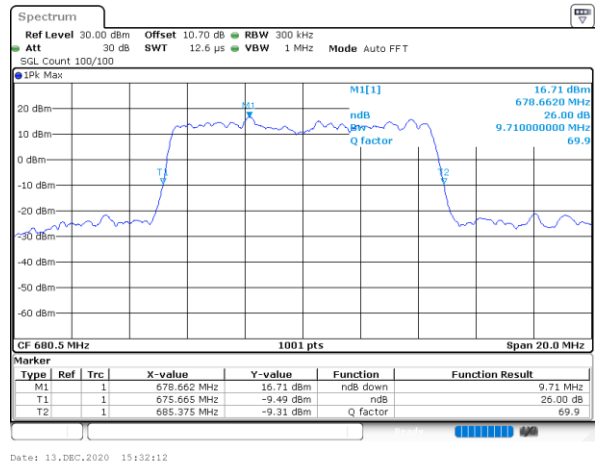
Middle Channel / 5MHz / 16QAM



Middle Channel / 10MHz / QPSK



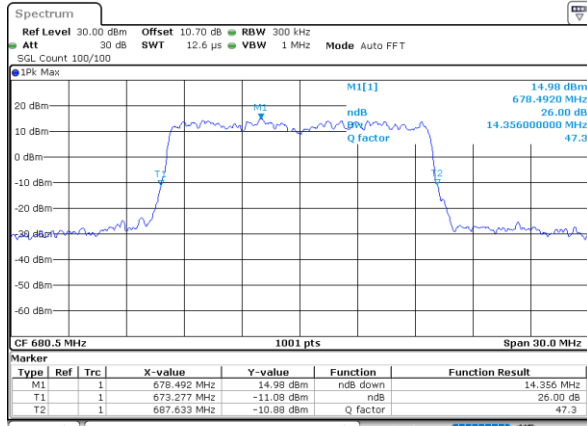
Middle Channel / 10MHz / 16QAM



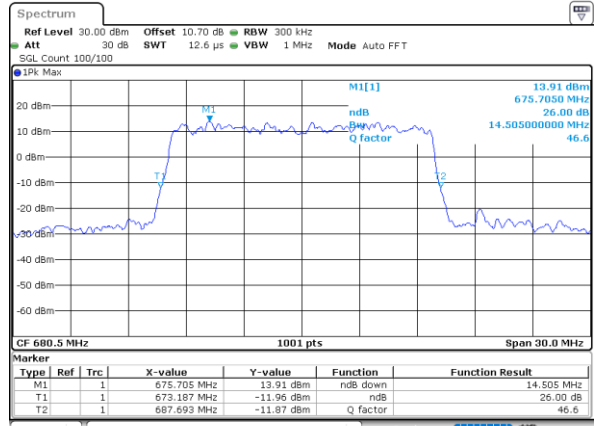


LTE Band 71

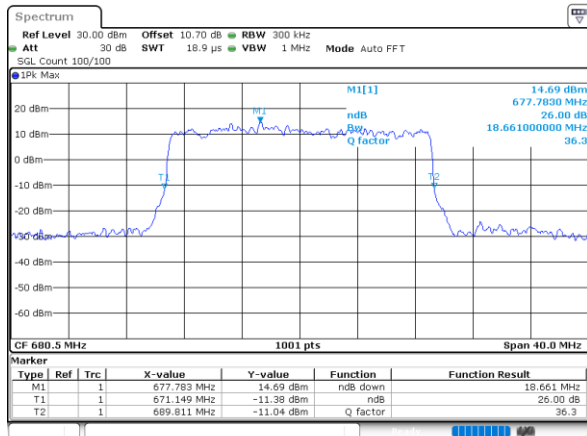
Middle Channel / 15MHz / QPSK



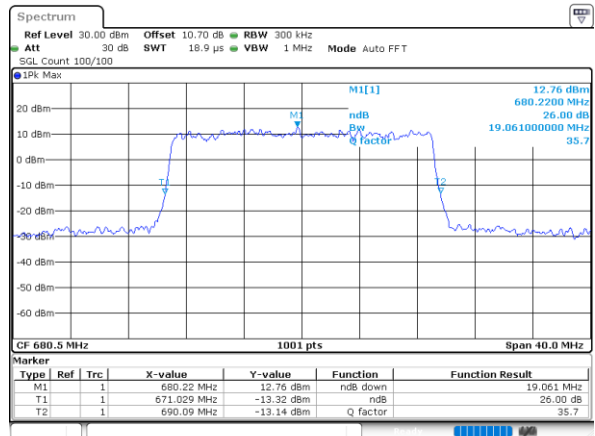
Middle Channel / 15MHz / 16QAM



Middle Channel / 20MHz / QPSK



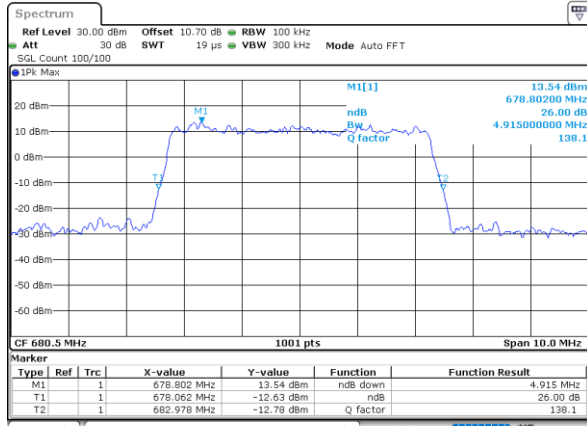
Middle Channel / 20MHz / 16QAM





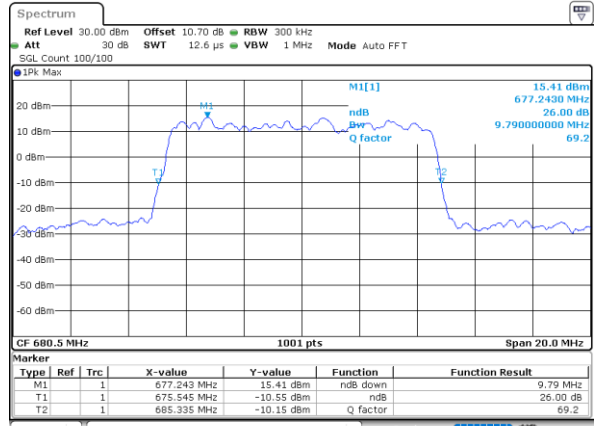
LTE Band 71

Middle Channel / 5MHz / 64QAM



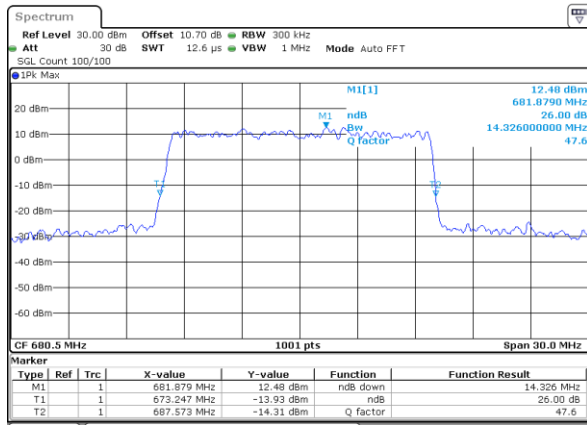
Date: 13.DEC.2020 15:27:30

Middle Channel / 10MHz / 64QAM



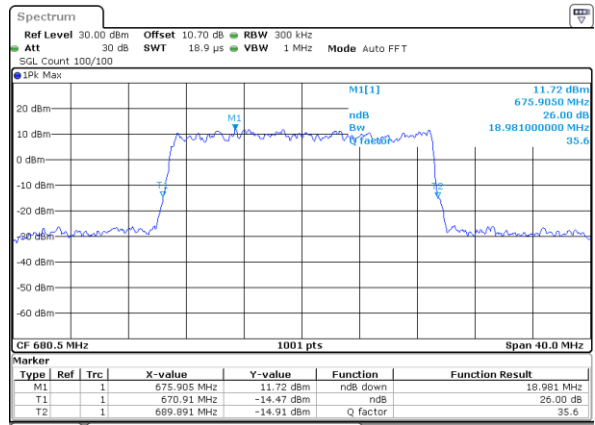
Date: 13.DEC.2020 15:36:56

Middle Channel / 15MHz / 64QAM



Date: 13.DEC.2020 15:47:06

Middle Channel / 20MHz / 64QAM



Date: 13.DEC.2020 15:57:01

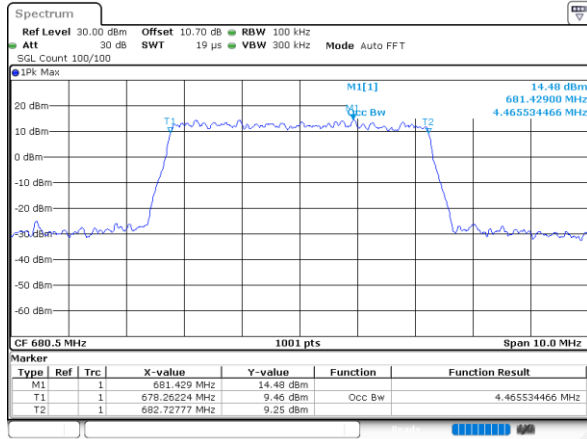
**Occupied Bandwidth**

Mode	LTE Band 71 : 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	-	-	-	-	4.47	4.49	9.07	9.03	13.49	13.43	17.90	17.82
Mode	LTE Band 71 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	-	-	-	-	4.50	-	9.01	-	13.46	-	17.90	-

