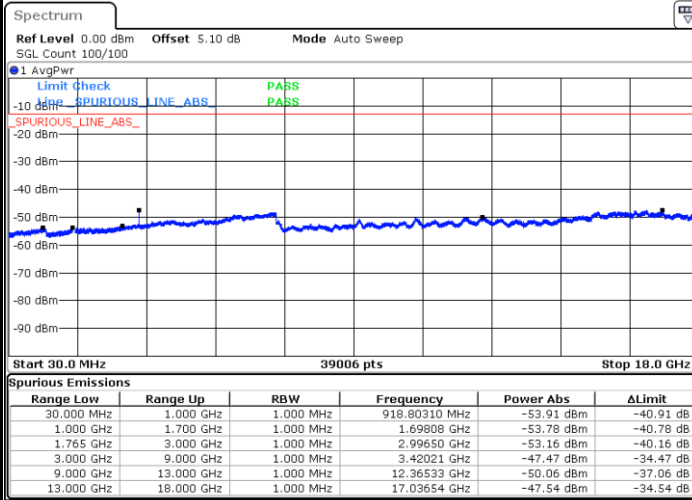




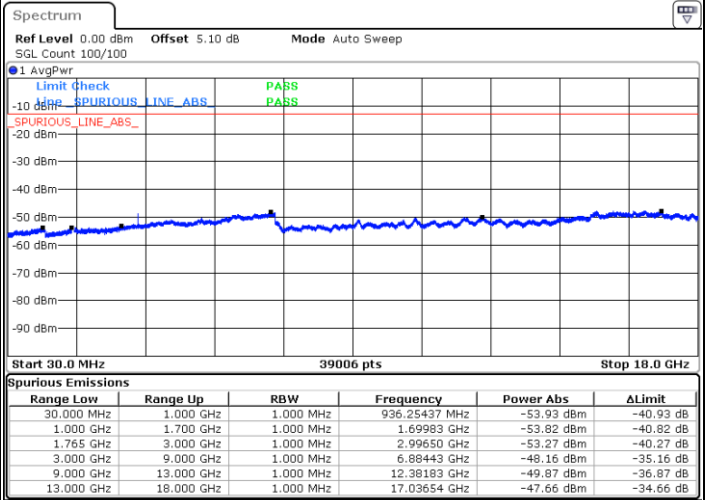
LTE Band 4 / 1.4MHz

Lowest Channel / QPSK



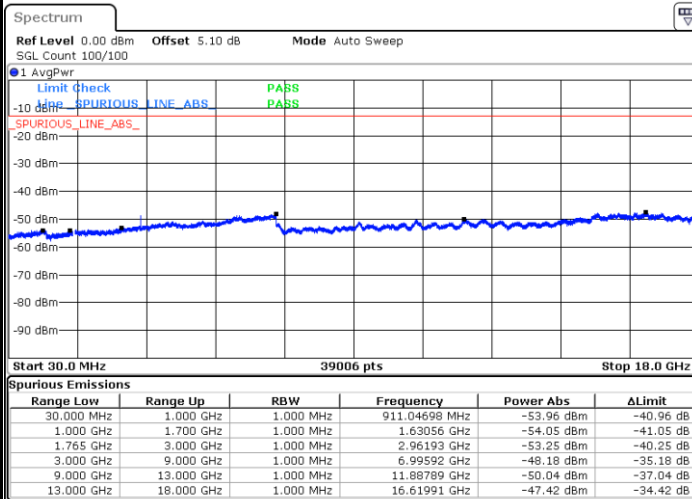
Date: 4 SEP. 2017 20:58:49

Lowest Channel / 16QAM



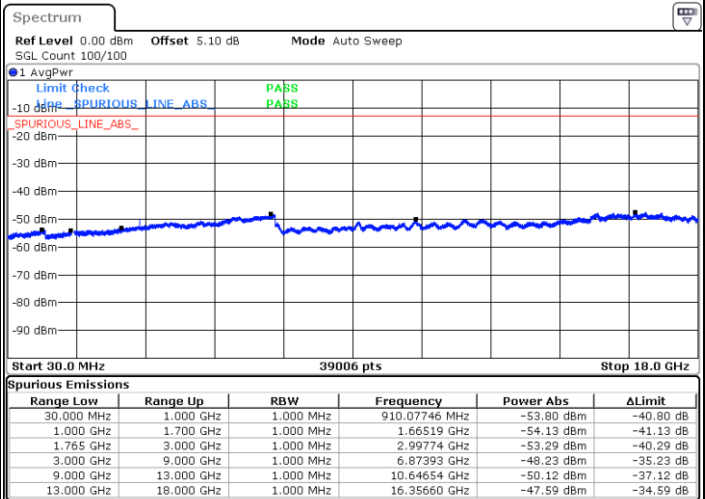
Date: 4 SEP. 2017 20:59:44

Middle Channel / QPSK



Date: 4 SEP. 2017 21:01:18

Middle Channel / 16QAM

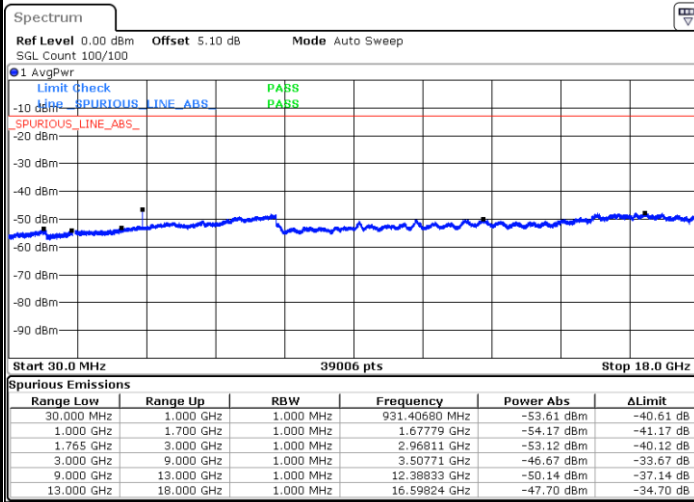


Date: 4 SEP. 2017 21:02:13



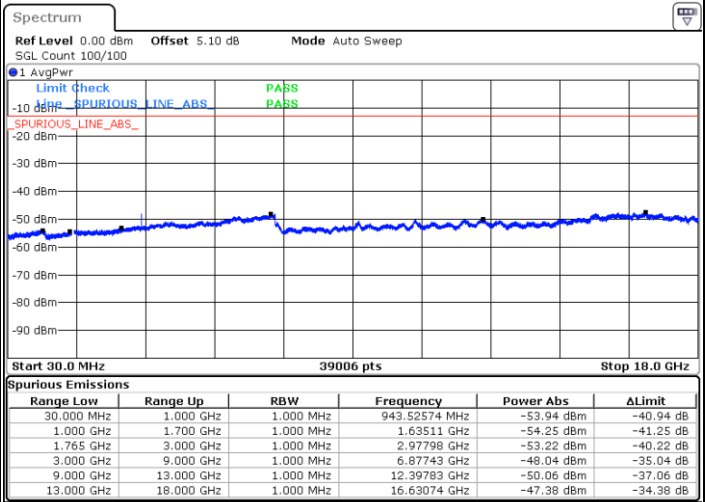
LTE Band 4 / 1.4MHz

Highest Channel / QPSK



Date: 4 SEP. 2017 21:03:47

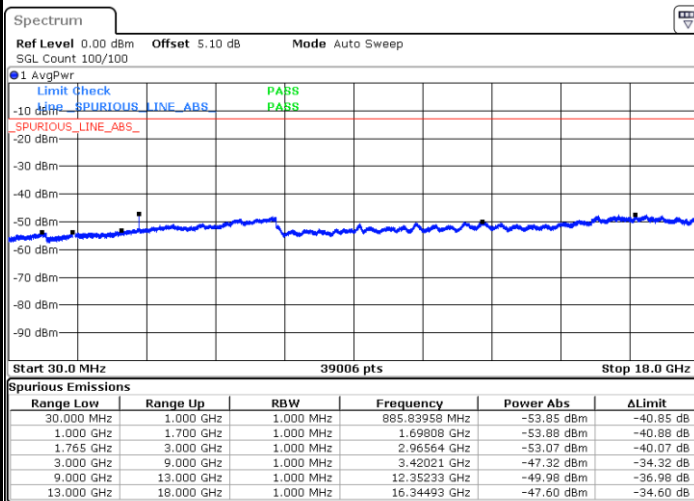
Highest Channel / 16QAM



Date: 4 SEP. 2017 21:04:42

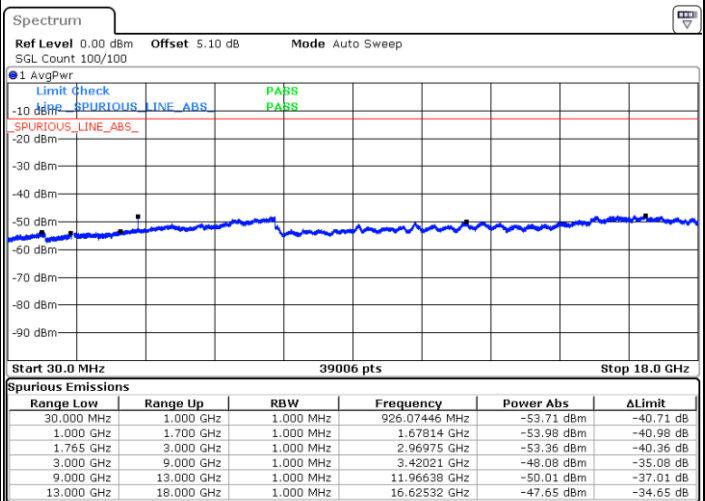
LTE Band 4 / 3MHz

Lowest Channel / QPSK



Date: 4 SEP. 2017 21:06:16

Lowest Channel / 16QAM

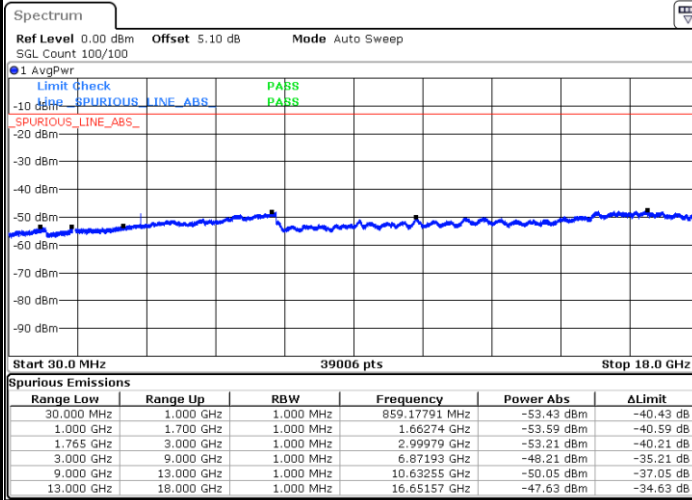


Date: 4 SEP. 2017 21:07:10



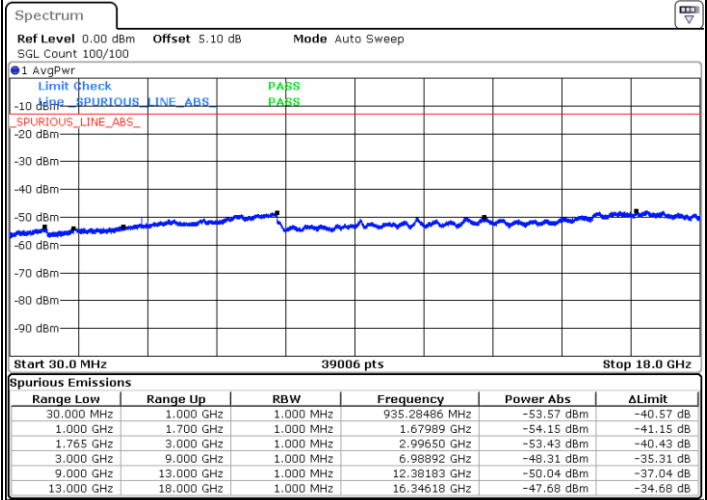
