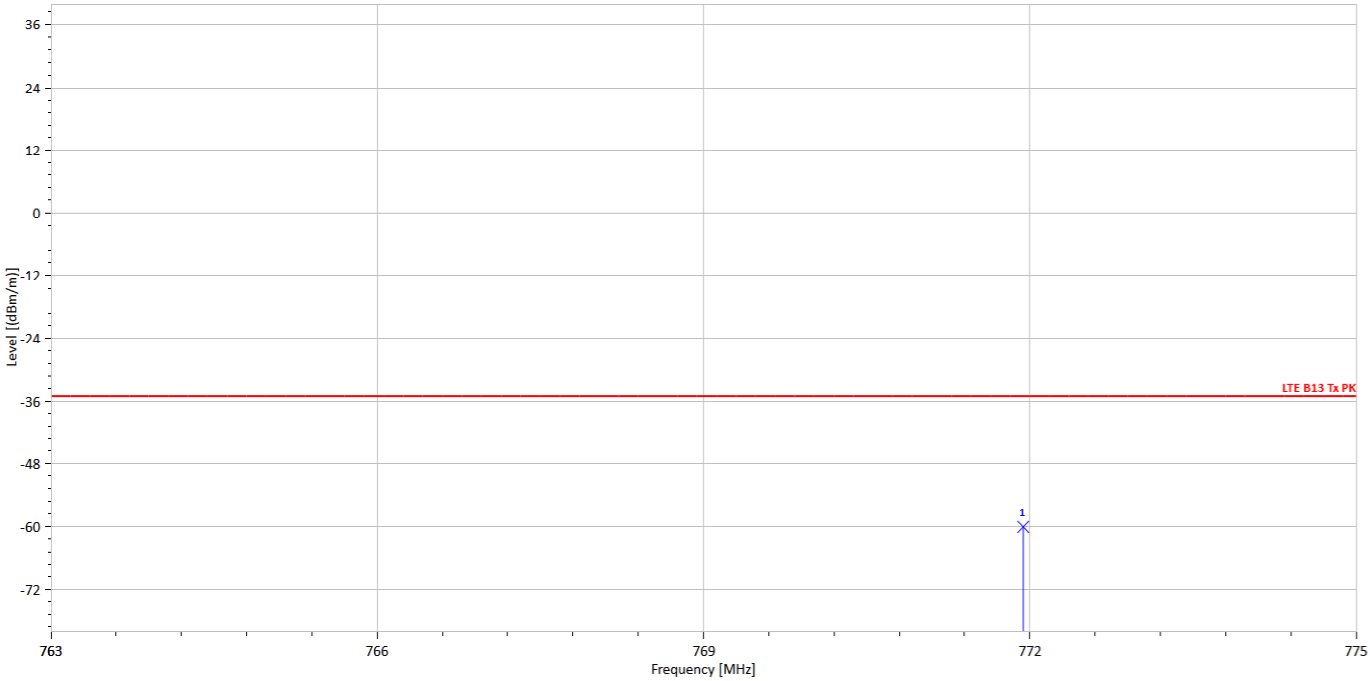
Operation Mode :	LTEB13 5M QPSK 1.0	Test Date :	2017/11/27
Fundamental Frequency :	782 MHz	Temp. / Humi. :	23deg/69%
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBd/dBi	dB	dBm/m	dB
771.94	S	-60.13	-61.30	5.19	-4.02	-35	-25.13

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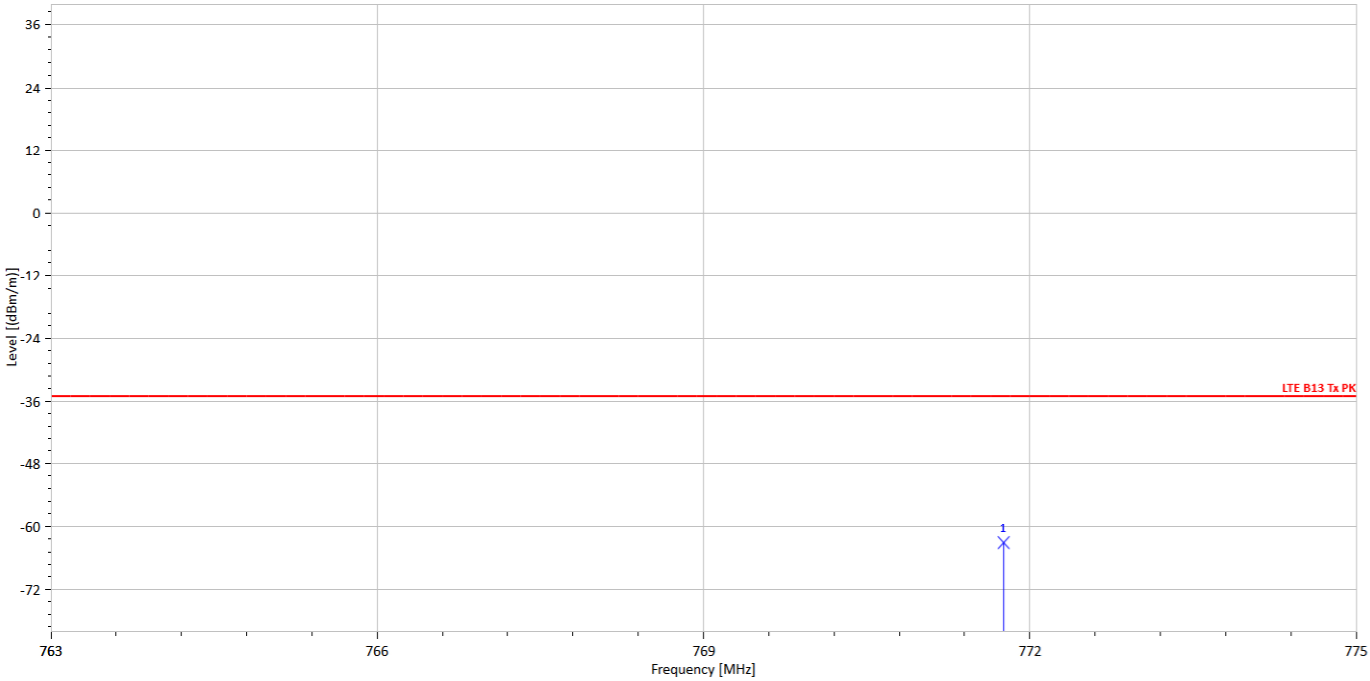
Operation Mode :	LTEB13 5M QPSK 1.0	Test Date :	2017/11/27
Fundamental Frequency :	782 MHz	Temp. / Humi. :	23deg/69%
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBd/dBi	dB	dBm/m	dB
771.76	S	-63.12	-64.29	5.19	-4.02	-35	-28.12

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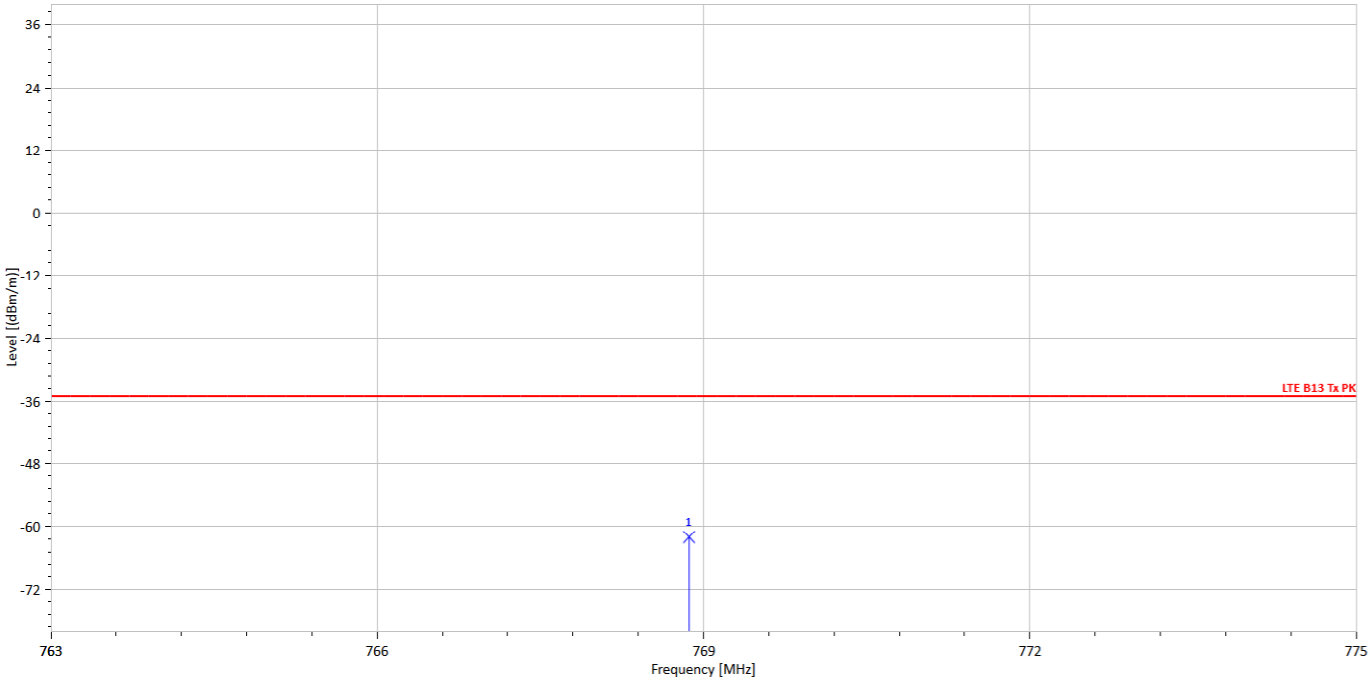
Operation Mode :	LTEB13 5M QPSK 1.0	Test Date :	2017/11/27
Fundamental Frequency :	784.5 MHz	Temp. / Humi. :	23deg/69%
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBd/dBi	dB	dBm/m	dB
768.87	S	-62.07	-63.25	5.18	-4.01	-35	-27.07

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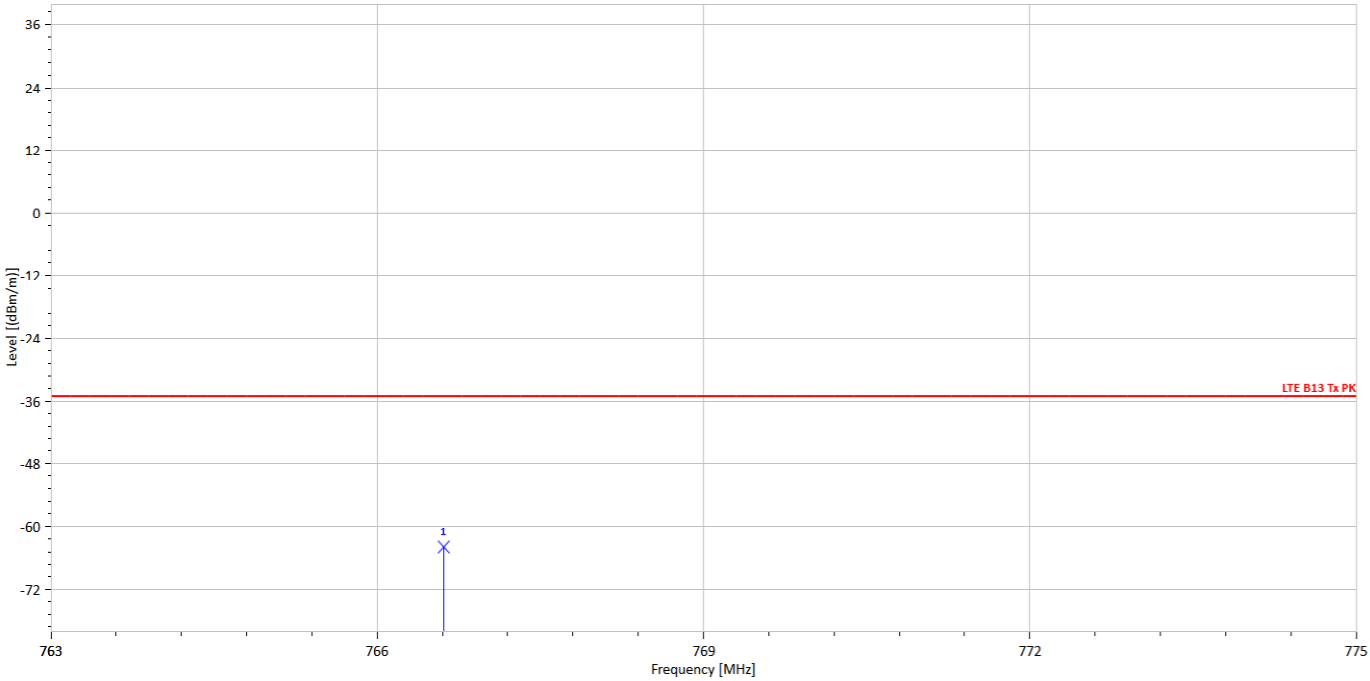
Operation Mode :	LTEB13 5M QPSK 1.0	Test Date :	2017/11/27
Fundamental Frequency :	784.5 MHz	Temp. / Humi. :	23deg/69%
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBd/dBi	dB	dBm/m	dB
766.61	S	-63.89	-65.08	5.18	-4.00	-35	-28.89

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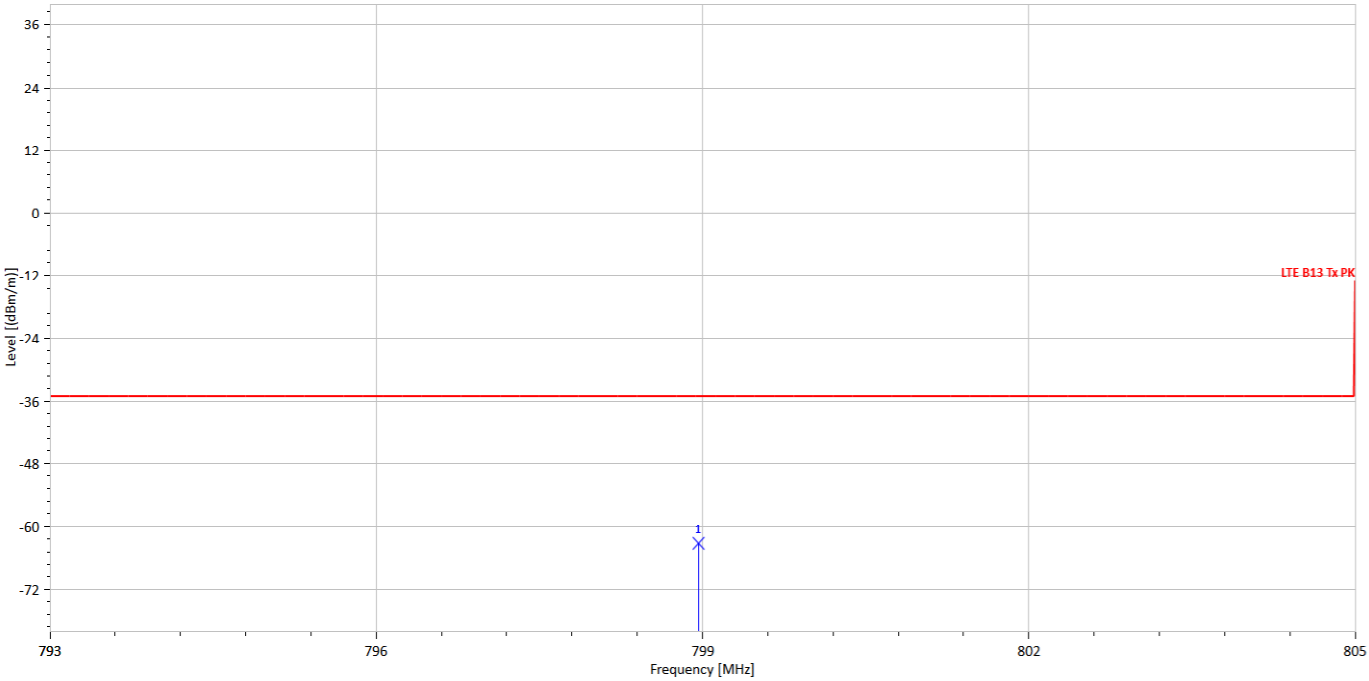
Operation Mode :	LTEB13 5M QPSK 1.0	Test Date :	2017/11/27
Fundamental Frequency :	779.5 MHz	Temp. / Humi. :	23deg/69%
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBd/dBi	dB	dBm/m	dB
798.96	S	-63.24	-64.35	5.22	-4.11	-35	-28.24

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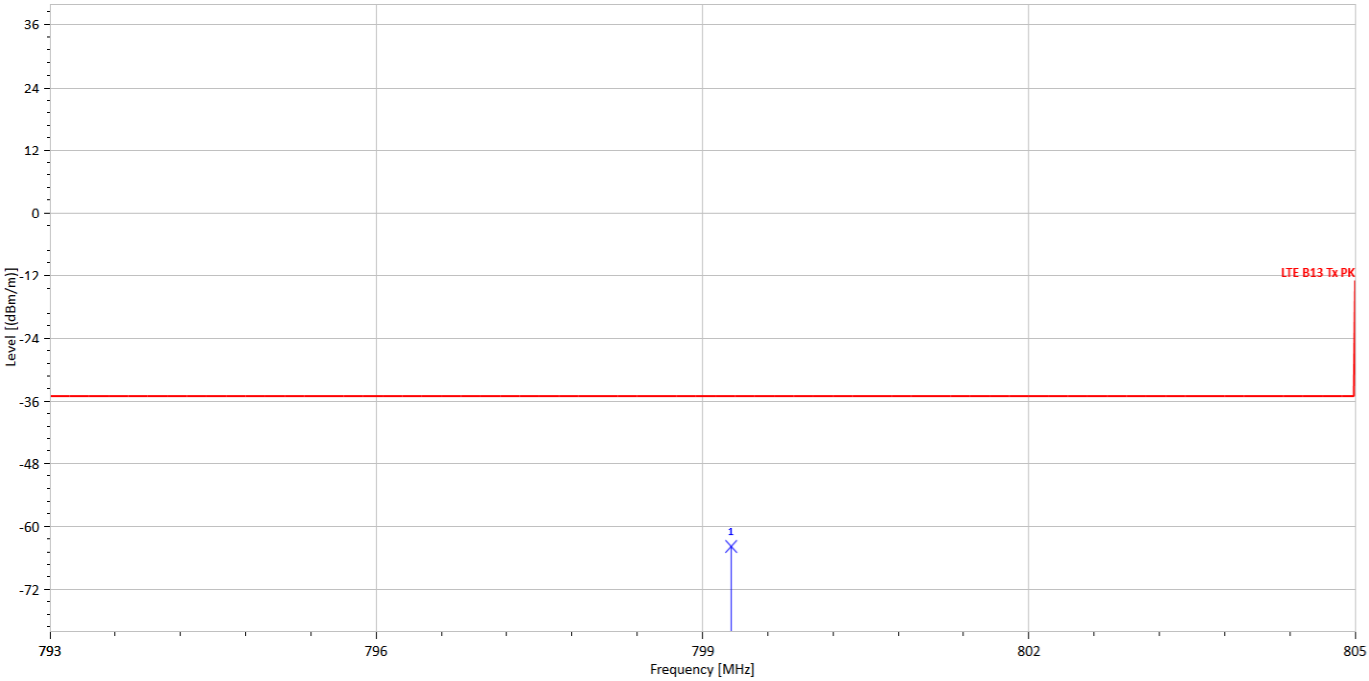
Operation Mode :	LTEB13 5M QPSK 1.0	Test Date :	2017/11/27
Fundamental Frequency :	779.5 MHz	Temp. / Humi. :	23deg/69%
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBd/dBi	dB	dBm/m	dB
799.26	S	-63.80	-64.91	5.22	-4.11	-35	-28.80

