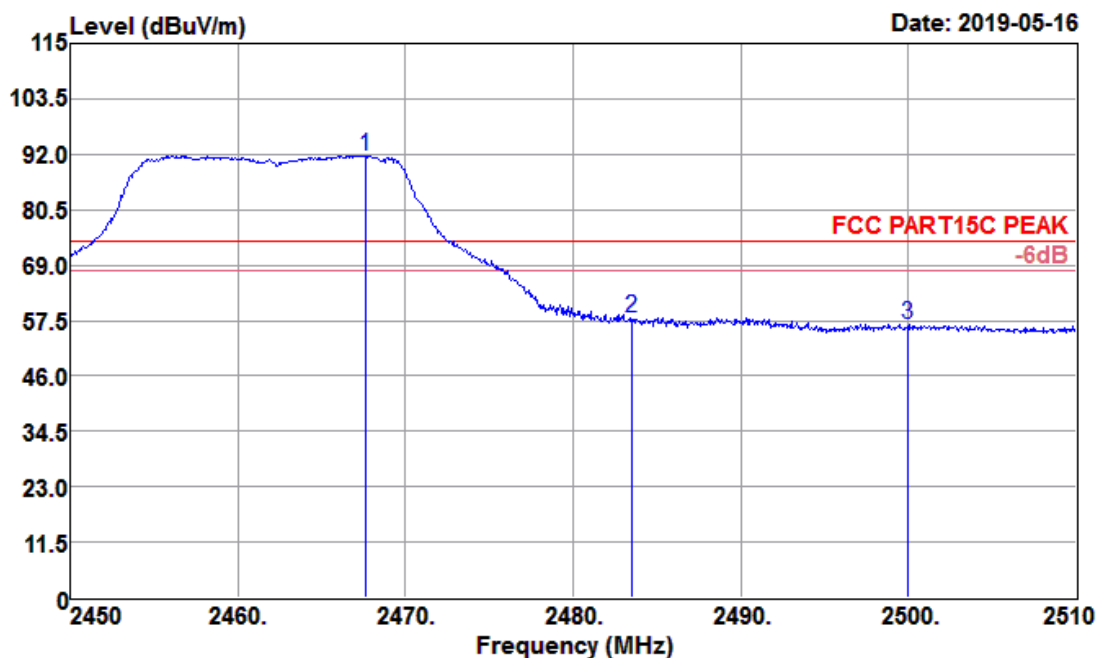


Test Mode :	802.11g CH11(2462MHz)	Temperature :	21°C
Test Engineer :	Julie Deng	Relative Humidity :	63%
Test Distance :	3m	Polarization :	Horizontal

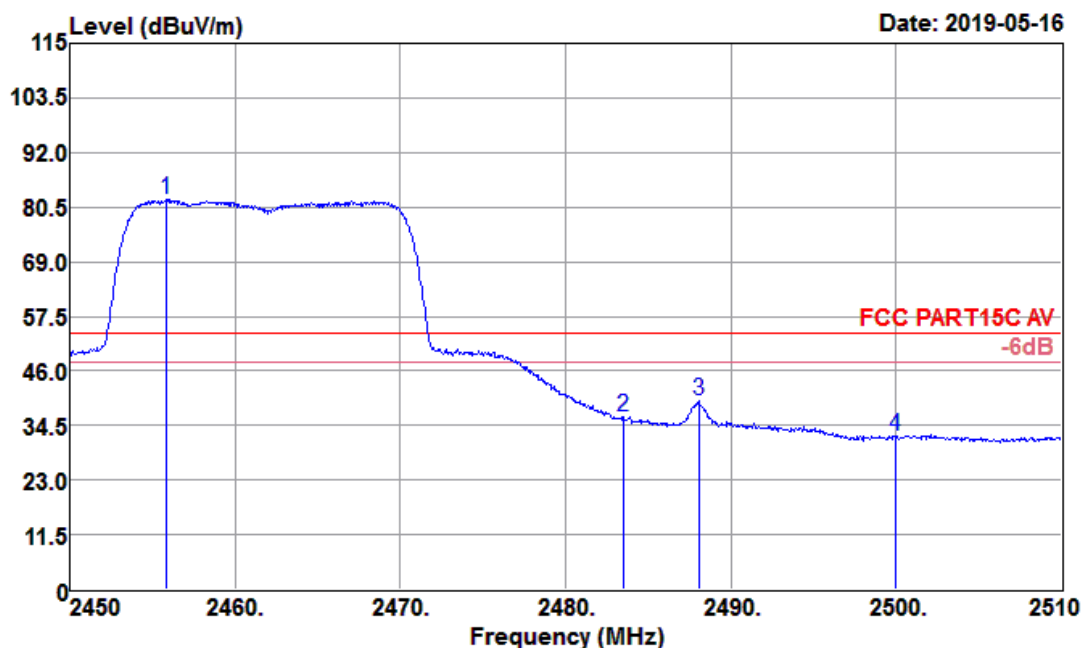
Data: 64



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2467.640	96.97	27.32	3.67	36.28	91.68	74.00	17.68	Peak
2483.500	63.15	27.36	3.68	36.33	57.86	74.00	-16.14	Peak
2500.000	61.89	27.40	3.68	36.37	56.60	74.00	-17.40	Peak

Data: 65

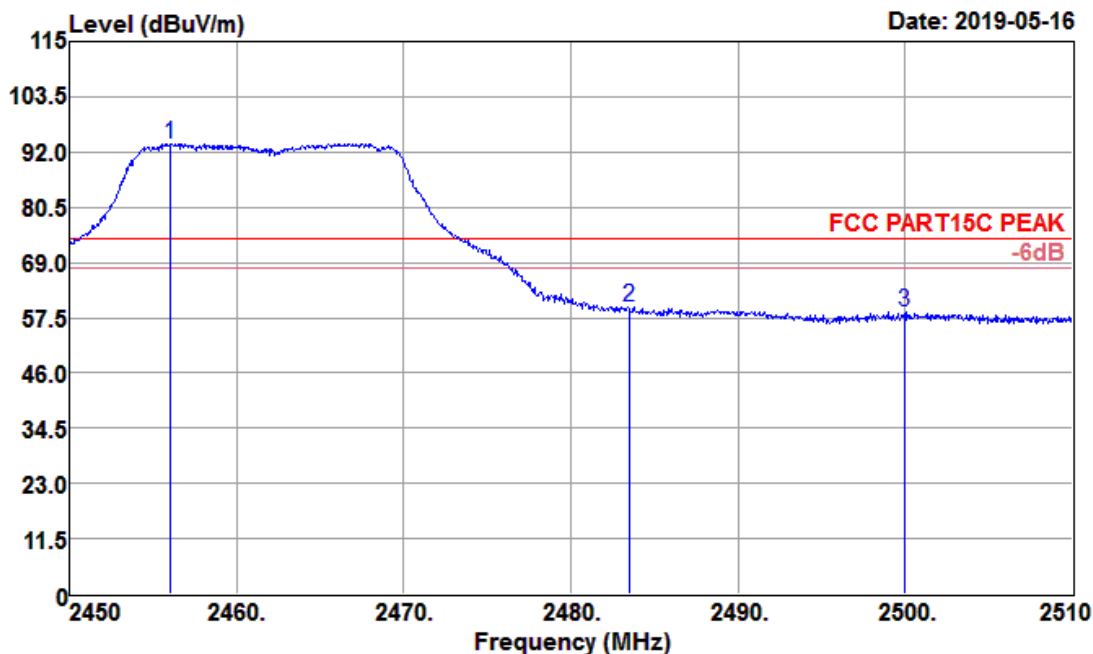
Date: 2019-05-16



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamplifier factor dB	Level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2455.880	87.47	27.29	3.67	36.25	82.18	54.00	28.18	Average
2483.500	41.53	27.36	3.68	36.33	36.24	54.00	-17.76	Average
2488.040	44.88	27.37	3.68	36.34	39.59	54.00	-14.41	Average
2500.000	37.62	27.40	3.68	36.37	32.33	54.00	-21.67	Average

Test Mode :	802.11g CH11(2462MHz)	Temperature :	21°C
Test Engineer :	Julie Deng	Relative Humidity :	63%
Test Distance :	3m	Polarization :	Vertical

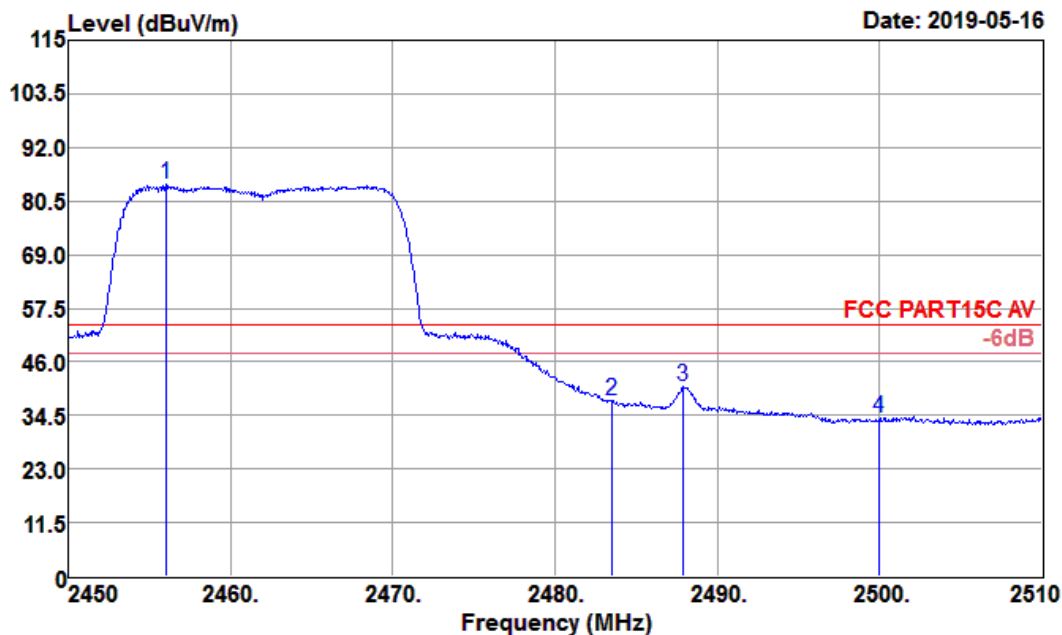
Data: 62



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamplifier factor dB	Level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2456.000	99.00	27.29	3.67	36.25	93.71	74.00	19.71	Peak
2483.500	64.97	27.36	3.68	36.33	59.68	74.00	-14.32	Peak
2500.000	63.94	27.40	3.68	36.37	58.65	74.00	-15.35	Peak

Data: 63

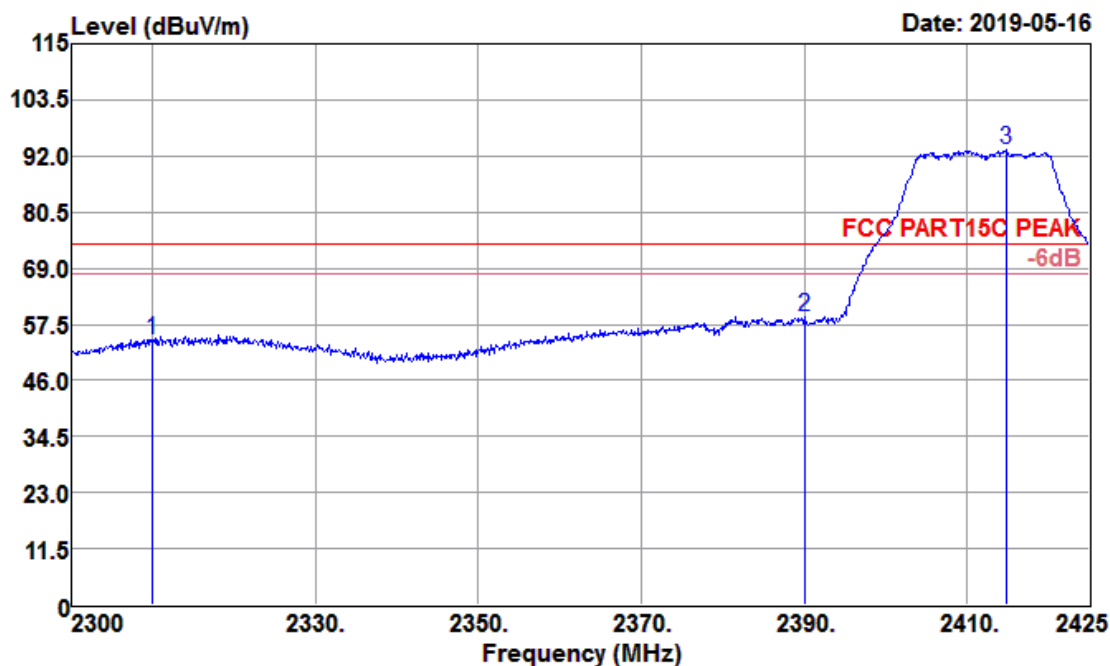
Date: 2019-05-16



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2456.000	89.27	27.29	3.67	36.25	83.98	54.00	29.98	Average
2483.500	43.11	27.36	3.68	36.33	37.82	54.00	-16.18	Average
2487.920	45.85	27.37	3.68	36.34	40.56	54.00	-13.44	Average
2500.000	39.13	27.40	3.68	36.37	33.84	54.00	-20.16	Average

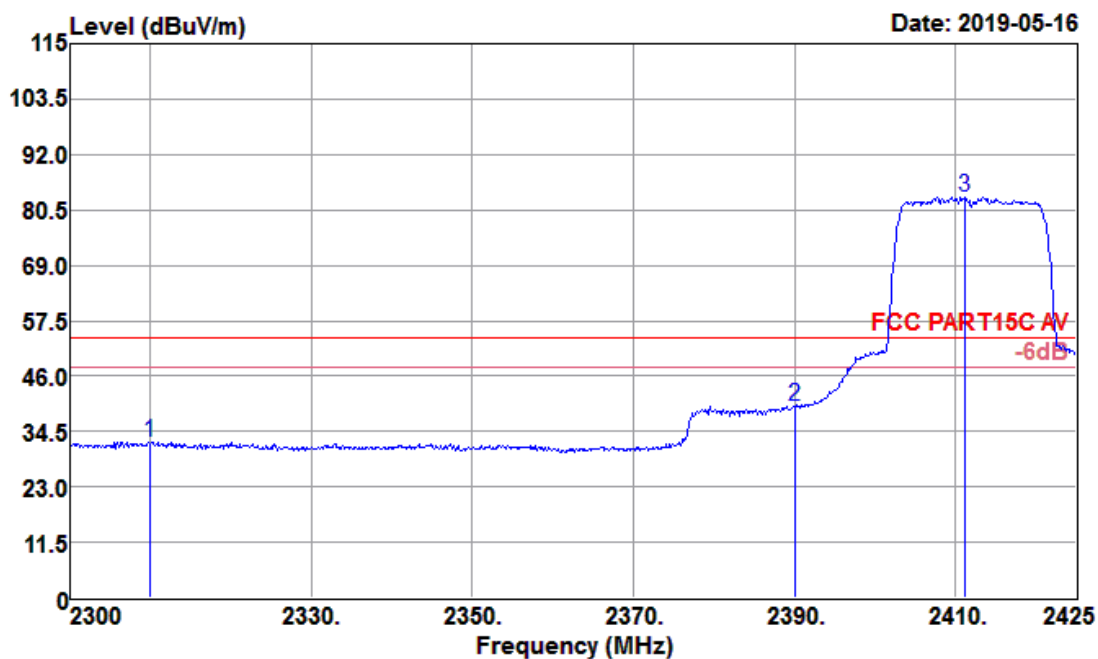
Test Mode :	802.11n20 CH01(2412MHz)	Temperature :	21°C
Test Engineer :	Julie Deng	Relative Humidity :	63%
Test Distance :	3m	Polarization :	Horizontal

Data: 70



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	59.77	26.91	3.56	35.87	54.37	74.00	-19.63	Peak
2390.000	64.25	27.11	3.64	36.08	58.92	74.00	-15.08	Peak
2414.750	98.53	27.18	3.66	36.14	93.23	74.00	19.23	Peak

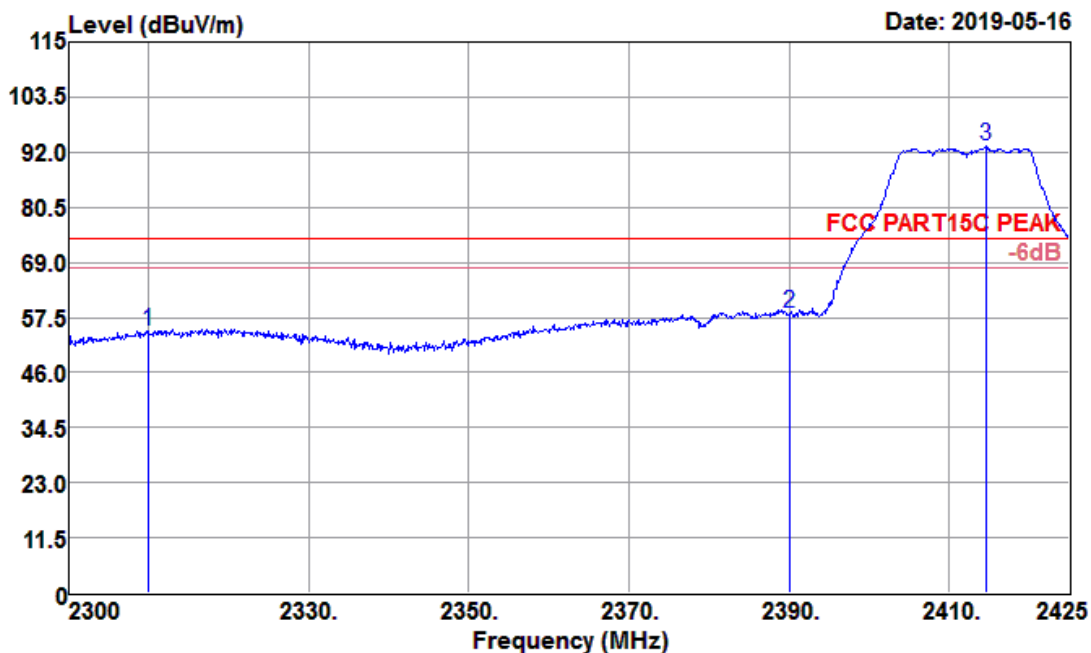
Data: 71



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	37.80	26.91	3.56	35.87	32.40	54.00	-21.60	Average
2390.000	45.11	27.11	3.64	36.08	39.78	54.00	-14.22	Average
2411.250	88.54	27.17	3.65	36.14	83.22	54.00	29.22	Average

Test Mode :	802.11n20 CH01(2412MHz)	Temperature :	21°C
Test Engineer :	Julie Deng	Relative Humidity :	63%
Test Distance :	3m	Polarization :	Vertical

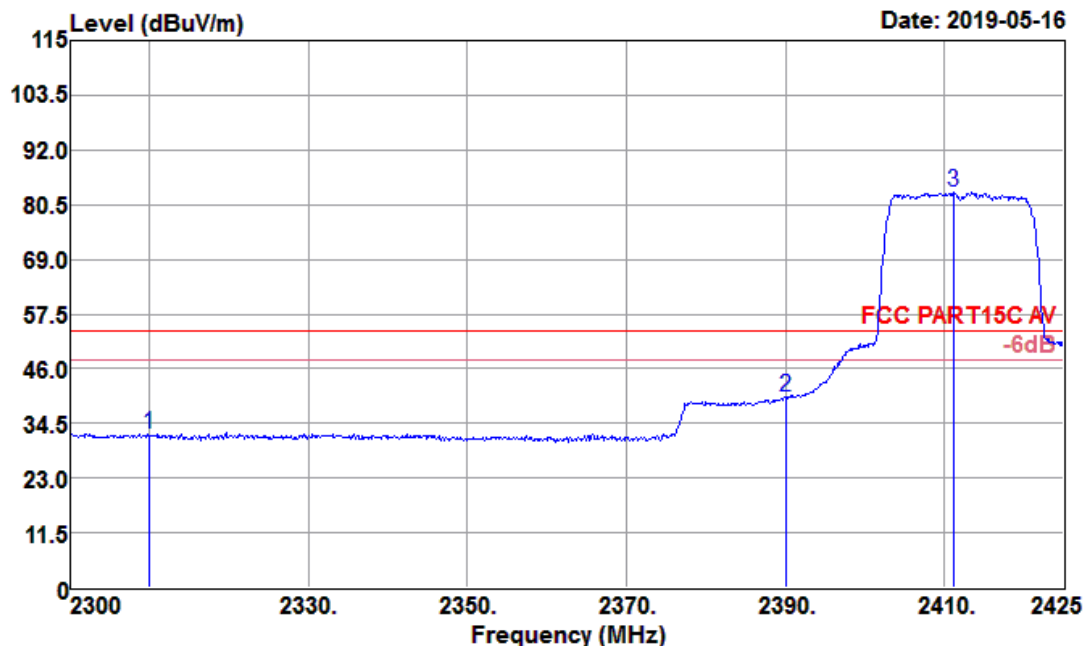
Data: 72



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	60.07	26.91	3.56	35.87	54.67	74.00	-19.33	Peak
2390.000	63.75	27.11	3.64	36.08	58.42	74.00	-15.58	Peak
2414.625	98.52	27.18	3.66	36.14	93.22	74.00	19.22	Peak

Data: 73

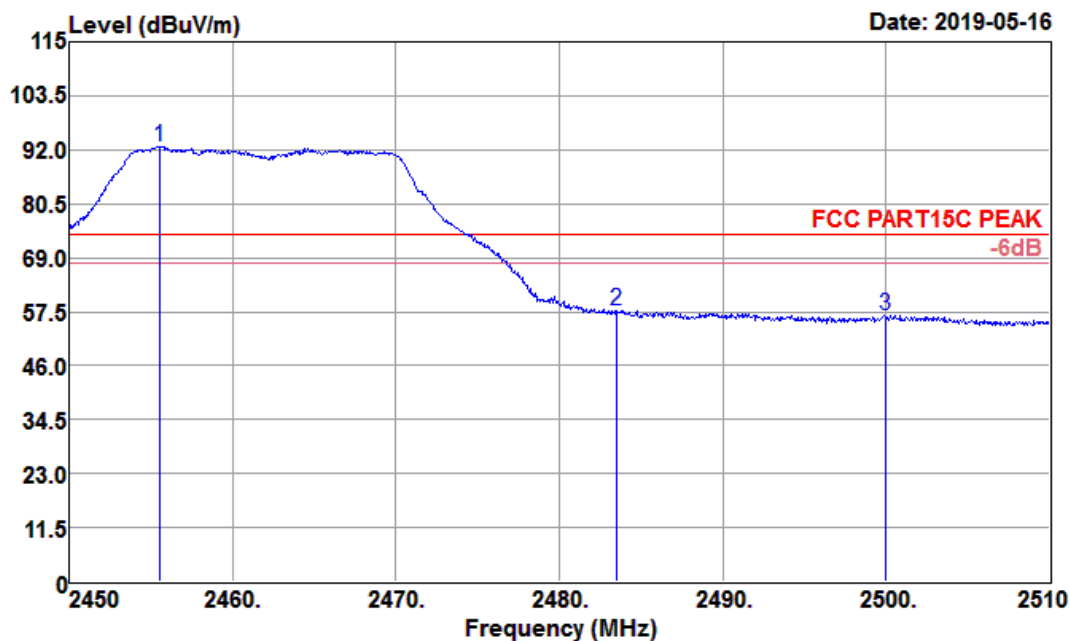
Date: 2019-05-16



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	37.51	26.91	3.56	35.87	32.11	54.00	-21.89	Average
2390.000	45.38	27.11	3.64	36.08	40.05	54.00	-13.95	Average
2411.250	88.42	27.17	3.65	36.14	83.10	54.00	29.10	Average

