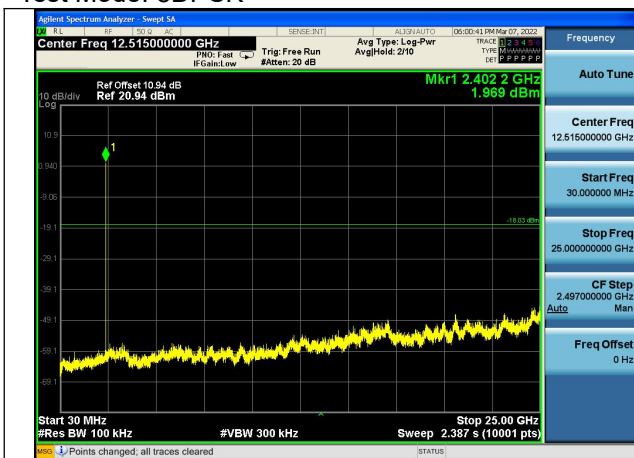
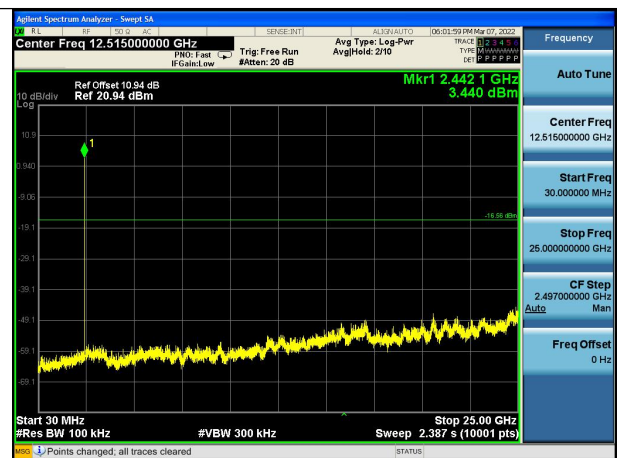


CH78(Hopping off)

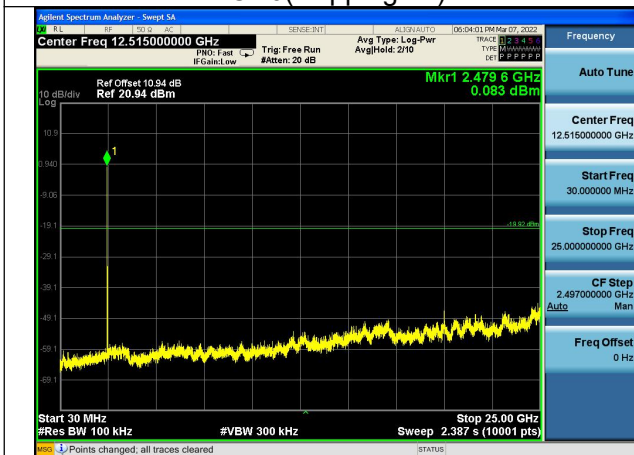
Test Mode: 8DPSK



CH0(Hopping off)



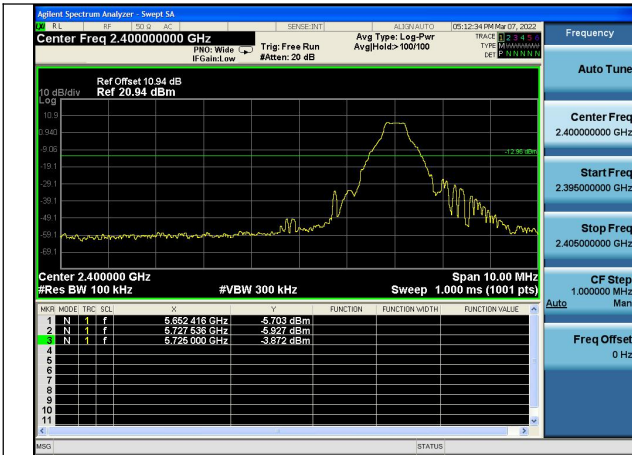
CH39(Hopping off)



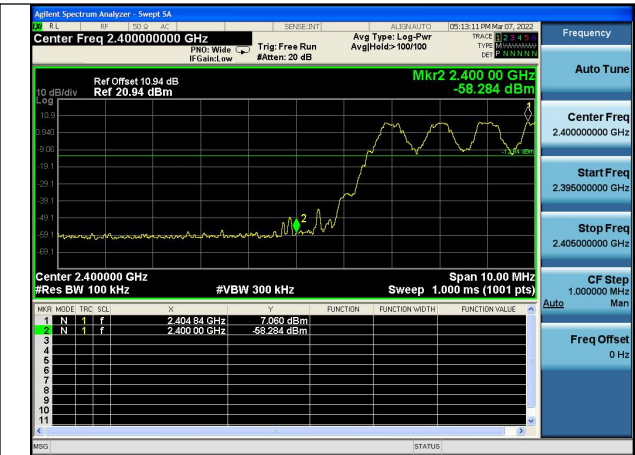
CH78(Hopping off)

