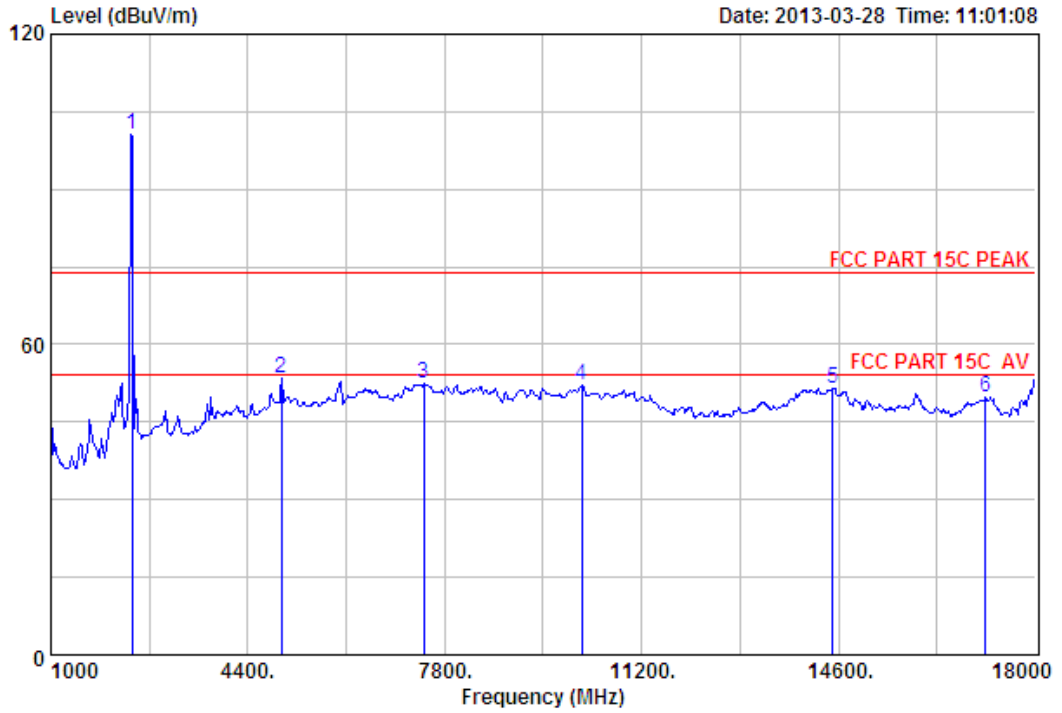


Site no. : 3m Chamber Data no. : 130
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : 8-DPSK TX 2480MHz
 Adapter 2

	Freq. (MHz)	Ant. Cable		Emission				
		Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark (dB)
1	126.03	11.34	3.44	7.13	21.91	43.50	21.59	QP
2	143.49	11.29	3.71	10.26	25.26	43.50	18.24	QP
3	155.13	10.67	3.82	9.26	23.75	43.50	19.75	QP
4	179.38	8.96	4.11	9.37	22.44	43.50	21.06	QP
5	196.84	7.72	4.26	11.54	23.52	43.50	19.98	QP
6	225.94	9.47	4.51	9.83	23.81	46.00	22.19	QP

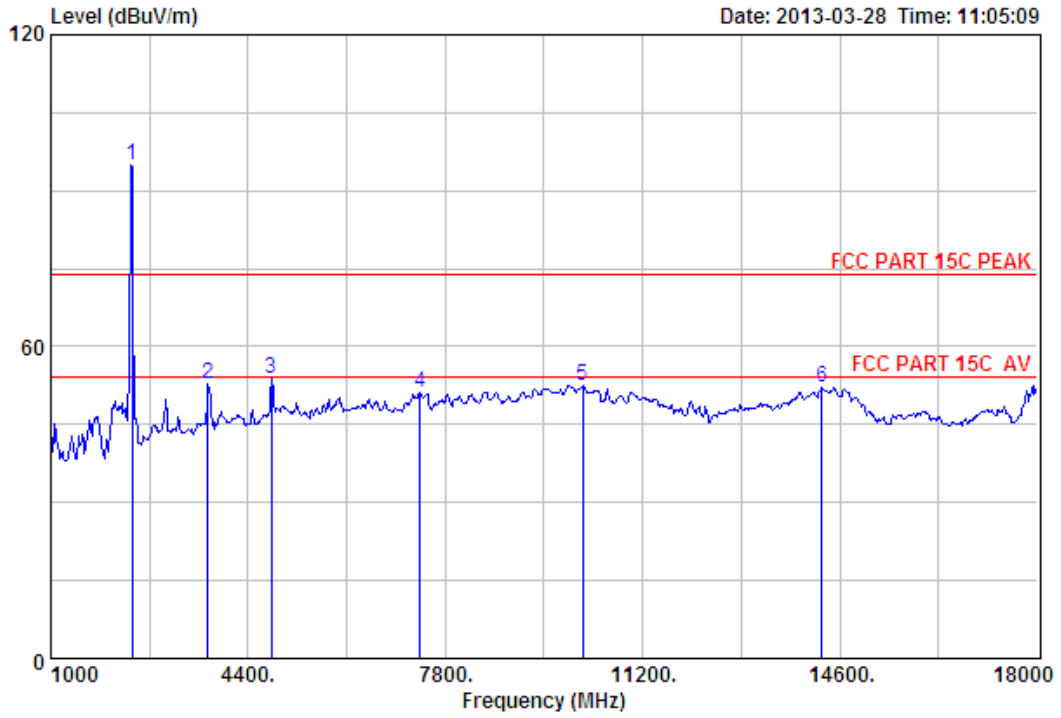
1000 MHz – 18000MHz



Site no. : 3m Chamber Data no. : 1
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : GFSK TX 2402MHz
 Adapter 1

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)			
1	27.61	6.62	34.18	100.56	100.61	74.00	-26.61	Peak
2	31.52	12.52	31.99	41.35	53.40	74.00	20.60	Peak
3	36.54	11.61	31.93	36.19	52.41	74.00	21.59	Peak
4	38.39	11.50	32.08	34.30	52.11	74.00	21.89	Peak
5	41.88	10.93	33.08	31.87	51.60	74.00	22.40	Peak
6	40.26	10.94	33.03	31.70	49.87	74.00	24.13	Peak

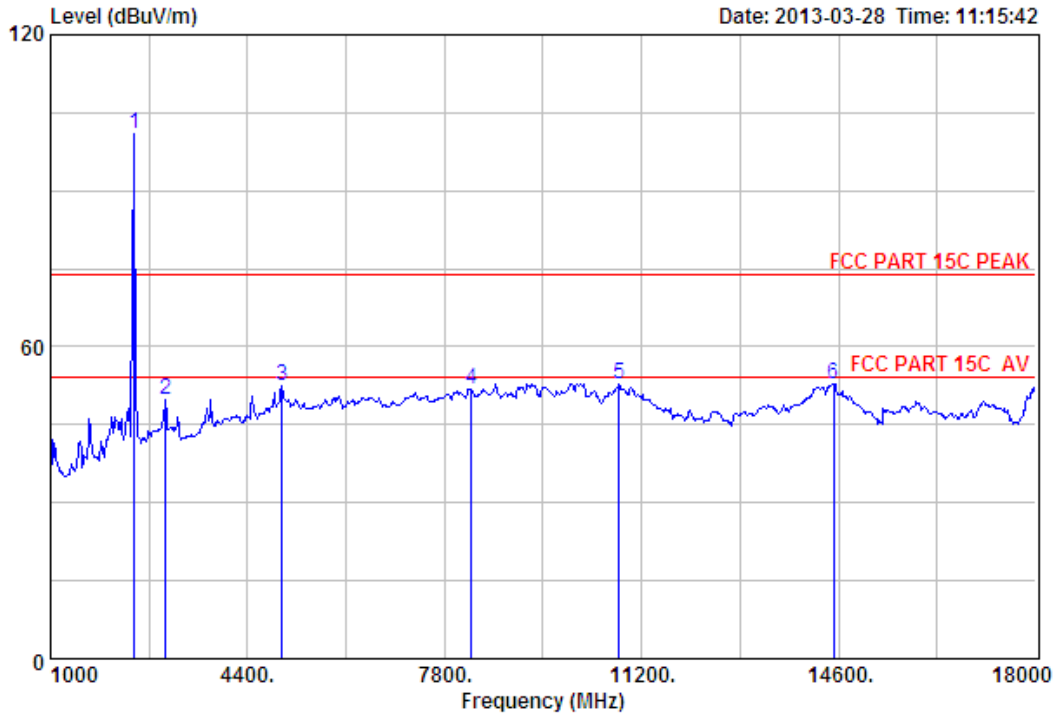
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : GFSK TX 2402MHz
 Adapter 1

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission		Margin (dB)	Remark
						Level (dBuV/m)	Limits (dBuV/m)		
1	2402.00	27.61	6.62	34.18	94.89	94.94	74.00	-20.94	Peak
2	3703.00	28.89	9.60	32.66	47.05	52.88	74.00	21.12	Peak
3	4804.00	31.25	11.77	31.81	42.52	53.73	74.00	20.27	Peak
4	7358.00	36.56	11.58	31.99	34.84	50.99	74.00	23.01	Peak
5	10163.00	38.39	11.50	32.08	34.65	52.46	74.00	21.54	Peak
6	14294.00	41.71	10.92	33.08	32.55	52.10	74.00	21.90	Peak

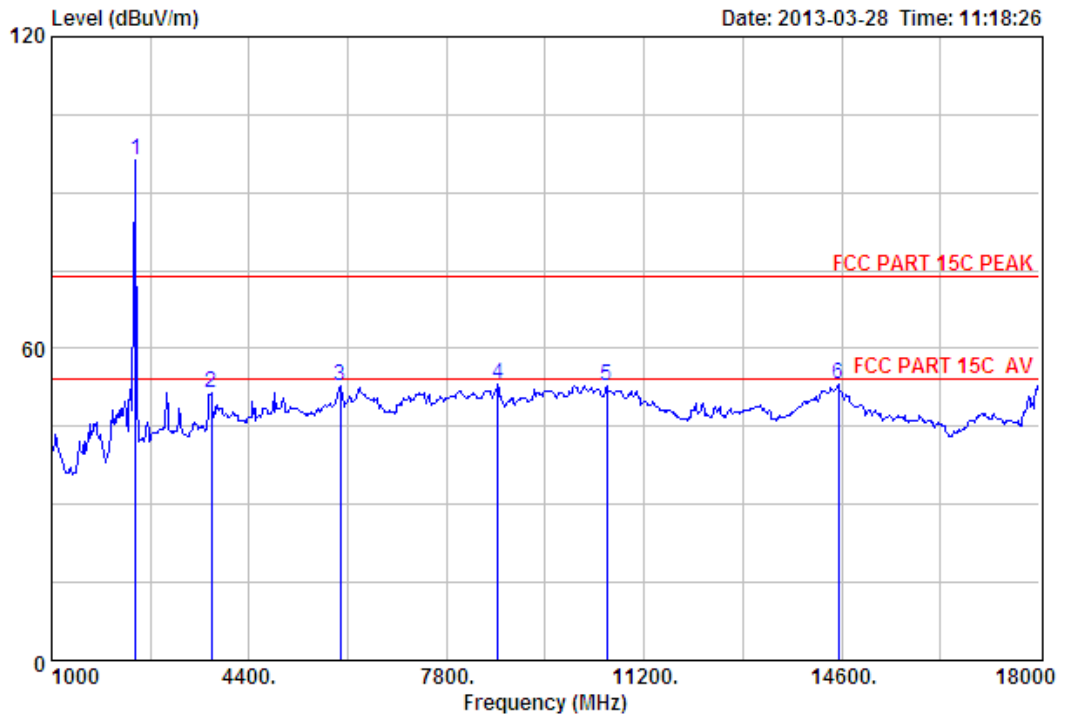
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 5
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : GFSK TX 2441MHz
 Adapter 1

	Ant.	Cable	Amp	Emission		Limits	Margin	Remark
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	(dBuV/m)	(dB)	
1	27.60	6.67	34.12	100.92	101.07	74.00	-27.07	Peak
2	28.19	8.97	33.58	46.32	49.90	74.00	24.10	Peak
3	31.54	12.59	32.00	40.50	52.63	74.00	21.37	Peak
4	36.67	11.43	31.53	35.39	51.96	74.00	22.04	Peak
5	39.31	11.30	33.30	35.61	52.92	74.00	21.08	Peak
6	41.89	10.93	33.14	33.10	52.78	74.00	21.22	Peak

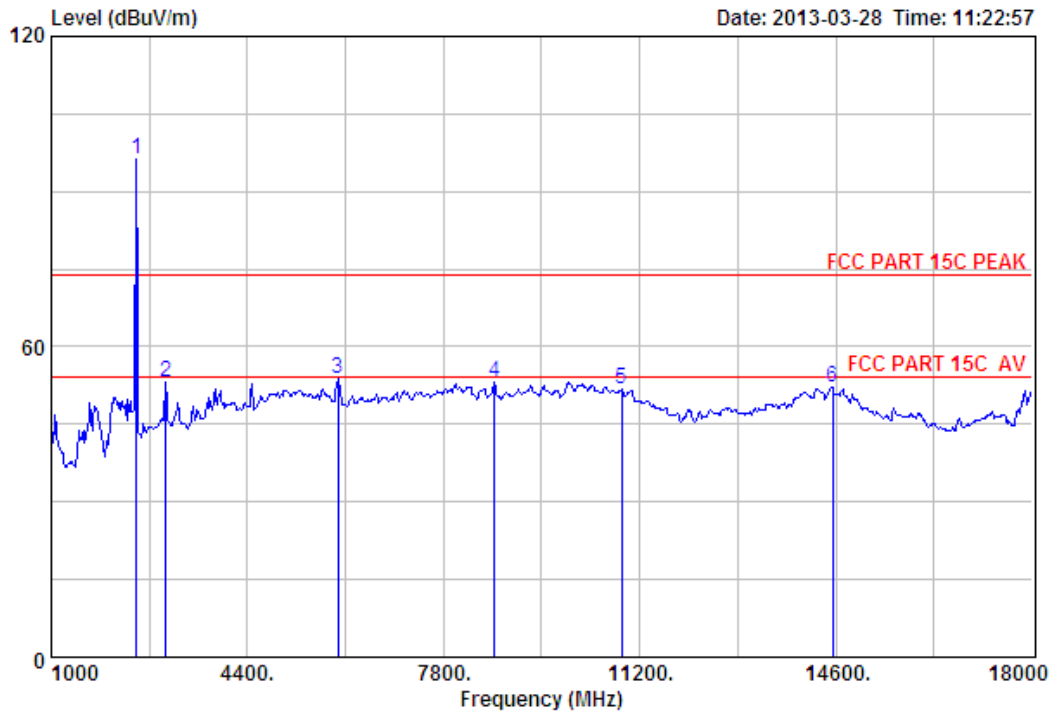
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 6
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6%;Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : GFSK TX 2441MHz
 Adapter 1

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBUV)	Emission		Limits (dBUV/m)	Margin (dB)	Remark
					Level (dBUV/m)	Level (dBUV/m)			
1	27.60	6.67	34.12	96.07	96.22	74.00	-22.22	Peak	
2	28.99	9.83	32.61	45.17	51.38	74.00	22.62	Peak	
3	32.70	12.11	32.28	40.35	52.88	74.00	21.12	Peak	
4	37.32	11.45	32.43	36.73	53.07	74.00	20.93	Peak	
5	39.04	11.31	32.82	35.43	52.96	74.00	21.04	Peak	
6	41.77	10.92	33.26	33.71	53.14	74.00	20.86	Peak	

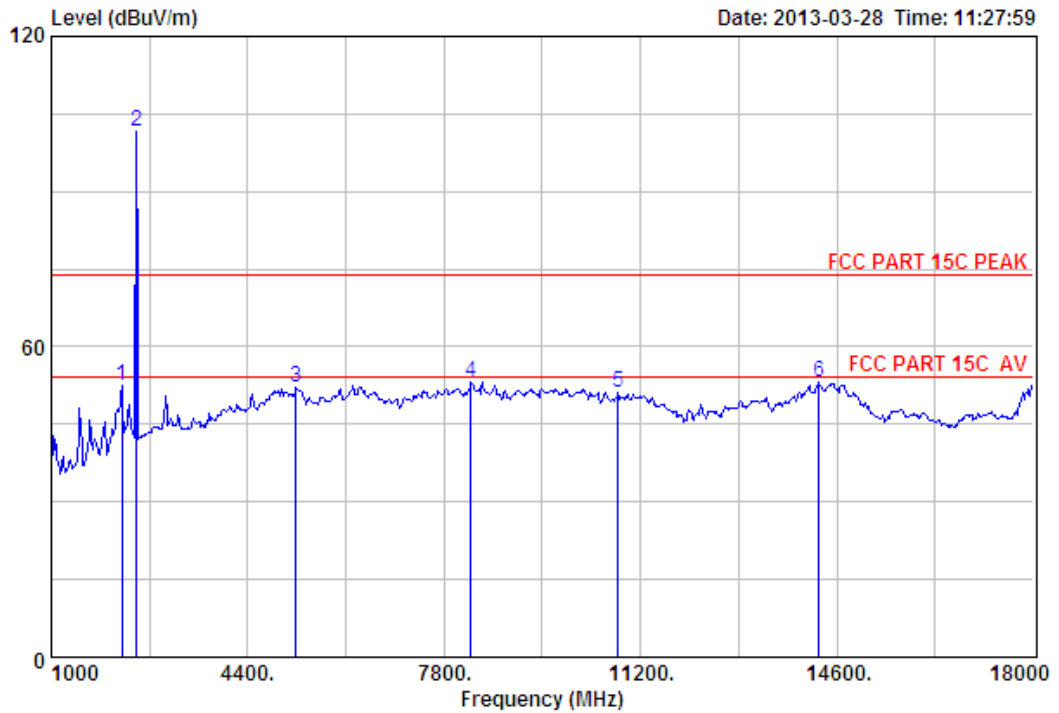
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 7
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : GFSK TX 2480MHz
 Adapter 1

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)			
1	27.58	6.71	34.03	95.88	96.14	74.00	-22.14	Peak
2	28.19	8.97	33.58	49.67	53.25	74.00	20.75	Peak
3	32.70	12.11	32.28	41.14	53.67	74.00	20.33	Peak
4	37.32	11.45	32.43	36.85	53.19	74.00	20.81	Peak
5	39.41	11.29	33.46	34.53	51.77	74.00	22.23	Peak
6	41.77	10.92	33.26	32.66	52.09	74.00	21.91	Peak

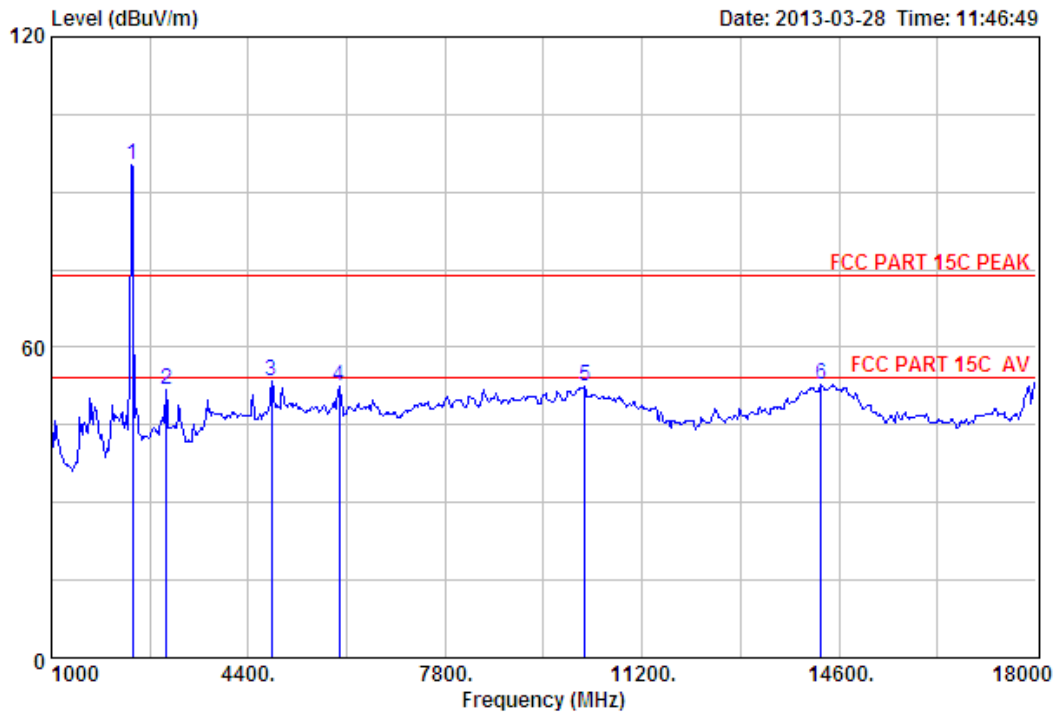
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 8
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : GFSK TX 2480MHz
 Adapter 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2224.00	27.81	6.43	34.30	52.58	52.52	74.00	21.48	Peak
2	2480.00	27.58	6.71	34.03	101.25	101.51	74.00	-27.51	Peak
3	5233.00	31.68	12.31	32.18	40.39	52.20	74.00	21.80	Peak
4	8259.00	36.67	11.43	31.53	36.51	53.08	74.00	20.92	Peak
5	10809.00	39.31	11.30	33.30	33.85	51.16	74.00	22.84	Peak
6	14294.00	41.71	10.92	33.08	33.46	53.01	74.00	20.99	Peak

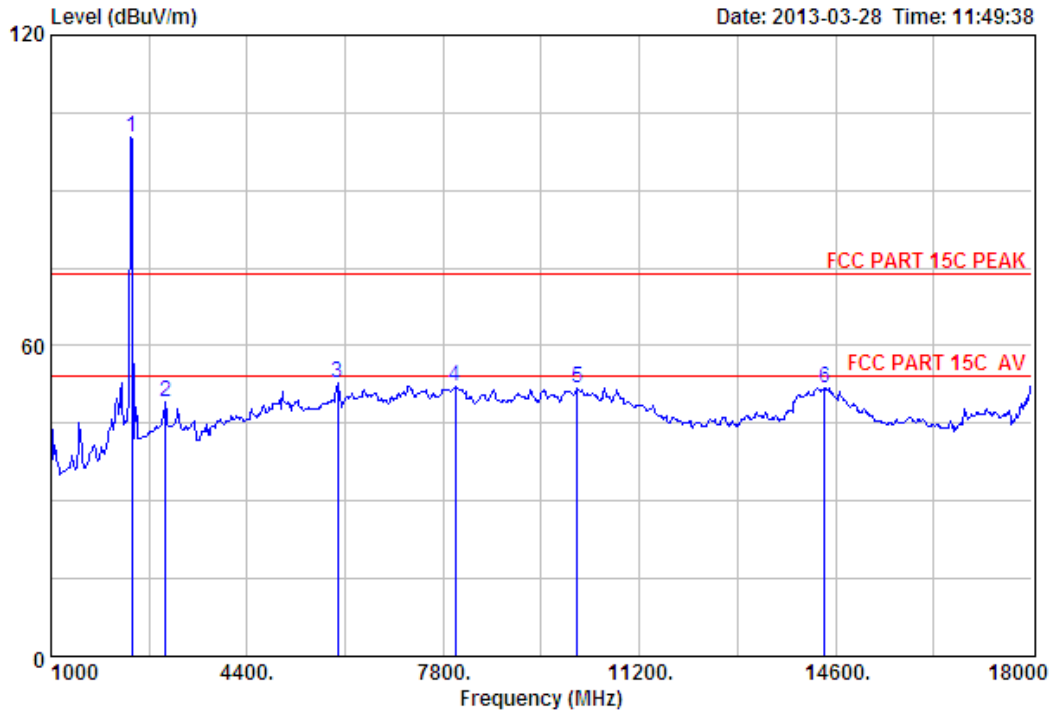
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 17
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : 8-DPSK TX 2402MHz
 Adapter 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	27.61	6.62	34.18	95.22	95.27	74.00	-21.27	Peak
2	2989.00	28.19	8.97	33.58	48.27	51.85	74.00	22.15	Peak
3	4804.00	31.25	11.77	31.81	42.31	53.52	74.00	20.48	Peak
4	5964.00	32.70	12.11	32.28	39.86	52.39	74.00	21.61	Peak
5	10214.00	38.48	11.47	32.17	34.56	52.34	74.00	21.66	Peak
6	14294.00	41.71	10.92	33.08	33.37	52.92	74.00	21.08	Peak

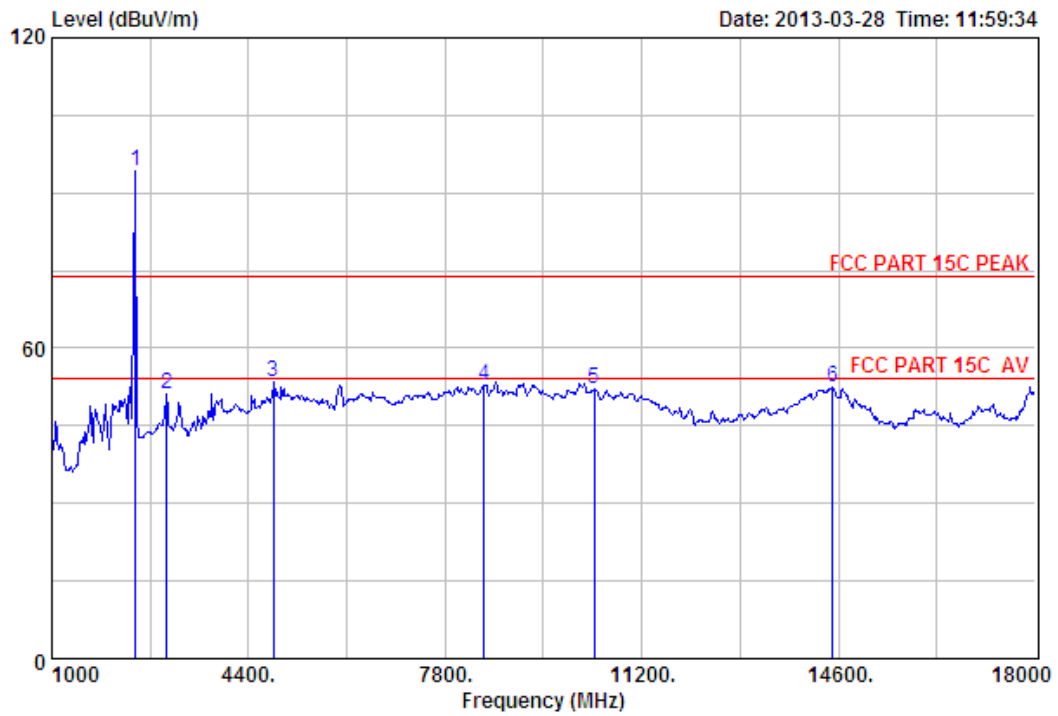
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 18
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humid:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : 8-DPSK TX 2402MHz
 Adapter 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	27.61	6.62	34.18	100.34	100.39	74.00	-26.39	Peak
2	2989.00	28.19	8.97	33.58	45.61	49.19	74.00	24.81	Peak
3	5964.00	32.70	12.11	32.28	40.12	52.65	74.00	21.35	Peak
4	8004.00	37.01	11.40	31.22	34.84	52.03	74.00	21.97	Peak
5	10129.00	38.33	11.52	32.01	34.08	51.92	74.00	22.08	Peak
6	14413.00	41.80	10.92	32.78	31.96	51.90	74.00	22.10	Peak

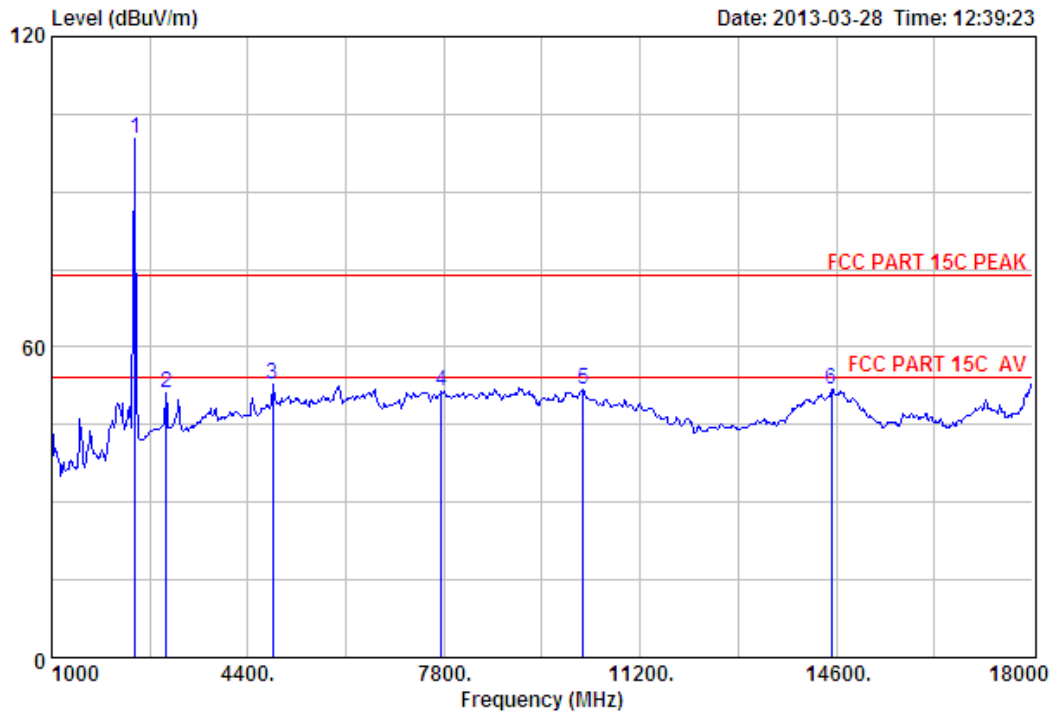
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 21
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : 8-DPSK IX 2441MHz
 Adapter 1

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission			Margin (dB)	Remark
					Level (dBuV/m)	Limits (dBuV/m)			
1	27.60	6.67	34.12	94.25	94.40	74.00	-20.40	Peak	
2	28.19	8.97	33.58	47.63	51.21	74.00	22.79	Peak	
3	31.28	11.84	31.83	42.15	53.44	74.00	20.56	Peak	
4	36.91	11.45	31.89	36.19	52.66	74.00	21.34	Peak	
5	38.77	11.38	32.50	34.38	52.03	74.00	21.97	Peak	
6	41.88	10.93	33.08	32.58	52.31	74.00	21.69	Peak	

