FCC / IC RADIO TEST REPORT

Report No.: DEFB1706063

Applicant : Onkyo & Pioneer Innovations Corporation

Address : Onkyo Yaesu Bidg, 2-3-12 Yaesu, Chuo-ku

Equipment: BT Sport Earphone

Model No. : SE-E7BT, SE-E7BTM

Trademark: Pioneer

FCC ID : 2AE79-E7BT

IC : 21257-E7BT

I HEREBY CERTIFY THAT:

The sample was received on Jul. 03, 2017 and the testing was carried out on Jul. 13, 2017 at Cerpass Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of Cerpass Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Mark Liao

EMC/RF B.U. Manager

Laboratory Accreditation:

Cerpass Technology Corporation Test Laboratory

TAF LAB Code: 1439

Cerpass Technology Corp. :1 of 111 Page No.

Issued Date: Jul. 17, 2017

Contents

1.	Report of Measurements and Examinations				
	1.1	List of Measurements and Examinations	5		
2.	Test	t Configuration of Equipment under Test	6		
	2.1	Feature of Equipment under Test	6		
	2.2	Carrier Frequency of Channels	6		
	2.3	Test Mode & Test Software	7		
	2.4	Description of Test System	7		
	2.5	General Information of Test	8		
	2.6	Measurement Uncertainty	8		
3.	Test	t Equipment and Ancillaries Used for Tests	9		
4.	Ante	enna Requirements	10		
	4.1	Standard Applicable	10		
	4.2	Antenna Construction and Directional Gain	10		
5.	Test	t of Conducted Emission	11		
	5.1	Test Limit	11		
	5.2	Test Procedures	11		
	5.3	Typical Test Setup	12		
	5.4	Test Result and Data	13		
6.	Test of Radiated Emission				
	6.1	Test Limit	15		
	6.2	Test Procedures	16		
	6.3	Typical Test Setup	16		
	6.4	Test Result and Data (9kHz~30MHz)	18		
	6.5	Test Result and Data (30MHz~1GHz)	18		
	6.6	Test Result and Data (1GHz~25GHz)	22		
7.	20dE	B Bandwidth and 99% Occupied Bandwidth	58		
	7.1	Test Limit	58		
	7.2	Test Procedures	58		
	7.3	Test Setup Layout	58		
	7.4	Test Result and Data	58		
8.	Freq	quencies Separation	64		
	8.1	Test Limit	64		
	8.2	Test Procedures	64		
	8.3	Test Setup Layout	64		
	8.4	Test Result and Data	64		
9.	Dwe	ell Time on each channel	67		
	9.1	Test Limit	67		
	9.2	Test Procedures	67		
	9.3	Test Setup Layout	67		
	9.4	Test Result and Data	68		
10.	Num	nber of Hopping Channels	75		
	10.1	Test Limit	75		



	10.2	Test Procedures	75
	10.3	Test Setup Layout	75
	10.4	Test Result and Data	75
11.	Maxir	mum Peak Output Power	78
	11.1	Test Limit	78
	11.2	Test Procedures	78
	11.3	Test Setup Layout	78
	11.4	Test Result and Data	78
12.	Band	Edges Measurement	84
	12.1	Test Limit	84
	12.2	Test Procedure	84
	12.3	Test Setup Layout	84
	12.4	Test Result and Data	85
	12.5	Restrict band emission Measurement Data	99
13.	Restr	ricted Bands of Operation	111
	13.1	Labeling Requirement	111



History of this test report

■ ORIGINAL

 $\hfill\square$ Additional attachment as following record:

Attachment No.	Issue Date	Description
DEFB1706063	Jul. 17, 2017	Original
	ĺ	

Cerpass Technology Corp. Issued Date :Jul. 17, 2017

Page No. :4 of 111



1. Report of Measurements and Examinations

1.1 List of Measurements and Examinations

FCC Part 15 subpart C/RSS-247 Issue 2/RSS-Gen Issue 4

FCC Rule	IC Rule	. Description of Test	Result
§ 15.203 RSS-GEN 8.3		. Antenna Requirement	Pass
§ 15.207(a)	RSS-GEN 8.8	. Conducted Emission	Pass
§ 15.209(a)	RSS-247 Section 5.5	. Radiated Emission	Pass
§ 15.247(a)(1)	RSS-247 Section 5.1(b)	. Channel Carrier Frequencies Separation	Pass
§ 15.247(a)(1)	RSS-247 5.1(1)	. 20dB Bandwidth and 99% Occupied Bandwidth	Pass
§ 15.247(a)(1)	RSS-247 Section 5.1(d)	. Dwell Time	Pass
§ 15.247(a)(1)	RSS-247 Section 5.1(d)	. Number of Hopping Channels	Pass
§ 15.247(b)	RSS-247 Section 5.1(b)	. Peak Output Power Measurement Data	Pass
§ 15.247(d) RSS-247 Section 5.5		. Band Edges Measurement Data	Pass

Cerpass Technology Corp. Issued Date : Jul. 17, 2017

Page No. :5 of 111

2. Test Configuration of Equipment under Test

2.1 Feature of Equipment under Test

Frequency Range	2402MHz~248 MHz
Type of Modulation	FHSS
Channel Number	79 channels
Channel of Bandwidth	Bluetooth: 1MHz
Data Rate	1Mbps
Type of Antenna	Ceramic Chip Antenna
Antenna Gain	3.6dBi
Rating Input	125mAh 3.7V Li-Po Rechargeable Battery
Rating Input	DC 5V charged by USB port
Model Discrepancy:	Printing differences: SE-E7BT,SE-E7BTM
	The models will have different colors
Remark:	Color differences: SE-E7BT(H),SE-E7BT(R),SE-E7BT(Y)
	Color differences:SE-E7BTM(H),SE-E7BTM(R),SE-E7BTM(Y)

Note: 1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.2 Carrier Frequency of Channels

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	20	2422	40	2442	60	2462
01	2403	21	2423	41	2443	61	2463
02	2404	22	2424	42	2444	62	2464
03	2405	23	2425	43	2445	63	2465
04	2406	24	2426	44	2446	64	2466
05	2407	25	2427	45	2447	65	2467
06	2408	26	2428	46	2448	66	2468
07	2409	27	2429	47	2449	67	2469
08	2410	28	2430	48	2450	68	2470
09	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461		

Cerpass Technology Corp. Issued Date : Jul. 17, 2017

> Page No. :6 of 111



2.3 Test Mode & Test Software

- a. During testing, the interface cables and equipment positions were varied according to ANSI C63.10
- b. The complete test system included EUT, Notebook, USB Mouse for RF test.
- c. Run the test software "CSR BlueSuite 2.6.0 Blue Test3", input RF test command and set the test mode and channel, then press OK to start continue transmit.
- d. The following test mode was performed for conduction and radiation test:

Test Mode 1: GFSK: CH 00: 2402MHz, CH 39: 2441MHz, CH 78: 2480MHz.

