

Project No.: 2407V46068E-RF

Test Mode: 11g-2462

EUT Model: M150i

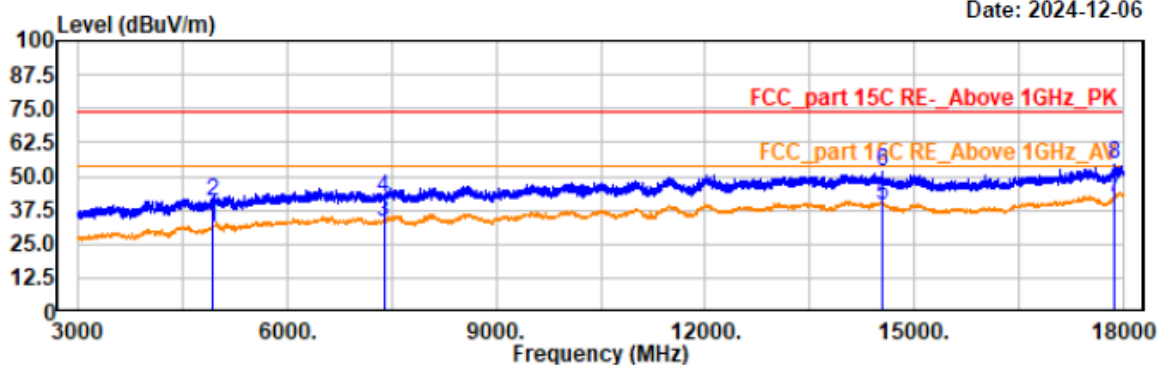
Test distance: 3m

Temp/Humi/ATM: 23.2°C/50%/100.1kPa

Tested by: Wlif Wu

Power Source: AC120V/60Hz

Date: 2024-12-06



Trace: 1

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

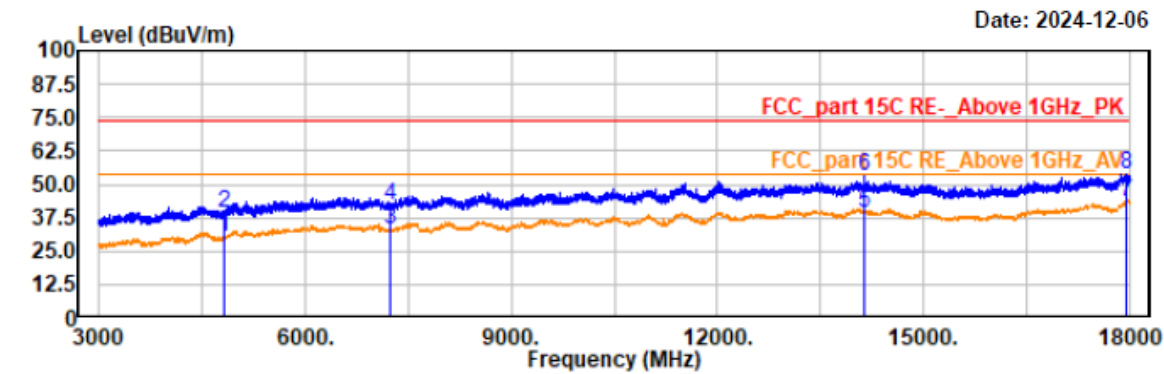
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4924.50	35.20	-4.12	31.08	54.00	22.92	vertical	Average
4924.50	44.61	-4.12	40.49	74.00	33.51	vertical	Peak
7386.00	35.02	-1.62	33.40	54.00	20.60	vertical	Average
7386.00	43.98	-1.62	42.36	74.00	31.64	vertical	Peak
14536.50	34.70	4.94	39.64	54.00	14.36	vertical	Average
14536.50	46.83	4.94	51.77	74.00	22.23	vertical	Peak
17883.00	34.77	7.53	42.30	54.00	11.70	vertical	Average
17883.00	46.83	7.53	54.36	74.00	19.64	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11n ht20 low channel with Chain 0(Ant 1) and Chain 1(Ant 2).

Project No.: 2407V46068E-RF
Test Mode: 11n20-2412
EUT Model: M150i
Test distance: 3m

Temp/Humi/ATM: 23.2°C/50%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz

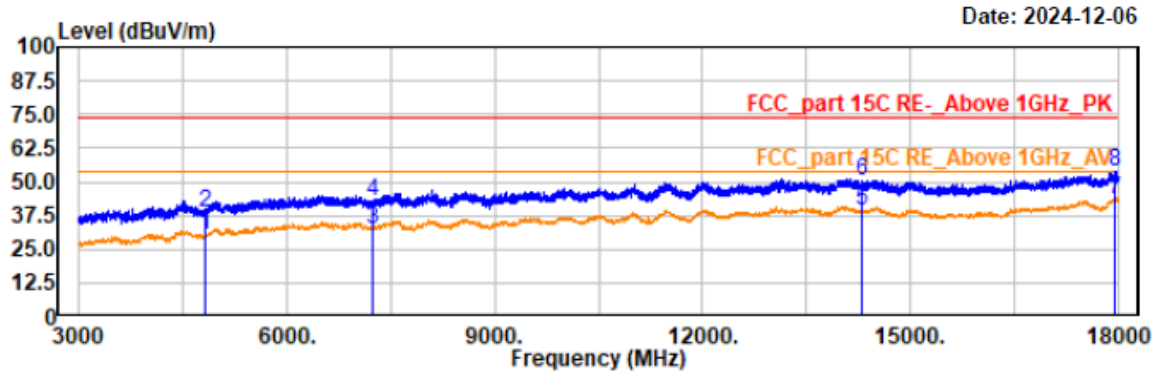


Trace: 1
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
 AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4824.00	34.43	-4.39	30.04	54.00	23.96	horizontal	Average
4824.00	43.69	-4.39	39.30	74.00	34.70	horizontal	Peak
7236.00	35.09	-1.70	33.39	54.00	20.61	horizontal	Average
7236.00	43.88	-1.70	42.18	74.00	31.82	horizontal	Peak
14127.00	34.08	5.24	39.32	54.00	14.68	horizontal	Average
14127.00	47.93	5.24	53.17	74.00	20.83	horizontal	Peak
17946.00	35.55	7.66	43.21	54.00	10.79	horizontal	Average
17946.00	46.18	7.66	53.84	74.00	20.16	horizontal	Peak

Project No.: 2407V46068E-RF
Test Mode: 11n20-2412
EUT Model: M150i
Test distance: 3m

Temp/Humi/ATM: 23.2°C/50%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



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	34.40	-4.39	30.01	54.00	23.99	vertical	Average
4824.00	43.25	-4.39	38.86	74.00	35.14	vertical	Peak
7236.00	34.32	-1.70	32.62	54.00	21.38	vertical	Average
7236.00	44.28	-1.70	42.58	74.00	31.42	vertical	Peak
14296.50	34.14	5.20	39.34	54.00	14.66	vertical	Average
14296.50	44.84	5.20	50.04	74.00	23.96	vertical	Peak
17952.00	36.01	7.67	43.68	54.00	10.32	vertical	Average
17952.00	46.38	7.67	54.05	74.00	19.95	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11n ht20 middle channel with Chain 0(Ant 1) and Chain 1(Ant 2).

Project No.: 2407V46068E-RF

Test Mode: 11n20-2437

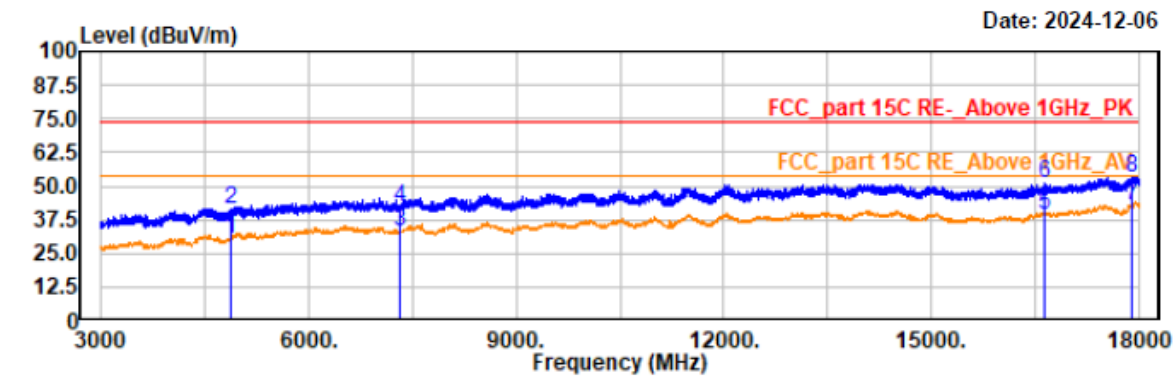
EUT Model: M150i

Test distance: 3m

Temp/Humi/ATM: 23.2°C/50%/100.1kPa

Tested by: Wlif Wu

Power Source: AC120V/60Hz



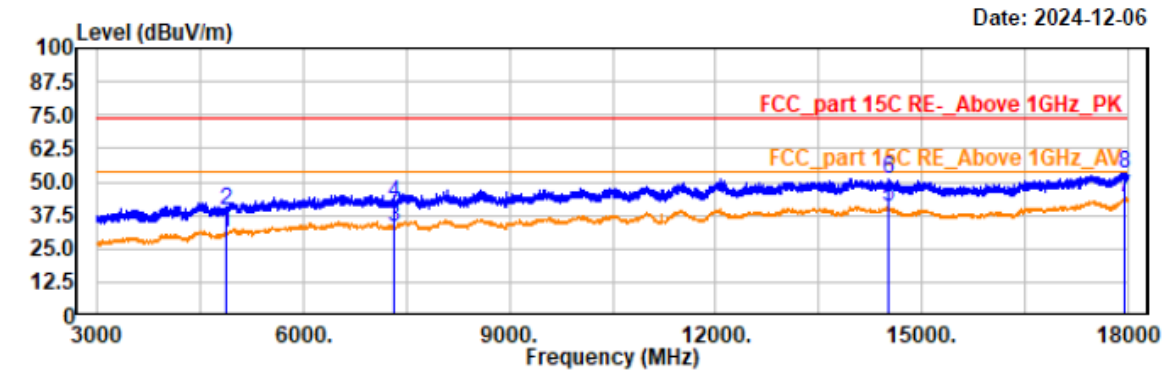
Trace: 1

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	34.88	-4.26	30.62	54.00	23.38	horizontal	Average
4873.50	45.53	-4.26	41.27	74.00	32.73	horizontal	Peak
7311.00	34.41	-1.63	32.78	54.00	21.22	horizontal	Average
7311.00	43.74	-1.63	42.11	74.00	31.89	horizontal	Peak
16636.50	35.62	3.87	39.49	54.00	14.51	horizontal	Average
16636.50	47.15	3.87	51.02	74.00	22.98	horizontal	Peak
17908.50	34.99	7.60	42.59	54.00	11.41	horizontal	Average
17908.50	45.84	7.60	53.44	74.00	20.56	horizontal	Peak

Project No.: 2407V46068E-RF
Test Mode: 11n20-2437
EUT Model: M150i
Test distance: 3m

Temp/Humi/ATM: 23.2°C/50%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



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	34.98	-4.26	30.72	54.00	23.28	vertical	Average
4873.50	43.77	-4.26	39.51	74.00	34.49	vertical	Peak
7311.00	34.90	-1.63	33.27	54.00	20.73	vertical	Average
7311.00	43.41	-1.63	41.78	74.00	32.22	vertical	Peak
14508.00	35.52	4.97	40.49	54.00	13.51	vertical	Average
14508.00	46.04	4.97	51.01	74.00	22.99	vertical	Peak
17959.50	36.40	7.67	44.07	54.00	9.93	vertical	Average
17959.50	45.74	7.67	53.41	74.00	20.59	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11n ht20 high channel with Chain 0(Ant 1) and Chain 1(Ant 2).

Project No.: 2407V46068E-RF

Test Mode: 11n20-2462

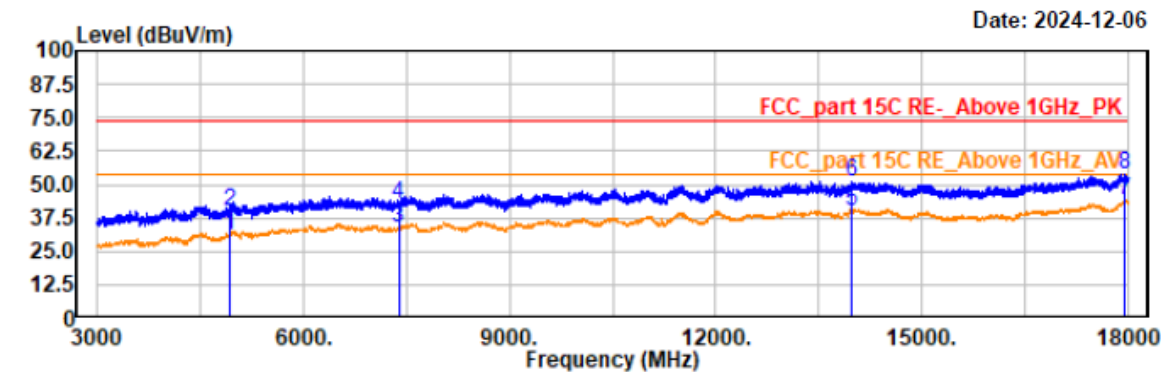
EUT Model: M150i

Test distance: 3m

Temp/Humi/ATM: 23.2°C/50%/100.1kPa

Tested by: Wlif Wu

Power Source: AC120V/60Hz



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	35.26	-4.12	31.14	54.00	22.86	horizontal	Average
4924.50	43.81	-4.12	39.69	74.00	34.31	horizontal	Peak
7386.00	35.75	-1.62	34.13	54.00	19.87	horizontal	Average
7386.00	44.04	-1.62	42.42	74.00	31.58	horizontal	Peak
13965.00	34.80	5.10	39.90	54.00	14.10	horizontal	Average
13965.00	46.08	5.10	51.18	74.00	22.82	horizontal	Peak
17961.00	36.37	7.68	44.05	54.00	9.95	horizontal	Average
17961.00	46.06	7.68	53.74	74.00	20.26	horizontal	Peak

Project No.: 2407V46068E-RF

Test Mode: 11n20-2462

EUT Model: M150i

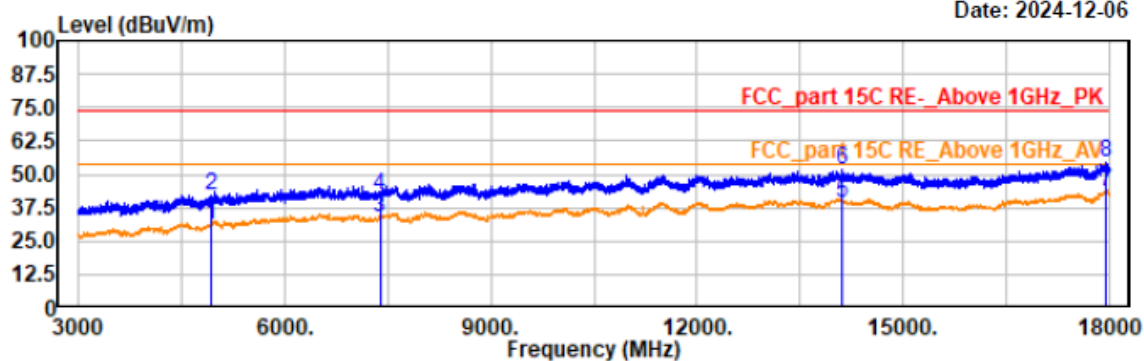
Test distance: 3m

Temp/Humi/ATM: 23.2°C/50%/100.1kPa

Tested by: Wlif Wu

Power Source: AC120V/60Hz

Date: 2024-12-06



Trace: 1

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

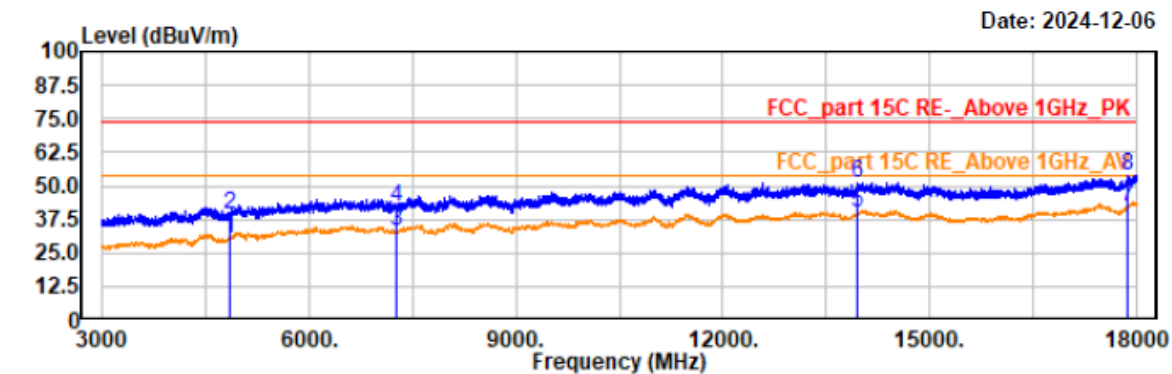
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4924.50	35.46	-4.12	31.34	54.00	22.66	vertical	Average
4924.50	46.17	-4.12	42.05	74.00	31.95	vertical	Peak
7386.00	35.44	-1.62	33.82	54.00	20.18	vertical	Average
7386.00	43.79	-1.62	42.17	74.00	31.83	vertical	Peak
14103.00	34.40	5.22	39.62	54.00	14.38	vertical	Average
14103.00	46.24	5.22	51.46	74.00	22.54	vertical	Peak
17959.50	35.83	7.67	43.50	54.00	10.50	vertical	Average
17959.50	46.72	7.67	54.39	74.00	19.61	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11n ht40 low channel with Chain 0(Ant 1) and Chain 1(Ant 2).