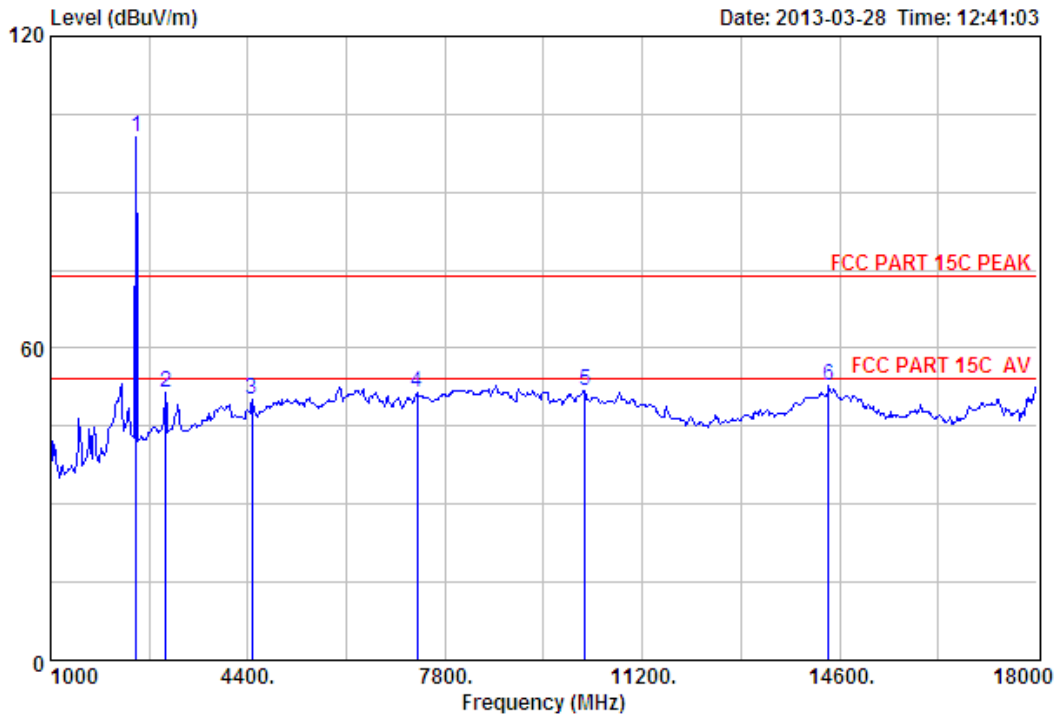
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 22
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : 8-DPSK TX 2441MHz
 Adapter 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	27.60	6.67	34.12	100.19	100.34	74.00	-26.34	Peak
2	2989.00	28.19	8.97	33.58	47.51	51.09	74.00	22.91	Peak
3	4825.00	31.28	11.84	31.83	41.38	52.67	74.00	21.33	Peak
4	7749.00	36.55	11.51	31.49	35.00	51.57	74.00	22.43	Peak
5	10214.00	38.48	11.47	32.17	34.02	51.80	74.00	22.20	Peak
6	14515.00	41.89	10.93	33.14	32.06	51.74	74.00	22.26	Peak

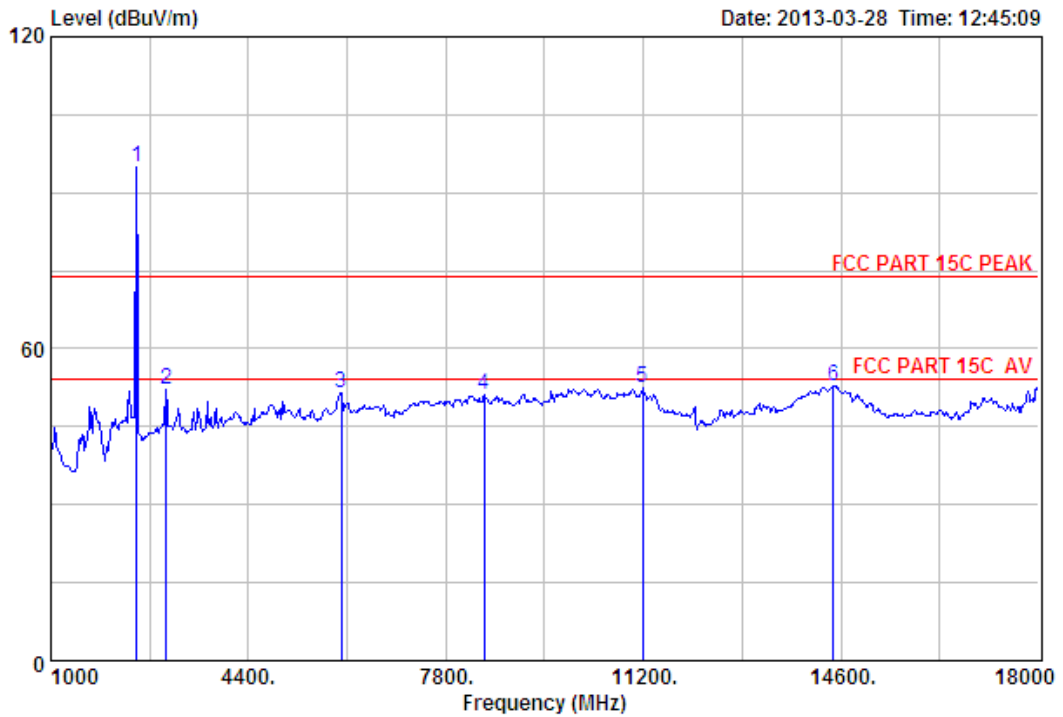
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 23
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : 8-DPSK TX 2480MHz
 Adapter 1

	Freq.	Ant.	Cable	Amp	Emission				Remark
	(MHz)	Factor	Loss	Factor	Reading	Level	Limits	Margin	
		(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2480.00	27.58	6.71	34.03	100.49	100.75	74.00	-26.75	Peak
2	2989.00	28.19	8.97	33.58	47.74	51.32	74.00	22.68	Peak
3	4468.00	30.53	10.45	31.81	41.10	50.27	74.00	23.73	Peak
4	7324.00	36.55	11.57	31.99	35.44	51.57	74.00	22.43	Peak
5	10214.00	38.48	11.47	32.17	34.03	51.81	74.00	22.19	Peak
6	14413.00	41.80	10.92	32.78	32.76	52.70	74.00	21.30	Peak

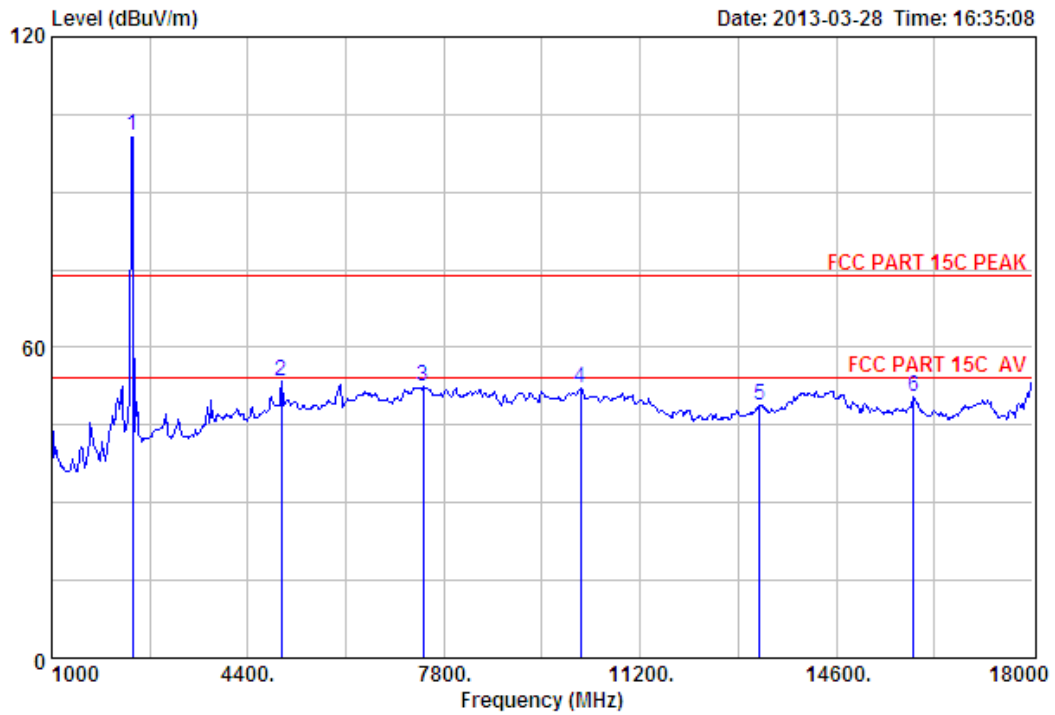
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 24
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : 8-DPSK TX 2480MHz
 Adapter 1

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission			Margin (dB)	Remark
					Level (dBuV/m)	Limits (dBuV/m)			
1	27.58	6.71	34.03	94.77	95.03	74.00	-21.03	Peak	
2	28.19	8.97	33.58	48.65	52.23	74.00	21.77	Peak	
3	32.77	12.12	32.25	38.94	51.58	74.00	22.42	Peak	
4	36.87	11.45	31.86	34.69	51.15	74.00	22.85	Peak	
5	39.40	11.15	34.00	35.79	52.34	74.00	21.66	Peak	
6	41.85	10.93	32.96	32.92	52.74	74.00	21.26	Peak	

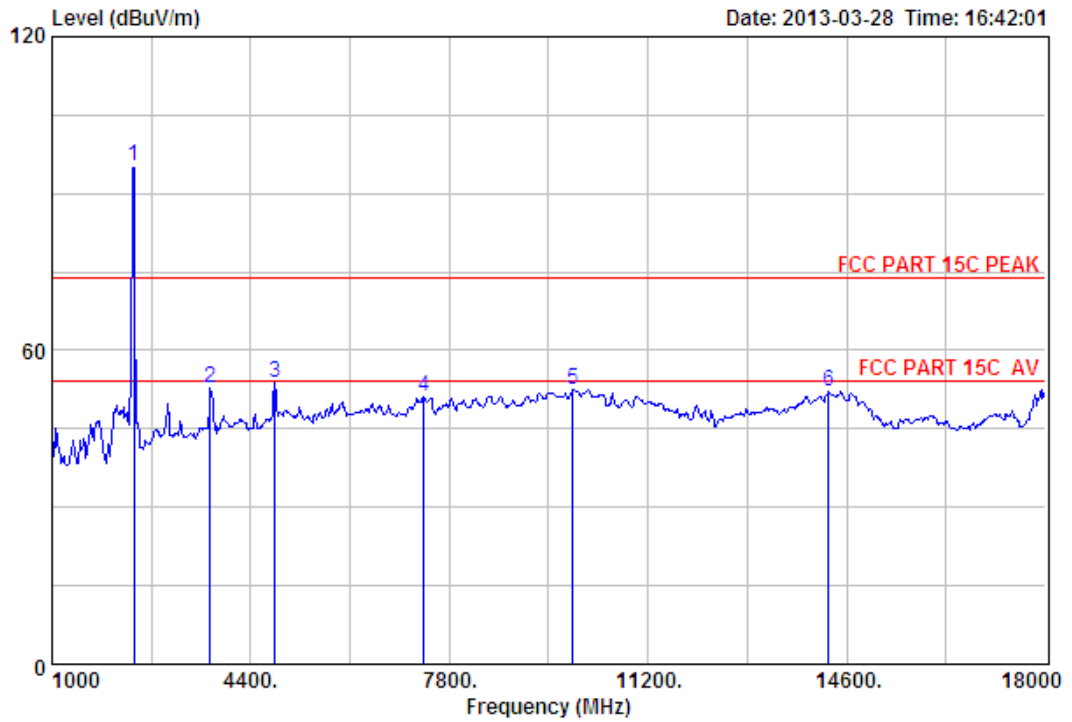
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 87
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : GFSK TX 2402MHz
 Adapter 2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	27.61	6.62	34.18	100.84	100.89	74.00	-26.89	Peak
2	4978.00	31.52	12.52	31.99	41.35	53.40	74.00	20.60	Peak
3	7443.00	36.54	11.61	31.93	36.19	52.41	74.00	21.59	Peak
4	10163.00	38.39	11.50	32.08	34.30	52.11	74.00	21.89	Peak
5	13274.00	39.54	11.47	34.79	32.58	48.80	74.00	25.20	Peak
6	15943.00	37.16	10.71	33.02	35.50	50.35	74.00	23.65	Peak

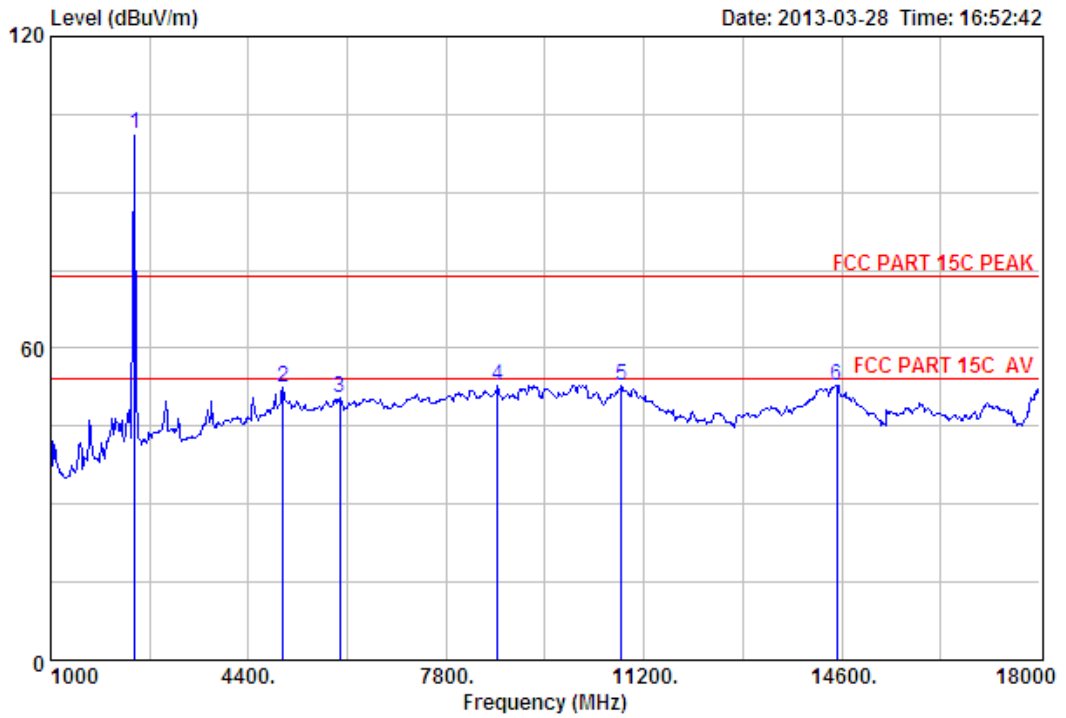
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 88
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : GFSK TX 2402MHz
 Adapter 2

	Freq.	Ant.	Cable	Amp	Emission				Remark
	(MHz)	Factor	Loss	Factor	Reading	Level	Limits	Margin	
		(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2402.00	27.61	6.62	34.18	95.27	95.32	74.00	-21.32	Peak
2	3703.00	28.89	9.60	32.66	47.05	52.88	74.00	21.12	Peak
3	4808.00	31.25	11.77	31.81	42.52	53.73	74.00	20.27	Peak
4	7358.00	36.56	11.58	31.99	34.84	50.99	74.00	23.01	Peak
5	9908.00	38.14	11.61	31.76	34.63	52.62	74.00	21.38	Peak
6	14294.00	41.71	10.92	33.08	32.55	52.10	74.00	21.90	Peak

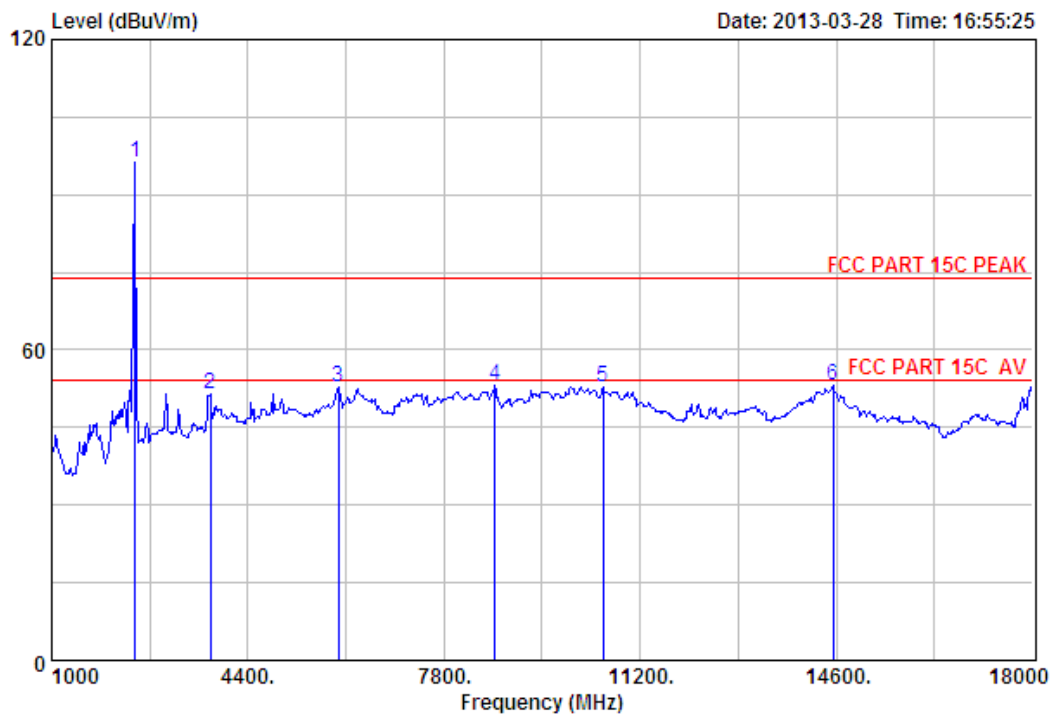
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 91
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : GFSK TX 2441MHz
 Adapter 2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	27.60	6.67	34.12	101.11	101.26	74.00	-27.26	Peak
2	4995.00	31.54	12.59	32.00	40.50	52.63	74.00	21.37	Peak
3	5964.00	32.70	12.11	32.28	37.81	50.34	74.00	23.66	Peak
4	8684.00	37.32	11.45	32.43	36.31	52.65	74.00	21.35	Peak
5	10809.00	39.31	11.30	33.30	35.61	52.92	74.00	21.08	Peak
6	14515.00	41.89	10.93	33.14	33.10	52.78	74.00	21.22	Peak

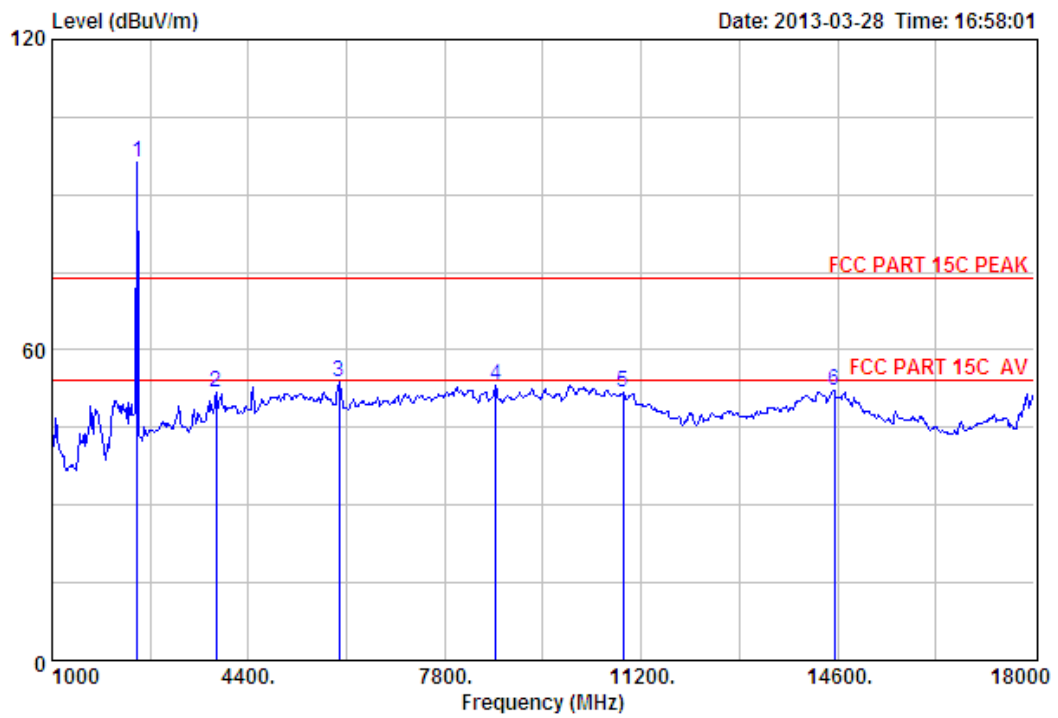
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 92
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : GFSK TX 2441MHz
 Adapter 2

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission		Margin (dB)	Remark
					Level (dBuV/m)	Limits (dBuV/m)		
1	27.60	6.67	34.12	96.07	96.22	74.00	-22.22	Peak
2	28.99	9.83	32.61	45.17	51.38	74.00	22.62	Peak
3	32.70	12.11	32.28	40.35	52.88	74.00	21.12	Peak
4	37.32	11.45	32.43	36.73	53.07	74.00	20.93	Peak
5	39.04	11.31	32.82	35.43	52.96	74.00	21.04	Peak
6	41.77	10.92	33.26	33.71	53.14	74.00	20.86	Peak

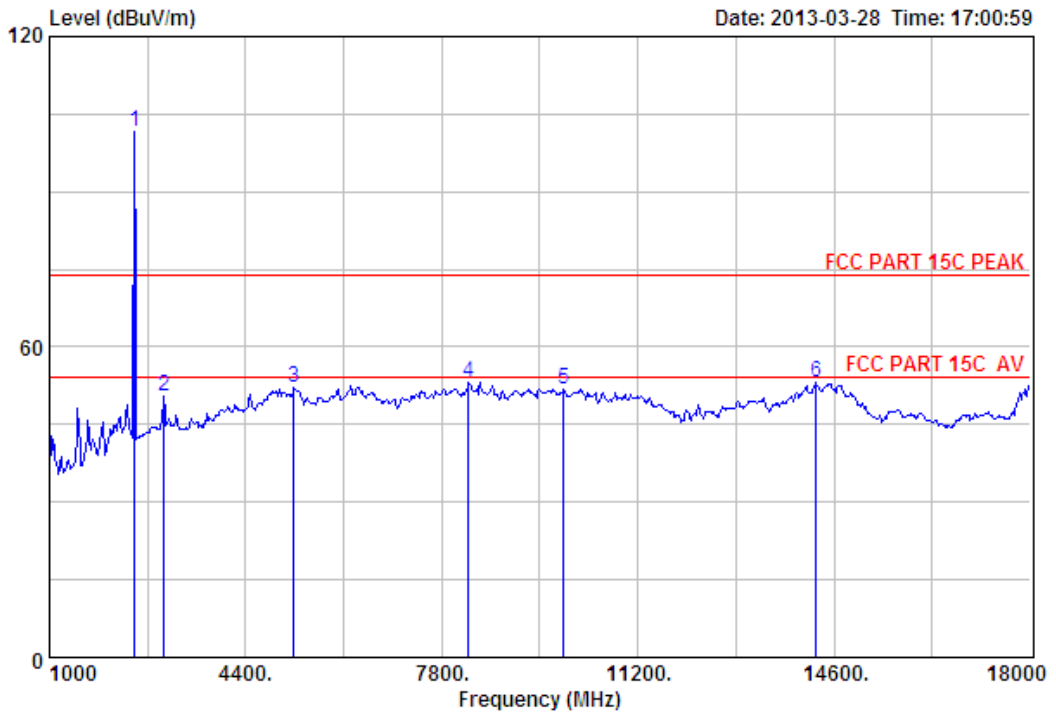
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 93
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : GFSK TX 2480MHz
 Adapter 2

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission			Remark
					Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	27.58	6.71	34.03	95.88	96.14	74.00	-22.14	Peak
2	29.21	10.21	32.50	44.76	51.68	74.00	22.32	Peak
3	32.70	12.11	32.28	41.14	53.67	74.00	20.33	Peak
4	37.32	11.45	32.43	36.85	53.19	74.00	20.81	Peak
5	39.41	11.29	33.46	34.53	51.77	74.00	22.23	Peak
6	41.77	10.92	33.26	32.66	52.09	74.00	21.91	Peak

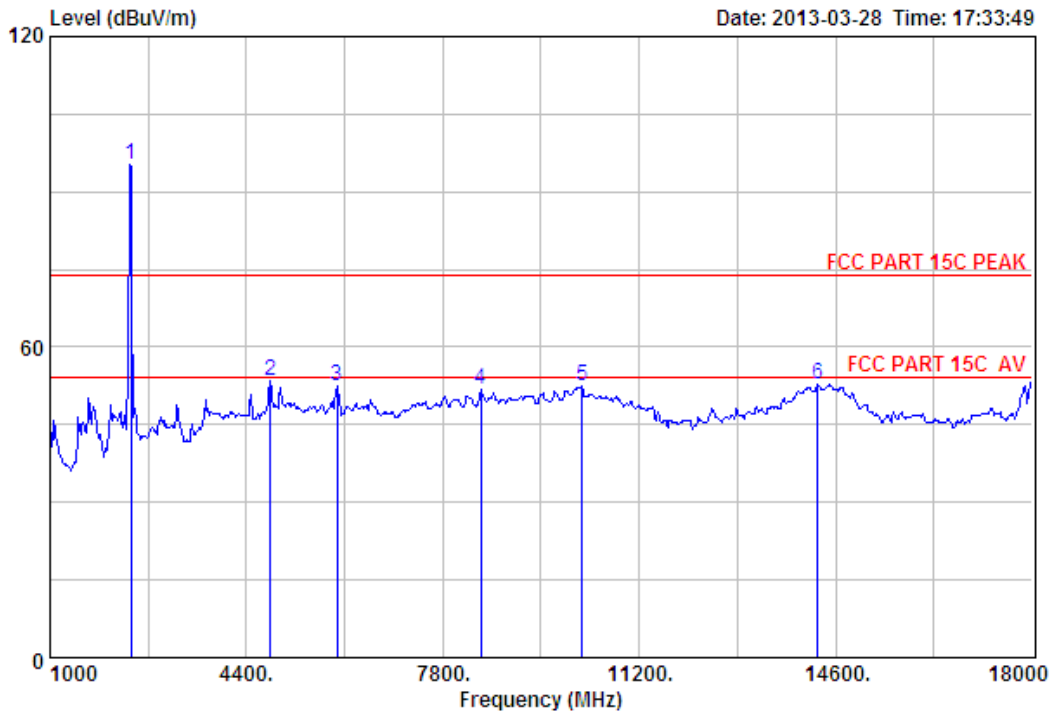
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 94
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : GFSK TX 2480MHz
 Adapter 2

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission		Margin (dB)	Remark
					Level (dBuV/m)	Limits (dBuV/m)		
1	27.58	6.71	34.03	101.25	101.51	74.00	-27.51	Peak
2	28.19	8.97	33.58	46.99	50.57	74.00	23.43	Peak
3	31.68	12.31	32.18	40.39	52.20	74.00	21.80	Peak
4	36.67	11.43	31.53	36.51	53.08	74.00	20.92	Peak
5	38.14	11.61	31.76	33.86	51.85	74.00	22.15	Peak
6	41.71	10.92	33.08	33.46	53.01	74.00	20.99	Peak

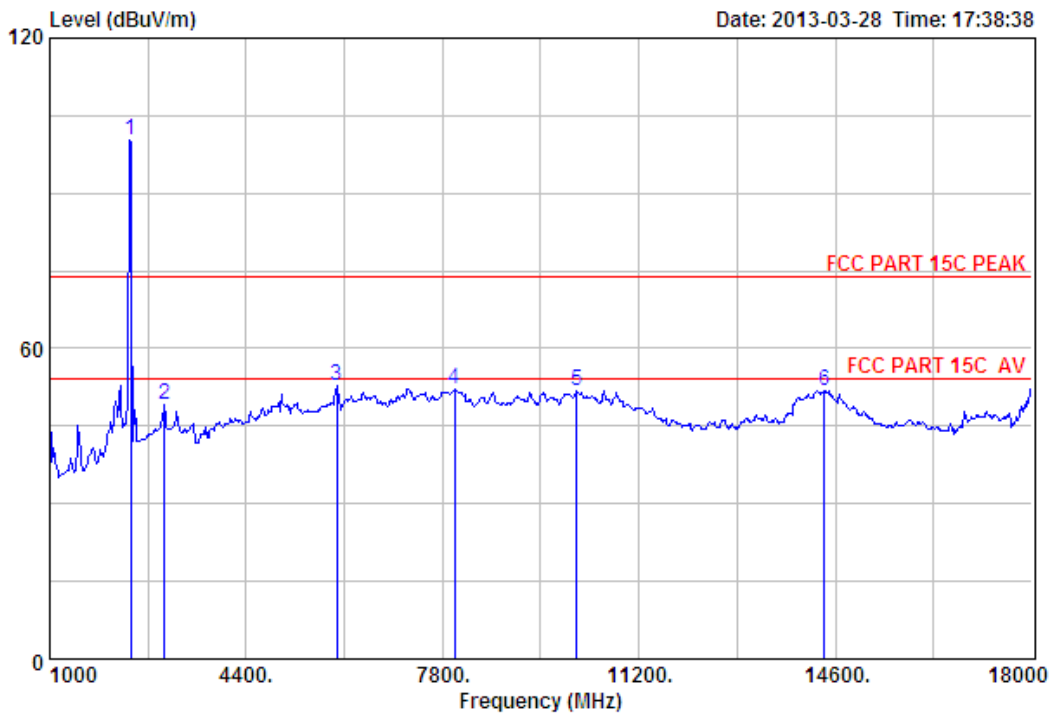
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 103
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : 8-DPSK TX 2402MHz
 Adapter 2