Test Mode 2:π/4 DQPSK: CH 00: 2402MHz, CH 39: 2441MHz, CH 78: 2480MHz.

Test Mode 3: 8DPSK: CH 00: 2402MHz, CH 39: 2441MHz, CH 78: 2480MHz.

2.4 Description of Test System

No	Device	Manufacturer	Model No.	Description
1	Notebook	SONY	PCG-71811P	R33021
2	USB Mouse	DELL	OXN967	R41108

Cable:

No.	Cable	Quantity	Description
Α	USB Cable	1	0.8m Shielding
В	USB Mouse Cable	1	1.8m Non Shielding

Cerpass Technology Corp. Issued Date : Jul. 17, 2017

Page No. :7 of 111

2.5 General Information of Test

	Test Site	Cerpass Technology Corporation Test Laboratory Address: No.10, Ln. 2, Lianfu St., Luzhu Dist., Taoyuan City 33848, Taiwan (R.O.C.) Tel:+886-3-3226-888 Fax:+886-3-3226-881 Address: No.68-1, Shihbachongsi, Shihding Township, New Taipei City 223, Taiwan, R.O.C. Tel: +886-2-2663-8582			
	FCC	TW1079, TW1061,390316, 228391, 641184			
	IC	4934E-1, 4934E-2			
VCCI		T-2205 for Telecommunication Test C-4663 for Conducted emission test R-3428, R-4218 for Radiated emission test G-812, G-813 for radiated disturbance above 1GHz			
Frequency Range Investigated:		Conducted: from 150kHz to 30 MHz Radiation: from 30 MHz to 25000MHz			
Test Distance:		The test distance of radiated emission from antenna to EUT is 3 M.			

2.6 Measurement Uncertainty

Measurement Item	Measurement Uncertainty	
Conducted Emission	±2.71 dB	
Rediction tost (10m) below 1CHz	Vertical: ±3.89 dB	
Radiation test (10m) below 1GHz	Horizontal: ±4.11 dB	
Dediction toot (2m) below 1CLIz	Vertical: ±4.11 dB	
Radiation test (3m) below 1GHz	Horizontal: ±4.10 dB	
20 dB Bandwidth	7500 Hz	
Maximum Peak Output Power	±1.4 dB	
100kHz Bandwidth of Frequency	- C C 4B	
Band Edges	±2.2 dB	
Power Spectral Density	±1.3870 dB	

Cerpass Technology Corp. Issued Date :Jul. 17, 2017

Page No. :8 of 111

3. Test Equipment and Ancillaries Used for Tests

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
Test Receiver	R&S	ESCI	100564	2017.02.14	2018.02.13
LISN	SCHWARZBEC K	NSLK 8127	8127748	2017.02.14	2018.02.13
LISN	SCHWARZBEC K	NSLK 8127	8127749	2017.02.14	2018.02.13
Pulse Limiter with 10dB Attenuation	SCHWARZBEC K	VTSD 9561-F	9561-F106	2017.02.14	2018.02.13
Temperature/ Humidity Meter	mingle	ETH529	N/A	2017.02.14	2018.02.13
AMPLIFIER	HP	8447F	3113A0591 5	2017.02.14	2018.02.13
Loop Antenna	R&S	HFH2-Z2	100150	2016.10.24	2017.10.23
BILOG Antenna	SCHAFFNER	CBL6112D	22241	2017.02.14	2018.02.13
Horn Antenna	Sunol	DRH-118	A072913	2016.10.12	2017.10.11
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	9170-347	2017.05.26	2018.05.25
Preamplifier	COM-POWER	PA-840	711885	2017.02.14	2018.02.13
Temp&Humidity& barometer	mingle	ETH529	N/A	2017.02.14	2018.02.13
Preamplifier	Fleld	AFS44-00101 800-25- 10P-44	1579008	2016.09.30	2017.09.29
ESG VECTOR SIGNAL GENERATOR	Agilent	E4438C	MY450925 82	2017.05.26	2018.05.25
MXG VECTOR SIGNAL GENERATOR	Agilent	N5182B	MY530501 27	2017.05.26	2018.05.25
EXA Signal Analyzer	Agilent	N9020A	US462202 90	2017.05.26	2018.05.25
Power sensor	e-channel	ERS-180T-24	TW545102 6	2017.05.26	2018.05.25
Series Power Meter	ANRITSU	ML24958A	1224005	2017.02.14	2018.02.13

Issued Date :Jul. 17, 2017

Report No.: DEFB1706063

Page No. : 9 of 111



4. Antenna Requirements

4.1 Standard Applicable

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.

4.2 Antenna Construction and Directional Gain

Antenna type: Ceramic Chip Antenna

Antenna Gain: 3.6dBi

Cerpass Technology Corp. Issued Date : Jul. 17, 2017

Page No. : 10 of 111

5. Test of Conducted Emission

5.1 Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 120 VAC power and return leads of the EUT according to the methods defined in ANSI C63.10. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 6.2.2. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions

Frequency (MHz)	Quasi Peak (dB µ V)	Average (dB µ V)
0.15 - 0.5	66-56*	56-46*
0.5 - 5.0	56	46
5.0 - 30.0	60	50

^{*}Decreases with the logarithm of the frequency.

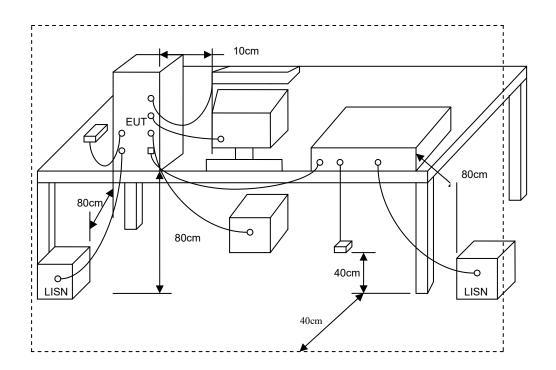
5.2 Test Procedures

- a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- c. All the support units are connecting to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 150 kHz to 30 MHz was searched.
- h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Cerpass Technology Corp. Issued Date : Jul. 17, 2017

Page No. : 11 of 111

5.3 Typical Test Setup



Cerpass Technology Corp. Issued Date : Jul. 17, 2017

Page No. : 12 of 111

5.4 Test Result and Data

Test Mode: Normal Link Phase: Line Temperature: 20°C 51% Humidity:

Pressur(mbar): 1002 Date: 2017/07/07



0.100		5.5		,	ū		55.55
No.	Frequency	Factor	Reading	Level	Limit	Margin	Detector
	(MHz)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dB)	
1	0.3700	9.96	25.30	35.26	58.50	-23.24	QP
2	0.3700	9.96	19.15	29.11	48.50	-19.39	AVG
3	0.6900	10.06	29.55	39.61	56.00	-16.39	QP
4	0.6900	10.06	24.34	34.40	46.00	-11.60	AVG
5	0.8300	10.10	29.01	39.11	56.00	-16.89	QP
6	0.8300	10.10	24.39	34.49	46.00	-11.51	AVG
7	1.2780	10.39	27.28	37.67	56.00	-18.33	QP
8	1.2780	10.39	21.26	31.65	46.00	-14.35	AVG
9	2.0140	11.06	24.56	35.62	56.00	-20.38	QP
10	2.0140	11.06	18.59	29.65	46.00	-16.35	AVG
11	25.3420	10.61	23.54	34.15	60.00	-25.85	QP
12	25.3420	10.61	17.50	28.11	50.00	-21.89	AVG

Note: Measurement Level = Reading Level + Correct Factor+ Attenuator

Cerpass Technology Corp.

Issued Date : Jul. 17, 2017 Page No. : 13 of 111

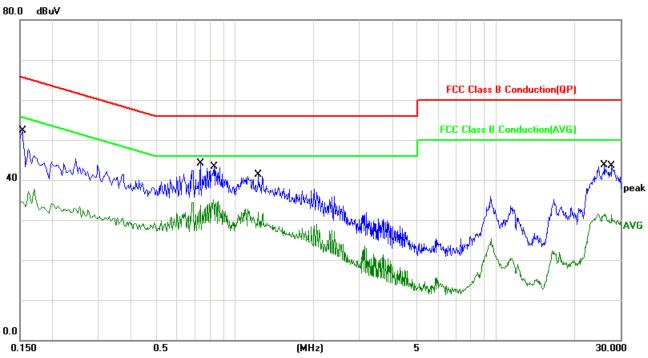


Test Mode: Normal Link Phase: Neutral

Report No.: DEFB1706063

Temperature: 20°C Humidity: 51%

Pressur(mbar): 1002 Date: 2017/07/07



No.	Frequency	Factor	Reading	Level	Limit	Margin	Detector
	(MHz)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dB)	
1	0.1539	10.06	28.81	38.87	65.78	-26.91	QP
2	0.1539	10.06	22.62	32.68	55.78	-23.10	AVG
3	0.7380	10.08	28.38	38.46	56.00	-17.54	QP
4	0.7380	10.08	23.52	33.60	46.00	-12.40	AVG
5	0.8340	10.10	27.08	37.18	56.00	-18.82	QP
6	0.8340	10.10	22.06	32.16	46.00	-13.84	AVG
7	1.2300	10.14	25.42	35.56	56.00	-20.44	QP
8	1.2300	10.14	20.42	30.56	46.00	-15.44	AVG
9	26.1259	10.61	26.53	37.14	60.00	-22.86	QP
10	26.1259	10.61	20.18	30.79	50.00	-19.21	AVG
11	27.8140	10.62	25.36	35.98	60.00	-24.02	QP
12	27.8140	10.62	18.37	28.99	50.00	-21.01	AVG

Note: Measurement Level = Reading Level + Correct Factor+ Attenuator

Cerpass Technology Corp. Issued Date :Jul. 17, 2017
Page No. :14 of 111

6. Test of Radiated Emission

6.1 Test Limit

Radiated emissions from 30 MHz to 25 GHz were measured according to the methods defines in ANSI C63.4-2014. The EUT was placed, 0.8 meter above the ground plane, as shown in section 5.6.3. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance Meters	Radiated (µ V / M)	Radiated (dB µ V/ M)
30-88	3	100	40.0
88-216	3	150	43.5
216-960	3	200	46.0
Above 960	3	500	54.0

For unintentional device, according to CISPR PUB.22, for Class B digital devices, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 10 meters shall not exceed the above table.

Frequency	Distance	Radiated
(MHz)	Meters	(dB µ V/ M)
30-230	10	30
230-1000	10	37

Cerpass Technology Corp. Issued Date : Jul. 17, 2017

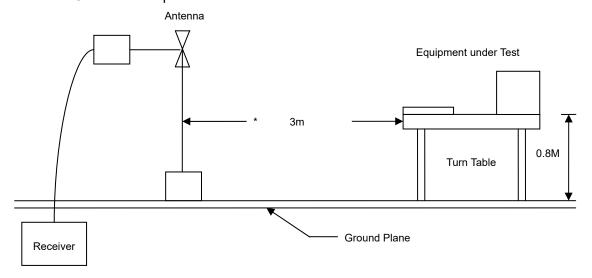
Page No. : 15 of 111

6.2 Test Procedures

- a. The EUT was placed on a rotatable table top 0.8 meter above ground; above 1GHz, the height was 1.5m.
- b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

6.3 Typical Test Setup

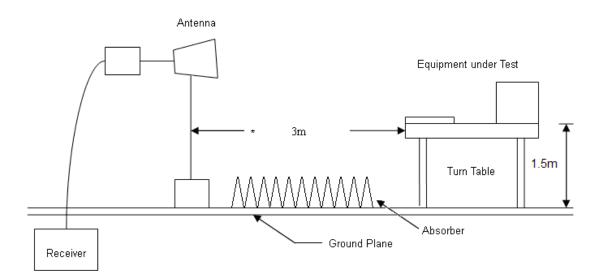
Below 1GHz Test Setup



Cerpass Technology Corp. Issued Date : Jul. 17, 2017

Page No. : 16 of 111

Above 1GHz Test Setup



Page No. : 17 of 111

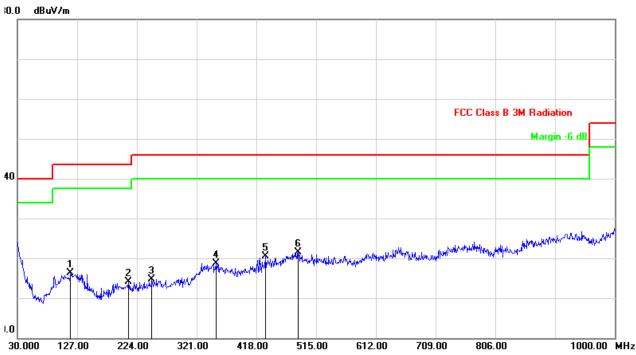
6.4 Test Result and Data (9kHz~30MHz)

The 9kHz-30MHz spurious emission is under limit 20dB more.

