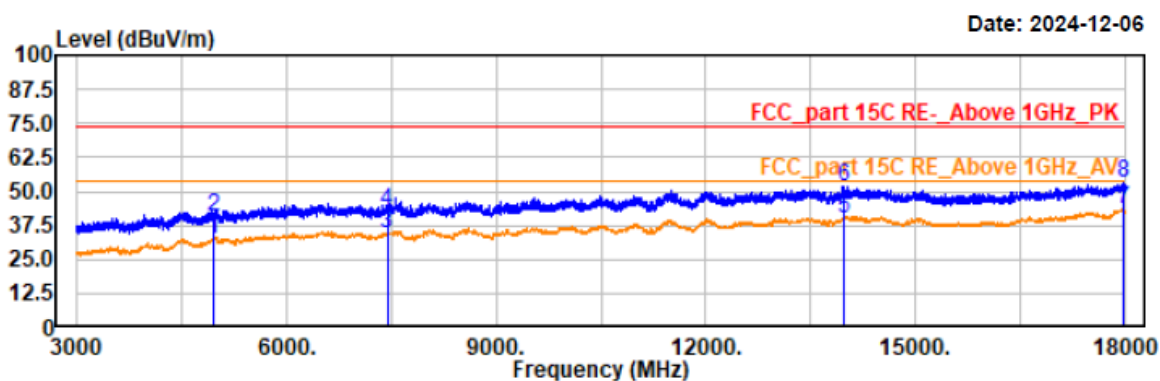


Project No.: 2407V20721E-RF
Test Mode: 3DH1 2480
EUT Model: NLS-NQuire700
Test distance: 3m

Temp/Humi/ATM: 24.1°C/50%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz

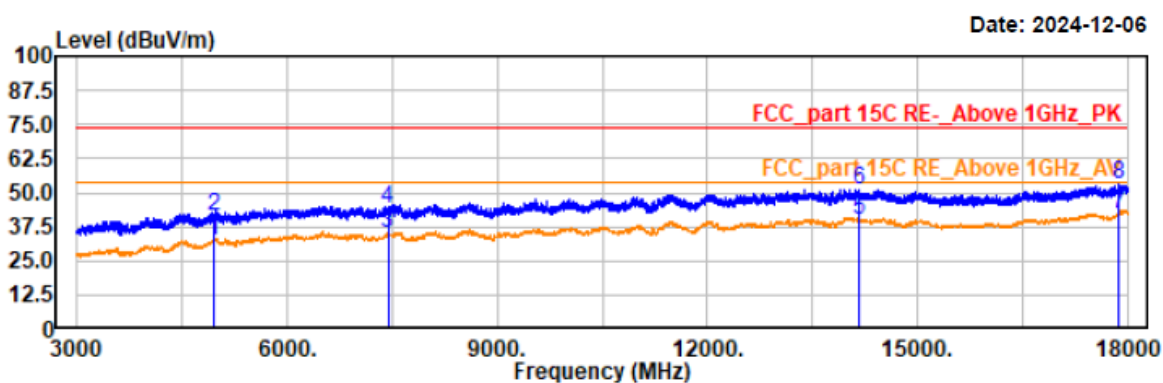
**Trace: 1**

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
4960.50	36.19	-4.01	32.18	54.00	21.82	horizontal	Average
4960.50	44.88	-4.01	40.87	74.00	33.13	horizontal	Peak
7440.00	35.86	-1.59	34.27	54.00	19.73	horizontal	Average
7440.00	44.42	-1.59	42.83	74.00	31.17	horizontal	Peak
13972.50	35.19	5.10	40.29	54.00	13.71	horizontal	Average
13972.50	46.70	5.10	51.80	74.00	22.20	horizontal	Peak
17976.00	35.45	7.71	43.16	54.00	10.84	horizontal	Average
17976.00	45.65	7.71	53.36	74.00	20.64	horizontal	Peak

Project No.: 2407V20721E-RF
Test Mode: 3DH1 2480
EUT Model: NLS-NQuire700
Test distance: 3m

Temp/Humi/ATM: 24.1°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

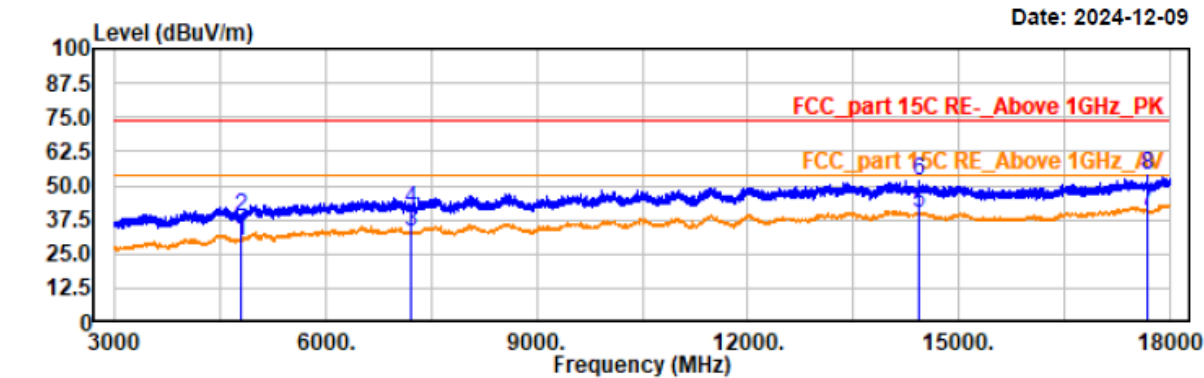
Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4960.50	36.37	-4.01	32.36	54.00	21.64	vertical	Average
4960.50	45.61	-4.01	41.60	74.00	32.40	vertical	Peak
7440.00	36.73	-1.59	35.14	54.00	18.86	vertical	Average
7440.00	45.97	-1.59	44.38	74.00	29.62	vertical	Peak
14169.00	34.61	5.26	39.87	54.00	14.13	vertical	Average
14169.00	46.04	5.26	51.30	74.00	22.70	vertical	Peak
17878.50	34.55	7.51	42.06	54.00	11.94	vertical	Average
17878.50	45.71	7.51	53.22	74.00	20.78	vertical	Peak

3 GHz-18 GHz

EUT Model: NLS-NQuire1000

Project No.: 2407V20721E-RF
Test Mode: 1DH1 2402
EUT Model: NLS-NQuire1000
Test distance: 3m

Temp/Humi/ATM: 23.8℃/47%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz

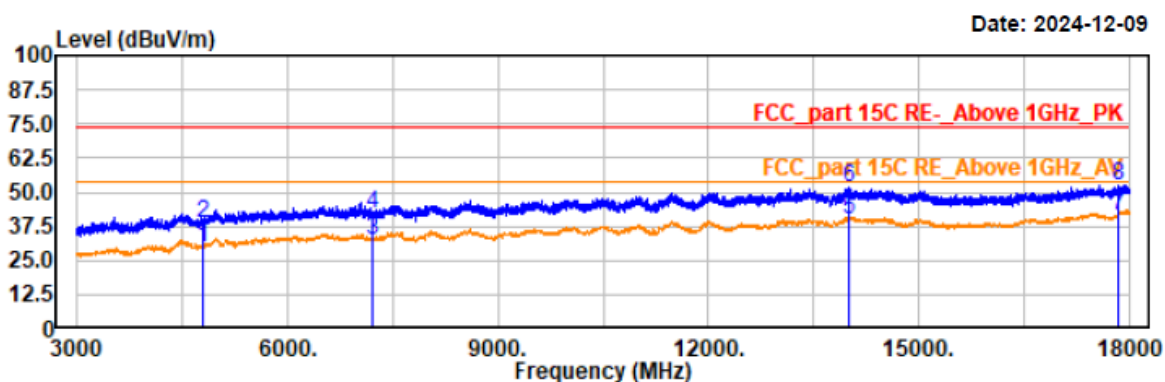


Trace: 1
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4804.50	34.03	-4.45	29.58	54.00	24.42	horizontal	Average
4804.50	43.29	-4.45	38.84	74.00	35.16	horizontal	Peak
7206.00	34.91	-1.73	33.18	54.00	20.82	horizontal	Average
7206.00	42.92	-1.73	41.19	74.00	32.81	horizontal	Peak
14422.50	34.55	5.11	39.66	54.00	14.34	horizontal	Average
14422.50	46.48	5.11	51.59	74.00	22.41	horizontal	Peak
17692.50	33.70	6.87	40.57	54.00	13.43	horizontal	Average
17692.50	46.71	6.87	53.58	74.00	20.42	horizontal	Peak

Project No.: 2407V20721E-RF
Test Mode: 1DH1 2402
EUT Model: NLS-NQuire1000
Test distance: 3m

Temp/Humi/ATM: 23.8°C/47%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



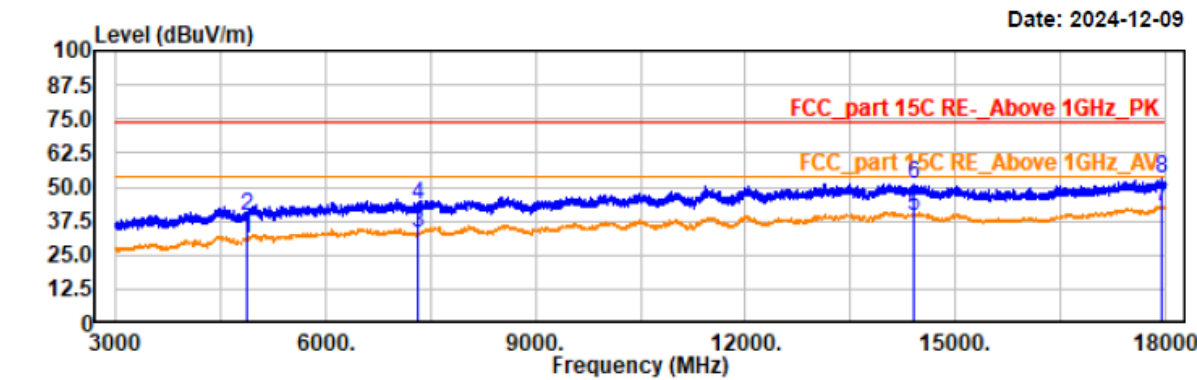
Trace: 1

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
4804.50	33.93	-4.45	29.48	54.00	24.52	vertical	Average
4804.50	43.16	-4.45	38.71	74.00	35.29	vertical	Peak
7206.00	34.49	-1.73	32.76	54.00	21.24	vertical	Average
7206.00	43.95	-1.73	42.22	74.00	31.78	vertical	Peak
14011.50	35.07	5.11	40.18	54.00	13.82	vertical	Average
14011.50	46.69	5.11	51.80	74.00	22.20	vertical	Peak
17847.00	34.07	7.41	41.48	54.00	12.52	vertical	Average
17847.00	45.09	7.41	52.50	74.00	21.50	vertical	Peak

Project No.: 2407V20721E-RF
Test Mode: 1DH1 2441
EUT Model: NLS-NQuire1000
Test distance: 3m

Temp/Humi/ATM: 23.8°C/47%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz

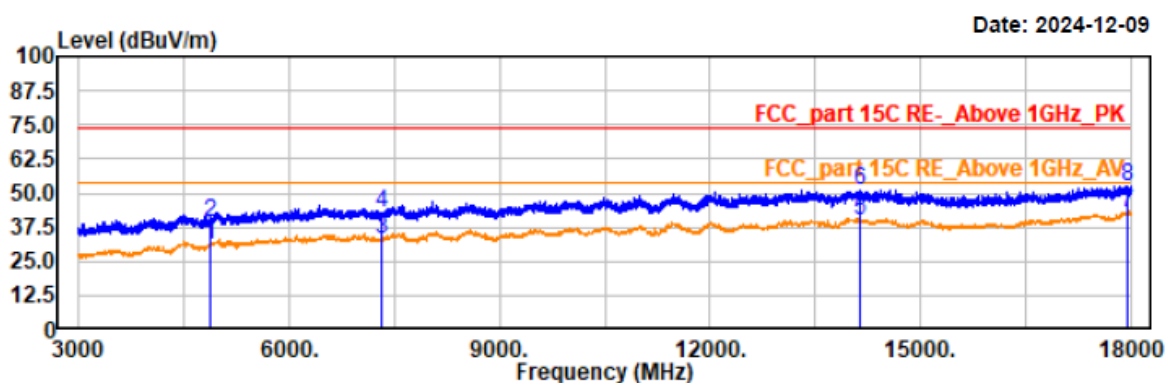


Trace: 1
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4882.50	35.00	-4.24	30.76	54.00	23.24	horizontal	Average
4882.50	43.32	-4.24	39.08	74.00	34.92	horizontal	Peak
7323.00	34.70	-1.61	33.09	54.00	20.91	horizontal	Average
7323.00	44.84	-1.61	43.23	74.00	30.77	horizontal	Peak
14400.00	34.04	5.15	39.19	54.00	14.81	horizontal	Average
14400.00	46.14	5.15	51.29	74.00	22.71	horizontal	Peak
17956.50	35.03	7.68	42.71	54.00	11.29	horizontal	Average
17956.50	45.29	7.68	52.97	74.00	21.03	horizontal	Peak

Project No.: 2407V20721E-RF
Test Mode: 1DH1 2441
EUT Model: NLS-NQuire1000
Test distance: 3m

Temp/Humi/ATM: 23.8°C/47%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



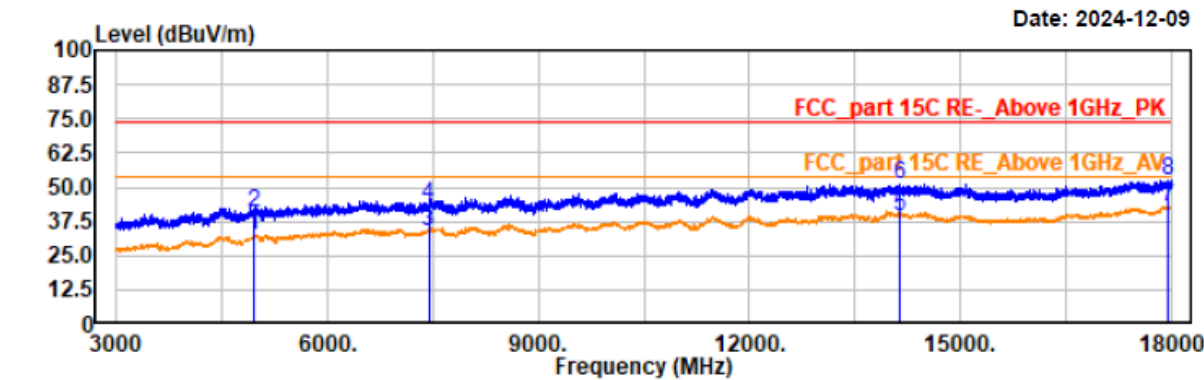
Trace: 1

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
4882.50	34.94	-4.24	30.70	54.00	23.30	vertical	Average
4882.50	43.59	-4.24	39.35	74.00	34.65	vertical	Peak
7323.00	34.74	-1.61	33.13	54.00	20.87	vertical	Average
7323.00	44.49	-1.61	42.88	74.00	31.12	vertical	Peak
14146.50	34.52	5.25	39.77	54.00	14.23	vertical	Average
14146.50	45.89	5.25	51.14	74.00	22.86	vertical	Peak
17961.00	35.06	7.68	42.74	54.00	11.26	vertical	Average
17961.00	44.97	7.68	52.65	74.00	21.35	vertical	Peak

Project No.: 2407V20721E-RF
Test Mode: 1DH1 2480
EUT Model: NLS-NQuire1000
Test distance: 3m

Temp/Humi/ATM: 23.8℃/47%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz

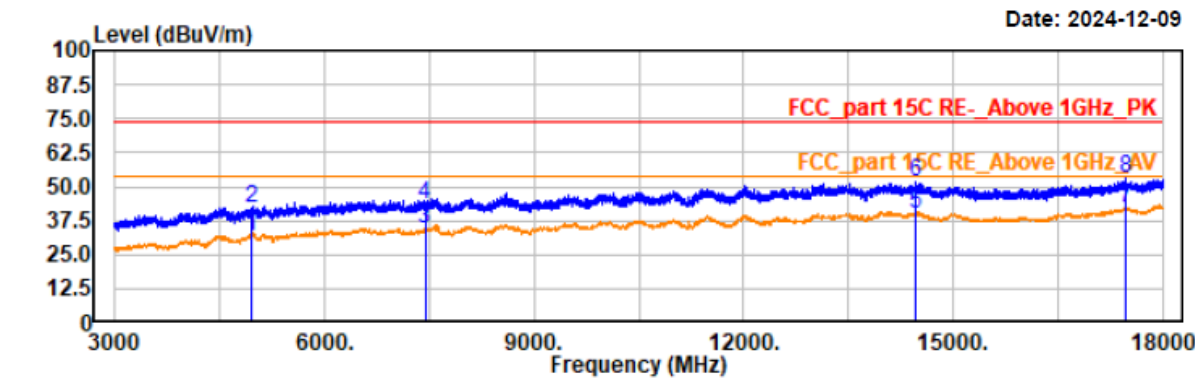


Trace: 1
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
 AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4960.50	36.23	-4.01	32.22	54.00	21.78	horizontal	Average
4960.50	44.47	-4.01	40.46	74.00	33.54	horizontal	Peak
7440.00	35.57	-1.59	33.98	54.00	20.02	horizontal	Average
7440.00	45.04	-1.59	43.45	74.00	30.55	horizontal	Peak
14128.50	34.39	5.24	39.63	54.00	14.37	horizontal	Average
14128.50	46.04	5.24	51.28	74.00	22.72	horizontal	Peak
17958.00	34.95	7.68	42.63	54.00	11.37	horizontal	Average
17958.00	44.78	7.68	52.46	74.00	21.54	horizontal	Peak

Project No.: 2407V20721E-RF
Test Mode: 1DH1 2480
EUT Model: NLS-NQuire1000
Test distance: 3m

Temp/Humi/ATM: 23.8℃/47%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz

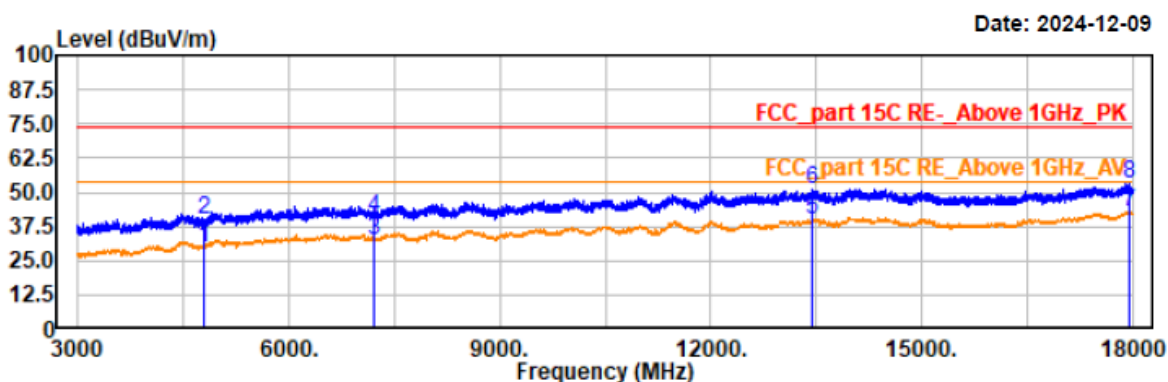


Trace: 1
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4960.50	35.83	-4.01	31.82	54.00	22.18	vertical	Average
4960.50	46.09	-4.01	42.08	74.00	31.92	vertical	Peak
7440.00	35.76	-1.59	34.17	54.00	19.83	vertical	Average
7440.00	44.80	-1.59	43.21	74.00	30.79	vertical	Peak
14449.50	34.70	5.06	39.76	54.00	14.24	vertical	Average
14449.50	46.86	5.06	51.92	74.00	22.08	vertical	Peak
17470.50	35.66	6.21	41.87	54.00	12.13	vertical	Average
17470.50	47.11	6.21	53.32	74.00	20.68	vertical	Peak

Project No.: 2407V20721E-RF
Test Mode: 2DH1 2402
EUT Model: NLS-NQuire1000
Test distance: 3m

Temp/Humi/ATM: 23.8°C/47%/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
4804.50	34.13	-4.45	29.68	54.00	24.32	horizontal	Average
4804.50	44.19	-4.45	39.74	74.00	34.26	horizontal	Peak
7206.00	34.25	-1.73	32.52	54.00	21.48	horizontal	Average
7206.00	42.70	-1.73	40.97	74.00	33.03	horizontal	Peak
13450.50	34.87	4.82	39.69	54.00	14.31	horizontal	Average
13450.50	46.39	4.82	51.21	74.00	22.79	horizontal	Peak
17955.00	34.85	7.68	42.53	54.00	11.47	horizontal	Average
17955.00	45.47	7.68	53.15	74.00	20.85	horizontal	Peak

Project No.: 2407V20721E-RF

Test Mode: 2DH1 2402

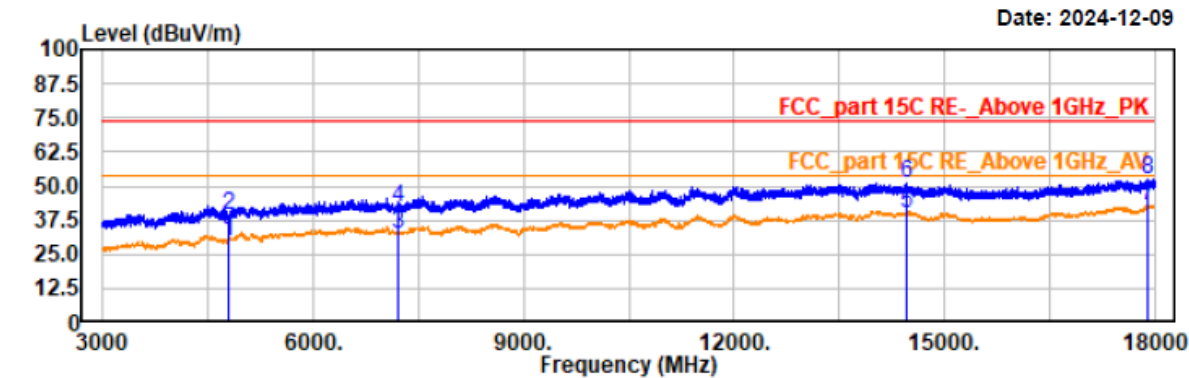
EUT Model: NLS-NQuire1000

Test distance: 3m

Temp/Humi/ATM: 23.8℃/47%/100.1kPa

Tested by: Wlif Wu

Power Source: AC120V/60Hz

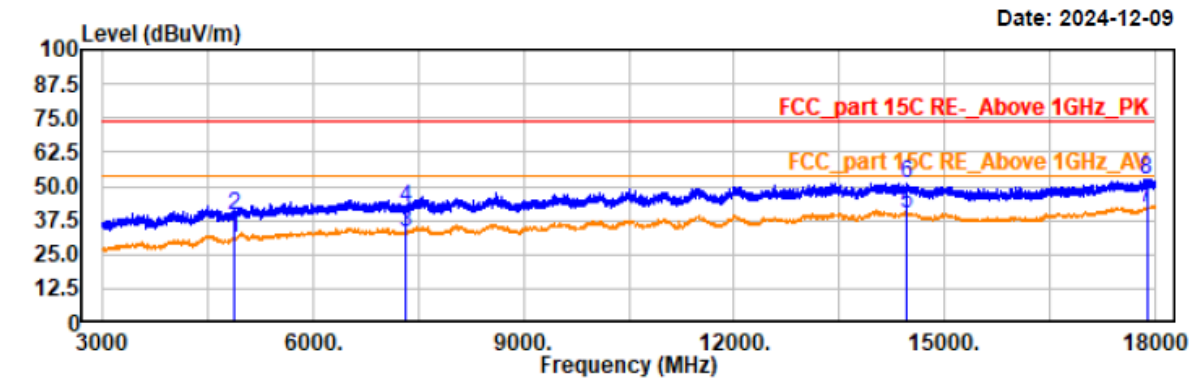


Trace: 1
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4804.50	34.36	-4.45	29.91	54.00	24.09	vertical	Average
4804.50	43.45	-4.45	39.00	74.00	35.00	vertical	Peak
7206.00	34.30	-1.73	32.57	54.00	21.43	vertical	Average
7206.00	43.58	-1.73	41.85	74.00	32.15	vertical	Peak
14449.50	34.75	5.06	39.81	54.00	14.19	vertical	Average
14449.50	45.82	5.06	50.88	74.00	23.12	vertical	Peak
17901.00	34.89	7.59	42.48	54.00	11.52	vertical	Average
17901.00	44.98	7.59	52.57	74.00	21.43	vertical	Peak

