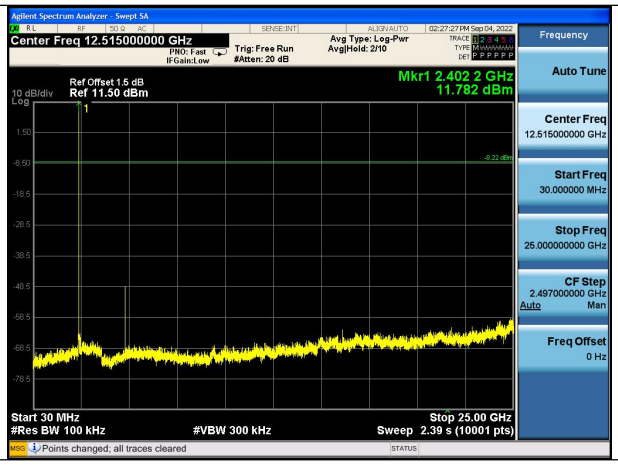
Test Mode: π/4DQPSK

CH0(Hopping off)

CH39(Hopping off)

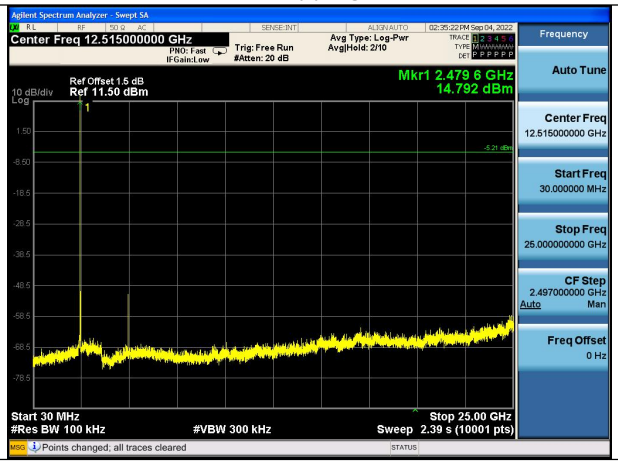
CH78(Hopping off)

Test Mode: 8DPSK



CH0(Hopping off)

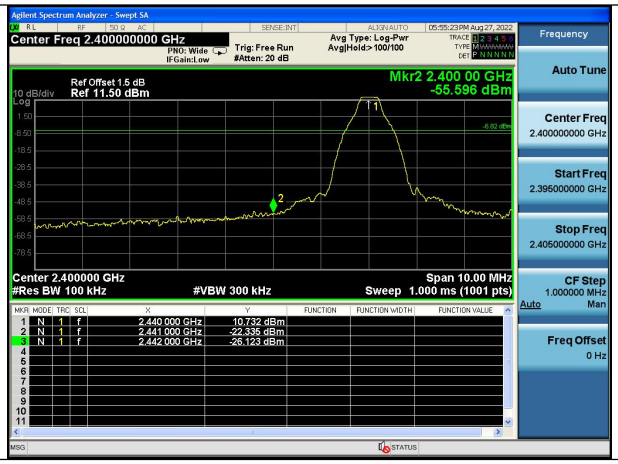
CH39(Hopping off)



CH78(Hopping off)

7 Band Edge measurement

Test Mode: GFSK



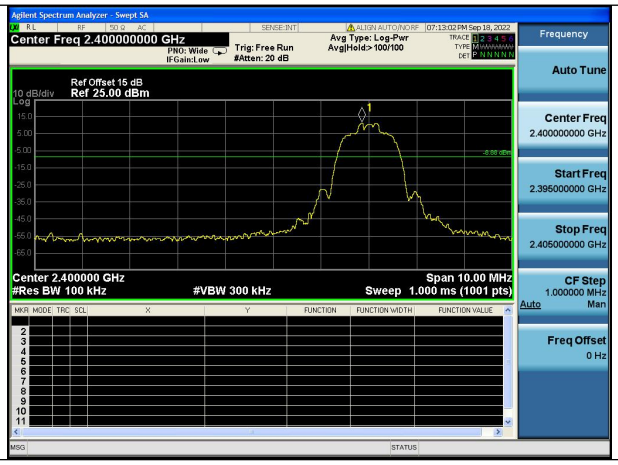
CH0(Hopping off)

