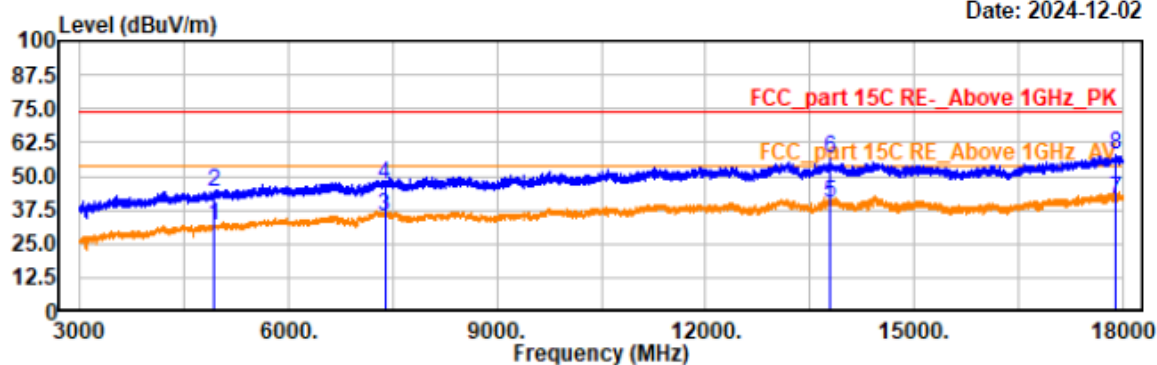


Project No.: XMDN240219-08385E-RF
Test Mode: 11b-2462
EUT Model: PG71
Test distance: 3m

Temp/Humi/ATM: 23.1°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE

Date: 2024-12-02



Trace: 1

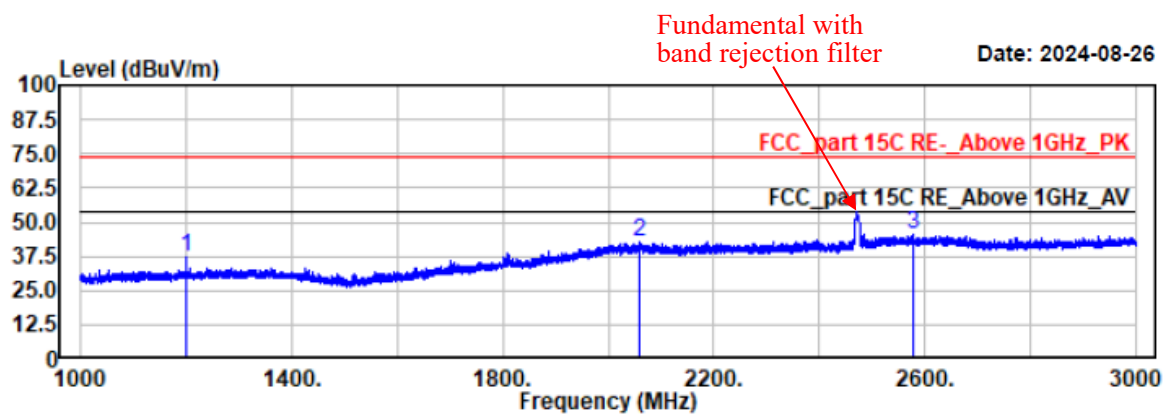
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4924.50	35.77	-4.12	31.65	54.00	22.35	horizontal	Average
4924.50	48.42	-4.12	44.30	74.00	29.70	horizontal	Peak
7386.00	37.10	-1.62	35.48	54.00	18.52	horizontal	Average
7386.00	48.71	-1.62	47.09	74.00	26.91	horizontal	Peak
13783.50	35.32	5.02	40.34	54.00	13.66	horizontal	Average
13783.50	51.38	5.02	56.40	74.00	17.60	horizontal	Peak
17889.00	34.13	7.55	41.68	54.00	12.32	horizontal	Average
17889.00	50.53	7.55	58.08	74.00	15.92	horizontal	Peak

Project No.: XMDN240219-08385E-RF
Test Mode: 11b-2462
EUT Model: PG71
Test distance: 3m

Temp/Humi/ATM: 23.5°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE

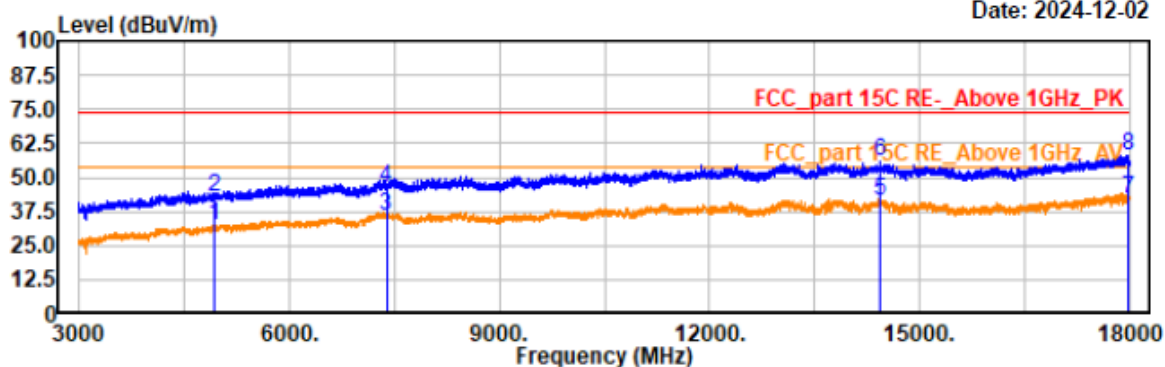


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1200.20	53.47	-16.05	37.42	74.00	36.58	vertical	Peak
2060.20	48.60	-6.13	42.47	74.00	31.53	vertical	Peak
2576.60	48.83	-3.37	45.46	74.00	28.54	vertical	Peak

Project No.: XMDN240219-08385E-RF
Test Mode: 11b-2462
EUT Model: PG71
Test distance: 3m

Temp/Humi/ATM: 23.1°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE

Date: 2024-12-02



Trace: 1

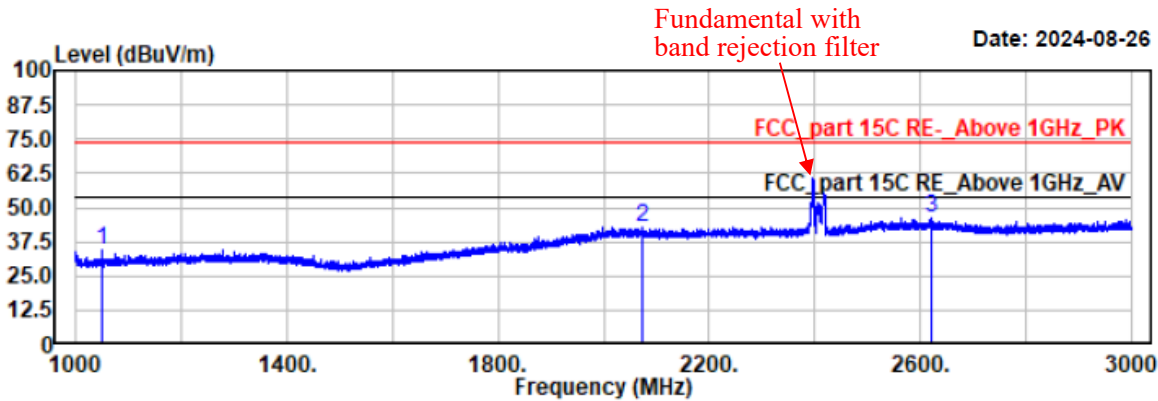
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4924.50	36.48	-4.12	32.36	54.00	21.64	Vertical	Average
4924.50	46.54	-4.12	42.42	74.00	31.58	vertical	Peak
7386.00	37.54	-1.62	35.92	54.00	18.08	Vertical	Average
7386.00	48.01	-1.62	46.39	74.00	27.61	vertical	Peak
14437.50	36.38	5.08	41.46	54.00	12.54	Vertical	Average
14437.50	50.54	5.08	55.62	74.00	18.38	vertical	Peak
17967.00	34.54	7.69	42.23	54.00	11.77	Vertical	Average
17967.00	50.26	7.69	57.95	74.00	16.05	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11g low channel

Project No.: XMDN240219-08385E-RF
Test Mode: 11g-2412
EUT Model: PG71
Test distance: 3m

Temp/Humi/ATM: 23.5°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1049.80	51.45	-17.04	34.41	74.00	39.59	horizontal	Peak
2074.00	48.98	-6.34	42.64	74.00	31.36	horizontal	Peak
2622.20	49.31	-3.33	45.98	74.00	28.02	horizontal	Peak

Project No.: XMDN240219-08385E-RF

Test Mode: 11g-2412

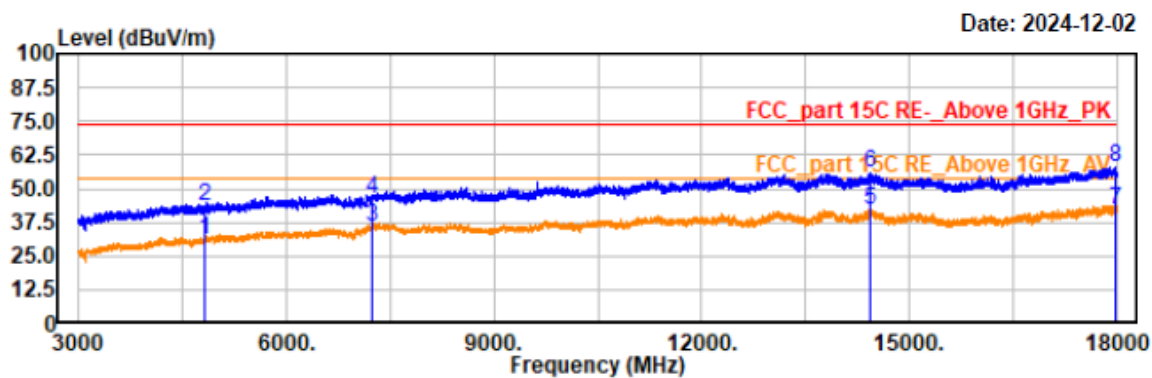
EUT Model: PG71

Test distance: 3m

Temp/Humi/ATM: 23.1°C/53%/100.1kPa

Tested by: Wlif Wu

Power Source: DC 48V from PoE



Trace: 1

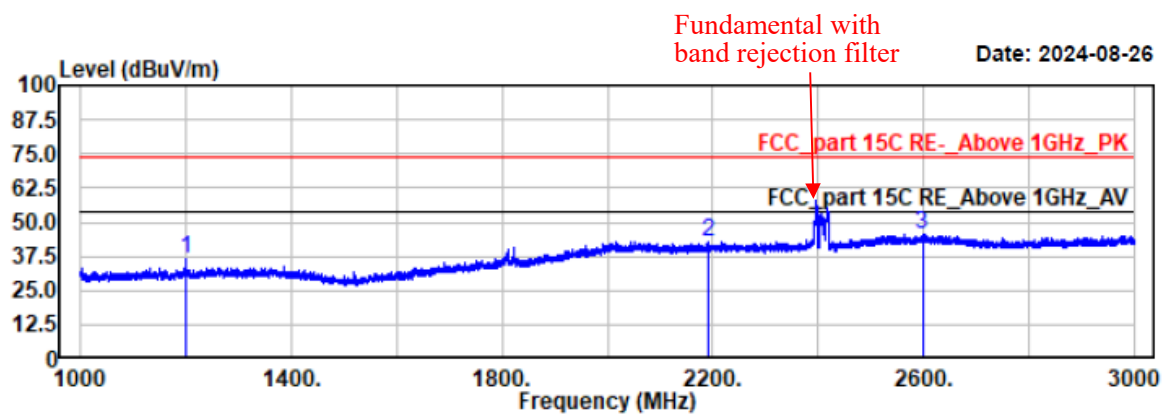
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4824.00	35.35	-4.39	30.96	54.00	23.04	horizontal	Average
4824.00	47.59	-4.39	43.20	74.00	30.80	horizontal	Peak
7236.00	37.72	-1.70	36.02	54.00	17.98	horizontal	Average
7236.00	47.82	-1.70	46.12	74.00	27.88	horizontal	Peak
14431.50	37.08	5.09	42.17	54.00	11.83	horizontal	Average
14431.50	51.06	5.09	56.15	74.00	17.85	horizontal	Peak
17974.50	34.14	7.70	41.84	54.00	12.16	horizontal	Average
17974.50	50.55	7.70	58.25	74.00	15.75	horizontal	Peak

Project No.: XMDN240219-08385E-RF
Test Mode: 11g-2412
EUT Model: PG71
Test distance: 3m

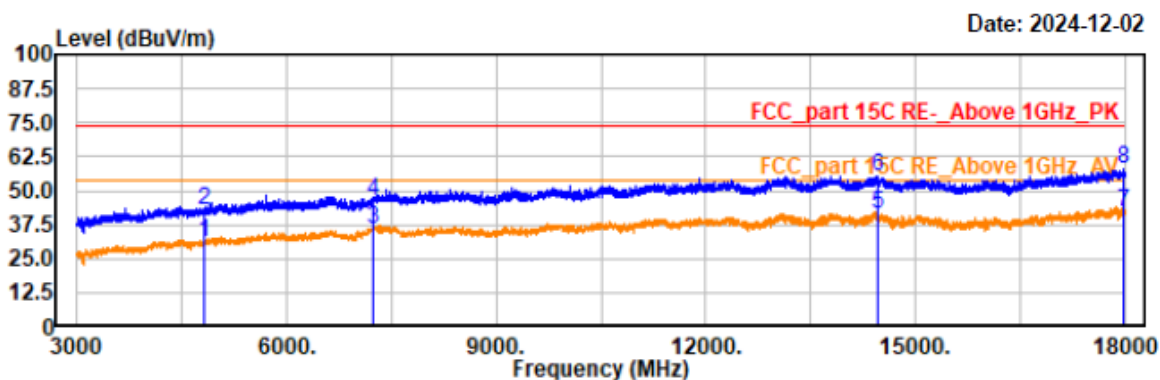
Temp/Humi/ATM: 23.5°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1199.80	52.70	-16.05	36.65	74.00	37.35	vertical	Peak
2190.80	49.37	-6.34	43.03	74.00	30.97	vertical	Peak
2598.00	48.80	-3.31	45.49	74.00	28.51	vertical	Peak

Project No.: XMDN240219-08385E-RF
Test Mode: 11g-2412
EUT Model: PG71
Test distance: 3m

Temp/Humi/ATM: 23.1°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE



Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4824.00	35.44	-4.39	31.05	54.00	22.95	vertical	Average
4824.00	46.90	-4.39	42.51	74.00	31.49	vertical	Peak
7236.00	37.84	-1.70	36.14	54.00	17.86	vertical	Average
7236.00	48.07	-1.70	46.37	74.00	27.63	vertical	Peak
14451.00	36.21	5.06	41.27	54.00	12.73	vertical	Average
14451.00	50.19	5.06	55.25	74.00	18.75	vertical	Peak
17989.50	34.43	7.72	42.15	54.00	11.85	vertical	Average
17989.50	50.12	7.72	57.84	74.00	16.16	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11g middle channel

Project No.: XMDN240219-08385E-RF

Temp/Humi/ATM: 23.5°C/53%/100.1kPa

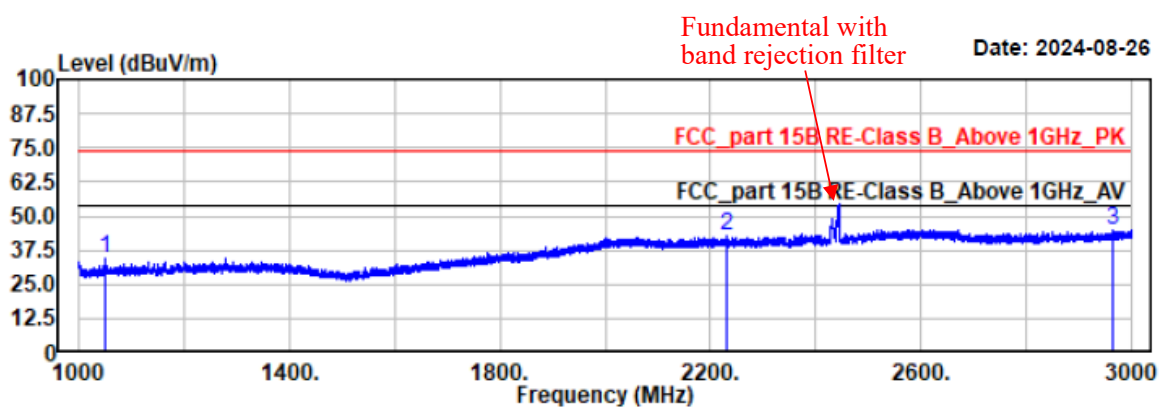
Test Mode: 11g-2437

Tested by: Wlif Wu

EUT Model: PG71

Power Source: DC 48V from PoE

Test distance: 3m

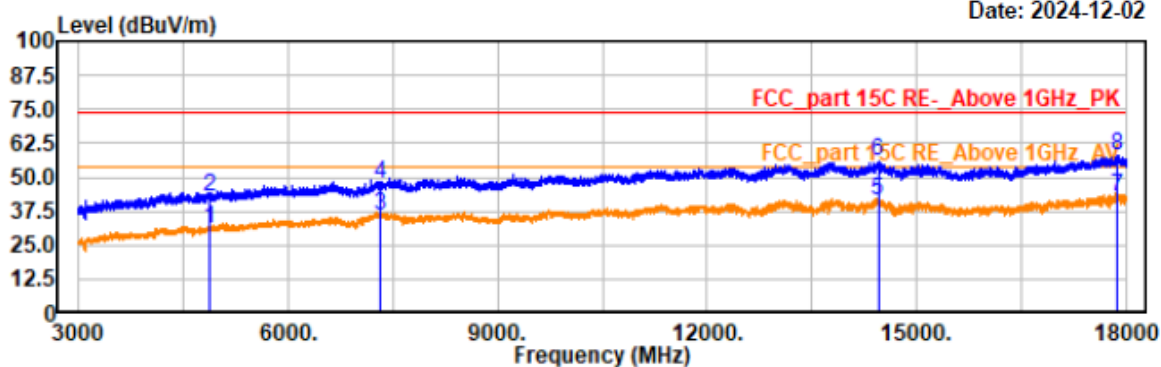


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1050.00	51.33	-17.04	34.29	74.00	39.71	horizontal	Peak
2230.60	49.32	-6.25	43.07	74.00	30.93	horizontal	Peak
2965.80	49.16	-4.15	45.01	74.00	28.99	horizontal	Peak

Project No.: XMDN240219-08385E-RF
Test Mode: 11g-2437
EUT Model: PG71
Test distance: 3m

Temp/Humi/ATM: 23.1°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE

Date: 2024-12-02



Trace: 1

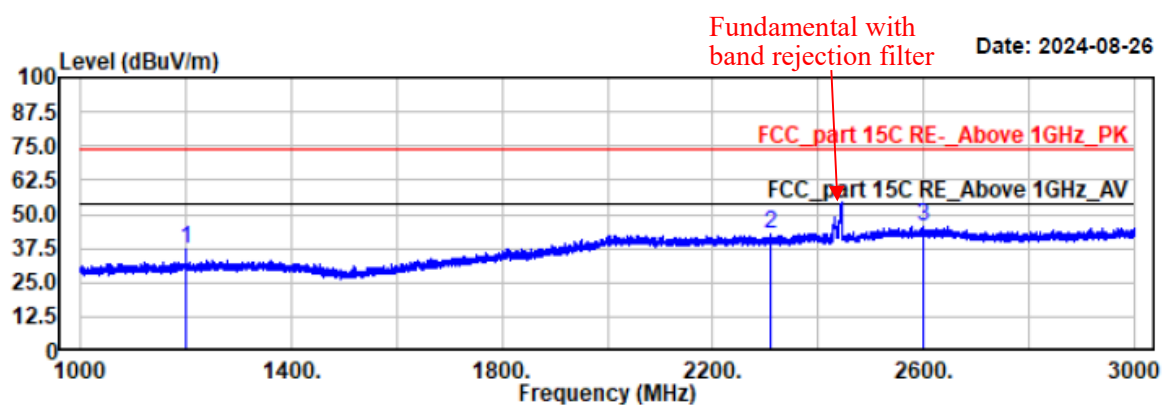
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4873.50	35.20	-4.26	30.94	54.00	23.06	horizontal	Average
4873.50	47.33	-4.26	43.07	74.00	30.93	horizontal	Peak
7311.00	37.65	-1.63	36.02	54.00	17.98	horizontal	Average
7311.00	48.88	-1.63	47.25	74.00	26.75	horizontal	Peak
14448.00	36.61	5.06	41.67	54.00	12.33	horizontal	Average
14448.00	50.59	5.06	55.65	74.00	18.35	horizontal	Peak
17866.50	35.60	7.47	43.07	54.00	10.93	horizontal	Average
17866.50	50.19	7.47	57.66	74.00	16.34	horizontal	Peak

Project No.: XMDN240219-08385E-RF
Test Mode: 11g-2437
EUT Model: PG71
Test distance: 3m

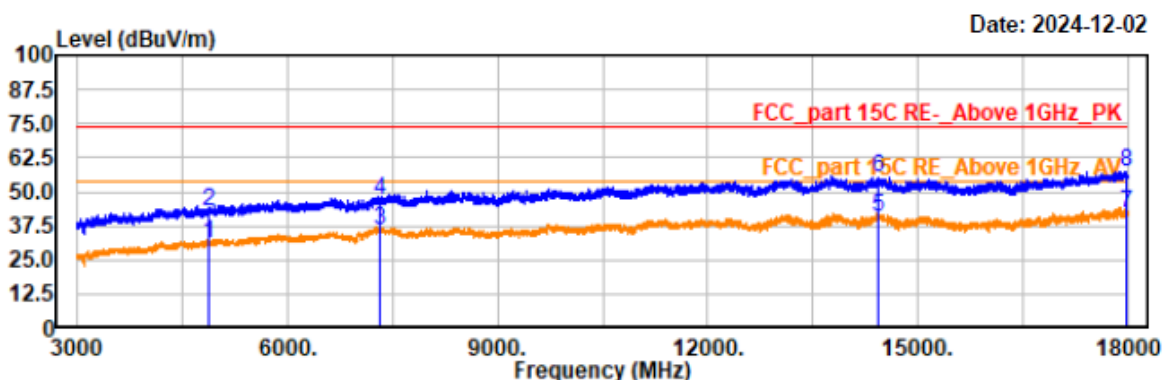
Temp/Humi/ATM: 23.5°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1200.20	53.10	-16.05	37.05	74.00	36.95	vertical	Peak
2310.80	49.15	-6.23	42.92	74.00	31.08	vertical	Peak
2599.80	49.14	-3.30	45.84	74.00	28.16	vertical	Peak

Project No.: XMDN240219-08385E-RF
Test Mode: 11g-2437
EUT Model: PG71
Test distance: 3m

Temp/Humi/ATM: 23.1°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE



Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4873.50	35.33	-4.26	31.07	54.00	22.93	vertical	Average
4873.50	46.90	-4.26	42.64	74.00	31.36	vertical	Peak
7311.00	37.57	-1.63	35.94	54.00	18.06	vertical	Average
7311.00	48.74	-1.63	47.11	74.00	26.89	vertical	Peak
14442.00	35.72	5.08	40.80	54.00	13.20	vertical	Average
14442.00	50.25	5.08	55.33	74.00	18.67	vertical	Peak
17991.00	34.41	7.72	42.13	54.00	11.87	vertical	Average
17991.00	49.61	7.72	57.33	74.00	16.67	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11g high channel

