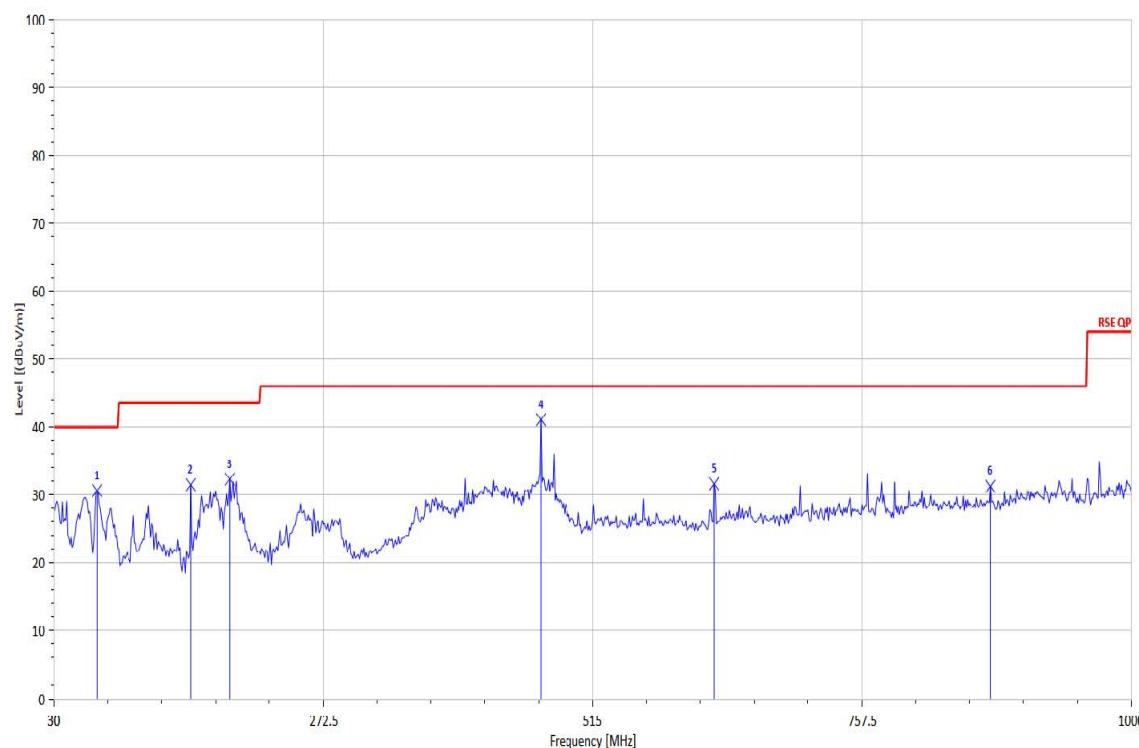


Below 1GHz Worst-Case Data:**Radiated Spurious Emission Measurement Result (802.11 g)**

Operation Mode : 802.11g Test Date : 2018/1/26
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 23.5deg_C/50RH
 Operation Band : TX CH LOW Test Engineer : Ashton
 Measurement Antenna
 EUT Pol. : E2 Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
68.80	S	Peak		52.59	-21.95	30.64	40	-9.36
153.19	S	Peak		48.38	-16.88	31.50	43.5	-12.00
188.11	S	Peak		50.75	-18.42	32.33	43.5	-11.17
468.44	S	Peak		48.75	-7.66	41.09	46	-4.91
624.61	S	Peak		37.74	-6.11	31.63	46	-14.37
872.93	S	Peak		33.95	-2.68	31.27	46	-14.73

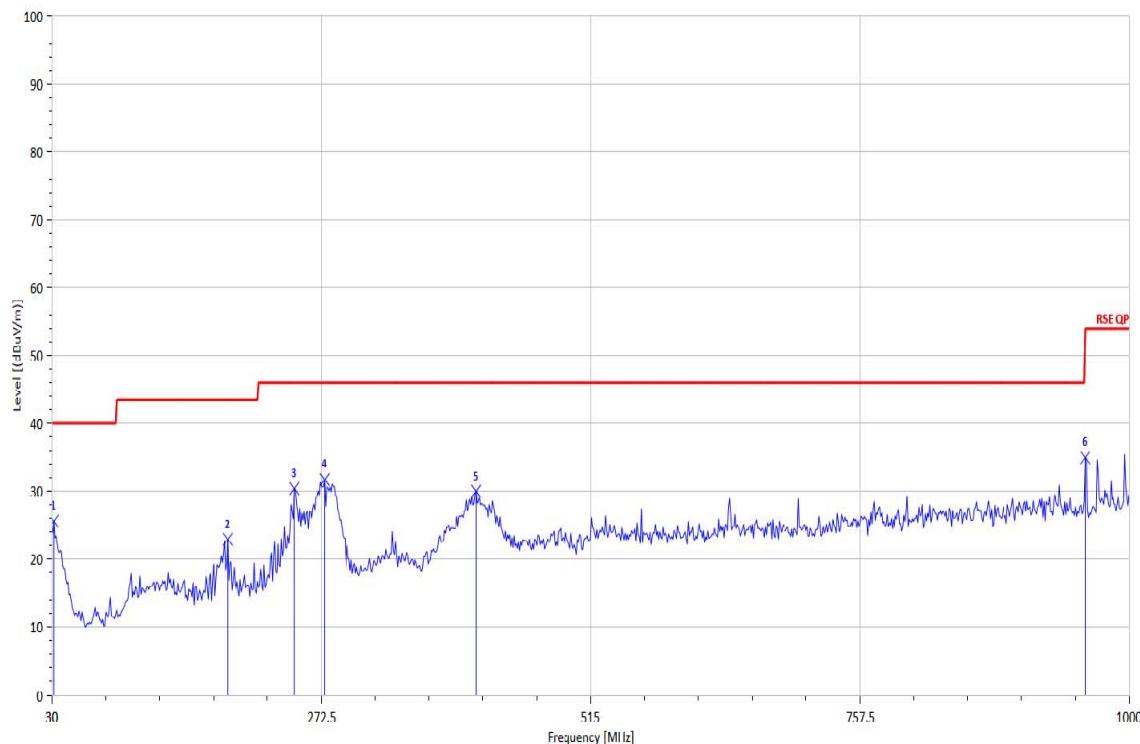
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Operation Mode : 802.11g Test Date : 2018/1/26
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 23.5deg_C/50RH
 Operation Band : TX CH LOW Test Engineer : Ashton
 Measurement Antenna
 EUT Pol. : E2 Pol. : Horizontal



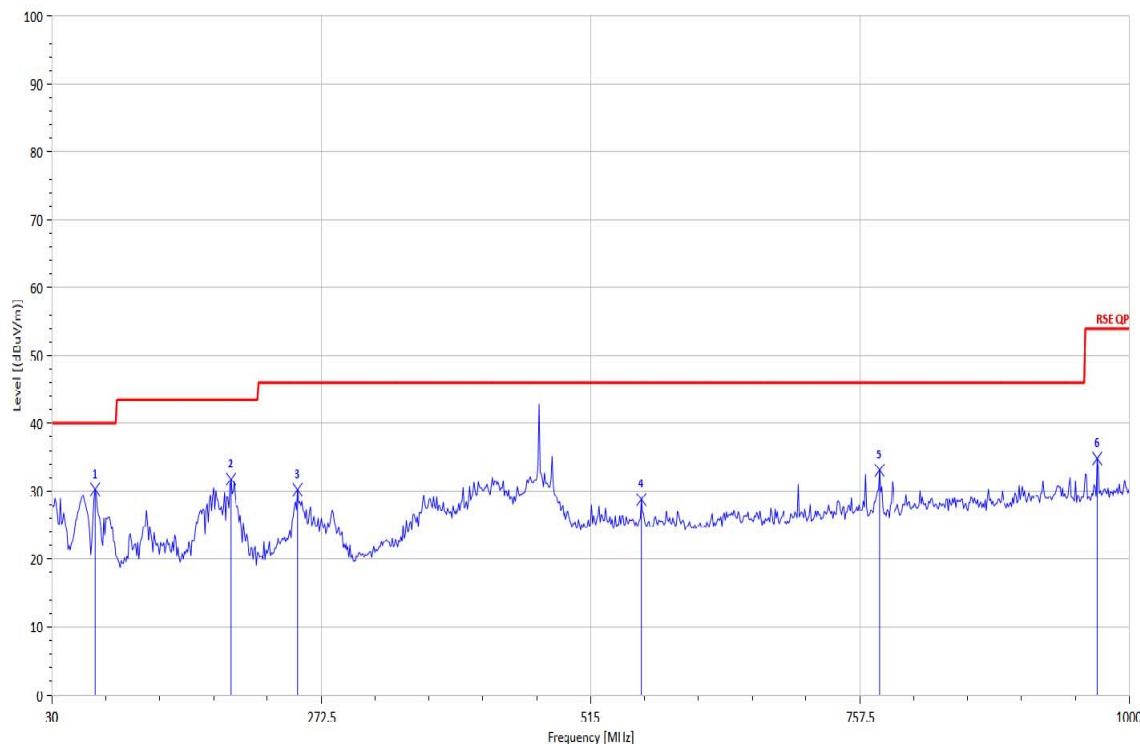
Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
			PK/QP/AV	Reading Level dBµV				
31.94	S	Peak	33.83	-8.23	25.60	40	-14.40	
188.11	S	Peak	41.37	-18.42	22.95	43.5	-20.55	
248.25	S	Peak	45.12	-14.70	30.42	46	-15.58	
275.41	S	Peak	45.47	-13.73	31.74	46	-14.26	
412.18	S	Peak	39.41	-9.38	30.03	46	-15.97	
960.23	S	Peak	37.20	-2.23	34.97	54	-19.03	

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Operation Mode : 802.11g Test Date : 2018/1/26
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 23.5deg_C/50RH
 Operation Band : TX CH MID Test Engineer : Ashton
 Measurement Antenna
 EUT Pol. : E2 Pol. : Vertical



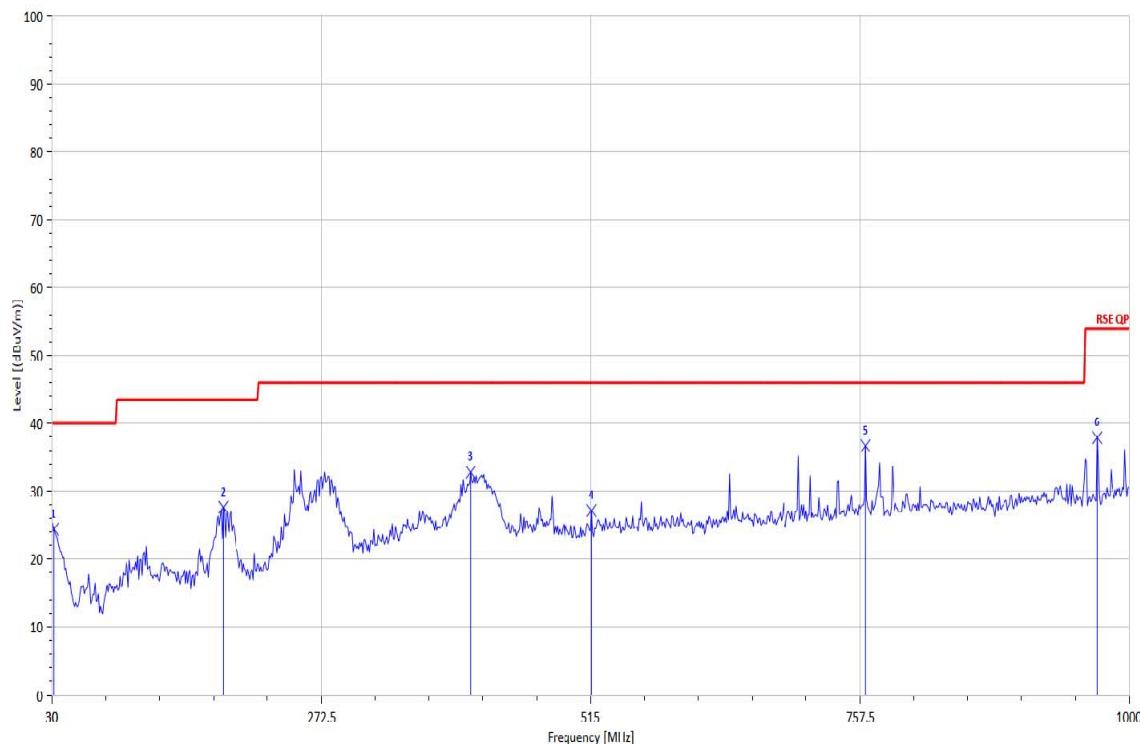
Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
			PK/QP/AV	Reading Level dBµV				
68.80	S	Peak	52.27	-21.95	30.32	40	-9.68	
191.02	S	Peak	50.00	-18.21	31.79	43.5	-11.71	
251.16	S	Peak	44.73	-14.48	30.25	46	-15.75	
560.59	S	Peak	35.47	-6.65	28.82	46	-17.18	
774.96	S	Peak	37.88	-4.75	33.13	46	-12.87	
970.90	S	Peak	36.40	-1.57	34.83	54	-19.17	

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Operation Mode : 802.11g Test Date : 2018/1/26
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 23.5deg_C/50RH
 Operation Band : TX CH MID Test Engineer : Ashton
 Measurement Antenna
 EUT Pol. : E2 Pol. : Horizontal



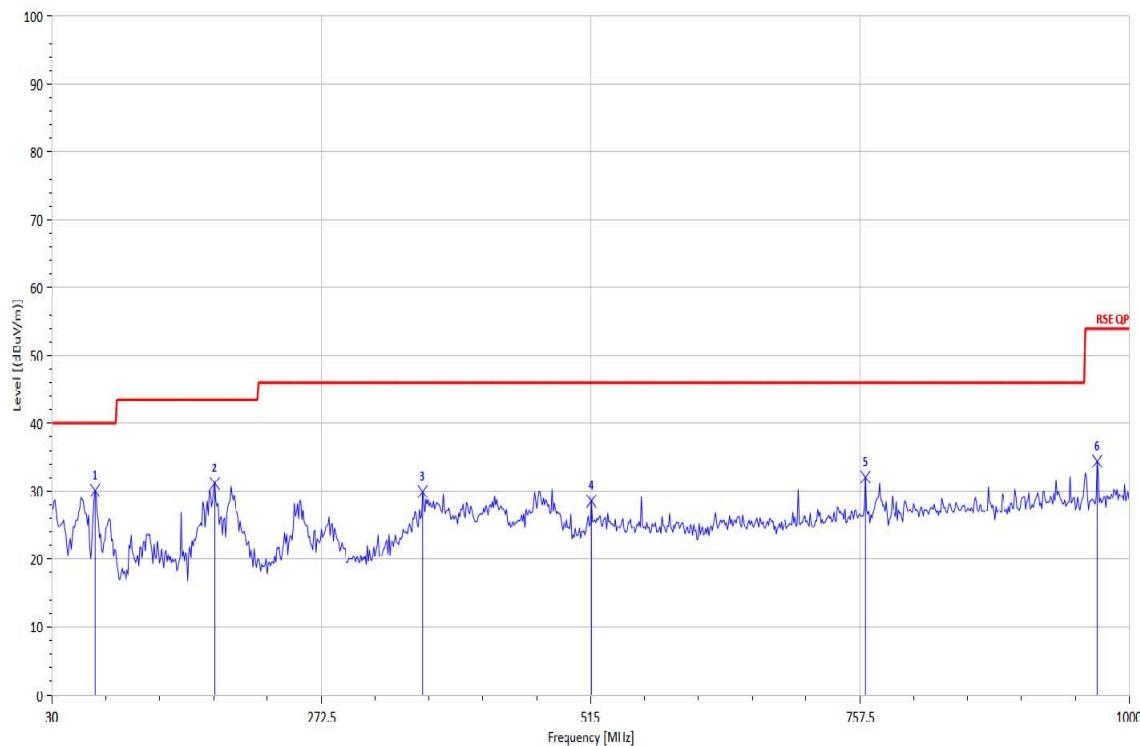
Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	Reading Level dB μ V				
31.94	S	Peak	32.69	-8.23	24.46	40	-15.54	
184.23	S	Peak	46.12	-18.46	27.66	43.5	-15.84	
407.33	S	Peak	41.99	-9.16	32.83	46	-13.17	
515.97	S	Peak	34.85	-7.67	27.18	46	-18.82	
762.35	S	Peak	40.88	-4.17	36.71	46	-9.29	
970.90	S	Peak	39.48	-1.57	37.91	54	-16.09	

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Operation Mode : 802.11g Test Date : 2018/1/26
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 23.5deg_C/50RH
 Operation Band : TX CH HIGH Test Engineer : Ashton
 Measurement Antenna
 EUT Pol. : E2 Pol. : Vertical



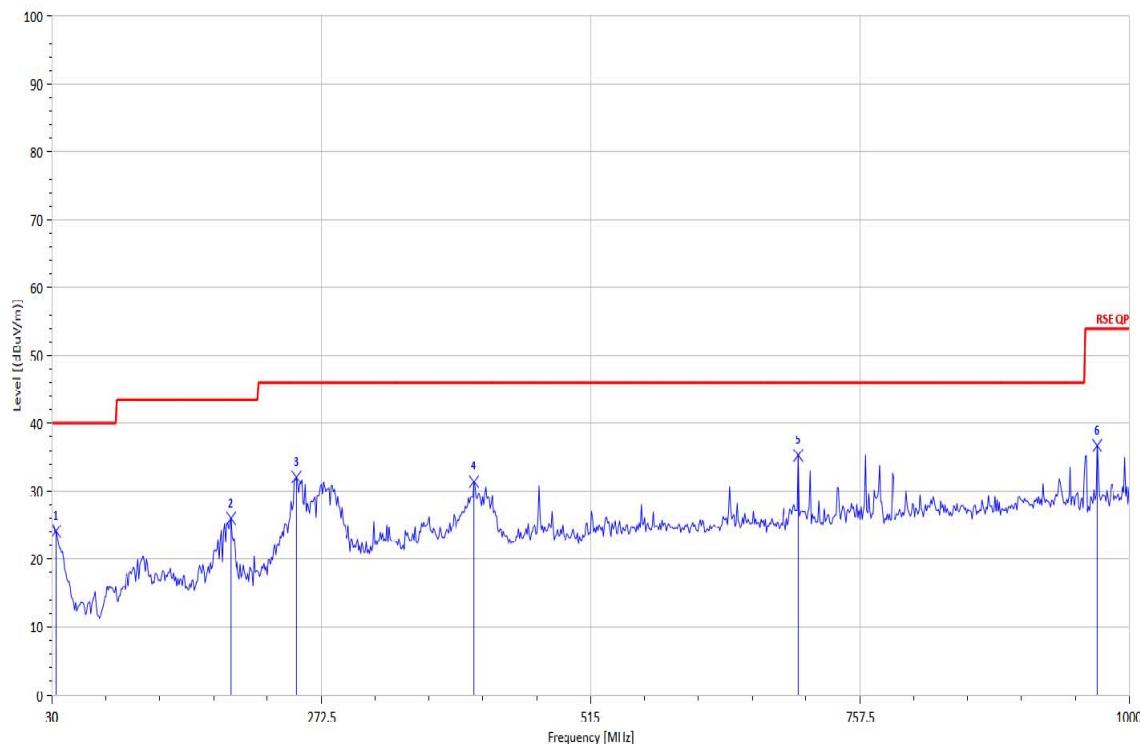
Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
			PK/QP/AV	Reading Level dBµV				
68.80	S	Peak	52.07	-21.95	30.12	40	-9.88	
176.47	S	Peak	49.71	-18.52	31.19	43.5	-12.31	
363.68	S	Peak	40.91	-10.95	29.96	46	-16.04	
515.97	S	Peak	36.26	-7.67	28.59	46	-17.41	
762.35	S	Peak	36.25	-4.17	32.08	46	-13.92	
970.90	S	Peak	36.01	-1.57	34.44	54	-19.56	