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission		Margin (dB)	Remark
					Level (dBuV/m)	Limits (dBuV/m)		
1	27.61	6.62	34.18	95.27	95.32	74.00	-21.32	Peak
2	31.25	11.77	31.81	42.31	53.52	74.00	20.48	Peak
3	32.70	12.11	32.28	39.86	52.39	74.00	21.61	Peak
4	36.87	11.45	31.86	35.33	51.79	74.00	22.21	Peak
5	38.48	11.47	32.17	34.56	52.34	74.00	21.66	Peak
6	41.71	10.92	33.08	33.37	52.92	74.00	21.08	Peak

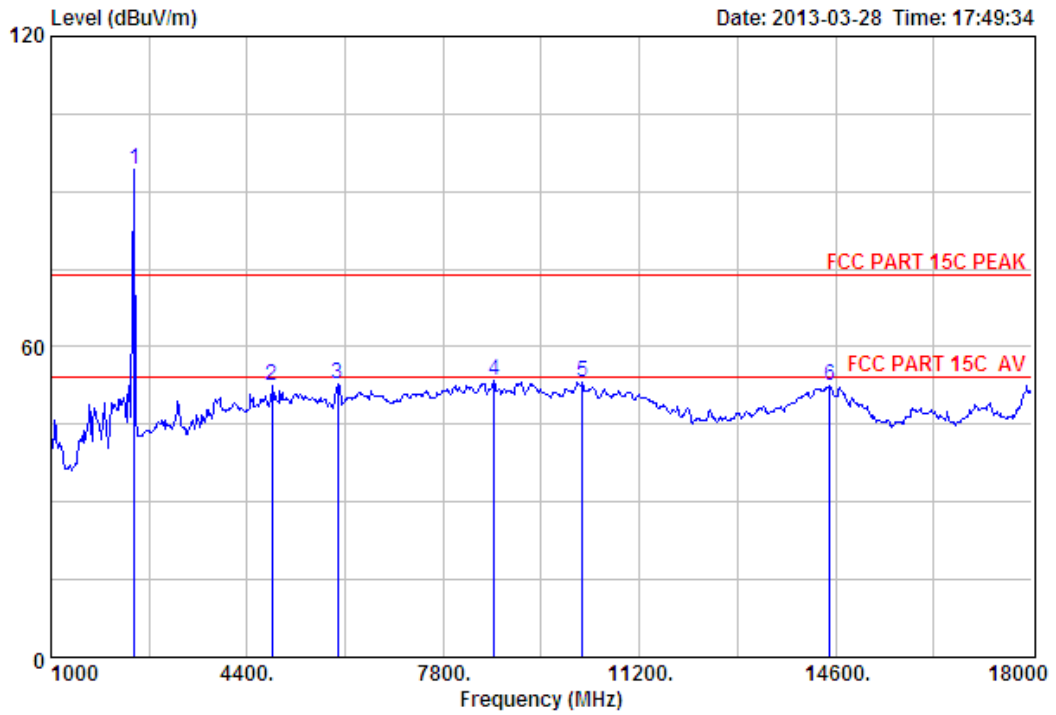
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 104
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : 8-DPSK TX 2402MHz
 Adapter 2

	Ant.	Cable	Amp	Emission		Limits	Margin	Remark
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	(dBuV/m)	(dB)	
1	27.61	6.62	34.18	100.34	100.39	74.00	-26.39	Peak
2	28.19	8.97	33.58	45.61	49.19	74.00	24.81	Peak
3	32.70	12.11	32.28	40.12	52.65	74.00	21.35	Peak
4	37.01	11.40	31.22	34.84	52.03	74.00	21.97	Peak
5	38.33	11.52	32.01	34.08	51.92	74.00	22.08	Peak
6	41.80	10.92	32.78	31.96	51.90	74.00	22.10	Peak

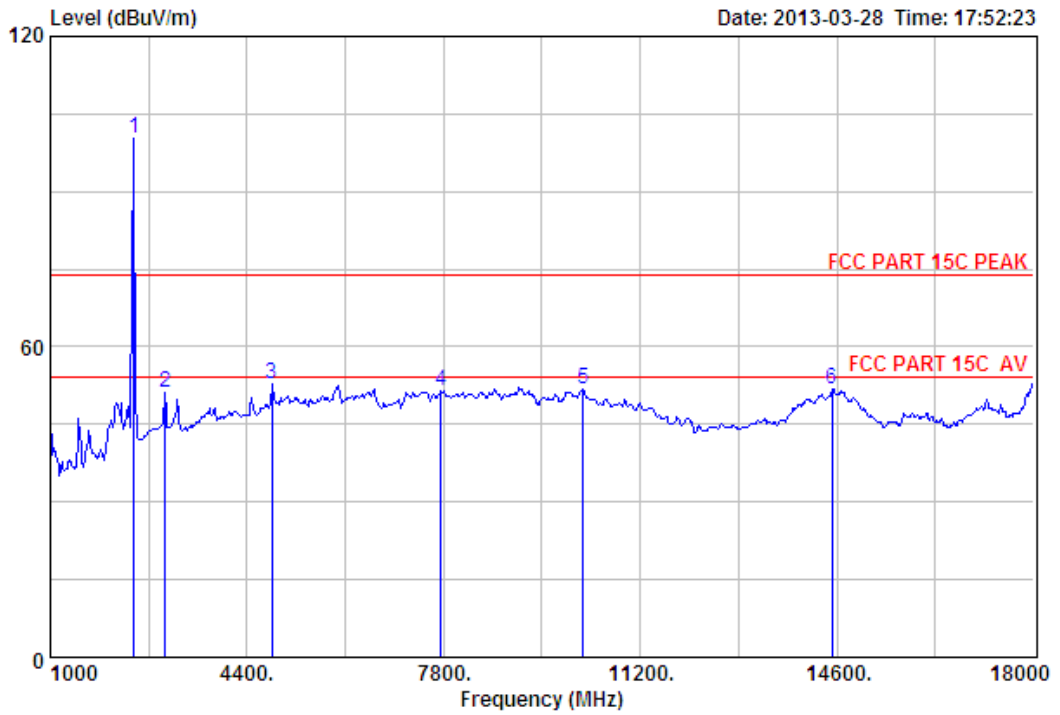
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 107
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : 8-DPSK TX 2441MHz
 Adapter 2

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission		Margin (dB)	Remark
					Level (dBuV/m)	Limits (dBuV/m)		
1	27.60	6.67	34.12	94.25	94.40	74.00	-20.40	Peak
2	31.28	11.84	31.83	41.15	52.44	74.00	21.56	Peak
3	32.70	12.11	32.28	40.36	52.89	74.00	21.11	Peak
4	37.32	11.45	32.43	37.21	53.55	74.00	20.45	Peak
5	38.48	11.47	32.17	35.23	53.01	74.00	20.99	Peak
6	41.88	10.93	33.08	32.58	52.31	74.00	21.69	Peak

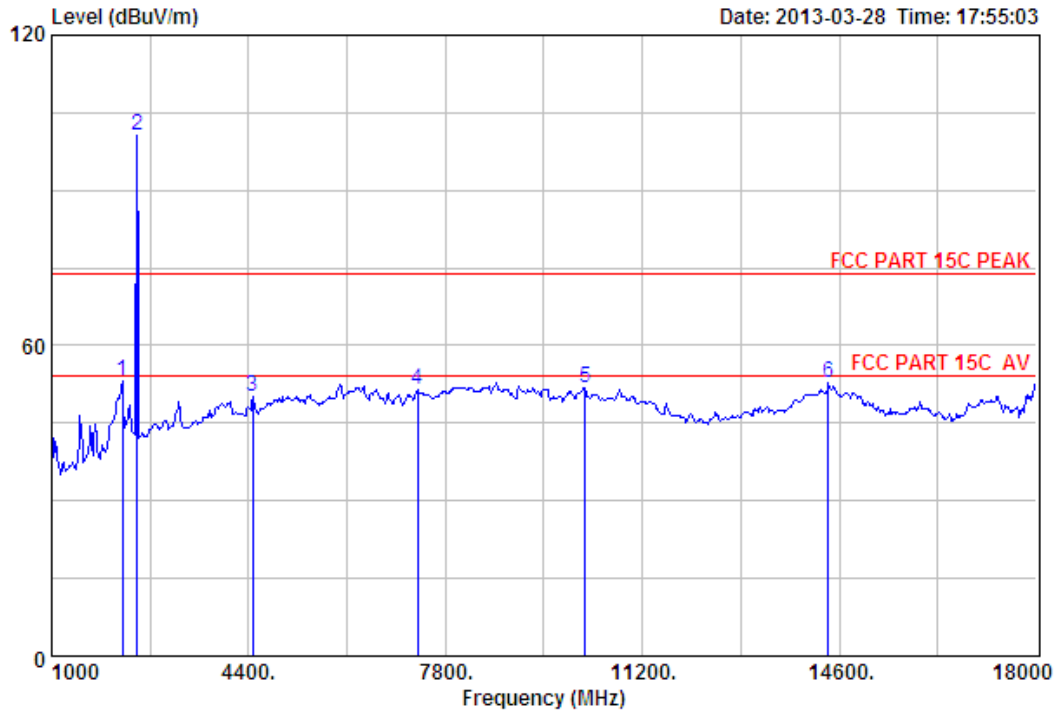
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 108
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : 8-DPSK TX 2441MHz
 Adapter 2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	27.60	6.67	34.12	100.19	100.34	74.00	-26.34	Peak
2	2989.00	28.19	8.97	33.58	47.51	51.09	74.00	22.91	Peak
3	4825.00	31.28	11.84	31.83	41.38	52.67	74.00	21.33	Peak
4	7749.00	36.55	11.51	31.49	35.00	51.57	74.00	22.43	Peak
5	10214.00	38.48	11.47	32.17	34.02	51.80	74.00	22.20	Peak
6	14515.00	41.89	10.93	33.14	32.06	51.74	74.00	22.26	Peak

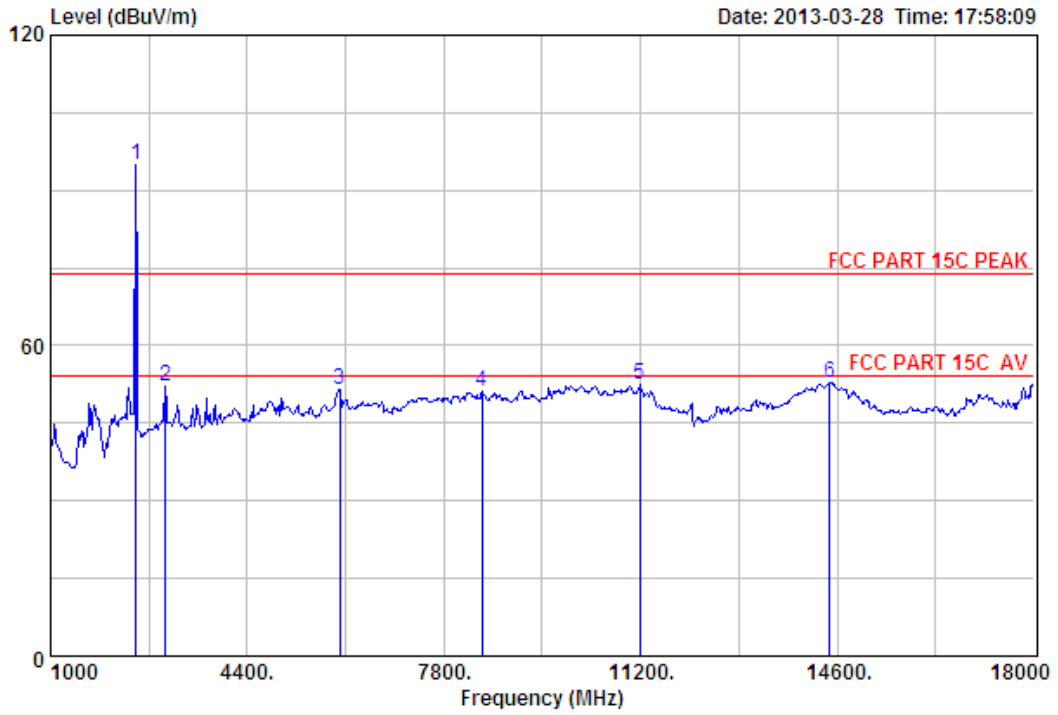
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 109
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : 8-DPSK TX 2480MHz
 Adapter 2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2224.00	27.81	6.43	34.30	53.08	53.02	74.00	20.98	Peak
2	2480.00	27.58	6.71	34.03	100.49	100.75	74.00	-26.75	Peak
3	4468.00	30.53	10.45	31.81	41.10	50.27	74.00	23.73	Peak
4	7324.00	36.55	11.57	31.99	35.44	51.57	74.00	22.43	Peak
5	10214.00	38.48	11.47	32.17	34.03	51.81	74.00	22.19	Peak
6	14413.00	41.80	10.92	32.78	32.76	52.70	74.00	21.30	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

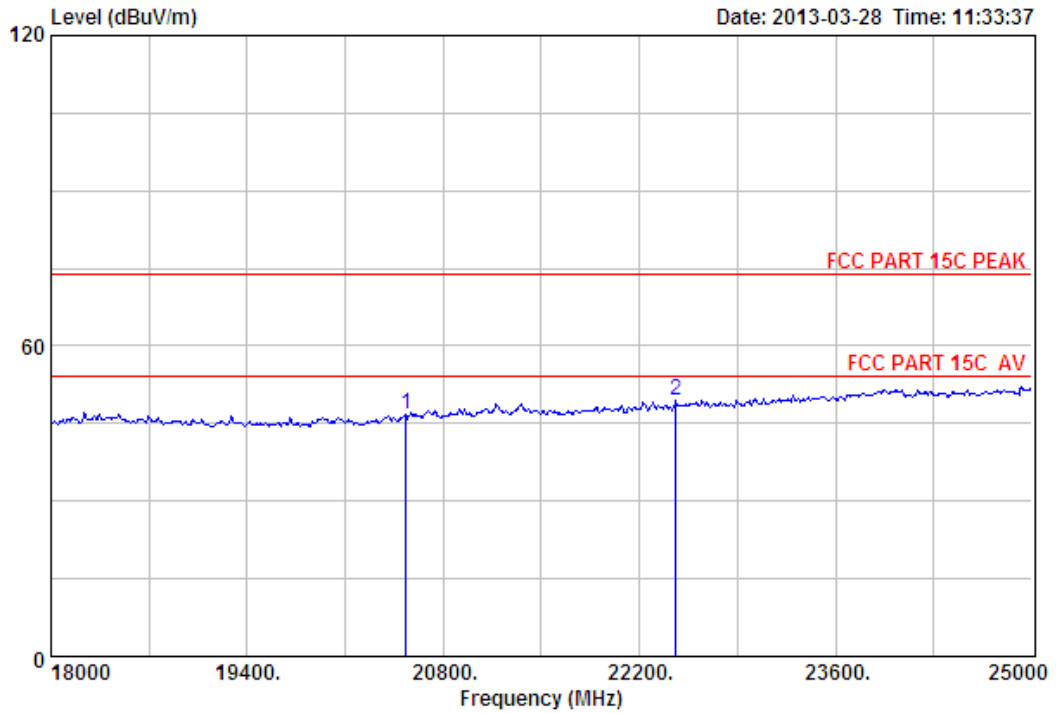


Site no. : 3m Chamber Data no. : 110
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : 8-DPSK TX 2480MHz
 Adapter 2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	27.58	6.71	34.03	94.77	95.03	74.00	-21.03	Peak
2	2989.00	28.19	8.97	33.58	48.65	52.23	74.00	21.77	Peak
3	5998.00	32.77	12.12	32.25	38.94	51.58	74.00	22.42	Peak
4	8463.00	36.87	11.45	31.86	34.69	51.15	74.00	22.85	Peak
5	11183.00	39.40	11.15	34.00	35.79	52.34	74.00	21.66	Peak
6	14464.00	41.85	10.93	32.96	32.92	52.74	74.00	21.26	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

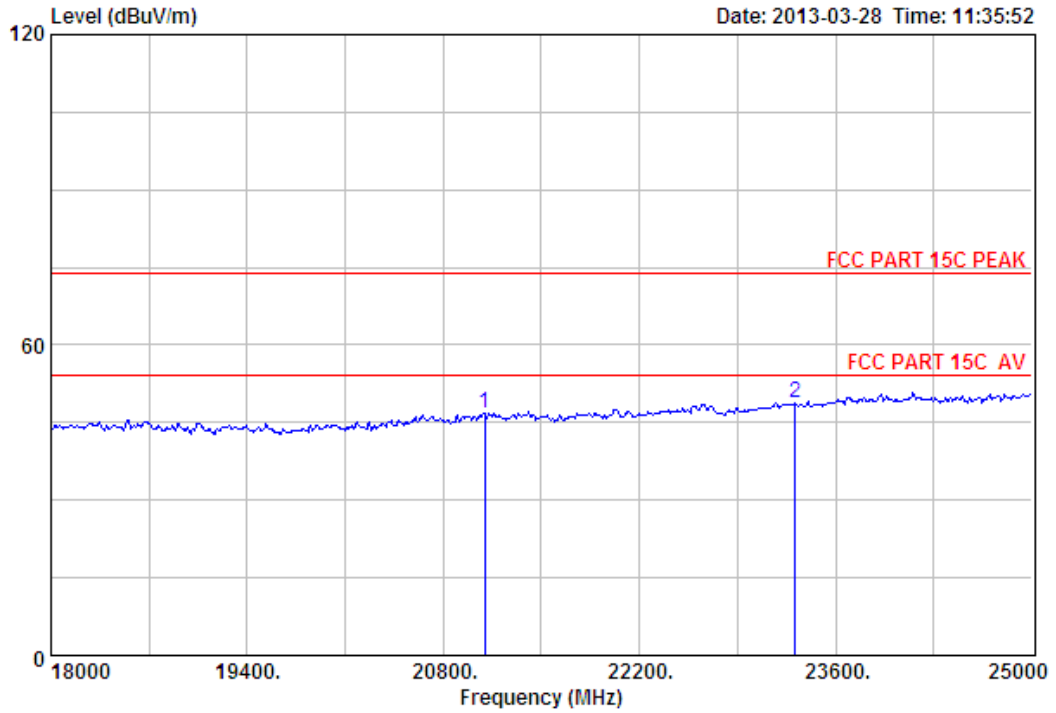
18000MHz – 25000MHz



Site no. : 3m Chamber Data no. : 11
 Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humid:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : GFSK TX 2402MHz
 Adapter 1

	Freq.	Ant.	Cable	Amp	Emission				Remark
	(MHz)	Factor	Loss	Factor	Reading	Level	Limits	Margin	
		(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	20534.00	46.01	19.92	36.23	17.08	46.78	74.00	27.22	Peak
2	22459.00	45.79	20.83	34.43	17.24	49.43	74.00	24.57	Peak

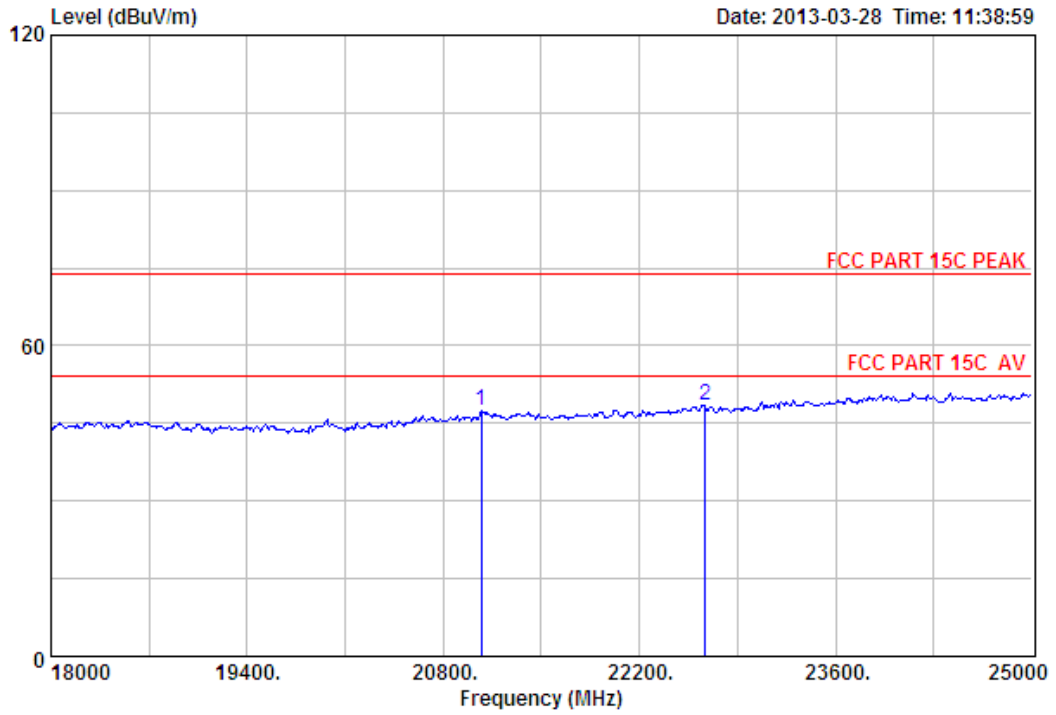
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 12
 Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : GFSK TX 2402MHz
 Adapter 1

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission		Margin (dB)	Remark
					Level (dBuV/m)	Limits (dBuV/m)		
1 21094.00	46.23	20.17	35.71	16.25	46.94	74.00	27.06	Peak
2 23313.00	45.67	21.43	33.51	15.17	48.76	74.00	25.24	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

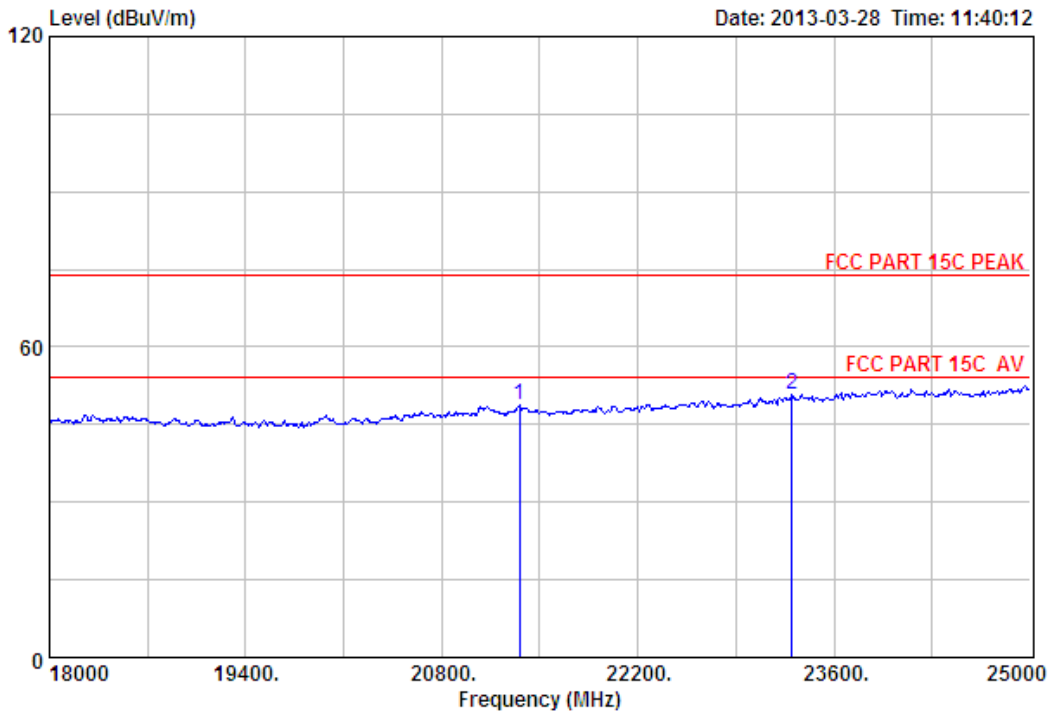


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Site no.       : 3m Chamber                Data no. : 13
Dis. / Ant.   : 3m ANT ABOVE 18G         Ant. pol.: VERTICAL
Limit        : FCC PART 15C PEAK
Env. / Ins.   : Temp:25.6';Humid:56%;Press:101.52kPa
Engineer     : Tony
EUT          : Portable PA with Bluetooth
Power        : DC 19V From Adapter Input AC 120V/60Hz
M/N          : Expedition Express
Test Mode    : GFSK TX 2441MHz
               Adapter 1
    
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	21073.00	46.25	20.16	35.73	16.73	47.41	74.00	26.59	Peak
2	22669.00	45.74	20.96	34.19	16.07	48.58	74.00	25.42	Peak

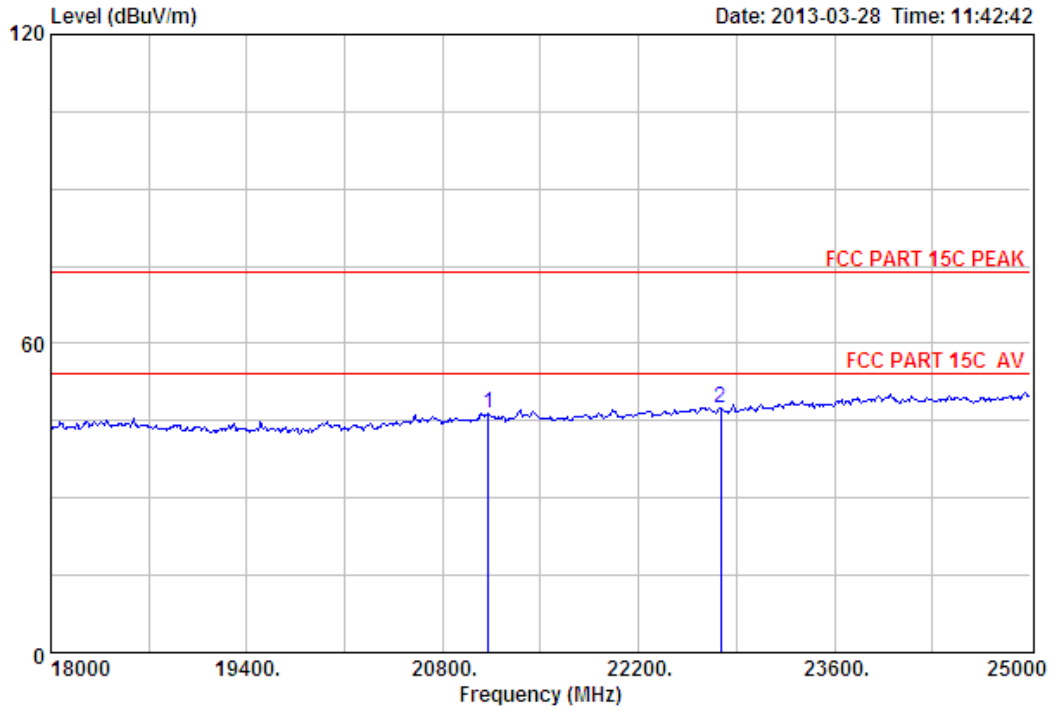
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 14
 Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : GFSK TX 2441MHz
 Adapter 1

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission			Remark
					Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1 21353.00	46.09	20.28	35.49	18.07	48.95	74.00	25.05	Peak
2 23299.00	45.66	21.42	33.53	17.24	50.79	74.00	23.21	Peak

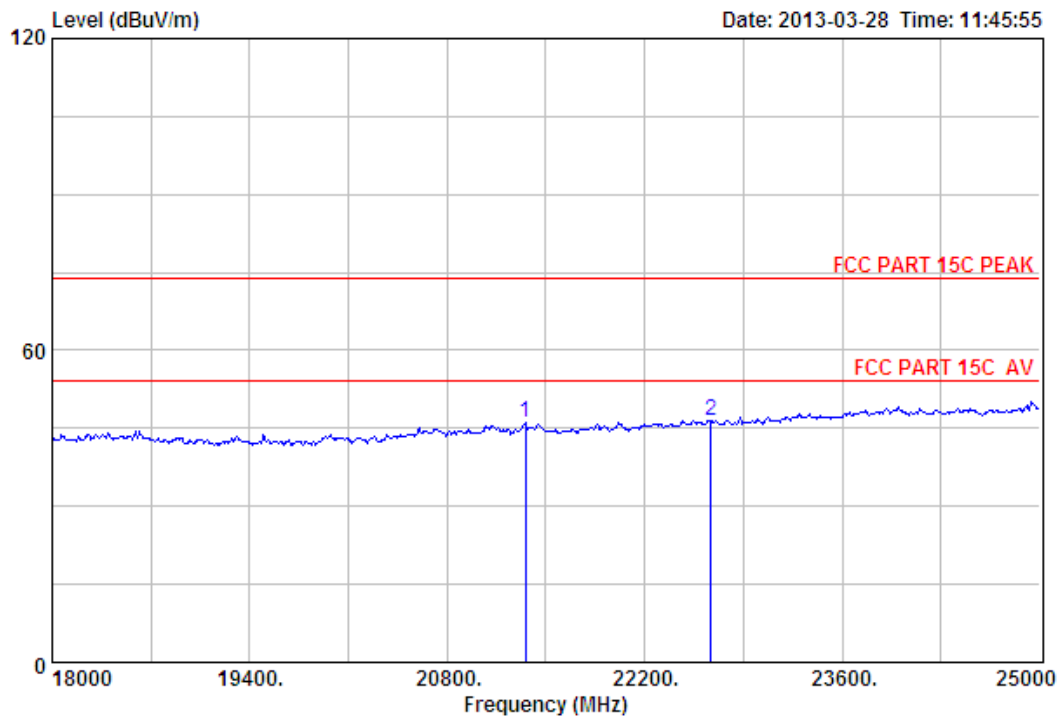
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 15
 Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6%;Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : GFSK TX 2480MHz
 Adapter 1

	Ant.	Cable	Amp	Emission					
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)		
1	21129.00	46.22	20.19	35.69	15.79	46.51	74.00	27.49	Peak
2	22788.00	45.68	21.02	34.06	14.94	47.58	74.00	26.42	Peak