Project No.: XMDN240219-08385E-RF

Temp/Humi/ATM: 23.5°C/53%/100.1kPa

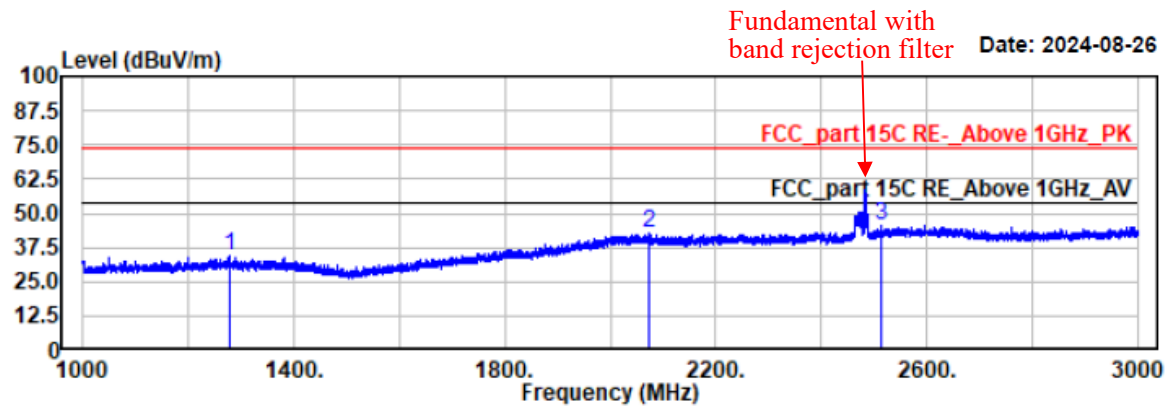
Test Mode: 11g-2462

Tested by: Wlif Wu

EUT Model: PG71

Power Source: DC 48V from PoE

Test distance: 3m



Project No.: XMDN240219-08385E-RF

Test Mode: 11g-2462

EUT Model: PG71

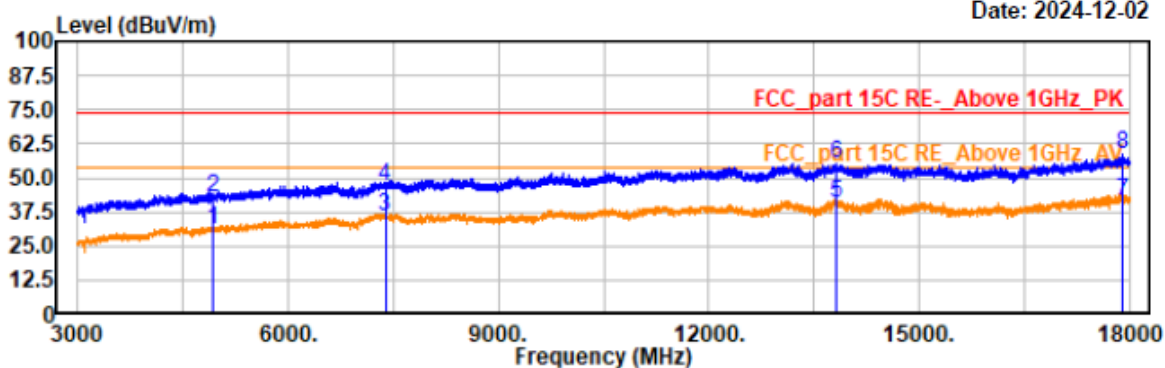
Test distance: 3m

Temp/Humi/ATM: 23.1°C/53%/100.1kPa

Tested by: Wlif Wu

Power Source: DC 48V from PoE

Date: 2024-12-02



Trace: 1

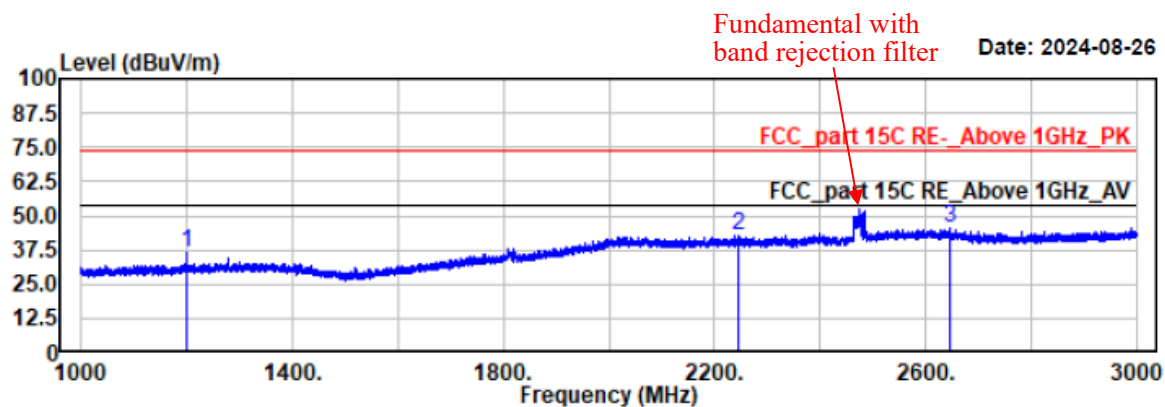
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4924.50	35.15	-4.12	31.03	54.00	22.97	horizontal	Average
4924.50	47.09	-4.12	42.97	74.00	31.03	horizontal	Peak
7386.00	37.71	-1.62	36.09	54.00	17.91	horizontal	Average
7386.00	48.81	-1.62	47.19	74.00	26.81	horizontal	Peak
13810.50	35.51	5.04	40.55	54.00	13.45	horizontal	Average
13810.50	50.37	5.04	55.41	74.00	18.59	horizontal	Peak
17899.50	33.69	7.59	41.28	54.00	12.72	horizontal	Average
17899.50	50.94	7.59	58.53	74.00	15.47	horizontal	Peak

Project No.: XMDN240219-08385E-RF
Test Mode: 11g-2462
EUT Model: PG71
Test distance: 3m

Temp/Humi/ATM: 23.5°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE

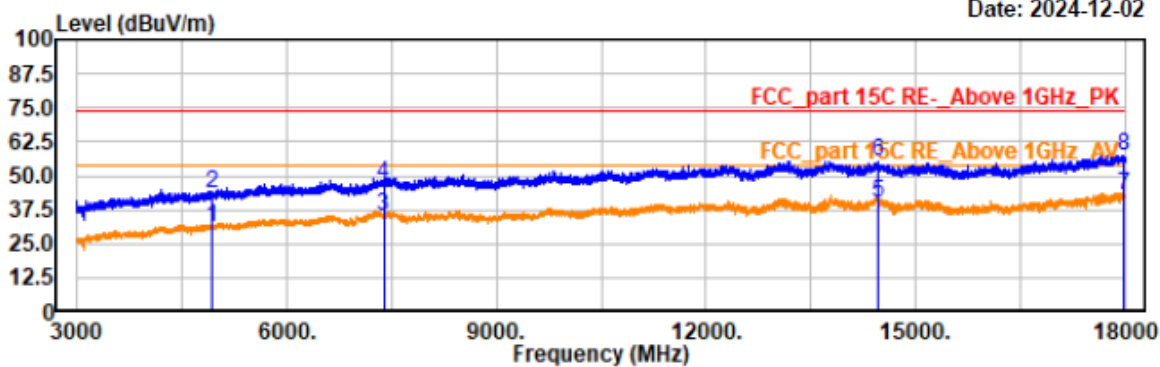


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1200.00	52.83	-16.05	36.78	74.00	37.22	vertical	Peak
2245.20	48.87	-6.24	42.63	74.00	31.37	vertical	Peak
2646.40	48.68	-3.36	45.32	74.00	28.68	vertical	Peak

Project No.: XMDN240219-08385E-RF
Test Mode: 11g-2462
EUT Model: PG71
Test distance: 3m

Temp/Humi/ATM: 23.1°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE

Date: 2024-12-02



Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4924.50	35.15	-4.12	31.03	54.00	22.97	vertical	Average
4924.50	47.34	-4.12	43.22	74.00	30.78	vertical	Peak
7386.00	37.14	-1.62	35.52	54.00	18.48	vertical	Average
7386.00	48.51	-1.62	46.89	74.00	27.11	vertical	Peak
14452.50	35.14	5.06	40.20	54.00	13.80	vertical	Average
14452.50	50.02	5.06	55.08	74.00	18.92	vertical	Peak
17983.50	34.73	7.72	42.45	54.00	11.55	vertical	Average
17983.50	49.51	7.72	57.23	74.00	16.77	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11n HT20 low channel

Project No.: XMDN240219-08385E-RF

Temp/Humi/ATM: 23.5°C/53%/100.1kPa

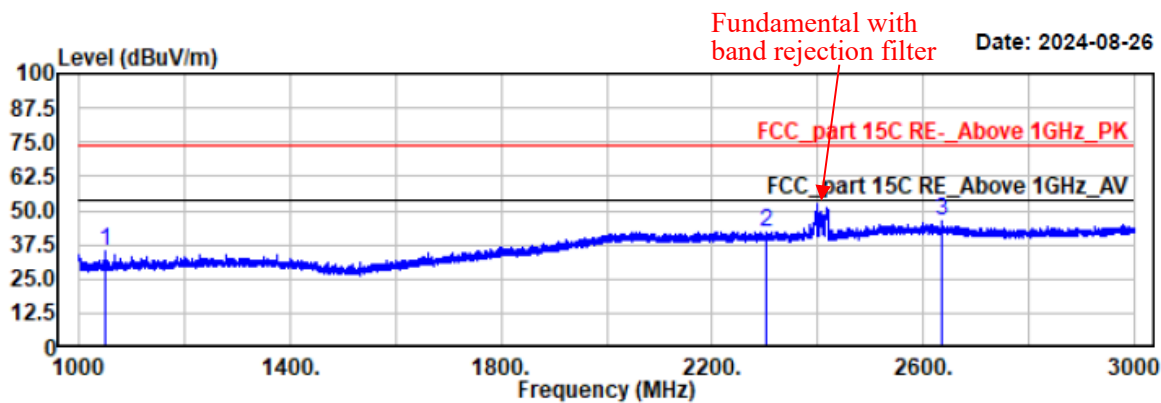
Test Mode: 11n20-2412

Tested by: Wlif Wu

EUT Model: PG71

Power Source: DC 48V from PoE

Test distance: 3m



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1050.40	52.18	-17.04	35.14	74.00	38.86	horizontal	Peak
2301.60	48.45	-6.31	42.14	74.00	31.86	horizontal	Peak
2635.40	49.53	-3.35	46.18	74.00	27.82	horizontal	Peak

Project No.: XMDN240219-08385E-RF

Test Mode: 11n20-2412

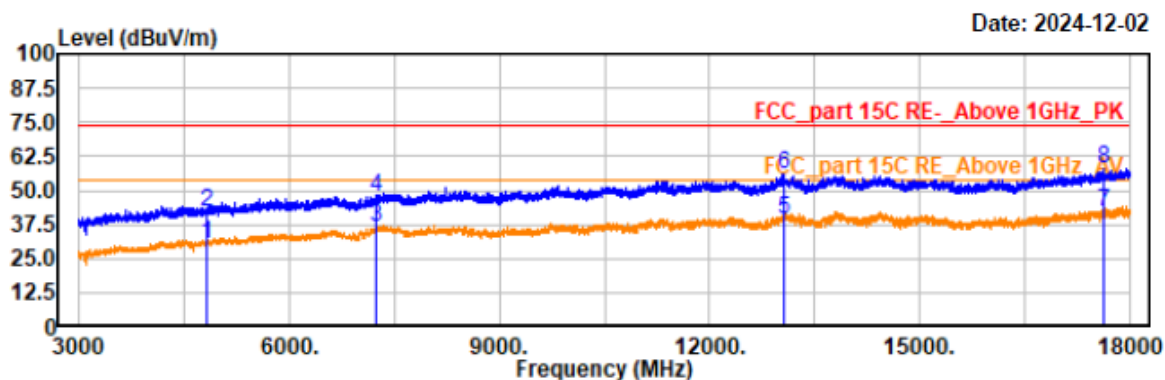
EUT Model: PG71

Test distance: 3m

Temp/Humi/ATM: 23.1°C/53%/100.1kPa

Tested by: Wlif Wu

Power Source: DC 48V from PoE



Trace: 1

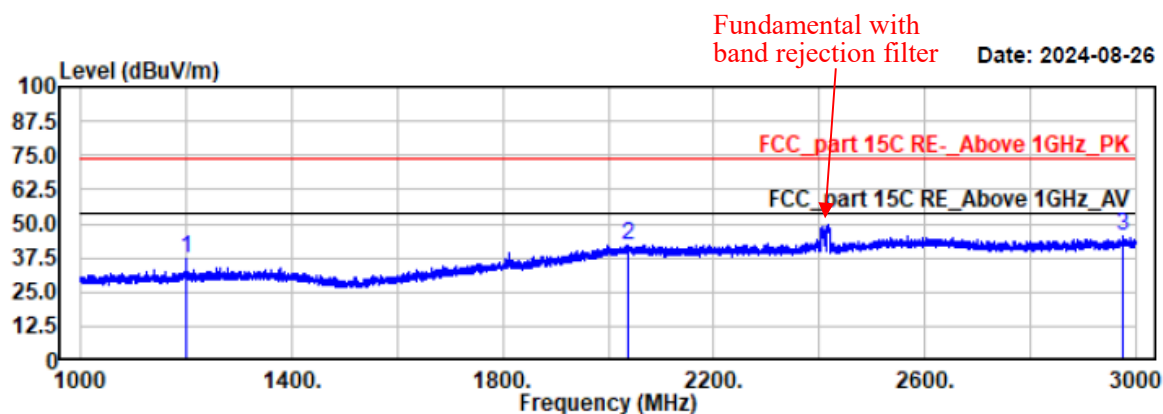
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4824.00	34.93	-4.39	30.54	54.00	23.46	horizontal	Average
4824.00	46.56	-4.39	42.17	74.00	31.83	horizontal	Peak
7236.00	37.97	-1.70	36.27	54.00	17.73	horizontal	Average
7236.00	48.94	-1.70	47.24	74.00	26.76	horizontal	Peak
13057.50	34.28	5.12	39.40	54.00	14.60	horizontal	Average
13057.50	50.77	5.12	55.89	74.00	18.11	horizontal	Peak
17640.00	35.46	6.73	42.19	54.00	11.81	horizontal	Average
17640.00	51.01	6.73	57.74	74.00	16.26	horizontal	Peak

Project No.: XMDN240219-08385E-RF
Test Mode: 11n20-2412
EUT Model: PG71
Test distance: 3m

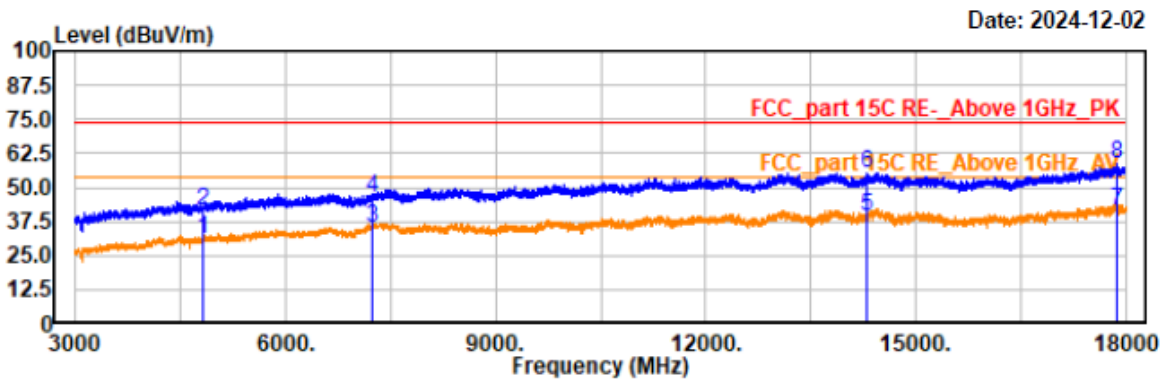
Temp/Humi/ATM: 23.5°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1200.00	53.16	-16.05	37.11	74.00	36.89	vertical	Peak
2038.00	48.39	-6.17	42.22	74.00	31.78	vertical	Peak
2977.20	49.42	-4.10	45.32	74.00	28.68	vertical	Peak

Project No.: XMDN240219-08385E-RF
Test Mode: 11n20-2412
EUT Model: PG71
Test distance: 3m

Temp/Humi/ATM: 23.1°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE



Trace: 1

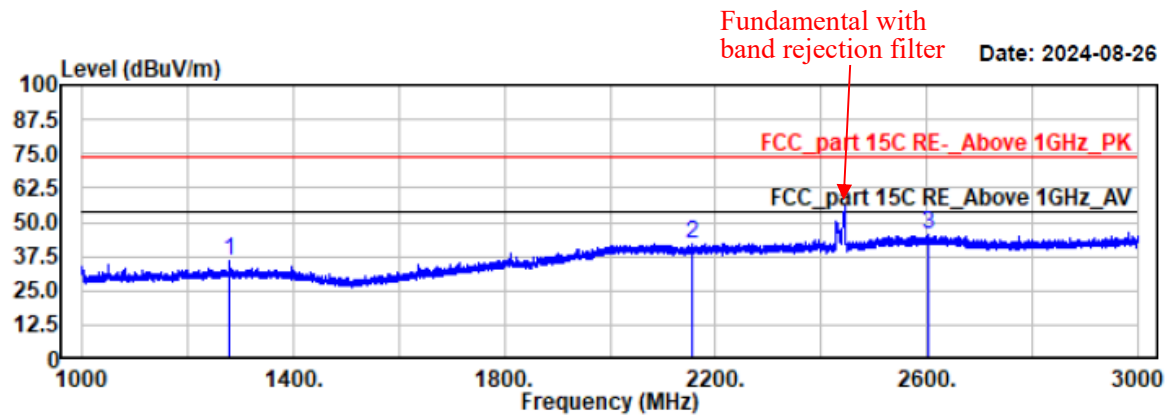
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4824.00	35.19	-4.39	30.80	54.00	23.20	vertical	Average
4824.00	45.81	-4.39	41.42	74.00	32.58	vertical	Peak
7236.00	36.84	-1.70	35.14	54.00	18.86	vertical	Average
7236.00	48.17	-1.70	46.47	74.00	27.53	vertical	Peak
14307.00	33.91	5.20	39.11	54.00	14.89	vertical	Average
14307.00	49.83	5.20	55.03	74.00	18.97	vertical	Peak
17869.50	34.07	7.49	41.56	54.00	12.44	vertical	Average
17869.50	51.07	7.49	58.56	74.00	15.44	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11n HT20 middle channel

Project No.: XMDN240219-08385E-RF
Test Mode: 11n20-2437
EUT Model: PG71
Test distance: 3m

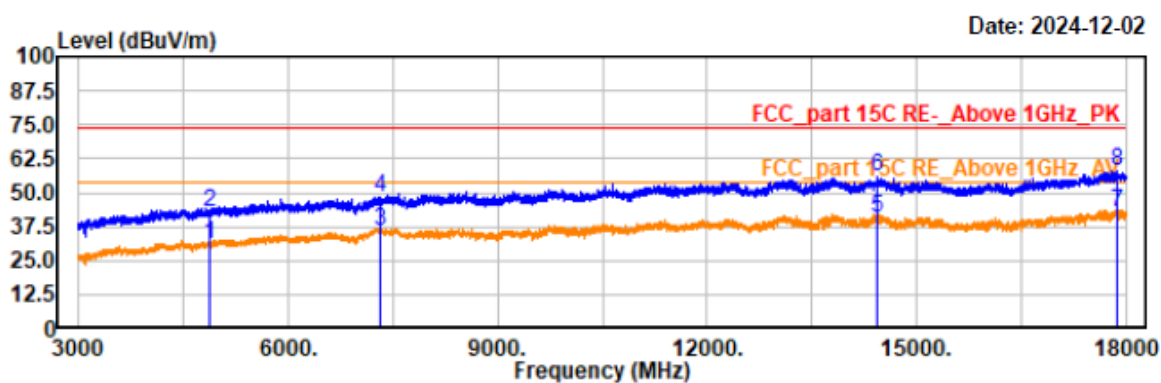
Temp/Humi/ATM: 23.5°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1280.40	51.16	-15.50	35.66	74.00	38.34	horizontal	Peak
2154.40	48.96	-6.70	42.26	74.00	31.74	horizontal	Peak
2604.80	48.53	-3.31	45.22	74.00	28.78	horizontal	Peak

Project No.: XMDN240219-08385E-RF
Test Mode: 11n20-2437
EUT Model: PG71
Test distance: 3m

Temp/Humi/ATM: 23.1°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE



Trace: 1

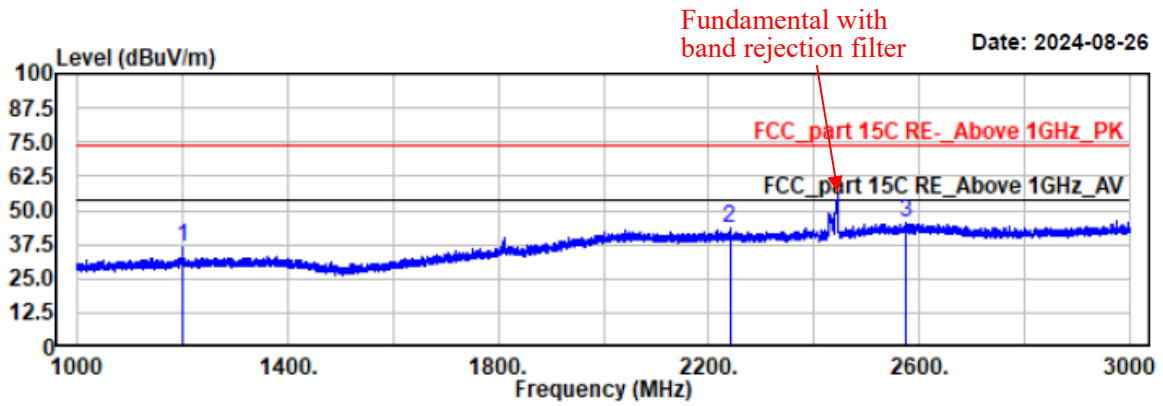
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4873.50	35.38	-4.26	31.12	54.00	22.88	horizontal	Average
4873.50	47.23	-4.26	42.97	74.00	31.03	horizontal	Peak
7311.00	37.18	-1.63	35.55	54.00	18.45	horizontal	Average
7311.00	49.83	-1.63	48.20	74.00	25.80	horizontal	Peak
14436.00	35.66	5.08	40.74	54.00	13.26	horizontal	Average
14436.00	50.65	5.08	55.73	74.00	18.27	horizontal	Peak
17863.50	35.21	7.46	42.67	54.00	11.33	horizontal	Average
17863.50	50.52	7.46	57.98	74.00	16.02	horizontal	Peak

Project No.: XMDN240219-08385E-RF
Test Mode: 11n20-2437
EUT Model: PG71
Test distance: 3m

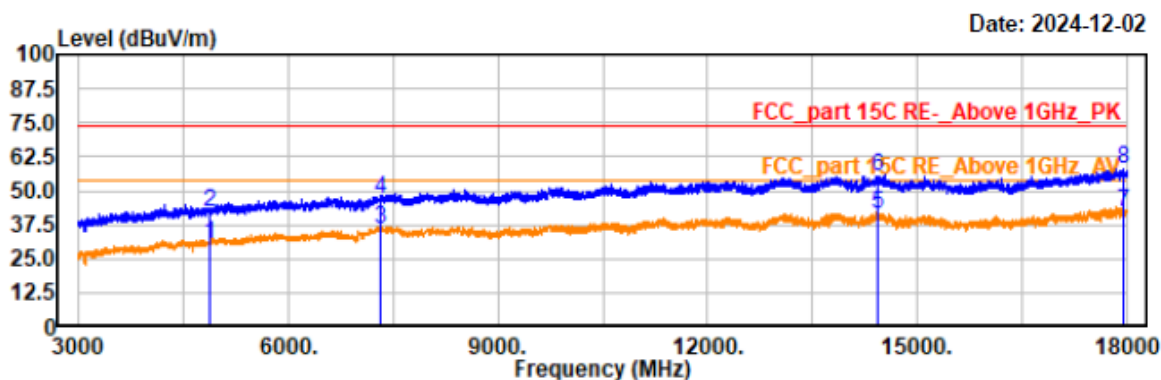
Temp/Humi/ATM: 23.5°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1199.60	52.67	-16.05	36.62	74.00	37.38	vertical	Peak
2240.00	49.37	-6.24	43.13	74.00	30.87	vertical	Peak
2575.60	48.57	-3.38	45.19	74.00	28.81	vertical	Peak