6.5 Test Result and Data (30MHz~1GHz)

6.5.1 Test Result and Data of Transmitter

Power	:	120V	Pol/Phase :	:	VERTICAL
Test Mode	:	Mode 1	Temperature :	:	18 °C
Test Date	:	Jul. 06, 2017	Humidity :	:	49 %
Memo	:	CH 00	Atmospheric Pressure :	:	1008 hpa



No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(deg)
1	116.3300	-8.18	24.56	16.38	43.50	-27.12	QP	100	13
2	210.4200	-9.51	23.67	14.16	43.50	-29.34	QP	200	102
3	248.2500	-8.53	23.28	14.75	46.00	-31.25	QP	100	227
4	352.0400	-4.26	22.93	18.67	46.00	-27.33	QP	100	345
5	432.5500	-4.53	25.00	20.47	46.00	-25.53	QP	100	0
6	485.9000	-1.47	22.88	21.41	46.00	-24.59	QP	100	76

Note: Level = Reading + Factor Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor

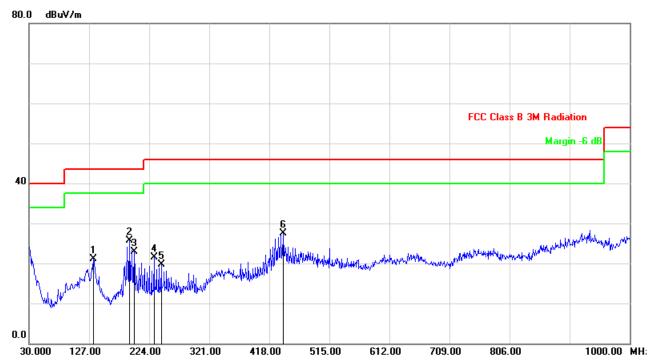
Cerpass Technology Corp. Issued Date : Jul. 17, 2017

Page No. : 18 of 111



Power	:	120V	Pol/Phase		HORIZONTAL
Test Mode		Mode 1	Temperature	:	18 °C
Test Date		Jul. 06, 2017	Humidity	:	49 %
Memo	:	CH 00	Atmospheric Pressure	:	1008 hpa

Report No.: DEFB1706063



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	133.7899	-9.38	30.46	21.08	43.50	-22.42	QP	200	214
2	191.9900	-10.15	35.86	25.71	43.50	-17.79	QP	100	33
3	199.7500	-9.65	32.60	22.95	43.50	-20.55	QP	200	68
4	231.7600	-9.47	30.92	21.45	46.00	-24.55	QP	400	109
5	243.4000	-8.88	28.64	19.76	46.00	-26.24	QP	300	214
6	440.3100	-4.00	31.52	27.52	46.00	-18.48	QP	100	12

Note: Level = Reading + Factor Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor

Issued Date : Jul. 17, 2017 Page No. : 19 of 111

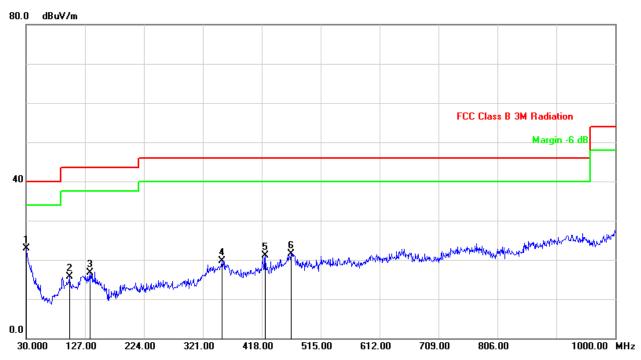
Cerpass Technology Corp.



6.5.2 Test Result and Data of receiver

Power	•	120V	Pol/Phase	:	VERTICAL
Test Mode		Mode 1	Temperature	:	18 °C
Test Date		Jul. 06, 2017	Humidity	:	49 %
Memo		CH 00	Atmospheric Pressure	:	1008 hpa

Report No.: DEFB1706063



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.0000	-3.01	25.99	22.98	40.00	-17.02	peak	100	105
2	101.7800	-9.46	25.13	15.67	43.50	-27.83	peak	200	247
3	135.7300	-9.68	26.33	16.65	43.50	-26.85	peak	100	118
4	352.0400	-4.26	23.92	19.66	46.00	-26.34	peak	100	312
5	423.8199	-4.82	25.87	21.05	46.00	-24.95	peak	100	116
6	466.5000	-1.98	23.56	21.58	46.00	-24.42	peak	200	349

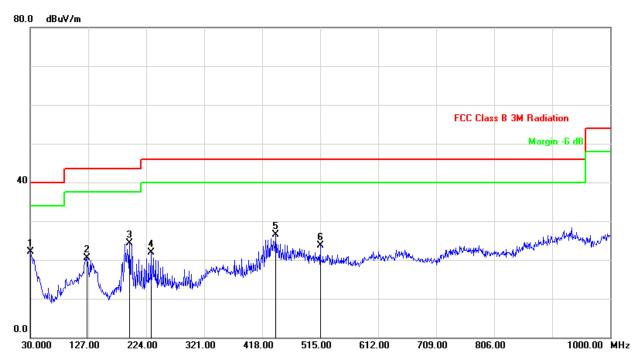
Note: Level = Reading + Factor Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor

Cerpass Technology Corp. Issued Date :Jul. 17, 2017
Page No. :20 of 111



Power	:	120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1	Temperature	:	18 °C
Test Date	:	Jul. 06, 2017	Humidity	:	49 %
Memo	:	CH 00	Atmospheric Pressure	:	1008 hpa



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.0000	-3.01	25.10	22.09	40.00	-17.91	peak	100	134
2	125.0600	-8.36	28.85	20.49	43.50	-23.01	peak	200	125
3	195.8700	-9.90	34.13	24.23	43.50	-19.27	peak	100	67
4	231.7600	-9.47	31.42	21.95	46.00	-24.05	peak	200	318
5	440.3100	-4.00	30.52	26.52	46.00	-19.48	peak	300	105
6	515.0000	-2.55	26.18	23.63	46.00	-22.37	peak	100	12

Note: Level = Reading + Factor Margin = Level – Limit

Cerpass Technology Corp.

