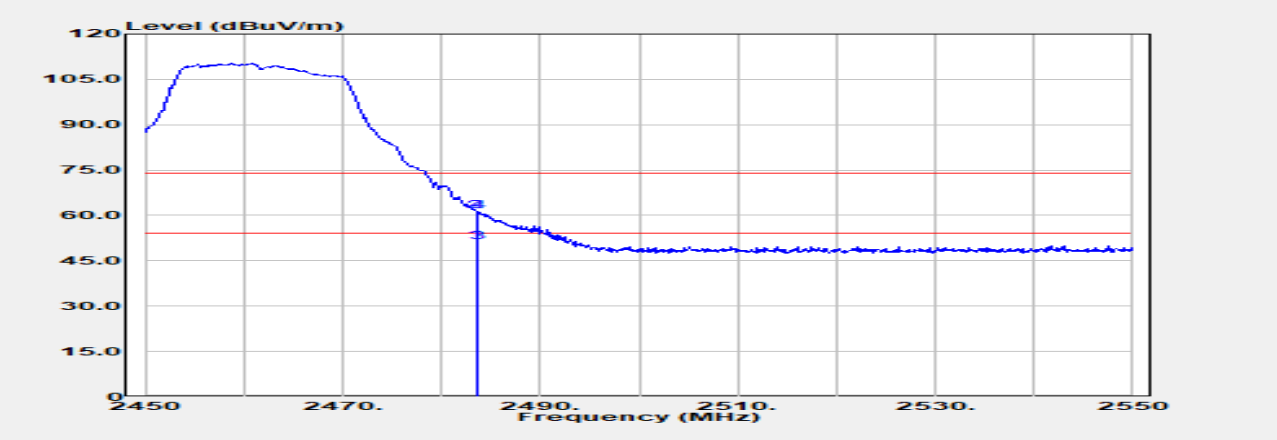
Report Number	:TERF2212002688E2	Test Site	:SAC G Chamber
Operation Mode	:802.11n20	Test Date	:2022-12-19
Test Frequency	:2462 MHz	Temp./Humi.	:20.8/52
Test Mode	:Bandedge	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	55.36	-3.82	51.54	54.00	-2.46
2483.500	Peak	65.10	-3.82	61.28	74.00	-12.72
2483.600	Average	54.98	-3.82	51.16	54.00	-2.84
2483.600	Peak	65.06	-3.82	61.24	74.00	-12.76

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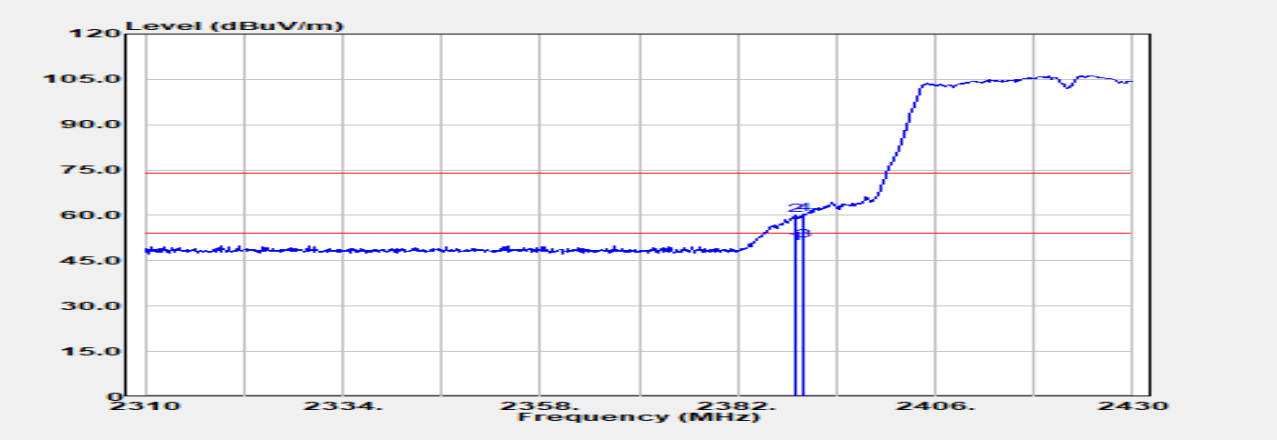
Report Number	:TERF2212002688E2	Test Site	:SAC G Chamber
Operation Mode	:802.11n40	Test Date	:2022-12-19
Test Frequency	:2422 MHz	Temp./Humi.	:20.8/52
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2389.080	Average	54.73	-3.80	50.93	54.00	-3.07
2389.080	Peak	63.91	-3.80	60.11	74.00	-13.89
2390.000	Average	55.51	-3.80	51.71	54.00	-2.29
2390.000	Peak	64.38	-3.80	60.58	74.00	-13.42

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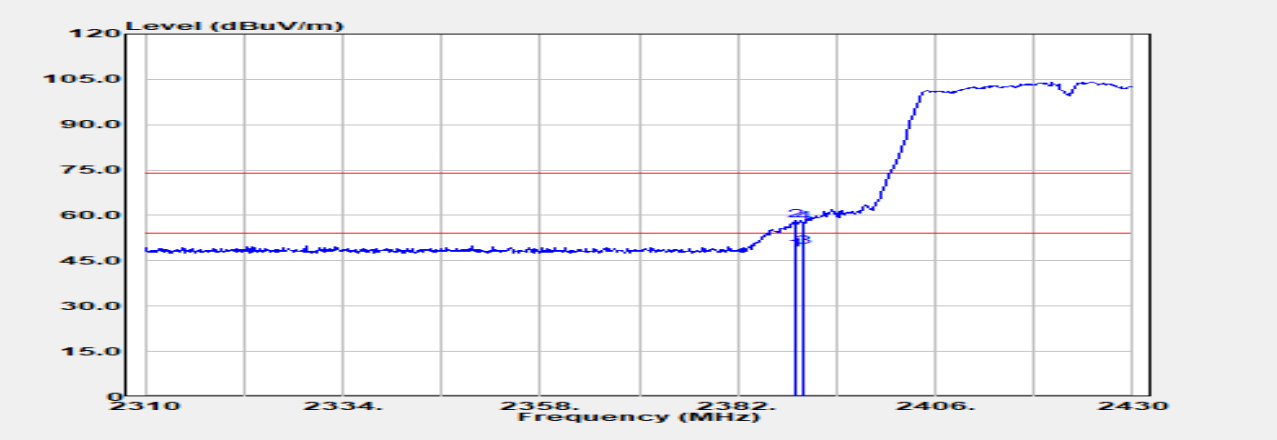
Report Number	:TERF2212002688E2	Test Site	:SAC G Chamber
Operation Mode	:802.11n40	Test Date	:2022-12-19
Test Frequency	:2422 MHz	Temp./Humi.	:20.8/52
Test Mode	:Bandedge	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2388.960	Average	52.45	-3.80	48.66	54.00	-5.34
2388.960	Peak	62.15	-3.80	58.36	74.00	-15.64
2390.000	Average	53.33	-3.80	49.53	54.00	-4.47
2390.000	Peak	61.54	-3.80	57.74	74.00	-16.26

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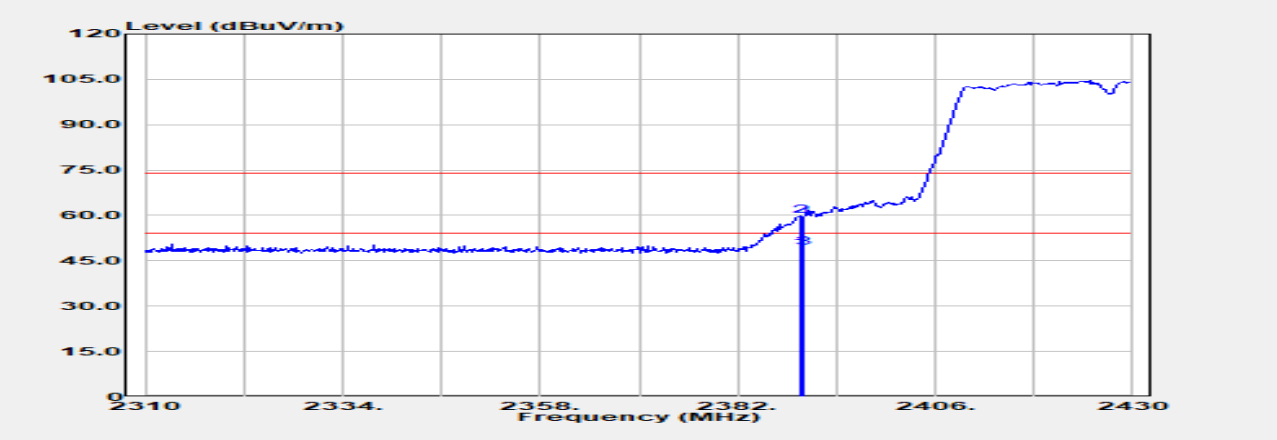
Report Number	:TERF2212002688E2	Test Site	:SAC G Chamber
Operation Mode	:802.11n40	Test Date	:2022-12-23
Test Frequency	:2427 MHz	Temp./Humi.	:22.1/53
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2389.560	Average	52.69	-3.80	48.90	54.00	-5.10
2389.560	Peak	63.78	-3.80	59.98	74.00	-14.02
2390.000	Average	53.14	-3.80	49.34	54.00	-4.66
2390.000	Peak	63.09	-3.80	59.29	74.00	-14.71

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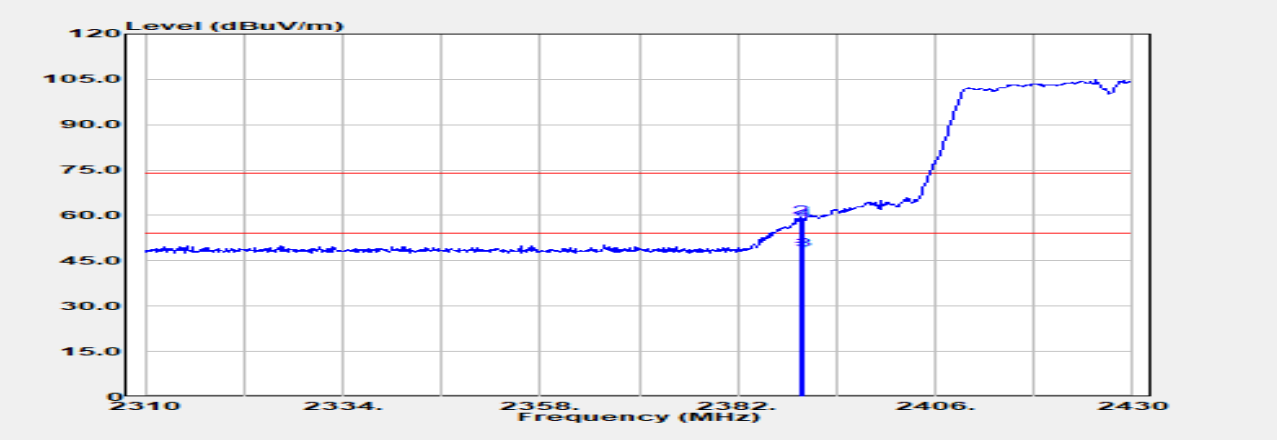
Report Number	:TERF2212002688E2	Test Site	:SAC G Chamber
Operation Mode	:802.11n40	Test Date	:2022-12-23
Test Frequency	:2427 MHz	Temp./Humi.	:22.1/53
Test Mode	:Bandedge	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2389.560	Average	51.96	-3.80	48.16	54.00	-5.84
2389.560	Peak	63.27	-3.80	59.47	74.00	-14.53
2390.000	Average	52.40	-3.80	48.60	54.00	-5.40
2390.000	Peak	62.16	-3.80	58.36	74.00	-15.64

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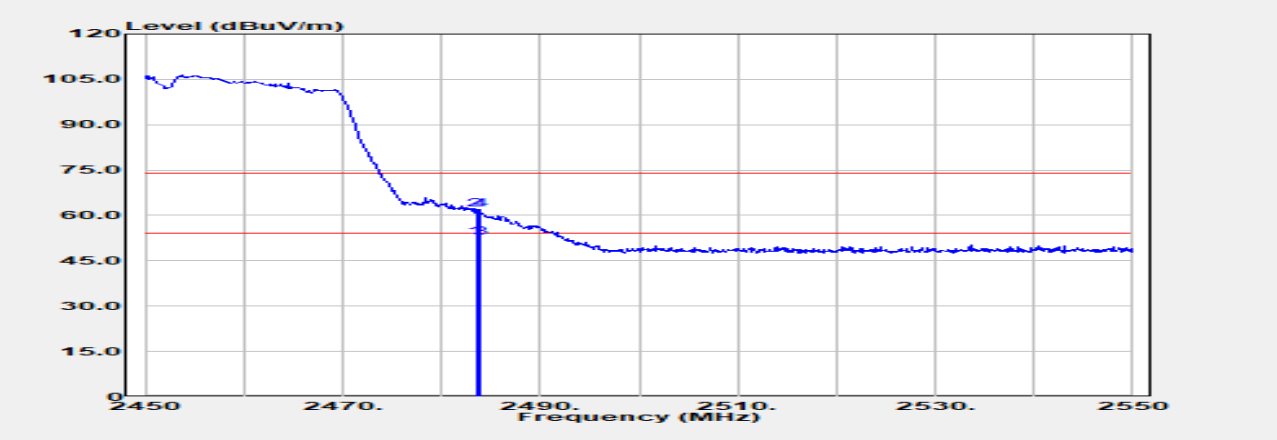
Report Number	:TERF2212002688E2	Test Site	:SAC G Chamber
Operation Mode	:802.11n40	Test Date	:2022-12-19
Test Frequency	:2452 MHz	Temp./Humi.	:20.8/52
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	56.46	-3.82	52.64	54.00	-1.36
2483.500	Peak	65.67	-3.82	61.85	74.00	-12.15
2483.800	Average	56.31	-3.82	52.49	54.00	-1.51
2483.800	Peak	65.85	-3.82	62.03	74.00	-11.97

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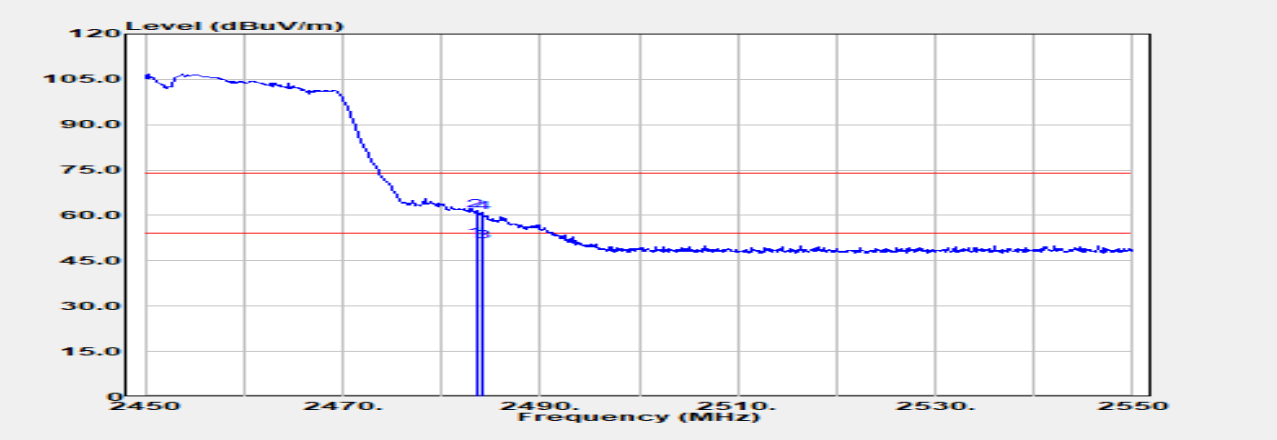
Report Number	:TERF2212002688E2	Test Site	:SAC G Chamber
Operation Mode	:802.11n40	Test Date	:2022-12-19
Test Frequency	:2452 MHz	Temp./Humi.	:20.8/52
Test Mode	:Bandedge	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	56.02	-3.82	52.20	54.00	-1.80
2483.500	Peak	65.42	-3.82	61.60	74.00	-12.40
2484.100	Average	55.12	-3.82	51.31	54.00	-2.69
2484.100	Peak	64.72	-3.82	60.91	74.00	-13.09