Project No.: 2407V20721E-RF
Test Mode: 2DH1 2441
EUT Model: NLS-NQuire1000
Test distance: 3m

Temp/Humi/ATM: 23.8℃/47%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz

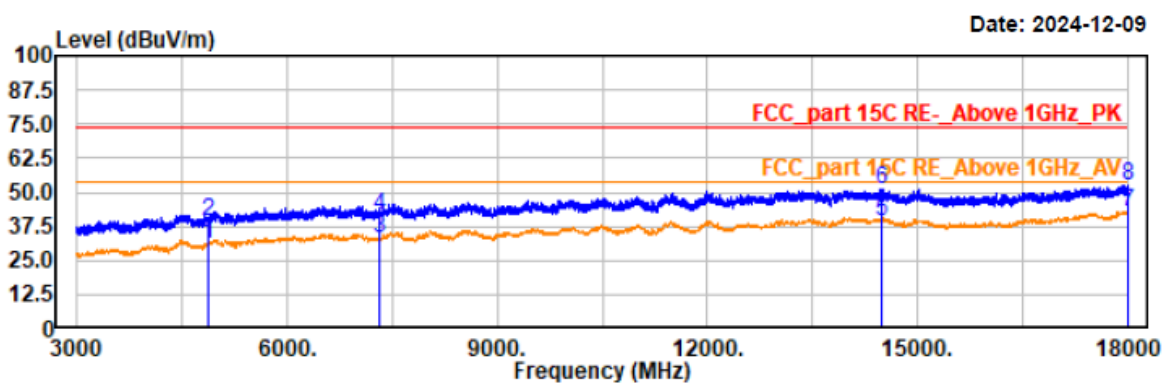


Trace: 1
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
 AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4882.50	35.05	-4.24	30.81	54.00	23.19	horizontal	Average
4882.50	43.44	-4.24	39.20	74.00	34.80	horizontal	Peak
7323.00	34.93	-1.61	33.32	54.00	20.68	horizontal	Average
7323.00	43.35	-1.61	41.74	74.00	32.26	horizontal	Peak
14458.50	34.88	5.04	39.92	54.00	14.08	horizontal	Average
14458.50	45.98	5.04	51.02	74.00	22.98	horizontal	Peak
17884.50	34.32	7.53	41.85	54.00	12.15	horizontal	Average
17884.50	45.13	7.53	52.66	74.00	21.34	horizontal	Peak

Project No.: 2407V20721E-RF
Test Mode: 2DH1 2441
EUT Model: NLS-NQuire1000
Test distance: 3m

Temp/Humi/ATM: 23.8°C/47%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



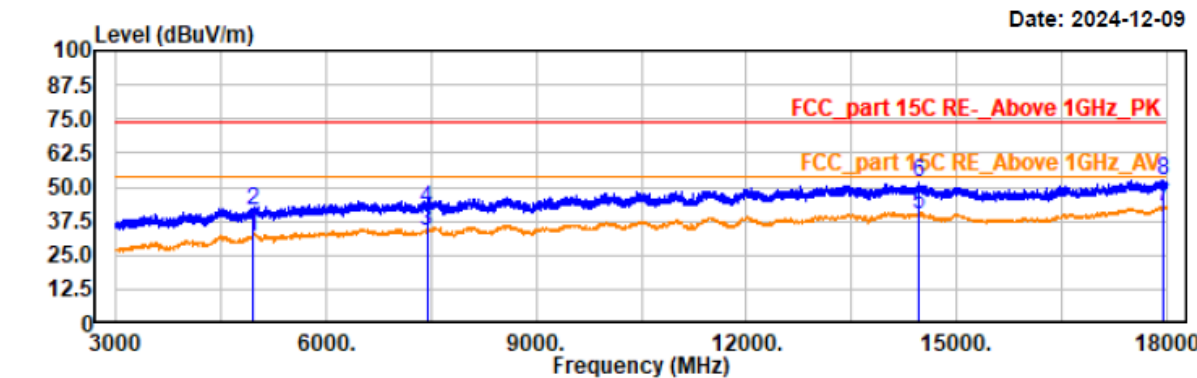
Trace: 1

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
4882.50	34.95	-4.24	30.71	54.00	23.29	vertical	Average
4882.50	43.39	-4.24	39.15	74.00	34.85	vertical	Peak
7323.00	34.71	-1.61	33.10	54.00	20.90	vertical	Average
7323.00	42.92	-1.61	41.31	74.00	32.69	vertical	Peak
14476.50	34.62	5.02	39.64	54.00	14.36	vertical	Average
14476.50	46.25	5.02	51.27	74.00	22.73	vertical	Peak
17998.50	35.16	7.74	42.90	54.00	11.10	vertical	Average
17998.50	44.96	7.74	52.70	74.00	21.30	vertical	Peak

Project No.: 2407V20721E-RF
Test Mode: 2DH1 2480
EUT Model: NLS-NQuire1000
Test distance: 3m

Temp/Humi/ATM: 23.8℃/47%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz

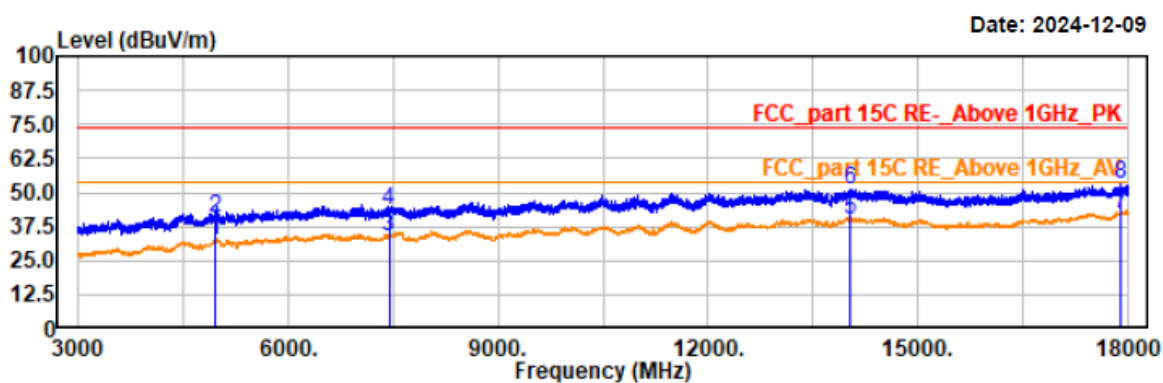


Trace: 1
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4960.50	35.81	-4.01	31.80	54.00	22.20	horizontal	Average
4960.50	45.11	-4.01	41.10	74.00	32.90	horizontal	Peak
7440.00	35.42	-1.59	33.83	54.00	20.17	horizontal	Average
7440.00	43.76	-1.59	42.17	74.00	31.83	horizontal	Peak
14449.50	35.13	5.06	40.19	54.00	13.81	horizontal	Average
14449.50	46.67	5.06	51.73	74.00	22.27	horizontal	Peak
17961.00	35.09	7.68	42.77	54.00	11.23	horizontal	Average
17961.00	44.96	7.68	52.64	74.00	21.36	horizontal	Peak

Project No.: 2407V20721E-RF
Test Mode: 2DH1 2480
EUT Model: NLS-NQuire1000
Test distance: 3m

Temp/Humi/ATM: 23.8°C/47%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Trace: 1

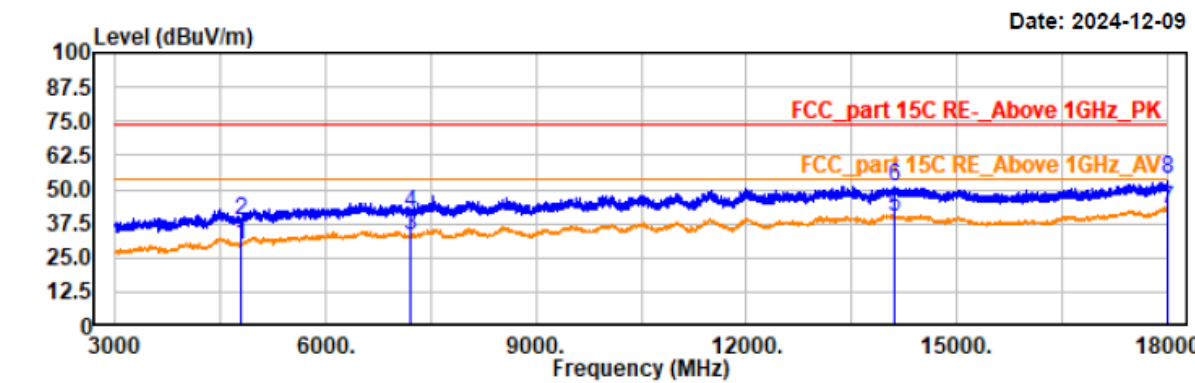
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

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

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4960.50	36.53	-4.01	32.52	54.00	21.48	vertical	Average
4960.50	44.63	-4.01	40.62	74.00	33.38	vertical	Peak
7440.00	35.58	-1.59	33.99	54.00	20.01	vertical	Average
7440.00	45.26	-1.59	43.67	74.00	30.33	vertical	Peak
14040.00	34.65	5.15	39.80	54.00	14.20	vertical	Average
14040.00	45.98	5.15	51.13	74.00	22.87	vertical	Peak
17896.50	34.73	7.58	42.31	54.00	11.69	vertical	Average
17896.50	45.42	7.58	53.00	74.00	21.00	vertical	Peak

Project No.: 2407V20721E-RF
Test Mode: 3DH1 2402
EUT Model: NLS-NQuire1000
Test distance: 3m

Temp/Humi/ATM: 23.8℃/47%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz

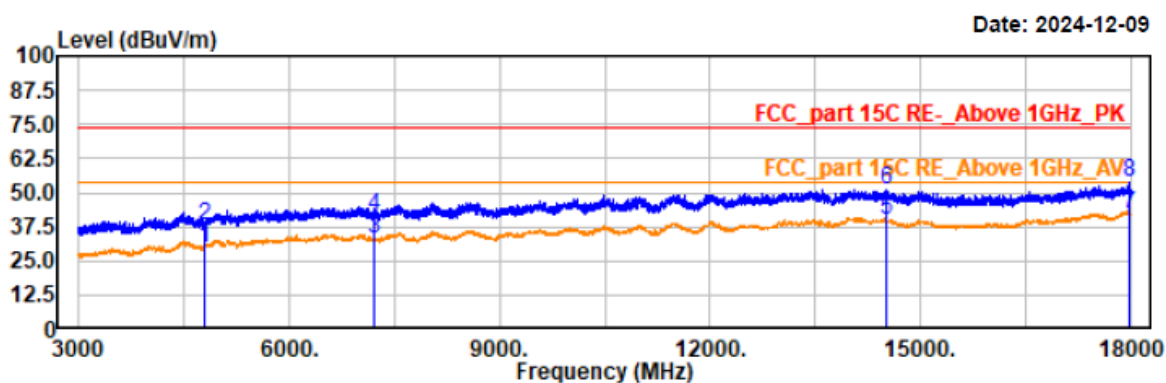


Trace: 1
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4804.50	34.24	-4.45	29.79	54.00	24.21	horizontal	Average
4804.50	42.90	-4.45	38.45	74.00	35.55	horizontal	Peak
7206.00	34.50	-1.73	32.77	54.00	21.23	horizontal	Average
7206.00	43.23	-1.73	41.50	74.00	32.50	horizontal	Peak
14124.00	34.48	5.24	39.72	54.00	14.28	horizontal	Average
14124.00	45.78	5.24	51.02	74.00	22.98	horizontal	Peak
17999.50	34.85	7.74	42.59	54.00	11.41	horizontal	Average
17999.50	45.90	7.74	53.64	74.00	20.36	horizontal	Peak

Project No.: 2407V20721E-RF
Test Mode: 3DH1 2402
EUT Model: NLS-NQuire1000
Test distance: 3m

Temp/Humi/ATM: 23.8°C/47%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Trace: 1

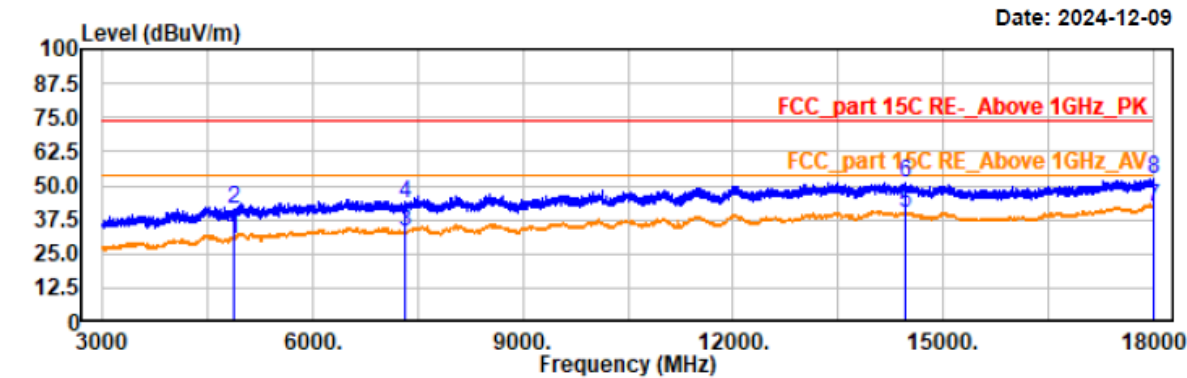
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

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

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4804.50	34.25	-4.45	29.80	54.00	24.20	vertical	Average
4804.50	42.20	-4.45	37.75	74.00	36.25	vertical	Peak
7206.00	34.51	-1.73	32.78	54.00	21.22	vertical	Average
7206.00	43.18	-1.73	41.45	74.00	32.55	vertical	Peak
14502.00	35.06	4.98	40.04	54.00	13.96	vertical	Average
14502.00	46.04	4.98	51.02	74.00	22.98	vertical	Peak
17974.50	34.58	7.70	42.28	54.00	11.72	vertical	Average
17974.50	45.83	7.70	53.53	74.00	20.47	vertical	Peak

Project No.: 2407V20721E-RF
Test Mode: 3DH1 2441
EUT Model: NLS-NQuire1000
Test distance: 3m

Temp/Humi/ATM: 23.8℃/47%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz

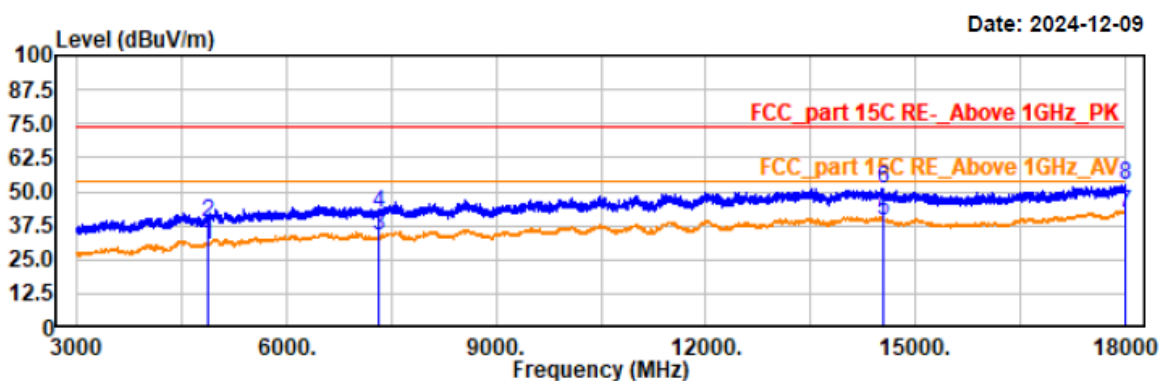


Trace: 1
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
 AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4882.50	34.85	-4.24	30.61	54.00	23.39	horizontal	Average
4882.50	45.67	-4.24	41.43	74.00	32.57	horizontal	Peak
7323.00	34.76	-1.61	33.15	54.00	20.85	horizontal	Average
7323.00	45.01	-1.61	43.40	74.00	30.60	horizontal	Peak
14467.50	34.79	5.03	39.82	54.00	14.18	horizontal	Average
14467.50	46.07	5.03	51.10	74.00	22.90	horizontal	Peak
17998.50	34.53	7.74	42.27	54.00	11.73	horizontal	Average
17998.50	44.73	7.74	52.47	74.00	21.53	horizontal	Peak

Project No.: 2407V20721E-RF
Test Mode: 3DH1 2441
EUT Model: NLS-NQuire1000
Test distance: 3m

Temp/Humi/ATM: 23.8°C/47%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



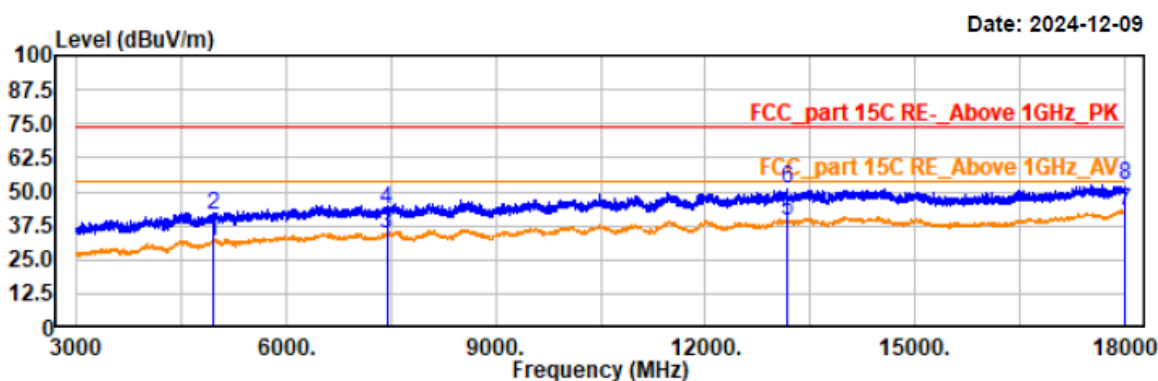
Trace: 1

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
4882.50	34.75	-4.24	30.51	54.00	23.49	vertical	Average
4882.50	43.12	-4.24	38.88	74.00	35.12	vertical	Peak
7323.00	35.25	-1.61	33.64	54.00	20.36	vertical	Average
7323.00	43.79	-1.61	42.18	74.00	31.82	vertical	Peak
14535.00	34.67	4.95	39.62	54.00	14.38	vertical	Average
14535.00	46.23	4.95	51.18	74.00	22.82	vertical	Peak
17997.00	34.36	7.74	42.10	54.00	11.90	vertical	Average
17997.00	44.90	7.74	52.64	74.00	21.36	vertical	Peak

Project No.: 2407V20721E-RF
Test Mode: 3DH1 2480
EUT Model: NLS-NQuire1000
Test distance: 3m

Temp/Humi/ATM: 23.8°C/47%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



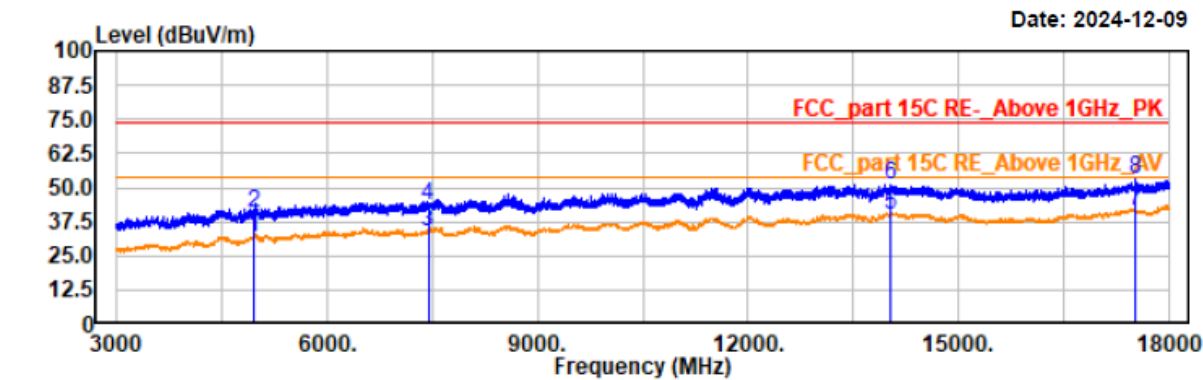
Trace: 1

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
4960.50	36.07	-4.01	32.06	54.00	21.94	horizontal	Average
4960.50	45.56	-4.01	41.55	74.00	32.45	horizontal	Peak
7440.00	35.97	-1.59	34.38	54.00	19.62	horizontal	Average
7440.00	44.91	-1.59	43.32	74.00	30.68	horizontal	Peak
13161.00	34.12	5.06	39.18	54.00	14.82	horizontal	Average
13161.00	45.88	5.06	50.94	74.00	23.06	horizontal	Peak
17999.50	34.88	7.74	42.62	54.00	11.38	horizontal	Average
17999.50	44.80	7.74	52.54	74.00	21.46	horizontal	Peak

Project No.: 2407V20721E-RF
Test Mode: 3DH1 2480
EUT Model: NLS-NQuire1000
Test distance: 3m

Temp/Humi/ATM: 23.8℃/47%/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
4960.50	35.88	-4.01	31.87	54.00	22.13	vertical	Average
4960.50	44.68	-4.01	40.67	74.00	33.33	vertical	Peak
7440.00	35.72	-1.59	34.13	54.00	19.87	vertical	Average
7440.00	45.33	-1.59	43.74	74.00	30.26	vertical	Peak
14043.00	34.90	5.15	40.05	54.00	13.95	vertical	Average
14043.00	45.83	5.15	50.98	74.00	23.02	vertical	Peak
17511.00	34.98	6.32	41.30	54.00	12.70	vertical	Average
17511.00	46.45	6.32	52.77	74.00	21.23	vertical	Peak

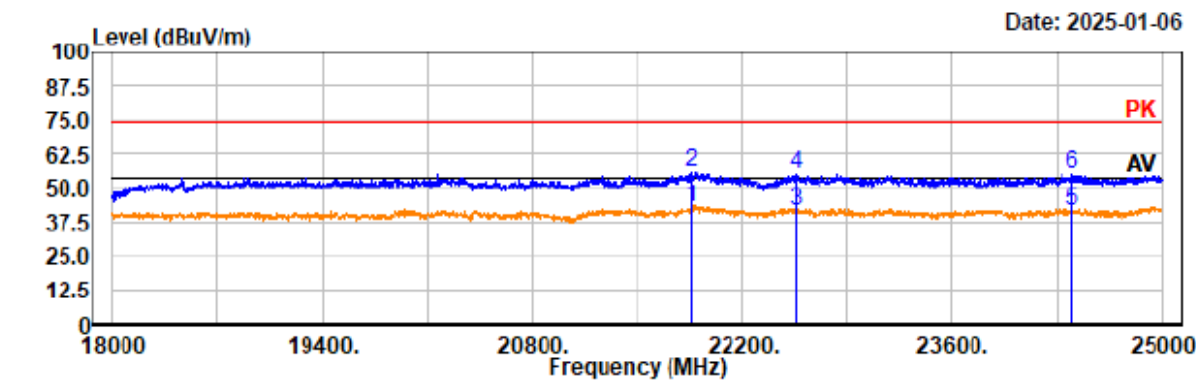
6) 18 GHz - 25 GHz

Note: The maximum output power mode: EDR($\pi/4$ -DQPSK) high channel was tested.