Project No.: 2407V46068E-RF
Test Mode: 11n40-2422
EUT Model: M150i
Test distance: 3m

Temp/Humi/ATM: 23.2°C/50%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



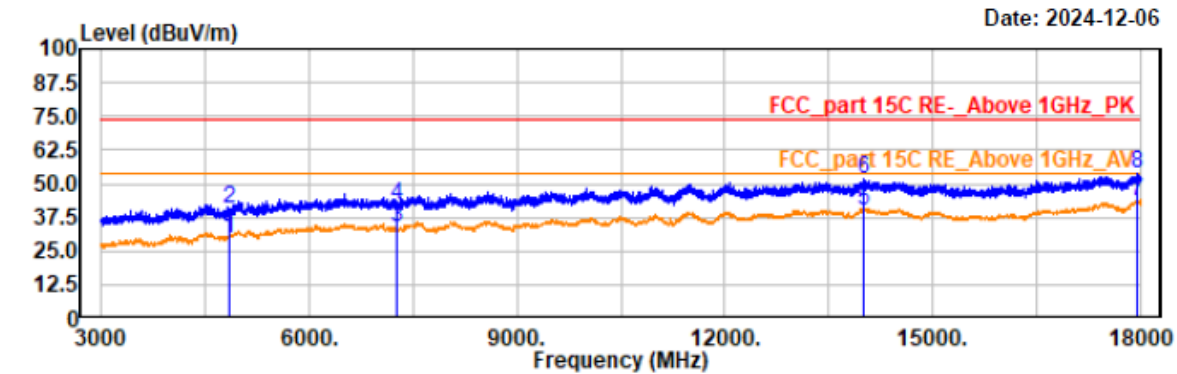
Trace: 1

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	34.40	-4.34	30.06	54.00	23.94	horizontal	Average
4843.50	43.92	-4.34	39.58	74.00	34.42	horizontal	Peak
7266.00	34.54	-1.66	32.88	54.00	21.12	horizontal	Average
7266.00	43.52	-1.66	41.86	74.00	32.14	horizontal	Peak
13957.50	34.71	5.10	39.81	54.00	14.19	horizontal	Average
13957.50	46.15	5.10	51.25	74.00	22.75	horizontal	Peak
17862.00	34.62	7.46	42.08	54.00	11.92	horizontal	Average
17862.00	46.21	7.46	53.67	74.00	20.33	horizontal	Peak

Project No.: 2407V46068E-RF
Test Mode: 11n40-2422
EUT Model: M150i
Test distance: 3m

Temp/Humi/ATM: 23.2°C/50%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



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	34.33	-4.34	29.99	54.00	24.01	vertical	Average
4843.50	44.94	-4.34	40.60	74.00	33.40	vertical	Peak
7266.00	35.20	-1.66	33.54	54.00	20.46	vertical	Average
7266.00	43.77	-1.66	42.11	74.00	31.89	vertical	Peak
14001.00	34.89	5.09	39.98	54.00	14.02	vertical	Average
14001.00	46.61	5.09	51.70	74.00	22.30	vertical	Peak
17947.50	35.64	7.66	43.30	54.00	10.70	vertical	Average
17947.50	45.92	7.66	53.58	74.00	20.42	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11n ht40 middle channel with Chain 0(Ant 1) and Chain 1(Ant 2).

Project No.: 2407V46068E-RF

Test Mode: 11n40-2437

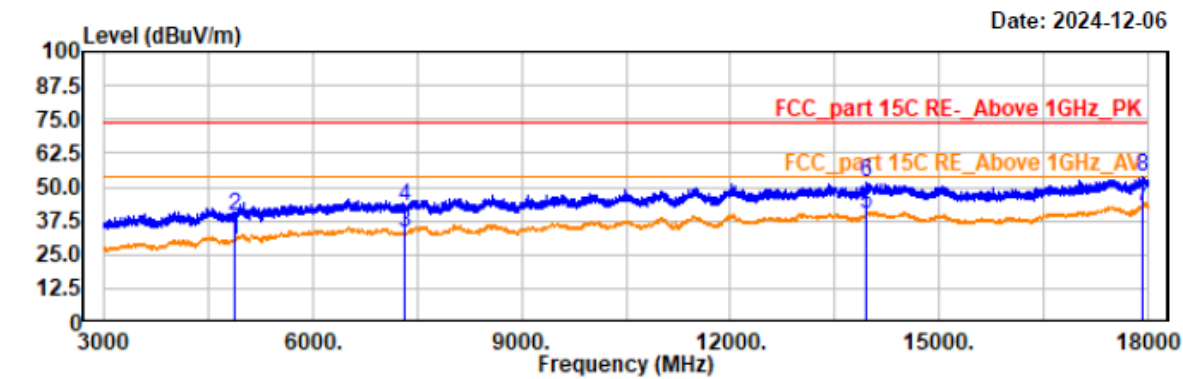
EUT Model: M150i

Test distance: 3m

Temp/Humi/ATM: 23.2°C/50%/100.1kPa

Tested by: Wlif Wu

Power Source: AC120V/60Hz



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	34.70	-4.26	30.44	54.00	23.56	horizontal	Average
4873.50	43.43	-4.26	39.17	74.00	34.83	horizontal	Peak
7311.00	34.94	-1.63	33.31	54.00	20.69	horizontal	Average
7311.00	44.16	-1.63	42.53	74.00	31.47	horizontal	Peak
13962.00	34.72	5.10	39.82	54.00	14.18	horizontal	Average
13962.00	46.62	5.10	51.72	74.00	22.28	horizontal	Peak
17913.00	35.01	7.60	42.61	54.00	11.39	horizontal	Average
17913.00	45.93	7.60	53.53	74.00	20.47	horizontal	Peak

Project No.: 2407V46068E-RF

Test Mode: 11n40-2437

EUT Model: M150i

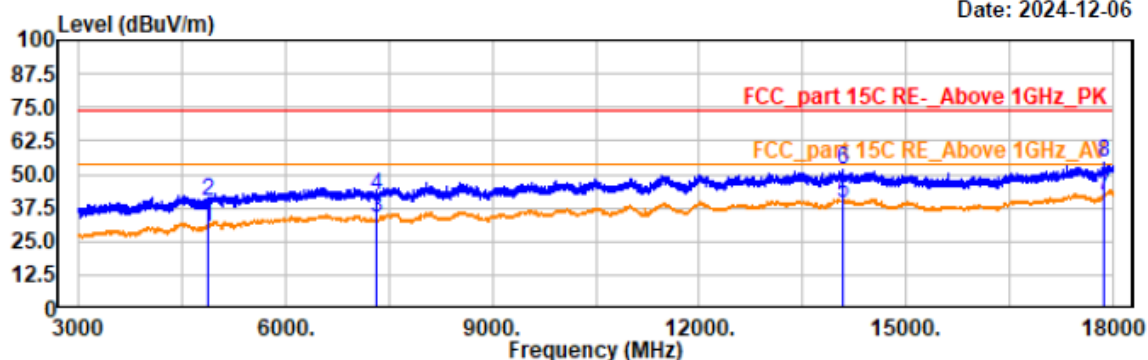
Test distance: 3m

Temp/Humi/ATM: 23.2°C/50%/100.1kPa

Tested by: Wlif Wu

Power Source: AC120V/60Hz

Date: 2024-12-06



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	34.72	-4.26	30.46	54.00	23.54	vertical	Average
4873.50	44.13	-4.26	39.87	74.00	34.13	vertical	Peak
7311.00	35.22	-1.63	33.59	54.00	20.41	vertical	Average
7311.00	43.95	-1.63	42.32	74.00	31.68	vertical	Peak
14089.50	34.42	5.22	39.64	54.00	14.36	vertical	Average
14089.50	46.16	5.22	51.38	74.00	22.62	vertical	Peak
17875.50	34.48	7.50	41.98	54.00	12.02	vertical	Average
17875.50	46.74	7.50	54.24	74.00	19.76	vertical	Peak

EUT operation mode: Transmitting in Wifi 802.11n ht40 high channel with Chain 0(Ant 1) and Chain 1(Ant 2).

Project No.: 2407V46068E-RF

Test Mode: 11n40-2452

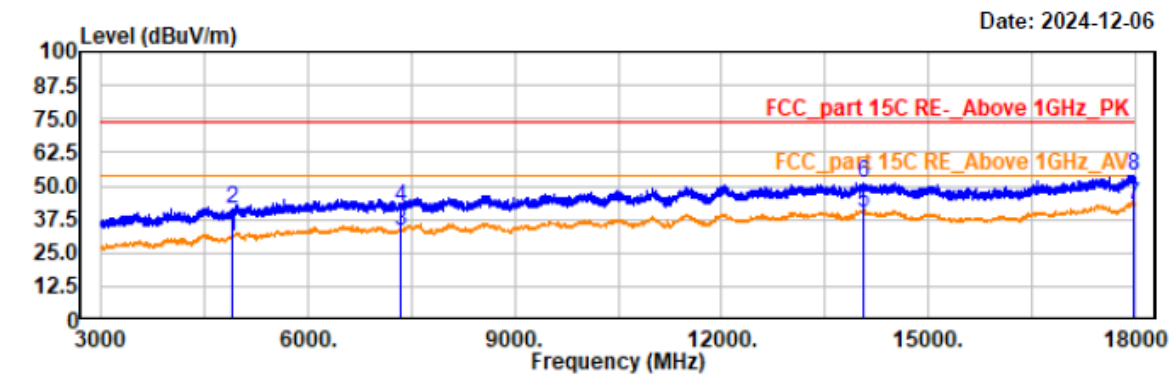
EUT Model: M150i

Test distance: 3m

Temp/Humi/ATM: 23.2°C/50%/100.1kPa

Tested by: Wlif Wu

Power Source: AC120V/60Hz



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	35.26	-4.18	31.08	54.00	22.92	horizontal	Average
4903.50	45.42	-4.18	41.24	74.00	32.76	horizontal	Peak
7356.00	34.57	-1.59	32.98	54.00	21.02	horizontal	Average
7356.00	43.96	-1.59	42.37	74.00	31.63	horizontal	Peak
14070.00	34.93	5.18	40.11	54.00	13.89	horizontal	Average
14070.00	45.88	5.18	51.06	74.00	22.94	horizontal	Peak
17991.00	35.30	7.72	43.02	54.00	10.98	horizontal	Average
17991.00	46.20	7.72	53.92	74.00	20.08	horizontal	Peak

Project No.: 2407V46068E-RF

Test Mode: 11n40-2452

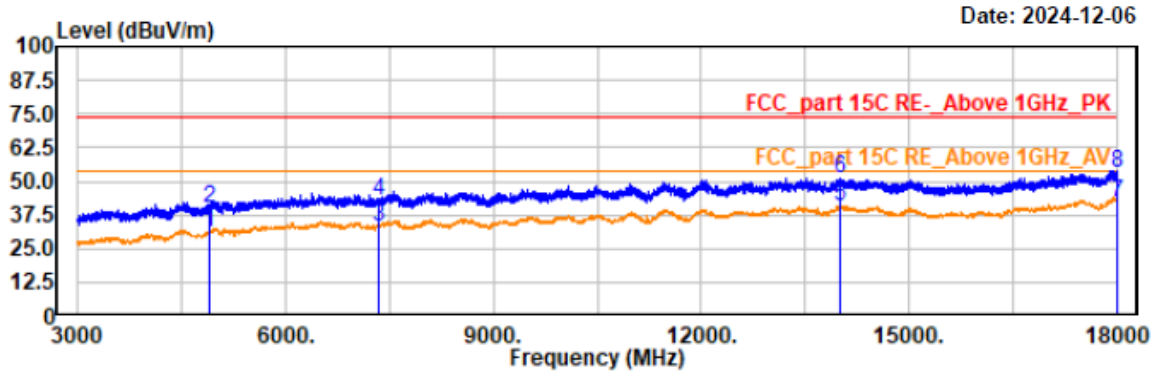
EUT Model: M150i

Test distance: 3m

Temp/Humi/ATM: 23.2°C/50%/100.1kPa

Tested by: Wlif Wu

Power Source: AC120V/60Hz



Trace: 1

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

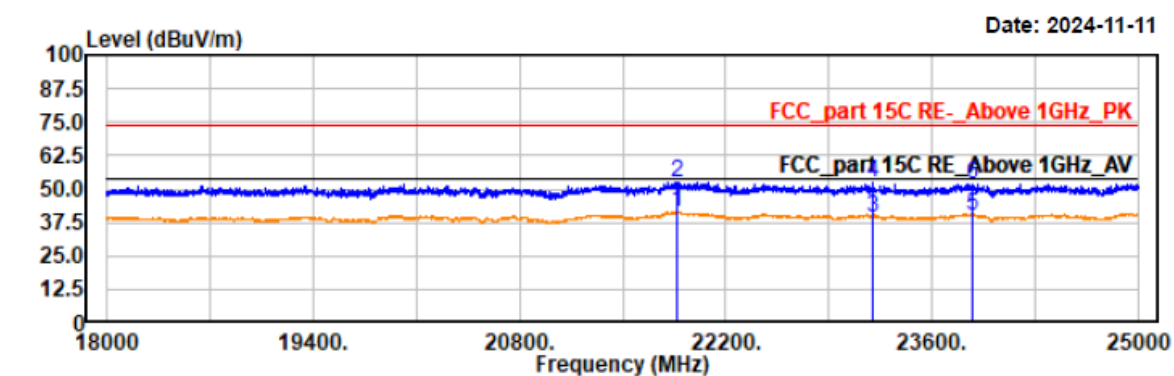
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4903.50	35.39	-4.18	31.21	54.00	22.79	vertical	Average
4903.50	44.28	-4.18	40.10	74.00	33.90	vertical	Peak
7356.00	34.51	-1.59	32.92	54.00	21.08	vertical	Average
7356.00	44.25	-1.59	42.66	74.00	31.34	vertical	Peak
14011.50	35.49	5.11	40.60	54.00	13.40	vertical	Average
14011.50	46.10	5.11	51.21	74.00	22.79	vertical	Peak
17999.00	34.65	7.74	42.39	54.00	11.61	vertical	Average
17999.00	45.38	7.74	53.12	74.00	20.88	vertical	Peak

5) 18GHz~25GHz*EUT operation mode: Transmitting in Wifi 802.11n ht40 low channel (Worst Case)*

Project No.: 2407V46068E-RF
Test Mode: 802.11n40 2422MHz
EUT Model: M150i
Test distance: 1m

Temp/Humi/ATM: 23.5°C/54%/100.5kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

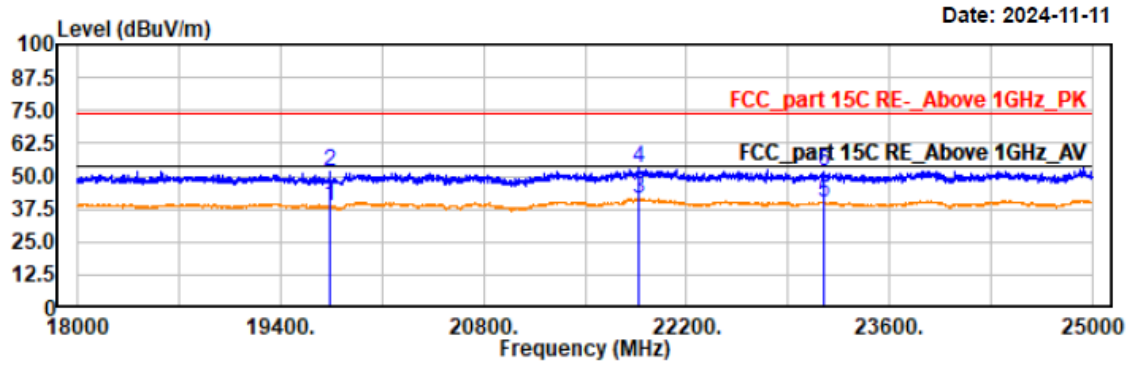


Trace: 1

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
21874.20	39.62	1.69	41.31	54.00	12.69	horizontal	Average
21874.20	50.57	1.69	52.26	74.00	21.74	horizontal	Peak
23203.00	38.12	1.36	39.48	54.00	14.52	horizontal	Average
23203.00	50.96	1.36	52.32	74.00	21.68	horizontal	Peak
23880.60	38.08	1.80	39.88	54.00	14.12	horizontal	Average
23880.60	50.25	1.80	52.05	74.00	21.95	horizontal	Peak

Project No.: 2407V46068E-RF
Test Mode: 802.11n40 2422MHz
EUT Model: M150i
Test distance: 1m

Temp/Humi/ATM: 23.5°C/54%/100.5kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
19740.20	38.47	-0.17	38.30	54.00	15.70	vertical	Average
19740.20	51.65	-0.17	51.48	74.00	22.52	vertical	Peak
21865.40	39.62	1.62	41.24	54.00	12.76	vertical	Average
21865.40	51.48	1.62	53.10	74.00	20.90	vertical	Peak
23145.80	38.57	1.38	39.95	54.00	14.05	vertical	Average
23145.80	50.34	1.38	51.72	74.00	22.28	vertical	Peak

Restricted Bands Emissions:

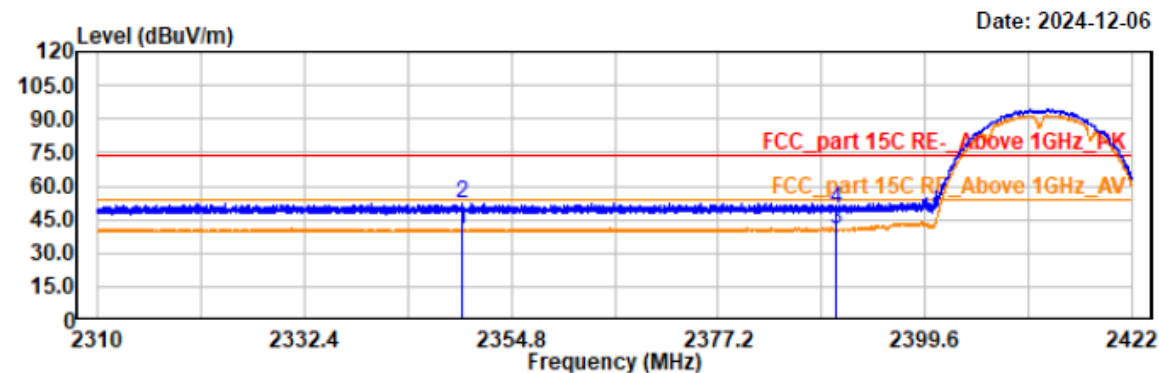
Pre-Scan with Wi-Fi 802.11b, 802.11g, 802.11n, 802.11nHT20, 802.11nHT40 modes, the worst case is recorded.