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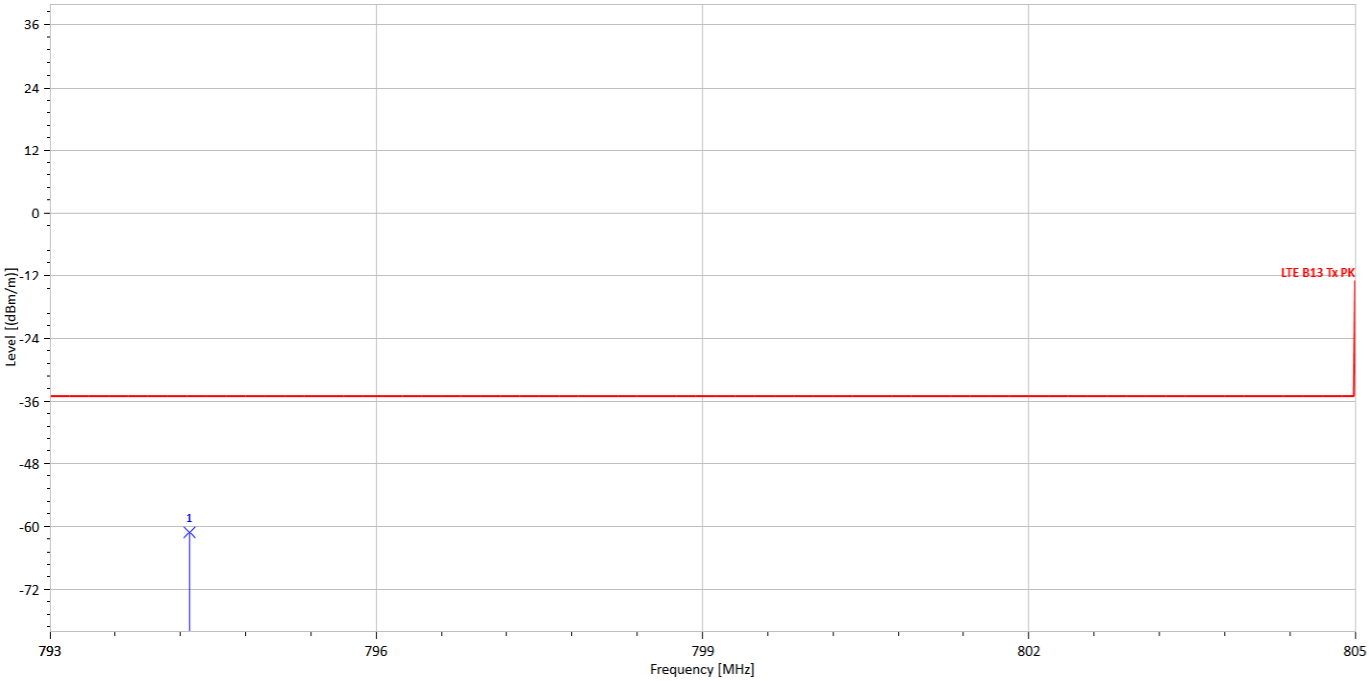
Operation Mode :	LTEB13 5M QPSK 1.0	Test Date :	2017/11/27
Fundamental Frequency :	782 MHz	Temp. / Humi. :	23deg/69%
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBd/dBi	dB	dBm/m	dB
794.28	S	-61.21	-62.32	5.21	-4.10	-35	-26.21

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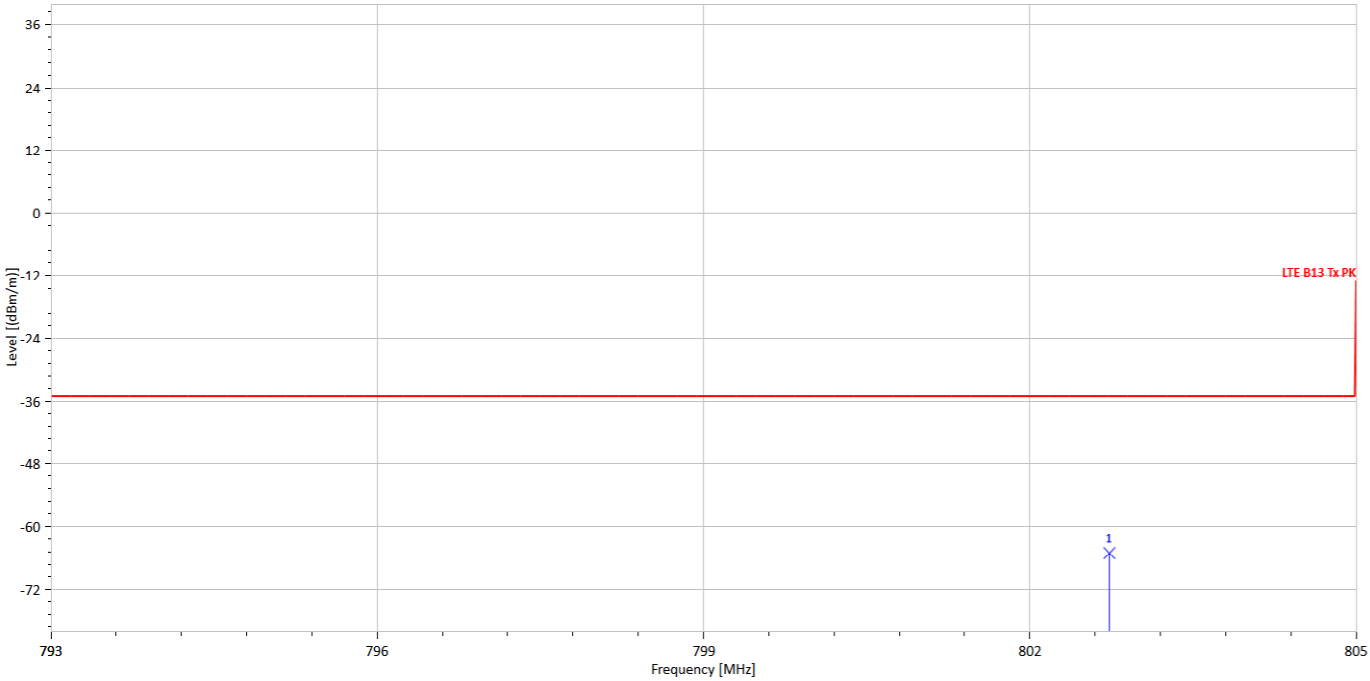
Operation Mode :	LTEB13 5M QPSK 1.0	Test Date :	2017/11/27
Fundamental Frequency :	782 MHz	Temp. / Humi. :	23deg/69%
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBd/dBi	dB	dBm/m	dB
802.73	S	-65.04	-66.13	5.21	-4.12	-35	-30.04

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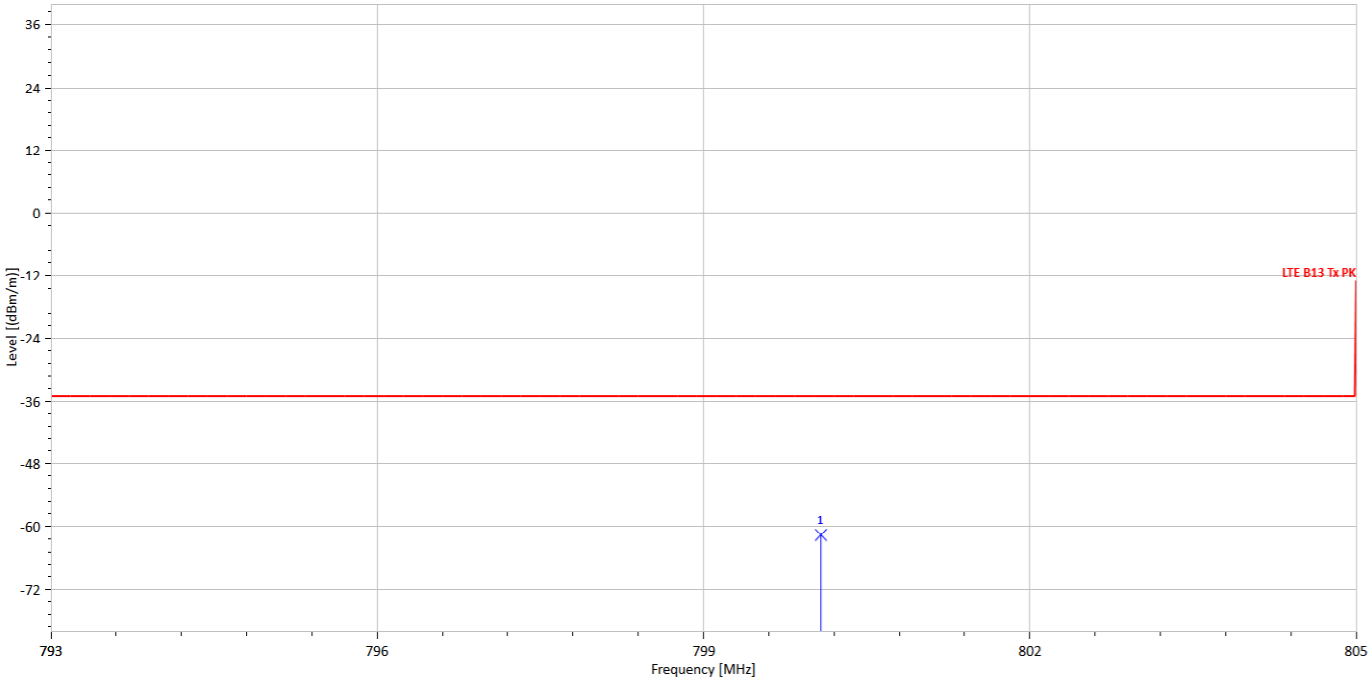
Operation Mode :	LTEB13 5M QPSK 1.0	Test Date :	2017/11/27
Fundamental Frequency :	784.5 MHz	Temp. / Humi. :	23deg/69%
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBd/dBi	dB	dBm/m	dB
800.08	S	-61.69	-62.80	5.22	-4.11	-35	-26.69

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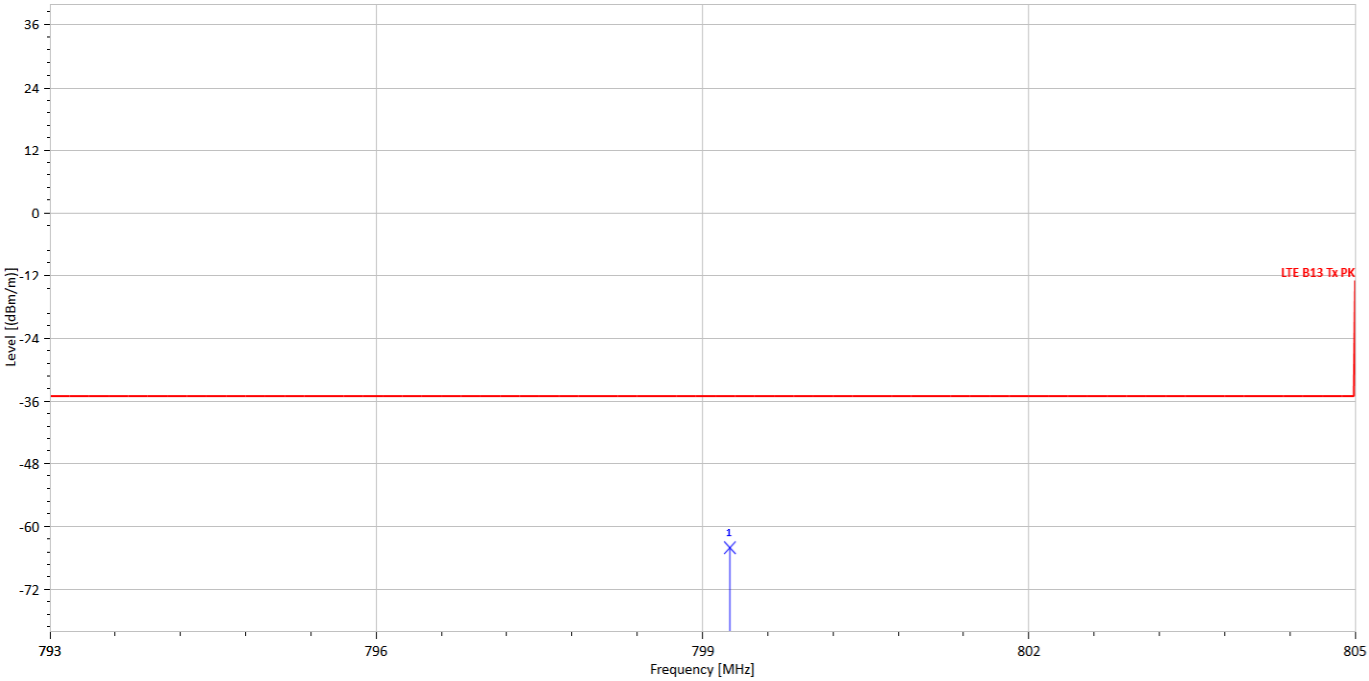
Operation Mode :	LTEB13 5M QPSK 1.0	Test Date :	2017/11/27
Fundamental Frequency :	784.5 MHz	Temp. / Humi. :	23deg/69%
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBd/dBi	dB	dBm/m	dB
799.25	S	-64.01	-65.13	5.22	-4.11	-35	-29.01

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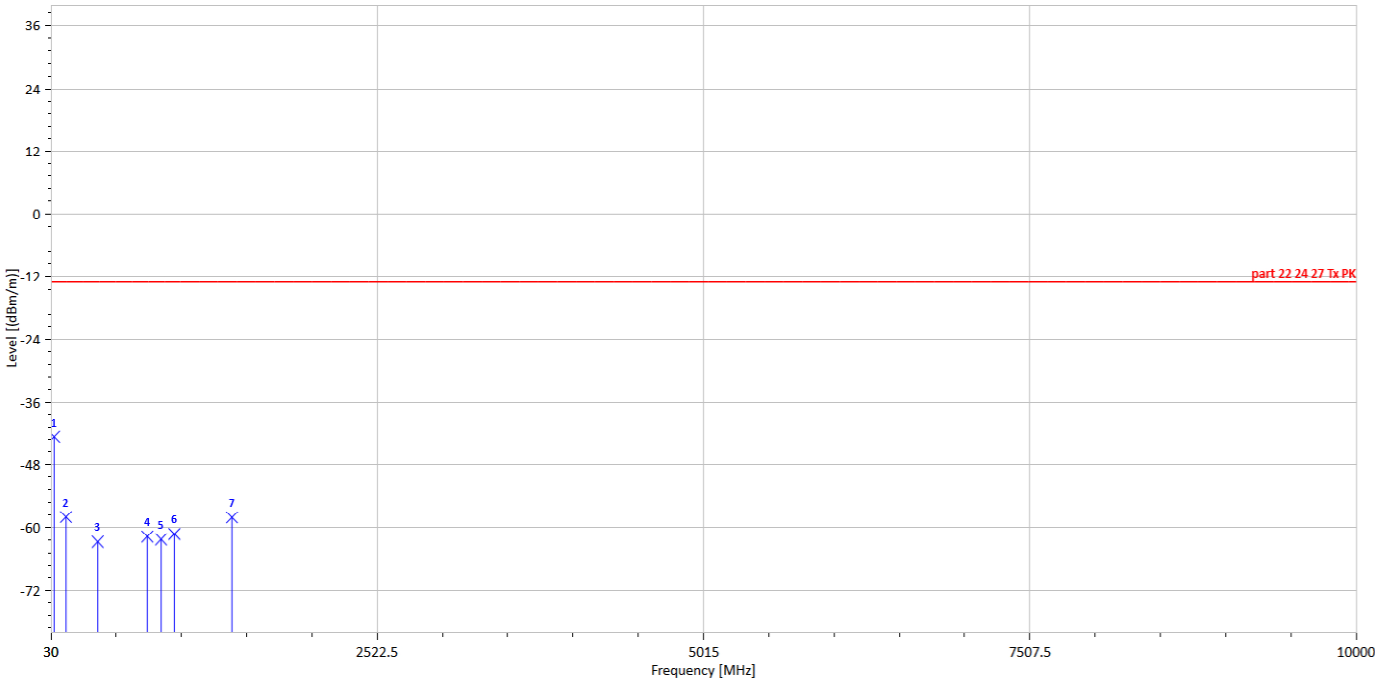
Radiated Spurious Emission Measurement Result: LTE-Band 17 (The Worst Case)

Operation Mode :	LTEB17 5M 16QAM 1.24	Test Date :	2017/11/27
Fundamental Frequency :	706.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
54.59	S	-42.64	-36.31	-5.34	-1.00	-13.01	-29.63
145.10	S	-58.06	-55.92	-0.45	-1.68	-13.01	-45.05
387.60	S	-62.77	-63.21	3.26	-2.82	-13.01	-49.76
766.44	S	-61.80	-62.98	5.18	-4.00	-13.01	-48.79
871.49	S	-62.32	-63.11	5.13	-4.34	-13.01	-49.31
973.18	S	-61.32	-62.22	5.48	-4.59	-13.01	-48.31
1413.00	H	-58.13	-57.74	5.53	-5.93	-13.01	-45.12

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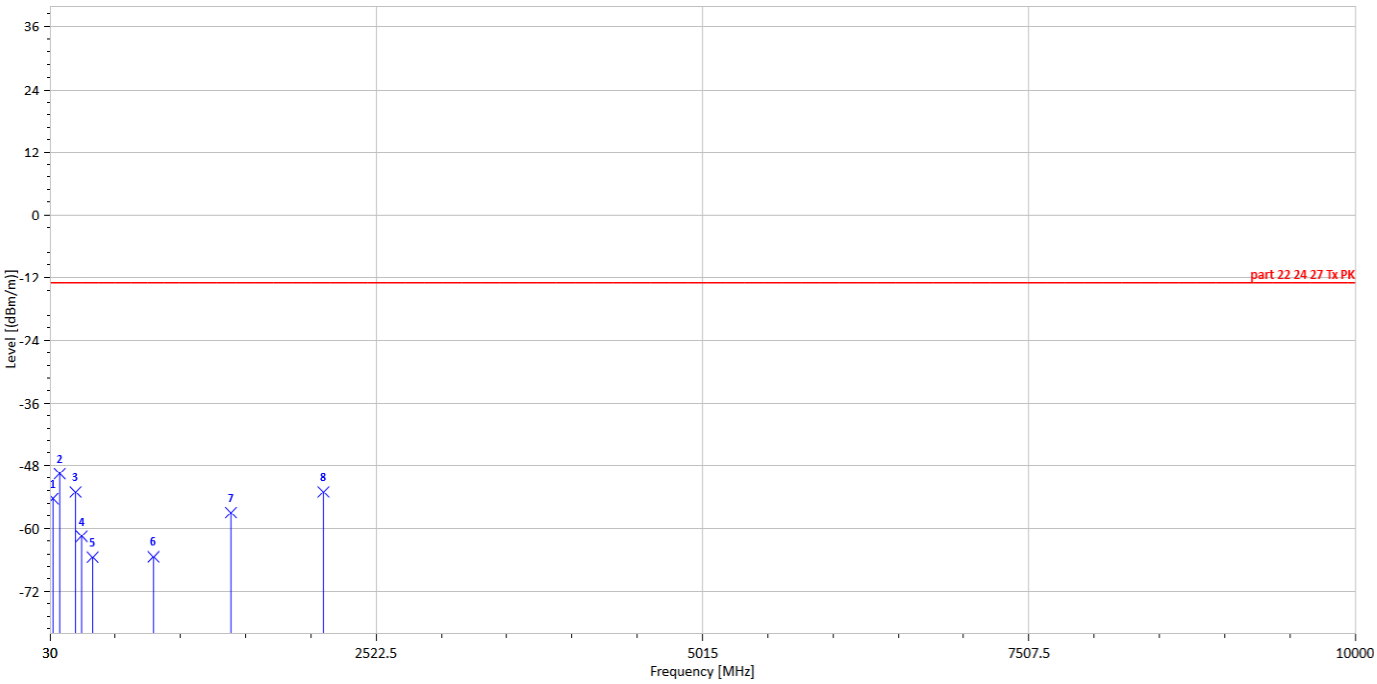
t (886-2) 2299-3279 f (886-2) 2298-0488 www.tw.sgs.com
Member of SGS Group

Operation Mode :	LTEB17 5M 16QAM 1.24	Test Date :	2017/11/27
Fundamental Frequency :	706.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
53.47	S	-54.35	-47.59	-5.78	-0.98	-13.01	-41.34
104.87	S	-49.51	-44.62	-3.47	-1.41	-13.01	-36.50
225.56	S	-53.06	-54.72	3.78	-2.12	-13.01	-40.05
272.50	S	-61.53	-62.33	3.14	-2.35	-13.01	-48.52
356.31	S	-65.43	-66.14	3.41	-2.70	-13.01	-52.42
821.20	S	-65.38	-66.36	5.15	-4.16	-13.01	-52.37
1413.00	H	-57.03	-56.63	5.53	-5.93	-13.01	-44.02
2119.50	H	-53.06	-53.91	8.17	-7.32	-13.01	-40.05