Test Mode :	802.11n20 CH11(2462MHz)	Temperature :	21°C
Test Engineer :	Julie Deng	Relative Humidity :	63%
Test Distance :	3m	Polarization :	Horizontal

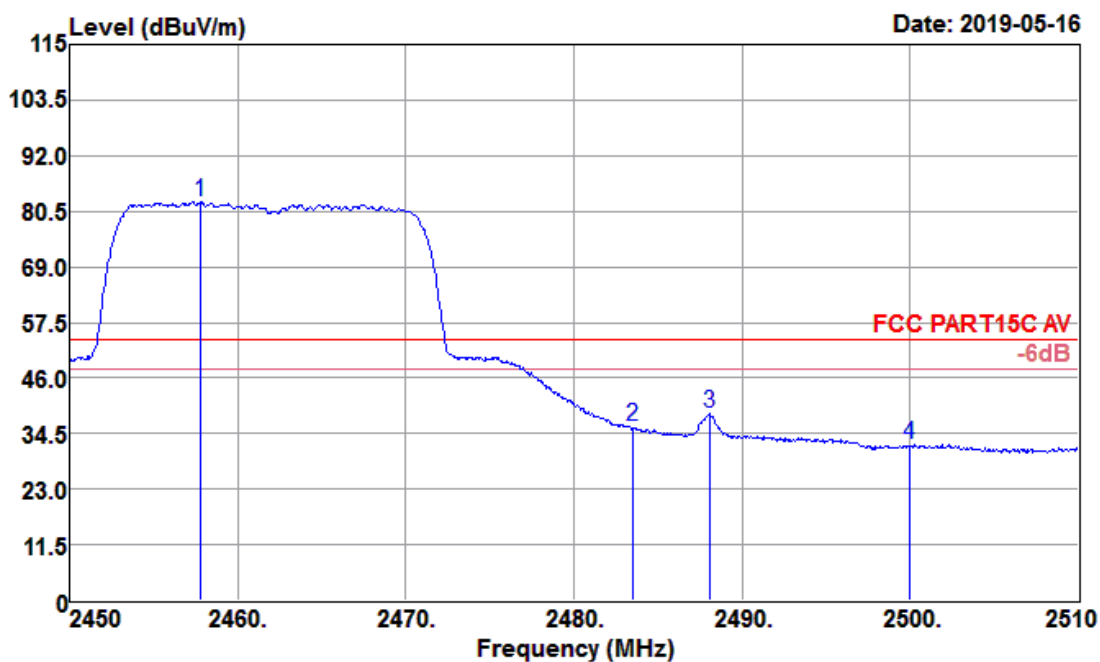
Data: 82



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2455.580	97.90	27.28	3.67	36.25	92.60	74.00	18.60	Peak
2483.500	63.04	27.36	3.68	36.33	57.75	74.00	-16.25	Peak
2500.000	61.98	27.40	3.68	36.37	56.69	74.00	-17.31	Peak

Data: 83

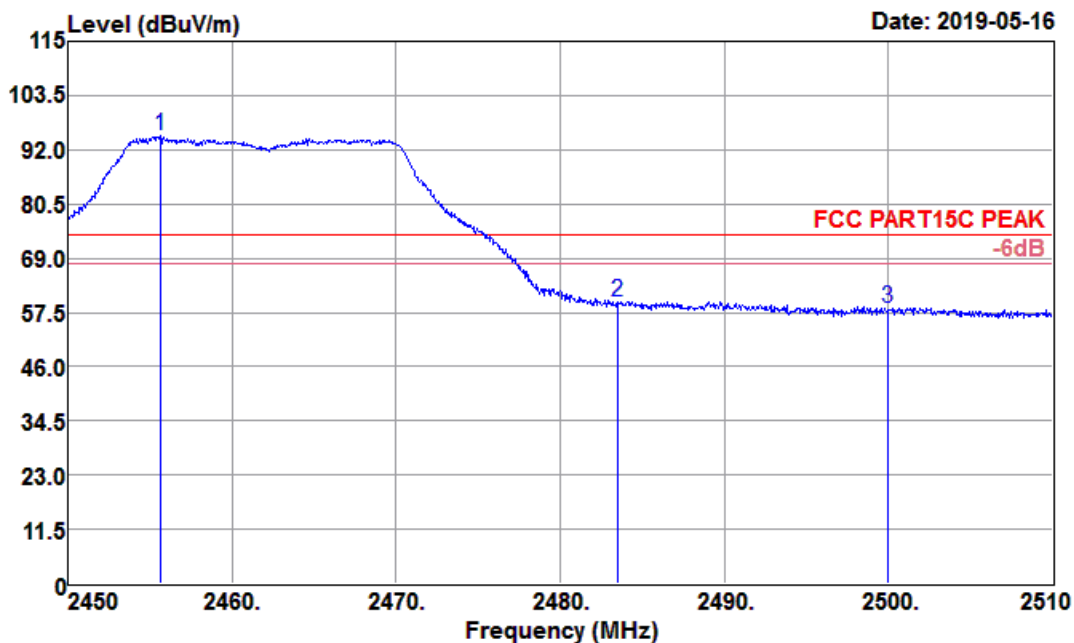
Date: 2019-05-16



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamplifier factor dB	Level dBUV/m	Limit level dBUV/m	Over limit dB	Remark
2457.800	87.79	27.29	3.67	36.26	82.49	54.00	28.49	Average
2483.500	41.34	27.36	3.68	36.33	36.05	54.00	-17.95	Average
2488.040	43.96	27.37	3.68	36.34	38.67	54.00	-15.33	Average
2500.000	37.42	27.40	3.68	36.37	32.13	54.00	-21.87	Average

Test Mode :	802.11n20 CH11(2462MHz)	Temperature :	21°C
Test Engineer :	Julie Deng	Relative Humidity :	63%
Test Distance :	3m	Polarization :	Vertical

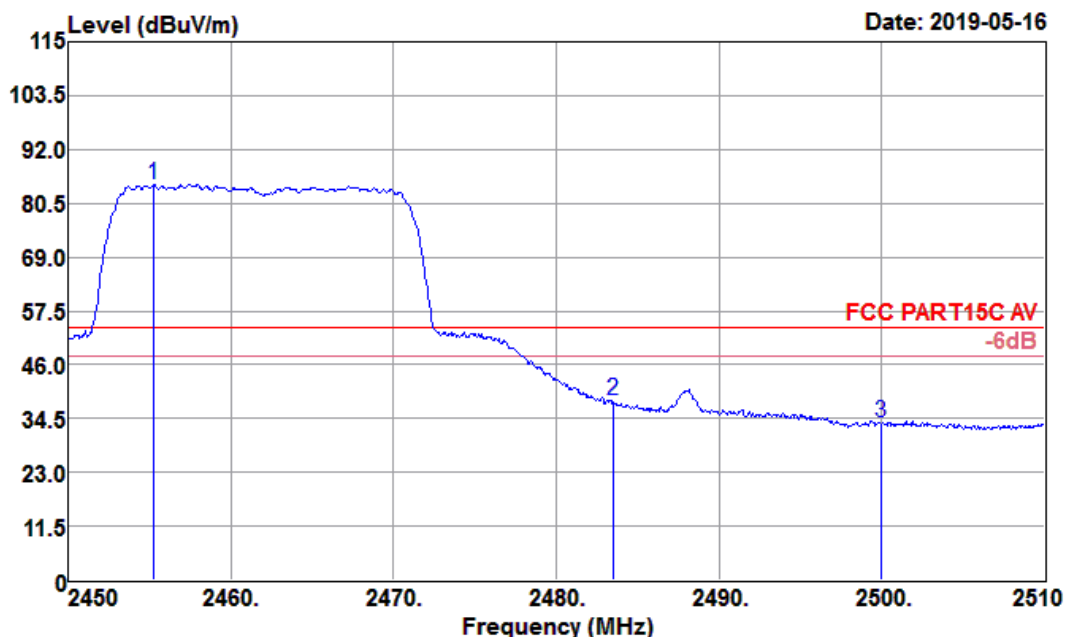
Data: 84



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2455.640	100.15	27.28	3.67	36.25	94.85	74.00	20.85	Peak
2483.500	64.95	27.36	3.68	36.33	59.66	74.00	-14.34	Peak
2500.000	63.62	27.40	3.68	36.37	58.33	74.00	-15.67	Peak

Data: 85

Date: 2019-05-16

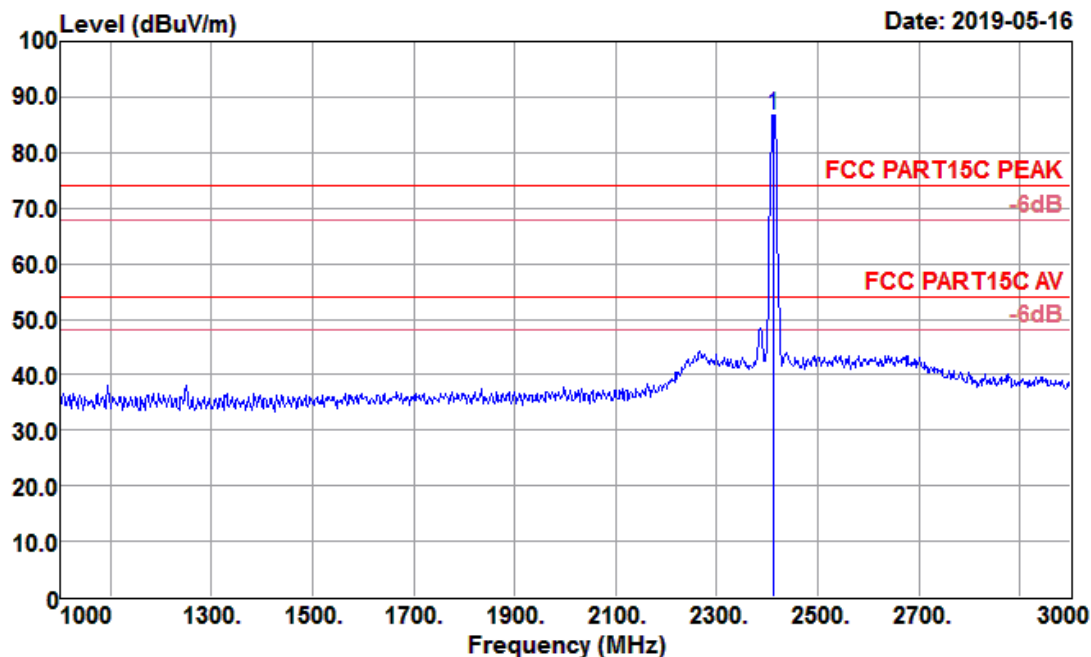


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2455.280	89.87	27.28	3.67	36.25	84.57	54.00	30.57	Average
2483.500	43.75	27.36	3.68	36.33	38.46	54.00	-15.54	Average
2500.000	39.03	27.40	3.68	36.37	33.74	54.00	-20.26	Average

4.5.5 Test Result of Radiated Spurious Emission (1GHz ~ 10th Harmonic)

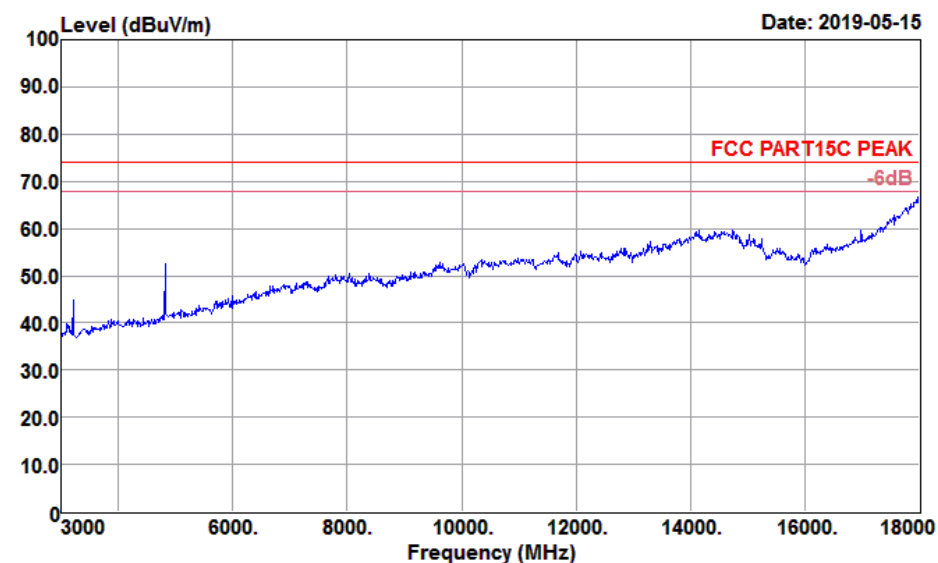
Test Mode :	802.11b CH01(2412MHz)	Temperature :	21°C
Test Engineer :	Julie Deng	Relative Humidity :	63%
Test Distance :	3m	Polarization :	Horizontal

Data: 86

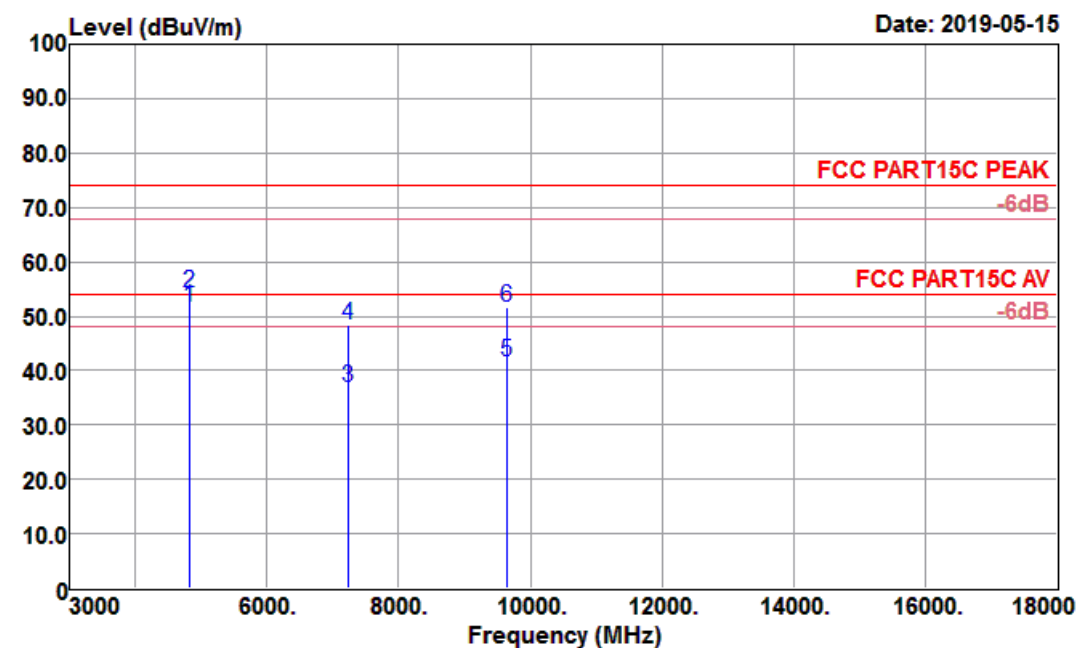


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2412.000	92.18	27.17	3.65	36.14	86.86	74.00	12.86	Peak

Data: 26



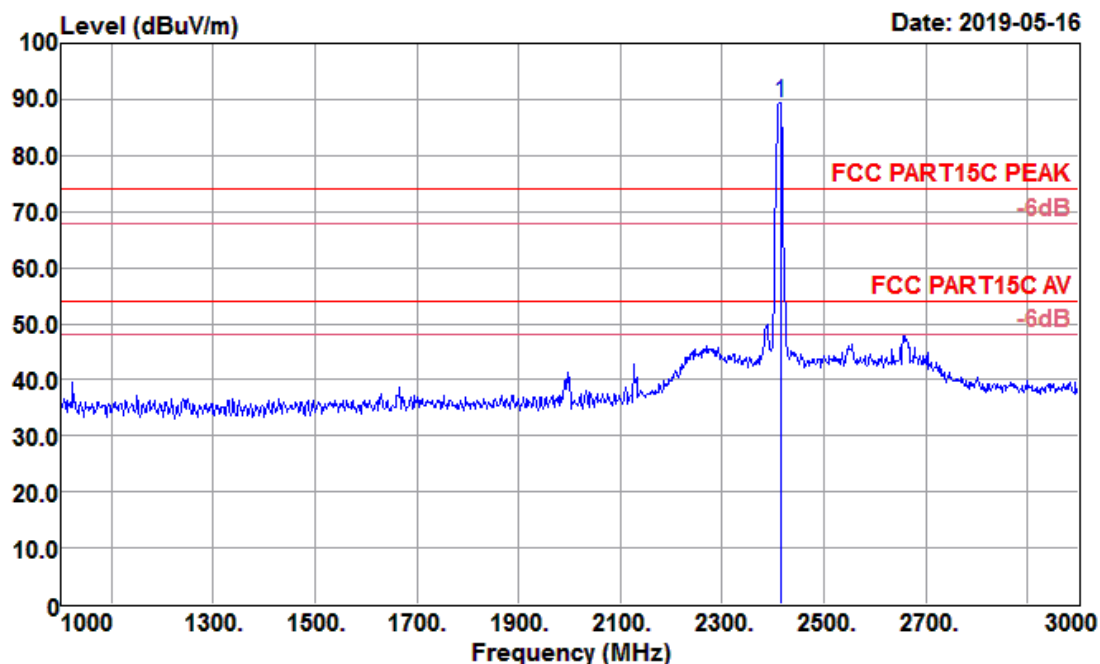
Data: 27



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4824.000	51.24	31.28	5.44	36.26	51.70	54.00	-2.30	Average
4824.000	53.78	31.28	5.44	36.26	54.24	74.00	-19.76	Peak
7236.000	28.06	35.94	7.02	34.27	36.75	54.00	-17.25	Average
7236.000	39.62	35.94	7.02	34.27	48.31	74.00	-25.69	Peak
9648.000	30.13	37.87	7.82	34.15	41.67	54.00	-12.33	Average
9648.000	40.11	37.87	7.82	34.15	51.65	74.00	-22.35	Peak

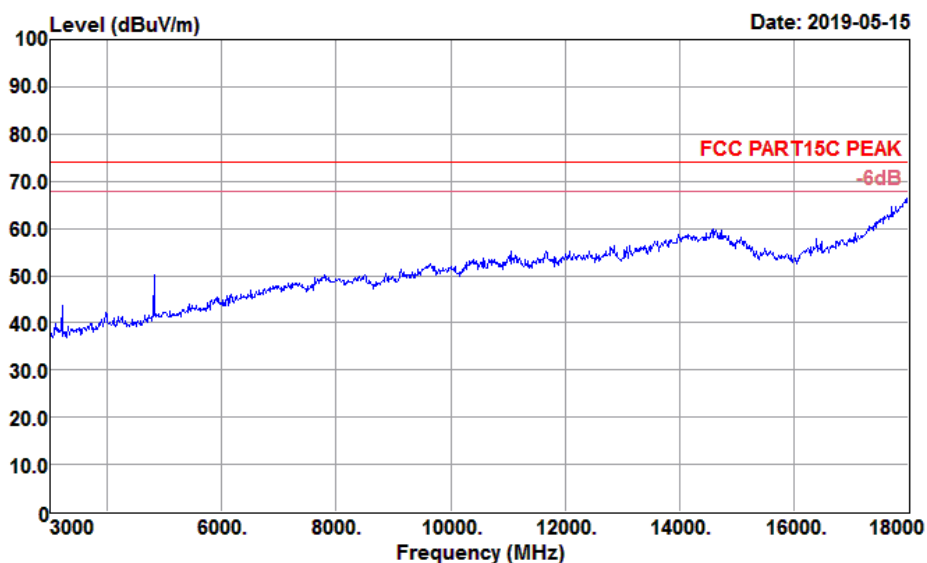
Test Mode :	802.11b CH01(2412MHz)	Temperature :	21°C
Test Engineer :	Julie Deng	Relative Humidity :	63%
Test Distance :	3m	Polarization :	Vertical

Data: 87

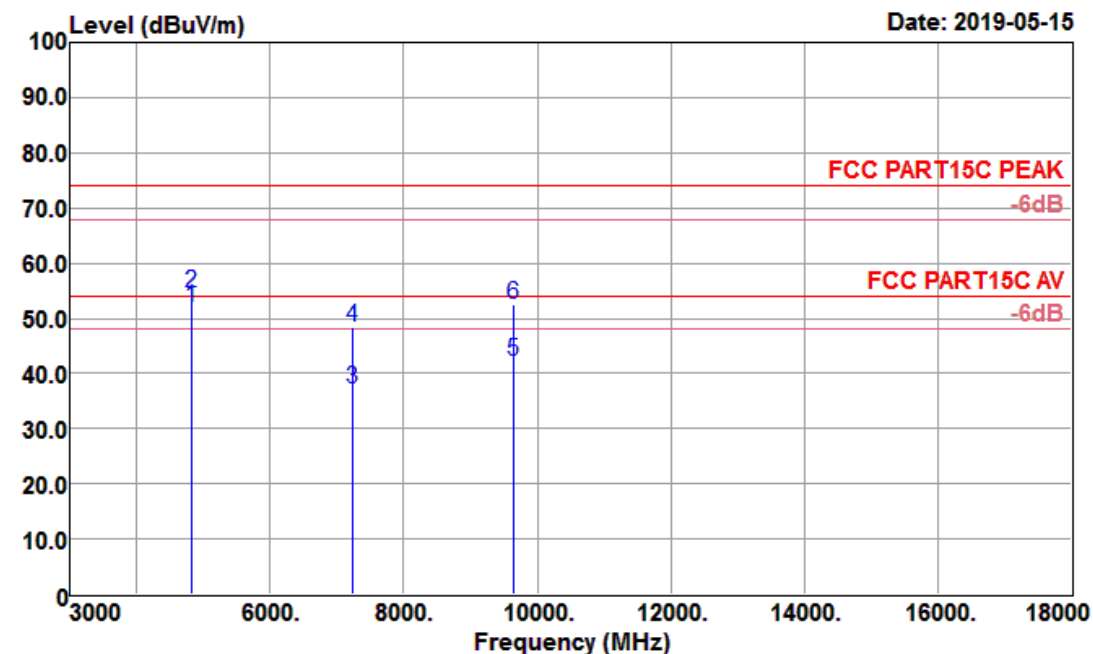


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2414.000	94.66	27.18	3.65	36.14	89.35	74.00	15.35	Peak