LTE Band 4 / 3MHz

Middle Channel / QPSK



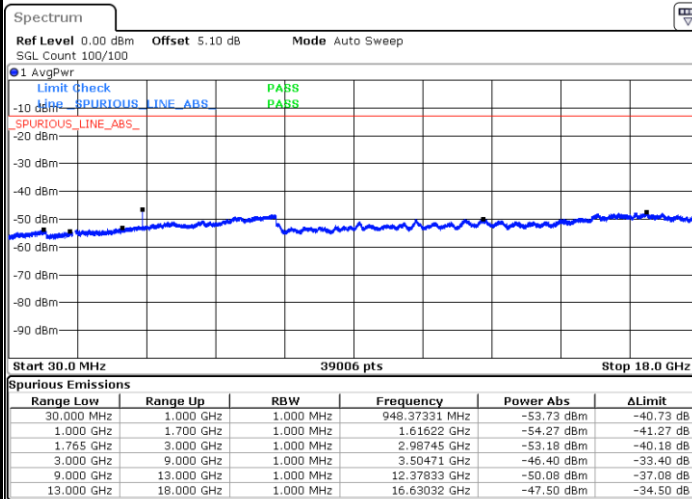
Date: 4 SEP. 2017 21:08:45

Middle Channel / 16QAM



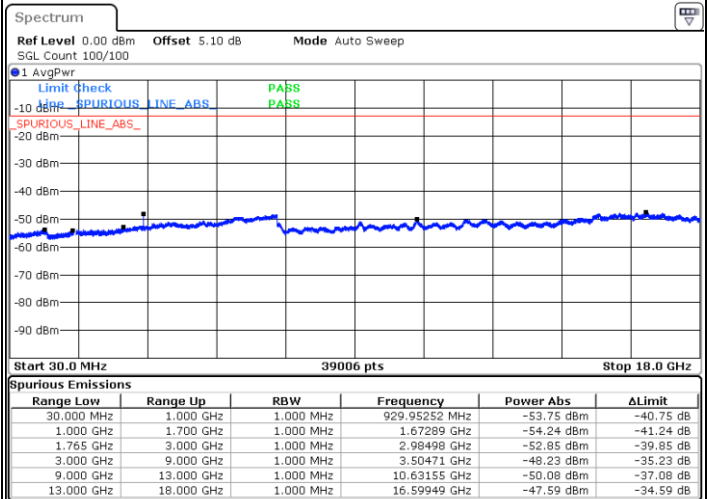
Date: 4 SEP. 2017 21:09:39

Highest Channel / QPSK



Date: 4 SEP. 2017 21:11:13

Highest Channel / 16QAM

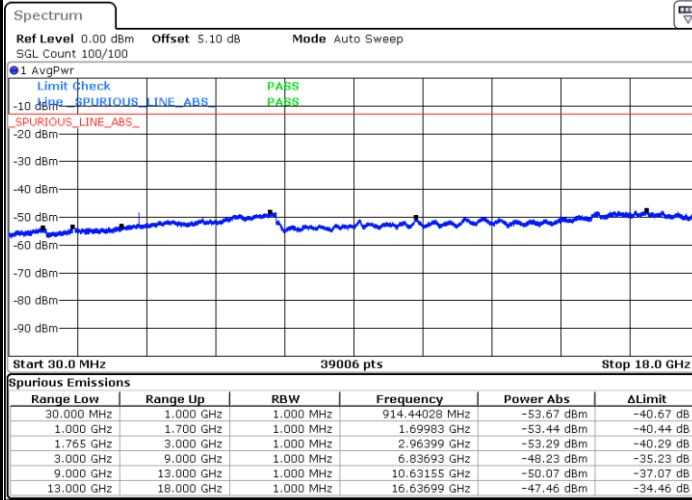


Date: 4 SEP. 2017 21:12:08



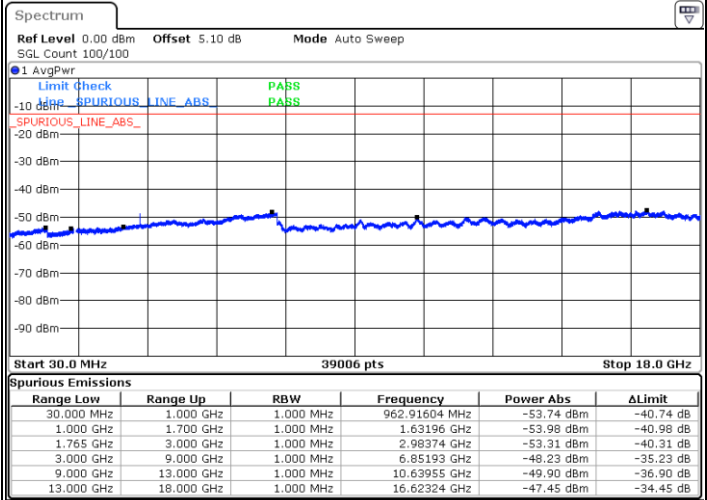
LTE Band 4 / 5MHz

Lowest Channel / QPSK



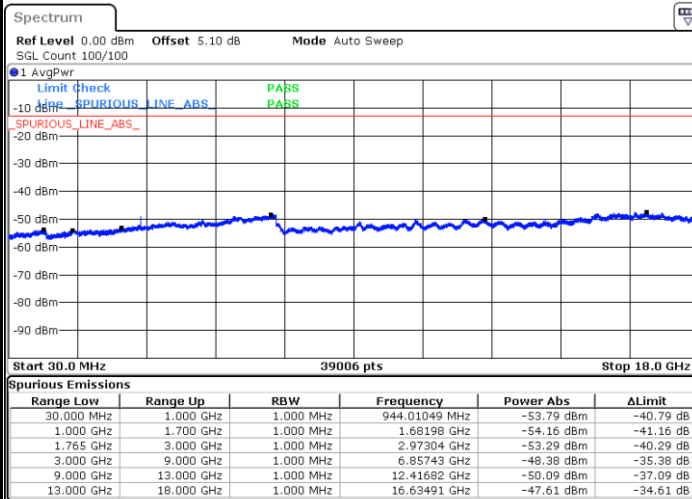
Date: 4 SEP. 2017 21:13:42

Lowest Channel / 16QAM



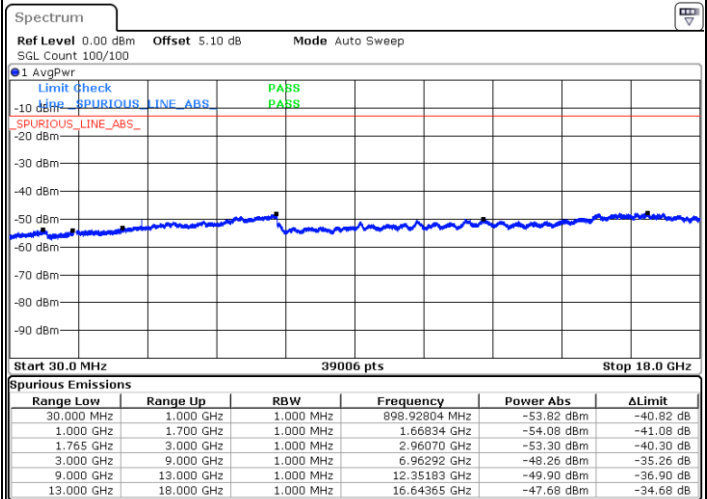
Date: 4 SEP. 2017 21:14:37

Middle Channel / QPSK



Date: 4 SEP. 2017 21:16:11

Middle Channel / 16QAM

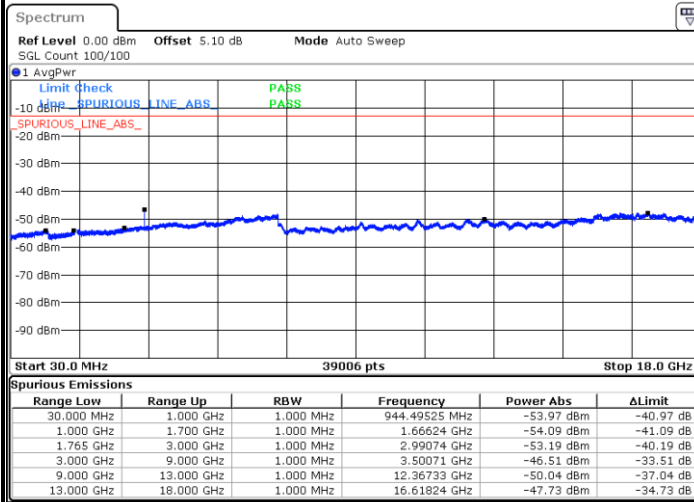


Date: 4 SEP. 2017 21:17:06



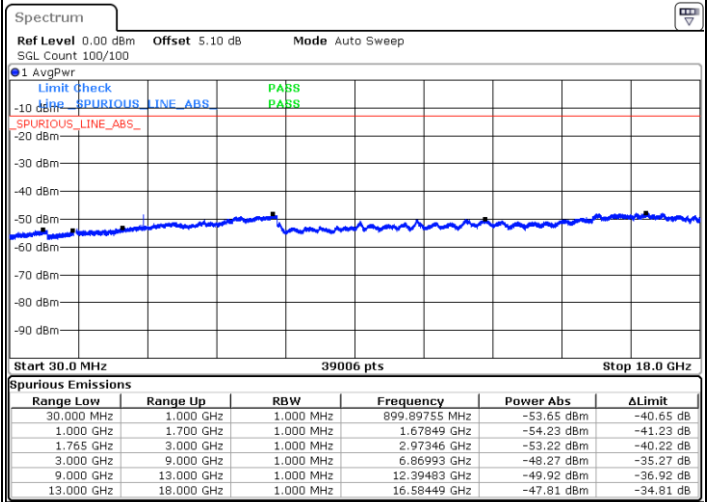
LTE Band 4 / 5MHz

Highest Channel / QPSK



Date: 4 SEP. 2017 21:18:40