7 Band Edge measurement

Test Mode: GFSK



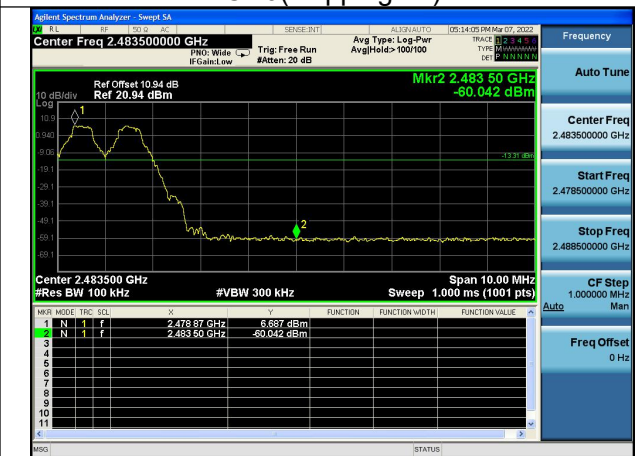
CH0(Hopping off)



CH0(Hopping on)



CH78(Hopping off)

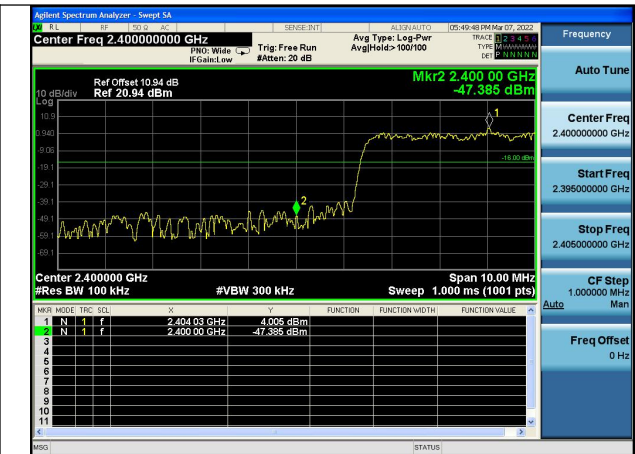


CH78(Hopping on)

Test Mode: π /4DQPSK



CH0(Hopping off)



CH0(Hopping on)



CH78(Hopping off)



CH78(Hopping on)

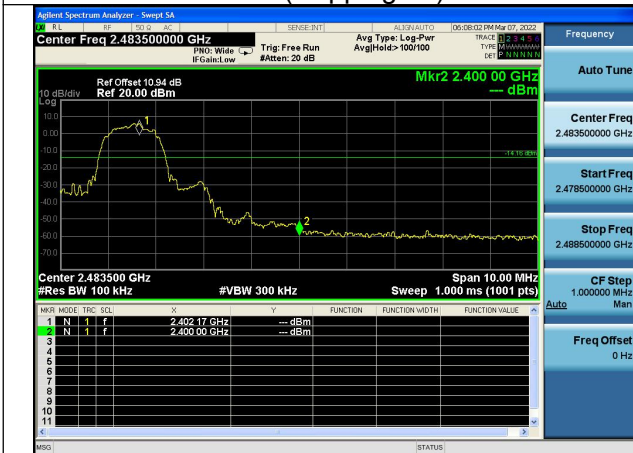
Test Mode: 8DPSK



CH0(Hopping off)



CH0(Hopping on)



CH78(Hopping off)



CH78(Hopping on)

APPENDIX B – TEST DATA OF RADIATED EMISSION

Radiated Emission Band Edge

The worst case attitude: The mobile lay down.

The measurement results are obtained as described below:

Measure Level = Reading Level + Cable loss + Antenna factor
Sample calculation: (85.30 dBuV/m) = (51.30 dBμV) + (8.90 dB) + (25.10 dB), the corresponding frequency is 2402MHz.

Note: The scanned graph represents the maximum of both horizontal and vertical polarizations and is not a single horizontal or vertical polarization scan.