Data: 28



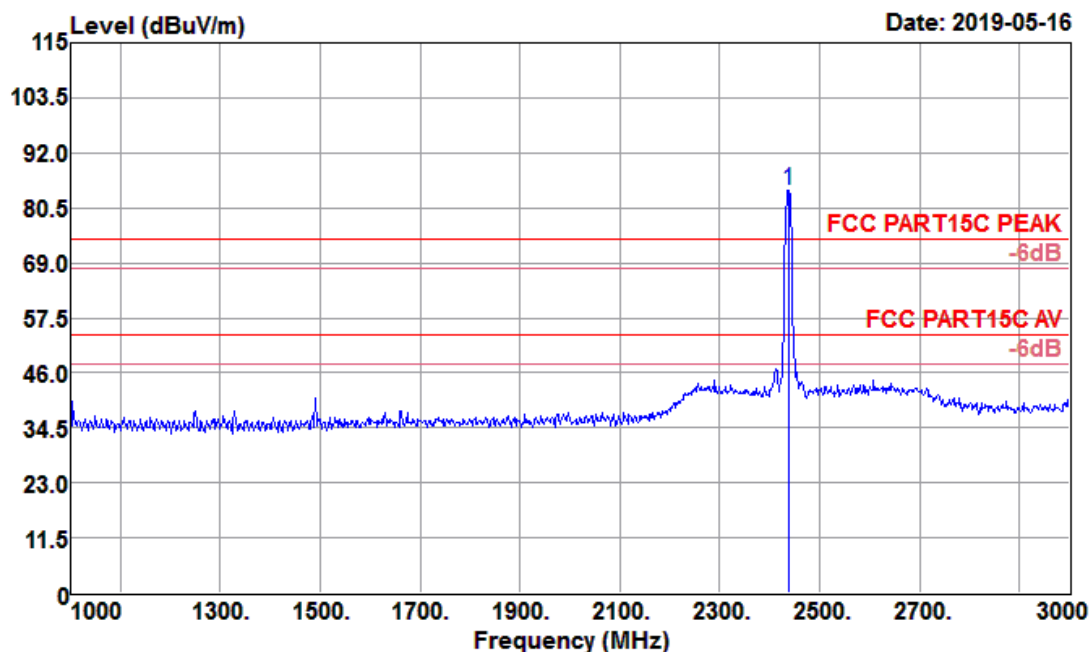
Data: 29



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamplifier factor dB	Level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4824.000	51.57	31.28	5.44	36.26	52.03	54.00	-1.97	Average
4824.000	54.21	31.28	5.44	36.26	54.67	74.00	-19.33	Peak
7236.000	28.46	35.94	7.02	34.27	37.15	54.00	-16.85	Average
7236.000	39.56	35.94	7.02	34.27	48.25	74.00	-25.75	Peak
9648.000	30.53	37.87	7.82	34.15	42.07	54.00	-11.93	Average
9648.000	40.88	37.87	7.82	34.15	52.42	74.00	-21.58	Peak

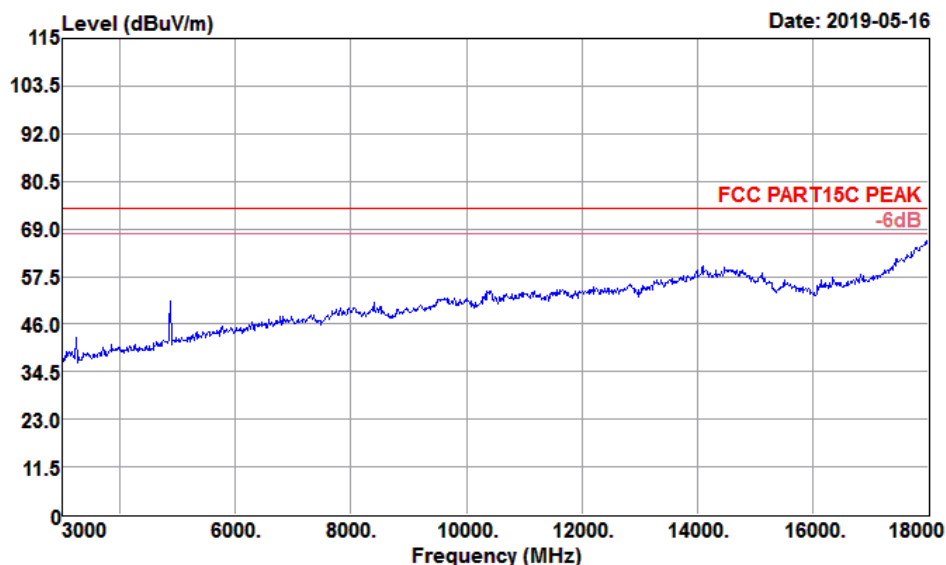
Test Mode :	802.11b CH06 (2437MHz)	Temperature :	21°C
Test Engineer :	Julie Deng	Relative Humidity :	63%
Test Distance :	3m	Polarization :	Horizontal

Data: 88



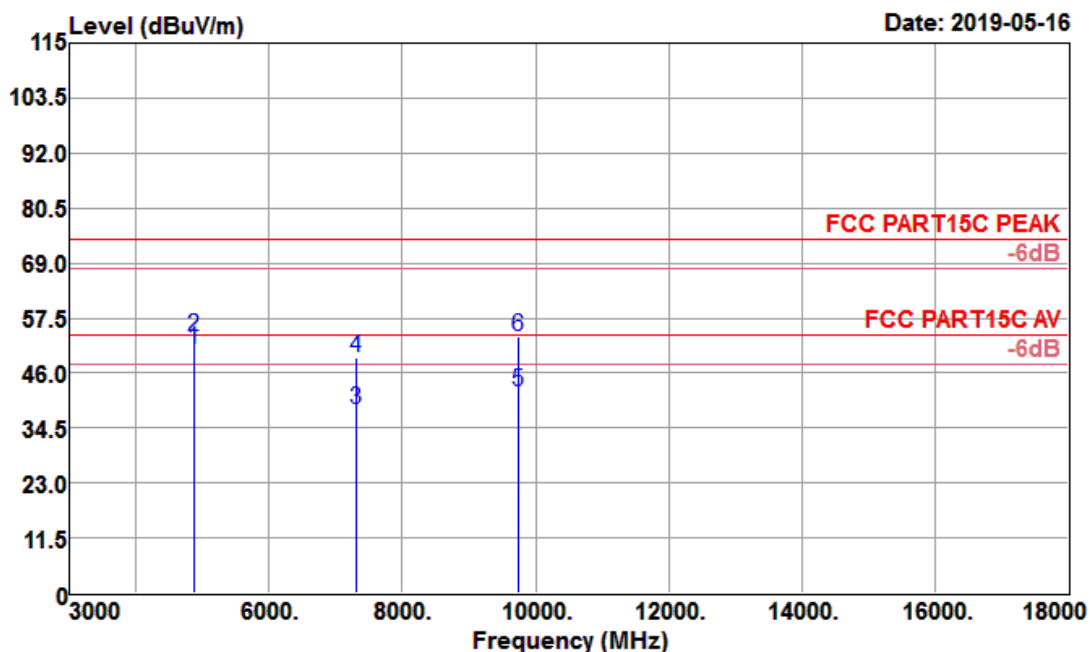
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2438.000	89.50	27.24	3.66	36.21	84.19	74.00	10.19	Peak

Data: 36



Data: 37

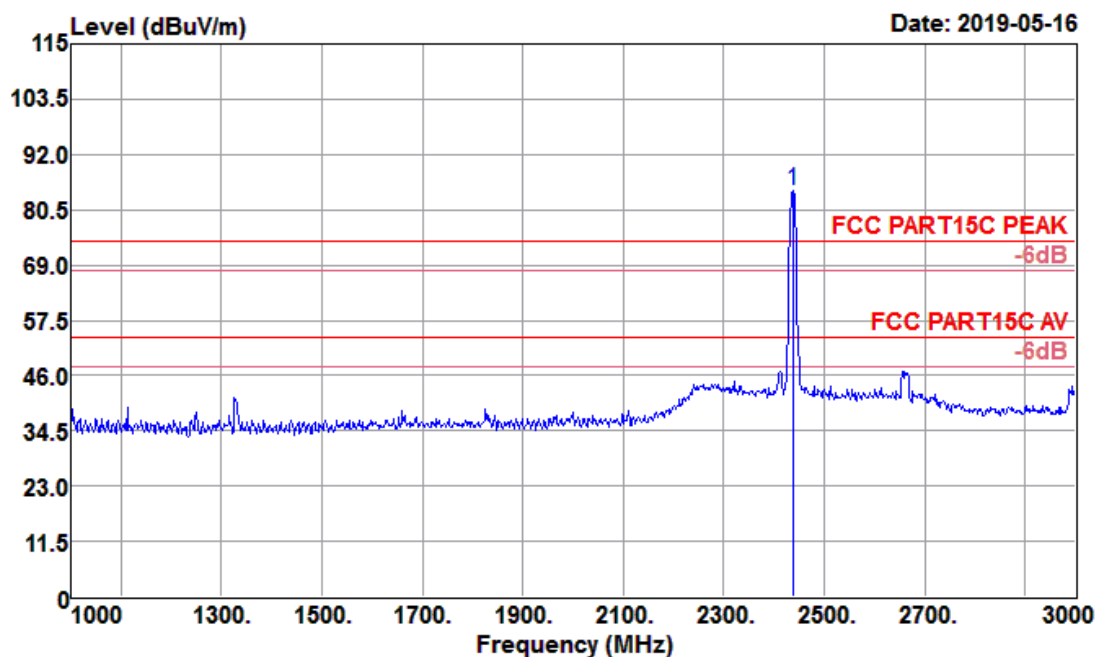
Date: 2019-05-16



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4874.000	50.29	31.40	5.41	36.24	50.86	54.00	-3.14	Average
4874.000	53.13	31.40	5.41	36.24	53.70	74.00	-20.30	Peak
7311.000	29.22	36.12	7.24	34.35	38.23	54.00	-15.77	Average
7311.000	40.10	36.12	7.24	34.35	49.11	74.00	-24.89	Peak
9748.000	30.41	38.05	7.96	34.19	42.23	54.00	-11.77	Average
9748.000	41.77	38.05	7.96	34.19	53.59	74.00	-20.41	Peak

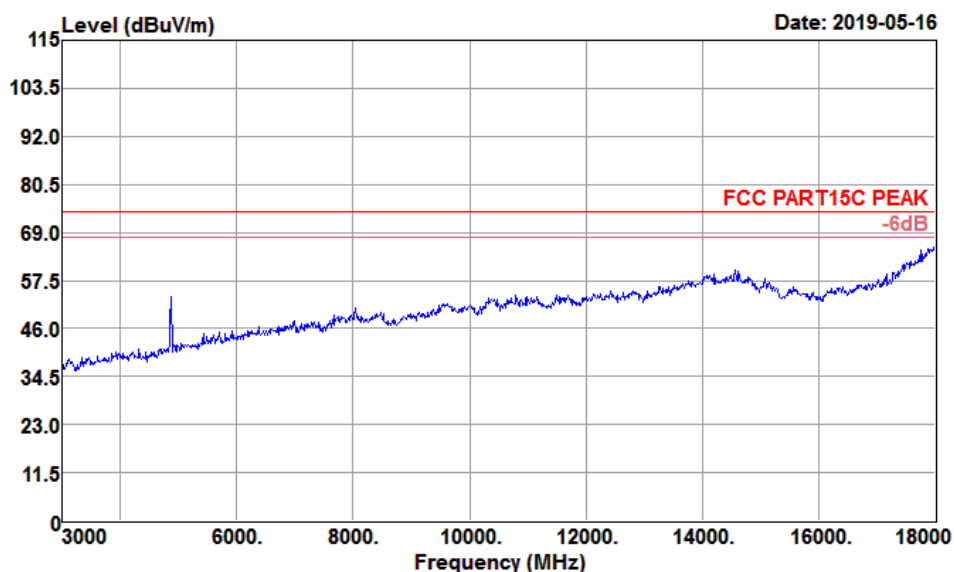
Test Mode :	802.11b CH06 (2437MHz)	Temperature :	21°C
Test Engineer :	Julie Deng	Relative Humidity :	63%
Test Distance :	3m	Polarization :	Vertical

Data: 89



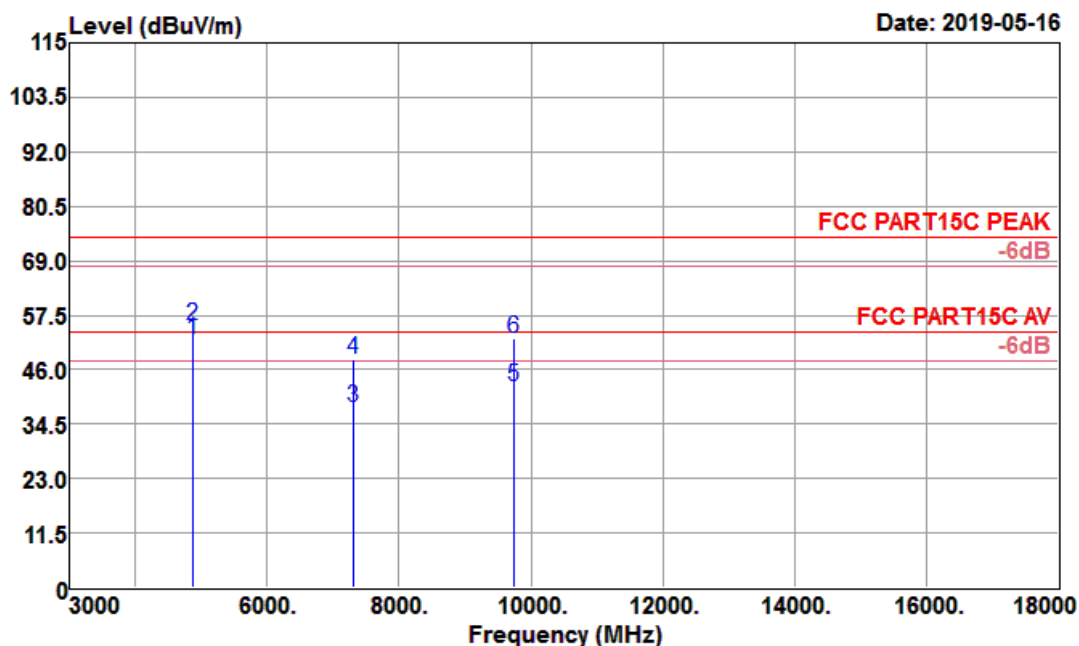
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2438.000	89.69	27.24	3.66	36.21	84.38	74.00	10.38	Peak

Data: 34



Data: 35

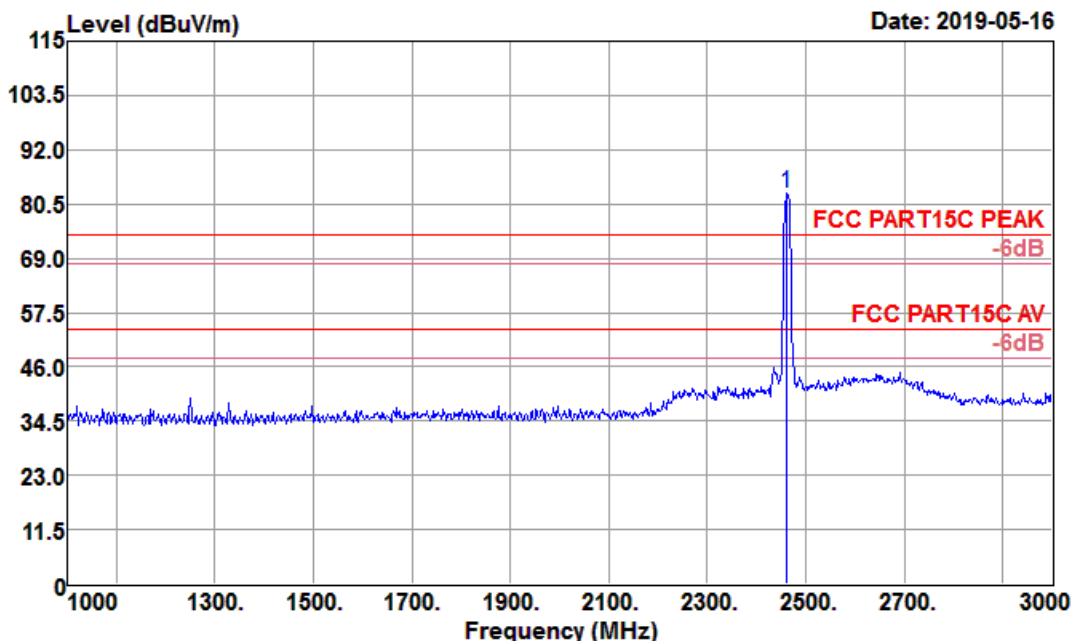
Date: 2019-05-16



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamplifier factor dB	Level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4874.000	51.62	31.40	5.41	36.24	52.19	54.00	-1.81	Average
4874.000	54.69	31.40	5.41	36.24	55.26	74.00	-18.74	Peak
7311.000	29.15	36.12	7.24	34.35	38.16	54.00	-15.84	Average
7311.000	39.01	36.12	7.24	34.35	48.02	74.00	-25.98	Peak
9748.000	30.64	38.05	7.96	34.19	42.46	54.00	-11.54	Average
9748.000	40.93	38.05	7.96	34.19	52.75	74.00	-21.25	Peak

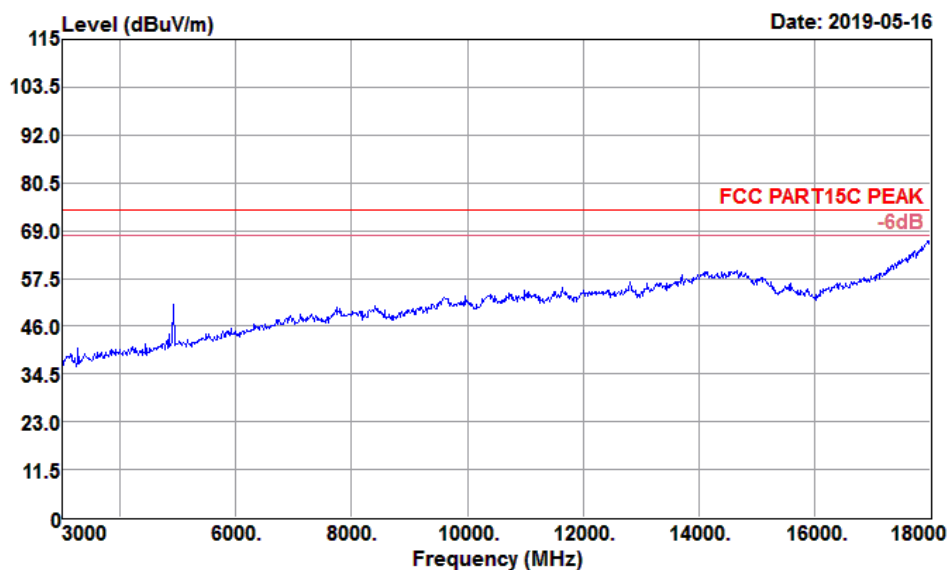
Test Mode :	802.11b CH11(2462MHz)	Temperature :	21°C
Test Engineer :	Julie Deng	Relative Humidity :	63%
Test Distance :	3m	Polarization :	Horizontal

Data: 90



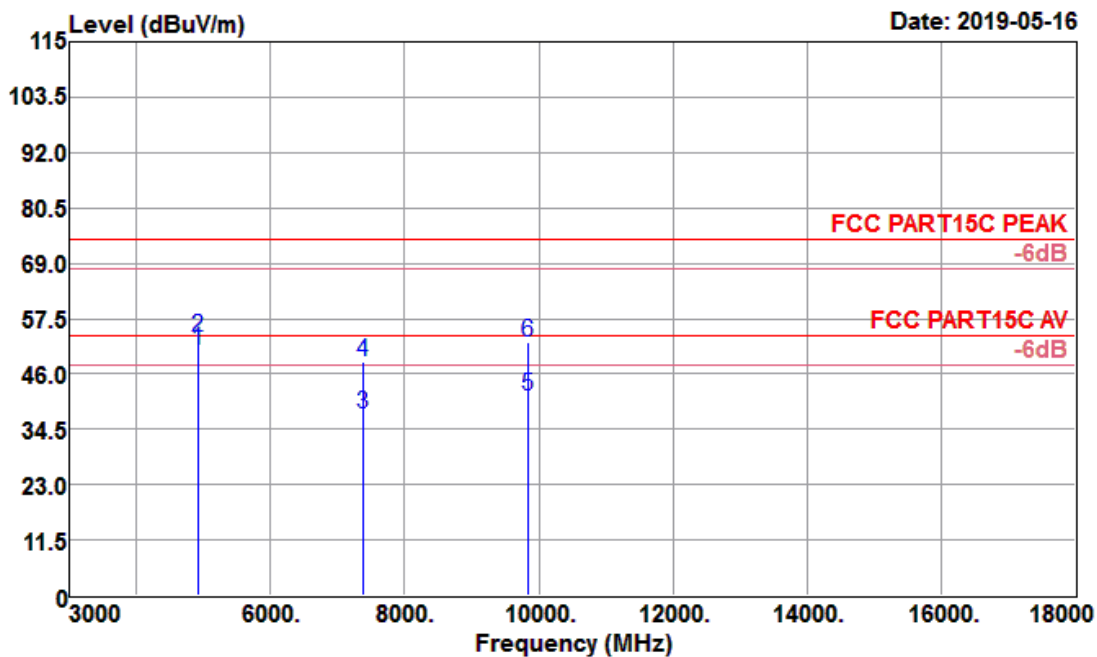
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2462.000	88.13	27.30	3.67	36.27	82.83	74.00	8.83	Peak