EUT Model: NLS-NQuire1500

Project No.: 2407V20721E-RF
Test Mode: 2DH1-2480
EUT Model: NLS-NQuire1500
Test distance: 1.5m

Temp/Humi/ATM: 21.5°C/52%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



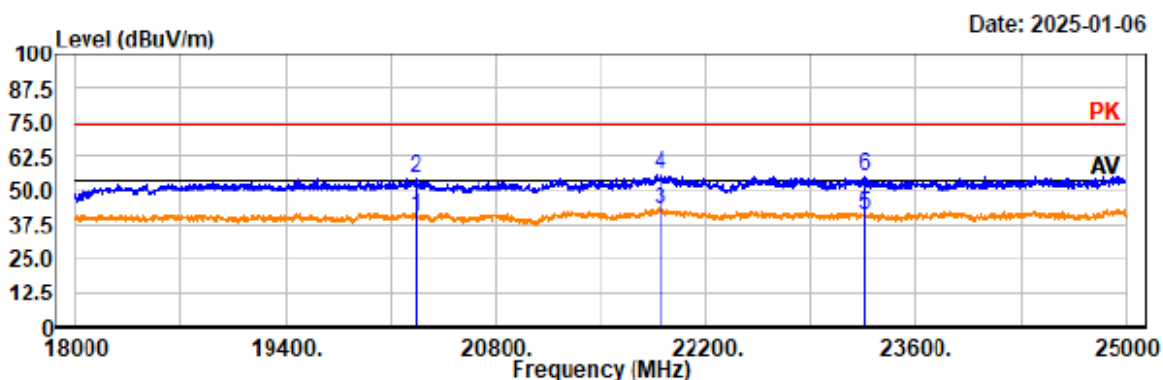
Trace: 1

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
21852.20	37.48	5.03	42.51	54.00	11.49	horizontal	Average
21852.20	50.56	5.03	55.59	74.00	18.41	horizontal	Peak
22560.60	36.35	5.07	41.42	54.00	12.58	horizontal	Average
22560.60	49.77	5.07	54.84	74.00	19.16	horizontal	Peak
24402.00	35.25	6.08	41.33	54.00	12.67	horizontal	Average
24402.00	48.94	6.08	55.02	74.00	18.98	horizontal	Peak

Project No.: 2407V20721E-RF
Test Mode: 2DH1-2480
EUT Model: NLS-NQuire1500
Test distance: 1.5m

Temp/Humi/ATM: 21.5°C/52%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/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
20263.80	36.04	3.94	39.98	54.00	14.02	vertical	Average
20263.80	50.36	3.94	54.30	74.00	19.70	vertical	Peak
21894.00	37.55	5.19	42.74	54.00	11.26	vertical	Average
21894.00	50.88	5.19	56.07	74.00	17.93	vertical	Peak
23264.60	35.78	4.88	40.66	54.00	13.34	vertical	Average
23264.60	50.18	4.88	55.06	74.00	18.94	vertical	Peak

EUT Model: NLS-NQuire500

Project No.: 2407V20721E-RF

Test Mode: 2DH1-2480

EUT Model: NLS-NQuire500

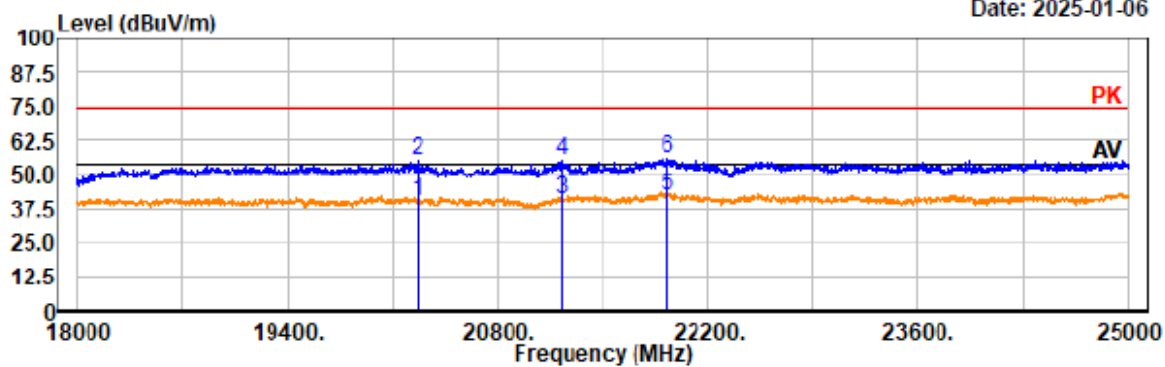
Test distance: 1.5m

Temp/Humi/ATM: 21.5°C/52%/100.1kPa

Tested by: Wlif Wu

Power Source: AC 120V/60Hz

Date: 2025-01-06



Trace: 1

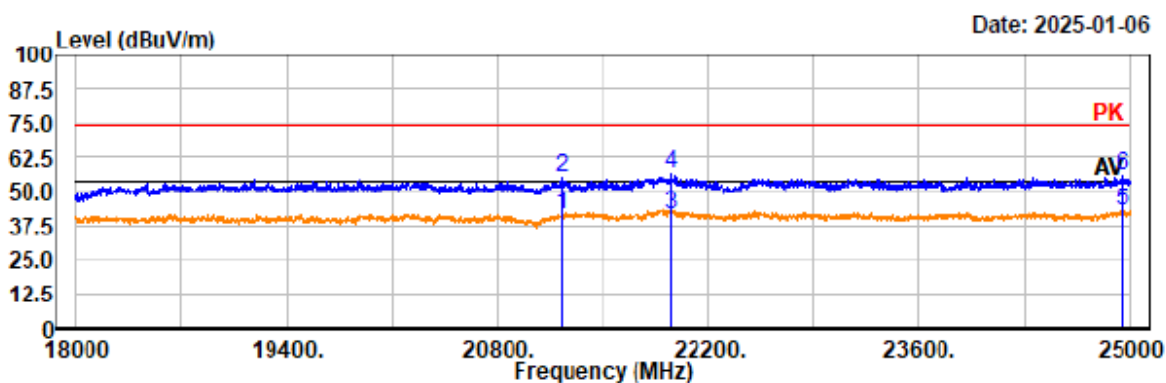
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

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

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
20268.20	36.20	3.95	40.15	54.00	13.85	horizontal	Average
20268.20	51.29	3.95	55.24	74.00	18.76	horizontal	Peak
21234.00	36.72	4.20	40.92	54.00	13.08	horizontal	Average
21234.00	50.80	4.20	55.00	74.00	19.00	horizontal	Peak
21935.80	36.55	5.20	41.75	54.00	12.25	horizontal	Average
21935.80	50.43	5.20	55.63	74.00	18.37	horizontal	Peak

Project No.: 2407V20721E-RF
Test Mode: 2DH1-2480
EUT Model: NLS-NQuire500
Test distance: 1.5m

Temp/Humi/ATM: 21.5°C/52%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

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

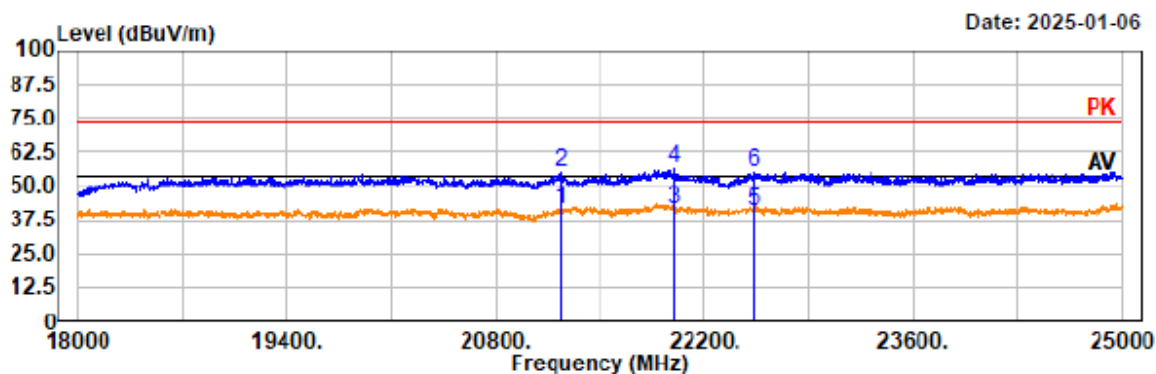
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
21234.00	37.30	4.20	41.50	54.00	12.50	vertical	Average
21234.00	50.87	4.20	55.07	74.00	18.93	vertical	Peak
21962.20	36.50	5.22	41.72	54.00	12.28	vertical	Average
21962.20	51.00	5.22	56.22	74.00	17.78	vertical	Peak
24952.00	36.23	6.32	42.55	54.00	11.45	vertical	Average
24952.00	49.77	6.32	56.09	74.00	17.91	vertical	Peak

EUT Model: NLS-NQuire700

Project No.: 2407V20721E-RF
Test Mode: 2DH1-2480
EUT Model: NLS-NQuire700
Test distance: 1.5m

Temp/Humi/ATM: 21.5°C/52%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

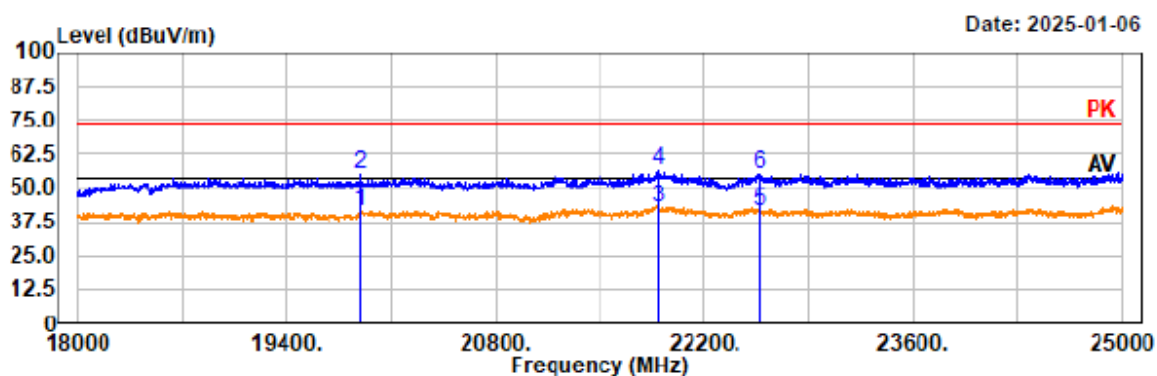
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

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

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
21242.80	37.29	4.22	41.51	54.00	12.49	horizontal	Average
21242.80	51.27	4.22	55.49	74.00	18.51	horizontal	Peak
21999.60	36.44	5.24	41.68	54.00	12.32	horizontal	Average
21999.60	50.99	5.24	56.23	74.00	17.77	horizontal	Peak
22538.60	35.86	5.08	40.94	54.00	13.06	horizontal	Average
22538.60	50.21	5.08	55.29	74.00	18.71	horizontal	Peak

Project No.: 2407V20721E-RF
Test Mode: 2DH1-2480
EUT Model: NLS-NQuire700
Test distance: 1.5m

Temp/Humi/ATM: 21.5°C/52%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

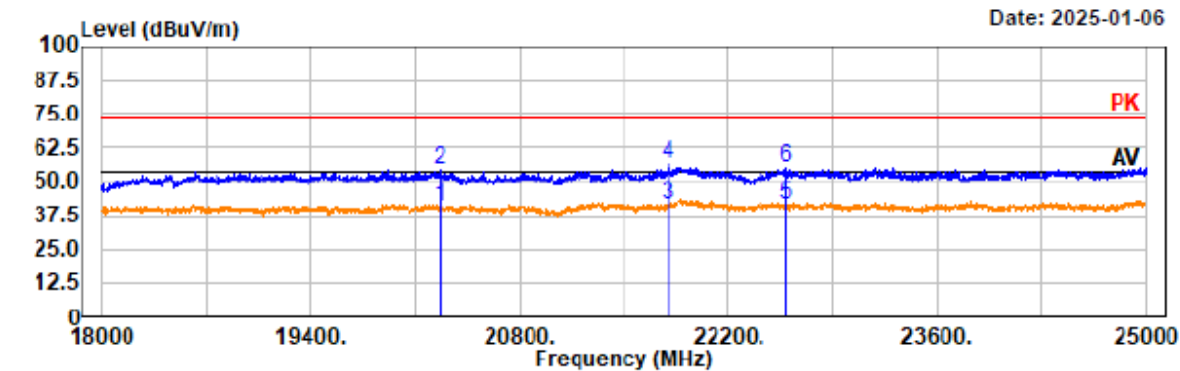
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
19889.80	38.16	3.46	41.62	54.00	12.38	vertical	Average
19889.80	51.47	3.46	54.93	74.00	19.07	vertical	Peak
21896.20	37.36	5.19	42.55	54.00	11.45	vertical	Average
21896.20	51.05	5.19	56.24	74.00	17.76	vertical	Peak
22567.20	36.29	5.07	41.36	54.00	12.64	vertical	Average
22567.20	50.31	5.07	55.38	74.00	18.62	vertical	Peak

EUT Model: NLS-NQuire1000

Project No.: 2407V20721E-RF
Test Mode: 2DH1-2480
EUT Model: NLS-NQuire1000
Test distance: 1.5m

Temp/Humi/ATM: 21.5°C/52%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



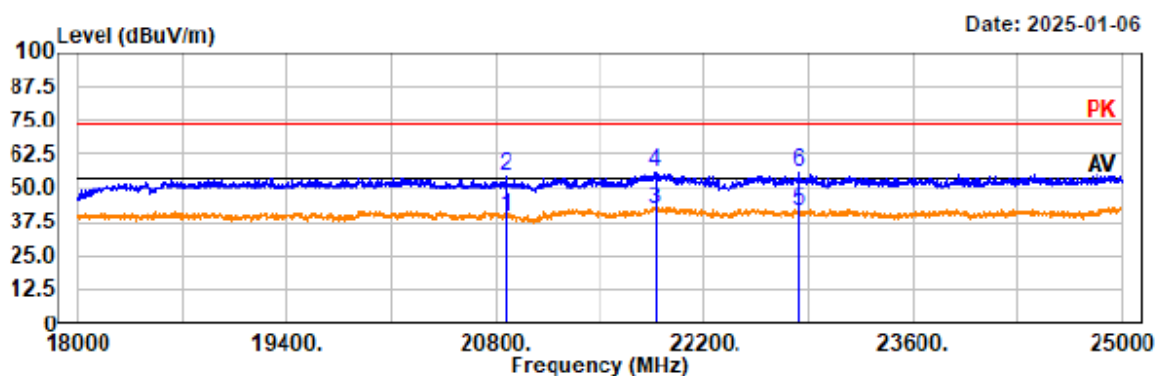
Trace: 1

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
20263.80	36.56	3.94	40.50	54.00	13.50	horizontal	Average
20263.80	50.61	3.94	54.55	74.00	19.45	horizontal	Peak
21799.40	36.22	5.02	41.24	54.00	12.76	horizontal	Average
21799.40	51.24	5.02	56.26	74.00	17.74	horizontal	Peak
22584.80	36.12	5.07	41.19	54.00	12.81	horizontal	Average
22584.80	50.39	5.07	55.46	74.00	18.54	horizontal	Peak

Project No.: 2407V20721E-RF
Test Mode: 2DH1-2480
EUT Model: NLS-NQuire1000
Test distance: 1.5m

Temp/Humi/ATM: 21.5°C/52%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

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

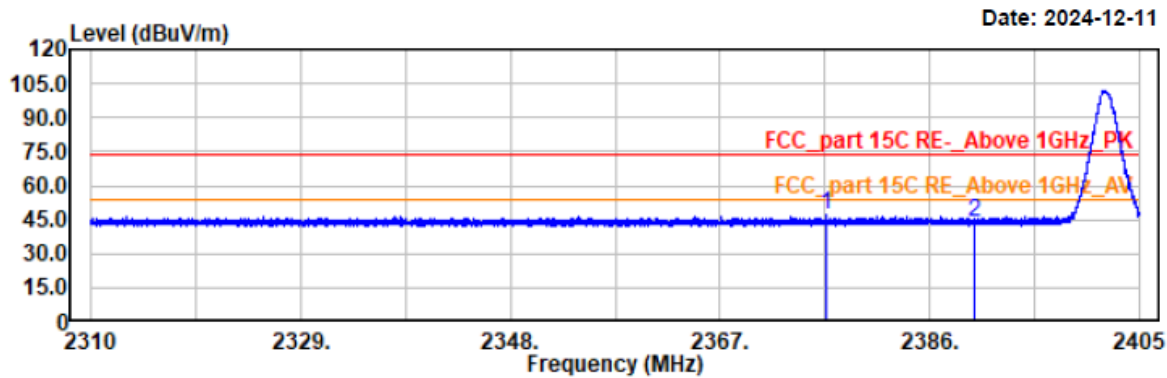
Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
20864.40	35.62	3.56	39.18	54.00	14.82	vertical	Average
20864.40	50.82	3.56	54.38	74.00	19.62	vertical	Peak
21876.40	36.82	5.25	42.07	54.00	11.93	vertical	Average
21876.40	50.48	5.25	55.73	74.00	18.27	vertical	Peak
22831.20	36.34	5.01	41.35	54.00	12.65	vertical	Average
22831.20	50.53	5.01	55.54	74.00	18.46	vertical	Peak

Restricted Bands Emissions:

EUT Model: NLS-NQuire1500

Project No.: 2407V20721E-RF
Test Mode: 1DH1 2402
EUT Model: NLS-NQuire1500
Test distance: 3m

Temp/Humi/ATM: 24.1°C/48%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



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
2376.58	47.56	-0.70	46.86	74.00	27.14	horizontal	Peak
2390.00	44.85	-0.63	44.22	74.00	29.78	horizontal	Peak

Project No.: 2407V20721E-RF

Test Mode: 1DH1 2402

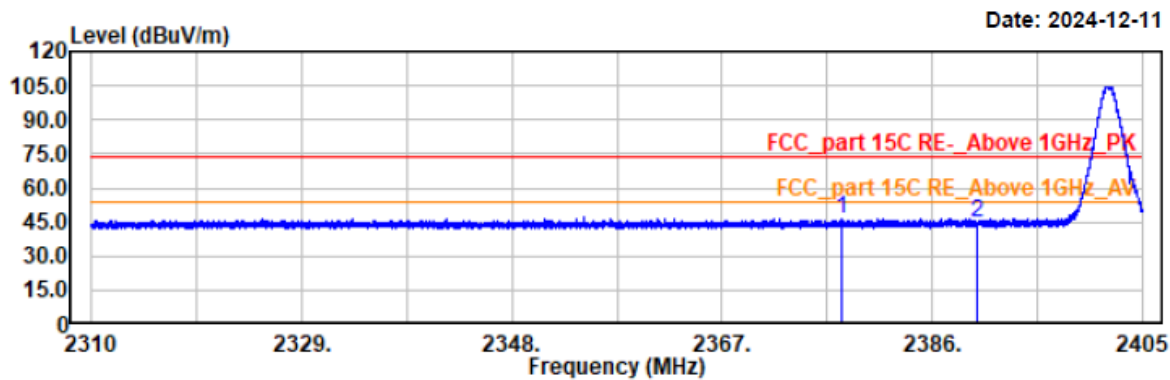
EUT Model: NLS-NQuire1500

Test distance: 3m

Temp/Humi/ATM: 24.1°C/48%/100.1kPa

Tested by: Wlif Wu

Power Source: AC120V/60Hz

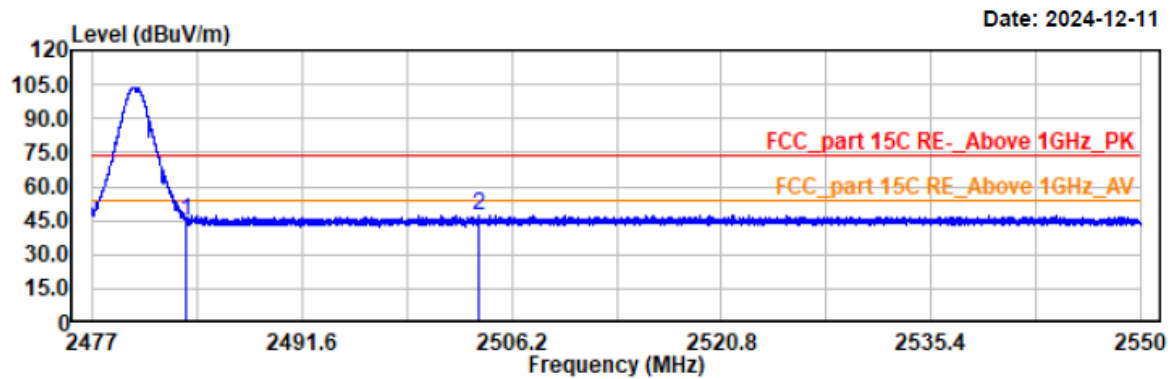


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq	Reading	Factor	Result	Limit	Margin	Polarity	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
2377.91	47.35	-0.70	46.65	74.00	27.35	vertical	Peak
2390.00	45.58	-0.63	44.95	74.00	29.05	vertical	Peak

Project No.: 2407V20721E-RF
Test Mode: 1DH1 2480
EUT Model: NLS-NQuire1500
Test distance: 3m

Temp/Humi/ATM: 24.1°C/48%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz

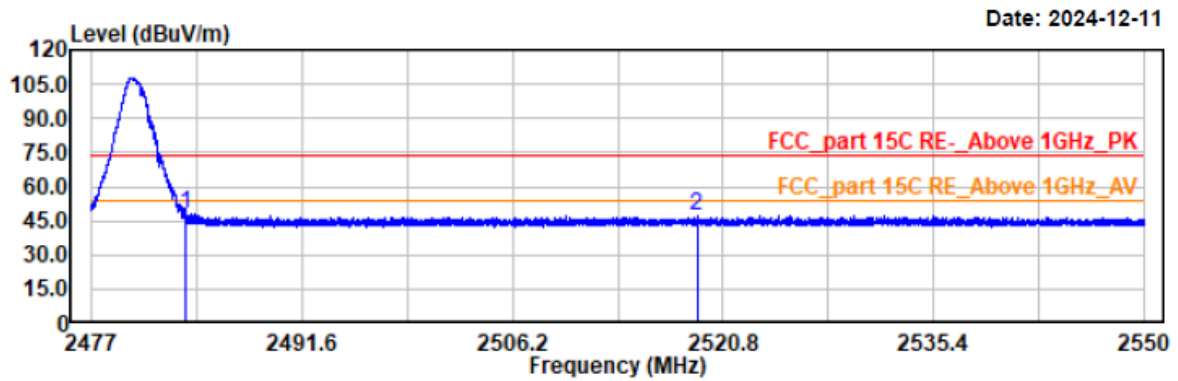


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	44.79	-0.17	44.62	74.00	29.38	horizontal	Peak
2503.86	47.41	-0.07	47.34	74.00	26.66	horizontal	Peak

Project No.: 2407V20721E-RF
Test Mode: 1DH1 2480
EUT Model: NLS-NQuire1500
Test distance: 3m