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Operation Mode : 802.11g Test Date : 2018/1/26
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 23.5deg_C/50RH
 Operation Band : TX CH HIGH Test Engineer : Ashton
 Measurement Antenna
 EUT Pol. : E2 Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
			PK/QP/AV	Reading Level dBµV				
33.88	S	Peak	33.43	33.43	-9.27	24.16	40	-15.84
191.02	S	Peak	44.24	44.24	-18.21	26.03	43.5	-17.47
250.19	S	Peak	46.68	46.68	-14.58	32.10	46	-13.90
410.24	S	Peak	40.61	40.61	-9.17	31.44	46	-14.56
702.21	S	Peak	40.61	40.61	-5.30	35.31	46	-10.69
970.90	S	Peak	38.32	38.32	-1.57	36.75	54	-17.25

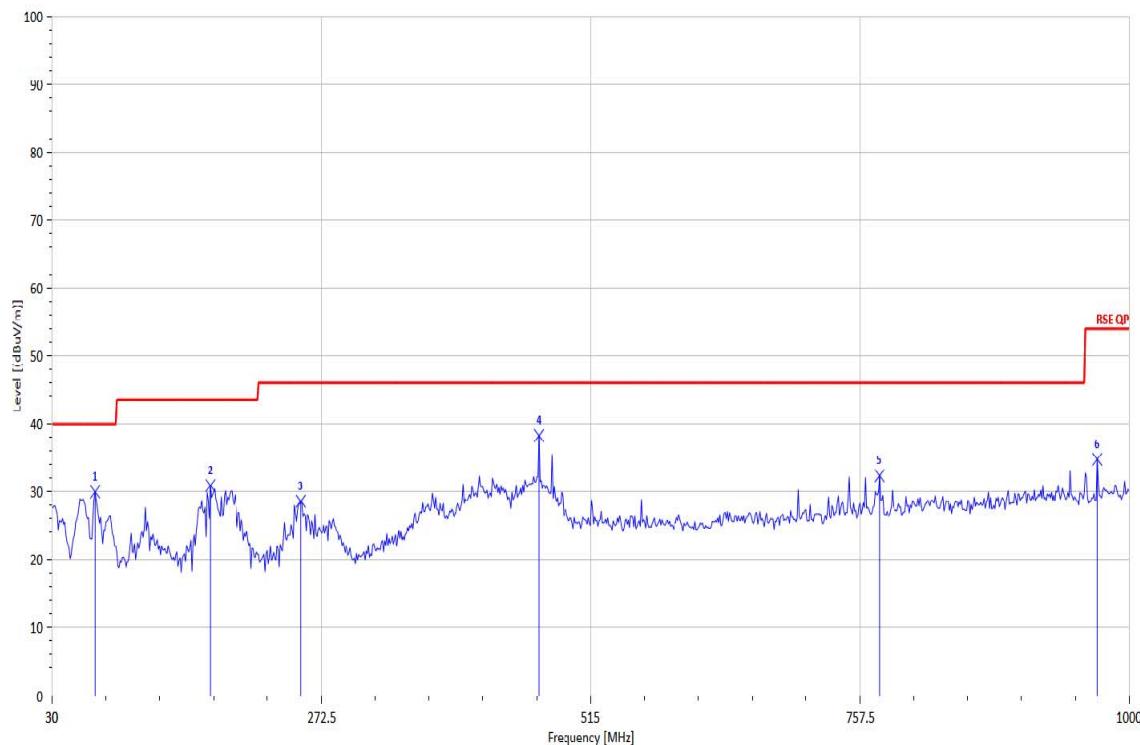
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Radiated Spurious Emission Measurement Result (802.11n_40M) below 1GHz

Operation Mode : 802.11n40 Test Date : 2018/1/26
 Fundamental Frequency : 2422 MHz Temp. / Humi. : 23.5deg_C/50RH
 Operation Band : TX CH LOW Test Engineer : Ashton
 EUT Pol. : E2 Pol. : Vertical



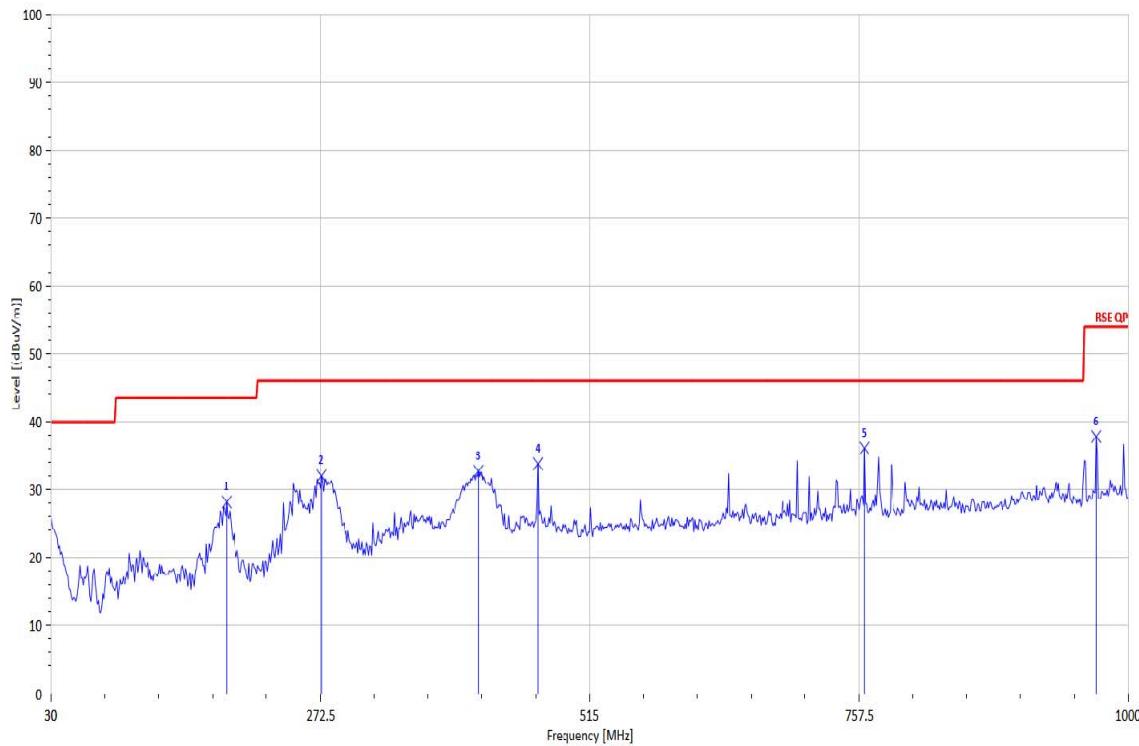
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
68.80	S	Peak	51.95	-21.95	30.00	40	-10.00
172.59	S	Peak	49.28	-18.37	30.91	43.5	-12.59
254.07	S	Peak	42.95	-14.33	28.62	46	-17.38
468.44	S	Peak	45.91	-7.66	38.25	46	-7.75
774.96	S	Peak	37.11	-4.75	32.36	46	-13.64
970.90	S	Peak	36.36	-1.57	34.79	54	-19.21

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Operation Mode : 802.11n40 Test Date : 2018/1/26
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 23.5deg_C/50RH
 Operation Band : TX CH LOW Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor dB	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
188.11	S	Peak	46.62	-18.42	28.20	43.5	-15.30
273.47	S	Peak	45.85	-13.82	32.03	46	-13.97
415.09	S	Peak	41.84	-9.12	32.72	46	-13.28
468.44	S	Peak	41.48	-7.66	33.82	46	-12.18
762.35	S	Peak	40.28	-4.17	36.11	46	-9.89
970.90	S	Peak	39.39	-1.57	37.82	54	-16.18

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Operation Mode : 802.11n40 Test Date : 2018/1/26
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 23.5deg_C/50RH
 Operation Band : TX CH MID Test Engineer : Ashton
 Measurement Antenna
 EUT Pol. : E2 Pol. : Vertical



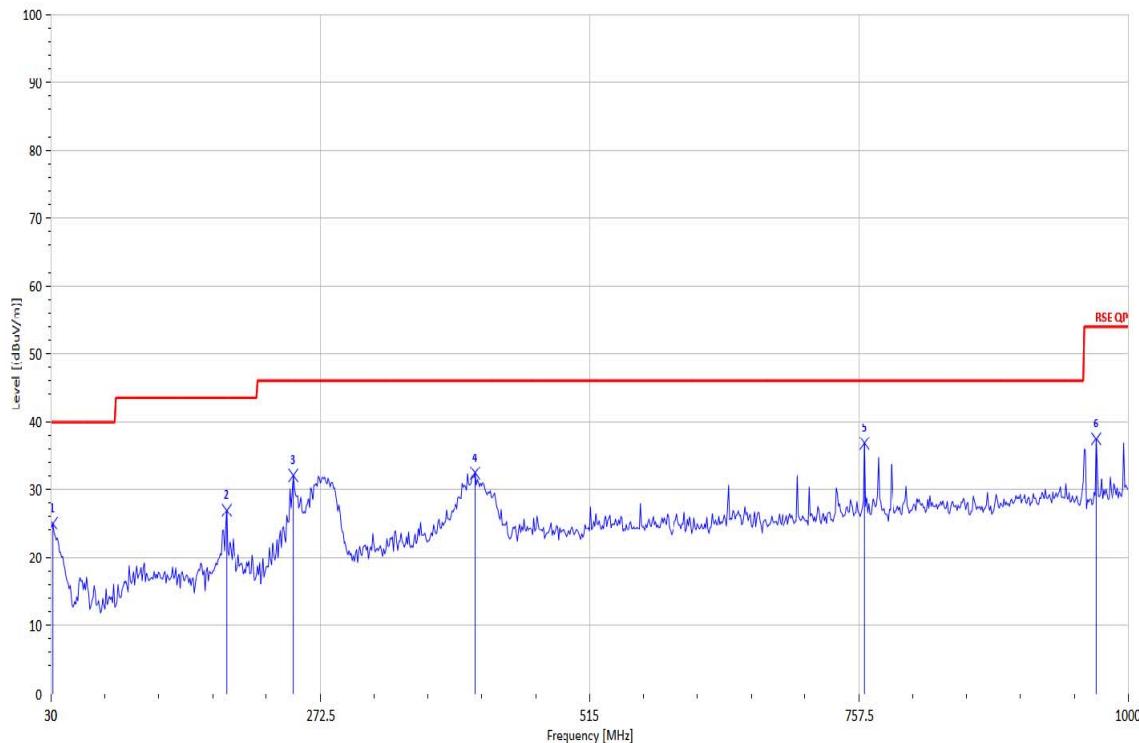
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
56.19	S	Peak	50.30	-21.58	28.72	40	-11.28
193.93	S	Peak	47.39	-17.94	29.45	43.5	-14.05
252.13	S	Peak	42.85	-14.46	28.39	46	-17.61
468.44	S	Peak	47.62	-7.66	39.96	46	-6.04
702.21	S	Peak	36.11	-5.30	30.81	46	-15.19
970.90	S	Peak	34.84	-1.57	33.27	54	-20.73

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Operation Mode : 802.11n40 Test Date : 2018/1/26
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 23.5deg_C/50RH
 Operation Band : TX CH MID Test Engineer : Ashton
 Measurement Antenna
 EUT Pol. : E2 Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
31.94	S	Peak	33.26	-8.23	25.03	40	-14.97
188.11	S	Peak	45.38	-18.42	26.96	43.5	-16.54
248.25	S	Peak	46.81	-14.70	32.11	46	-13.89
412.18	S	Peak	41.85	-9.38	32.47	46	-13.53
762.35	S	Peak	41.02	-4.17	36.85	46	-9.15
970.90	S	Peak	39.07	-1.57	37.50	54	-16.50

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Operation Mode : 802.11n40 Test Date : 2018/1/26
 Fundamental Frequency : 2452 MHz Temp. / Humi. : 23.5deg_C/50RH
 Operation Band : TX CH HIGH Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



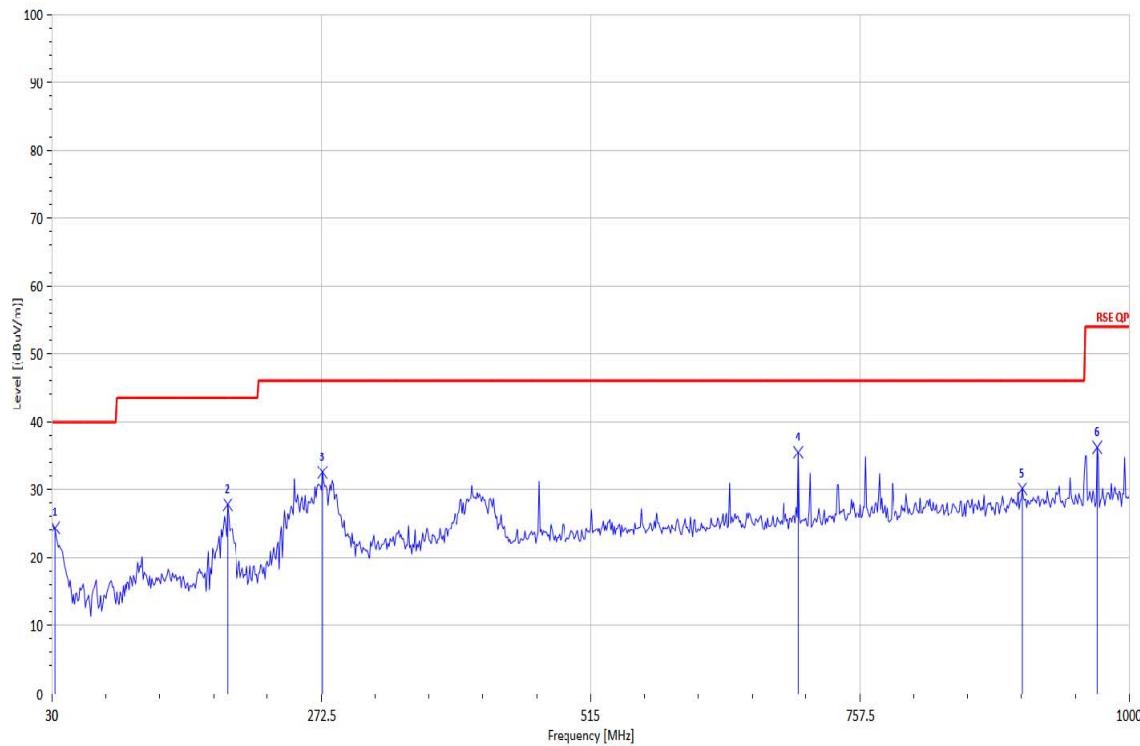
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
69.77	S	Peak	52.27	-21.79	30.48	40	-9.52
188.11	S	Peak	49.09	-18.42	30.67	43.5	-12.83
468.44	S	Peak	43.90	-7.66	36.24	46	-9.76
702.21	S	Peak	37.02	-5.30	31.72	46	-14.28
762.35	S	Peak	38.05	-4.17	33.88	46	-12.12
970.90	S	Peak	36.22	-1.57	34.65	54	-19.35

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Operation Mode : 802.11n40 Test Date : 2018/1/26
 Fundamental Frequency : 2452 MHz Temp. / Humi. : 23.5deg_C/50RH
 Operation Band : TX CH HIGH Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
32.91	S	Peak	33.13	-8.74	24.39	40	-15.61
188.11	S	Peak	46.25	-18.42	27.83	43.5	-15.67
273.47	S	Peak	46.40	-13.82	32.58	46	-13.42
702.21	S	Peak	40.81	-5.30	35.51	46	-10.49
903.97	S	Peak	31.96	-1.80	30.16	46	-15.84
970.90	S	Peak	37.81	-1.57	36.24	54	-17.76

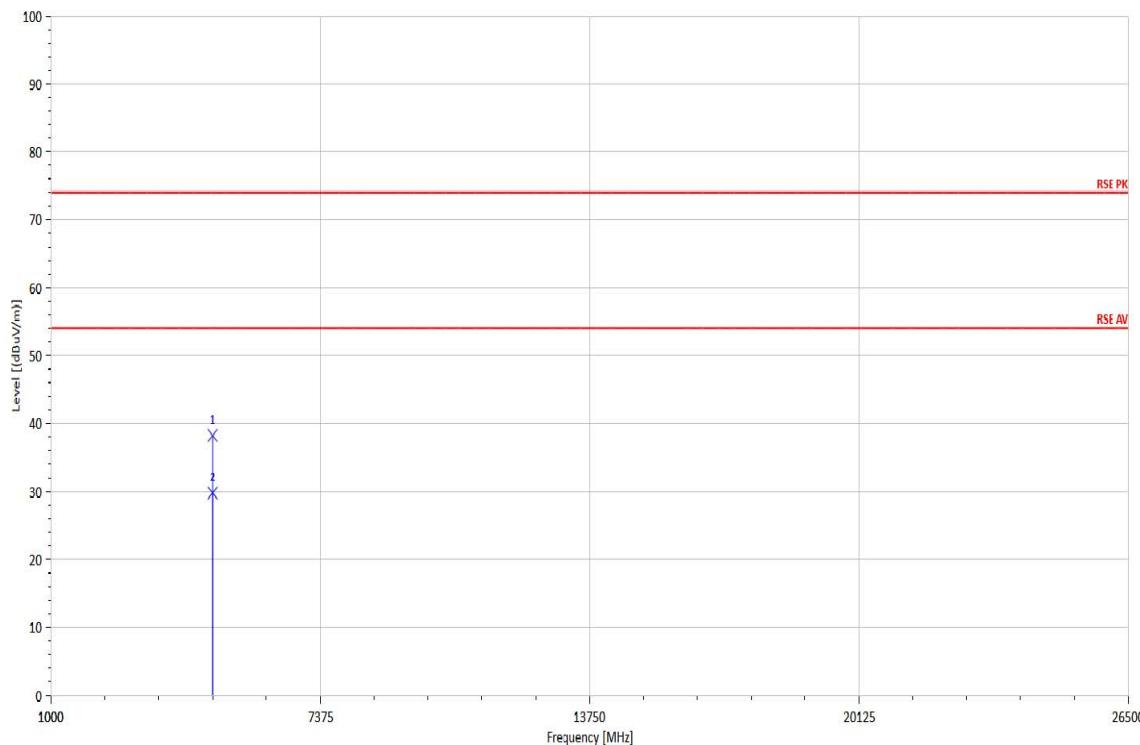
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Radiated Spurious Emission Measurement Result (802.11b) above 1GHz