Factor = Antenna Factor + Cable Loss - Amplifier Factor

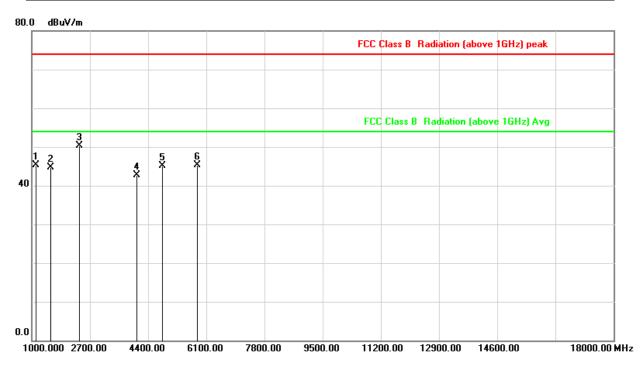
Issued Date : Jul. 17, 2017

Page No. :21 of 111

6.6 Test Result and Data (1GHz~25GHz)

6.6.1 Test Result and Data of Transmitter

Power :	120V	Pol/Phase :	HORIZONTAL
Test Mode :	Mode 1	Temperature :	25 °C
Test Date :	Jul. 06, 2017	Humidity :	52 %
Memo :	CH 00	Atmospheric Pressure :	1010 hpa



No.	Frequency	Factor	Reading	Level	Limit	Margin	Detector
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1127.500	-11.01	56.22	45.21	74.00	-28.79	peak
2	1552.500	-7.31	51.94	44.63	74.00	-29.37	peak
3	2402.500	-3.00	53.24	50.24	74.00	-23.76	peak
4	4060.000	5.42	37.21	42.63	74.00	-31.37	peak
5	4825.000	8.27	36.89	45.16	74.00	-28.84	peak
6	5845.000	9.88	35.46	45.34	74.00	-28.66	peak

Note: Level = Reading + Factor Margin = Level - Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor

Issued Date : Jul. 17, 2017 Cerpass Technology Corp. Page No. : 22 of 111

Power :	120V	Pol/Phase :	VERTICAL
Test Mode :	Mode 1	Temperature :	25 °C
Test Date :	Jul. 06, 2017	Humidity :	52 %
Memo :	CH 00	Atmospheric Pressure :	1010 hpa

Report No.: DEFB1706063

				FCCC	lass B	Radiation	(above	1GHz) peak	
4				FCC	Class B	Radiatio	ın (above	e 1GHz) Avg	
×	5 X	6							
	*	* 5x			4 X	4 X	4 X	* F	

No.	Frequency	Factor	Reading	Level	Limit	Margin	Detector
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1127.500	-11.01	58.58	47.57	74.00	-26.43	peak
2	1552.500	-7.31	52.82	45.51	74.00	-28.49	peak
3	1935.000	-5.10	48.97	43.87	74.00	-30.13	peak
4	2402.500	-3.00	53.88	50.88	74.00	-23.12	peak
5	4825.000	8.27	38.74	47.01	74.00	-26.99	peak
6	5802.500	9.77	35.90	45.67	74.00	-28.33	peak

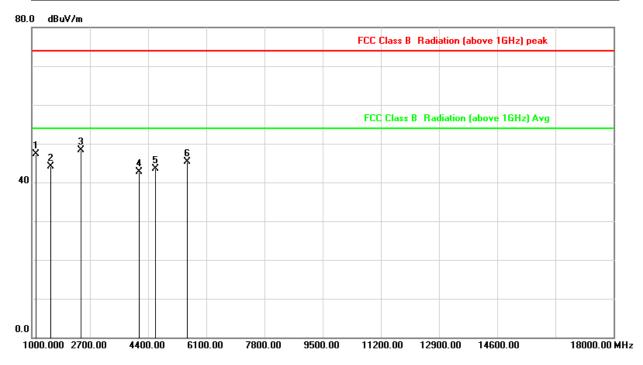
Note: Level = Reading + Factor Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor

Cerpass Technology Corp.Issued Date:Jul. 17, 2017Page No.:23 of 111

ERPASS TECHNOLOGY CORP.	Report No.: DEFB1706063

Power :	120V	Pol/Phase :	HORIZONTAL
Test Mode :	Mode 1	Temperature :	25 °C
Test Date :	Jul. 06, 2017	Humidity :	52 %
Memo :	CH 39	Atmospheric Pressure :	1010 hpa



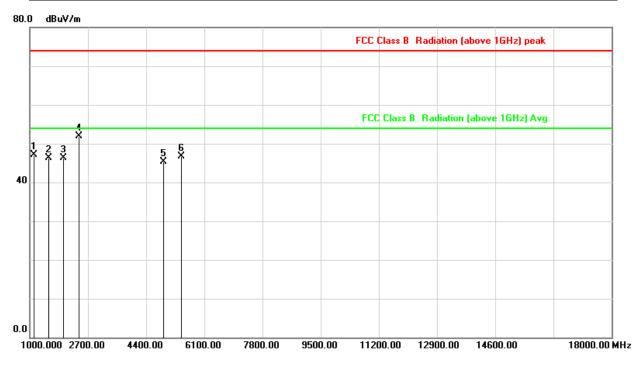
No.	Frequency	Factor	Reading	Level	Limit	Margin	Detector
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1127.500	-11.01	58.27	47.26	74.00	-26.74	peak
2	1552.500	-7.31	51.42	44.11	74.00	-29.89	peak
3	2445.000	-2.82	51.04	48.22	74.00	-25.78	peak
4	4145.000	5.85	36.76	42.61	74.00	-31.39	peak
5	4612.500	7.87	35.60	43.47	74.00	-30.53	peak
6	5547.500	9.14	36.08	45.22	74.00	-28.78	peak

Factor= Antenna Factor + Cable Loss - Amplifier Factor

Cerpass Technology Corp.Issued Date :Jul. 17, 2017Page No. :24 of 111

CERPASS TECHNOLOGY CORP.	Report No.: DEFB1706063

Power :	120V	Pol/Phase :	VERTICAL
Test Mode :	Mode 1	Temperature :	25 °C
Test Date :	Jul. 06, 2017	Humidity :	52 %
Memo :	CH 39	Atmospheric Pressure :	1010 hpa



No.	Frequency	Factor	Reading	Level	Limit	Margin	Detector
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1127.500	-11.01	58.21	47.20	74.00	-26.80	peak
2	1552.500	-7.31	53.57	46.26	74.00	-27.74	peak
3	1977.500	-4.86	51.12	46.26	74.00	-27.74	peak
4	2445.000	-2.82	54.73	51.91	74.00	-22.09	peak
5	4910.000	8.43	36.95	45.38	74.00	-28.62	peak
6	5420.000	8.95	37.85	46.80	74.00	-27.20	peak