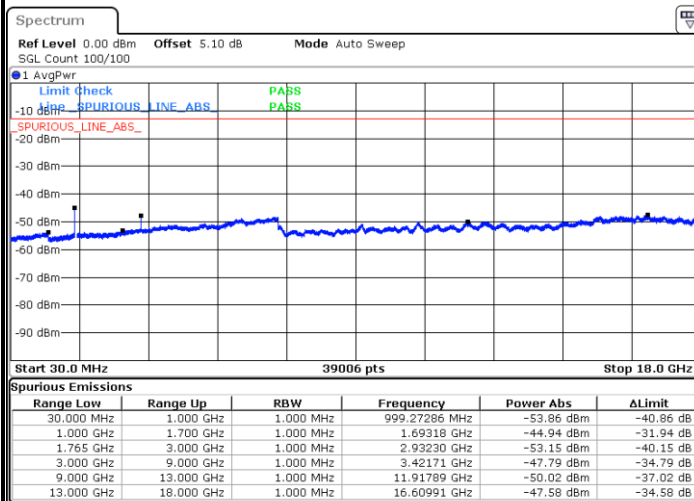
Highest Channel / 16QAM



Date: 4 SEP. 2017 21:19:35

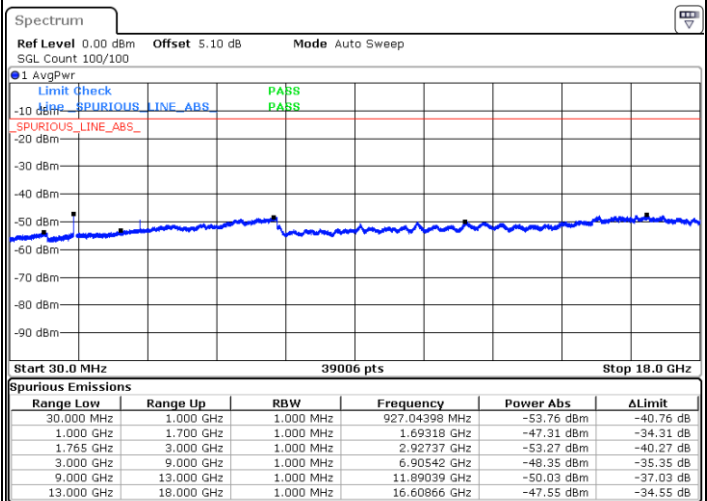
LTE Band 4 / 10MHz

Lowest Channel / QPSK



Date: 4 SEP. 2017 21:21:09

Lowest Channel / 16QAM

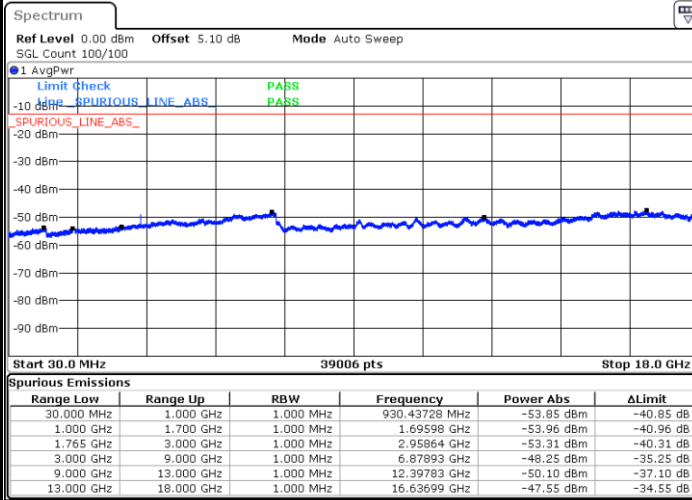


Date: 4 SEP. 2017 21:22:04



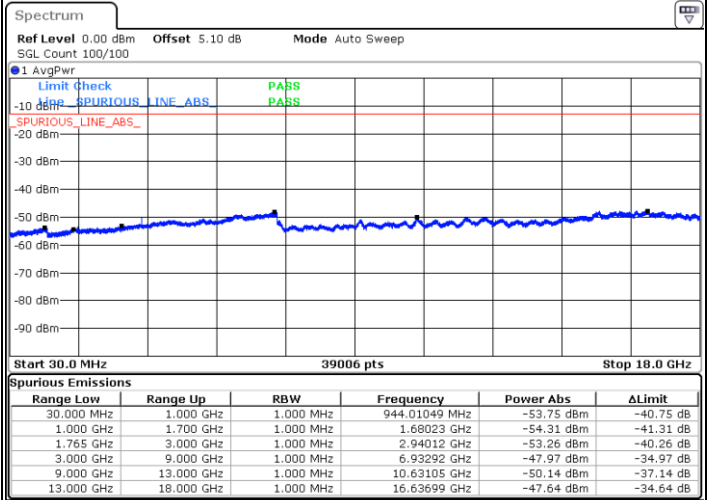
LTE Band 4 / 10MHz

Middle Channel / QPSK



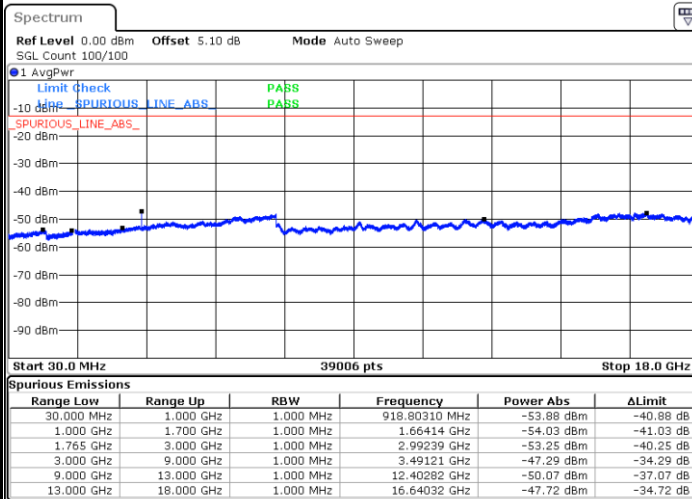
Date: 4 SEP. 2017 21:23:38

Middle Channel / 16QAM



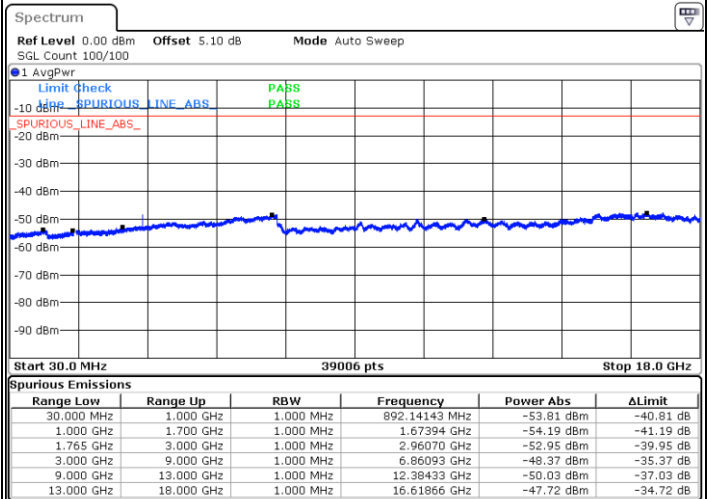
Date: 4 SEP. 2017 21:24:33

Highest Channel / QPSK



Date: 4 SEP. 2017 21:26:07

Highest Channel / 16QAM

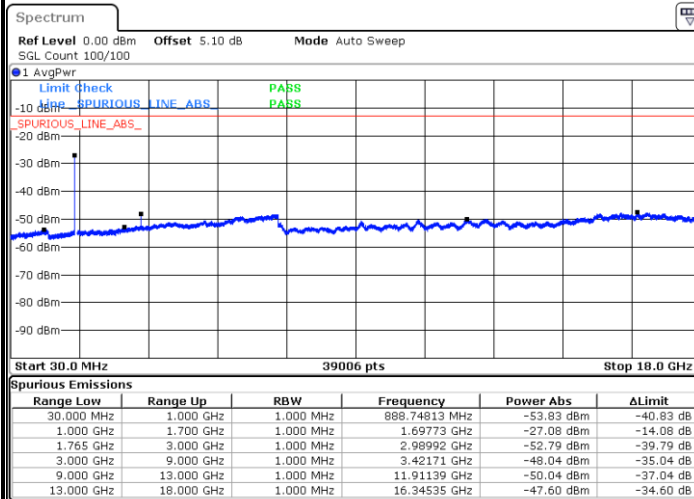


Date: 4 SEP. 2017 21:27:02



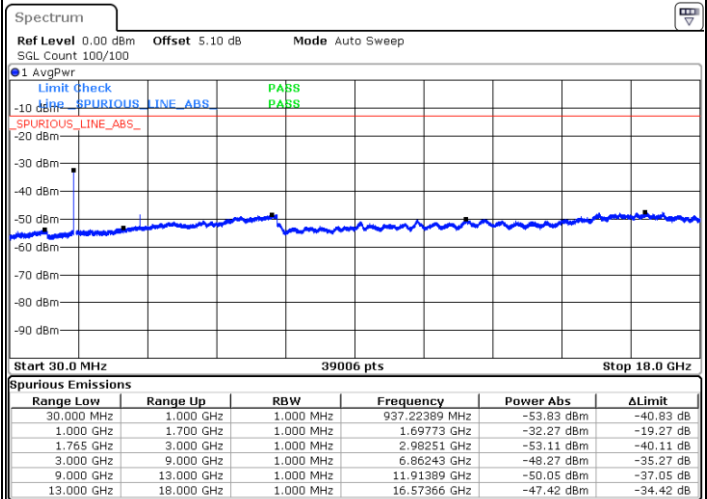
LTE Band 4 / 15MHz

Lowest Channel / QPSK



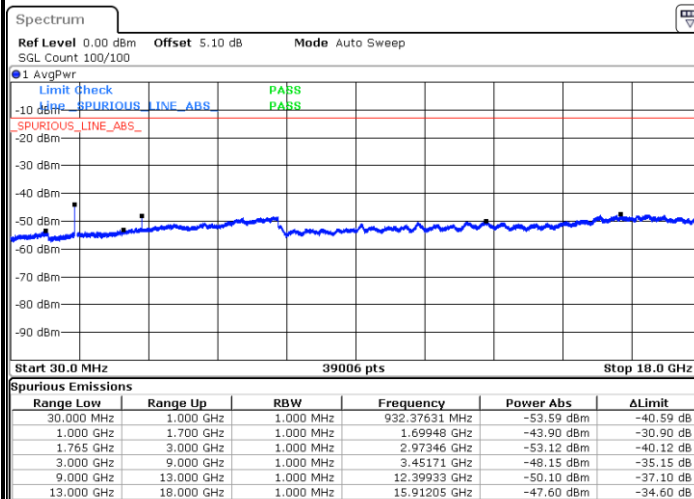
Date: 4 SEP. 2017 21:28:36

Lowest Channel / 16QAM