Operation Mode : 802.11b Test Date : 2017/8/9
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Low Test Engineer : Enzo
 Measurement Antenna
 EUT Pol. : E2 Pol. : Vertical



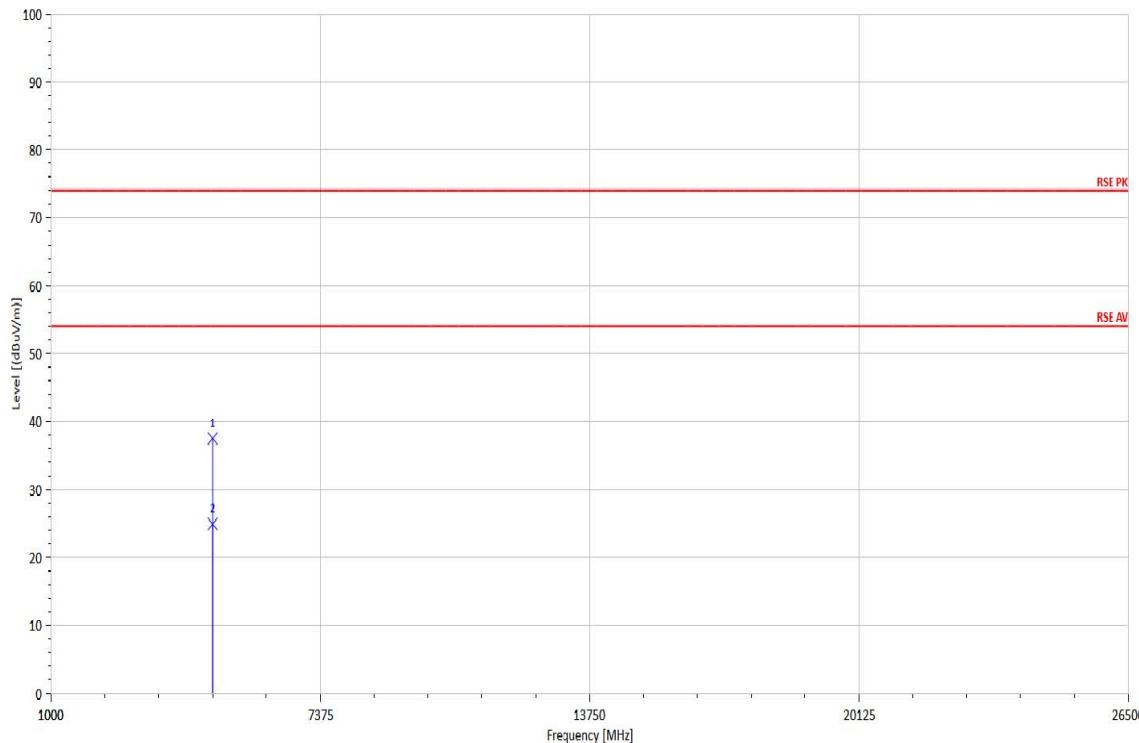
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4824.00	H	Peak	30.66	7.58	38.23	74	-35.77
4824.00	H	Average	22.22	7.58	29.80	54	-24.20

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Operation Mode : 802.11b Test Date : 2017/8/9
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Low Test Engineer : Enzo
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



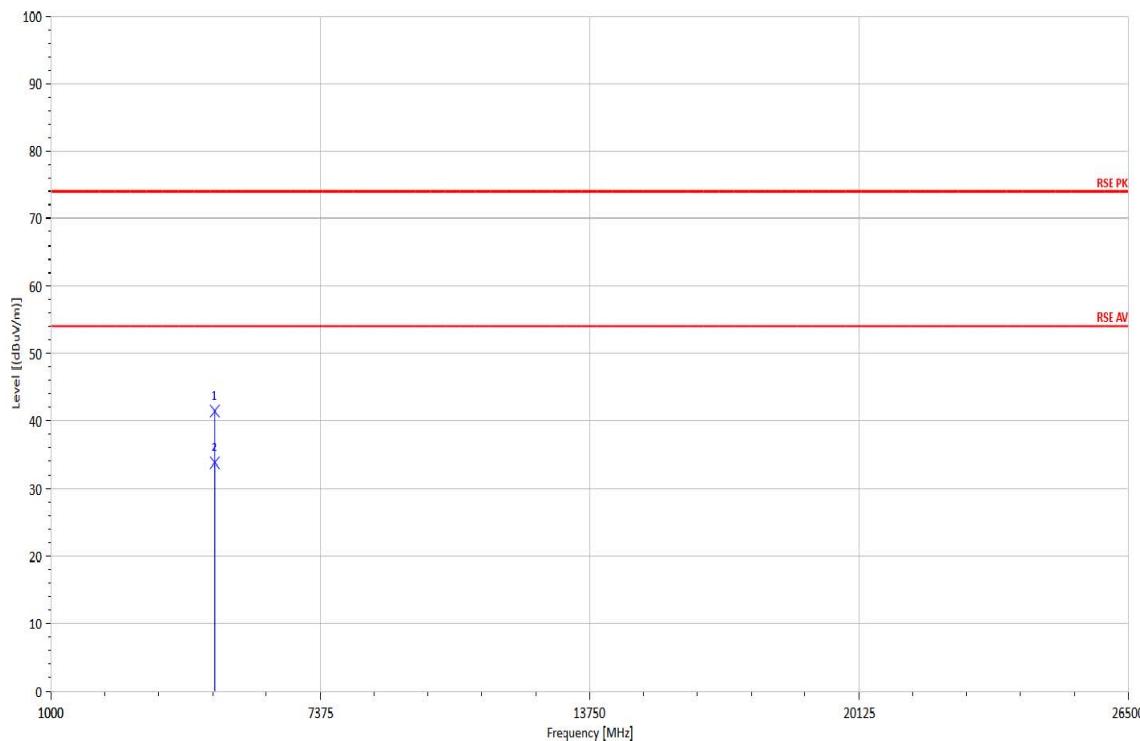
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.00	H	Peak	29.95	7.58	37.53	74	-36.47
4824.00	H	Average	17.35	7.58	24.93	54	-29.07

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Operation Mode : 802.11b Test Date : 2017/8/9
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Mid Test Engineer : Enzo
 EUT Pol. : E2 Pol. : Measurement Antenna
 Vertical



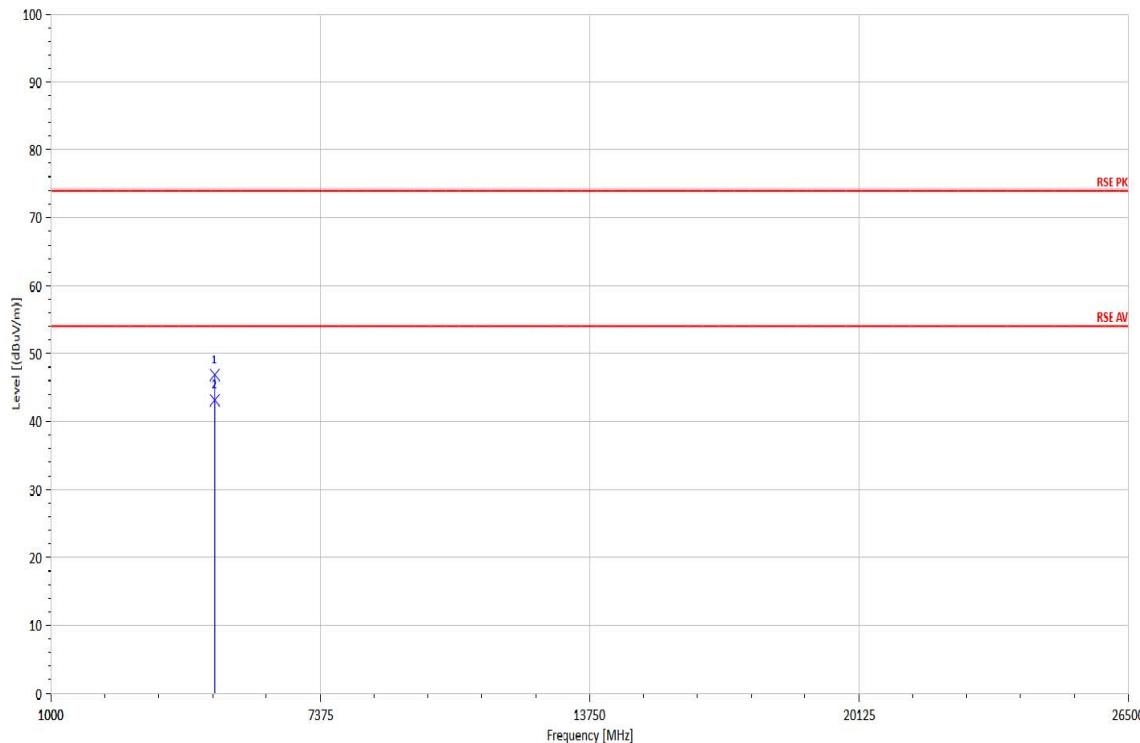
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4874.00	H	Peak	33.61	7.86	41.47	74	-32.53
4874.00	H	Average	25.94	7.91	33.85	54	-20.15

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Operation Mode : 802.11b Test Date : 2017/8/9
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Mid Test Engineer : Enzo
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



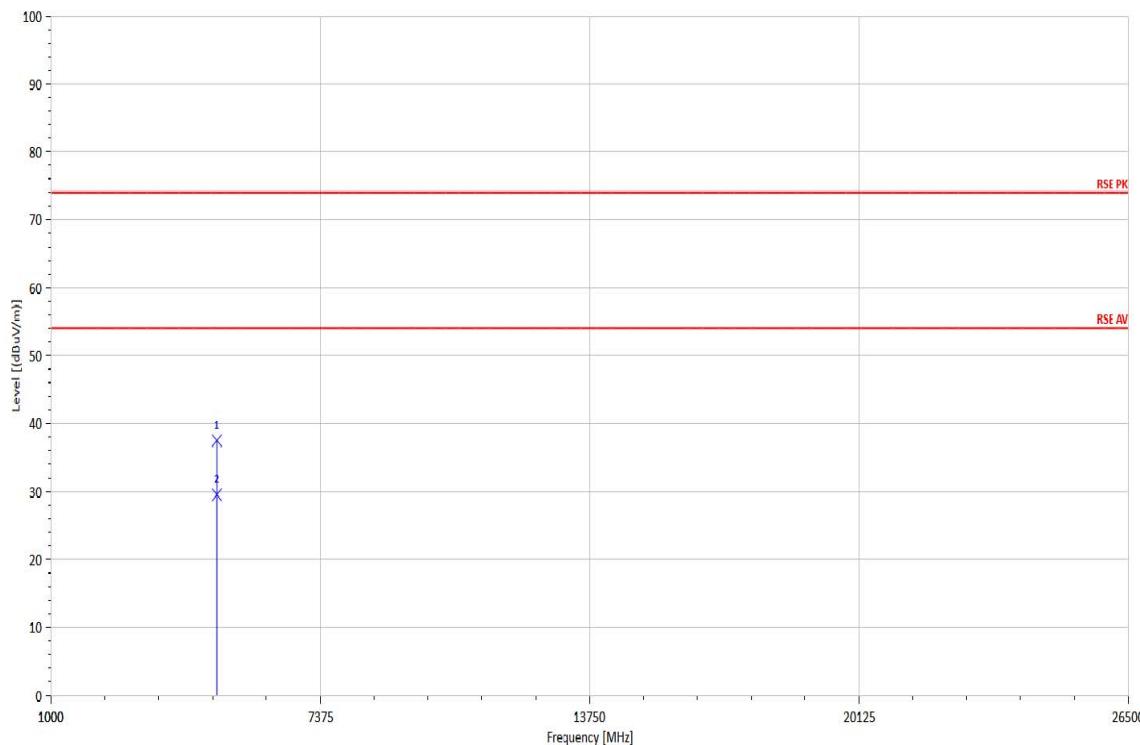
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4874.00	H	Peak	39.02	7.86	46.88	74	-27.12
4874.00	H	Average	35.25	7.91	43.16	54	-10.84

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Operation Mode : 802.11b Test Date : 2017/8/9
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch High Test Engineer : Enzo
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



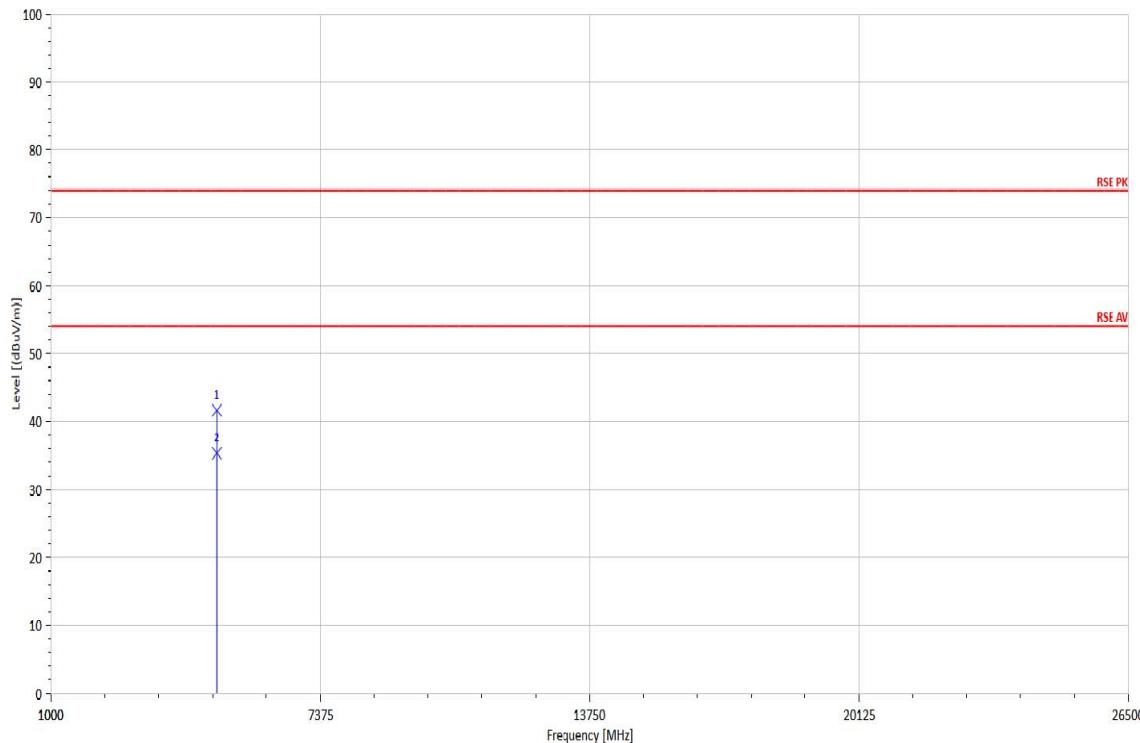
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	H	Peak	29.58	7.92	37.51	74	-36.49
4924.00	H	Average	21.61	7.92	29.53	54	-24.47

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Operation Mode : 802.11b Test Date : 2017/8/9
 Fundamental Frequency : 2462 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	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	H	Peak	33.64	8.00	41.64	74	-32.36
4924.00	H	Average	27.43	7.92	35.35	54	-18.65

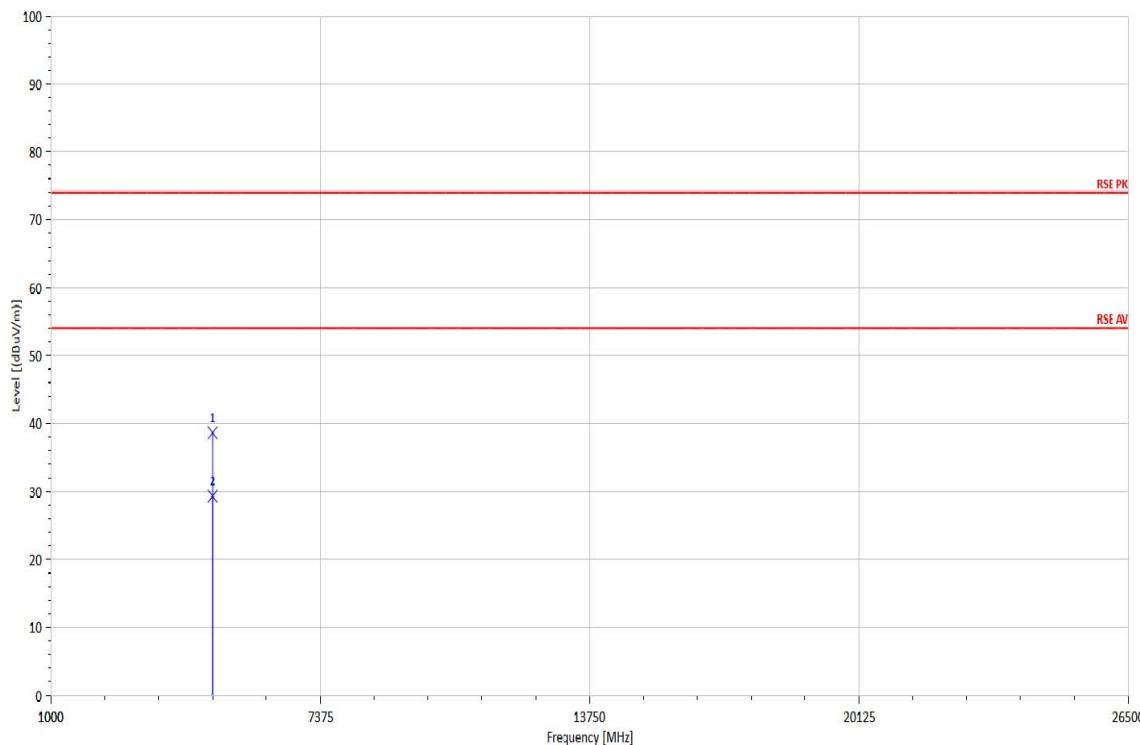
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Radiated Spurious Emission Measurement Result (802.11g) above 1GHz

Operation Mode : 802.11g Test Date : 2017/8/9
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Low Test Engineer : Enzo
 Measurement Antenna
 EUT Pol. : E2 Pol. : Vertical