Project No.: XMDN240219-08385E-RF
Test Mode: 11n20-2437
EUT Model: PG71
Test distance: 3m

Temp/Humi/ATM: 23.1°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE



Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4873.50	34.80	-4.26	30.54	54.00	23.46	vertical	Average
4873.50	46.00	-4.26	41.74	74.00	32.26	vertical	Peak
7311.00	37.74	-1.63	36.11	54.00	17.89	vertical	Average
7311.00	48.51	-1.63	46.88	74.00	27.12	vertical	Peak
14427.00	36.60	5.10	41.70	54.00	12.30	vertical	Average
14427.00	50.23	5.10	55.33	74.00	18.67	vertical	Peak
17962.50	34.66	7.68	42.34	54.00	11.66	vertical	Average
17962.50	50.38	7.68	58.06	74.00	15.94	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11n HT20 high channel

Project No.: XMDN240219-08385E-RF

Temp/Humi/ATM: 23.5°C/53%/100.1kPa

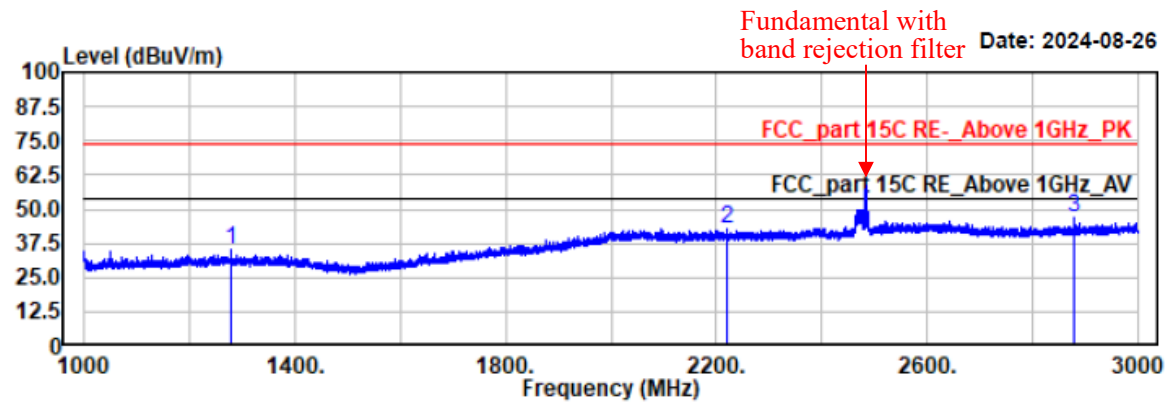
Test Mode: 11n20-2462

Tested by: Wlif Wu

EUT Model: PG71

Power Source: DC 48V from PoE

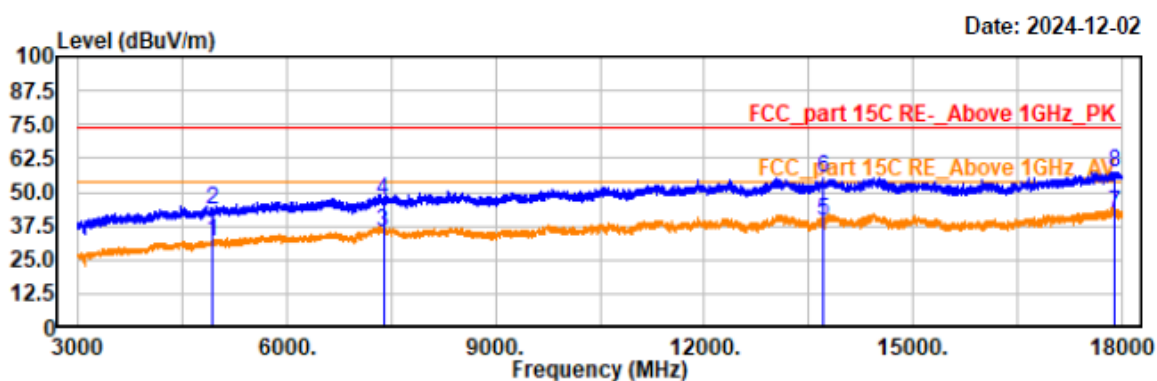
Test distance: 3m



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1280.20	50.50	-15.50	35.00	74.00	39.00	horizontal	Peak
2219.60	48.88	-6.24	42.64	74.00	31.36	horizontal	Peak
2879.60	51.33	-4.45	46.88	74.00	27.12	horizontal	Peak

Project No.: XMDN240219-08385E-RF
Test Mode: 11n20-2462
EUT Model: PG71
Test distance: 3m

Temp/Humi/ATM: 23.1°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE



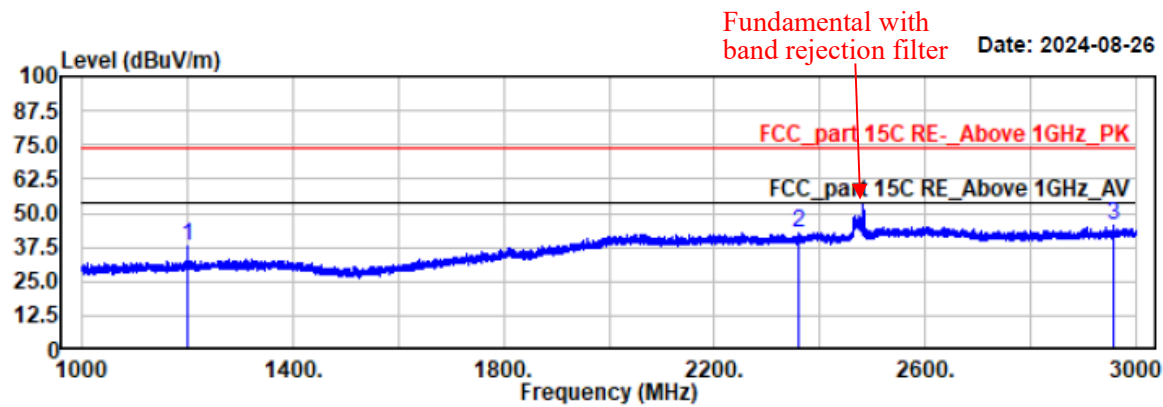
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4924.50	35.81	-4.12	31.69	54.00	22.31	horizontal	Average
4924.50	47.34	-4.12	43.22	74.00	30.78	horizontal	Peak
7386.00	36.68	-1.62	35.06	54.00	18.94	horizontal	Average
7386.00	48.72	-1.62	47.10	74.00	26.90	horizontal	Peak
13722.00	34.08	4.98	39.06	54.00	14.94	horizontal	Average
13722.00	50.07	4.98	55.05	74.00	18.95	horizontal	Peak
17902.50	34.77	7.59	42.36	54.00	11.64	horizontal	Average
17902.50	49.96	7.59	57.55	74.00	16.45	horizontal	Peak

Project No.: XMDN240219-08385E-RF
Test Mode: 11n20-2462
EUT Model: PG71
Test distance: 3m

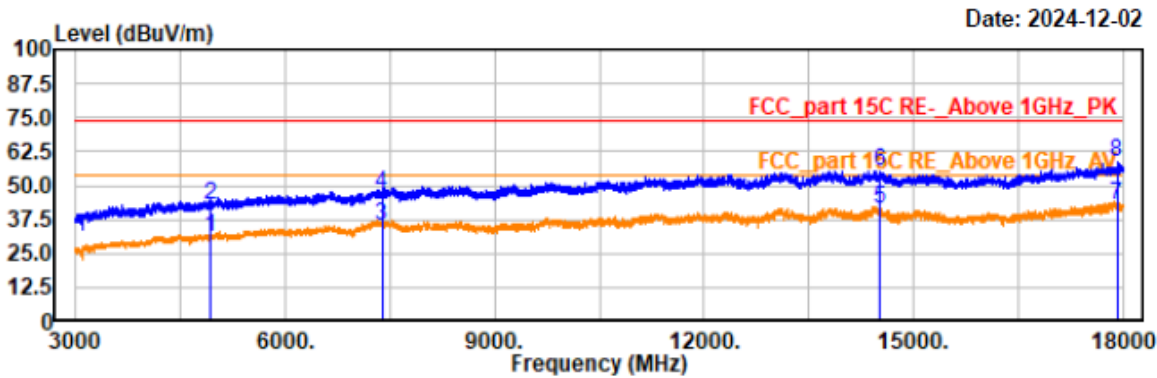
Temp/Humi/ATM: 23.5°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1200.40	53.81	-16.05	37.76	74.00	36.24	vertical	Peak
2358.80	48.36	-5.75	42.61	74.00	31.39	vertical	Peak
2958.60	49.86	-4.18	45.68	74.00	28.32	vertical	Peak

Project No.: XMDN240219-08385E-RF
Test Mode: 11n20-2462
EUT Model: PG71
Test distance: 3m

Temp/Humi/ATM: 23.1°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE



Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4924.50	35.29	-4.12	31.17	54.00	22.83	vertical	Average
4924.50	46.54	-4.12	42.42	74.00	31.58	vertical	Peak
7386.00	37.12	-1.62	35.50	54.00	18.50	vertical	Average
7386.00	48.68	-1.62	47.06	74.00	26.94	vertical	Peak
14521.50	36.12	4.96	41.08	54.00	12.92	vertical	Average
14521.50	50.46	4.96	55.42	74.00	18.58	vertical	Peak
17911.50	35.04	7.60	42.64	54.00	11.36	vertical	Average
17911.50	50.69	7.60	58.29	74.00	15.71	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11 n HT40 low channel

Project No.: XMDN240219-08385E-RF

Test Mode: 11n40-2422

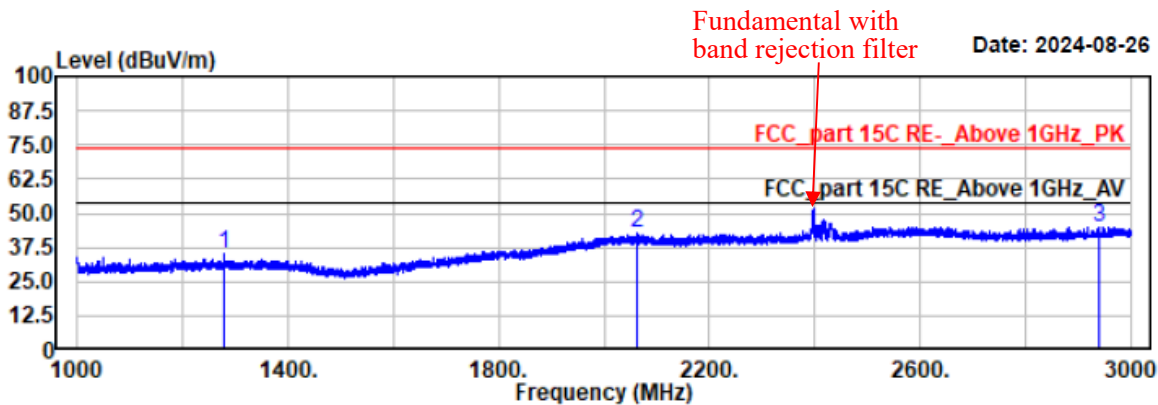
EUT Model: PG71

Test distance: 3m

Temp/Humi/ATM: 23.5°C/53%/100.1kPa

Tested by: Wlif Wu

Power Source: DC 48V from PoE



Project No.: XMDN240219-08385E-RF

Test Mode: 11n40-2422

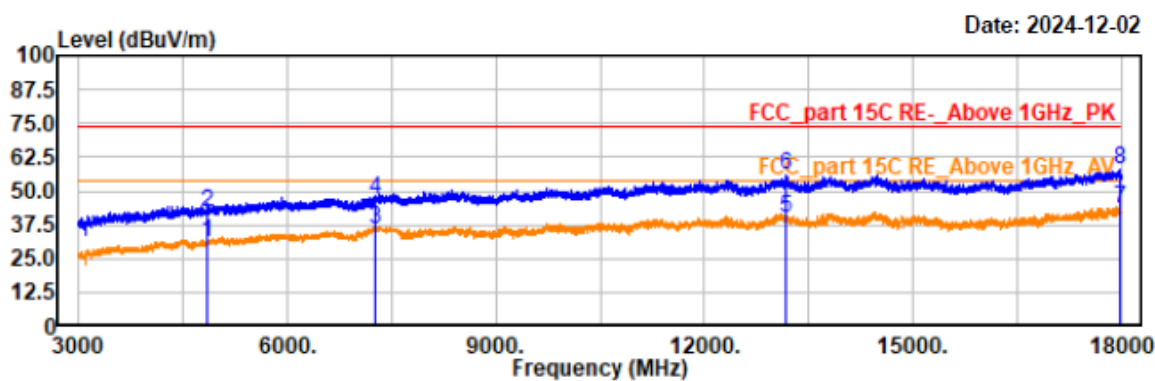
EUT Model: PG71

Test distance: 3m

Temp/Humi/ATM: 23.1°C/53%/100.1kPa

Tested by: Wlif Wu

Power Source: DC 48V from PoE



Trace: 1

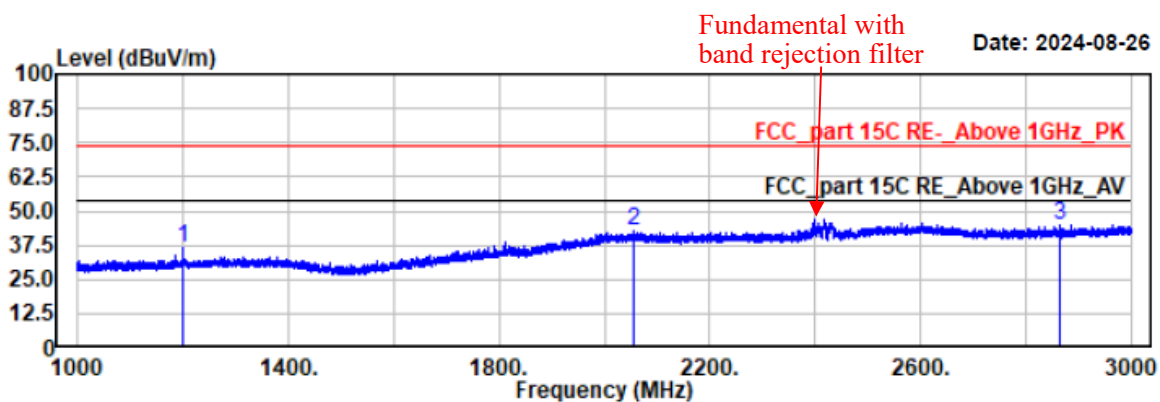
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4843.50	35.21	-4.34	30.87	54.00	23.13	horizontal	Average
4843.50	46.56	-4.34	42.22	74.00	31.78	horizontal	Peak
7266.00	37.70	-1.66	36.04	54.00	17.96	horizontal	Average
7266.00	48.72	-1.66	47.06	74.00	26.94	horizontal	Peak
13174.50	35.06	5.06	40.12	54.00	13.88	horizontal	Average
13174.50	50.90	5.06	55.96	74.00	18.04	horizontal	Peak
17967.00	35.54	7.69	43.23	54.00	10.77	horizontal	Average
17967.00	50.15	7.69	57.84	74.00	16.16	horizontal	Peak

Project No.: XMDN240219-08385E-RF
Test Mode: 11n40-2422
EUT Model: PG71
Test distance: 3m

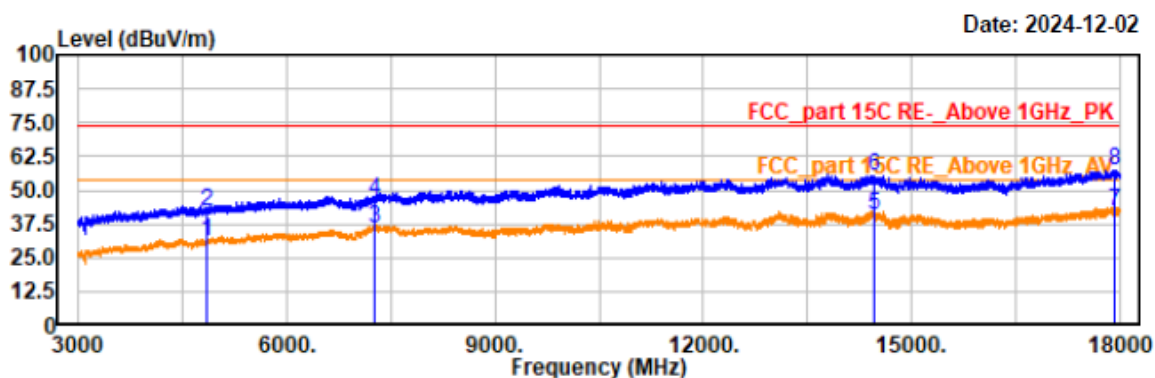
Temp/Humi/ATM: 23.5°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1199.80	52.45	-16.05	36.40	74.00	37.60	vertical	Peak
2054.00	48.51	-6.05	42.46	74.00	31.54	vertical	Peak
2863.00	49.59	-4.50	45.09	74.00	28.91	vertical	Peak

Project No.: XMDN240219-08385E-RF
Test Mode: 11n40-2422
EUT Model: PG71
Test distance: 3m

Temp/Humi/ATM: 23.1°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE



Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4843.50	35.17	-4.34	30.83	54.00	23.17	vertical	Average
4843.50	46.13	-4.34	41.79	74.00	32.21	vertical	Peak
7266.00	37.53	-1.66	35.87	54.00	18.13	vertical	Average
7266.00	48.04	-1.66	46.38	74.00	27.62	vertical	Peak
14467.50	35.82	5.03	40.85	54.00	13.15	vertical	Average
14467.50	50.24	5.03	55.27	74.00	18.73	vertical	Peak
17935.50	34.10	7.64	41.74	54.00	12.26	vertical	Average
17935.50	49.84	7.64	57.48	74.00	16.52	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11 n HT40 middle channel

Project No.: XMDN240219-08385E-RF

Temp/Humi/ATM: 23.5°C/53%/100.1kPa

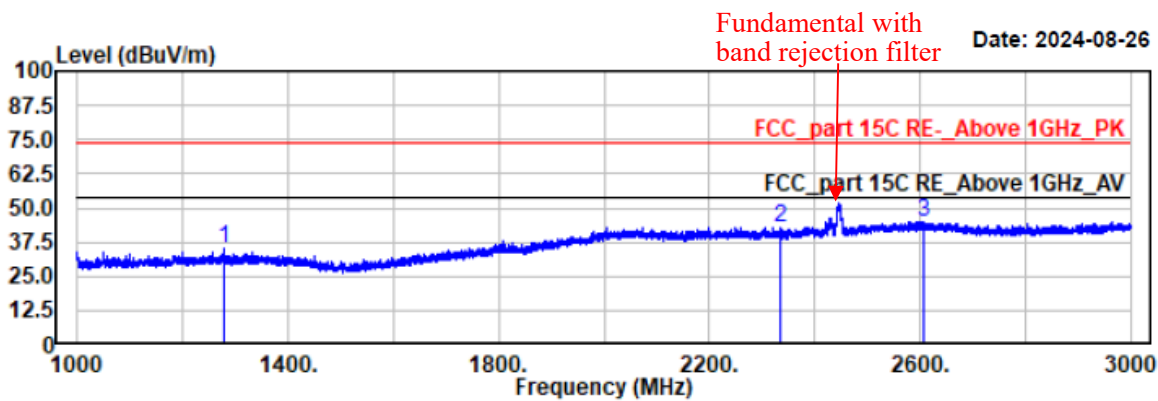
Test Mode: 11n40-2437

Tested by: Wlif Wu

EUT Model: PG71

Power Source: DC 48V from PoE

Test distance: 3m

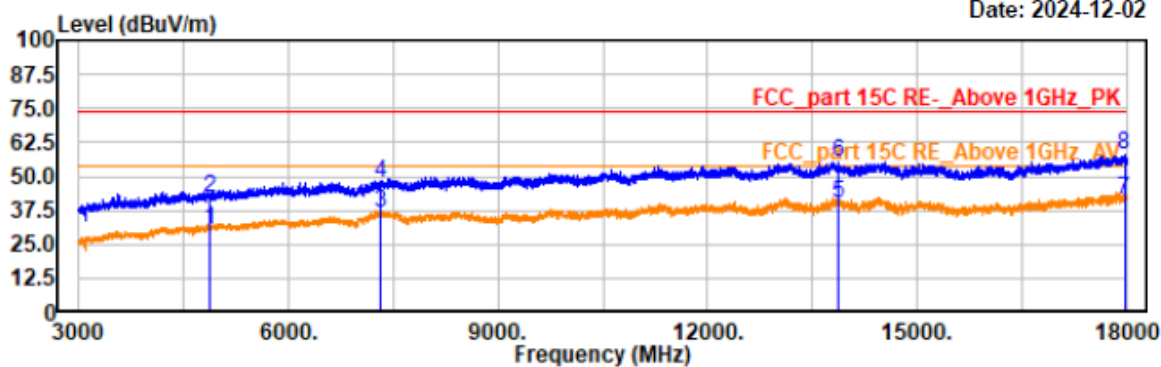


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1280.20	50.35	-15.50	34.85	74.00	39.15	horizontal	Peak
2334.20	48.99	-6.01	42.98	74.00	31.02	horizontal	Peak
2605.80	48.14	-3.30	44.84	74.00	29.16	horizontal	Peak

Project No.: XMDN240219-08385E-RF
Test Mode: 11n40-2437
EUT Model: PG71
Test distance: 3m

Temp/Humi/ATM: 23.1°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE

Date: 2024-12-02



Trace: 1

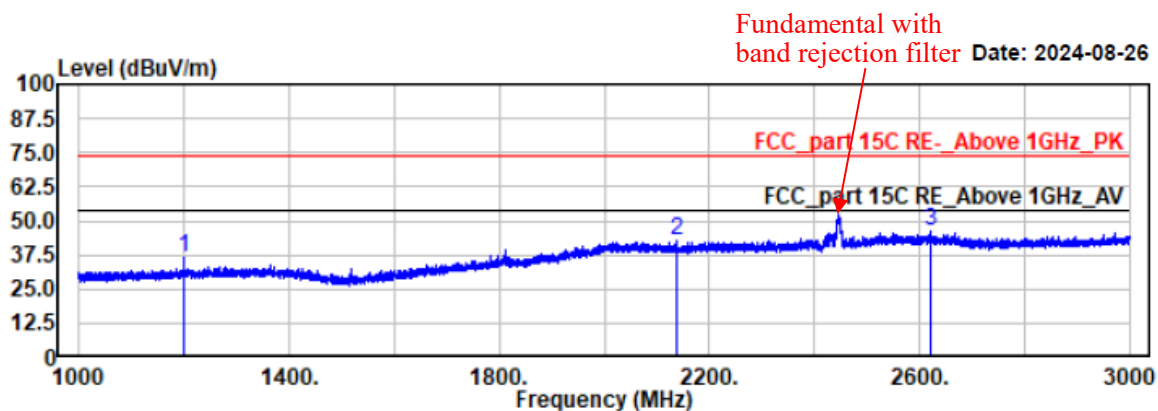
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4873.50	34.58	-4.26	30.32	54.00	23.68	horizontal	Average
4873.50	46.37	-4.26	42.11	74.00	31.89	horizontal	Peak
7311.00	38.33	-1.63	36.70	54.00	17.30	horizontal	Average
7311.00	49.11	-1.63	47.48	74.00	26.52	horizontal	Peak
13860.00	35.06	5.09	40.15	54.00	13.85	horizontal	Average
13860.00	50.29	5.09	55.38	74.00	18.62	horizontal	Peak
17965.50	33.91	7.69	41.60	54.00	12.40	horizontal	Average
17965.50	50.41	7.69	58.10	74.00	15.90	horizontal	Peak