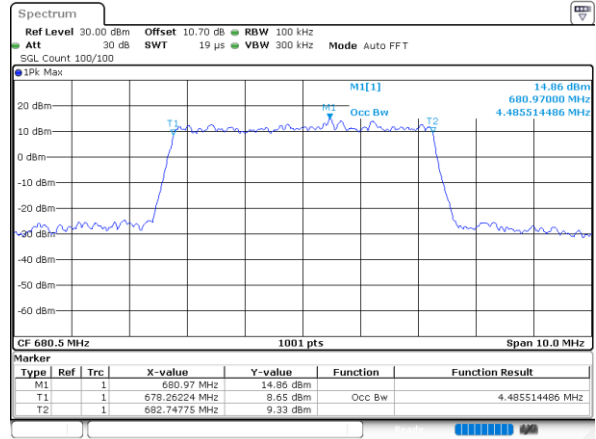


LTE Band 71

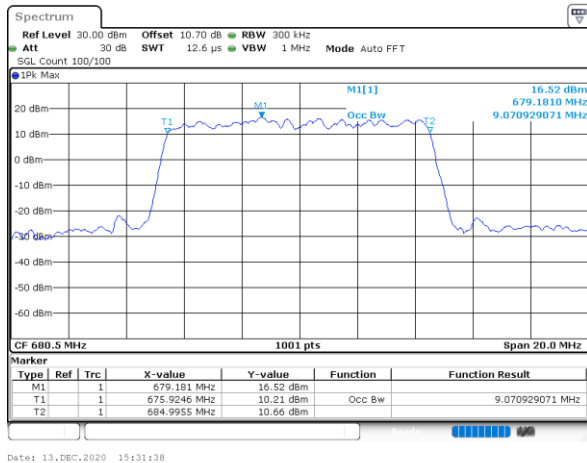
Middle Channel / 5MHz / QPSK



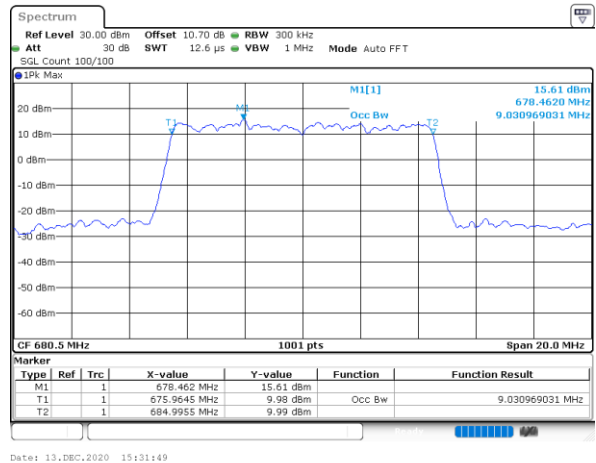
Middle Channel / 5MHz / 16QAM



Middle Channel / 10MHz / QPSK



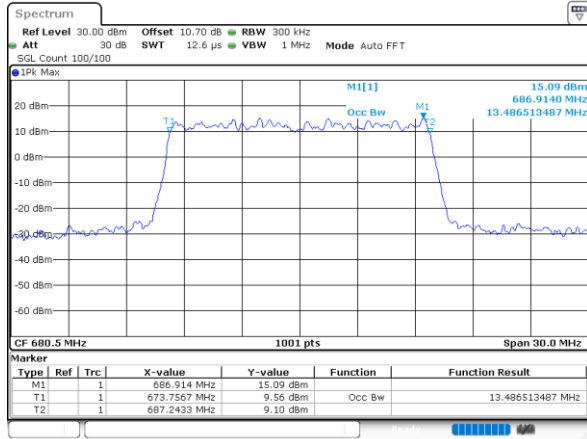
Middle Channel / 10MHz / 16QAM



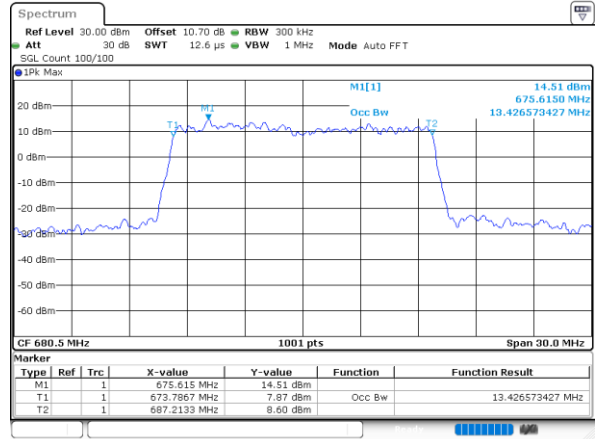


LTE Band 71

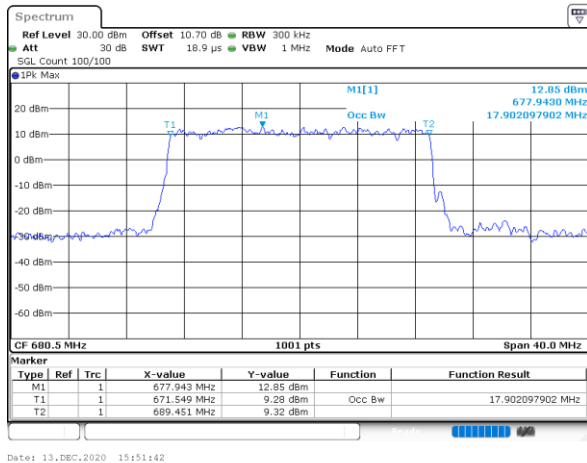
Middle Channel / 15MHz / QPSK



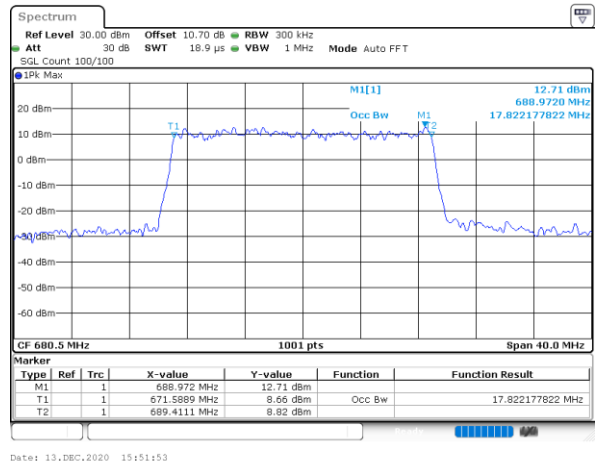
Middle Channel / 15MHz / 16QAM



Middle Channel / 20MHz / QPSK



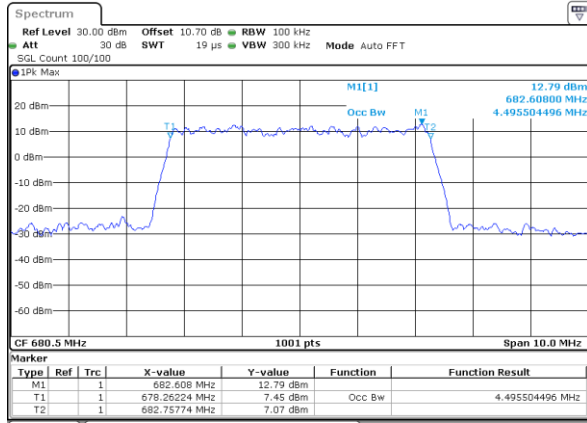
Middle Channel / 20MHz / 16QAM



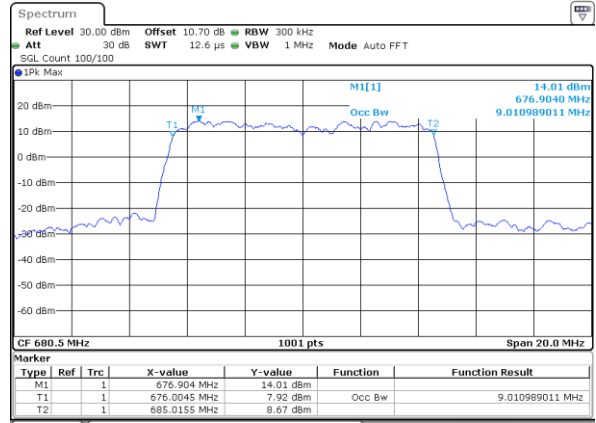


LTE Band 71

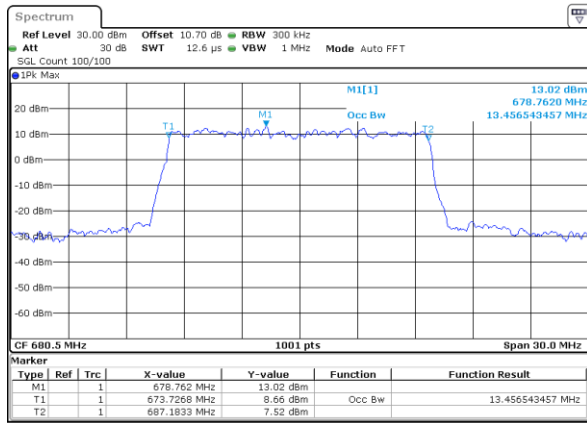
Middle Channel / 5MHz / 64QAM



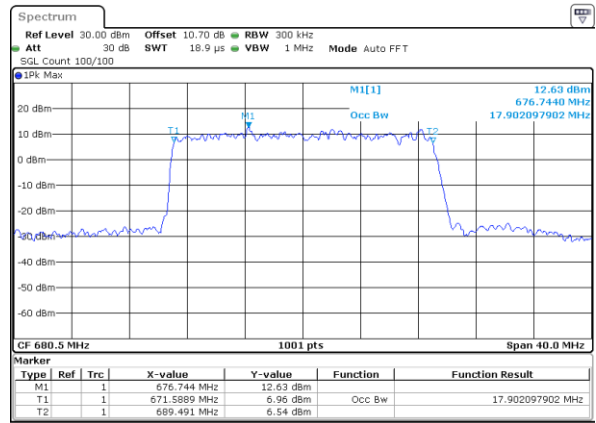
Middle Channel / 10MHz / 64QAM

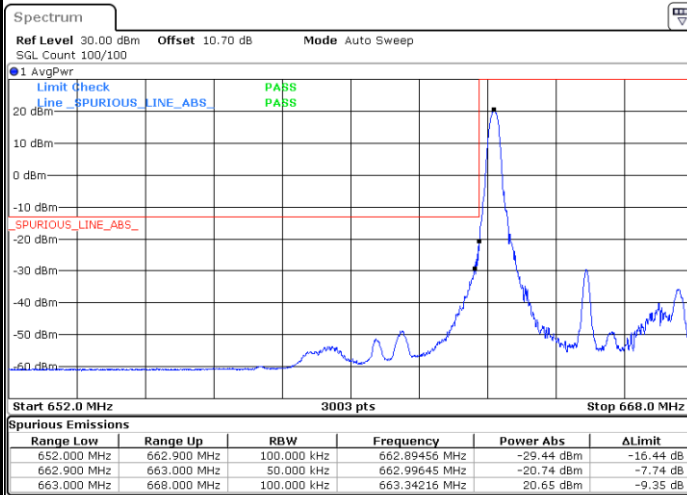
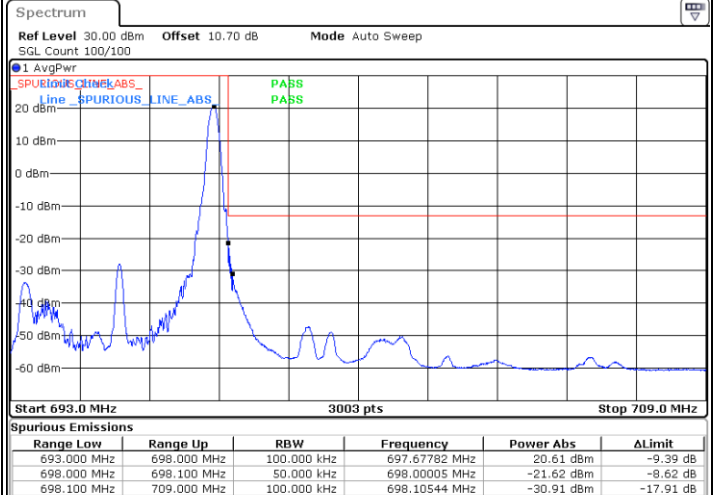
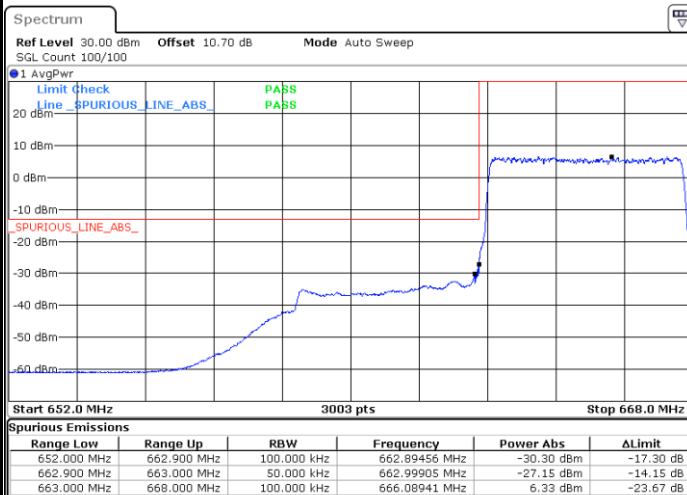
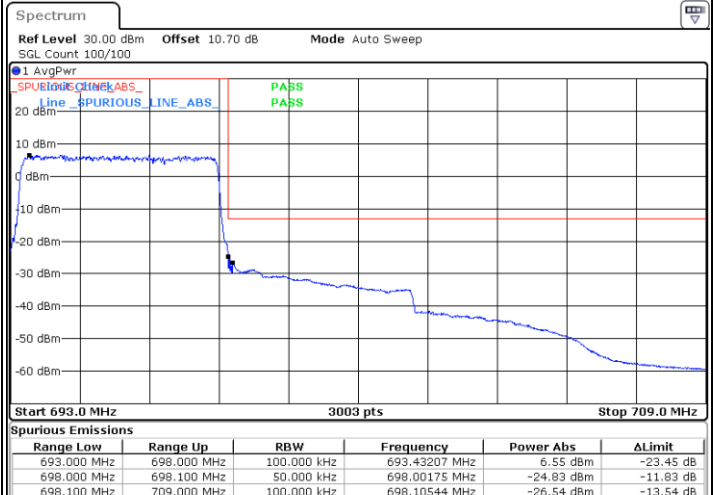


Middle Channel / 15MHz / 64QAM



Middle Channel / 20MHz / 64QAM

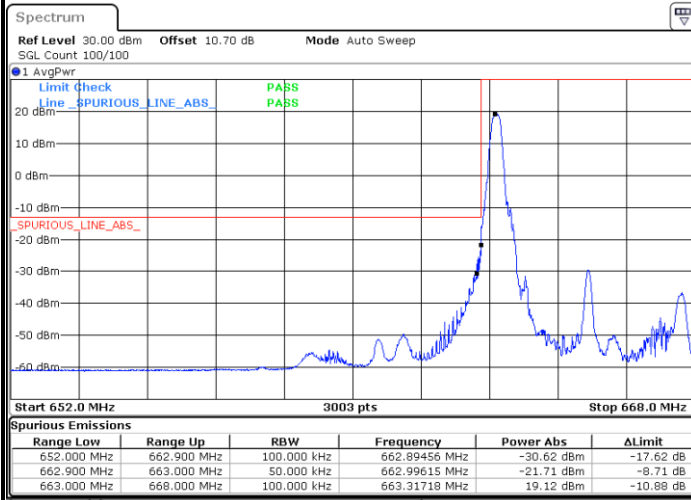


**Conducted Band Edge****LTE Band 71 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

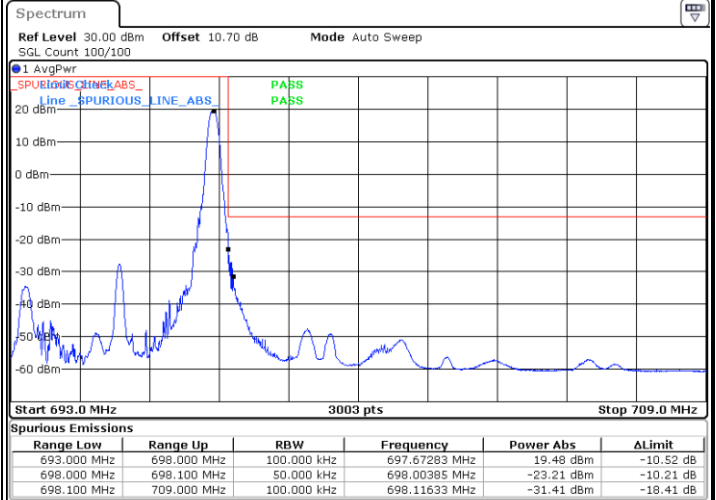


LTE Band 71 / 5MHz / 16QAM

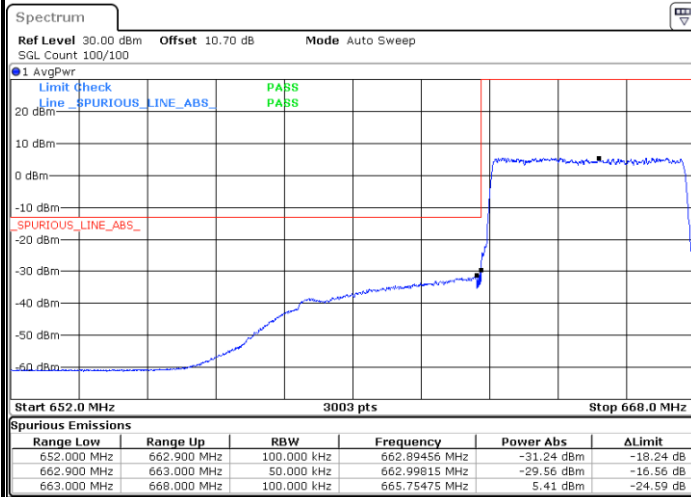
Lowest Band Edge / 1RB



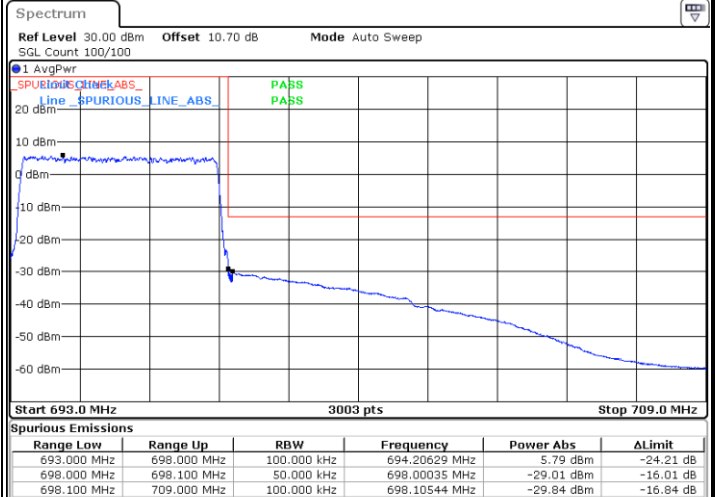
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