Data: 40



Data: 41

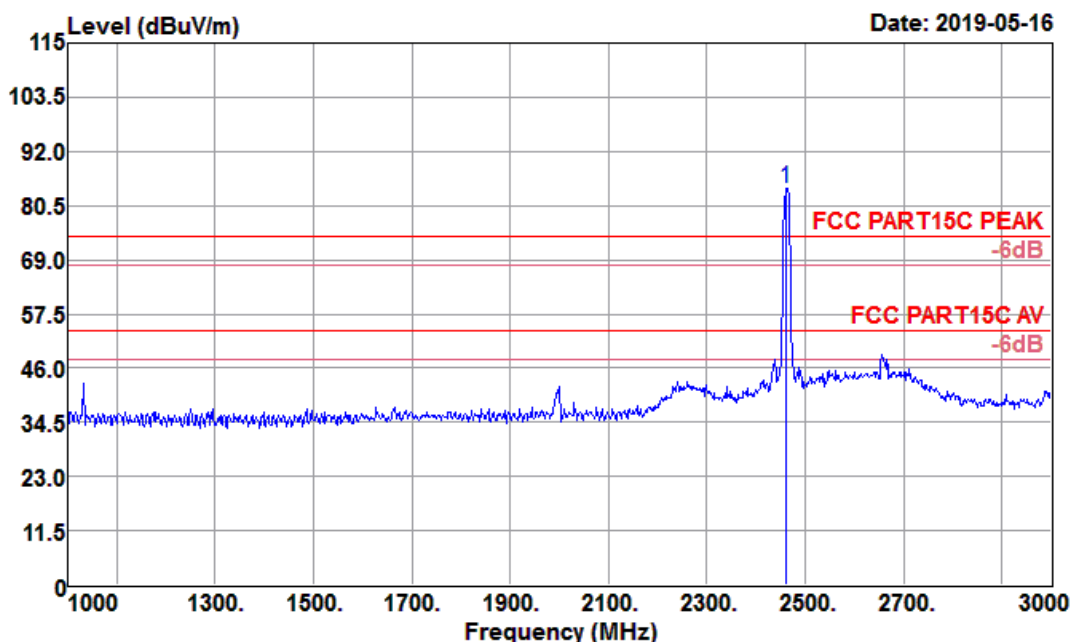
Date: 2019-05-16



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamplifier factor dB	Level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4924.000	50.17	31.52	5.38	36.23	50.84	54.00	-3.16	Average
4924.000	53.07	31.52	5.38	36.23	53.74	74.00	-20.26	Peak
7386.000	28.32	36.29	7.46	34.42	37.65	54.00	-16.35	Average
7386.000	39.06	36.29	7.46	34.42	48.39	74.00	-25.61	Peak
9848.000	29.35	38.23	8.04	34.23	41.39	54.00	-12.61	Average
9848.000	40.65	38.23	8.04	34.23	52.69	74.00	-21.31	Peak

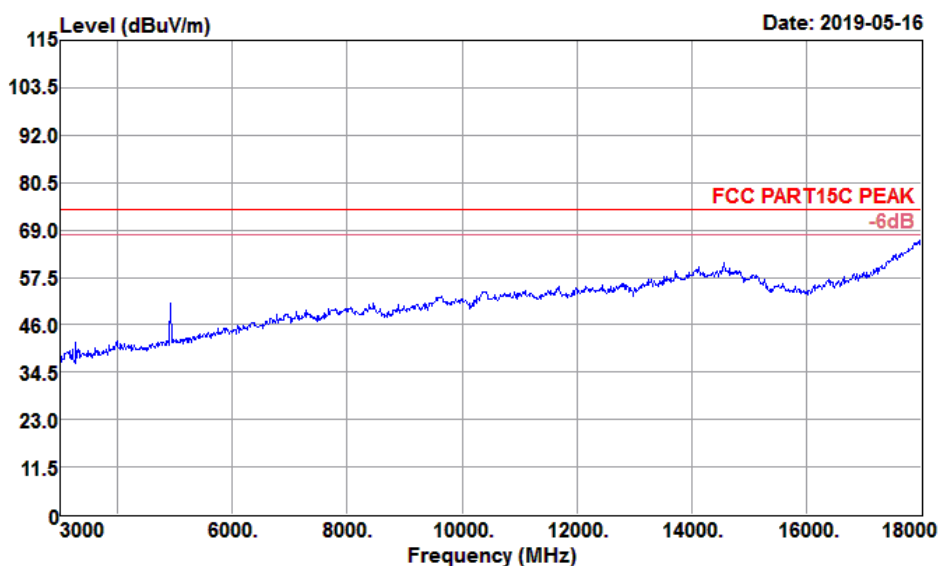
Test Mode :	802.11b CH11(2462MHz)	Temperature :	21°C
Test Engineer :	Julie Deng	Relative Humidity :	63%
Test Distance :	3m	Polarization :	Vertical

Data: 91



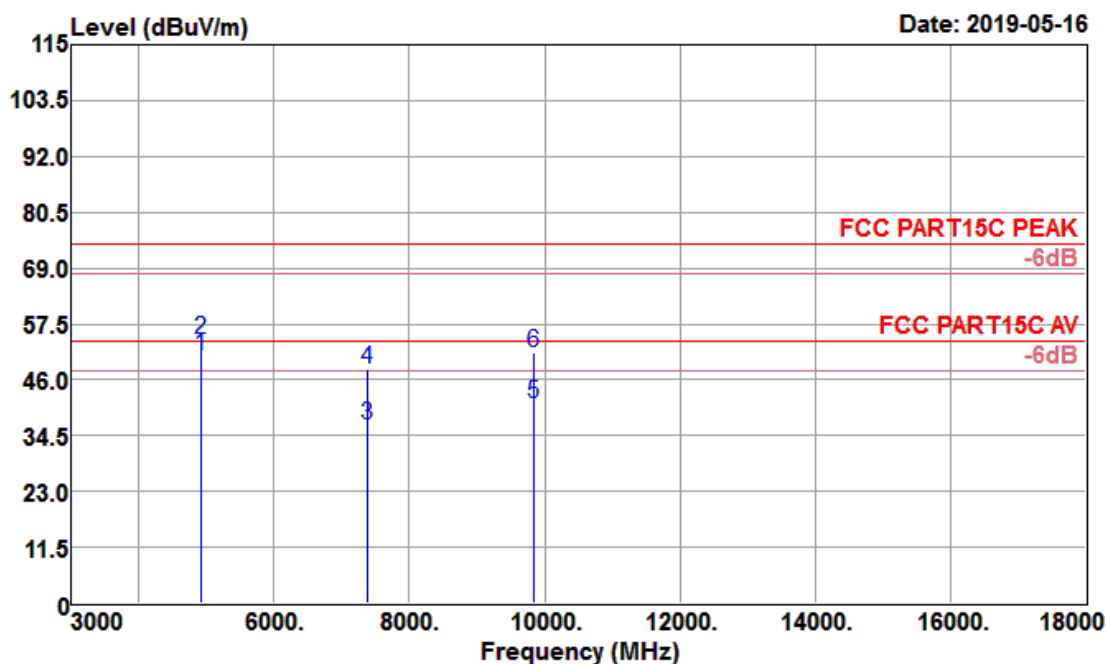
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2462.000	89.46	27.30	3.67	36.27	84.16	74.00	10.16	Peak

Data: 38



Data: 39

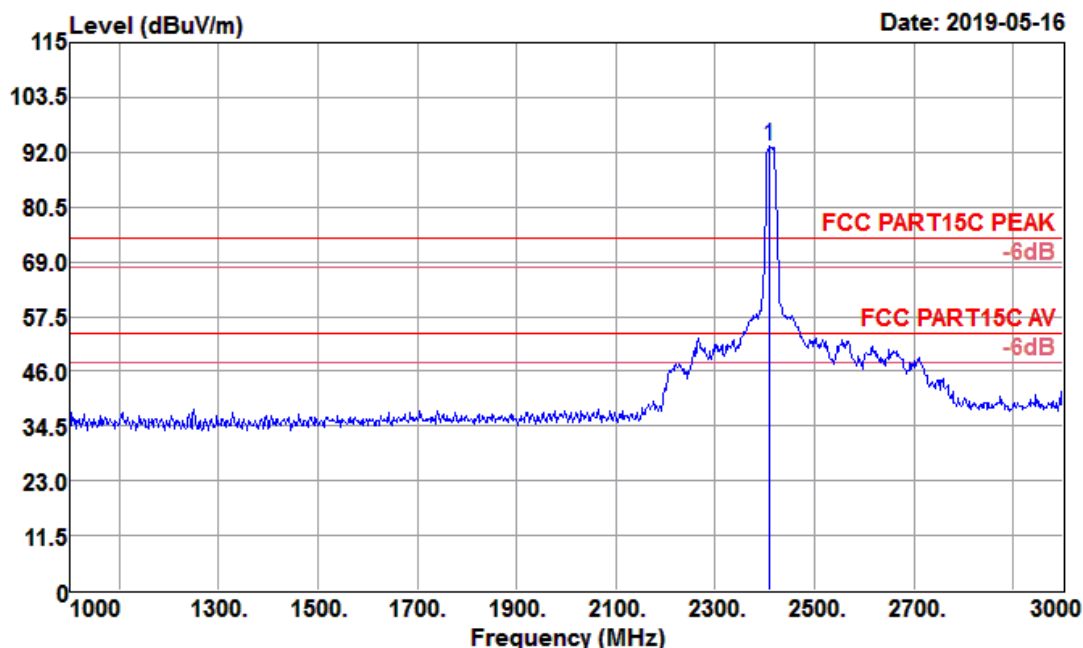
Date: 2019-05-16



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamplifier factor dB	Level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4924.000	50.28	31.52	5.38	36.23	50.95	54.00	-3.05	Average
4924.000	53.60	31.52	5.38	36.23	54.27	74.00	-19.73	Peak
7386.000	27.30	36.29	7.46	34.42	36.63	54.00	-17.37	Average
7386.000	38.78	36.29	7.46	34.42	48.11	74.00	-25.89	Peak
9848.000	29.00	38.23	8.04	34.23	41.04	54.00	-12.96	Average
9848.000	39.43	38.23	8.04	34.23	51.47	74.00	-22.53	Peak

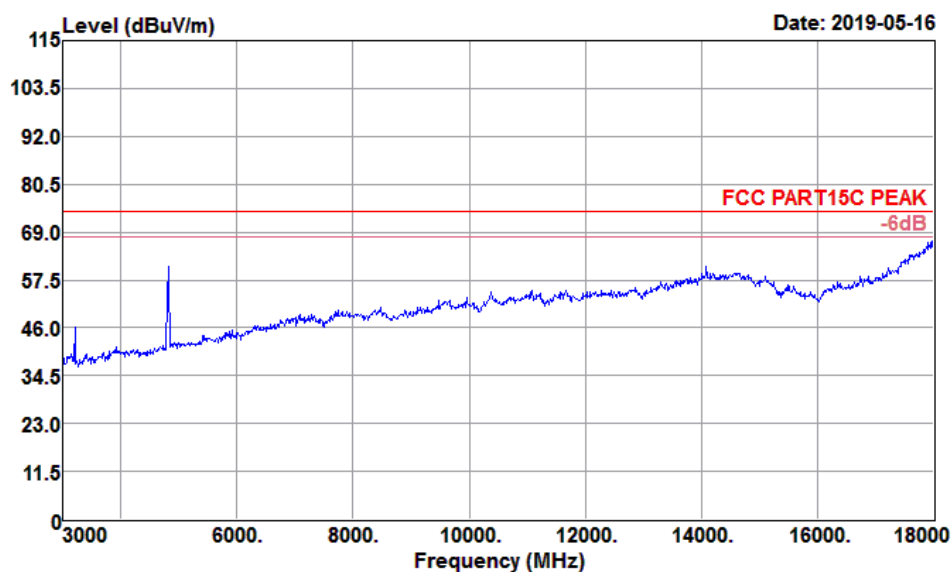
Test Mode :	802.11g CH01(2412MHz)	Temperature :	21°C
Test Engineer :	Julie Deng	Relative Humidity :	63%
Test Distance :	3m	Polarization :	Horizontal

Data: 93



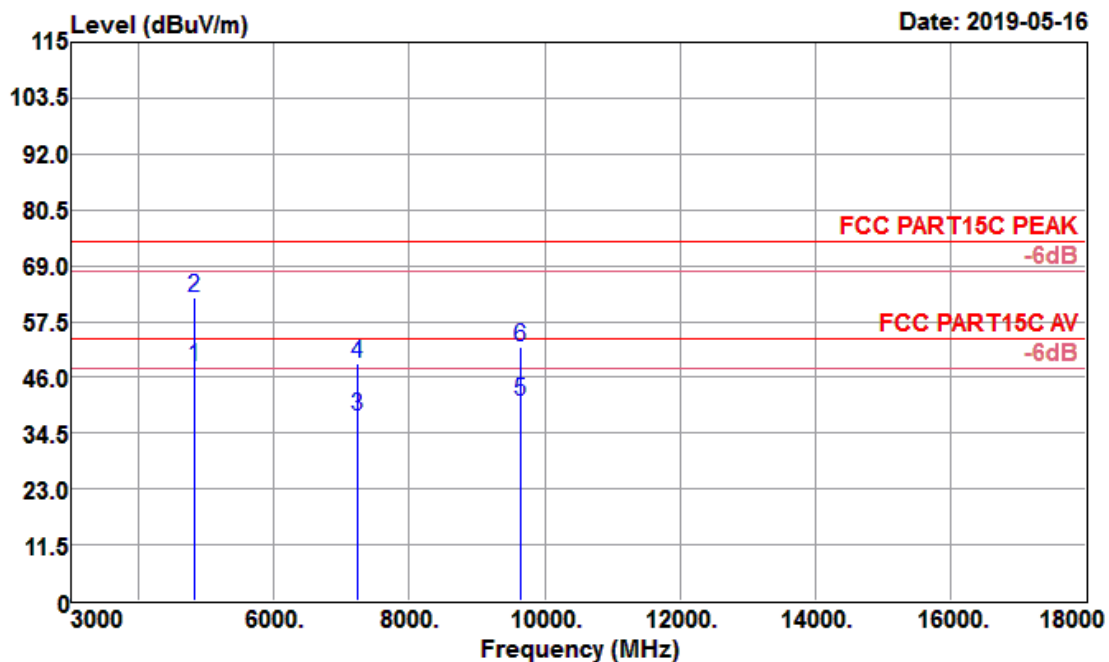
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2410.000	98.50	27.17	3.65	36.13	93.19	74.00	19.19	Peak

Data: 46



Data: 47

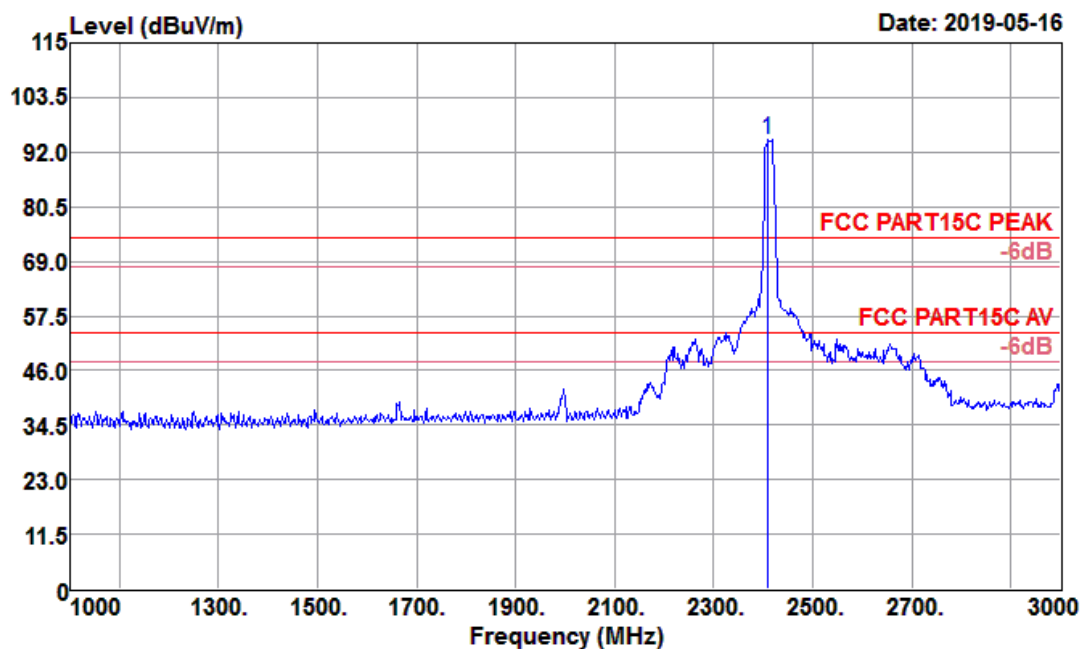
Date: 2019-05-16



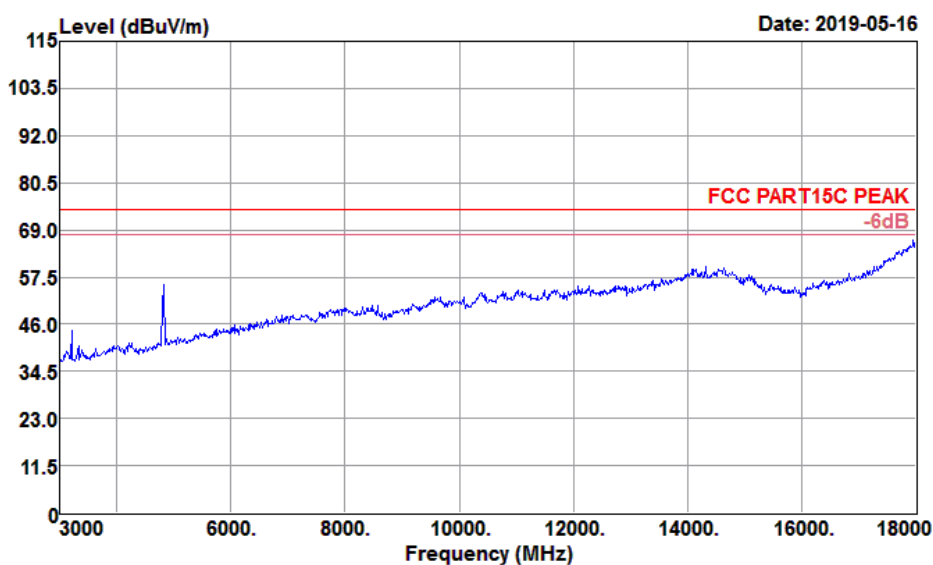
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamplifier factor dB	Level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4824.000	47.74	31.28	5.44	36.26	48.20	54.00	-5.80	Average
4824.000	61.90	31.28	5.44	36.26	62.36	74.00	-11.64	Peak
7236.000	29.32	35.94	7.02	34.27	38.01	54.00	-15.99	Average
7236.000	40.13	35.94	7.02	34.27	48.82	74.00	-25.18	Peak
9648.000	29.63	37.87	7.82	34.15	41.17	54.00	-12.83	Average
9648.000	40.86	37.87	7.82	34.15	52.40	74.00	-21.60	Peak

Test Mode :	802.11g CH01(2412MHz)	Temperature :	21°C
Test Engineer :	Julie Deng	Relative Humidity :	63%
Test Distance :	3m	Polarization :	Vertical

Data: 92

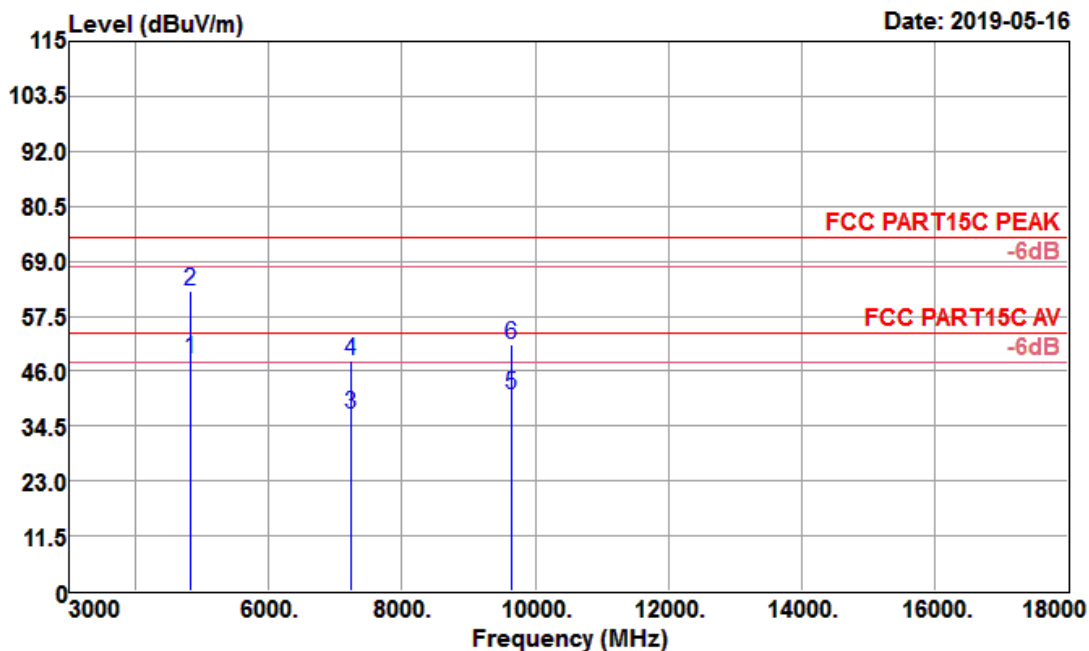


Data: 48



Data: 49

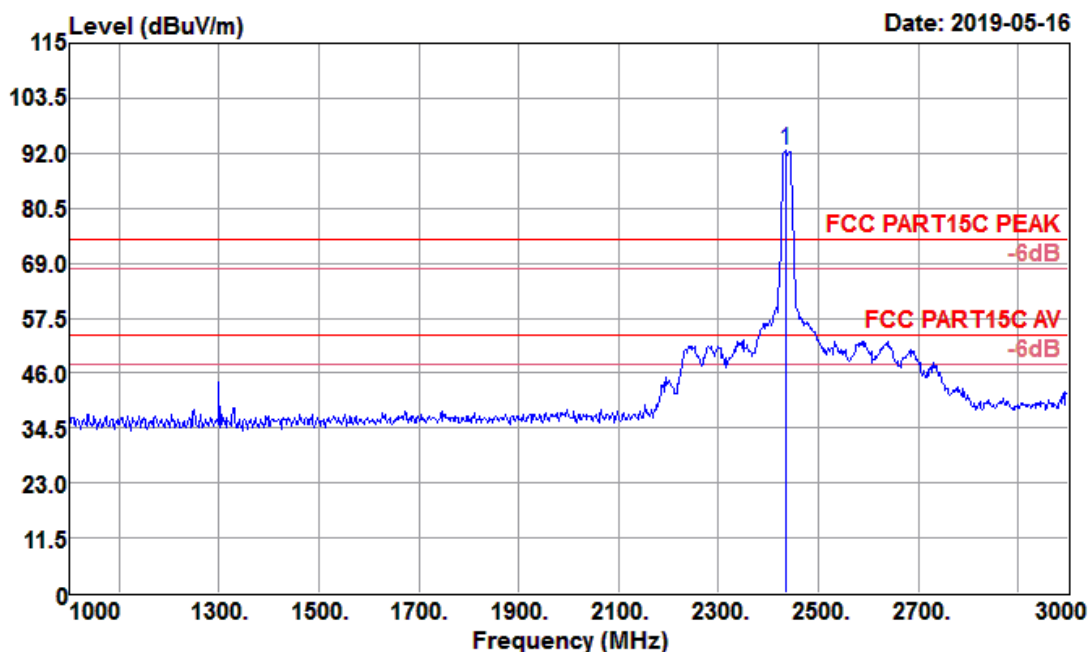
Date: 2019-05-16



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4824.000	48.14	31.28	5.44	36.26	48.60	54.00	-5.40	Average
4824.000	62.45	31.28	5.44	36.26	62.91	74.00	-11.09	Peak
7236.000	28.36	35.94	7.02	34.27	37.05	54.00	-16.95	Average
7236.000	39.66	35.94	7.02	34.27	48.35	74.00	-25.65	Peak
9648.000	29.42	37.87	7.82	34.15	40.96	54.00	-13.04	Average
9648.000	40.09	37.87	7.82	34.15	51.63	74.00	-22.37	Peak