Project No.: XMDN240219-08385E-RF
Test Mode: 11n40-2437
EUT Model: PG71
Test distance: 3m

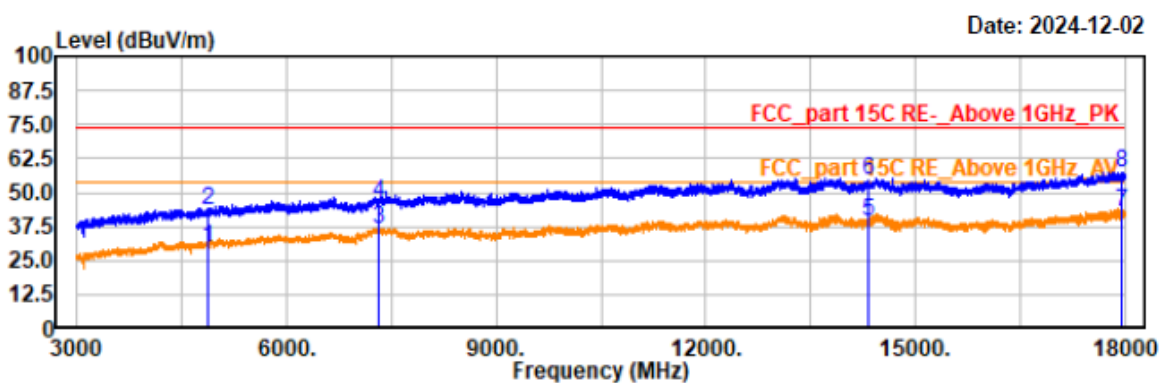
Temp/Humi/ATM: 23.5°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1199.80	52.88	-16.05	36.83	74.00	37.17	vertical	Peak
2136.20	49.77	-6.73	43.04	74.00	30.96	vertical	Peak
2620.80	49.67	-3.33	46.34	74.00	27.66	vertical	Peak

Project No.: XMDN240219-08385E-RF
Test Mode: 11n40-2437
EUT Model: PG71
Test distance: 3m

Temp/Humi/ATM: 23.1°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE



Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4873.50	34.23	-4.26	29.97	54.00	24.03	vertical	Average
4873.50	47.90	-4.26	43.64	74.00	30.36	vertical	Peak
7311.00	38.05	-1.63	36.42	54.00	17.58	vertical	Average
7311.00	47.64	-1.63	46.01	74.00	27.99	vertical	Peak
14335.50	33.99	5.18	39.17	54.00	14.83	vertical	Average
14335.50	49.60	5.18	54.78	74.00	19.22	vertical	Peak
17962.50	35.38	7.68	43.06	54.00	10.94	vertical	Average
17962.50	49.71	7.68	57.39	74.00	16.61	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11 n HT40 high channel

Project No.: XMDN240219-08385E-RF

Test Mode: 11n40-2452

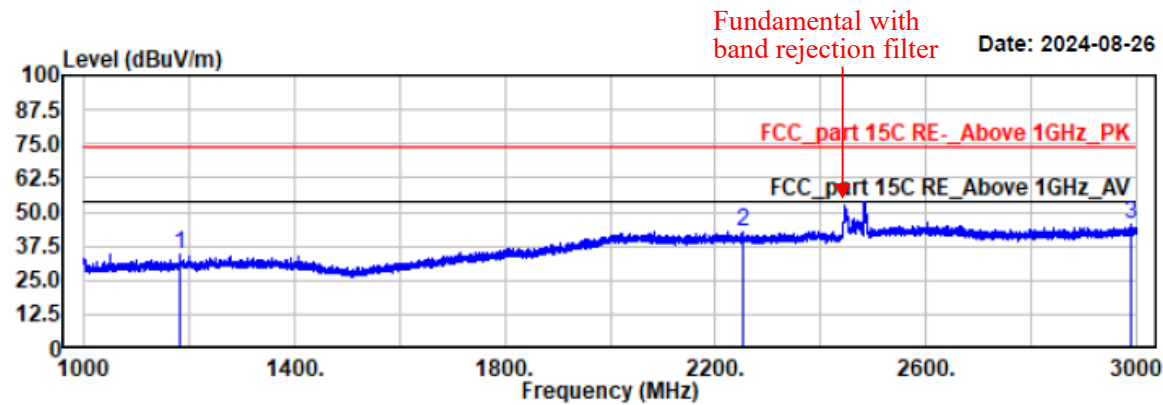
EUT Model: PG71

Test distance: 3m

Temp/Humi/ATM: 23.5°C/53%/100.1kPa

Tested by: Wlif Wu

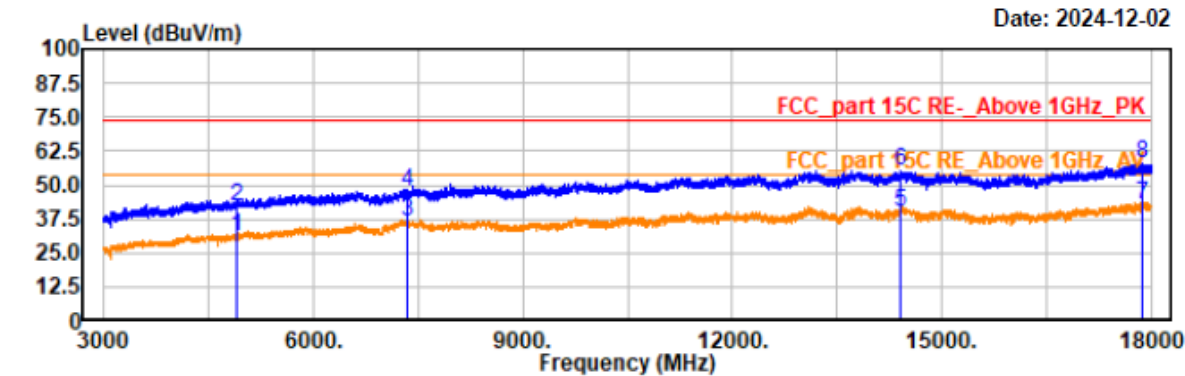
Power Source: DC 48V from PoE



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1182.60	50.50	-16.16	34.34	74.00	39.66	horizontal	Peak
2251.00	48.87	-6.25	42.62	74.00	31.38	horizontal	Peak
2990.60	49.32	-4.05	45.27	74.00	28.73	horizontal	Peak

Project No.: XMDN240219-08385E-RF
Test Mode: 11n40-2452
EUT Model: PG71
Test distance: 3m

Temp/Humi/ATM: 23.1°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE



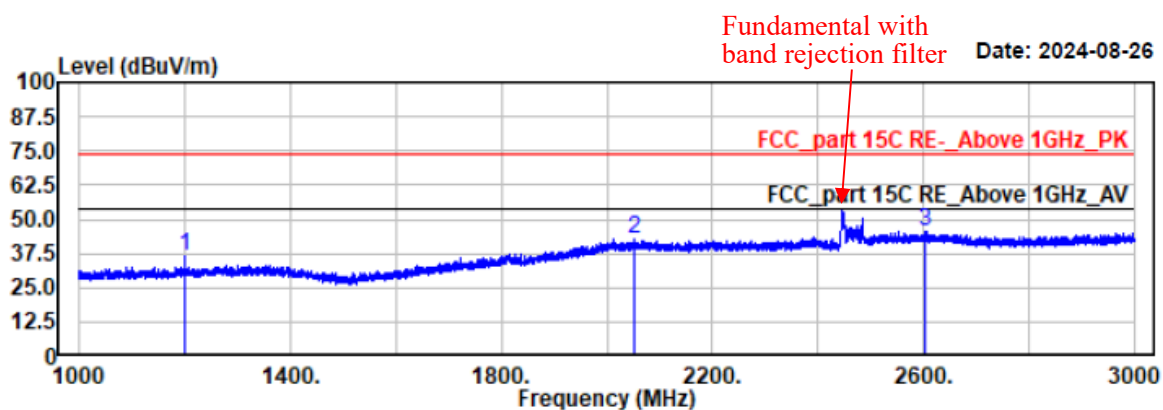
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4903.50	35.17	-4.18	30.99	54.00	23.01	horizontal	Average
4903.50	46.11	-4.18	41.93	74.00	32.07	horizontal	Peak
7356.00	38.00	-1.59	36.41	54.00	17.59	horizontal	Average
7356.00	49.37	-1.59	47.78	74.00	26.22	horizontal	Peak
14409.00	35.01	5.12	40.13	54.00	13.87	horizontal	Average
14409.00	50.21	5.12	55.33	74.00	18.67	horizontal	Peak
17862.00	35.27	7.46	42.73	54.00	11.27	horizontal	Average
17862.00	50.49	7.46	57.95	74.00	16.05	horizontal	Peak

Project No.: XMDN240219-08385E-RF
Test Mode: 11n40-2452
EUT Model: PG71
Test distance: 3m

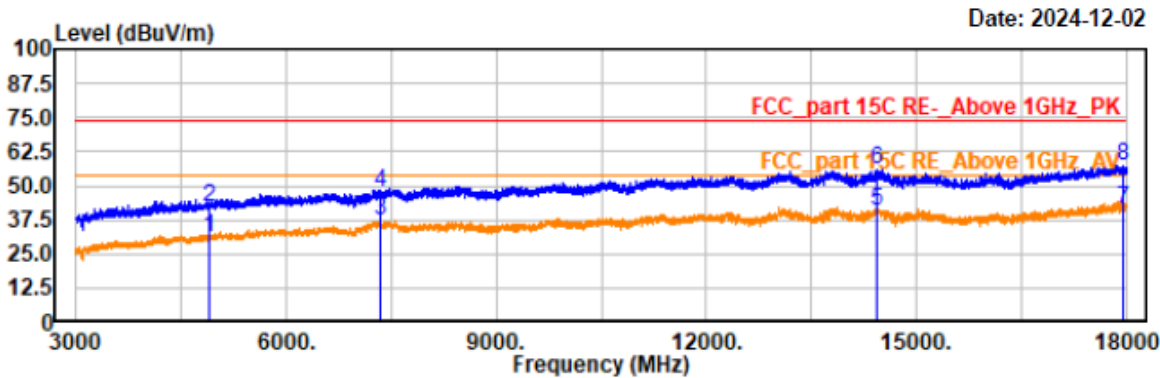
Temp/Humi/ATM: 23.5°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1199.80	52.85	-16.05	36.80	74.00	37.20	vertical	Peak
2052.80	48.93	-6.02	42.91	74.00	31.09	vertical	Peak
2605.00	48.59	-3.31	45.28	74.00	28.72	vertical	Peak

Project No.: XMDN240219-08385E-RF
Test Mode: 11n40-2452
EUT Model: PG71
Test distance: 3m

Temp/Humi/ATM: 23.1°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE



Trace: 1
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
 AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4903.50	35.37	-4.18	31.19	54.00	22.81	vertical	Average
4903.50	46.47	-4.18	42.29	74.00	31.71	vertical	Peak
7356.00	39.01	-1.59	37.42	54.00	16.58	vertical	Average
7356.00	48.92	-1.59	47.33	74.00	26.67	vertical	Peak
14443.50	35.78	5.07	40.85	54.00	13.15	vertical	Average
14443.50	50.53	5.07	55.60	74.00	18.40	vertical	Peak
17955.00	33.68	7.68	41.36	54.00	12.64	vertical	Average
17955.00	49.54	7.68	57.22	74.00	16.78	vertical	Peak

4) 18GHz~25GHz

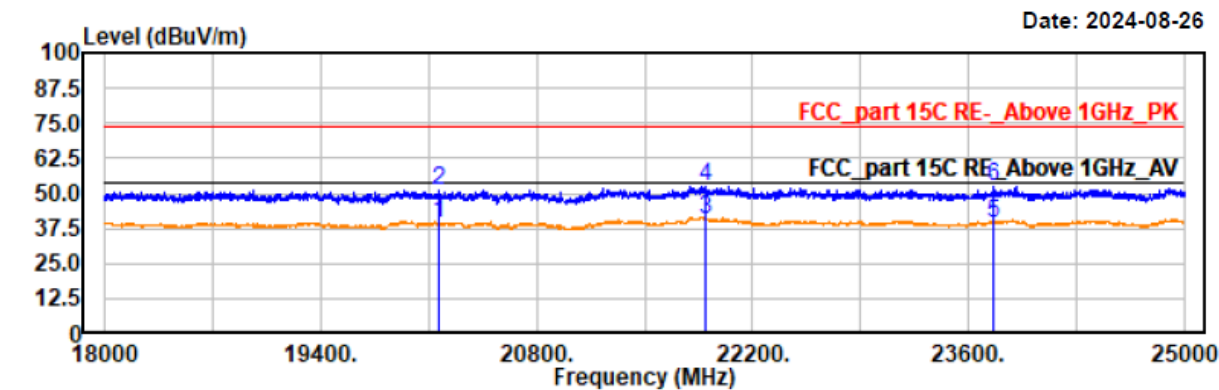
For BLE:

EUT operation mode: Transmitting in BLE middle channel (Worst Case)

EUT Model: PG71

Project No.: XMDN240219-08385E-RF
Test Mode: BLE 2440
EUT Model: PG71
Test distance: 1m

Temp/Humi/ATM: 23.5°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE



Trace: 1							
Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
20164.80	38.81	0.24	39.05	54.00	14.95	horizontal	Average
20164.80	51.09	0.24	51.33	74.00	22.67	horizontal	Peak
21896.20	38.76	1.65	40.41	54.00	13.59	horizontal	Average
21896.20	50.65	1.65	52.30	74.00	21.70	horizontal	Peak
23766.20	37.97	1.64	39.61	54.00	14.39	horizontal	Average
23766.20	50.75	1.64	52.39	74.00	21.61	horizontal	Peak

Project No.: XMDN240219-08385E-RF

Test Mode: BLE 2440

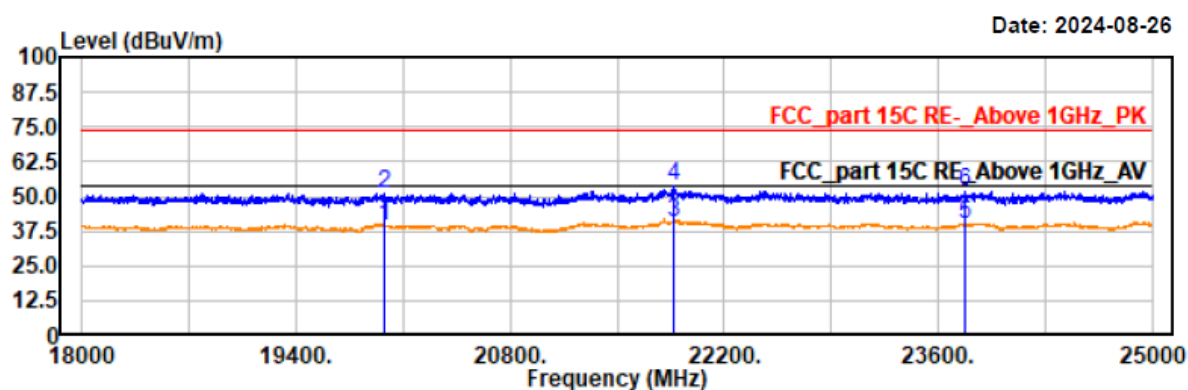
EUT Model: PG71

Test distance: 1m

Temp/Humi/ATM: 23.5°C/53%/100.1kPa

Tested by: Wlif Wu

Power Source: DC 48V from PoE



Trace: 1

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
19982.20	39.64	-0.02	39.62	54.00	14.38	vertical	Average
19982.20	51.09	-0.02	51.07	74.00	22.93	vertical	Peak
21867.60	39.16	1.63	40.79	54.00	13.21	vertical	Average
21867.60	51.83	1.63	53.46	74.00	20.54	vertical	Peak
23777.20	38.45	1.66	40.11	54.00	13.89	vertical	Average
23777.20	49.93	1.66	51.59	74.00	22.41	vertical	Peak

For WIFI:

EUT operation mode: Transmitting in Wifi 802.11b low channel (Worst Case)

EUT Model: PG71

Project No.: XMDN240219-08385E-RF

Temp/Humi/ATM: 23.5°C/53%/100.1kPa

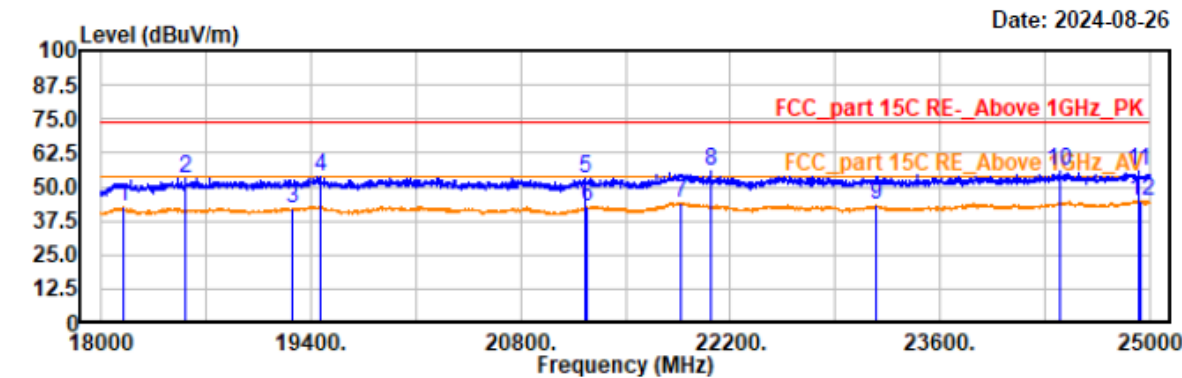
Test Mode: 11B 2412

Tested by: Wlif Wu

EUT Model: PG71

Power Source: DC 48V from PoE

Test distance: 1m



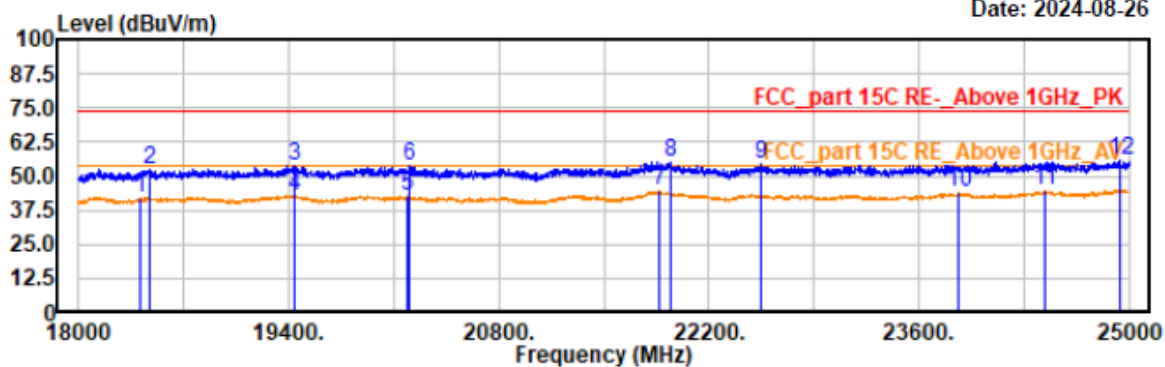
Trace: 1

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
18149.60	27.91	14.59	42.50	54.00	11.50	horizontal	Average
18561.00	38.22	14.85	53.07	74.00	20.93	horizontal	Peak
19273.80	27.34	15.03	42.37	54.00	11.63	horizontal	Average
19463.00	38.88	15.06	53.94	74.00	20.06	horizontal	Peak
21234.00	36.97	16.09	53.06	74.00	20.94	horizontal	Peak
21247.20	26.99	16.09	43.08	54.00	10.92	horizontal	Average
21872.00	27.80	16.56	44.36	54.00	9.64	horizontal	Average
22072.20	39.64	16.44	56.08	74.00	17.92	horizontal	Peak
23178.80	26.36	16.90	43.26	54.00	10.74	horizontal	Average
24395.40	36.77	18.83	55.60	74.00	18.40	horizontal	Peak
24927.80	37.34	18.86	56.20	74.00	17.80	horizontal	Peak
24936.60	26.02	18.86	44.88	54.00	9.12	horizontal	Average

Project No.: XMDN240219-08385E-RF
Test Mode: 11B 2412
EUT Model: PG71
Test distance: 1m

Temp/Humi/ATM: 23.5°C/53%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE

Date: 2024-08-26



Trace: 1

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
18415.80	27.40	14.78	42.18	54.00	11.82	vertical	Average
18468.60	37.89	14.81	52.70	74.00	21.30	vertical	Peak
19441.00	38.52	15.07	53.59	74.00	20.41	vertical	Peak
19443.20	28.01	15.07	43.08	54.00	10.92	vertical	Average
20195.60	27.32	15.43	42.75	54.00	11.25	vertical	Average
20208.80	38.29	15.45	53.74	74.00	20.26	vertical	Peak
21874.20	28.12	16.58	44.70	54.00	9.30	vertical	Average
21940.20	38.88	16.54	55.42	74.00	18.58	vertical	Peak
22551.80	38.11	16.70	54.81	74.00	19.19	vertical	Peak
23858.60	26.00	17.89	43.89	54.00	10.11	vertical	Average
24439.40	25.80	18.91	44.71	54.00	9.29	vertical	Average
24936.60	36.88	18.86	55.74	74.00	18.26	vertical	Peak

Restricted Bands Emissions:

*Pre-Scan with Wi-Fi 802.11b, 802.11g, 802.11n, 802.11nHT20, 802.11nHT40 modes and BLE in the X,Y and Z axes of orientation, and the worst case **Z-axis of orientation** is recorded*

Note:

Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - Amplifier Gain (dB)

Result (dBμV/m) = Reading (dBμV) + Factor (dB/m)

Margin (dB) = Limit (dBμV/m) - Result (dBμV/m)