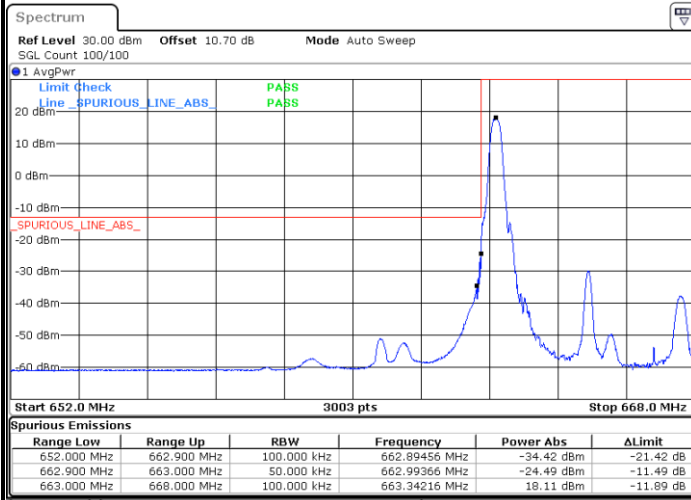
Highest Band Edge / Full RB



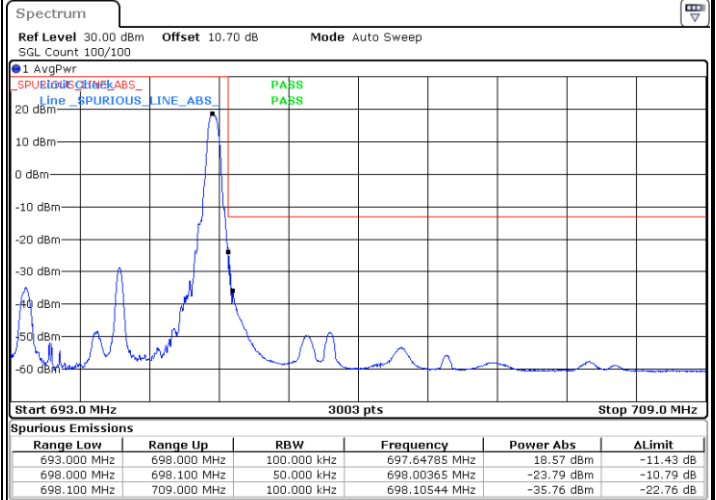


LTE Band 71 / 5MHz / 64QAM

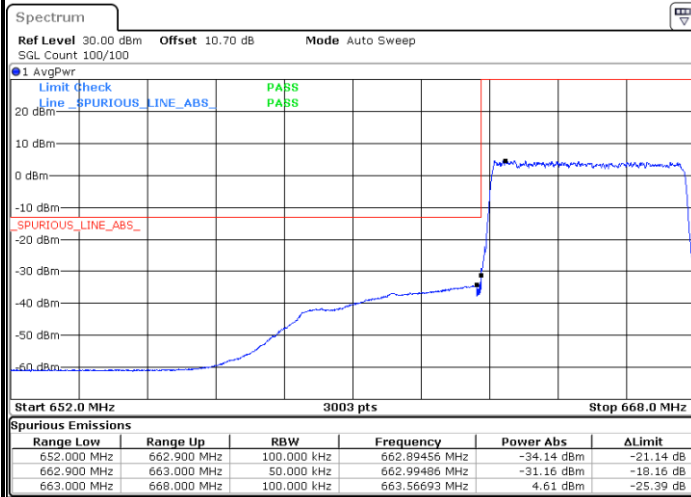
Lowest Band Edge / 1RB



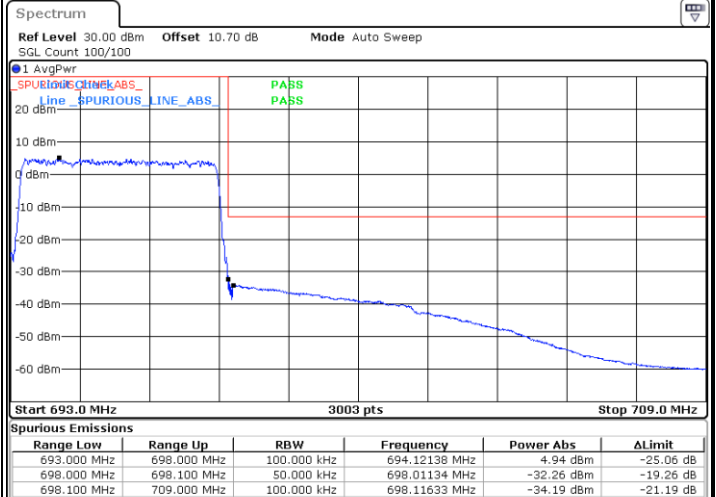
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



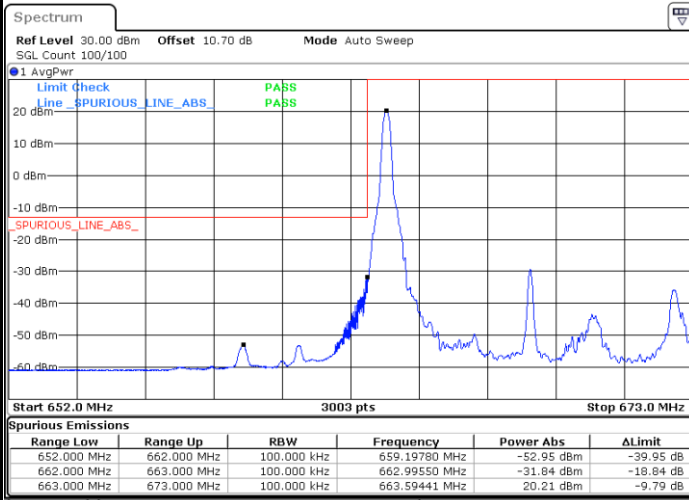
Highest Band Edge / Full RB



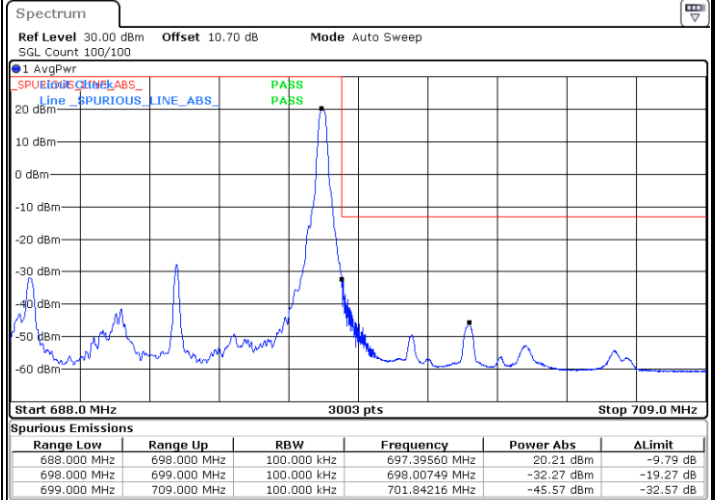


LTE Band 71 / 10MHz / QPSK

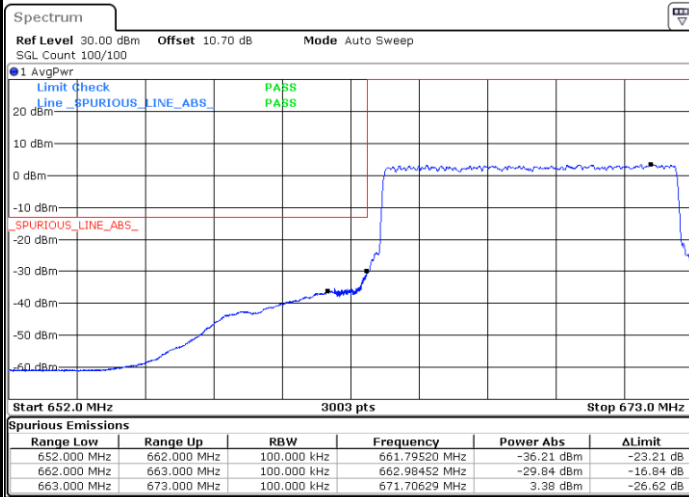
Lowest Band Edge / 1 RB



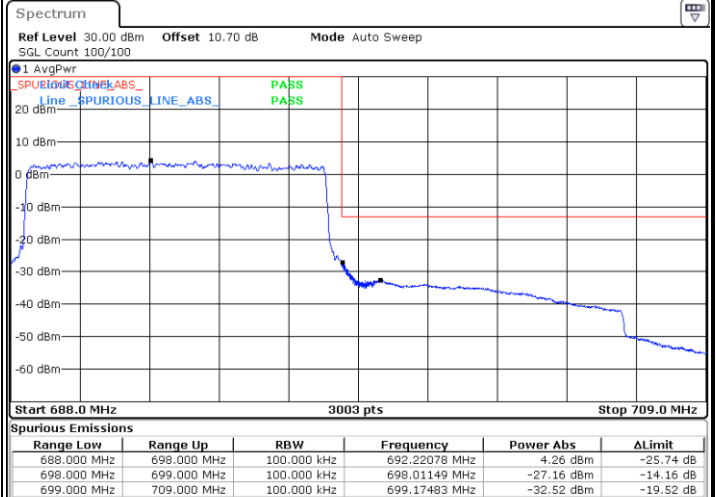
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



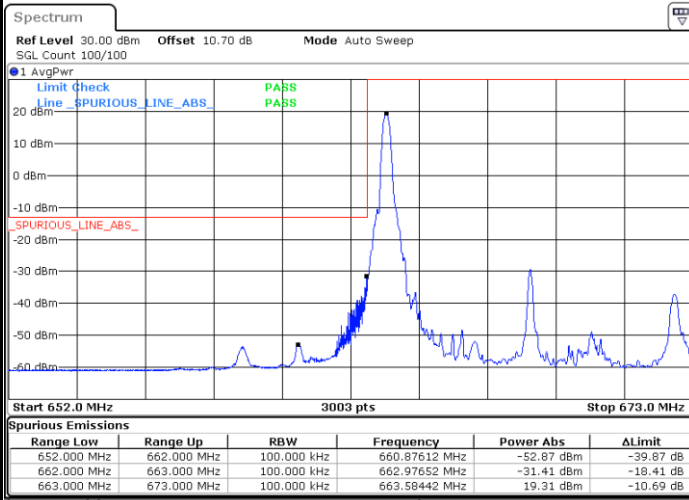
Highest Band Edge / Full RB



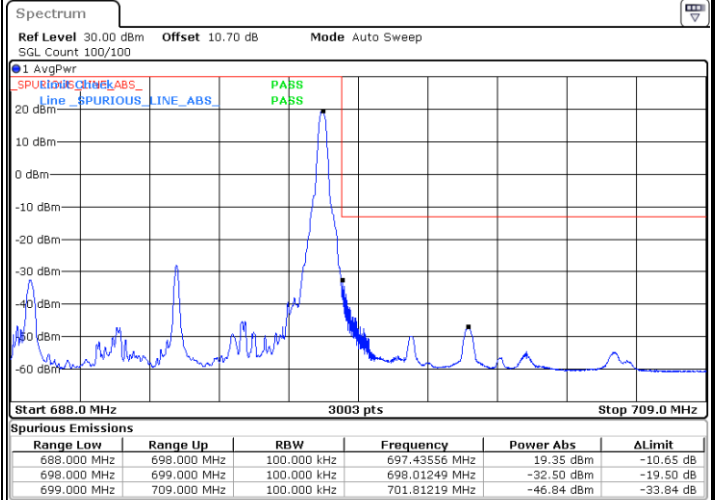


LTE Band 71 / 10MHz / 16QAM

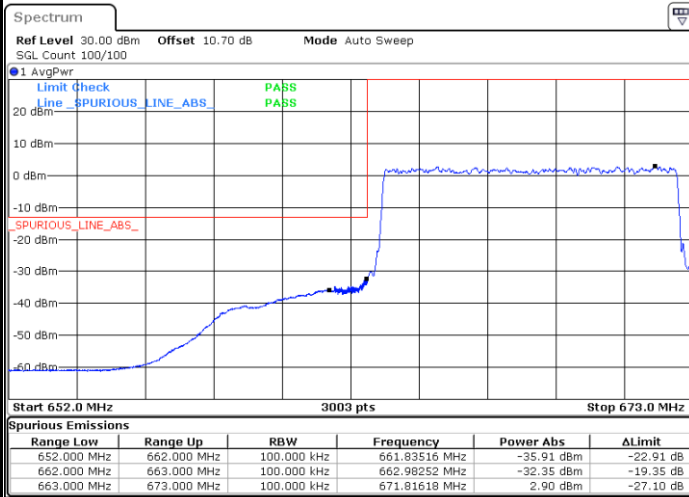
Lowest Band Edge / 1 RB



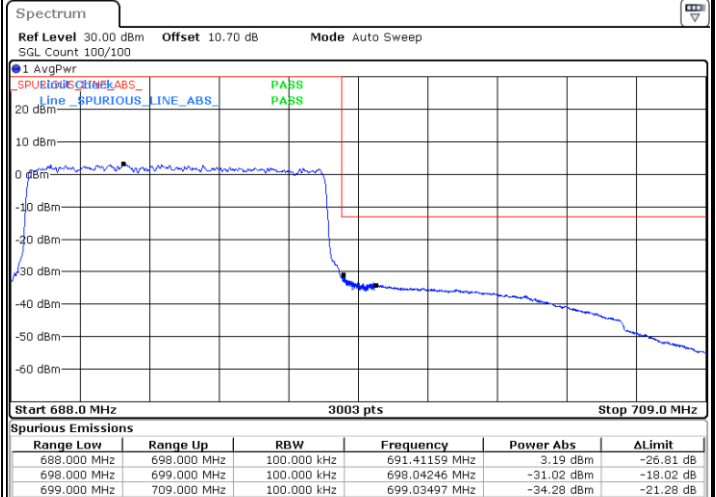
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



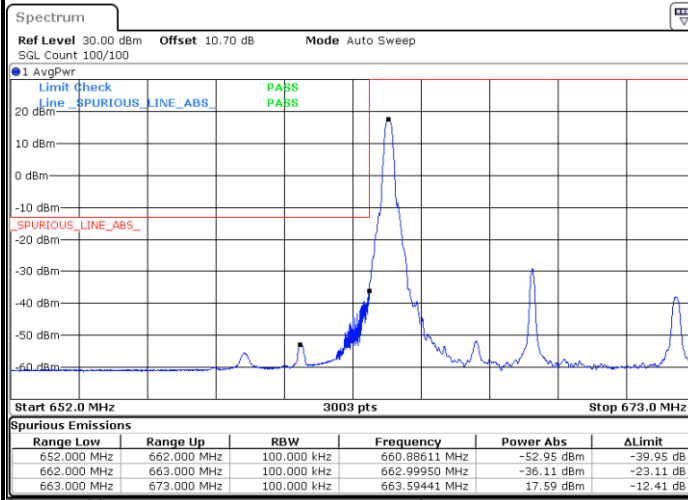
Highest Band Edge / Full RB



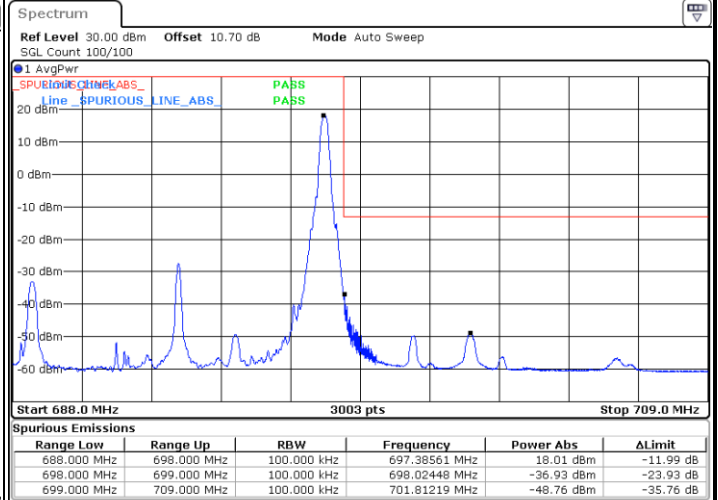


LTE Band 71 / 10MHz / 64QAM

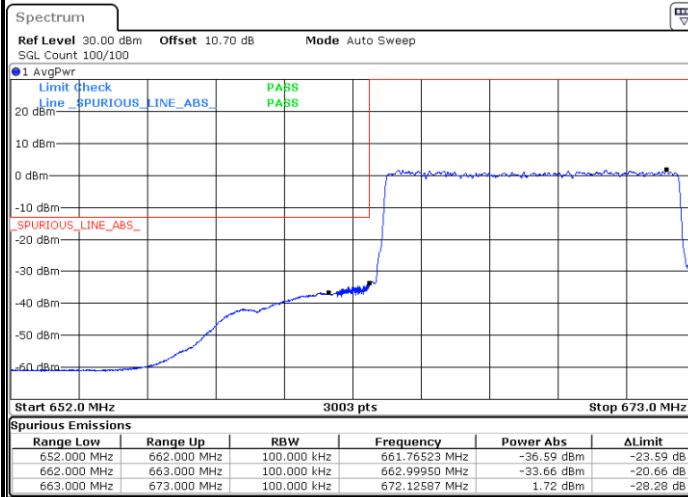
Lowest Band Edge / 1 RB



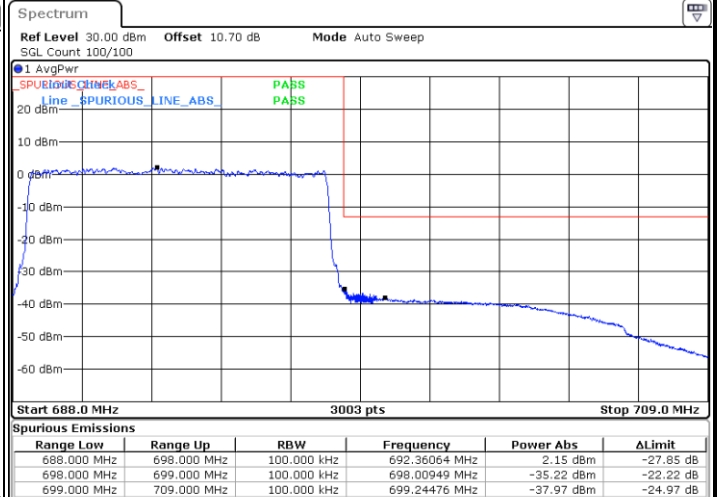
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