Note: There were no emissions above 18GHz found within 20dB of the limit. Thus the test result was not reported according to §15.31 (o)

- BR-1Mbps

Carrier Frequency (MHz): 2402

Channel No.: 0

Test Mode: GFSK

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
2402.0	51.30	85.30	N/A	N/A	8.90	25.10
2390.0	13.70	47.70	-26.30	74.00	8.90	25.10

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
2402.0	43.10	77.10	N/A	N/A	8.90	25.10
2390.0	-4.20	29.80	-24.20	54.00	8.90	25.10

Carrier Frequency (MHz): 2480

Channel No.: 78

Test Mode: GFSK

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
2480.0	56.90	90.90	N/A	N/A	8.90	25.10
2483.5	3.60	37.60	-36.40	74.00	8.90	25.10

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
2480.0	46.20	80.20	N/A	N/A	8.90	25.10
2483.5	-9.70	24.30	-29.70	54.00	8.90	25.10

● EDR-2Mbps

Carrier Frequency (MHz): 2402

Channel No.: 0

Test Mode: $\pi/4$ DQPSK

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
2402.0	52.20	86.20	N/A	N/A	8.90	25.10
2390.0	4.60	38.60	-35.40	74.00	8.90	25.10

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
2402.0	43.60	77.60	N/A	N/A	8.90	25.10
2390.0	-6.90	27.10	-26.90	54.00	8.90	25.10

Carrier Frequency (MHz): 2480

Channel No.: 78

Test Mode: $\pi/4$ DQPSK

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
2480.0	54.70	88.70	N/A	N/A	8.90	25.10
2483.5	2.40	36.40	-37.60	74.00	8.90	25.10

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
2480.0	44.20	78.20	N/A	N/A	8.90	25.10
2483.5	-7.10	26.90	-27.10	54.00	8.90	25.10

● EDR-3Mbps

Carrier Frequency (MHz): 2402

Channel No.: 0

Test Mode: 8DPSK

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
2402.0	60.30	94.30	N/A	N/A	8.90	25.10
2390.0	20.50	54.50	-19.50	74.00	8.90	25.10

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
2402.0	34.10	68.10	N/A	N/A	8.90	25.10
2390.0	0.10	34.10	-19.90	54.00	8.90	25.10

Carrier Frequency (MHz): 2480

Channel No.: 78

Test Mode: 8DPSK

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
2480.0	54.80	88.80	N/A	N/A	8.90	25.10
2483.5	25.70	59.70	-14.30	74.00	8.90	25.10

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
2480.0	49.50	83.50	N/A	N/A	8.90	25.10
2483.5	1.30	35.30	-18.70	54.00	8.90	25.10

Sample Calculations

Determining Spurious Emissions Levels

A “reference path loss” is established and the A_{Rpl} is the attenuation of “reference path loss”, and including the gain of receive antenna, the gain of the preamplifier, the cable loss. The measurement results are obtained as described below:

Below 1GHz:

QuasiPeak=Reading Value + A_{Rpl}

Above 1GHz:

MaxPeak=Reading MaxPeak + A_{Rpl}

OR

Average=Reading Average + A_{Rpl}

Sample calculation: (14.58 dB μ V/m) = (38.78 dB μ V) + (-24.20 dB/m), the corresponding frequency is 71.904MHz.

The worst case attitude: The mobile lay down.

Spurious Radiated Emissions below 30MHz:

There were no emissions from 9kHz to 30MHz found within 20dB of the limit. Thus, the test result was not reported according to §15.31 (o).

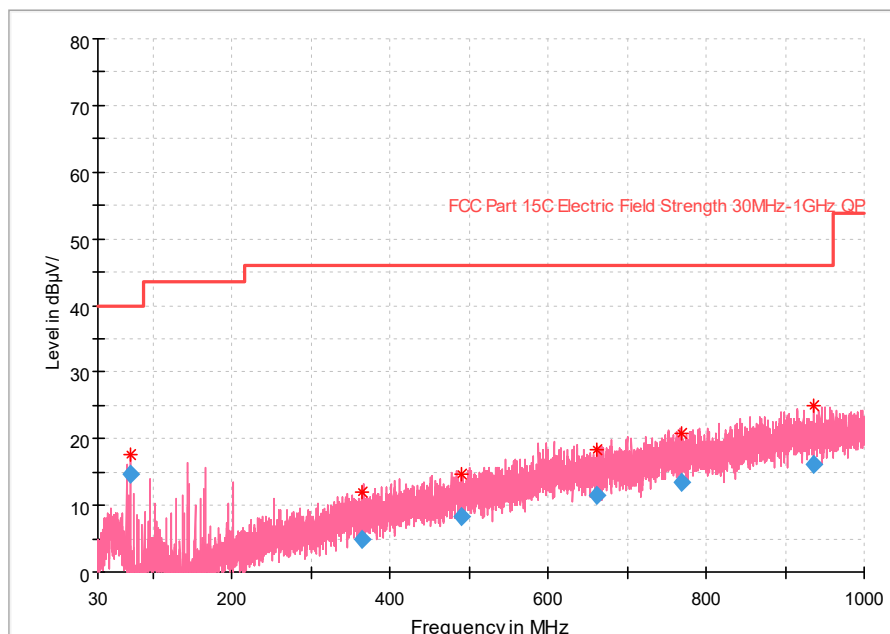
- BR-1Mbps

Spurious Radiated Emissions from 30MHz to 1GHz:

GFSK:

CH Middle (No.39)

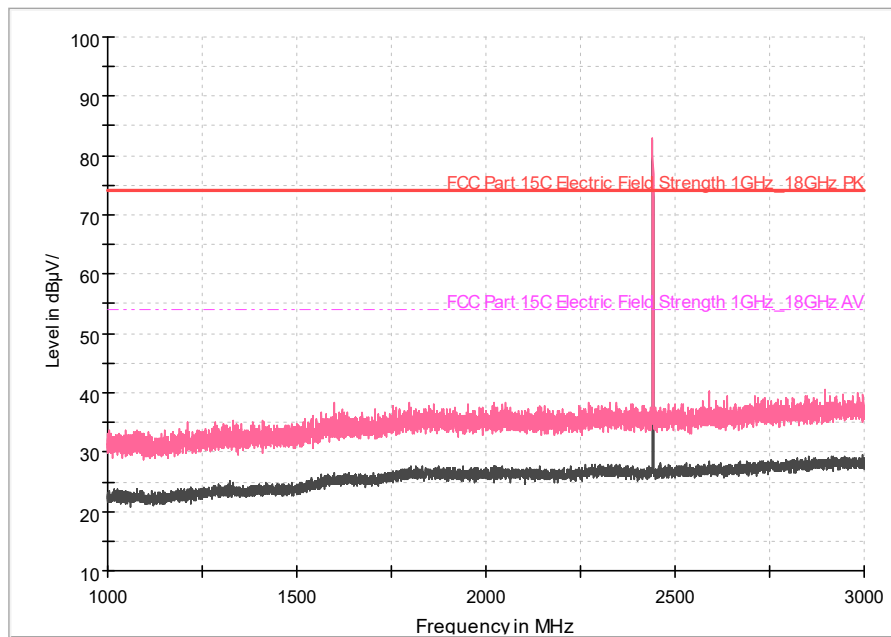
Full Spectrum



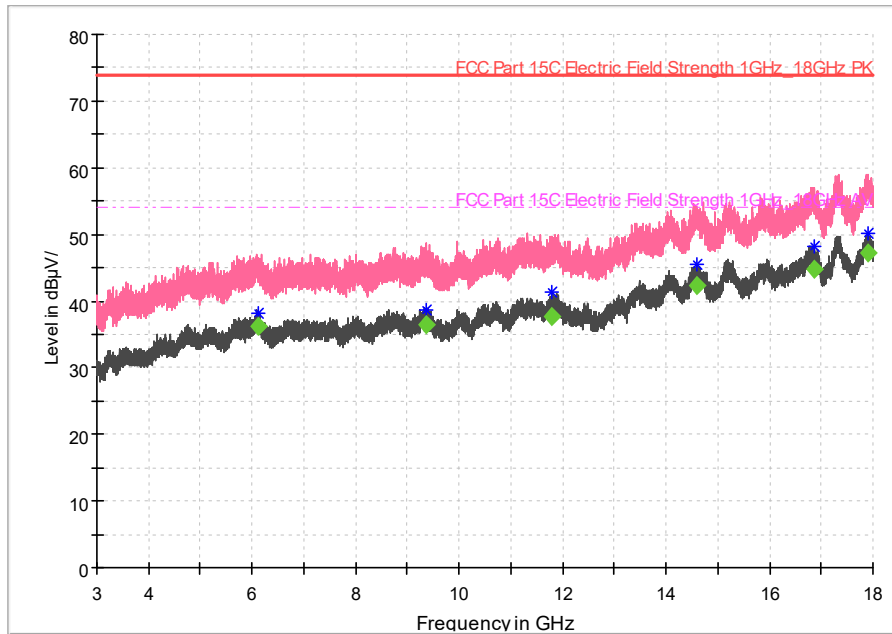
Frequency (MHz)	Reading (dBuV)	QuasiPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
71.904	38.78	14.58	40.00	25.42	-24.20	Vertical
363.389	20.26	4.96	46.00	41.04	-15.30	Vertical
491.138	19.59	8.29	46.00	37.71	-11.30	Vertical
661.179	18.93	11.53	46.00	34.47	-7.40	Vertical
768.461	18.73	13.43	46.00	32.57	-5.30	Vertical
936.271	18.59	16.09	46.00	29.91	-2.50	Vertical