CH0(Hopping on)

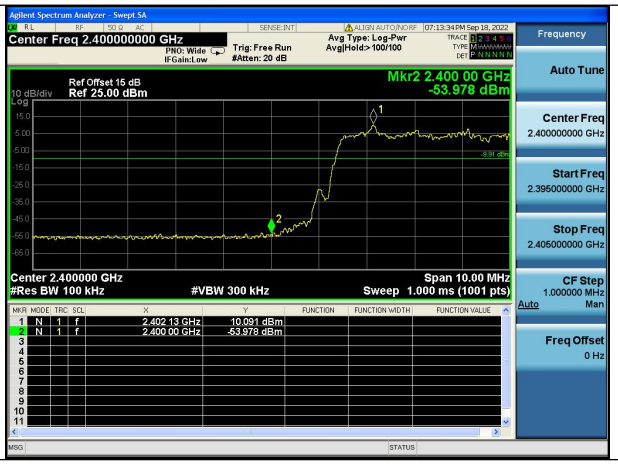
CH78(Hopping off)

CH78(Hopping on)

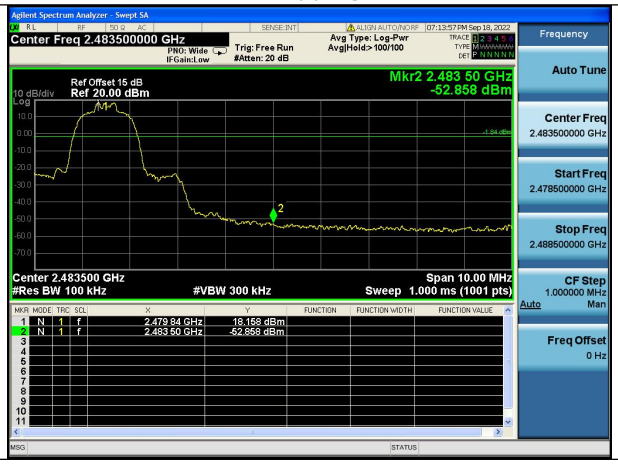
Test Mode: π/4DQPSK



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

Worst case(BT GFSK-DH5)

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: (89.30 dBuV/m) = (55.30 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	51.94	85.94	N/A	N/A	8.90	25.10
2390.0	6.10	40.10	-33.90	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	52.75	86.75	N/A	N/A	8.90	25.10
2390.0	-6.87	27.13	-26.87	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	53.60	87.60	N/A	N/A	8.90	25.10
2483.5	6.73	40.73	-33.27	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	53.70	87.70	N/A	N/A	8.90	25.10
2483.5	-5.97	28.03	-25.97	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: (30.73 dBμV/m) = (54.53 dBμV) + (-23.80 dB/m), the corresponding frequency is 30.097MHz.

The worst case attitude：The mobile lay down.

Spurious Radiated Emissions below 30MHz:

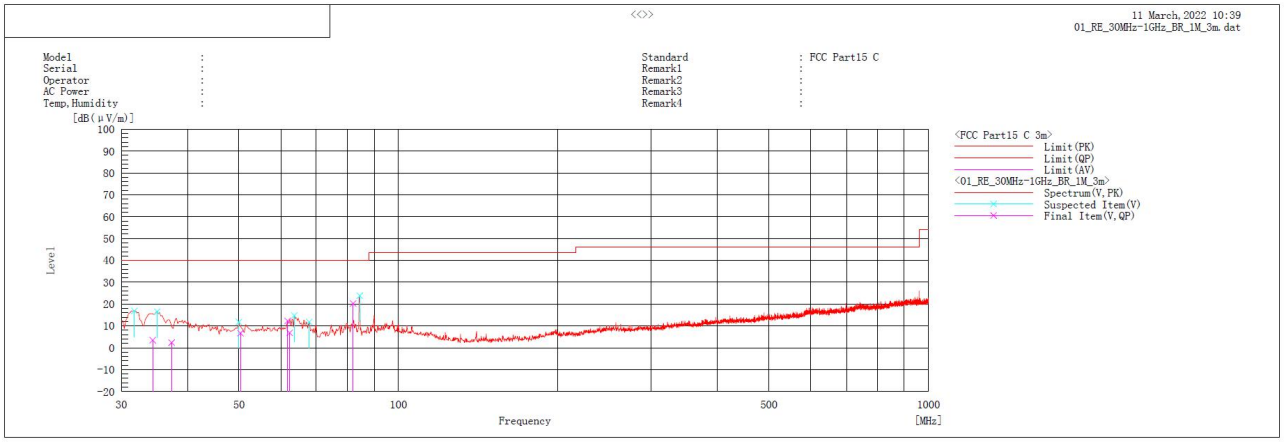
There were no emissions from 9 kHz to 30MHz found within 20dB of the limit. Thus, the test result was not reported according to §15.31 (o).