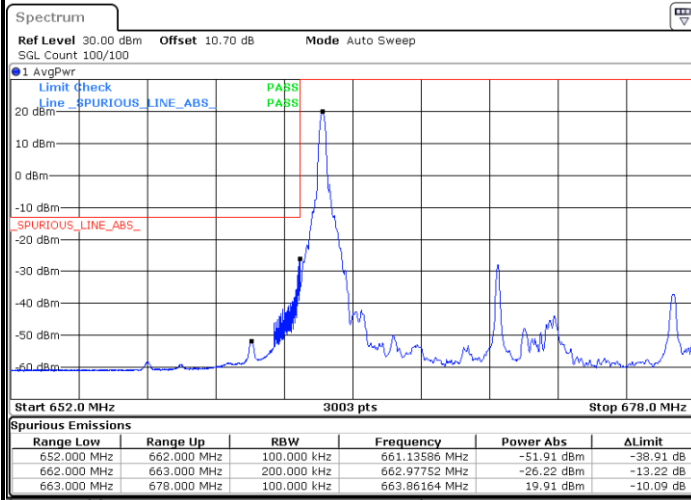
Highest Band Edge / Full RB



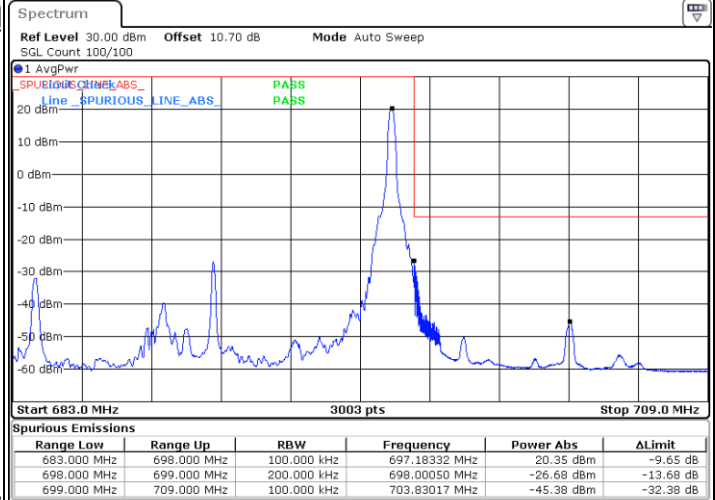


LTE Band 71 / 15MHz / QPSK

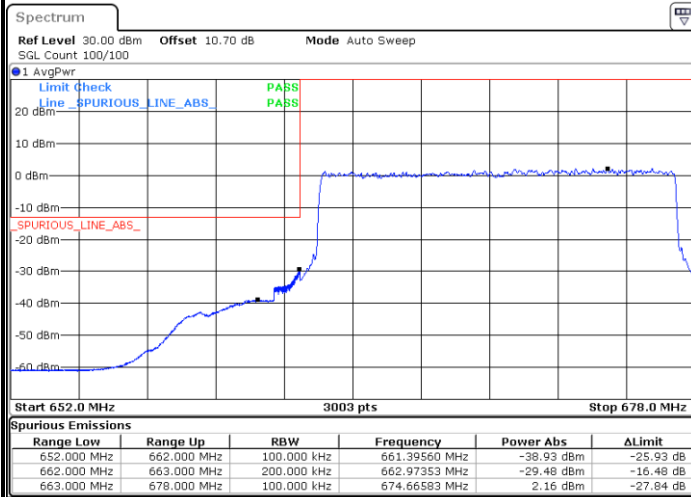
Lowest Band Edge / 1 RB



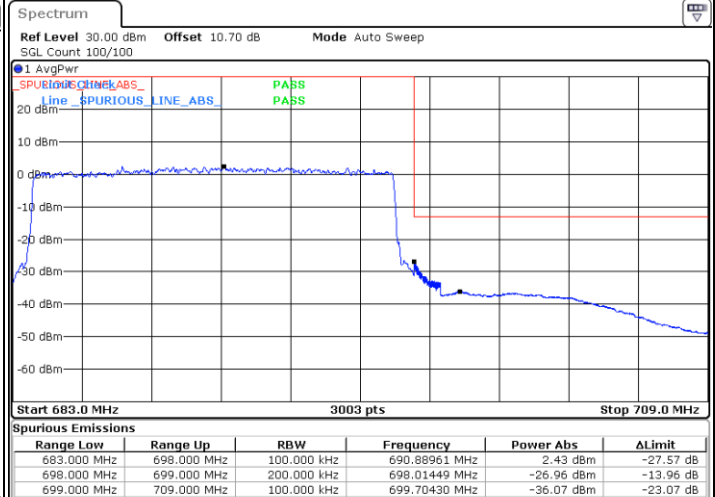
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



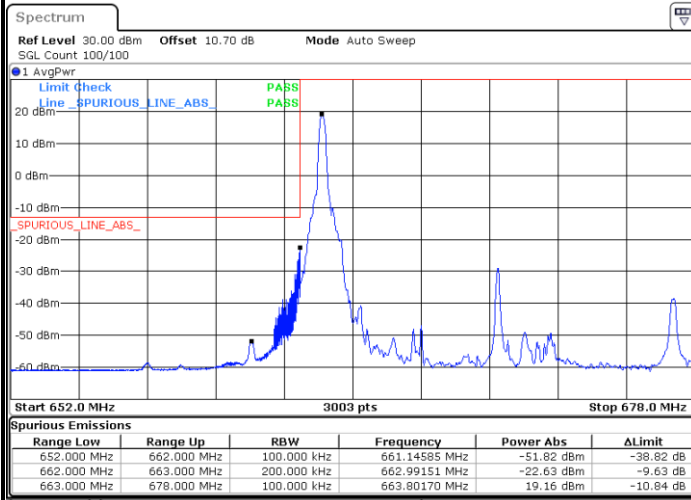
Highest Band Edge / Full RB



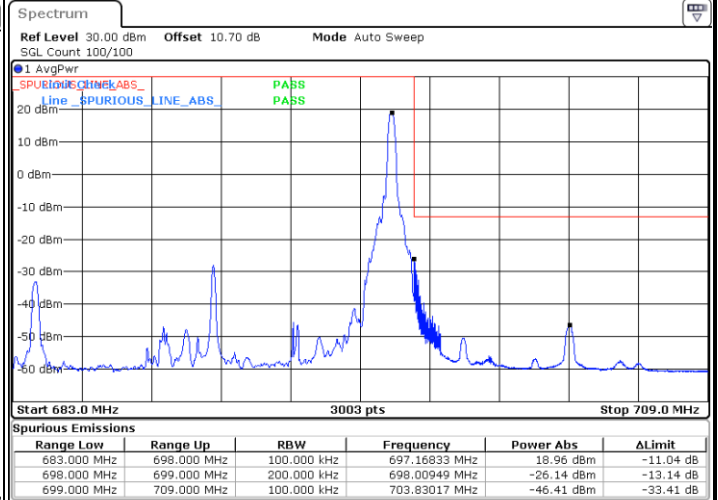


LTE Band 71 / 15MHz / 16QAM

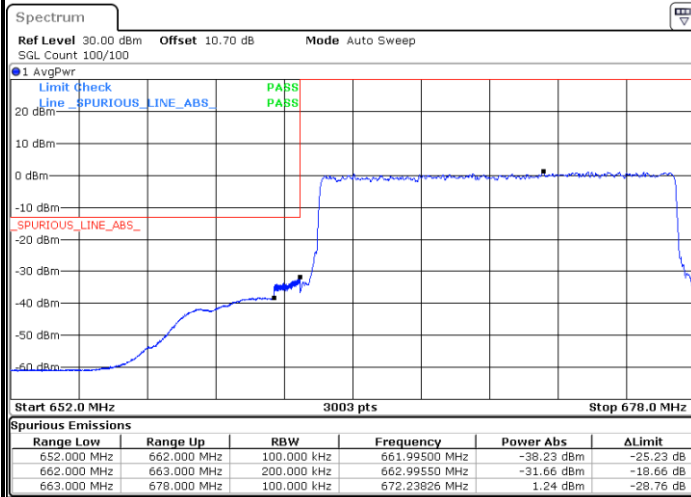
Lowest Band Edge / 1 RB



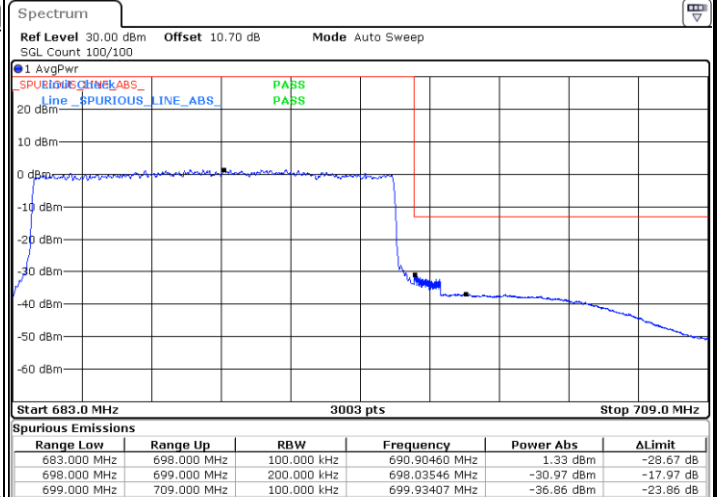
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



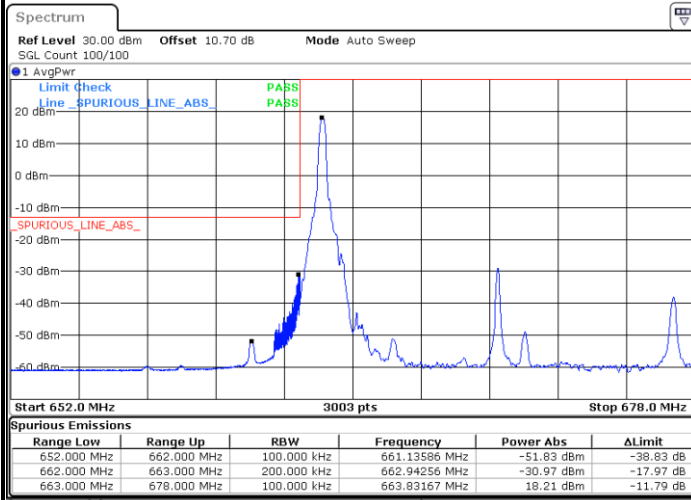
Highest Band Edge / Full RB



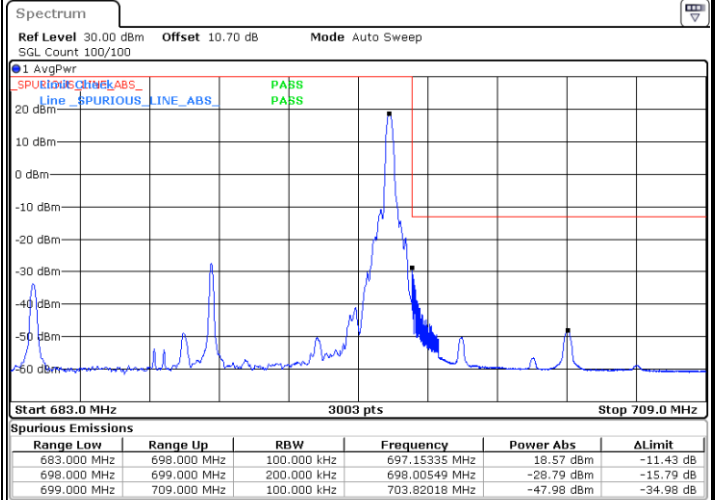


LTE Band 71 / 15MHz / 64QAM

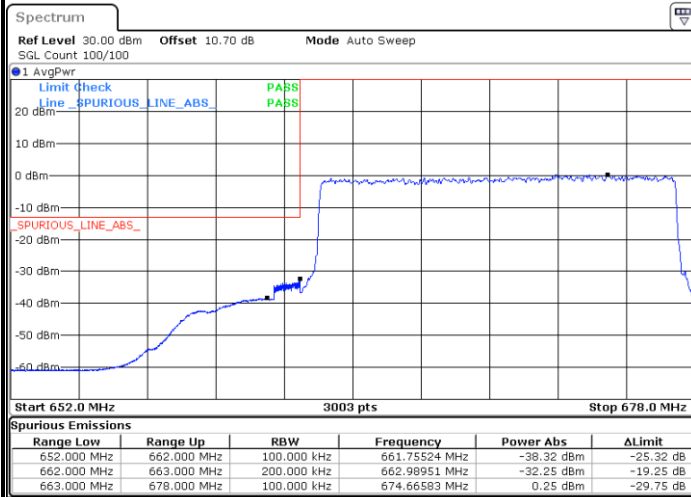
Lowest Band Edge / 1 RB



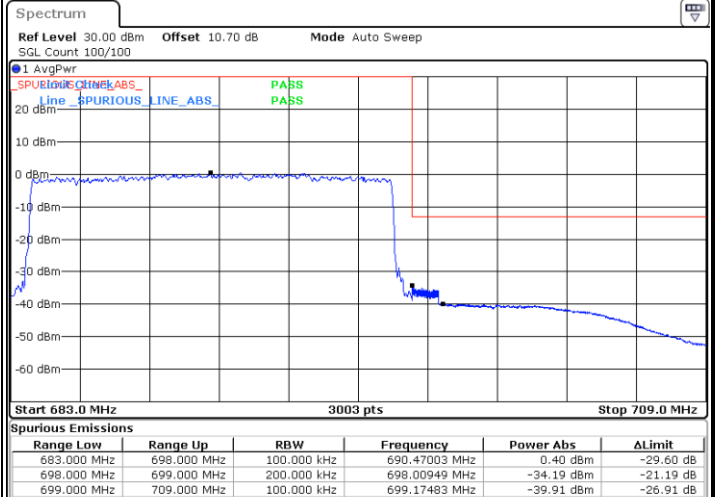
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