For BLE

Project No.: XMDN240219-08385E-RF

Test Mode: 1M 2402

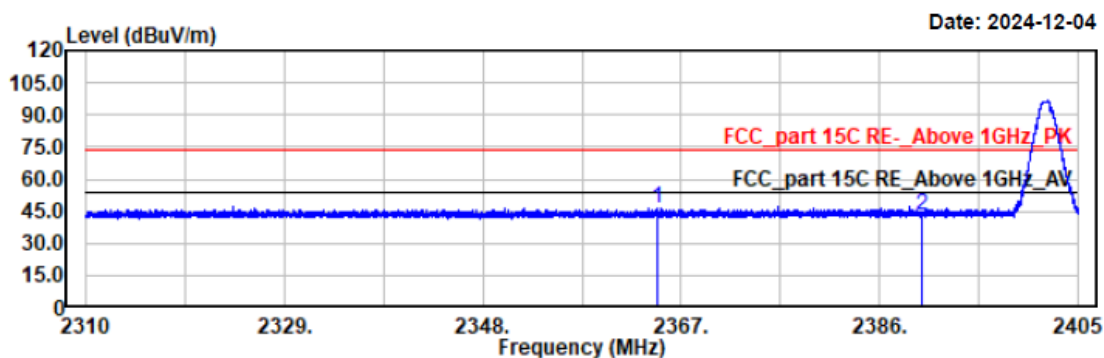
EUT Model: PG71

Test distance: 3m

Temp/Humi/ATM: 21.7°C/49%/100.1kPa

Tested by: Wlif Wu

Power Source: DC 48V from PoE

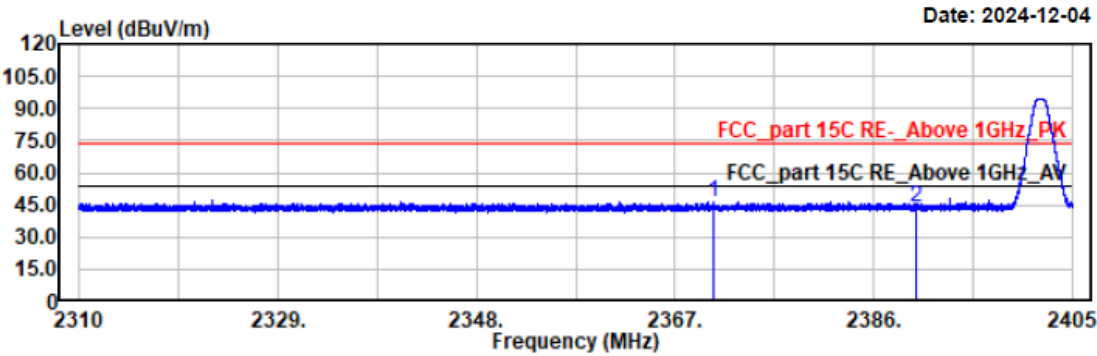


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2364.69	47.20	-0.76	46.44	74.00	27.56	horizontal	Peak
2390.00	43.64	-0.63	43.01	74.00	30.99	horizontal	Peak

Project No.: XMDN240219-08385E-RF
Test Mode: 1M 2402
EUT Model: PG71
Test distance: 3m

Temp/Humi/ATM: 21.7℃/49%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE



Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2370.68	46.73	-0.73	46.00	74.00	28.00	vertical	Peak
2390.00	44.09	-0.63	43.46	74.00	30.54	vertical	Peak

Project No.: XMDN240219-08385E-RF

Test Mode: 1M 2480

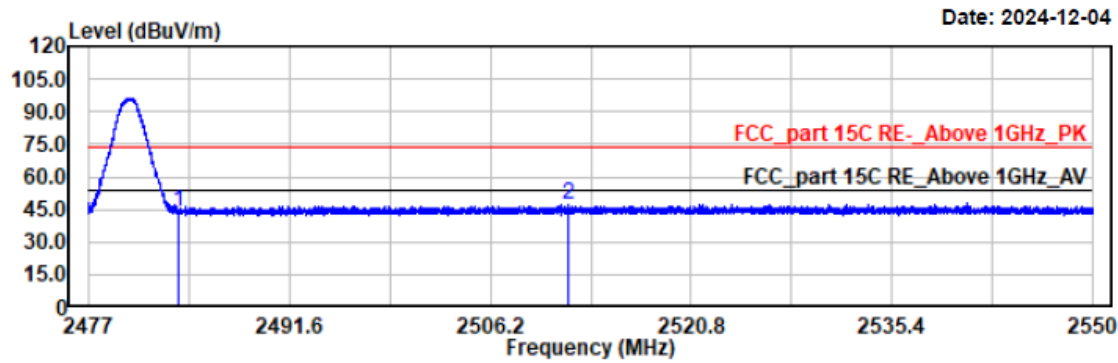
EUT Model: PG71

Test distance: 3m

Temp/Humi/ATM: 21.7℃/49%/100.1kPa

Tested by: Wlif Wu

Power Source: DC 48V from PoE

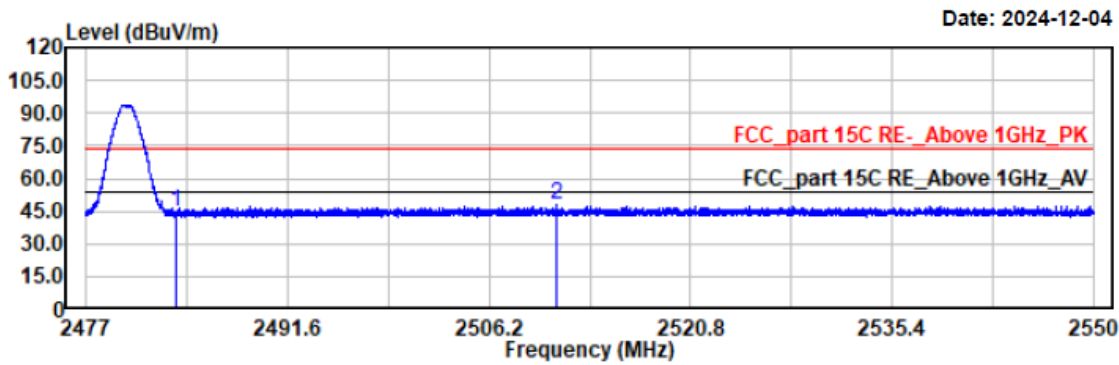


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	43.88	-0.17	43.71	74.00	30.29	horizontal	Peak
2511.89	46.98	-0.07	46.91	74.00	27.09	horizontal	Peak

Project No.: XMDN240219-08385E-RF
Test Mode: 1M 2480
EUT Model: PG71
Test distance: 3m

Temp/Humi/ATM: 21.7℃/49%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE



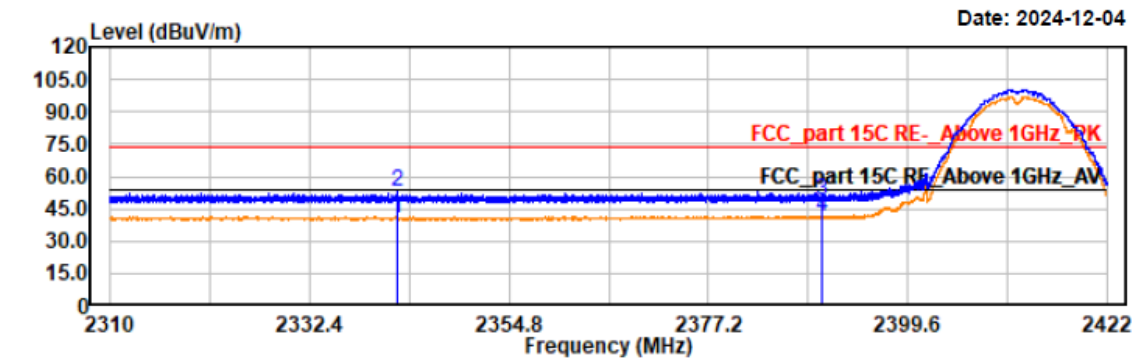
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	44.62	-0.17	44.45	74.00	29.55	vertical	Peak
2511.07	47.67	-0.07	47.60	74.00	26.40	vertical	Peak

For WiFi

Project No.: XMDN240219-08385E-RF
Test Mode: 11b 2412
EUT Model: PG71
Test distance: 3m

Temp/Humi/ATM: 21.7℃/49%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE



Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2342.31	35.30	5.14	40.44	54.00	13.56	horizontal	Average
2342.31	47.65	5.14	52.79	74.00	21.21	horizontal	Peak
2390.00	43.55	5.37	48.92	74.00	25.08	horizontal	Peak
2390.00	35.85	5.37	41.22	54.00	12.78	horizontal	Average

Project No.: XMDN240219-08385E-RF

Test Mode: 11b 2412

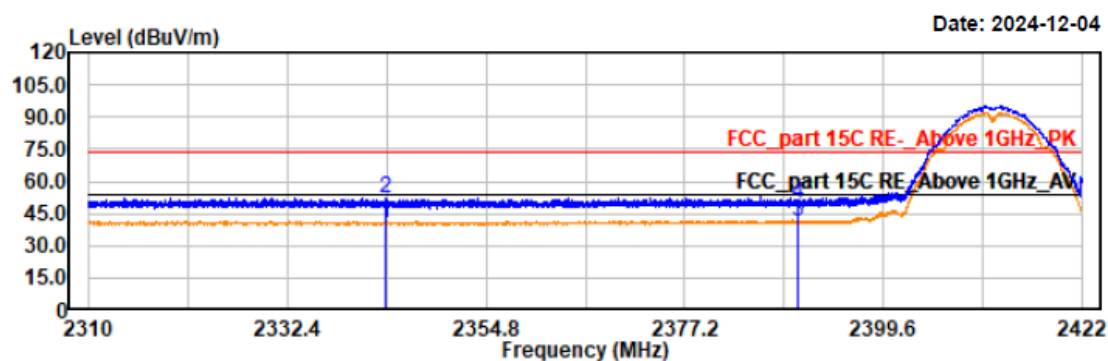
EUT Model: PG71

Test distance: 3m

Temp/Humi/ATM: 21.7°C/49%/100.1kPa

Tested by: Wlif Wu

Power Source: DC 48V from PoE



Trace: 1

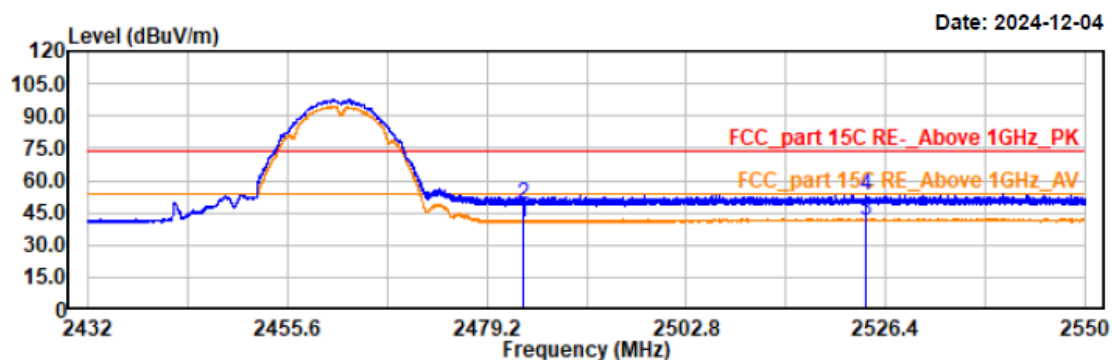
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2343.52	35.23	5.15	40.38	54.00	13.62	vertical	Average
2343.52	47.32	5.15	52.47	74.00	21.53	vertical	Peak
2390.00	35.67	5.37	41.04	54.00	12.96	vertical	Average
2390.00	44.41	5.37	49.78	74.00	24.22	vertical	Peak

Project No.: XMDN240219-08385E-RF
Test Mode: 11b 2462
EUT Model: PG71
Test distance: 3m

Temp/Humi/ATM: 21.7°C/49%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE



Trace: 1

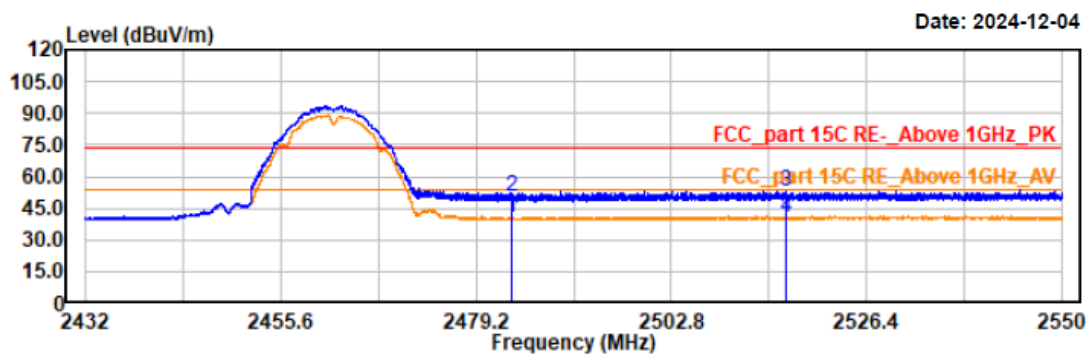
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	35.01	5.83	40.84	54.00	13.16	horizontal	Average
2483.50	42.97	5.83	48.80	74.00	25.20	horizontal	Peak
2524.09	35.28	5.94	41.22	54.00	12.78	horizontal	Average
2524.09	47.39	5.94	53.33	74.00	20.67	horizontal	Peak

Project No.: XMDN240219-08385E-RF
Test Mode: 11b 2462
EUT Model: PG71
Test distance: 3m

Temp/Humi/ATM: 21.7°C/49%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE



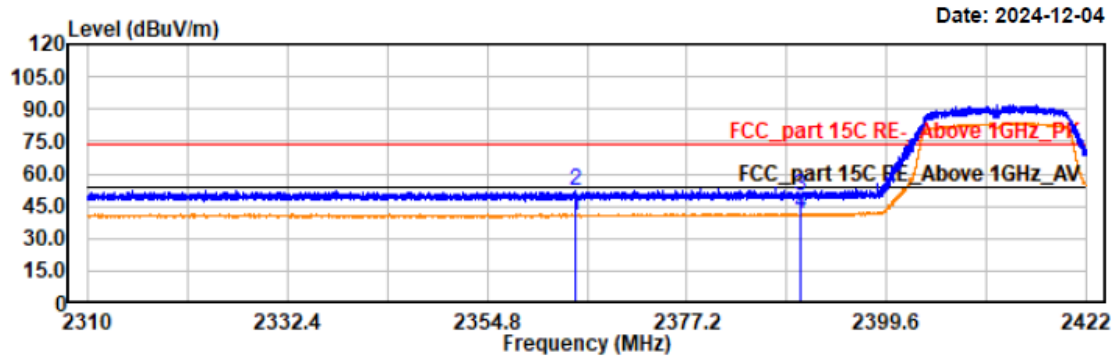
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	35.11	5.83	40.94	54.00	13.06	vertical	Average
2483.50	44.72	5.83	50.55	74.00	23.45	vertical	Peak
2516.72	47.03	5.93	52.96	74.00	21.04	vertical	Peak
2516.72	34.36	5.93	40.29	54.00	13.71	vertical	Average

Project No.: XMDN240219-08385E-RF
Test Mode: 11g 2412
EUT Model: PG71
Test distance: 3m

Temp/Humi/ATM: 21.7°C/49%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE



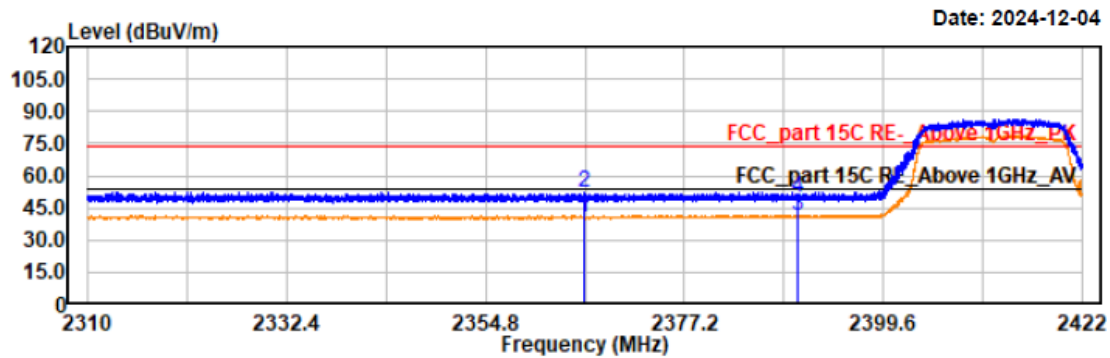
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2364.77	35.20	5.24	40.44	54.00	13.56	horizontal	Average
2364.77	46.60	5.24	51.84	74.00	22.16	horizontal	Peak
2390.00	44.31	5.37	49.68	74.00	24.32	horizontal	Peak
2390.00	35.64	5.37	41.01	54.00	12.99	horizontal	Average

Project No.: XMDN240219-08385E-RF
Test Mode: 11g 2412
EUT Model: PG71
Test distance: 3m

Temp/Humi/ATM: 21.7°C/49%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE



Trace: 1

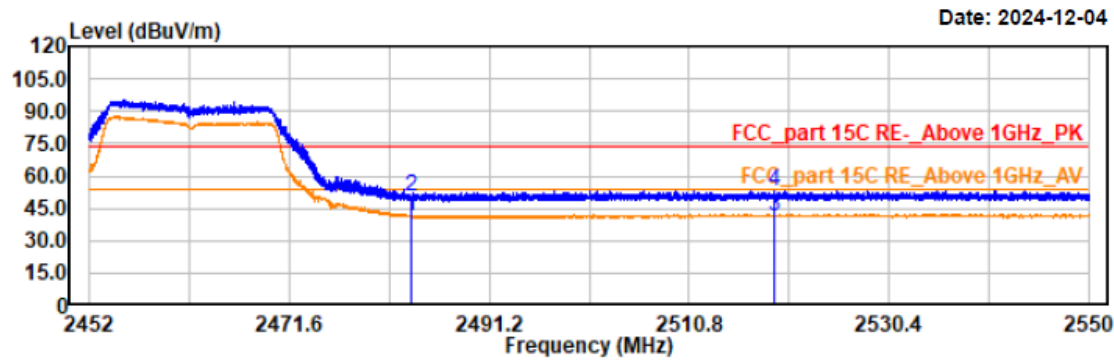
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2365.84	35.36	5.24	40.60	54.00	13.40	vertical	Average
2365.84	46.88	5.24	52.12	74.00	21.88	vertical	Peak
2390.00	35.71	5.37	41.08	54.00	12.92	vertical	Average
2390.00	44.69	5.37	50.06	74.00	23.94	vertical	Peak

Project No.: XMDN240219-08385E-RF
Test Mode: 11g 2462
EUT Model: PG71
Test distance: 3m

Temp/Humi/ATM: 21.7℃/49%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE



Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	35.34	5.83	41.17	54.00	12.83	horizontal	Average
2483.50	45.00	5.83	50.83	74.00	23.17	horizontal	Peak
2519.19	35.13	5.94	41.07	54.00	12.93	horizontal	Average
2519.19	47.21	5.94	53.15	74.00	20.85	horizontal	Peak

Project No.: XMDN240219-08385E-RF

Test Mode: 11g 2462

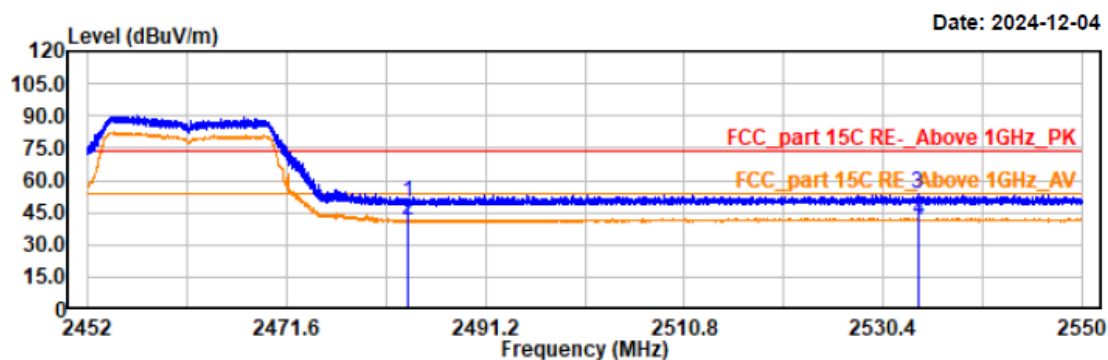
EUT Model: PG71

Test distance: 3m

Temp/Humi/ATM: 21.7°C/49%/100.1kPa

Tested by: Wlif Wu

Power Source: DC 48V from PoE



Trace: 1

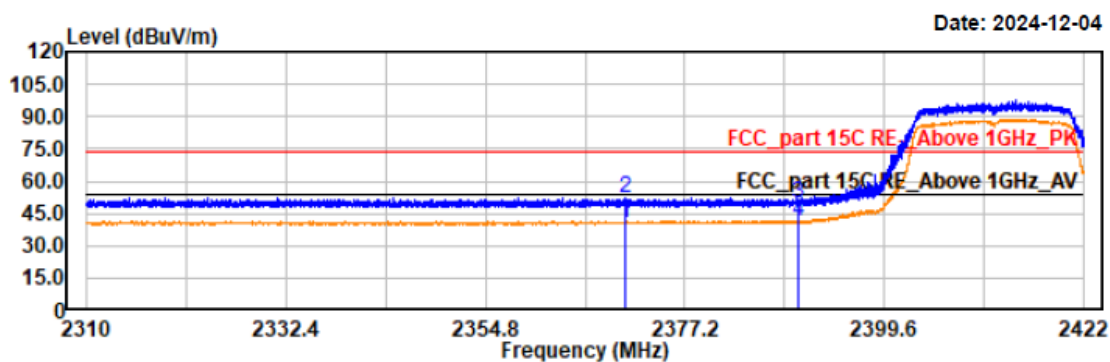
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	44.13	5.83	49.96	74.00	24.04	vertical	Peak
2483.50	35.34	5.83	41.17	54.00	12.83	vertical	Average
2533.81	47.50	5.95	53.45	74.00	20.55	vertical	Peak
2533.82	35.38	5.95	41.33	54.00	12.67	vertical	Average

Project No.: XMDN240219-08385E-RF
Test Mode: 11n20 2412
EUT Model: PG71
Test distance: 3m

Temp/Humi/ATM: 21.7°C/49%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE



Trace: 1

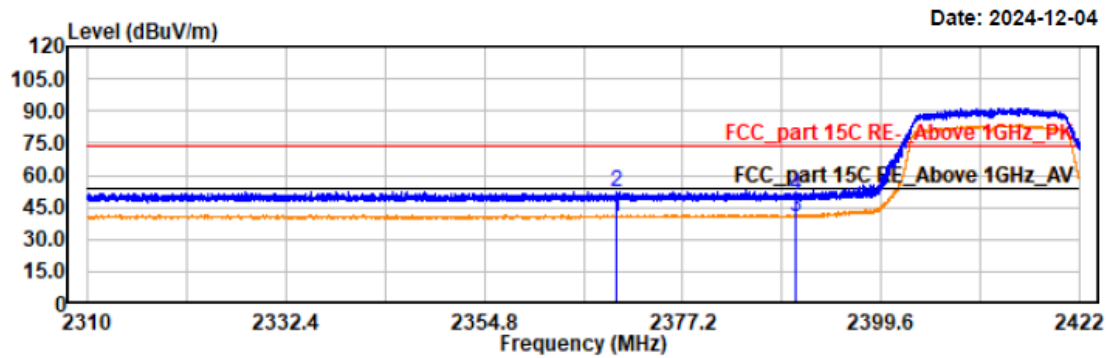
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2370.51	35.36	5.27	40.63	54.00	13.37	horizontal	Average
2370.51	46.86	5.27	52.13	74.00	21.87	horizontal	Peak
2390.00	44.38	5.37	49.75	74.00	24.25	horizontal	Peak
2390.00	35.98	5.37	41.35	54.00	12.65	horizontal	Average

Project No.: XMDN240219-08385E-RF
Test Mode: 11n20 2412
EUT Model: PG71
Test distance: 3m

Temp/Humi/ATM: 21.7°C/49%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE



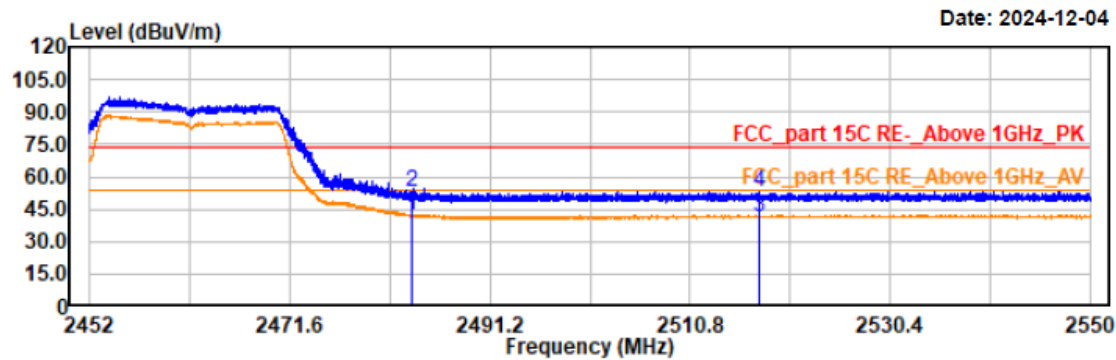
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2369.79	35.60	5.27	40.87	54.00	13.13	vertical	Average
2369.79	47.18	5.27	52.45	74.00	21.55	vertical	Peak
2390.00	35.50	5.37	40.87	54.00	13.13	vertical	Average
2390.00	44.74	5.37	50.11	74.00	23.89	vertical	Peak