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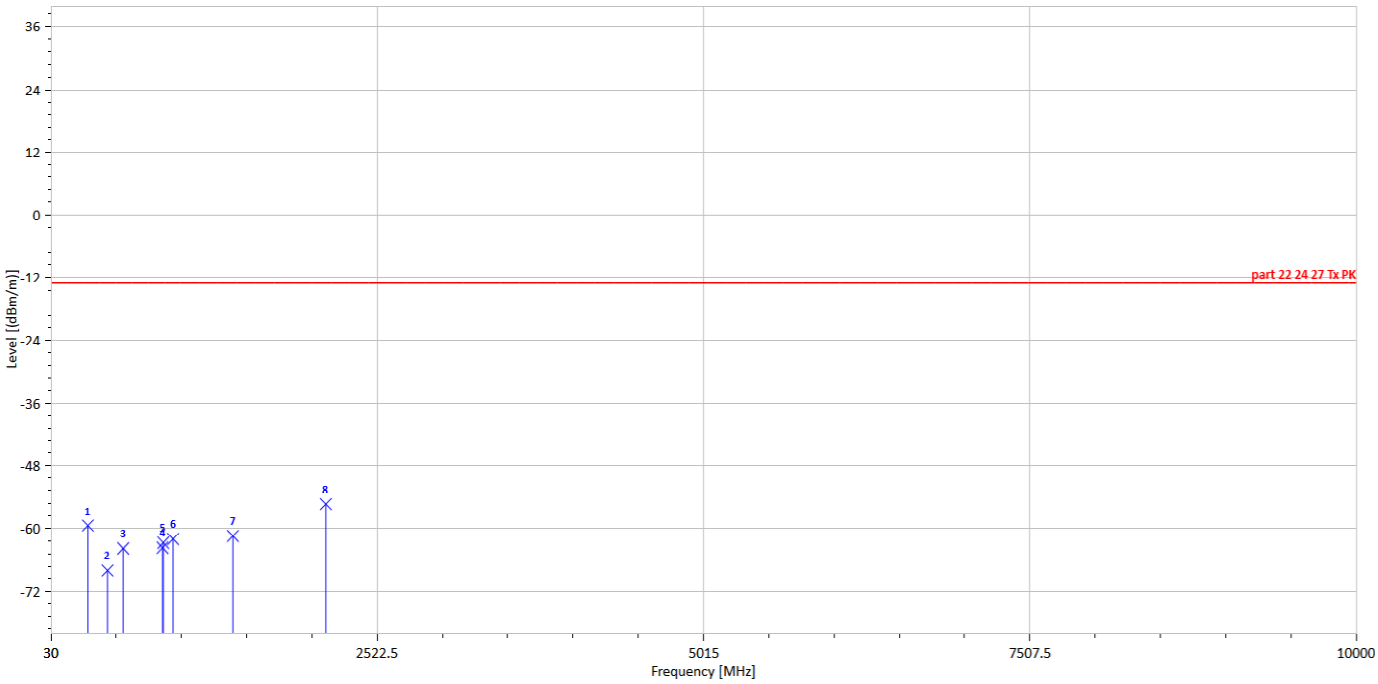
Operation Mode :	LTEB17 5M 16QAM 1.24	Test Date :	2017/11/27
Fundamental Frequency :	710 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
312.73	S	-59.52	-60.48	3.48	-2.52	-13.01	-46.51
462.48	S	-67.94	-68.58	3.72	-3.09	-13.01	-54.93
582.05	S	-63.79	-64.49	4.19	-3.50	-13.01	-50.78
882.66	S	-63.66	-64.47	5.17	-4.37	-13.01	-50.65
888.25	S	-62.76	-63.57	5.20	-4.38	-13.01	-49.75
963.12	S	-62.07	-62.96	5.45	-4.56	-13.01	-49.06
1420.00	H	-61.50	-61.12	5.57	-5.95	-13.01	-48.49
2130.00	H	-55.39	-56.23	8.18	-7.34	-13.01	-42.38

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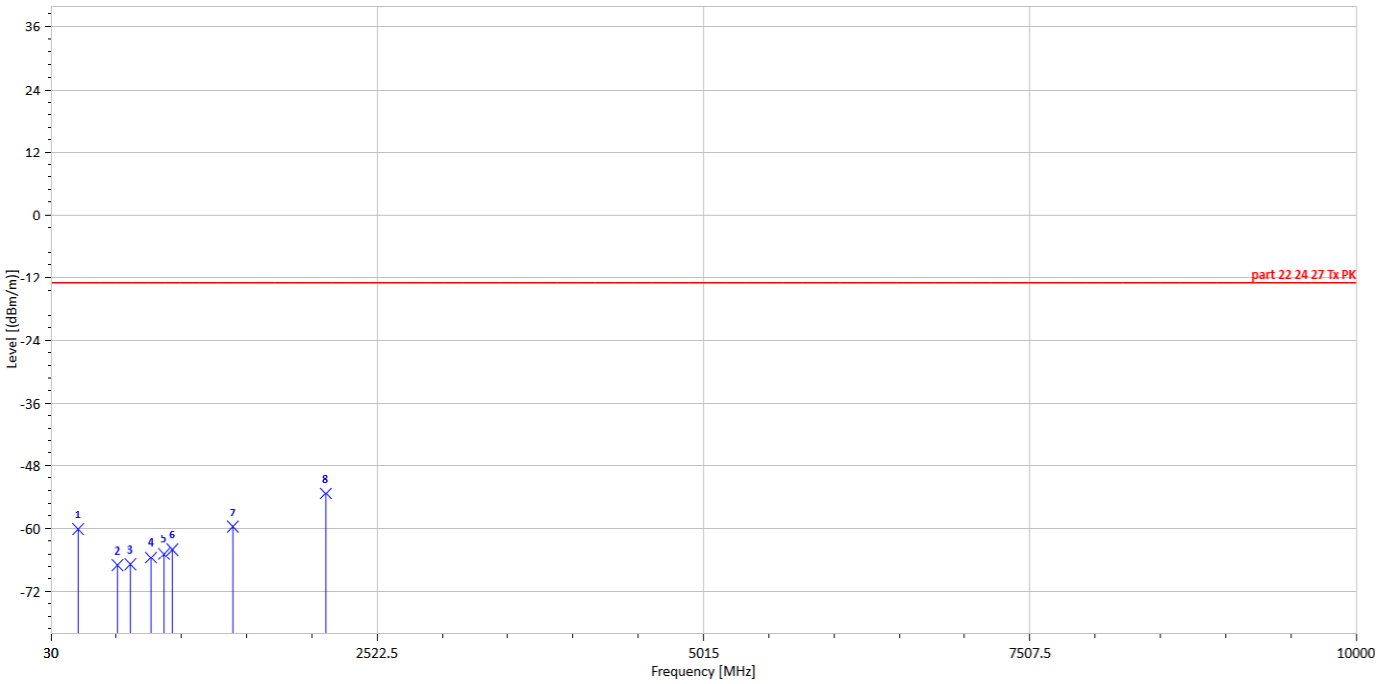
Operation Mode :	LTEB17 5M 16QAM 1.24	Test Date :	2017/11/27
Fundamental Frequency :	710 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
237.86	S	-60.17	-61.25	3.25	-2.18	-13.01	-47.16
538.47	S	-66.97	-67.58	3.99	-3.38	-13.01	-53.96
636.81	S	-66.81	-67.69	4.54	-3.66	-13.01	-53.80
794.38	S	-65.51	-66.62	5.21	-4.10	-13.01	-52.50
893.84	S	-64.83	-65.65	5.22	-4.40	-13.01	-51.82
957.53	S	-64.00	-64.89	5.43	-4.54	-13.01	-50.99
1420.00	H	-59.71	-59.33	5.57	-5.95	-13.01	-46.70
2130.00	H	-53.33	-54.17	8.18	-7.34	-13.01	-40.32

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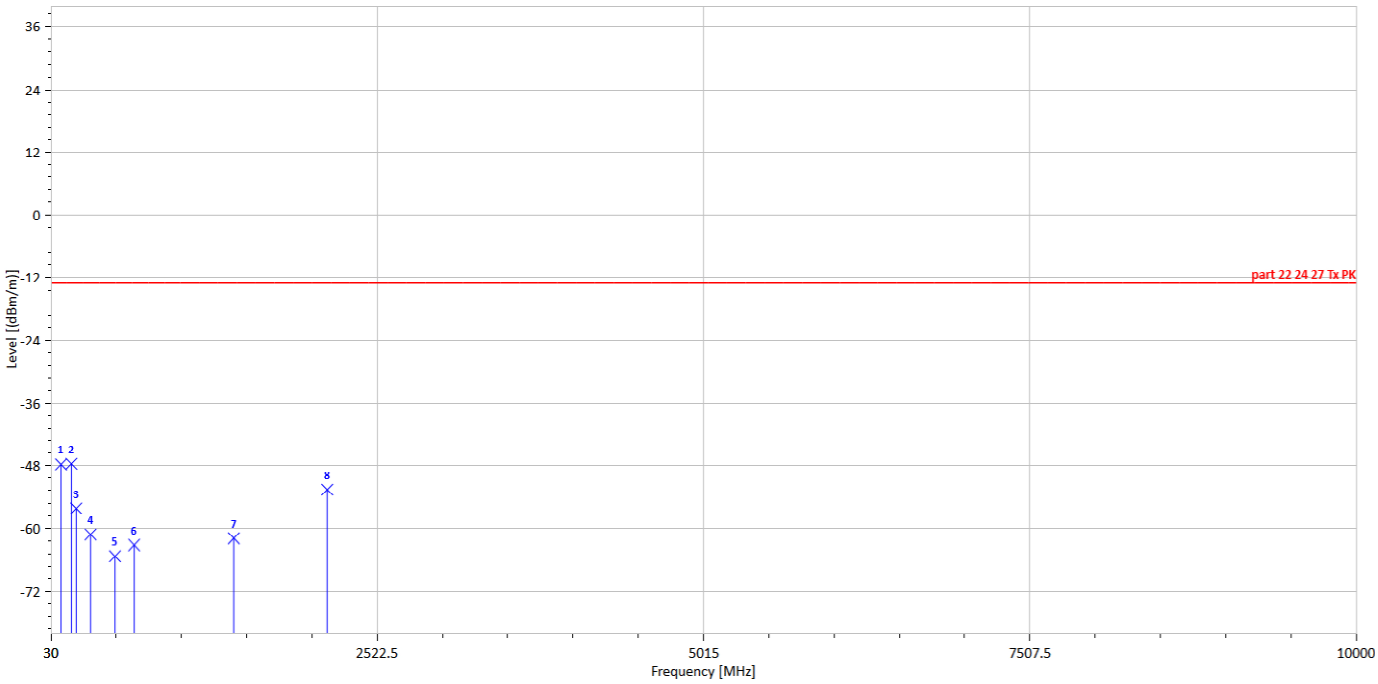
Operation Mode :	LTEB17 5M 16QAM 1.24	Test Date :	2017/11/27
Fundamental Frequency :	713.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
107.11	S	-47.73	-42.77	-3.53	-1.43	-13.01	-34.72
186.45	S	-47.61	-49.67	3.97	-1.92	-13.01	-34.60
223.33	S	-56.22	-57.98	3.87	-2.11	-13.01	-43.21
332.85	S	-61.22	-62.07	3.46	-2.61	-13.01	-48.21
519.47	S	-65.26	-65.96	4.01	-3.31	-13.01	-52.25
665.86	S	-63.19	-64.22	4.76	-3.73	-13.01	-50.18
1427.00	H	-61.93	-61.57	5.60	-5.96	-13.01	-48.92
2140.50	H	-52.61	-53.45	8.19	-7.35	-13.01	-39.60

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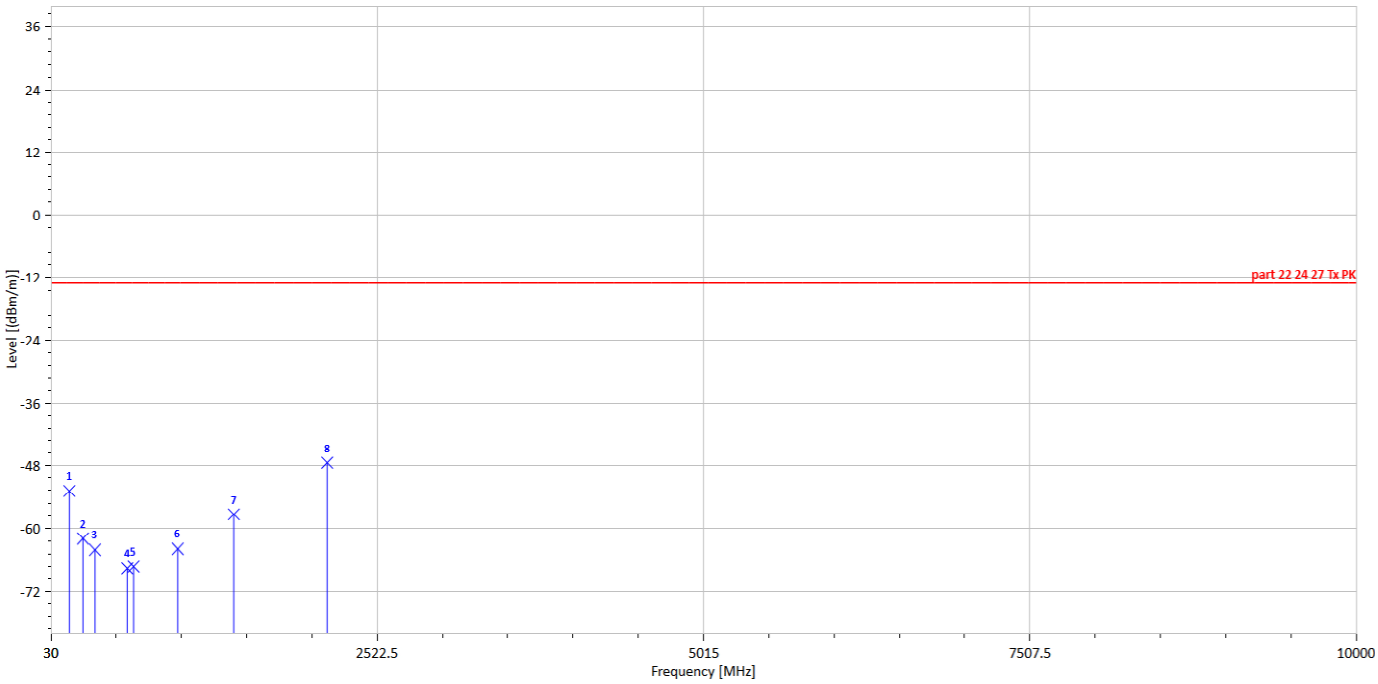
Operation Mode :	LTEB17 5M 16QAM 1.24	Test Date :	2017/11/27
Fundamental Frequency :	713.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
170.81	S	-52.86	-53.69	2.66	-1.83	-13.01	-39.85
274.74	S	-61.97	-62.80	3.19	-2.36	-13.01	-48.96
366.37	S	-64.04	-64.66	3.36	-2.74	-13.01	-51.03
613.34	S	-67.56	-68.35	4.40	-3.61	-13.01	-54.55
661.39	S	-67.22	-68.22	4.72	-3.72	-13.01	-54.21
998.88	S	-63.85	-64.77	5.56	-4.64	-13.01	-50.84
1427.00	H	-57.35	-56.99	5.60	-5.96	-13.01	-44.34
2140.50	H	-47.39	-48.23	8.19	-7.35	-13.01	-34.38

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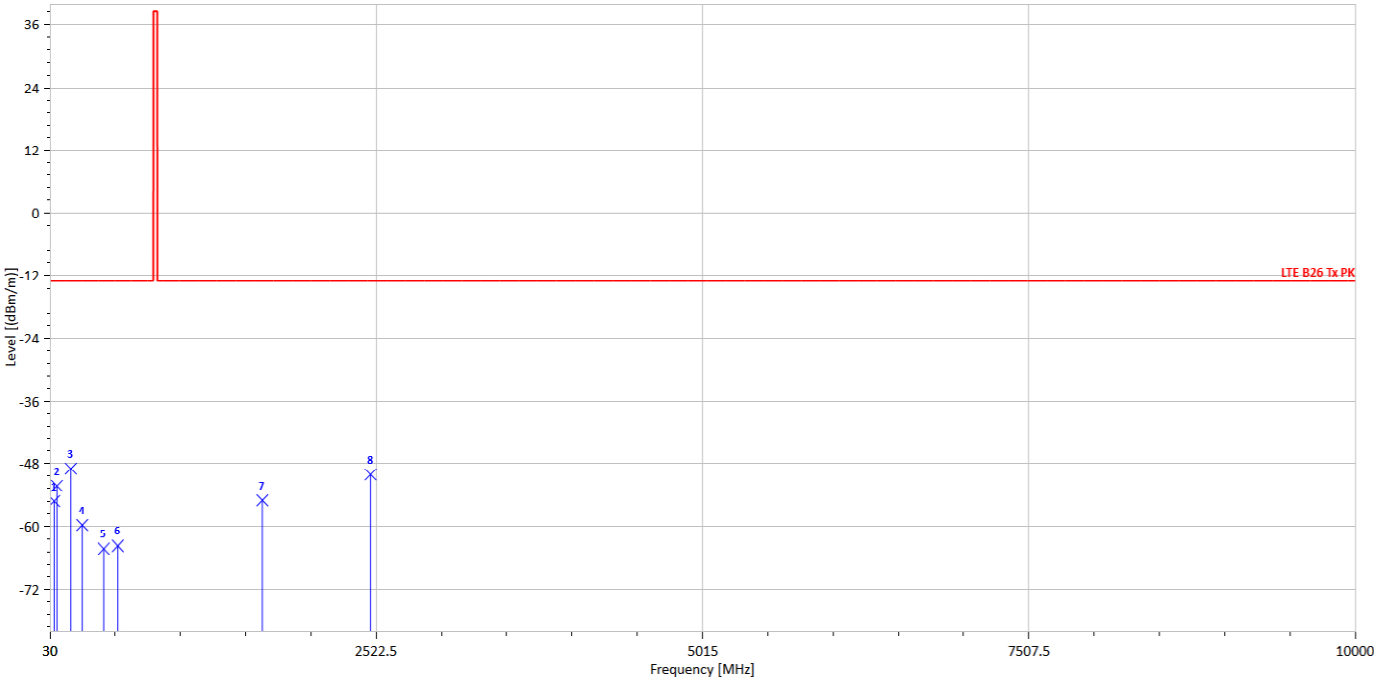
Radiated Spurious Emission Measurement Result: LTE-Band 26 (The Worst Case)

Operation Mode :	LTEB26 5M QPSK 1.0	Test Date :	2017/11/27
Fundamental Frequency :	826.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
62.41	S	-55.19	-51.24	-2.88	-1.07	-13	-42.19
83.64	S	-52.26	-49.12	-1.89	-1.25	-13	-39.26
189.80	S	-48.96	-51.15	4.13	-1.94	-13	-35.96
276.97	S	-59.81	-60.68	3.24	-2.37	-13	-46.81
441.24	S	-64.23	-64.76	3.55	-3.01	-13	-51.23
548.53	S	-63.69	-64.26	3.97	-3.41	-13	-50.69
1653.00	H	-55.04	-55.17	6.59	-6.46	-13	-42.04
2479.50	H	-50.06	-50.79	8.53	-7.81	-13	-37.06