Note:
Factor (dB/m) =Antenna Factor (dB/m) + Cable Loss (dB) - Amplifier Gain (dB)
Level (dBμV/m) = Reading (dBμV) + Factor (dB/m)
Margin (dB) = Limit (dBμV/m) –Level (dBμV/m)

Chain 0(Ant 1):

Project No.: 2407V46068E-RF
Test Mode: 11b-2412
EUT Model: M150i
Test distance: 3m

Temp/Humi/ATM: 23.2°C/50%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



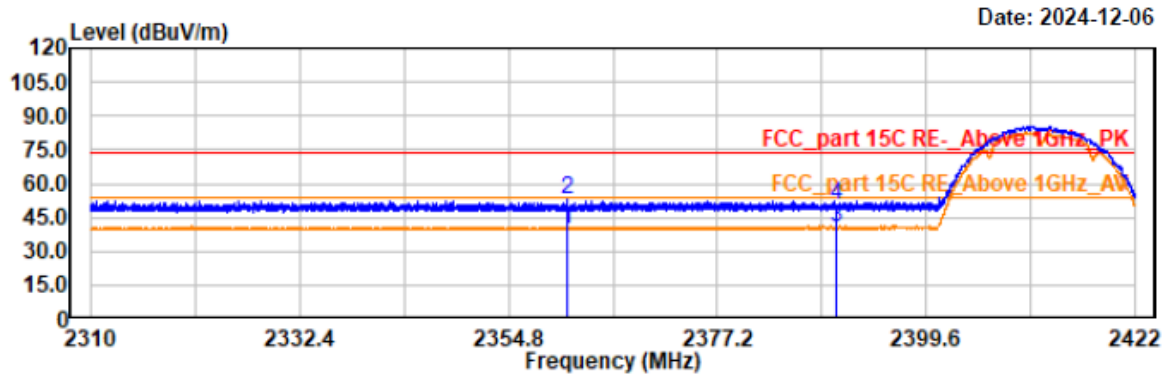
Trace: 1

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
2349.46	35.42	5.17	40.59	54.00	13.41	horizontal	Average
2349.46	47.27	5.17	52.44	74.00	21.56	horizontal	Peak
2390.00	35.26	5.37	40.63	54.00	13.37	horizontal	Average
2390.00	44.32	5.37	49.69	74.00	24.31	horizontal	Peak

Project No.: 2407V46068E-RF
 Test Mode: 11b-2412
 EUT Model: M150i
 Test distance: 3m

Temp/Humi/ATM: 23.2°C/50%/100.1kPa
 Tested by: Wlif Wu
 Power Source: AC120V/60Hz



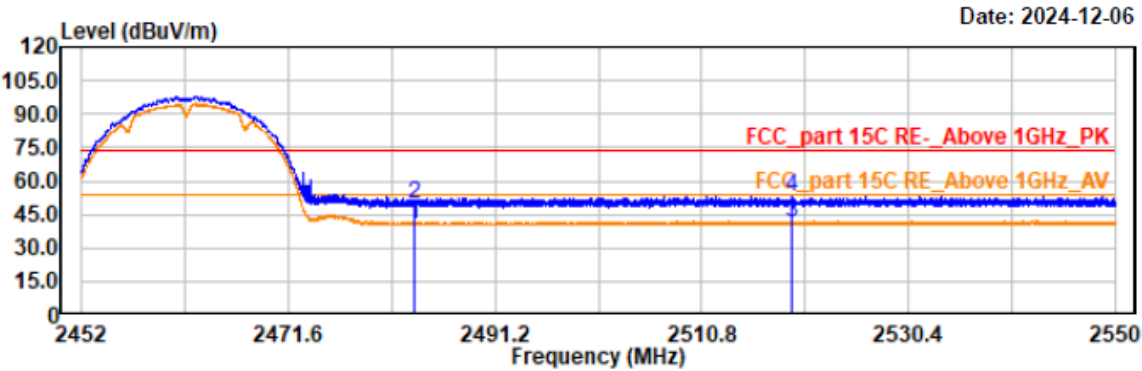
Trace: 1

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
2361.13	34.86	5.21	40.07	54.00	13.93	vertical	Average
2361.13	47.43	5.21	52.64	74.00	21.36	vertical	Peak
2390.00	35.20	5.37	40.57	54.00	13.43	vertical	Average
2390.00	44.78	5.37	50.15	74.00	23.85	vertical	Peak

Project No.: 2407V46068E-RF
Test Mode: 11b-2462
EUT Model: M150i
Test distance: 3m

Temp/Humi/ATM: 23.2°C/50%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz

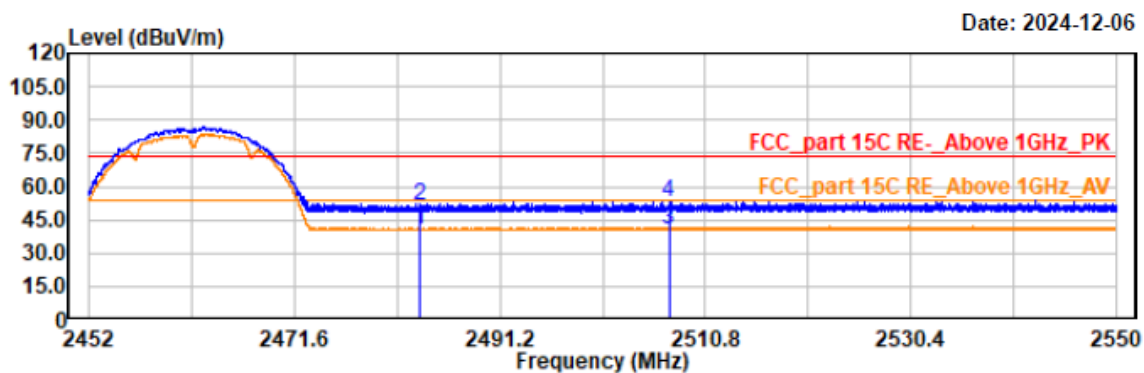


Trace: 1
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	34.79	5.83	40.62	54.00	13.38	horizontal	Average
2483.50	44.22	5.83	50.05	74.00	23.95	horizontal	Peak
2519.26	35.24	5.94	41.18	54.00	12.82	horizontal	Average
2519.26	47.05	5.94	52.99	74.00	21.01	horizontal	Peak

Project No.: 2407V46068E-RF
Test Mode: 11b-2462
EUT Model: M150i
Test distance: 3m

Temp/Humi/ATM: 23.2°C/50%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Trace: 1

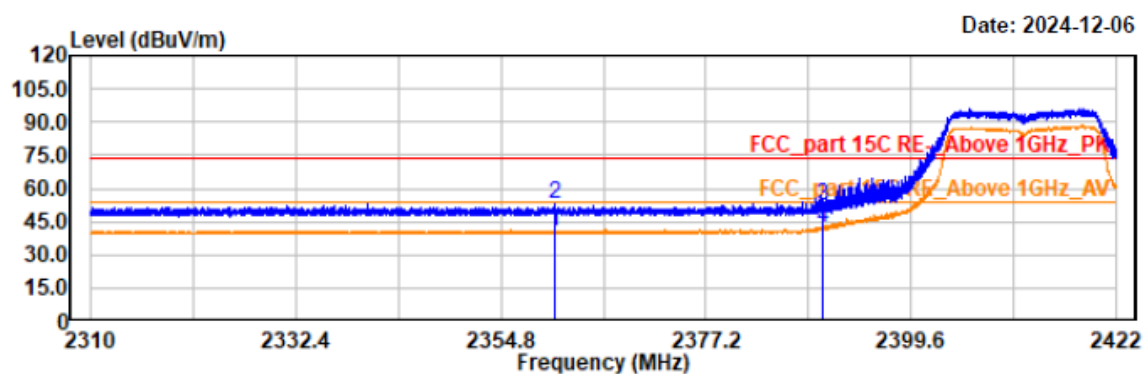
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

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	35.00	5.83	40.83	54.00	13.17	vertical	Average
2483.50	45.30	5.83	51.13	74.00	22.87	vertical	Peak
2507.32	34.98	5.92	40.90	54.00	13.10	vertical	Average
2507.32	47.34	5.92	53.26	74.00	20.74	vertical	Peak

Project No.: 2407V46068E-RF
Test Mode: 11g-2412
EUT Model: M150i
Test distance: 3m

Temp/Humi/ATM: 23.2°C/50%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



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
2360.66	34.96	5.21	40.17	54.00	13.83	horizontal	Average
2360.66	47.46	5.21	52.67	74.00	21.33	horizontal	Peak
2390.00	46.55	5.37	51.92	74.00	22.08	horizontal	Peak
2390.00	36.55	5.37	41.92	54.00	12.08	horizontal	Average

Project No.: 2407V46068E-RF

Test Mode: 11g-2412

EUT Model: M150i

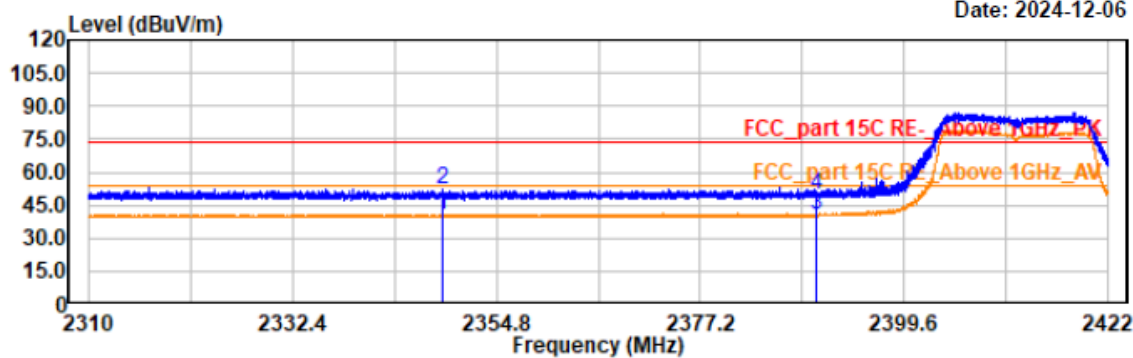
Test distance: 3m

Temp/Humi/ATM: 23.2°C/50%/100.1kPa

Tested by: Wlif Wu

Power Source: AC120V/60Hz

Date: 2024-12-06



Trace: 1

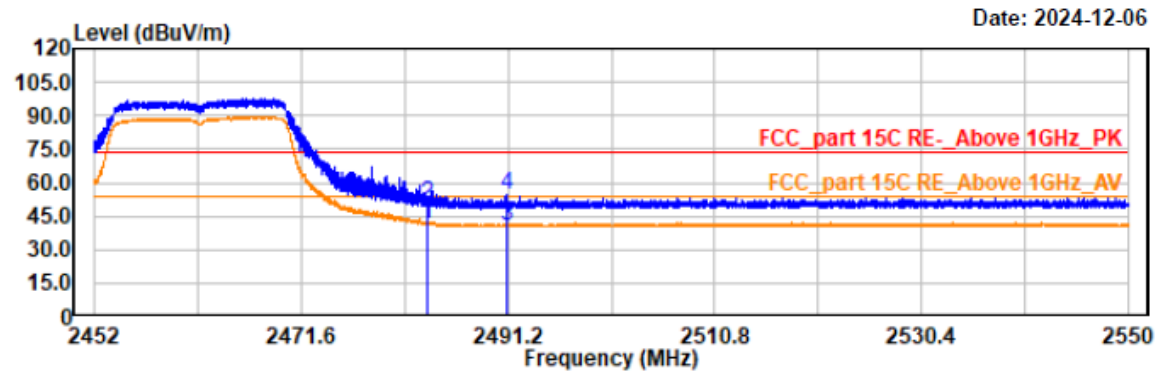
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

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

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2348.81	35.44	5.17	40.61	54.00	13.39	vertical	Average
2348.81	46.57	5.17	51.74	74.00	22.26	vertical	Peak
2390.00	35.20	5.37	40.57	54.00	13.43	vertical	Average
2390.00	44.33	5.37	49.70	74.00	24.30	vertical	Peak

Project No.: 2407V46068E-RF
Test Mode: 11g-2462
EUT Model: M150i
Test distance: 3m

Temp/Humi/ATM: 23.2°C/50%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



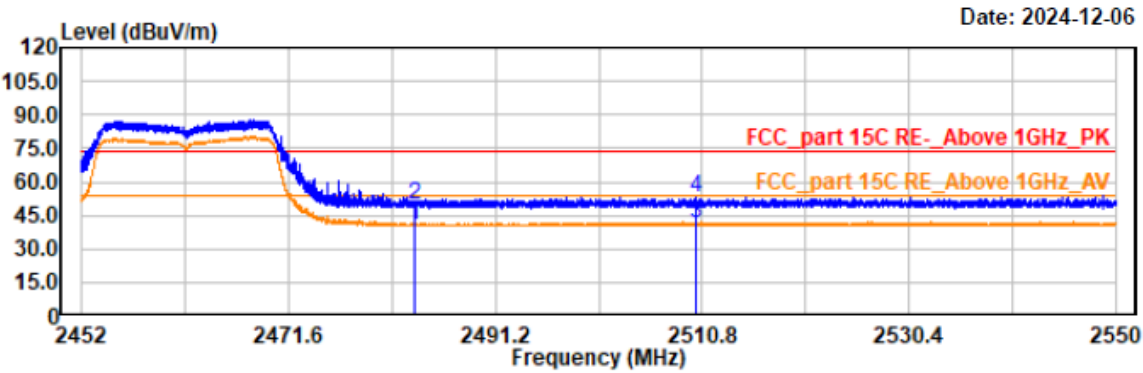
Trace: 1

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	35.79	5.83	41.62	54.00	12.38	horizontal	Average
2483.50	44.98	5.83	50.81	74.00	23.19	horizontal	Peak
2491.03	34.93	5.87	40.80	54.00	13.20	horizontal	Average
2491.03	49.03	5.87	54.90	74.00	19.10	horizontal	Peak

Project No.: 2407V46068E-RF
Test Mode: 11g-2462
EUT Model: M150i
Test distance: 3m

Temp/Humi/ATM: 23.2°C/50%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



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	34.93	5.83	40.76	54.00	13.24	vertical	Average
2483.50	43.94	5.83	49.77	74.00	24.23	vertical	Peak
2510.25	35.12	5.93	41.05	54.00	12.95	vertical	Average
2510.25	47.13	5.93	53.06	74.00	20.94	vertical	Peak

Chain 1(Ant 2):

Project No.: 2407V46068E-RF

Test Mode: 11b-2412

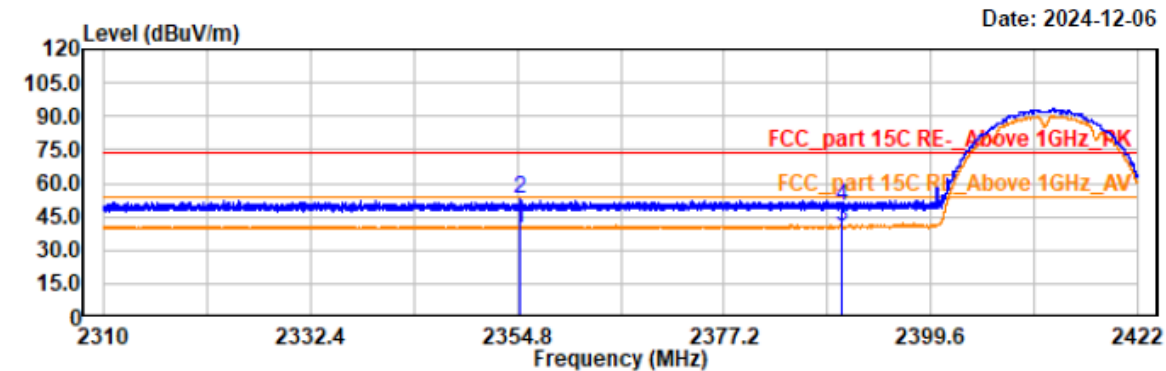
EUT Model: M150i

Test distance: 3m

Temp/Humi/ATM: 23.2°C/50%/100.1kPa

Tested by: Wlif Wu

Power Source: AC120V/60Hz



Trace: 1

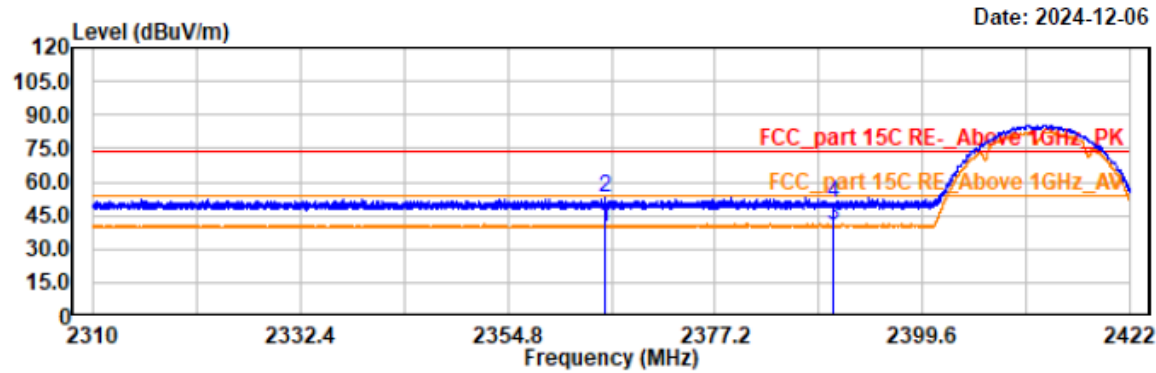
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

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

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2354.99	34.82	5.19	40.01	54.00	13.99	horizontal	Average
2354.99	47.46	5.19	52.65	74.00	21.35	horizontal	Peak
2390.00	34.93	5.37	40.30	54.00	13.70	horizontal	Average
2390.00	44.12	5.37	49.49	74.00	24.51	horizontal	Peak

Project No.: 2407V46068E-RF
Test Mode: 11b-2412
EUT Model: M150i
Test distance: 3m

Temp/Humi/ATM: 23.2°C/50%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Trace: 1

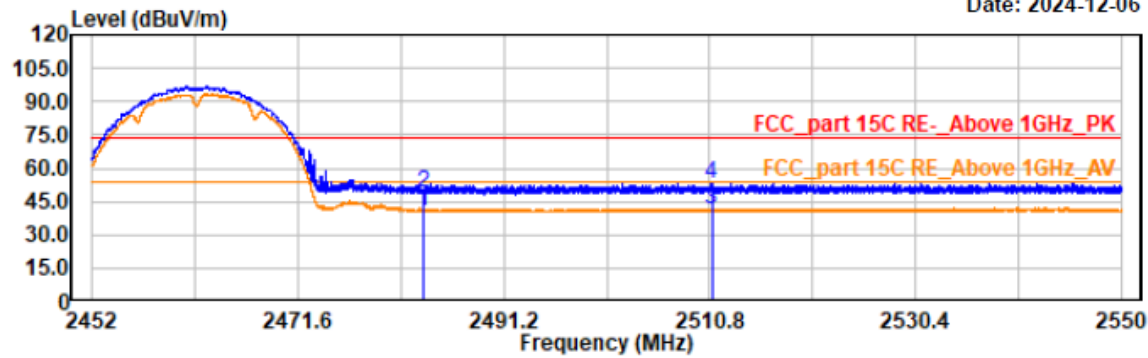
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2365.23	34.80	5.24	40.04	54.00	13.96	vertical	Average
2365.23	47.41	5.24	52.65	74.00	21.35	vertical	Peak
2390.00	34.91	5.37	40.28	54.00	13.72	vertical	Average
2390.00	45.02	5.37	50.39	74.00	23.61	vertical	Peak

Project No.: 2407V46068E-RF
Test Mode: 11b-2462
EUT Model: M150i
Test distance: 3m

Temp/Humi/ATM: 23.2°C/50%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz

Date: 2024-12-06



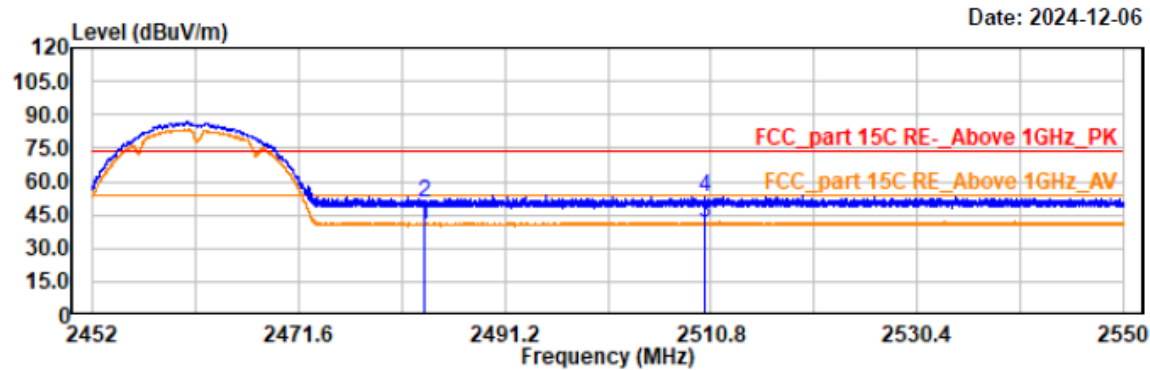
Trace: 1

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	34.83	5.83	40.66	54.00	13.34	horizontal	Average
2483.50	43.35	5.83	49.18	74.00	24.82	horizontal	Peak
2511.01	35.44	5.93	41.37	54.00	12.63	horizontal	Average
2511.01	47.31	5.93	53.24	74.00	20.76	horizontal	Peak