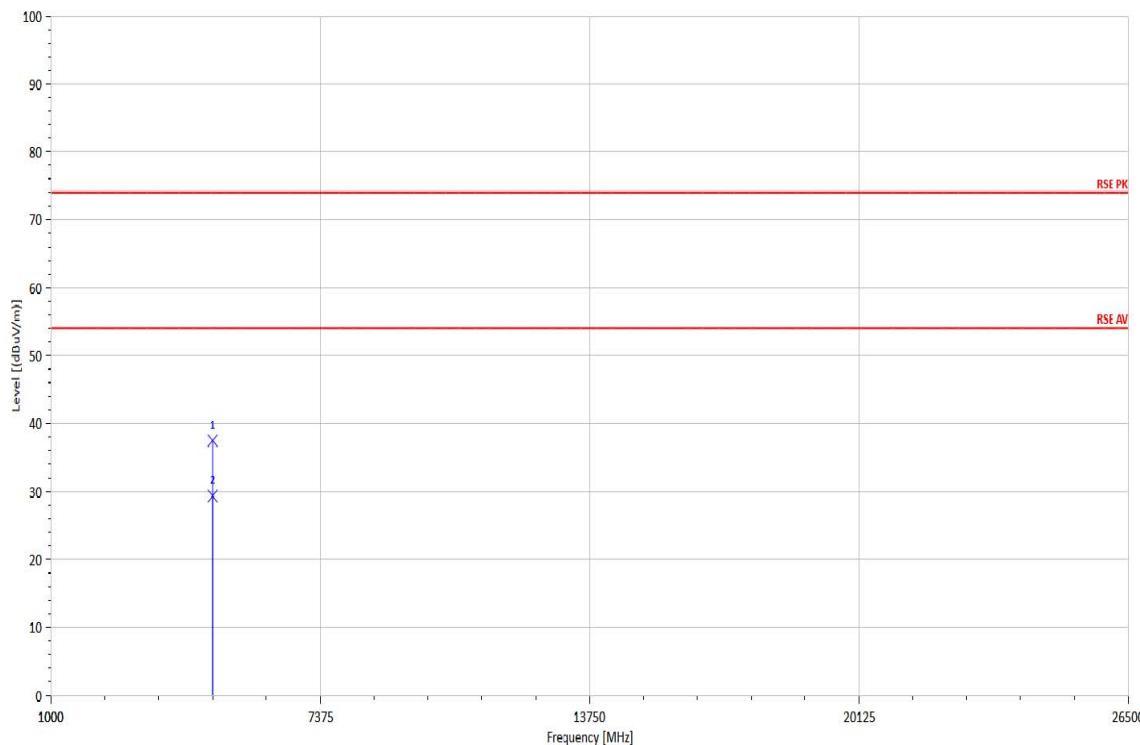
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4824.00	H	Peak	31.07	7.58	38.65	74	-35.35
4824.00	H	Average	21.74	7.58	29.32	54	-24.68

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Operation Mode : 802.11g Test Date : 2017/8/9
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Low Test Engineer : Enzo
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



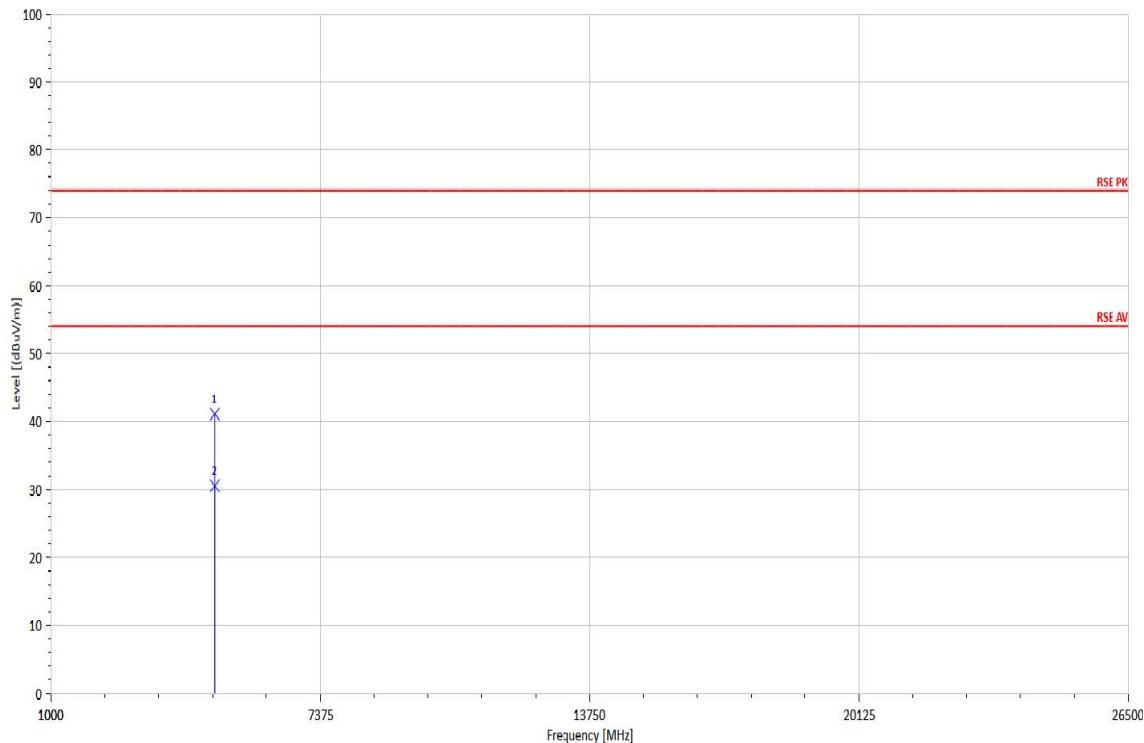
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.00	H	Peak	29.92	7.58	37.50	74	-36.50
4824.00	H	Average	21.77	7.58	29.35	54	-24.65

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Operation Mode : 802.11g Test Date : 2017/8/9
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Mid Test Engineer : Enzo
 EUT Pol. : E2 Pol. : Measurement Antenna
 Vertical



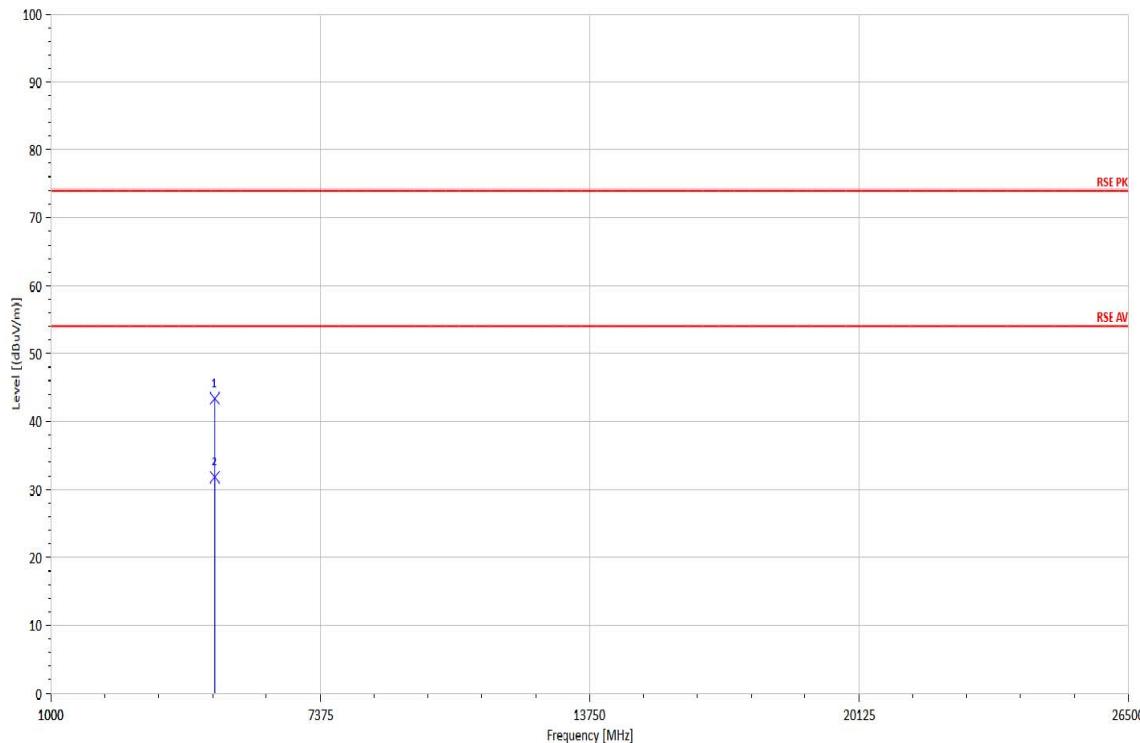
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	H	Peak	33.26	7.86	41.12	74	-32.88
4874.00	H	Average	22.62	7.91	30.53	54	-23.47

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Operation Mode : 802.11g Test Date : 2017/8/9
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Mid Test Engineer : Enzo
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



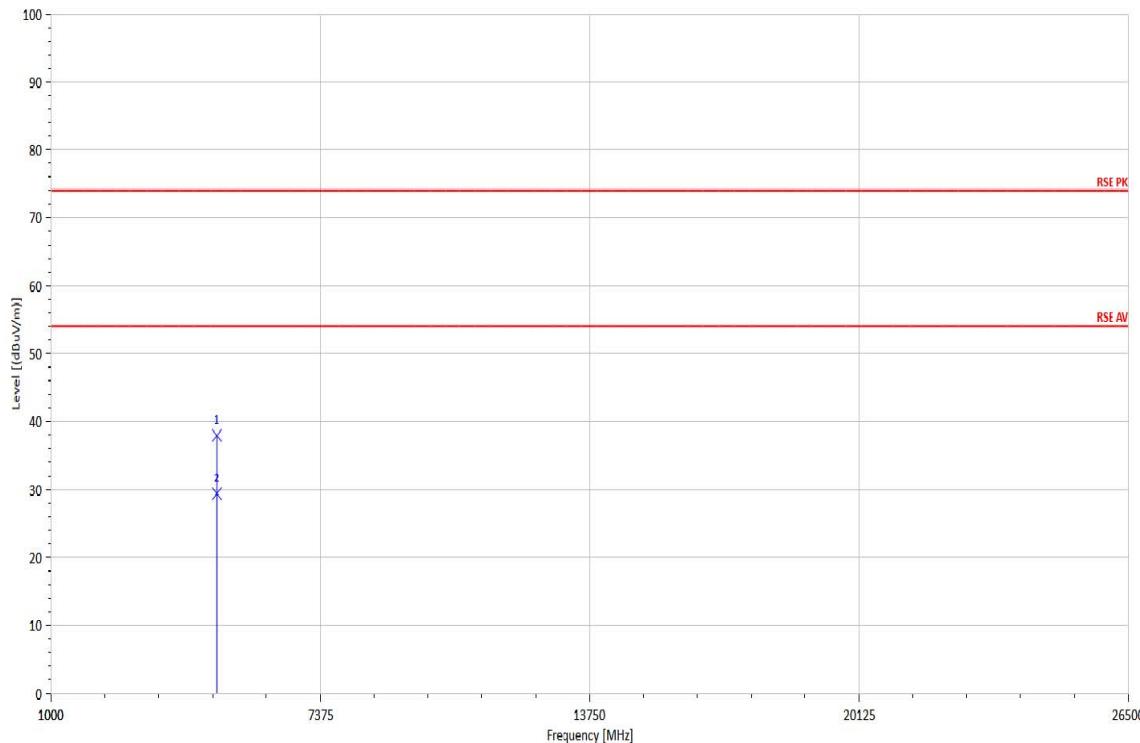
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	H	Peak	35.54	7.86	43.40	74	-30.60
4874.00	H	Average	23.92	7.91	31.83	54	-22.17

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Operation Mode : 802.11g Test Date : 2017/8/9
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch High Test Engineer : Enzo
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



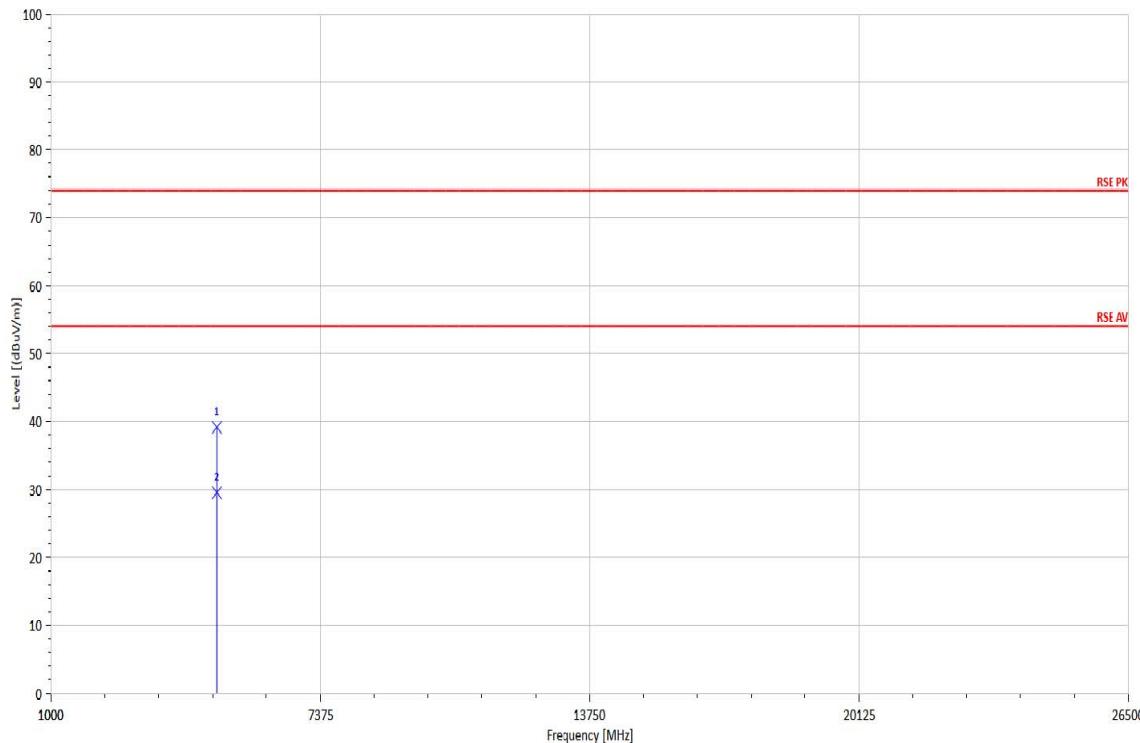
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4924.00	H	Peak	30.01	7.92	37.94	74	-36.06
4924.00	H	Average	21.47	7.92	29.39	54	-24.61

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Operation Mode : 802.11g Test Date : 2017/8/9
 Fundamental Frequency : 2462 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	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	H	Peak	31.23	7.92	39.15	74	-34.85
4924.00	H	Average	21.62	7.92	29.54	54	-24.46

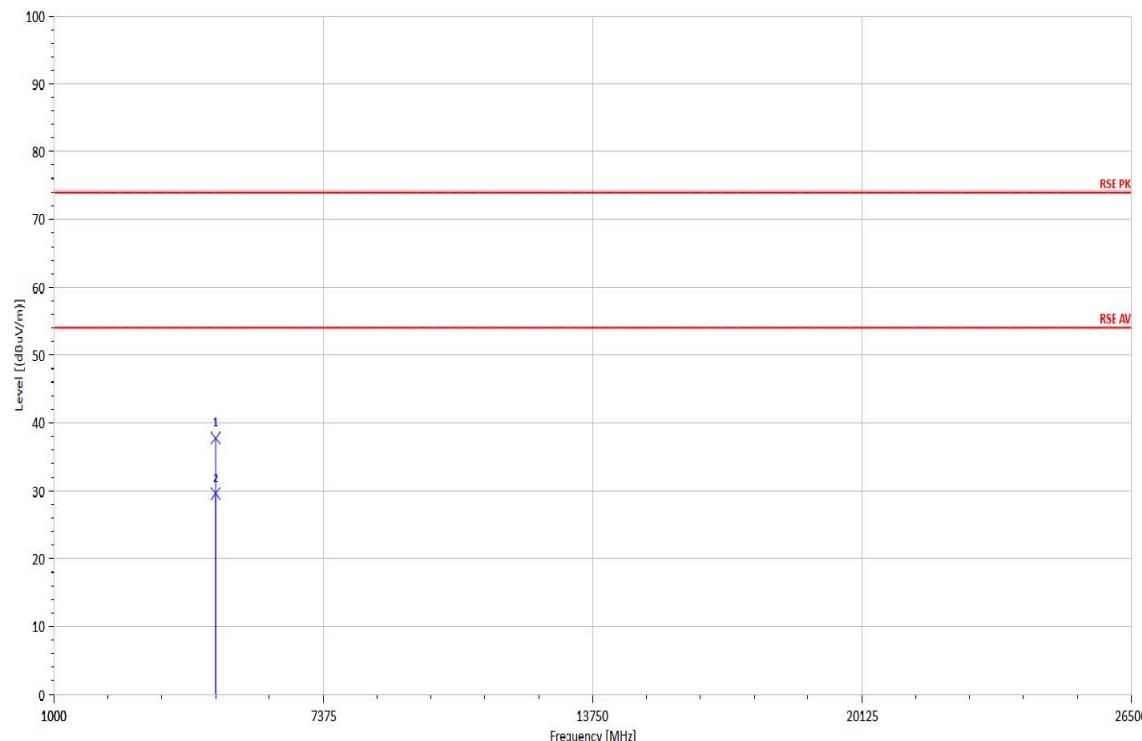
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Radiated Spurious Emission Measurement Result (802.11n_20M) above 1GHz

Operation Mode : 802.11n20 Test Date : 2017/8/9
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Low Test Engineer : Enzo
 EUT Pol. : E2 Pol. : Measurement Antenna
 Vertical