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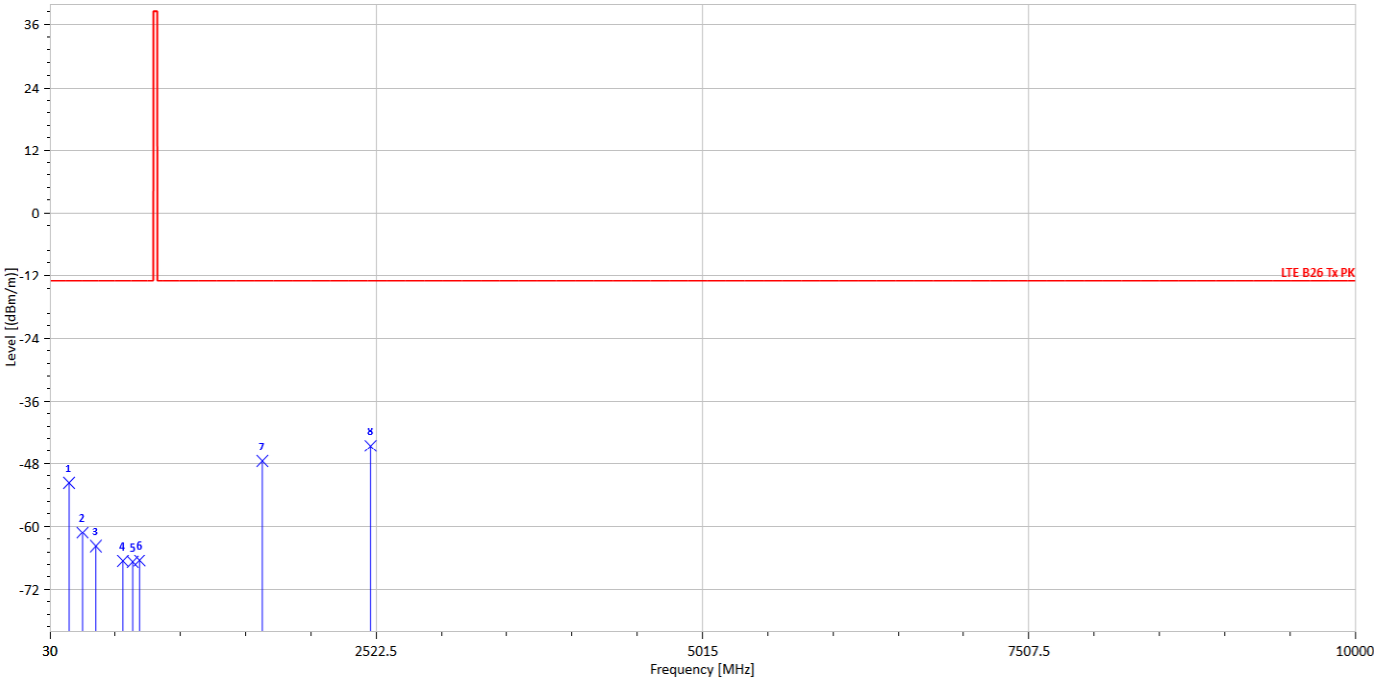
Operation Mode :	LTEB26 5M QPSK 1.0	Test Date :	2017/11/27
Fundamental Frequency :	826.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
176.39	S	-51.67	-53.08	3.27	-1.86	-13	-38.67
279.21	S	-61.25	-62.16	3.28	-2.38	-13	-48.25
380.90	S	-63.74	-64.24	3.29	-2.79	-13	-50.74
587.64	S	-66.56	-67.27	4.23	-3.52	-13	-53.56
662.51	S	-66.73	-67.74	4.73	-3.73	-13	-53.73
715.03	S	-66.44	-67.66	5.09	-3.87	-13	-53.44
1653.00	H	-47.45	-47.58	6.59	-6.46	-13	-34.45
2479.50	H	-44.58	-45.30	8.53	-7.81	-13	-31.58

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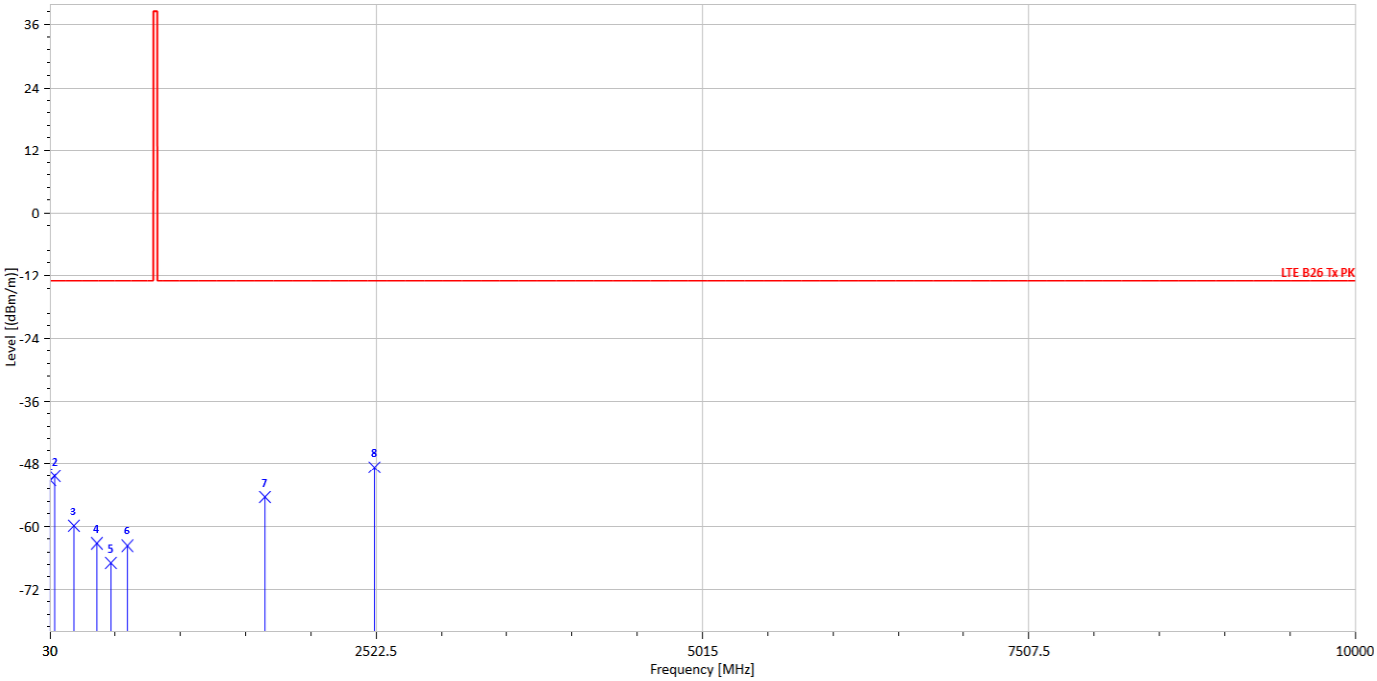
t (886-2) 2299-3279 f (886-2) 2298-0488 www.tw.sgs.com
Member of SGS Group

Operation Mode :	LTEB26 5M QPSK 1.0	Test Date :	2017/11/27
Fundamental Frequency :	836.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
32.24	S	-51.13	-29.74	-20.56	-0.83	-13	-38.13
66.88	S	-50.39	-46.95	-2.33	-1.11	-13	-37.39
213.27	S	-59.92	-61.86	4.00	-2.06	-13	-46.92
388.72	S	-63.26	-63.68	3.25	-2.82	-13	-50.26
496.00	S	-66.94	-67.73	4.01	-3.21	-13	-53.94
622.28	S	-63.67	-64.49	4.45	-3.63	-13	-50.67
1673.00	H	-54.44	-54.61	6.68	-6.50	-13	-41.44
2509.50	H	-48.71	-49.43	8.56	-7.84	-13	-35.71

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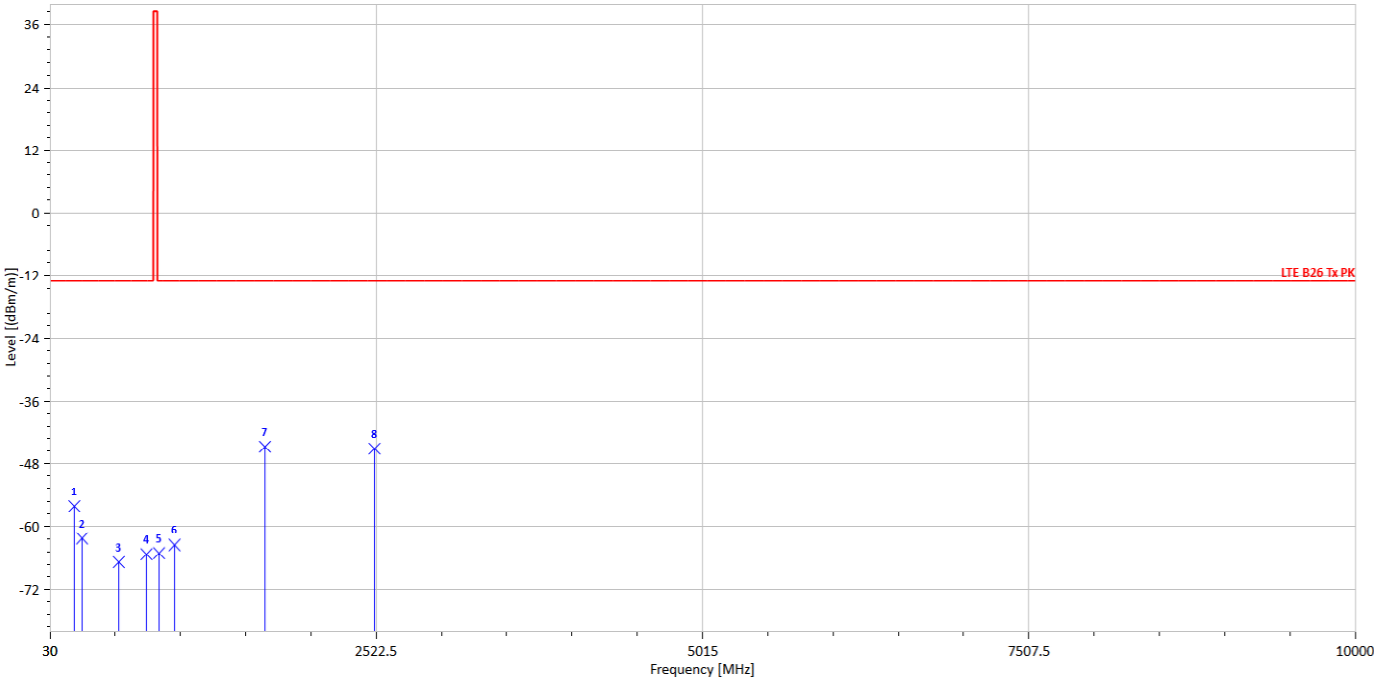
Operation Mode :	LTEB26 5M QPSK 1.0	Test Date :	2017/11/27
Fundamental Frequency :	836.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
216.62	S	-56.15	-58.09	4.01	-2.07	-13	-43.15
275.85	S	-62.32	-63.17	3.21	-2.36	-13	-49.32
556.35	S	-66.75	-67.34	4.01	-3.42	-13	-53.75
767.56	S	-65.25	-66.44	5.18	-4.00	-13	-52.25
863.66	S	-65.06	-65.84	5.10	-4.32	-13	-52.06
982.12	S	-63.54	-64.44	5.51	-4.61	-13	-50.54
1673.00	H	-44.74	-44.91	6.68	-6.50	-13	-31.74
2509.50	H	-45.10	-45.82	8.56	-7.84	-13	-32.10

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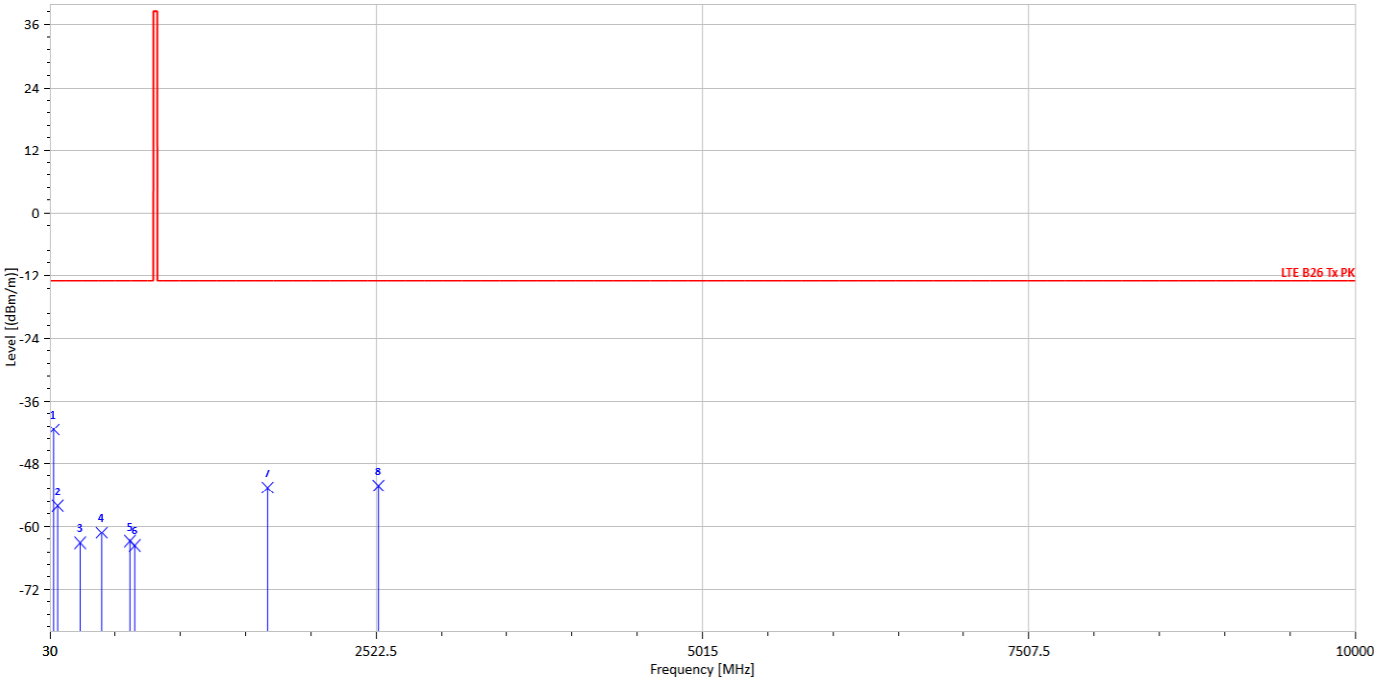
Operation Mode :	LTEB26 5M QPSK 1.0	Test Date :	2017/11/27
Fundamental Frequency :	846.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
57.94	S	-41.41	-36.38	-4.00	-1.03	-13	-28.41
89.23	S	-56.05	-52.54	-2.22	-1.29	-13	-43.05
261.32	S	-63.16	-63.05	2.20	-2.31	-13	-50.16
425.60	S	-61.26	-61.71	3.42	-2.97	-13	-48.26
641.28	S	-62.85	-63.74	4.57	-3.67	-13	-49.85
678.16	S	-63.63	-64.73	4.87	-3.76	-13	-50.63
1693.00	H	-52.61	-52.83	6.76	-6.55	-13	-39.61
2539.50	H	-52.25	-52.98	8.60	-7.87	-13	-39.25

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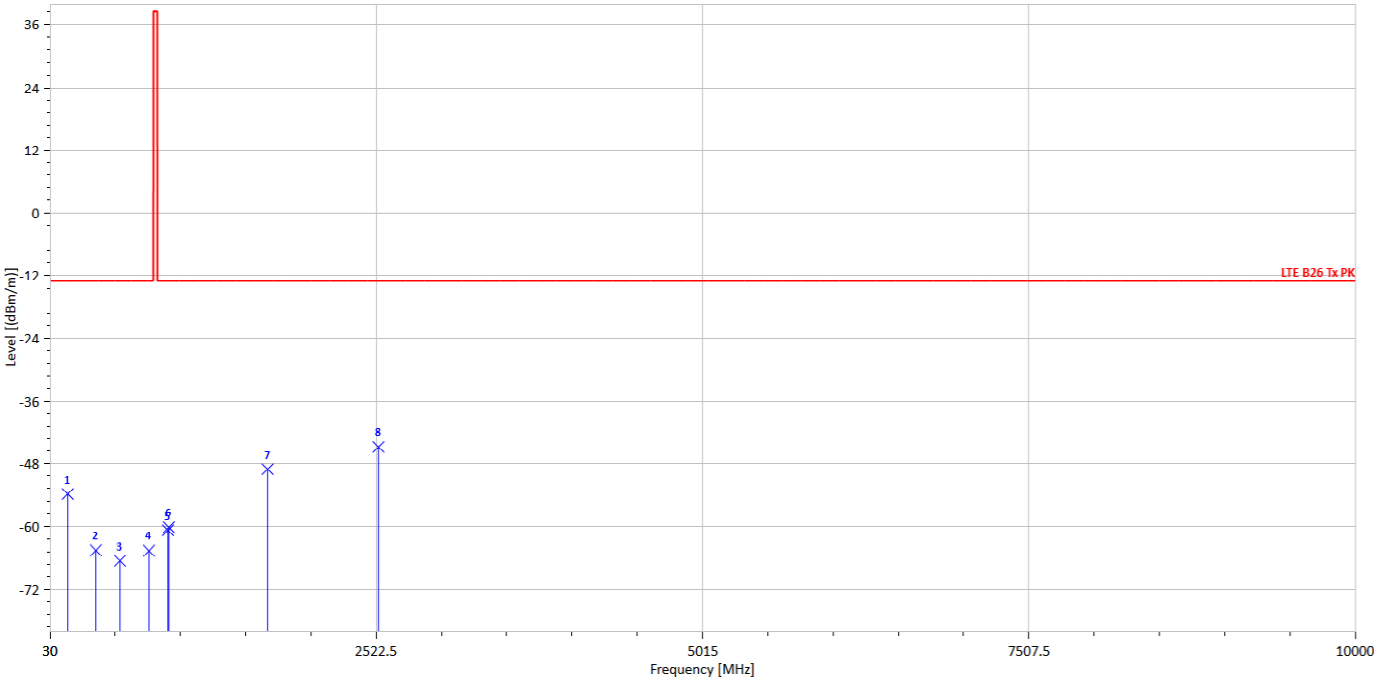
Operation Mode :	LTEB26 5M QPSK 1.0	Test Date :	2017/11/27
Fundamental Frequency :	846.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
166.34	S	-53.83	-54.14	2.12	-1.81	-13	-40.83
380.90	S	-64.53	-65.03	3.29	-2.79	-13	-51.53
565.29	S	-66.50	-67.14	4.08	-3.45	-13	-53.50
786.56	S	-64.60	-65.72	5.20	-4.08	-13	-51.60
931.83	S	-60.81	-61.68	5.35	-4.48	-13	-47.81
938.54	S	-60.21	-61.09	5.37	-4.50	-13	-47.21
1693.00	H	-49.06	-49.27	6.76	-6.55	-13	-36.06
2539.50	H	-44.76	-45.49	8.60	-7.87	-13	-31.76

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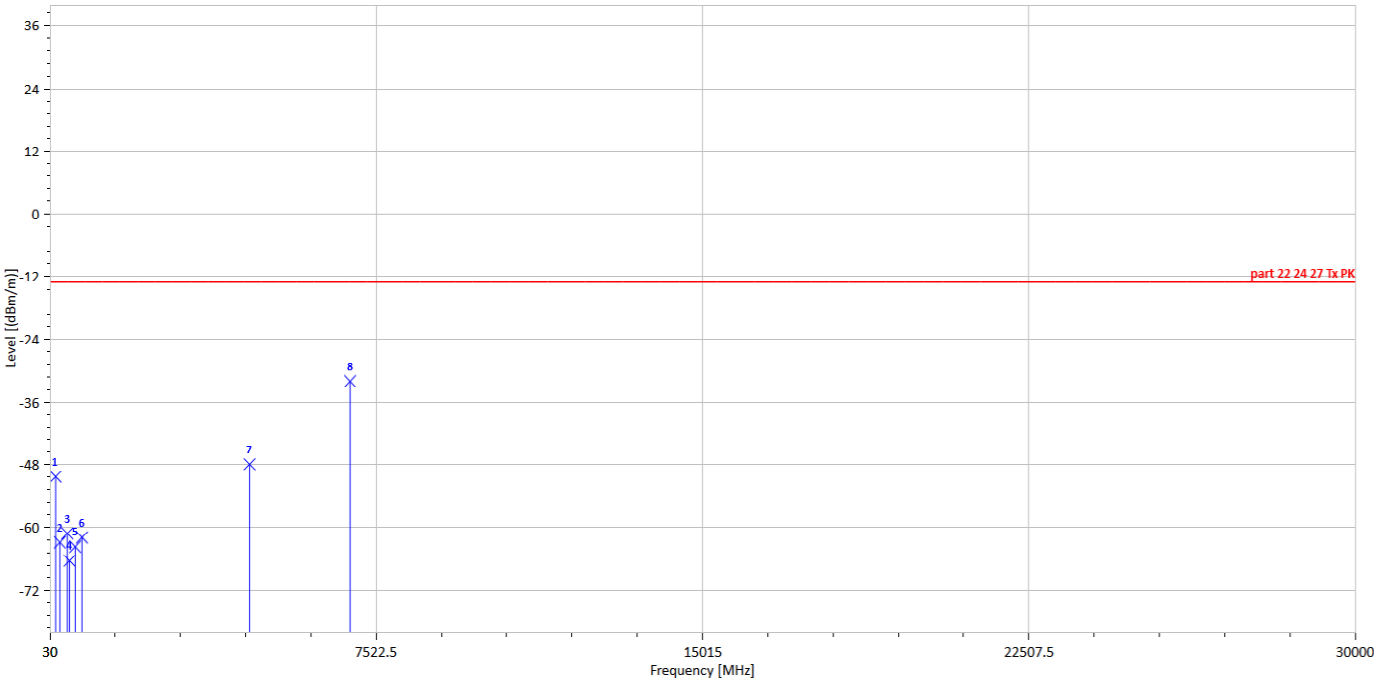
Radiated Spurious Emission Measurement Result: LTE-Band 30 (The Worst Case)