Project No.: 2407V46068E-RF
Test Mode: 11b-2462
EUT Model: M150i
Test distance: 3m

Temp/Humi/ATM: 23.2°C/50%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



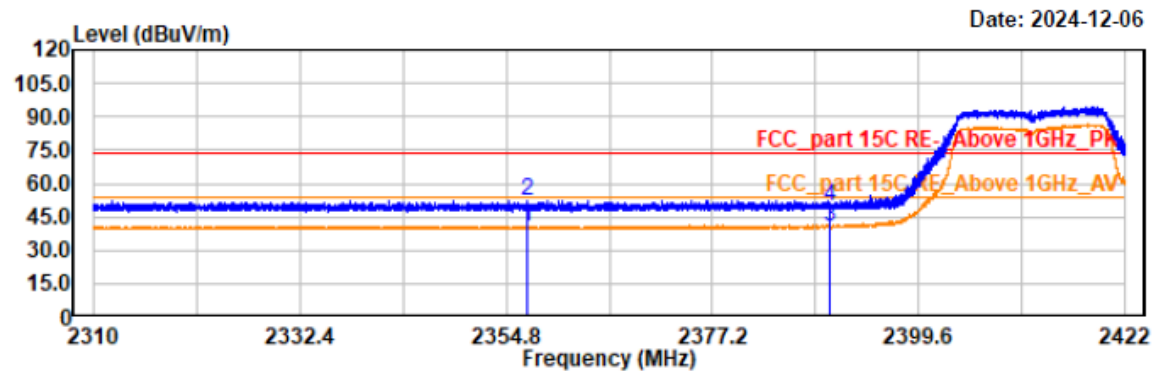
Trace: 1

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	34.61	5.83	40.44	54.00	13.56	vertical	Average
2483.50	44.72	5.83	50.55	74.00	23.45	vertical	Peak
2510.29	35.06	5.93	40.99	54.00	13.01	vertical	Average
2510.29	47.34	5.93	53.27	74.00	20.73	vertical	Peak

Project No.: 2407V46068E-RF
Test Mode: 11g-2412
EUT Model: M150i
Test distance: 3m

Temp/Humi/ATM: 23.2°C/50%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



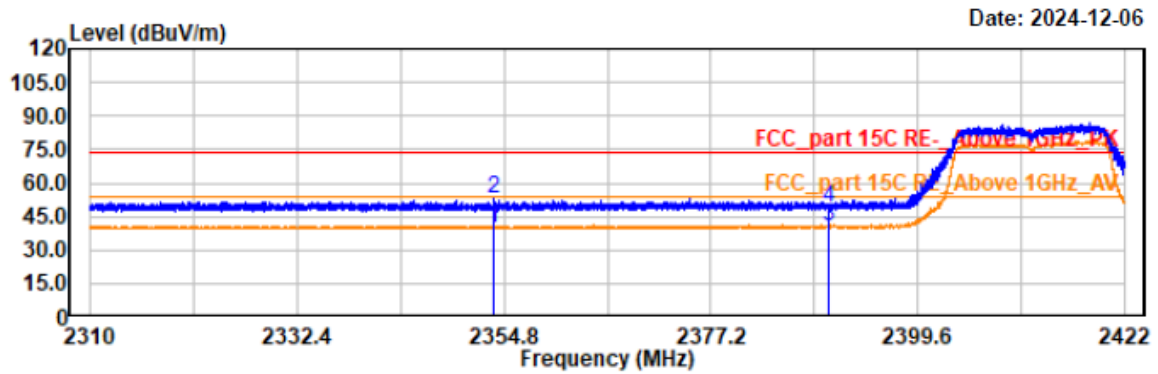
Trace: 1

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
2357.01	35.28	5.20	40.48	54.00	13.52	horizontal	Average
2357.01	46.93	5.20	52.13	74.00	21.87	horizontal	Peak
2390.00	35.38	5.37	40.75	54.00	13.25	horizontal	Average
2390.00	43.92	5.37	49.29	74.00	24.71	horizontal	Peak

Project No.: 2407V46068E-RF
Test Mode: 11g-2412
EUT Model: M150i
Test distance: 3m

Temp/Humi/ATM: 23.2°C/50%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



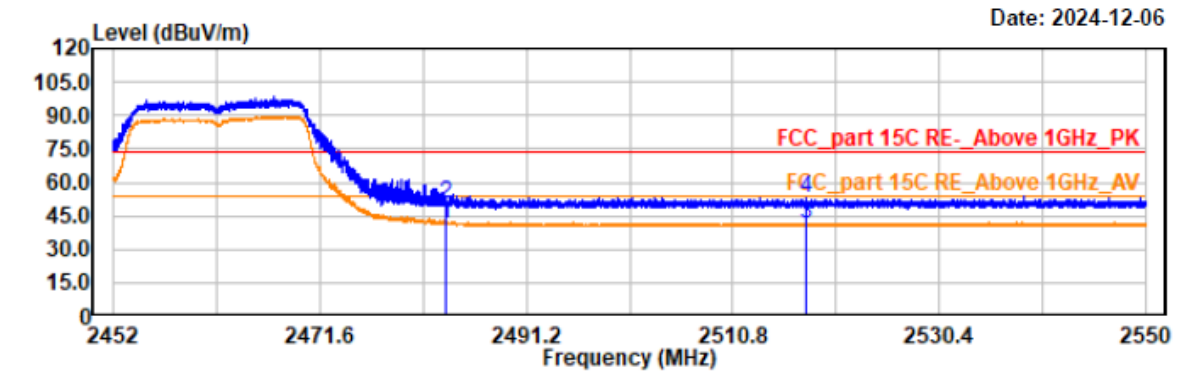
Trace: 1

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
2353.66	34.77	5.18	39.95	54.00	14.05	vertical	Average
2353.66	47.55	5.18	52.73	74.00	21.27	vertical	Peak
2390.00	34.80	5.37	40.17	54.00	13.83	vertical	Average
2390.00	43.67	5.37	49.04	74.00	24.96	vertical	Peak

Project No.: 2407V46068E-RF
Test Mode: 11g-2462
EUT Model: M150i
Test distance: 3m

Temp/Humi/ATM: 23.2°C/50%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz

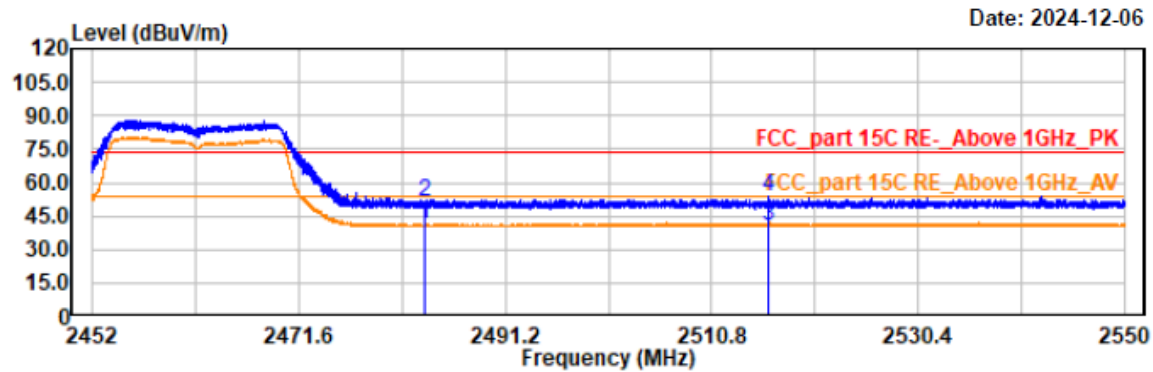


Trace: 1
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	35.93	5.83	41.76	54.00	12.24	horizontal	Average
2483.50	44.38	5.83	50.21	74.00	23.79	horizontal	Peak
2517.70	35.18	5.94	41.12	54.00	12.88	horizontal	Average
2517.70	46.99	5.94	52.93	74.00	21.07	horizontal	Peak

Project No.: 2407V46068E-RF
Test Mode: 11g-2462
EUT Model: M150i
Test distance: 3m

Temp/Humi/ATM: 23.2°C/50%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



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	35.14	5.83	40.97	54.00	13.03	vertical	Average
2483.50	45.28	5.83	51.11	74.00	22.89	vertical	Peak
2516.15	35.02	5.93	40.95	54.00	13.05	vertical	Average
2516.15	47.97	5.93	53.90	74.00	20.10	vertical	Peak

Chain 0(Ant 1) and Chain 1(Ant 2):

Project No.: 2407V46068E-RF

Test Mode: 11n20-2412

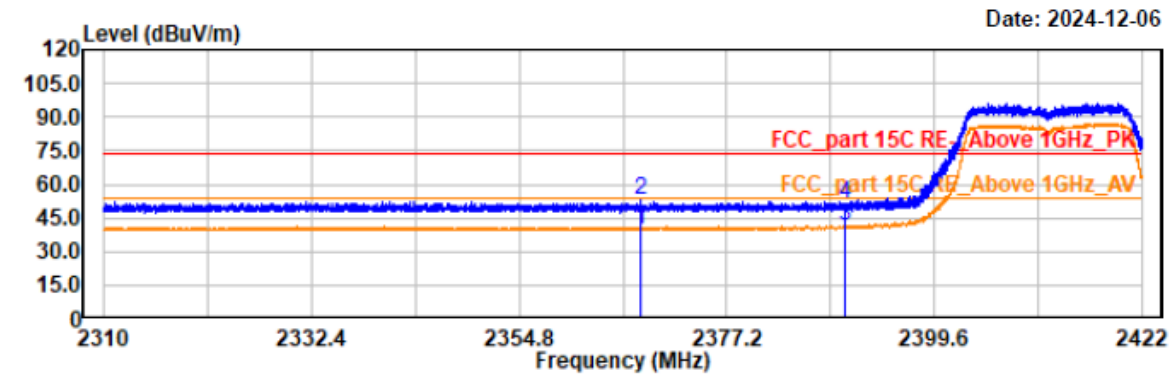
EUT Model: M150i

Test distance: 3m

Temp/Humi/ATM: 23.2°C/50%/100.1kPa

Tested by: Wlif Wu

Power Source: AC120V/60Hz



Trace: 1

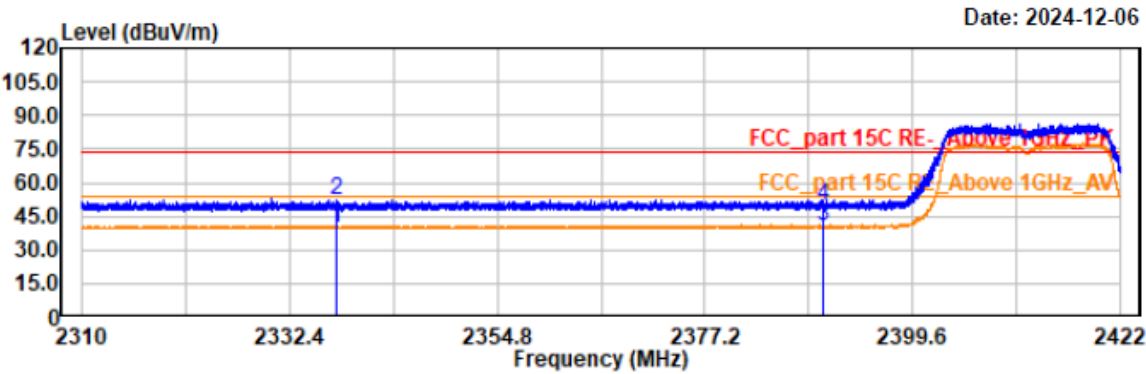
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

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

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2367.90	34.49	5.26	39.75	54.00	14.25	horizontal	Average
2367.90	47.30	5.26	52.56	74.00	21.44	horizontal	Peak
2390.00	35.82	5.37	41.19	54.00	12.81	horizontal	Average
2390.00	45.75	5.37	51.12	74.00	22.88	horizontal	Peak

Project No.: 2407V46068E-RF
Test Mode: 11n20-2412
EUT Model: M150i
Test distance: 3m

Temp/Humi/ATM: 23.2°C/50%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



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
2337.36	34.77	5.12	39.89	54.00	14.11	vertical	Average
2337.36	47.37	5.12	52.49	74.00	21.51	vertical	Peak
2390.00	35.13	5.37	40.50	54.00	13.50	vertical	Average
2390.00	44.14	5.37	49.51	74.00	24.49	vertical	Peak

Project No.: 2407V46068E-RF

Test Mode: 11n20-2462

EUT Model: M150i

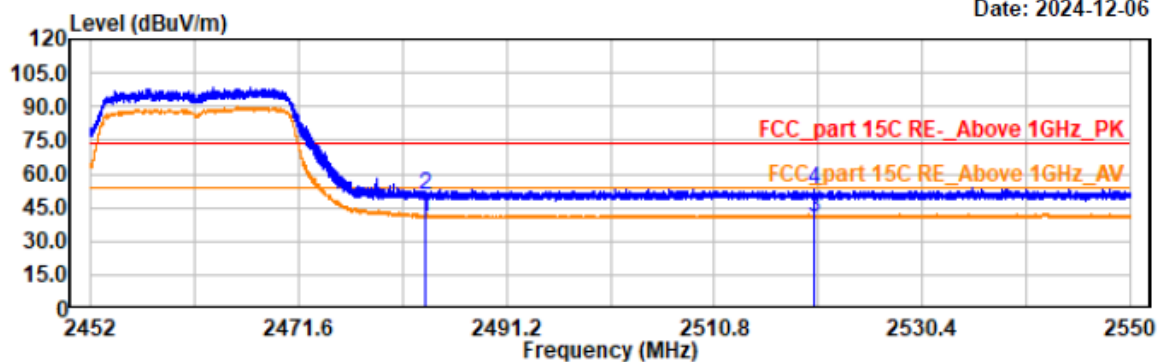
Test distance: 3m

Temp/Humi/ATM: 23.2°C/50%/100.1kPa

Tested by: Wlif Wu

Power Source: AC120V/60Hz

Date: 2024-12-06



Trace: 1

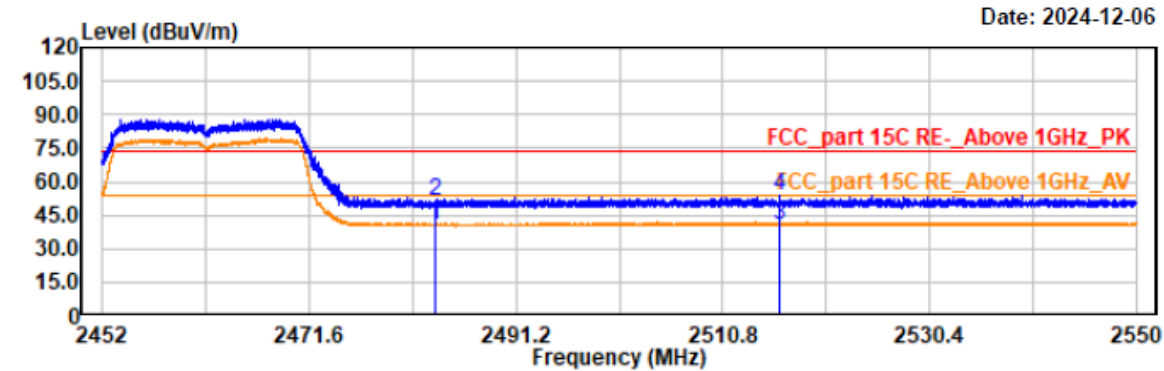
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

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	34.85	5.83	40.68	54.00	13.32	horizontal	Average
2483.50	44.74	5.83	50.57	74.00	23.43	horizontal	Peak
2520.13	34.91	5.94	40.85	54.00	13.15	horizontal	Average
2520.13	46.69	5.94	52.63	74.00	21.37	horizontal	Peak

Project No.: 2407V46068E-RF
Test Mode: 11n20-2462
EUT Model: M150i
Test distance: 3m

Temp/Humi/ATM: 23.2°C/50%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



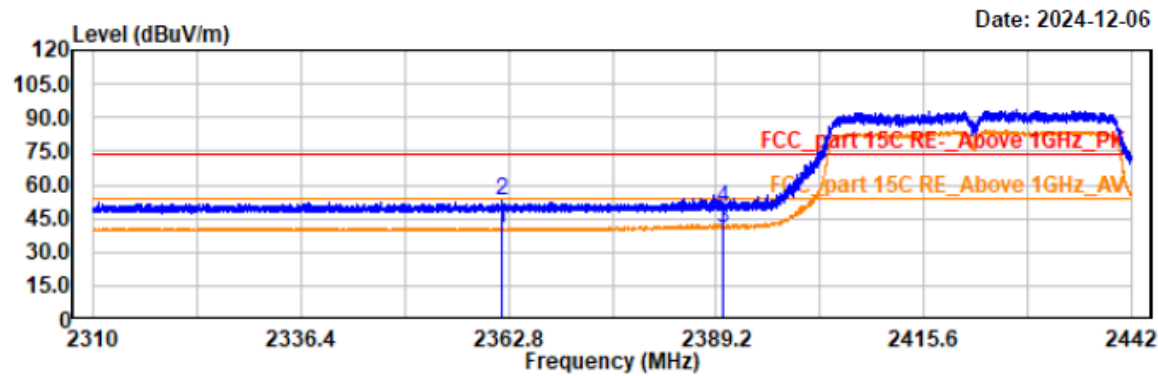
Trace: 1

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	34.58	5.83	40.41	54.00	13.59	vertical	Average
2483.50	45.12	5.83	50.95	74.00	23.05	vertical	Peak
2516.16	35.01	5.93	40.94	54.00	13.06	vertical	Average
2516.16	47.88	5.93	53.81	74.00	20.19	vertical	Peak

Project No.: 2407V46068E-RF
Test Mode: 11n40-2422
EUT Model: M150i
Test distance: 3m