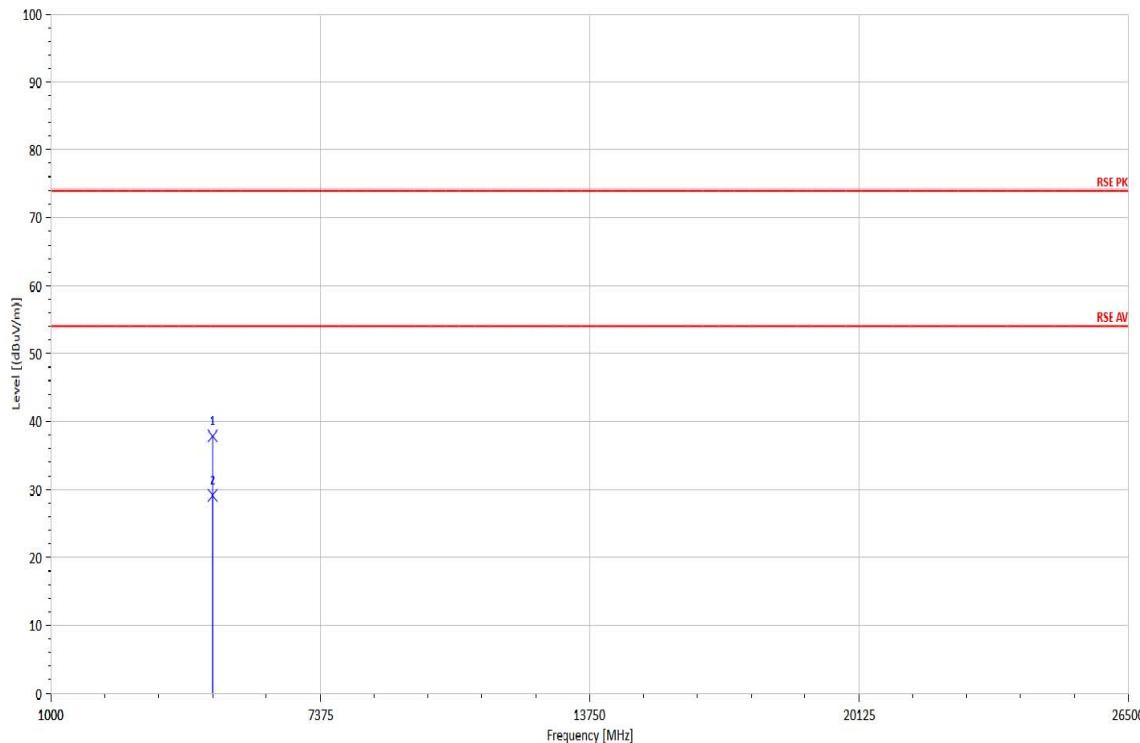
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.00	H	Peak	30.19	7.58	37.76	74	-36.24
4824.00	H	Average	22.04	7.58	29.62	54	-24.38

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Operation Mode : 802.11n20 Test Date : 2017/8/9
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Low Test Engineer : Enzo
 Measurement Antenna
 EUT Pol. : E2 Pol. : Horizontal



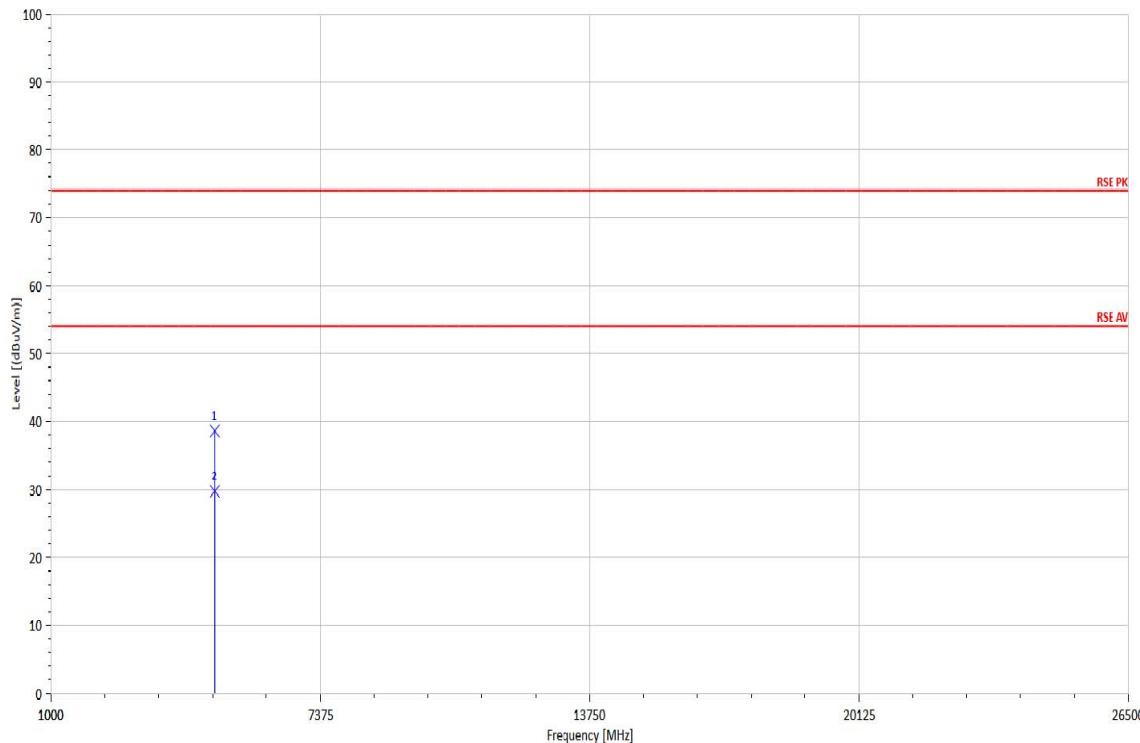
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4824.00	H	Peak	30.28	7.58	37.85	74	-36.15
4824.00	H	Average	21.55	7.58	29.13	54	-24.87

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Operation Mode : 802.11n20 Test Date : 2017/8/9
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Mid Test Engineer : Enzo
 Measurement Antenna
 EUT Pol. : E2 Pol. : Vertical



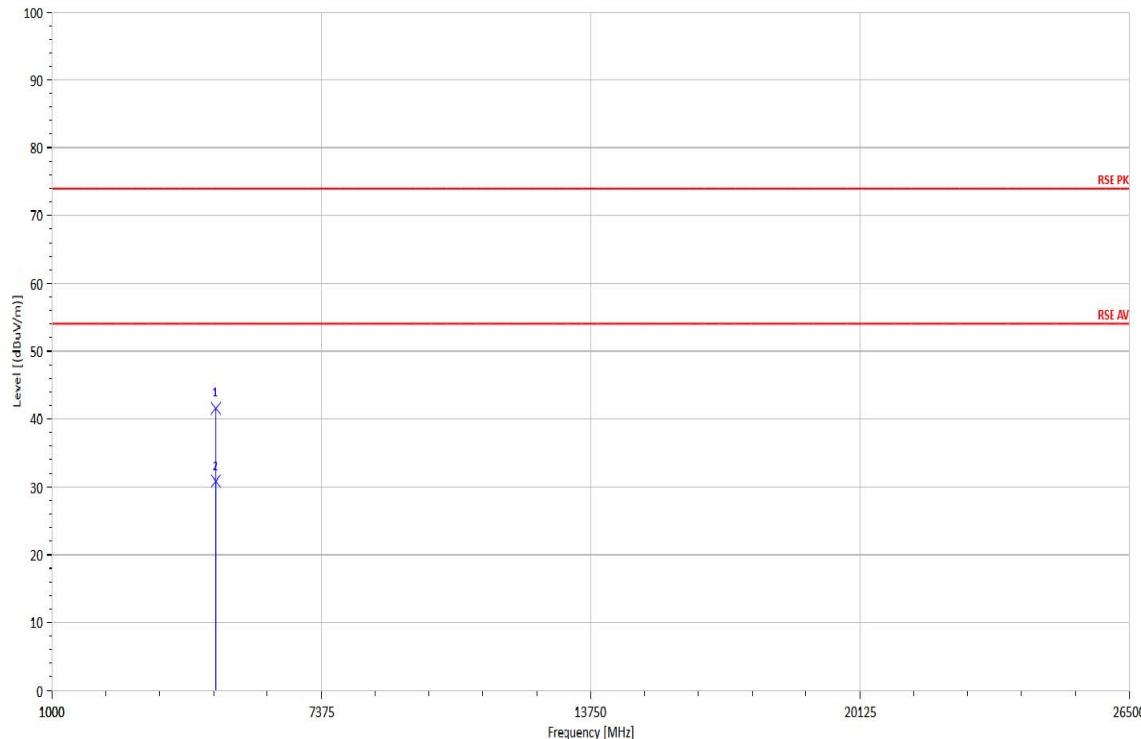
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	H	Peak	30.71	7.91	38.62	74	-35.38
4874.00	H	Average	21.85	7.91	29.76	54	-24.24

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Operation Mode : 802.11n20 Test Date : 2017/8/9
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Mid Test Engineer : Enzo
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	dBuV/m	dBuV/m	dB
4874.00	H	Peak	33.72	7.86	41.58	74	-32.42
4874.00	H	Average	22.93	7.91	30.84	54	-23.16

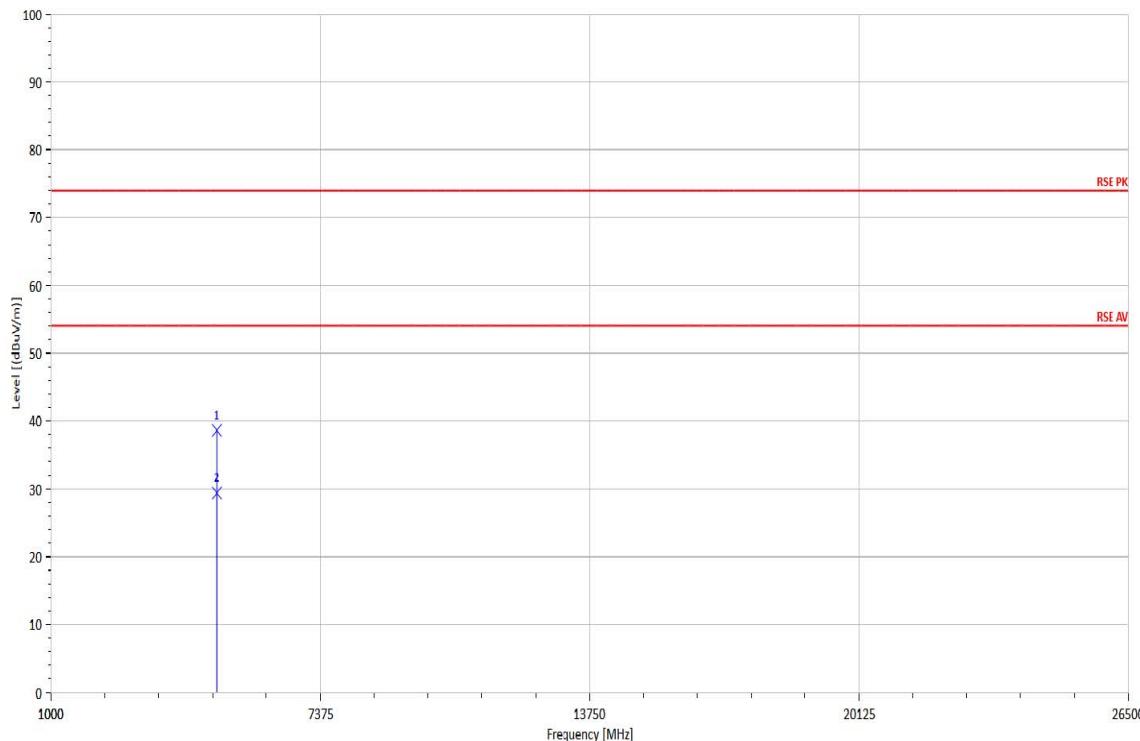
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Operation Mode : 802.11n20 Test Date : 2017/8/9
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch High Test Engineer : Enzo
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	H	Peak	30.71	7.92	38.63	74	-35.37
4924.00	H	Average	21.47	7.92	29.39	54	-24.61

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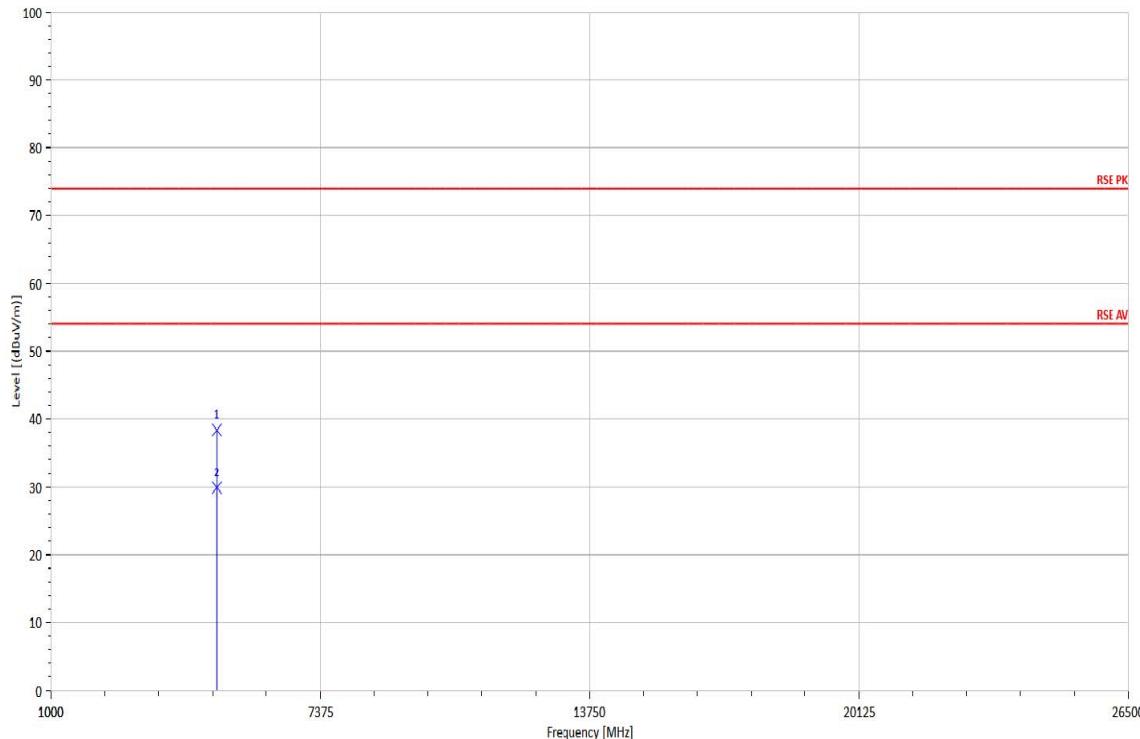
t (886-2) 2299-3279

f (886-2) 2298-0488

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Operation Mode : 802.11n20 Test Date : 2017/8/9
 Fundamental Frequency : 2462 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	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	H	Peak	30.45	7.92	38.37	74	-35.63
4924.00	H	Average	21.98	7.92	29.90	54	-24.10

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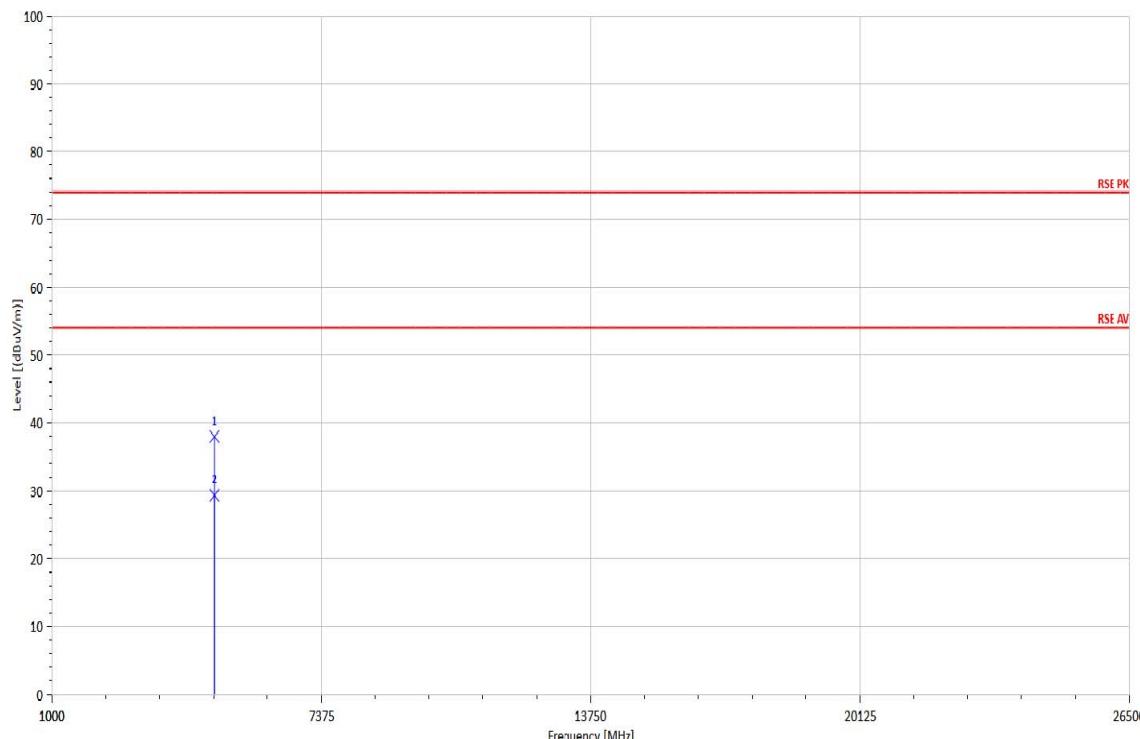
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Radiated Spurious Emission Measurement Result (802.11n_40M) above 1GHz

Operation Mode : 802.11n40 Test Date : 2017/8/9
Fundamental Frequency : 2422 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx Ch Low Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



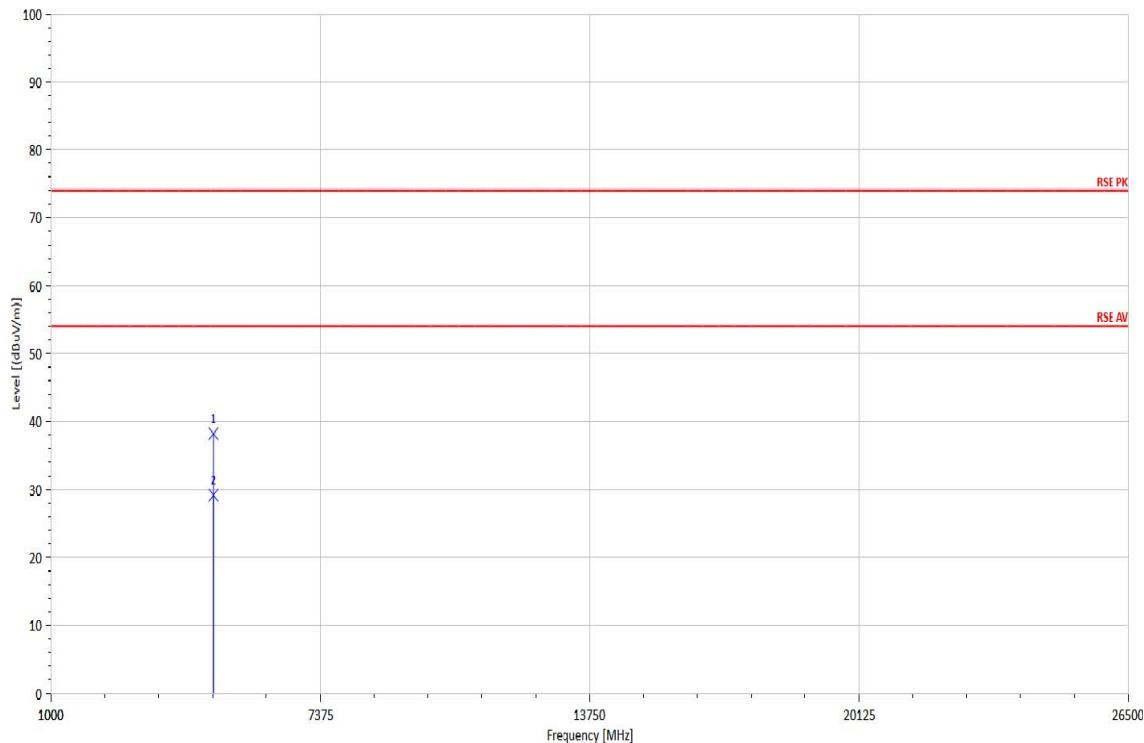
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4844.00	H	Peak	30.43	7.55	37.98	74	-36.02
4844.00	H	Average	21.79	7.55	29.34	54	-24.66