Temp/Humi/ATM: 24.1°C/48%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



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	47.85	-0.17	47.68	74.00	26.32	vertical	Peak
2518.99	47.17	-0.06	47.11	74.00	26.89	vertical	Peak

Project No.: 2407V20721E-RF

Temp/Humi/ATM: 24.1°C/48%/100.1kPa

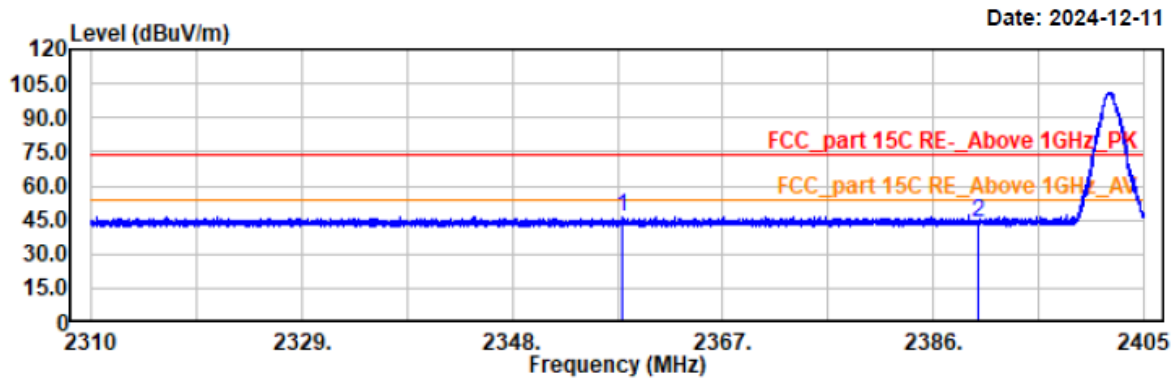
Test Mode: 2DH1 2402

Tested by: Wlif Wu

EUT Model: NLS-NQuire1500

Power Source: AC120V/60Hz

Test distance: 3m



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
2357.94	47.49	-0.80	46.69	74.00	27.31	horizontal	Peak
2390.00	44.85	-0.63	44.22	74.00	29.78	horizontal	Peak

Project No.: 2407V20721E-RF

Temp/Humi/ATM: 24.1°C/48%/100.1kPa

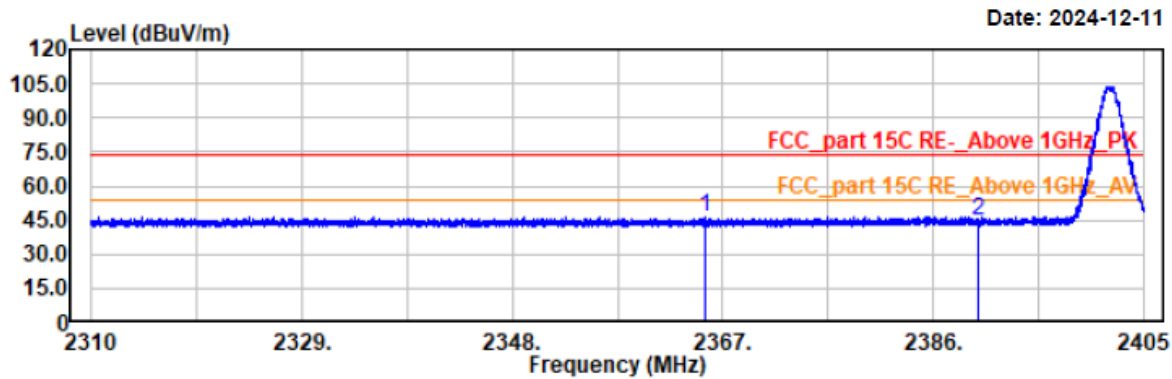
Test Mode: 2DH1 2402

Tested by: Wlif Wu

EUT Model: NLS-NQuire1500

Power Source: AC120V/60Hz

Test distance: 3m



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
2365.42	47.15	-0.76	46.39	74.00	27.61	vertical	Peak
2390.00	45.54	-0.63	44.91	74.00	29.09	vertical	Peak

Project No.: 2407V20721E-RF

Test Mode: 2DH1 2480

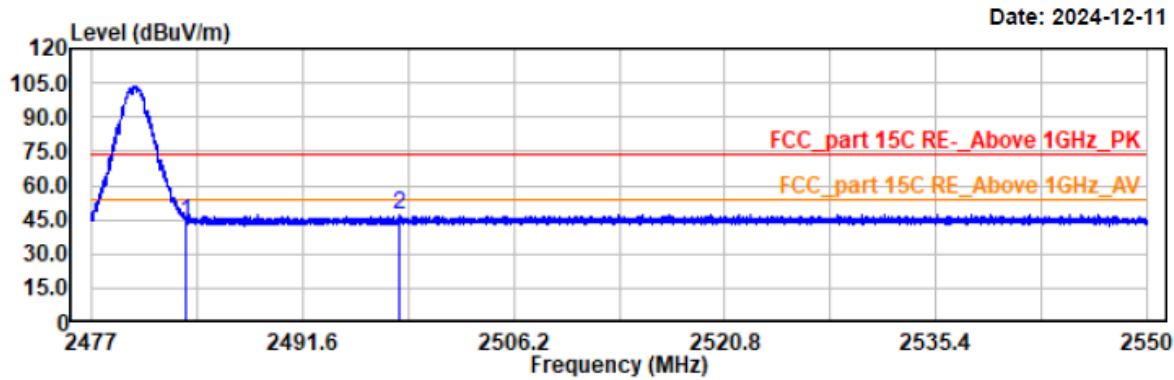
EUT Model: NLS-NQuire1500

Test distance: 3m

Temp/Humi/ATM: 24.1°C/48%/100.1kPa

Tested by: Wlif Wu

Power Source: AC120V/60Hz



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	44.31	-0.17	44.14	74.00	29.86	horizontal	Peak
2498.28	47.44	-0.09	47.35	74.00	26.65	horizontal	Peak

Project No.: 2407V20721E-RF

Temp/Humi/ATM: 24.1°C/48%/100.1kPa

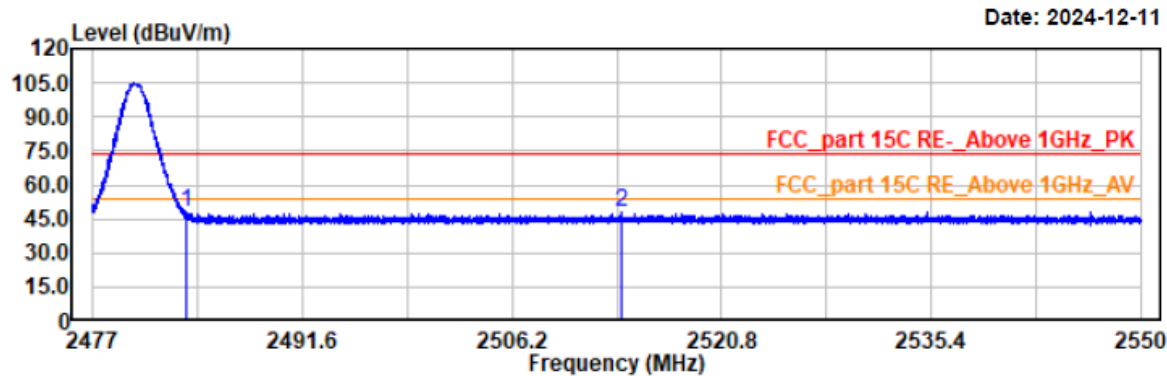
Test Mode: 2DH1 2480

Tested by: Wlif Wu

EUT Model: NLS-NQuire1500

Power Source: AC120V/60Hz

Test distance: 3m



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	47.92	-0.17	47.75	74.00	26.25	vertical	Peak
2513.78	48.29	-0.07	48.22	74.00	25.78	vertical	Peak

Project No.: 2407V20721E-RF

Temp/Humi/ATM: 24.1°C/48%/100.1kPa

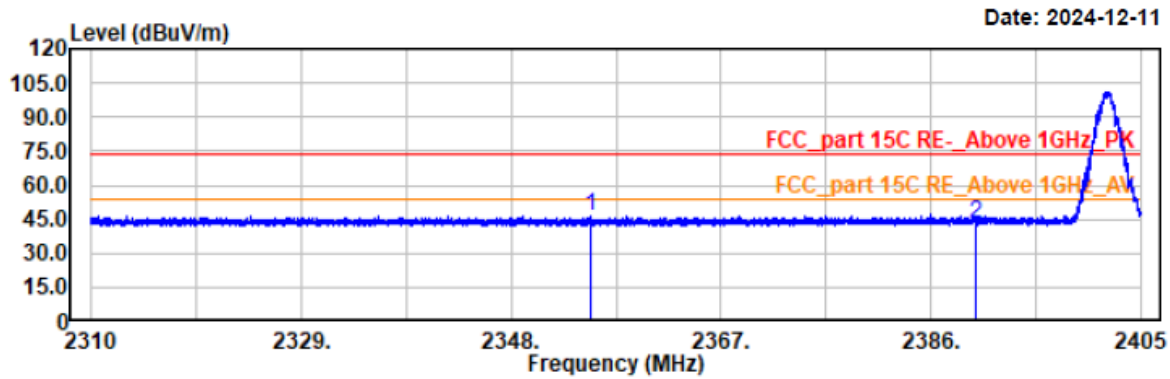
Test Mode: 3DH1 2402

Tested by: Wlif Wu

EUT Model: NLS-NQuire1500

Power Source: AC120V/60Hz

Test distance: 3m

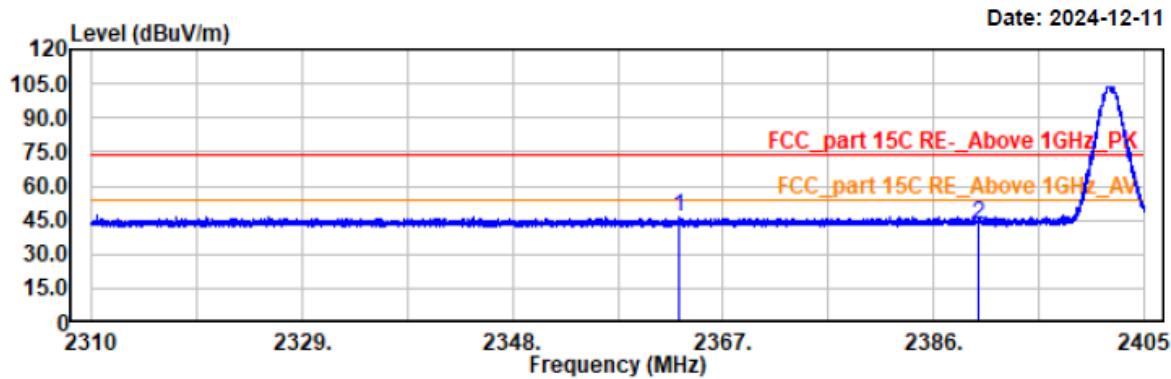


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2355.21	47.01	-0.81	46.20	74.00	27.80	horizontal	Peak
2390.00	43.42	-0.63	42.79	74.00	31.21	horizontal	Peak

Project No.: 2407V20721E-RF
Test Mode: 3DH1 2402
EUT Model: NLS-NQuire1500
Test distance: 3m

Temp/Humi/ATM: 24.1°C/48%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



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
2362.95	46.85	-0.77	46.08	74.00	27.92	vertical	Peak
2390.00	43.74	-0.63	43.11	74.00	30.89	vertical	Peak

Project No.: 2407V20721E-RF

Test Mode: 3DH1 2480

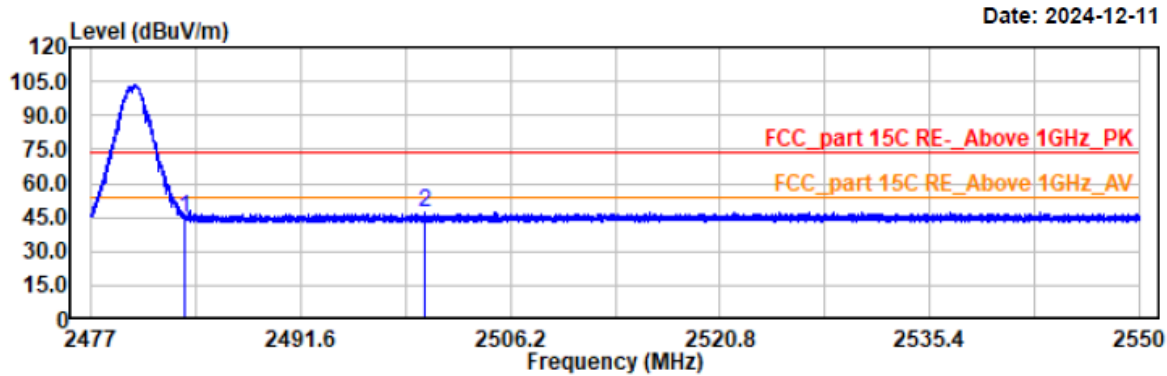
EUT Model: NLS-NQuire1500

Test distance: 3m

Temp/Humi/ATM: 24.1°C/48%/100.1kPa

Tested by: Wlif Wu

Power Source: AC120V/60Hz



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
2483.55	44.52	-0.17	44.35	74.00	29.65	horizontal	Peak
2500.27	47.63	-0.08	47.55	74.00	26.45	horizontal	Peak

Project No.: 2407V20721E-RF

Test Mode: 3DH1 2480

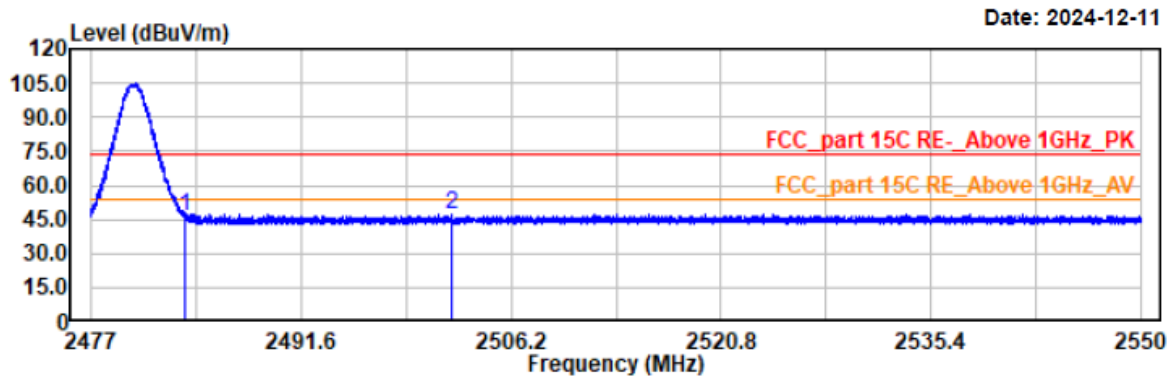
EUT Model: NLS-NQuire1500

Test distance: 3m

Temp/Humi/ATM: 24.1°C/48%/100.1kPa

Tested by: Wlif Wu

Power Source: AC120V/60Hz



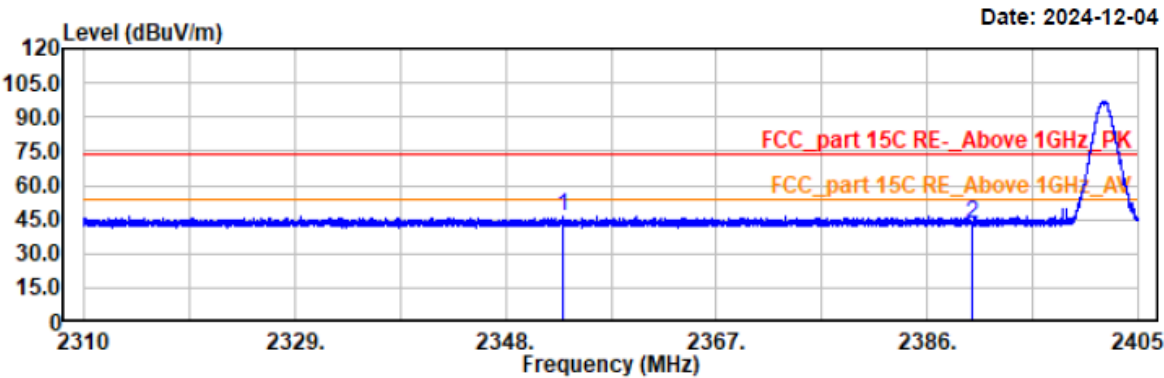
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	46.37	-0.17	46.20	74.00	27.80	vertical	Peak
2502.02	47.49	-0.08	47.41	74.00	26.59	vertical	Peak

EUT Model: NLS-NQuire500

Project No.: 2407V20721E-RF
Test Mode: 1DH1 2402
EUT Model: NLS-NQuire500
Test distance: 3m

Temp/Humi/ATM: 24.7℃/46%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



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
2353.13	46.89	-0.82	46.07	74.00	27.93	horizontal	Peak
2390.00	43.72	-0.63	43.09	74.00	30.91	horizontal	Peak

Project No.: 2407V20721E-RF

Test Mode: 1DH1 2402

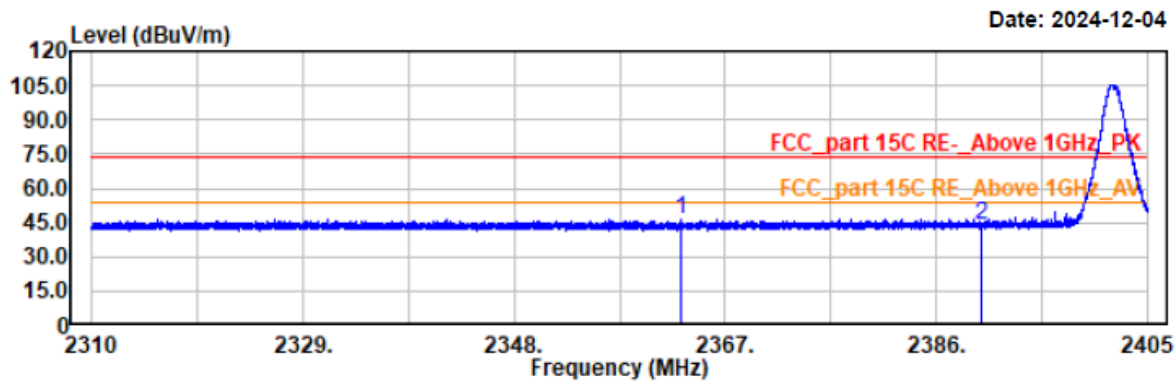
EUT Model: NLS-NQuire500

Test distance: 3m

Temp/Humi/ATM: 24.7℃/46%/100.1kPa

Tested by: Wlif Wu

Power Source: AC120V/60Hz



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
2363.07	47.05	-0.77	46.28	74.00	27.72	vertical	Peak
2390.00	44.25	-0.63	43.62	74.00	30.38	vertical	Peak

Project No.: 2407V20721E-RF

Test Mode: 1DH1 2480

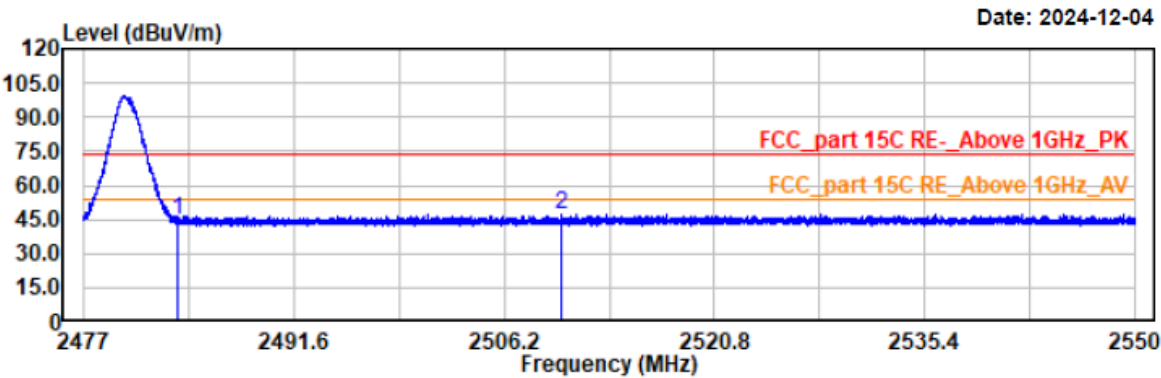
EUT Model: NLS-NQuire500

Test distance: 3m

Temp/Humi/ATM: 24.7℃/46%/100.1kPa

Tested by: Wlif Wu

Power Source: AC120V/60Hz

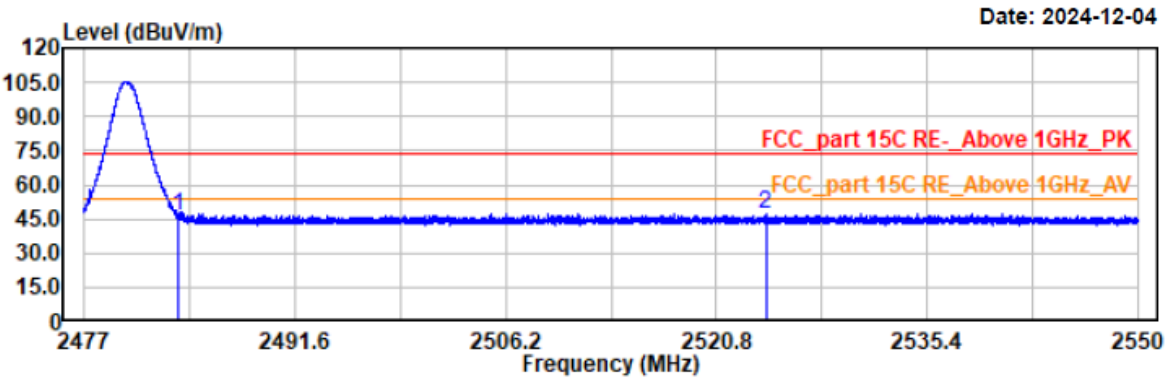


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	44.77	-0.17	44.60	74.00	29.40	horizontal	Peak
2510.14	47.19	-0.07	47.12	74.00	26.88	horizontal	Peak

Project No.: 2407V20721E-RF
Test Mode: 1DH1 2480
EUT Model: NLS-NQuire500
Test distance: 3m

Temp/Humi/ATM: 24.7℃/46%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



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	46.50	-0.17	46.33	74.00	27.67	vertical	Peak
2524.22	47.02	-0.06	46.96	74.00	27.04	vertical	Peak

Project No.: 2407V20721E-RF

Test Mode: 2DH1 2402

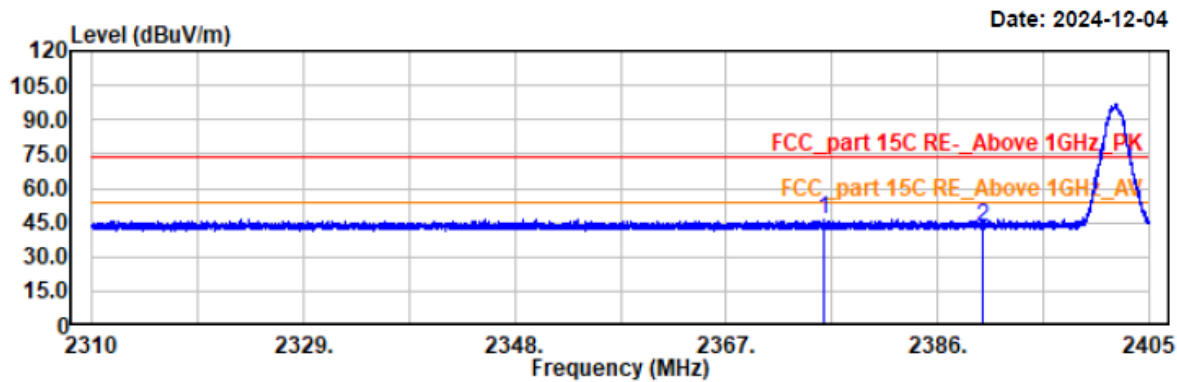
EUT Model: NLS-NQuire500

Test distance: 3m

Temp/Humi/ATM: 24.7℃/46%/100.1kPa

Tested by: Wlif Wu

Power Source: AC120V/60Hz



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
2375.71	46.65	-0.71	45.94	74.00	28.06	horizontal	Peak
2390.00	43.88	-0.63	43.25	74.00	30.75	horizontal	Peak