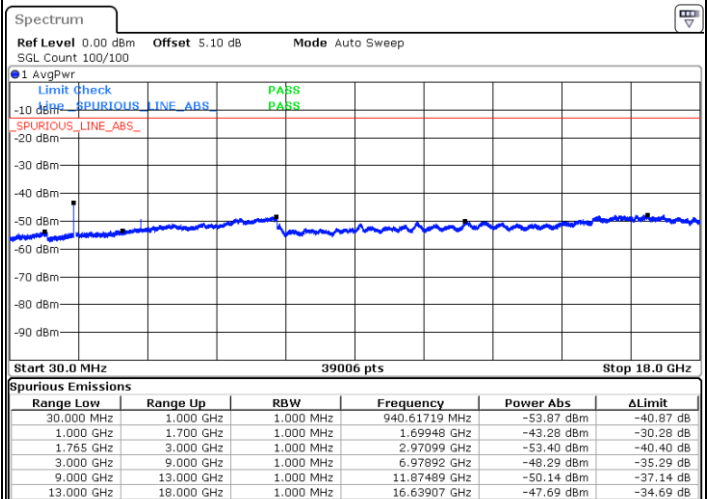
Date: 4 SEP. 2017 21:29:31

Middle Channel / QPSK



Date: 4 SEP. 2017 21:31:05

Middle Channel / 16QAM

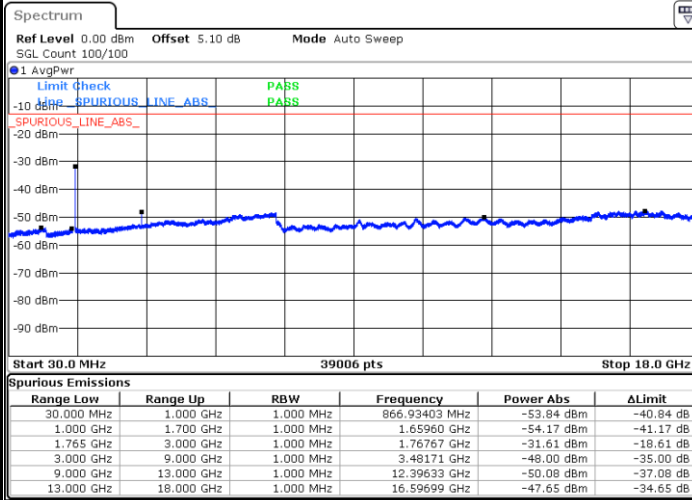


Date: 4 SEP. 2017 21:31:59



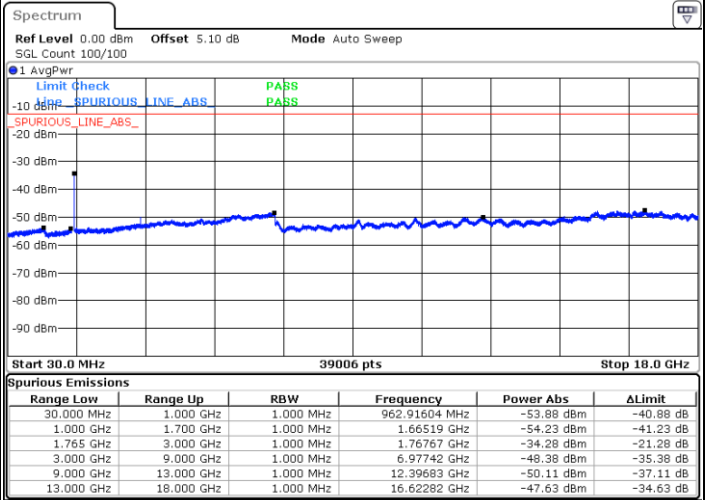
LTE Band 4 / 15MHz

Highest Channel / QPSK



Date: 4 SEP. 2017 21:33:34

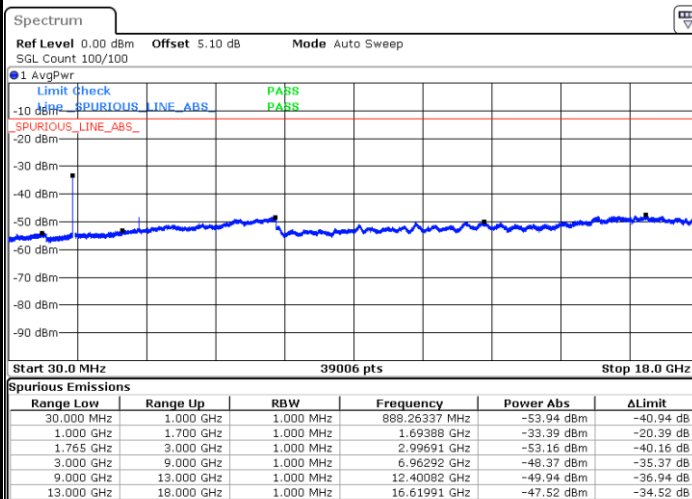
Highest Channel / 16QAM



Date: 4 SEP. 2017 21:34:28

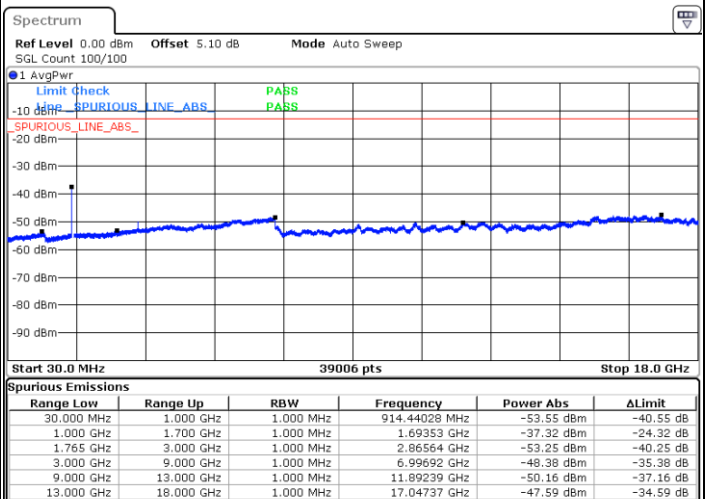
LTE Band 4 / 20MHz

Lowest Channel / QPSK



Date: 4 SEP. 2017 21:36:03

Lowest Channel / 16QAM

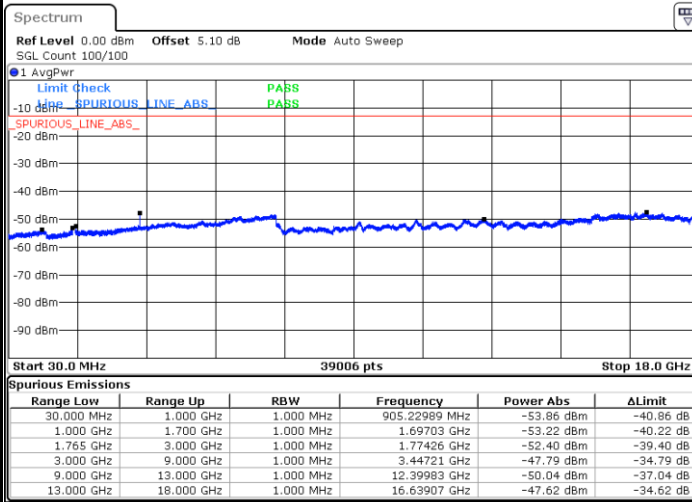


Date: 4 SEP. 2017 21:36:57



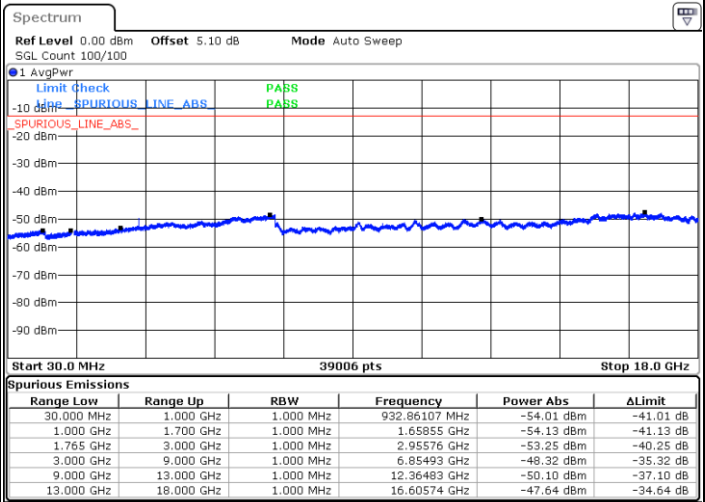
LTE Band 4 / 20MHz

Middle Channel / QPSK



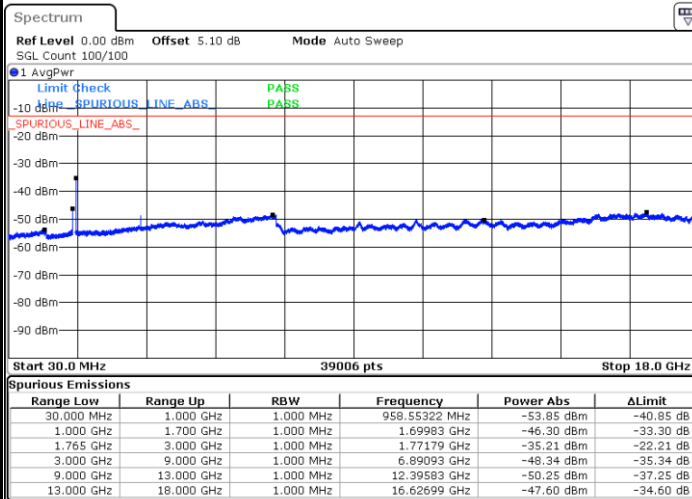
Date: 4 SEP. 2017 21:38:32

Middle Channel / 16QAM



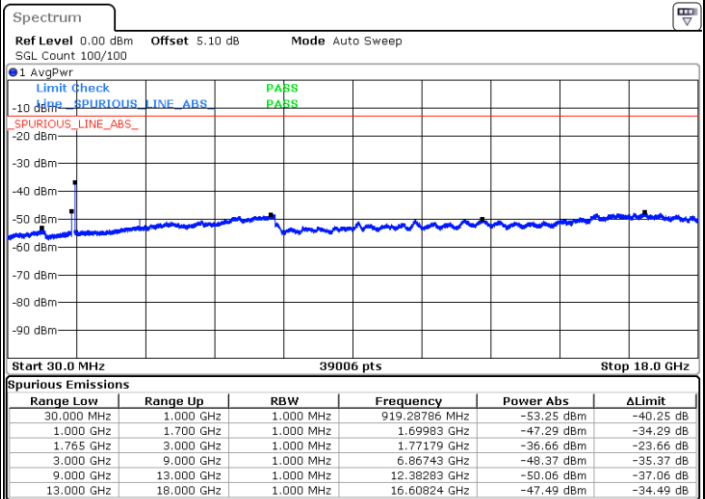
Date: 4 SEP. 2017 21:39:26