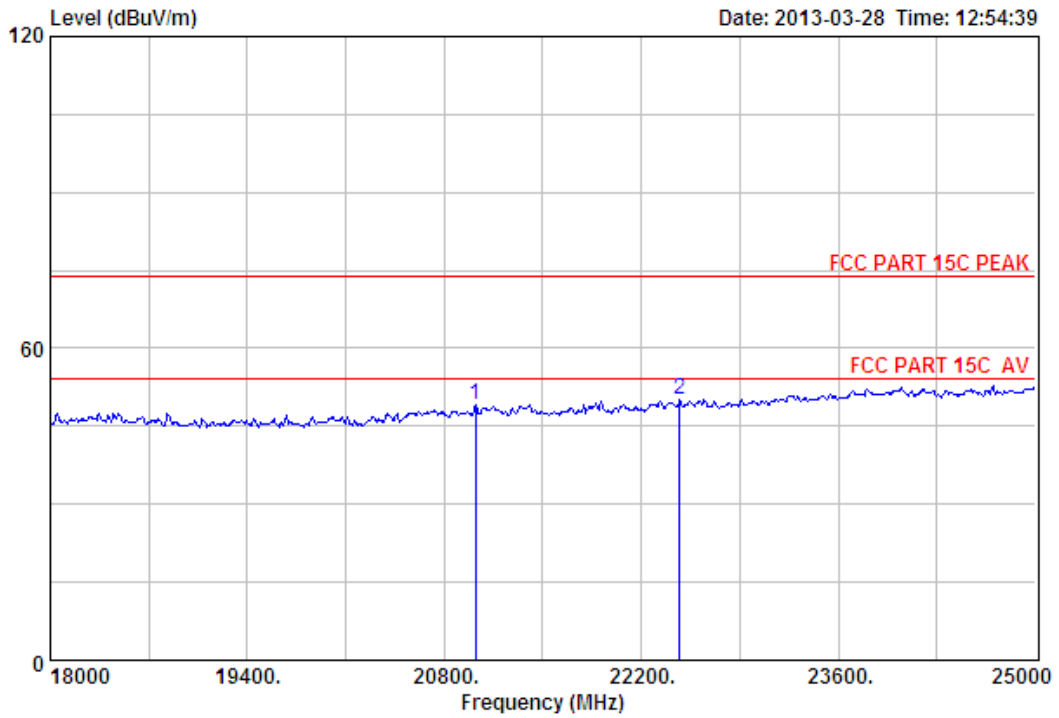
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 16
 Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : GFSK TX 2480MHz
 Adapter 1

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission			Remark
					Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1 21353.00	46.09	20.28	35.49	15.31	46.19	74.00	27.81	Peak
2 22669.00	45.74	20.96	34.19	14.07	46.58	74.00	27.42	Peak

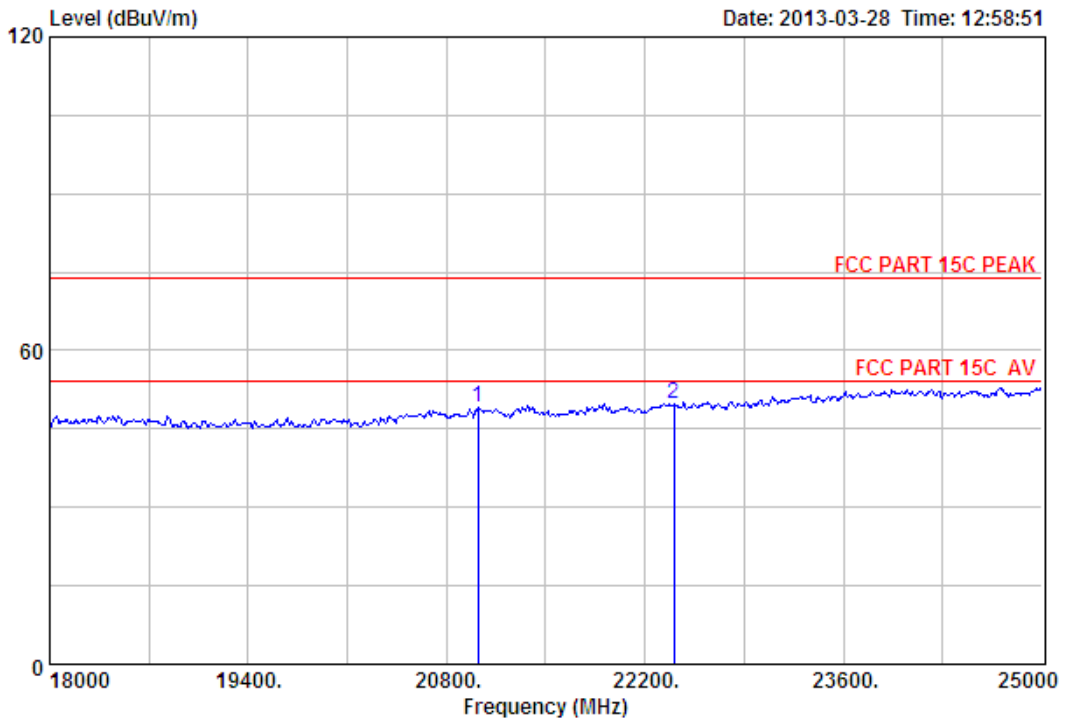
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 27
 Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : 8-DPSK TX 2402MHz
 Adapter 1

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission			Remark
					Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1 21024.00	46.29	20.14	35.78	18.39	49.04	74.00	24.96	Peak
2 22473.00	45.79	20.84	34.40	17.89	50.12	74.00	23.88	Peak

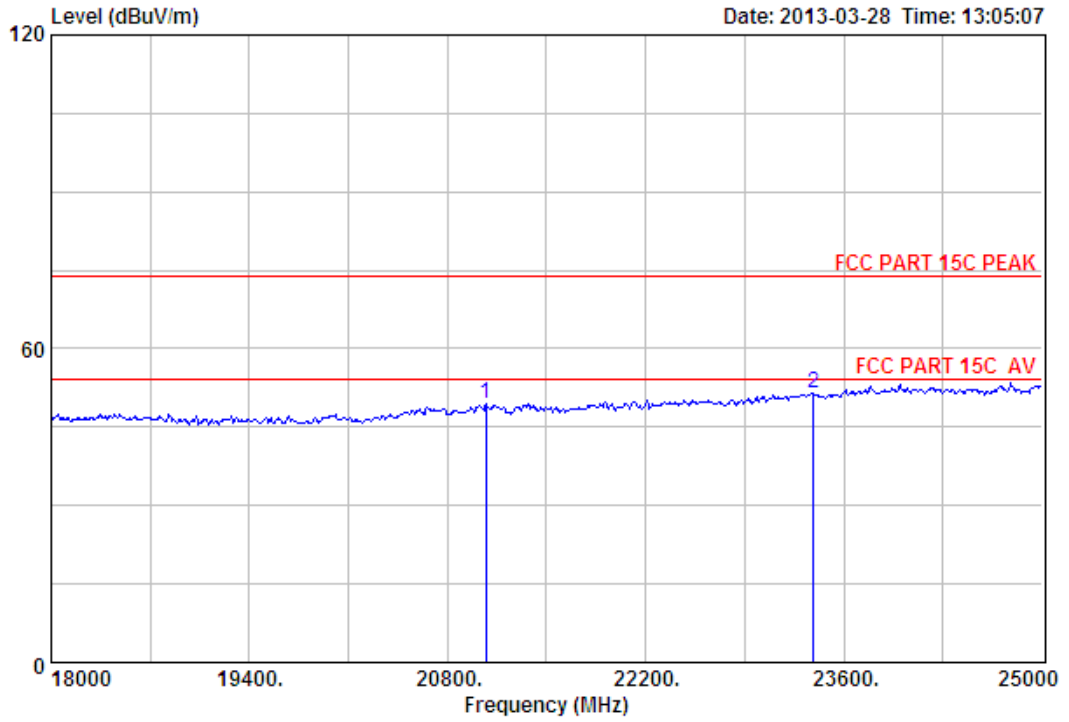
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 28
 Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : 8-DPSK TX 2402MHz
 Adapter 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	21024.00	46.29	20.14	35.78	18.39	49.04	74.00	24.96	Peak
2	22403.00	45.78	20.80	34.48	17.63	49.73	74.00	24.27	Peak

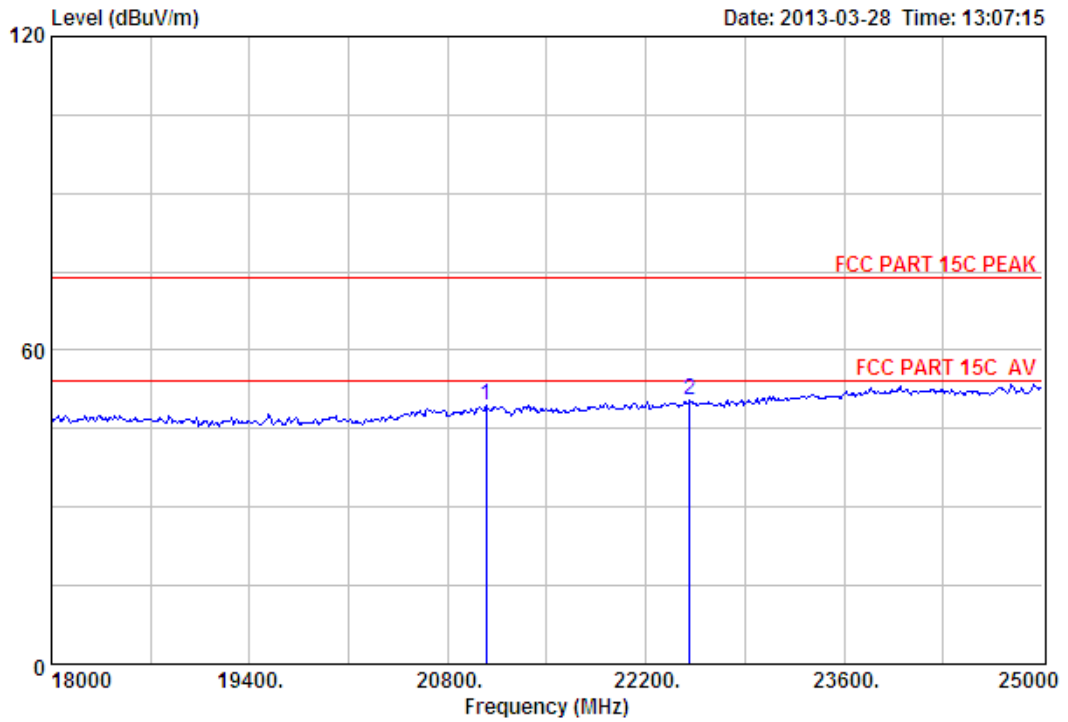
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 29
 Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : 8-DPSK TX 2441MHz
 Adapter 1

	Freq.	Ant.	Cable	Amp	Reading	Emission	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	21073.00	46.25	20.16	35.73	18.78	49.46	74.00	24.54	Peak
2	23383.00	45.68	21.49	33.46	17.71	51.42	74.00	22.58	Peak

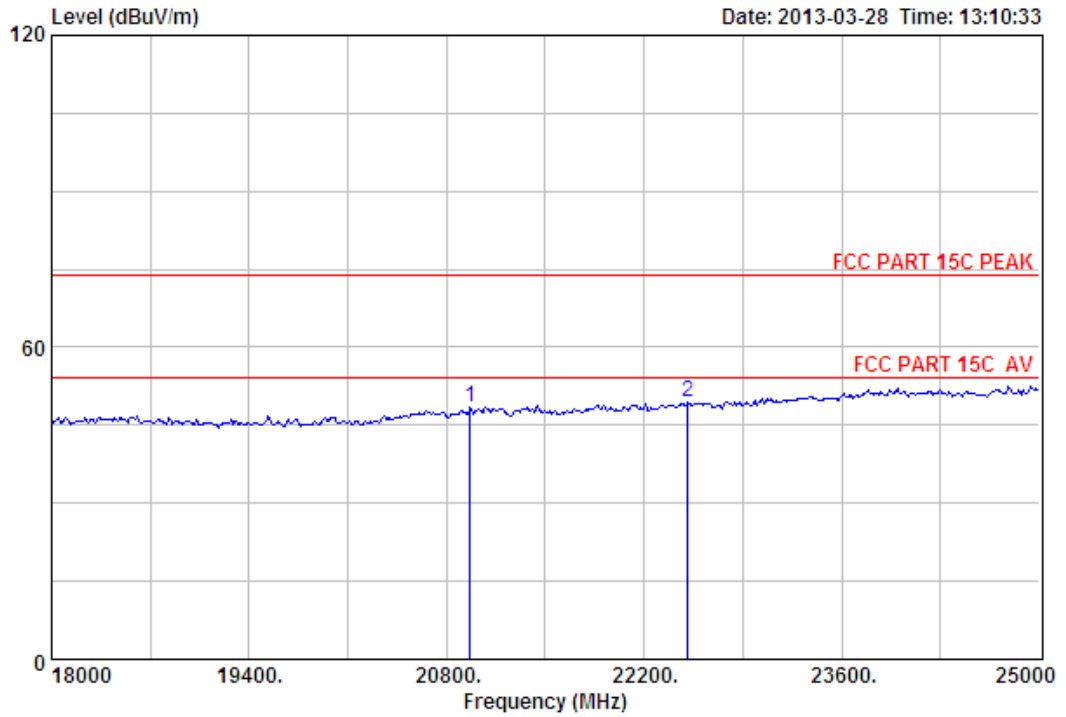
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 30
 Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : 8-DPSK TX 2441MHz
 Adapter 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	21073.00	46.25	20.16	35.73	18.78	49.46	74.00	24.54	Peak
2	22508.00	45.80	20.86	34.38	18.15	50.43	74.00	23.57	Peak

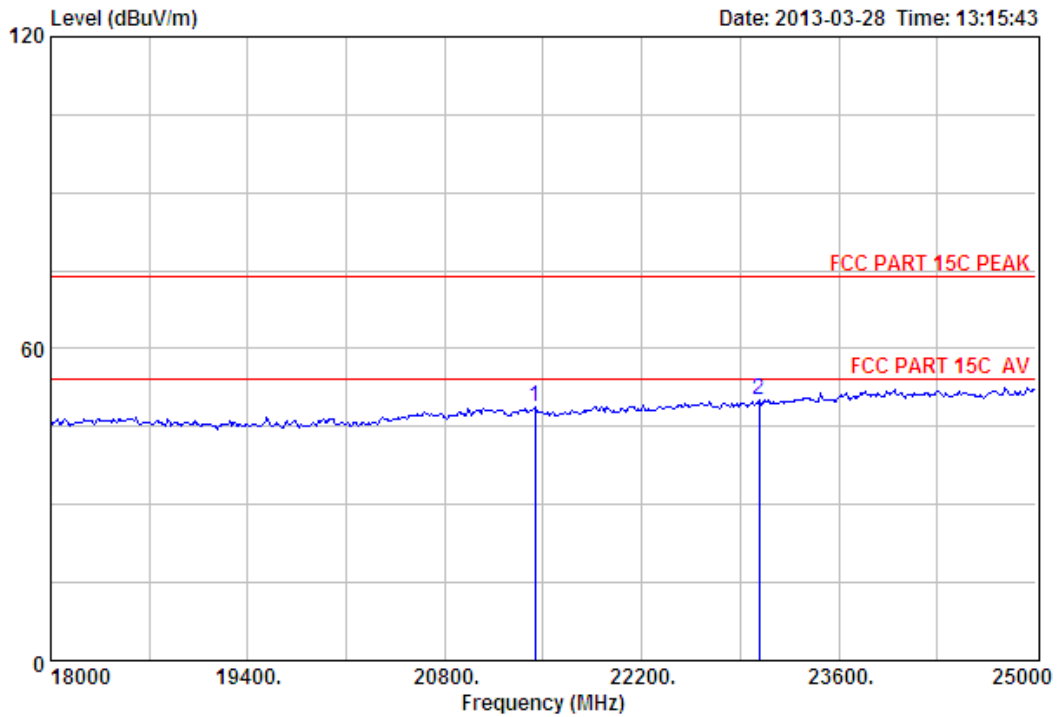
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 31
 Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : 8-DPSK TX 2480MHz
 Adapter 1

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission			Margin (dB)	Remark
					Level (dBuV/m)	Limits (dBuV/m)			
1 20968.00	46.29	20.12	35.82	17.95	48.54	74.00	25.46	Peak	
2 22508.00	45.80	20.86	34.38	17.15	49.43	74.00	24.57	Peak	

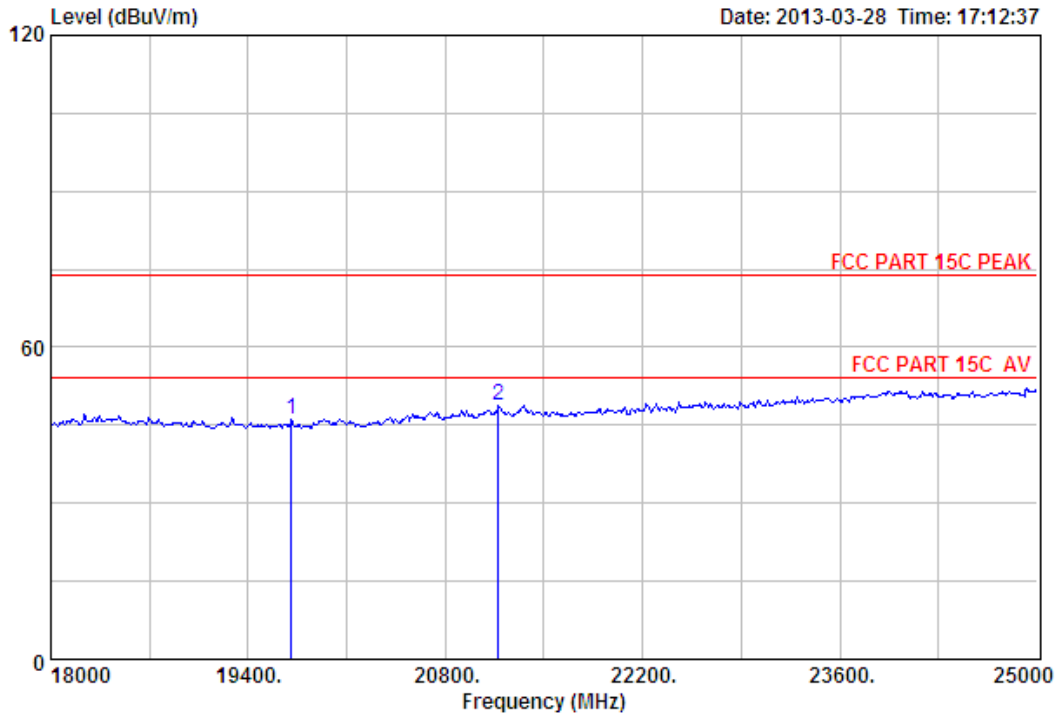
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 32
 Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : 8-DPSK TX 2480MHz
 Adapter 1

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission			Remark
					Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1 21444.00	46.03	20.32	35.40	17.92	48.87	74.00	25.13	Peak
2 23033.00	45.61	21.17	33.82	17.17	50.13	74.00	23.87	Peak

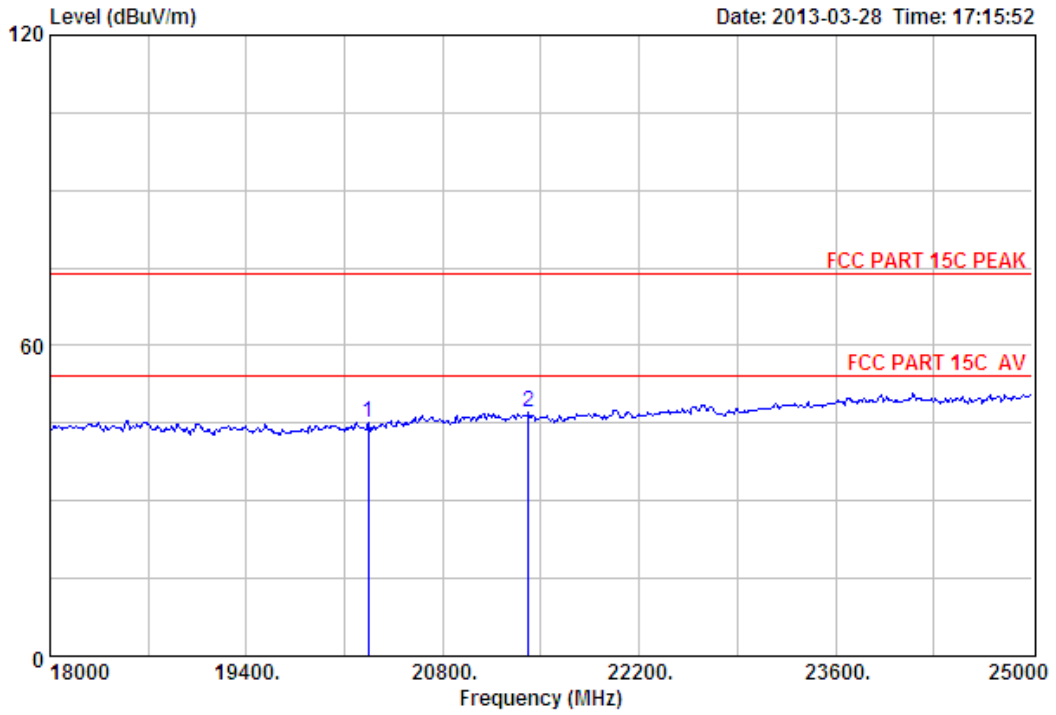
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 97
 Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : GFSK TX 2402MHz
 Adapter 2

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission		Margin (dB)	Remark
					Level (dBuV/m)	Limits (dBuV/m)		
1 19708.00	45.99	19.35	36.44	17.19	46.09	74.00	27.91	Peak
2 21178.00	46.20	20.21	35.64	17.98	48.75	74.00	25.25	Peak

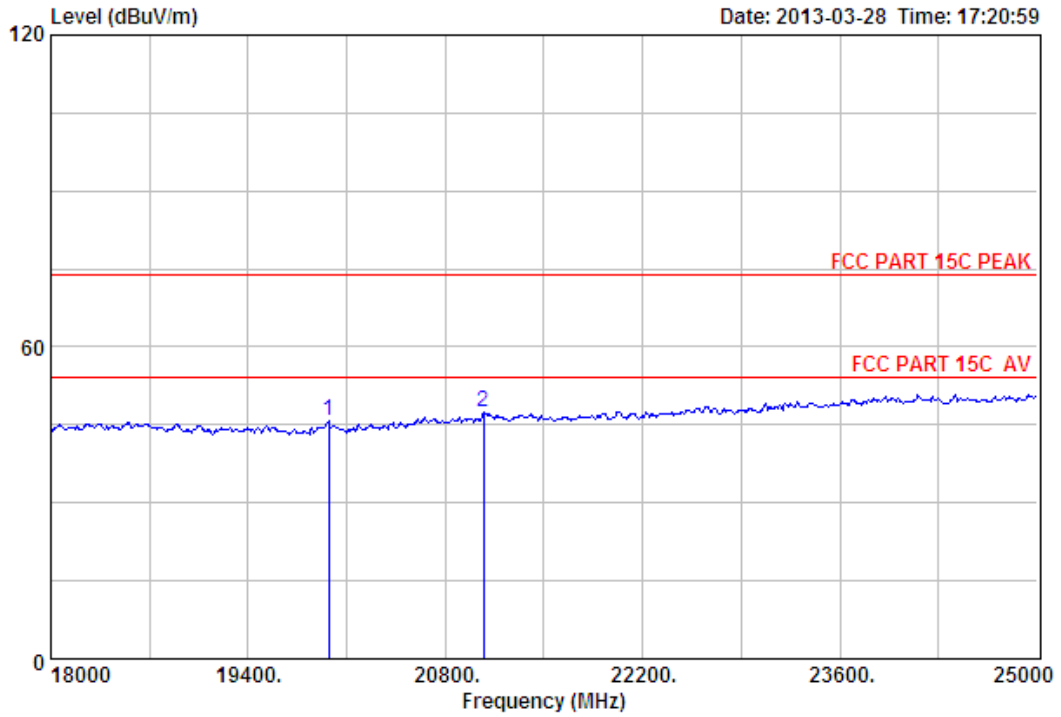
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 98
 Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : GFSK TX 2402MHz
 Adapter 2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	20268.00	46.05	19.80	36.45	15.68	45.08	74.00	28.92	Peak
2	21409.00	46.05	20.31	35.44	16.09	47.01	74.00	26.99	Peak

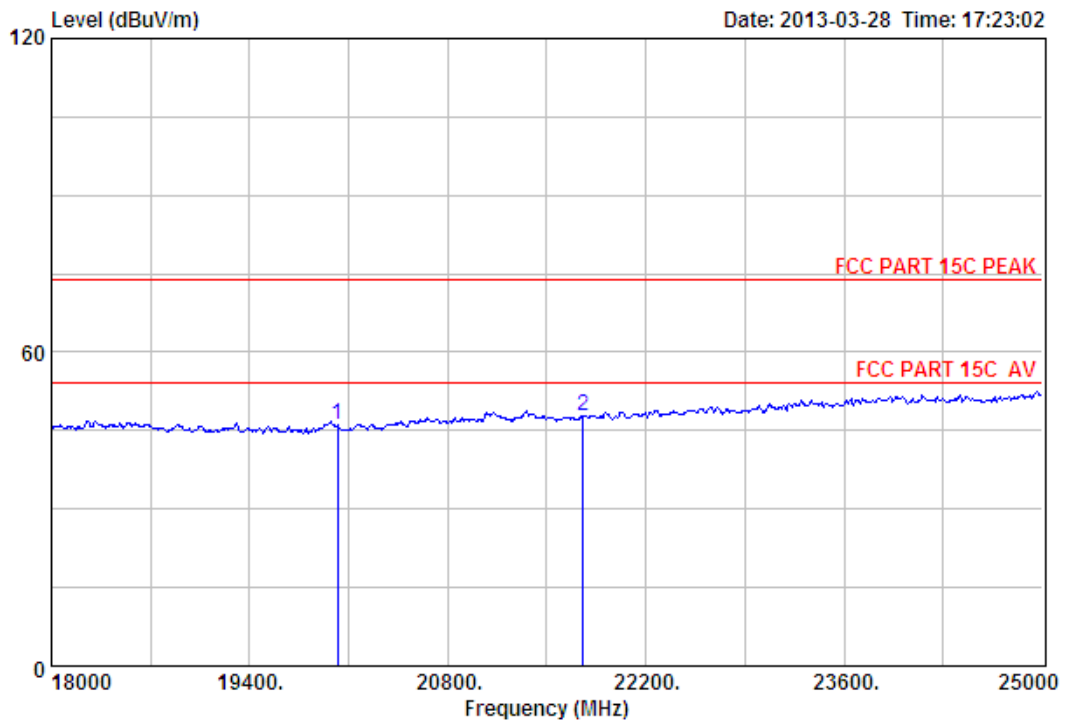
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 99
 Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : GFSK TX 2441MHz
 Adapter 2

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission		Margin (dB)	Remark
					Level (dBuV/m)	Limits (dBuV/m)		
1 19974.00	46.09	19.65	36.68	16.66	45.72	74.00	28.28	Peak
2 21073.00	46.25	20.16	35.73	16.73	47.41	74.00	26.59	Peak

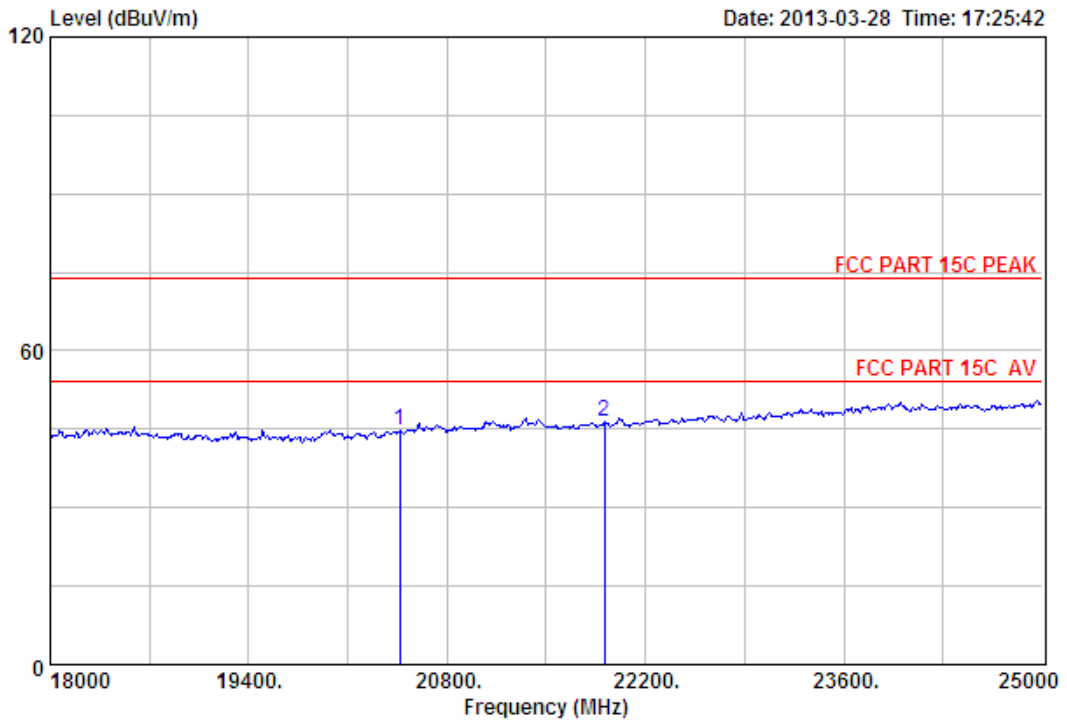
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 100
 Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : GFSK TX 2441MHz
 Adapter 2

	Ant.	Cable	Amp	Emission					
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)		
1	20023.00	46.10	19.69	36.68	17.02	46.13	74.00	27.87	Peak
2	21759.00	45.84	20.46	35.12	16.77	47.95	74.00	26.05	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