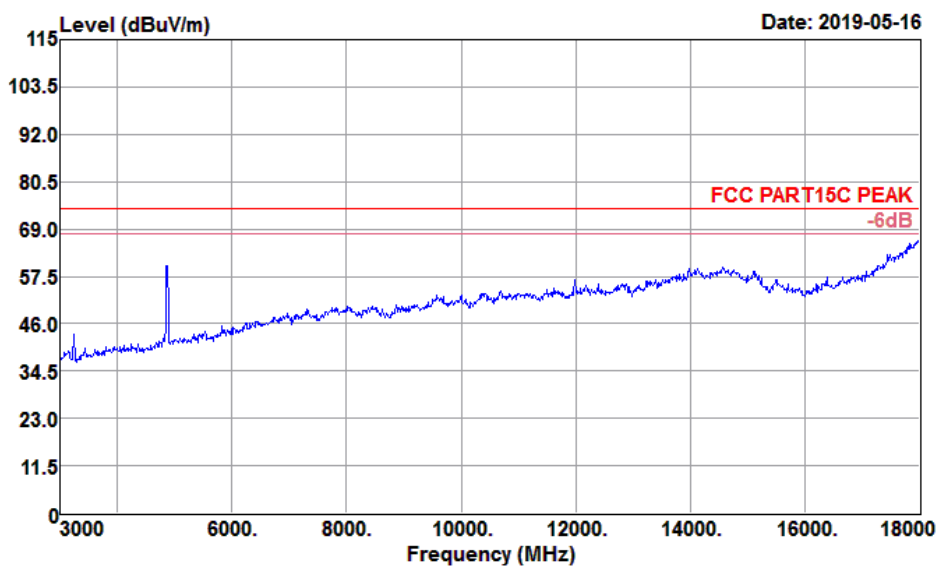
Test Mode :	802.11g CH06 (2437MHz)	Temperature :	21°C
Test Engineer :	Julie Deng	Relative Humidity :	63%
Test Distance :	3m	Polarization :	Horizontal

Data: 95

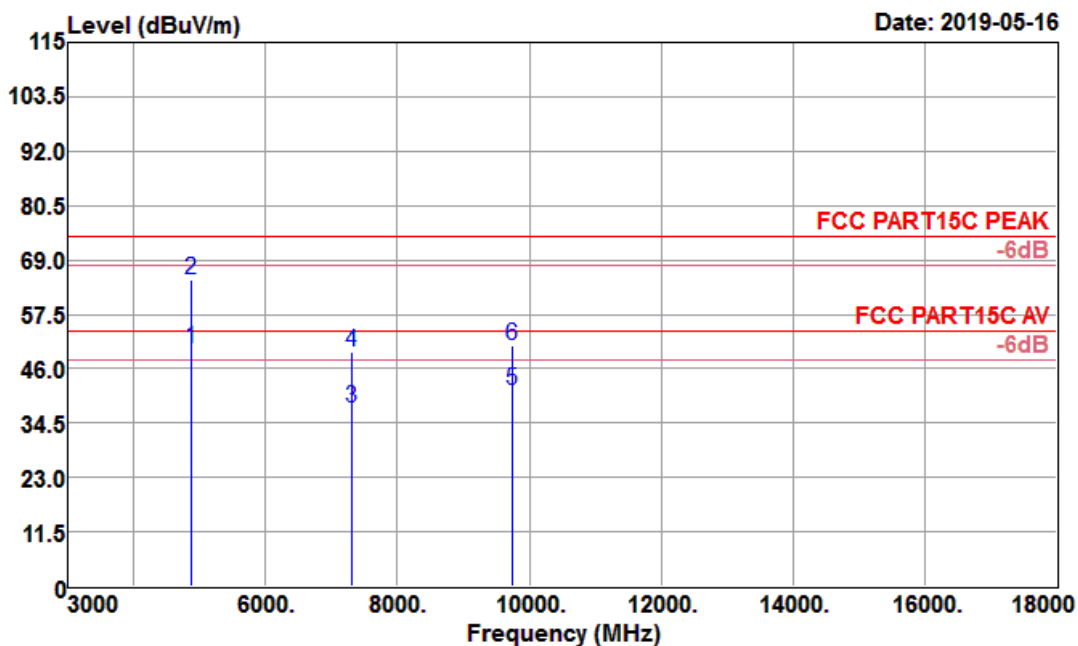


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2434.000	97.78	27.23	3.66	36.20	92.47	74.00	18.47	Peak

Data: 54

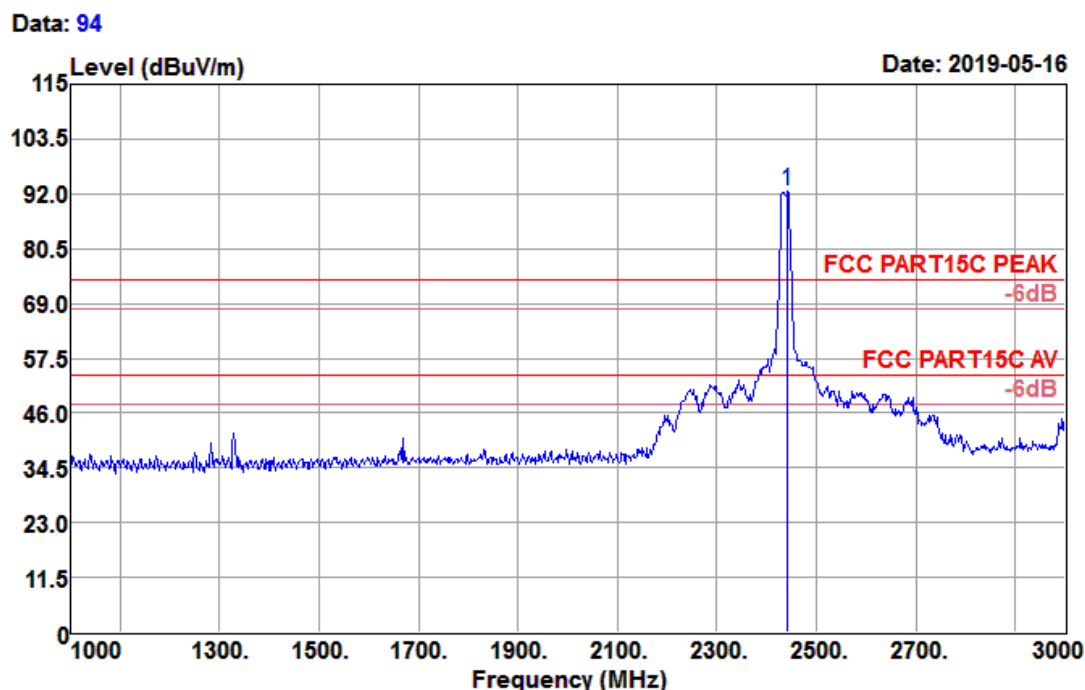


Data: 55

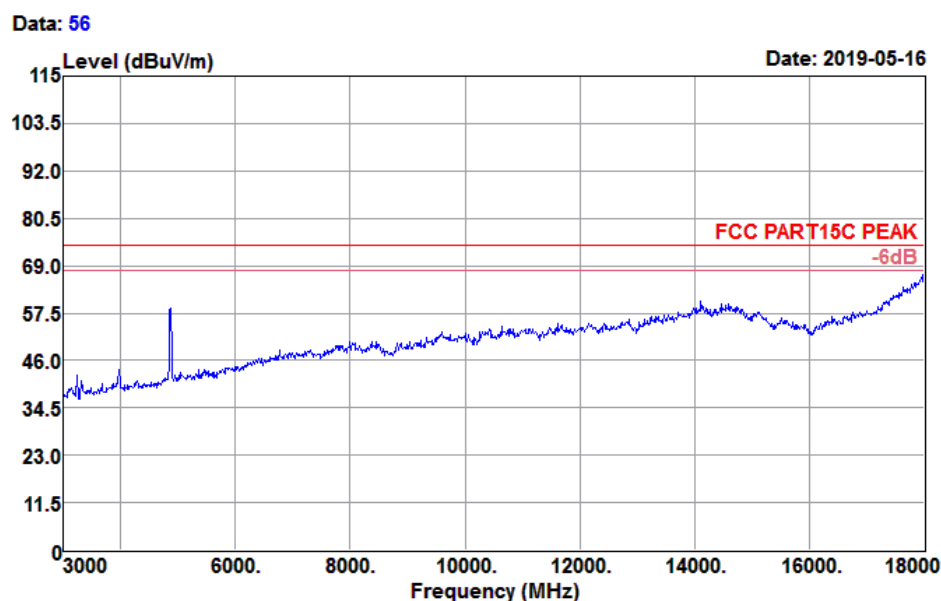


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4874.000	49.80	31.40	5.41	36.24	50.37	54.00	-3.63	Average
4874.000	64.40	31.40	5.41	36.24	64.97	74.00	-9.03	Peak
7311.000	28.63	36.12	7.24	34.35	37.64	54.00	-16.36	Average
7311.000	40.47	36.12	7.24	34.35	49.48	74.00	-24.52	Peak
9748.000	29.71	38.05	7.96	34.19	41.53	54.00	-12.47	Average
9748.000	39.08	38.05	7.96	34.19	50.90	74.00	-23.10	Peak

Test Mode :	802.11g CH06 (2437MHz)	Temperature :	21°C
Test Engineer :	Julie Deng	Relative Humidity :	63%
Test Distance :	3m	Polarization :	Vertical

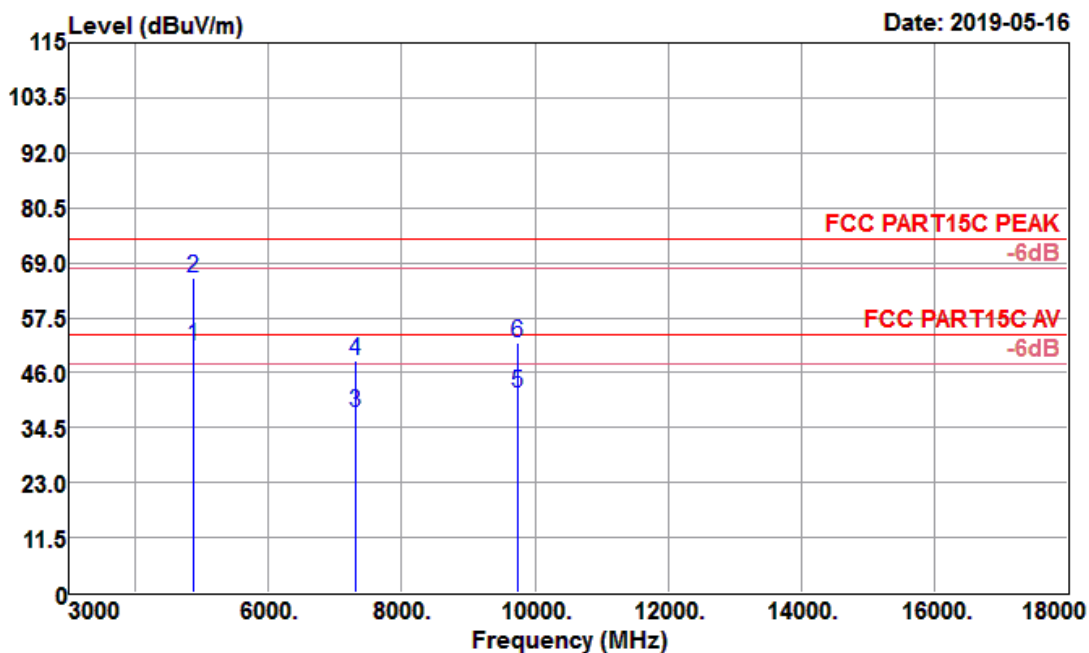


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2442.000	97.77	27.25	3.66	36.22	92.46	74.00	18.46	Peak



Data: 57

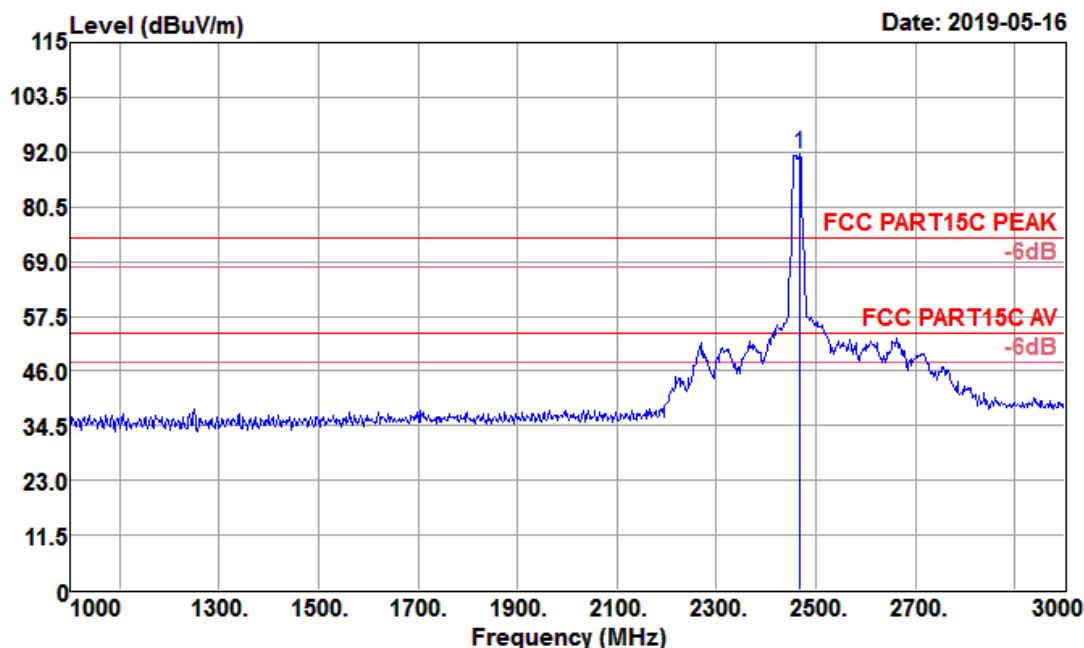
Date: 2019-05-16



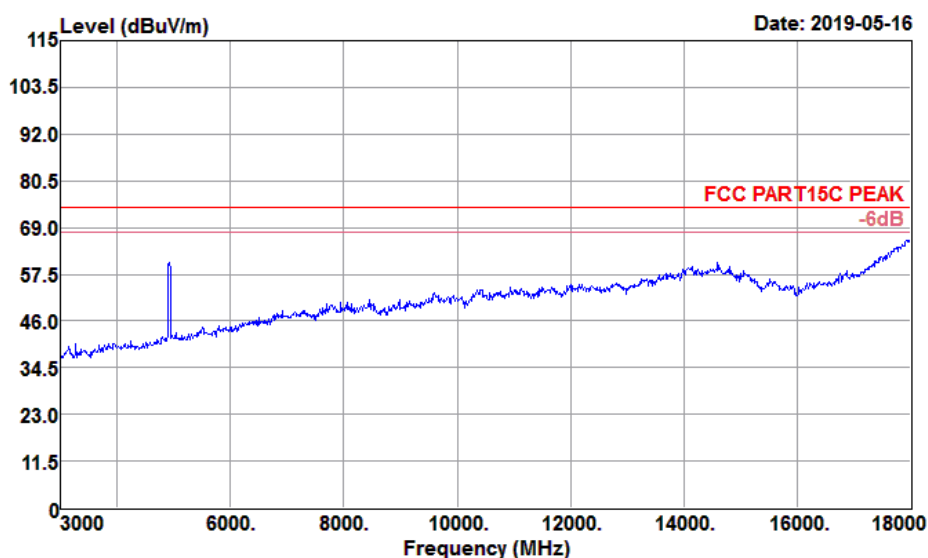
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4874.000	50.87	31.40	5.41	36.24	51.44	54.00	-2.56	Average
4874.000	65.11	31.40	5.41	36.24	65.68	74.00	-8.32	Peak
7311.000	28.69	36.12	7.24	34.35	37.70	54.00	-16.30	Average
7311.000	39.46	36.12	7.24	34.35	48.47	74.00	-25.53	Peak
9748.000	29.95	38.05	7.96	34.19	41.77	54.00	-12.23	Average
9748.000	40.29	38.05	7.96	34.19	52.11	74.00	-21.89	Peak

Test Mode :	802.11g CH11(2462MHz)	Temperature :	21°C
Test Engineer :	Julie Deng	Relative Humidity :	63%
Test Distance :	3m	Polarization :	Horizontal

Data: 97

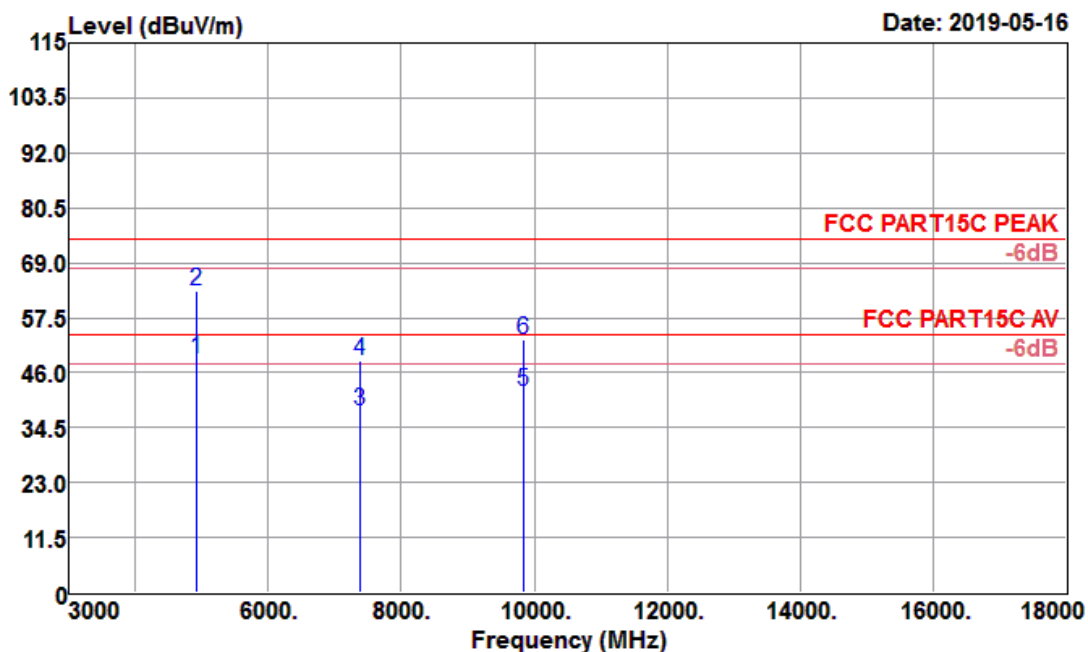


Data: 60



Data: 61

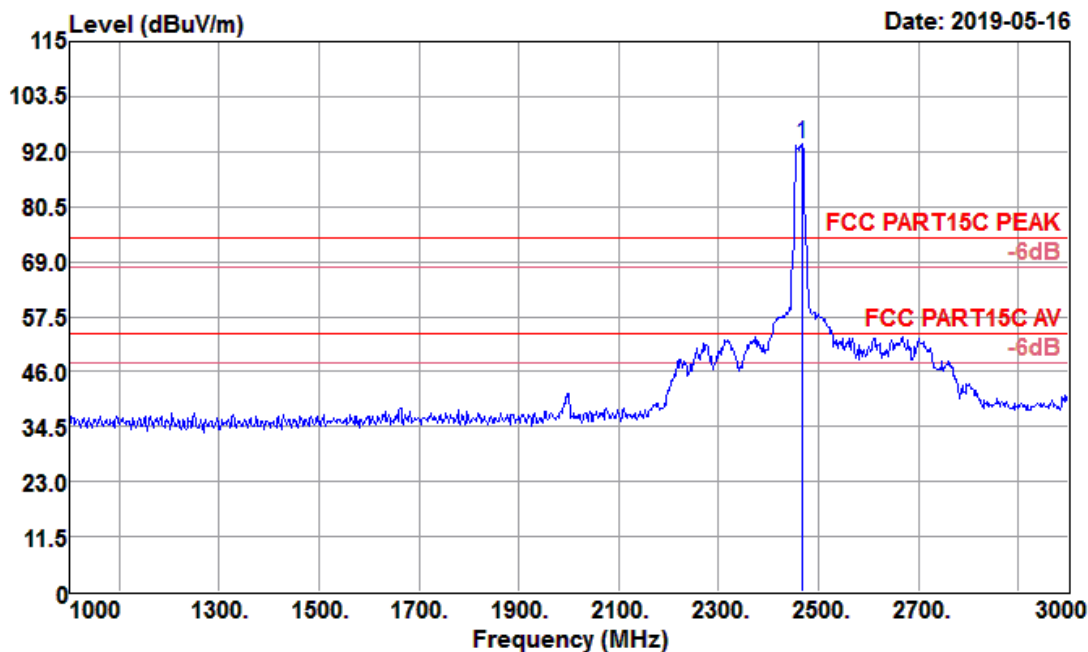
Date: 2019-05-16



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4924.000	48.16	31.52	5.38	36.23	48.83	54.00	-5.17	Average
4924.000	62.51	31.52	5.38	36.23	63.18	74.00	-10.82	Peak
7386.000	28.69	36.29	7.46	34.42	38.02	54.00	-15.98	Average
7386.000	39.29	36.29	7.46	34.42	48.62	74.00	-25.38	Peak
9848.000	30.07	38.23	8.04	34.23	42.11	54.00	-11.89	Average
9848.000	40.85	38.23	8.04	34.23	52.89	74.00	-21.11	Peak