Operation Mode :	LTEB30 5M QPSK 1.0	Test Date :	2017/11/25
Fundamental Frequency :	2307.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
161.33	S	-50.29	-51.86	3.34	-1.78	-13.01	-37.28
258.10	S	-62.88	-65.23	4.63	-2.29	-13.01	-49.87
429.75	S	-61.23	-64.31	6.06	-2.98	-13.01	-48.22
480.44	S	-66.28	-69.53	6.41	-3.15	-13.01	-53.27
610.62	S	-63.67	-67.08	7.01	-3.60	-13.01	-50.66
766.14	S	-61.97	-65.70	7.73	-3.99	-13.01	-48.96
4615.00	H	-47.90	-50.87	12.58	-9.61	-13.01	-34.89
6922.50	H	-31.98	-32.81	12.05	-11.21	-13.01	-18.97

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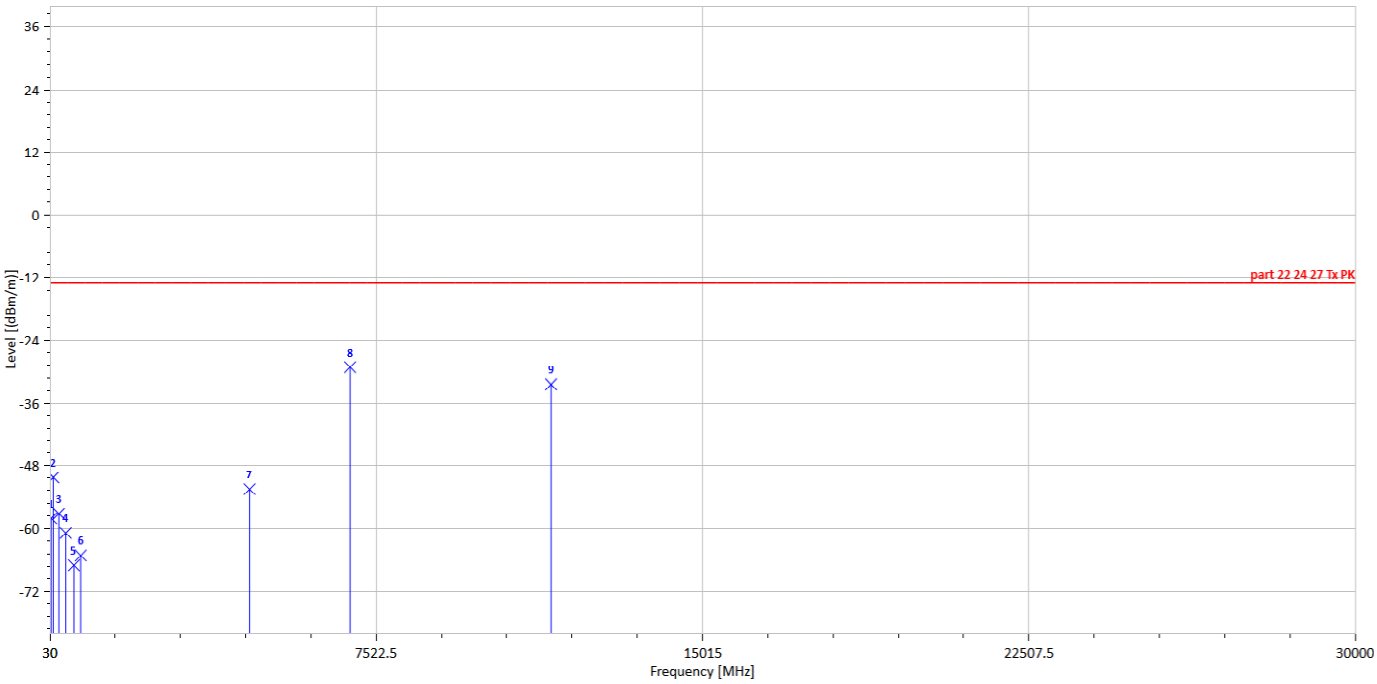
Operation Mode :	LTEB30 5M QPSK 1.0	Test Date :	2017/11/25
Fundamental Frequency :	2307.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
57.65	S	-58.15	-54.98	-2.14	-1.03	-13.01	-45.14
107.19	S	-50.24	-47.25	-1.56	-1.43	-13.01	-37.23
235.06	S	-57.22	-60.89	5.83	-2.17	-13.01	-44.21
392.89	S	-60.94	-63.89	5.79	-2.84	-13.01	-47.93
581.82	S	-66.98	-70.29	6.81	-3.50	-13.01	-53.97
737.34	S	-65.11	-68.91	7.71	-3.91	-13.01	-52.10
4615.00	H	-52.51	-55.48	12.58	-9.61	-13.01	-39.50
6922.50	H	-29.19	-30.03	12.05	-11.21	-13.01	-16.18
11537.50	H	-32.37	-30.22	11.47	-13.62	-13.01	-19.36

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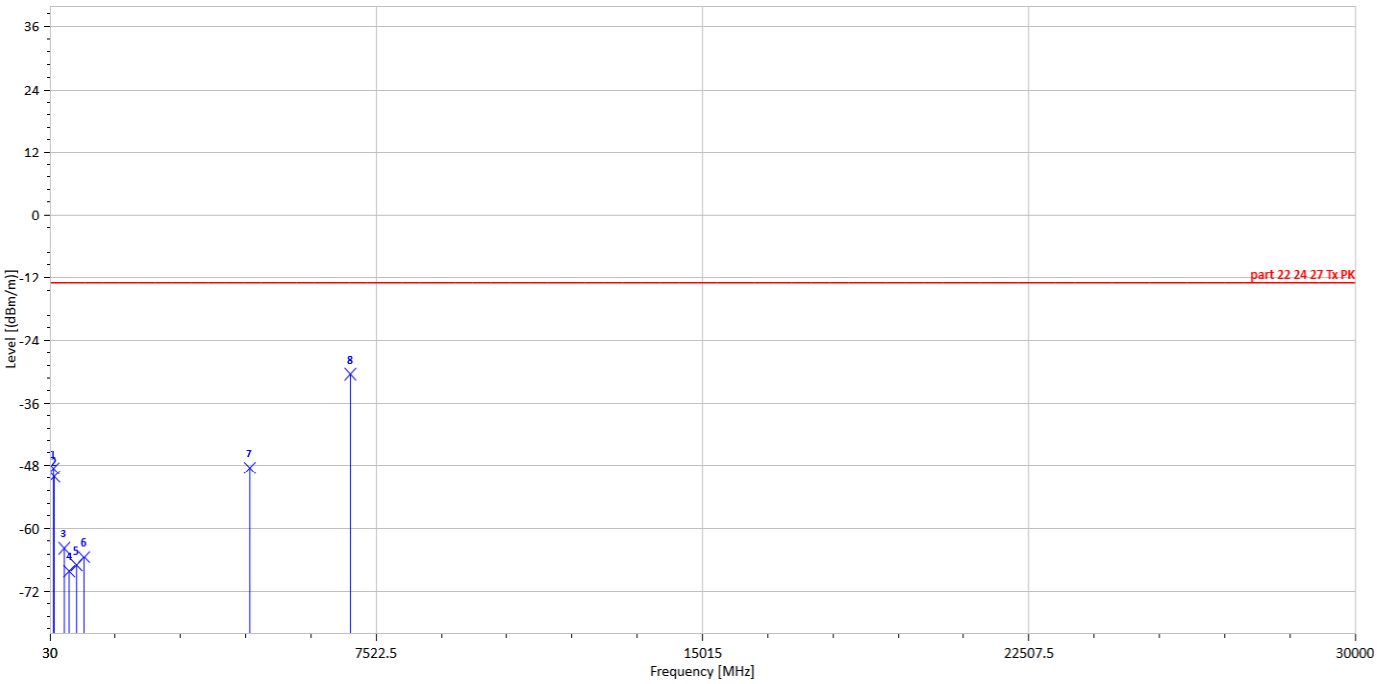
Operation Mode :	LTEB30 5M QPSK 1.0	Test Date :	2017/11/25
Fundamental Frequency :	2310 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
111.79	S	-48.51	-45.47	-1.58	-1.46	-13.01	-35.50
129.07	S	-50.09	-48.03	-0.48	-1.57	-13.01	-37.08
359.48	S	-63.76	-66.99	5.95	-2.71	-13.01	-50.75
472.38	S	-68.08	-71.33	6.37	-3.12	-13.01	-55.07
642.87	S	-66.96	-70.42	7.14	-3.68	-13.01	-53.95
814.53	S	-65.40	-69.04	7.78	-4.14	-13.01	-52.39
4620.00	H	-48.43	-51.40	12.58	-9.61	-13.01	-35.42
6930.00	H	-30.53	-31.36	12.05	-11.21	-13.01	-17.52

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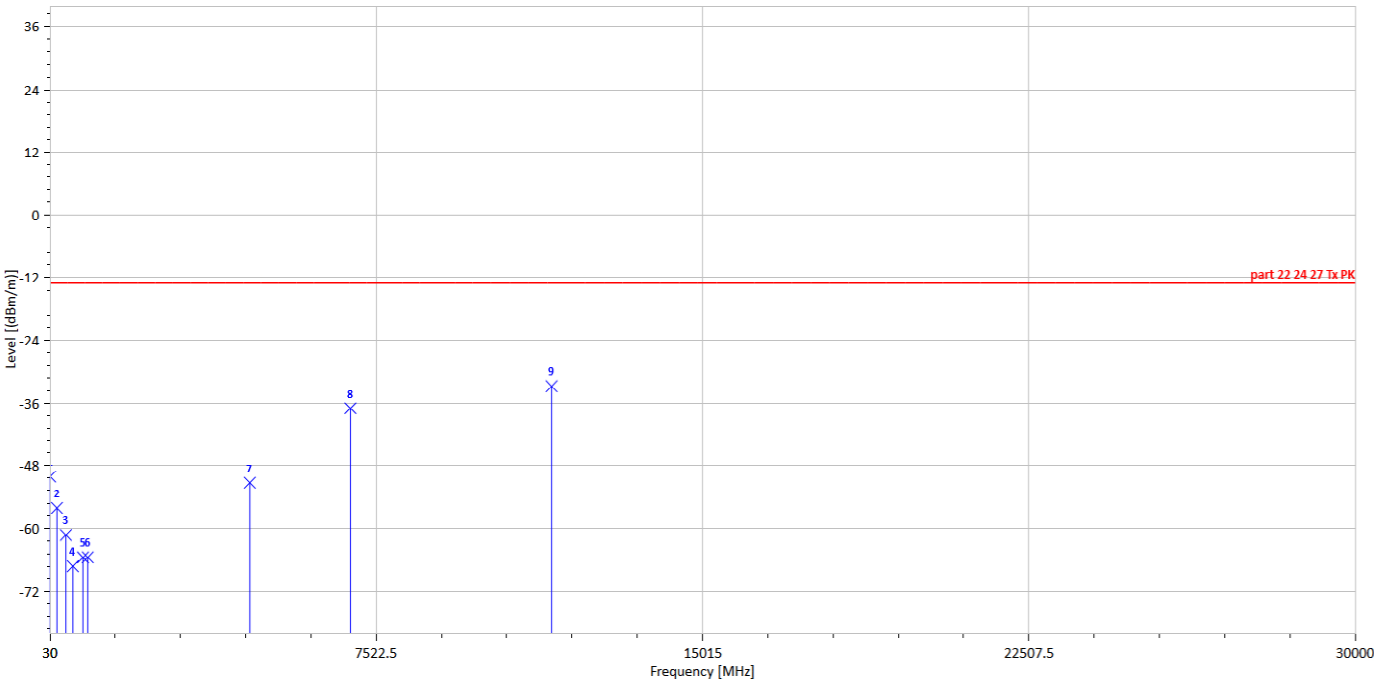
Operation Mode :	LTEB30 5M QPSK 1.0	Test Date :	2017/11/25
Fundamental Frequency :	2310 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
33.46	S	-50.09	-31.70	-17.56	-0.83	-13.01	-37.08
191.28	S	-56.11	-60.02	5.87	-1.95	-13.01	-43.10
397.49	S	-61.32	-64.22	5.76	-2.86	-13.01	-48.31
556.47	S	-67.15	-70.31	6.58	-3.42	-13.01	-54.14
789.18	S	-65.47	-69.14	7.76	-4.09	-13.01	-52.46
898.62	S	-65.46	-68.94	7.89	-4.41	-13.01	-52.45
4620.00	H	-51.27	-54.23	12.58	-9.61	-13.01	-38.26
6930.00	H	-36.94	-37.78	12.05	-11.21	-13.01	-23.93
11550.00	H	-32.73	-30.60	11.49	-13.63	-13.01	-19.72

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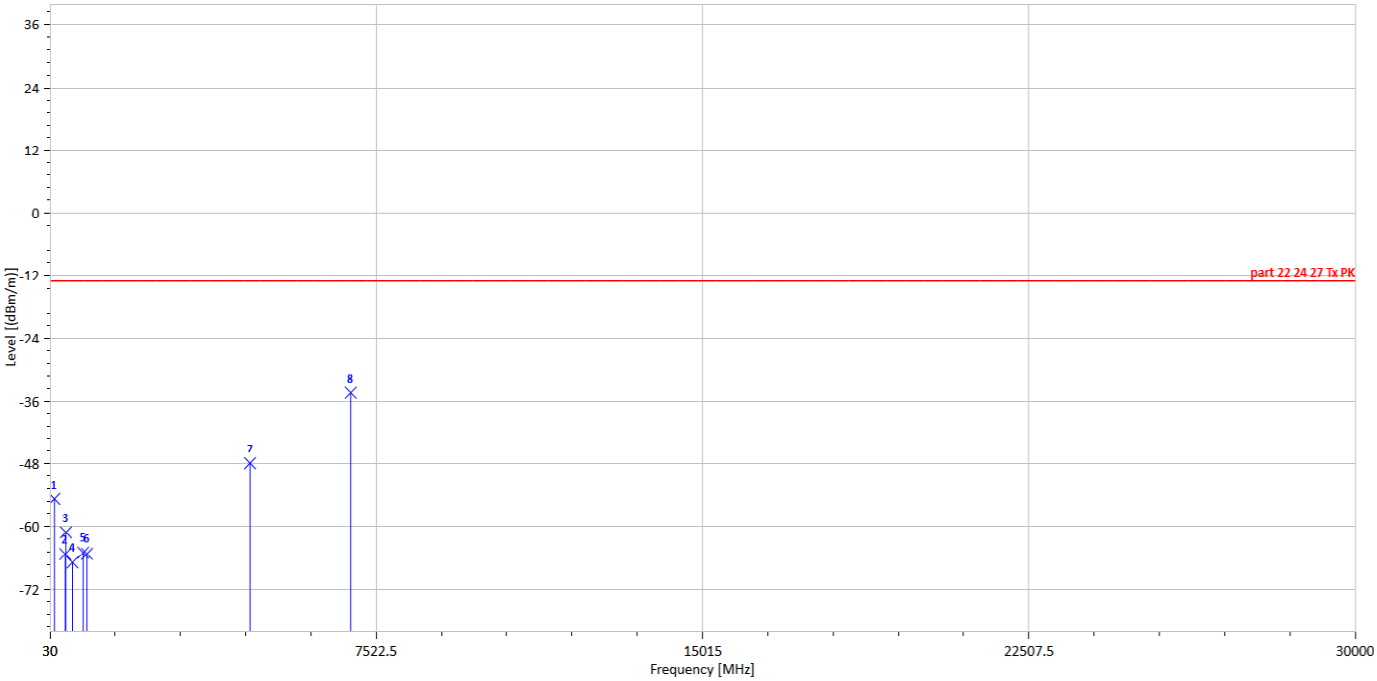
Operation Mode :	LTEB30 5M QPSK 1.0	Test Date :	2017/11/25
Fundamental Frequency :	2312.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
133.68	S	-54.79	-53.23	0.05	-1.61	-13.01	-41.78
382.52	S	-65.22	-68.26	5.84	-2.80	-13.01	-52.21
397.49	S	-61.20	-64.10	5.76	-2.86	-13.01	-48.19
548.41	S	-66.81	-69.92	6.52	-3.41	-13.01	-53.80
793.79	S	-64.97	-68.63	7.76	-4.10	-13.01	-51.96
880.19	S	-65.18	-68.67	7.86	-4.36	-13.01	-52.17
4625.00	H	-47.86	-50.83	12.58	-9.61	-13.01	-34.85
6937.50	H	-34.35	-35.18	12.04	-11.22	-13.01	-21.34

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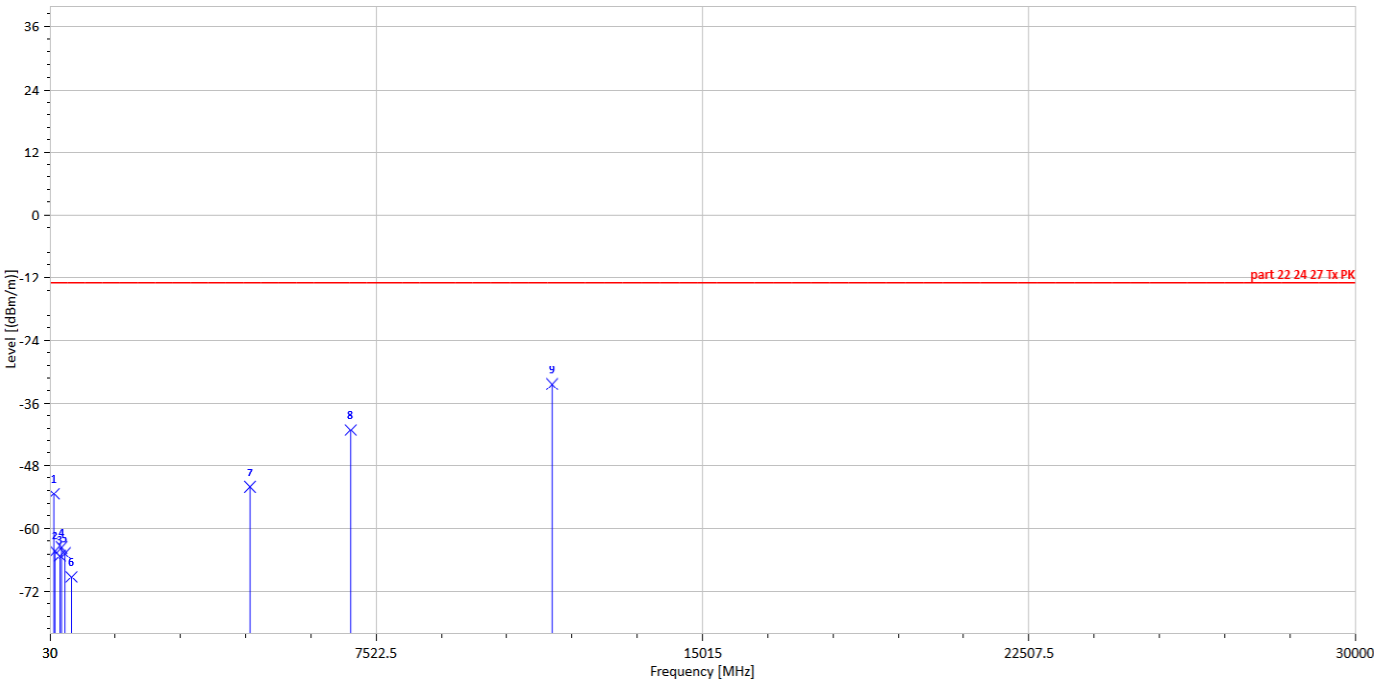
Operation Mode :	LTEB30 5M QPSK 1.0	Test Date :	2017/11/25
Fundamental Frequency :	2312.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
119.86	S	-53.39	-50.67	-1.21	-1.51	-13.01	-40.38
145.20	S	-64.28	-64.11	1.51	-1.68	-13.01	-51.27
260.40	S	-65.16	-67.41	4.54	-2.30	-13.01	-52.15
298.42	S	-63.61	-67.00	5.84	-2.45	-13.01	-50.60
374.45	S	-64.68	-67.79	5.87	-2.77	-13.01	-51.67
525.37	S	-69.22	-72.39	6.50	-3.33	-13.01	-56.21
4625.00	H	-52.03	-55.00	12.58	-9.61	-13.01	-39.02
6937.50	H	-41.13	-41.95	12.04	-11.22	-13.01	-28.12
11562.50	H	-32.33	-30.22	11.54	-13.64	-13.01	-19.32