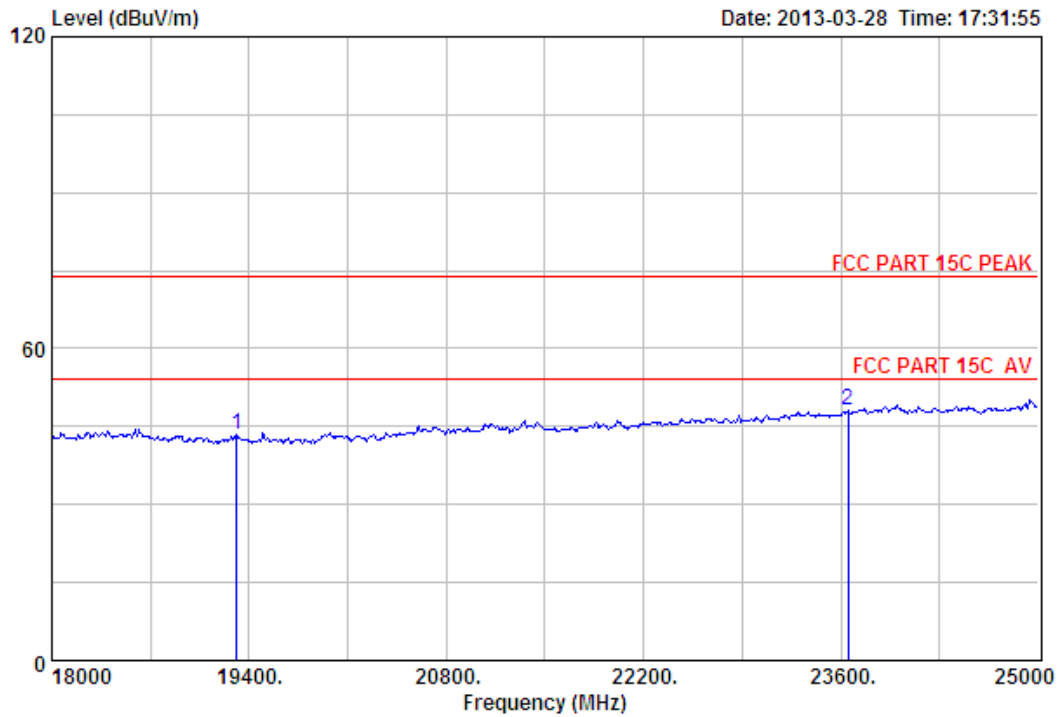


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Site no.      : 3m Chamber                      Data no. : 101
Dis. / Ant.  : 3m ANT ABVOE 18G                Ant. pol. : HORIZONTAL
Limit        : FCC PART 15C PEAK
Env. / Ins.  : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer     : Tony
EUT          : Portable PA with Bluetooth
Power        : DC 19V From Adapter Input AC 120V/60Hz
M/N          : Expedition Express
Test Mode    : GFSK TX 2480MHz
                Adapter 2
    