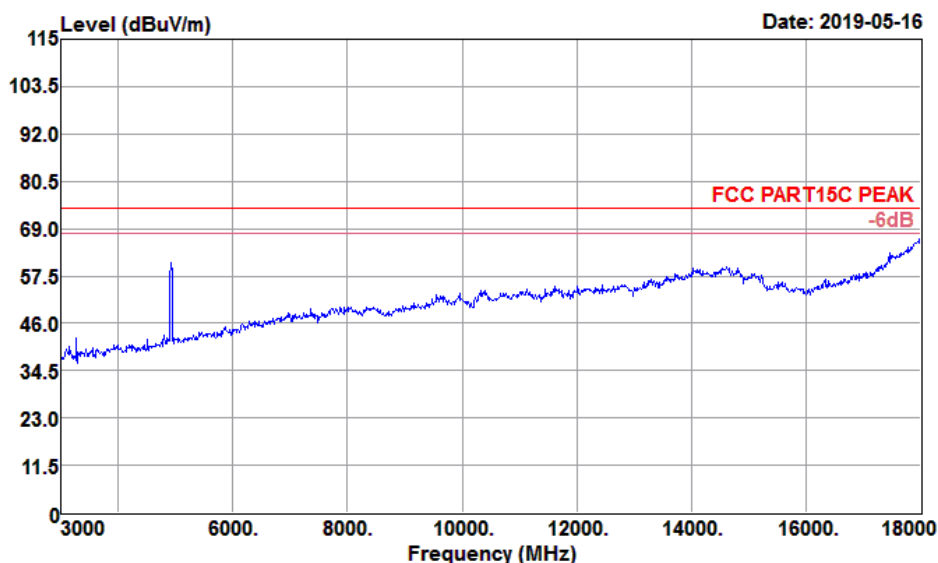
Test Mode :	802.11g CH11(2462MHz)	Temperature :	21°C
Test Engineer :	Julie Deng	Relative Humidity :	63%
Test Distance :	3m	Polarization :	Vertical

Data: 96



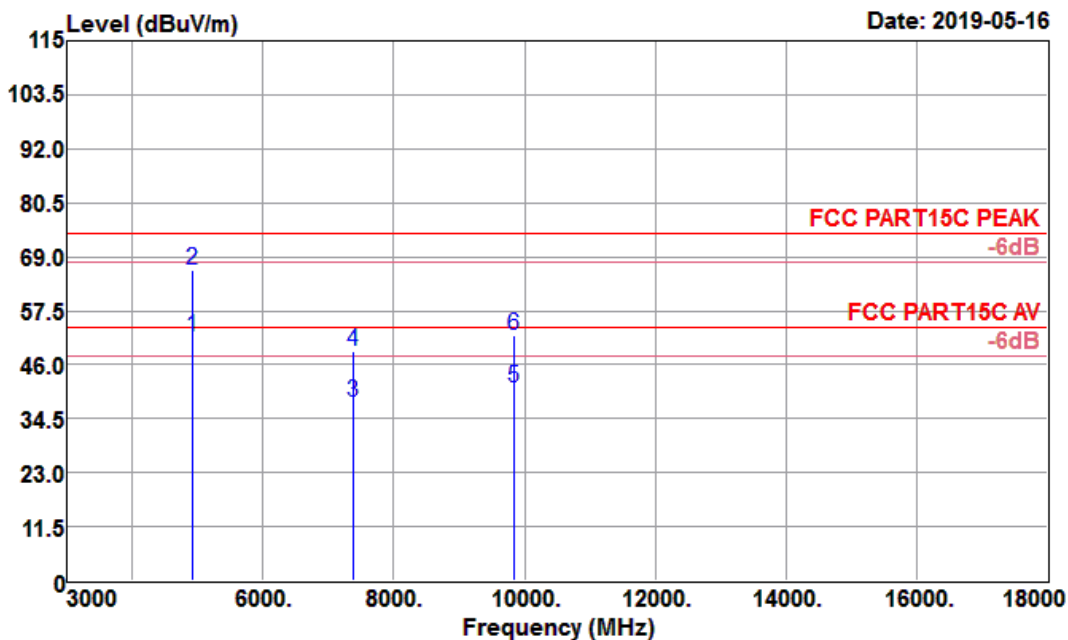
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2466.000	98.92	27.31	3.67	36.28	93.62	74.00	19.62	Peak

Data: 58



Data: 59

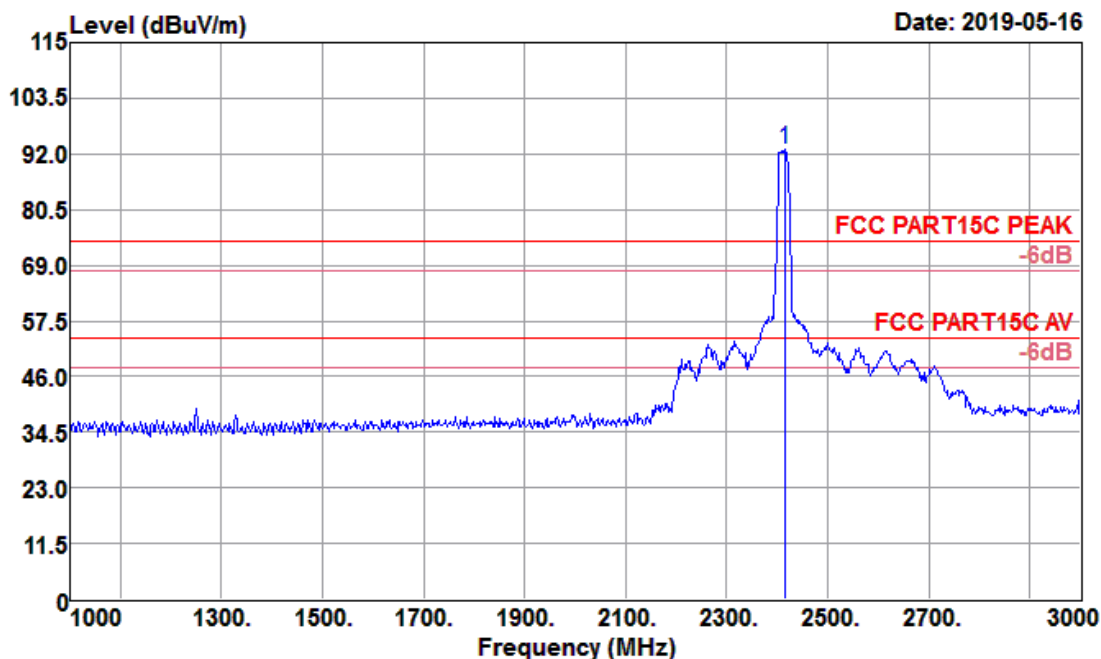
Date: 2019-05-16



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamplifier factor dB	Level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4924.000	51.32	31.52	5.38	36.23	51.99	54.00	-2.01	Average
4924.000	65.64	31.52	5.38	36.23	66.31	74.00	-7.69	Peak
7386.000	28.56	36.29	7.46	34.42	37.89	54.00	-16.11	Average
7386.000	39.40	36.29	7.46	34.42	48.73	74.00	-25.27	Peak
9848.000	29.11	38.23	8.04	34.23	41.15	54.00	-12.85	Average
9848.000	40.12	38.23	8.04	34.23	52.16	74.00	-21.84	Peak

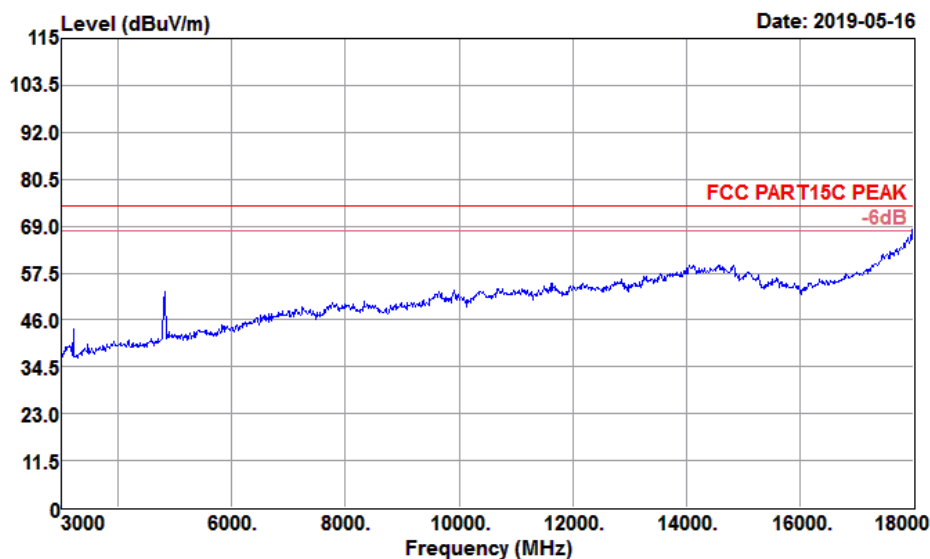
Test Mode :	802.11n20 CH01(2412MHz)	Temperature :	21°C
Test Engineer :	Julie Deng	Relative Humidity :	63%
Test Distance :	3m	Polarization :	Horizontal

Data: 98



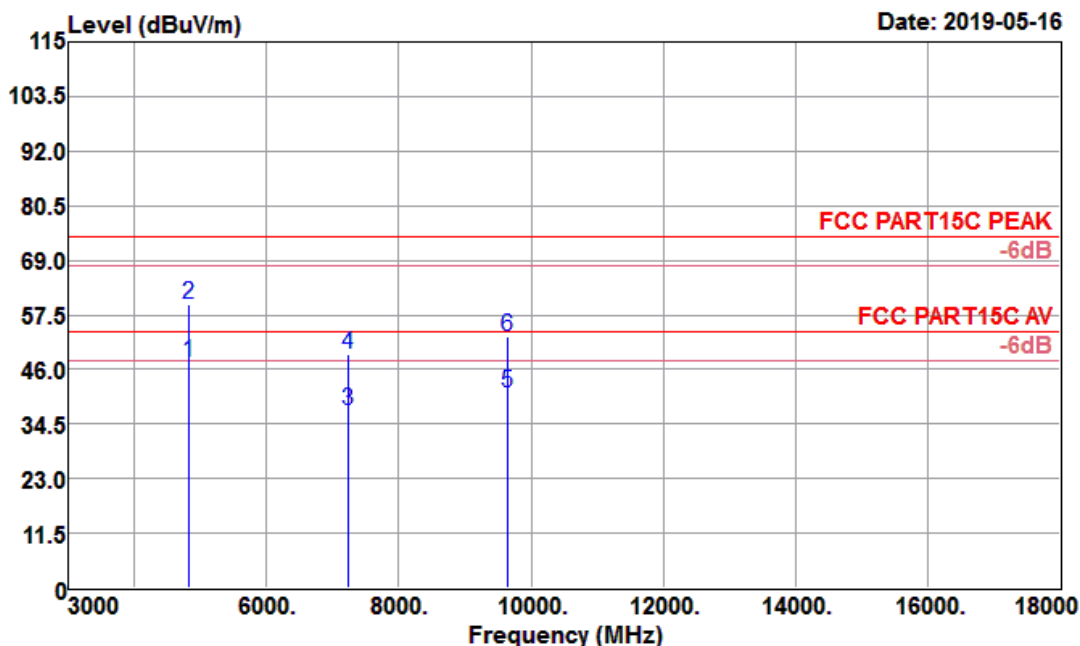
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2414.000	98.27	27.18	3.65	36.14	92.96	74.00	18.96	Peak

Data: 68



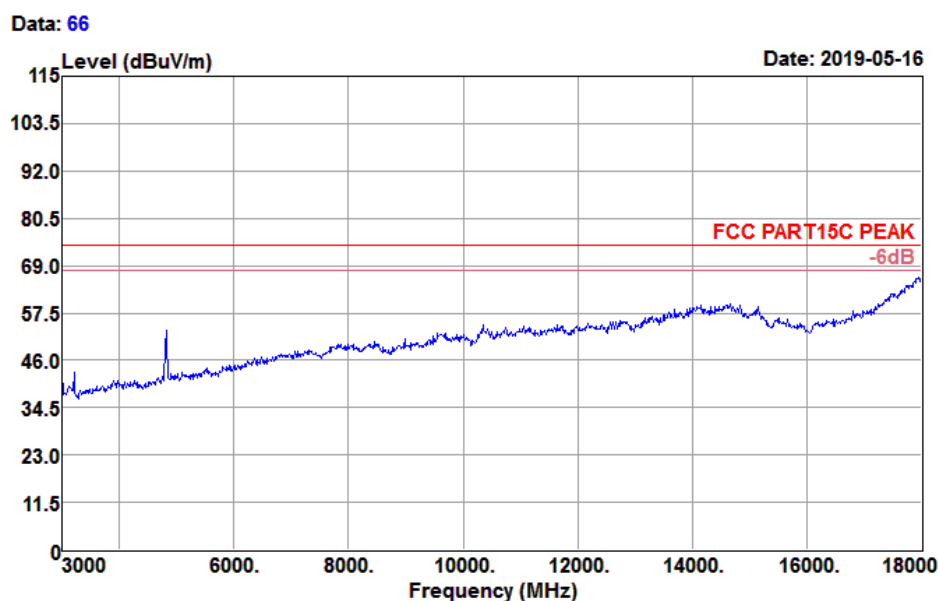
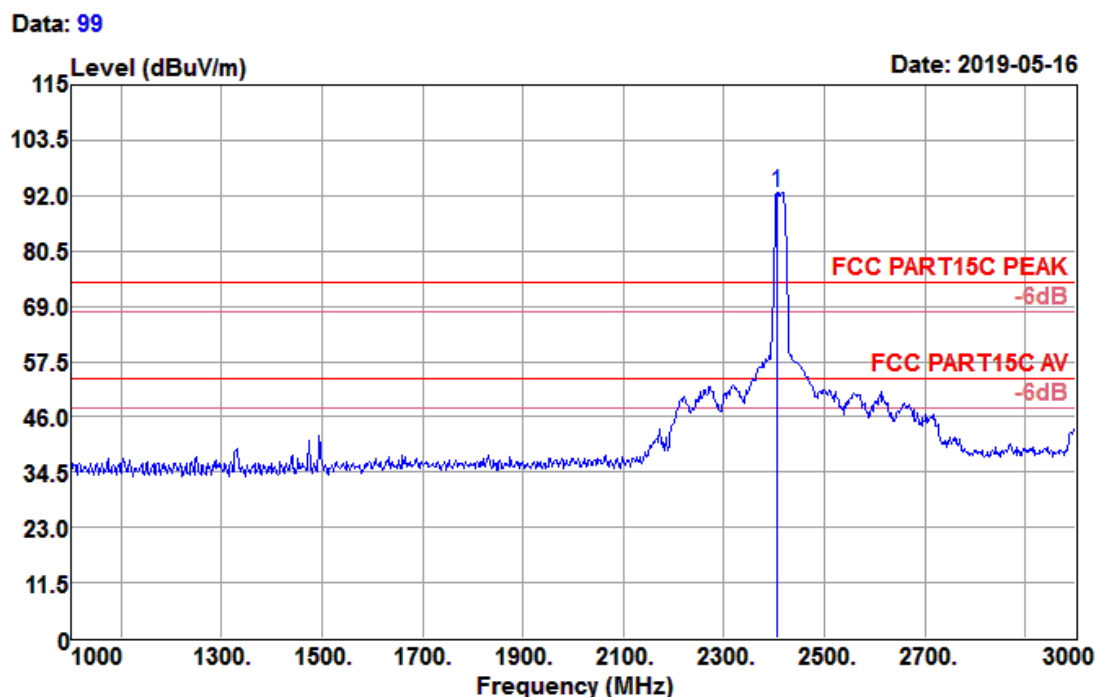
Data: 69

Date: 2019-05-16



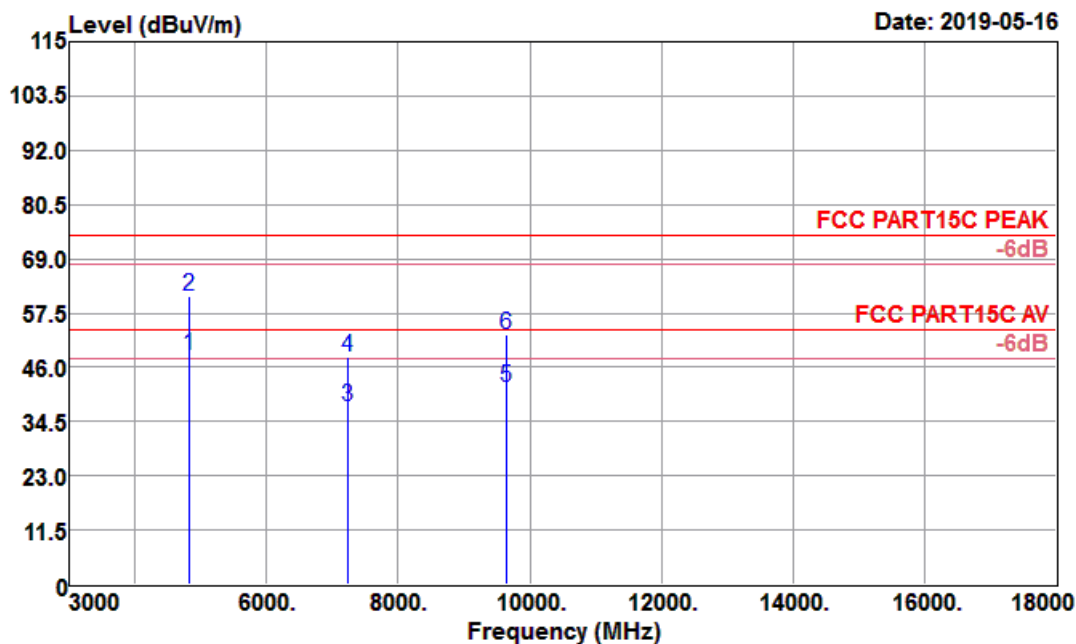
Freq MHz	Reading level dBUV	Antenna factor dB/m	Cable loss dB	Preamplifier factor dB	Level dBUV/m	Limit level dBUV/m	Over limit dB	Remark
4824.000	47.09	31.28	5.44	36.26	47.55	54.00	-6.45	Average
4824.000	59.27	31.28	5.44	36.26	59.73	74.00	-14.27	Peak
7236.000	28.62	35.94	7.02	34.27	37.31	54.00	-16.69	Average
7236.000	40.44	35.94	7.02	34.27	49.13	74.00	-24.87	Peak
9648.000	29.42	37.87	7.82	34.15	40.96	54.00	-13.04	Average
9648.000	41.28	37.87	7.82	34.15	52.82	74.00	-21.18	Peak

Test Mode :	802.11n20 CH01(2412MHz)	Temperature :	21°C
Test Engineer :	Julie Deng	Relative Humidity :	63%
Test Distance :	3m	Polarization :	Vertical



Data: 67

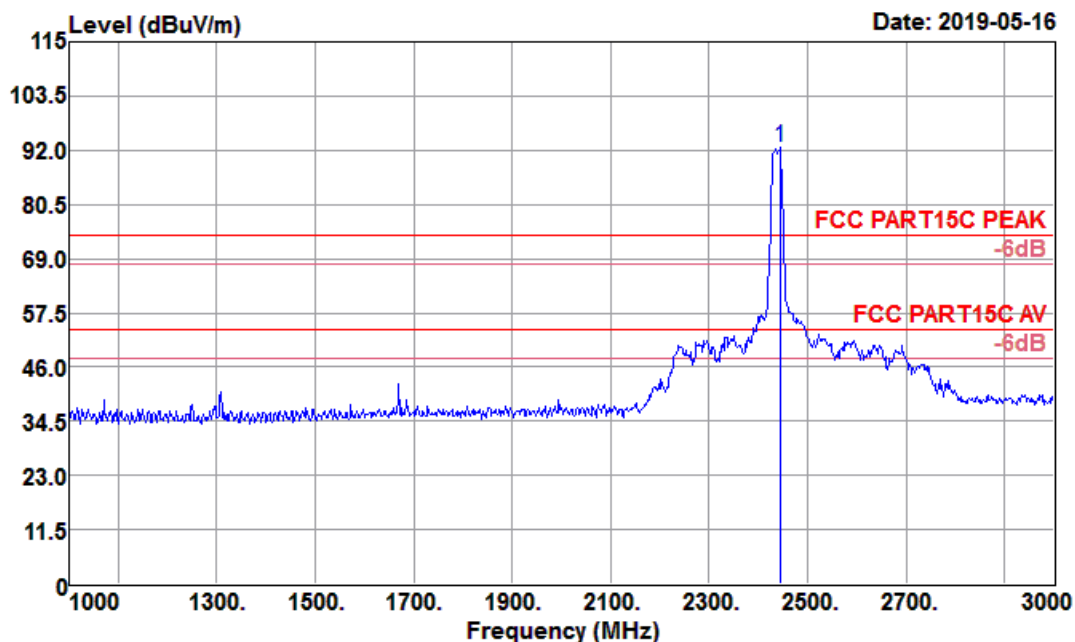
Date: 2019-05-16



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamplifier factor dB	Level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4824.000	47.96	31.28	5.44	36.26	48.42	54.00	-5.58	Average
4824.000	60.75	31.28	5.44	36.26	61.21	74.00	-12.79	Peak
7236.000	29.12	35.94	7.02	34.27	37.81	54.00	-16.19	Average
7236.000	39.58	35.94	7.02	34.27	48.27	74.00	-25.73	Peak
9648.000	30.26	37.87	7.82	34.15	41.80	54.00	-12.20	Average
9648.000	41.36	37.87	7.82	34.15	52.90	74.00	-21.10	Peak