BR-1Mbps

Spurious Radiated Emissions from 30MHz to 1GHz:

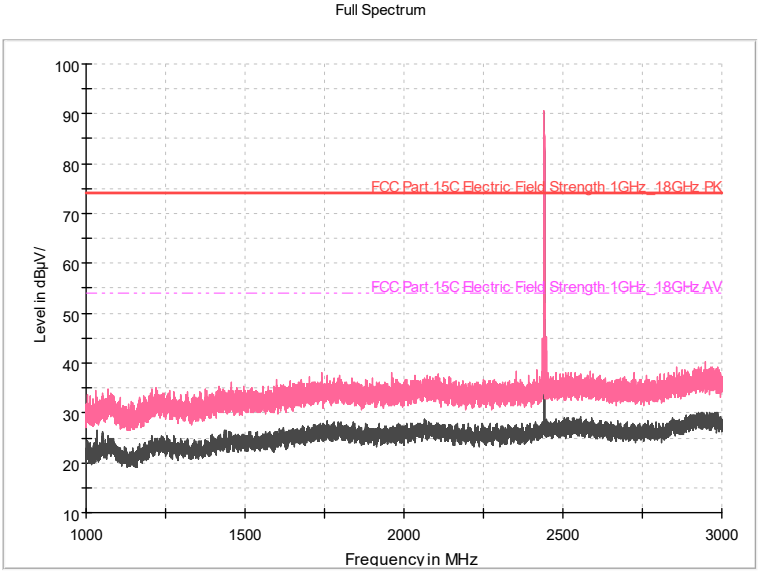
GFSK:

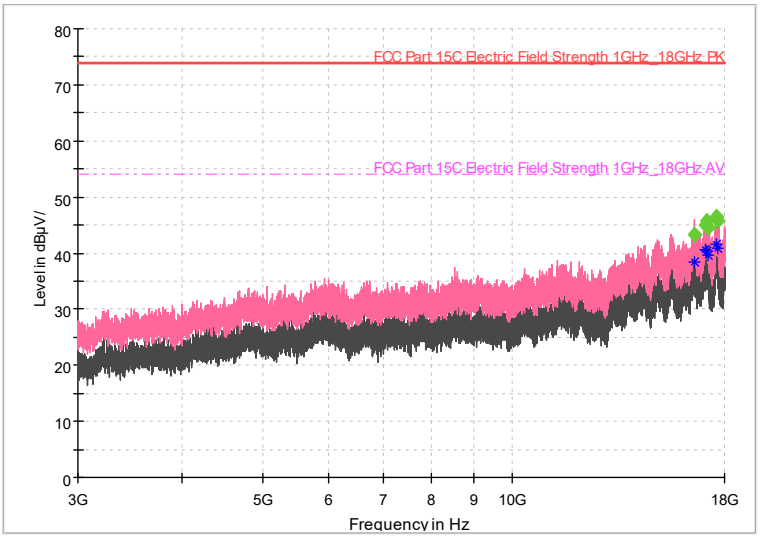
CH Middle (No.39)