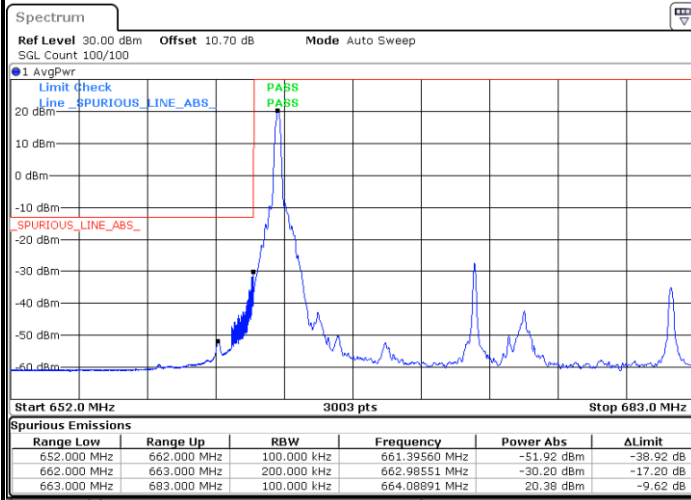
Highest Band Edge / Full RB



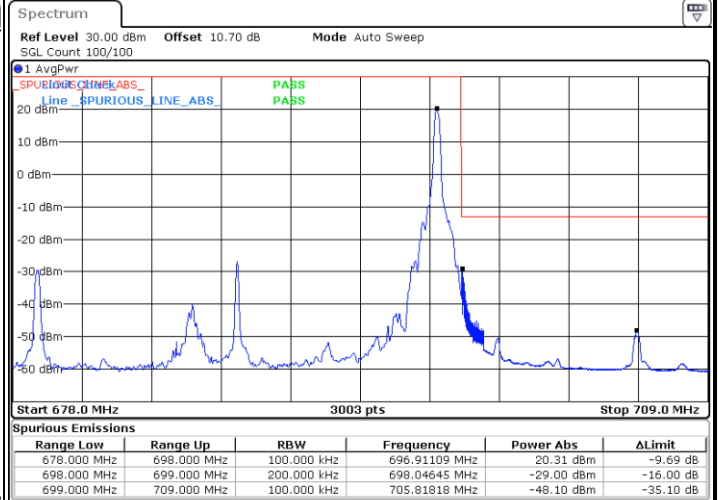


LTE Band 71 / 20MHz / QPSK

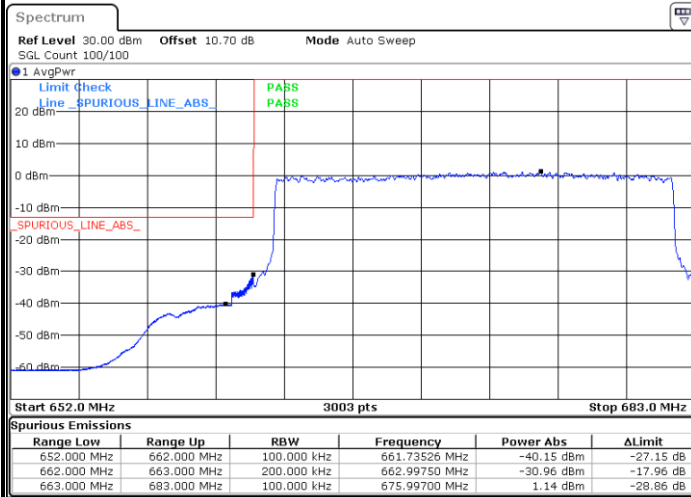
Lowest Band Edge / 1 RB



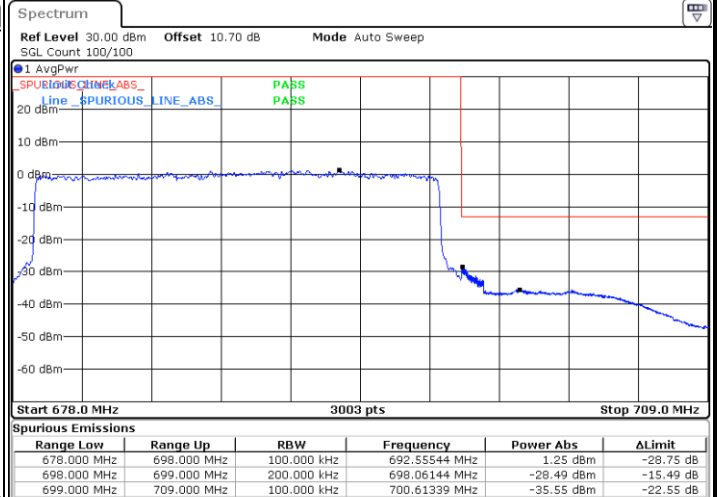
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



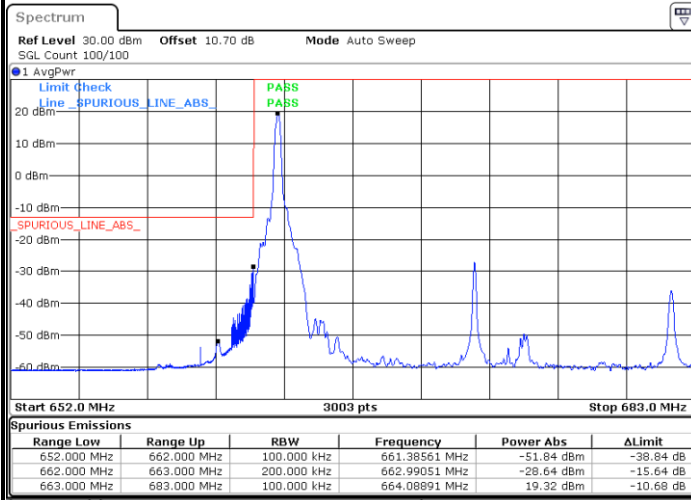
Highest Band Edge / Full RB



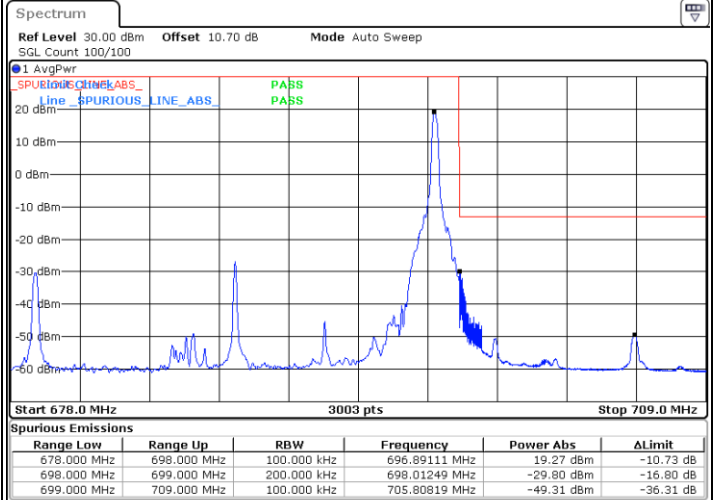


LTE Band 71 / 20MHz / 16QAM

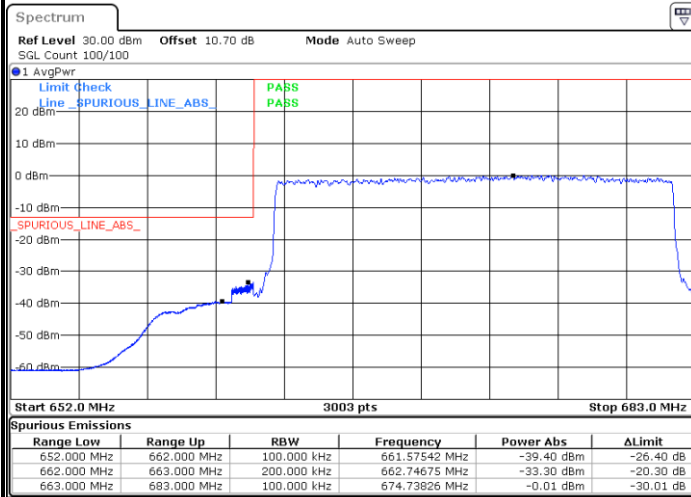
Lowest Band Edge / 1 RB



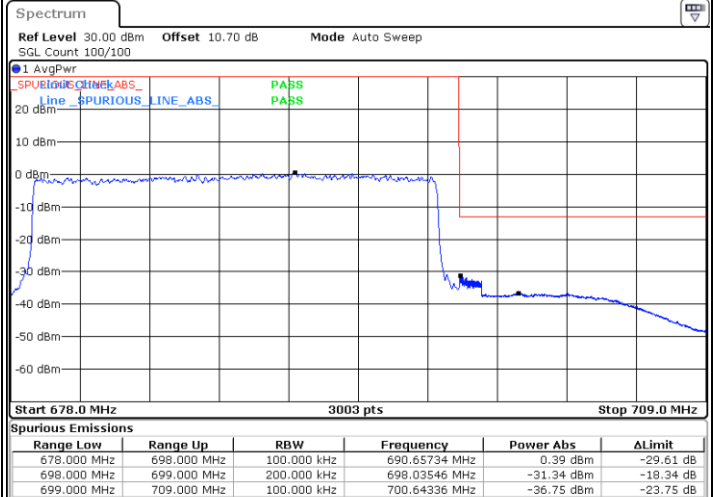
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



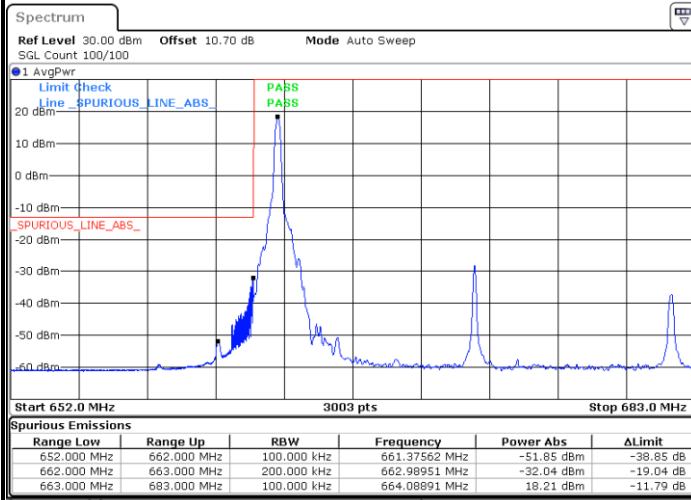
Highest Band Edge / Full RB



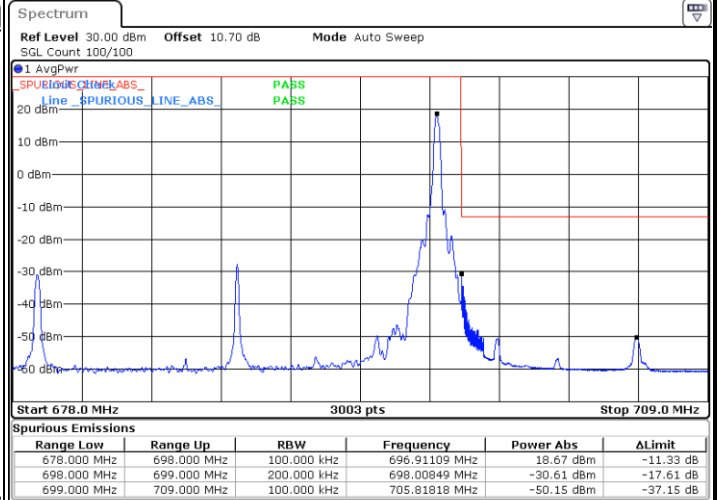


LTE Band 71 / 20MHz / 64QAM

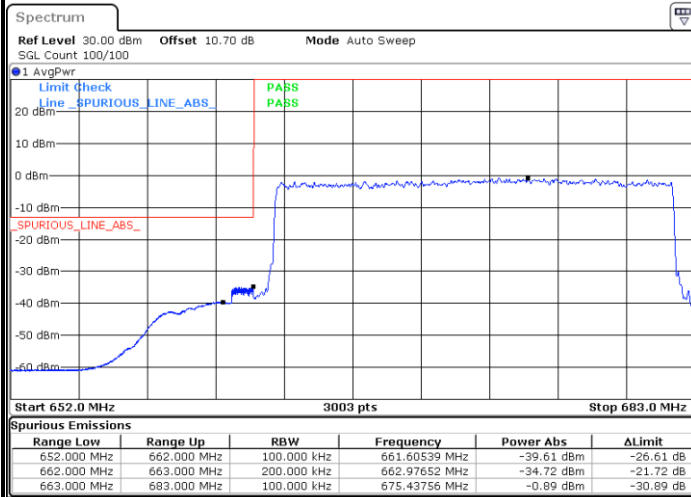
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