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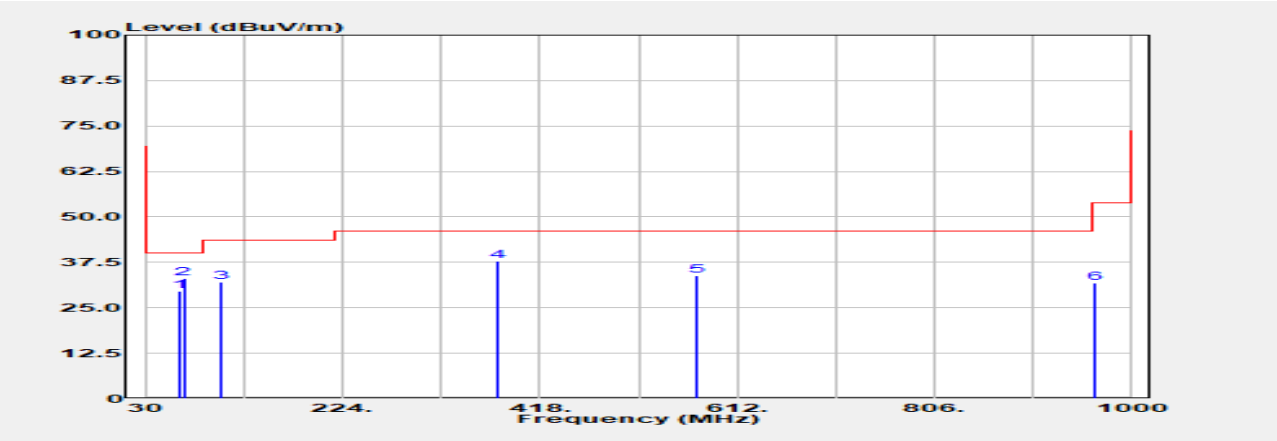
11.6.2 Spurious Emission:

Report Number	:TERF2212002688E2	Test Site	:SAC G Chamber
Operation Mode	:802.11g	Test Date	:2022-12-22
Test Frequency	:2437 MHz	Temp./Humi.	:19.6/49
Test Mode	:Tx	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
63.950	QP	43.50	-13.91	29.59	40.00	-10.41
67.830	QP	47.56	-14.43	33.13	40.00	-6.87
104.690	Peak	49.06	-17.06	32.00	43.50	-11.50
377.260	Peak	48.14	-10.42	37.72	46.00	-8.28
572.230	Peak	39.58	-5.86	33.72	46.00	-12.28
964.110	Peak	31.22	0.53	31.74	54.00	-22.26

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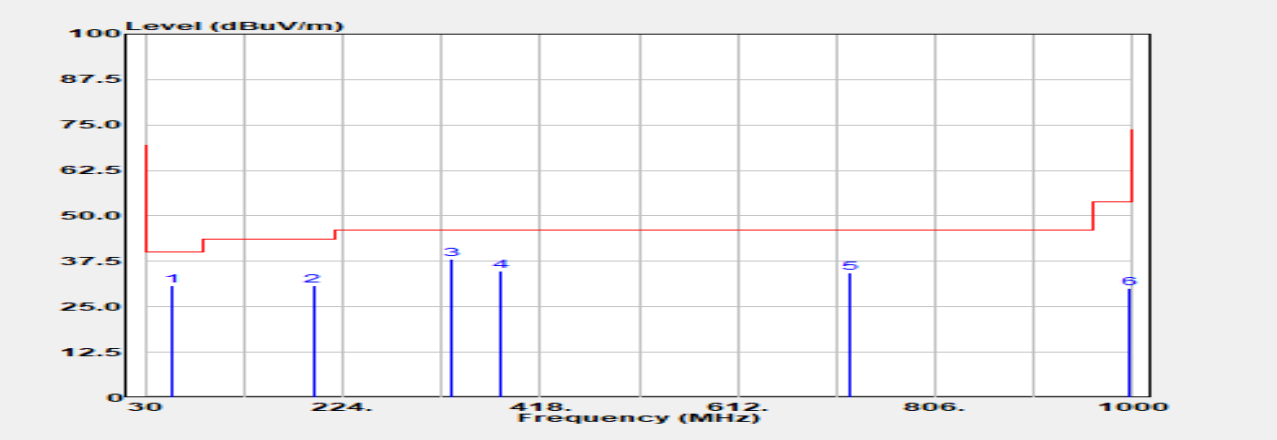
Report Number	:TERF2212002688E2	Test Site	:SAC G Chamber
Operation Mode	:802.11g	Test Date	:2022-12-22
Test Frequency	:2437 MHz	Temp./Humi.	:19.6/49
Test Mode	:Tx	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
55.220	Peak	44.05	-13.29	30.76	40.00	-9.24
194.900	Peak	46.91	-16.10	30.81	43.50	-12.69
331.670	Peak	49.80	-11.61	38.19	46.00	-7.81
379.200	Peak	45.20	-10.37	34.83	46.00	-11.17
722.580	Peak	36.90	-2.62	34.27	46.00	-11.73
996.120	Peak	30.00	0.09	30.09	54.00	-23.91

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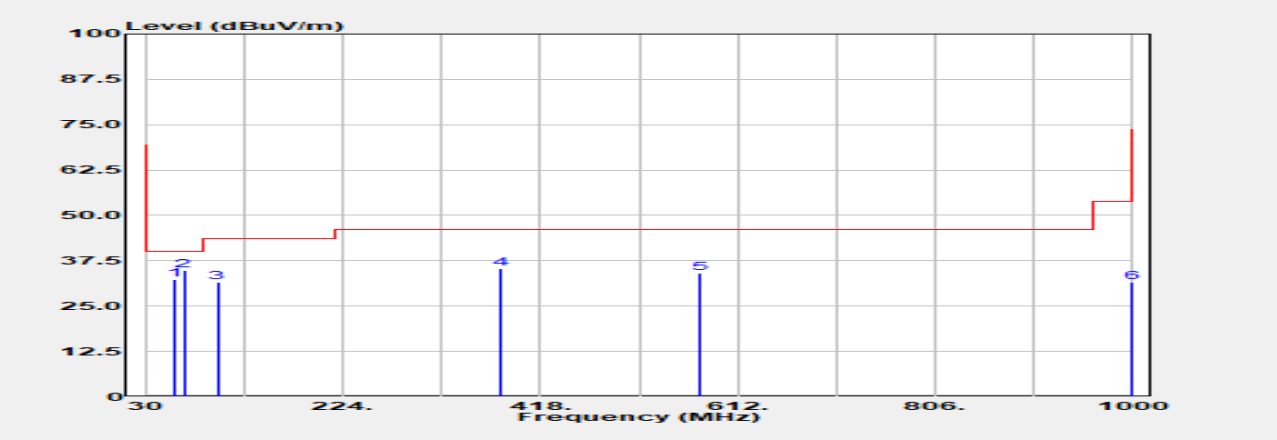
Report Number	:TERF2212002688E2	Test Site	:SAC G Chamber
Operation Mode	:802.11n40	Test Date	:2022-12-22
Test Frequency	:2437 MHz	Temp./Humi.	:19.6/49
Test Mode	:Tx	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
58.130	QP	45.88	-13.44	32.43	40.00	-7.57
67.830	QP	49.34	-14.43	34.91	40.00	-5.09
100.810	Peak	49.38	-17.83	31.55	43.50	-11.95
379.200	Peak	45.63	-10.37	35.26	46.00	-10.74
574.170	Peak	39.94	-5.95	33.99	46.00	-12.01
999.030	Peak	31.22	0.44	31.67	54.00	-22.33

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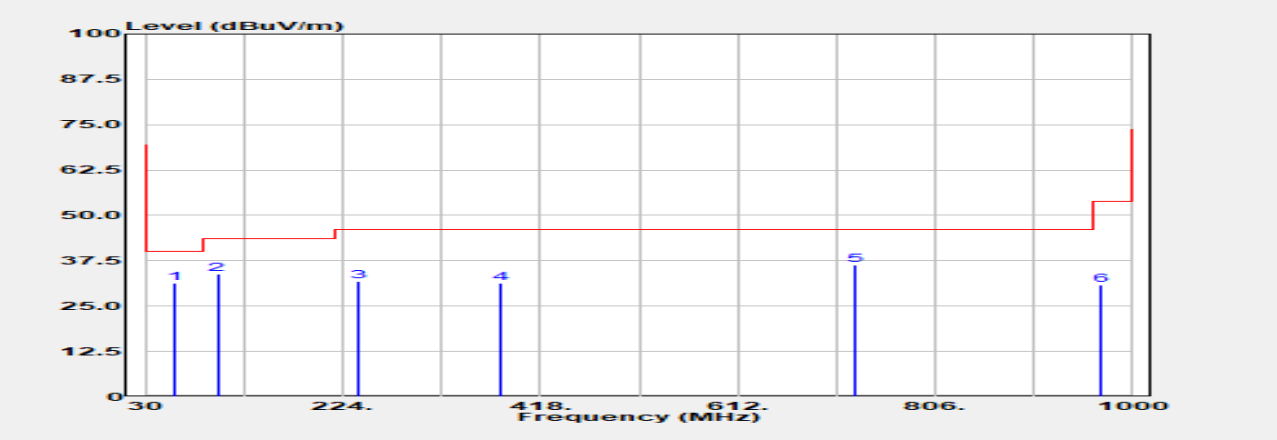
Report Number	:TERF2212002688E2	Test Site	:SAC G Chamber
Operation Mode	:802.11n40	Test Date	:2022-12-22
Test Frequency	:2437 MHz	Temp./Humi.	:19.6/49
Test Mode	:Tx	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
59.100	Peak	45.01	-13.61	31.40	40.00	-8.60
100.810	Peak	51.78	-17.83	33.95	43.50	-9.55
240.490	Peak	46.45	-14.66	31.79	46.00	-14.21
380.170	Peak	41.58	-10.35	31.23	46.00	-14.77
726.460	Peak	38.84	-2.59	36.25	46.00	-9.75
967.990	Peak	30.59	0.21	30.80	54.00	-23.20

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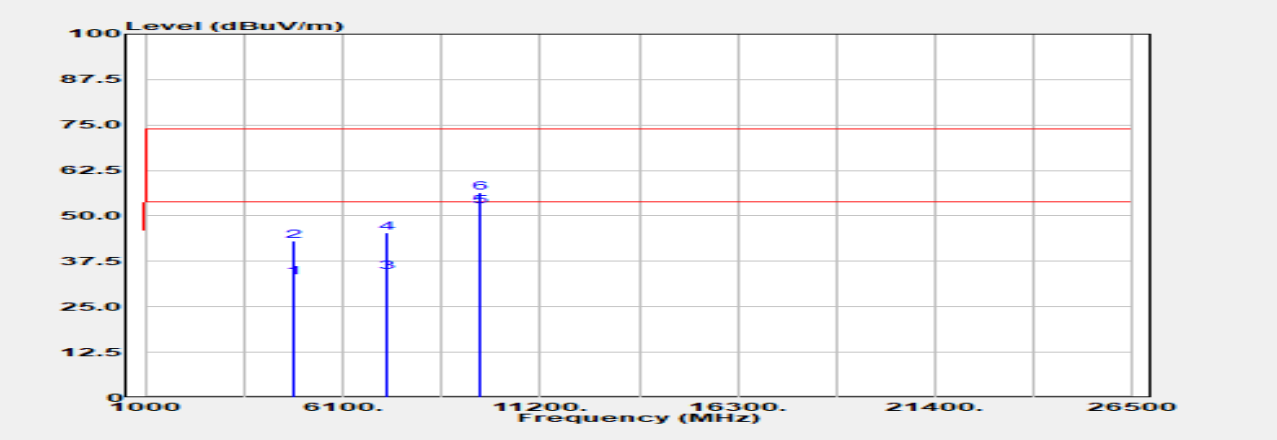
Report Number	:TERF2212002688E2	Test Site	:SAC G Chamber
Operation Mode	:802.11b	Test Date	:2022-12-20
Test Frequency	:2412 MHz	Temp./Humi.	:22.8/51
Test Mode	:Tx	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.000	Average	29.82	3.31	33.13	54.00	-20.87
4824.000	Peak	39.76	3.31	43.07	74.00	-30.93
7236.000	Average	26.92	7.56	34.48	54.00	-19.52
7236.000	Peak	37.79	7.56	45.35	74.00	-28.65
9648.000	Average	43.98	8.69	52.67	54.00	-1.33
9648.000	Peak	47.60	8.69	56.29	74.00	-17.71

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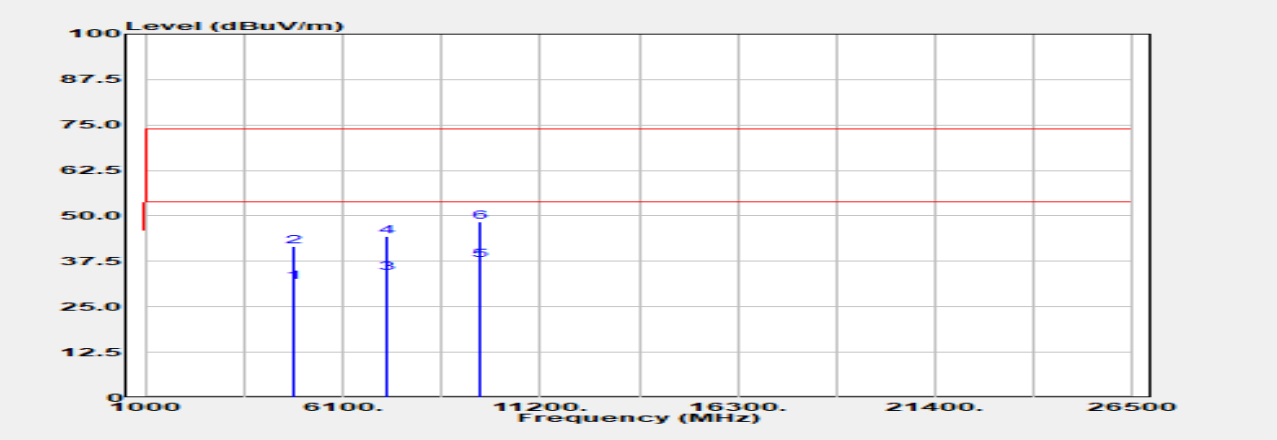
Report Number	:TERF2212002688E2	Test Site	:SAC G Chamber
Operation Mode	:802.11b	Test Date	:2022-12-20
Test Frequency	:2412 MHz	Temp./Humi.	:22.8/51
Test Mode	:Tx	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.000	Average	28.47	3.31	31.78	54.00	-22.22
4824.000	Peak	38.20	3.31	41.51	74.00	-32.49
7236.000	Average	26.76	7.56	34.32	54.00	-19.68
7236.000	Peak	36.69	7.56	44.25	74.00	-29.75
9648.000	Average	29.24	8.69	37.93	54.00	-16.07
9648.000	Peak	39.57	8.69	48.26	74.00	-25.74