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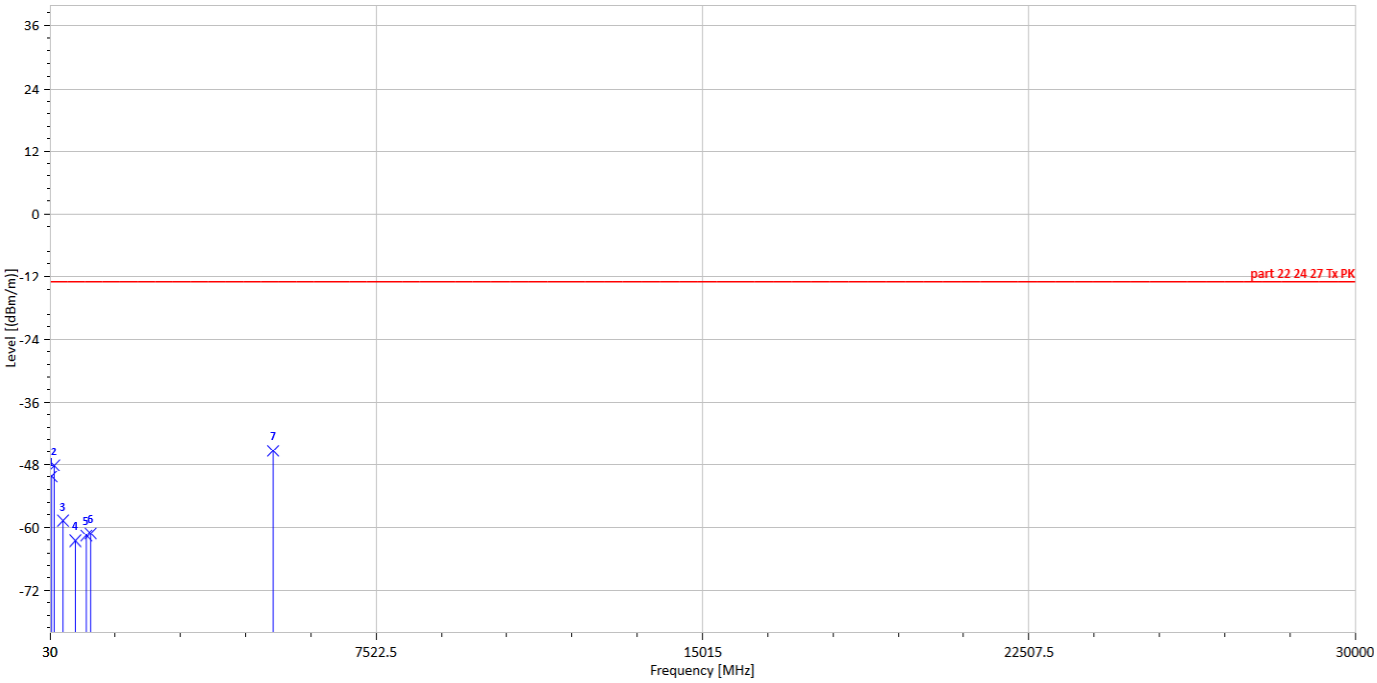
Radiated Spurious Emission Measurement Result: LTE-Band 38 (The Worst Case)

Operation Mode :	LTEB38 15M QPSK 1.74	Test Date :	2017/12/9
Fundamental Frequency :	2577.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
68.80	S	-50.24	-49.07	-0.05	-1.13	-13	-37.24
128.94	S	-48.13	-46.06	-0.50	-1.57	-13	-35.13
330.70	S	-58.80	-62.13	5.94	-2.60	-13	-45.80
614.91	S	-62.61	-66.03	7.03	-3.61	-13	-49.61
867.11	S	-61.61	-65.11	7.83	-4.33	-13	-48.61
965.08	S	-61.23	-64.67	8.01	-4.57	-13	-48.23
5155.00	H	-45.33	-47.94	12.66	-10.04	-13.01	-32.32

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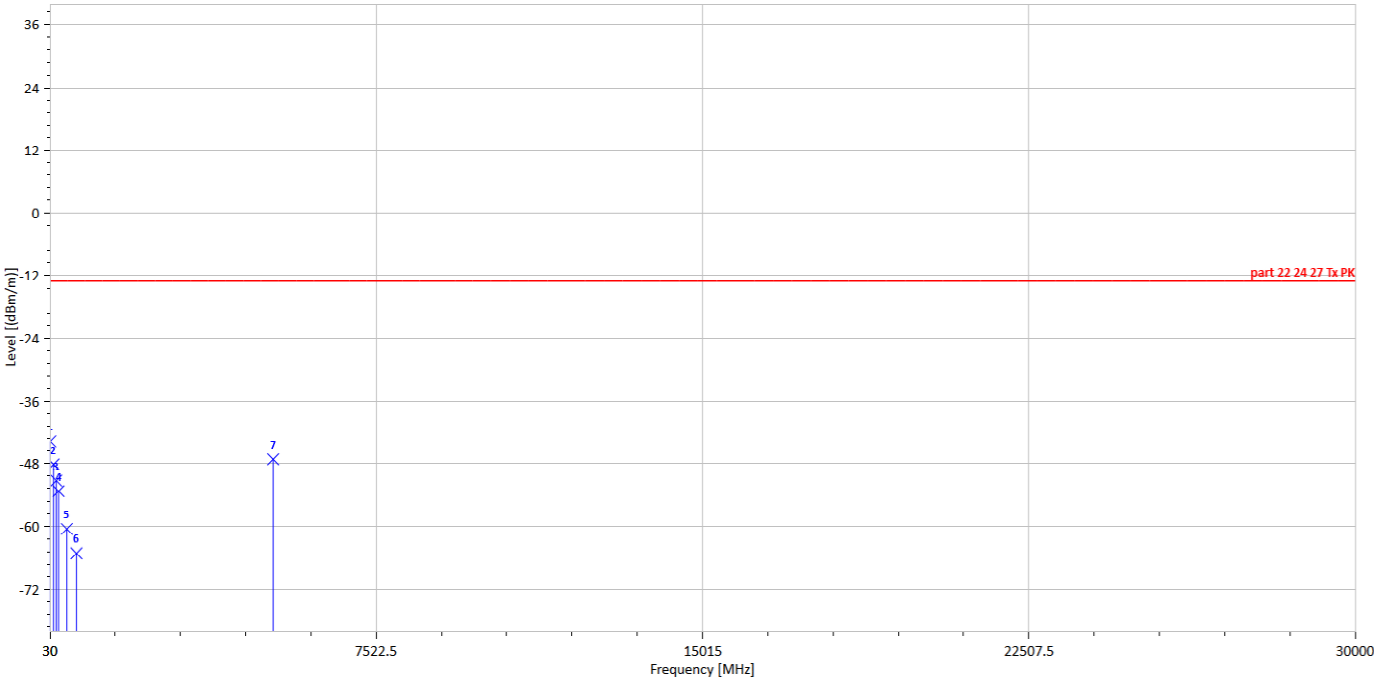
Operation Mode :	LTEB38 15M QPSK 1.74	Test Date :	2017/12/9
Fundamental Frequency :	2577.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
38.73	S	-43.68	-29.76	-13.06	-0.85	-13	-30.68
113.42	S	-48.13	-45.15	-1.51	-1.47	-13	-35.13
175.50	S	-51.24	-54.31	4.92	-1.86	-13	-38.24
228.85	S	-53.29	-57.23	6.08	-2.13	-13	-40.29
418.97	S	-60.55	-63.56	5.95	-2.95	-13	-47.55
639.16	S	-65.09	-68.55	7.13	-3.67	-13	-52.09
5155.00	H	-47.15	-49.77	12.66	-10.04	-13.01	-34.14

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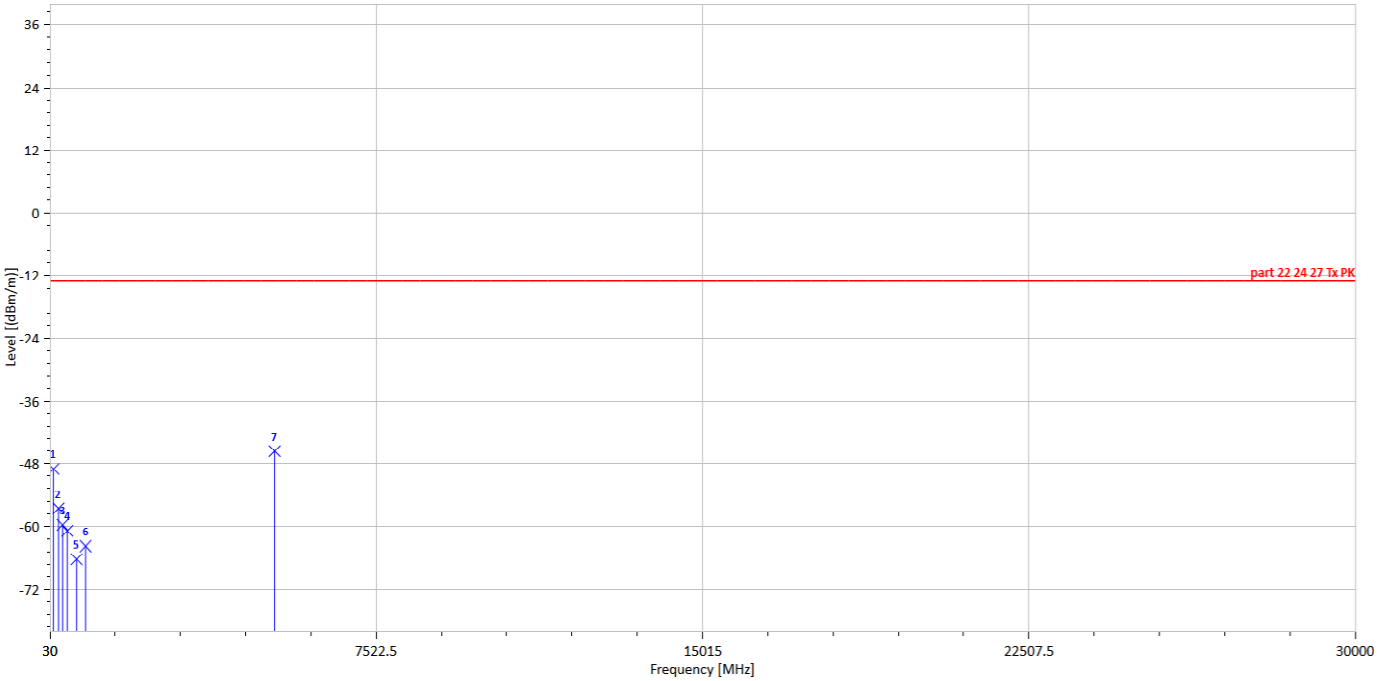
Operation Mode :	LTEB38 15M QPSK 1.74	Test Date :	2017/12/9
Fundamental Frequency :	2595 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
110.51	S	-49.02	-45.92	-1.64	-1.45	-13	-36.02
227.88	S	-56.59	-60.57	6.11	-2.13	-13	-43.59
321.00	S	-59.76	-63.11	5.91	-2.56	-13	-46.76
429.64	S	-60.92	-64.00	6.06	-2.98	-13	-47.92
642.07	S	-66.21	-69.67	7.14	-3.68	-13	-53.21
848.68	S	-63.76	-67.29	7.80	-4.27	-13	-50.76
5190.00	H	-45.58	-48.21	12.69	-10.06	-13.01	-32.57

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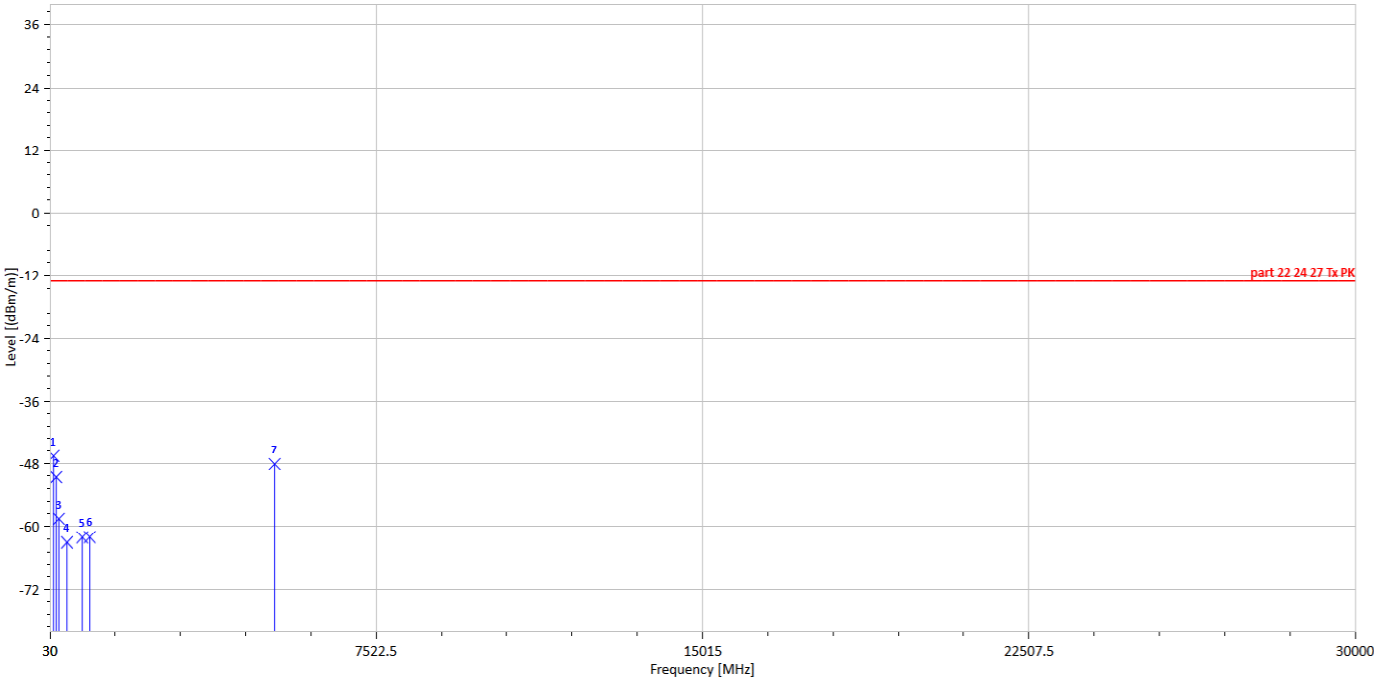
Operation Mode :	LTEB38 15M QPSK 1.74	Test Date :	2017/12/9
Fundamental Frequency :	2595 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
113.42	S	-46.50	-43.52	-1.51	-1.47	-13	-33.50
175.50	S	-50.60	-53.66	4.92	-1.86	-13	-37.60
236.61	S	-58.65	-62.24	5.76	-2.17	-13	-45.65
421.88	S	-63.06	-66.08	5.98	-2.96	-13	-50.06
773.02	S	-62.12	-65.84	7.74	-4.02	-13	-49.12
944.71	S	-62.08	-65.53	7.96	-4.51	-13	-49.08
5190.00	H	-48.02	-50.64	12.69	-10.06	-13.01	-35.01

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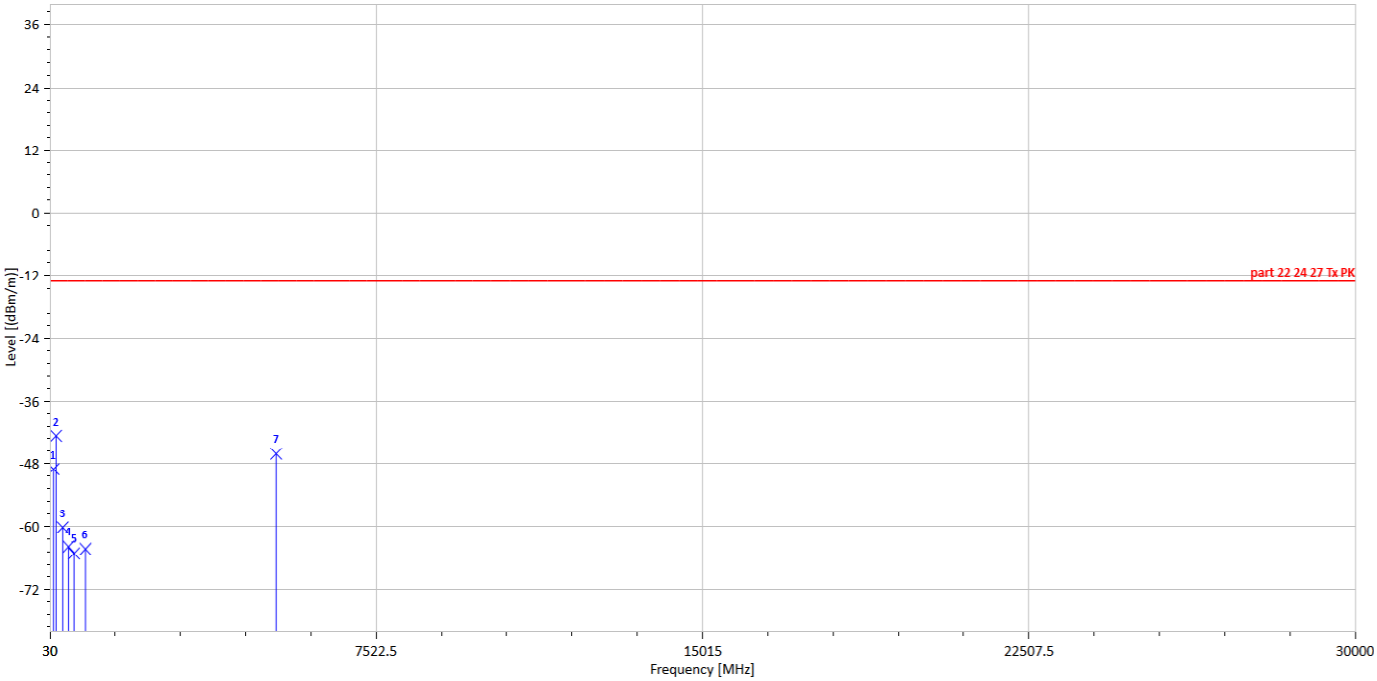
Operation Mode :	LTEB38 15M QPSK 1.74	Test Date :	2017/12/9
Fundamental Frequency :	2612.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
111.48	S	-49.05	-45.99	-1.59	-1.46	-13	-36.05
171.62	S	-42.68	-45.33	4.50	-1.84	-13	-29.68
323.91	S	-60.25	-63.59	5.92	-2.58	-13	-47.25
456.80	S	-63.87	-67.10	6.30	-3.07	-13	-50.87
582.90	S	-65.12	-68.44	6.82	-3.50	-13	-52.12
845.77	S	-64.30	-67.84	7.80	-4.26	-13	-51.30
5225.00	H	-46.08	-48.72	12.73	-10.09	-13.01	-33.07