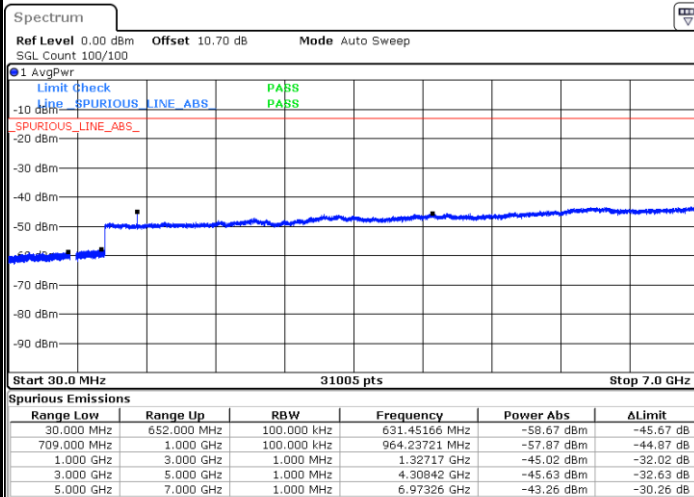




Conducted Spurious Emission

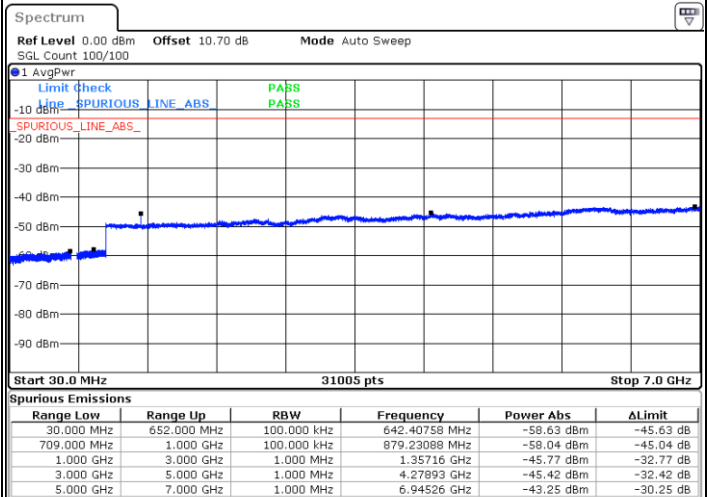
LTE Band 71 / 5MHz

Lowest Channel / QPSK



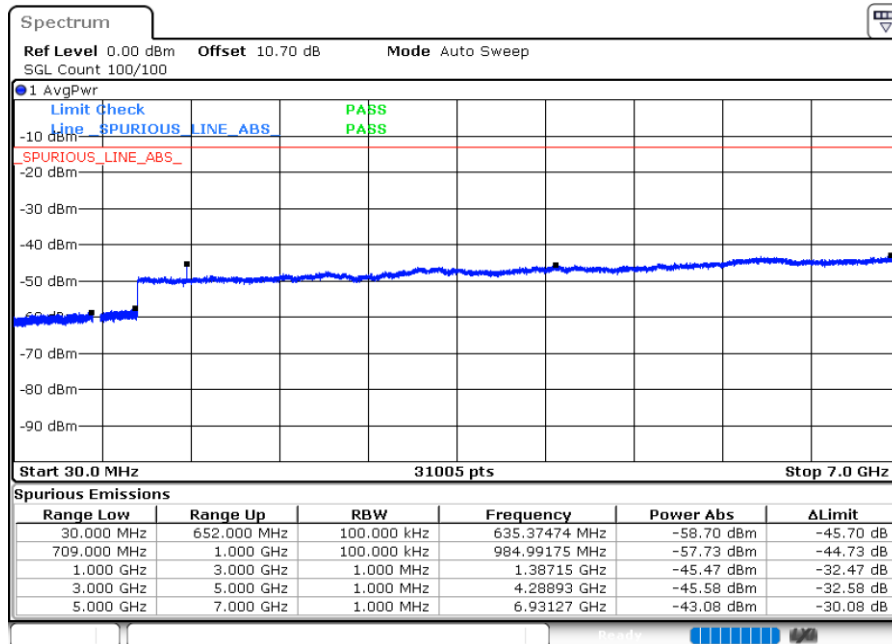
Date: 13.DEC.2020 15:12:39

Middle Channel / QPSK



Date: 13.DEC.2020 15:13:52

Highest Channel / QPSK

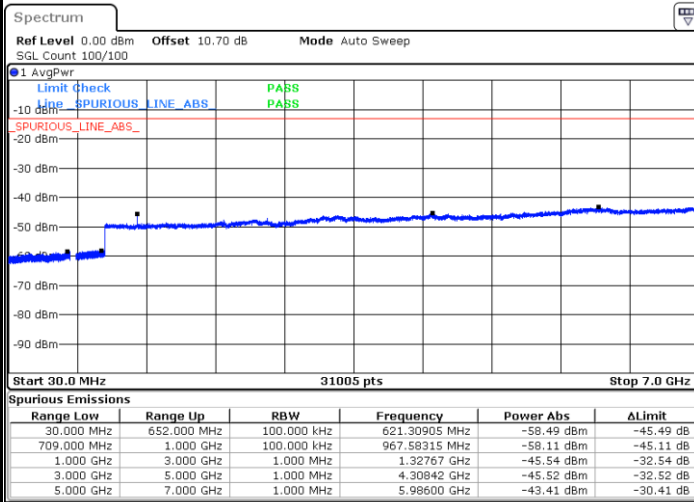


Date: 13.DEC.2020 15:25:55



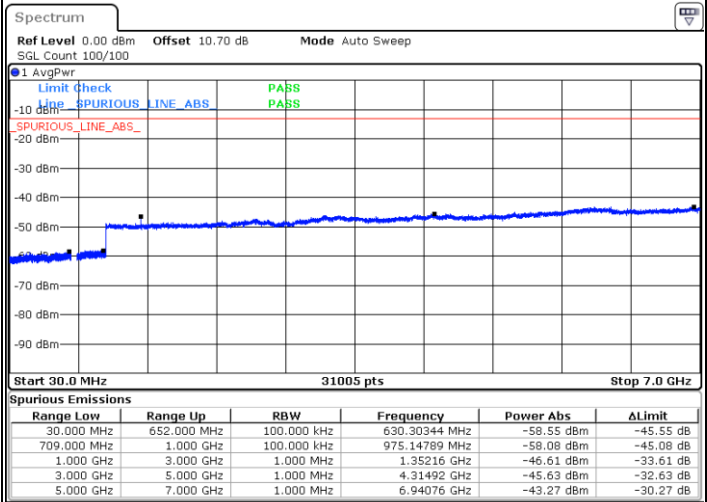
LTE Band 71 / 10MHz

Lowest Channel / QPSK



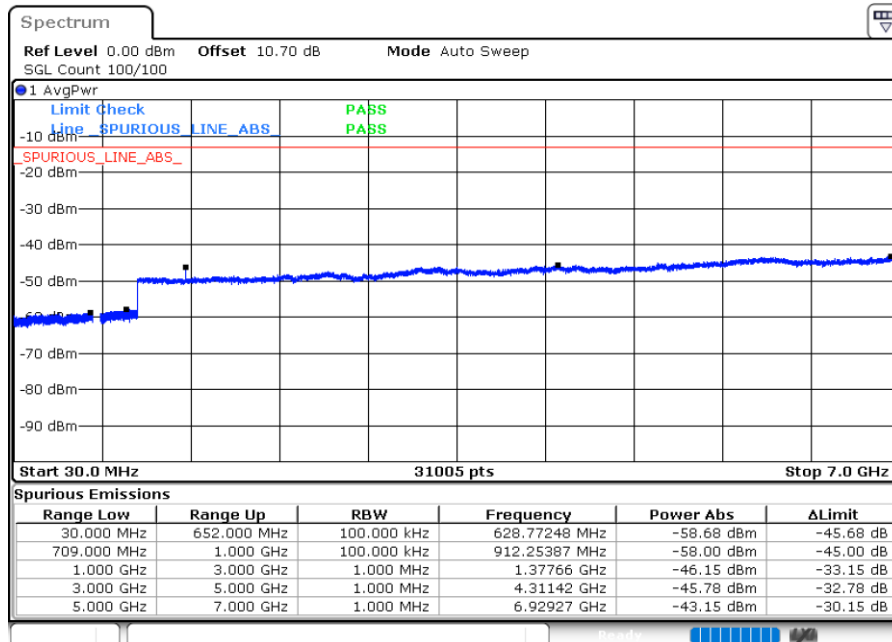
Date: 13.DEC.2020 15:31:25

Middle Channel / QPSK



Date: 13.DEC.2020 15:32:37

Highest Channel / QPSK

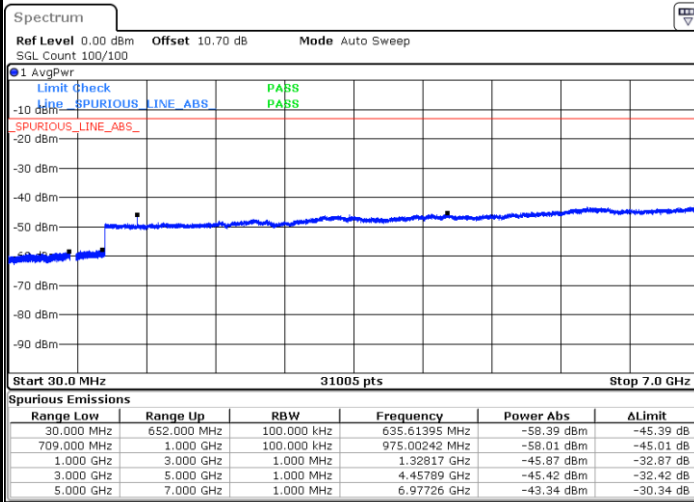


Date: 13.DEC.2020 15:35:24



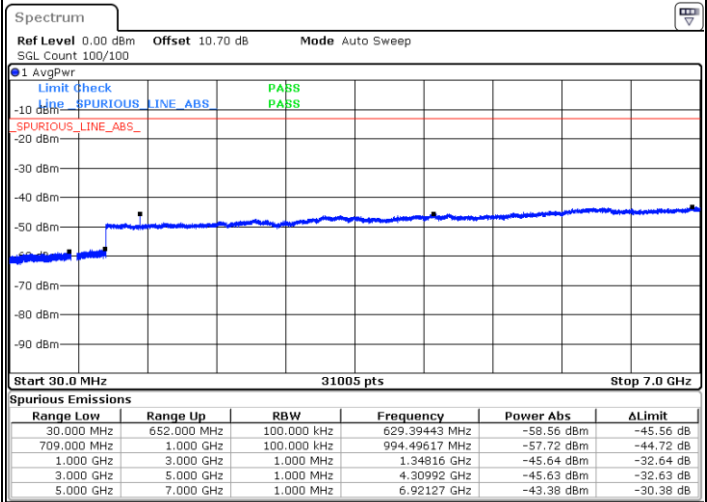
LTE Band 71 / 15MHz

Lowest Channel / QPSK



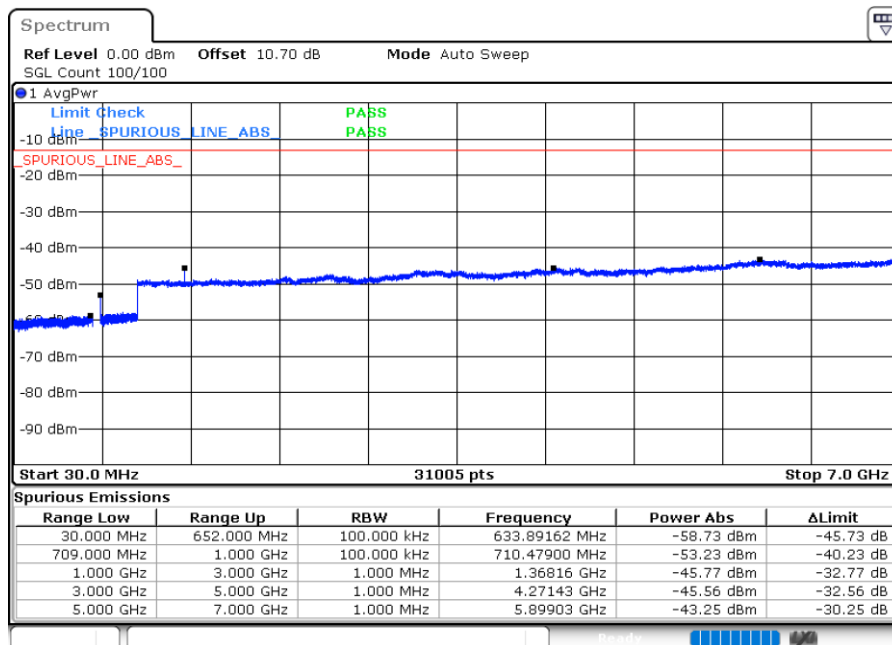
Date: 13.DEC.2020 15:42:04

Middle Channel / QPSK



Date: 13.DEC.2020 15:43:16

Highest Channel / QPSK

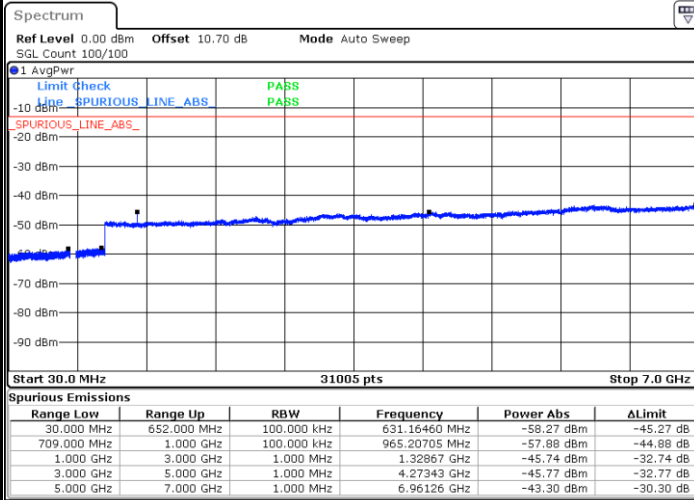


Date: 13.DEC.2020 15:46:03



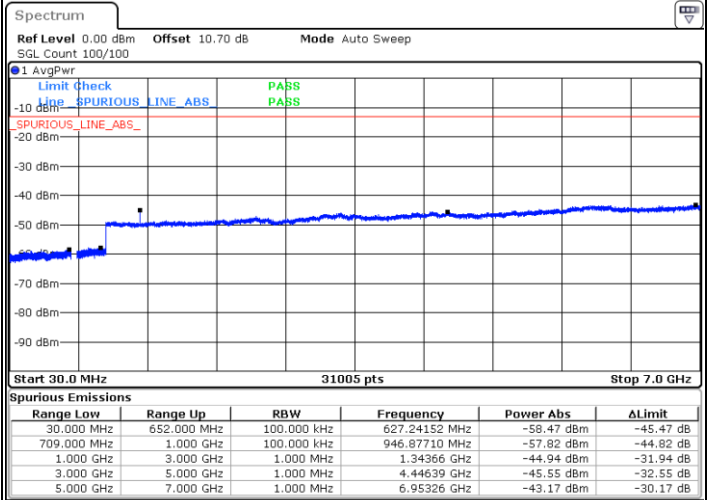
LTE Band 71 / 20MHz

Lowest Channel / QPSK



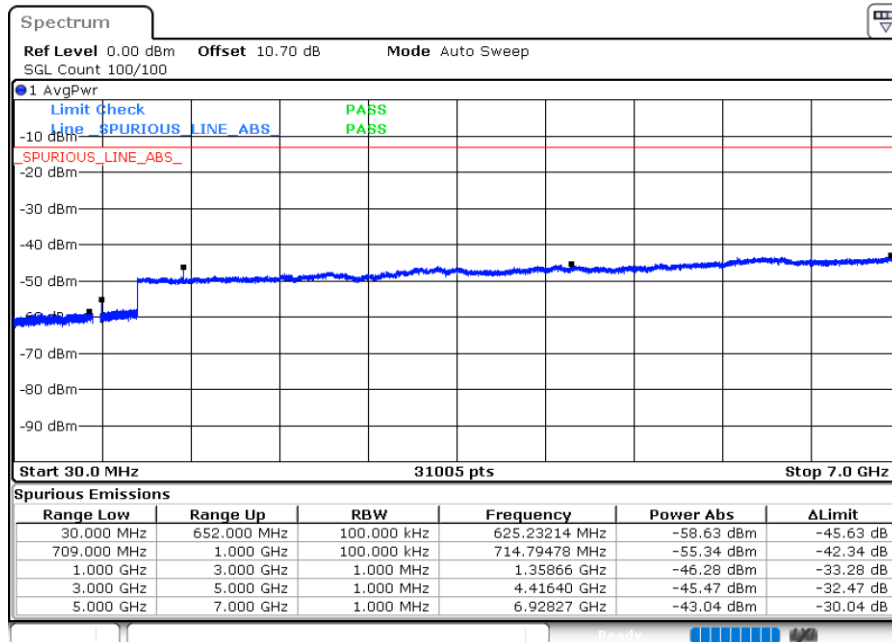
Date: 13.DEC.2020 15:51:29

Middle Channel / QPSK



Date: 13.DEC.2020 15:52:41

Highest Channel / QPSK



Date: 13.DEC.2020 15:55:28

Frequency Stability

Test Conditions		LTE Band 71 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0275	PASS
40	Normal Voltage	0.0275	
30	Normal Voltage	0.0253	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0275	
0	Normal Voltage	0.0190	
-10	Normal Voltage	0.0231	
-20	Normal Voltage	0.0198	
-30	Normal Voltage	0.0001	
20	Maximum Voltage	0.0188	
20	Normal Voltage	0.0275	
20	Battery End Point	0.0217	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.35 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