Highest Channel / QPSK



Date: 4 SEP. 2017 21:41:01

Highest Channel / 16QAM

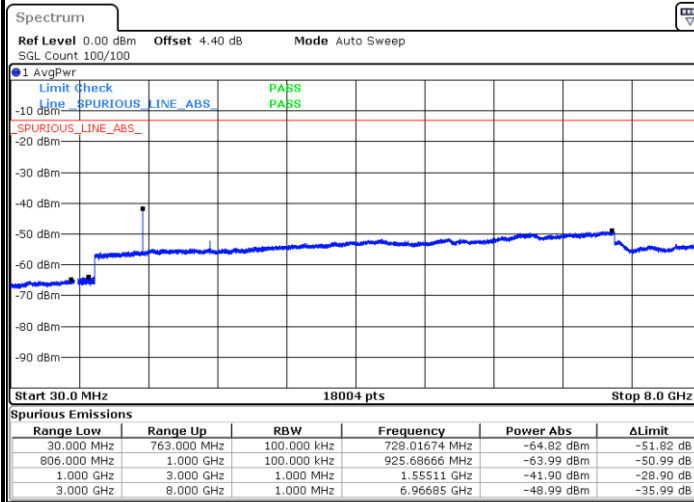


Date: 4 SEP. 2017 21:41:55



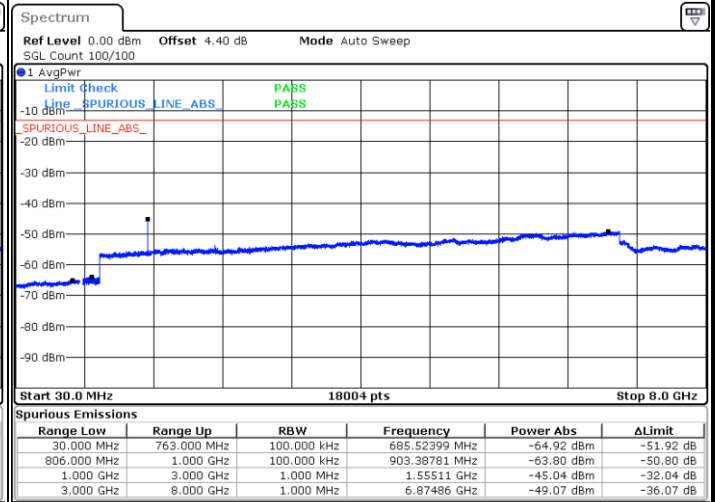
LTE Band 13 / 5MHz

Lowest Channel / QPSK



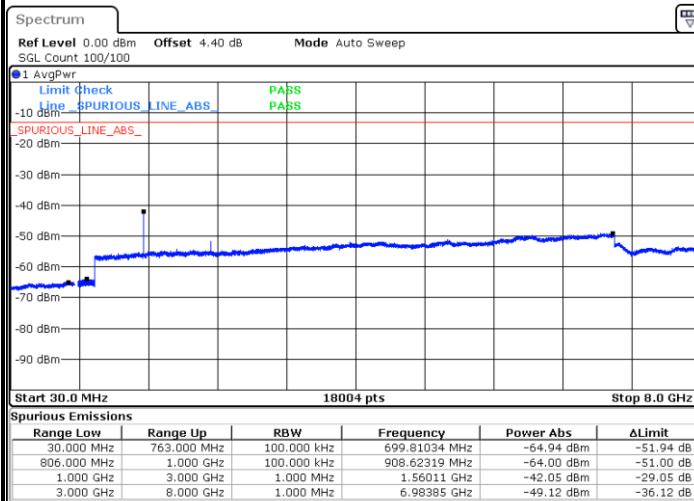
Date: 4 SEP. 2017 16:15:09

Lowest Channel / 16QAM



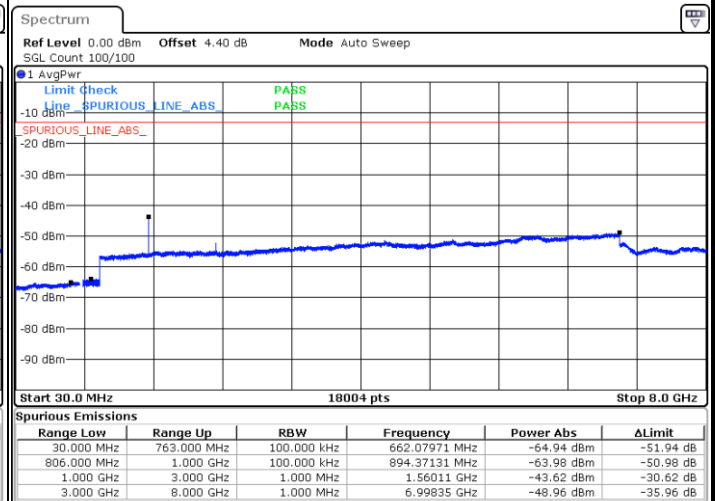
Date: 4 SEP. 2017 16:14:15

Middle Channel / QPSK



Date: 4 SEP. 2017 16:16:43

Middle Channel / 16QAM

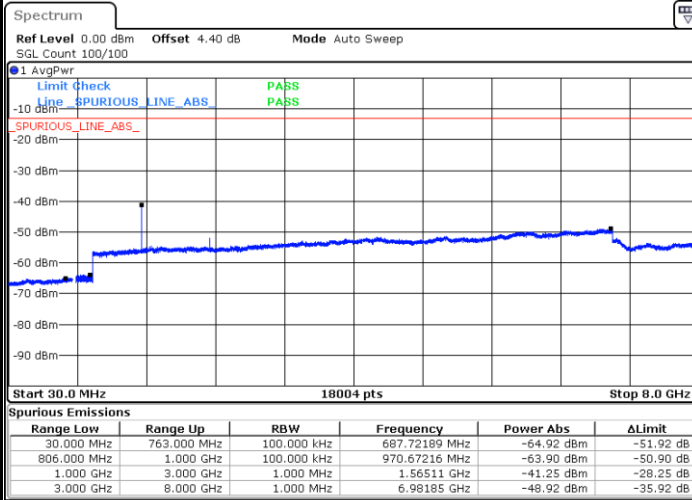


Date: 4 SEP. 2017 16:17:37



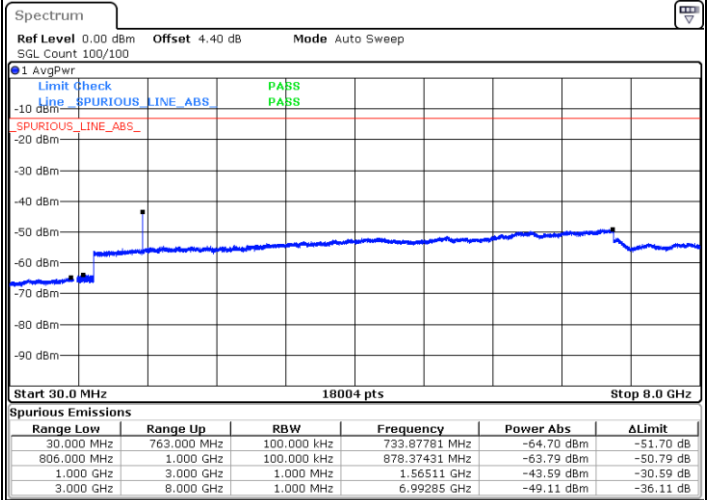
LTE Band 13 / 5MHz

Highest Channel / QPSK



Date: 4 SEP. 2017 16:26:36

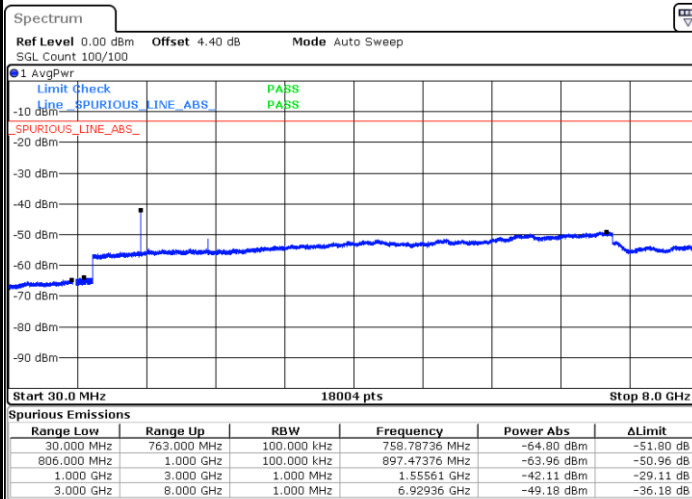
Highest Channel / 16QAM



Date: 4 SEP. 2017 16:25:41

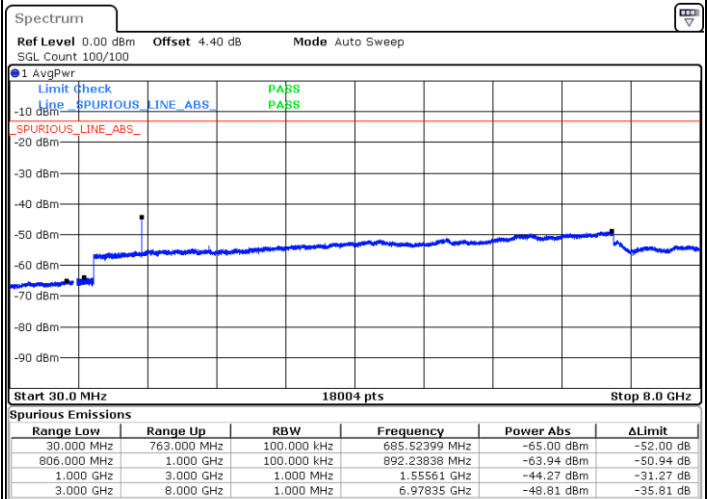
LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 4 SEP. 2017 16:27:30