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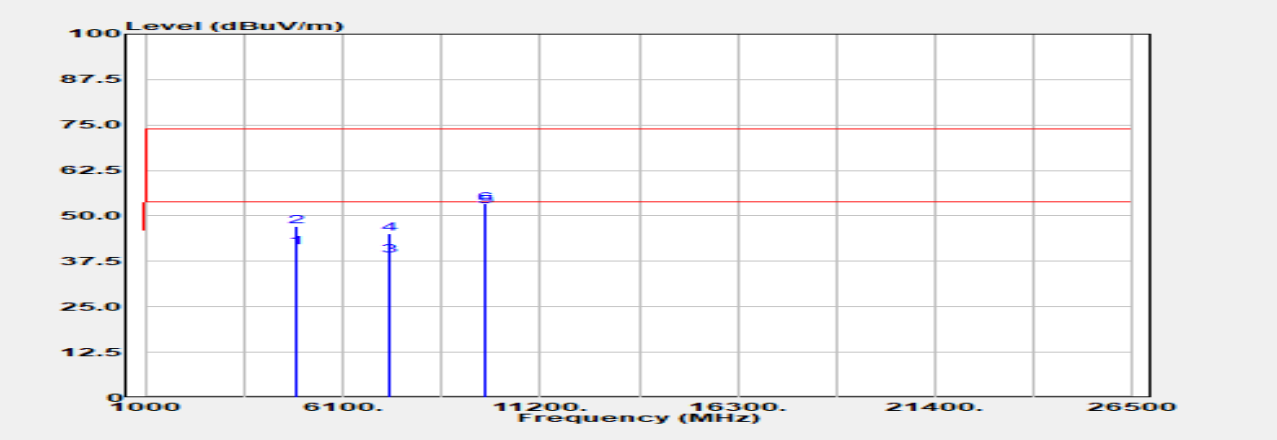
Report Number	:TERF2212002688E2	Test Site	:SAC G Chamber
Operation Mode	:802.11b	Test Date	:2022-12-20
Test Frequency	:2437 MHz	Temp./Humi.	:22.8/51
Test Mode	:Tx	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.000	Average	37.83	3.48	41.31	54.00	-12.69
4874.000	Peak	43.62	3.48	47.10	74.00	-26.90
7311.000	Average	31.43	7.62	39.05	54.00	-14.95
7311.000	Peak	37.46	7.62	45.08	74.00	-28.92
9748.000	Average	43.66	8.92	52.58	54.00	-1.42
9748.000	Peak	44.50	8.92	53.42	74.00	-20.58

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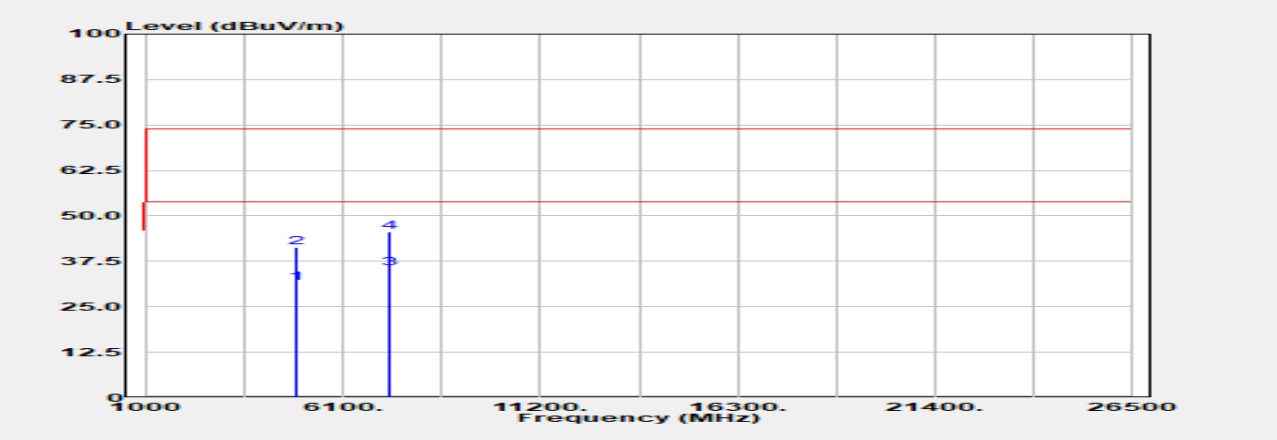
Report Number	:TERF2212002688E2	Test Site	:SAC G Chamber
Operation Mode	:802.11b	Test Date	:2022-12-20
Test Frequency	:2437 MHz	Temp./Humi.	:22.8/51
Test Mode	:Tx	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.000	Average	28.13	3.48	31.61	54.00	-22.39
4874.000	Peak	37.81	3.48	41.29	74.00	-32.71
7311.000	Average	27.93	7.62	35.55	54.00	-18.45
7311.000	Peak	38.01	7.62	45.63	74.00	-28.37

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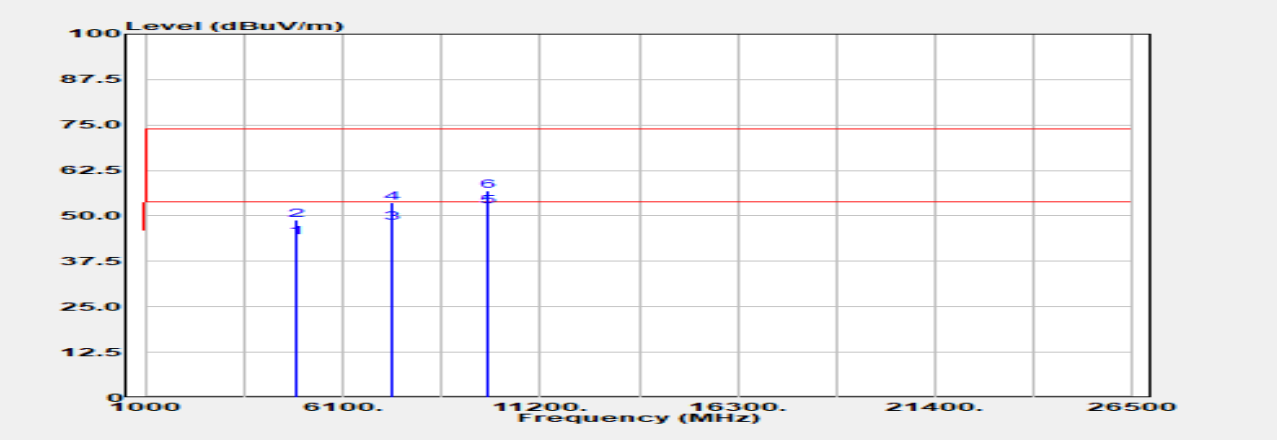
Report Number	:TERF2212002688E2	Test Site	:SAC G Chamber
Operation Mode	:802.11b	Test Date	:2022-12-20
Test Frequency	:2462 MHz	Temp./Humi.	:22.8/51
Test Mode	:Tx	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.000	Average	40.68	3.41	44.10	54.00	-9.90
4924.000	Peak	45.48	3.41	48.90	74.00	-25.10
7386.000	Average	40.44	7.74	48.18	54.00	-5.82
7386.000	Peak	45.97	7.74	53.72	74.00	-20.28
9848.000	Average	43.78	8.95	52.73	54.00	-1.27
9848.000	Peak	47.84	8.95	56.80	74.00	-17.20

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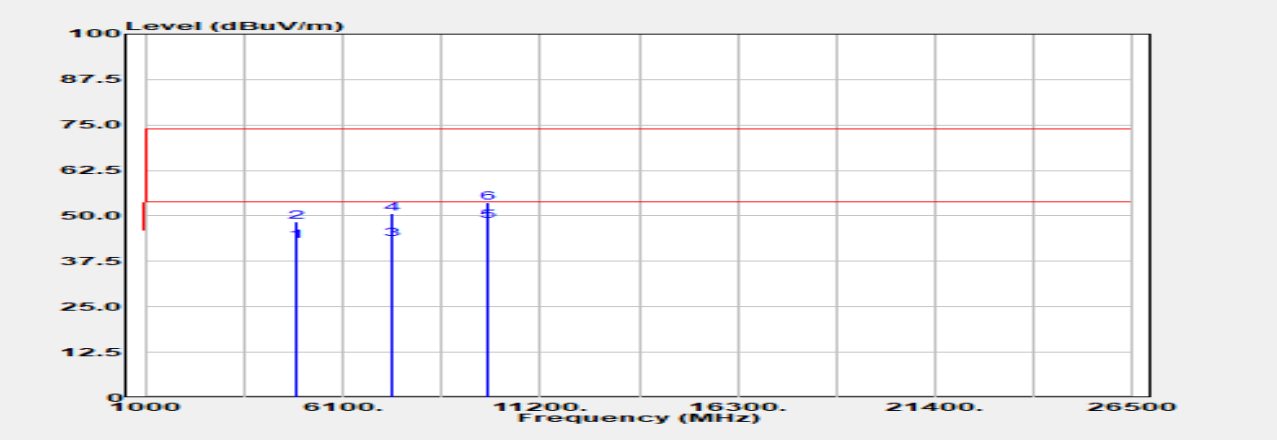
Report Number	:TERF2212002688E2	Test Site	:SAC G Chamber
Operation Mode	:802.11b	Test Date	:2022-12-20
Test Frequency	:2462 MHz	Temp./Humi.	:22.8/51
Test Mode	:Tx	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.000	Average	39.81	3.41	43.22	54.00	-10.78
4924.000	Peak	44.94	3.41	48.35	74.00	-25.65
7386.000	Average	35.79	7.74	43.53	54.00	-10.47
7386.000	Peak	42.96	7.74	50.71	74.00	-23.29
9848.000	Average	39.76	8.95	48.71	54.00	-5.29
9848.000	Peak	44.76	8.95	53.71	74.00	-20.29

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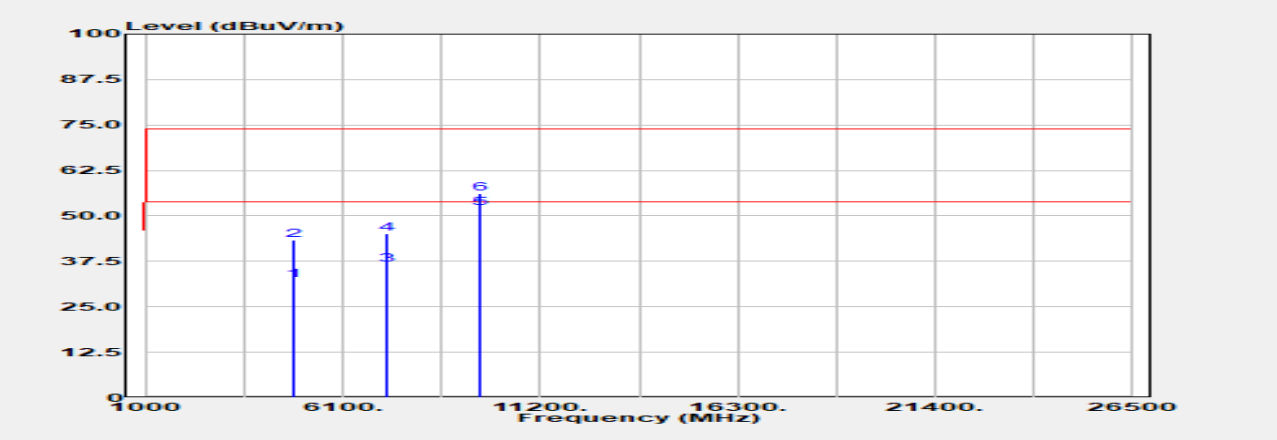
Report Number	:TERF2212002688E2	Test Site	:SAC G Chamber
Operation Mode	:802.11g	Test Date	:2022-12-20
Test Frequency	:2412 MHz	Temp./Humi.	:22.8/51
Test Mode	:Tx	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.000	Average	28.99	3.31	32.30	54.00	-21.70
4824.000	Peak	40.06	3.31	43.37	74.00	-30.63
7236.000	Average	29.00	7.56	36.56	54.00	-17.44
7236.000	Peak	37.53	7.56	45.08	74.00	-28.92
9648.000	Average	43.47	8.69	52.16	54.00	-1.84
9648.000	Peak	47.40	8.69	56.09	74.00	-17.91

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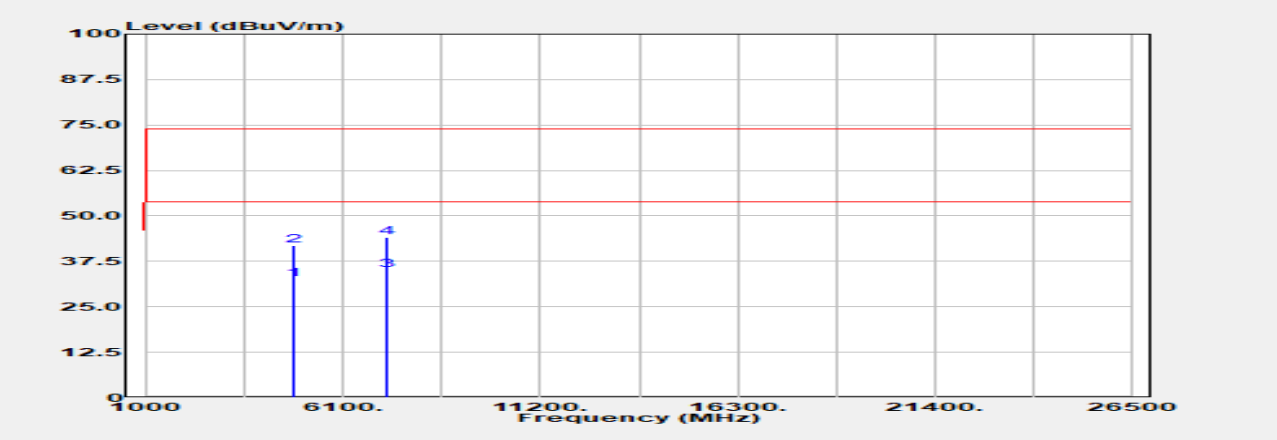
Report Number	:TERF2212002688E2	Test Site	:SAC G Chamber
Operation Mode	:802.11g	Test Date	:2022-12-20
Test Frequency	:2412 MHz	Temp./Humi.	:22.8/51
Test Mode	:Tx	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.000	Average	29.37	3.31	32.68	54.00	-21.32
4824.000	Peak	38.51	3.31	41.82	74.00	-32.18
7236.000	Average	27.44	7.56	35.00	54.00	-19.00
7236.000	Peak	36.64	7.56	44.20	74.00	-29.80

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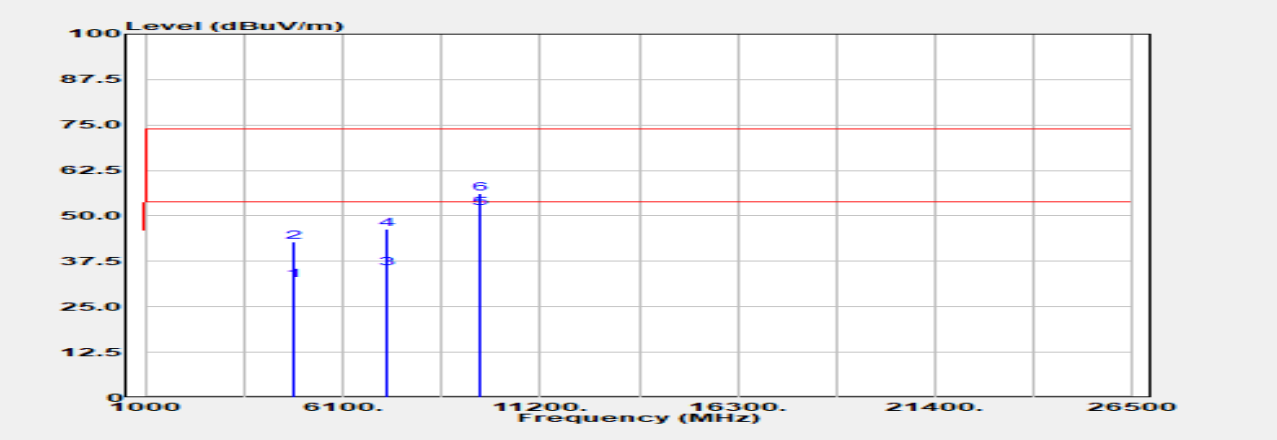
Report Number	:TERF2212002688E2	Test Site	:SAC G Chamber
Operation Mode	:802.11g	Test Date	:2022-12-22
Test Frequency	:2417 MHz	Temp./Humi.	:19.6/49
Test Mode	:Tx	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4834.000	Average	29.03	3.25	32.28	54.00	-21.72
4834.000	Peak	39.60	3.25	42.85	74.00	-31.15
7251.000	Average	27.41	8.15	35.56	54.00	-18.44
7251.000	Peak	38.23	8.15	46.38	74.00	-27.62
9668.000	Average	43.06	9.00	52.07	54.00	-1.93
9668.000	Peak	47.20	9.00	56.21	74.00	-17.79