Spurious Radiated Emissions from 1GHz to 18GHz:
GFSK:
CH Middle (No.39)

Full Spectrum



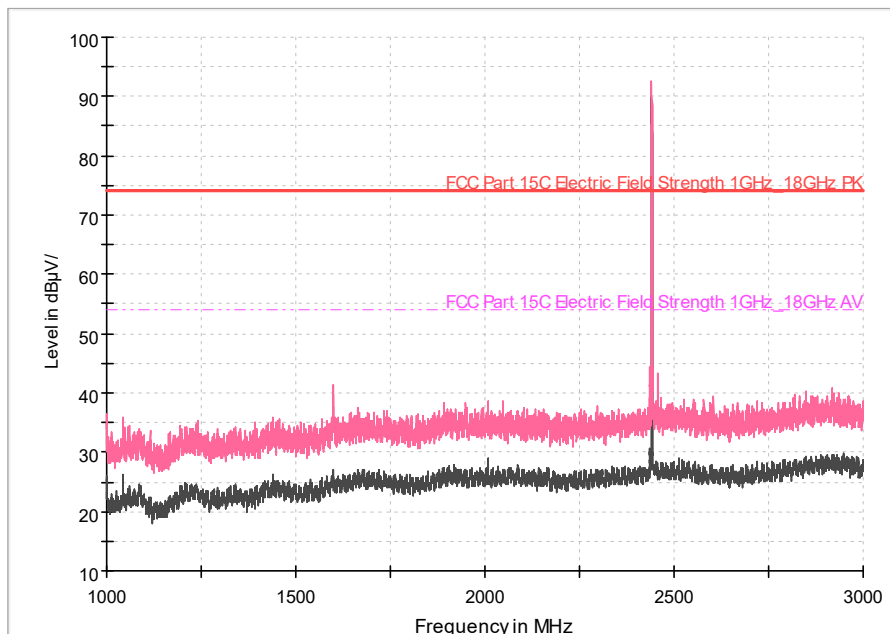
Full Spectrum



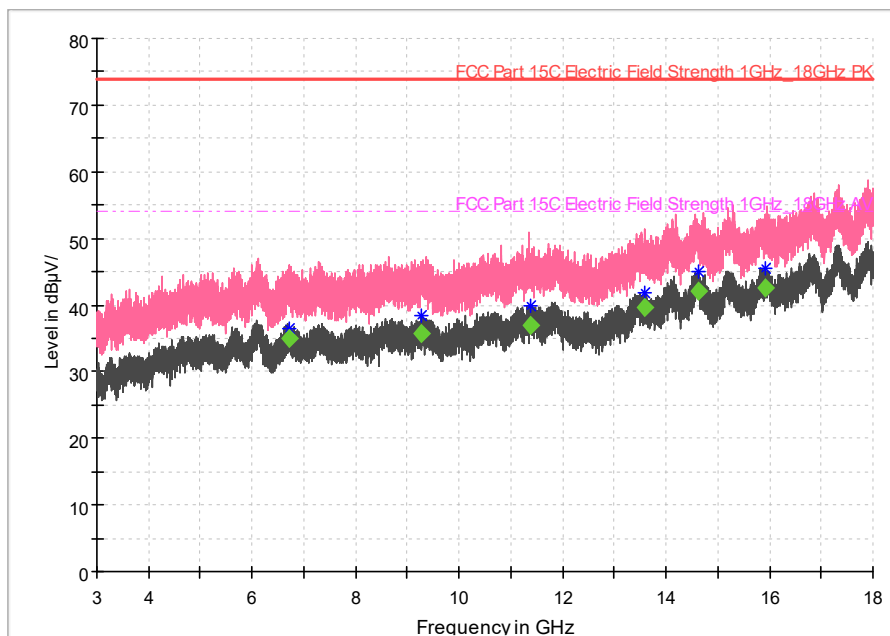
Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
6126.500	---	-152.83	---	36.17	54.00	17.83	189.00	Vertical
9354.000	---	-168.64	---	36.36	54.00	17.64	205.00	Vertical
11807.500	---	12.60	---	37.60	54.00	16.40	25.00	Vertical
14581.500	---	-162.68	---	42.32	54.00	11.68	205.00	Vertical
16864.500	---	-132.15	---	44.85	54.00	9.15	177.00	Vertical
17891.000	---	-247.78	---	47.22	54.00	6.78	295.00	Vertical

- EDR-2Mbps
Spurious Radiated Emissions from 1GHz to 18GHz:
 $\pi/4$ DQPSK:
CH Middle (No.39)