<Main Antenna>

LTE Band 25

LTE Band 25 / 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)
Lowest	3702	-50.02	-13	-37.02	-67.95	-61.23	1.41	12.62	H
	5556	-38.65	-13	-25.65	-61.8	-50.21	1.74	13.30	H
	7404	-34.56	-13	-21.56	-61.37	-43.88	1.94	11.25	H
	9252	-36.08	-13	-23.08	-65.09	-45.66	2.17	11.75	H
	12958	-39.52	-13	-26.52	-72.91	-50.37	2.79	13.64	H
									H
	3702	-50.75	-13	-37.75	-68.83	-61.96	1.41	12.62	V
	5556	-43.70	-13	-30.70	-66.39	-55.26	1.74	13.30	V
	7404	-34.95	-13	-21.95	-61.61	-44.27	1.94	11.25	V
	9252	-32.78	-13	-19.78	-62.83	-42.36	2.17	11.75	V
	12958	-36.14	-13	-23.14	-70.99	-46.99	2.79	13.64	V
									V
Middle	3744	-47.78	-13	-34.78	-65.9	-59.00	1.42	12.65	H
	5616	-38.12	-13	-25.12	-61.21	-49.68	1.74	13.30	H
	7482	-35.11	-13	-22.11	-61.56	-44.26	1.98	11.13	H
	9357	-35.37	-13	-22.37	-64.4	-44.81	2.20	11.64	H
									H
	3744	-49.04	-13	-36.04	-67.36	-60.26	1.42	12.65	V
	5616	-40.96	-13	-27.96	-63.71	-52.52	1.74	13.30	V
	7482	-35.54	-13	-22.54	-61.93	-44.69	1.98	11.13	V
	9357	-32.66	-13	-19.66	-62.9	-42.10	2.20	11.64	V
									V



Highest	3791	-49.10	-13	-36.10	-67.37	-59.31	2.02	12.23	H
	5687	-38.51	-13	-25.51	-61.94	-48.86	2.11	12.46	H
	7583	-38.65	-13	-25.65	-64.74	-46.83	2.11	10.30	H
	9478	-35.78	-13	-22.78	-64.75	-45.48	2.13	11.83	H
									H
									H
									H
	3791	-49.15	-13	-36.15	-67.67	-59.36	2.02	12.23	V
	5687	-40.44	-13	-27.44	-63.37	-50.79	2.11	12.46	V
	7583	-37.95	-13	-24.95	-63.99	-46.13	2.11	10.30	V
	9478	-32.76	-13	-19.76	-63.04	-42.46	2.13	11.83	V
									V
									V
									V

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

**LTE Band 26**

LTE Band 26 / 10MHz / QPSK									
Channel	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	1649	-43.71	-13	-30.71	-52.16	-49.31	0.92	8.67	H
	2474	-51.15	-13	-38.15	-64.66	-58.52	1.14	10.66	H
	3298	-57.62	-13	-44.62	-72.96	-66.16	1.32	12.02	H
									H
									H
									H
	1648	-47.37	-13	-34.37	-55.29	-52.96	0.92	8.66	V
	2472	-54.60	-13	-41.60	-68.26	-61.97	1.14	10.66	V
	3296	-57.28	-13	-44.28	-73.09	-65.82	1.32	12.01	V
									V
									V
									V
Middle	1664	-43.92	-13	-30.92	-52.42	-49.57	0.93	8.72	H
	2496	-51.51	-13	-38.51	-65.07	-58.91	1.15	10.69	H
	3328	-57.34	-13	-44.34	-72.58	-65.95	1.33	12.09	H
									H
									H
									H
	1664	-48.01	-13	-35.01	-55.92	-53.66	0.93	8.72	V
	2496	-55.20	-13	-42.20	-68.97	-62.60	1.15	10.69	V
	3328	-57.03	-13	-44.03	-72.73	-65.64	1.33	12.09	V
									V
									V
									V



Highest	1680	-44.18	-13	-31.18	-52.72	-49.88	0.93	8.78	H
	2520	-50.87	-13	-37.87	-64.44	-58.29	1.15	10.72	H
	3360	-57.63	-13	-44.63	-72.79	-66.31	1.33	12.16	H
									H
									H
									H
									H
	1680	-47.85	-13	-34.85	-55.74	-53.55	0.93	8.78	V
	2520	-55.79	-13	-42.79	-69.53	-63.21	1.15	10.72	V
	3360	-56.90	-13	-43.90	-72.5	-65.58	1.33	12.16	V
									V
									V
									V
									V

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



LTE Band 26 / 15MHz / QPSK									
Channel	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	1648	-42.89	-13	-29.89	-51.34	-48.48	0.92	8.66	H
	2472	-51.56	-13	-38.56	-65.07	-58.93	1.14	10.66	H
	3296	-57.44	-13	-44.44	-72.78	-65.98	1.32	12.01	H
									H
									H
									H
									H
	1648	-47.58	-13	-34.58	-55.55	-53.17	0.92	8.66	V
	2472	-55.18	-13	-42.18	-68.84	-62.55	1.14	10.66	V
	3296	-56.91	-13	-43.91	-72.72	-65.45	1.32	12.01	V
									V
									V
									V
									V
Middle	1656	-44.28	-13	-31.28	-52.76	-49.90	0.92	8.69	H
	2488	-50.37	-13	-37.37	-63.92	-57.76	1.15	10.68	H
	3320	-57.62	-13	-44.62	-72.88	-66.21	1.33	12.07	H
									H
									H
									H
									H
	1656	-47.70	-13	-34.70	-55.61	-53.32	0.92	8.69	V
	2488	-53.80	-13	-40.80	-67.54	-61.19	1.15	10.68	V
	3320	-56.74	-13	-43.74	-72.46	-65.33	1.33	12.07	V
									V
									V
									V
									V
									V



Highest	1672	-43.87	-13	-30.87	-52.39	-49.55	0.93	8.75	H
	2504	-51.53	-13	-38.53	-65.1	-58.93	1.15	10.70	H
	3336	-57.53	-13	-44.53	-72.75	-66.16	1.33	12.11	H
									H
									H
									H
									H
	1672	-46.75	-13	-33.75	-54.64	-52.43	0.93	8.75	V
	2504	-55.06	-13	-42.06	-68.84	-62.46	1.15	10.70	V
	3336	-57.16	-13	-44.16	-72.84	-65.79	1.33	12.11	V
									V
									V
									V
									V

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

**LTE Band 5B**

LTE CA 5B / 10MHz+10MHz / QPSK									
Channel	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	1664	-50.16	-13	-37.16	-58.66	-55.81	0.93	8.72	H
	2504	-58.38	-13	-45.38	-71.95	-65.78	1.15	10.70	H
	3336	-57.10	-13	-44.10	-72.32	-65.73	1.33	12.11	H
									H
									H
									H
	1664	-53.05	-13	-40.05	-60.96	-58.70	0.93	8.72	V
	2504	-57.97	-13	-44.97	-71.75	-65.37	1.15	10.70	V
	3336	-56.66	-13	-43.66	-72.34	-65.29	1.33	12.11	V
									V
									V
									V
Middle	1672	-53.81	-13	-40.81	-62.33	-59.49	0.93	8.75	H
	2512	-58.80	-13	-45.80	-72.36	-66.21	1.15	10.71	H
	3344	-57.73	-13	-44.73	-72.93	-66.37	1.33	12.13	H
									H
									H
									H
	1672	-56.49	-13	-43.49	-64.38	-62.17	0.93	8.75	V
	2512	-58.42	-13	-45.42	-72.17	-65.83	1.15	10.71	V
	3344	-57.08	-13	-44.08	-72.73	-65.72	1.33	12.13	V
									V
									V
									V



Highest	1680	-50.52	-13	-37.52	-59.06	-56.22	0.93	8.78	H
	2520	-58.69	-13	-45.69	-72.26	-66.11	1.15	10.72	H
	3352	-57.37	-13	-44.37	-72.54	-66.03	1.33	12.14	H
									H
									H
									H
									H
	1680	-52.55	-13	-39.55	-60.44	-58.25	0.93	8.78	V
	2520	-58.80	-13	-45.80	-72.54	-66.22	1.15	10.72	V
	3352	-56.95	-13	-43.95	-72.57	-65.61	1.33	12.14	V
									V
									V
									V
									V

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

**LTE Band 12**

LTE Band 12 / 10MHz / QPSK									
Channel	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	1400	-35.18	-13.00	-22.18	-44.75	-39.83	0.84	7.64	H
	2096	-43.45	-13.00	-30.45	-56.05	-50.37	1.06	10.13	H
	2800	-45.92	-13.00	-32.92	-60.34	-53.61	1.22	11.06	H
	3496	-52.18	-13.00	-39.18	-68.15	-61.16	1.36	12.49	H
									H
									H
	1400	-39.44	-13.00	-26.44	-47.78	-44.09	0.84	7.64	V
	2096	-48.80	-13.00	-35.80	-60.30	-55.72	1.06	10.13	V
	2800	-51.24	-13.00	-38.24	-65.60	-58.93	1.22	11.06	V
	3496	-55.22	-13.00	-42.22	-71.55	-64.20	1.36	12.49	V
									V
									V
Middle	1408	-37.42	-13.00	-24.42	-46.96	-42.10	0.85	7.68	H
	2112	-42.61	-13.00	-29.61	-55.50	-49.55	1.06	10.16	H
	2816	-46.70	-13.00	-33.70	-61.18	-54.40	1.23	11.08	H
	3512	-53.00	-13.00	-40.00	-69.11	-61.99	1.36	12.51	H
									H
									H
	1408	-41.39	-13.00	-28.39	-49.71	-46.07	0.85	7.68	V
	2112	-48.02	-13.00	-35.02	-59.79	-54.96	1.06	10.16	V
	2816	-53.47	-13.00	-40.47	-67.91	-61.17	1.23	11.08	V
	3512	-55.28	-13.00	-42.28	-71.71	-64.27	1.36	12.51	V
									V
									V



Highest	1416	-35.72	-13.00	-22.72	-45.23	-40.44	0.85	7.71	H
	2120	-41.38	-13.00	-28.38	-54.41	-48.33	1.07	10.17	H
	2824	-45.67	-13.00	-32.67	-60.18	-53.38	1.23	11.09	H
	3536	-53.51	-13.00	-40.51	-69.81	-62.51	1.37	12.52	H
									H
									H
									H
	1416	-38.74	-13.00	-25.74	-47.04	-43.46	0.85	7.71	V
	2120	-47.53	-13.00	-34.53	-59.43	-54.48	1.07	10.17	V
	2824	-52.59	-13.00	-39.59	-67.07	-60.30	1.23	11.09	V
	3536	-55.66	-13.00	-42.66	-72.20	-64.66	1.37	12.52	V
									V
									V
									V

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

**LTE Band 13**

LTE Band 13 / 5MHz / QPSK									
Channel	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	1554	-46.10	-13	-33.10	-54.85	-51.36	0.89	8.31	H
	2332	-55.67	-13	-42.67	-69.48	-62.87	1.11	10.46	H
	3109	-57.49	-13	-44.49	-72.91	-65.61	1.29	11.56	H
									H
									H
									H
	1554	-51.23	-13.00	-38.23	-59.25	-56.49	0.89	8.31	V
	2332	-57.54	-13	-44.54	-70.86	-64.74	1.11	10.46	V
	3109	-57.08	-13	-44.08	-72.83	-65.20	1.29	11.56	V
									V
									V
									V
Middle	1559	-45.17	-42.15	-3.02	-53.86	-50.45	0.89	8.32	H
	2339	-54.63	-13	-41.63	-68.41	-61.84	1.11	10.47	H
	3119	-55.57	-13	-42.57	-71.01	-63.71	1.29	11.59	H
									H
									H
									H
	1559	-49.31	-42.15	-7.16	-57.32	-54.59	0.89	8.32	V
	2339	-55.97	-13	-42.97	-69.30	-63.18	1.11	10.47	V
	3119	-55.89	-13	-42.89	-71.68	-64.03	1.29	11.59	V
									V
									V
									V



Highest	1564	-45.94	-42.15	-3.79	-54.56	-51.24	0.89	8.34	H
	2347	-54.79	-13	-41.79	-68.48	-62.01	1.12	10.49	H
	3129	-57.24	-13	-44.24	-72.71	-65.41	1.29	11.61	H
									H
									H
									H
									H
	1564	-50.58	-42.15	-8.43	-58.58	-55.88	0.89	8.34	V
	2347	-57.32	-13	-44.32	-70.65	-64.54	1.12	10.49	V
	3129	-56.83	-13	-43.83	-72.67	-65.00	1.29	11.61	V
									V
									V
									V
									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)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1559	-54.04	-42.15	-11.89	-62.7	-59.32	0.89	8.32	H
	2339	-57.37	-13	-44.37	-71.1	-64.58	1.11	10.47	H
	3119	-56.94	-13	-43.94	-72.39	-65.08	1.29	11.59	H
									H
									H
									H
									H
	1559	-58.25	-42.15	-16.10	-66.26	-63.53	0.89	8.32	V
	2339	-58.56	-13	-45.56	-71.88	-65.77	1.11	10.47	V
	3119	-56.66	-13	-43.66	-72.47	-64.80	1.29	11.59	V
									V
									V
									V
									V

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

**LTE Band 71**

LTE Band 71 / 20MHz / QPSK									
Channel	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	1328	-40.68	-13	-27.68	-49.82	-47.16	0.83	7.31	H
	1992	-58.69	-13	-45.69	-69.47	-67.62	1.04	9.97	H
	2656	-56.18	-13	-43.18	-69.99	-65.88	1.19	10.89	H
									H
									H
									H
	1328	-40.06	-13	-27.06	-48.36	-46.54	0.83	7.31	V
	1992	-58.26	-13	-45.26	-68.07	-67.19	1.04	9.97	V
	2656	-55.17	-13	-42.17	-68.95	-64.87	1.19	10.89	V
									V
									V
									V
Middle	1352	-42.75	-13	-29.75	-52.03	-49.34	0.83	7.42	H
	2024	-58.32	-13	-45.32	-69.61	-67.31	1.05	10.03	H
	2696	-57.17	-13	-44.17	-71.16	-66.91	1.20	10.94	H
									H
									H
									H
	1352	-42.17	-13	-29.17	-50.49	-48.76	0.83	7.42	V
	2024	-58.03	-13	-45.03	-68.32	-67.02	1.05	10.03	V
	2696	-57.24	-13	-44.24	-71.18	-66.98	1.20	10.94	V
									V
									V
									V