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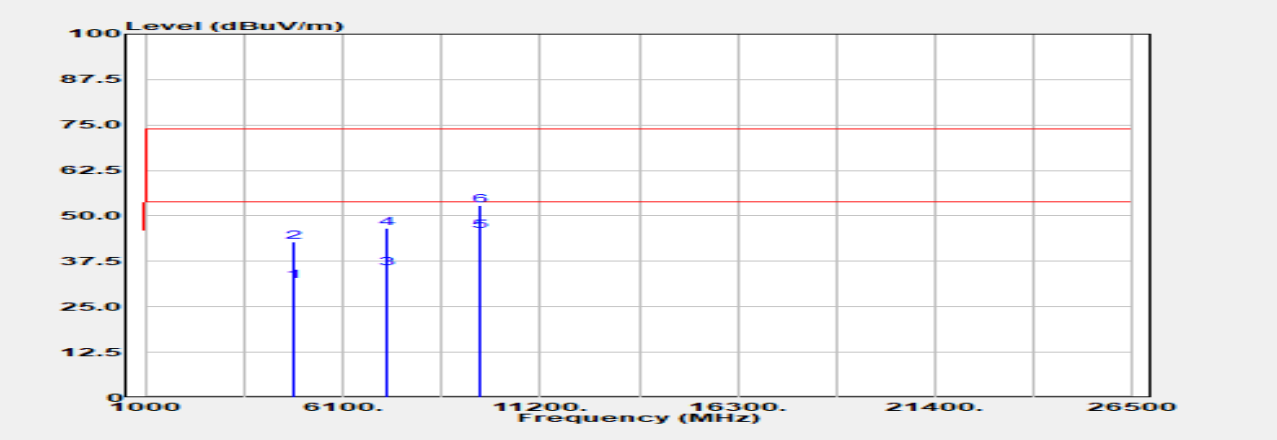
Report Number	:TERF2212002688E2	Test Site	:SAC G Chamber
Operation Mode	:802.11g	Test Date	:2022-12-22
Test Frequency	:2417 MHz	Temp./Humi.	:19.6/49
Test Mode	:Tx	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4834.000	Average	28.88	3.25	32.13	54.00	-21.87
4834.000	Peak	39.52	3.25	42.77	74.00	-31.23
7251.000	Average	27.51	8.15	35.65	54.00	-18.35
7251.000	Peak	38.54	8.15	46.69	74.00	-27.31
9668.000	Average	36.84	9.00	45.84	54.00	-8.16
9668.000	Peak	43.82	9.00	52.82	74.00	-21.18

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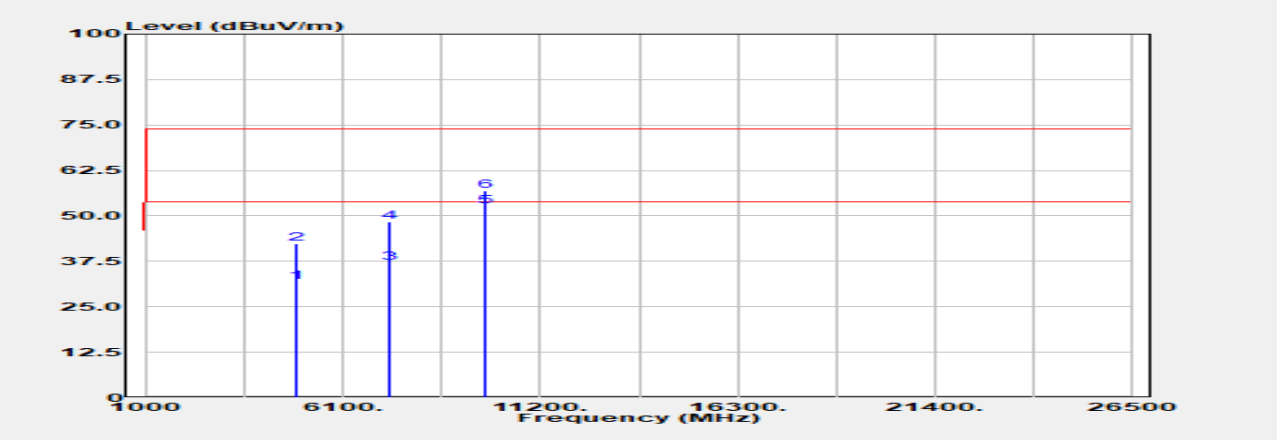
Report Number	:TERF2212002688E2	Test Site	:SAC G Chamber
Operation Mode	:802.11g	Test Date	:2022-12-20
Test Frequency	:2437 MHz	Temp./Humi.	:22.8/51
Test Mode	:Tx	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.000	Average	28.46	3.48	31.94	54.00	-22.06
4874.000	Peak	38.96	3.48	42.44	74.00	-31.56
7311.000	Average	29.46	7.62	37.09	54.00	-16.91
7311.000	Peak	40.72	7.62	48.34	74.00	-25.66
9748.000	Average	43.67	8.92	52.59	54.00	-1.41
9748.000	Peak	48.02	8.92	56.94	74.00	-17.06

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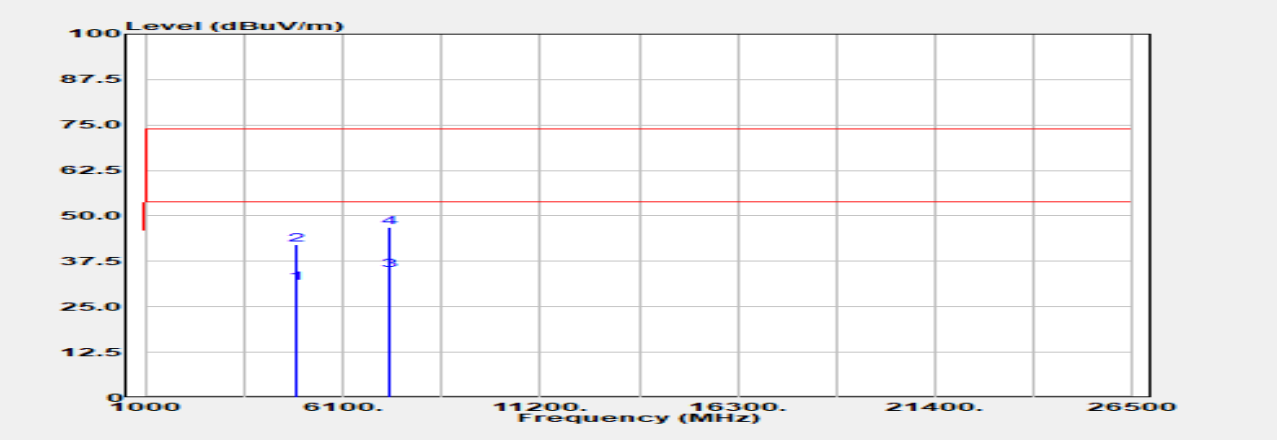
Report Number	:TERF2212002688E2	Test Site	:SAC G Chamber
Operation Mode	:802.11g	Test Date	:2022-12-20
Test Frequency	:2437 MHz	Temp./Humi.	:22.8/51
Test Mode	:Tx	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.000	Average	28.15	3.48	31.63	54.00	-22.37
4874.000	Peak	38.61	3.48	42.09	74.00	-31.91
7311.000	Average	27.52	7.62	35.14	54.00	-18.86
7311.000	Peak	39.14	7.62	46.76	74.00	-27.24

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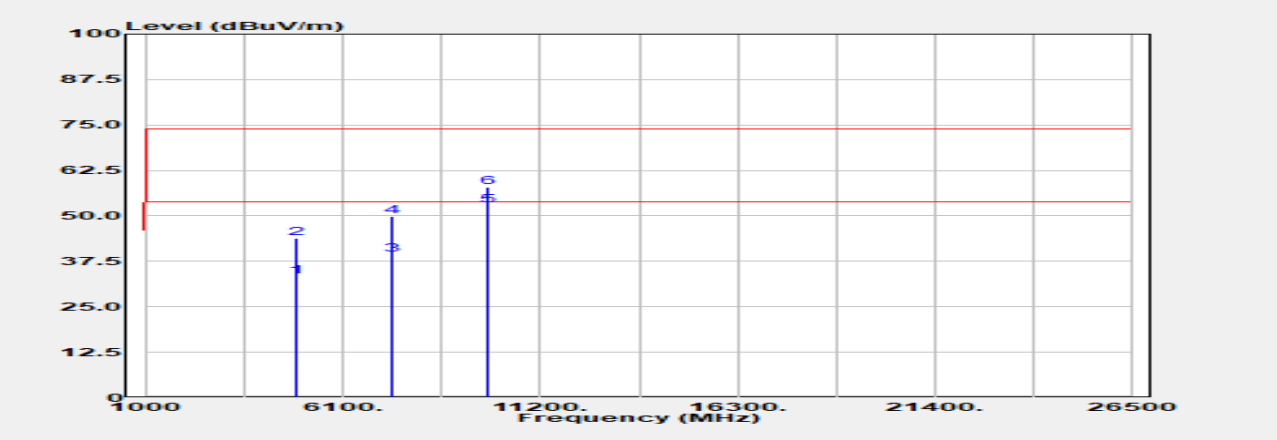
Report Number	:TERF2212002688E2	Test Site	:SAC G Chamber
Operation Mode	:802.11g	Test Date	:2022-12-20
Test Frequency	:2462 MHz	Temp./Humi.	:22.8/51
Test Mode	:Tx	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.000	Average	29.93	3.41	33.34	54.00	-20.66
4924.000	Peak	40.57	3.41	43.98	74.00	-30.02
7386.000	Average	31.49	7.74	39.24	54.00	-14.76
7386.000	Peak	42.24	7.74	49.98	74.00	-24.02
9848.000	Average	44.03	8.95	52.98	54.00	-1.02
9848.000	Peak	48.82	8.95	57.77	74.00	-16.23

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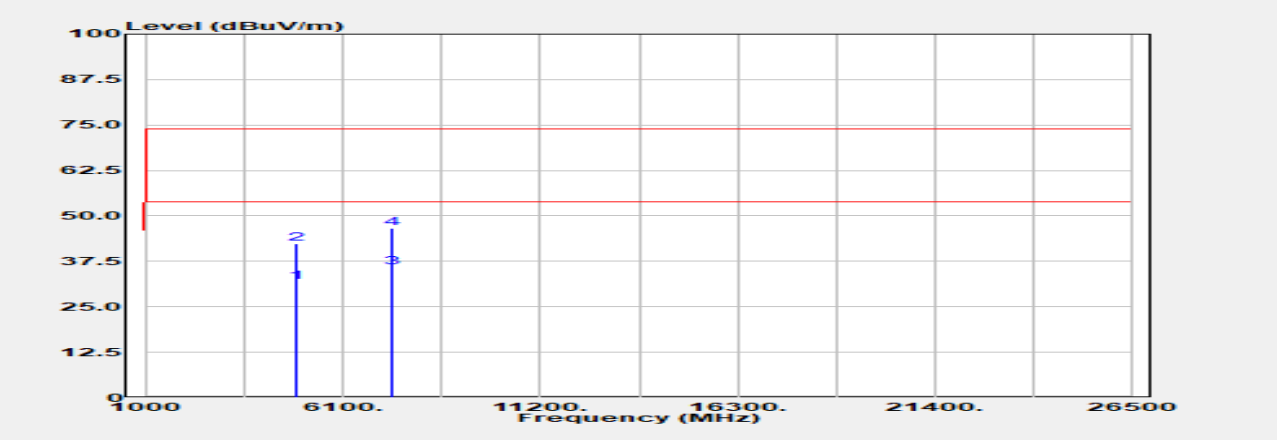
Report Number	:TERF2212002688E2	Test Site	:SAC G Chamber
Operation Mode	:802.11g	Test Date	:2022-12-20
Test Frequency	:2462 MHz	Temp./Humi.	:22.8/51
Test Mode	:Tx	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.000	Average	28.44	3.41	31.85	54.00	-22.15
4924.000	Peak	38.89	3.41	42.30	74.00	-31.70
7386.000	Average	28.01	7.74	35.76	54.00	-18.24
7386.000	Peak	38.79	7.74	46.53	74.00	-27.47

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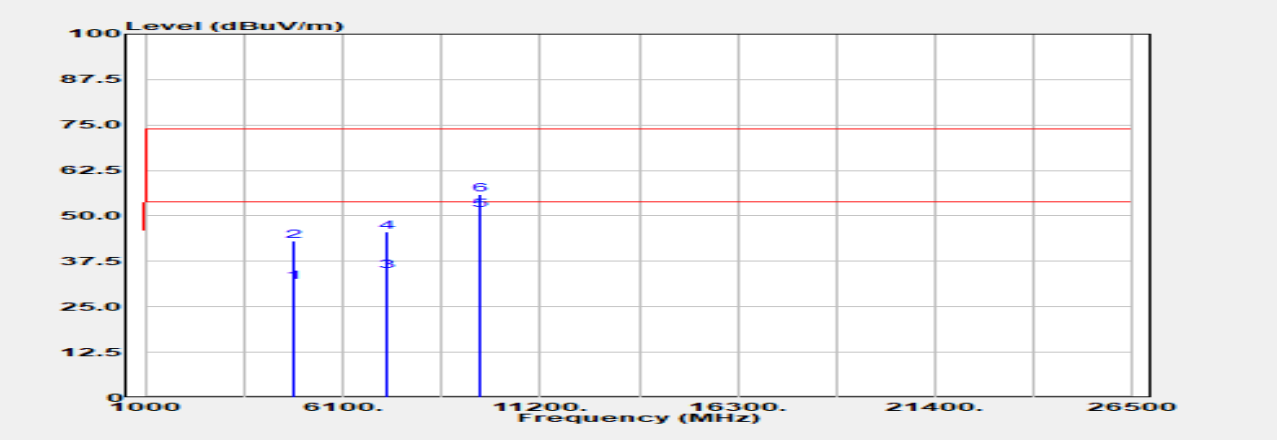
Report Number	:TERF2212002688E2	Test Site	:SAC G Chamber
Operation Mode	:802.11n20	Test Date	:2022-12-20
Test Frequency	:2412 MHz	Temp./Humi.	:22.8/51
Test Mode	:Tx	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.000	Average	28.63	3.31	31.94	54.00	-22.06
4824.000	Peak	39.80	3.31	43.11	74.00	-30.89
7236.000	Average	27.20	7.56	34.76	54.00	-19.24
7236.000	Peak	38.05	7.56	45.61	74.00	-28.39
9648.000	Average	43.01	8.69	51.70	54.00	-2.30
9648.000	Peak	47.11	8.69	55.80	74.00	-18.20