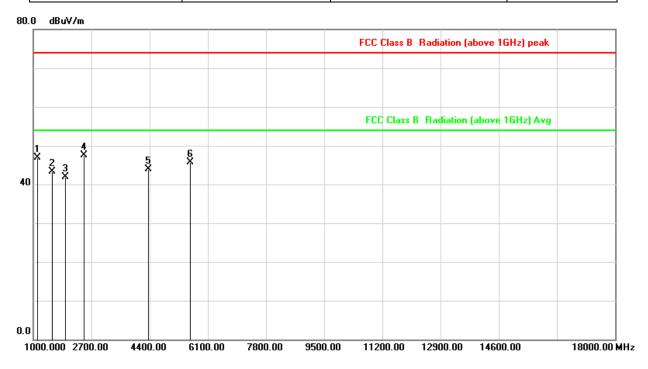
Factor= Antenna Factor + Cable Loss - Amplifier Factor

Cerpass Technology Corp. Issued Date : Jul. 17, 2017

Page No. : 25 of 111

Power	:	120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1	Temperature	:	25 °C
Test Date	:	Jul. 06, 2017	Humidity	:	52 %
Memo	:	CH 78	Atmospheric Pressure	:	1010 hpa

Report No.: DEFB1706063



No.	Frequency	Factor	Reading	Level	Limit	Margin	Detector
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1127.500	-11.01	57.98	46.97	74.00	-27.03	peak
2	1552.500	-7.31	50.52	43.21	74.00	-30.79	peak
3	1935.000	-5.10	46.94	41.84	74.00	-32.16	peak
4	2487.500	-2.63	50.11	47.48	74.00	-26.52	peak
5	4357.500	6.93	36.94	43.87	74.00	-30.13	peak
6	5590.000	9.24	36.53	45.77	74.00	-28.23	peak

Note: Level = Reading + Factor Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor

Cerpass Technology Corp.Issued Date: Jul. 17, 2017Page No.: 26 of 111

Power	:	120V	Pol/Phase	:	VERTICAL
Test Mode		Mode 1	Temperature	:	25 °C
Test Date		Jul. 06, 2017	Humidity	:	52 %
Memo	:	CH 78	Atmospheric Pressure	:	1010 hpa

								FCC (Class B	Radi	ation (above	1GHz) peak	
								FCC	Class I	R Ray	diation (above	1GHz) Ava	
,	ž							100	Cidss	, 114	nation (above	runzj Avg	
			4	5 Å									
		3 ×	Ť	5 \$	•								
		- 1	I	1 1									

No.	Frequency	Factor	Reading	Level	Limit	Margin	Detector
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1127.500	-11.01	61.78	50.77	74.00	-23.23	peak
2	2487.500	-2.63	54.25	51.62	74.00	-22.38	peak
3	3932.500	4.88	36.44	41.32	74.00	-32.68	peak
4	4400.000	7.15	36.90	44.05	74.00	-29.95	peak
5	5250.000	8.81	35.23	44.04	74.00	-29.96	peak
6	5930.000	10.09	35.29	45.38	74.00	-28.62	peak

Cerpass Technology Corp.

Factor= Antenna Factor + Cable Loss - Amplifier Factor

Issued Date : Jul. 17, 2017

Power :	120V	Pol/Phase :	HORIZONTAL
Test Mode :	Mode 2	Temperature :	25 °C
Test Date :	Jul. 06, 2017	Humidity :	52 %
Memo :	CH 00	Atmospheric Pressure :	1010 hpa

					FCC	Class B	Radia	tion (above	1GHz) peak	
					FC	Class E	Radi	iation (above	a 1GHz) Avg	
ı X	2 X	3 *	5 6 X							

No.	Frequency	Factor	Reading	Level	Limit	Margin	Detector
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1127.500	-11.01	55.72	44.71	74.00	-29.29	peak
2	2402.500	-3.00	50.74	47.74	74.00	-26.26	peak
3	3677.500	4.01	36.95	40.96	74.00	-33.04	peak
4	4570.000	7.79	35.75	43.54	74.00	-30.46	peak
5	6015.000	10.27	35.81	46.08	74.00	-27.92	peak
6	6610.000	10.82	34.44	45.26	74.00	-28.74	peak

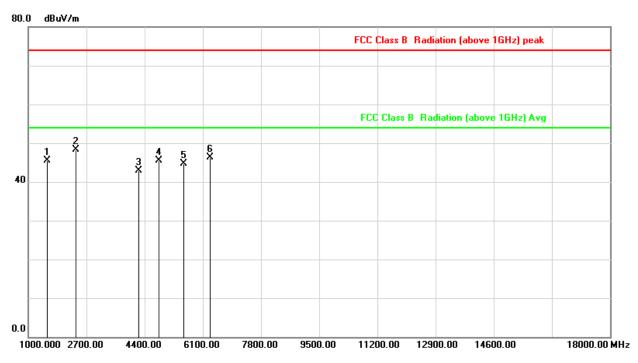
Cerpass Technology Corp.

Factor= Antenna Factor + Cable Loss - Amplifier Factor

Issued Date : Jul. 17, 2017

Page No. : 28 of 111

Power	:	120V	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 2	Temperature		25 °C
Test Date	:	Jul. 06, 2017	Humidity	:	52 %
Memo	:	CH 00	Atmospheric Pressure		1010 hpa



No.	Frequency	Factor	Reading	Level	Limit	Margin	Detector
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1552.500	-7.31	52.82	45.51	74.00	-28.49	peak
2	2402.500	-3.00	51.38	48.38	74.00	-25.62	peak
3	4230.000	6.28	36.72	43.00	74.00	-31.00	peak
4	4825.000	8.27	37.24	45.51	74.00	-28.49	peak
5	5547.500	9.14	35.63	44.77	74.00	-29.23	peak
6	6312.500	10.38	36.00	46.38	74.00	-27.62	peak

Factor= Antenna Factor + Cable Loss - Amplifier Factor

Cerpass Technology Corp. Issued Date : Jul. 17, 2017

Page No. : 29 of 111

Power :	120V	Pol/Phase :	HORIZONTAL
Test Mode :	Mode 2	Temperature :	25 °C
Test Date :	Jul. 06, 2017	Humidity :	52 %
Memo :	CH 39	Atmospheric Pressure :	1010 hpa

						FCC	Class B	Radi	ation (above	1GHz) peak	
						FC	Class	B Rad	diation (above	a 1GHz) Avg	
ļ ķ	2	3	4	5 K	1						

No.	Frequency	Factor	Reading	Level	Limit	Margin	Detector
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1127.500	-11.01	56.27	45.26	74.00	-28.74	peak
2	2445.000	-2.82	49.04	46.22	74.00	-27.78	peak
3	4315.000	6.72	37.30	44.02	74.00	-29.98	peak
4	5335.000	8.88	36.15	45.03	74.00	-28.97	peak
5	6312.500	10.38	36.84	47.22	74.00	-26.78	peak
6	6737.500	11.23	36.40	47.63	74.00	-26.37	peak

Factor= Antenna Factor + Cable Loss - Amplifier Factor

Issued Date : Jul. 17, 2017 Cerpass Technology Corp.