Frequency (MHz)	Reading (dBuV)	QuasiPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A_{Rpl} (dB)	Polarity
30.68	52.30	28.30	40.00	11.70	-24.00	Vertical
70.08	44.20	19.30	40.00	20.70	-24.90	Vertical
89.05	52.20	27.20	43.50	16.30	-25.00	Vertical
131.42	49.60	23.80	43.50	19.70	-25.80	Vertical
206.05	40.80	17.90	43.50	25.60	-22.90	Vertical
217.52	53.20	30.60	46.00	15.40	-22.60	Vertical

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

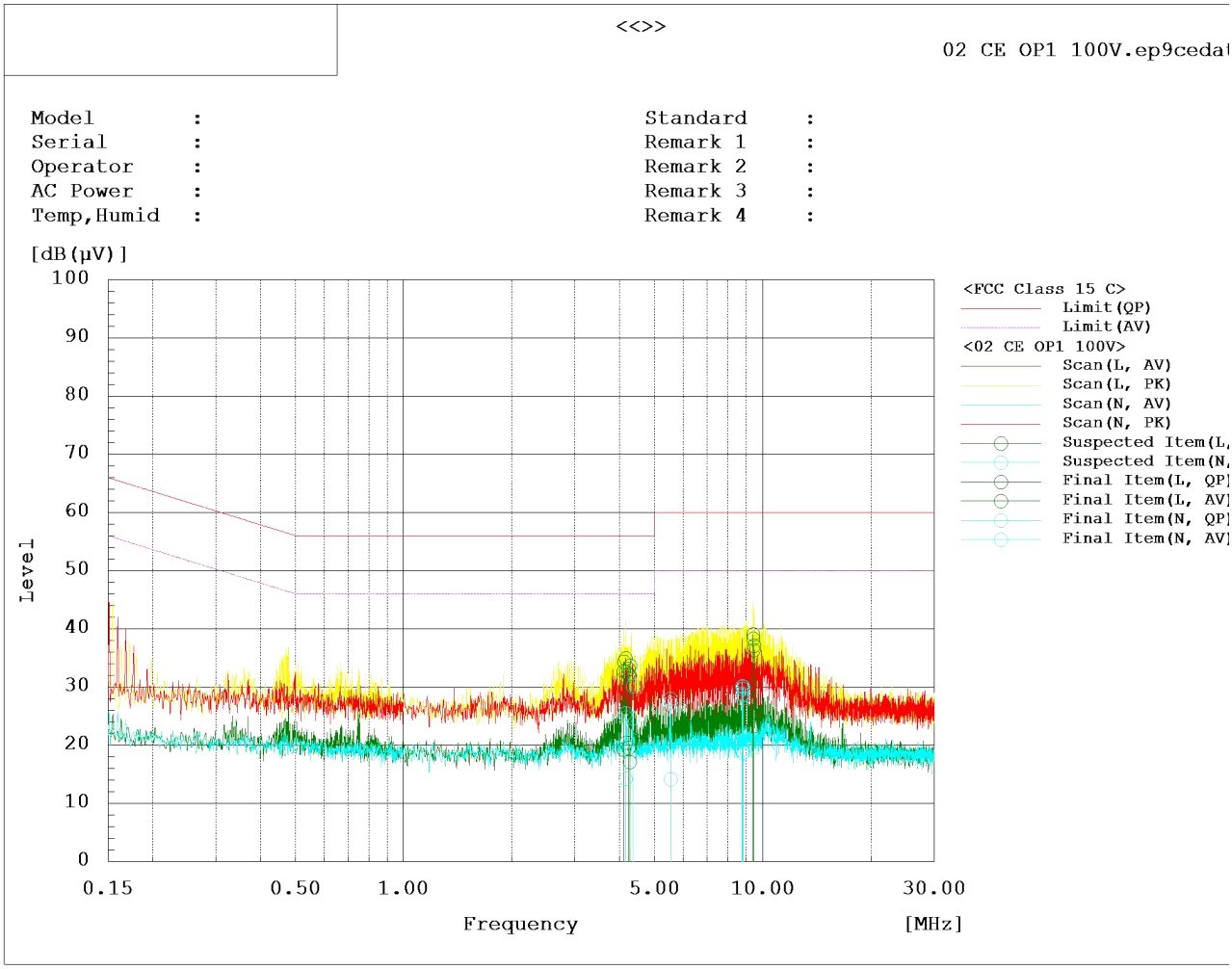




Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A_{Rpl} (dB)	Polarity
16586.50	---	56.50	---	43.20	54.00	10.80	-13.30	Vertical
17098.00	---	56.84	---	45.04	54.00	8.96	-11.80	Vertical
17140.00	---	57.29	---	45.69	54.00	8.31	-11.60	Vertical
17196.50	---	56.09	---	44.49	54.00	9.51	-11.60	Vertical
17613.00	---	57.60	---	46.50	54.00	7.50	-11.10	Vertical
17646.00	---	56.97	---	45.87	54.00	8.13	-11.10	Vertical