Project No.: XMDN240219-08385E-RF
Test Mode: 11n20 2462
EUT Model: PG71
Test distance: 3m

Temp/Humi/ATM: 21.7℃/49%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE



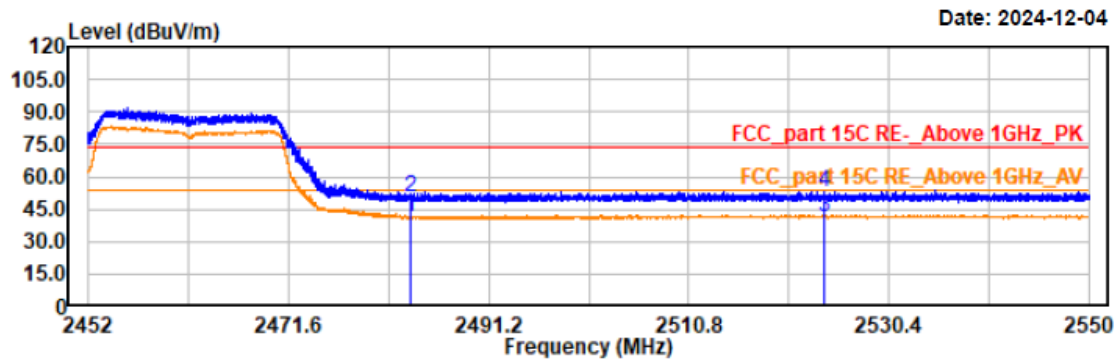
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	36.04	5.83	41.87	54.00	12.13	horizontal	Average
2483.50	46.88	5.83	52.71	74.00	21.29	horizontal	Peak
2517.50	35.69	5.94	41.63	54.00	12.37	horizontal	Average
2517.50	46.96	5.94	52.90	74.00	21.10	horizontal	Peak

Project No.: XMDN240219-08385E-RF
Test Mode: 11n20 2462
EUT Model: PG71
Test distance: 3m

Temp/Humi/ATM: 21.7℃/49%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE



Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	35.26	5.83	41.09	54.00	12.91	vertical	Average
2483.50	44.54	5.83	50.37	74.00	23.63	vertical	Peak
2524.14	35.57	5.94	41.51	54.00	12.49	vertical	Average
2524.14	47.21	5.94	53.15	74.00	20.85	vertical	Peak

Project No.: XMDN240219-08385E-RF

Test Mode: 11n40 2422

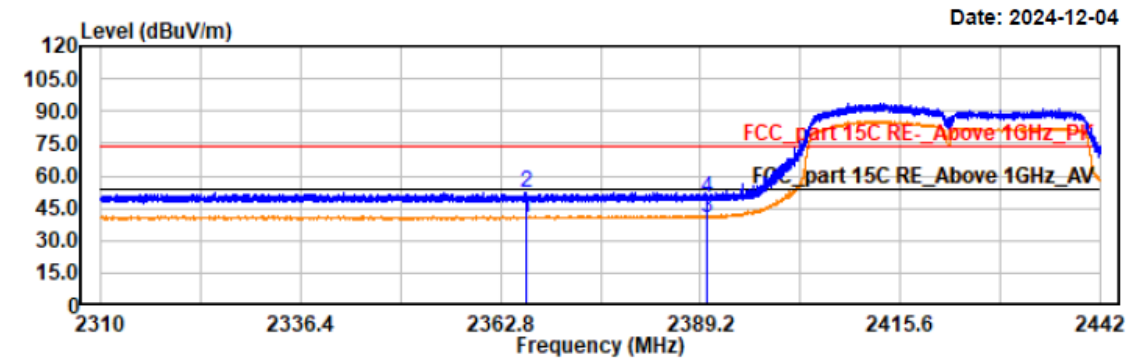
EUT Model: PG71

Test distance: 3m

Temp/Humi/ATM: 21.7℃/49%/100.1kPa

Tested by: Wlif Wu

Power Source: DC 48V from PoE



Trace: 1

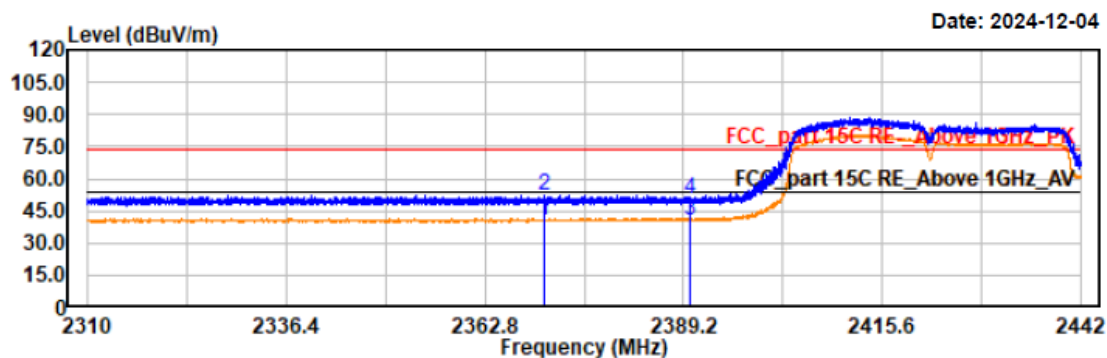
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2366.31	35.12	5.26	40.38	54.00	13.62	horizontal	Average
2366.31	46.91	5.26	52.17	74.00	21.83	horizontal	Peak
2390.01	35.44	5.37	40.81	54.00	13.19	horizontal	Average
2390.01	44.69	5.37	50.06	74.00	23.94	horizontal	Peak

Project No.: XMDN240219-08385E-RF
Test Mode: 11n40 2422
EUT Model: PG71
Test distance: 3m

Temp/Humi/ATM: 21.7°C/49%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE



Trace: 1

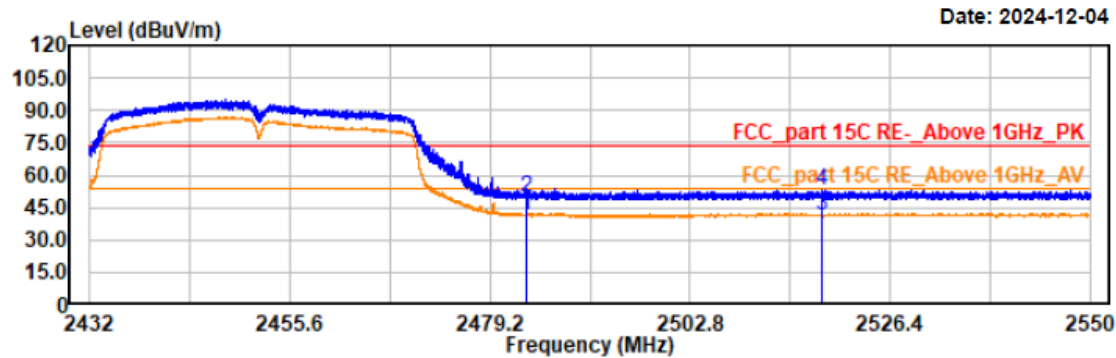
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2370.71	35.51	5.27	40.78	54.00	13.22	vertical	Average
2370.76	46.56	5.27	51.83	74.00	22.17	vertical	Peak
2390.01	35.52	5.37	40.89	54.00	13.11	vertical	Average
2390.01	45.03	5.37	50.40	74.00	23.60	vertical	Peak

Project No.: XMDN240219-08385E-RF
Test Mode: 11n40 2452
EUT Model: PG71
Test distance: 3m

Temp/Humi/ATM: 21.7℃/49%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE



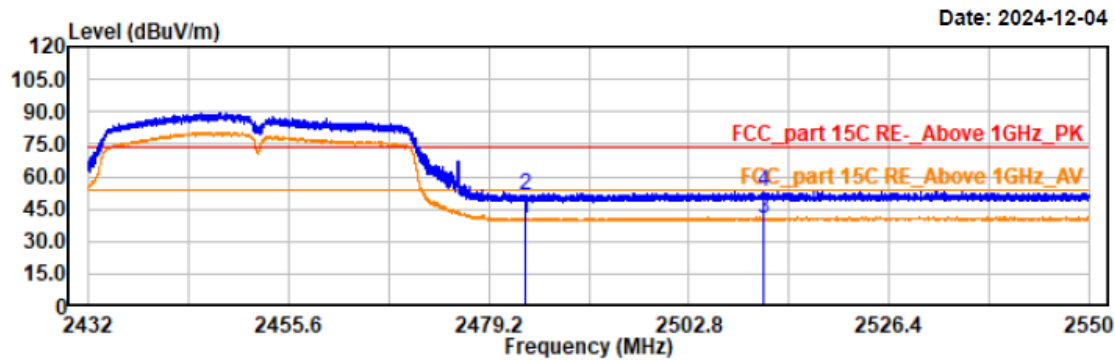
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	35.46	5.83	41.29	54.00	12.71	horizontal	Average
2483.50	44.02	5.83	49.85	74.00	24.15	horizontal	Peak
2518.26	35.49	5.94	41.43	54.00	12.57	horizontal	Average
2518.26	47.29	5.94	53.23	74.00	20.77	horizontal	Peak

Project No.: XMDN240219-08385E-RF
Test Mode: 11n40 2452
EUT Model: PG71
Test distance: 3m

Temp/Humi/ATM: 21.7℃/49%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 48V from PoE



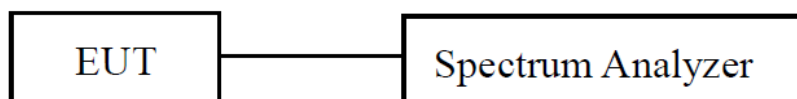
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	35.04	5.83	40.87	54.00	13.13	vertical	Average
2483.50	45.38	5.83	51.21	74.00	22.79	vertical	Peak
2511.57	34.51	5.93	40.44	54.00	13.56	vertical	Average
2511.57	46.99	5.93	52.92	74.00	21.08	vertical	Peak

FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH**Applicable Standard**

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

EUT Setup**Test Procedure**

According to ANSI C63.10-2013 Section 11.8

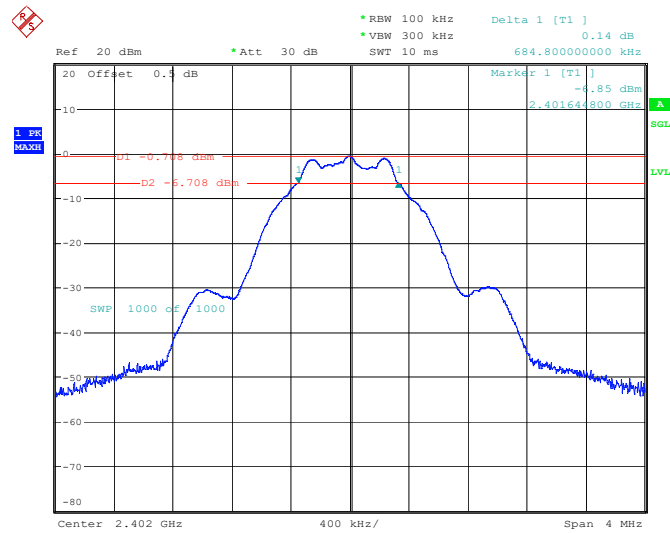
- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Test Data**For BLE:**

Test Mode:	Transmitting	Test Engineer:	Jason Hu	
Test Date:	2024-06-02	Test Voltage:	DC 12V from Adapter (AC 120V/60Hz)	
Test Result:	Compliance	Environment:	Temp.: 23.0°C Humi.: 55% Atm :100.1kPa	
Test Channel	Test Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	
Lowest	2402	0.685	≥ 0.5	
Middle	2440	0.685	≥ 0.5	
Highest	2480	0.694	≥ 0.5	

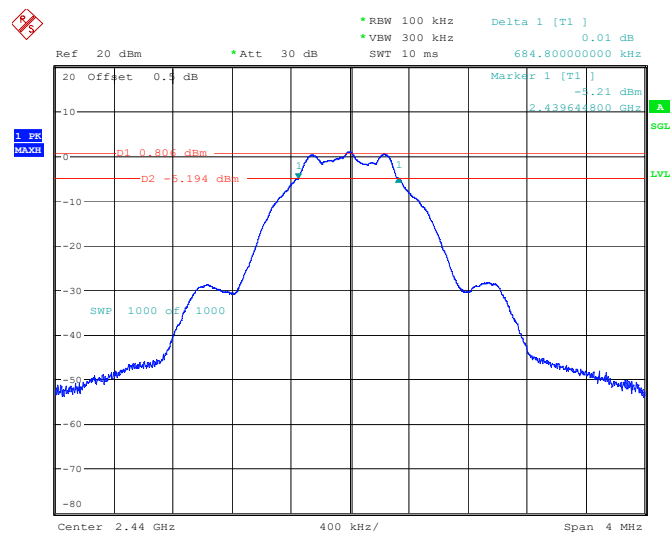
Please refer to below plots:

BLE Low Channel



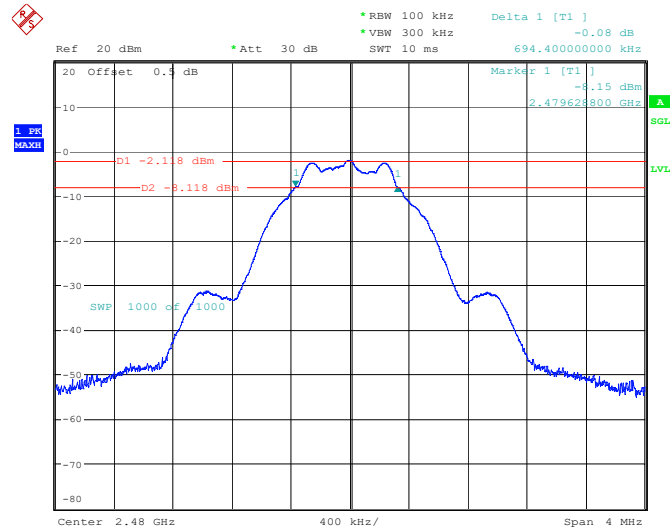
ProjectNo.:XMDN240219-08385E-RF Tester:Jason Hu
Date: 2.JUN.2024 10:54:42

BLE Middle Channel



ProjectNo.:XMDN240219-08385E-RF Tester:Jason Hu
Date: 2.JUN.2024 10:55:40

BLE High Channel



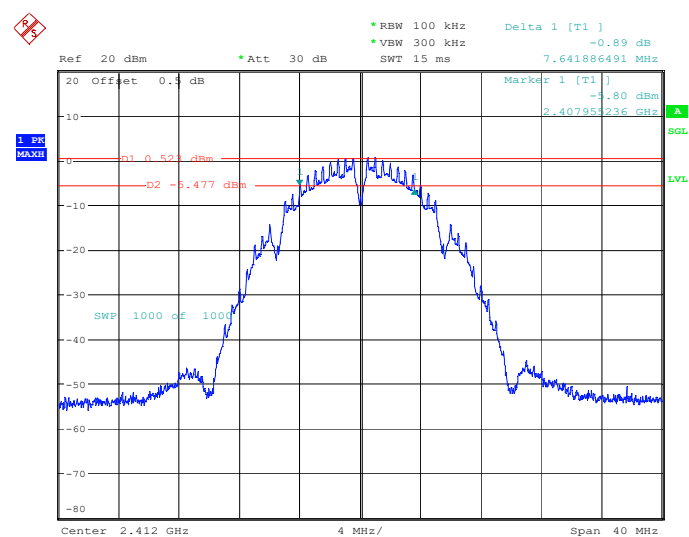
ProjectNo.:XMDN240219-08385E-RF Tester:Jason Hu
Date: 2.JUN.2024 10:56:51

For WIFI:

Test Mode:	Transmitting	Test Engineer:	Jason Hu
Test Date:	2024-06-26	Test Voltage:	DC 12V from Adapter (AC 120V/60Hz)
Test Result:	Compliance	Environment:	Temp.:21.6°C Humi.: 55% Atm :100.1kPa
Test Modes	Test Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)
802.11b	2412	7.642	0.5
	2437	7.61	0.5
	2462	7.674	0.5
802.11g	2412	16.403	0.5
	2437	16.435	0.5
	2462	16.467	0.5
802.11n ht20	2412	17.65	0.5
	2437	17.65	0.5
	2462	17.65	0.5
802.11n ht40	2422	35.3	0.5
	2437	35.3	0.5
	2452	35.3	0.5

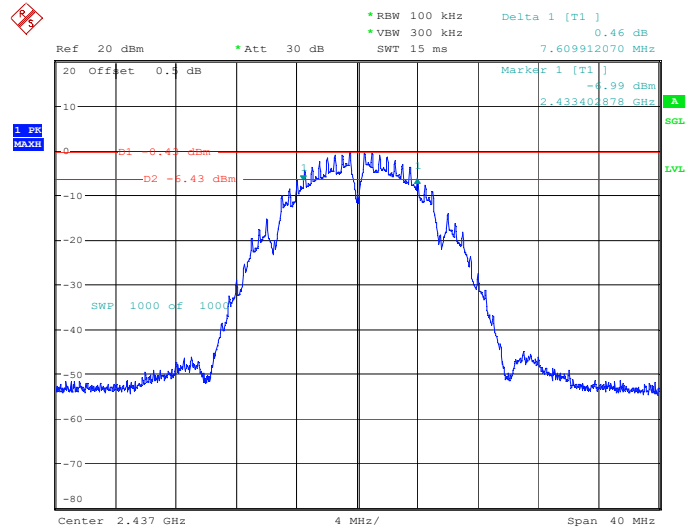
Please refer to below plots:

802.11b Mode Low Channel



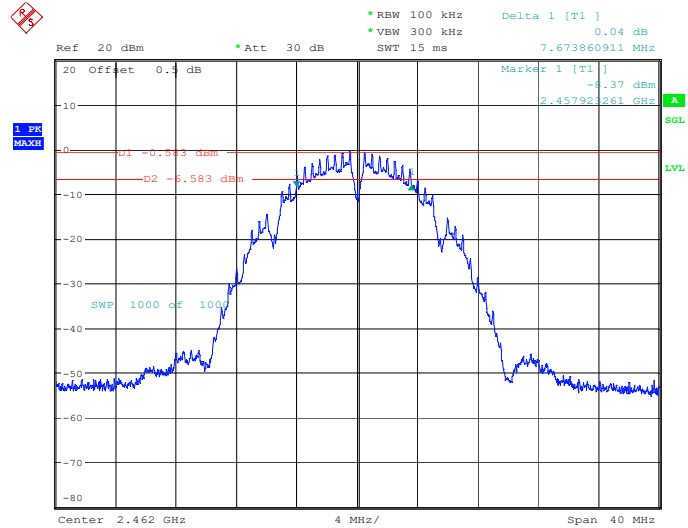
ProjectNo.:XMDN240219-08385E-RF Tester:Jason Hu
Date: 26.JUN.2024 15:51:13

802.11b Mode Middle Channel



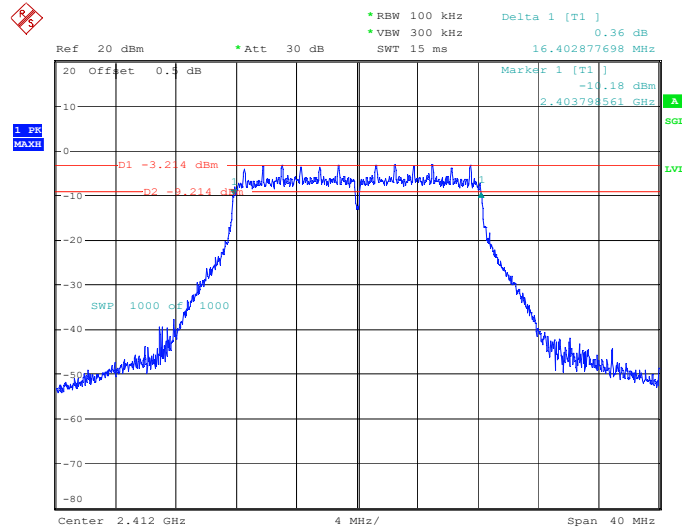
ProjectNo.:XMDN240219-08385E-RF Tester:Jason Hu
 Date: 26.JUN.2024 15:52:37

802.11b Mode High Channel



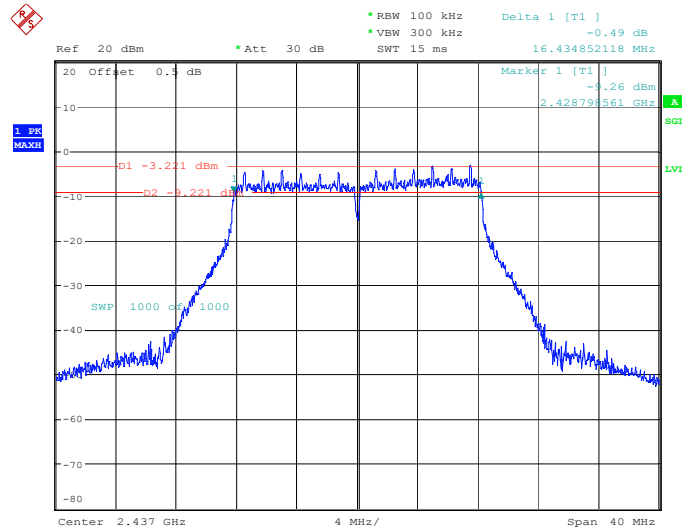
ProjectNo.:XMDN240219-08385E-RF Tester:Jason Hu
 Date: 26.JUN.2024 15:54:38