Page No. :30 of 111

Power :	120V	Pol/Phase :	VERTICAL
Test Mode :	Mode 2	Temperature :	25 °C
Test Date :	Jul. 06, 2017	Humidity :	52 %
Memo :	CH 39	Atmospheric Pressure :	1010 hpa

Report No.: DEFB1706063

					FCC C	lass B	Radiation (a	bove 1GHz) peak	
					FCC	Class B	Radiation (above 1GHz) Avg	
k	2	3 4	5 6 4 7						

No.	Frequency	Factor	Reading	Level	Limit	Margin	Detector
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1127.500	-11.01	58.21	47.20	74.00	-26.80	peak
2	2445.000	-2.82	51.73	48.91	74.00	-25.09	peak
3	4612.500	7.87	35.98	43.85	74.00	-30.15	peak
4	5165.000	8.74	34.95	43.69	74.00	-30.31	peak
5	5802.500	9.77	35.87	45.64	74.00	-28.36	peak
6	6355.000	10.40	36.16	46.56	74.00	-27.44	peak

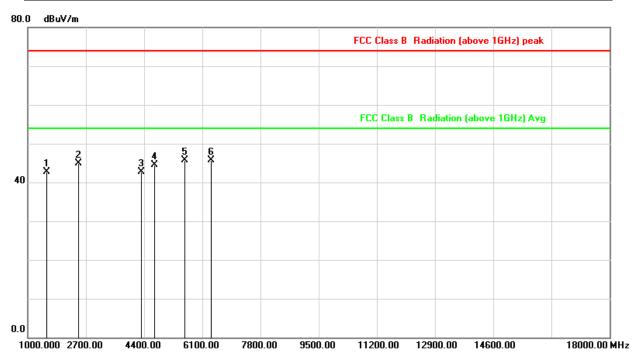
Note: Level = Reading + Factor Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor

Cerpass Technology Corp. Issued Date :Jul. 17, 2017
Page No. :31 of 111

ERPASS TECHNOLOGY CORP.	Report No.: DEFB1706063

Power :	120V	Pol/Phase :	HORIZONTAL
Test Mode :	Mode 2	Temperature :	25 °C
Test Date :	Jul. 06, 2017	Humidity :	52 %
Memo :	CH 78	Atmospheric Pressure :	1010 hpa



No.	Frequency	Factor	Reading	Level	Limit	Margin	Detector
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1552.500	-7.31	50.02	42.71	74.00	-31.29	peak
2	2487.500	-2.63	47.61	44.98	74.00	-29.02	peak
3	4315.000	6.72	35.91	42.63	74.00	-31.37	peak
4	4697.500	8.03	36.53	44.56	74.00	-29.44	peak
5	5590.000	9.24	36.53	45.77	74.00	-28.23	peak
6	6355.000	10.40	35.22	45.62	74.00	-28.38	peak

Factor = Antenna Factor + Cable Loss - Amplifier Factor

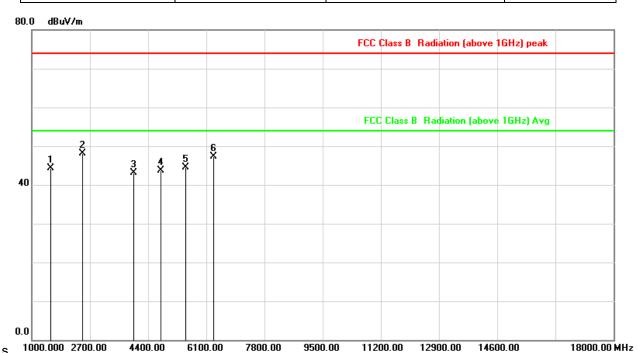
Cerpass Technology Corp. Issued Date : Jul. 17, 2017

Page No. :32 of 111



Power :	120V	Pol/Phase :	VERTICAL
Test Mode :	Mode 2	Temperature :	25 °C
Test Date :	Jul. 06, 2017	Humidity :	52 %
Memo :	CH 78	Atmospheric Pressure :	1010 hpa

Report No.: DEFB1706063



No.	Frequency	Factor	Reading	Level	Limit	Margin	Detector
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1552.500	-7.31	51.62	44.31	74.00	-29.69	peak
2	2487.500	-2.63	50.75	48.12	74.00	-25.88	peak
3	3975.000	5.02	38.00	43.02	74.00	-30.98	peak
4	4782.500	8.19	35.51	43.70	74.00	-30.30	peak
5	5505.000	9.03	35.53	44.56	74.00	-29.44	peak
6	6312.500	10.38	36.84	47.22	74.00	-26.78	peak

Note: Level = Reading + Factor Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor

Cerpass Technology Corp. Issued Date :Jul. 17, 2017
Page No. :33 of 111

Power :	120V	Pol/Phase :	HORIZONTAL
Test Mode :	Mode 3	Temperature :	25 °C
Test Date :	Jul. 06, 2017	Humidity :	52 %
Memo :	CH 00	Atmospheric Pressure :	1010 hpa

) dBu\						FCC C	Class B F	ładiation (a	bove 1GHz) peak	
						FCC	Class B	Radiation	(above 1GHz) Avg	
{	Ž	3 *	5 8							
	2700.00	4400.00	6100.00	7800.00	9500.00	1120		12900.00	14600.00	18000.0

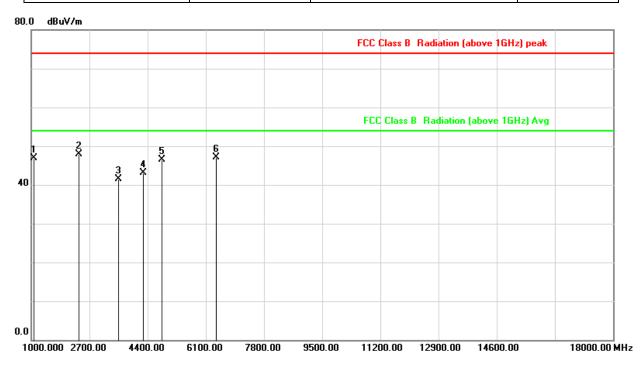
No.	Frequency	Factor	Reading	Level	Limit	Margin	Detector
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1085.000	-11.39	55.35	43.96	74.00	-30.04	peak
2	2402.500	-3.00	51.24	48.24	74.00	-25.76	peak
3	4655.000	7.95	36.10	44.05	74.00	-29.95	peak
4	5037.500	8.63	36.40	45.03	74.00	-28.97	peak
5	5462.500	8.99	35.29	44.28	74.00	-29.72	peak
6	5887.500	9.98	35.62	45.60	74.00	-28.40	peak

Cerpass Technology Corp.