Temp/Humi/ATM: 23.2°C/50%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



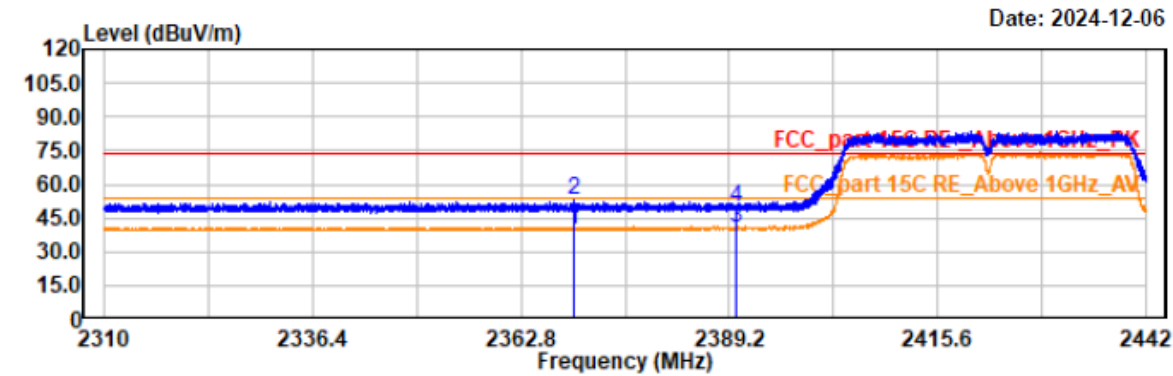
Trace: 1

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
2361.96	34.92	5.22	40.14	54.00	13.86	horizontal	Average
2361.96	47.46	5.22	52.68	74.00	21.32	horizontal	Peak
2390.01	35.31	5.37	40.68	54.00	13.32	horizontal	Average
2390.01	44.22	5.37	49.59	74.00	24.41	horizontal	Peak

Project No.: 2407V46068E-RF
Test Mode: 11n40-2422
EUT Model: M150i
Test distance: 3m

Temp/Humi/ATM: 23.2°C/50%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



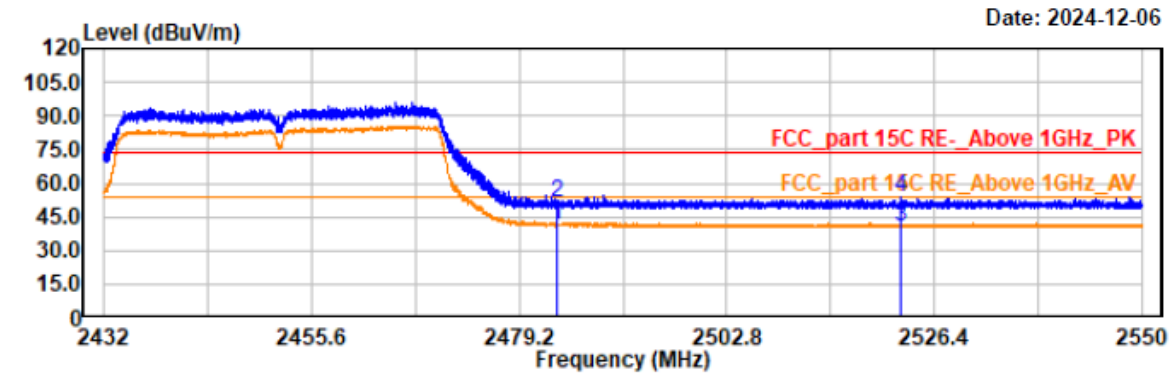
Trace: 1

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
2369.43	34.80	5.27	40.07	54.00	13.93	vertical	Average
2369.43	47.35	5.27	52.62	74.00	21.38	vertical	Peak
2390.01	34.87	5.37	40.24	54.00	13.76	vertical	Average
2390.01	44.57	5.37	49.94	74.00	24.06	vertical	Peak

Project No.: 2407V46068E-RF
Test Mode: 11n40-2452
EUT Model: M150i
Test distance: 3m

Temp/Humi/ATM: 23.2°C/50%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Trace: 1

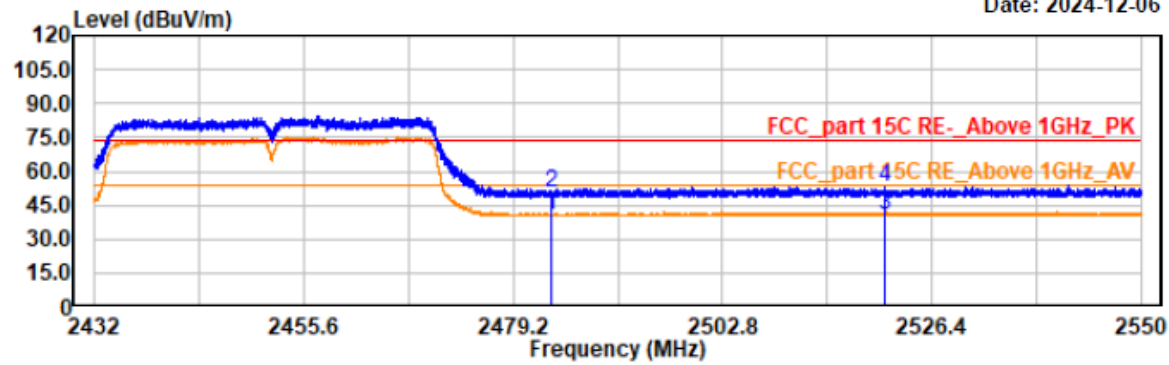
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	35.40	5.83	41.23	54.00	12.77	horizontal	Average
2483.50	45.09	5.83	50.92	74.00	23.08	horizontal	Peak
2522.59	34.78	5.95	40.73	54.00	13.27	horizontal	Average
2522.59	47.54	5.95	53.49	74.00	20.51	horizontal	Peak

Project No.: 2407V46068E-RF
Test Mode: 11n40-2452
EUT Model: M150i
Test distance: 3m

Temp/Humi/ATM: 23.2°C/50%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz

Date: 2024-12-06



Trace: 1

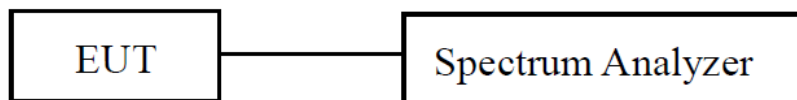
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	34.77	5.83	40.60	54.00	13.40	vertical	Average
2483.50	44.43	5.83	50.26	74.00	23.74	vertical	Peak
2521.13	34.88	5.94	40.82	54.00	13.18	vertical	Average
2521.13	47.19	5.94	53.13	74.00	20.87	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

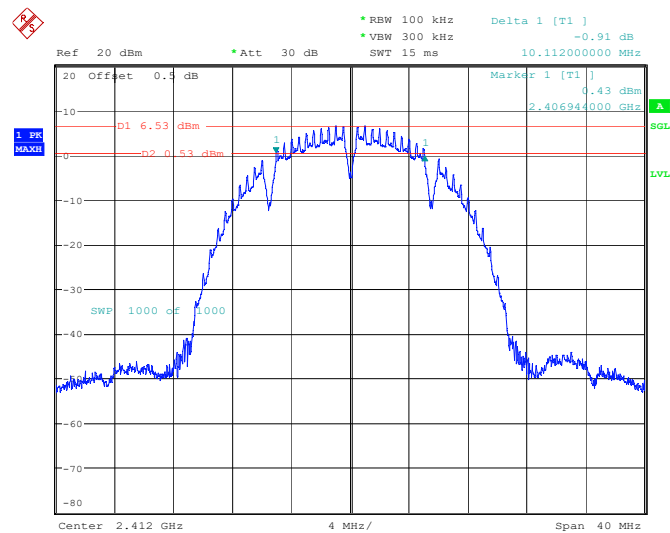
- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the 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

Test Mode:	Transmitting	Test Engineer:	Stein Peng
Test Date:	2024-07-17~2024-07-19	Test Voltage:	AC 120V/60Hz
Test Result:	Compliance	Environment:	Temp.: 24.3°C~25.9°C Humi.: 55%~60% Atm : 99.8 kPa ~100.2kPa
Test Modes	Test Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)
802.11b	2412	10.112	0.5
	2437	10.144	0.5
	2462	10.112	0.5
802.11g	2412	16.384	0.5
	2437	16.416	0.5
	2462	16.384	0.5
802.11n HT20	2412	16.384	0.5
	2437	16.832	0.5
	2462	17.088	0.5
802.11n HT40	2422	35.264	0.5
	2437	35.776	0.5
	2452	35.2	0.5

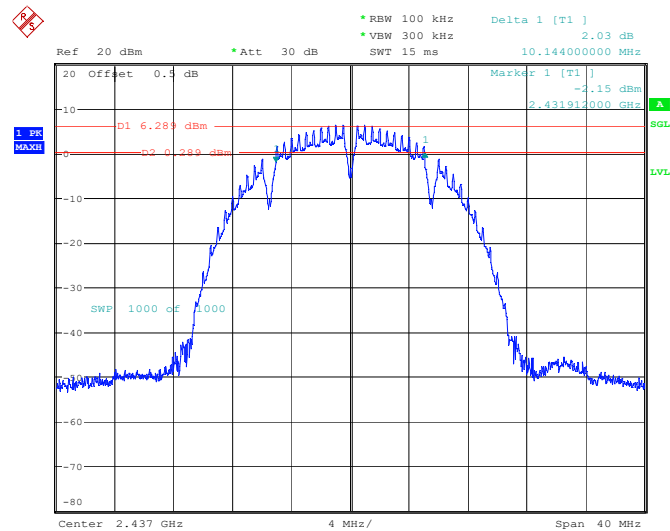
Please refer to below plots:

802.11b Mode Low Channel



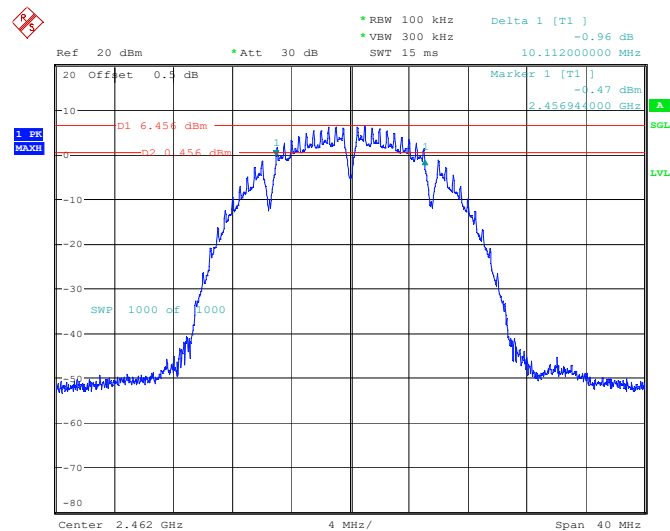
ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 17.JUL.2024 16:57:58

802.11b Mode Middle Channel



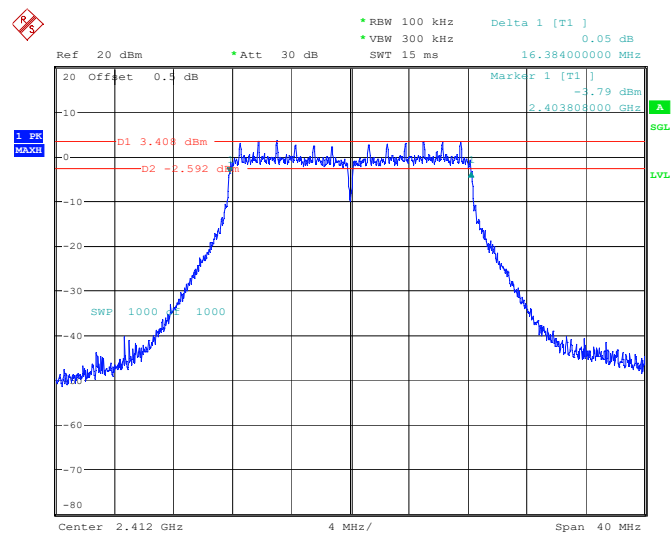
ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 17.JUL.2024 16:59:44

802.11b Mode High Channel



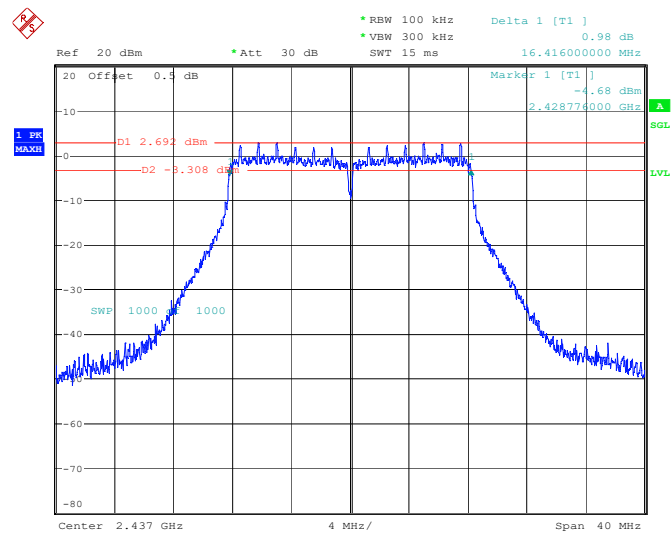
ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 17.JUL.2024 17:01:35

802.11g Mode Low Channel



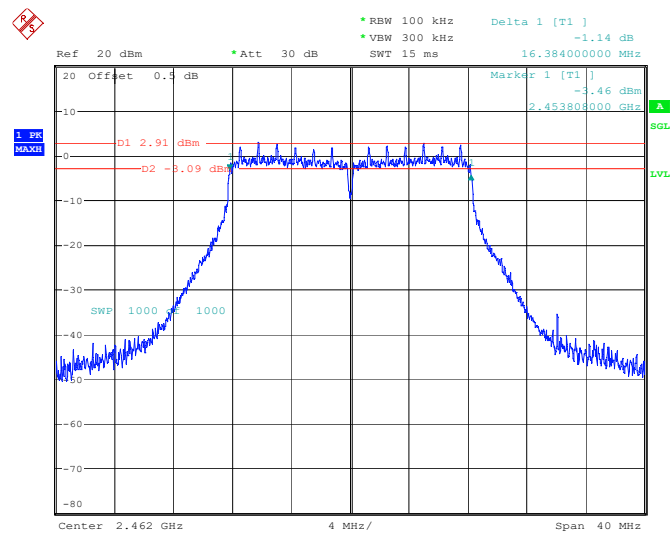
ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 17.JUL.2024 17:03:07

802.11g Mode Middle Channel



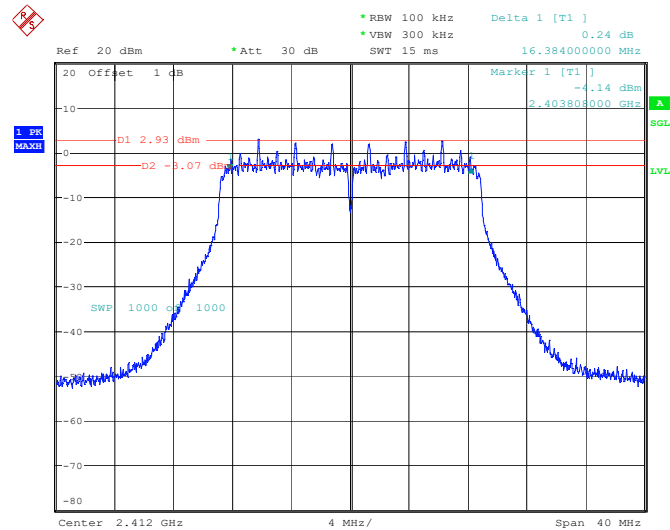
ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 17.JUL.2024 17:04:23

802.11g Mode High Channel



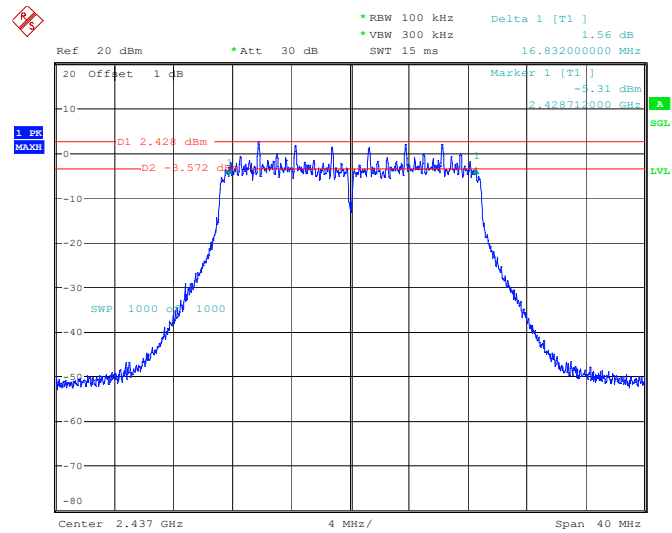
ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 17.JUL.2024 17:06:18

802.11n-ht20 Mode Low Channel



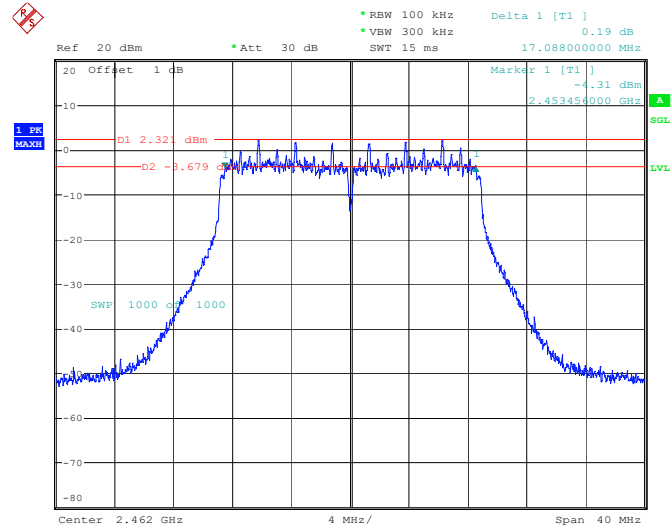
ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 19.JUL.2024 10:07:24

802.11n-ht20 Mode Middle Channel



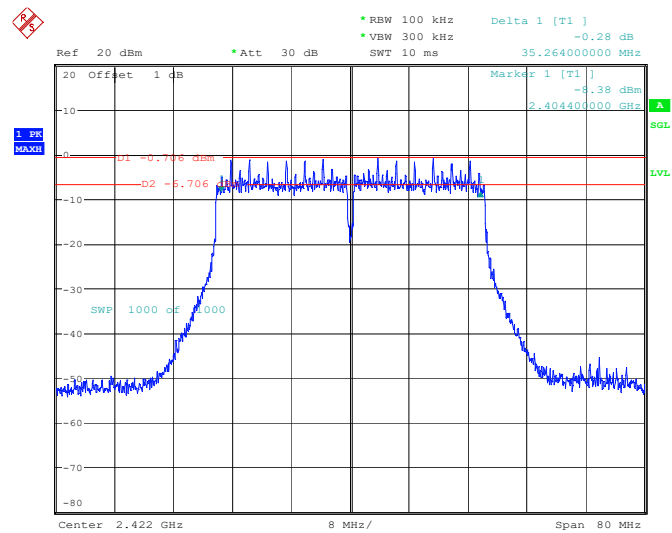
ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 19.JUL.2024 10:10:13