802.11g Mode Low Channel

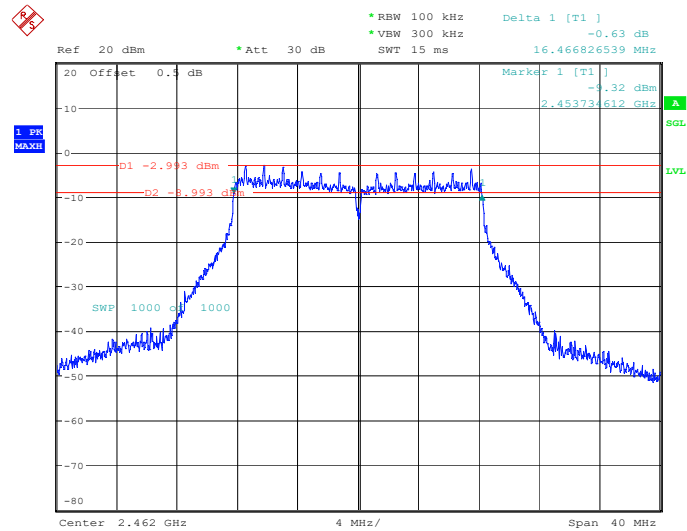


ProjectNo.:XMDN240219-08385E-RF Tester:Jason Hu
Date: 26.JUN.2024 15:56:11

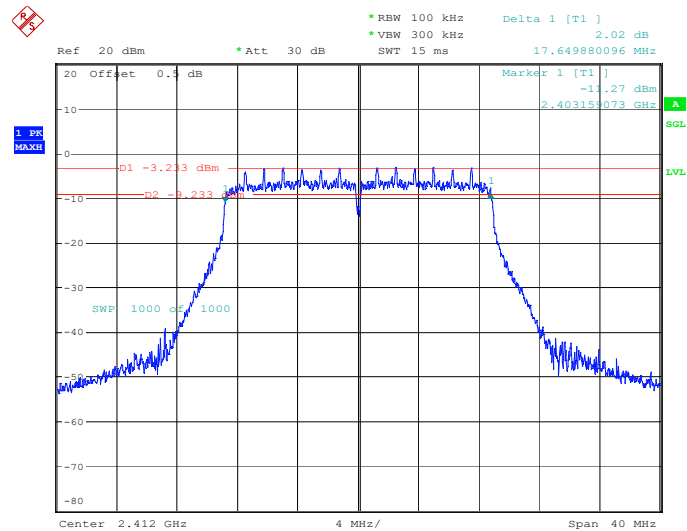
802.11g Mode Middle Channel



ProjectNo.:XMDN240219-08385E-RF Tester:Jason Hu
Date: 26.JUN.2024 15:57:31

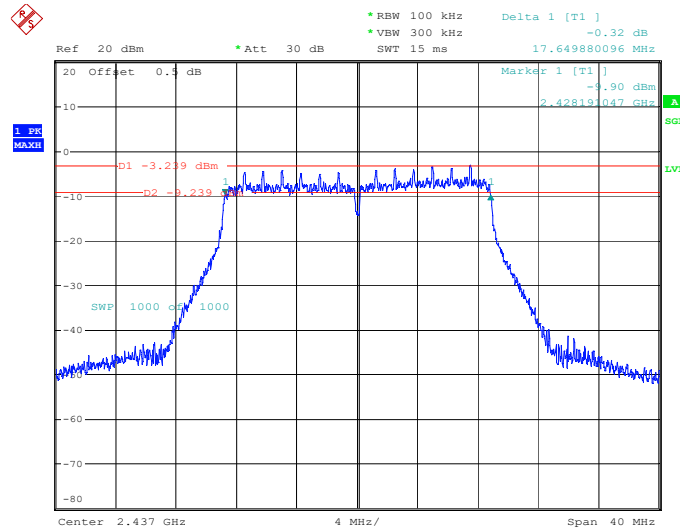
802.11g Mode High Channel

ProjectNo.:XMDN240219-08385E-RF Tester:Jason Hu
Date: 26.JUN.2024 15:59:22

802.11n-ht20 Mode Low Channel

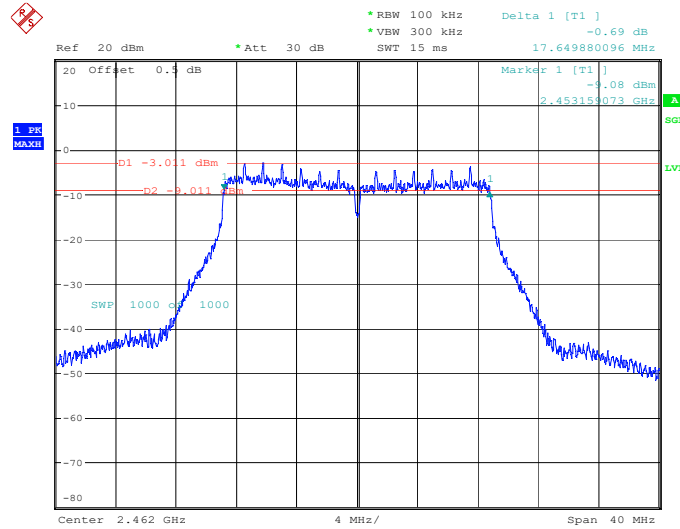
ProjectNo.:XMDN240219-08385E-RF Tester:Jason Hu
Date: 26.JUN.2024 16:02:00

802.11n-ht20 Mode Middle Channel



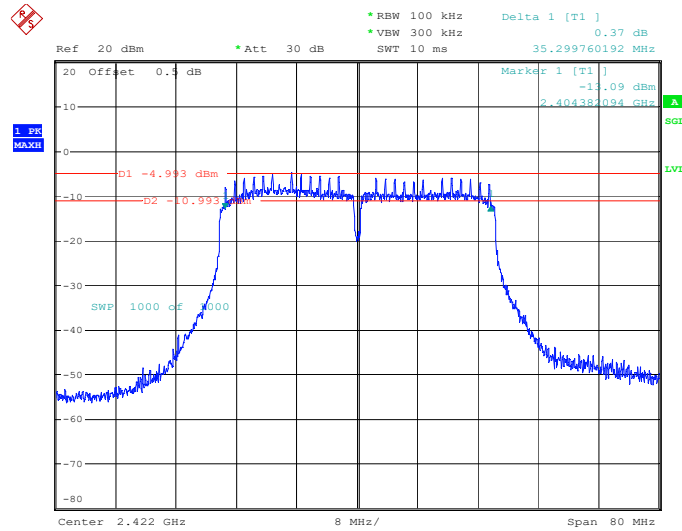
ProjectNo.:XMDN240219-08385E-RF Tester:Jason Hu
 Date: 26.JUN.2024 16:03:22

802.11n-ht20 Mode High Channel



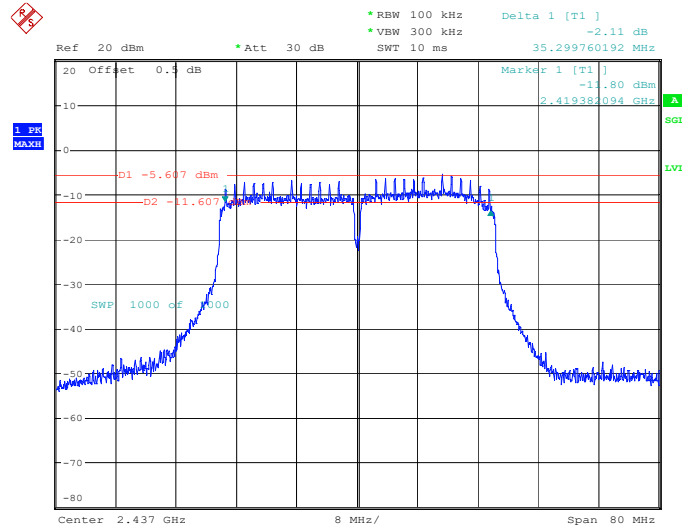
ProjectNo.:XMDN240219-08385E-RF Tester:Jason Hu
 Date: 26.JUN.2024 16:05:17

802.11n-ht40 Mode Low Channel



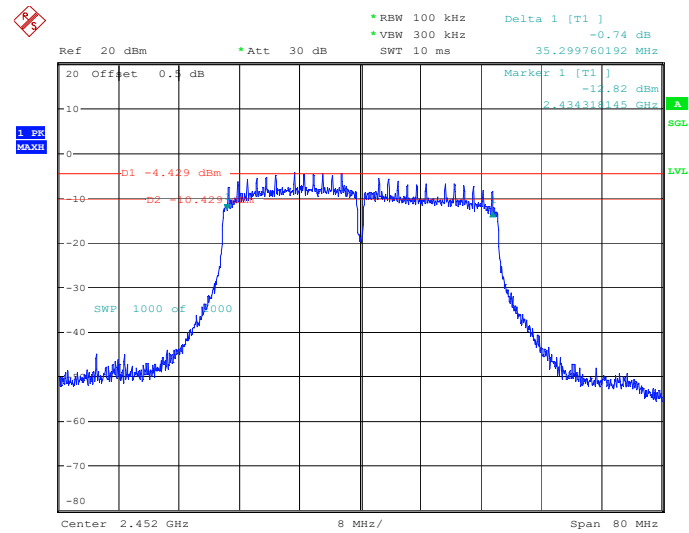
ProjectNo.:XMDN240219-08385E-RF Tester:Jason Hu
Date: 26.JUN.2024 16:07:00

802.11n-ht40 Mode Middle Channel



ProjectNo.:XMDN240219-08385E-RF Tester:Jason Hu
Date: 26.JUN.2024 16:08:46

802.11n-ht40 Mode High Channel



ProjectNo.:XMDN240219-08385E-RF Tester:Jason Hu
Date: 26.JUN.2024 16:09:58

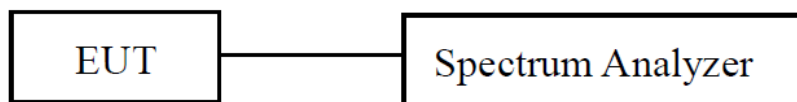
FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER

Applicable Standard

According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

EUT Setup

For BLE:



For WiFi:



Test Procedure

For BLE

According to ANSI C63.10-2013 11.9.1.1

- Set the RBW $\geq$ DTS bandwidth.
- Set VBW $\geq [3 \times \text{RBW}]$.
- Set span $\geq [3 \times \text{RBW}]$.
- Sweep time = auto couple.
- Detector = peak.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use peak marker function to determine the peak amplitude level.

For 2.4G WiFi

According to ANSI C63.10-2013 11.9.2.3.1 Method AVGPM

- As an alternative to spectrum analyzer or EMI receiver measurements, measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied:
 - The EUT is configured to transmit continuously, or to transmit with a constant duty cycle.
 - At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
 - The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.

- b) If the transmitter does not transmit continuously, measure the duty cycle, D, of the transmitter output signal as described in 11.6.
- c) Measure the average power of the transmitter. This measurement is an average over both the ON and OFF periods of the transmitter.
- d) Adjust the measurement in dBm by adding $[10 \log (1 / D)]$, where D is the duty cycle.

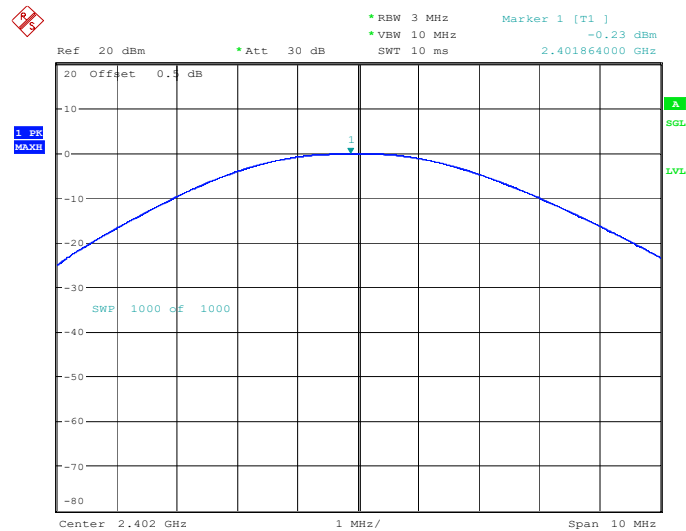
Test Data

For BLE:

Test Mode:	Transmitting	Test Engineer:	Jason Hu
Test Date:	2024-06-02	Test Voltage:	DC 12V from Adapter (AC 120V/60Hz)
Test Result:	Compliance	Environment:	Temp.: 23.0°C Humi.: 55% Atm.:100.1kPa
Test Channel	Test Frequency (MHz)	Maximum Conducted Peak Output Power(dBm)	Limit (dBm)
Lowest	2402	-0.23	≤30
Middle	2440	1.31	≤30
Highest	2480	-1.79	≤30

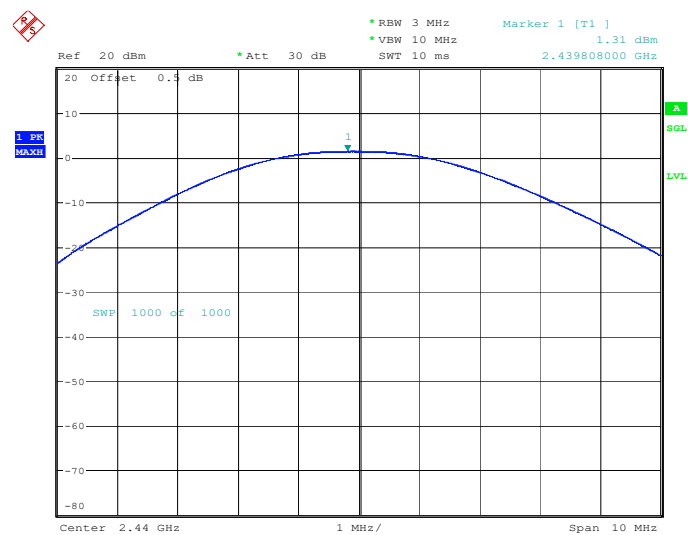
Please refer to below plots:

BLE Low Channel



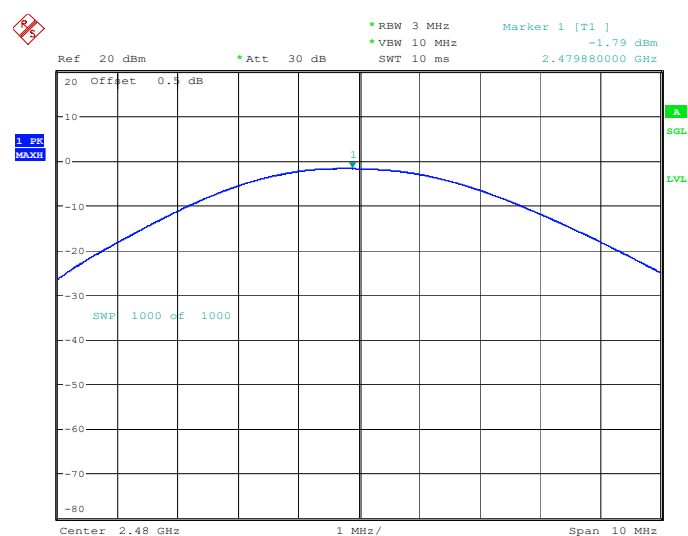
ProjectNo.:XMDN240219-08385E-RF Tester:Jason Hu
Date: 2.JUN.2024 10:58:26

BLE Middle Channel



ProjectNo.:XMDN240219-08385E-RF Tester:Jason Hu
Date: 2.JUN.2024 10:59:23

BLE High Channel



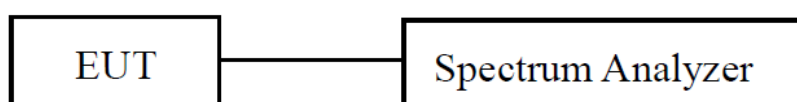
ProjectNo.:XMDN240219-08385E-RF Tester:Jason Hu
Date: 2.JUN.2024 11:00:18

For WIFI:

Test Mode:	Transmitting		Test Engineer:	Jason Hu	
Test Date:	2024-06-26		Test Voltage:	DC 12V from Adapter (AC 120V/60Hz)	
Test Result:	Compliance		Environment:	Temp.: 21.6°C Humi.: 55% Atm.:100.1kPa	
Test Modes	Test Frequency (MHz)	Maximum Conducted Average Output Power (dBm)	Duty Factor (dB)	Result (dBm)	Limit (dBm)
802.11b	2412	13.62	0.11	13.73	30
	2437	12.66	0.11	12.77	30
	2462	12.16	0.11	12.27	30
802.11g	2412	7.86	0.59	8.45	30
	2437	7.16	0.59	7.75	30
	2462	6.82	0.59	7.41	30
802.11n ht20	2412	8.88	0.63	9.51	30
	2437	8.21	0.63	8.84	30
	2462	7.92	0.63	8.55	30
802.11n ht40	2422	7.58	1.19	8.77	30
	2437	6.64	1.19	7.83	30
	2452	7.71	1.19	8.90	30

FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE**Applicable Standard**

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

EUT Setup**Test Procedure**

According to ANSI C63.10-2013 Section 11.11

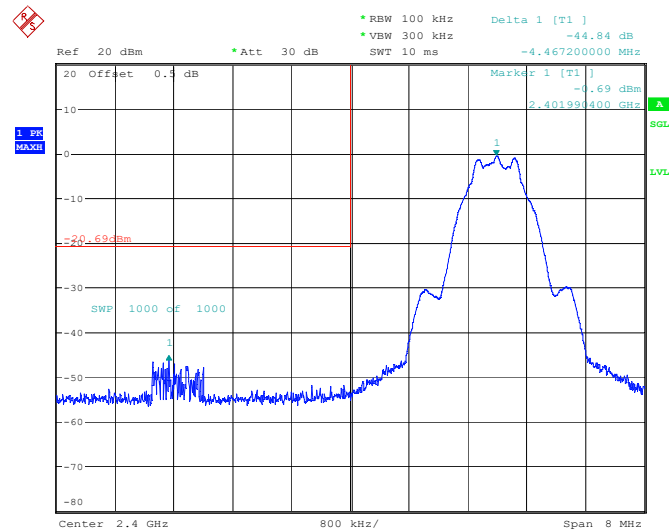
- Set the center frequency and span to encompass frequency range to be measured.
 - Set the RBW = 100 kHz.
 - Set the VBW $\geq [3 \times \text{RBW}]$.
 - Detector = peak.
 - Sweep time = auto couple.
 - Trace mode = max hold.
 - Allow trace to fully stabilize.
 - Use the peak marker function to determine the maximum amplitude level.
- Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

Test Data**For BLE:**

Test Mode:	Transmitting	Test Engineer:	Jason Hu
Test Date:	2024-06-02	Test Voltage:	DC 12V from Adapter (AC 120V/60Hz)
Test Result:	Compliance	Environment:	Temp.: 23.0°C Humi.: 55% Atm.: 100.1kPa

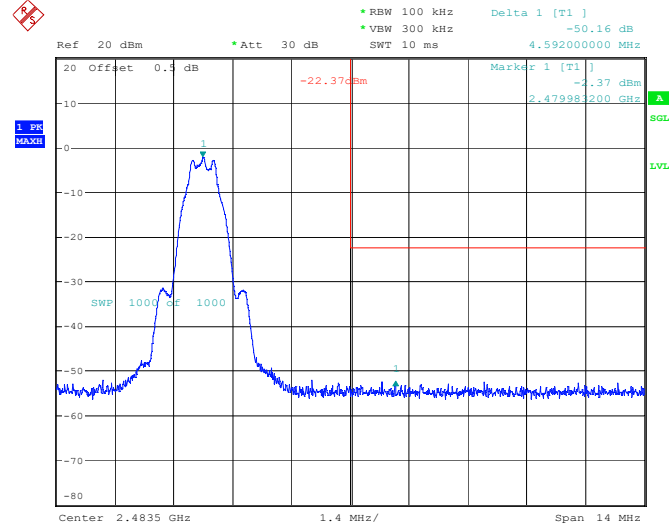
Please refer to below plots:

BLE Low Channel



ProjectNo.:XMDN240219-08385E-RF Tester:Jason Hu
Date: 2.JUN.2024 11:04:03

BLE High Channel



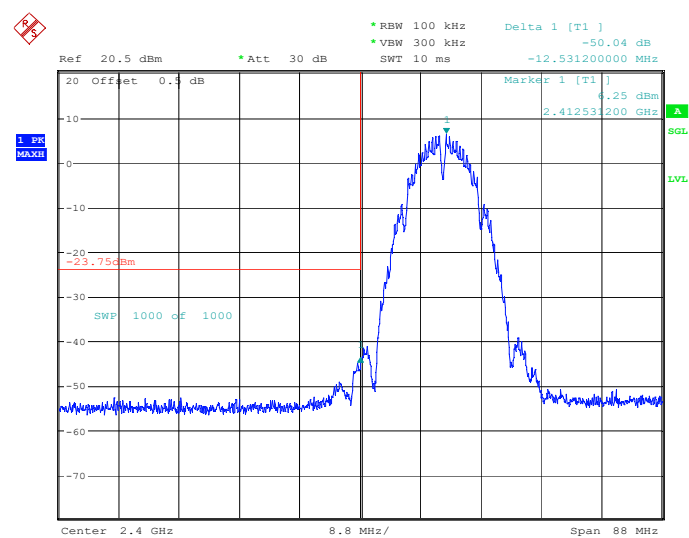
ProjectNo.:XMDN240219-08385E-RF Tester:Jason Hu
Date: 2.JUN.2024 11:02:52

For WIFI:

Test Mode:	Transmitting	Test Engineer:	Jason Hu
Test Date:	2024-06-26	Test Voltage:	DC 12V from Adapter (AC 120V/60Hz)
Test Result:	Compliance	Environment:	Temp.: 21.6°C Humi.: 55% Atm.:100.1kPa

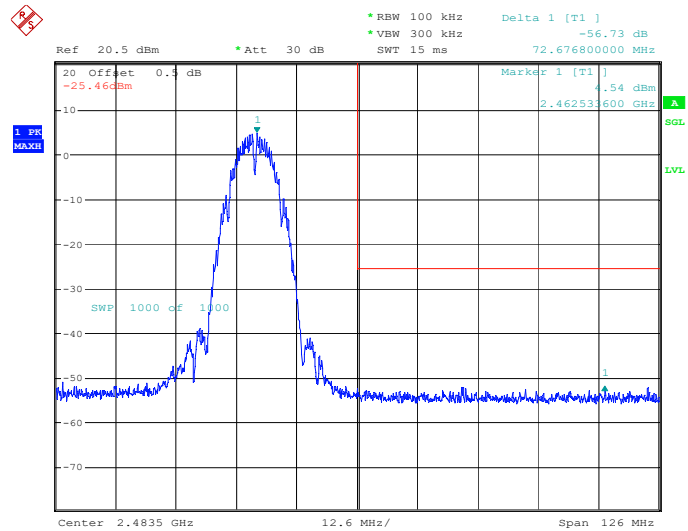
Please refer to below plots:

802.11b Mode Left Side



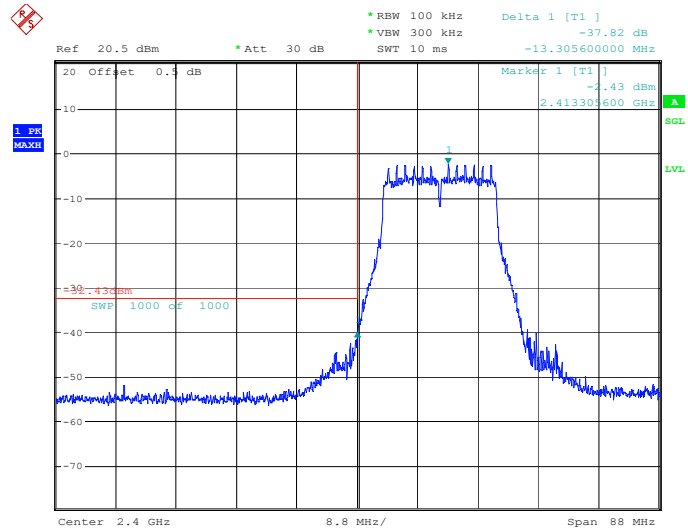
ProjectNo.:XMDN240219-08385E-RF Tester:Jason Hu
Date: 1.JUL.2024 14:43:12

802.11b Mode Right Side



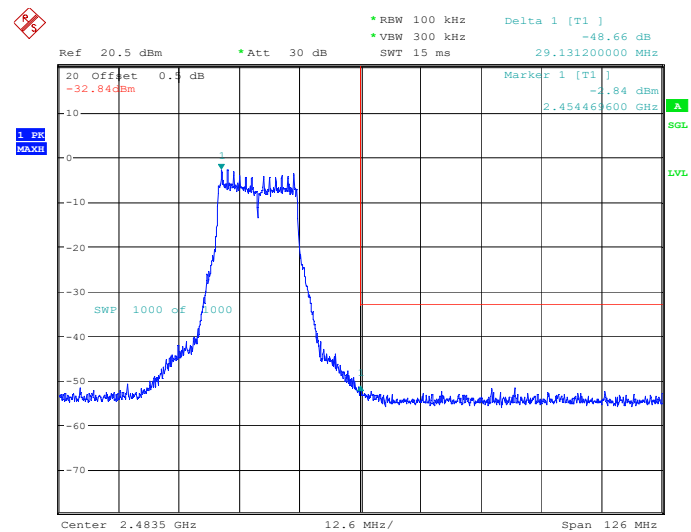
ProjectNo.:XMDN240219-08385E-RF Tester:Jason Hu
Date: 1.JUL.2024 14:47:32