Project No.: 2407V20721E-RF

Test Mode: 2DH1 2402

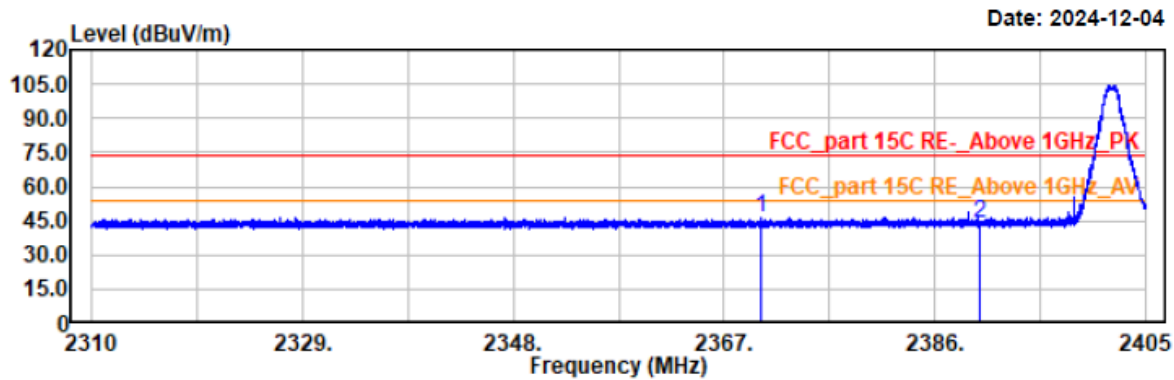
EUT Model: NLS-NQuire500

Test distance: 3m

Temp/Humi/ATM: 24.7℃/46%/100.1kPa

Tested by: Wlif Wu

Power Source: AC120V/60Hz

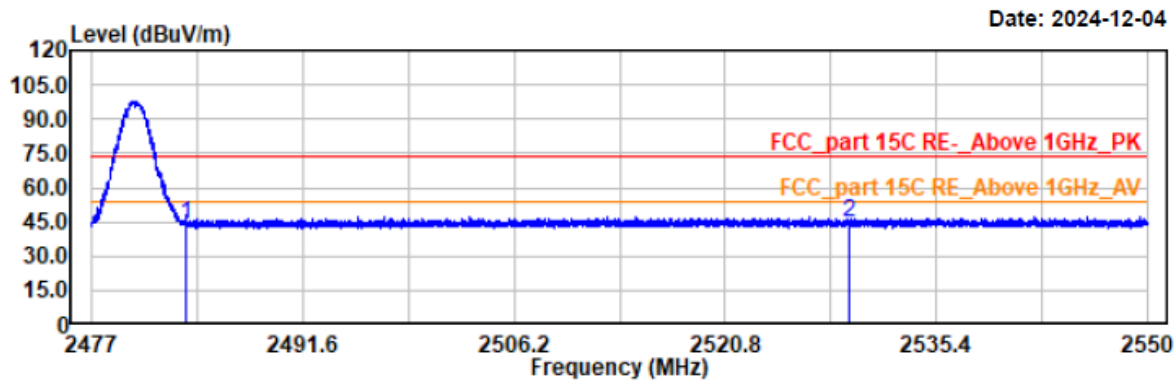


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2370.41	46.92	-0.73	46.19	74.00	27.81	vertical	Peak
2390.00	44.48	-0.63	43.85	74.00	30.15	vertical	Peak

Project No.: 2407V20721E-RF
Test Mode: 2DH1 2480
EUT Model: NLS-NQuire500
Test distance: 3m

Temp/Humi/ATM: 24.7℃/46%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz

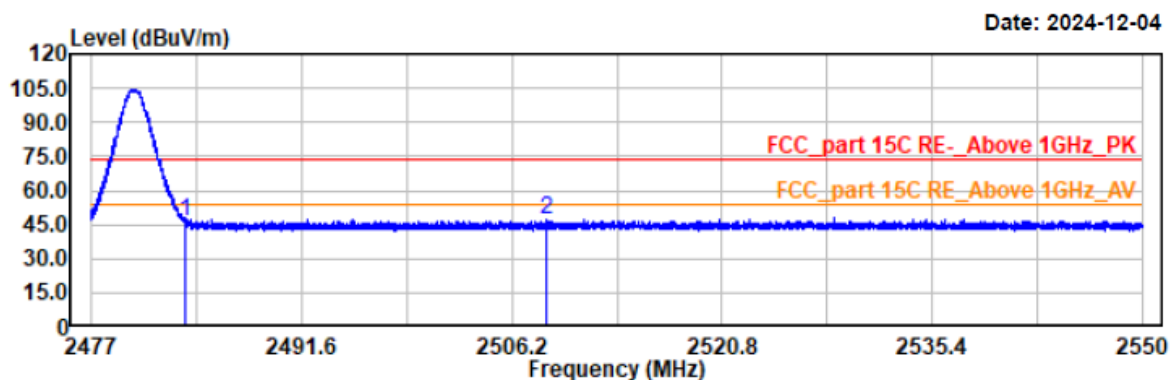


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	43.93	-0.17	43.76	74.00	30.24	horizontal	Peak
2529.39	44.35	-0.05	44.30	74.00	29.70	horizontal	Peak

Project No.: 2407V20721E-RF
Test Mode: 2DH1 2480
EUT Model: NLS-NQuire500
Test distance: 3m

Temp/Humi/ATM: 24.7°C/46%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



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	46.31	-0.17	46.14	74.00	27.86	vertical	Peak
2508.63	47.49	-0.07	47.42	74.00	26.58	vertical	Peak

Project No.: 2407V20721E-RF

Test Mode: 3DH1 2402

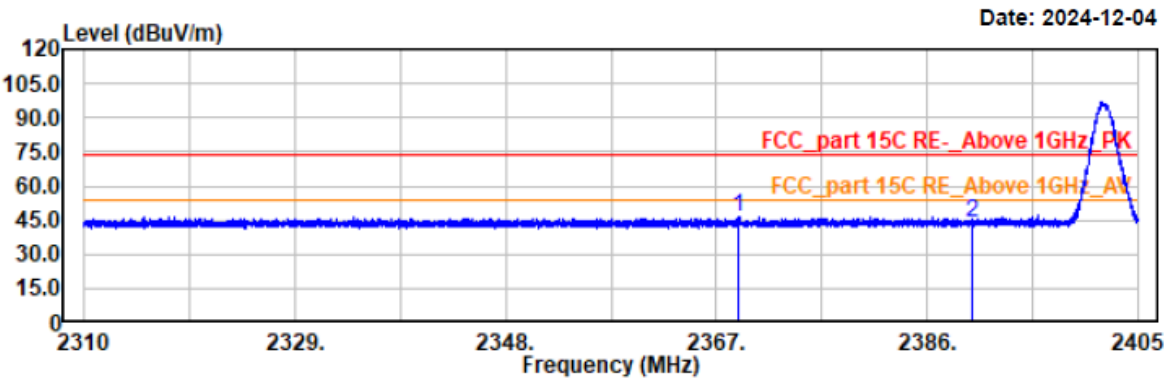
EUT Model: NLS-NQuire500

Test distance: 3m

Temp/Humi/ATM: 24.7°C/46%/100.1kPa

Tested by: Wlif Wu

Power Source: AC120V/60Hz



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
2369.05	47.44	-0.73	46.71	74.00	27.29	horizontal	Peak
2390.00	44.54	-0.63	43.91	74.00	30.09	horizontal	Peak

Project No.: 2407V20721E-RF

Test Mode: 3DH1 2402

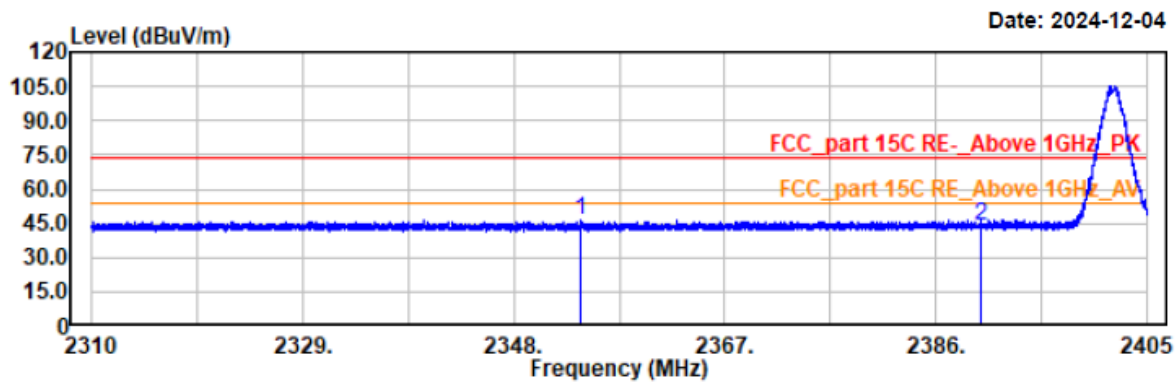
EUT Model: NLS-NQuire500

Test distance: 3m

Temp/Humi/ATM: 24.7℃/46%/100.1kPa

Tested by: Wlif Wu

Power Source: AC120V/60Hz

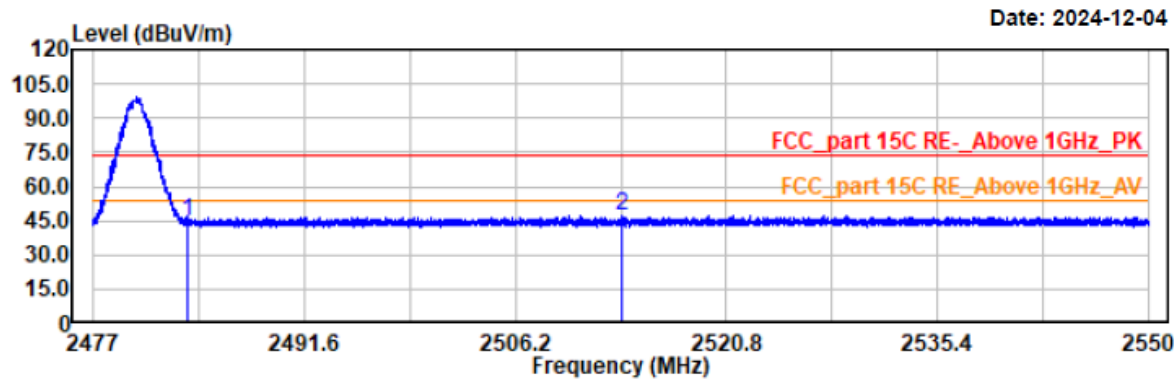


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2353.97	46.91	-0.81	46.10	74.00	27.90	vertical	Peak
2390.00	44.87	-0.63	44.24	74.00	29.76	vertical	Peak

Project No.: 2407V20721E-RF
Test Mode: 3DH1 2480
EUT Model: NLS-NQuire500
Test distance: 3m

Temp/Humi/ATM: 24.7°C/46%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz

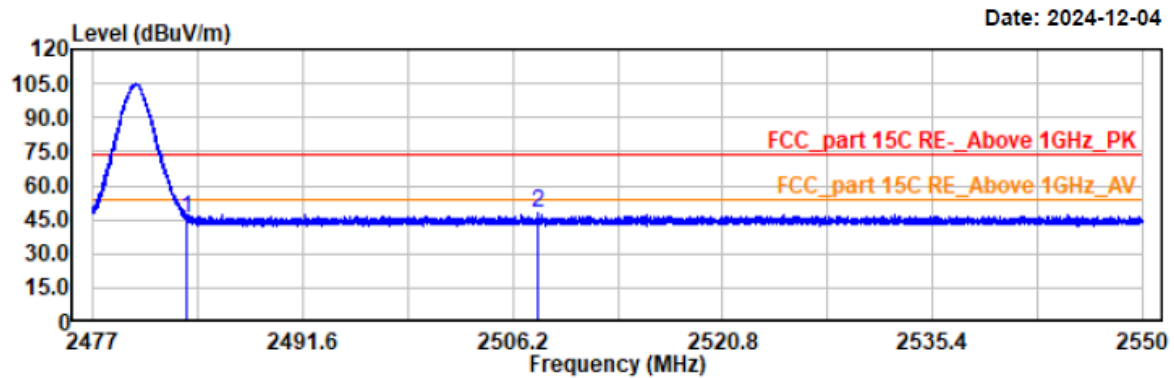


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	45.26	-0.17	45.09	74.00	28.91	horizontal	Peak
2513.60	47.38	-0.06	47.32	74.00	26.68	horizontal	Peak

Project No.: 2407V20721E-RF
Test Mode: 3DH1 2480
EUT Model: NLS-NQuire500
Test distance: 3m

Temp/Humi/ATM: 24.7℃/46%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



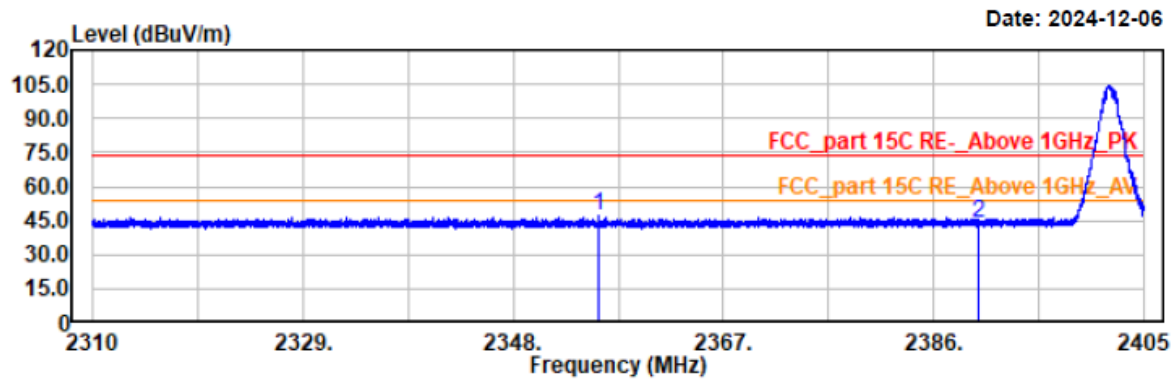
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	45.76	-0.17	45.59	74.00	28.41	vertical	Peak
2507.89	48.35	-0.07	48.28	74.00	25.72	vertical	Peak

EUT Model: NLS-NQuire700

Project No.: 2407V20721E-RF
Test Mode: 1DH1 2402
EUT Model: NLS-NQuire700
Test distance: 3m

Temp/Humi/ATM: 24.1°C/50%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



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
2355.77	47.90	-0.81	47.09	74.00	26.91	horizontal	Peak
2390.00	44.67	-0.63	44.04	74.00	29.96	horizontal	Peak

Project No.: 2407V20721E-RF

Test Mode: 1DH1 2402

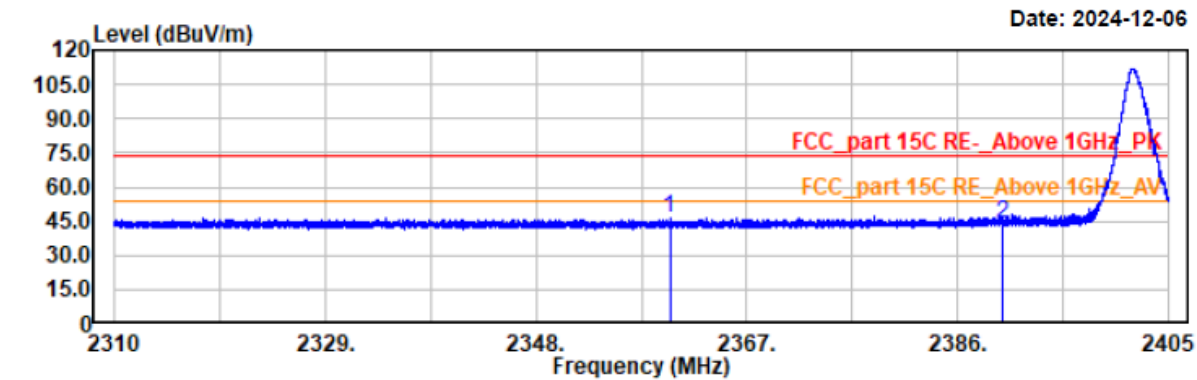
EUT Model: NLS-NQuire700

Test distance: 3m

Temp/Humi/ATM: 24.1°C/50%/100.1kPa

Tested by: Wlif Wu

Power Source: AC120V/60Hz

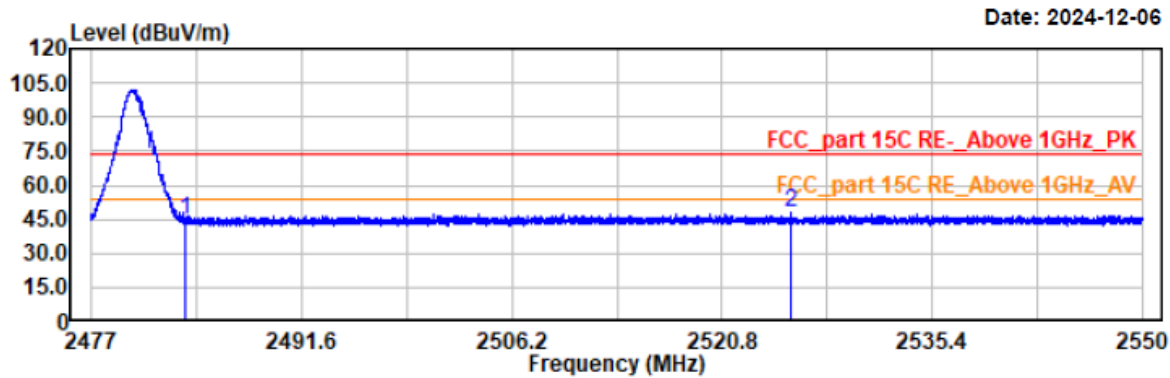


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2360.06	47.06	-0.79	46.27	74.00	27.73	vertical	Peak
2390.00	44.65	-0.63	44.02	74.00	29.98	vertical	Peak

Project No.: 2407V20721E-RF
Test Mode: 1DH1 2480
EUT Model: NLS-NQuire700
Test distance: 3m

Temp/Humi/ATM: 24.1°C/50%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Condition: PK RBW:1MHz VBW:3MHz SWT:auto							
Freq	Reading	Factor	Result	Limit	Margin	Polarity	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
2483.50	45.19	-0.17	45.02	74.00	28.98	horizontal	Peak
2525.61	47.75	-0.06	47.69	74.00	26.31	horizontal	Peak

Project No.: 2407V20721E-RF

Test Mode: 1DH1 2480

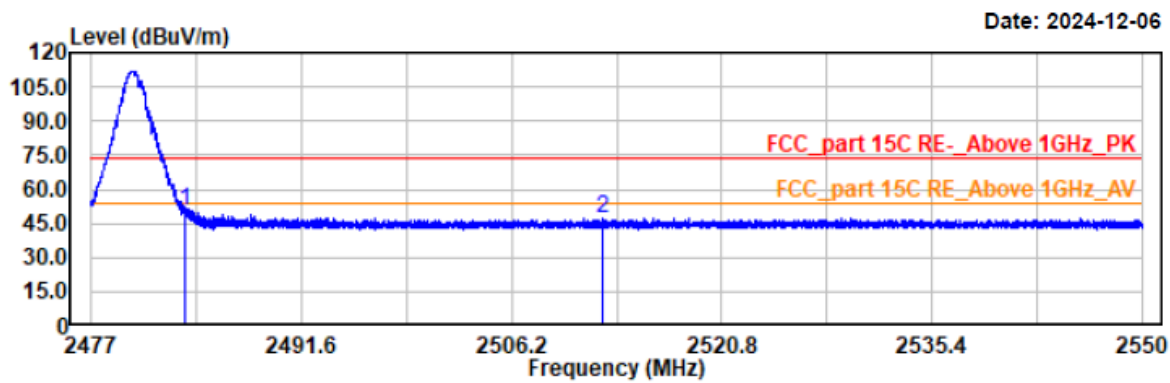
EUT Model: NLS-NQuire700

Test distance: 3m

Temp/Humi/ATM: 24.1°C/50%/100.1kPa

Tested by: Wlif Wu

Power Source: AC120V/60Hz

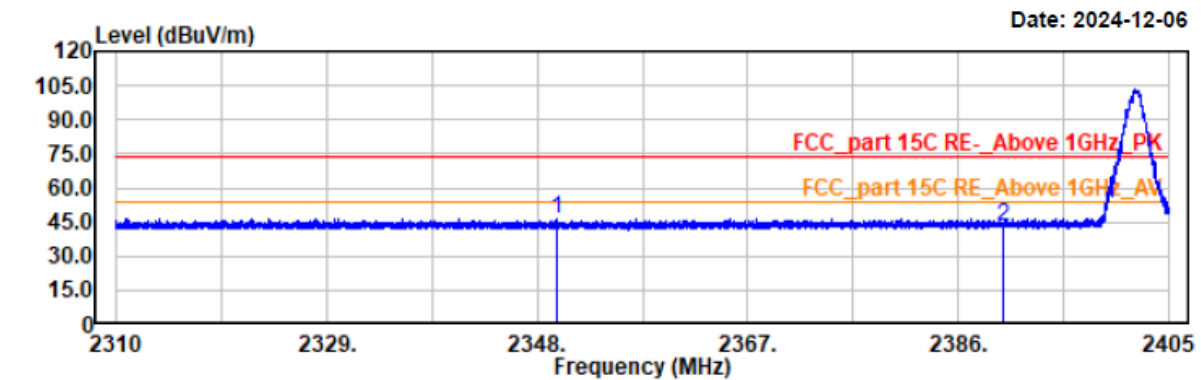


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	50.83	-0.17	50.66	74.00	23.34	vertical	Peak
2512.48	47.52	-0.07	47.45	74.00	26.55	vertical	Peak

Project No.: 2407V20721E-RF
Test Mode: 2DH1 2402
EUT Model: NLS-NQuire700
Test distance: 3m

Temp/Humi/ATM: 24.1°C/50%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz

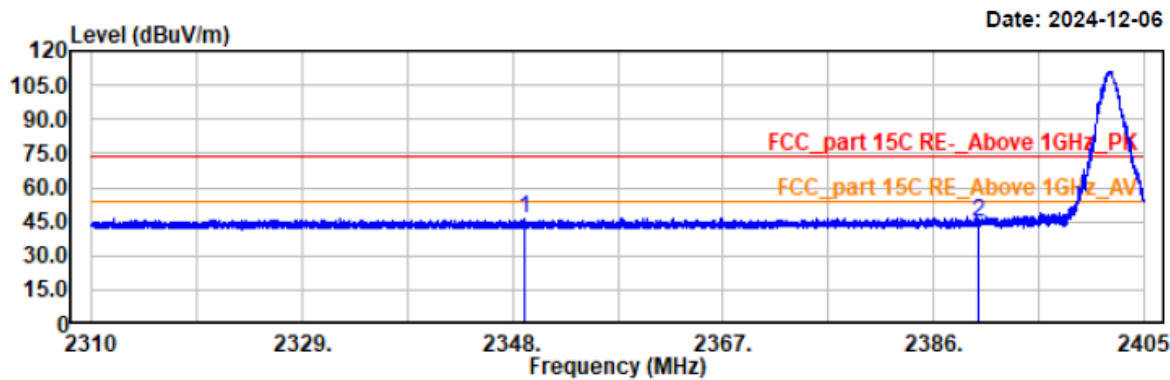


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2349.81	46.90	-0.83	46.07	74.00	27.93	horizontal	Peak
2390.00	43.88	-0.63	43.25	74.00	30.75	horizontal	Peak