AC Power line Conducted Emission

100V

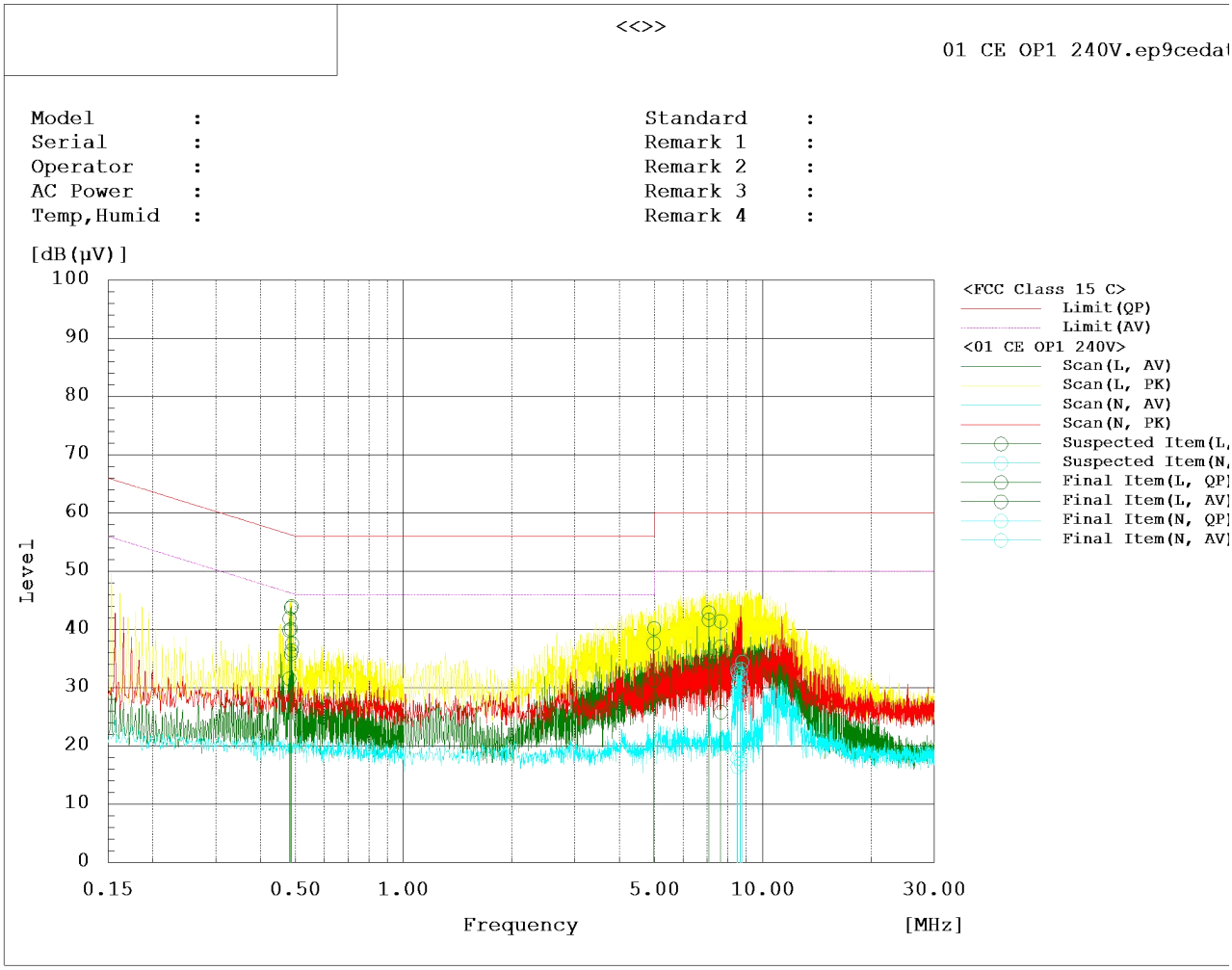


L+N Line

MEASUREMENT RESULT:

Range	Frequency	Line	Reading			Factor	Level			Limit	Limit			Margin			Pass/Fail
	MHz		dB(µV)			dB	dB(µV)			dB(µV)	dB(µV)			dB			
			QP	AV	PK		QP	AV	PK		QP	AV	PK	QP	AV	PK	
Band1	4.14	N	5.9	-5.4		19.6	25.5	14.2			56	46		30.5	31.8		Pass
Band1	4.34	N	10.5	1.3		19.6	30.1	20.9			56	46		25.9	25.1		Pass
Band1	5.54	N	7.6	-5.5		19.6	27.2	14.1			60	50		32.8	35.9		Pass
Band1	8.75	N	10.6	-0.4		19.6	30.2	19.2			60	50		29.8	30.8		Pass
Band1	8.8	N	10.1	-1		19.6	29.7	18.6			60	50		30.3	31.4		Pass
Band1	8.83	N	10.4	-0.8		19.6	30	18.8			60	50		30	31.2		Pass
Band1	4.1	L	13.1	-0.3		19.6	32.7	19.3			56	46		23.3	26.7		Pass
Band1	4.15	L	13	0.9		19.6	32.6	20.5			56	46		23.4	25.5		Pass
Band1	4.23	L	12.6	-0.1		19.6	32.2	19.5			56	46		23.8	26.5		Pass
Band1	4.25	L	12.3	-2.5		19.6	31.9	17.1			56	46		24.1	28.9		Pass
Band1	9.41	L	19.5	11		19.6	39.1	30.2			60	50		20.9	19.8		Pass
Band1	9.42	L	16.8	3.7		19.6	36.4	23.3			60	50		23.6	26.7		Pass