802.11n-ht20 Mode High Channel



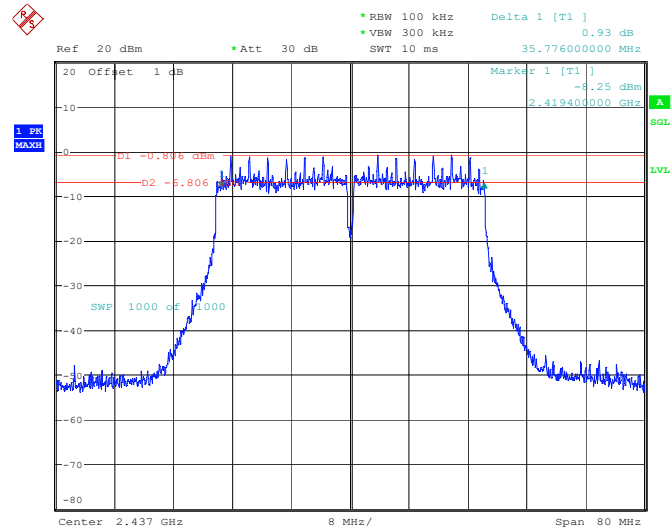
ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 19.JUL.2024 10:12:07

802.11n-ht40 Mode Low Channel



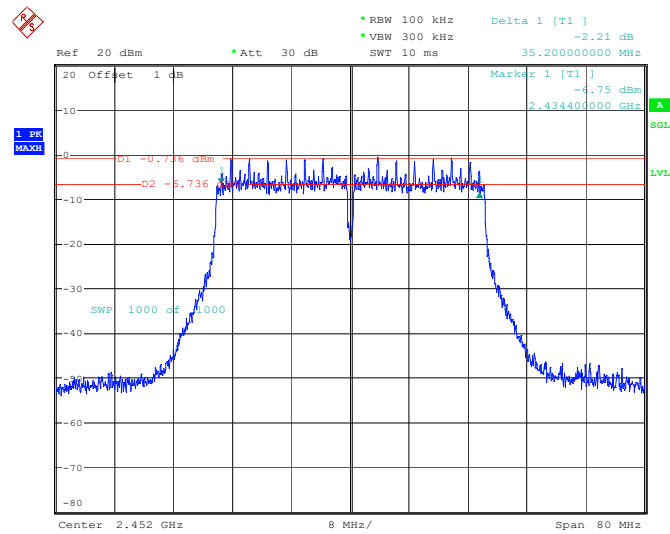
ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 19.JUL.2024 10:13:28

802.11n-ht40 Mode Middle Channel



ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 19.JUL.2024 10:15:06

802.11n-ht40 Mode High Channel



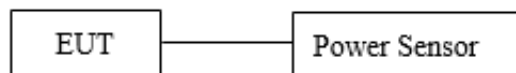
ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 19.JUL.2024 10:16:53

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



Test Procedure

According to ANSI C63.10-2013 11.9.2.3.1 Method AVGPM

a) 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:

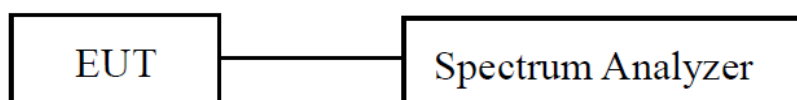
- 1) The EUT is configured to transmit continuously, or to transmit with a constant duty cycle.
- 2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
- 3) The integration period of the power meter exceeds the repetition period of the transmitted 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

Test Mode:		Transmitting			Test Engineer:		Stein Peng	
Test Date:		2024-07-17			Test Voltage:		AC 120V/60Hz	
Test Result:		Compliance			Environment:		Temp.: 24.3°C Humi.: 55% Atm.:99.8kPa	
Test Modes	Test Frequency (MHz)	Reading (dBm)			Duty Factor (dB)	Maximum Conducted Average Output Power (dBm)		Limit (dBm)
		Chain 0 (Ant 1)	Chain 1 (Ant 2)	Total		Chain 0 (Ant 1)	Chain 1 (Ant 2)	
802.11b	2412	15.72	16.27	/	/	15.72	16.27	30
	2437	15.62	16.03	/	/	15.62	16.03	30
	2462	15.37	16.06	/	/	15.37	16.06	30
802.11g	2412	14.12	14.16	/	0.33	14.45	14.49	30
	2437	13.96	14.52	/	0.33	14.29	14.85	30
	2462	13.85	14.42	/	0.33	14.18	14.75	30
802.11n HT20	2412	13.27	12.97	16.13	0.89	17.03		30
	2437	12.87	13.24	16.07	0.89	16.96		30
	2462	12.56	13.28	15.95	0.89	16.84		30
802.11n HT40	2422	11.73	11.55	14.65	3.81	18.46		30
	2437	11.54	11.42	14.49	3.81	18.30		30
	2452	11.32	11.82	14.59	3.81	18.40		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.

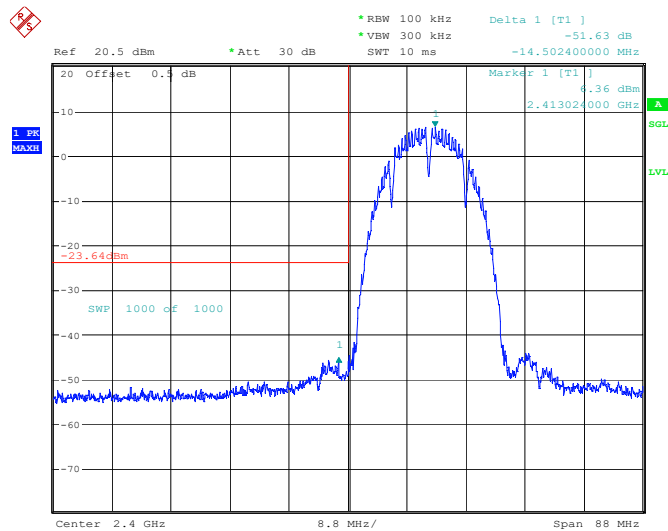
Test Data

Test Mode:	Transmitting	Test Engineer:	Stein Peng
Test Date:	2024-06-17~2024-09-13	Test Voltage:	AC 120V/60Hz
Test Result:	Compliance	Environment:	Temp.: 24.3°C~24.5°C Humi.: 55%~63% Atm : 99.8kPa~100.1kPa

Please refer to below plots:

Chain 0(Ant 1)

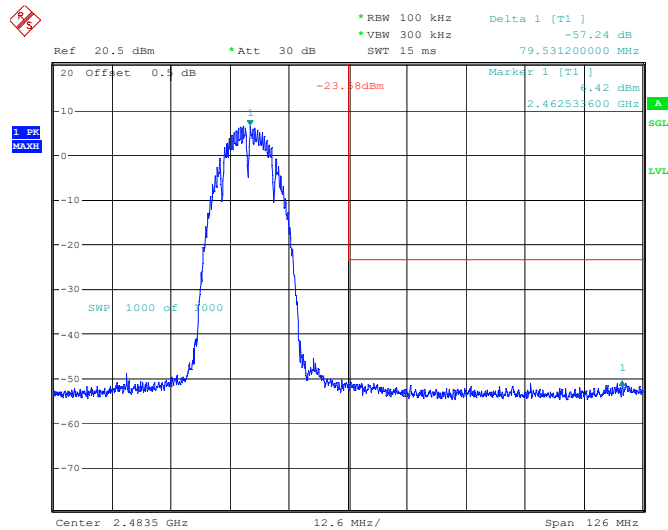
802.11b Mode Left Side



ProjectNo.:2407V46068E-RF Tester:Stein Peng

Date: 17.JUN.2024 18:07:34

802.11b Mode Right Side

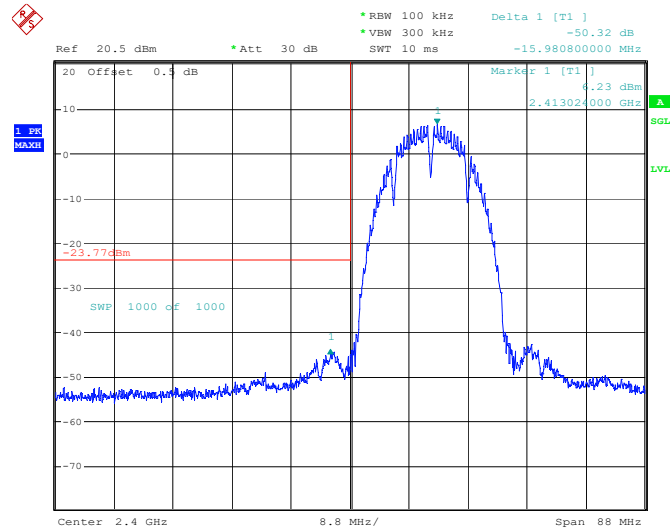


ProjectNo.:2407V46068E-RF Tester:Stein Peng

Date: 17.JUN.2024 18:11:51

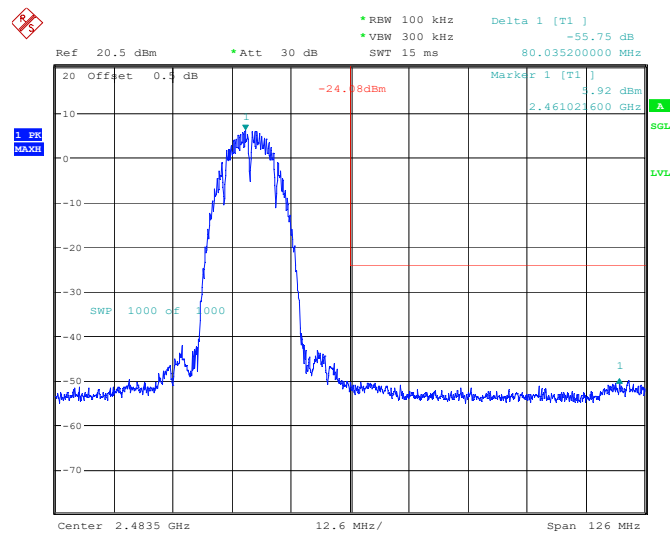
Chain 1(Ant 2)

802.11b Mode Left Side



ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 18.JUN.2024 10:23:29

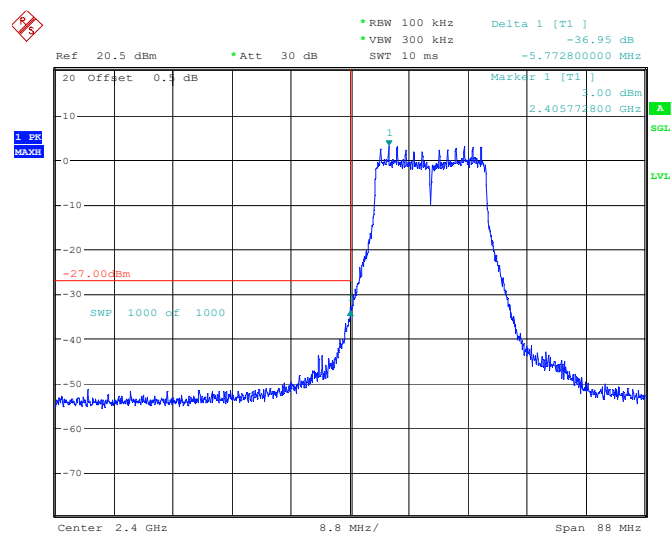
802.11b Mode Right Side



ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 18.JUN.2024 10:27:41

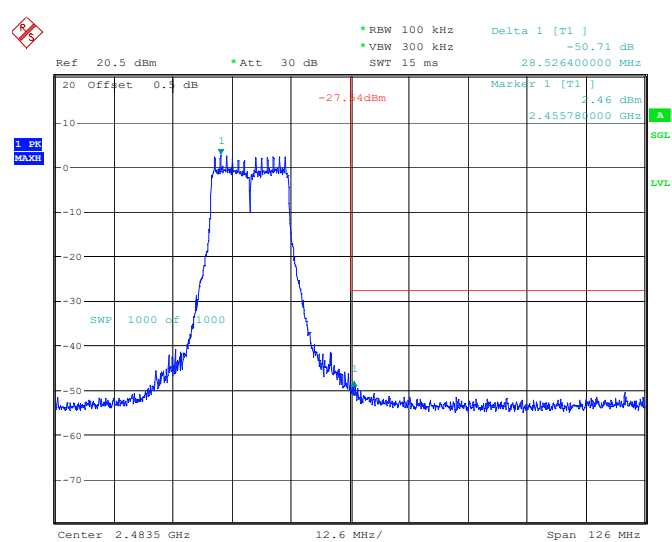
Chain 0(Ant 1)

802.11g Mode Left Side



ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 17.JUN.2024 18:13:03

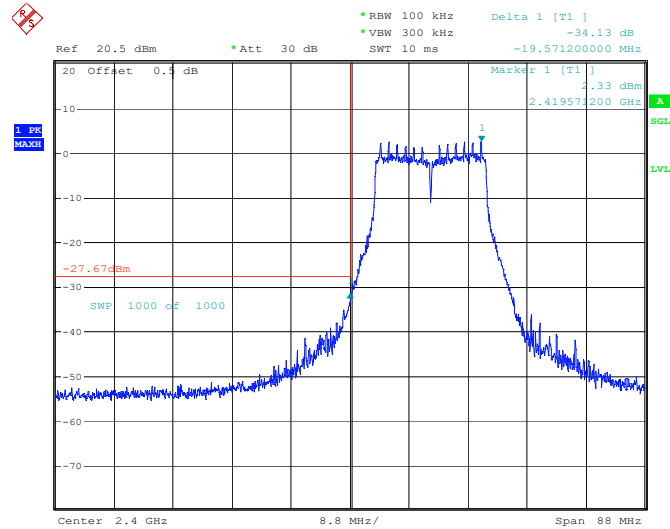
802.11g Mode Right Side



ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 17.JUN.2024 18:14:10

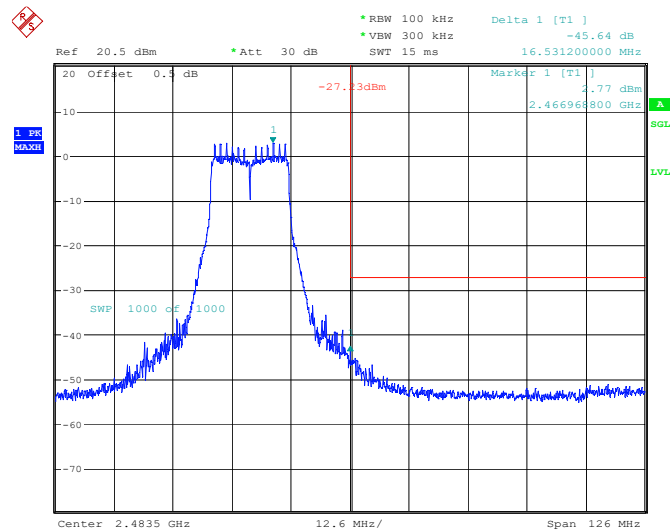
Chain 1(Ant 2)

802.11g Mode Left Side



ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 18.JUN.2024 10:30:08

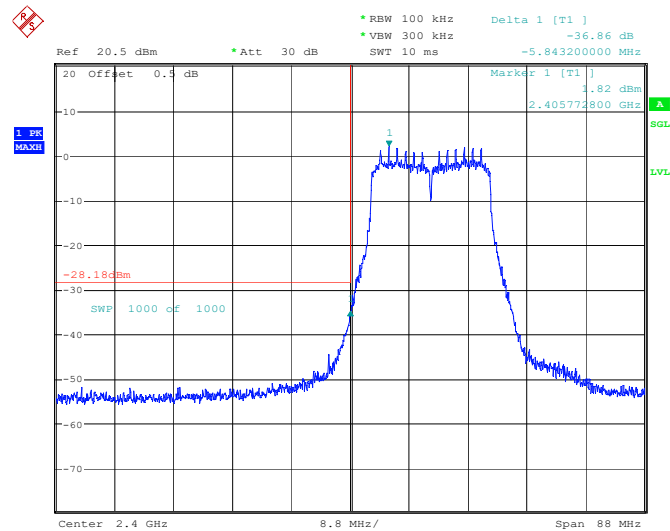
802.11g Mode Right Side



ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 18.JUN.2024 10:54:46

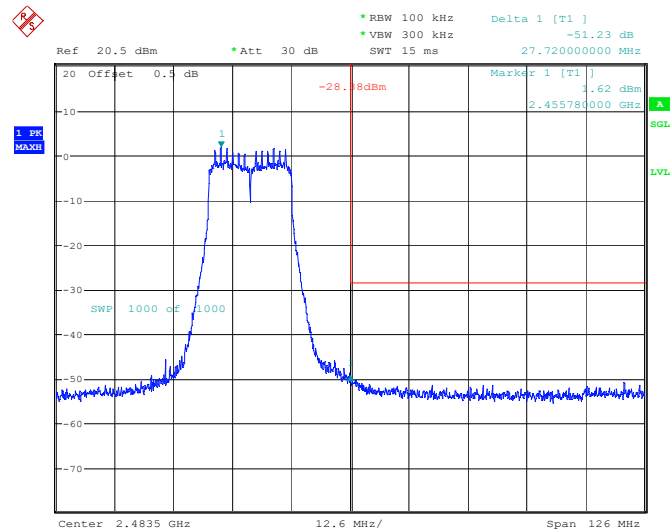
Chain 0(Ant 1)

802.11n-ht20 Mode Left Side



ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 13.SEP.2024 14:26:39

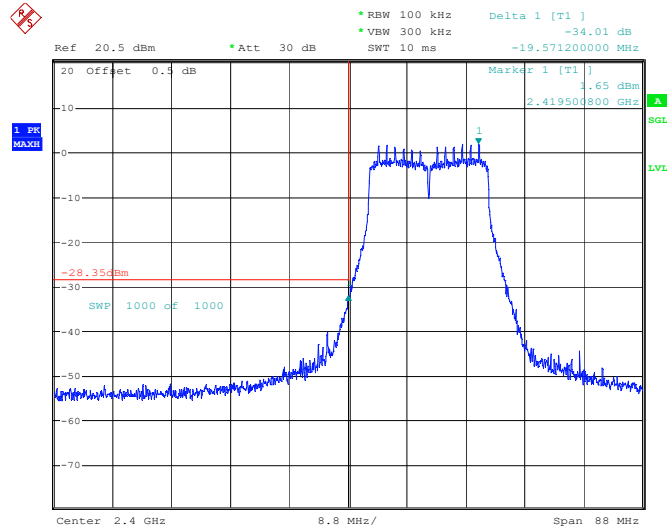
802.11n-ht20 Mode Right Side



ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 13.SEP.2024 14:28:29

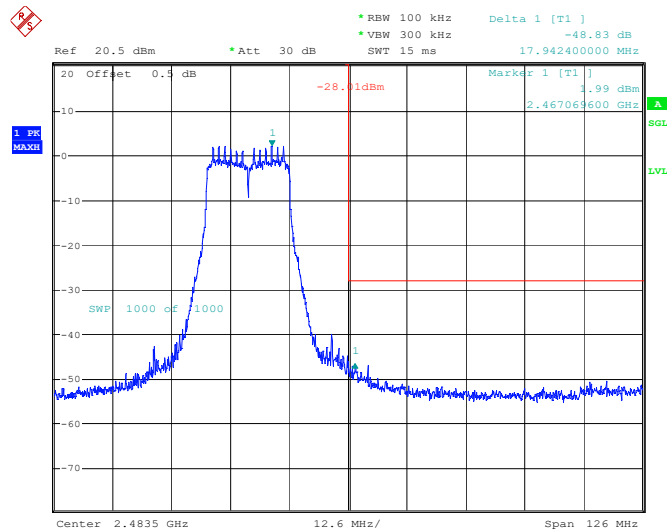
Chain 1(Ant 2)

