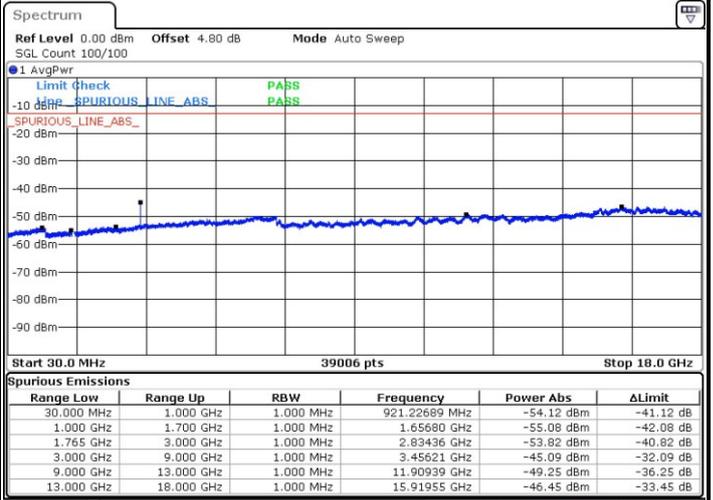
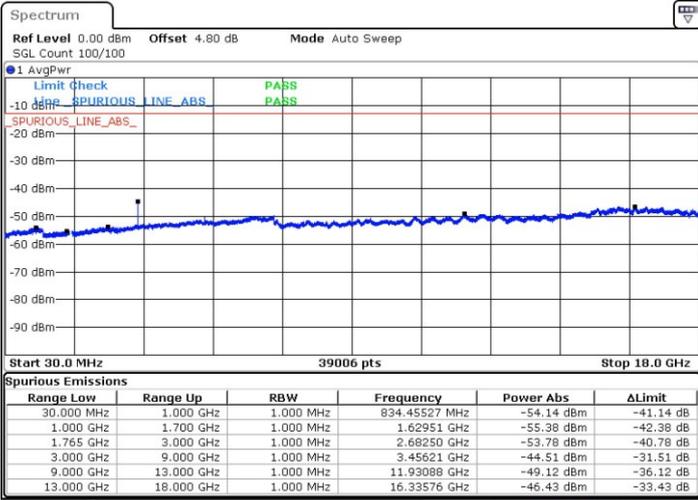




LTE Band 4 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

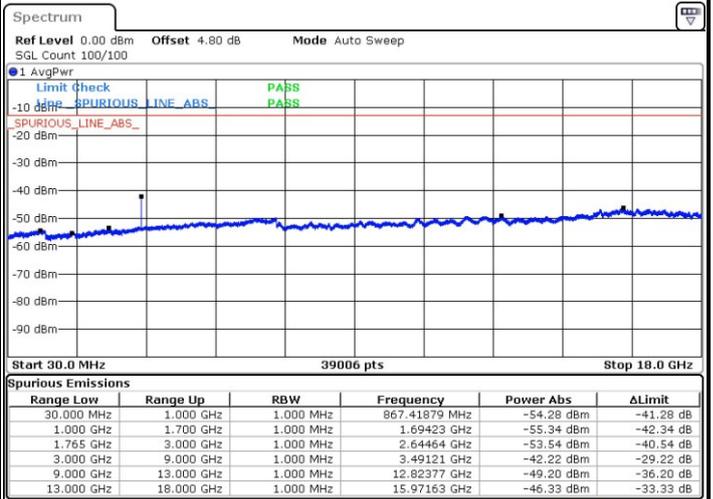
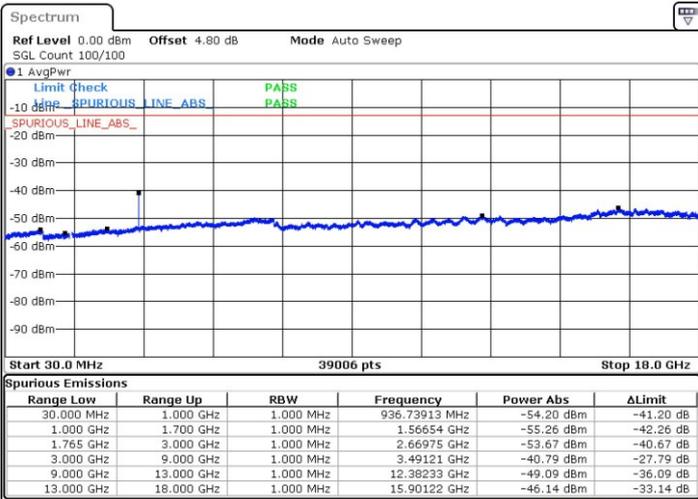