Full Spectrum



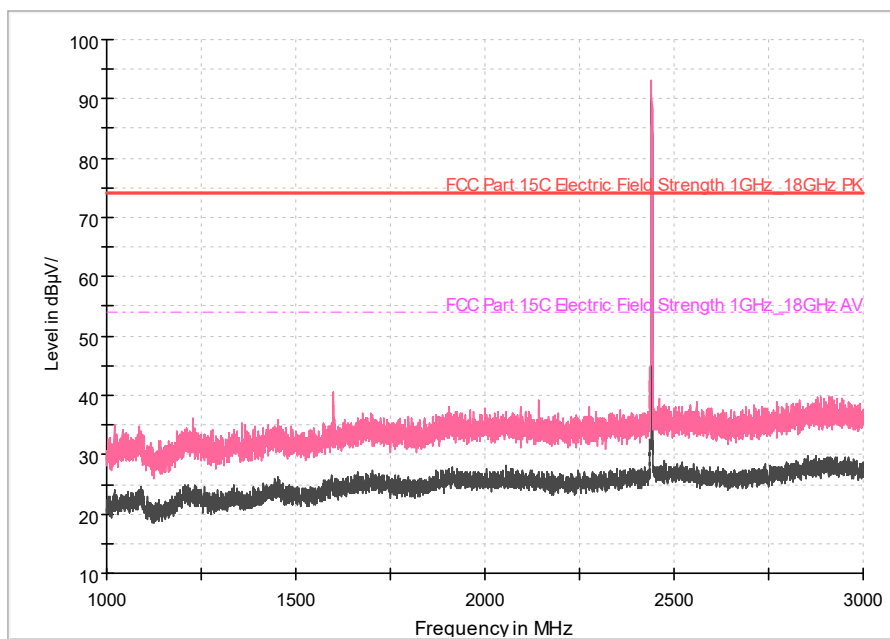
Full Spectrum



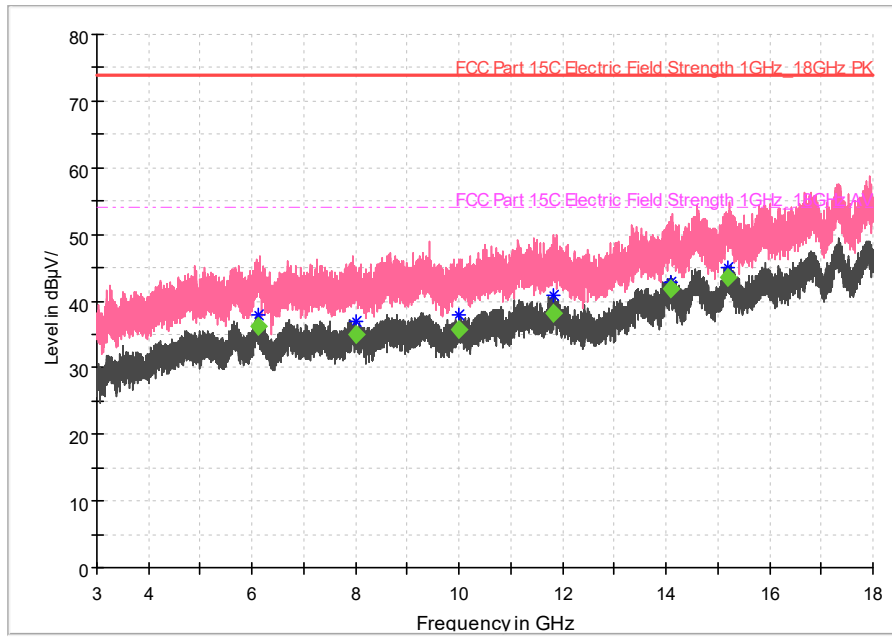
Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
6724.500	---	56.44	---	34.94	54.00	19.06	-21.50	Vertical
9283.000	---	55.43	---	35.73	54.00	18.27	-19.70	Vertical
11390.000	---	53.85	---	37.05	54.00	16.95	-16.80	Vertical
13597.000	---	54.20	---	39.70	54.00	14.30	-14.50	Vertical
14633.500	---	55.76	---	42.16	54.00	11.84	-13.60	Vertical
15929.000	---	56.44	---	42.54	54.00	11.46	-13.90	Vertical

- EDR-3Mbps
Spurious Radiated Emissions from 1GHz to 18GHz:
8DPSK:
CH Middle (No.39)