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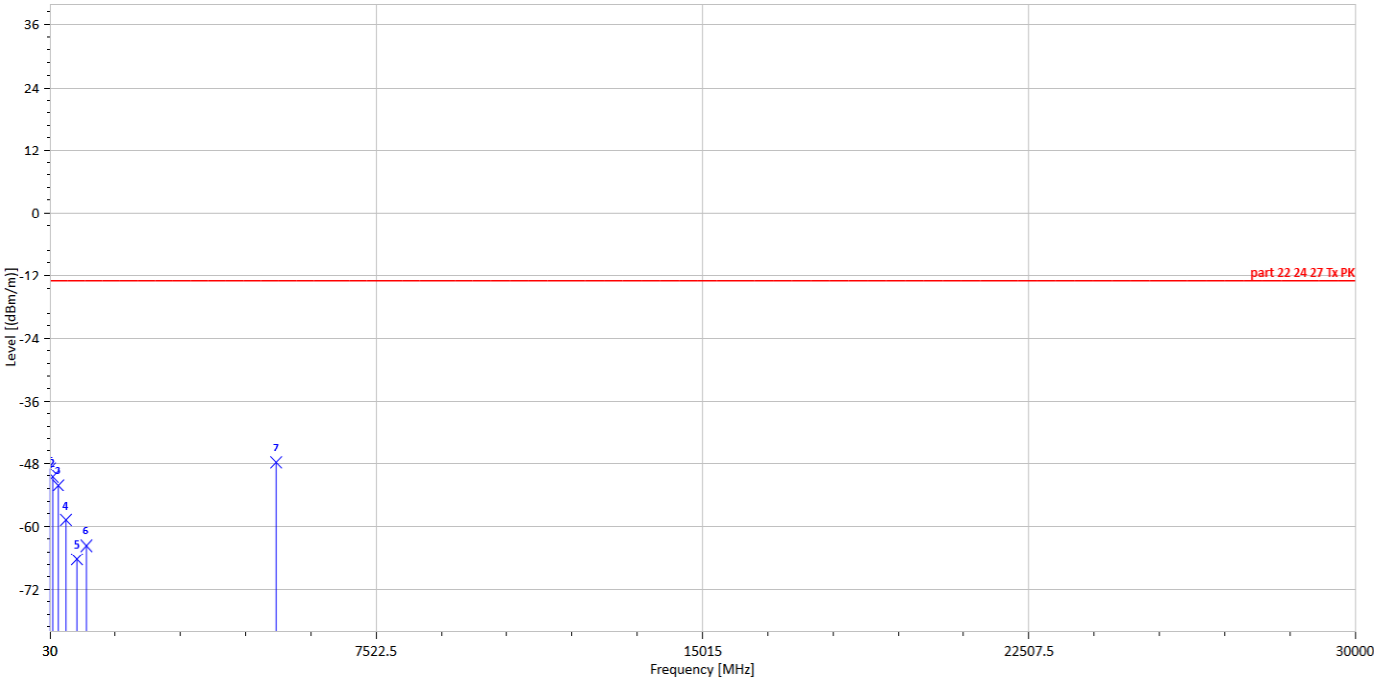
Operation Mode :	LTEB38 15M QPSK 1.74	Test Date :	2017/12/9
Fundamental Frequency :	2612.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
33.89	S	-48.86	-30.81	-17.21	-0.84	-13	-35.86
95.96	S	-50.54	-48.38	-0.81	-1.35	-13	-37.54
223.03	S	-52.16	-56.32	6.26	-2.11	-13	-39.16
398.60	S	-58.85	-61.75	5.76	-2.86	-13	-45.85
650.80	S	-66.22	-69.69	7.18	-3.70	-13	-53.22
868.08	S	-63.69	-67.19	7.83	-4.33	-13	-50.69
5225.00	H	-47.71	-50.34	12.73	-10.09	-13.01	-34.70

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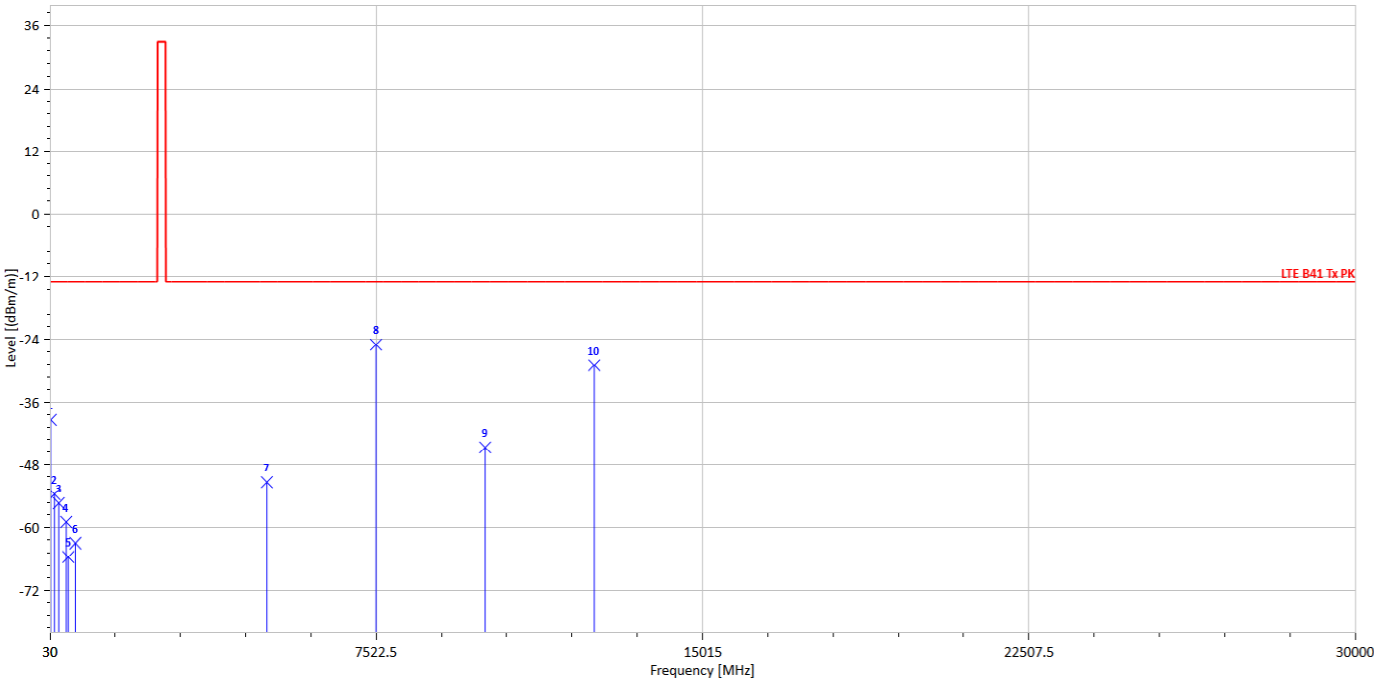
Radiated Spurious Emission Measurement Result: LTE-Band 41 (The Worst Case)

Operation Mode :	LTEB41 20M 16QAM 1.99	Test Date :	2017/11/27
Fundamental Frequency :	2506 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
49.58	S	-39.35	-33.03	-5.37	-0.95	-13	-26.35
133.68	S	-53.66	-52.10	0.05	-1.61	-13	-40.66
233.91	S	-55.37	-59.08	5.88	-2.16	-13	-42.37
404.41	S	-59.04	-61.94	5.80	-2.89	-13	-46.04
451.64	S	-65.58	-68.81	6.28	-3.05	-13	-52.58
615.23	S	-63.07	-66.49	7.03	-3.62	-13	-50.07
5012.00	H	-51.37	-53.95	12.51	-9.93	-13	-38.37
7518.00	H	-25.08	-24.81	11.30	-11.57	-13	-12.08
10024.00	H	-44.68	-43.40	11.39	-12.66	-13	-31.68
12530.00	H	-29.02	-28.49	13.68	-14.22	-13	-16.02

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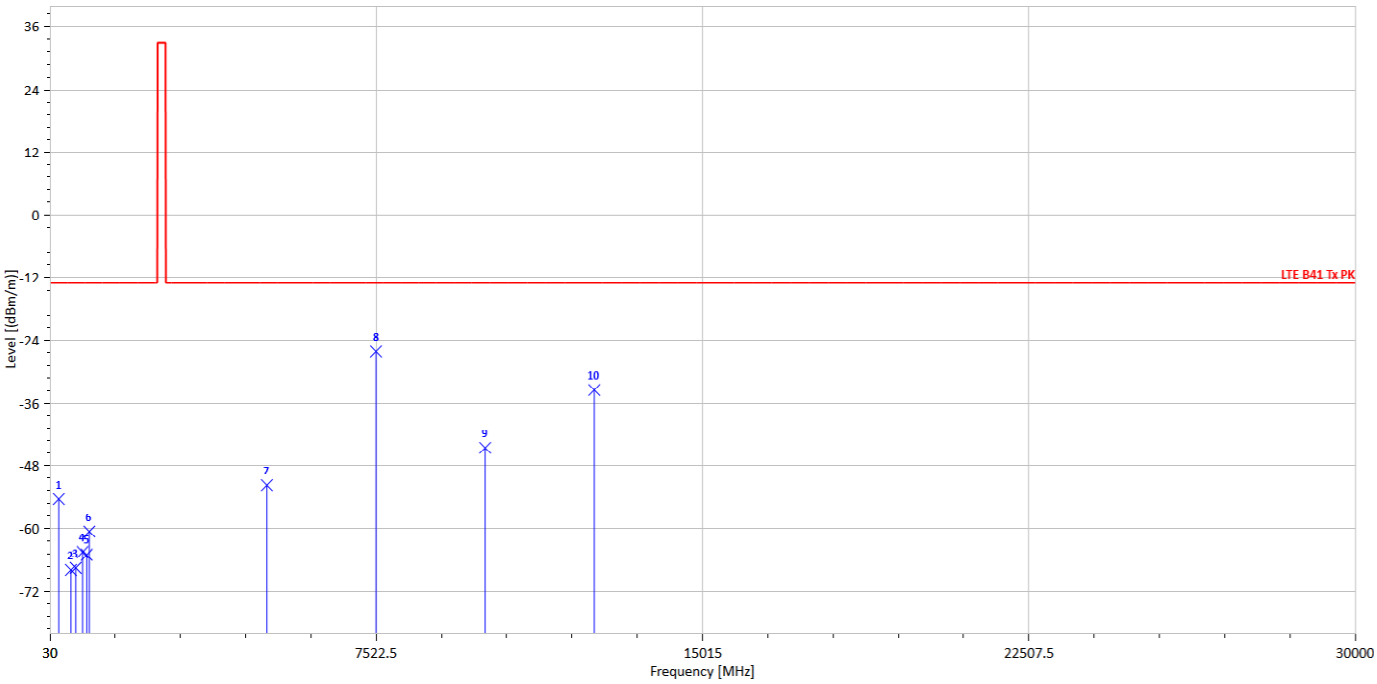
Operation Mode :	LTEB41 20M 16QAM 1.99	Test Date :	2017/11/27
Fundamental Frequency :	2506 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
233.91	S	-54.45	-58.17	5.88	-2.16	-13	-41.45
512.70	S	-67.85	-71.08	6.50	-3.27	-13	-54.85
622.14	S	-67.46	-70.88	7.06	-3.63	-13	-54.46
779.96	S	-64.49	-68.18	7.75	-4.05	-13	-51.49
875.58	S	-64.99	-68.49	7.85	-4.35	-13	-51.99
934.33	S	-60.66	-64.12	7.94	-4.48	-13	-47.66
5012.00	H	-51.73	-54.31	12.51	-9.93	-13	-38.73
7518.00	H	-26.23	-25.96	11.30	-11.57	-13	-13.23
10024.00	H	-44.56	-43.28	11.39	-12.66	-13	-31.56
12530.00	H	-33.42	-32.89	13.68	-14.22	-13	-20.42

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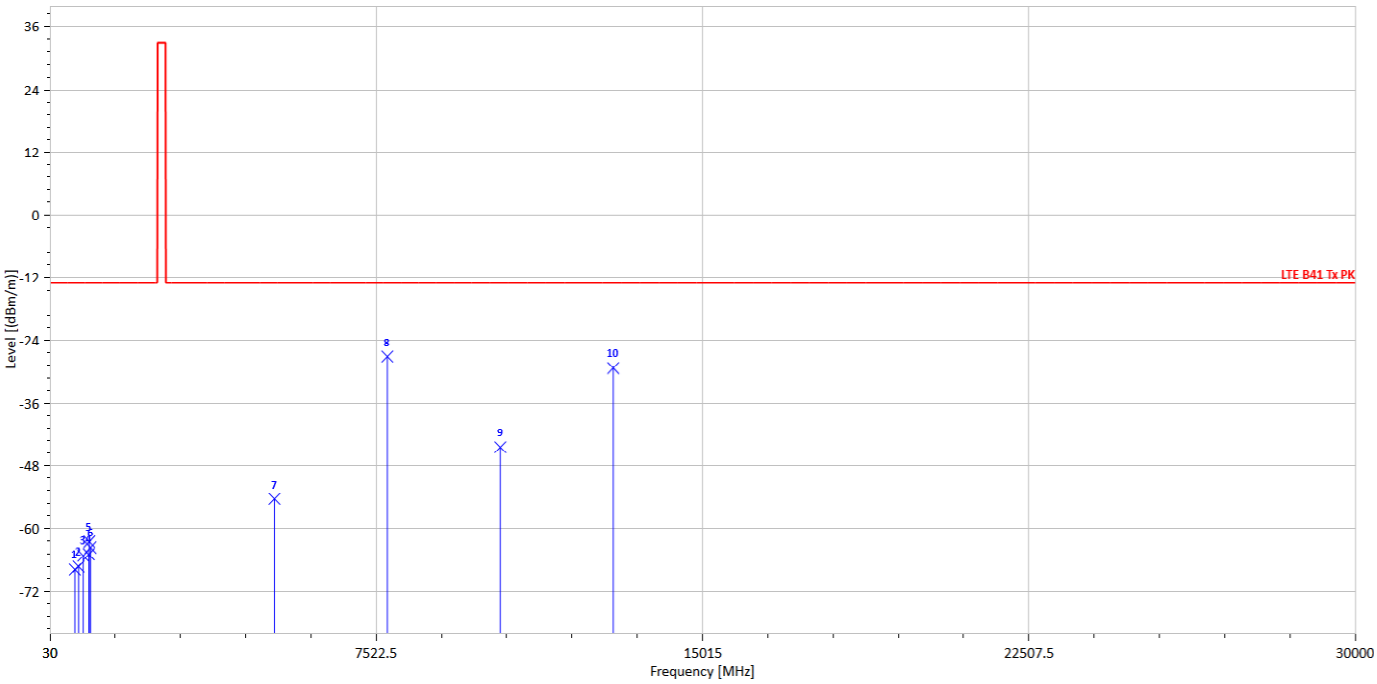
Operation Mode :	LTEB41 20M 16QAM 1.99	Test Date :	2017/11/27
Fundamental Frequency :	2593 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
603.71	S	-67.76	-71.17	6.99	-3.58	-13	-54.76
687.80	S	-67.20	-70.99	7.58	-3.79	-13	-54.20
794.94	S	-65.15	-68.82	7.77	-4.10	-13	-52.15
922.81	S	-64.90	-68.38	7.93	-4.45	-13	-51.90
934.33	S	-62.60	-66.06	7.94	-4.48	-13	-49.60
961.98	S	-63.66	-67.11	8.00	-4.56	-13	-50.66
5186.00	H	-54.39	-57.02	12.69	-10.06	-13	-41.39
7779.00	H	-27.17	-26.81	11.30	-11.66	-13	-14.17
10372.00	H	-44.44	-42.75	11.18	-12.86	-13	-31.44
12965.00	H	-29.36	-28.34	13.42	-14.45	-13	-16.36

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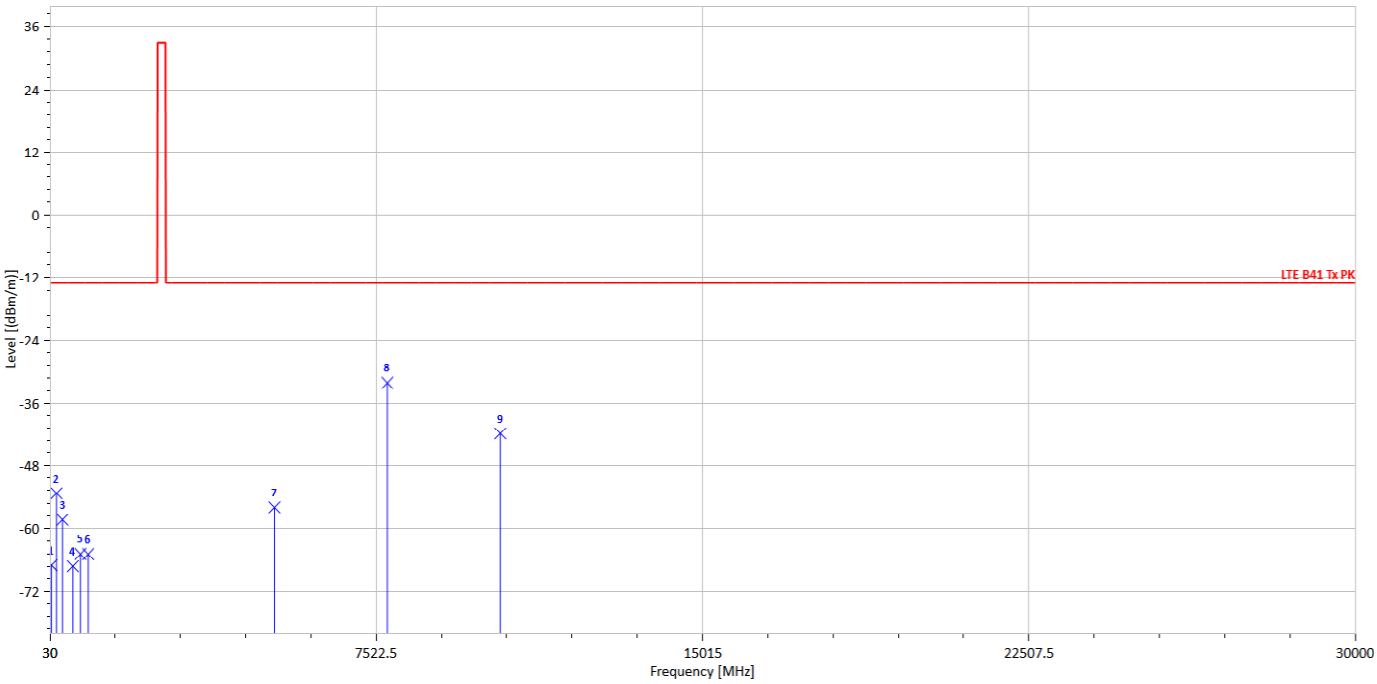
Operation Mode :	LTEB41 20M 16QAM 1.99	Test Date :	2017/11/27
Fundamental Frequency :	2593 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
64.56	S	-66.95	-65.24	-0.62	-1.09	-13	-53.95
180.91	S	-53.29	-56.87	5.46	-1.89	-13	-40.29
318.00	S	-58.39	-61.74	5.90	-2.55	-13	-45.39
556.47	S	-67.15	-70.31	6.58	-3.42	-13	-54.15
731.58	S	-64.83	-68.64	7.71	-3.90	-13	-51.83
908.99	S	-64.87	-68.35	7.91	-4.43	-13	-51.87
5186.00	H	-56.00	-58.63	12.69	-10.06	-13	-43.00
7779.00	H	-32.09	-31.73	11.30	-11.66	-13	-19.09
10372.00	H	-41.78	-40.09	11.18	-12.86	-13	-28.78

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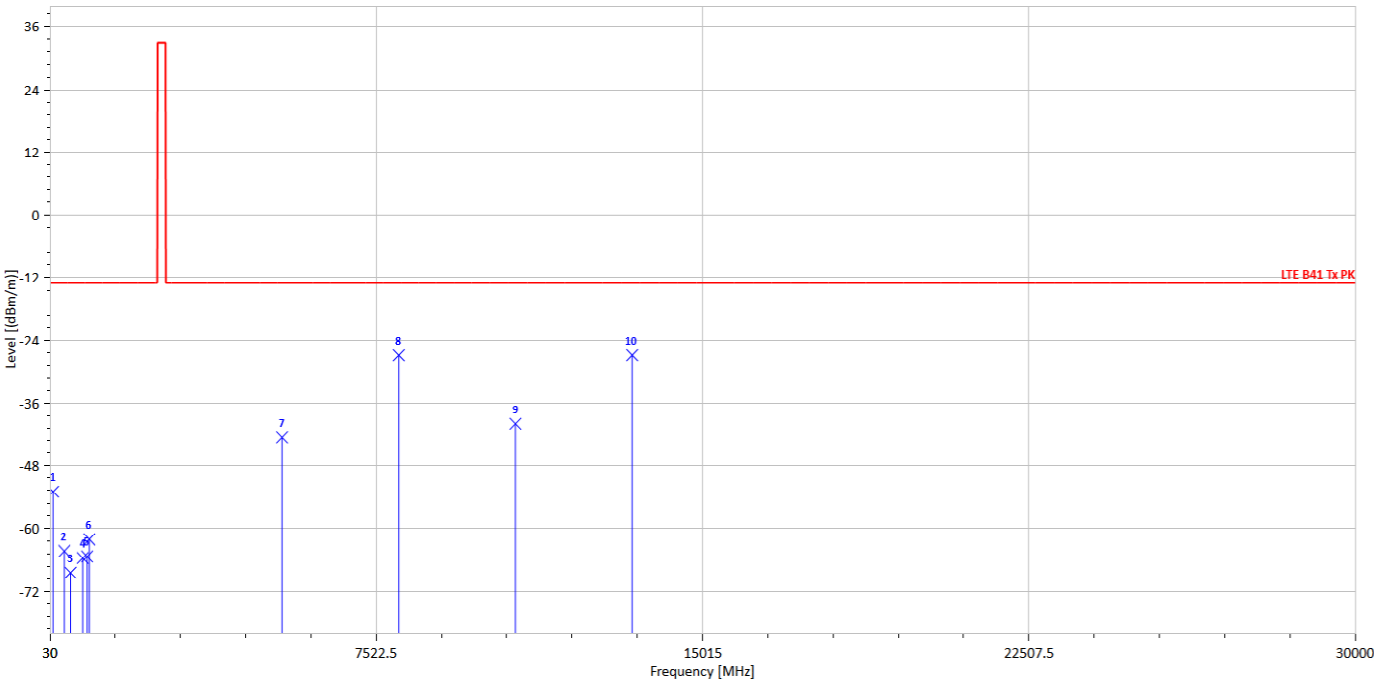
Operation Mode :	LTEB41 20M 16QAM 1.99	Test Date :	2017/11/27
Fundamental Frequency :	2680 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
100.27	S	-53.01	-50.33	-1.30	-1.38	-13	-40.01
360.63	S	-64.29	-67.52	5.94	-2.71	-13	-51.29
503.48	S	-68.40	-71.65	6.49	-3.24	-13	-55.40
783.42	S	-65.58	-69.27	7.75	-4.06	-13	-52.58
884.80	S	-65.30	-68.79	7.87	-4.37	-13	-52.30
935.49	S	-62.13	-65.58	7.94	-4.49	-13	-49.13
5360.00	H	-42.57	-45.25	12.86	-10.18	-13	-29.57
8040.00	H	-26.92	-26.53	11.36	-11.75	-13	-13.92
10720.00	H	-39.89	-37.72	10.97	-13.14	-13	-26.89
13400.00	H	-26.90	-24.96	12.76	-14.70	-13	-13.90