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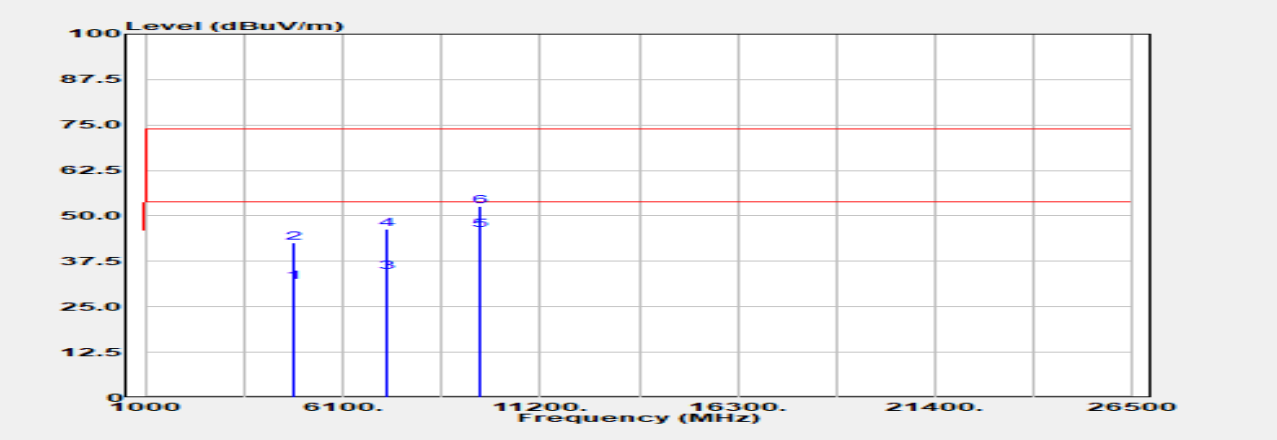
Report Number	:TERF2212002688E2	Test Site	:SAC G Chamber
Operation Mode	:802.11n20	Test Date	:2022-12-20
Test Frequency	:2412 MHz	Temp./Humi.	:22.8/51
Test Mode	:Tx	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.000	Average	28.44	3.31	31.75	54.00	-22.25
4824.000	Peak	39.23	3.31	42.54	74.00	-31.46
7236.000	Average	27.06	7.56	34.61	54.00	-19.39
7236.000	Peak	38.90	7.56	46.45	74.00	-27.55
9648.000	Average	37.36	8.69	46.05	54.00	-7.95
9648.000	Peak	43.87	8.69	52.56	74.00	-21.44

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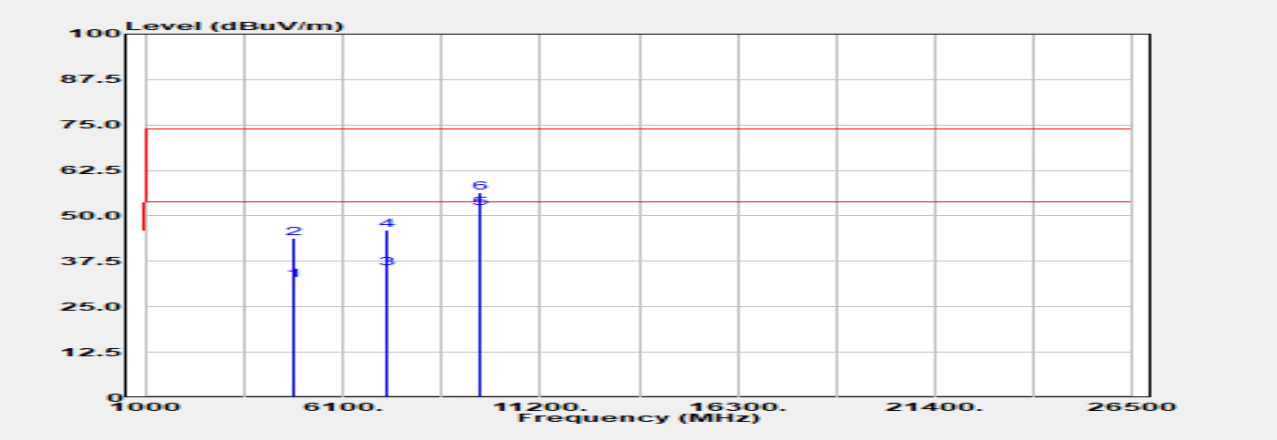
Report Number	:TERF2212002688E2	Test Site	:SAC G Chamber
Operation Mode	:802.11n20	Test Date	:2022-12-22
Test Frequency	:2417 MHz	Temp./Humi.	:19.6/49
Test Mode	:Tx	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4834.000	Average	29.10	3.25	32.35	54.00	-21.65
4834.000	Peak	40.51	3.25	43.76	74.00	-30.24
7251.000	Average	27.43	8.15	35.58	54.00	-18.42
7251.000	Peak	37.89	8.15	46.03	74.00	-27.97
9668.000	Average	43.07	9.00	52.07	54.00	-1.93
9668.000	Peak	47.40	9.00	56.40	74.00	-17.60

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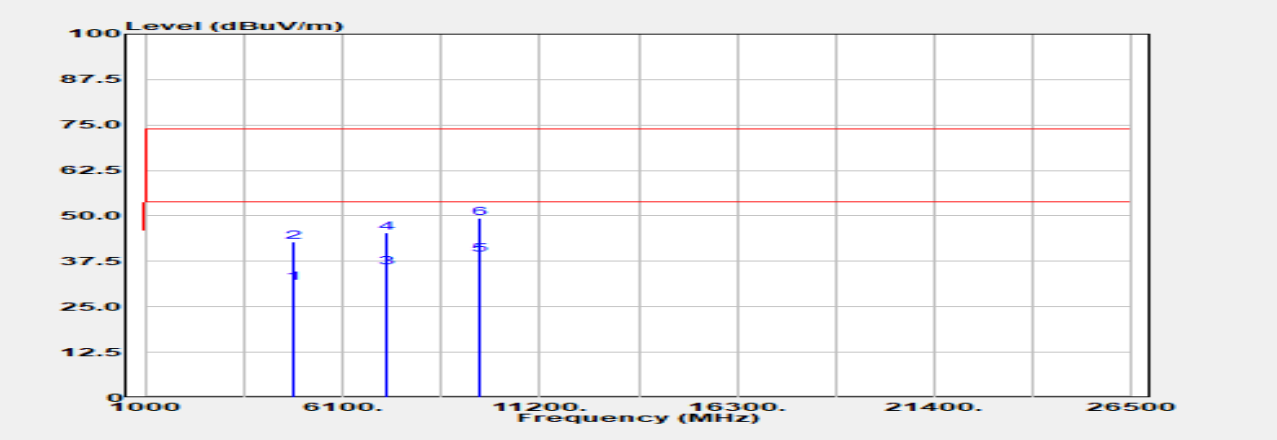
Report Number	:TERF2212002688E2	Test Site	:SAC G Chamber
Operation Mode	:802.11n20	Test Date	:2022-12-22
Test Frequency	:2417 MHz	Temp./Humi.	:19.6/49
Test Mode	:Tx	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4834.000	Average	28.34	3.25	31.59	54.00	-22.41
4834.000	Peak	39.58	3.25	42.82	74.00	-31.18
7251.000	Average	27.63	8.15	35.78	54.00	-18.22
7251.000	Peak	37.25	8.15	45.40	74.00	-28.60
9668.000	Average	30.35	9.00	39.35	54.00	-14.65
9668.000	Peak	40.37	9.00	49.38	74.00	-24.62

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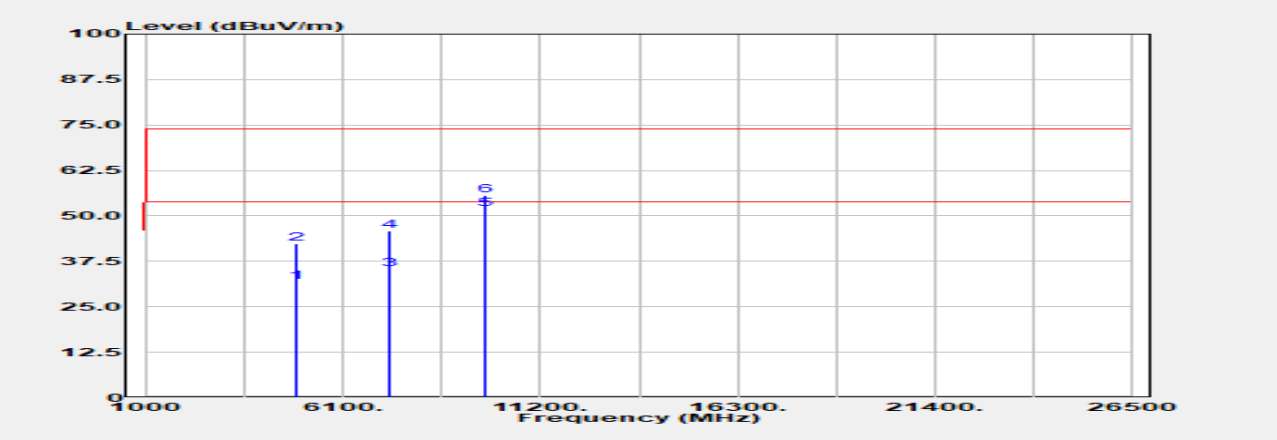
Report Number	:TERF2212002688E2	Test Site	:SAC G Chamber
Operation Mode	:802.11n20	Test Date	:2022-12-20
Test Frequency	:2437 MHz	Temp./Humi.	:22.8/51
Test Mode	:Tx	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.000	Average	28.26	3.48	31.74	54.00	-22.26
4874.000	Peak	38.95	3.48	42.43	74.00	-31.57
7311.000	Average	27.63	7.62	35.25	54.00	-18.75
7311.000	Peak	38.23	7.62	45.85	74.00	-28.15
9748.000	Average	43.05	8.92	51.97	54.00	-2.03
9748.000	Peak	46.75	8.92	55.67	74.00	-18.33

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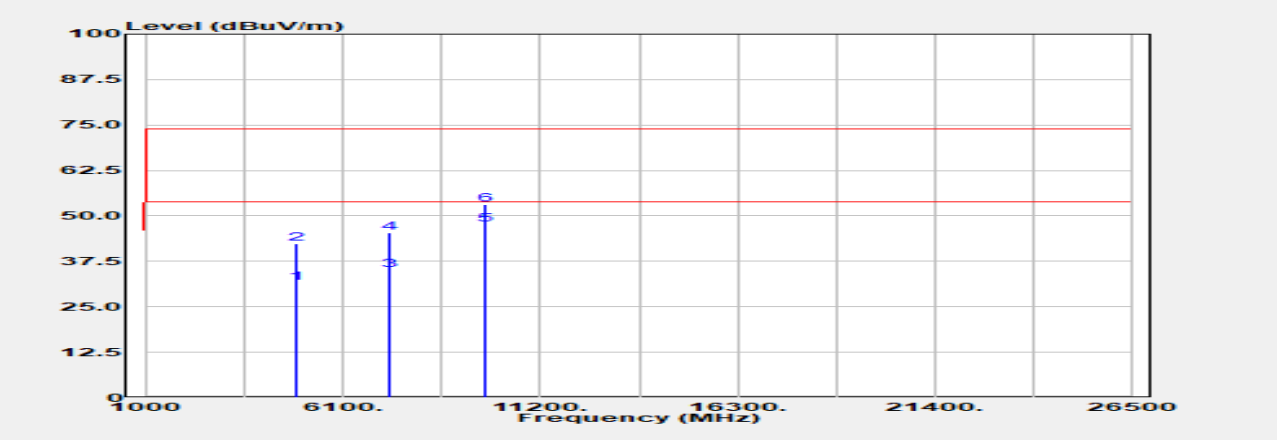
Report Number	:TERF2212002688E2	Test Site	:SAC G Chamber
Operation Mode	:802.11n20	Test Date	:2022-12-20
Test Frequency	:2437 MHz	Temp./Humi.	:22.8/51
Test Mode	:Tx	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.000	Average	28.08	3.48	31.56	54.00	-22.44
4874.000	Peak	38.88	3.48	42.36	74.00	-31.64
7311.000	Average	27.57	7.62	35.19	54.00	-18.81
7311.000	Peak	37.80	7.62	45.42	74.00	-28.58
9748.000	Average	38.71	8.92	47.63	54.00	-6.37
9748.000	Peak	44.33	8.92	53.25	74.00	-20.75

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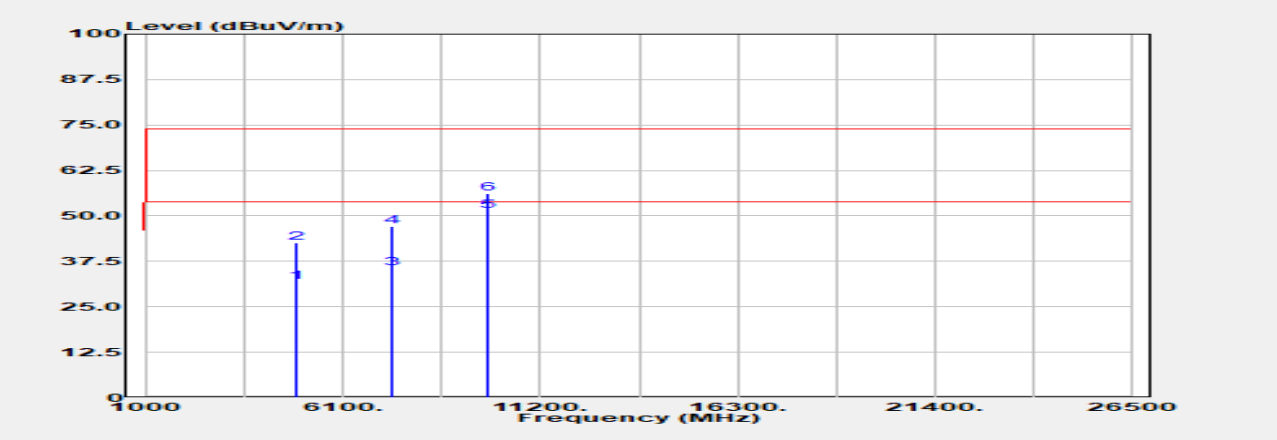
Report Number	:TERF2212002688E2	Test Site	:SAC G Chamber
Operation Mode	:802.11n20	Test Date	:2022-12-20
Test Frequency	:2462 MHz	Temp./Humi.	:22.8/51
Test Mode	:Tx	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.000	Average	28.43	3.41	31.84	54.00	-22.16
4924.000	Peak	39.07	3.41	42.49	74.00	-31.51
7386.000	Average	27.87	7.74	35.61	54.00	-18.39
7386.000	Peak	39.41	7.74	47.16	74.00	-26.84
9848.000	Average	42.51	8.95	51.46	54.00	-2.54
9848.000	Peak	47.30	8.95	56.25	74.00	-17.75