Date: 14.NOV.2016 10:16:16

Date: 14.NOV.2016 10:17:12

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 14.NOV.2016 10:23:21

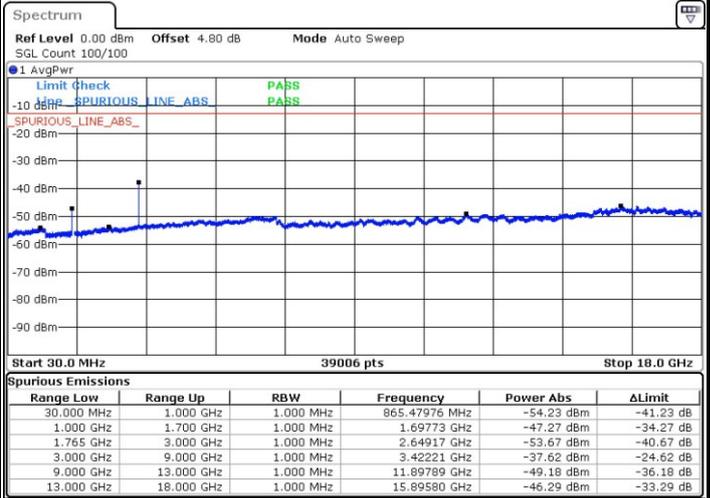
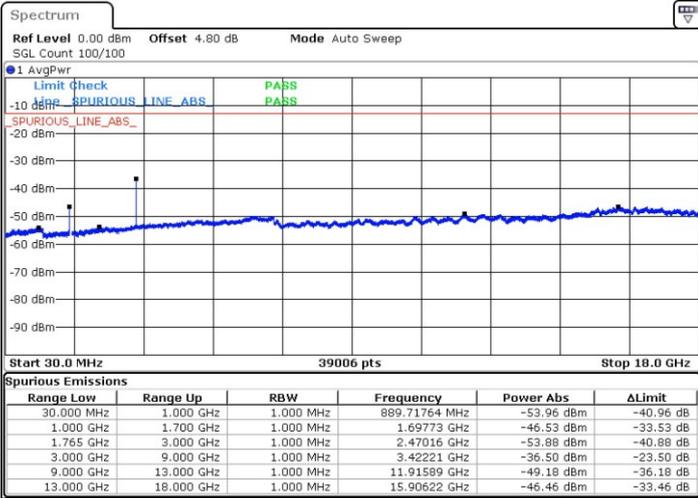
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LTE Band 4 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

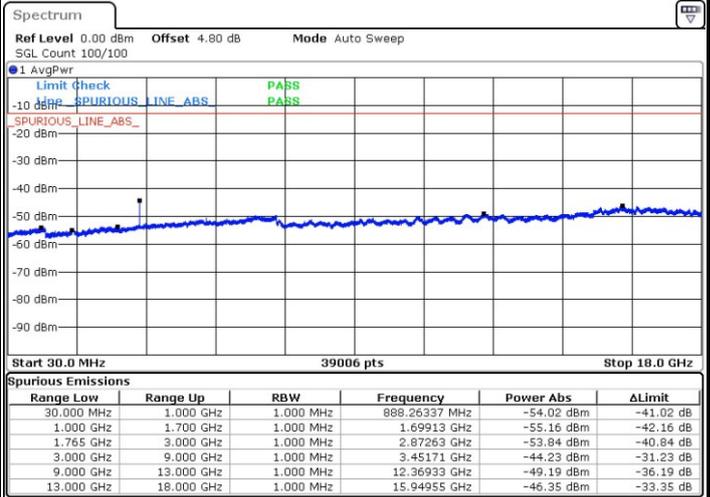
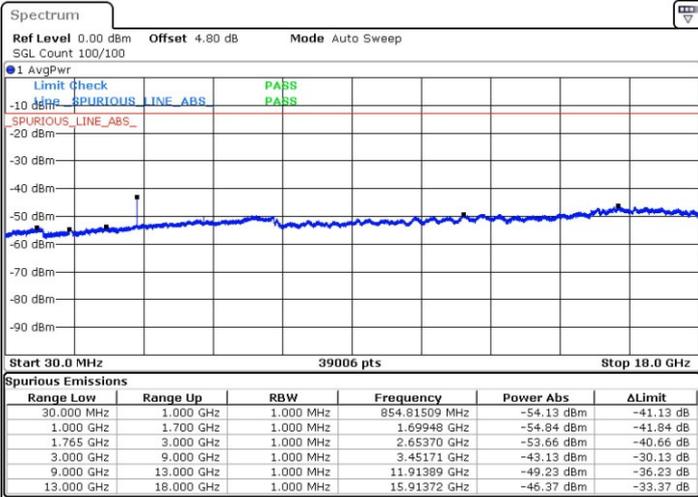