Project No.: 2407V20721E-RF
Test Mode: 2DH1 2402
EUT Model: NLS-NQuire700
Test distance: 3m

Temp/Humi/ATM: 24.1°C/50%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz

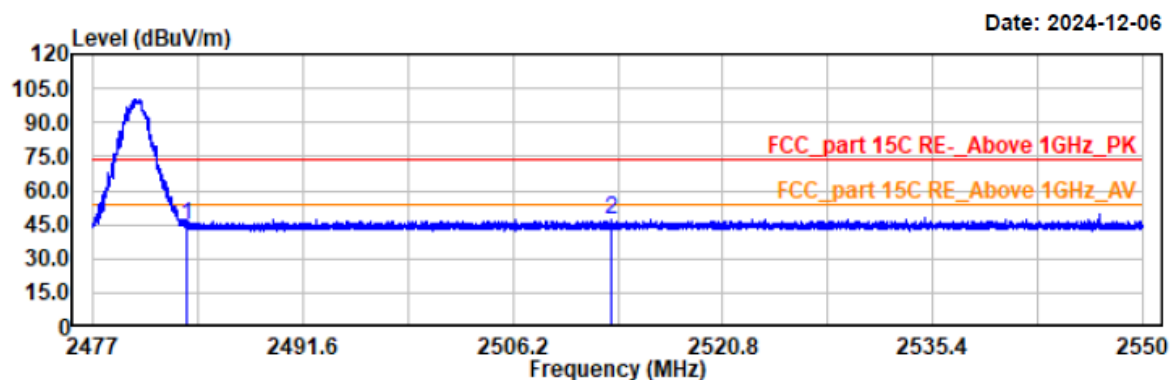


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2349.02	47.29	-0.83	46.46	74.00	27.54	vertical	Peak
2390.00	45.21	-0.63	44.58	74.00	29.42	vertical	Peak

Project No.: 2407V20721E-RF
Test Mode: 2DH1 2480
EUT Model: NLS-NQuire700
Test distance: 3m

Temp/Humi/ATM: 24.1°C/50%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz

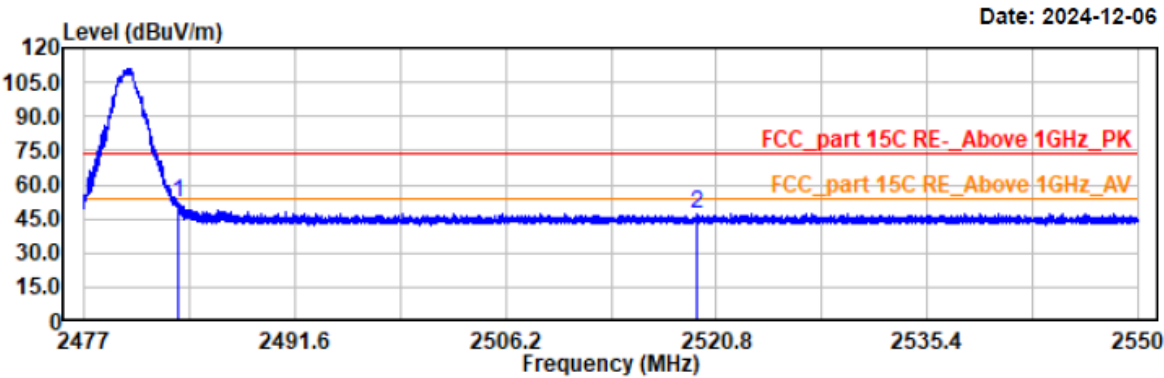


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	44.77	-0.17	44.60	74.00	29.40	horizontal	Peak
2513.01	47.48	-0.06	47.42	74.00	26.58	horizontal	Peak

Project No.: 2407V20721E-RF
Test Mode: 2DH1 2480
EUT Model: NLS-NQuire700
Test distance: 3m

Temp/Humi/ATM: 24.1°C/50%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



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	52.48	-0.17	52.31	74.00	21.69	vertical	Peak
2519.50	47.09	-0.06	47.03	74.00	26.97	vertical	Peak

Project No.: 2407V20721E-RF

Test Mode: 3DH1 2402

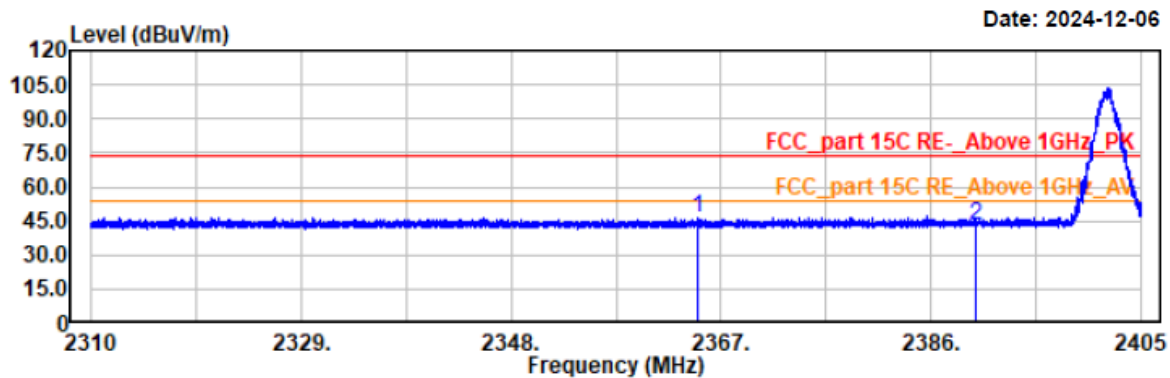
EUT Model: NLS-NQuire700

Test distance: 3m

Temp/Humi/ATM: 24.1°C/50%/100.1kPa

Tested by: Wlif Wu

Power Source: AC120V/60Hz



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
2364.88	46.77	-0.76	46.01	74.00	27.99	horizontal	Peak
2390.00	43.65	-0.63	43.02	74.00	30.98	horizontal	Peak

Project No.: 2407V20721E-RF

Test Mode: 3DH1 2402

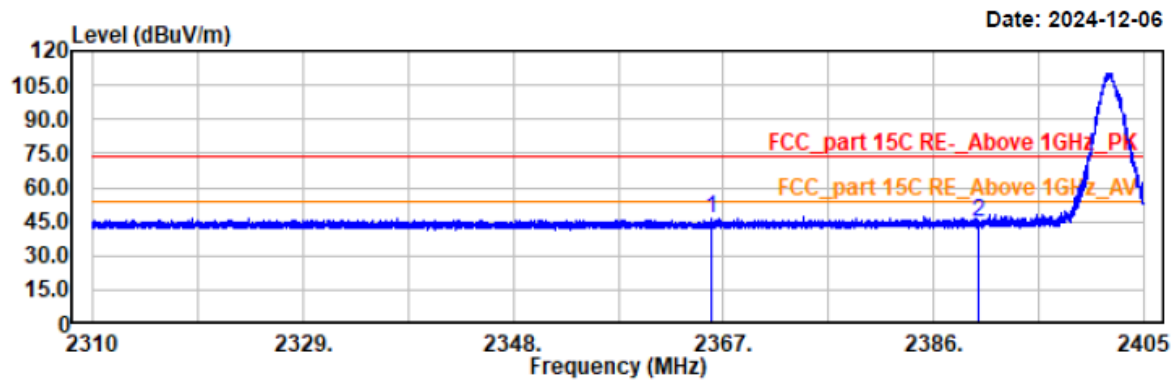
EUT Model: NLS-NQuire700

Test distance: 3m

Temp/Humi/ATM: 24.1°C/50%/100.1kPa

Tested by: Wlif Wu

Power Source: AC120V/60Hz

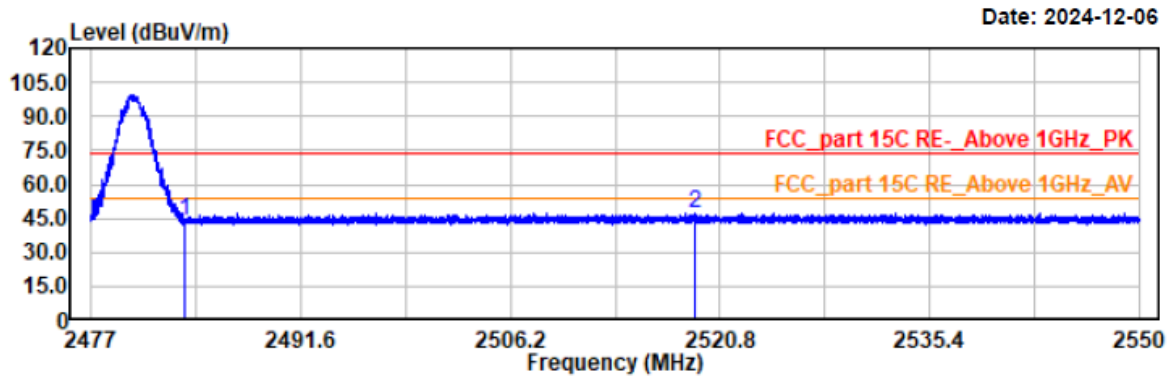


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2365.88	47.12	-0.76	46.36	74.00	27.64	vertical	Peak
2390.00	45.49	-0.63	44.86	74.00	29.14	vertical	Peak

Project No.: 2407V20721E-RF
Test Mode: 3DH1 2480
EUT Model: NLS-NQuire700
Test distance: 3m

Temp/Humi/ATM: 24.1°C/50%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz

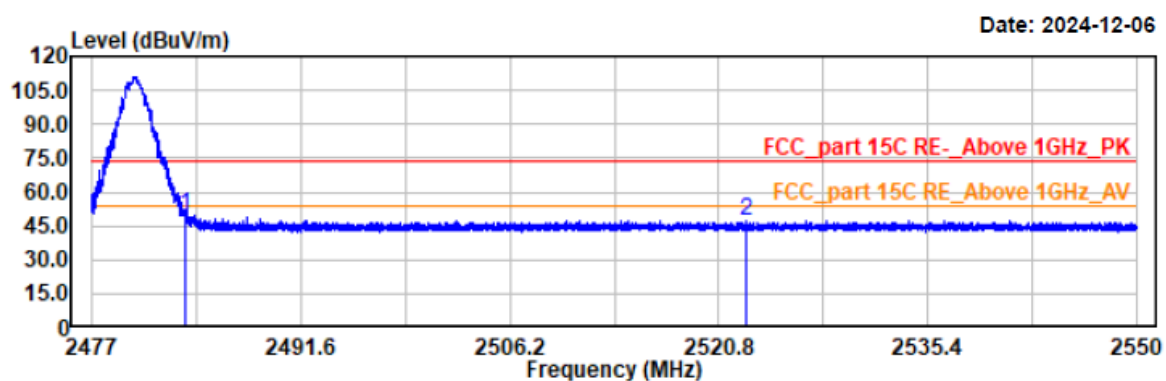


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	44.00	-0.17	43.83	74.00	30.17	horizontal	Peak
2519.03	47.25	-0.06	47.19	74.00	26.81	horizontal	Peak

Project No.: 2407V20721E-RF
Test Mode: 3DH1 2480
EUT Model: NLS-NQuire700
Test distance: 3m

Temp/Humi/ATM: 24.1°C/50%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



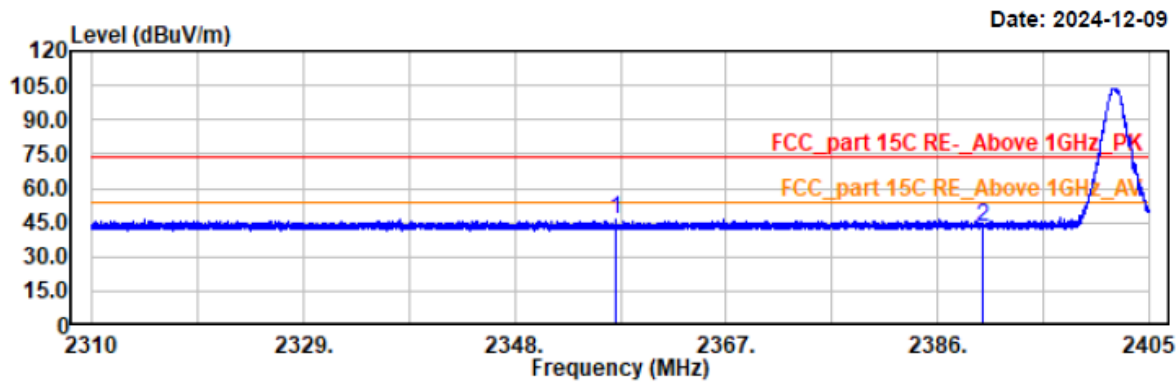
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	50.03	-0.17	49.86	74.00	24.14	vertical	Peak
2522.74	47.17	-0.06	47.11	74.00	26.89	vertical	Peak

EUT Model: NLS-NQuire1000

Project No.: 2407V20721E-RF
Test Mode: 1DH1 2402
EUT Model: NLS-NQuire1000
Test distance: 3m

Temp/Humi/ATM: 23.8℃/47%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz

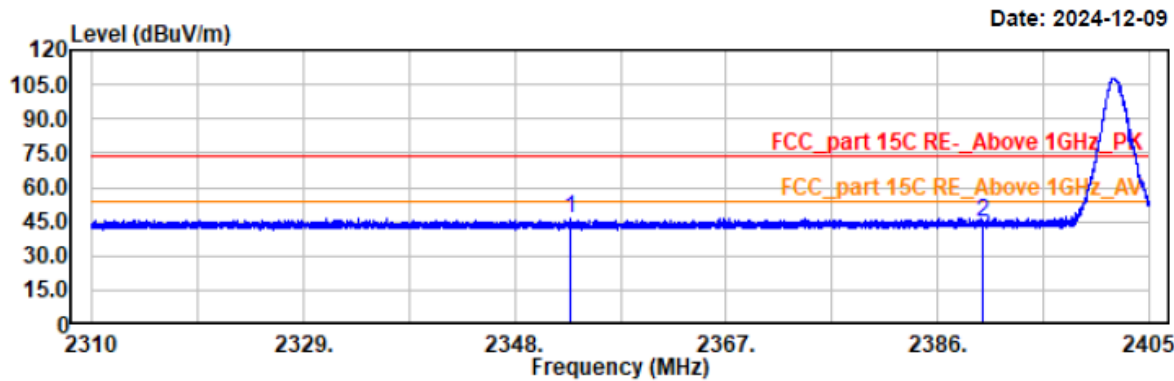


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2357.02	46.75	-0.80	45.95	74.00	28.05	horizontal	Peak
2390.00	43.89	-0.63	43.26	74.00	30.74	horizontal	Peak

Project No.: 2407V20721E-RF
Test Mode: 1DH1 2402
EUT Model: NLS-NQuire1000
Test distance: 3m

Temp/Humi/ATM: 23.8℃/47%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz

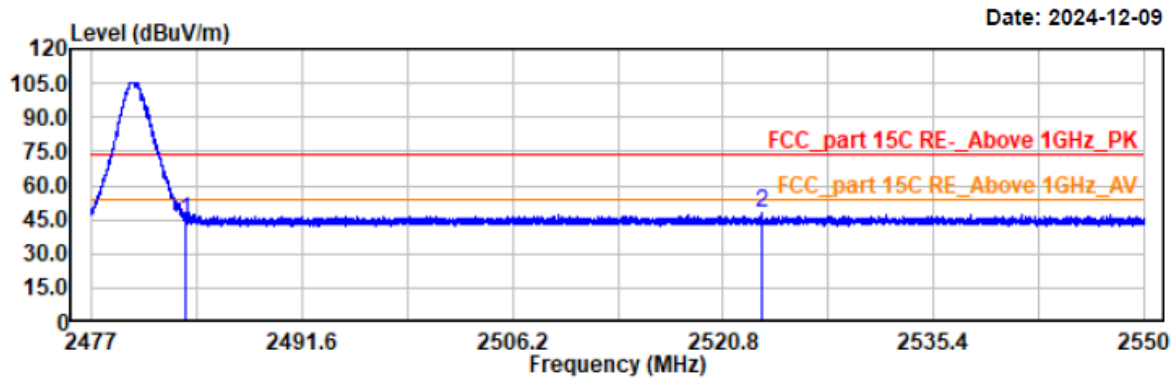


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2353.04	46.97	-0.82	46.15	74.00	27.85	vertical	Peak
2390.00	44.96	-0.63	44.33	74.00	29.67	vertical	Peak

Project No.: 2407V20721E-RF
Test Mode: 1DH1 2480
EUT Model: NLS-NQuire1000
Test distance: 3m

Temp/Humi/ATM: 23.8°C/47%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz

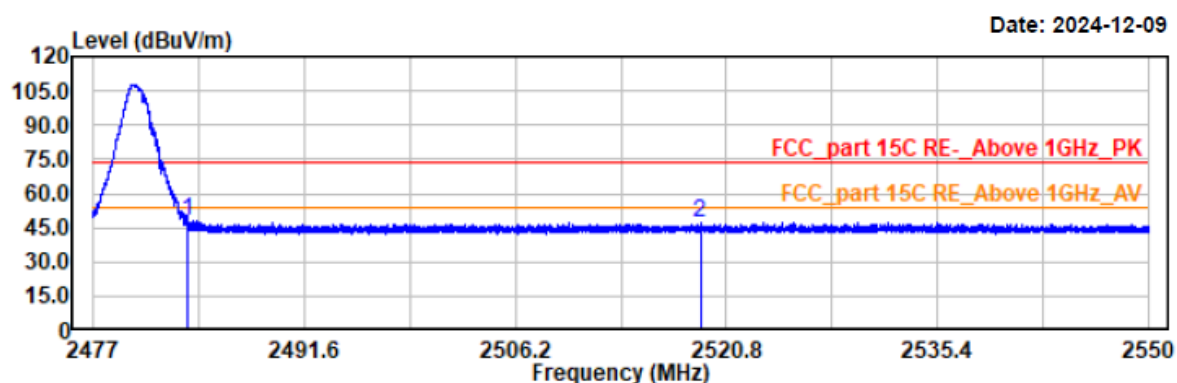


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	44.74	-0.17	44.57	74.00	29.43	horizontal	Peak
2523.50	47.67	-0.06	47.61	74.00	26.39	horizontal	Peak

Project No.: 2407V20721E-RF
Test Mode: 1DH1 2480
EUT Model: NLS-NQuire1000
Test distance: 3m

Temp/Humi/ATM: 23.8°C/47%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz

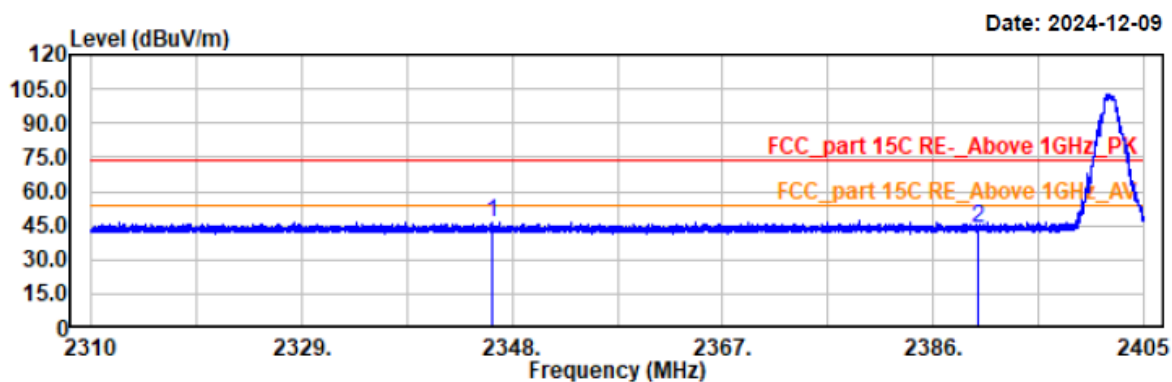


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	47.85	-0.17	47.68	74.00	26.32	vertical	Peak
2518.99	47.17	-0.06	47.11	74.00	26.89	vertical	Peak

Project No.: 2407V20721E-RF
Test Mode: 2DH1 2402
EUT Model: NLS-NQuire1000
Test distance: 3m

Temp/Humi/ATM: 23.8°C/47%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



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
2346.22	47.29	-0.85	46.44	74.00	27.56	horizontal	Peak
2390.00	44.45	-0.63	43.82	74.00	30.18	horizontal	Peak

Project No.: 2407V20721E-RF

Test Mode: 2DH1 2402

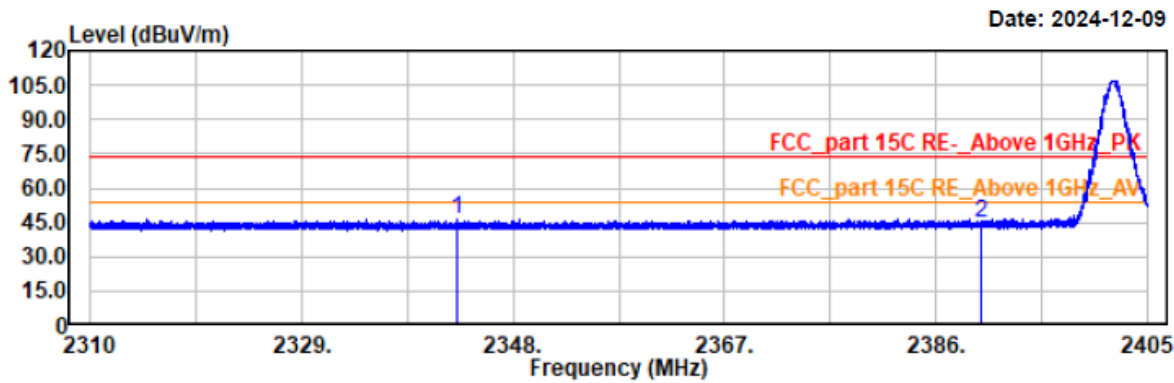
EUT Model: NLS-NQuire1000

Test distance: 3m

Temp/Humi/ATM: 23.8℃/47%/100.1kPa

Tested by: Wlif Wu

Power Source: AC120V/60Hz

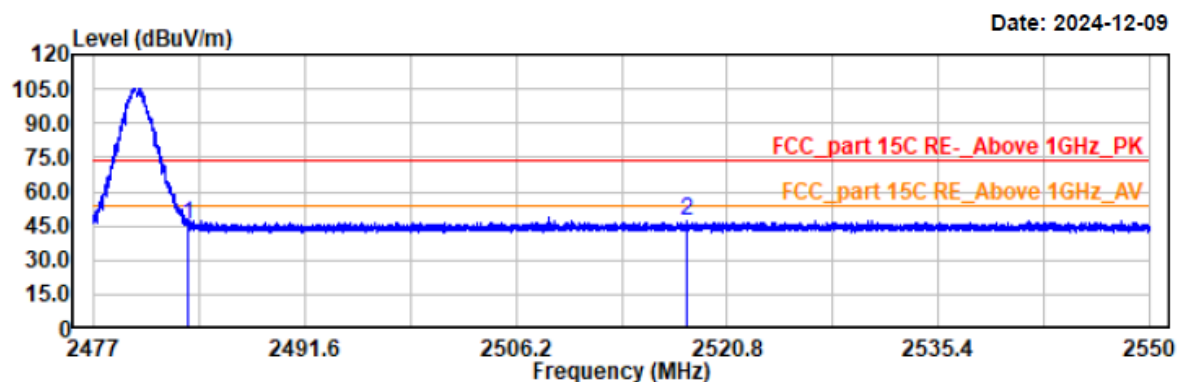


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2343.01	46.87	-0.85	46.02	74.00	27.98	vertical	Peak
2390.00	45.13	-0.63	44.50	74.00	29.50	vertical	Peak