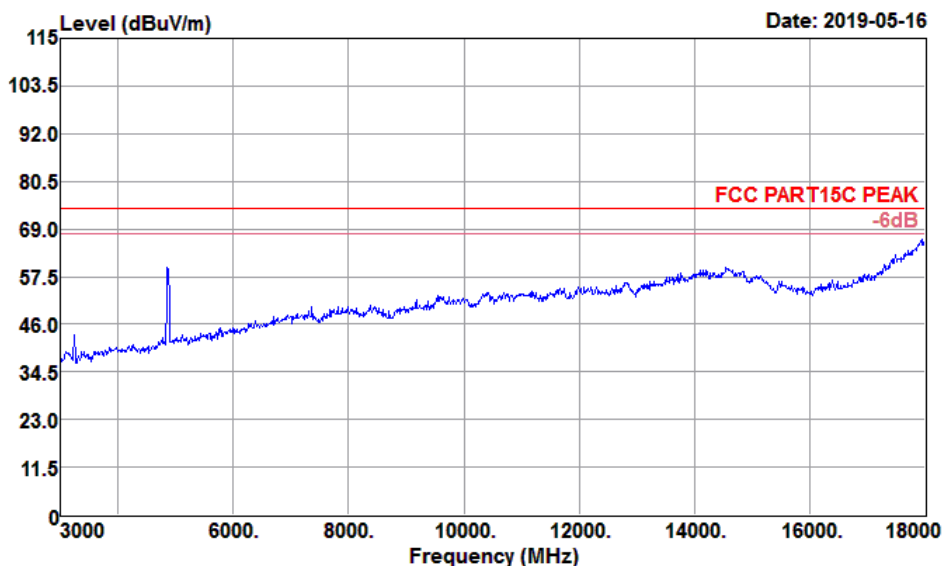
Test Mode :	802.11n20 CH06 (2437MHz)	Temperature :	21°C
Test Engineer :	Julie Deng	Relative Humidity :	63%
Test Distance :	3m	Polarization :	Horizontal

Data: 100



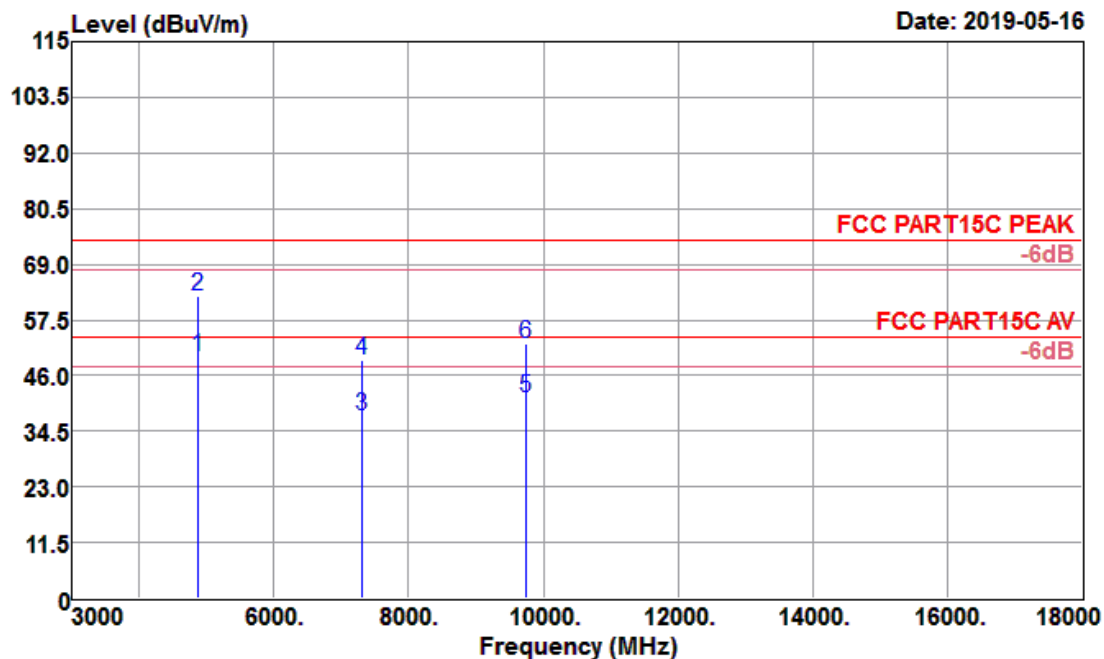
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2446.000	97.87	27.26	3.67	36.23	92.57	74.00	18.57	Peak

Data: 76



Data: 77

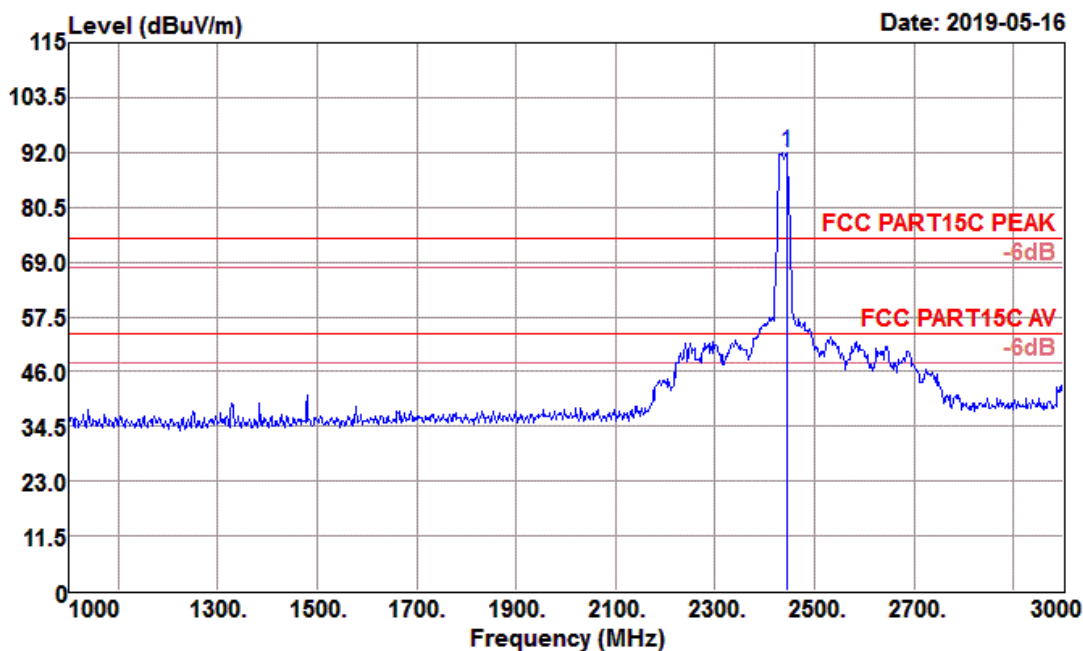
Date: 2019-05-16



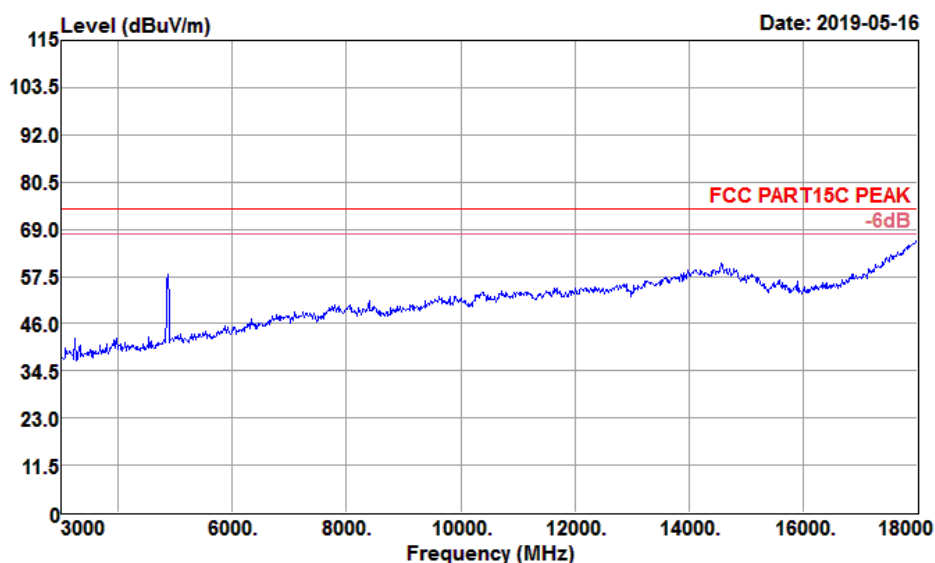
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4874.000	49.36	31.40	5.41	36.24	49.93	54.00	-4.07	Average
4874.000	61.87	31.40	5.41	36.24	62.44	74.00	-11.56	Peak
7311.000	28.54	36.12	7.24	34.35	37.55	54.00	-16.45	Average
7311.000	40.10	36.12	7.24	34.35	49.11	74.00	-24.89	Peak
9748.000	29.68	38.05	7.96	34.19	41.50	54.00	-12.50	Average
9748.000	40.63	38.05	7.96	34.19	52.45	74.00	-21.55	Peak

Test Mode :	802.11n20 CH06 (2437MHz)	Temperature :	21°C
Test Engineer :	Julie Deng	Relative Humidity :	63%
Test Distance :	3m	Polarization :	Vertical

Data: 101

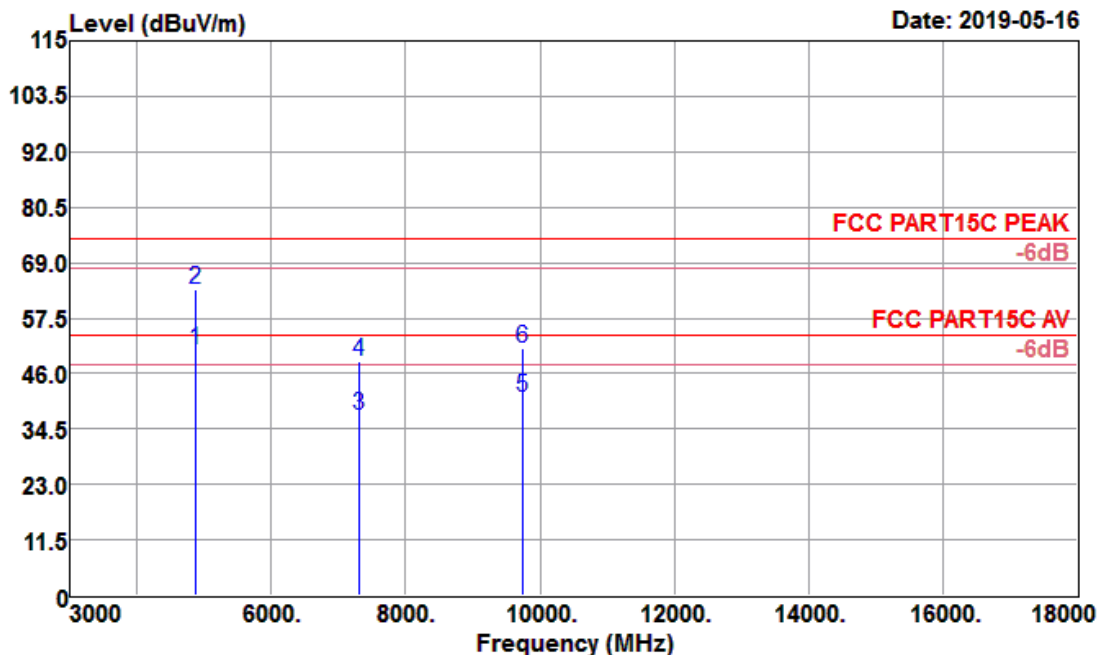


Data: 74



Data: 75

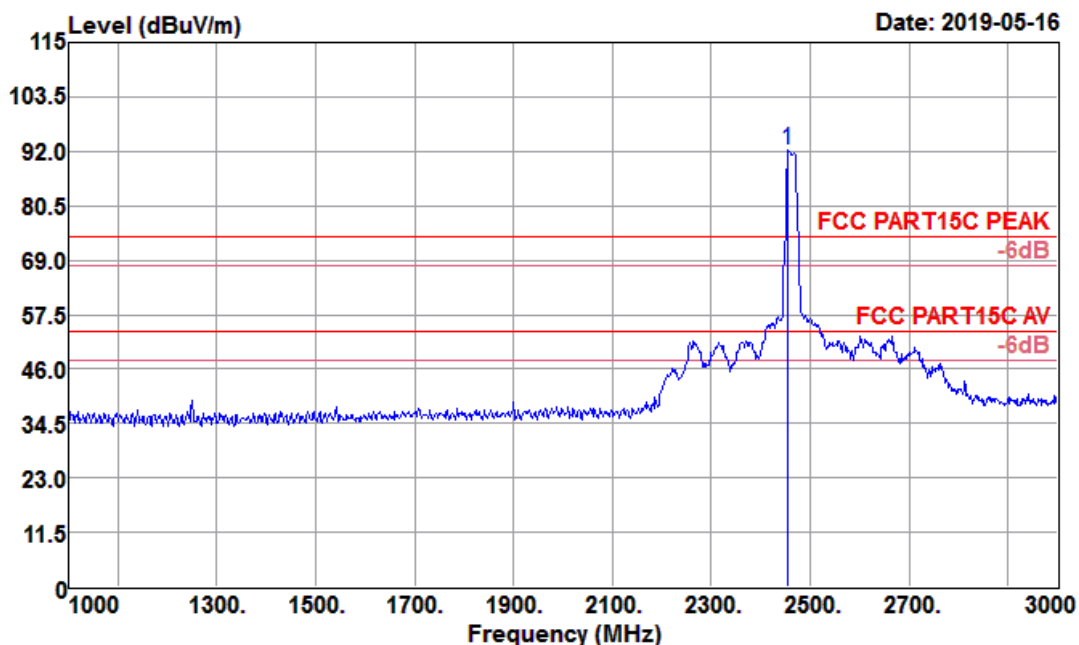
Date: 2019-05-16



Freq MHz	Reading level dBUV	Antenna factor dB/m	Cable loss dB	Preamplifier factor dB	Level dBUV/m	Limit level dBUV/m	Over limit dB	Remark
4874.000	50.42	31.40	5.41	36.24	50.99	54.00	-3.01	Average
4874.000	62.90	31.40	5.41	36.24	63.47	74.00	-10.53	Peak
7311.000	28.15	36.12	7.24	34.35	37.16	54.00	-16.84	Average
7311.000	39.47	36.12	7.24	34.35	48.48	74.00	-25.52	Peak
9748.000	29.41	38.05	7.96	34.19	41.23	54.00	-12.77	Average
9748.000	39.42	38.05	7.96	34.19	51.24	74.00	-22.76	Peak

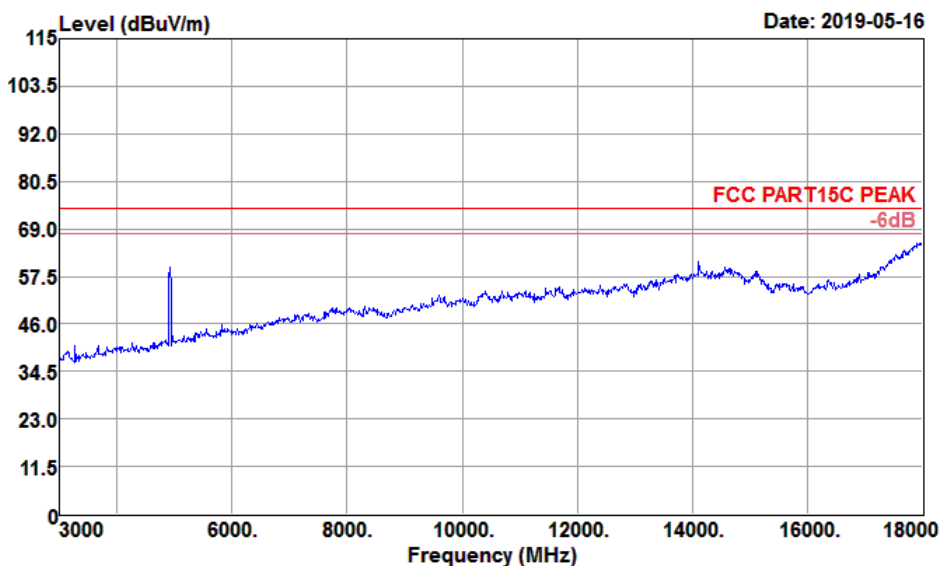
Test Mode :	802.11n20 CH11(2462MHz)	Temperature :	21°C
Test Engineer :	Julie Deng	Relative Humidity :	63%
Test Distance :	3m	Polarization :	Horizontal

Data: 102



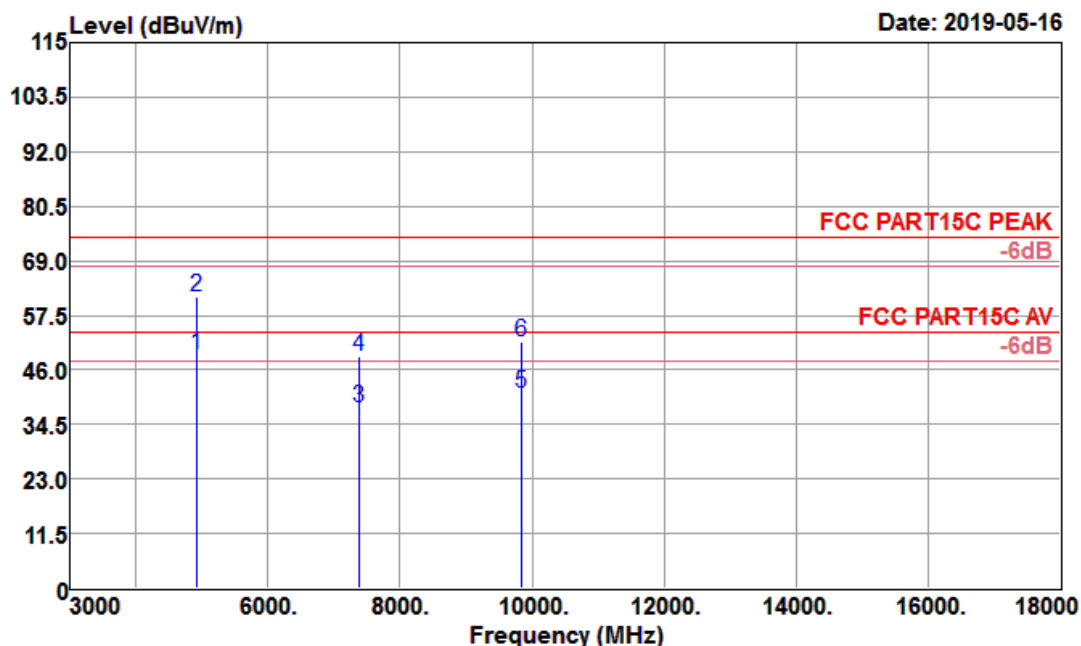
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2456.000	97.51	27.29	3.67	36.25	92.22	74.00	18.22	Peak

Data: 80



Data: 81

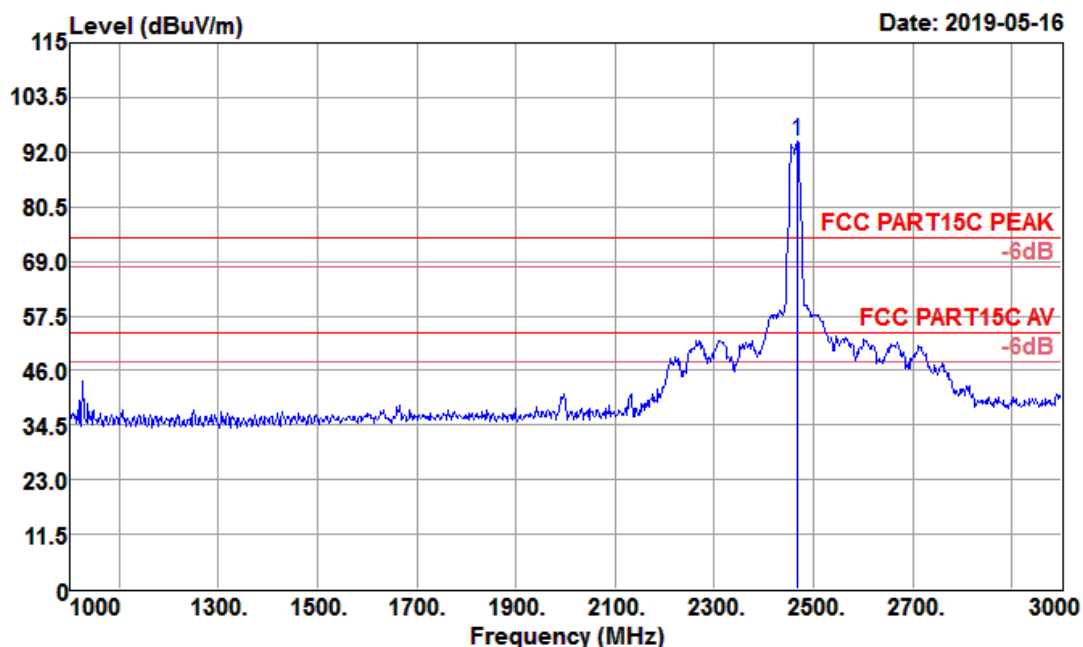
Date: 2019-05-16



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamplifier factor dB	Level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4924.000	48.39	31.52	5.38	36.23	49.06	54.00	-4.94	Average
4924.000	60.58	31.52	5.38	36.23	61.25	74.00	-12.75	Peak
7386.000	28.53	36.29	7.46	34.42	37.86	54.00	-16.14	Average
7386.000	39.37	36.29	7.46	34.42	48.70	74.00	-25.30	Peak
9848.000	29.10	38.23	8.04	34.23	41.14	54.00	-12.86	Average
9848.000	39.95	38.23	8.04	34.23	51.99	74.00	-22.01	Peak

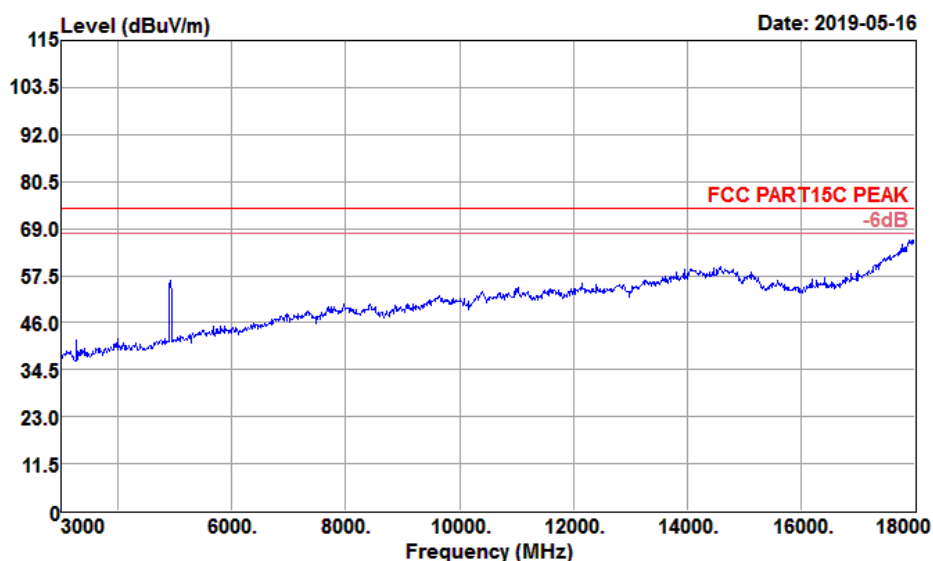
Test Mode :	802.11n20 CH11(2462MHz)	Temperature :	21°C
Test Engineer :	Julie Deng	Relative Humidity :	63%
Test Distance :	3m	Polarization :	Vertical