802.11n-ht20 Mode Left Side



ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 13.SEP.2024 14:20:10

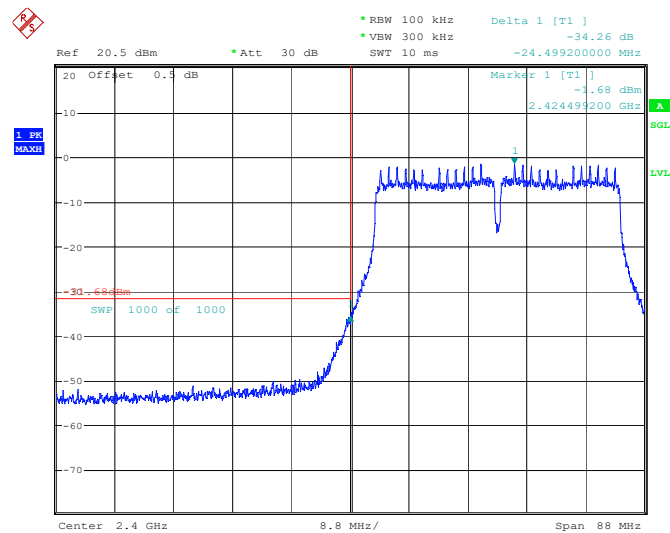
802.11n-ht20 Mode Right Side



ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 13.SEP.2024 14:22:08

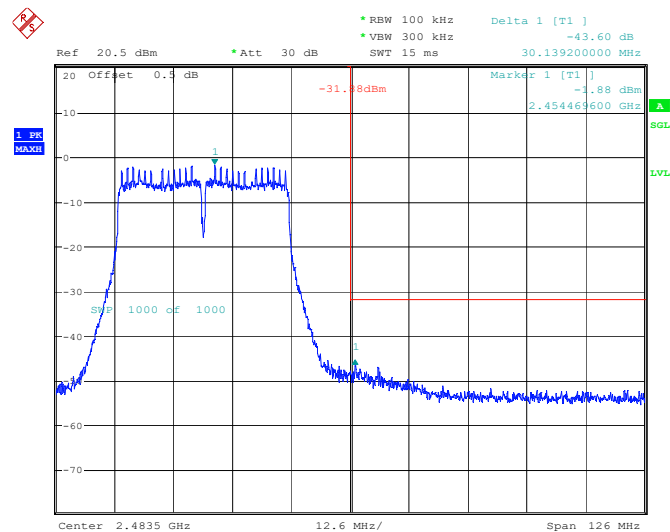
Chain 0(Ant 1)

802.11n-ht40 Mode Left Side



ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 13.SEP.2024 14:29:31

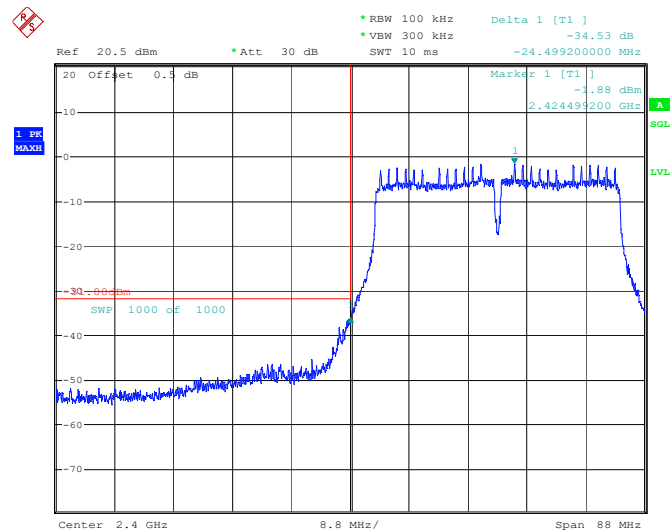
802.11n-ht40 Mode Right Side



ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 13.SEP.2024 14:30:44

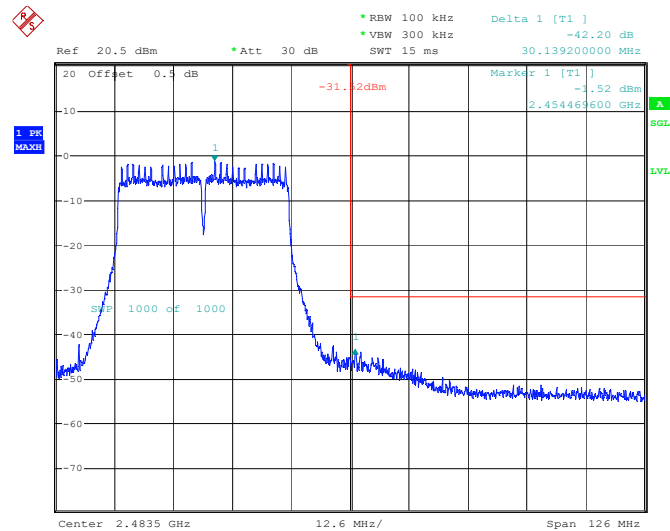
Chain 1(Ant 2)

802.11n-ht40 Mode Left Side



ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 13.SEP.2024 14:23:21

802.11n-ht40 Mode Right Side



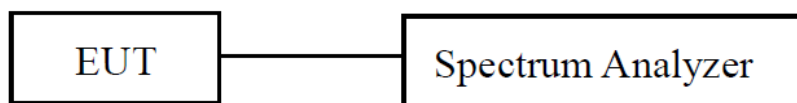
ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 13.SEP.2024 14:25:02

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

The following procedure shall be used if maximum peak conducted output power was used to determine compliance:

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set 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.

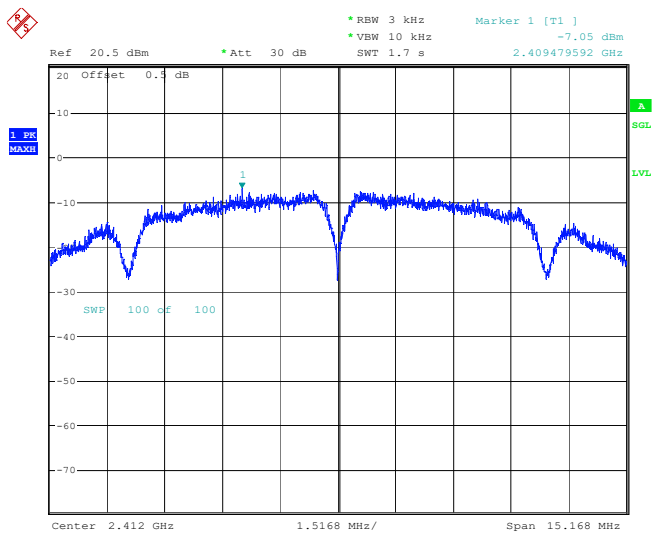
Test Data

Test Mode:	Transmitting		Test Engineer:	Stein Peng	
Test Date:	2024-06-17~2024-09-13		Test Voltage:	AC 120V/60Hz	
Test Result:	Compliance		Environment:	Temp.: 24.3°C~24.5°C Humi.: 55%~63% Atm : 99.8 kPa ~100.1kPa	
Test Modes	Test Frequency (MHz)	Reading (dBm/3kHz)		Maximum Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
		Chain 0 (Ant 1)	Chain 1 (Ant 2)		
802.11b	2412	-7.05	-6.91	-6.91	8.00
	2437	-6.84	-6.45	-6.45	8.00
	2462	-5.8	-7.09	-5.80	8.00
802.11g	2412	-8.7	-10.37	-8.70	8.00
	2437	-10.12	-9.35	-9.35	8.00
	2462	-10.29	-9.52	-9.52	8.00
802.11nHT20	2412	-12.13	-12.3	-9.20	8.00
	2437	-12.61	-11.4	-8.95	8.00
	2462	-12.28	-11.34	-8.77	8.00
802.11nHT40	2422	-15.01	-15.95	-12.44	8.00
	2437	-15.43	-13.63	-11.43	8.00
	2452	-15.46	-14.85	-12.13	8.00

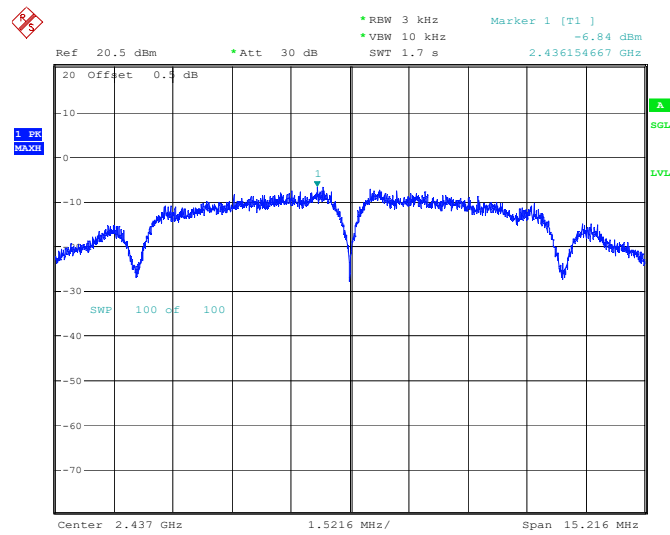
Please refer to below plots:

Chain 0(Ant 1)

802.11b Mode Low Channel

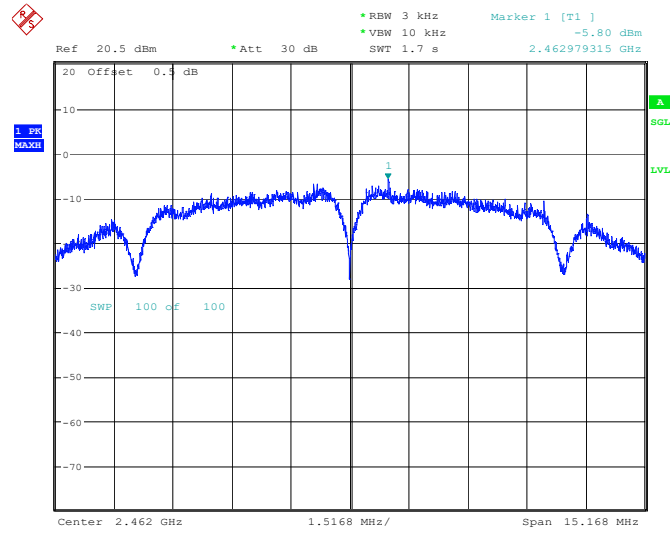


802.11b Mode Middle Channel



ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 17.JUN.2024 18:25:42

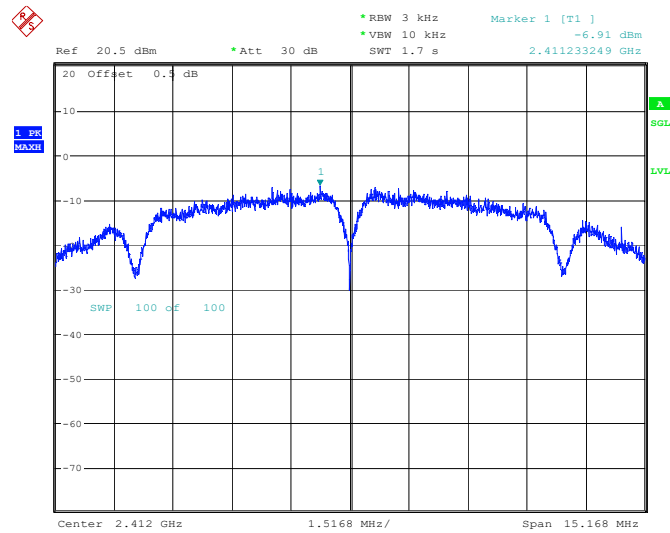
802.11b Mode High Channel



ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 17.JUN.2024 18:29:37

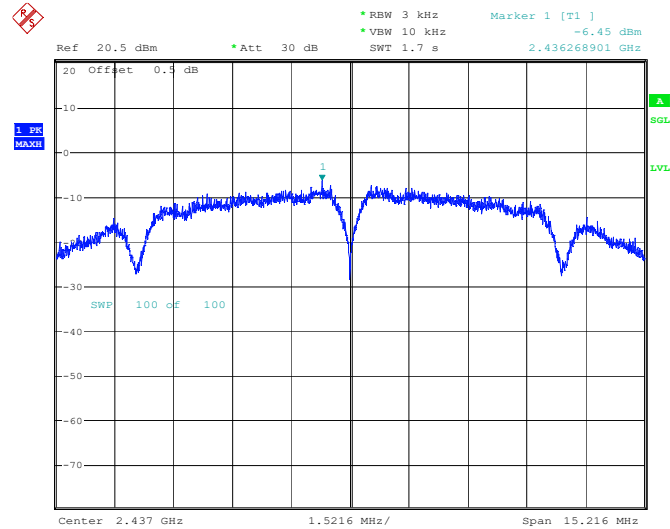
Chain 1(Ant 2)

802.11b Mode Low Channel



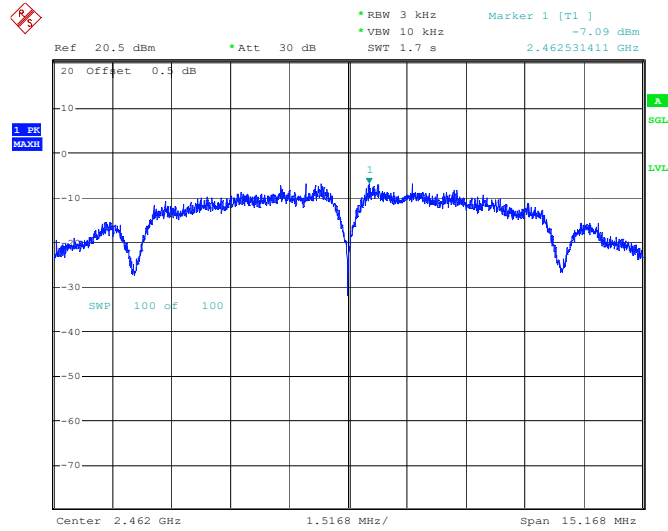
ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 18.JUN.2024 11:08:12

802.11b Mode Middle Channel



ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 18.JUN.2024 11:12:34

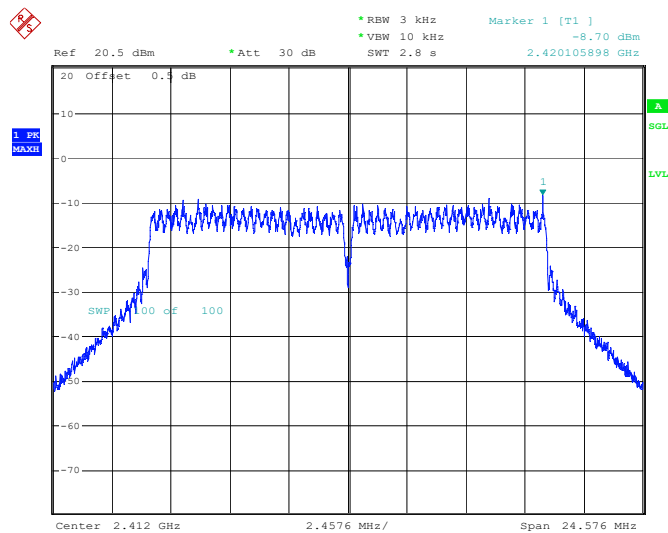
802.11b Mode High Channel



ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 18.JUN.2024 11:15:56

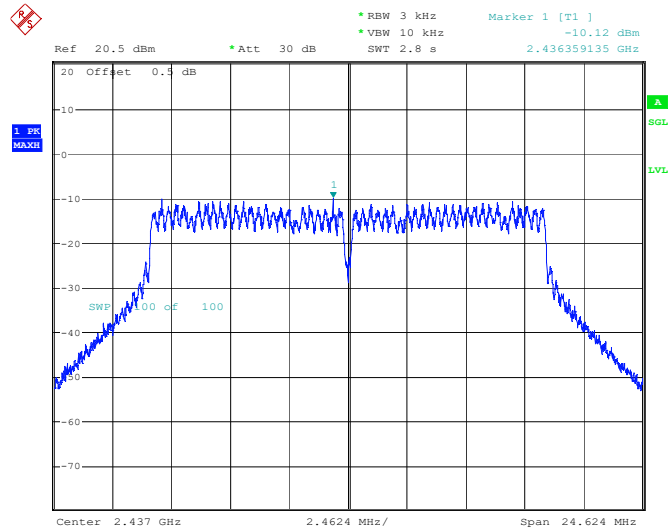
Chain 0(Ant 1)

802.11g Mode Low Channel



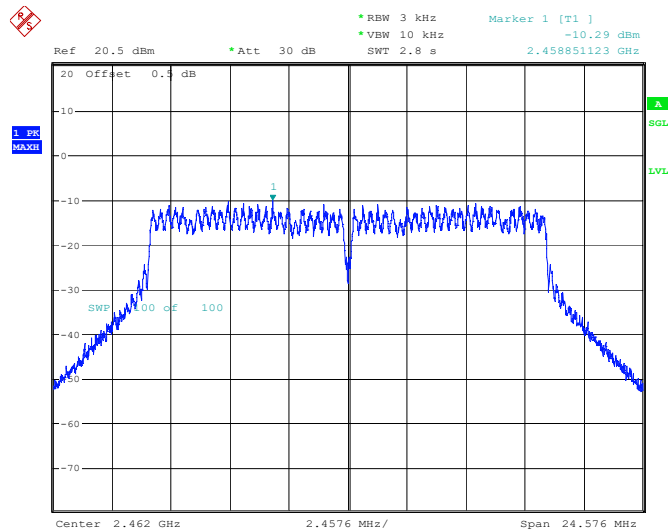
ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 17.JUN.2024 18:34:40