802.11g Mode Left Side



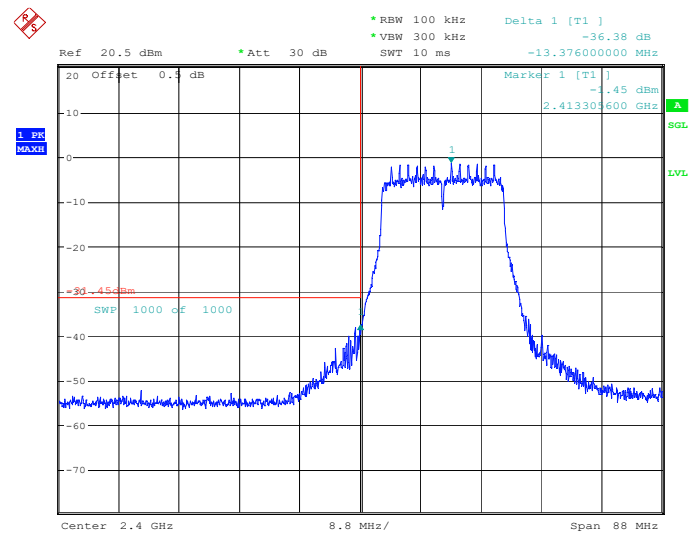
ProjectNo.:XMDN240219-08385E-RF Tester:Jason Hu
Date: 1.JUL.2024 14:50:29

802.11g Mode Right Side



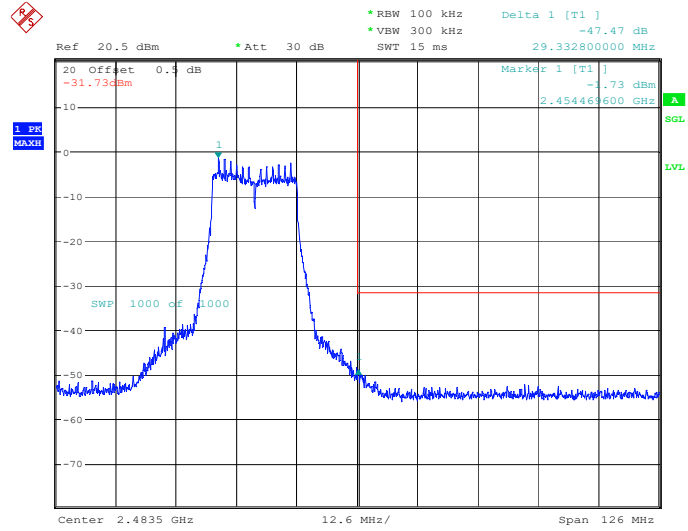
ProjectNo.:XMDN240219-08385E-RF Tester:Jason Hu
Date: 1.JUL.2024 14:53:11

802.11n-ht20 Mode Left Side



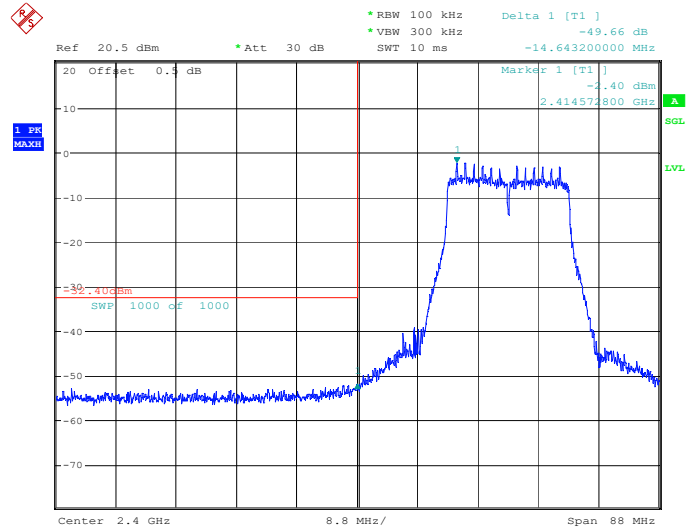
ProjectNo.:XMDN240219-08385E-RF Tester:Jason Hu
Date: 1.JUL.2024 14:55:40

802.11n-ht20 Mode Right Side



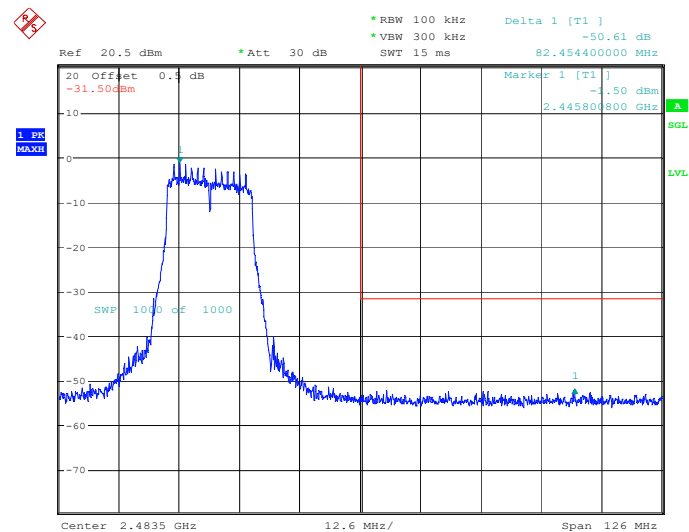
ProjectNo.:XMDN240219-08385E-RF Tester:Jason Hu
 Date: 1.JUL.2024 14:58:13

802.11n-ht40 Mode Left Side



ProjectNo.:XMDN240219-08385E-RF Tester:Jason Hu
 Date: 1.JUL.2024 14:59:54

802.11n-ht40 Mode Right Side



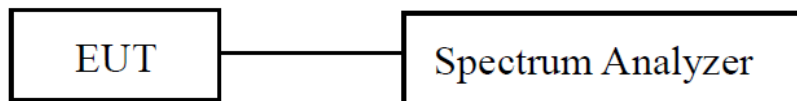
ProjectNo.:XMDN240219-08385E-RF Tester:Jason Hu
Date: 1.JUL.2024 15:02:15

FCC §15.247(e) - POWER SPECTRAL DENSITY

Applicable Standard

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm 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.

EUT Setup



Test Procedure

According to ANSI C63.10-2013 Section 11.10.2

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW $\geq [3 \times \text{RBW}]$.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

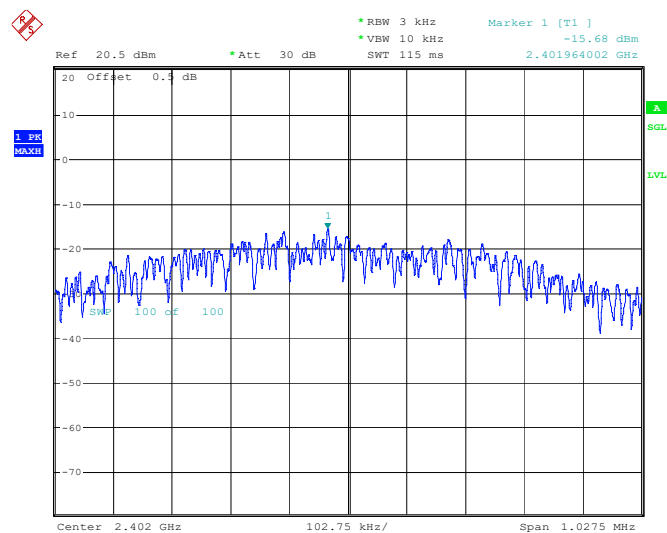
Test Data

For BLE:

Test Mode:	Transmitting	Test Engineer:	Jason Hu
Test Date:	2024-06-02	Test Voltage:	DC 12V from Adapter (AC 120V/60Hz)
Test Result:	Compliance	Environment:	Temp.: 23.0°C Humi.: 55% Atm.:100.1kPa
Test Channel	Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
Low	2402	-15.68	≤8.00
Middle	2440	-14.12	≤8.00
High	2480	-17.31	≤8.00

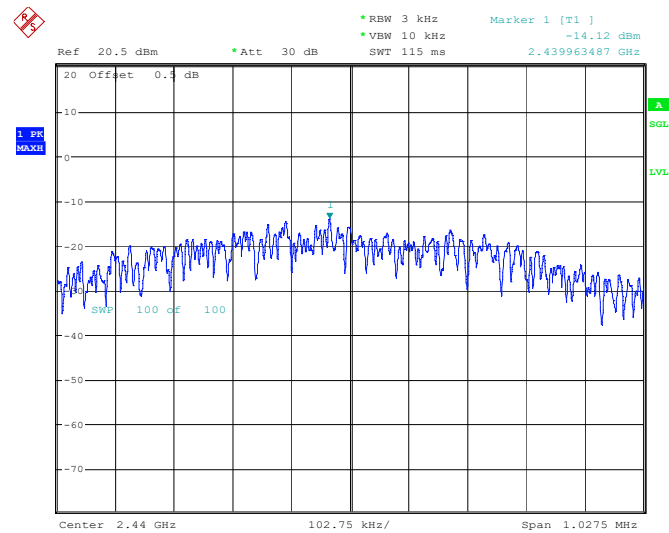
Please refer to below plots:

BLE Low Channel



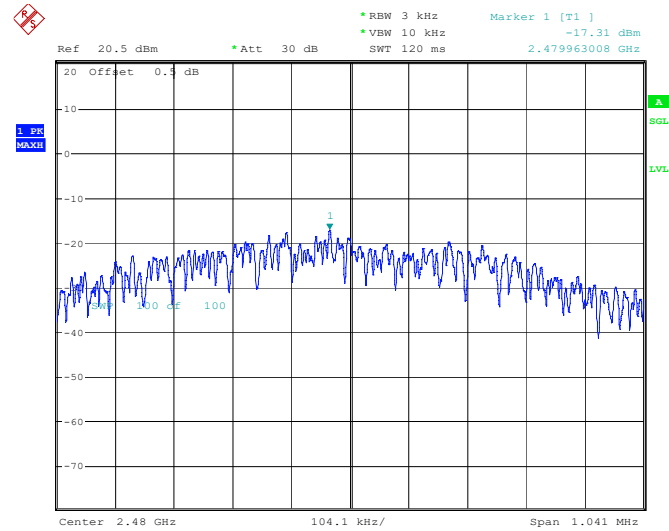
ProjectNo.:XMDN240219-08385E-RF Tester:Jason Hu
Date: 2.JUN.2024 11:04:54

BLE Middle Channel



ProjectNo.:XMDN240219-08385E-RF Tester:Jason Hu
Date: 2.JUN.2024 11:05:28

BLE High Channel



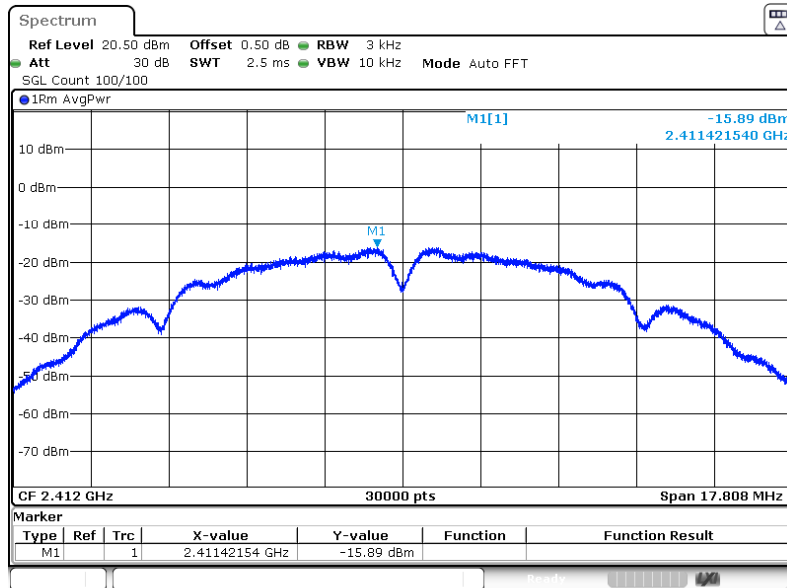
ProjectNo.:XMDN240219-08385E-RF Tester:Jason Hu
Date: 2.JUN.2024 11:06:17

For WIFI:

Test Mode:	Transmitting		Test Engineer:	Jason Hu	
Test Date:	2024-06-26		Test Voltage:	DC 12V from Adapter (AC 120V/60Hz)	
Test Result:	Compliance		Environment:	Temp.: 21.6°C Humi.: 55% Atm.: 100.1kPa	
Test Modes	Test Frequency (MHz)	Result (dBm/3kHz)	Duty Factor (dB)	Result (dBm)	Limit (dBm/3kHz)
802.11b	2412	-15.89	0.11	-15.78	8.00
	2437	-16.77	0.11	-16.66	8.00
	2462	-17.71	0.11	-17.60	8.00
802.11g	2412	-24.81	0.59	-24.22	8.00
	2437	-25.16	0.59	-24.57	8.00
	2462	-24.82	0.59	-24.23	8.00
802.11n ht20	2412	-23.72	0.63	-23.09	8.00
	2437	-24.32	0.63	-23.69	8.00
	2462	-24.08	0.63	-23.45	8.00
802.11n ht40	2422	-26.46	1.19	-25.27	8.00
	2437	-26.84	1.19	-25.65	8.00
	2452	-25.71	1.19	-24.52	8.00

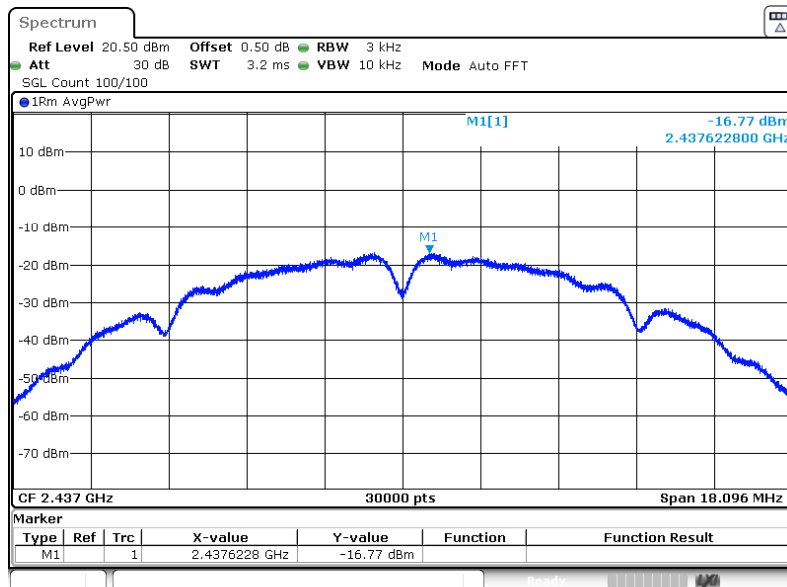
Please refer to below plots:

802.11b Mode Low Channel



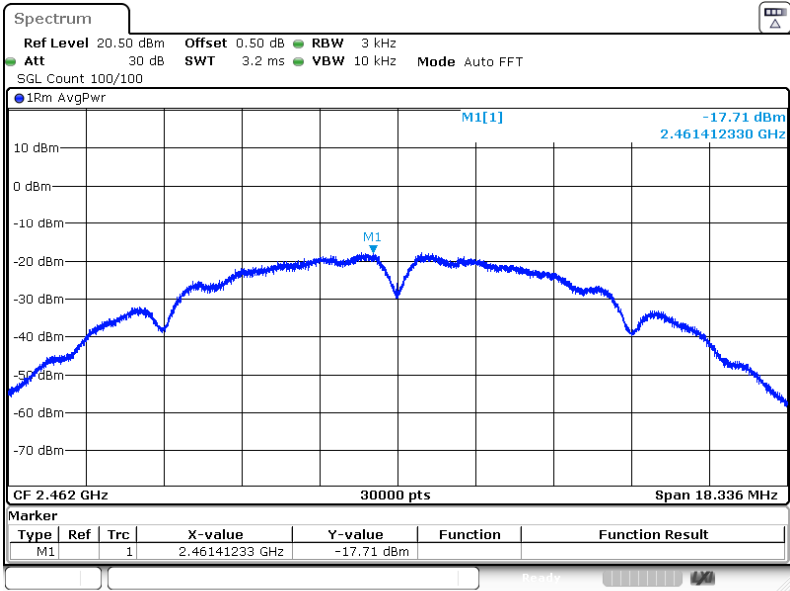
ProjectNo.:XMDN240219-08385E-RF Tester:Jason Hu
Date: 26.JUN.2024 19:05:30

802.11b Mode Middle Channel



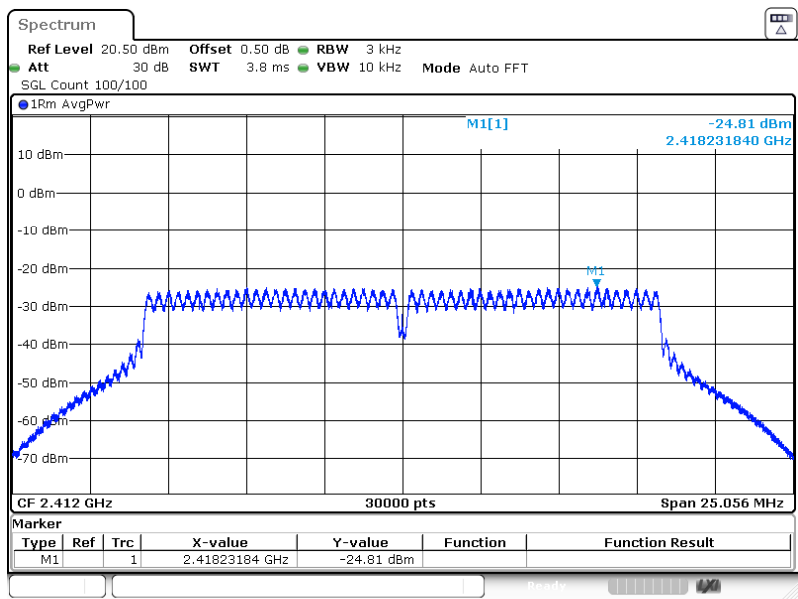
ProjectNo.:XMDN240219-08385E-RF Tester:Jason Hu
Date: 26.JUN.2024 19:07:42

802.11b Mode High Channel



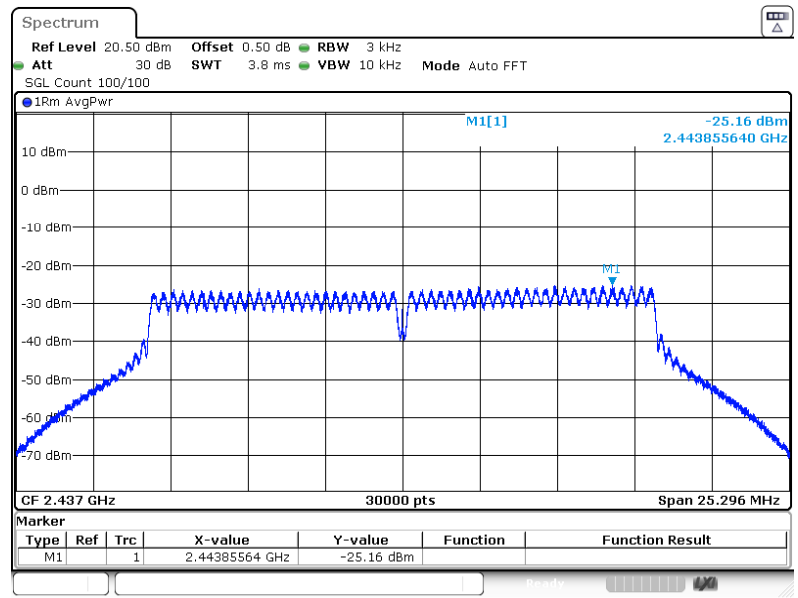
ProjectNo.:XMDN240219-08385E-RF Tester:Jason Hu
Date: 26.JUN.2024 19:10:13

802.11g Mode Low Channel



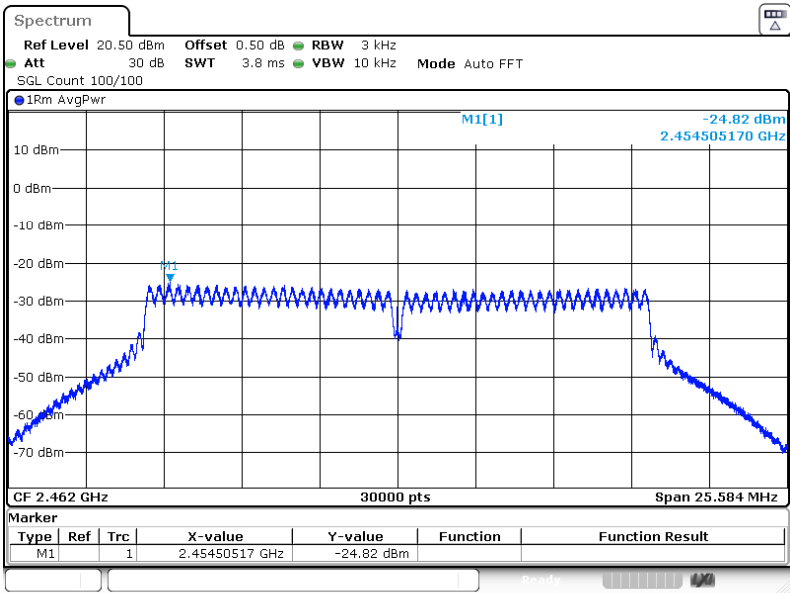
ProjectNo.:XMDN240219-08385E-RF Tester:Jason Hu
Date: 26.JUN.2024 19:12:19

802.11g Mode Middle Channel



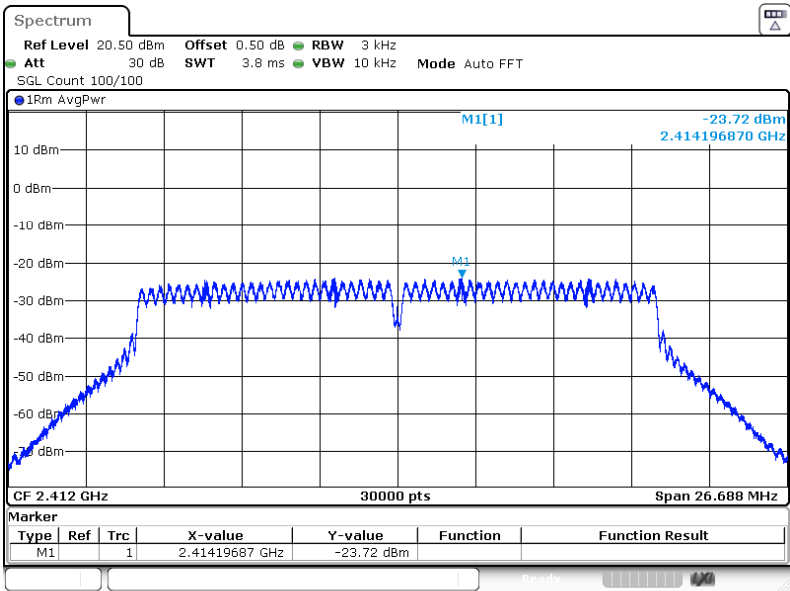
ProjectNo.:XMDN240219-08385E-RF Tester:Jason Hu
Date: 26.JUN.2024 19:14:06

802.11g Mode High Channel



ProjectNo.:XMDN240219-08385E-RF Tester:Jason Hu
Date: 26.JUN.2024 19:15:34

802.11n-ht20 Mode Low Channel



ProjectNo.:XMDN240219-08385E-RF Tester:Jason Hu
Date: 26.JUN.2024 19:17:30