Date: 14.NOV.2016 10:30:27

Date: 14.NOV.2016 10:31:23

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 14.NOV.2016 10:33:00

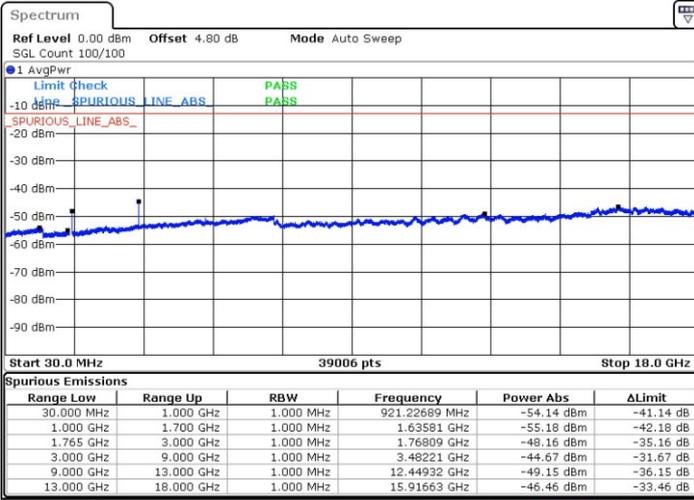
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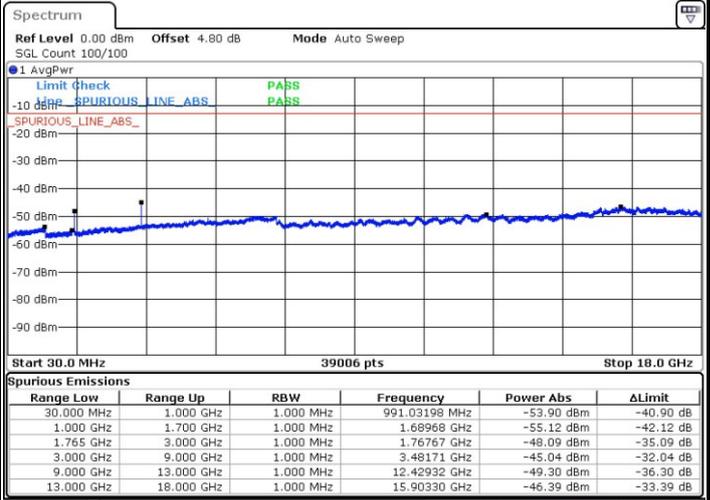
LTE Band 4 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 14.NOV.2016 10:40:06

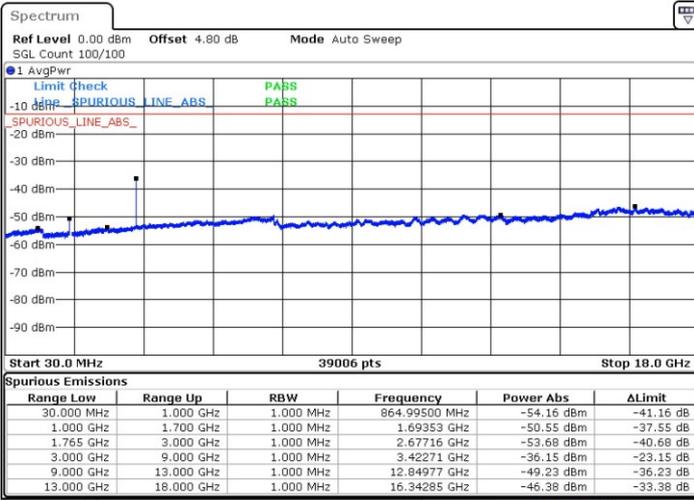


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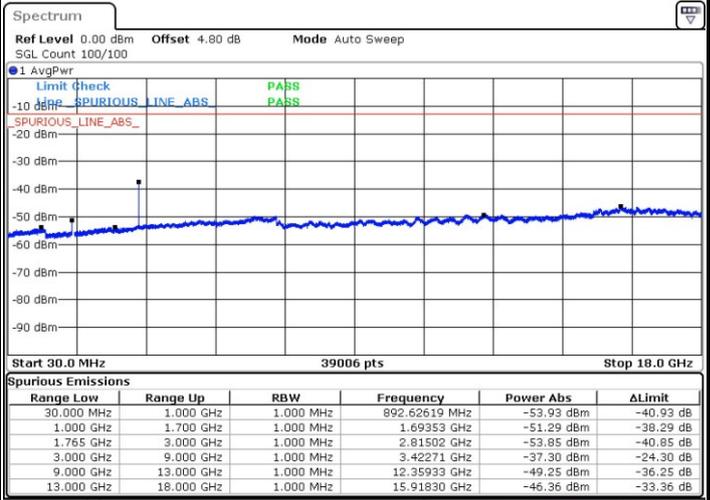
LTE Band 4 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 14.NOV.2016 10:47:11