802.11g Mode Middle Channel



ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 17.JUN.2024 18:40:21

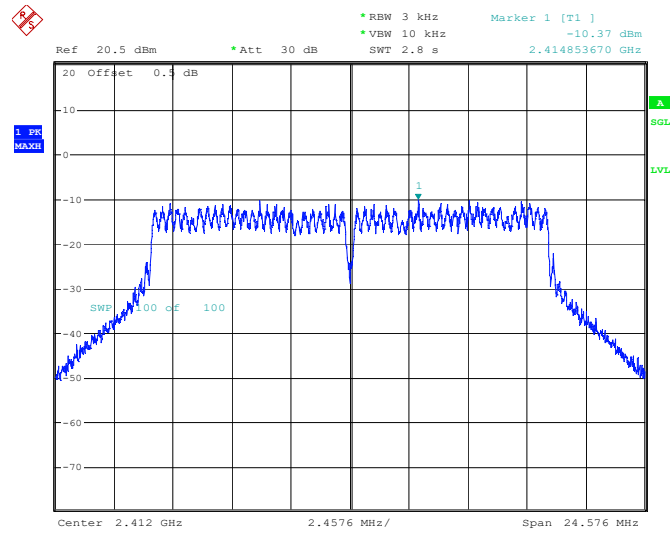
802.11g Mode High Channel



ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 17.JUN.2024 19:14:32

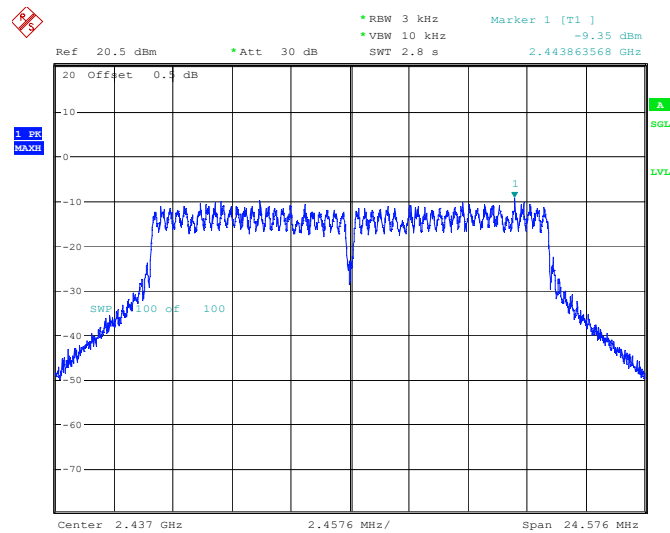
Chain 1(Ant 2)

802.11g Mode Low Channel



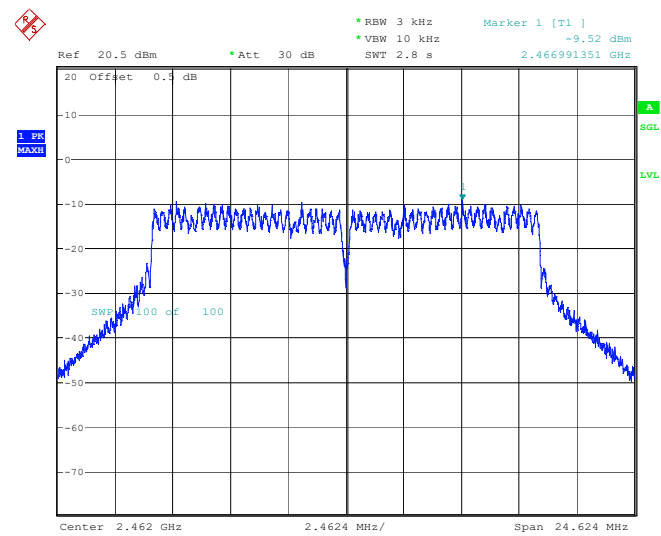
ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 18.JUN.2024 11:21:48

802.11g Mode Middle Channel



ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 18.JUN.2024 11:27:11

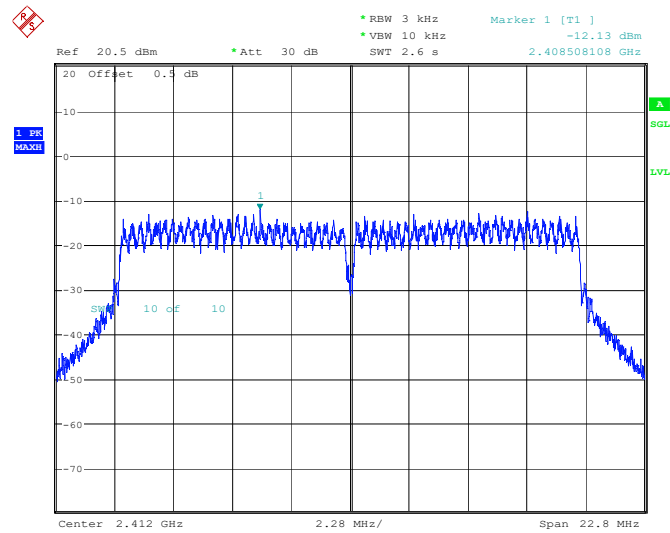
802.11g Mode High Channel



ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 18.JUN.2024 11:48:43

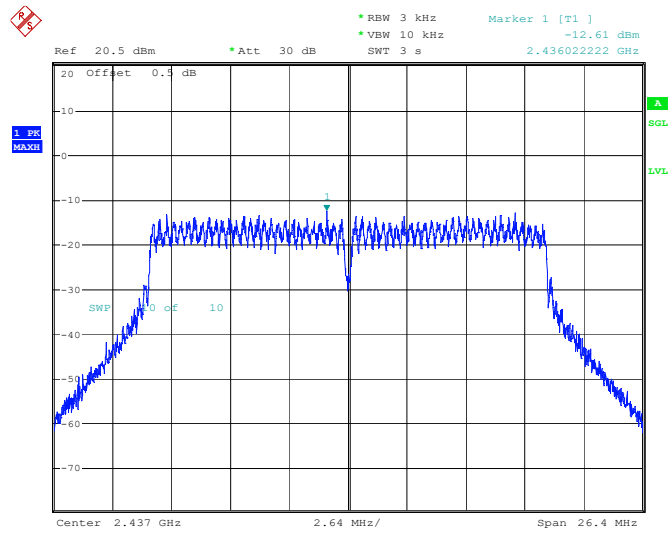
Chain 0(Ant 1)

802.11n-ht20 Mode Low Channel



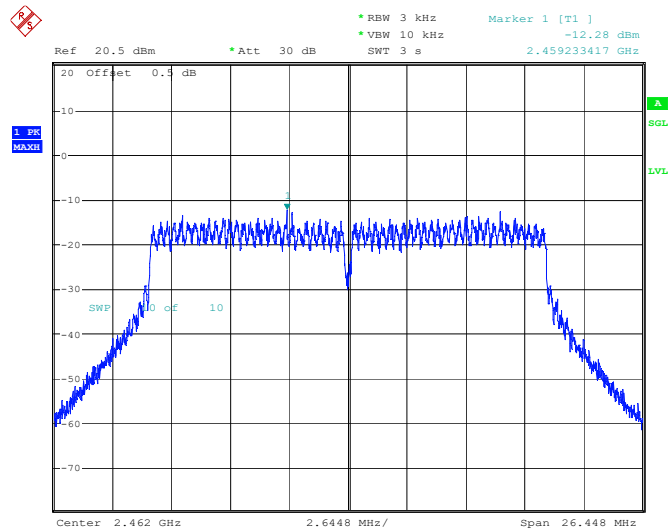
ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 13.SEP.2024 13:51:41

802.11n-ht20 Mode Middle Channel



ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 13.SEP.2024 13:53:38

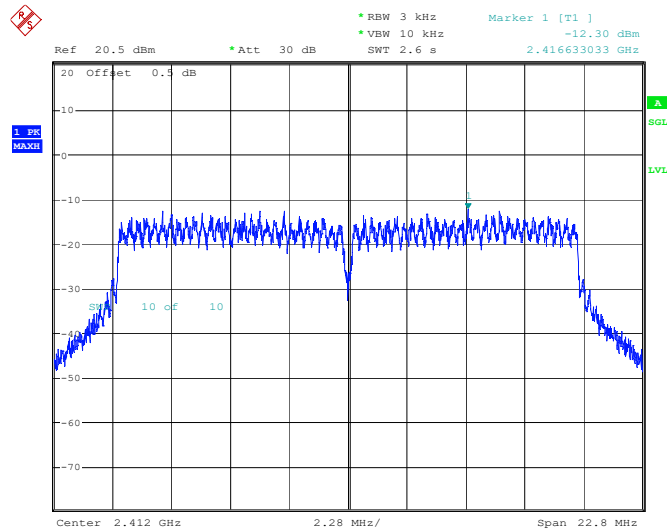
802.11n-ht20 Mode High Channel



ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 13.SEP.2024 13:55:14

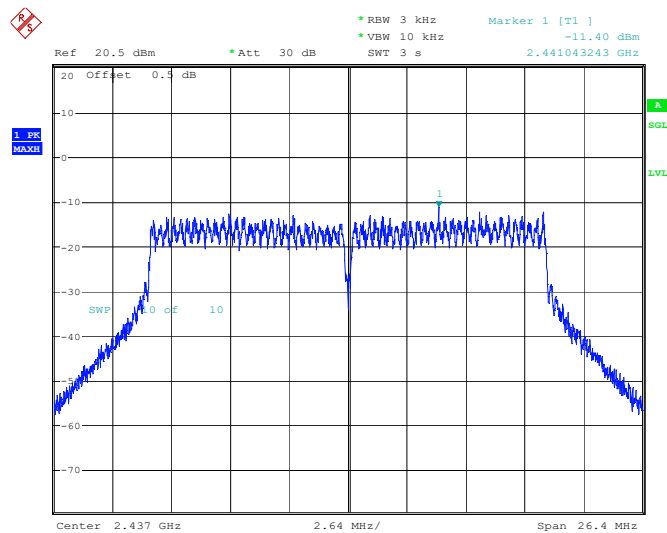
Chain 1(Ant 2)

802.11n-ht20 Mode Low Channel



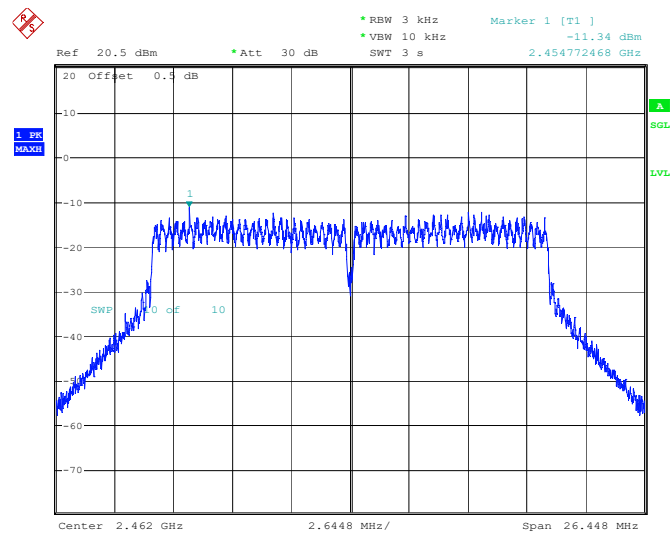
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 Date: 13.SEP.2024 13:42:20

802.11n-ht20 Mode Middle Channel



ProjectNo.:2407V46068E-RF Tester:Stein Peng
 Date: 13.SEP.2024 13:43:07

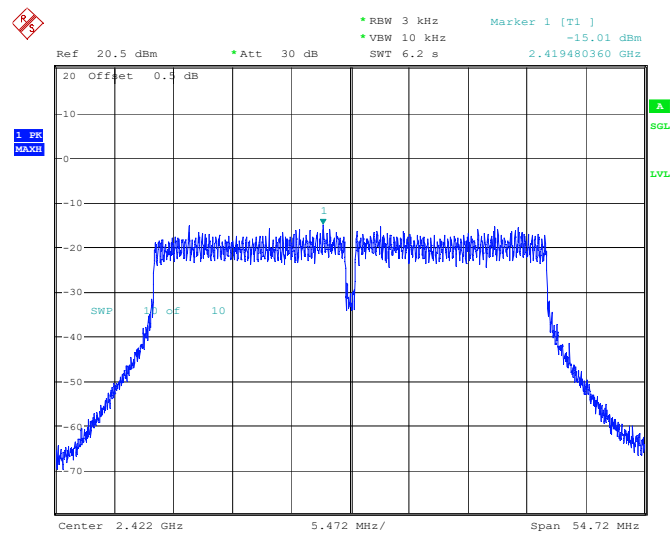
802.11n-ht20 Mode High Channel



ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 13.SEP.2024 13:44:02

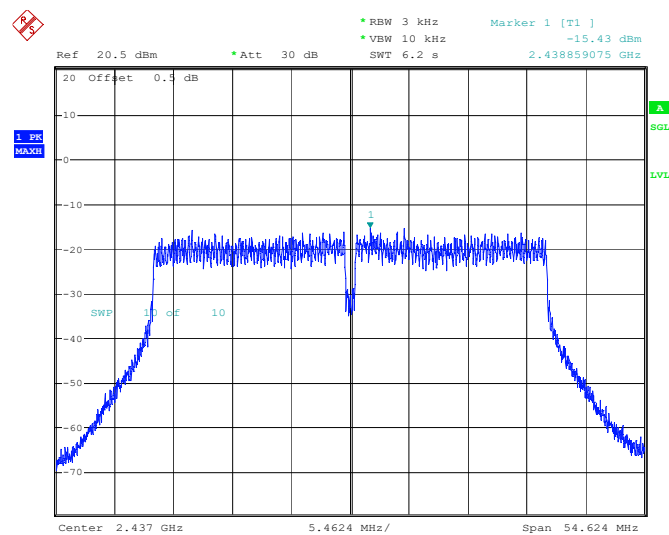
Chain 0(Ant 1)

802.11n-ht40 Mode Low Channel



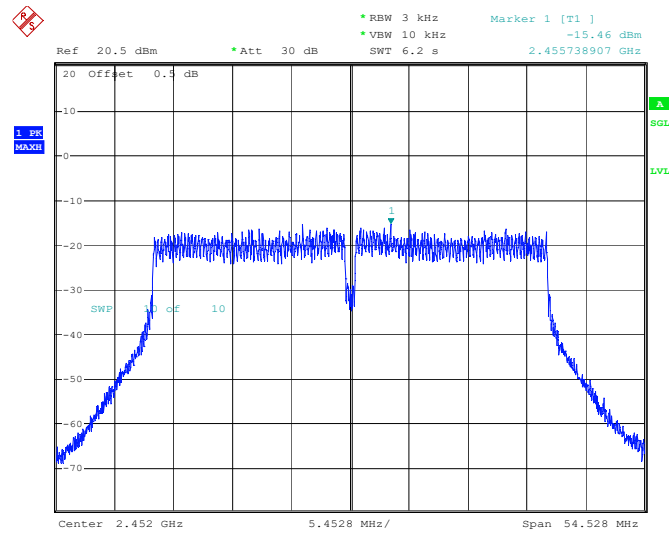
ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 13.SEP.2024 13:57:09

802.11n-ht40 Mode Middle Channel



ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 13.SEP.2024 13:58:26

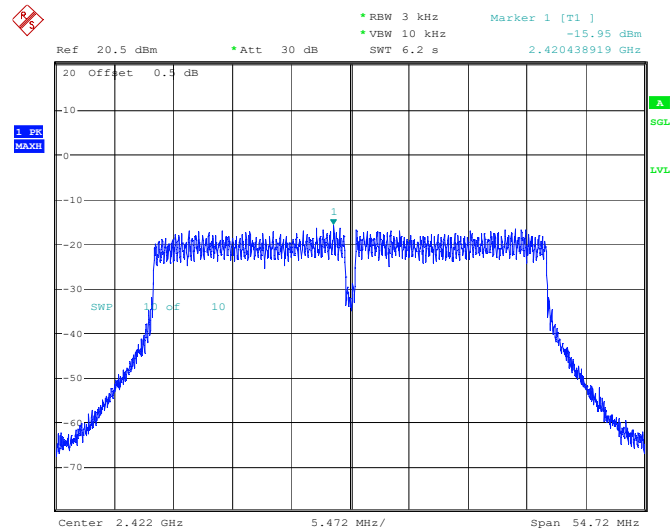
802.11n-ht40 Mode High Channel



ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 13.SEP.2024 13:59:45

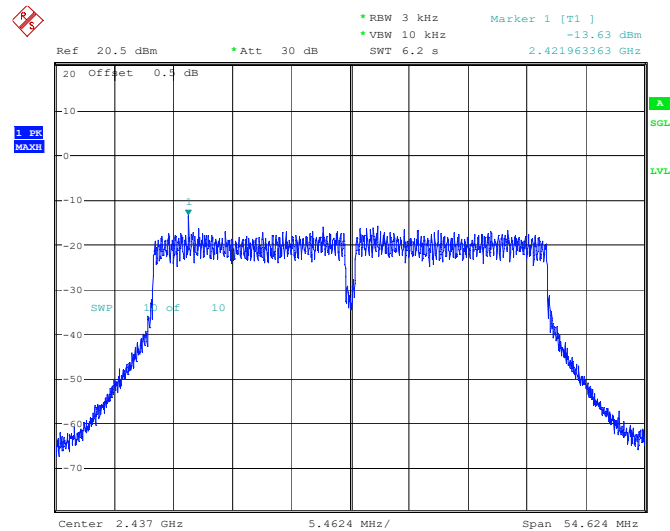
Chain 1(Ant 2)

802.11n-ht40 Mode Low Channel



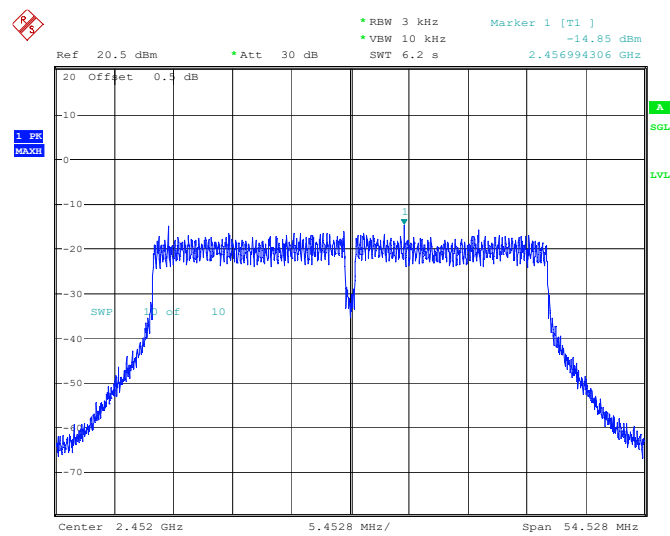
ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 13.SEP.2024 13:46:40

802.11n-ht40 Mode Middle Channel



ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 13.SEP.2024 13:48:04

802.11n-ht40 Mode High Channel



ProjectNo.:2407V46068E-RF Tester:Stein Peng
Date: 13.SEP.2024 13:49:21

EUT PHOTOGRAPHS

Please refer to the attachment 2407V46068E-RF-EXP EUT EXTERNAL PHOTOS and 2407V46068E-RF-INP EUT INTERNAL PHOTOS.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2407V46068E-RF-TSP SETUP PHOTOS.

Declarations

1. Bay Area Compliance Laboratories Corp. (Xiamen) is not responsible for authenticity of any information provided by the applicant. Information from the applicant that may affect test results are marked with an asterisk “★”.
2. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested.
3. Unless required by the rule provided by the applicant or product regulations, then decision rule in this report did not consider the uncertainty.
4. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor $k=2$ with the 95.45% confidence interval.
5. This report cannot be reproduced except in full, without prior written approval of Bay Area Compliance Laboratories Corp. (Xiamen).
6. This report is valid only with a valid digital signature. The digital signature may be available only under the adobe software above version 7.0.

******* END OF REPORT *******