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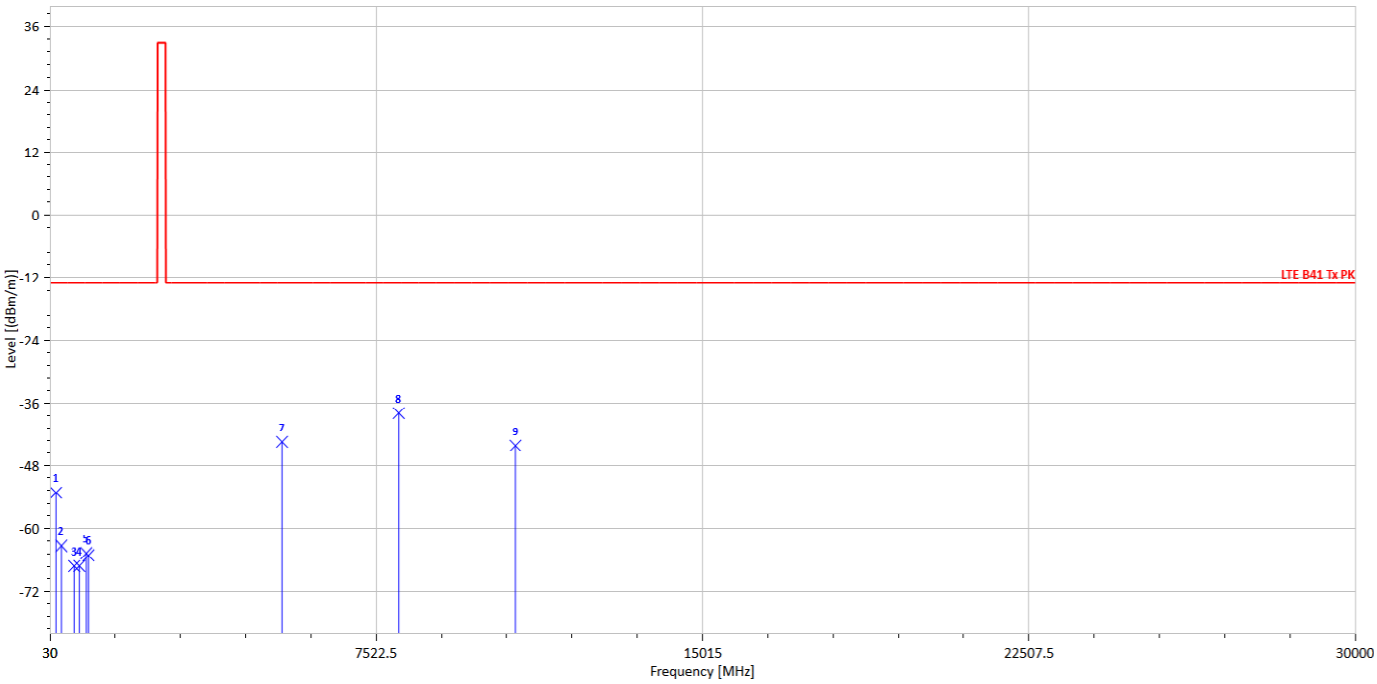
Operation Mode :	LTEB41 20M 16QAM 1.99	Test Date :	2017/11/27
Fundamental Frequency :	2680 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
169.39	S	-53.19	-55.62	4.25	-1.83	-13	-40.19
293.81	S	-63.34	-66.70	5.79	-2.44	-13	-50.34
586.43	S	-67.11	-70.44	6.85	-3.52	-13	-54.11
705.08	S	-67.08	-70.96	7.71	-3.84	-13	-54.08
865.21	S	-64.71	-68.21	7.83	-4.33	-13	-51.71
914.75	S	-65.09	-68.57	7.92	-4.43	-13	-52.09
5360.00	H	-43.39	-46.07	12.86	-10.18	-13	-30.39
8040.00	H	-37.87	-37.48	11.36	-11.75	-13	-24.87
10720.00	H	-44.12	-41.95	10.97	-13.14	-13	-31.12

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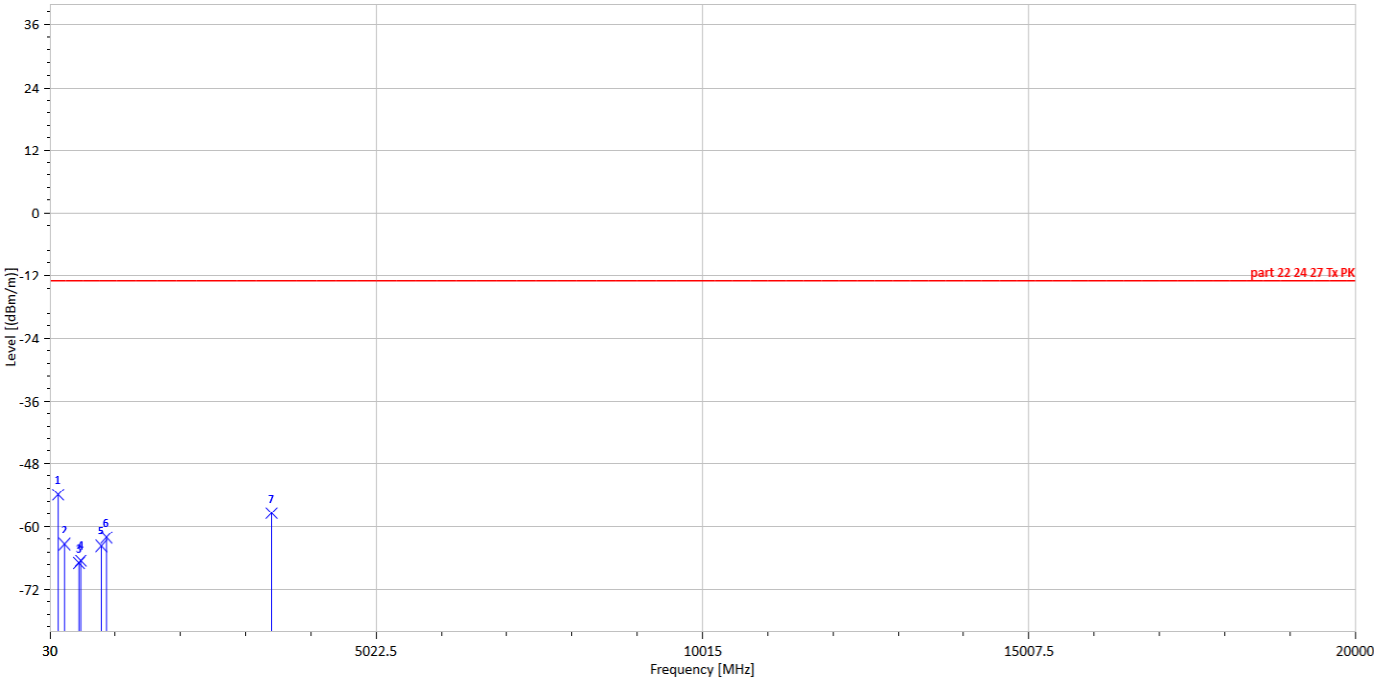
Radiated Spurious Emission Measurement Result: LTE-Band 66 (The Worst Case)

Operation Mode :	LTEB66 1.4M 16QAM 1.0	Test Date :	2017/11/25
Fundamental Frequency :	1710.7 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
155.57	S	-53.94	-54.92	2.72	-1.74	-13.01	-40.93
253.49	S	-63.38	-66.05	4.94	-2.27	-13.01	-50.37
474.68	S	-66.93	-70.18	6.38	-3.13	-13.01	-53.92
502.33	S	-66.48	-69.73	6.49	-3.24	-13.01	-53.47
816.83	S	-63.69	-67.32	7.78	-4.15	-13.01	-50.68
895.17	S	-62.15	-65.64	7.89	-4.40	-13.01	-49.14
3421.40	H	-57.51	-60.95	12.14	-8.70	-13.01	-44.50

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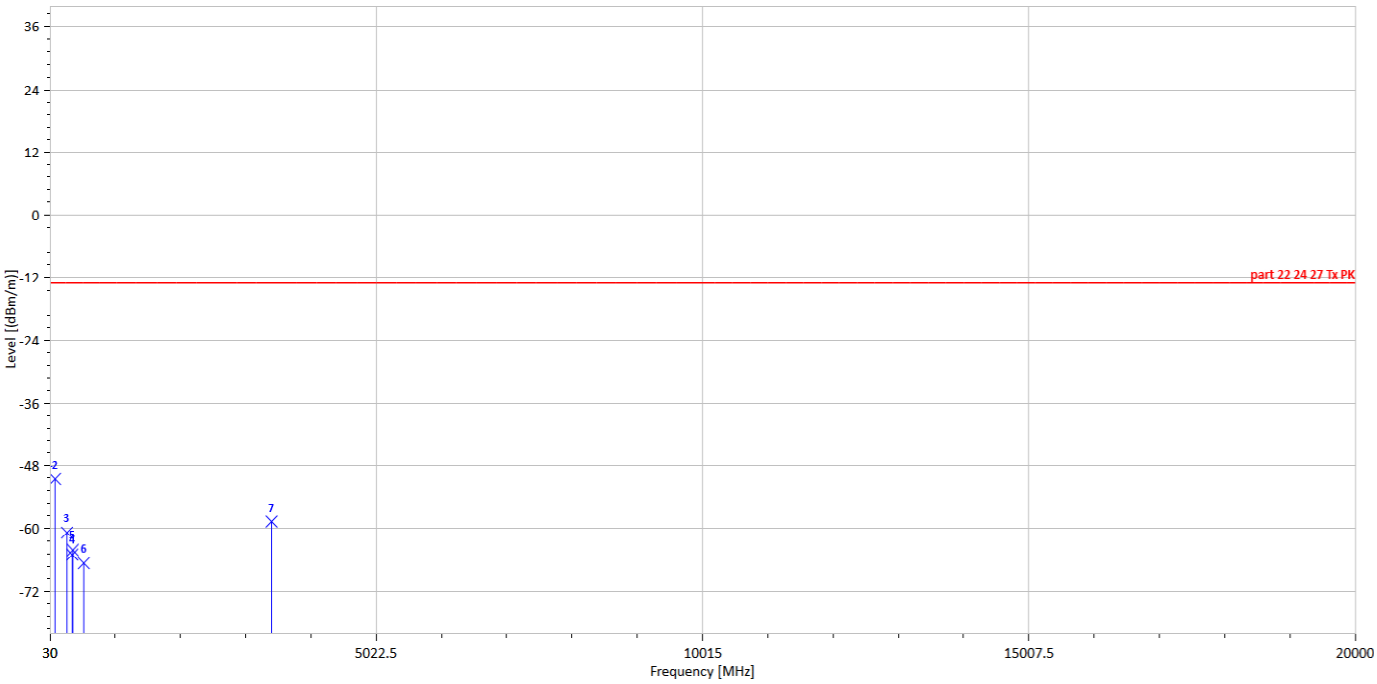
Member of SGS Group

Operation Mode :	LTEB66 1.4M 16QAM 1.0	Test Date :	2017/11/25
Fundamental Frequency :	1710.7 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
30.00	S	-50.31	-29.14	-20.35	-0.82	-13.01	-37.30
109.49	S	-50.58	-47.49	-1.64	-1.45	-13.01	-37.57
291.51	S	-60.89	-64.23	5.77	-2.43	-13.01	-47.88
372.15	S	-64.96	-68.09	5.88	-2.76	-13.01	-51.95
380.21	S	-64.10	-67.16	5.85	-2.79	-13.01	-51.09
548.41	S	-66.58	-69.69	6.52	-3.41	-13.01	-53.57
3421.40	H	-58.78	-62.22	12.14	-8.70	-13.01	-45.77

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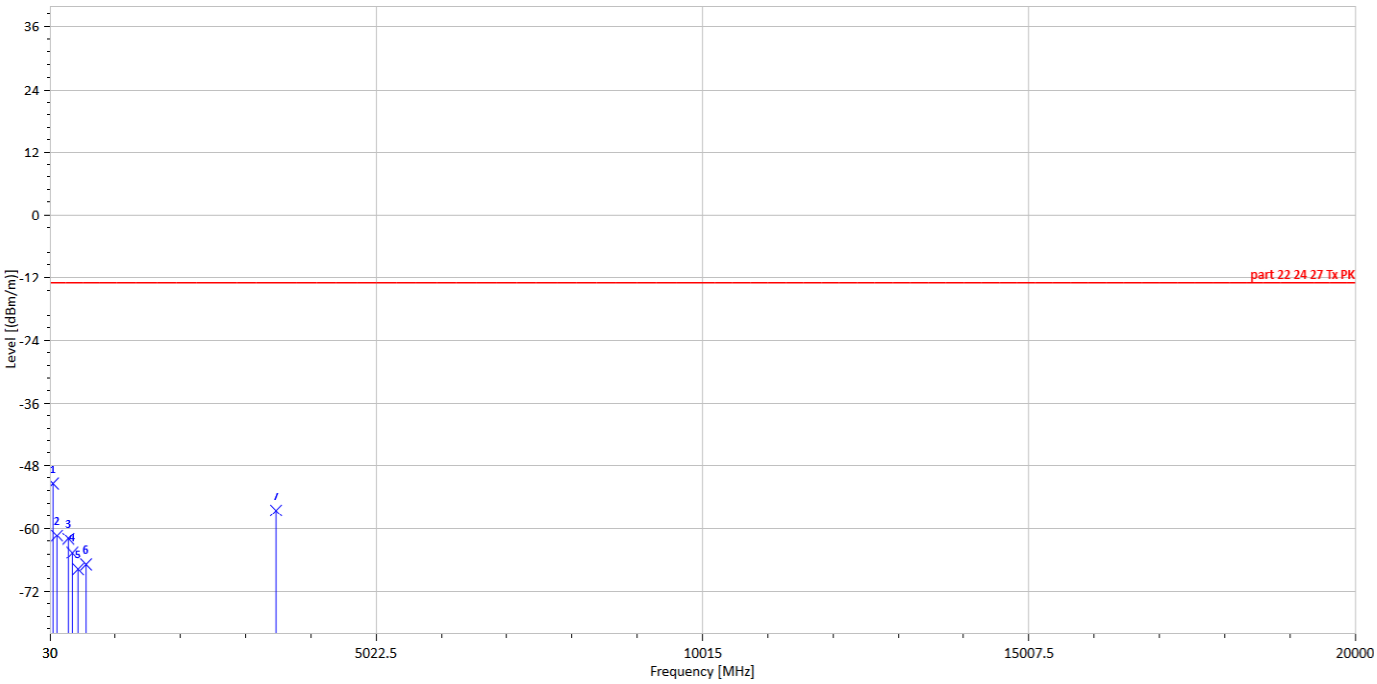
Operation Mode :	LTEB66 1.4M 16QAM 1.0	Test Date :	2017/11/25
Fundamental Frequency :	1745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
77.23	S	-51.42	-50.60	0.37	-1.20	-13.01	-38.41
138.29	S	-61.43	-60.42	0.62	-1.64	-13.01	-48.42
312.24	S	-62.02	-65.38	5.89	-2.52	-13.01	-49.01
373.30	S	-64.59	-67.71	5.88	-2.76	-13.01	-51.58
460.86	S	-67.71	-70.94	6.32	-3.08	-13.01	-54.70
582.97	S	-66.84	-70.16	6.82	-3.50	-13.01	-53.83
3490.00	H	-56.63	-60.16	12.28	-8.75	-13.01	-43.62

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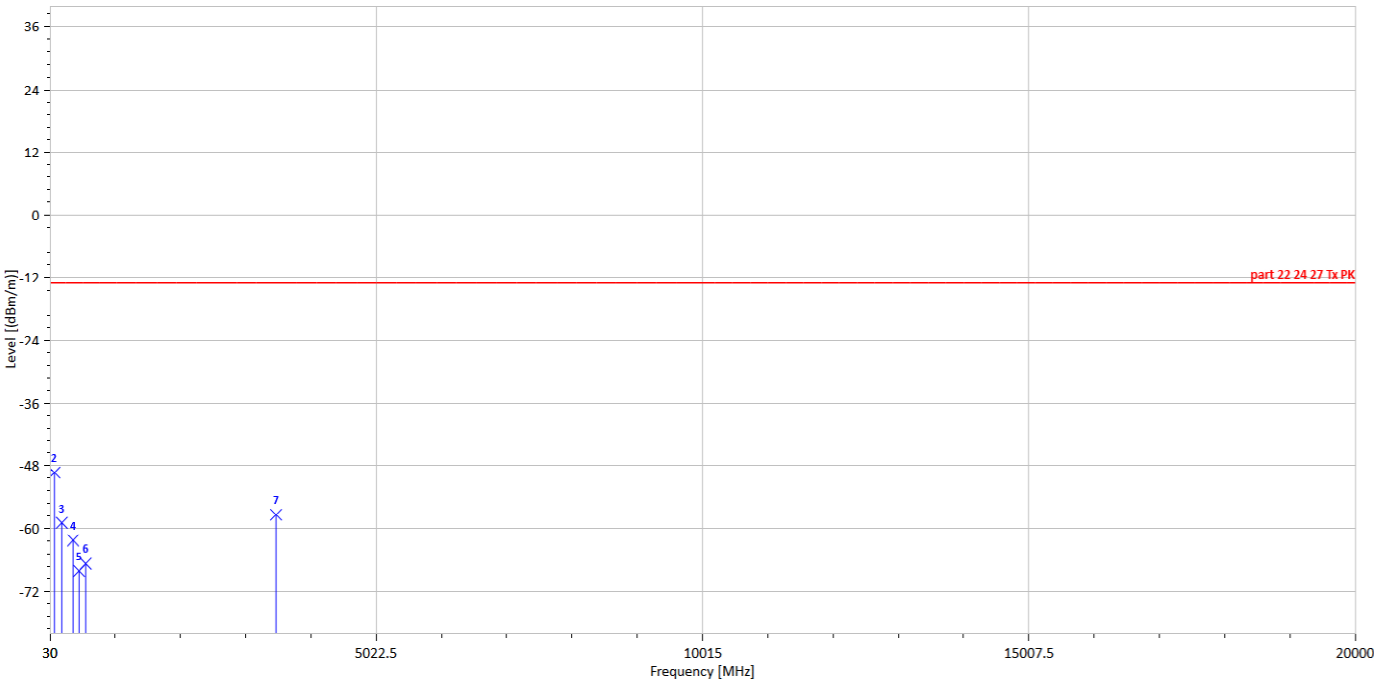
Operation Mode :	LTEB66 1.4M 16QAM 1.0	Test Date :	2017/11/25
Fundamental Frequency :	1745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
30.00	S	-50.99	-29.83	-20.35	-0.82	-13.01	-37.98
99.12	S	-49.32	-46.76	-1.19	-1.37	-13.01	-36.31
212.02	S	-58.98	-63.05	6.12	-2.05	-13.01	-45.97
384.82	S	-62.32	-65.33	5.82	-2.81	-13.01	-49.31
475.83	S	-68.04	-71.29	6.39	-3.13	-13.01	-55.03
577.21	S	-66.67	-69.95	6.77	-3.48	-13.01	-53.66
3490.00	H	-57.44	-60.97	12.28	-8.75	-13.01	-44.43

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