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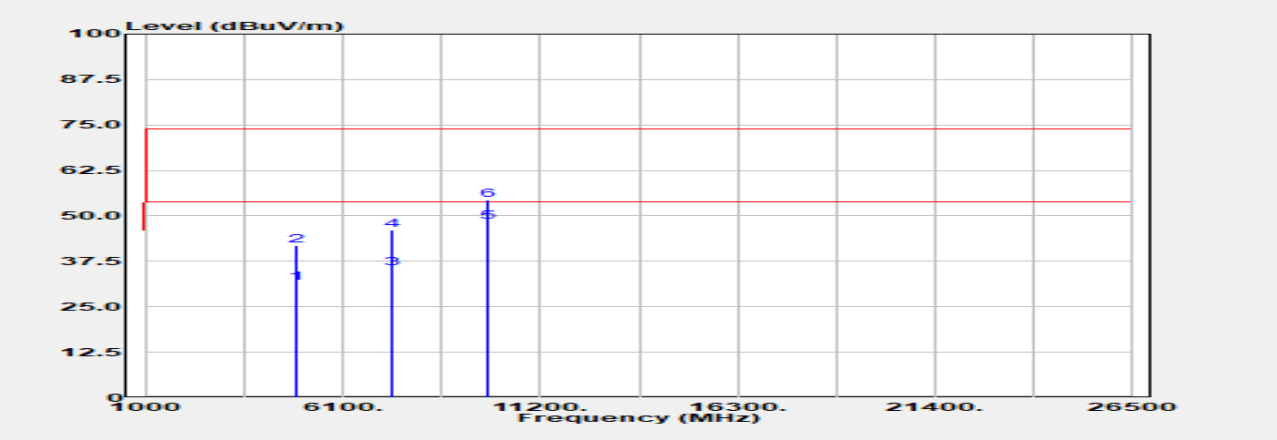
Report Number	:TERF2212002688E2	Test Site	:SAC G Chamber
Operation Mode	:802.11n20	Test Date	:2022-12-20
Test Frequency	:2462 MHz	Temp./Humi.	:22.8/51
Test Mode	:Tx	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.000	Average	28.11	3.41	31.52	54.00	-22.48
4924.000	Peak	38.37	3.41	41.79	74.00	-32.21
7386.000	Average	27.82	7.74	35.57	54.00	-18.43
7386.000	Peak	38.34	7.74	46.08	74.00	-27.92
9848.000	Average	39.31	8.95	48.26	54.00	-5.74
9848.000	Peak	45.55	8.95	54.50	74.00	-19.50

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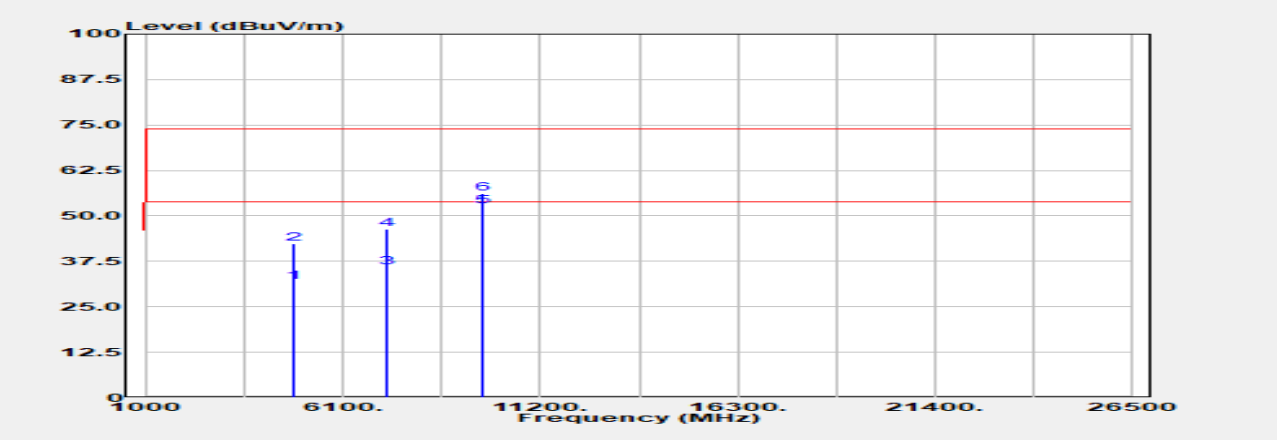
Report Number	:TERF2212002688E2	Test Site	:SAC G Chamber
Operation Mode	:802.11n40	Test Date	:2022-12-20
Test Frequency	:2422 MHz	Temp./Humi.	:22.8/51
Test Mode	:Tx	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4844.000	Average	28.79	3.16	31.95	54.00	-22.05
4844.000	Peak	39.24	3.16	42.41	74.00	-31.59
7266.000	Average	27.58	8.37	35.95	54.00	-18.05
7266.000	Peak	38.11	8.37	46.48	74.00	-27.52
9688.000	Average	43.42	9.16	52.58	54.00	-1.42
9688.000	Peak	47.02	9.16	56.18	74.00	-17.82

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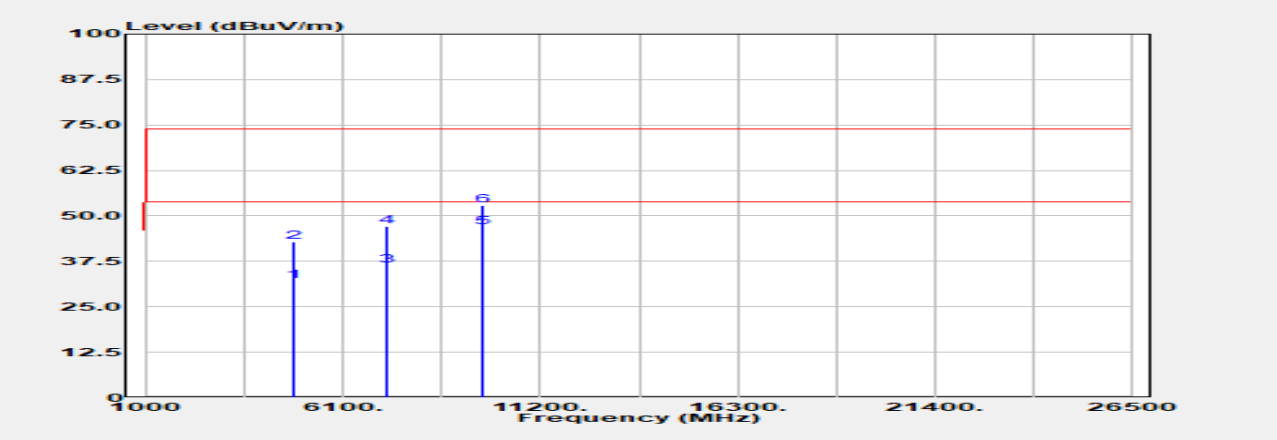
Report Number	:TERF2212002688E2	Test Site	:SAC G Chamber
Operation Mode	:802.11n40	Test Date	:2022-12-20
Test Frequency	:2422 MHz	Temp./Humi.	:22.8/51
Test Mode	:Tx	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4844.000	Average	29.03	3.16	32.20	54.00	-21.80
4844.000	Peak	39.70	3.16	42.86	74.00	-31.14
7266.000	Average	27.89	8.37	36.26	54.00	-17.74
7266.000	Peak	38.74	8.37	47.11	74.00	-26.89
9688.000	Average	37.72	9.16	46.88	54.00	-7.12
9688.000	Peak	43.85	9.16	53.01	74.00	-20.99

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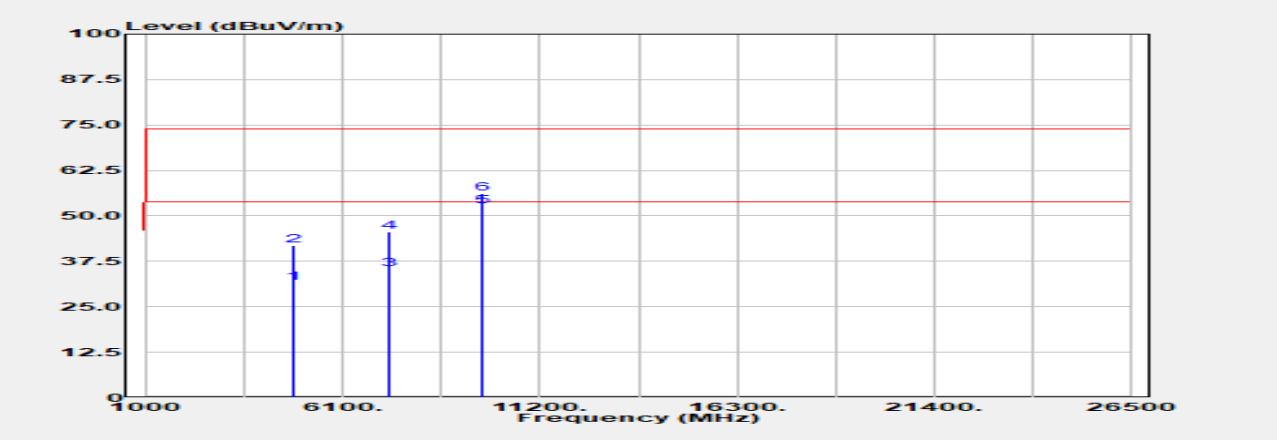
Report Number	:TERF2212002688E2	Test Site	:SAC G Chamber
Operation Mode	:802.11n40	Test Date	:2022-12-22
Test Frequency	:2427 MHz	Temp./Humi.	:19.6/49
Test Mode	:Tx	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4854.000	Average	28.43	3.22	31.65	54.00	-22.35
4854.000	Peak	38.65	3.22	41.87	74.00	-32.13
7281.000	Average	27.33	8.00	35.33	54.00	-18.67
7281.000	Peak	37.66	8.00	45.66	74.00	-28.34
9708.000	Average	44.00	8.54	52.54	54.00	-1.46
9708.000	Peak	47.53	8.54	56.07	74.00	-17.93

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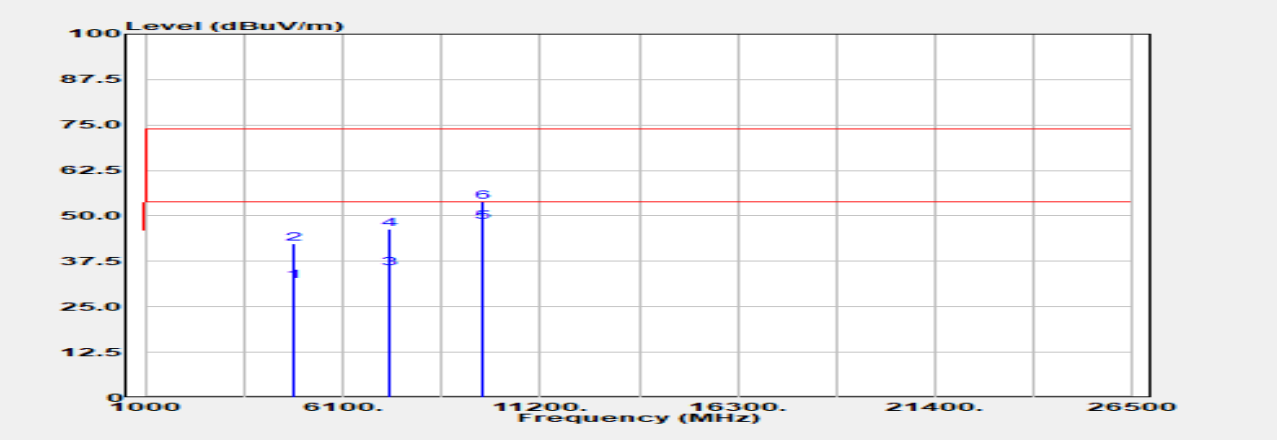
Report Number	:TERF2212002688E2	Test Site	:SAC G Chamber
Operation Mode	:802.11n40	Test Date	:2022-12-22
Test Frequency	:2427 MHz	Temp./Humi.	:19.6/49
Test Mode	:Tx	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4854.000	Average	28.79	3.22	32.01	54.00	-21.99
4854.000	Peak	39.08	3.22	42.29	74.00	-31.71
7281.000	Average	27.54	8.00	35.54	54.00	-18.46
7281.000	Peak	38.26	8.00	46.26	74.00	-27.74
9708.000	Average	39.74	8.54	48.28	54.00	-5.72
9708.000	Peak	45.26	8.54	53.79	74.00	-20.21

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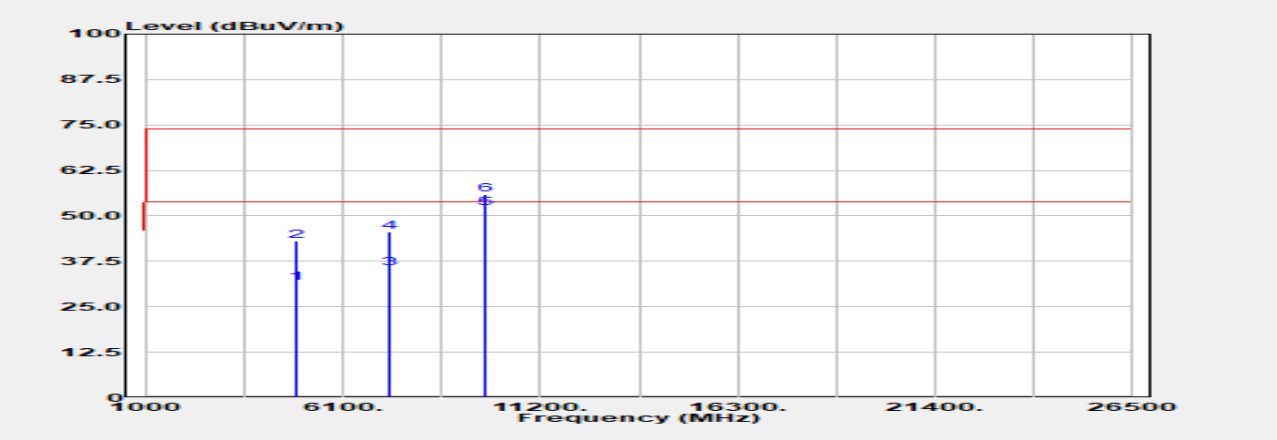
Report Number	:TERF2212002688E2	Test Site	:SAC G Chamber
Operation Mode	:802.11n40	Test Date	:2022-12-20
Test Frequency	:2437 MHz	Temp./Humi.	:22.8/51
Test Mode	:Tx	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.000	Average	28.05	3.48	31.53	54.00	-22.47
4874.000	Peak	39.53	3.48	43.01	74.00	-30.99
7311.000	Average	28.01	7.62	35.64	54.00	-18.36
7311.000	Peak	38.07	7.62	45.69	74.00	-28.31
9748.000	Average	43.21	8.92	52.13	54.00	-1.87
9748.000	Peak	47.05	8.92	55.97	74.00	-18.03

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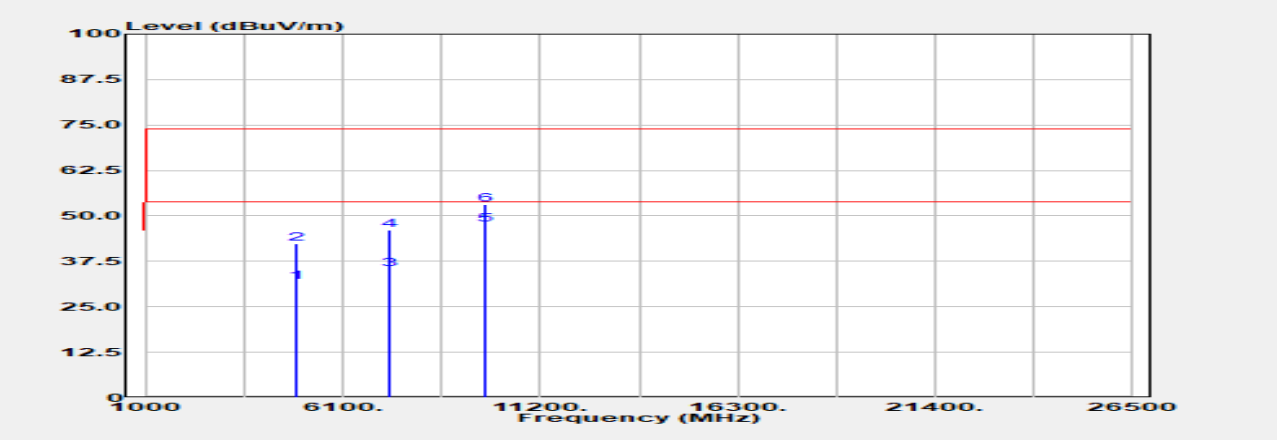
Report Number	:TERF2212002688E2	Test Site	:SAC G Chamber
Operation Mode	:802.11n40	Test Date	:2022-12-20
Test Frequency	:2437 MHz	Temp./Humi.	:22.8/51
Test Mode	:Tx	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.000	Average	28.38	3.48	31.86	54.00	-22.14
4874.000	Peak	38.91	3.48	42.39	74.00	-31.61
7311.000	Average	27.77	7.62	35.40	54.00	-18.60
7311.000	Peak	38.50	7.62	46.12	74.00	-27.88
9748.000	Average	38.70	8.92	47.62	54.00	-6.38
9748.000	Peak	44.24	8.92	53.16	74.00	-20.84