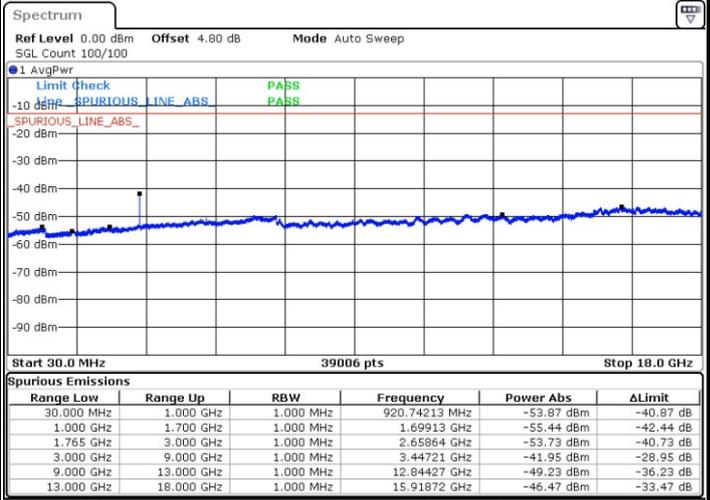
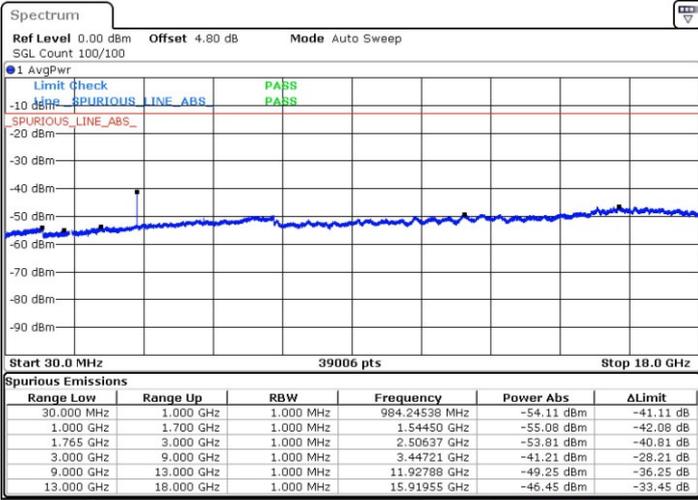
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LTE Band 4 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

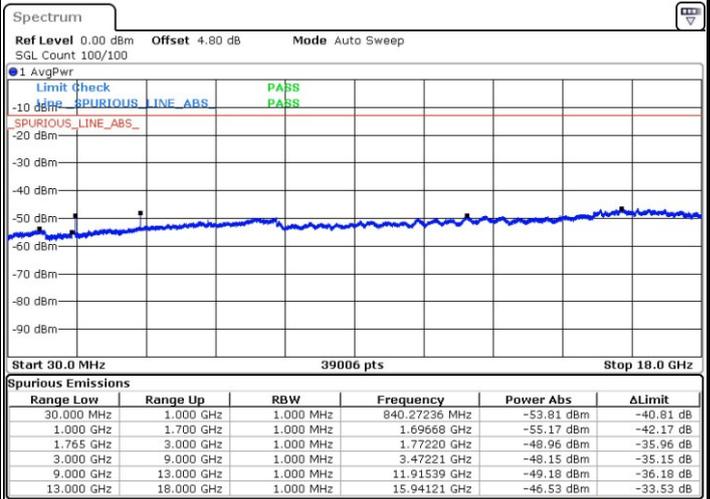
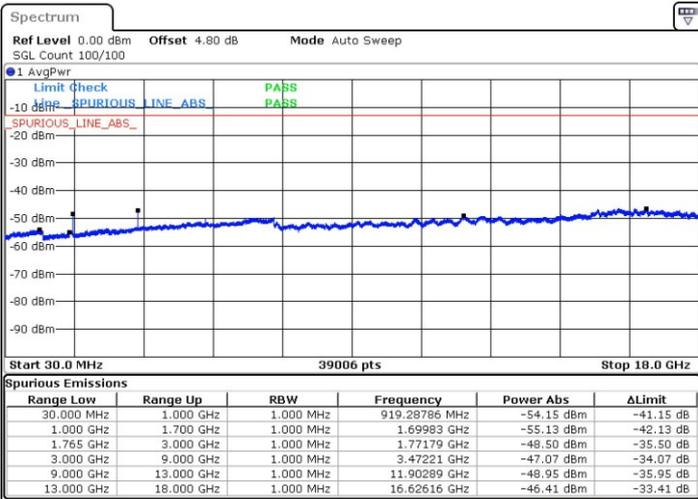