Middle Channel / 16QAM



Date: 4 SEP. 2017 16:28:24

Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0013	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0014	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0011	
0	Normal Voltage	0.0009	
-10	Normal Voltage	0.0007	
-20	Normal Voltage	0.0009	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0015	
20	Normal Voltage	0.0009	
20	Battery End Point	0.0006	

Note:

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



Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0003	PASS
40	Normal Voltage	0.0043	
30	Normal Voltage	0.0034	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0003	
0	Normal Voltage	0.0030	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0028	
-30	Normal Voltage	0.0001	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0026	
20	Battery End Point	0.0009	

Note:

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



Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0013	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0019	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0063	
0	Normal Voltage	0.0049	
-10	Normal Voltage	0.0052	
-20	Normal Voltage	0.0022	
-30	Normal Voltage	0.0012	
20	Maximum Voltage	0.0041	
20	Normal Voltage	0.0006	
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. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

LTE Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0									
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	3759	-58.09	-13	-45.09	-65.47	-63.08	1.88	6.87	H
	5637	-61.06	-13	-48.06	-73.23	-68.36	2.38	9.68	H
	7518	-57.09	-13	-44.09	-74.32	-66.16	2.74	11.81	H
	3759	-58.55	-13	-45.55	-67.4	-63.54	1.88	6.87	V
	5637	-59.12	-13	-46.12	-73.29	-66.42	2.38	9.68	V
	7518	-53.84	-13	-40.84	-74.94	-62.91	2.74	11.81	V