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Operation Mode : 802.11n40 Test Date : 2017/8/9
 Fundamental Frequency : 2422 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Low Test Engineer : Enzo
 Measurement Antenna
 EUT Pol. : E2 Pol. : Horizontal



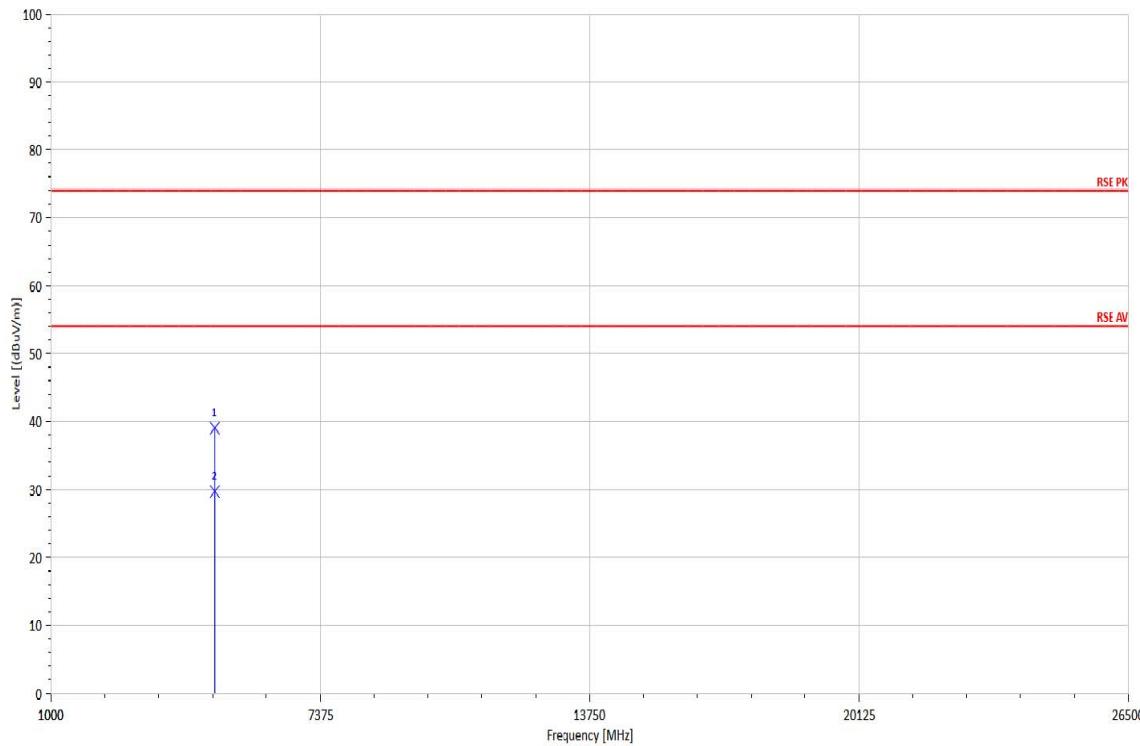
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4844.00	H	Peak	30.66	7.55	38.21	74	-35.79
4844.00	H	Average	21.61	7.55	29.16	54	-24.84

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Operation Mode : 802.11n40 Test Date : 2017/8/9
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Mid Test Engineer : Enzo
 Measurement Antenna
 EUT Pol. : E2 Pol. : Vertical



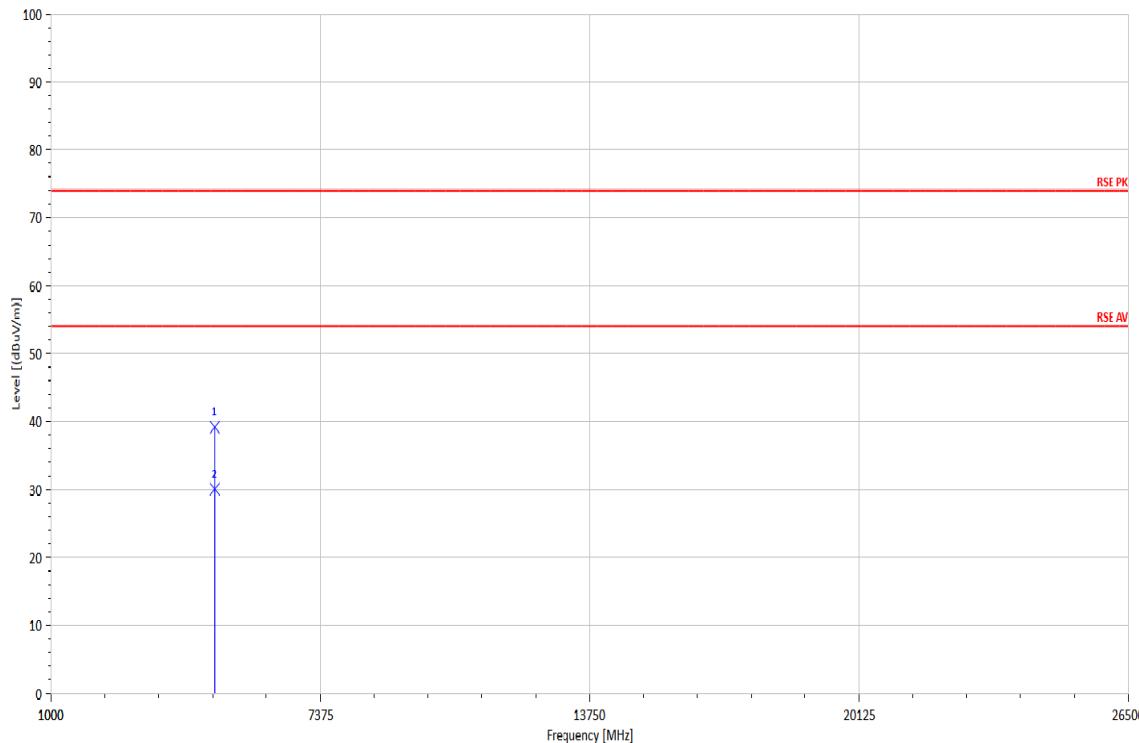
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	S	Peak	31.14	7.91	39.05	74	-34.95
4874.00	S	Average	21.81	7.91	29.72	54	-24.28

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Operation Mode : 802.11n40 Test Date : 2017/8/9
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Mid Test Engineer : Enzo
 Measurement Antenna
 EUT Pol. : E2 Pol. : Horizontal



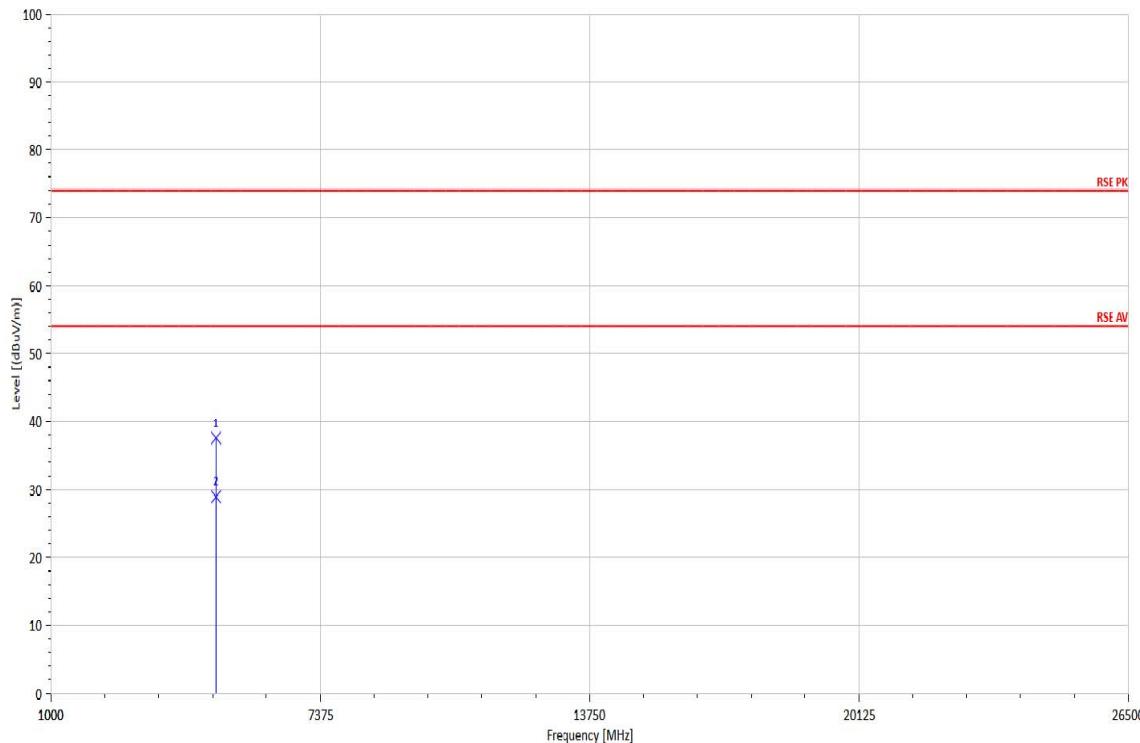
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	H	Peak	31.27	7.91	39.18	74	-34.82
4874.00	H	Average	22.15	7.91	30.06	54	-23.94

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Operation Mode : 802.11n40 Test Date : 2017/8/9
 Fundamental Frequency : 2452 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch High Test Engineer : Enzo
 Measurement Antenna
 EUT Pol. : E2 Pol. : Vertical



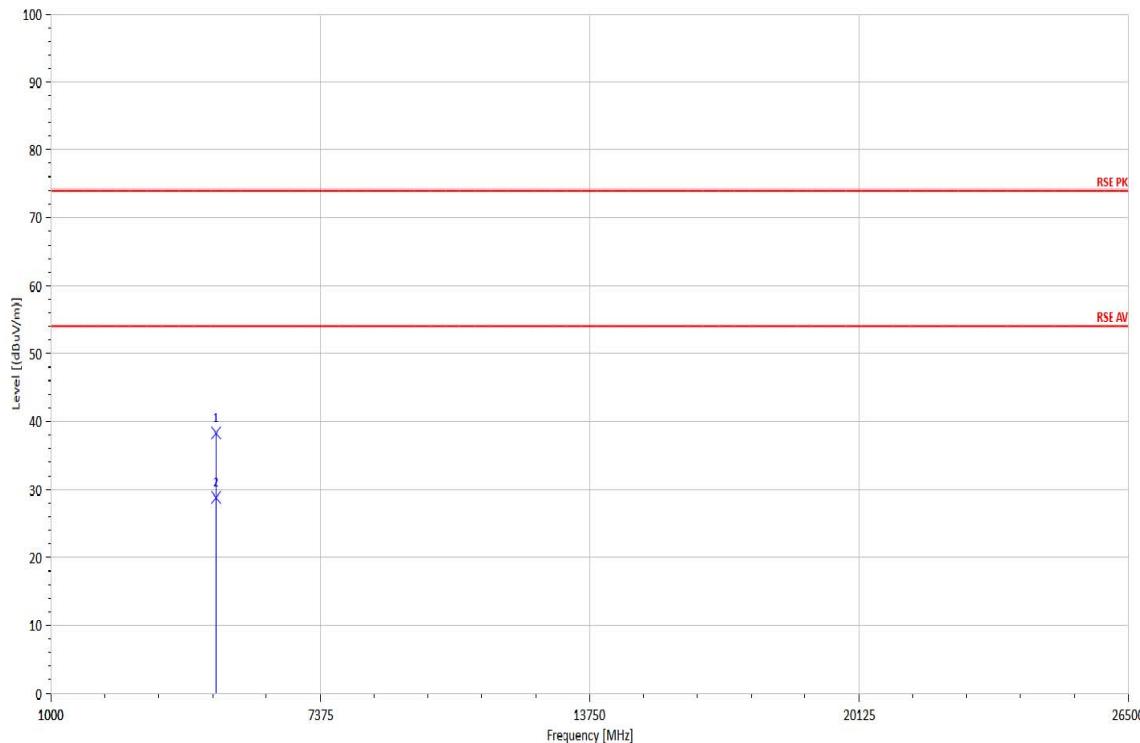
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4904.00	H	Peak	30.14	7.44	37.59	74	-36.41
4904.00	H	Average	21.47	7.44	28.91	54	-25.09

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Operation Mode : 802.11n40 Test Date : 2017/8/9
 Fundamental Frequency : 2452 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch High Test Engineer : Enzo
 Measurement Antenna
 EUT Pol. : E2 Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4904.00	H	Peak	30.85	7.44	38.30	74	-35.70
4904.00	H	Average	21.36	7.44	28.80	54	-25.20

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12 PEAK POWER SPECTRAL DENSITY

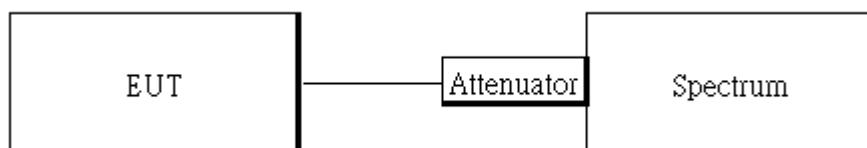
12.1 Standard Applicable

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

12.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018
DC Block	PASTERNAK	PE8210	RF29	12/24/2017	12/23/2018
Attenuator	WOKEN	218FS-10	RF23	12/24/2017	12/23/2018

12.3 Test Set-up



12.4 Measurement Procedure

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 3 kHz & VBW = 10 kHz.
5. For defining Restricted Band Edge Limit:
Set the RBW = 100kHz & VBW = 300 kHz
6. Detector = peak.
7. Sweep time = auto couple.
8. Trace mode = max hold.
9. Allow trace to fully stabilize.
10. Use the peak marker function to determine the maximum amplitude level.
11. 802.11n MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure the PSD for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna. N=2 for this given application.

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Note:

Antenna Gain:	6.57 dBi
Aux1 Antenna Gain:	6.88 dBi
Aux2 Antenna Gain:	0.00 dBi
Aux3 Antenna Gain:	0.00 dBi
Number Antenna:	2 pcs
Limit:	8 dBm

The antenna gain is grater than 6dBi in MIMO mode the limit reduce as below:

Directional gain = gain of antenna element + 10 log (# of TX antenna elements)

Effective Legacy Gain (dBi) = 6.88+3.01=9.89dBi

Limit: 8dBm - (9.89- 6dBi)=4.11dBm

12.5 Measurement Result

POWER DENSITY 802.11b					
Freq. (MHz)	PPSD W/O Duty Factor (dBm)	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Result
2412	-6.05	0.03	-6.02	7.12	PASS
2437	-1.32	0.03	-1.29	7.12	PASS
2462	-3.27	0.03	-3.24	7.12	PASS

POWER DENSITY 802.11g					
Freq. (MHz)	PPSD W/O Duty Factor (dBm)	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Result
2412	-9.63	0.16	-9.47	7.12	PASS
2437	-3.84	0.16	-3.68	7.12	PASS
2462	-9.42	0.16	-9.26	7.12	PASS

POWER DENSITY 802.11n HT20					
Freq. (MHz)	PPSD W/O Duty Factor (dBm)	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Result
2412	-7.89	0.32	-7.57	4.11	PASS
2437	-2.94	0.32	-2.62	4.11	PASS
2462	-7.25	0.32	-6.93	4.11	PASS

POWER DENSITY 802.11n HT40					
Freq. (MHz)	PPSD W/O Duty Factor (dBm)	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Result
2422	-15.92	0.46	-15.46	4.11	PASS
2437	-6.01	0.46	-5.55	4.11	PASS
2452	-15.26	0.46	-14.80	4.11	PASS

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Bandedge Limit 802.11b MODE			Bandedge Limit 802.11g MODE		
Freq. (MHz)	PSD (dBm)	Bandedge Limit (dBm)	Freq. (MHz)	PSD (dBm)	Bandedge Limit (dBm)
2412	9.15	-10.85	2412	4.29	-15.71
2462	11.09	-8.91	2462	5.31	-14.69

Bandedge Limit 802.11n20 MODE			Bandedge Limit 802.11n40 MODE		
Freq. (MHz)	PSD (dBm)	Bandedge Limit (dBm)	Freq. (MHz)	PSD (dBm)	Bandedge Limit (dBm)
2412	7.81	-12.19	2422	-0.59	-20.59
2462	9.01	-10.99	2452	0.16	-19.84

*Refer to next page for plots

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802.11b

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)