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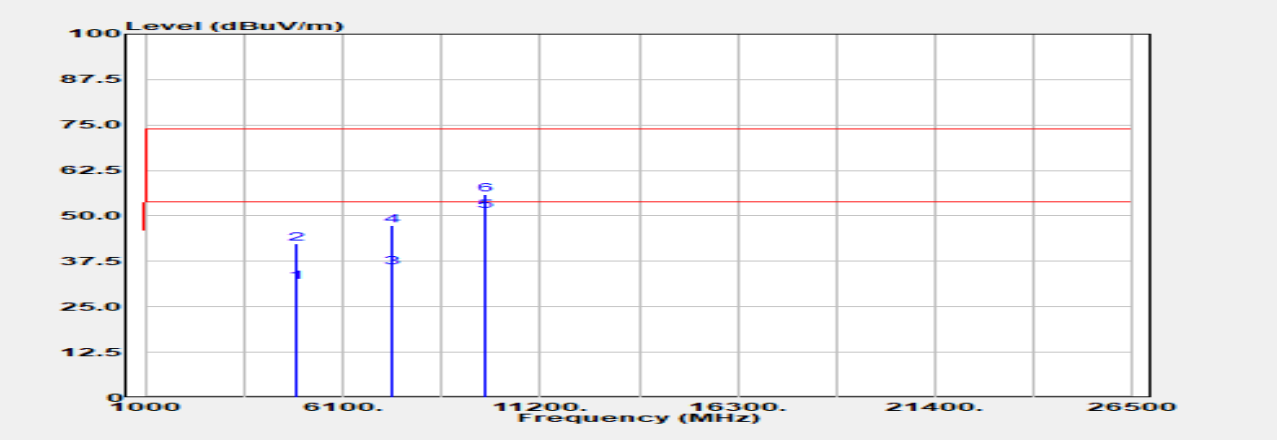
Report Number	:TERF2212002688E2	Test Site	:SAC G Chamber
Operation Mode	:802.11n40	Test Date	:2022-12-20
Test Frequency	:2452 MHz	Temp./Humi.	:22.8/51
Test Mode	:Tx	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4904.000	Average	28.47	3.29	31.76	54.00	-22.24
4904.000	Peak	39.00	3.29	42.30	74.00	-31.70
7356.000	Average	27.82	7.97	35.79	54.00	-18.21
7356.000	Peak	39.37	7.97	47.34	74.00	-26.66
9808.000	Average	42.48	8.86	51.34	54.00	-2.66
9808.000	Peak	46.94	8.86	55.80	74.00	-18.20

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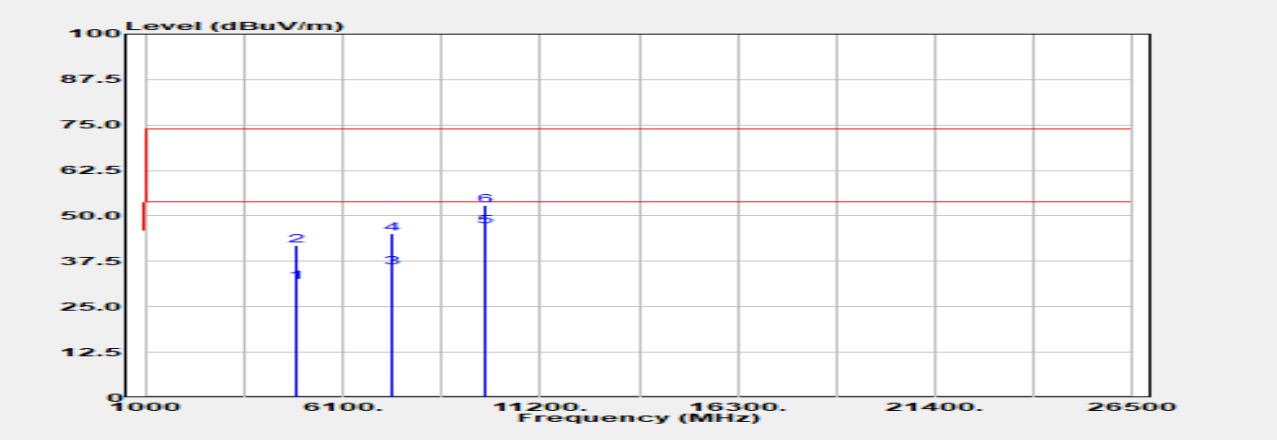
Report Number	:TERF2212002688E2	Test Site	:SAC G Chamber
Operation Mode	:802.11n40	Test Date	:2022-12-20
Test Frequency	:2452 MHz	Temp./Humi.	:22.8/51
Test Mode	:Tx	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4904.000	Average	28.54	3.29	31.84	54.00	-22.16
4904.000	Peak	38.51	3.29	41.80	74.00	-32.20
7356.000	Average	27.84	7.97	35.80	54.00	-18.20
7356.000	Peak	37.25	7.97	45.21	74.00	-28.79
9808.000	Average	38.37	8.86	47.22	54.00	-6.78
9808.000	Peak	43.98	8.86	52.84	74.00	-21.16

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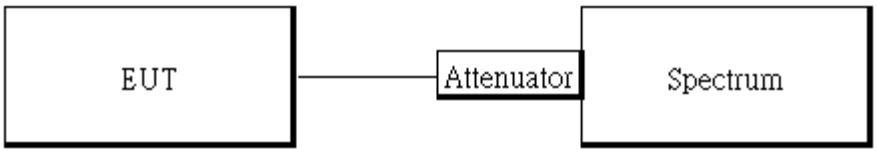
12 POWER SPECTRAL DENSITY

12.1 Standard Applicable

Per Part 15.247 (e)

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. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

12.2 Test Setup



12.3 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. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.

Note:

For the test of MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported on this report after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome.

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12.4 As per FCC KDB 662911 D01

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

- $$DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k}$ = / 20 10Gk if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

The antenna gain is not grater than 6 dBi. Therefore, reduction of power is not required.

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12.5 Power spectral density

POWER DENSITY 802.11b					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-9.96	-9.55	-6.74	8.00	PASS
2437	-8.13	-7.35	-4.71	8.00	PASS
2462	-5.81	-5.37	-2.57	8.00	PASS

POWER DENSITY 802.11g					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-14.80	-15.30	-12.03	8.00	PASS
2437	-9.24	-8.45	-5.82	8.00	PASS
2462	-11.47	-11.21	-8.33	8.00	PASS

POWER DENSITY 802.11n HT20					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-14.88	-13.37	-11.05	8.00	PASS
2437	-10.37	-10.83	-7.58	8.00	PASS
2462	-11.15	-10.66	-7.89	8.00	PASS

POWER DENSITY 802.11n HT40					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	-15.41	-13.74	-11.48	8.00	PASS
2437	-13.13	-13.40	-10.25	8.00	PASS
2452	-13.51	-13.42	-10.45	8.00	PASS

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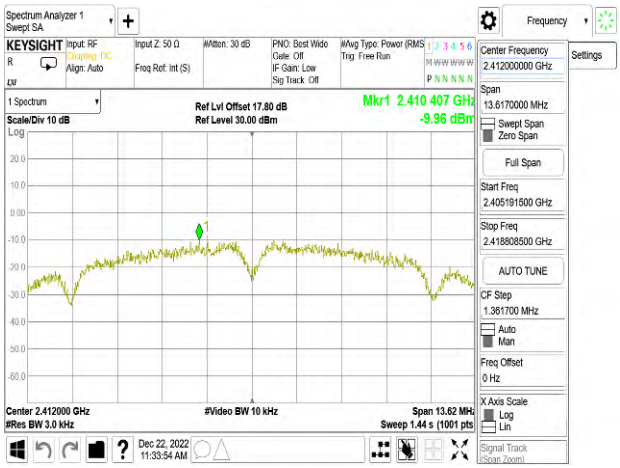
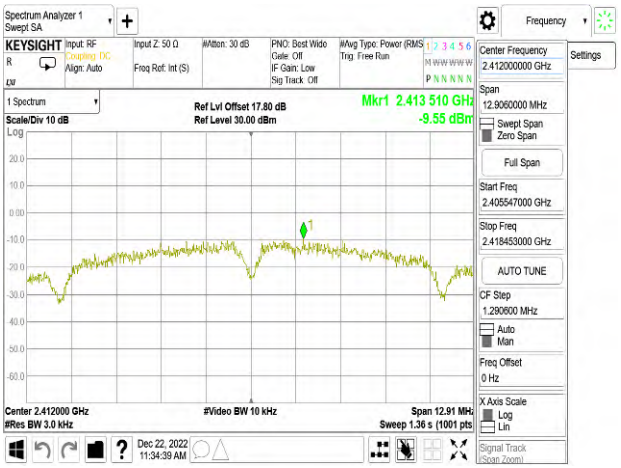
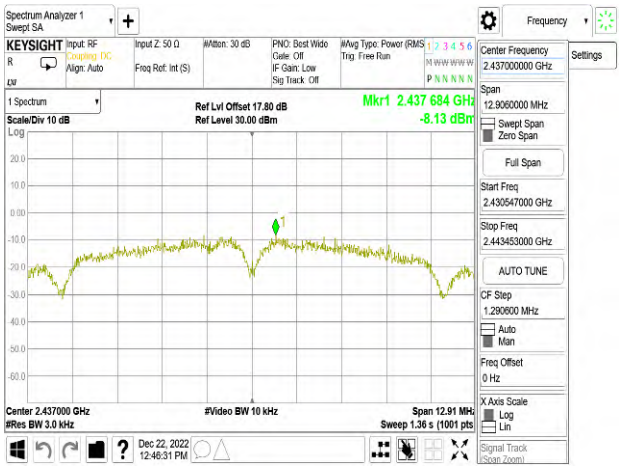
802.11b_20MHz_Chain0_2412MHz



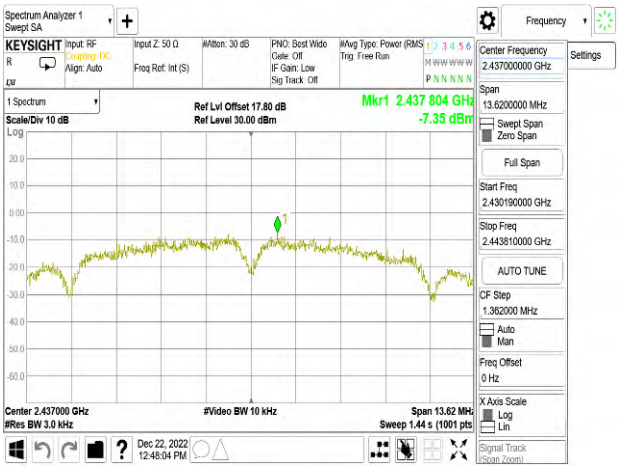
802.11b_20MHz_Chain1_2412MHz



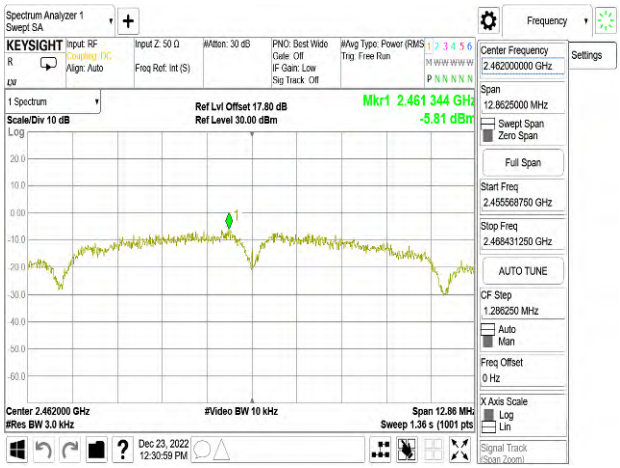
802.11b_20MHz_Chain0_2437MHz



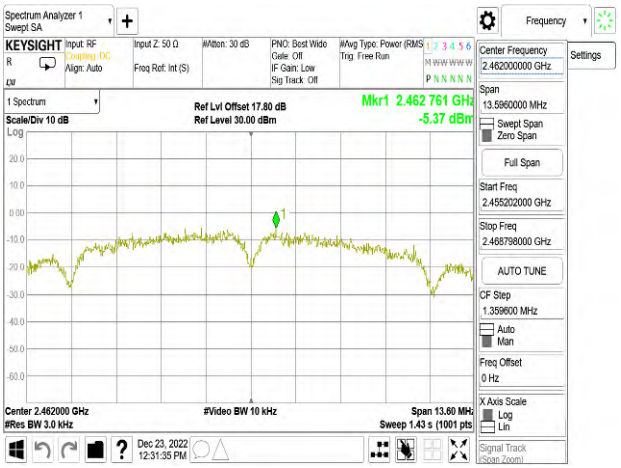
802.11b_20MHz_Chain1_2437MHz



802.11b_20MHz_Chain0_2462MHz



802.11b_20MHz_Chain1_2462MHz



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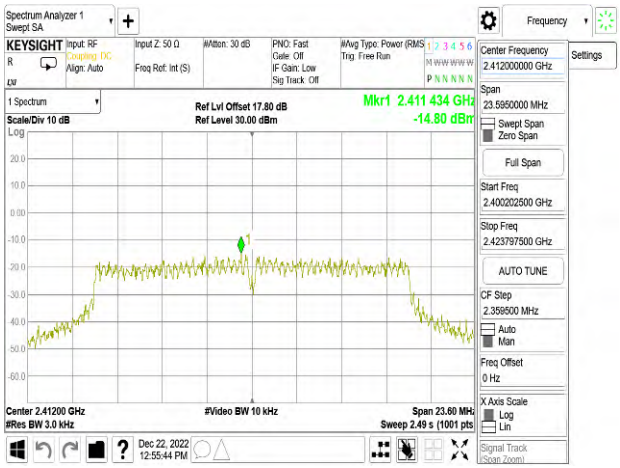
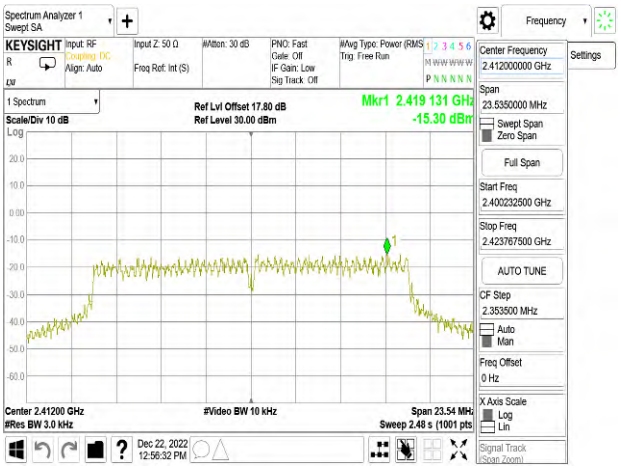
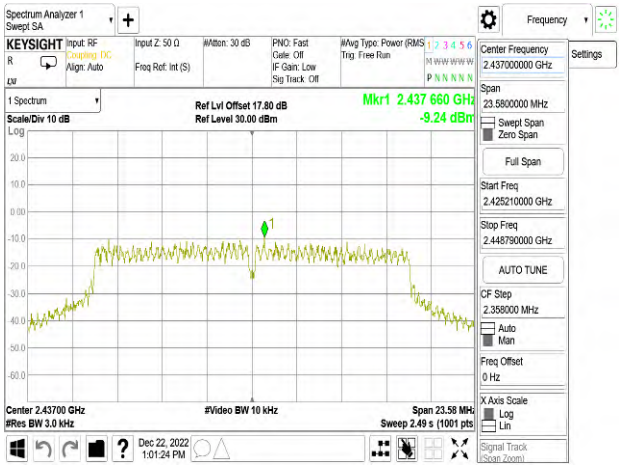
802.11g_20MHz_Chain0_2412MHz