Project No.: 2407V20721E-RF
Test Mode: 2DH1 2480
EUT Model: NLS-NQuire1000
Test distance: 3m

Temp/Humi/ATM: 23.8°C/47%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz

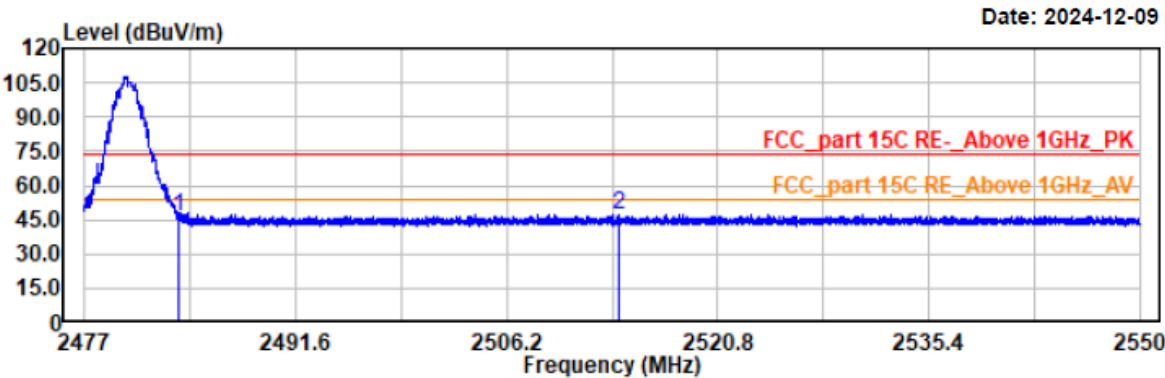


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	45.95	-0.17	45.78	74.00	28.22	horizontal	Peak
2517.97	47.29	-0.06	47.23	74.00	26.77	horizontal	Peak

Project No.: 2407V20721E-RF
Test Mode: 2DH1 2480
EUT Model: NLS-NQuire1000
Test distance: 3m

Temp/Humi/ATM: 23.8℃/47%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



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	46.25	-0.17	46.08	74.00	27.92	vertical	Peak
2513.91	47.57	-0.07	47.50	74.00	26.50	vertical	Peak

Project No.: 2407V20721E-RF

Test Mode: 3DH1 2402

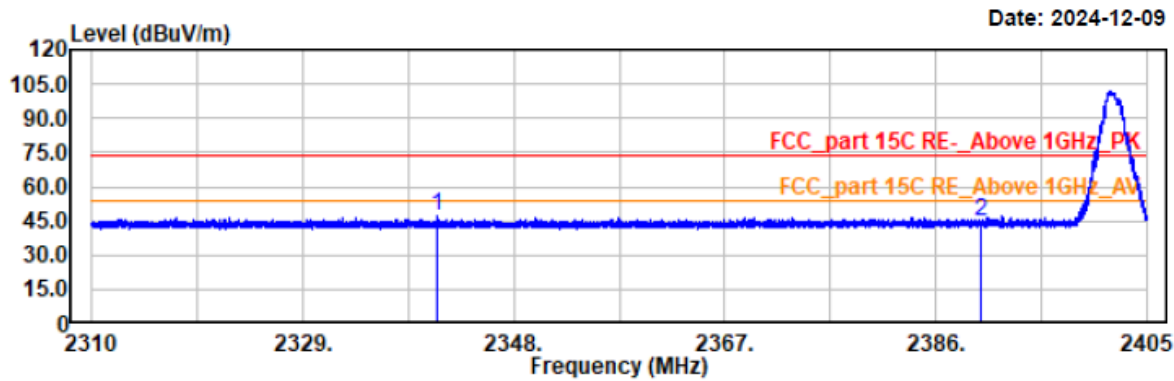
EUT Model: NLS-NQuire1000

Test distance: 3m

Temp/Humi/ATM: 23.8℃/47%/100.1kPa

Tested by: Wlif Wu

Power Source: AC120V/60Hz

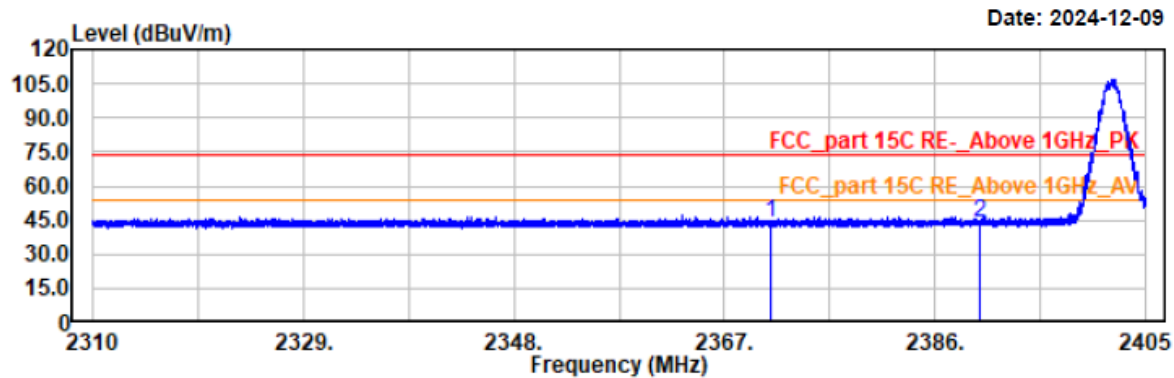


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2341.07	48.11	-0.86	47.25	74.00	26.75	horizontal	Peak
2390.00	45.32	-0.63	44.69	74.00	29.31	horizontal	Peak

Project No.: 2407V20721E-RF
Test Mode: 3DH1 2402
EUT Model: NLS-NQuire1000
Test distance: 3m

Temp/Humi/ATM: 23.8℃/47%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz

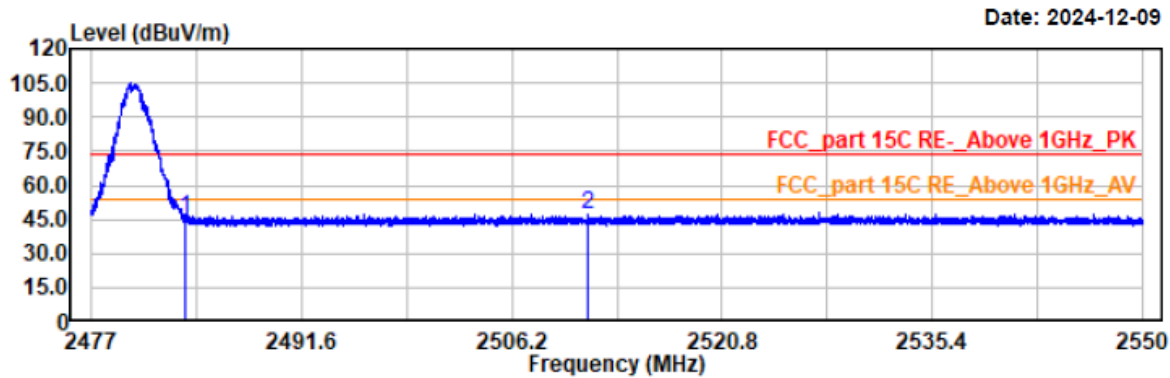


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2371.12	44.68	-0.73	43.95	74.00	30.05	vertical	Peak
2390.00	44.52	-0.63	43.89	74.00	30.11	vertical	Peak

Project No.: 2407V20721E-RF
Test Mode: 3DH1 2480
EUT Model: NLS-NQuire1000
Test distance: 3m

Temp/Humi/ATM: 23.8℃/47%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz

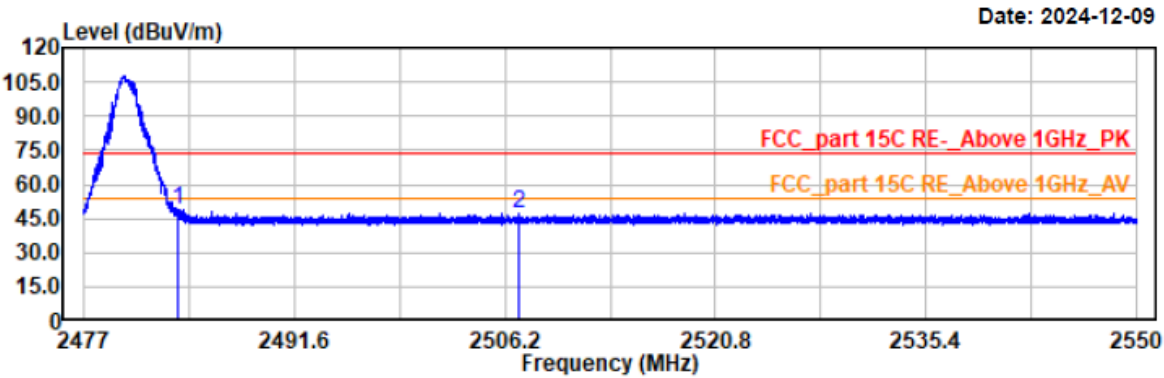


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	45.28	-0.17	45.11	74.00	28.89	horizontal	Peak
2511.51	47.64	-0.07	47.57	74.00	26.43	horizontal	Peak

Project No.: 2407V20721E-RF
Test Mode: 3DH1 2480
EUT Model: NLS-NQuire1000
Test distance: 3m

Temp/Humi/ATM: 23.8℃/47%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



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

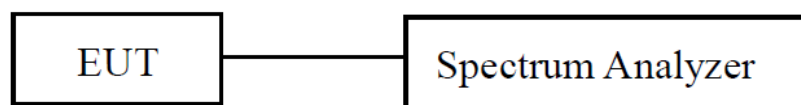
Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	48.84	-0.17	48.67	74.00	25.33	vertical	Peak
2507.14	47.17	-0.08	47.09	74.00	26.91	vertical	Peak

FCC §15.247(a) (1)-CHANNEL SEPARATION TEST

Applicable Standard

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater provided the systems operate with an output power no greater than 125 mW.

EUT Setup



Test Procedure

According to ANSI C63.10-2013 Section 7.8.2

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- a. Span: Wide enough to capture the peaks of two adjacent channels.
- b. RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
- c. Video (or average) bandwidth (VBW) $\geq$ RBW.
- d. Sweep: Auto.
- e. Detector function: Peak.
- f. Trace: Max hold.
- g. Allow the trace to stabilize.

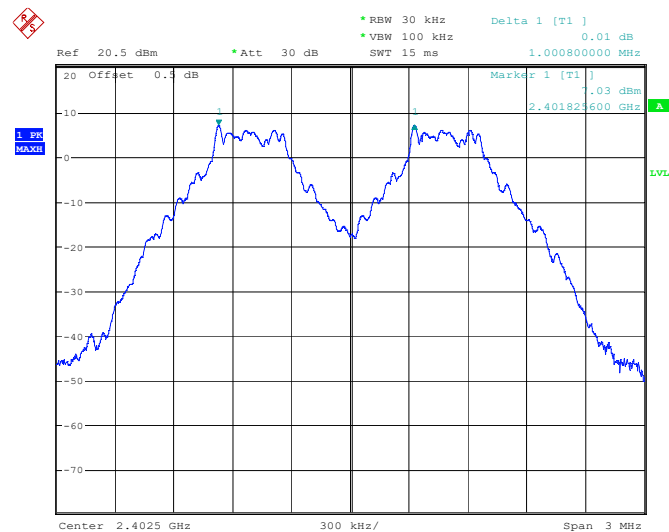
Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A plot of the data shall be included in the test report.

Test Data

Test Mode:	Transmitting		Test Engineer:	Stein Peng	
Test Date:	2024-08-07		Environment:	Temp.: 23.9°C Humi.: 60% Atm :99.8kPa	
Mode	Channel	Frequency (MHz)	Channel Separation (MHz)	Limit (MHz)	Result
BDR (GFSK)	Low	2402	1.001	0.819	Pass
	Middle	2441	1.001	0.841	Pass
	High	2480	1.003	0.841	Pass

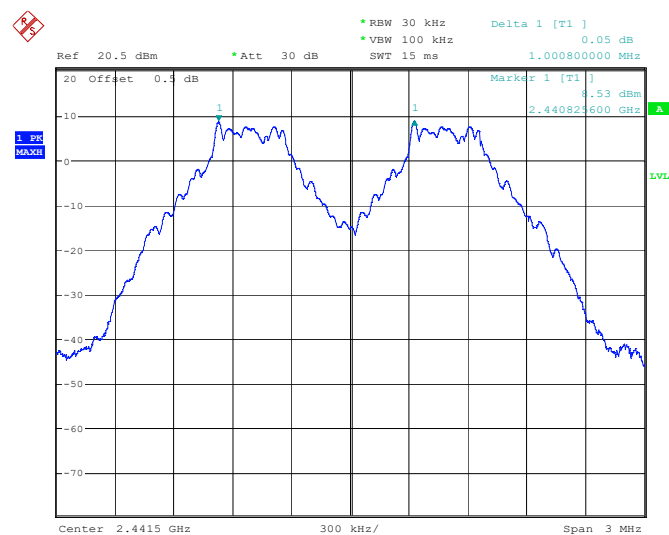
- Note:
- 1. Limit = 20 dB bandwidth*2/3
 - 2. Only BDR(GFSK) mode result is reported since EDR(π /4-DQPSK, 8DPSK) has the same channel plan.

BDR (GFSK): Low Channel



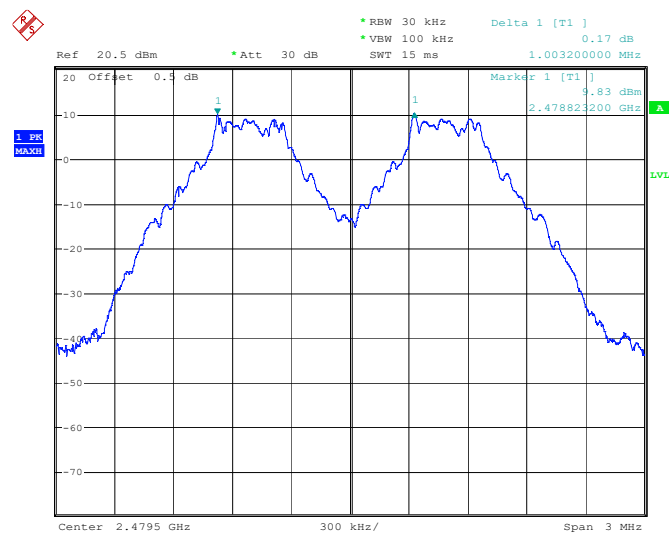
ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 7.AUG.2024 15:45:34

BDR (GFSK): Middle Channel



ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 7.AUG.2024 15:47:23

BDR (GFSK): High Channel



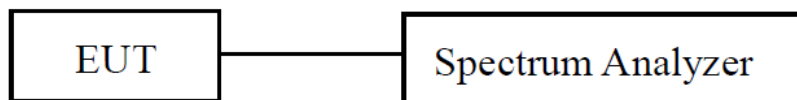
ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 7.AUG.2024 15:49:03

FCC §15.247(a) (1) – 20 dB EMISSION BANDWIDTH

Applicable Standard

Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

EUT Setup



Test Procedure

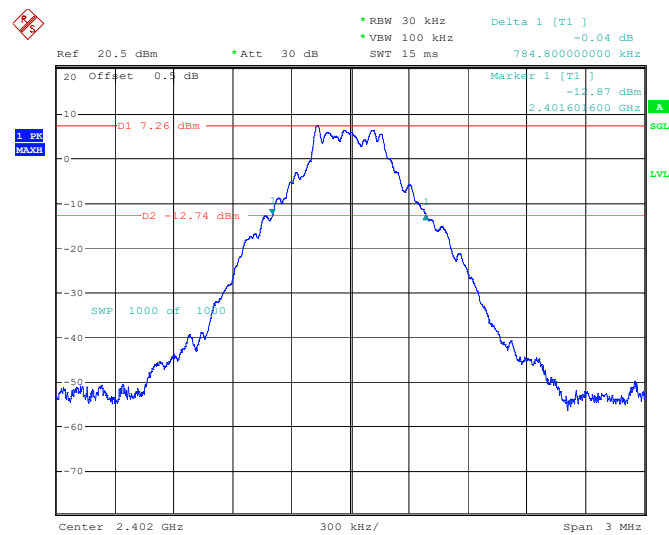
According to ANSI C63.10-2013 Section 6.9.2

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (\text{OBW}/\text{RBW})]$ below the reference level. Specific guidance is given in 4.1.5.2
- d) Steps a) through c) might require iteration to adjust within the specified tolerances.
- e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “–xx dB down” requirement; that is, if the requirement calls for measuring the –20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.
- f) Set detection mode to peak and trace mode to max hold.
- g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
- h) Determine the “–xx dB down amplitude” using $[(\text{reference value}) - \text{xx}]$. Alternatively, this calculation may be made by using the marker-delta function of the instrument.
- i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).

Test Data

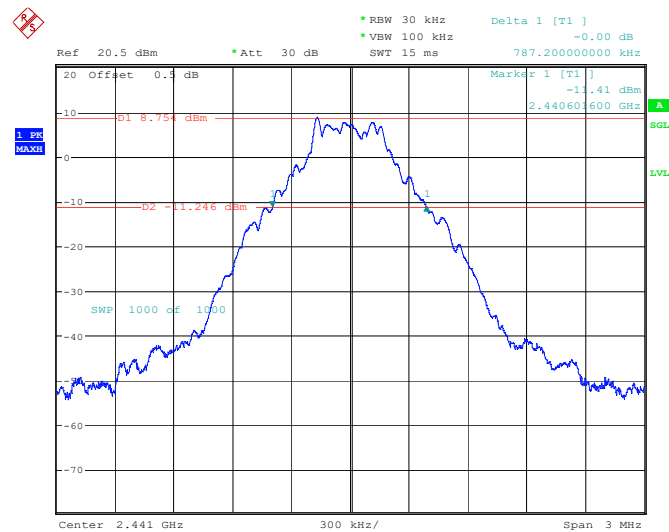
Test Mode:	Transmitting	Test Engineer:	Stein Peng
Test Date:	2024-08-07	Environment:	Temp.: 23.9°C Humi.: 60% Atm :99.8kPa
Mode	Channel	Frequency (MHz)	20 dB Emission Bandwidth (MHz)
BDR Mode (GFSK)	Low	2402	0.785
	Middle	2441	0.787
	High	2480	0.787
EDR (π/4-DQPSK)	Low	2402	1.219
	Middle	2441	1.241
	High	2480	1.246
EDR (8DPSK)	Low	2402	1.229
	Middle	2441	1.262
	High	2480	1.262

BDR(GFSK) : Low Channel



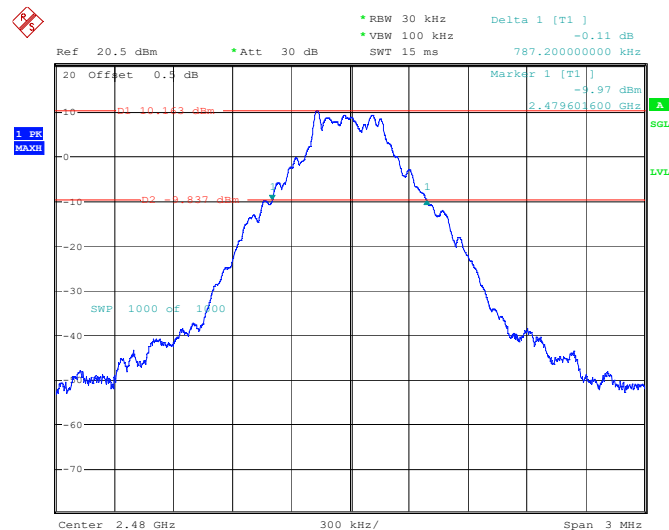
ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 7.AUG.2024 11:47:30

BDR(GFSK) : Middle Channel



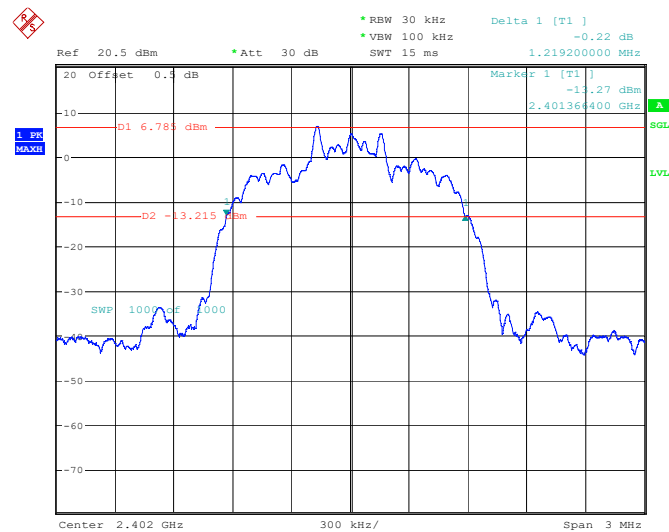
ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 7.AUG.2024 11:48:47

BDR(GFSK) : High Channel



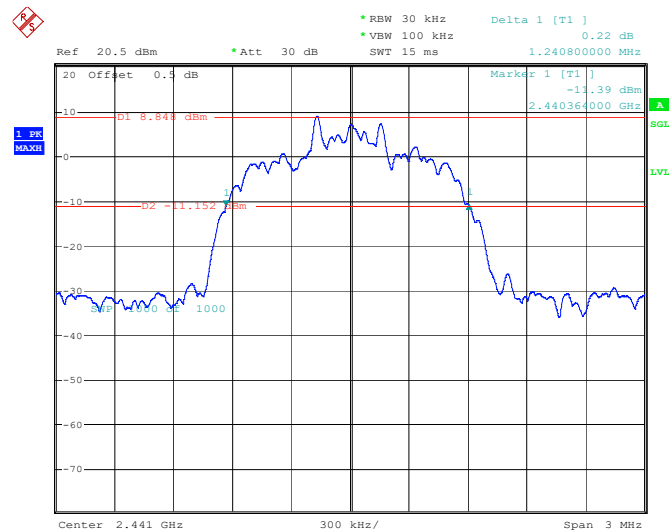
ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 7.AUG.2024 11:52:01

EDR ($\pi/4$ -DQPSK): Low Channel



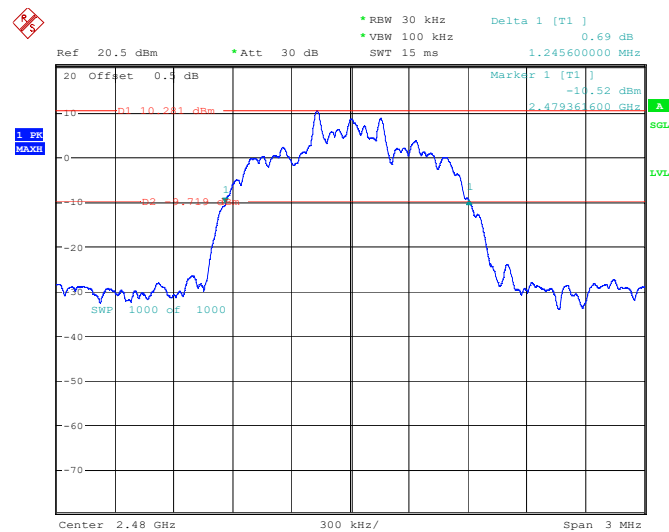
ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 7.AUG.2024 11:54:20