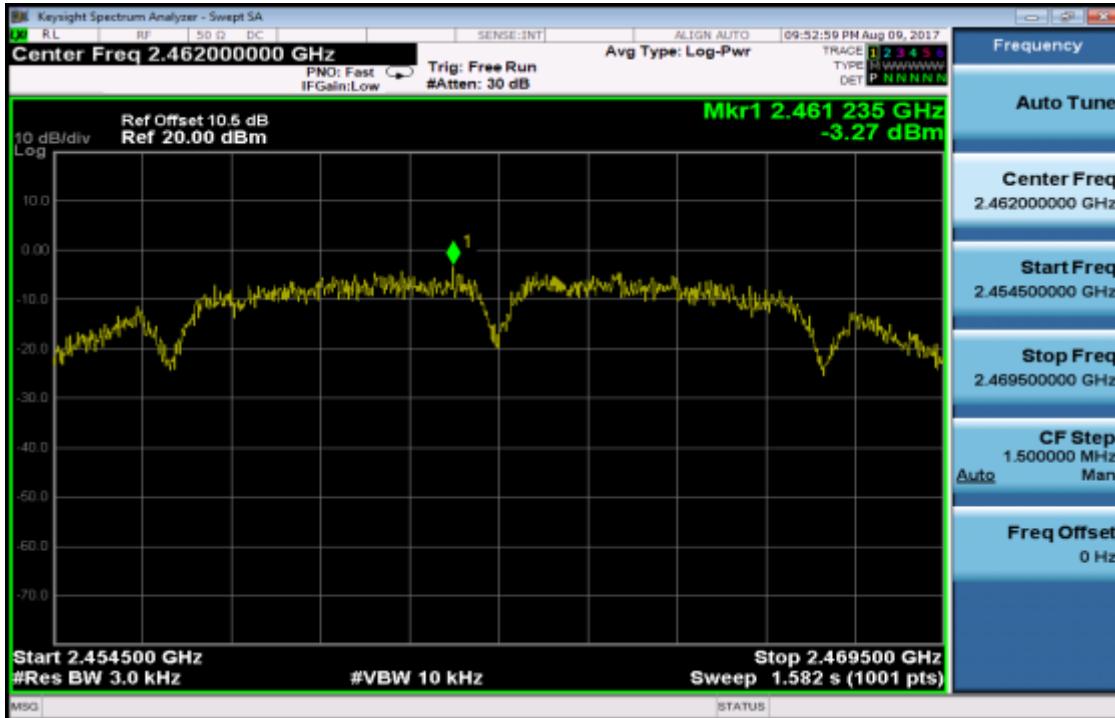


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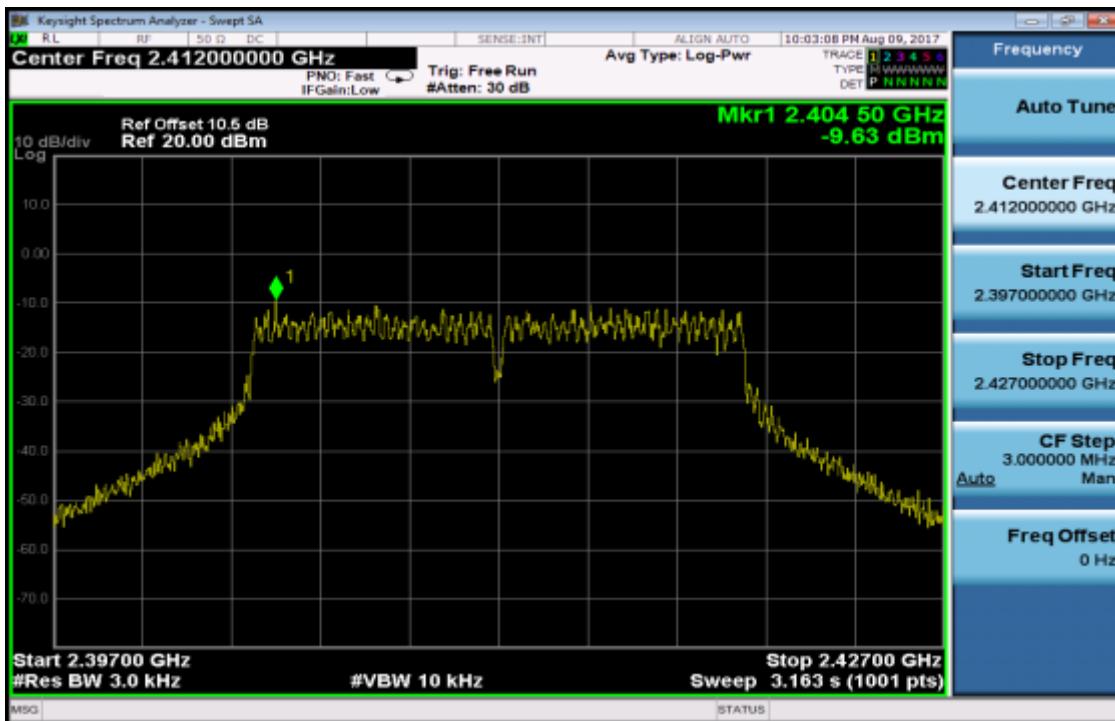
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Power Spectral Density Test Plot (CH-High)



802.11g

Power Spectral Density Test Plot (CH-Low)

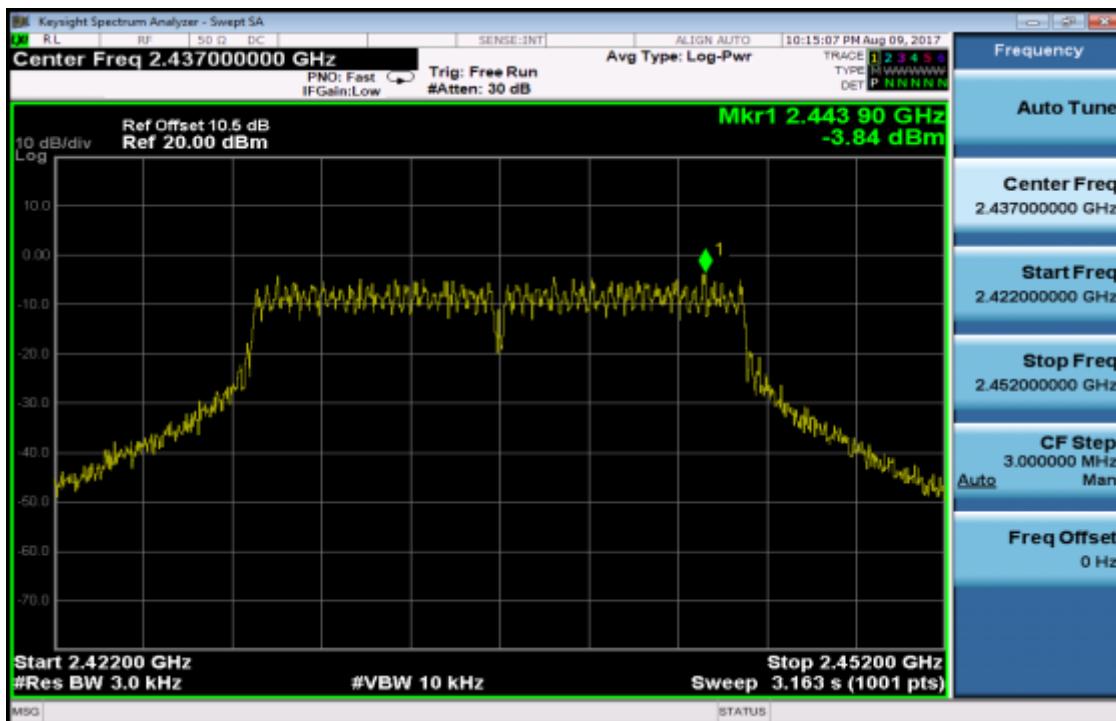


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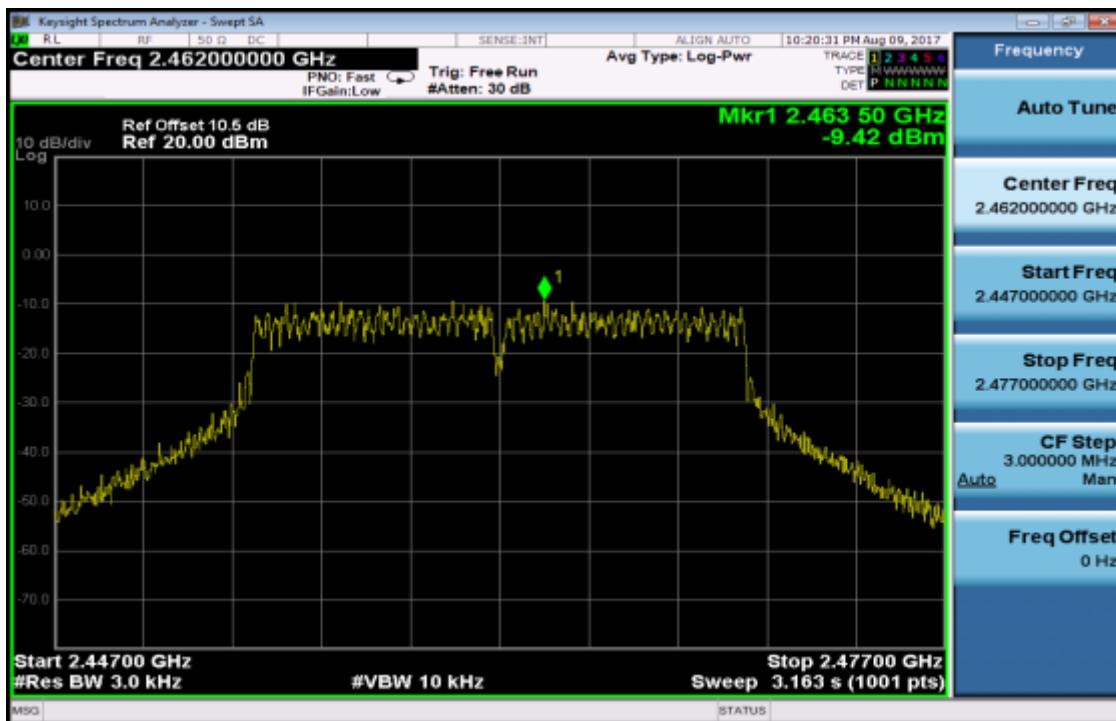
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Power Spectral Density Test Plot (CH-Mid)



Power Spectral Density Test Plot (CH-High)



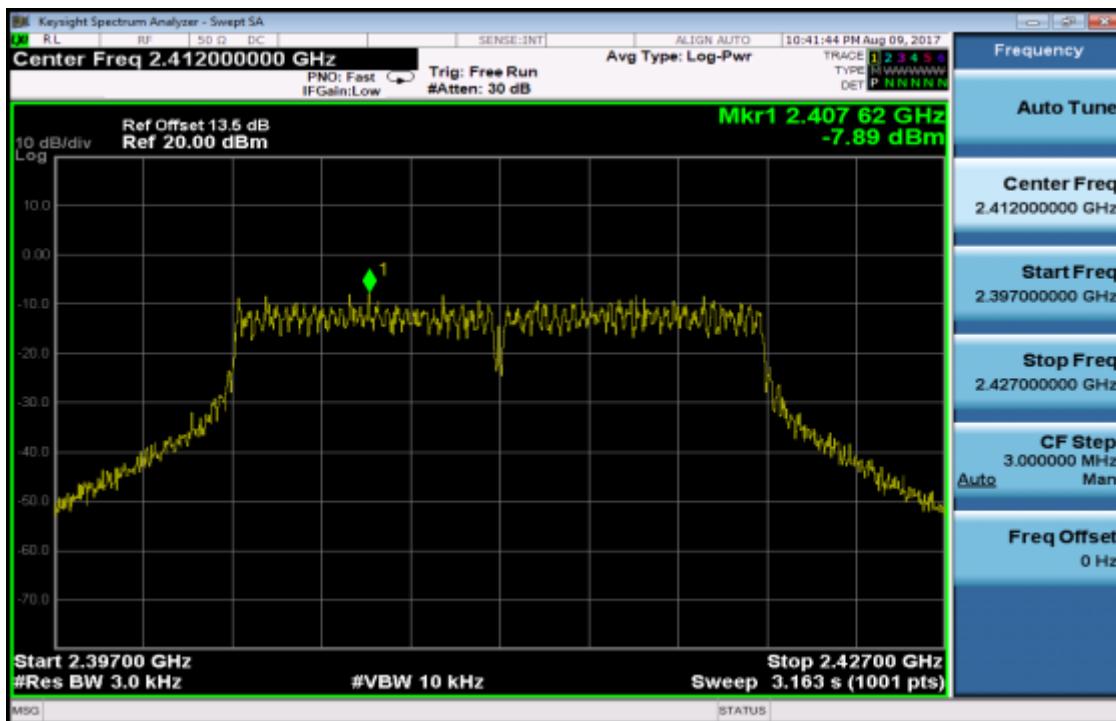
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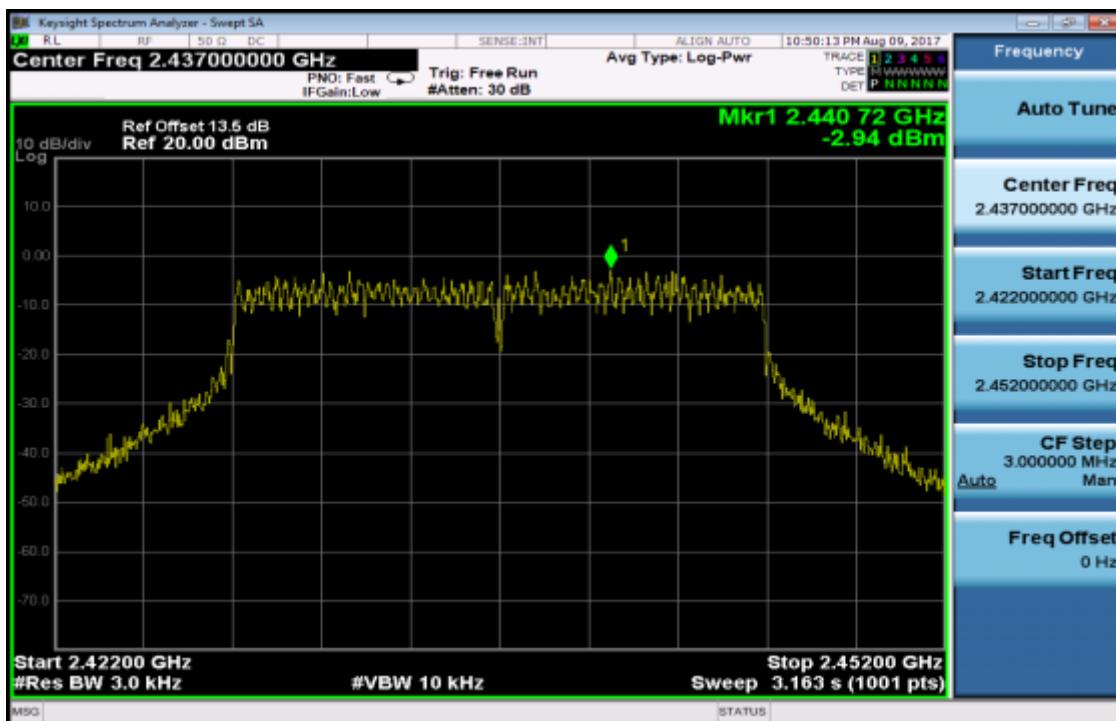
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802.11n_HT20 (MIMO)

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)

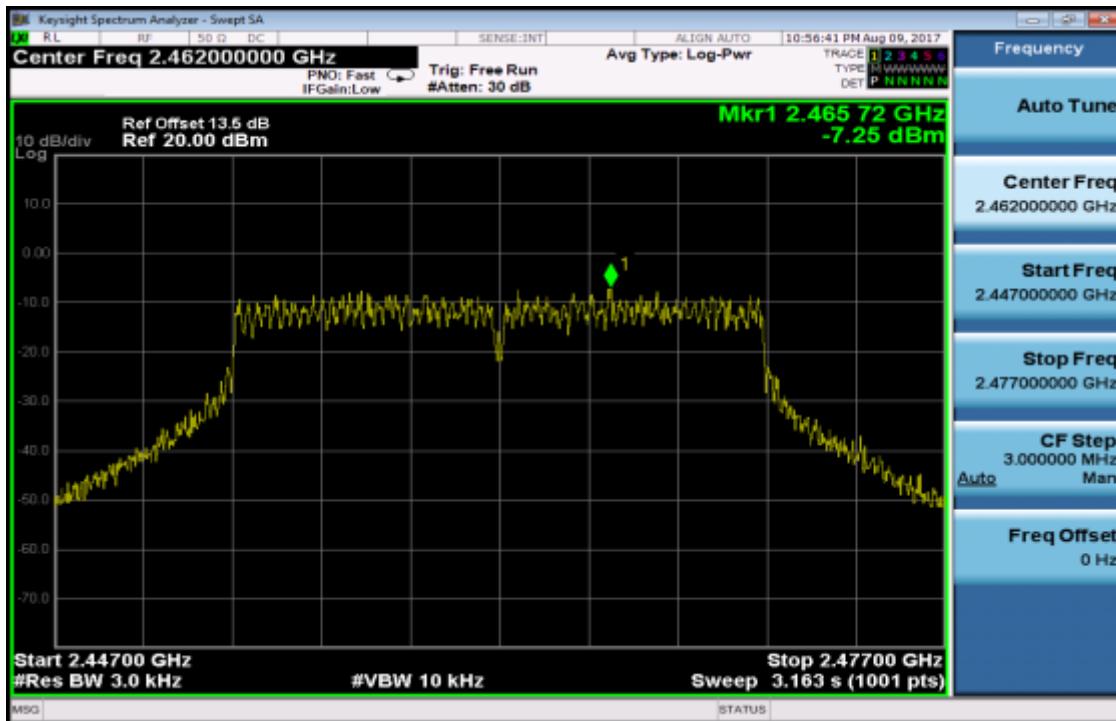


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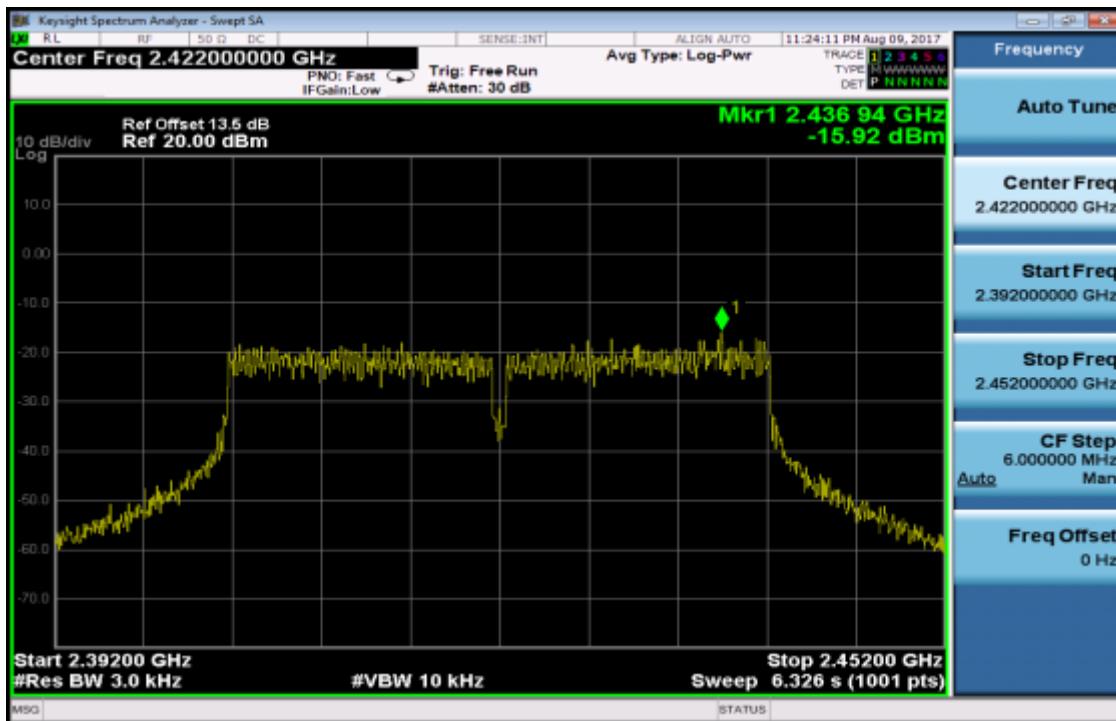
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Power Spectral Density Test Plot (CH-High)



802.11n_HT40 (MIMO)

Power Spectral Density Test Plot (CH-Low)