240V



L+N Line

MEASUREMENT RESULT:

Range	Frequency MHz	Line	Reading dB(µV)			Factor dB	Level dB(µV)			Limit dB(µV)	Limit dB(µV)			Margin dB			Pass/Fail
			QP	AV	PK		QP	AV	PK		QP	AV	PK	QP	AV	PK	
Band1	0.48	L	22.3	12		19.6	41.9	31.6			56.3	46.3		14.4	14.7		Pass
Band1	0.49	L	24.1	16		19.6	43.7	35.8			56.3	46.3		12.6	10.5		Pass
Band1	0.49	L	24.4	17		19.6	44	36.5			56.2	46.2		12.2	9.7		Pass
Band1	4.97	L	20.6	12		19.6	40.2	31.3			56	46		15.8	14.7		Pass
Band1	7.06	L	23.3	15		19.6	42.9	34.6			60	50		17.1	15.4		Pass
Band1	7.64	L	17.5	6.2		19.6	37.1	25.8			60	50		22.9	24.2		Pass
Band1	8.49	N	9.6	-1.7		19.6	29.2	17.9			60	50		30.8	32.1		Pass
Band1	8.52	N	11.3	-0.3		19.6	30.9	19.3			60	50		29.1	30.7		Pass
Band1	8.51	N	9	-3.2		19.6	28.6	16.4			60	50		31.4	33.6		Pass
Band1	8.64	N	12	-1.8		19.6	31.6	17.8			60	50		28.4	32.2		Pass
Band1	8.7	N	10.2	-2.7		19.6	29.8	16.9			60	50		30.2	33.1		Pass
Band1	8.75	N	10	-0.3		19.6	29.6	19.3			60	50		30.4	30.7		Pass

---End of Test Report---