```

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission			Remark	
					Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)		
1	20464.00	46.01	19.89	36.27	15.14	44.77	74.00	29.23	Peak
2	21913.00	45.75	20.53	34.97	15.00	46.31	74.00	27.69	Peak

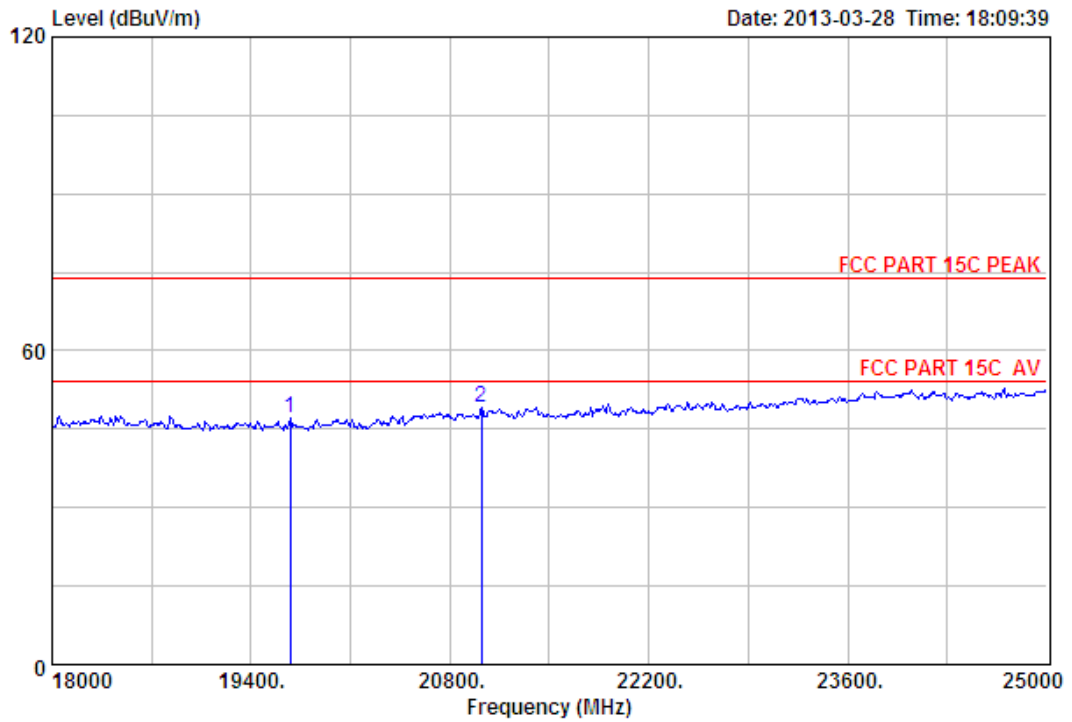
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 102
 Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : GFSK TX 2480MHz
 Adapter 2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission			Remark
						Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	19309.00	45.73	18.89	36.10	14.83	43.35	74.00	30.65	Peak
2	23649.00	45.67	21.73	33.17	13.88	48.11	74.00	25.89	Peak

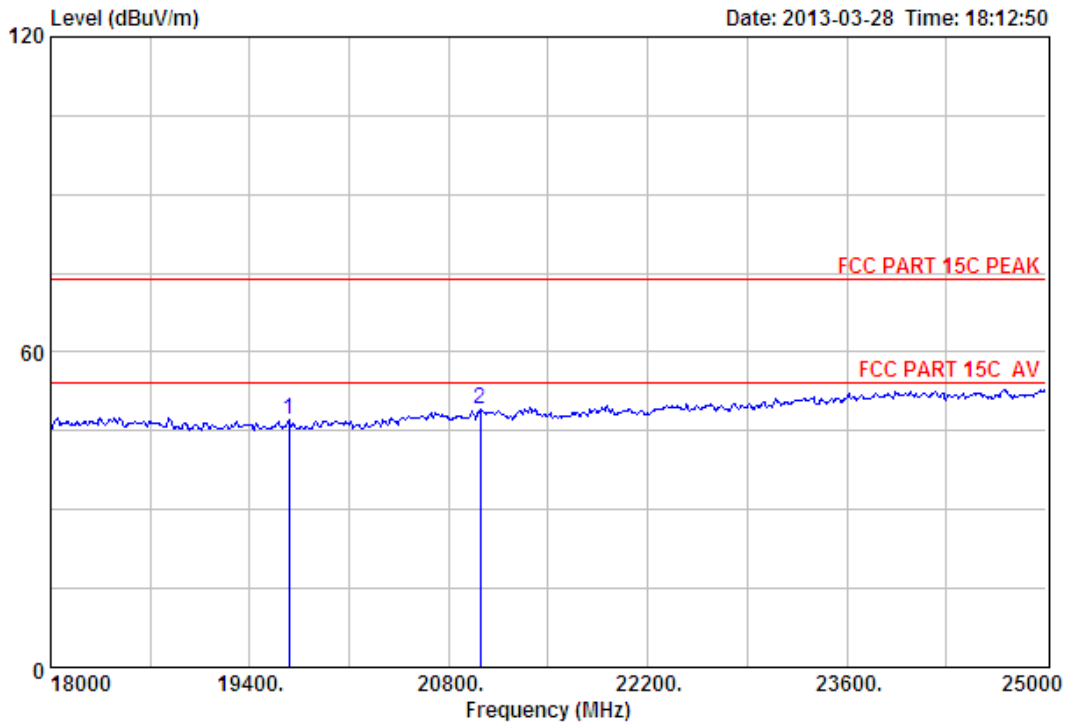
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 113
 Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : 8-DPSK TX 2402MHz
 Adapter 2

	Freq.	Ant. Factor	Cable Loss	Amp Factor	Reading	Emission Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	19673.00	45.97	19.31	36.42	18.31	47.17	74.00	26.83	Peak
2	21024.00	46.29	20.14	35.78	18.39	49.04	74.00	24.96	Peak

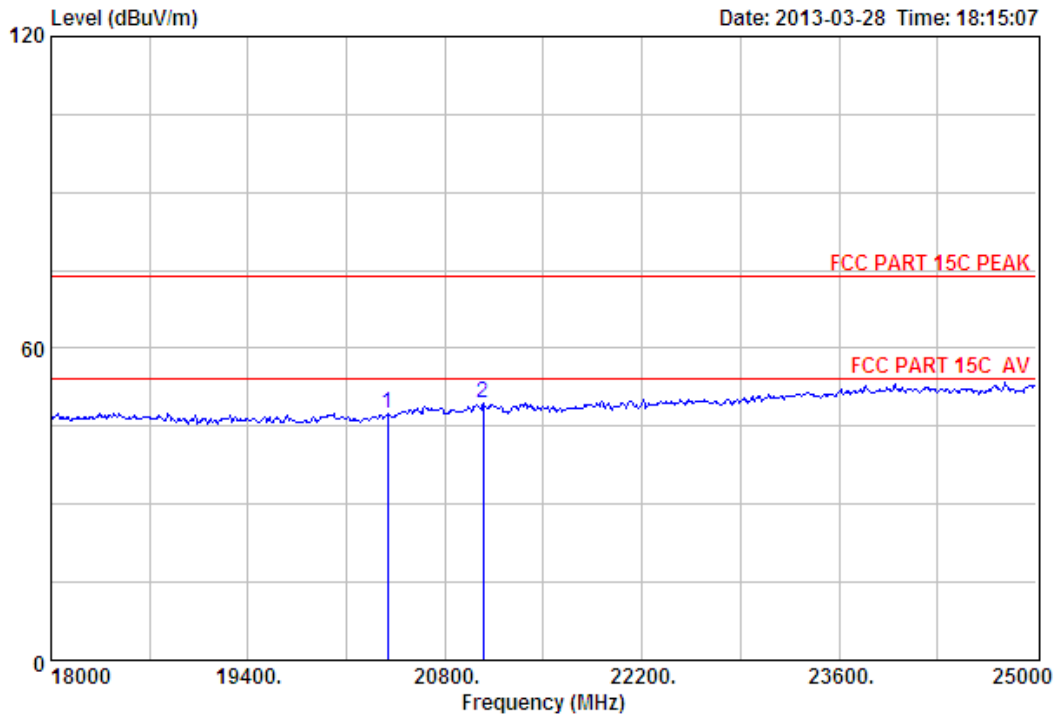
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 114
 Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : 8-DPSK TX 2402MHz
 Adapter 2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	19673.00	45.97	19.31	36.42	18.31	47.17	74.00	26.83	Peak
2	21024.00	46.29	20.14	35.78	18.39	49.04	74.00	24.96	Peak

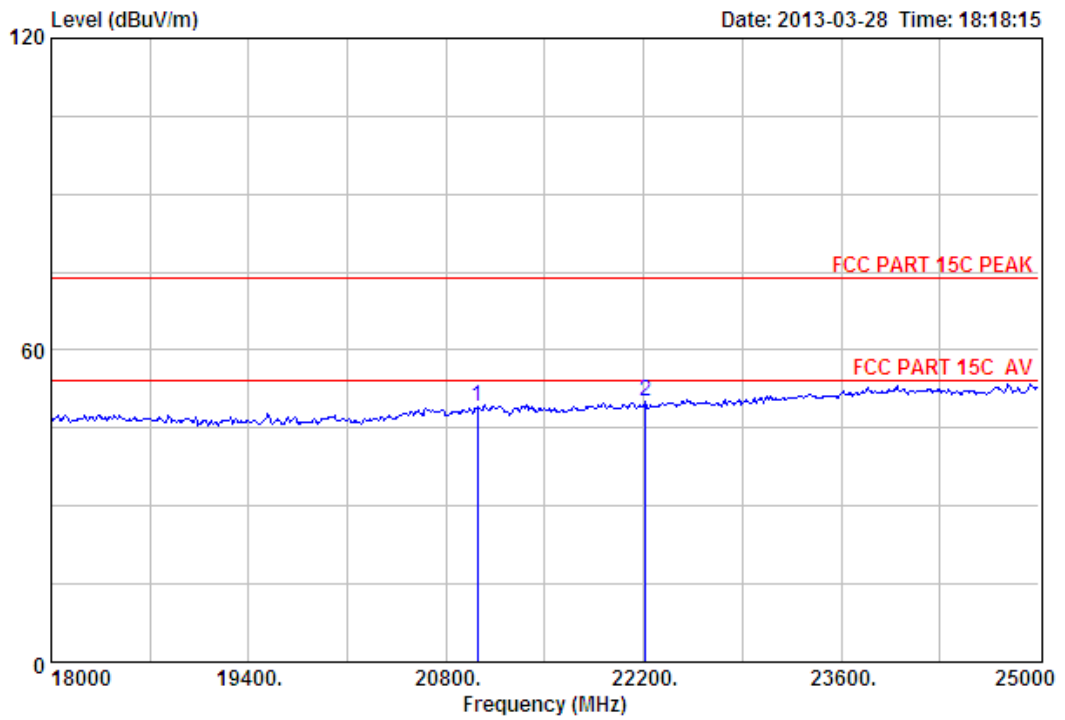
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 115
 Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : 8-DPSK TX 2441MHz
 Adapter 2

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission			Remark
						Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	20394.00	46.02	19.86	36.34	17.90	47.44	74.00	26.56	Peak
2	21073.00	46.25	20.16	35.73	18.78	49.46	74.00	24.54	Peak

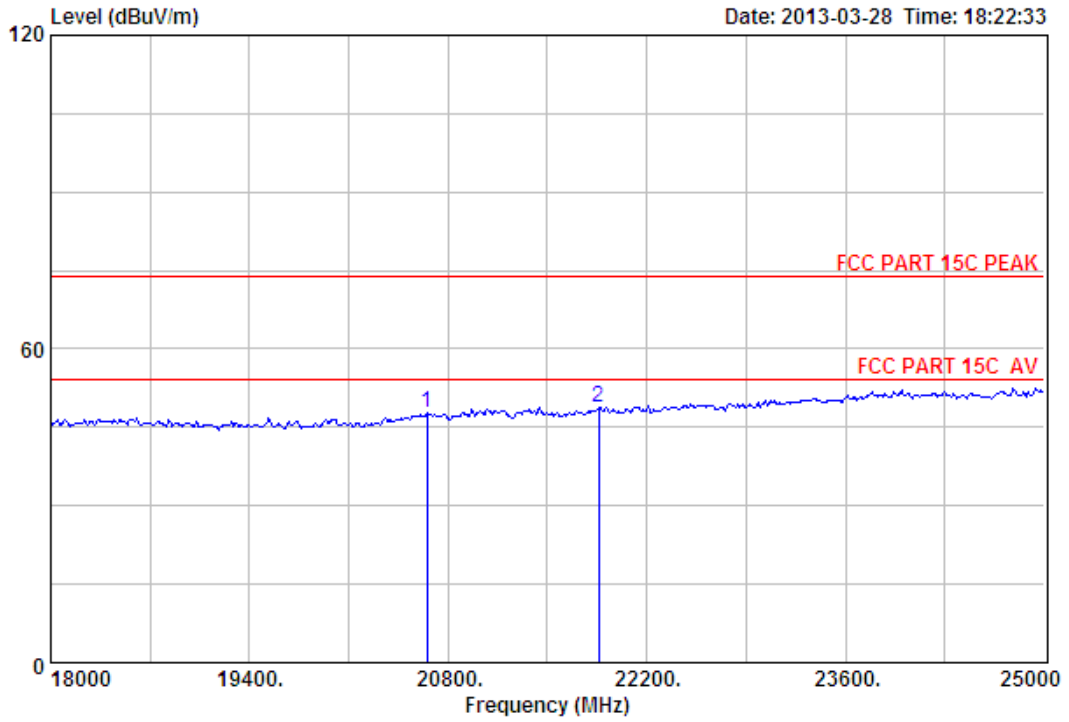
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 116
 Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : 8-DPSK TX 2441MHz
 Adapter 2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	21024.00	46.29	20.14	35.78	18.39	49.04	74.00	24.96	Peak
2	22214.00	45.74	20.69	34.66	18.42	50.19	74.00	23.81	Peak

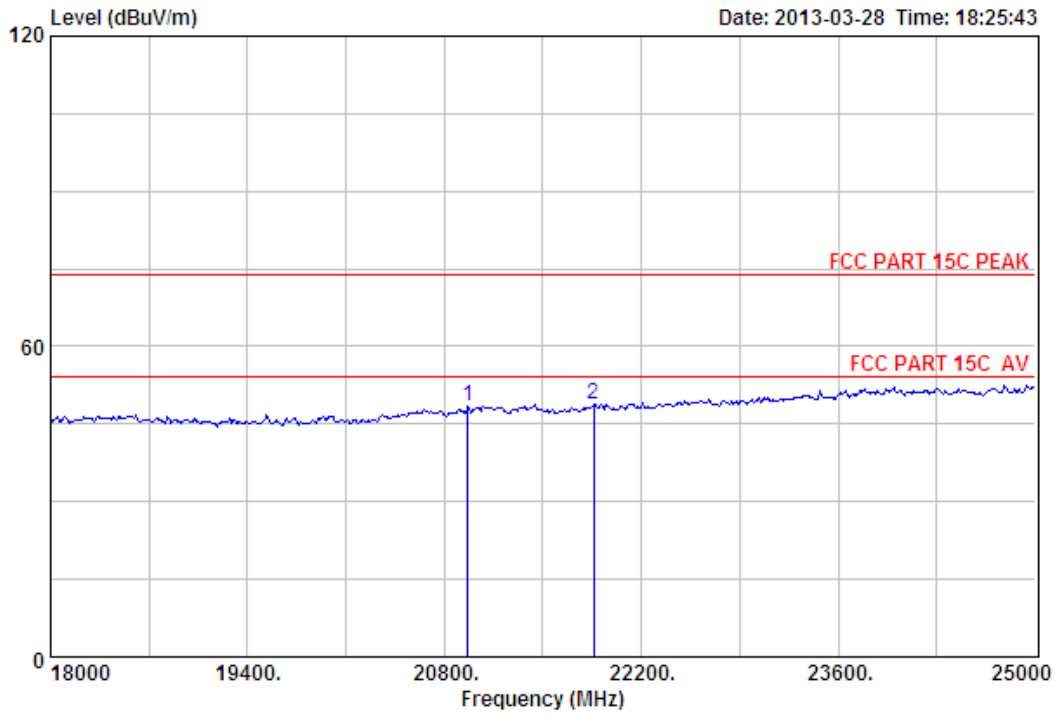
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 117
 Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : 8-DPSK TX 2480MHz
 Adapter 2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	20653.00	46.10	19.98	36.12	18.00	47.96	74.00	26.04	Peak
2	21864.00	45.78	20.50	35.01	17.66	48.93	74.00	25.07	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 118
 Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : 8-DPSK TX 2480MHz
 Adapter 2

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission			Remark
					Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1 20968.00	46.29	20.12	35.82	17.95	48.54	74.00	25.46	Peak
2 21864.00	45.78	20.50	35.01	17.66	48.93	74.00	25.07	Peak

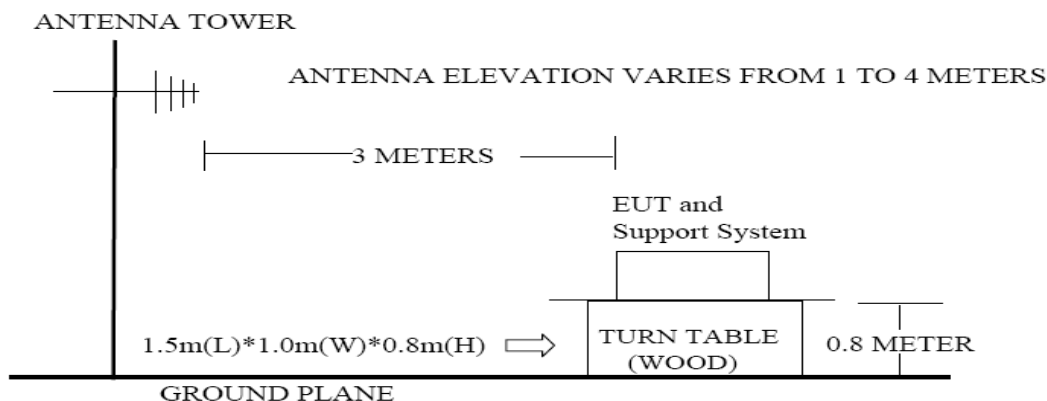
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

9. BAND EDGE COMPLIANCE

9.1. Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

9.2. Block Diagram of Test setup



9.3. Test Procedure

EUT was placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of emissions

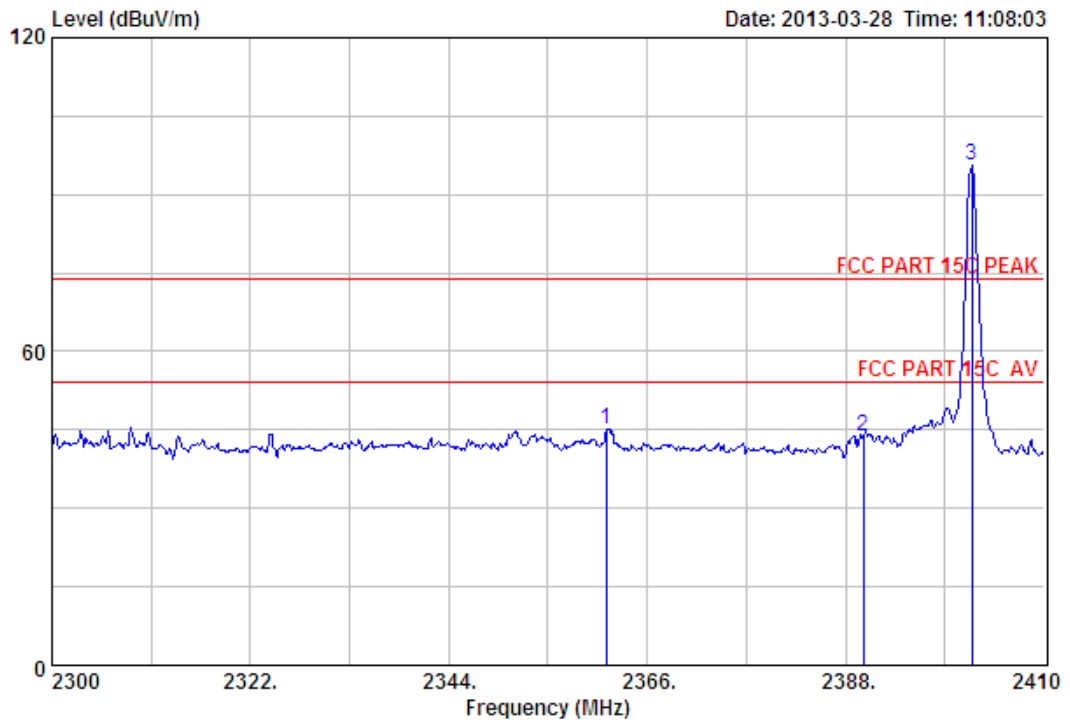
- (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
- (b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

9.4. Test Result

EUT: Portable PA with Bluetooth
M/N: Expedition Express
Power: DC 19V From Adapter Input AC 120V/60Hz
Test date: 2013-03-28 Test site: 3m Chamber Tested by: Tony Tang
Test mode: Tx Mode
Pass

- Note: 1、 For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
- 2、 The frequency 2402MHz 、2441MHz and 2480MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.

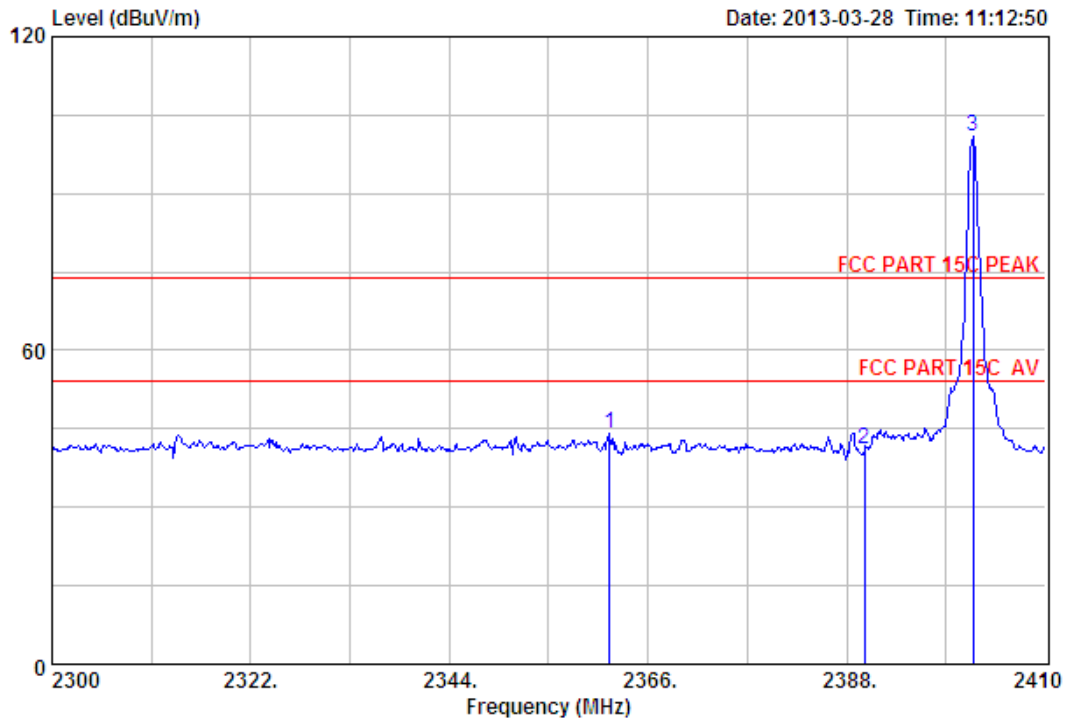
9.5. Test Data



Site no. : 3m Chamber Data no. : 3
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : GFSK TX 2402MHz
 Adapter 1

	Ant.	Cable	Amp	Emission		Limits	Margin	Remark	
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	(dBuV/m)	(dB)		
1	2361.49	27.67	6.58	34.20	45.20	45.25	74.00	28.75	Peak
2	2390.00	27.64	6.62	34.19	43.74	43.81	74.00	30.19	Peak
3	2401.97	27.61	6.62	34.18	95.57	95.62	74.00	-21.62	Peak

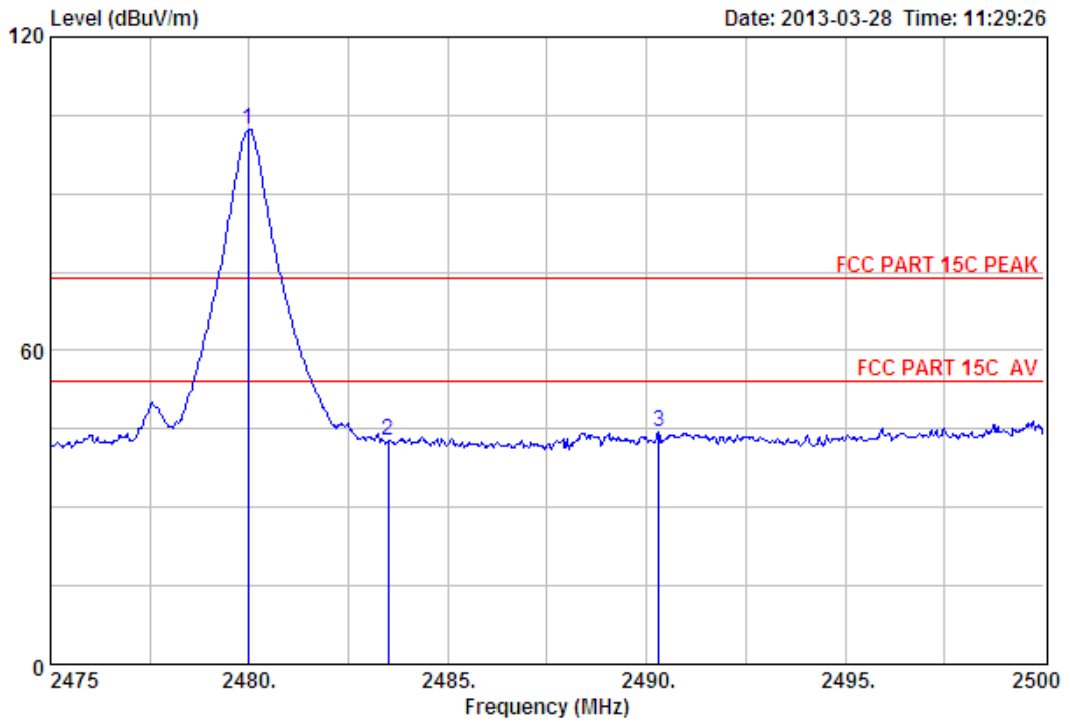
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : GFSK TX 2402MHz
 Adapter 1

	Freq.	Ant.	Cable	Amp	Emission		Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	Reading	Level	(dBuV/m)	(dB)	
					(dBuV)	(dBuV/m)			
1	2361.71	27.67	6.58	34.20	44.14	44.19	74.00	29.81	Peak
2	2390.00	27.64	6.62	34.19	40.88	40.95	74.00	33.05	Peak
3	2401.97	27.61	6.62	34.18	100.78	100.83	74.00	-26.83	Peak

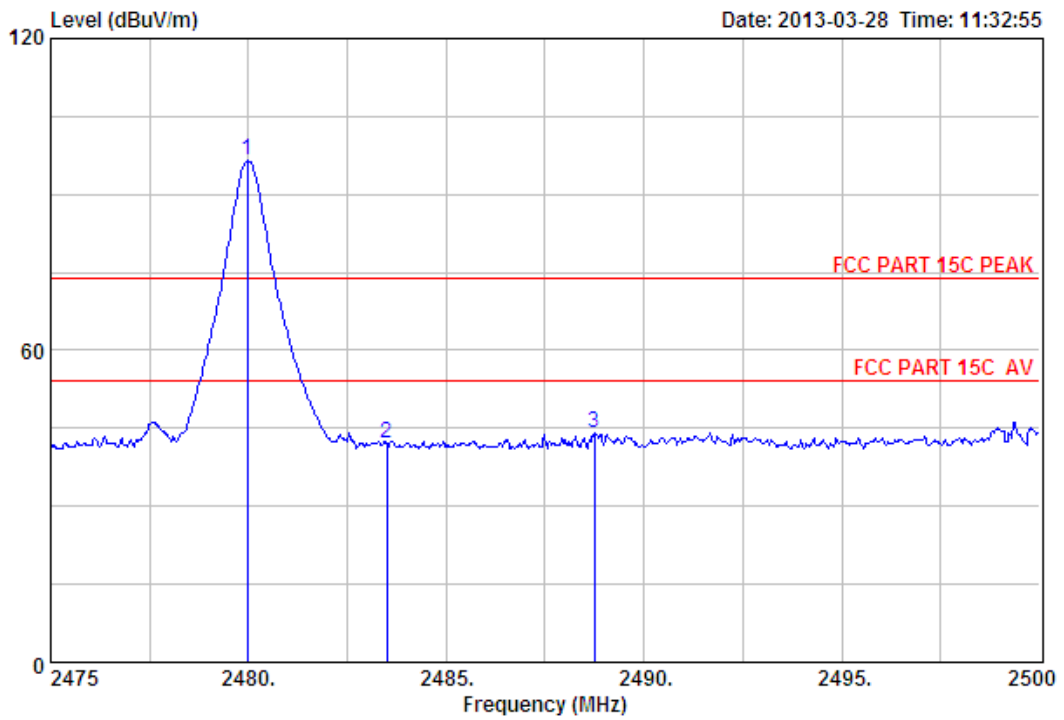
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 9
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : GFSK TX 2480MHz
 Adapter 1

	Freq.	Ant.	Cable	Amp	Emission		Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	Reading	Level	(dBUV/m)	(dB)	
					(dBUV)	(dBUV/m)			
1	2479.98	27.58	6.71	34.03	102.00	102.26	74.00	-28.26	Peak
2	2483.50	27.58	6.71	34.03	42.36	42.62	74.00	31.38	Peak
3	2490.30	27.58	6.73	34.03	44.07	44.35	74.00	29.65	Peak

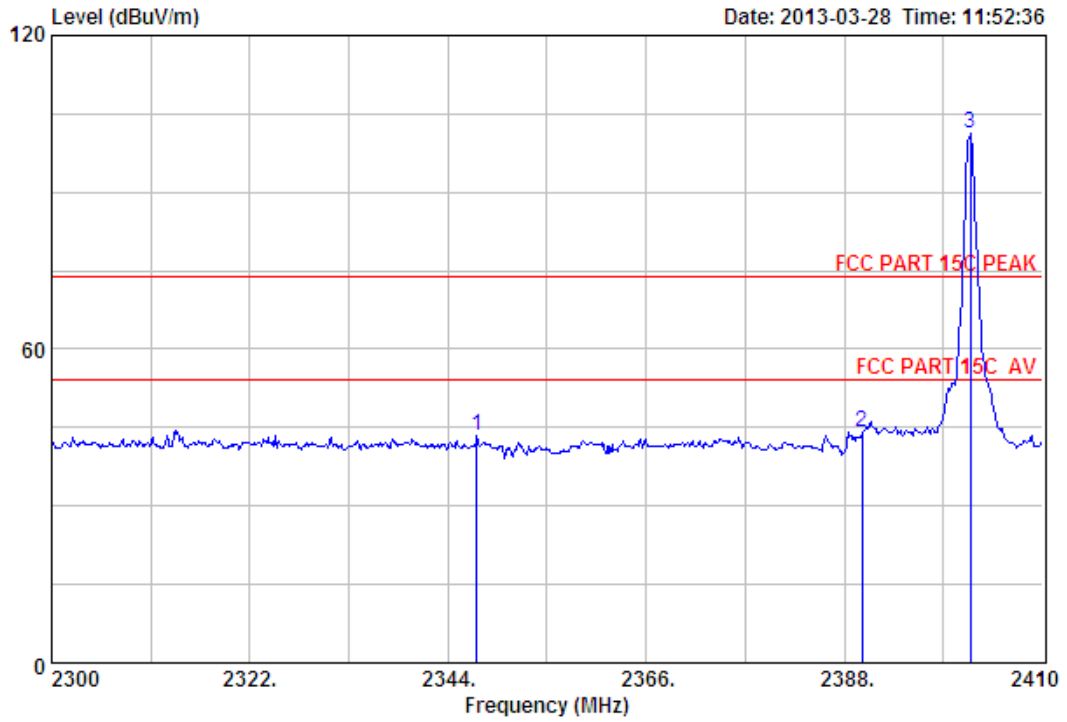
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 10
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : GFSK TX 2480MHz
 Adapter 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.98	27.58	6.71	34.03	96.17	96.43	74.00	-22.43	Peak
2	2483.50	27.58	6.71	34.03	41.79	42.05	74.00	31.95	Peak
3	2488.75	27.58	6.73	34.03	43.96	44.24	74.00	29.76	Peak

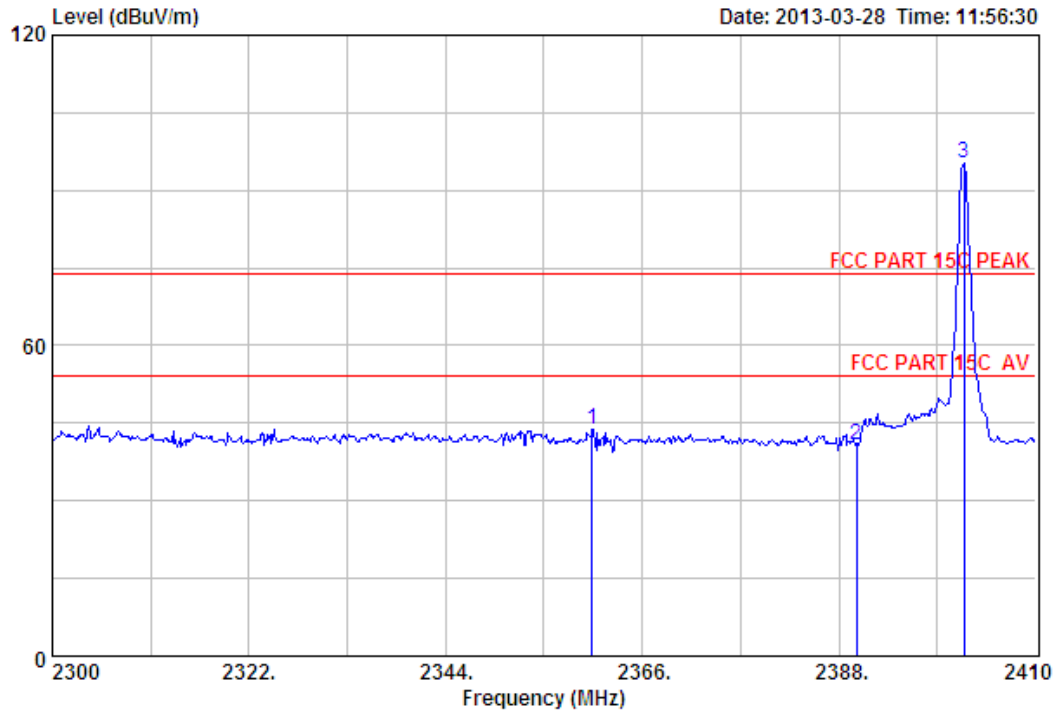
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 19
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : 8-DPSK TX 2402MHz
 Adapter 1

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission		Margin (dB)	Remark
					Level (dBuV/m)	Limits (dBuV/m)		
1	27.70	6.56	34.22	43.53	43.57	74.00	30.43	Peak
2	27.64	6.62	34.19	44.19	44.26	74.00	29.74	Peak
3	27.61	6.62	34.18	101.20	101.25	74.00	-27.25	Peak

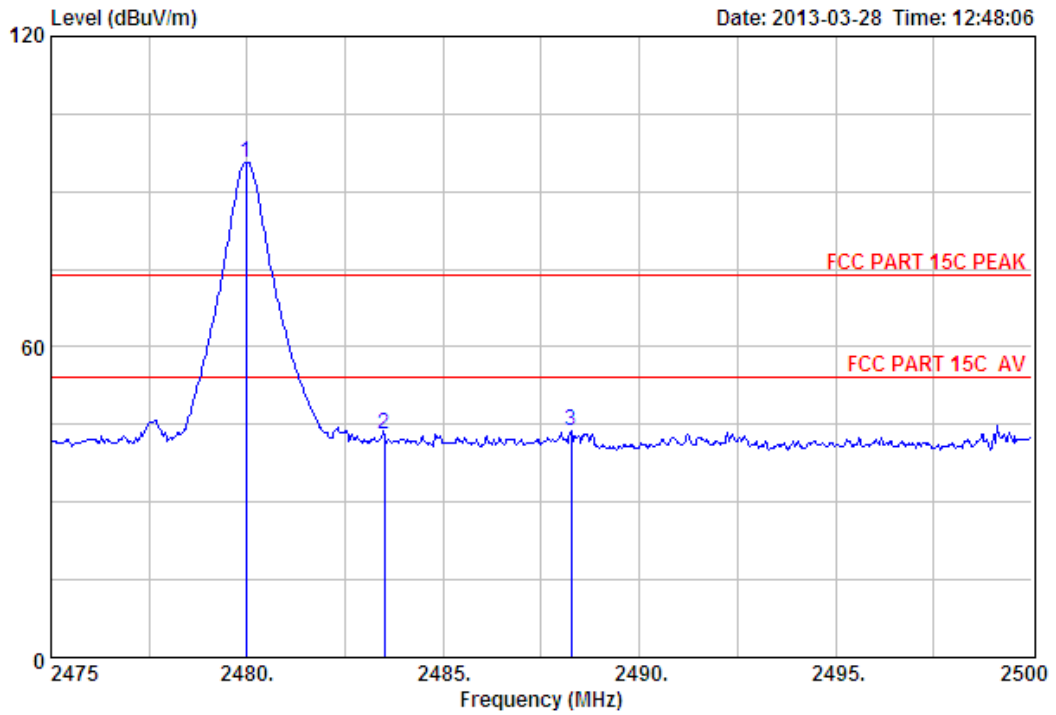
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 20
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : 8-DPSK TX 2402MHz
 Adapter 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2360.39	27.67	6.58	34.20	43.84	43.89	74.00	30.11	Peak
2	2390.00	27.64	6.62	34.19	40.83	40.90	74.00	33.10	Peak
3	2401.97	27.61	6.62	34.18	95.35	95.40	74.00	-21.40	Peak

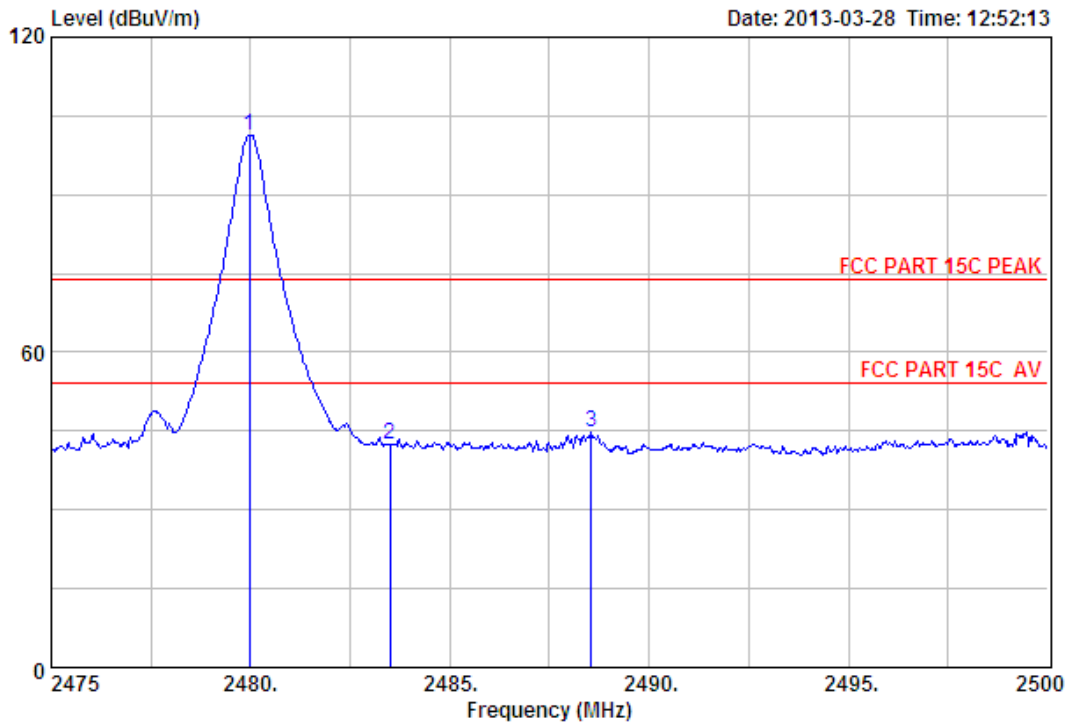
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 25
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : 8-DPSK TX 2480MHz
 Adapter 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
					Reading (dBuV)	Level (dBuV/m)			
1	2479.98	27.58	6.71	34.03	95.39	95.65	74.00	-21.65	Peak
2	2483.50	27.58	6.71	34.03	42.84	43.10	74.00	30.90	Peak
3	2488.25	27.58	6.73	34.03	43.63	43.91	74.00	30.09	Peak

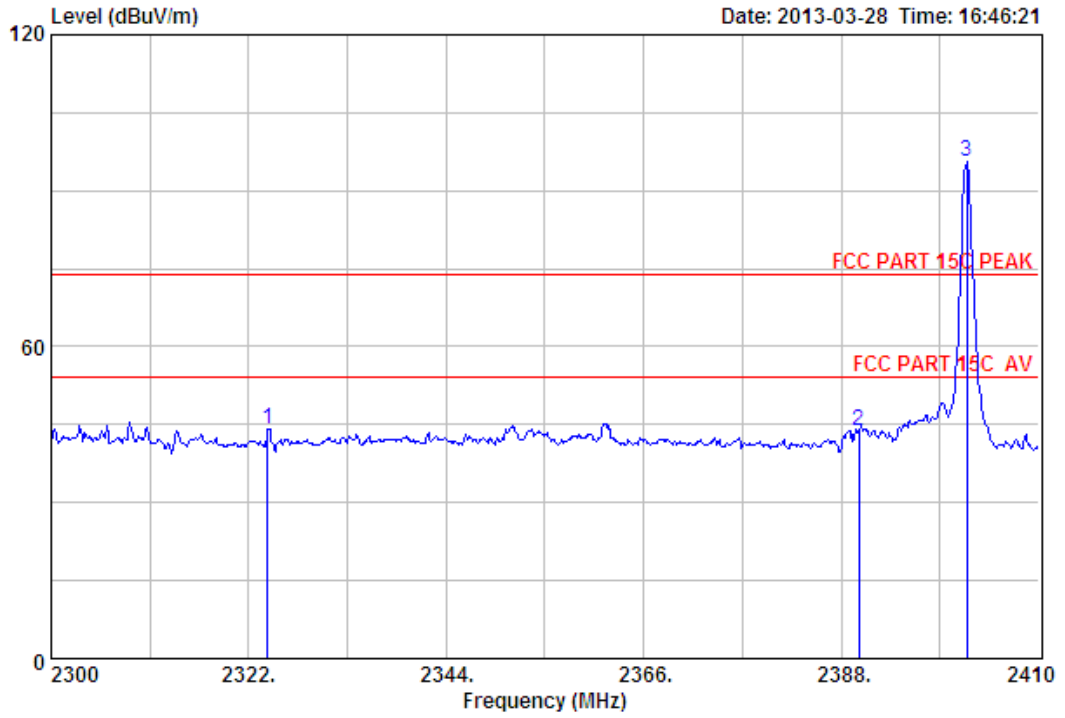
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 26
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6°;Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : 8-DPSK TX 2480MHz
 Adapter 1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2479.98	27.58	6.71	34.03	101.12	101.38	74.00	-27.38	Peak
2	2483.50	27.58	6.71	34.03	42.19	42.45	74.00	31.55	Peak
3	2488.55	27.58	6.73	34.03	44.35	44.63	74.00	29.37	Peak

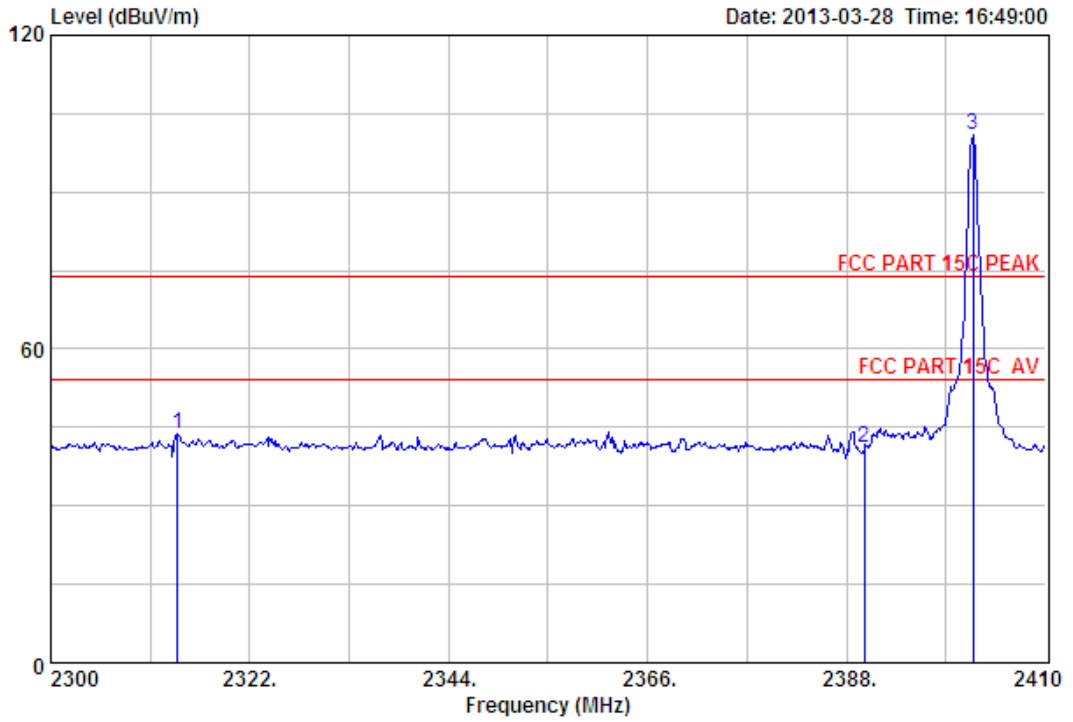
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 89
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : GFSK TX 2402MHz
 Adapter 2

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission			Remark	
					Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)		
1	2324.09	27.73	6.54	34.23	44.19	44.23	74.00	29.77	Peak
2	2390.00	27.64	6.62	34.19	43.74	43.81	74.00	30.19	Peak
3	2401.97	27.61	6.62	34.18	95.57	95.62	74.00	-21.62	Peak

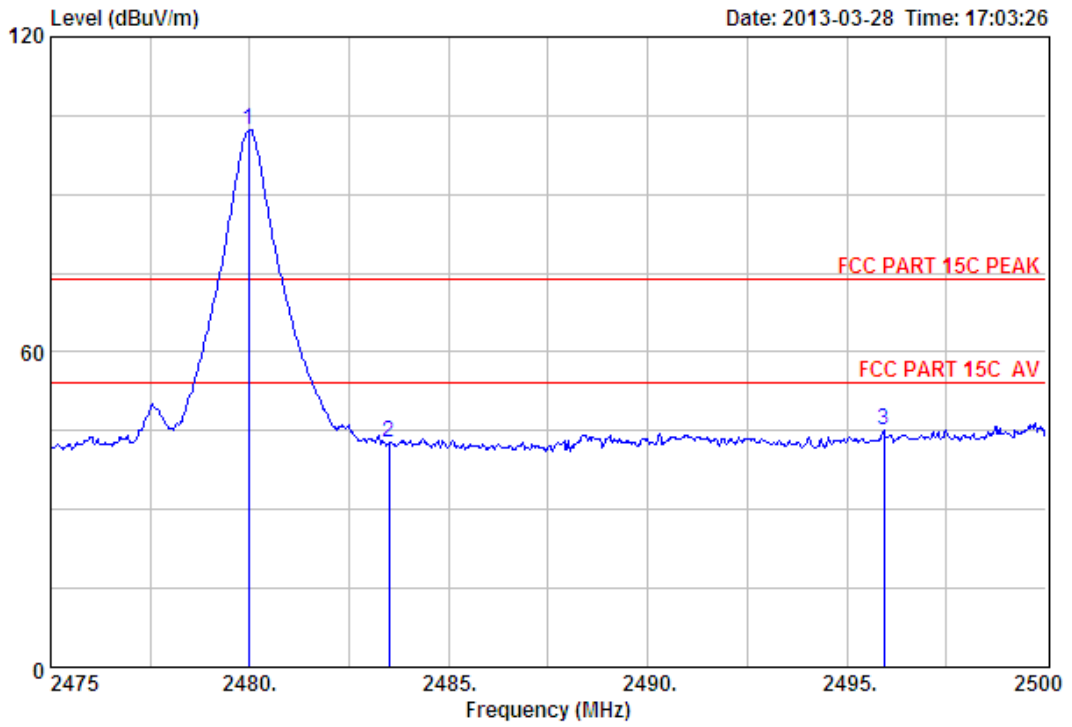
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 90
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : GFSK TX 2402MHz
 Adapter 2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2313.97	27.76	6.53	34.24	43.57	43.62	74.00	30.38	Peak
2	2390.00	27.64	6.62	34.19	40.88	40.95	74.00	33.05	Peak
3	2401.97	27.61	6.62	34.18	100.78	100.83	74.00	-26.83	Peak

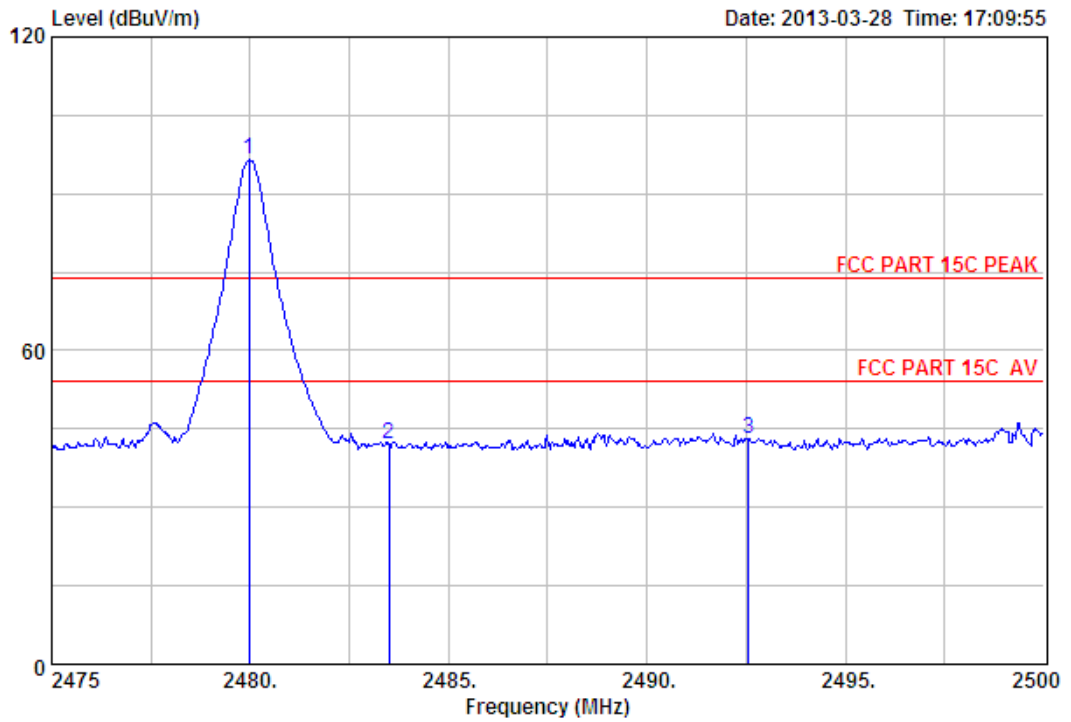
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 95
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : GFSK TX 2480MHz
 Adapter 2

	Ant.	Cable	Amp	Emission			Margin	Remark	
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	(dB)		
1	2479.98	27.58	6.71	34.03	102.00	102.26	74.00	-28.26	Peak
2	2483.50	27.58	6.71	34.03	42.36	42.62	74.00	31.38	Peak
3	2495.93	27.57	6.73	34.00	44.72	45.02	74.00	28.98	Peak

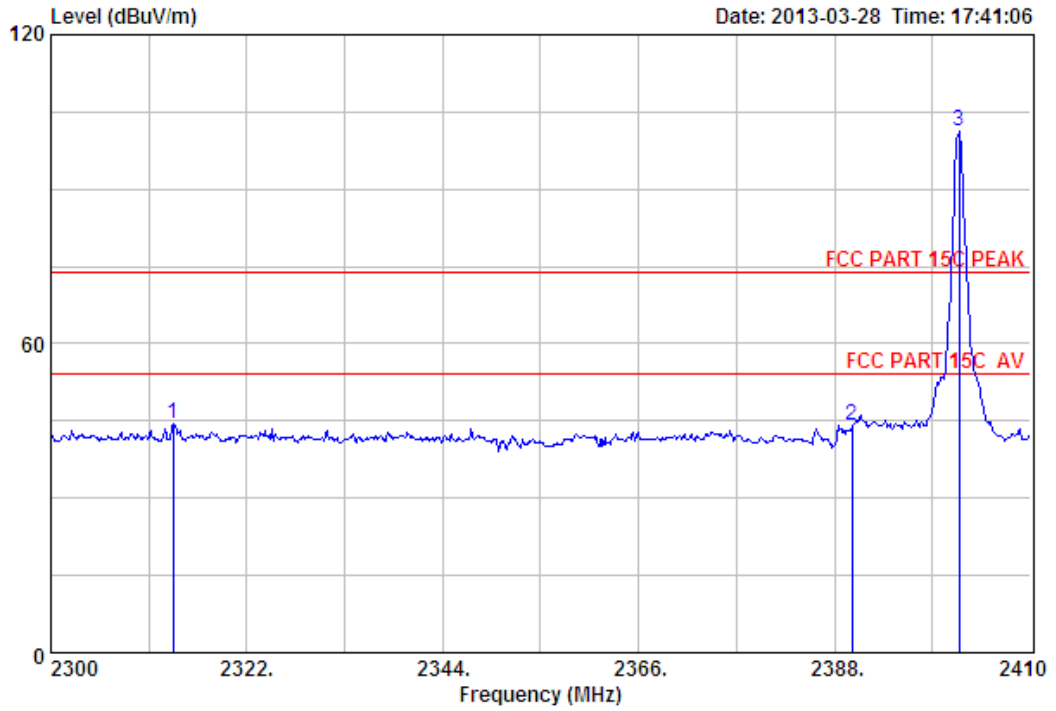
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 96
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : GFSK TX 2480MHz
 Adapter 2

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.98	27.58	6.71	34.03	96.17	96.43	74.00	-22.43	Peak
2	2483.50	27.58	6.71	34.03	41.79	42.05	74.00	31.95	Peak
3	2492.55	27.58	6.73	34.03	42.97	43.25	74.00	30.75	Peak

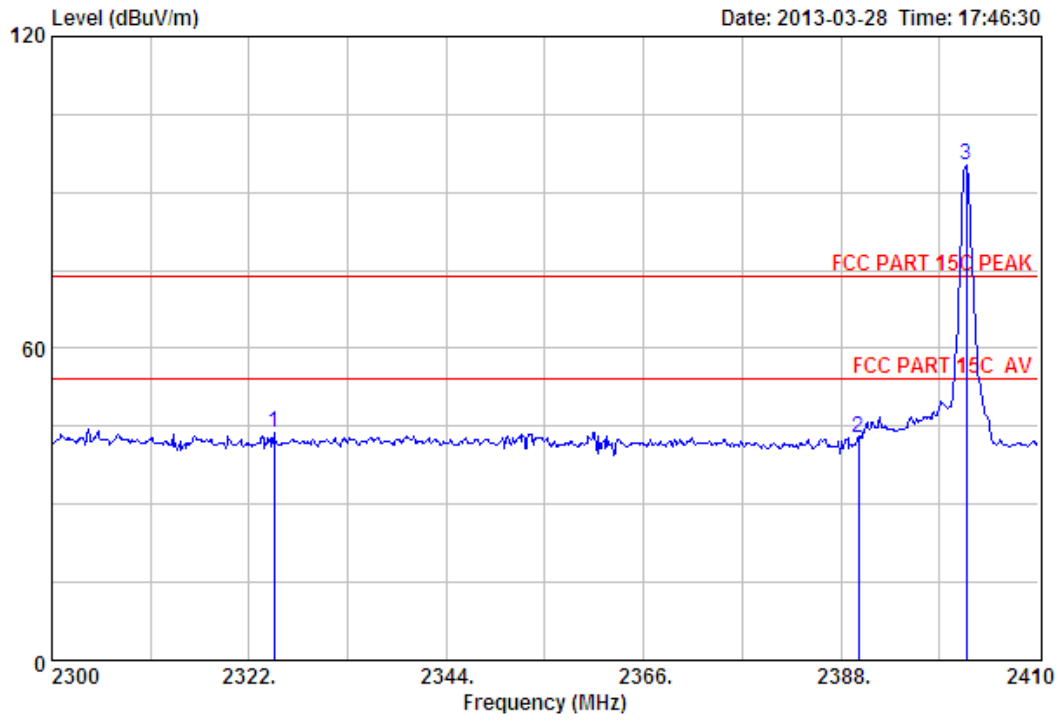
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 105
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : 8-DPSK TX 2402MHz
 Adapter 2

	Ant.	Cable	Amp	Emission		Limits	Margin	Remark	
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	(dBuV/m)	(dB)		
1	2313.75	27.76	6.53	34.24	44.26	44.31	74.00	29.69	Peak
2	2390.00	27.64	6.62	34.19	44.19	44.26	74.00	29.74	Peak
3	2401.97	27.61	6.62	34.18	101.26	101.31	74.00	-27.31	Peak

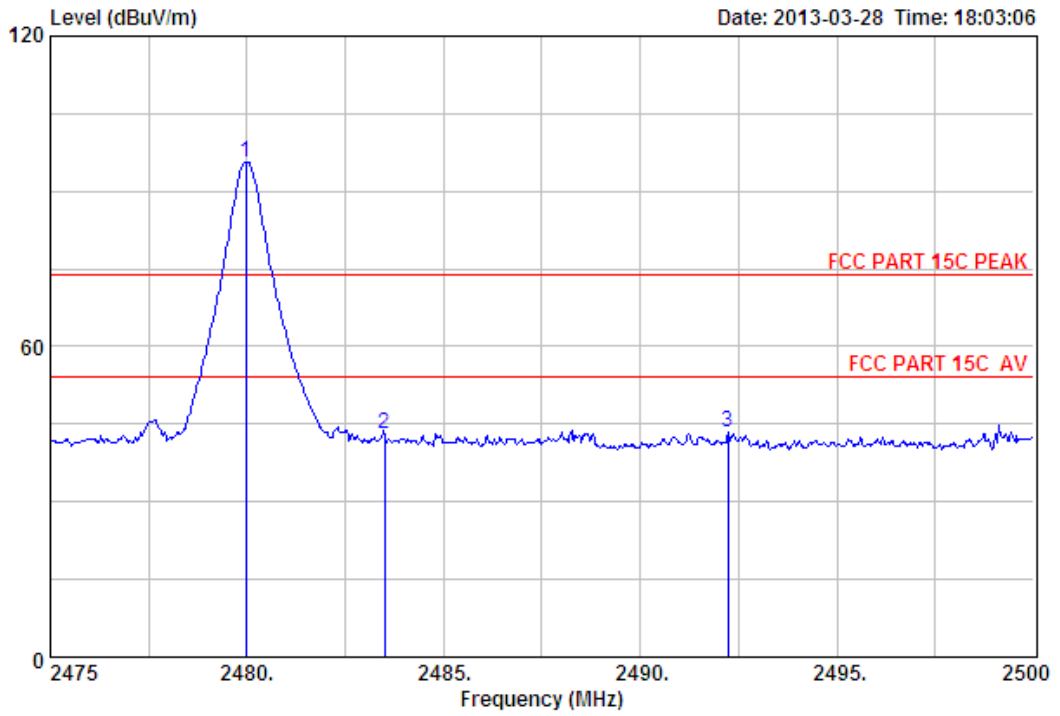
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 106
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : 8-DPSK TX 2402MHz
 Adapter 2

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission		Margin (dB)	Remark
					Level (dBuV/m)	Limits (dBuV/m)		
1	27.73	6.54	34.23	43.76	43.80	74.00	30.20	Peak
2	27.64	6.62	34.19	42.83	42.90	74.00	31.10	Peak
3	27.61	6.62	34.18	95.35	95.40	74.00	-21.40	Peak

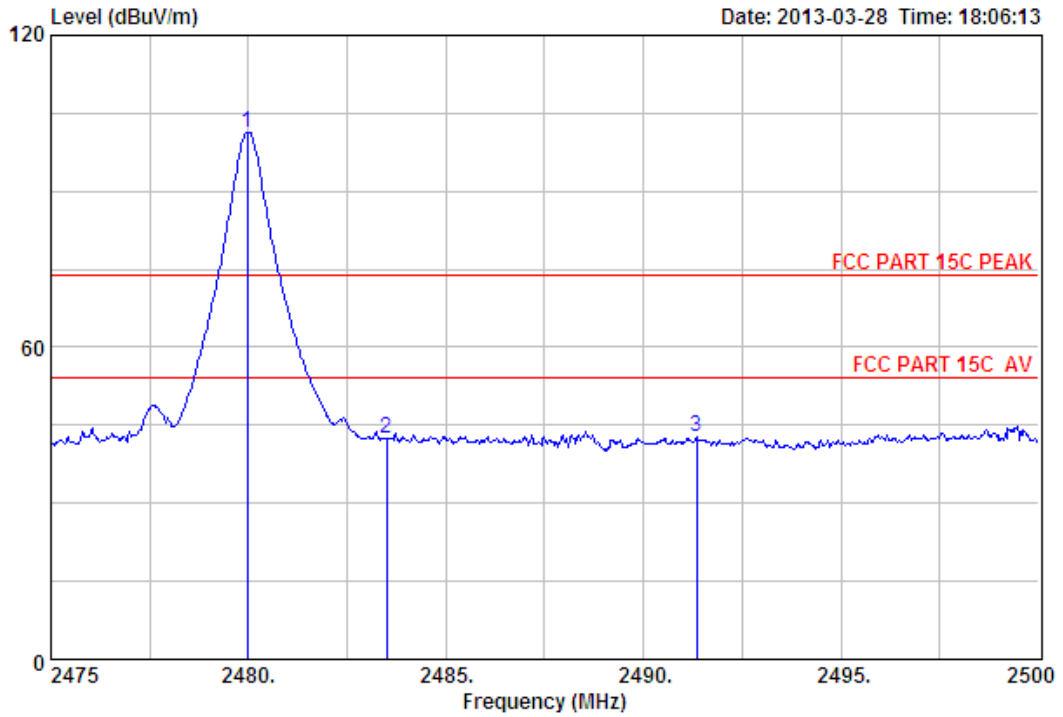
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 111
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : 8-DPSK TX 2480MHz
 Adapter 2

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission				Remark
					Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)		
1 2479.98	27.58	6.71	34.03	95.39	95.65	74.00	-21.65	Peak	
2 2483.50	27.58	6.71	34.03	42.84	43.10	74.00	30.90	Peak	
3 2492.23	27.58	6.73	34.03	43.29	43.57	74.00	30.43	Peak	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