Date: 14.NOV.2016 10:49:44

Date: 14.NOV.2016 10:50:40

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 14.NOV.2016 10:56:50

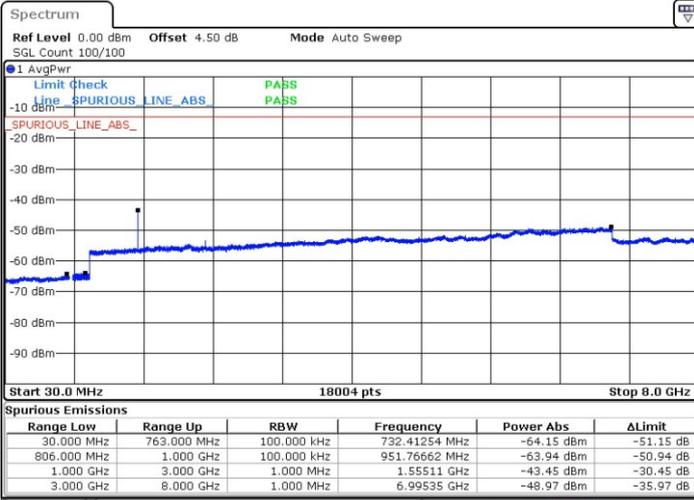
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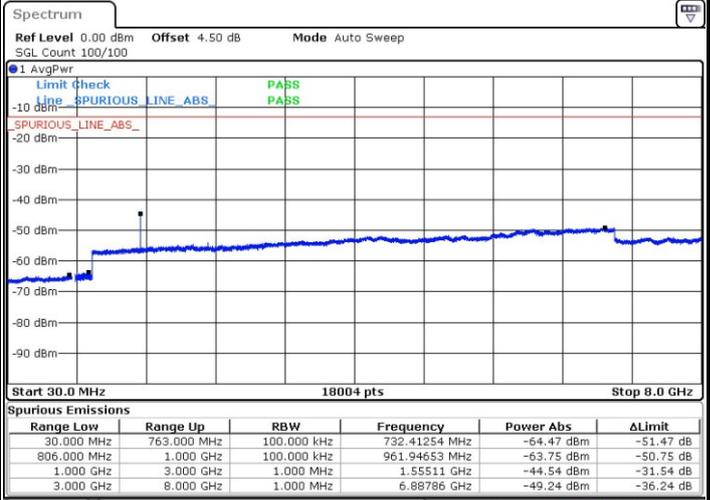
LTE Band 13 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



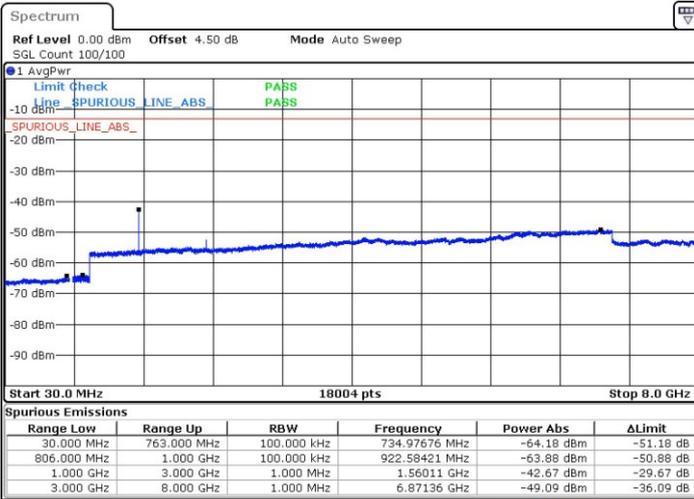
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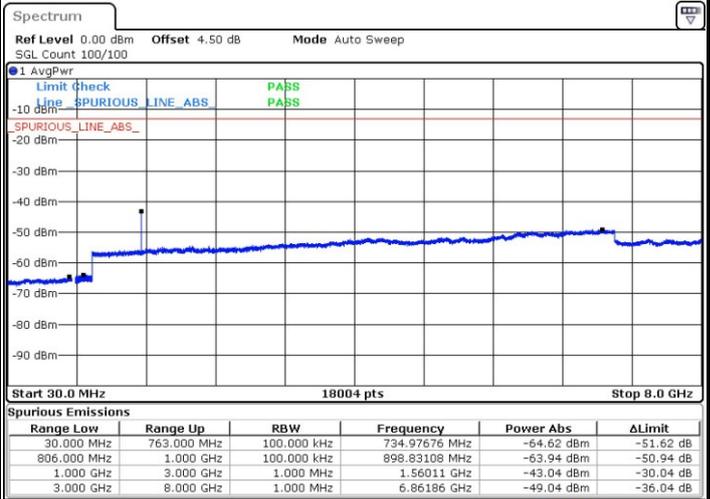
Date: 13.NOV.2016 21:06:04