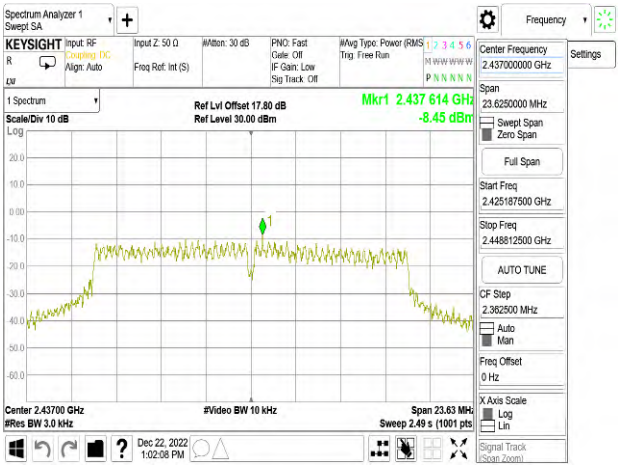
802.11g_20MHz_Chain1_2412MHz



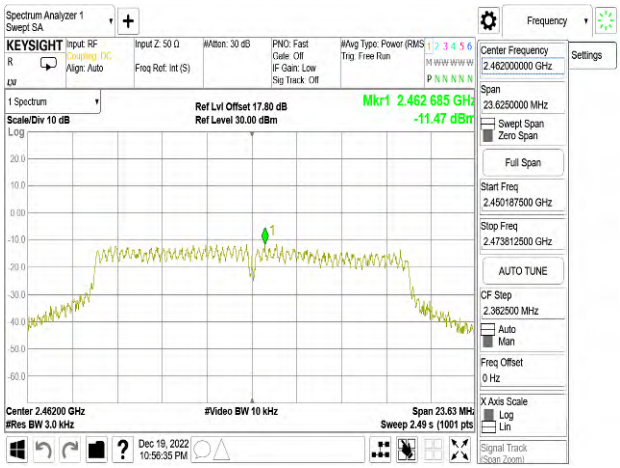
802.11g_20MHz_Chain0_2437MHz



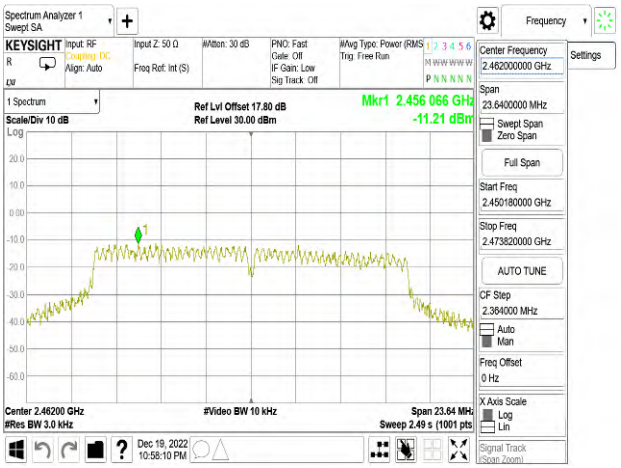
802.11g_20MHz_Chain1_2437MHz



802.11g_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain1_2462MHz



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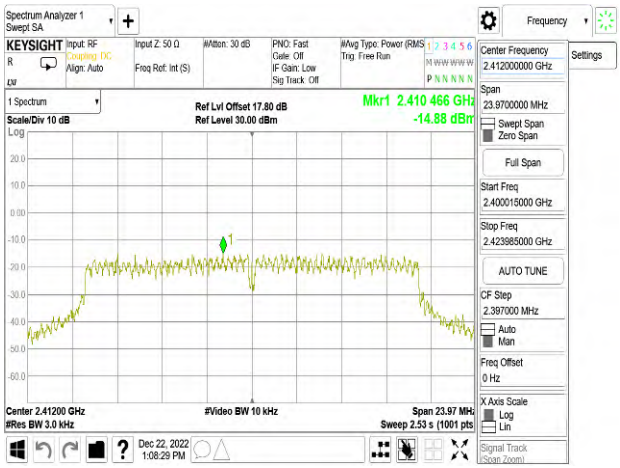
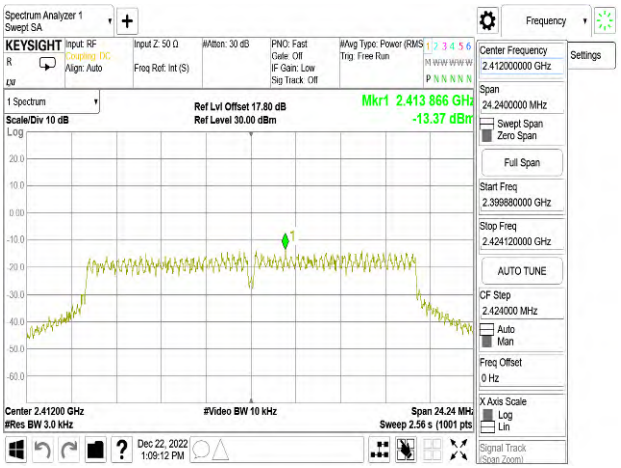
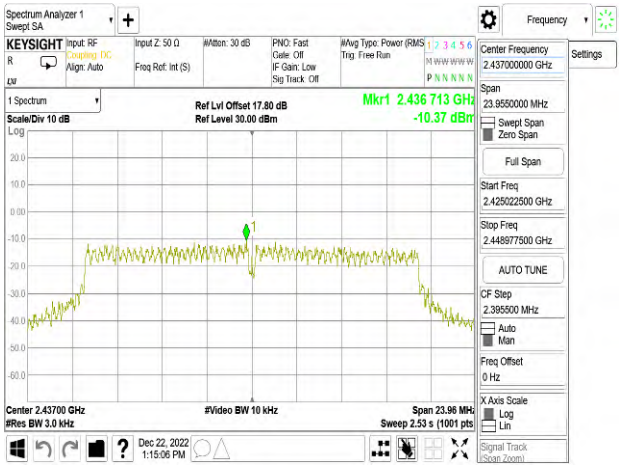
802.11n_20MHz_Chain0_2412MHz



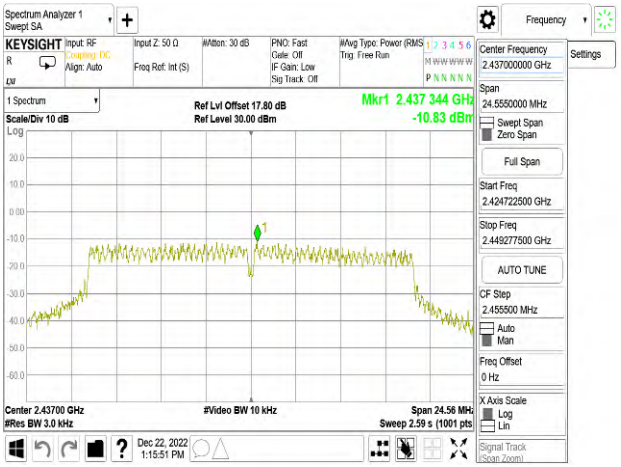
802.11n_20MHz_Chain1_2412MHz



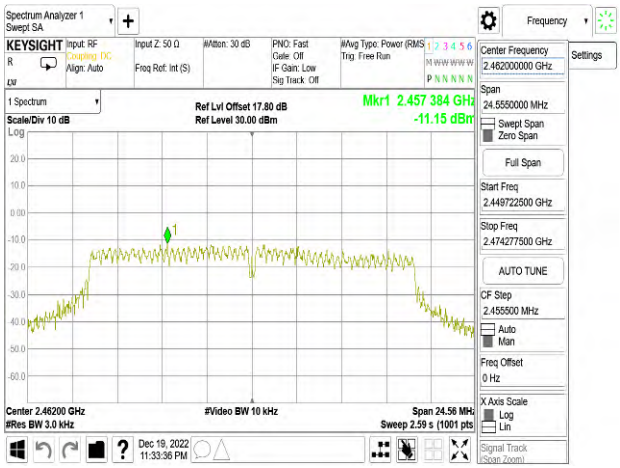
802.11n_20MHz_Chain0_2437MHz



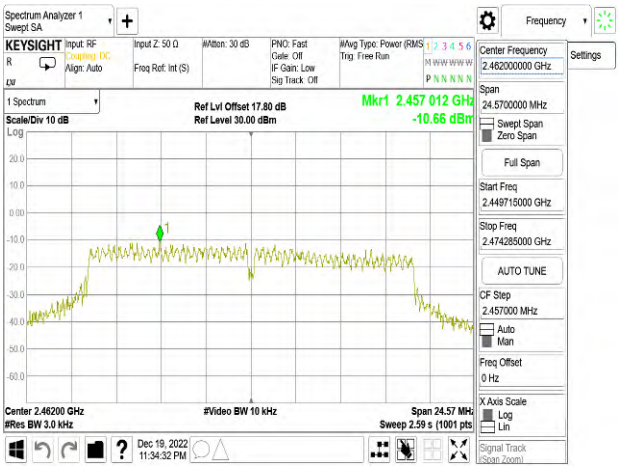
802.11n_20MHz_Chain1_2437MHz



802.11n_20MHz_Chain0_2462MHz



802.11n_20MHz_Chain1_2462MHz



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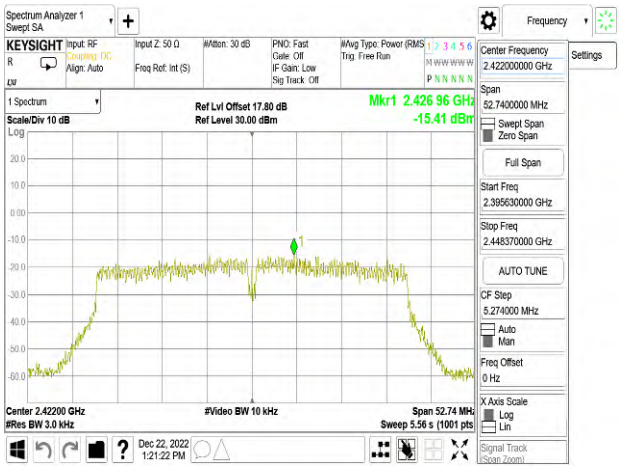
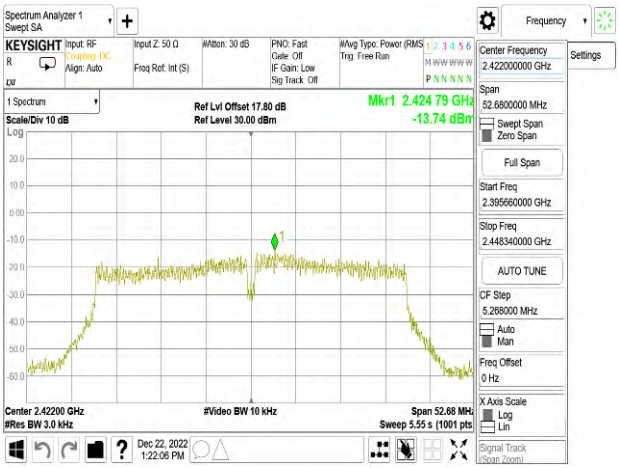
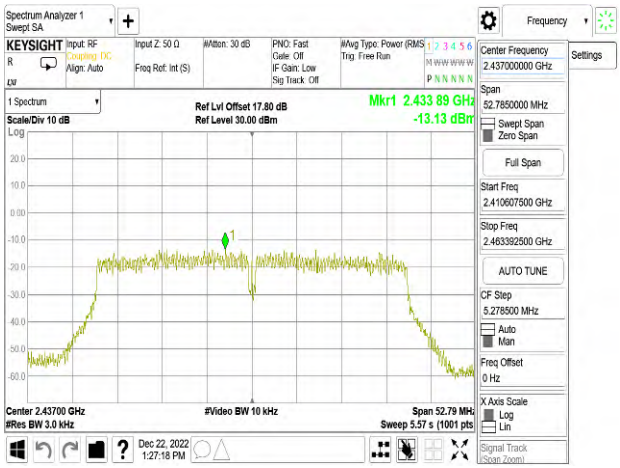
802.11n_40MHz_Chain0_2422MHz



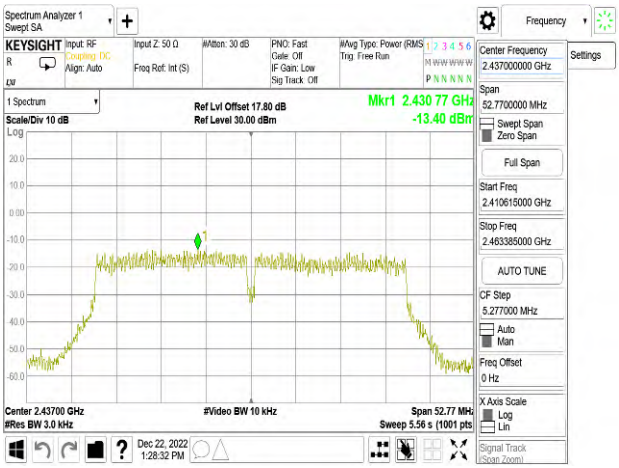
802.11n_40MHz_Chain1_2422MHz



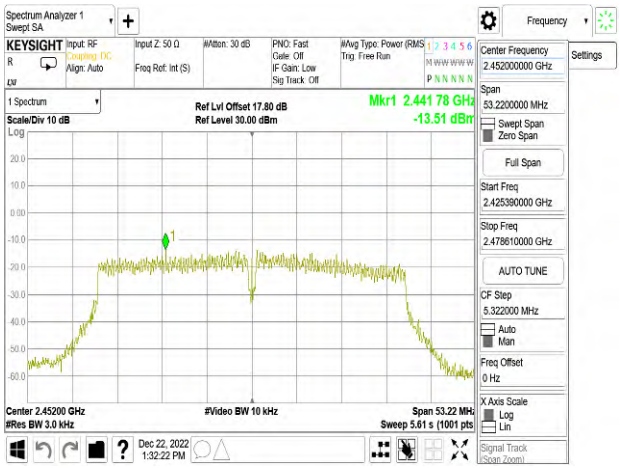
802.11n_40MHz_Chain0_2437MHz



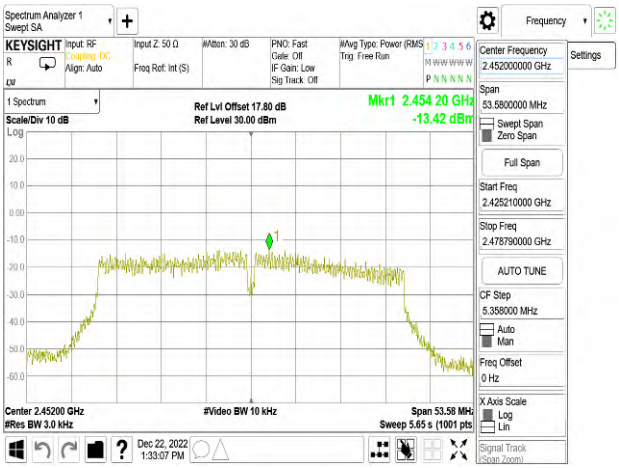
802.11n_40MHz_Chain1_2437MHz



802.11n_40MHz_Chain0_2452MHz



802.11n_40MHz_Chain1_2452MHz



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13 ANTENNA REQUIREMENT

13.1 Standard Applicable

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

13.2 Antenna Connected Construction

The antenna complies with this requirement and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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