```

Site no.       : 3m Chamber                Data no. : 112
Dis. / Ant.   : 3m ANT 1-18G             Ant. pol. : HORIZONTAL
Limit         : FCC PART 15C PEAK
Env. / Ins.   : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer      : Tony
EUT           : Portable PA with Bluetooth
Power         : DC 19V From Adapter Input AC 120V/60Hz
M/N           : Expedition Express
Test Mode     : 8-DPSK TX 2480MHz
                Adapter 2
    
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
					Reading (dBuV)	Level (dBuV/m)			
1	2479.98	27.58	6.71	34.03	101.12	101.38	74.00	-27.38	Peak
2	2483.50	27.58	6.71	34.03	42.19	42.45	74.00	31.55	Peak
3	2491.35	27.58	6.73	34.03	42.47	42.75	74.00	31.25	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

10. POWER LINE CONDUCTED EMISSIONS

10.1. Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.
 2. The lower limit shall apply at the transition frequencies.

10.2. Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT was charged from PC's USB port which connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#).. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2003 on Conducted Emission Test.

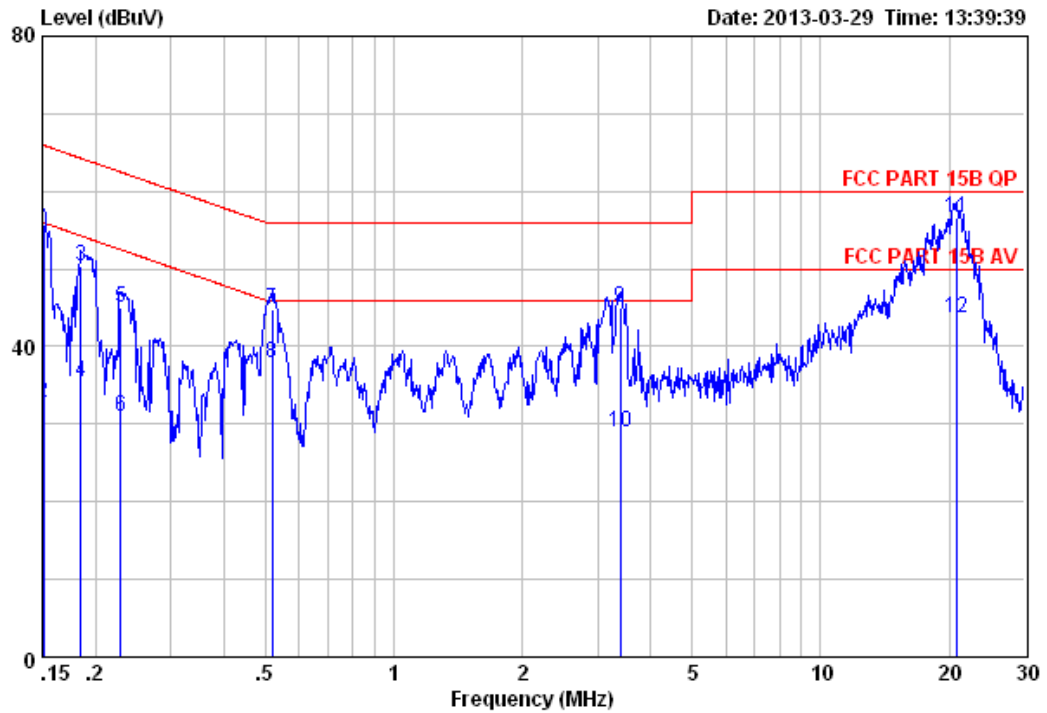
The bandwidth of test receiver (R & S ESHS30) is set at 10kHz.

The frequency range from 150kHz to 30MHz is checked.

10.3. Test Result

0.15MHz—30MHz Conducted emission Test result	
EUT: Portable PA with Bluetooth	
M/N: Expedition Express	
Power: AC 120V/60Hz	
Test date: 2013-03-29	Test site: 3m Chamber Tested by: Tony.Tang
Test mode: Tx Mode	
Pass	

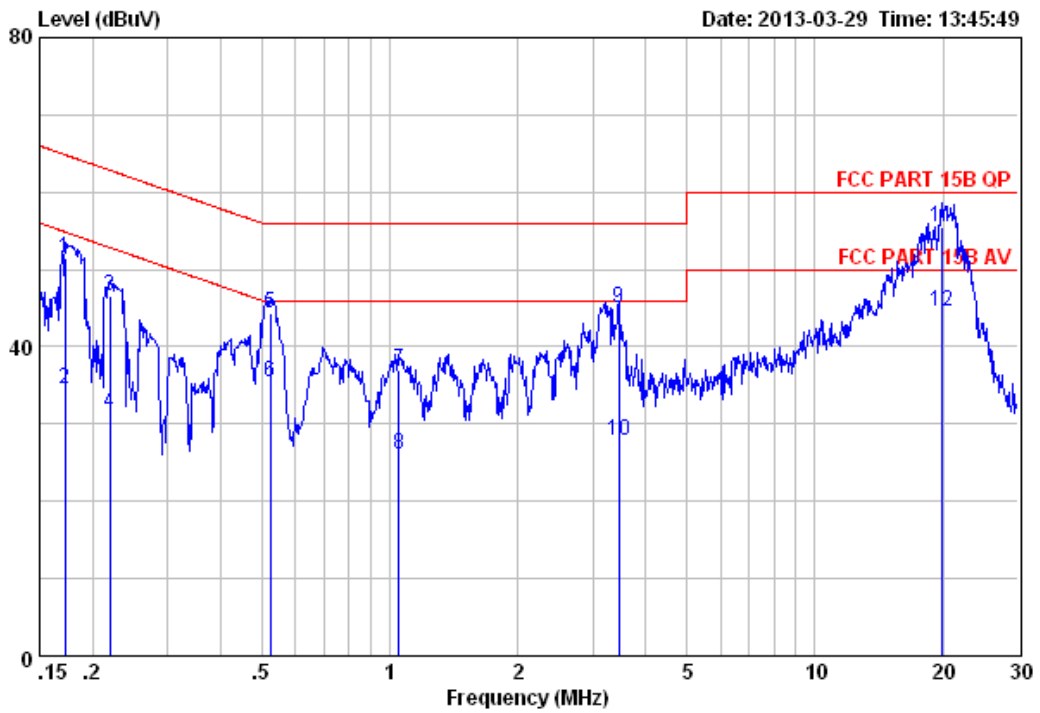
10.4. Test data



```

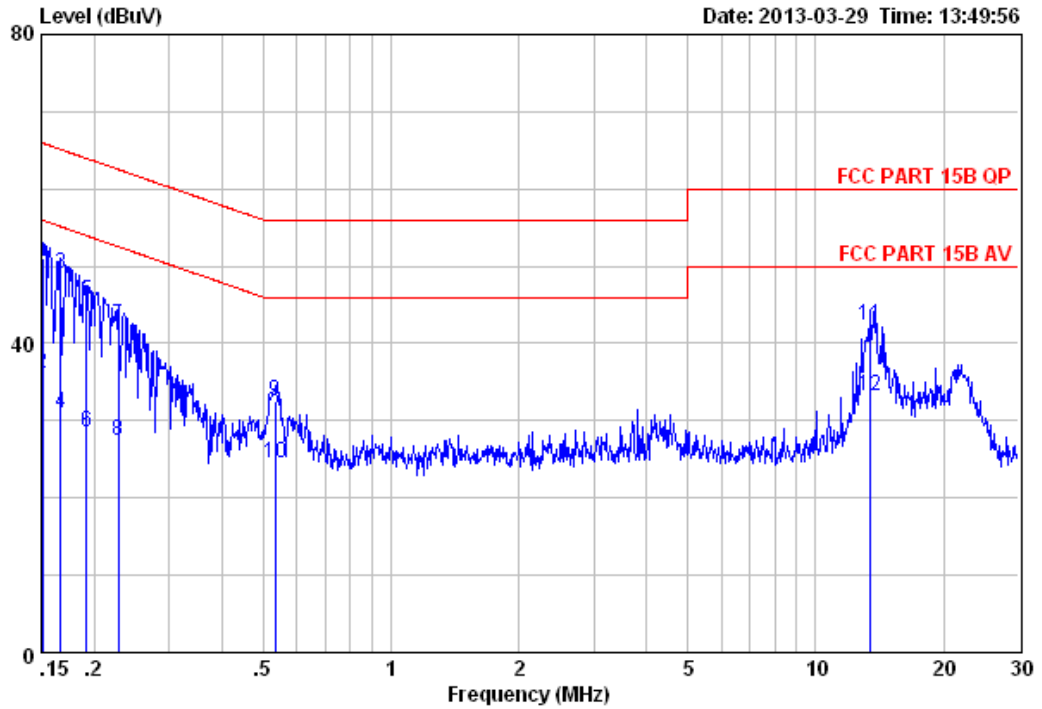
Site no.       : EST 844 Shielded Room      Data no.   : 109
Limit         : FCC PART 15B QP           LINE Phase : LINE
Env. / Ins.   : Temp:25.3'C Humi:58% Press:101.50kPa
Engineer      : Tony
EUT           : Portable PA with Bluetooth
Power        : DC 19V From Adapter Input AC 120V/60Hz
M/N          : Expedition Express
Test Mode     : TX Mode
                Adapter 1
    
```

	Freq. (MHz)	LISN Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	0.15	9.61	9.81	36.33	55.75	65.96	10.21	QP
2	0.15	9.61	9.81	13.33	32.75	55.96	23.21	Average
3	0.18	9.61	9.80	30.92	50.33	64.28	13.95	QP
4	0.18	9.61	9.80	15.92	35.33	54.28	18.95	Average
5	0.23	9.61	9.80	25.64	45.05	62.48	17.43	QP
6	0.23	9.61	9.80	11.64	31.05	52.48	21.43	Average
7	0.52	9.61	9.81	25.47	44.89	56.00	11.11	QP
8	0.52	9.61	9.81	18.47	37.89	46.00	8.11	Average
9	3.40	9.63	9.85	25.50	44.98	56.00	11.02	QP
10	3.40	9.63	9.85	9.50	28.98	46.00	17.02	Average
11	20.92	9.68	9.98	37.04	56.70	60.00	3.30	QP
12	20.92	9.68	9.98	24.04	43.70	50.00	6.30	Average



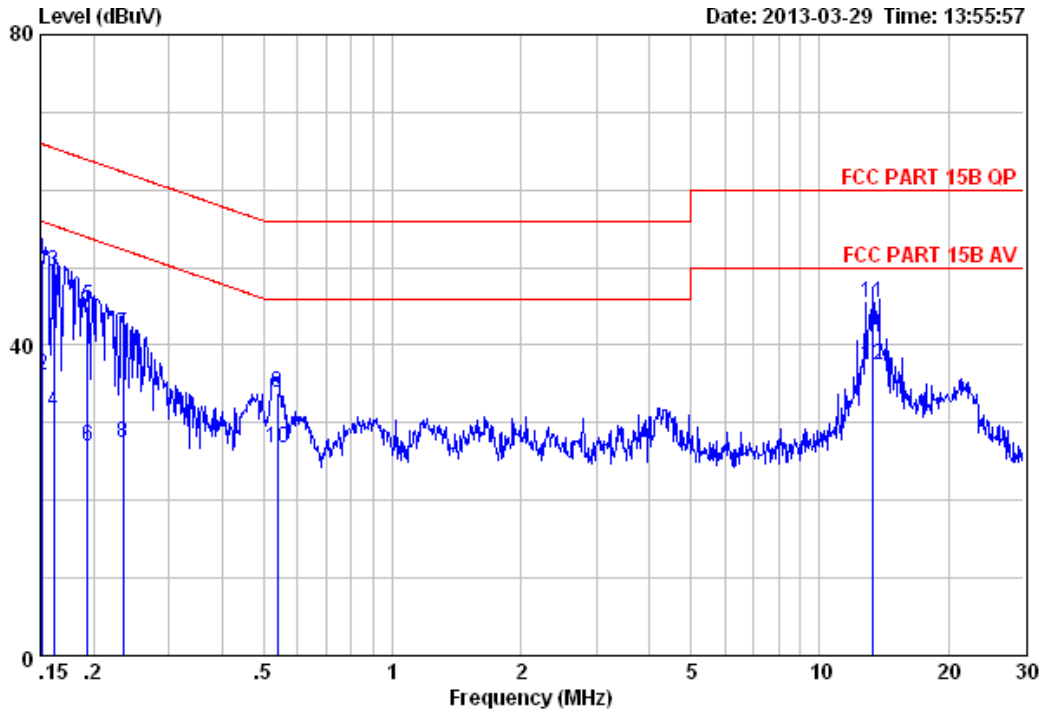
Site no. : EST 844 Shielded Room Data no. : 111
 Limit : FCC PART 15B QP LINE Phase : NEUTRAL
 Env. / Ins. : Temp:25.3'C Humi:58% Press:101.50kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : TX Mode
 Adapter 1

	Freq. (MHz)	LISN Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	0.17	9.53	9.81	32.09	51.43	64.86	13.43	QP
2	0.17	9.53	9.81	15.09	34.43	54.86	20.43	Average
3	0.22	9.60	9.80	27.07	46.47	62.83	16.36	QP
4	0.22	9.60	9.80	12.07	31.47	52.83	21.36	Average
5	0.52	9.60	9.81	24.92	44.33	56.00	11.67	QP
6	0.52	9.60	9.81	15.92	35.33	46.00	10.67	Average
7	1.05	9.61	9.84	17.56	37.01	56.00	18.99	QP
8	1.05	9.61	9.84	6.56	26.01	46.00	19.99	Average
9	3.45	9.64	9.85	25.47	44.96	56.00	11.04	QP
10	3.45	9.64	9.85	8.47	27.96	46.00	18.04	Average
11	19.95	9.88	9.97	35.70	55.55	60.00	4.45	QP
12	19.95	9.88	9.97	24.70	44.55	50.00	5.45	Average



Site no. : EST 844 Shielded Room Data no. : 113
 Limit : FCC PART 15B QP LINE Phase : LINE
 Env. / Ins. : Temp:25.3'C Humi:58% Press:101.50kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : TX Mode
 Adapter 2

	Freq. (MHz)	LISN Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv/m)	Limits (dBuv/m)	Margin (dB)	Remark
1	0.15	9.61	9.81	31.59	51.01	65.96	14.95	QP
2	0.15	9.61	9.81	16.59	36.01	55.96	19.95	Average
3	0.17	9.61	9.81	29.57	48.99	65.12	16.13	QP
4	0.17	9.61	9.81	11.57	30.99	55.12	24.13	Average
5	0.19	9.61	9.80	26.02	45.43	63.98	18.55	QP
6	0.19	9.61	9.80	9.02	28.43	53.98	25.55	Average
7	0.23	9.61	9.80	22.96	42.37	62.52	20.15	QP
8	0.23	9.61	9.80	7.96	27.37	52.52	25.15	Average
9	0.53	9.61	9.81	13.07	32.49	56.00	23.51	QP
10	0.53	9.61	9.81	5.07	24.49	46.00	21.51	Average
11	13.48	9.67	9.91	22.68	42.26	60.00	17.74	QP
12	13.48	9.67	9.91	13.68	33.26	50.00	16.74	Average



Site no. : EST 844 Shielded Room Data no. : 115
 Limit : FCC PART 15B QP LINE Phase : NEUTRAL
 Env. / Ins. : Temp:25.3'C Humi:58% Press:101.50kPa
 Engineer : Tony
 EUT : Portable PA with Bluetooth
 Power : DC 19V From Adapter Input AC 120V/60Hz
 M/N : Expedition Express
 Test Mode : TX Mode
 Adapter 2

	Freq. (MHz)	LISN Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv/m)	Limits (dBuv/m)	Margin (dB)	Remark
1	0.15	9.46	9.81	31.72	50.99	65.91	14.92	QP
2	0.15	9.46	9.81	16.72	35.99	55.91	19.92	Average
3	0.16	9.50	9.81	30.20	49.51	65.38	15.87	QP
4	0.16	9.50	9.81	12.20	31.51	55.38	23.87	Average
5	0.19	9.58	9.80	25.55	44.93	63.89	18.96	QP
6	0.19	9.58	9.80	7.55	26.93	53.89	26.96	Average
7	0.23	9.60	9.82	22.03	41.45	62.30	20.85	QP
8	0.23	9.60	9.82	8.03	27.45	52.30	24.85	Average
9	0.54	9.60	9.82	14.41	33.83	56.00	22.17	QP
10	0.54	9.60	9.82	7.41	26.83	46.00	19.17	Average
11	13.27	9.73	9.91	25.76	45.40	60.00	14.60	QP
12	13.27	9.73	9.91	17.76	37.40	50.00	12.60	Average

11. ANTENNA REQUIREMENTS

11.1. Limit

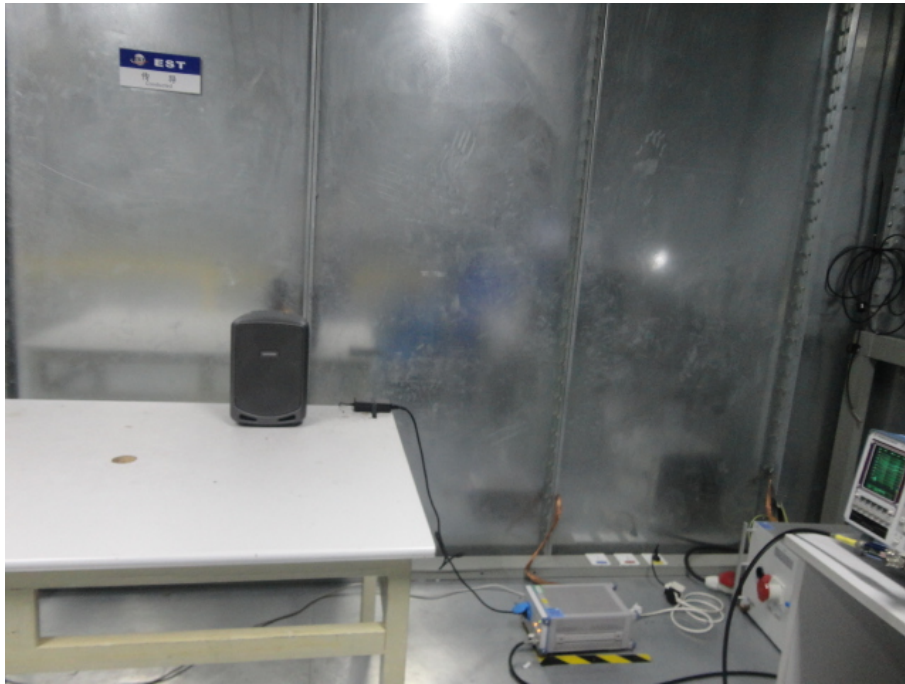
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

11.2. Result

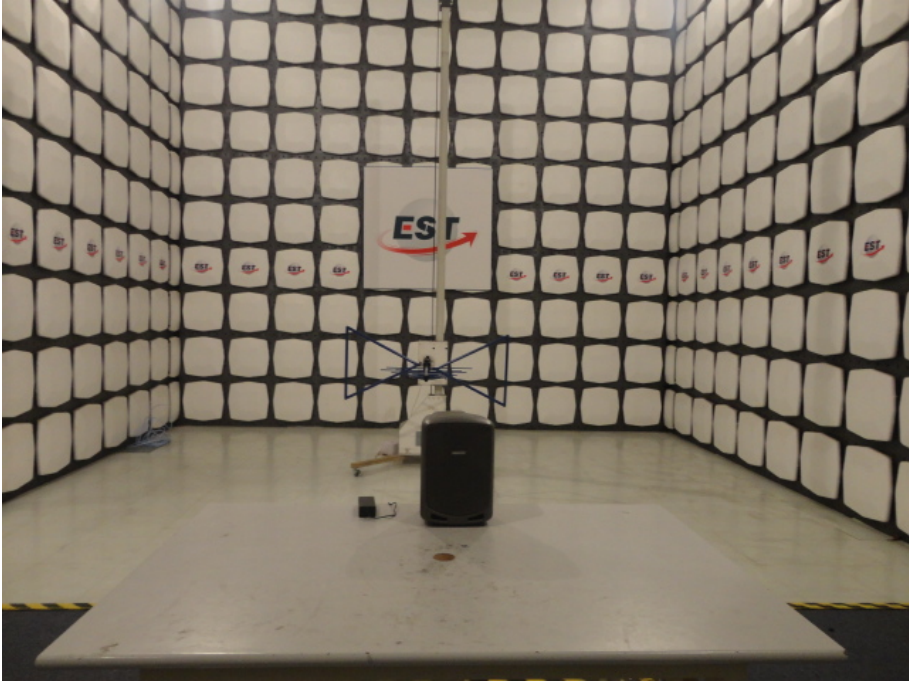
The antennas used for this product are integral Patch Antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 1dBi.

12. TEST SETUP PHOTO

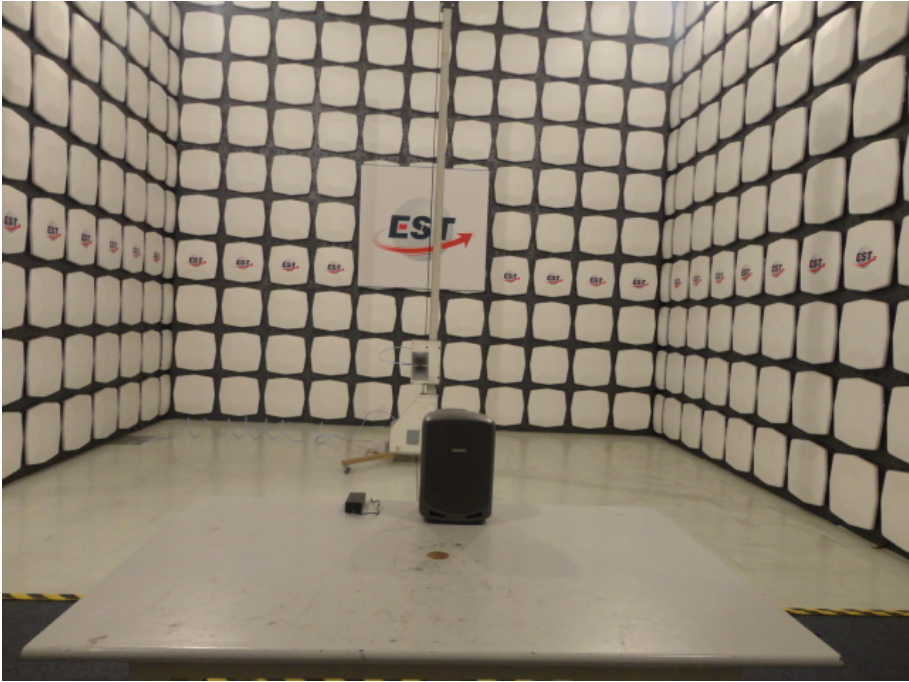
Conducted Test



Radiated Test (30-1000 MHz)



Radiated Test (1000-25000 MHz)