Highest	1360	-43.07	-13	-30.07	-52.4	-49.69	0.83	7.46	H
	2040	-57.43	-13	-44.43	-69.01	-66.43	1.05	10.06	H
	2716	-55.90	-13	-42.90	-69.99	-65.66	1.20	10.96	H
									H
									H
									H
									H
	1360	-42.69	-13	-29.69	-51.01	-49.31	0.83	7.46	V
	2040	-55.72	-13	-42.72	-66.27	-64.73	1.05	10.06	V
	2716	-55.58	-13	-42.58	-69.62	-65.34	1.20	10.96	V
									V
									V
									V
									V

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

**LTE Band 66**

LTE Band 66 / 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)
Lowest	3420	-54.45	-13	-41.45	-70.37	-65.41	1.35	12.31	H
	5135	-43.77	-13	-30.77	-65.72	-54.91	1.65	12.79	H
	6843	-36.81	-13	-23.81	-62.18	-47.19	1.74	12.12	H
	8558	-43.96	-13	-30.96	-71.69	-54.07	2.06	12.18	H
									H
									H
	3420	-50.16	-13	-37.16	-66.5	-61.12	1.35	12.31	V
	5135	-44.70	-13	-31.70	-66.4	-55.84	1.65	12.79	V
	6843	-27.80	-13	-14.80	-52.77	-38.18	1.74	12.12	V
	8558	-43.76	-13	-30.76	-72.13	-53.87	2.06	12.18	V
									V
									V
Middle	3469	-51.99	-13	-38.99	-68.39	-63.06	1.35	12.43	H
	5212	-43.96	-13	-30.96	-65.93	-55.19	1.67	12.90	H
	6941	-34.49	-13	-21.49	-60.35	-44.74	1.73	11.98	H
	8684	-42.21	-13	-29.21	-70.45	-52.27	2.07	12.13	H
									H
									H
	3469	-50.40	-13	-37.40	-67.18	-61.47	1.35	12.43	V
	5212	-42.38	-13	-29.38	-64.16	-53.61	1.67	12.90	V
	6941	-32.61	-13	-19.61	-58.01	-42.86	1.73	11.98	V
	8684	-42.86	-13	-29.86	-71.84	-52.92	2.07	12.13	V
									V
									V



Highest	3525	-49.40	-13	-36.40	-66.29	-60.55	1.37	12.52	H
	5282	-45.80	-13	-32.80	-68.02	-57.11	1.68	12.99	H
	7046	-30.87	-13	-17.87	-57.18	-40.95	1.74	11.83	H
	8803	-34.64	-13	-21.64	-63.26	-44.65	2.07	12.08	H
	10568	-36.98	-13	-23.98	-67.82	-45.45	2.43	10.90	H
									H
									H
	3525	-53.17	-13	-40.17	-70.34	-64.32	1.37	12.52	V
	5282	-43.70	-13	-30.70	-65.66	-55.01	1.68	12.99	V
	7046	-29.15	-13	-16.15	-55.01	-39.23	1.74	11.83	V
	8803	-40.84	-13	-27.84	-70.13	-50.85	2.07	12.08	V
	10568	-39.87	-13	-26.87	-70.43	-48.34	2.43	10.90	V
									V
									V

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

**LTE Band 7**

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)
Lowest	5004	-29.87	-25	-4.87	-51.89	-40.86	1.61	12.61	H
	7506	-42.81	-25	-17.81	-69.15	-51.92	1.99	11.10	H
	10008	-30.92	-25	-5.92	-60.49	-39.81	2.40	11.29	H
									H
									H
									H
	5004	-27.06	-25	-2.06	-48.64	-38.05	1.61	12.61	V
	7506	-43.59	-25	-18.59	-69.9	-52.70	1.99	11.10	V
	10008	-27.86	-25	-2.86	-58.21	-36.75	2.40	11.29	V
									V
									V
									V
Middle	5052	-33.24	-25	-8.24	-55.24	-44.29	1.62	12.67	H
	7578	-45.86	-25	-20.86	-71.82	-54.97	2.00	11.12	H
	10107	-30.99	-25	-5.99	-60.81	-39.81	2.40	11.21	H
									H
									H
									H
	5052	-30.00	-25	-5.00	-51.63	-41.05	1.62	12.67	V
	7578	-46.61	-25	-21.61	-72.53	-55.72	2.00	11.12	V
	10107	-26.98	-25	-1.98	-57.37	-35.80	2.40	11.21	V
									V
									V
									V



Highest	5100	-34.76	-25	-9.76	-56.74	-45.86	1.64	12.74	H
	7656	-46.50	-25	-21.50	-72.37	-55.62	2.01	11.13	H
	10206	-34.51	-25	-9.51	-64.58	-43.25	2.40	11.14	H
									H
									H
									H
									H
	5100	-31.25	-25	-6.25	-52.93	-42.35	1.64	12.74	V
	7656	-45.11	-25	-20.11	-70.86	-54.23	2.01	11.13	V
	10206	-30.34	-25	-5.34	-60.76	-39.08	2.40	11.14	V
									V
									V
									V
									V

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

**LTE Band 41**

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)
Lowest	5112	-30.40	-25	-5.40	-52.36	-41.52	1.64	12.76	H
	7668	-40.33	-25	-15.33	-66.21	-49.45	2.01	11.13	H
	10224	-29.95	-25	-4.95	-60.08	-38.68	2.40	11.12	H
									H
									H
									H
	5112	-34.76	-25	-9.76	-56.44	-45.88	1.64	12.76	V
	7668	-44.24	-25	-19.24	-69.98	-53.36	2.01	11.13	V
	10224	-32.98	-25	-7.98	-63.42	-41.71	2.40	11.12	V
									V
									V
									V
Middle	5192	-36.44	-25	-11.44	-58.38	-47.65	1.66	12.87	H
	7788	-42.63	-25	-17.63	-68.56	-51.76	2.03	11.16	H
	10384	-32.51	-25	-7.51	-63.05	-41.11	2.39	10.99	H
									H
									H
									H
	5192	-42.54	-25	-17.54	-64.31	-53.75	1.66	12.87	V
	7788	-46.15	-25	-21.15	-71.79	-55.28	2.03	11.16	V
	10384	-37.38	-25	-12.38	-67.88	-45.98	2.39	10.99	V
									V
									V
									V



Highest	5274	-34.16	-25	-9.16	-56.36	-45.46	1.68	12.98	H
	7908	-39.59	-25	-14.59	-66.21	-48.72	2.05	11.18	H
	10548	-32.69	-25	-7.69	-63.53	-41.18	2.41	10.90	H
									H
									H
									H
									H
	5274	-40.30	-25	-15.30	-62.24	-51.60	1.68	12.98	V
	7908	-45.28	-25	-20.28	-71.69	-54.41	2.05	11.18	V
	10548	-36.82	-25	-11.82	-67.38	-45.31	2.41	10.90	V
									V
									V
									V
									V

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

**LTE Band 41C**

LTE CA 41C / 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)
Lowest	5148	-42.15	-25	-17.15	-64.1	-53.31	1.65	12.81	H
	7722	-47.41	-25	-22.41	-73.31	-56.53	2.02	11.14	H
	10296	-40.39	-25	-15.39	-70.69	-49.06	2.39	11.06	H
									H
									H
									H
	5148	-32.24	-25	-7.24	-53.95	-43.40	1.65	12.81	V
	7722	-44.69	-25	-19.69	-70.39	-53.81	2.02	11.14	V
	10296	-37.90	-25	-12.90	-68.36	-46.57	2.39	11.06	V
									V
									V
									V
Middle	5208	-46.51	-25	-21.51	-68.47	-57.74	1.66	12.89	H
	7812	-47.50	-25	-22.50	-73.5	-56.63	2.03	11.16	H
	10422	-38.60	-25	-13.60	-69.22	-47.17	2.39	10.96	H
									H
									H
									H
	5208	-37.05	-25	-12.05	-58.84	-48.28	1.66	12.89	V
	7812	-44.74	-25	-19.74	-70.45	-53.87	2.03	11.16	V
	10422	-35.35	-25	-10.35	-65.85	-43.92	2.39	10.96	V
									V
									V
									V



Highest	5268	-41.01	-25	-16.01	-63.19	-52.31	1.68	12.98	H
	7902	-46.81	-25	-21.81	-73.4	-55.94	2.05	11.18	H
	10539	-39.27	-25	-14.27	-70.11	-47.76	2.41	10.90	H
									H
									H
									H
									H
	5268	-33.46	-25	-8.46	-55.39	-44.76	1.68	12.98	V
	7902	-44.20	-25	-19.20	-70.56	-53.33	2.05	11.18	V
	10539	-35.10	-25	-10.10	-65.66	-43.59	2.41	10.90	V
									V
									V
									V
									V

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



<Diversity Antenna>

LTE Band 12

LTE Band 12 / 10MHz / QPSK									
Channel	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	1400	-60.95	-13.00	-47.95	-70.52	-65.60	0.84	7.64	H
	2096	-51.92	-13.00	-38.92	-64.52	-58.84	1.06	10.13	H
	2800	-57.69	-13.00	-44.69	-72.11	-65.38	1.22	11.06	H
									H
									H
									H
	1400	-62.10	-13.00	-49.10	-70.44	-66.75	0.84	7.64	V
	2096	-53.18	-13.00	-40.18	-64.68	-60.10	1.06	10.13	V
	2800	-57.50	-13.00	-44.50	-71.86	-65.19	1.22	11.06	V
									V
									V
									V
Middle	1408	-60.63	-13.00	-47.63	-70.17	-65.31	0.85	7.68	H
	2112	-51.76	-13.00	-38.76	-64.65	-58.70	1.06	10.16	H
	2816	-57.27	-13.00	-44.27	-71.75	-64.97	1.23	11.08	H
									H
									H
									H
	1408	-62.74	-13.00	-49.74	-71.06	-67.42	0.85	7.68	V
	2112	-53.51	-13.00	-40.51	-65.28	-60.45	1.06	10.16	V
	2816	-57.79	-13.00	-44.79	-72.23	-65.49	1.23	11.08	V
									V
									V
									V



Highest	1416	-59.47	-13.00	-46.47	-68.98	-64.19	0.85	7.71	H
	2120	-49.38	-13.00	-36.38	-62.41	-56.33	1.07	10.17	H
	2824	-57.77	-13.00	-44.77	-72.28	-65.48	1.23	11.09	H
									H
									H
									H
									H
	1416	-62.88	-13.00	-49.88	-71.18	-67.60	0.85	7.71	V
	2120	-49.91	-13.00	-36.91	-61.81	-56.86	1.07	10.17	V
	2824	-57.66	-13.00	-44.66	-72.14	-65.37	1.23	11.09	V
									V
									V
									V
									V

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

**LTE Band 71**

LTE Band 71 / 20MHz / QPSK									
Channel	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	1328	-59.13	-13	-46.13	-68.27	-65.61	0.83	7.31	H
	1992	-60.08	-13	-47.08	-70.86	-69.01	1.04	9.97	H
	2656	-58.56	-13	-45.56	-72.37	-68.26	1.19	10.89	H
									H
									H
									H
	1328	-62.26	-13	-49.26	-70.56	-68.74	0.83	7.31	V
	1992	-61.81	-13	-48.81	-71.62	-70.74	1.04	9.97	V
	2656	-58.80	-13	-45.80	-72.58	-68.50	1.19	10.89	V
									V
									V
									V
Middle	1352	-58.95	-13	-45.95	-68.23	-65.54	0.83	7.42	H
	2024	-60.32	-13	-47.32	-71.61	-69.31	1.05	10.03	H
	2696	-58.79	-13	-45.79	-72.78	-68.53	1.20	10.94	H
									H
									H
									H
	1352	-61.79	-13	-48.79	-70.11	-68.38	0.83	7.42	V
	2024	-61.22	-13	-48.22	-71.51	-70.21	1.05	10.03	V
	2696	-58.61	-13	-45.61	-72.55	-68.35	1.20	10.94	V
									V
									V
									V



Highest	1360	-59.20	-13	-46.20	-68.53	-65.82	0.83	7.46	H
	2040	-60.00	-13	-47.00	-71.58	-69.01	1.05	10.06	H
	2716	-58.09	-13	-45.09	-72.14	-67.85	1.20	10.96	H
									H
									H
									H
									H
	1360	-61.80	-13	-48.80	-70.12	-68.42	0.83	7.46	V
	2040	-61.10	-13	-48.10	-71.65	-70.11	1.05	10.06	V
	2712	-58.29	-13	-45.29	-72.29	-68.04	1.20	10.95	V
									V
									V
									V
									V

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

**LTE Band 66**

LTE Band 66 / 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)
Lowest	3422	-51.70	-13	-38.70	-67.64	-62.67	1.35	12.31	H
	5133	-43.24	-13	-30.24	-65.19	-54.38	1.64	12.79	H
	6844	-31.17	-13	-18.17	-56.54	-41.55	1.74	12.12	H
	8555	-42.22	-13	-29.22	-69.94	-52.34	2.06	12.18	H
	10267	-38.01	-13	-25.01	-68.24	-46.70	2.39	11.09	H
									H
	3422	-51.36	-13	-38.36	-67.72	-62.33	1.35	12.31	V
	5133	-43.25	-13	-30.25	-64.95	-54.39	1.64	12.79	V
	6844	-28.35	-13	-15.35	-53.33	-38.73	1.74	12.12	V
	8555	-44.14	-13	-31.14	-72.49	-54.26	2.06	12.18	V
	10267	-39.62	-13	-26.62	-70.07	-48.31	2.39	11.09	V
									V
Middle	3472	-50.46	-13	-37.46	-66.88	-61.54	1.35	12.43	H
	5208	-43.55	-13	-30.55	-65.51	-54.78	1.66	12.89	H
	6944	-28.02	-13	-15.02	-53.9	-38.27	1.73	11.98	H
	8680	-39.42	-13	-26.42	-67.65	-49.48	2.07	12.13	H
	10417	-38.30	-13	-25.30	-68.91	-46.87	2.39	10.97	H
									H
	3472	-50.41	-13	-37.41	-67.21	-61.49	1.35	12.43	V
	5208	-39.05	-13	-26.05	-60.84	-50.28	1.66	12.89	V
	6944	-28.35	-13	-15.35	-53.77	-38.60	1.73	11.98	V
	8680	-43.10	-13	-30.10	-72.07	-53.16	2.07	12.13	V
	10417	-40.34	-13	-27.34	-70.84	-48.91	2.39	10.97	V
									V



Highest	3525	-50.28	-13	-37.28	-67.17	-61.43	1.37	12.52	H
	5282	-42.50	-13	-29.50	-64.72	-53.81	1.68	12.99	H
	7046	-27.72	-13	-14.72	-54.03	-37.80	1.74	11.83	H
	8803	-35.51	-13	-22.51	-64.13	-45.52	2.07	12.08	H
	10568	-36.85	-13	-23.85	-67.69	-45.32	2.43	10.90	H
									H
									H
	3525	-52.26	-13	-39.26	-69.43	-63.41	1.37	12.52	V
	5282	-41.52	-13	-28.52	-63.48	-52.83	1.68	12.99	V
	7046	-27.71	-13	-14.71	-53.57	-37.79	1.74	11.83	V
	8803	-40.50	-13	-27.50	-69.79	-50.51	2.07	12.08	V
	10568	-39.80	-13	-26.80	-70.36	-48.27	2.43	10.90	V
									V
									V

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