EDR($\pi/4$ -DQPSK): Middle Channel



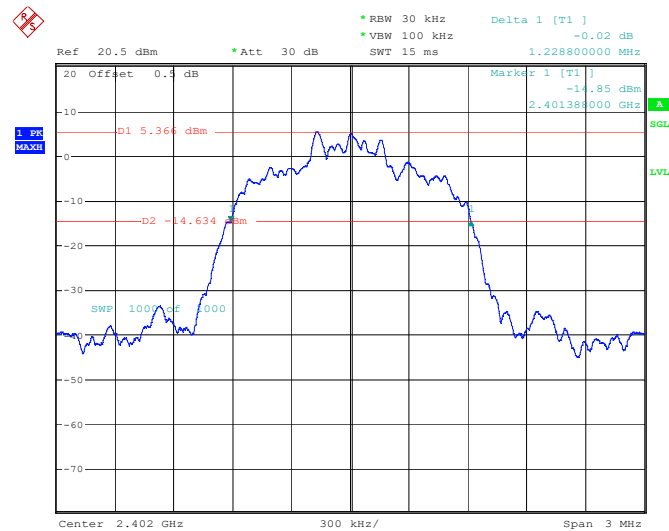
ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 7.AUG.2024 11:56:40

EDR ($\pi/4$ -DQPSK): High Channel



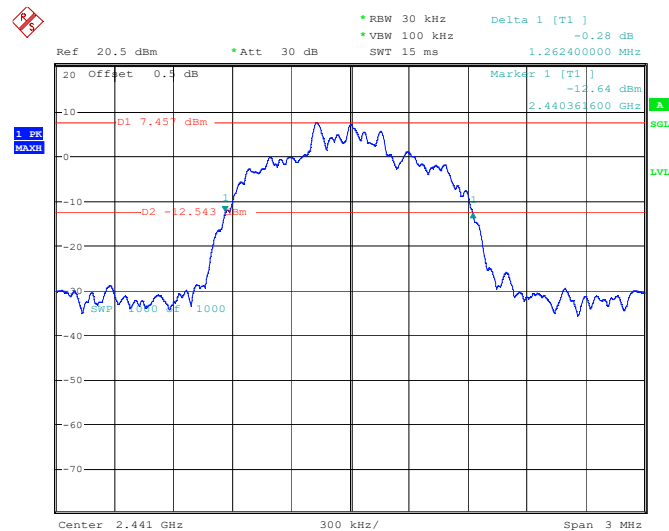
ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 7.AUG.2024 11:57:47

EDR (8DPSK): Low Channel



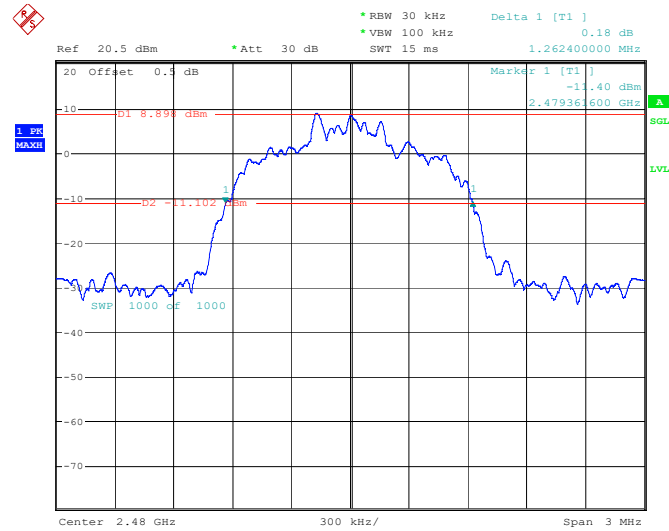
ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 7.AUG.2024 13:03:41

EDR (8DPSK): Middle Channel



ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 7.AUG.2024 13:08:47

EDR (8DPSK): High Channel



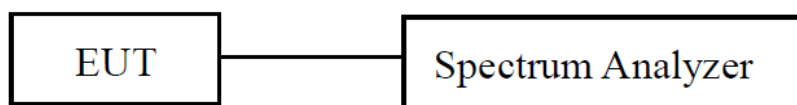
ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 7.AUG.2024 13:10:31

FCC §15.247(a) (1) (iii)-QUANTITY OF HOPPING CHANNEL TEST

Applicable Standard

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

EUT Setup



Test Procedure

According to ANSI C63.10-2013 Section 7.8.3

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

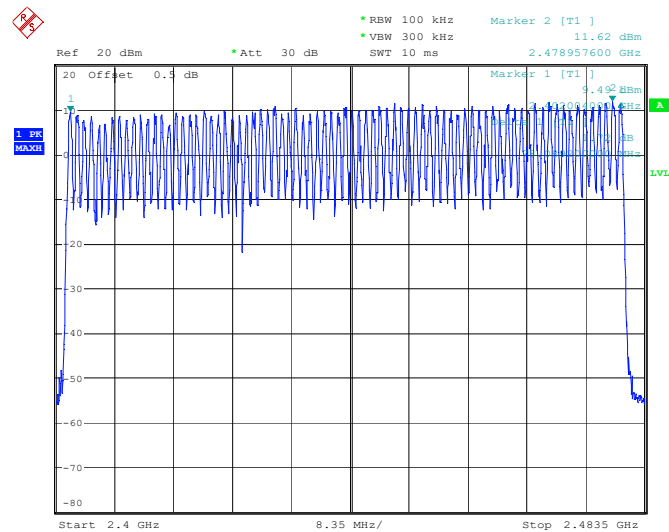
- a. Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
- b. RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
- c. VBW $\geq$ RBW.
- d. Sweep: Auto.
- e. Detector function: Peak.
- f. Trace: Max hold.
- g. Allow the trace to stabilize.

It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A plot of the data shall be included in the test report.

Test Data

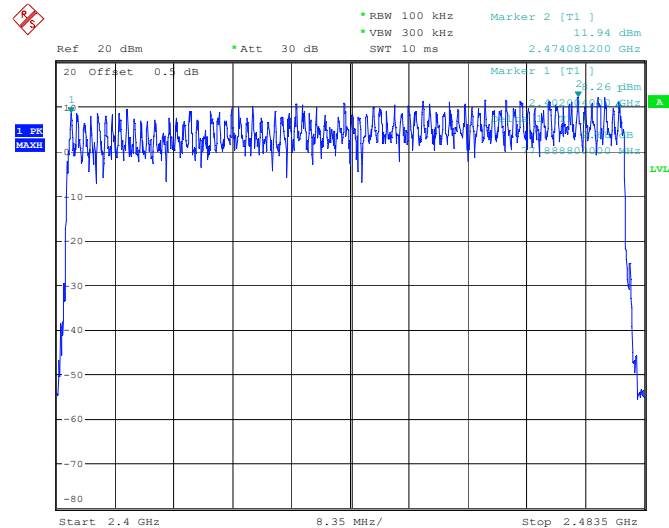
Test Mode:	Transmitting	Test Engineer:	Stein Peng
Test Date:	2024-08-07	Environment:	Temp.: 23.9°C Humi.: 60% Atm :99.8kPa
Mode	Frequency Range (MHz)	Number of Hopping Channel (CH)	Limit (CH)
BDR (GFSK)	2400-2483.5	79	≥15
EDR (π/4-DQPSK)	2400-2483.5	79	≥15
EDR (8DPSK)	2400-2483.5	79	≥15

BDR (GFSK): Number of Hopping Channels



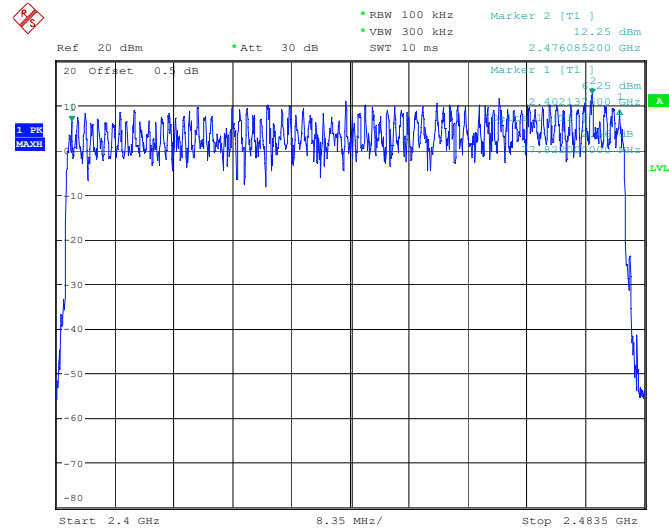
ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 7.AUG.2024 16:09:16

EDR ($\pi/4$ -DQPSK): Number of Hopping Channels



ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 7.AUG.2024 16:12:31

EDR (8DPSK): Number of Hopping Channels



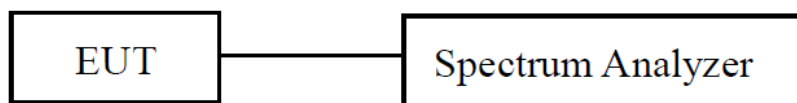
ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 7.AUG.2024 16:15:54

FCC §15.247(a) (1) (iii) - TIME OF OCCUPANCY (DWELL TIME)

Applicable Standard

Frequency hopping systems in the 2400-2483.5 MHz shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

EUT Setup



Test Procedure

According to ANSI C63.10-2013 Section 7.8.4

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- a) Span: Zero span, centered on a hopping channel.
- b) RBW shall be $\leq$ channel spacing and where possible RBW should be set $\gg 1 / T$, where T is the expected dwell time per channel.
- c) Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel.
- d) Detector function: Peak.
- e) Trace: Max hold.

Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time.

Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements. Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements, using the following equation:

$$(\text{Number of hops in the period specified in the requirements}) = (\text{number of hops on spectrum analyzer}) \times (\text{period specified in the requirements} / \text{analyzer sweep time})$$

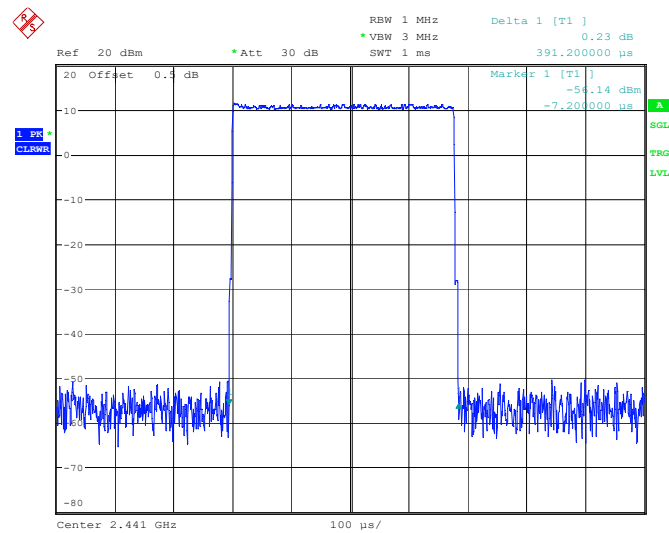
The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements. If the number of hops in a specific time varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation.

The measured transmit time and time between hops shall be consistent with the values described in the operational description for the EUT.

Test Data

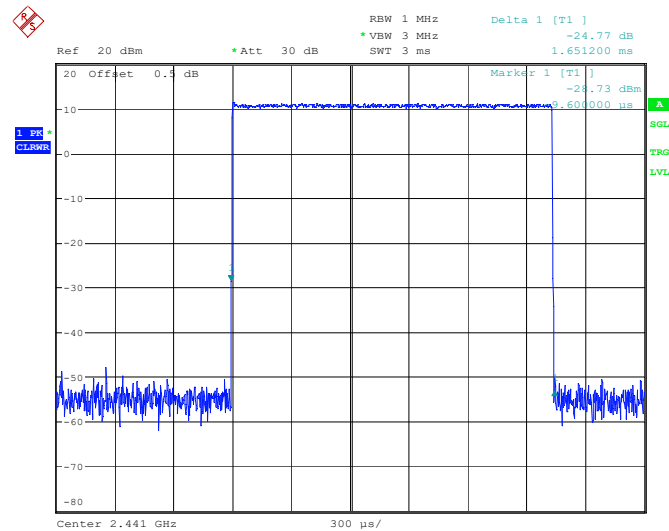
Test Mode:	Transmitting		Test Engineer:	Stein Peng	
Test Date:	2024-08-07		Environment:	Temp.: 23.9°C Humi.: 60% Atm :99.8kPa	
Test Modes	Packet Type	Test Frequency (MHz)	Pulse width (ms)	Dwell times (s)	Limit (s)
BDR Mode (GFSK)	DH1	2441	0.391	0.125	0.400
	DH3	2441	1.651	0.264	0.400
	DH5	2441	2.908	0.310	0.400
EDR Mode (π/4-DQPSK)	2DH1	2441	0.398	0.127	0.400
	2DH3	2441	1.656	0.265	0.400
	2DH5	2441	2.912	0.311	0.400
EDR Mode (8DPSK)	3DH1	2441	0.398	0.127	0.400
	3DH3	2441	1.654	0.265	0.400
	3DH5	2441	2.912	0.311	0.400
DH1/2DH1/3DH1:Dwell time=Pulse time (ms) × (1600/2/79) ×31.6 s					
DH3/2DH3/3DH3:Dwell time=Pulse time (ms) × (1600/4/79) ×31.6 s					
DH5/2DH5/3DH5:Dwell time=Pulse time (ms) × (1600/6/79) ×31.6 s					

BDR (GFSK)_Hopping_DH1



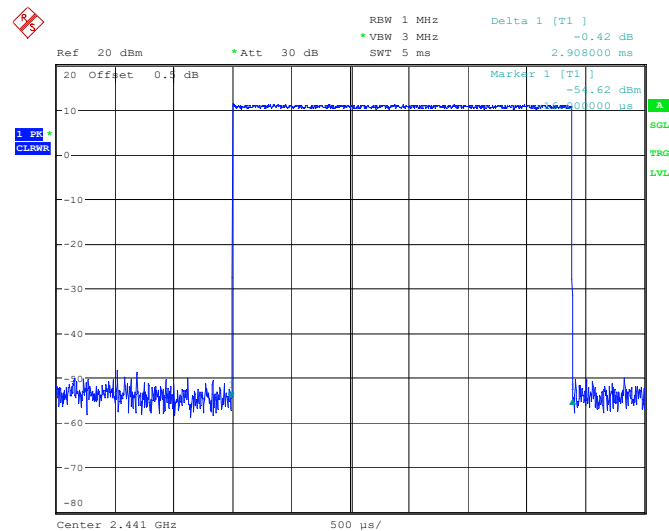
ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 7.AUG.2024 15:33:58

BDR (GFSK)_Hopping_DH3



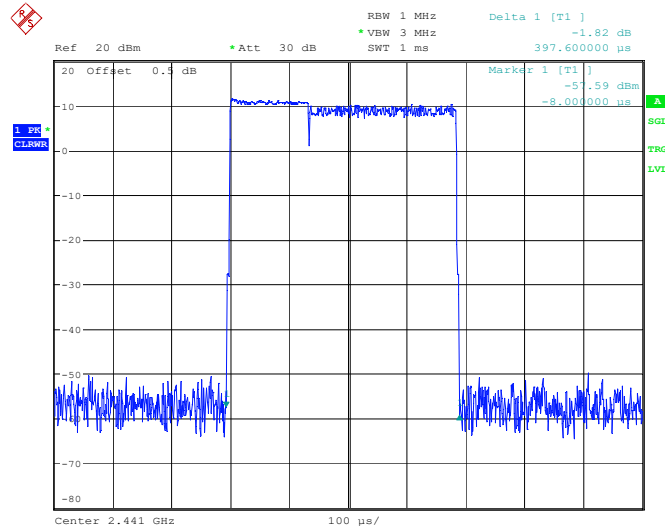
ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 7.AUG.2024 15:36:20

BDR (GFSK)_Hopping_DH5



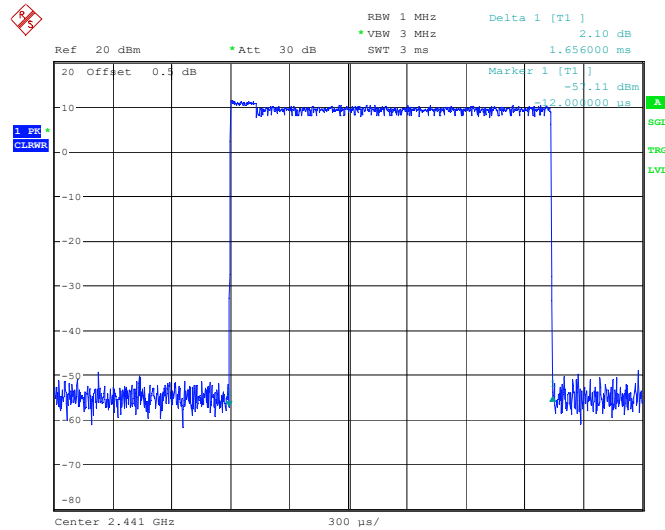
ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 7.AUG.2024 15:36:57

EDR ($\pi/4$ -DQPSK)_Hopping_2DH1



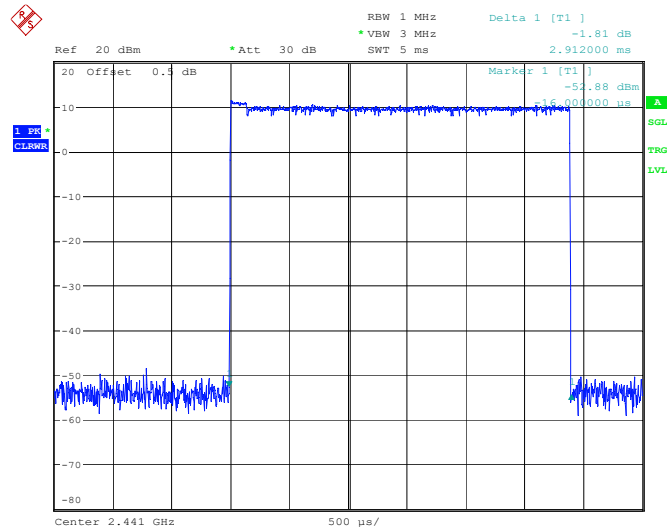
ProjectNo.:2407V20721E-RF Tester:Stein Peng
 Date: 7.AUG.2024 15:38:58

EDR ($\pi/4$ -DQPSK)_Hopping_2DH3



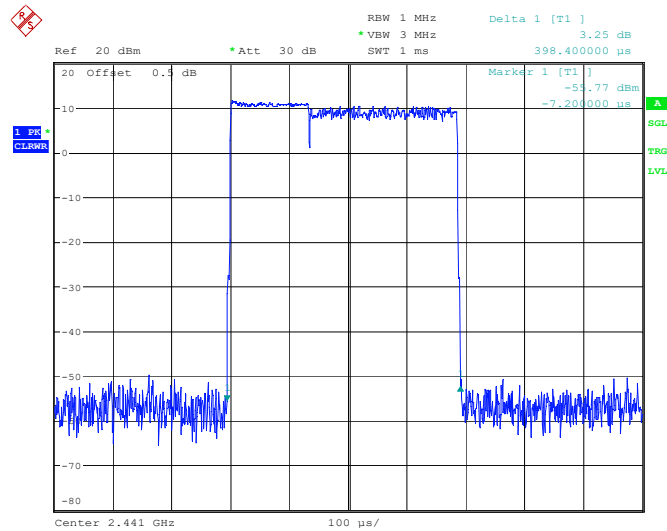
ProjectNo.:2407V20721E-RF Tester:Stein Peng
 Date: 7.AUG.2024 15:39:58

EDR ($\pi/4$ -DQPSK)_Hopping_2DH5



ProjectNo.:2407V20721E-RF Tester:Stein Peng
 Date: 7.AUG.2024 15:40:51

EDR (8DPSK)_Hopping_3DH1



ProjectNo.:2407V20721E-RF Tester:Stein Peng
 Date: 7.AUG.2024 15:41:33

RBW 1 MHz Delta 1 [T1] -6.44 dB
 * VBW 3 MHz
 SWT 3 ms 1.653600 ms

Ref 20 dBm * Att 30 dB

20 Offset 0.0 dB

Marker 1 [T1] -51.32 dBm
 -12.000000 us

1 PR
 CLMWA

A
 TRG
 LVL

Center 2.441 GHz 300 ps/

RBW 1 MHz Delta 1 [T1] -1.13 dB
VBW 3 MHz
SWT 5 ms 2.912000 ms

Ref 20 dBm * Att 30 dB

20 Offset 0.1 dB

Marker 1 [T1] -52.74 dBm -15.000000 us

1 PR
CLIMB

Center 2.41 GHz 500 μs/

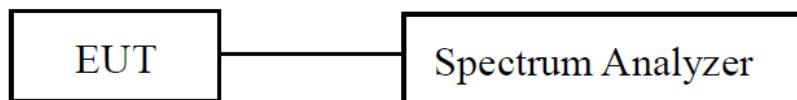
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FCC §15.247(b) (1) - PEAK OUTPUT POWER MEASUREMENT

Applicable Standard

According to §15.247(b) (1), for frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt. And for all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.

EUT Setup



Test Procedure

According to ANSI C63.10-2013 Section 7.8.5

This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation, Offset the Insertion loss of the RF cable, DC Block/ Attenuator into the spectrum analyzer.

The hopping shall be disabled for this test:

a) Use the following spectrum analyzer settings:

- 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
- 2) RBW > 20 dB bandwidth of the emission being measured.

3) VBW $\geq$ RBW.

4) Sweep: Auto.

5) Detector function: Peak.

6) Trace: Max hold.

b) Allow trace to stabilize.

c) Use the marker-to-peak function to set the marker to the peak of the emission.

d) The indicated level is the peak output power, after any corrections for external attenuators and cables.

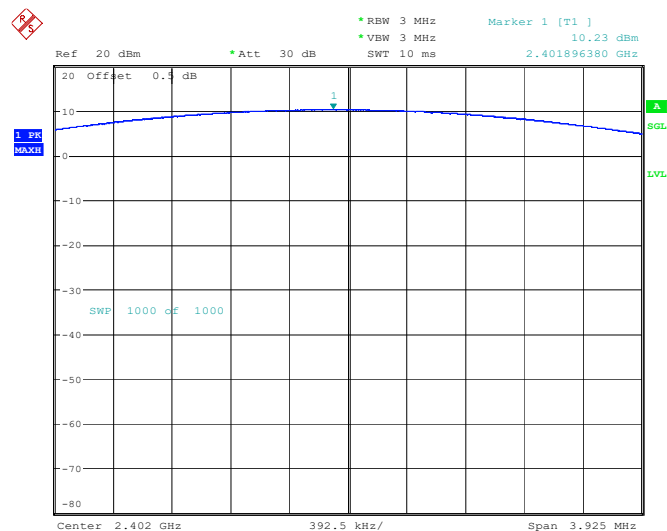
e) A plot of the test results and setup description shall be included in the test report.

NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer..

Test Data

Test Mode:	Transmitting		Test Engineer:	Stein Peng
Test Date:	2024-08-07		Environment:	Temp.: 23.9°C Humi.: 60% Atm :99.8kPa
Mode	Frequency (MHz)	Peak Conducted Output Power (dBm)		Limit (dBm)
BDR (GFSK)	2402	10.23		21
	2441	11.62		21
	2480	13.06		21
EDR (π/4-DQPSK)	2402	9.37		21
	2441	11.63		21
	2480	13.09		21
EDR (8DPSK)	2402	9.38		21
	2441	11.63		21
	2480	13.08		21

BDR(GFSK): 2402MHz



ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 7.AUG.2024 13:27:57