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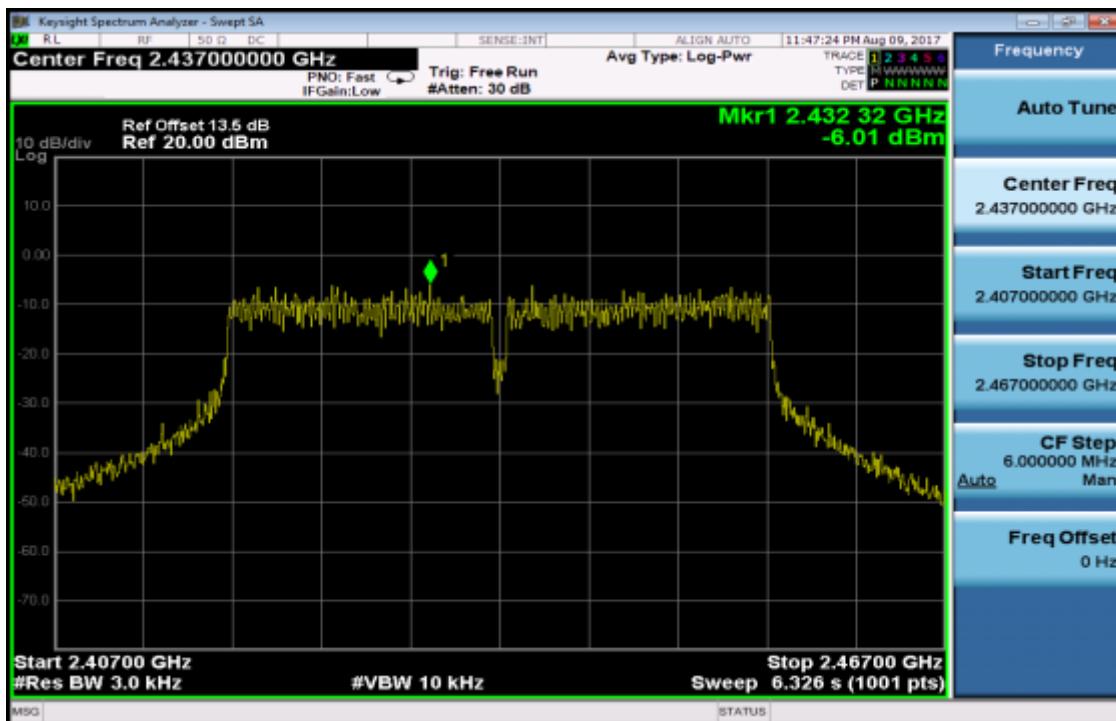
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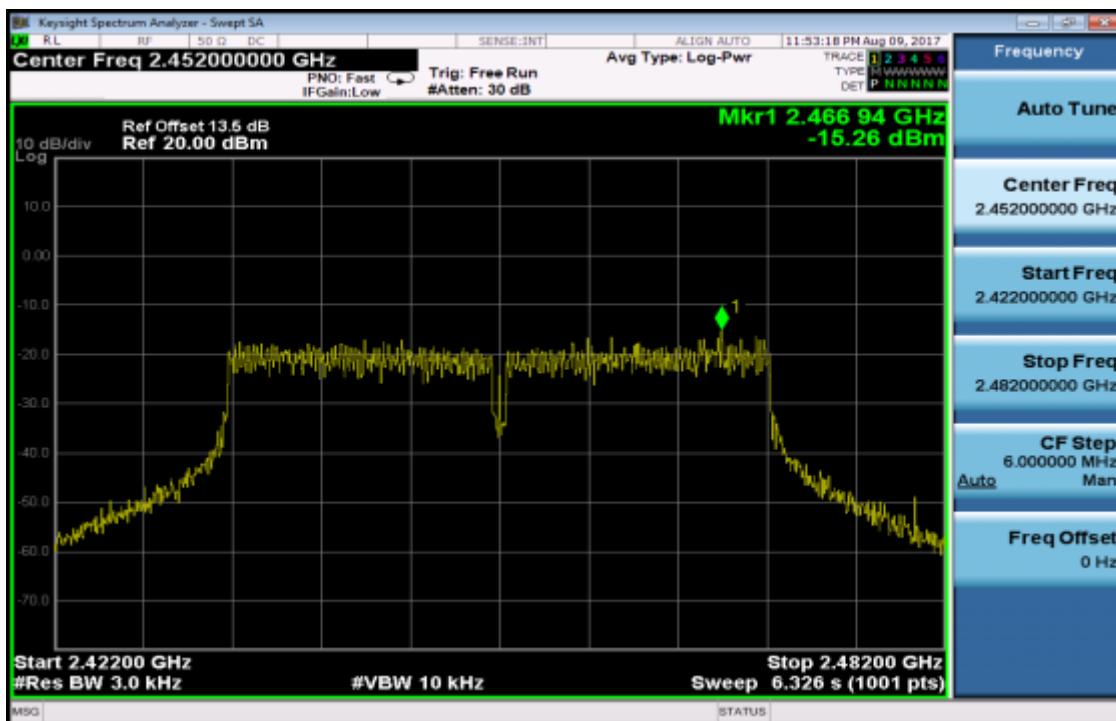
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Power Spectral Density Test Plot (CH-Mid)



Power Spectral Density Test Plot (CH-High)



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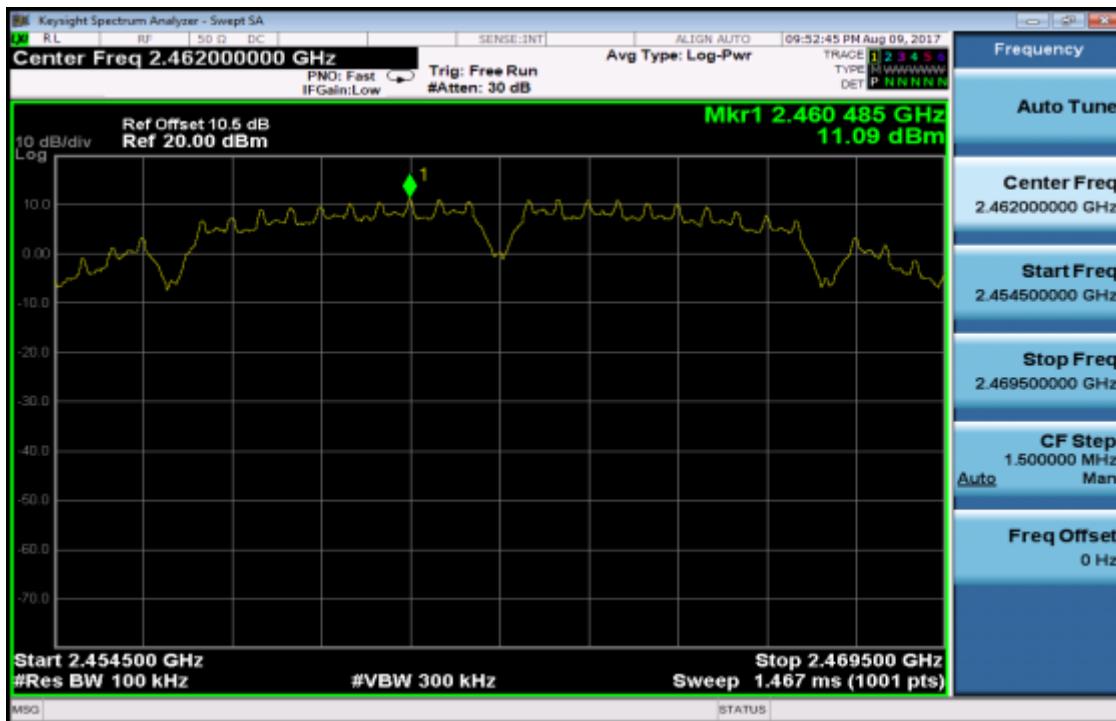
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802.11b

Power Spectral Density for Bandedge Limit (CH-Low)



Power Spectral Density for Bandedge Limit (CH-High)



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802.11g

Power Spectral Density for Bandedge Limit (CH-Low)



Power Spectral Density for Bandedge Limit (CH-High)



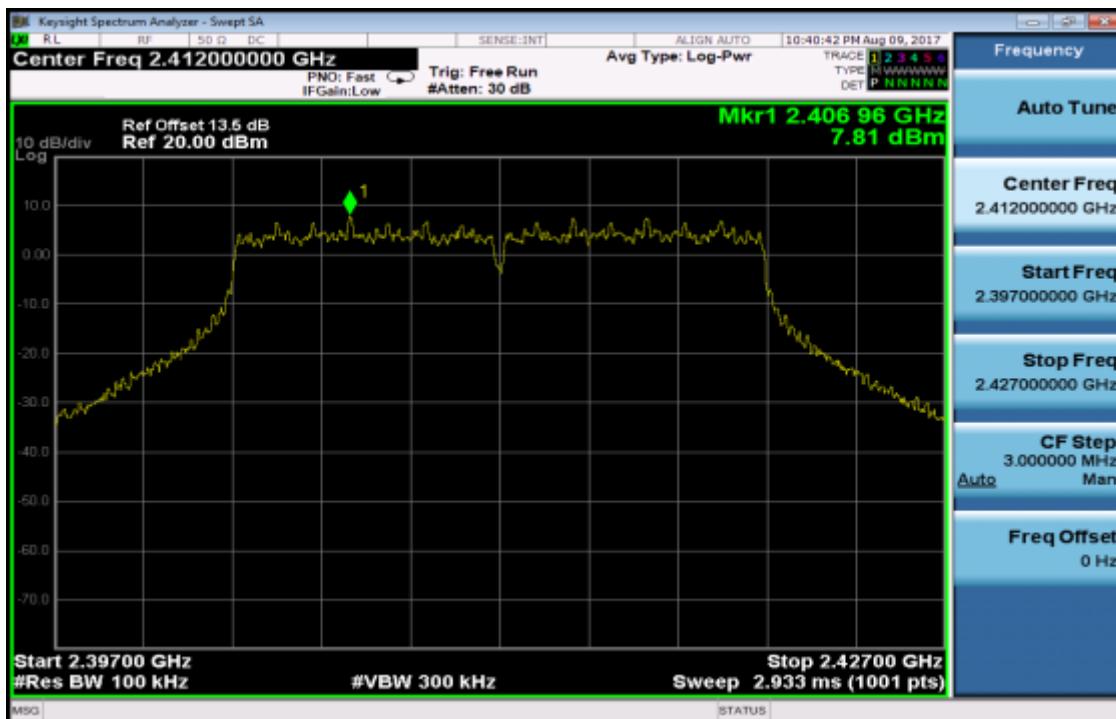
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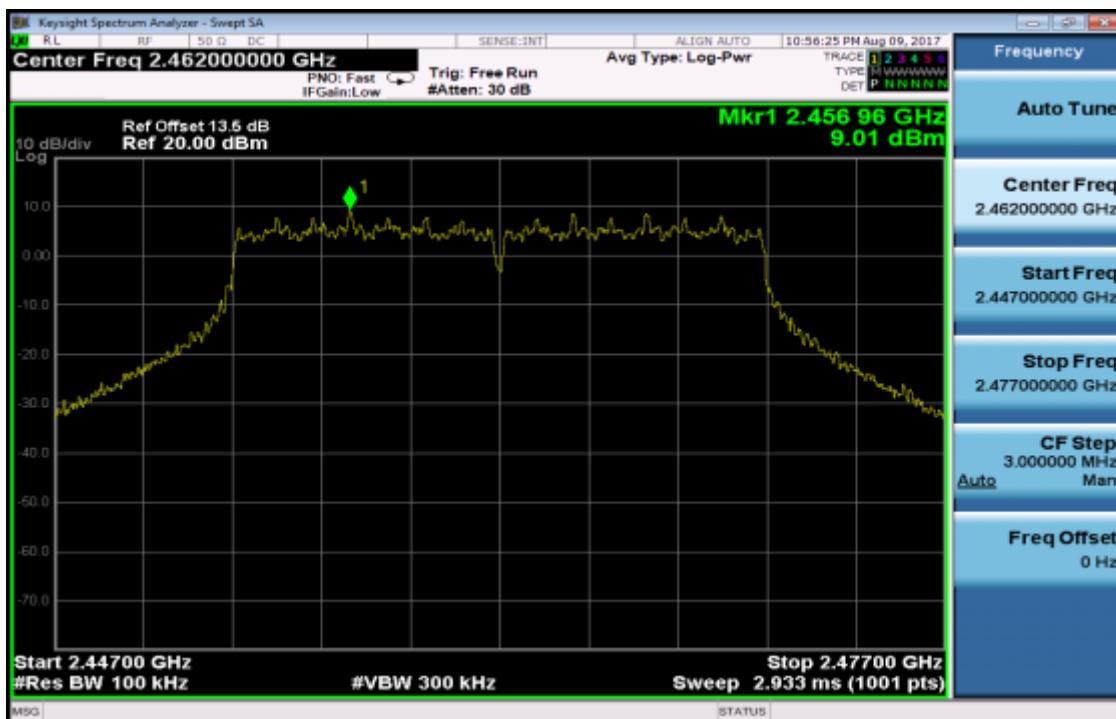
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802.11n_HT20

Power Spectral Density for Bandedge Limit (CH-Low)



Power Spectral Density for Bandedge Limit (CH-High)



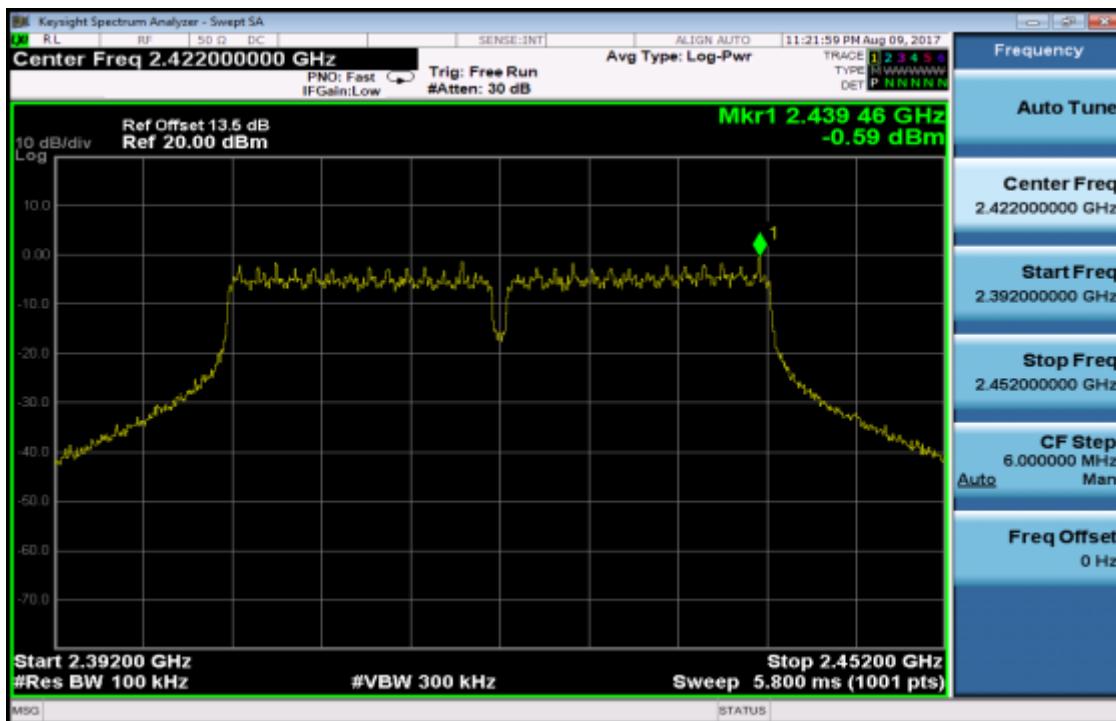
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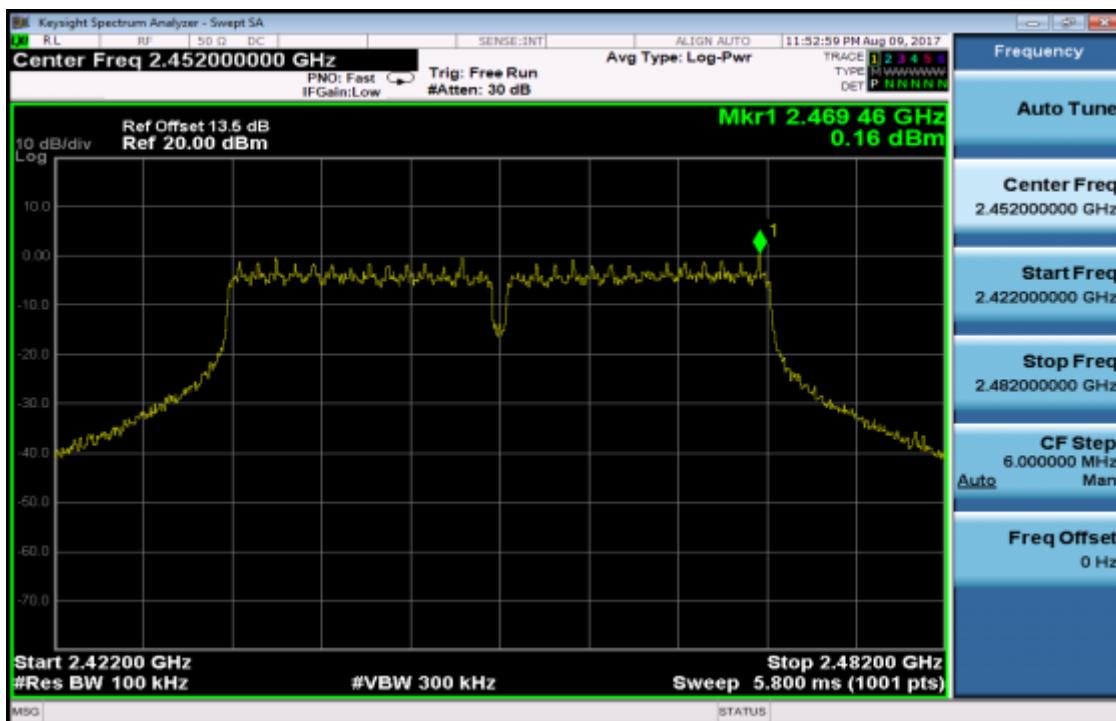
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802.11n_HT40

Power Spectral Density for Bandedge Limit (CH-Low)



Power Spectral Density for Bandedge Limit (CH-High)



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13 ANTENNA REQUIREMENT

13.1 Standard Applicable

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

If the transmitting antenna is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

13.2 Antenna Connected Construction

The directional gains of antenna used for transmitting is 6.57dBi for 2.4GHz (Main), 6.88dBi for 2.4GHz (Aux), 9.89dBi for 2.4GHz (MIMO) and the antenna connector is designed with unique type RF connector and no consideration of replacement. Please see EUT photo and antenna spec. for details.

~ End of Report ~

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