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

LTE Band 2 / 3MHz / QPSK / RB Size 1 Offset 0									
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	3756	-53.30	-13	-40.30	-60.68	-58.29	1.88	6.87	H
	5636	-62.23	-13	-49.23	-74.40	-69.53	2.38	9.68	H
	7515	-57.13	-13	-44.13	-74.36	-66.20	2.74	11.81	H
	3756	-55.22	-13	-42.22	-64.07	-60.21	1.88	6.87	V
	5636	-60.42	-13	-47.42	-74.59	-67.72	2.38	9.68	V
	7515	-53.38	-13	-40.38	-74.48	-62.45	2.74	11.81	V

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



LTE Band 2 / 5MHz / QPSK/ RB Size 1 Offset 0									
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	3756	-54.03	-13	-41.03	-61.41	-59.02	1.88	6.87	H
	5633	-62.14	-13	-49.14	-74.31	-69.44	2.38	9.68	H
	7512	-58.14	-13	-45.14	-75.37	-67.21	2.74	11.81	H
	3756	-56.01	-13	-43.01	-64.86	-61.00	1.88	6.87	V
	5633	-60.18	-13	-47.18	-74.35	-67.48	2.38	9.68	V
	7512	-53.54	-13	-40.54	-74.64	-62.61	2.74	11.81	V

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

LTE Band 2 / 10MHz / QPSK / RB Size 1 Offset 0									
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	3750	-54.39	-13	-41.39	-61.77	-59.38	1.88	6.87	H
	5627	-62.05	-13	-49.05	-74.22	-69.35	2.38	9.68	H
	7503	-57.81	-13	-44.81	-75.04	-66.88	2.74	11.81	H
	3750	-54.46	-13	-41.46	-63.31	-59.45	1.88	6.87	V
	5627	-60.18	-13	-47.18	-74.35	-67.48	2.38	9.68	V
	7503	-54.27	-13	-41.27	-75.37	-63.34	2.74	11.81	V

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

LTE Band 2 / 15MHz / QPSK / RB Size 1 Offset 0									
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	3747	-53.17	-13	-40.17	-60.55	-58.16	1.88	6.87	H
	5620	-61.82	-13	-48.82	-73.99	-69.12	2.38	9.68	H
	7494	-57.50	-13	-44.50	-74.73	-66.57	2.74	11.81	H
	3747	-56.03	-13	-43.03	-64.88	-61.02	1.88	6.87	V
	5620	-58.88	-13	-45.88	-73.05	-66.18	2.38	9.68	V
	7494	-53.53	-13	-40.53	-74.63	-62.60	2.74	11.81	V

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



LTE Band 2 / 20MHz / QPSK / RB Size 1 Offset 0									
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	3741	-56.36	-13	-43.36	-63.74	-61.35	1.88	6.87	H
	5613	-61.70	-13	-48.70	-73.87	-69.00	2.38	9.68	H
	7485	-57.60	-13	-44.60	-74.83	-66.67	2.74	11.81	H
	3741	-55.00	-13	-42.00	-63.85	-59.99	1.88	6.87	V
	5613	-59.93	-13	-46.93	-74.1	-67.23	2.38	9.68	V
	7485	-53.73	-13	-40.73	-74.83	-62.80	2.74	11.81	V

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

LTE Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0									
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	3465	-62.05	-13	-49.05	-70.33	-67.19	1.81	6.95	H
	5196	-59.05	-13	-46.05	-73.61	-66.12	2.23	9.30	H
	6927	-55.55	-13	-42.55	-74.90	-63.83	2.60	10.88	H
	3465	-64.84	-13	-51.84	-70.64	-69.98	1.81	6.95	V
	5196	-59.59	-13	-46.59	-73.89	-66.66	2.23	9.30	V
	6927	-55.47	-13	-42.47	-74.01	-63.75	2.6	10.88	V

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

LTE Band 4 / 3MHz / QPSK / RB Size 1 Offset 0									
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	3462	-62.76	-13	-49.76	-71.04	-67.90	1.81	6.95	H
	5194	-59.53	-13	-46.53	-74.09	-66.60	2.23	9.30	H
	6924	-55.78	-13	-42.78	-75.13	-64.06	2.60	10.88	H
	3462	-66.46	-13	-53.46	-72.26	-71.60	1.81	6.95	V
	5194	-60.04	-13	-47.04	-74.34	-67.11	2.23	9.30	V
	6924	-56.68	-13	-43.68	-75.22	-64.96	2.6	10.88	V

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



LTE Band 4 / 5MHz / QPSK/ RB Size 1 Offset 0									
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	3462	-62.52	-13	-49.52	-70.80	-67.66	1.81	6.95	H
	5191	-59.38	-13	-46.38	-73.94	-66.45	2.23	9.30	H
	6921	-56.67	-13	-43.67	-76.02	-64.95	2.60	10.88	H
	3462	-66.33	-13	-53.33	-72.13	-71.47	1.81	6.95	V
	5191	-59.56	-13	-46.56	-73.86	-66.63	2.23	9.30	V
	6921	-56.72	-13	-43.72	-75.26	-65.00	2.6	10.88	V

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

LTE Band 4 / 10MHz / QPSK / RB Size 1 Offset 0									
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	3456	-62.67	-13	-49.67	-70.95	-67.81	1.81	6.95	H
	5184	-60.17	-13	-47.17	-74.73	-67.24	2.23	9.30	H
	6912	-56.15	-13	-43.15	-75.50	-64.43	2.60	10.88	H
	3456	-66.13	-13	-53.13	-71.93	-71.27	1.81	6.95	V
	5184	-60.44	-13	-47.44	-74.74	-67.51	2.23	9.30	V
	6912	-56.95	-13	-43.95	-75.49	-65.23	2.6	10.88	V

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

LTE Band 4 / 15MHz / QPSK / RB Size 1 Offset 0									
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	3453	-63.81	-13	-50.81	-72.09	-68.95	1.81	6.95	H
	5177	-59.31	-13	-46.31	-73.87	-66.38	2.23	9.30	H
	6903	-55.44	-13	-42.44	-74.79	-63.72	2.60	10.88	H
	3453	-65.40	-13	-52.40	-71.2	-70.54	1.81	6.95	V
	5177	-59.31	-13	-46.31	-73.61	-66.38	2.23	9.30	V
	6903	-56.62	-13	-43.62	-75.16	-64.90	2.6	10.88	V

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



LTE Band 4 / 20MHz / QPSK / RB Size 1 Offset 0									
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	3447	-62.31	-13	-49.31	-70.59	-67.45	1.81	6.95	H
	5171	-58.47	-13	-45.47	-73.03	-65.54	2.23	9.30	H
	6894	-55.30	-13	-42.30	-74.65	-63.58	2.60	10.88	H
	3447	-65.50	-13	-52.50	-71.3	-70.64	1.81	6.95	V
	5171	-59.54	-13	-46.54	-73.84	-66.61	2.23	9.30	V
	6894	-56.39	-13	-43.39	-74.93	-64.67	2.6	10.88	V

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

LTE Band 13 / 5MHz / QPSK / RB Size 1 Offset 0									
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	1560	-61.84	-40	-21.84	-58.95	-65.68	1.385	5.23	H
	2338	-60.84	-13	-47.84	-65.58	-62.83	1.88	6.02	H
	3120	-67.60	-13	-54.60	-70.06	-69.97	2.38	6.90	H
	1560	-58.33	-40	-18.33	-59.35	-62.17	1.385	5.23	V
	2338	-57.73	-13	-44.73	-65.45	-59.72	1.88	6.02	V
	3120	-61.42	-13	-48.42	-70.66	-63.79	2.38	6.90	V

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

LTE Band 13 / 10MHz / QPSK / RB Size 1 Offset 0									
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	1554	-60.71	-13	-47.71	-57.82	-62.40	1.385	5.23	H
	2332	-58.30	-13	-45.30	-63.04	-60.29	1.88	6.02	H
	3111	-68.43	-13	-55.43	-70.89	-70.80	2.38	6.90	H
	1554	-55.87	-13	-42.87	-57.6	-57.56	1.385	5.23	V
	2332	-54.46	-13	-41.46	-62.34	-56.45	1.88	6.02	V
	3111	-62.04	-13	-49.04	-71.28	-64.41	2.38	6.90	V

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