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 13.NOV.2016 21:08:35

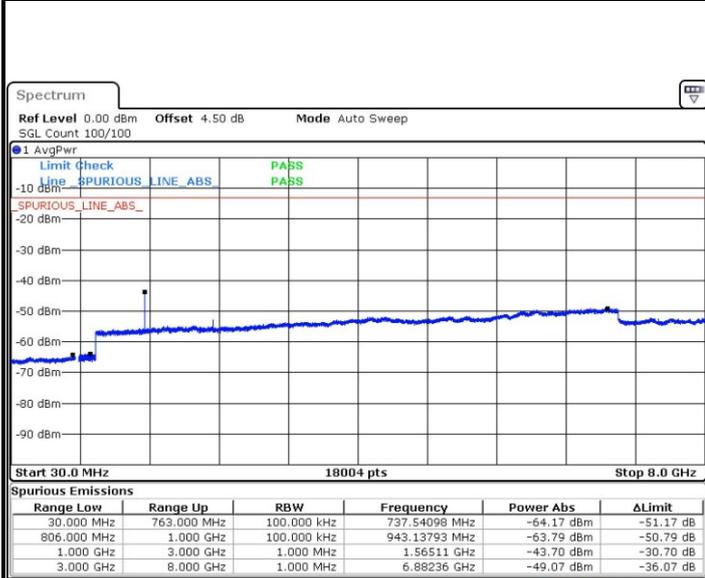


Date: 13.NOV.2016 21:09:30



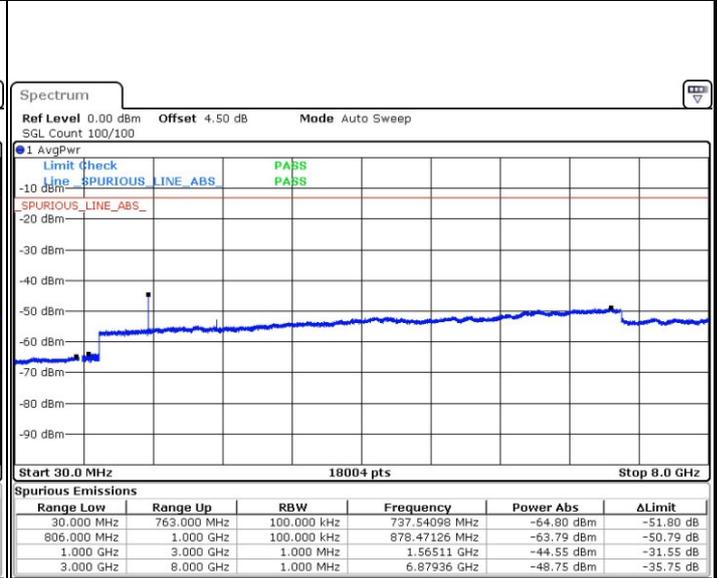
LTE Band 13 / 5MHz

Highest Channel / QPSK



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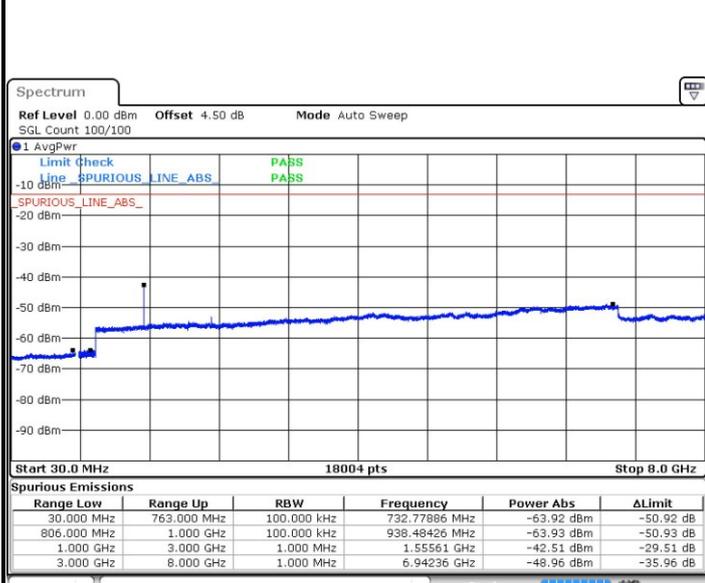
Highest Channel / 16QAM