Data: 103



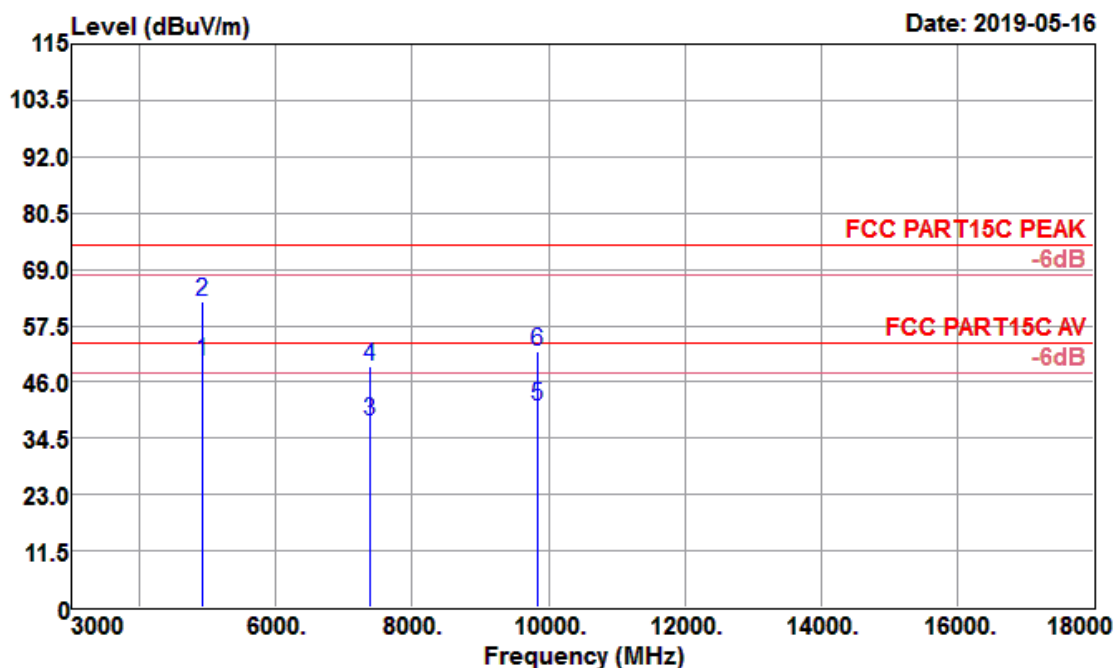
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2468.000	99.55	27.32	3.67	36.29	94.25	74.00	20.25	Peak

Data: 78



Data: 79

Date: 2019-05-16

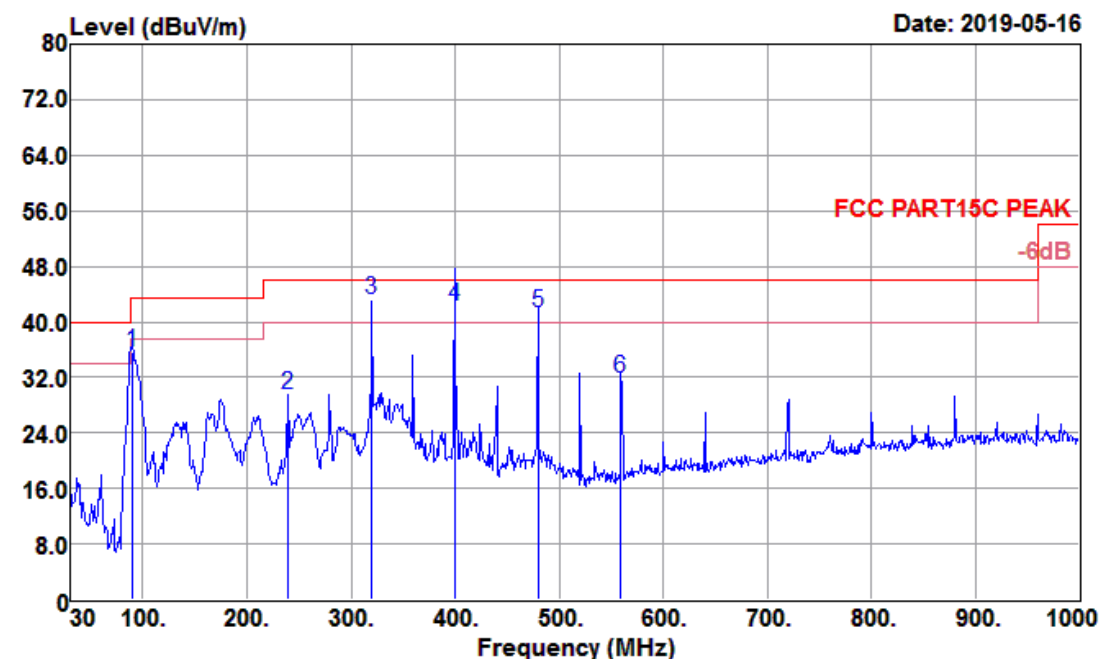


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamplifier factor dB	Level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4924.000	49.41	31.52	5.38	36.23	50.08	54.00	-3.92	Average
4924.000	61.75	31.52	5.38	36.23	62.42	74.00	-11.58	Peak
7386.000	28.63	36.29	7.46	34.42	37.96	54.00	-16.04	Average
7386.000	39.73	36.29	7.46	34.42	49.06	74.00	-24.94	Peak
9848.000	29.13	38.23	8.04	34.23	41.17	54.00	-12.83	Average
9848.000	40.37	38.23	8.04	34.23	52.41	74.00	-21.59	Peak

4.5.6 Test Result of Radiated Spurious Emission (30MHz ~ 1GHz)

Test Mode :	802.11g CH01 (2412MHz)	Temperature :	21°C
Test Engineer :	Julie Deng	Relative Humidity :	63%
Test Distance :	3m	Polarization :	Horizontal

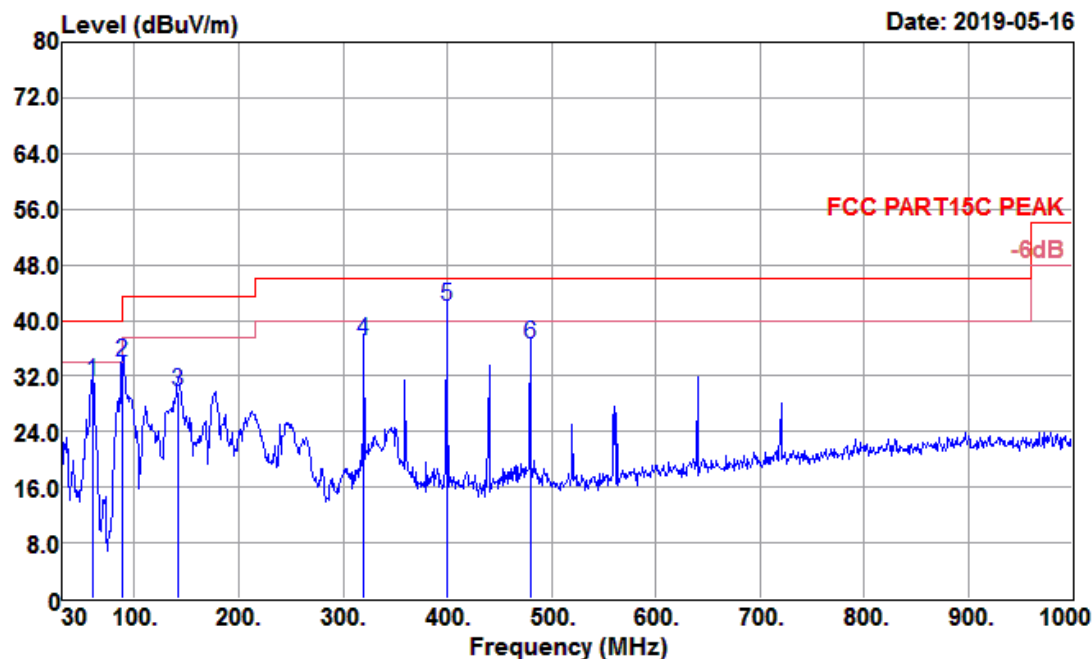
Data: 104



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
89.170	56.72	9.48	1.85	32.46	35.59	43.50	-7.91	QP
239.520	47.91	11.09	3.08	32.54	29.54	46.00	-16.46	QP
320.030	58.97	13.28	3.56	32.51	43.30	46.00	-2.70	QP
399.570	56.00	14.79	3.99	32.47	42.31	46.00	-3.69	QP
480.080	53.22	16.16	4.50	32.54	41.34	46.00	-4.66	QP
559.620	42.02	17.63	4.81	32.64	31.82	46.00	-14.18	QP

Test Mode :	802.11g CH01 (2412MHz)	Temperature :	21°C
Test Engineer :	Julie Deng	Relative Humidity :	63%
Test Distance :	3m	Polarization :	Vertical

Data: 105



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
60.070	49.51	12.69	1.47	32.55	31.12	40.00	-8.88	QP
88.200	55.07	9.46	1.83	32.47	33.89	43.50	-9.61	QP
141.550	46.23	13.61	2.34	32.50	29.68	43.50	-13.82	QP
320.030	52.76	13.28	3.56	32.51	37.09	46.00	-8.91	QP
399.570	55.61	14.79	3.99	32.47	41.92	46.00	-4.08	QP
480.080	48.38	16.16	4.50	32.54	36.50	46.00	-9.50	QP

4.6 AC Conducted Emission Measurement

4.6.1 Limit of AC Conducted Emission

FCC §15.207

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

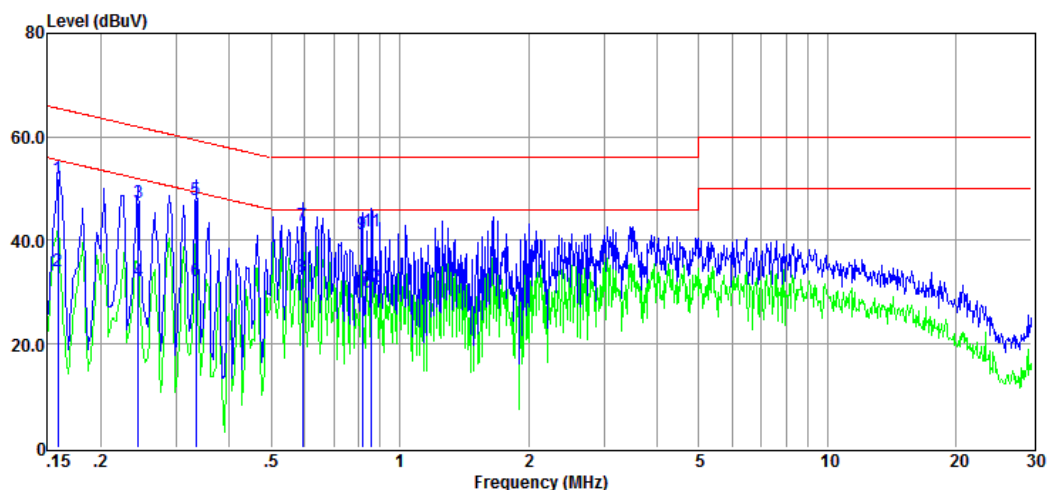
*Decreases with the logarithm of the frequency.

4.6.2 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

4.6.3 Test Result of AC Conducted Emission

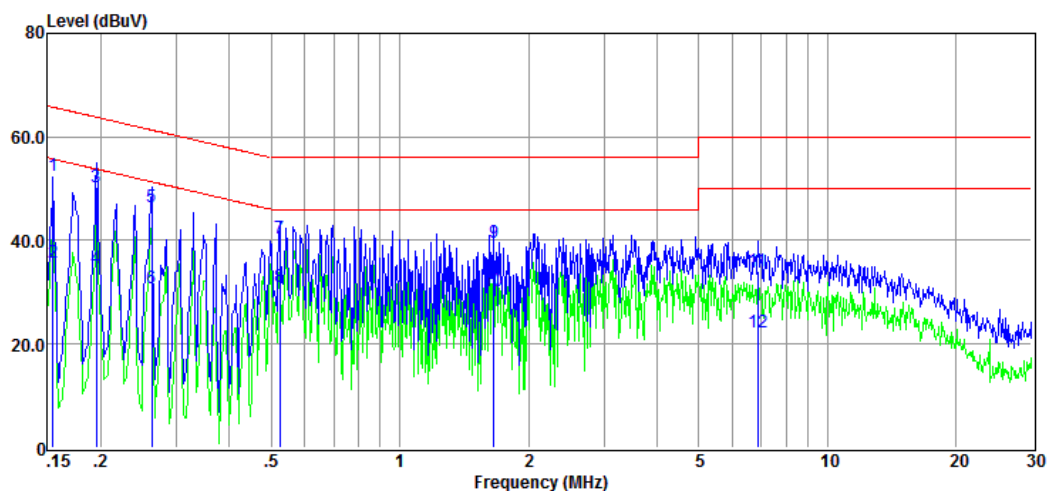
Test Mode :	Mode 1	Temperature :	20℃
Test Engineer :	Jerry.Wang	Relative Humidity :	64%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	Power Supply + WLAN Link + Lamp		



Item (Mark)	Freq (MHz)	Read Level (dBμV)	LISN Factor (dB)	Cable Loss dB	Result Level (dBμV)	Limit Line (dBμV)	Over Limit (dB)	Detector	Phase
1	0.16	42.30	9.63	0.04	51.97	65.52	-13.55	QP	LINE
2	0.16	24.40	9.63	0.04	34.07	55.52	-21.45	Average	LINE
3	0.24	37.70	9.65	0.04	47.39	61.95	-14.56	QP	LINE
4	0.24	22.50	9.65	0.04	32.19	51.95	-19.76	Average	LINE
5	0.33	38.20	9.68	0.04	47.92	59.35	-11.43	QP	LINE
6	0.33	22.50	9.68	0.04	32.22	49.35	-17.13	Average	LINE
7	0.59	33.10	9.74	0.04	42.88	56.00	-13.12	QP	LINE
8	0.59	23.30	9.74	0.04	33.08	46.00	-12.92	Average	LINE
9	0.82	31.41	9.78	0.04	41.23	56.00	-14.77	QP	LINE
10	0.82	20.21	9.78	0.04	30.03	46.00	-15.97	Average	LINE
11	0.86	31.99	9.79	0.05	41.83	56.00	-14.17	QP	LINE
12	0.86	21.19	9.79	0.05	31.03	46.00	-14.97	Average	LINE

Result Level= Reading Level + LISN Factor + Cable Loss

Test Mode :	Mode 1	Temperature :	20℃
Test Engineer :	Jerry.Wang	Relative Humidity :	64%
Test Voltage :	120Vac / 60Hz	Phase :	NEUTRAL
Function Type :	Power Supply + WLAN Link + Lamp		



Item (Mark)	Freq (MHz)	Read Level (dBμV)	LISN Factor (dB)	Cable Loss dB	Result Level (dBμV)	Limit Line (dBμV)	Over Limit (dB)	Detector	Phase
1	0.15	42.80	9.59	0.04	52.43	65.74	-13.31	QP	NEUTRAL
2	0.15	26.10	9.59	0.04	35.73	55.74	-20.01	Average	NEUTRAL
3	0.20	40.70	9.61	0.04	50.35	63.80	-13.45	QP	NEUTRAL
4	0.20	25.10	9.61	0.04	34.75	53.80	-19.05	Average	NEUTRAL
5	0.26	36.70	9.62	0.04	46.36	61.34	-14.98	QP	NEUTRAL
6	0.26	21.10	9.62	0.04	30.76	51.34	-20.58	Average	NEUTRAL
7	0.52	30.70	9.64	0.04	40.38	56.00	-15.62	QP	NEUTRAL
8	0.52	21.30	9.64	0.04	30.98	46.00	-15.02	Average	NEUTRAL
9	1.66	29.90	9.73	0.06	39.69	56.00	-16.31	QP	NEUTRAL
10	1.66	20.50	9.73	0.06	30.29	46.00	-15.71	Average	NEUTRAL
11	6.88	24.10	9.80	0.09	33.99	60.00	-26.01	QP	NEUTRAL
12	6.88	12.30	9.80	0.09	22.19	50.00	-27.81	Average	NEUTRAL

Result Level= Reading Level + LISN Factor + Cable Loss

4.7 Antenna Requirements

4.7.1 Standard Applicable

According to antenna requirement of §15.203.

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 re-placed 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 Sections 15.211, 15.213, 15.217, 15.219, or 15.221. 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 Section 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..

And according to §15.247(4)(1), system operating in the 2400-2483.5MHz bands that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

4.7.2 Antenna Connected Construction

An embedded-in antenna design is used.

4.7.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Due Date	Remark
Spectrum Analyzer	Keysight	N9010A	MY56070788	2019-01-23	2020-01-22	Conducted
Power Sensor	Keysight	U2021XA	MY56510025	2019-01-23	2020-01-22	Conducted
Power Sensor	Keysight	U2021XA	MY57030005	2019-01-23	2020-01-22	Conducted
Power Sensor	Keysight	U2021XA	MY56510018	2019-01-23	2020-01-22	Conducted
Power Sensor	Keysight	U2021XA	MY56480002	2019-01-23	2020-01-22	Conducted
Thermal Chamber	Sanmtest	SMC-408-CD	2435	2018-07-05	2019-07-04	Conducted
Base Station	R&S	CMW 270	101231	2019-01-23	2020-01-22	Conducted
Signal Generator (Interferer)	Keysight	N5182B	MY56200384	2018-04-10	2019-04-09	Conducted
Signal Generator (Blocker)	Keysight	N5171B	MY56200661	2019-01-23	2020-01-22	Conducted

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV 40	101433	2019-02-18	2020-02-17	Radiation
Amplifier	Sonoma	310	363917	2019-01-22	2020-01-21	Radiation
Amplifier	Schwarzbeck	BBV 9718	327	2019-01-22	2020-01-21	Radiation
Amplifier	Narda	TTA1840-35-HG	2034380	2018-07-18	2019-07-17	Radiation
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-051	2017/3/3	2020/3/2	Radiation
Broadband Antenna	Schwarzbeck	VULB 9168	9168-757	2017-03-03	2020-03-02	Radiation
Horn Antenna	Schwarzbeck	BBHA 9120 D	1677	2017-03-03	2020-03-02	Radiation
Horn Antenna	COM-POWER	AH-1840	101117	2018-06-20	2021-06-19	Radiation
Test Software	Auidx	E3	6.111221a	N/A	N/A	Radiation
Filter	Micro-Tronics	BRM 50702	G266	N/A	N/A	Radiation

N/A: No Calibration Required

6 Uncertainty of Evaluation

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz~30MHz	2.67dB
Radiated emissions	30MHz ~ 1GMHz	5.05dB
	1GHz ~ 18GHz	5.06 dB
	18GHz ~ 40GHz	3.65dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Appendix A. Setup Photographs

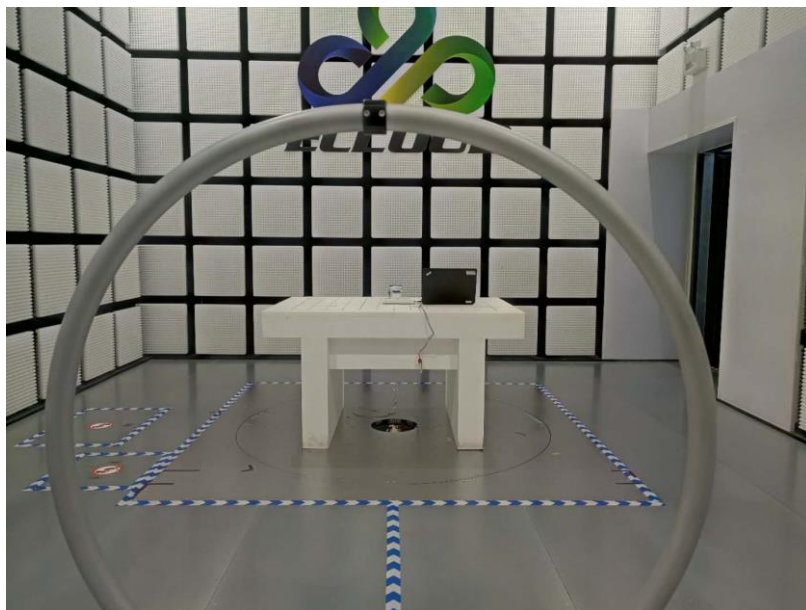


Fig.1 Radiated emission setup photo(Below 30MHz)



Fig.2 Radiated emission setup photo(Below 30MHz)



Fig.3 Radiated emission setup photo(30MHz-1GHz)



Fig.4 Radiated emission setup photo(30MHz-1GHz)

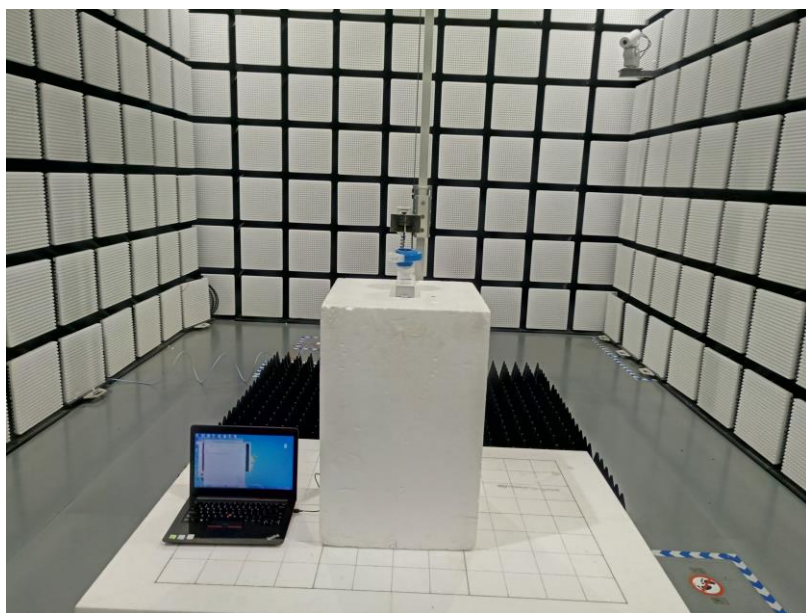


Fig.5 Radiated emission setup photo(Above 1GHz)



Fig.6 Radiated emission setup photo(Above 1GHz)



Fig.7 Power line conducted emission setup photo

-----End of the report-----