Full Spectrum



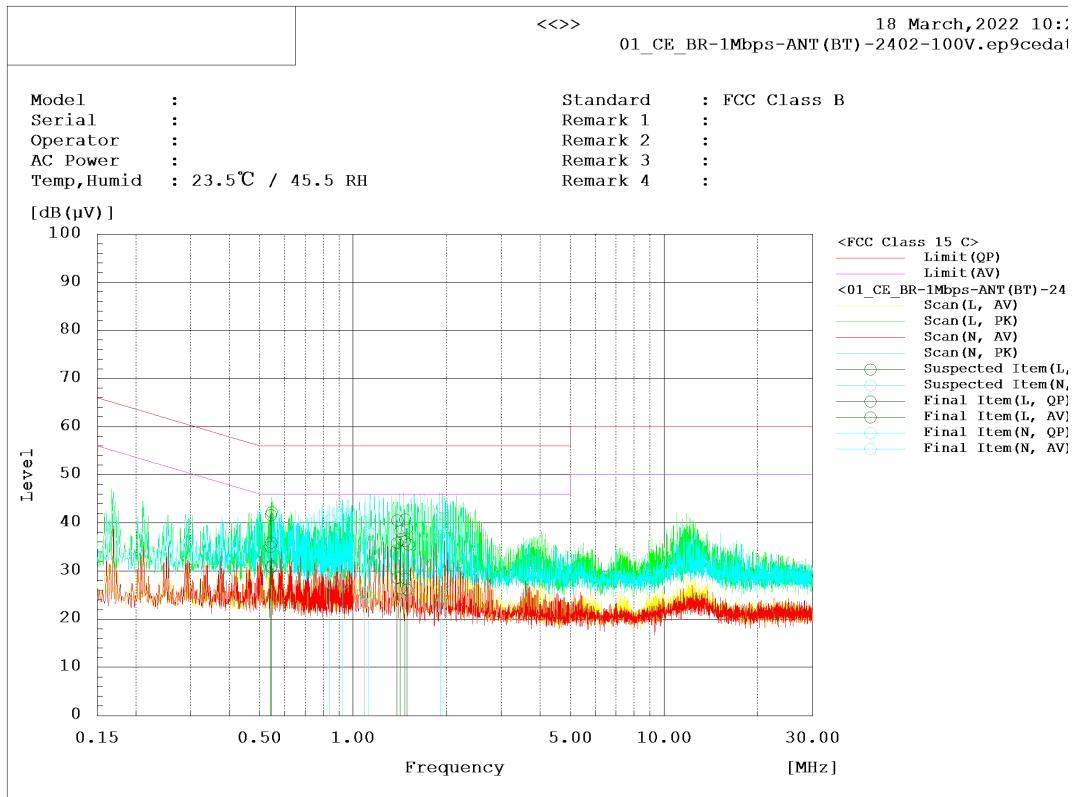
Full Spectrum



Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
6108.000	---	56.77	---	36.27	54.00	17.73	-20.50	Vertical
8002.500	---	56.09	---	34.99	54.00	19.01	-21.10	Vertical
9986.500	---	56.02	---	35.82	54.00	18.18	-20.20	Vertical
11836.000	---	54.76	---	38.06	54.00	15.94	-16.70	Vertical
14101.500	---	55.49	---	41.79	54.00	12.21	-13.70	Vertical
15190.500	---	57.12	---	43.62	54.00	10.38	-13.50	Vertical