Date: 13.NOV.2016 21:17:39

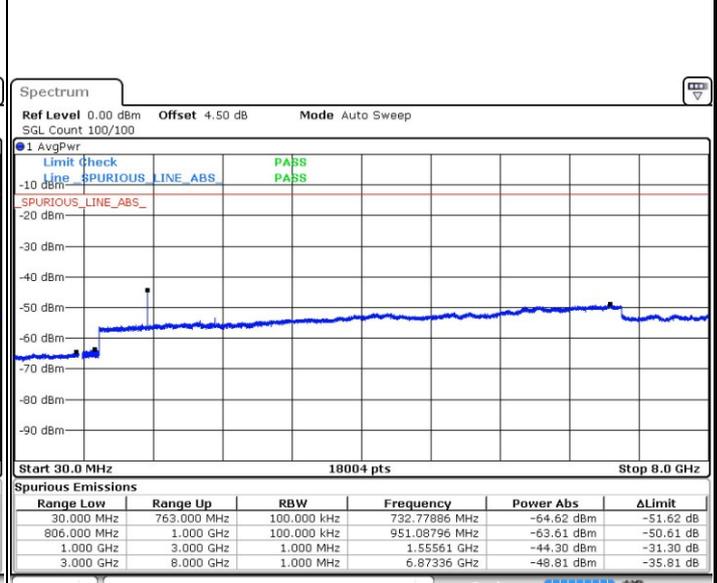
LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 13.NOV.2016 21:19:29

Middle Channel / 16QAM



Date: 13.NOV.2016 21:20:23



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	0.0004	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0039	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0043	
0	Normal Voltage	0.0003	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0014	
-30	Normal Voltage	0.0043	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0012	
20	Battery End Point	0.0034	

Note:

1. Normal Voltage =3.7 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.2 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	0.0010	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0055	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0014	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0050	
-20	Normal Voltage	0.0031	
-30	Normal Voltage	0.0012	
20	Maximum Voltage	0.0053	
20	Normal Voltage	0.0003	
20	Battery End Point	0.0042	

Note:

1. Normal Voltage =3.7 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.2 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	0.0064	PASS
40	Normal Voltage	0.0051	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0056	
0	Normal Voltage	0.0035	
-10	Normal Voltage	0.0009	
-20	Normal Voltage	0.0041	
-30	Normal Voltage	0.0012	
20	Maximum Voltage	0.0026	
20	Normal Voltage	0.0047	
20	Battery End Point	0.0032	

Note:

1. Normal Voltage =3.7 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.2 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	3756	-64.60	-13	-51.60	-68.11	-69.59	1.88	6.87	H
	5640	-63.98	-13	-50.98	-72.17	-71.28	2.38	9.68	H
	7518	-63.77	-13	-50.77	-75.80	-72.84	2.74	11.81	H
	3756	-65.08	-13	-52.08	-68.87	-70.07	1.88	6.87	V
	5640	-66.03	-13	-53.03	-74.6	-73.33	2.38	9.68	V
	7518	-64.85	-13	-51.85	-75.56	-73.92	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	-65.36	-13	-52.36	-68.87	-70.35	1.88	6.87	H
	5634	-55.63	-13	-42.63	-63.82	-62.93	2.38	9.68	H
	7512	-63.17	-13	-50.17	-75.20	-72.24	2.74	11.81	H
	3756	-66.72	-13	-53.72	-70.51	-71.71	1.88	6.87	V
	5634	-56.94	-13	-43.94	-65.51	-64.24	2.38	9.68	V
	7512	-65.35	-13	-52.35	-76.06	-74.42	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	-65.18	-13	-52.18	-68.69	-70.17	1.88	6.87	H
	5634	-55.49	-13	-42.49	-63.68	-62.79	2.38	9.68	H
	7511.36	-62.96	-13	-49.96	-74.99	-72.03	2.74	11.81	H
	3756	-66.47	-13	-53.47	-70.26	-71.46	1.88	6.87	V
	5634	-57.45	-13	-44.45	-66.02	-64.75	2.38	9.68	V
	7512	-64.20	-13	-51.20	-74.91	-73.27	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	-64.89	-13	-51.89	-68.40	-69.88	1.88	6.87	H
	5628	-55.40	-13	-42.40	-63.59	-62.70	2.38	9.68	H
	7500	-63.23	-13	-50.23	-75.26	-72.30	2.74	11.81	H
	3750	-65.20	-13	-52.20	-68.99	-70.19	1.88	6.87	V
	5628	-55.89	-13	-42.89	-64.46	-63.19	2.38	9.68	V
	7500	-64.43	-13	-51.43	-75.14	-73.50	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	3744	-64.33	-13	-51.33	-67.84	-69.32	1.88	6.87	H
	5622	-56.12	-13	-43.12	-64.31	-63.42	2.38	9.68	H
	7494	-63.64	-13	-50.64	-75.67	-72.71	2.74	11.81	H
	3744	-65.16	-13	-52.16	-68.95	-70.15	1.88	6.87	V
	5622	-56.08	-13	-43.08	-64.65	-63.38	2.38	9.68	V
	7494	-64.86	-13	-51.86	-75.57	-73.93	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	3744	-62.91	-13	-49.91	-66.42	-67.90	1.88	6.87	H
	5610	-60.22	-13	-47.22	-68.41	-67.52	2.38	9.68	H
	7482	-63.11	-13	-50.11	-75.14	-72.18	2.74	11.81	H
	3744	-64.10	-13	-51.10	-67.89	-69.09	1.88	6.87	V
	5610	-58.93	-13	-45.93	-67.5	-66.23	2.38	9.68	V
	7482	-65.15	-13	-52.15	-75.86	-74.22	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	-61.19	-13	-48.19	-67.98	-66.08	1.81	6.70	H
	5196	-54.44	-13	-41.44	-67.12	-61.34	2.23	9.13	H
	6930	-60.75	-13	-47.75	-75.93	-68.81	2.60	10.66	H
	3465	-61.27	-13	-48.27	-66.47	-66.16	1.81	6.70	V
	5196	-50.88	-13	-37.88	-64.43	-57.78	2.23	9.13	V
	6930	-61.36	-13	-48.36	-76.41	-69.42	2.6	10.66	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	3465	-60.76	-13	-47.76	-67.55	-65.65	1.81	6.70	H
	5199	-55.86	-13	-42.86	-68.54	-62.76	2.23	9.13	H
	6924	-60.79	-13	-47.79	-75.97	-68.85	2.60	10.66	H
	3462	-66.15	-13	-53.15	-71.35	-71.04	1.81	6.70	V
	5193.45	-58.75	-13	-45.75	-72.3	-65.65	2.23	9.13	V
	6924	-60.99	-13	-47.99	-76.04	-69.05	2.6	10.66	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	3465	-62.15	-13	-49.15	-68.94	-67.04	1.81	6.70	H
	5199	-56.65	-13	-43.65	-69.33	-63.55	2.23	9.13	H
	6924	-60.58	-13	-47.58	-75.76	-68.64	2.60	10.66	H
	3465	-64.06	-13	-51.06	-69.26	-68.95	1.81	6.70	V
	5196	-56.28	-13	-43.28	-69.83	-63.18	2.23	9.13	V
	6924	-61.13	-13	-48.13	-76.18	-69.19	2.6	10.66	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	-57.93	-13	-44.93	-64.72	-62.82	1.81	6.70	H
	5184	-52.51	-13	-39.51	-65.19	-59.41	2.23	9.13	H
	6912	-60.13	-13	-47.13	-75.31	-68.19	2.60	10.66	H
	3456	-60.21	-13	-47.21	-65.41	-65.10	1.81	6.70	V
	5184	-54.50	-13	-41.50	-68.05	-61.40	2.23	9.13	V
	6912	-60.88	-13	-47.88	-75.93	-68.94	2.6	10.66	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	-64.80	-13	-51.80	-71.59	-69.69	1.81	6.70	H
	5177.79	-60.30	-13	-47.30	-72.98	-67.20	2.23	9.13	H
	6906	-52.65	-13	-39.65	-67.83	-60.71	2.60	10.66	H
	3453	-65.68	-13	-52.68	-70.88	-70.57	1.81	6.70	V
	5177.79	-60.11	-13	-47.11	-73.66	-67.01	2.23	9.13	V
	6906	-61.44	-13	-48.44	-76.49	-69.50	2.6	10.66	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	-64.60	-13	-51.60	-71.39	-69.49	1.81	6.70	H
	5170.77	-60.67	-13	-47.67	-73.35	-67.57	2.23	9.13	H
	6894	-60.19	-13	-47.19	-75.37	-68.25	2.60	10.66	H
	3447	-65.55	-13	-52.55	-70.75	-70.44	1.81	6.70	V
	5170.77	-59.15	-13	-46.15	-72.7	-66.05	2.23	9.13	V
	6894	-60.25	-13	-47.25	-75.3	-68.31	2.6	10.66	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	-65.03	-40	-25.03	-63.02	-68.08	1.14	4.19	H
	2338	-44.15	-13	-31.15	-49.93	-45.61	1.4	5.01	H
	3111	-70.41	-13	-57.41	-71.05	-72.94	1.63	6.31	H
	1556	-72.10	-13	-59.10	-66.97	-73.00	1.14	4.19	V
	2338	-58.68	-13	-45.68	-57.39	-60.14	1.4	5.01	V
	3111	-70.65	-13	-57.65	-72.77	-73.18	1.63	6.31	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	-63.78	-13	-50.78	-59.62	-64.68	1.14	4.19	H
	2332	-50.50	-13	-37.50	-54.42	-51.96	1.4	5.01	H
	3111	-70.06	-13	-57.06	-70.70	-72.59	1.63	6.31	H
	1556	-60.59	-13	-47.59	-55.46	-61.49	1.14	4.19	V
	2334	-59.09	-13	-46.09	-57.51	-60.55	1.4	5.01	V
	3111	-69.55	-13	-56.55	-71.67	-72.08	1.63	6.31	V

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