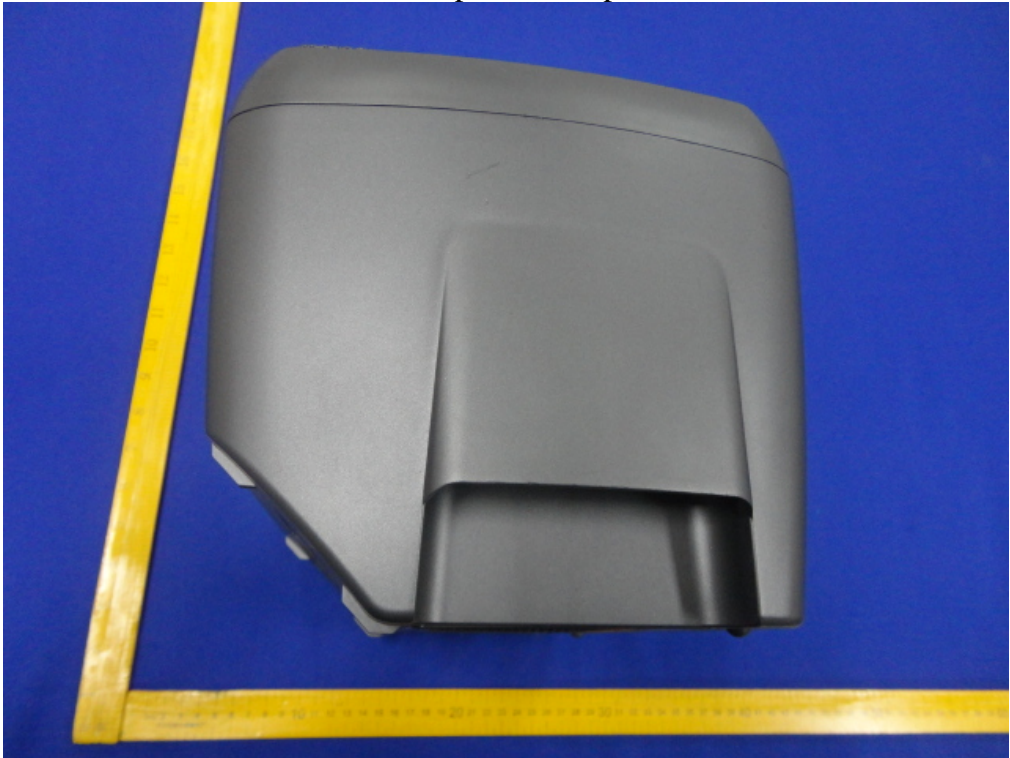


13. PHOTOS OF EUT

External Photos
M/N: Expedition Express



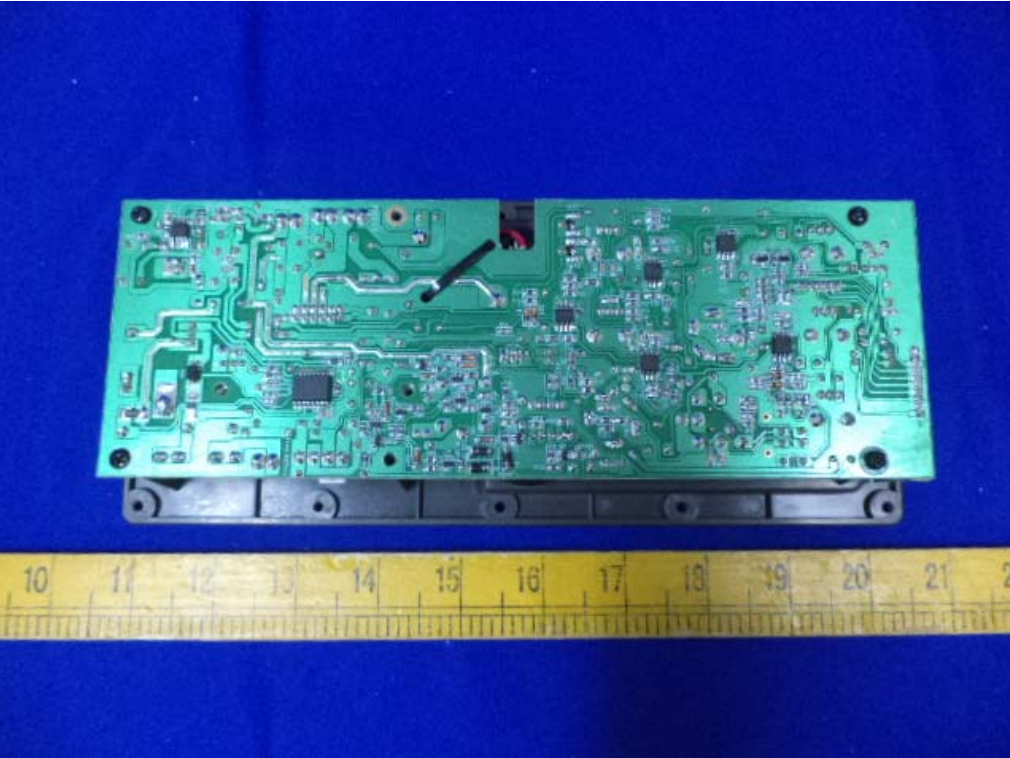
External Photos
M/N: Expedition Express



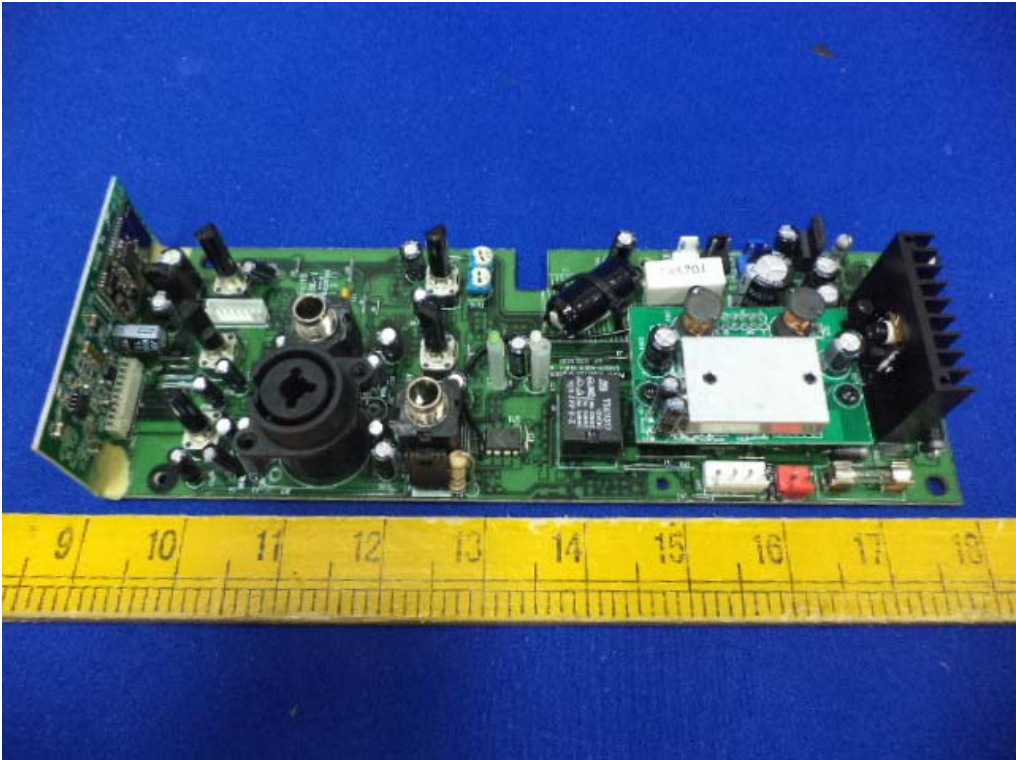
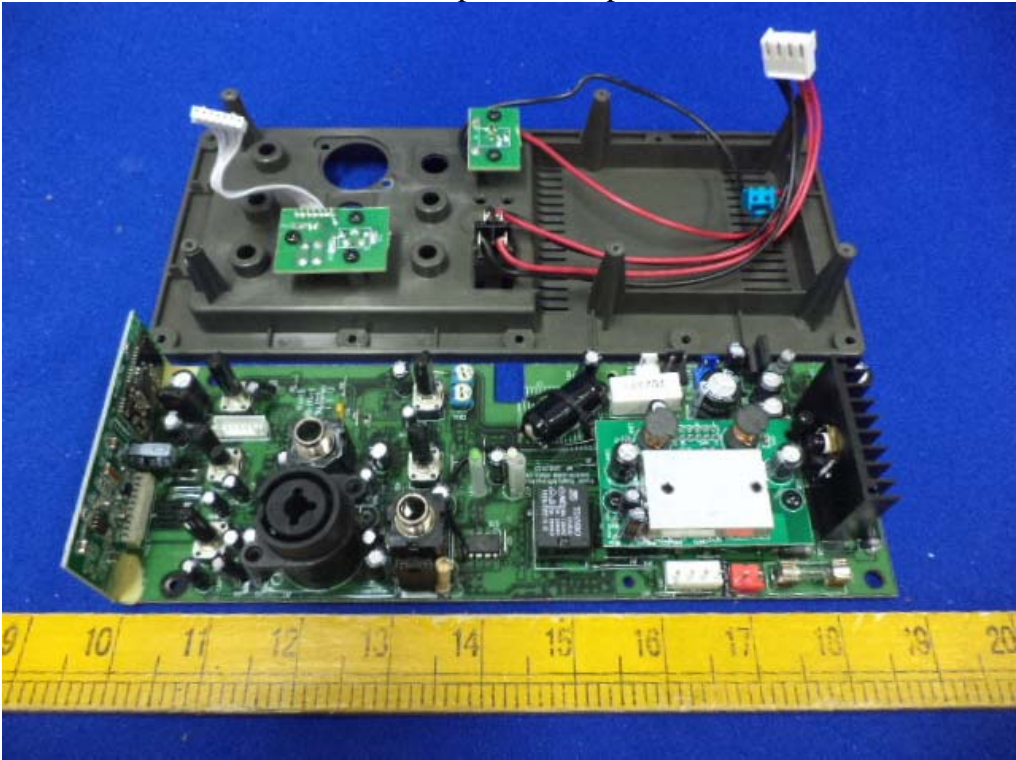
External Photos
M/N: Expedition Express



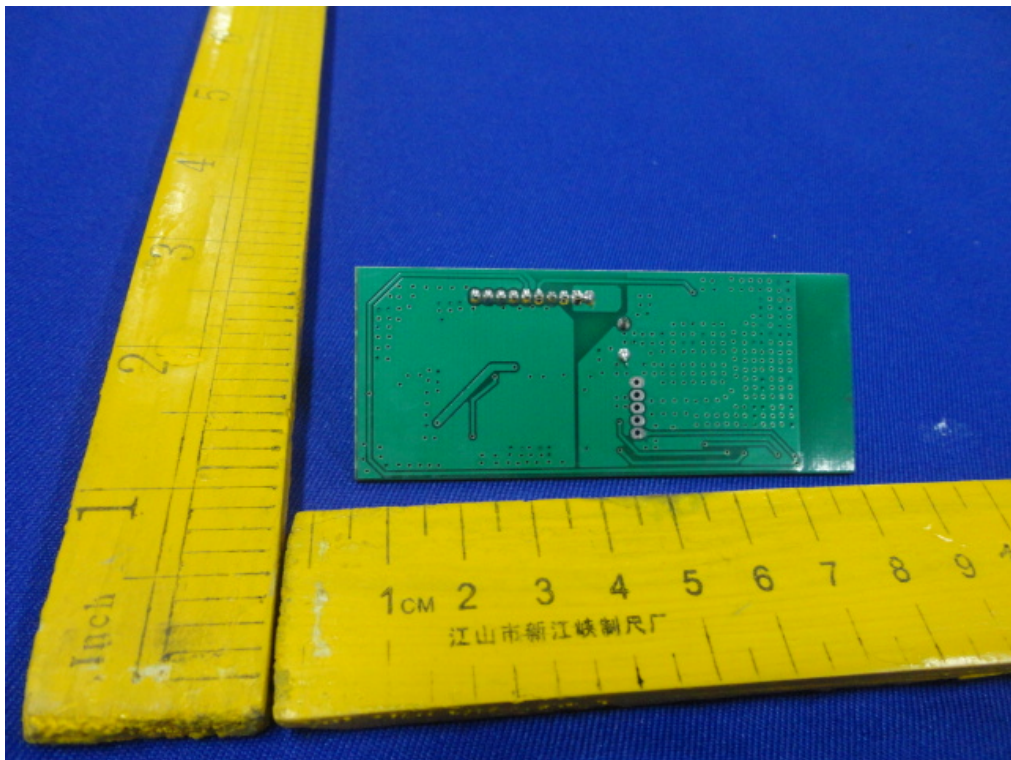
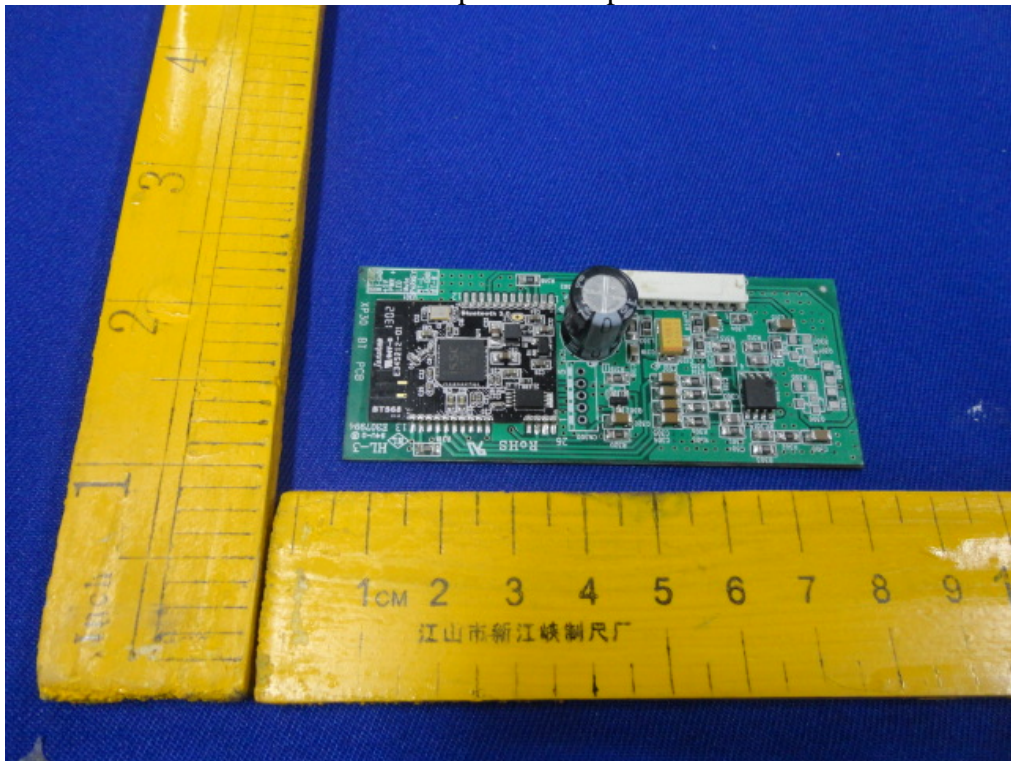
Internal Photos
M/N: Expedition Express



Internal Photos
M/N: Expedition Express

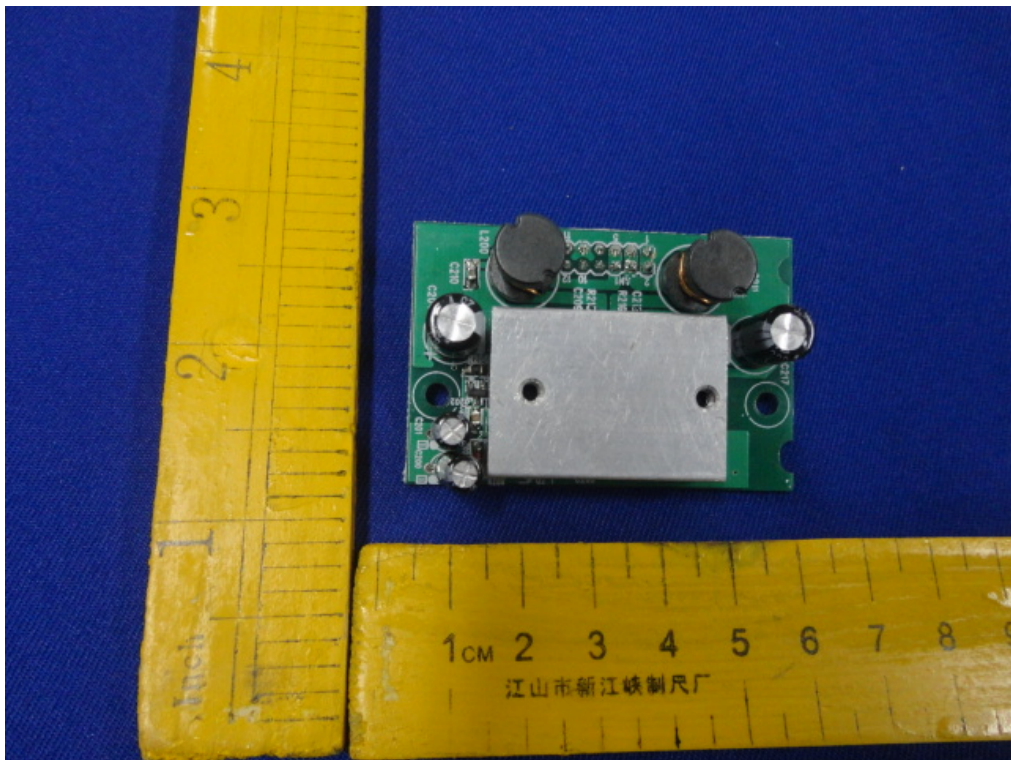
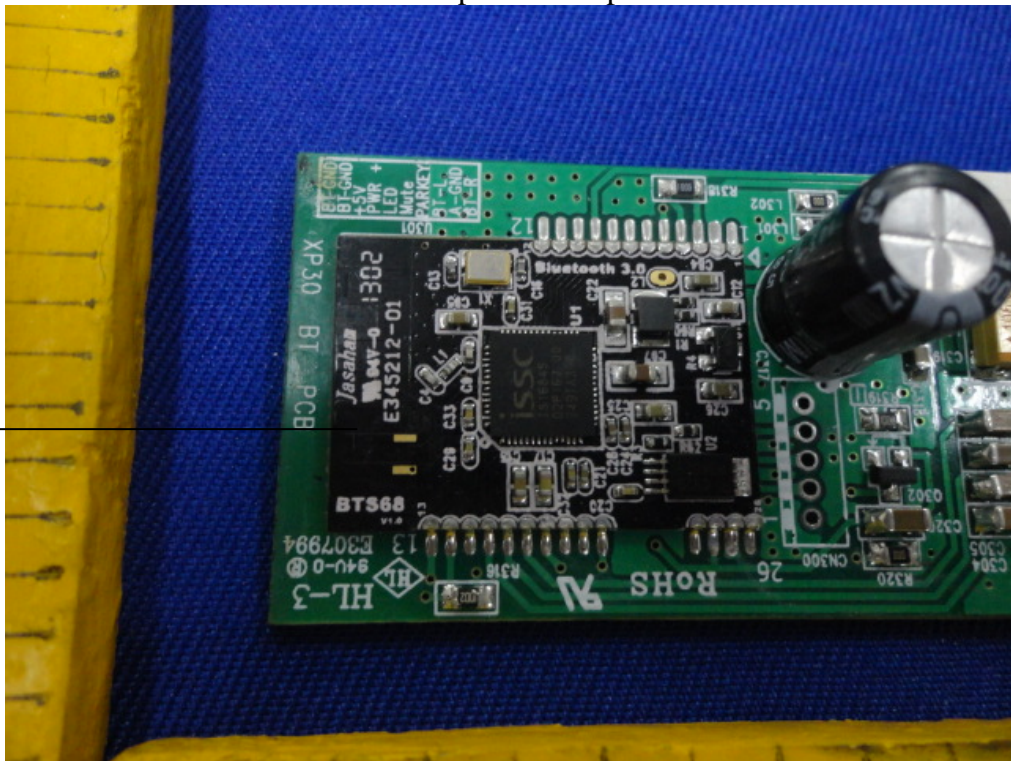


Internal Photos
M/N: Expedition Express

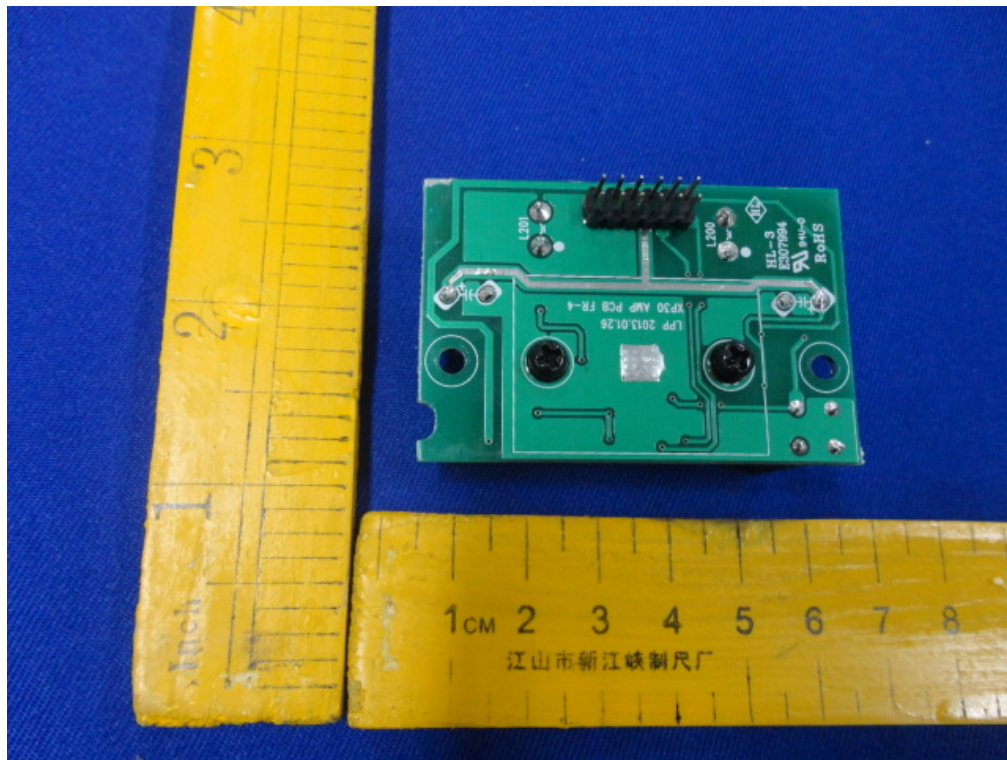
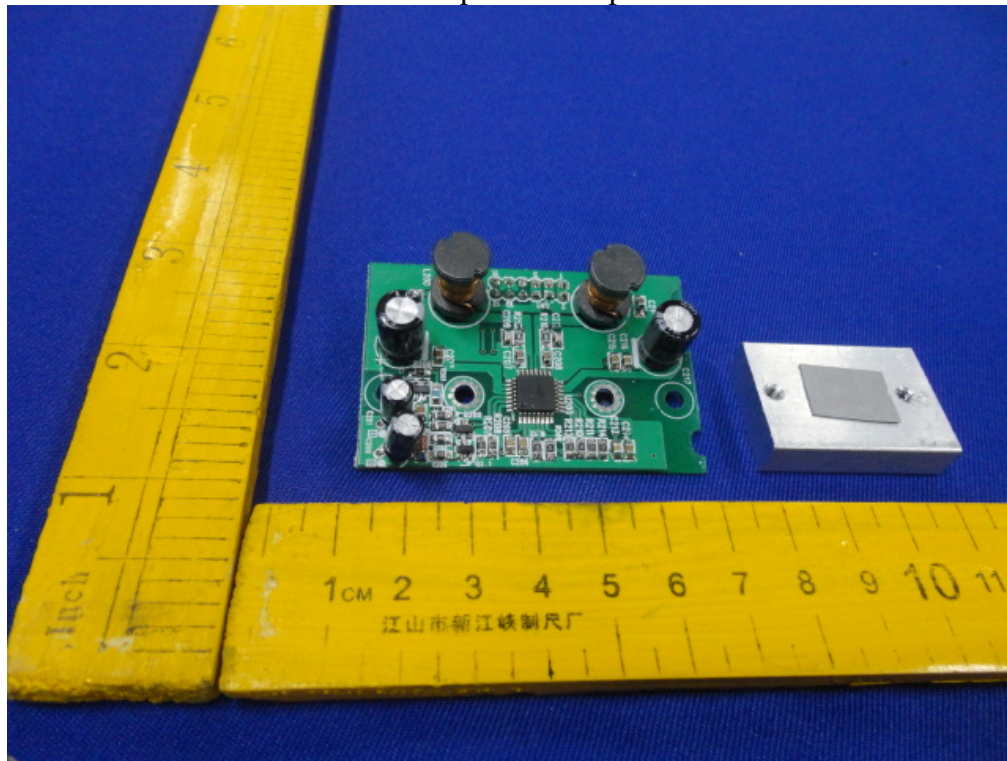


Internal Photos
M/N: Expedition Express

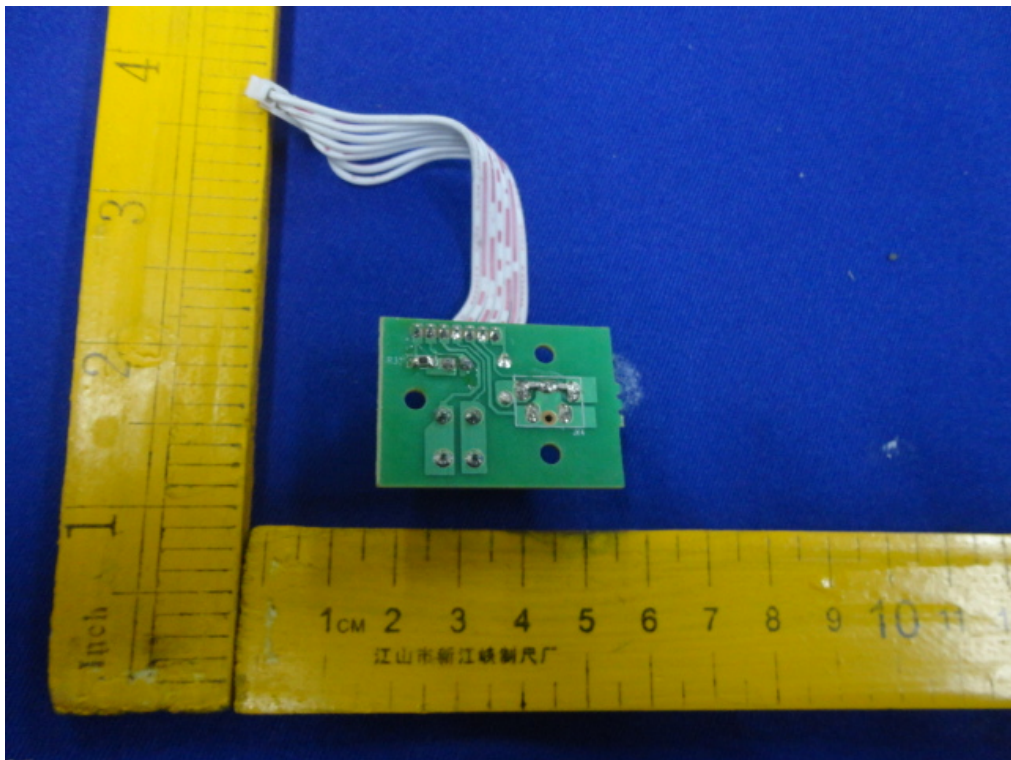
Antenna



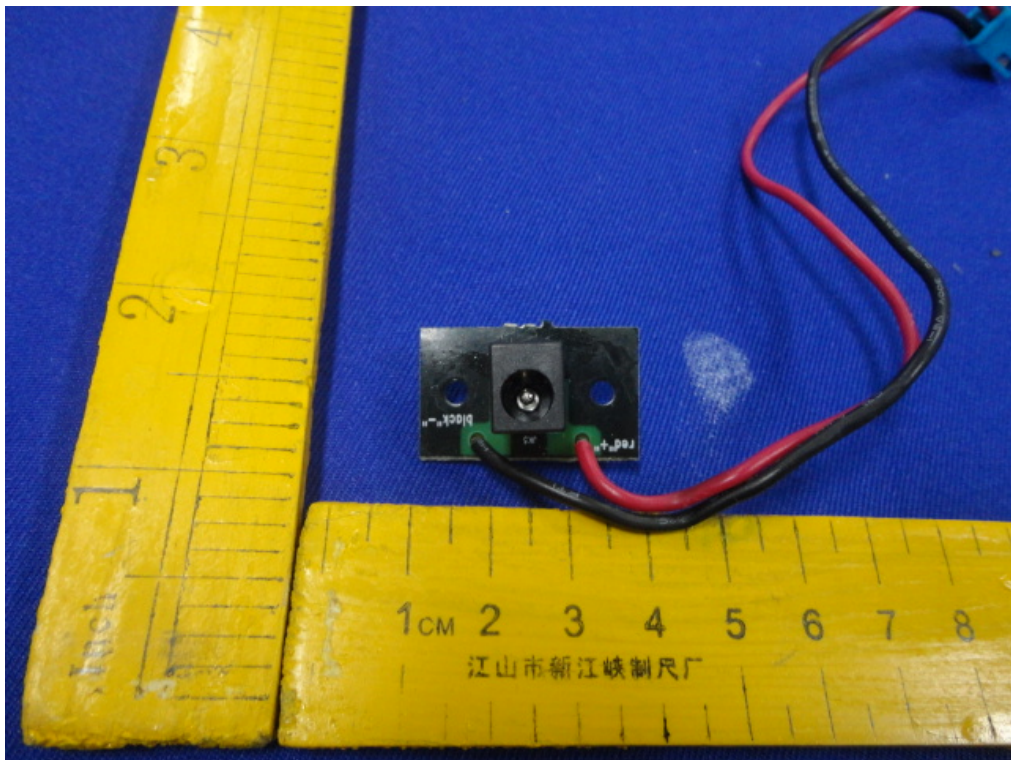
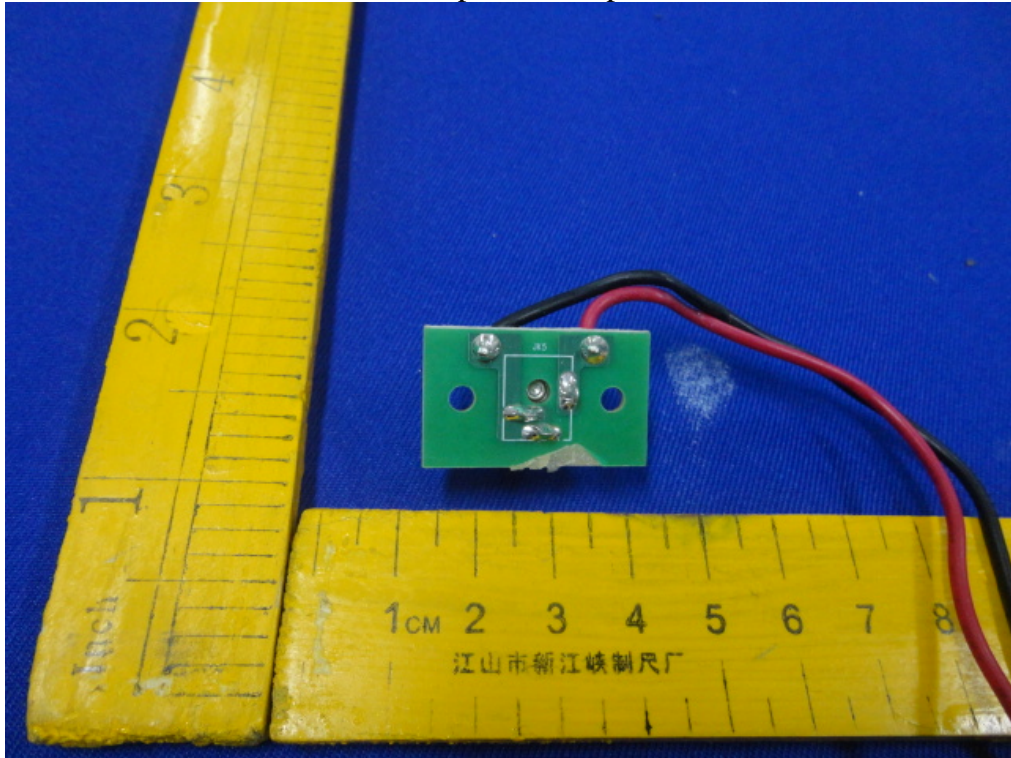
Internal Photos
M/N: Expedition Express



Internal Photos
M/N: Expedition Express



Internal Photos
M/N: Expedition Express



Internal Battery Photos

M/N: MS12V2.6



Internal Battery Photos

M/N: HYS1222



Adapter Photos
M/N: TDX-1903000



Adapter Photos
M/N: FJ-SW1903000