AC Power line Conducted Emission

100V

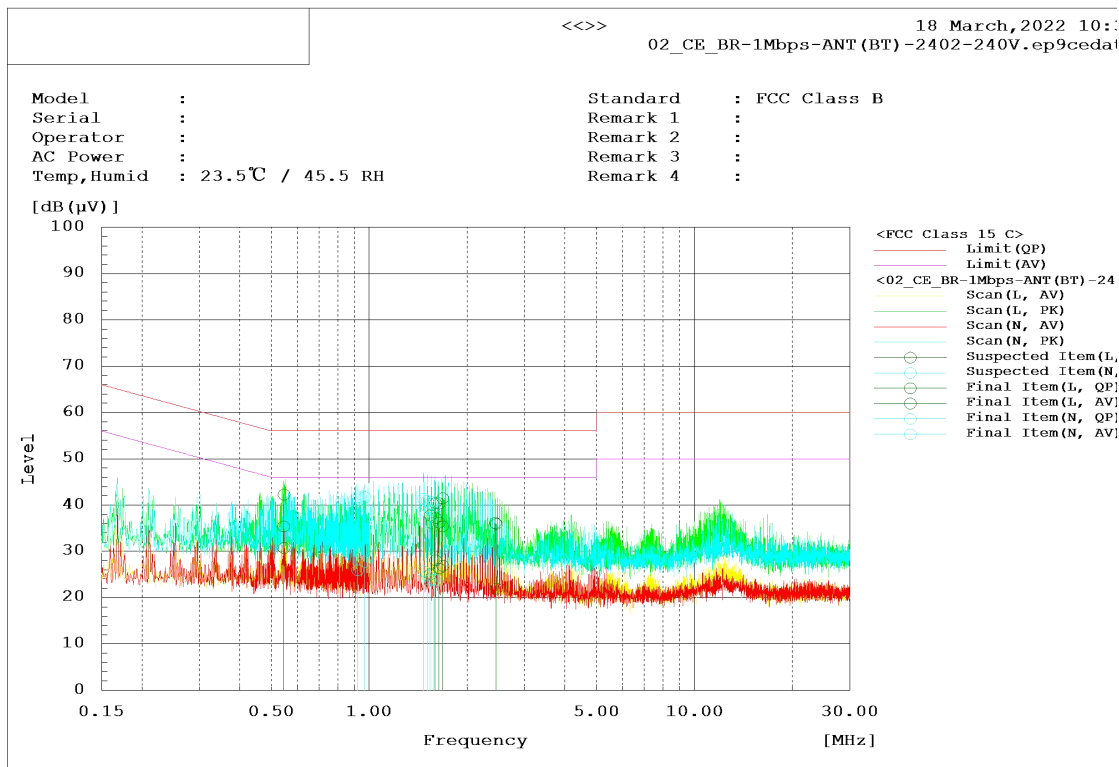


L+N Line

MEASUREMENT RESULT:

Range	Frequency MHz	Line	Reading			Factor	Level			Limit	Limit			Margin			Pass/Fail	
			dB(µV)				dB	dB(µV)			dB(µV)			dB				
			QP	AV	PK			QP	AV		PK	QP	AV	PK	QP	AV		PK
Band1	0.546	L	22.3	11.2		19.9	42.2	31.1		56	46		13.8	14.9		Pass		
Band1	0.543	L	21.8	10.9		19.9	41.7	30.8		56	46		14.3	15.2		Pass		
Band1	1.385	L	20.7	8.7		19.9	40.6	28.6		56	46		15.4	17.4		Pass		
Band1	1.416	L	18.4	6.5		19.9	38.3	26.4		56	46		17.7	19.6		Pass		
Band1	1.469	L	20.8	8.6		19.9	40.7	28.5		56	46		15.3	17.5		Pass		
Band1	1.489	L	19	6.3		19.9	38.9	26.2		56	46		17.1	19.8		Pass		
Band1	0.841	N	20.8	7.8		19.8	40.6	27.6		56	46		15.4	18.4		Pass		
Band1	0.926	N	22	7.6		19.8	41.8	27.4		56	46		14.2	18.6		Pass		
Band1	1.087	N	20.3	5.5		19.9	40.2	25.4		56	46		15.8	20.6		Pass		
Band1	1.123	N	20.6	4.8		19.9	40.5	24.7		56	46		15.5	21.3		Pass		
Band1	1.912	N	19.7	3.1		19.9	39.6	23		56	46		16.4	23		Pass		
Band1	1.935	N	23.3	6.8		19.9	43.2	26.7		56	46		12.8	19.3		Pass		

240V



L+N Line

MEASUREMENT RESULT:

Range	Frequency MHz	Line	Reading			Factor	Level			Limit			Margin			Pass/Fail	
			dB(μV)				dB	dB(μV)			dB(μV)			dB			
			QP	AV	PK			QP	AV	PK	QP	AV	PK	QP	AV		PK
Band1	0.92	N	19.7	6.2		19.8	39.5	26		56	46		16.5	20		Pass	
Band1	0.967	N	22	8		19.8	41.8	27.8		56	46		14.2	18.2		Pass	
Band1	1.466	N	21.5	5.9		19.9	41.4	25.8		56	46		14.6	20.2		Pass	
Band1	1.505	N	21.1	4.9		19.9	41	24.8		56	46		15	21.2		Pass	
Band1	1.539	N	20.4	3.9		19.9	40.3	23.8		56	46		15.7	22.2		Pass	
Band1	1.582	N	20.9	3.9		19.9	40.8	23.8		56	46		15.2	22.2		Pass	
Band1	0.547	L	22.4	10.9		19.9	42.3	30.8		56	46		13.7	15.2		Pass	
Band1	1.538	L	17.9	5.2		19.9	37.8	25.1		56	46		18.2	20.9		Pass	
Band1	1.595	L	20.6	8.2		19.9	40.5	28.1		56	46		15.5	17.9		Pass	
Band1	1.638	L	20.5	6.4		19.9	40.4	26.3		56	46		15.6	19.7		Pass	
Band1	1.681	L	21.6	7		19.9	41.5	26.9		56	46		14.5	19.1		Pass	
Band1	2.452	L	16.1	2.1		19.9	36	22		56	46		20	24		Pass	

---End of Test Report---