Factor= Antenna Factor + Cable Loss - Amplifier Factor

Issued Date : Jul. 17, 2017 Page No. : 34 of 111

Power	:	120V	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 3	Temperature		25 °C
Test Date	:	Jul. 06, 2017	Humidity	:	52 %
Memo	:	CH 00	Atmospheric Pressure	:	1010 hpa



No.	Frequency	Factor	Reading	Level	Limit	Margin	Detector
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1085.000	-11.39	58.31	46.92	74.00	-27.08	peak
2	2402.500	-3.00	50.88	47.88	74.00	-26.12	peak
3	3550.000	3.57	37.90	41.47	74.00	-32.53	peak
4	4272.500	6.50	36.68	43.18	74.00	-30.82	peak
5	4825.000	8.27	38.24	46.51	74.00	-27.49	peak
6	6397.500	10.42	36.60	47.02	74.00	-26.98	peak

Factor= Antenna Factor + Cable Loss - Amplifier Factor

Cerpass Technology Corp. Issued Date : Jul. 17, 2017

Page No. : 35 of 111

Power	:	120V	Pol/Phase	:	HORIZONTAL
Test Mode	• •	Mode 3	Temperature		25 °C
Test Date	:	Jul. 06, 2017	Humidity		52 %
Memo	:	CH 39	Atmospheric Pressure	:	1010 hpa

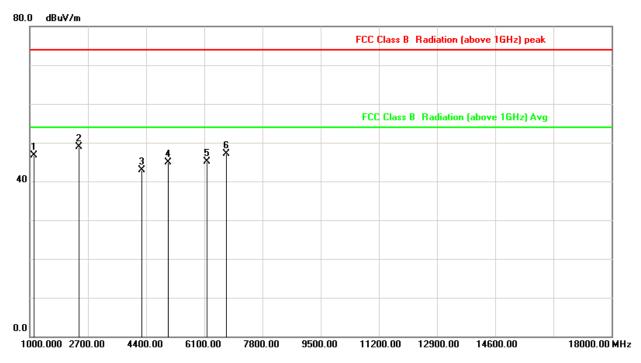
			FCC	Class B R	adiation (above	1GHz) peak	
			FC	C Class B	Radiation (above	e 1GHz) Avg	
1		4 5 ×					
*	2 × ×						

No.	Frequency	Factor	Reading	Level	Limit	Margin	Detector
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1297.500	-9.46	54.55	45.09	74.00	-28.91	peak
2	4017.500	5.20	35.68	40.88	74.00	-33.12	peak
3	4442.500	7.37	36.34	43.71	74.00	-30.29	peak
4	5207.500	8.77	35.69	44.46	74.00	-29.54	peak
5	5802.500	9.77	35.45	45.22	74.00	-28.78	peak
6	6780.000	11.37	36.72	48.09	74.00	-25.91	peak

Factor= Antenna Factor + Cable Loss - Amplifier Factor

Issued Date : Jul. 17, 2017 Page No. : 36 of 111

Power	:	120V	Pol/Phase :	VERTICAL
Test Mode	:	Mode 3	Temperature :	25 °C
Test Date	:	Jul. 06, 2017	Humidity :	52 %
Memo	:	CH 39	Atmospheric Pressure :	1010 hpa



No.	Frequency	Factor	Reading	Level	Limit	Margin	Detector
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1127.500	-11.01	57.71	46.70	74.00	-27.30	peak
2	2445.000	-2.82	51.73	48.91	74.00	-25.09	peak
3	4272.500	6.50	36.39	42.89	74.00	-31.11	peak
4	5037.500	8.63	36.33	44.96	74.00	-29.04	peak
5	6185.000	10.33	34.84	45.17	74.00	-28.83	peak
6	6737.500	11.23	35.82	47.05	74.00	-26.95	peak

Note: Level = Reading + Factor Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor

Cerpass Technology Corp. Issued Date : Jul. 17, 2017

Page No. :37 of 111

Power	:	120V	Pol/Phase :	HORIZONTAL
Test Mode	:	Mode 3	Temperature :	25 °C
Test Date		Jul. 06, 2017	Humidity :	52 %
Memo		CH 78	Atmospheric Pressure :	1010 hpa

Report No.: DEFB1706063

							FC	C Class	B Ra	diation (above	1GHz) peak	
							F	CC Clas	s BR	adiation (above	e 1GHz) Avg	
k K	2	3	*	5 X	6 X							

No.	Frequency	Factor	Reading	Level	Limit	Margin	Detector
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1085.000	-11.39	54.85	43.46	74.00	-30.54	peak
2	2487.500	-2.63	49.11	46.48	74.00	-27.52	peak
3	4230.000	6.28	37.48	43.76	74.00	-30.24	peak
4	4825.000	8.27	36.15	44.42	74.00	-29.58	peak
5	5845.000	9.88	35.21	45.09	74.00	-28.91	peak
6	6652.500	10.95	34.80	45.75	74.00	-28.25	peak

Note: Level = Reading + Factor Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor

Cerpass Technology Corp.Issued Date: Jul. 17, 2017Page No.:38 of 111

Power :	120V	Pol/Phase :	VERTICAL
Test Mode :	Mode 3	Temperature :	25 °C
Test Date :	Jul. 06, 2017	Humidity :	52 %
Memo :	CH 78	Atmospheric Pressure :	1010 hpa

				FCC (Class B	Radiati	on (above	IGHz) peak	
				FCC	Class E	Radia	tion (above	: 1GHz) Avg	
, 2 X	3 4	5 6 X							

No.	Frequency	Factor	Reading	Level	Limit	Margin	Detector
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1127.500	-11.01	55.78	44.77	74.00	-29.23	peak
2	2487.500	-2.63	49.25	46.62	74.00	-27.38	peak
3	4400.000	7.15	36.90	44.05	74.00	-29.95	peak
4	5165.000	8.74	36.31	45.05	74.00	-28.95	peak
5	6015.000	10.27	35.71	45.98	74.00	-28.02	peak
6	6397.500	10.42	36.78	47.20	74.00	-26.80	peak

Note: Level = Reading + Factor Margin = Level – Limit

s

Factor = Antenna Factor + Cable Loss - Amplifier Factor

Cerpass Technology Corp. Issued Date : Jul. 17, 2017

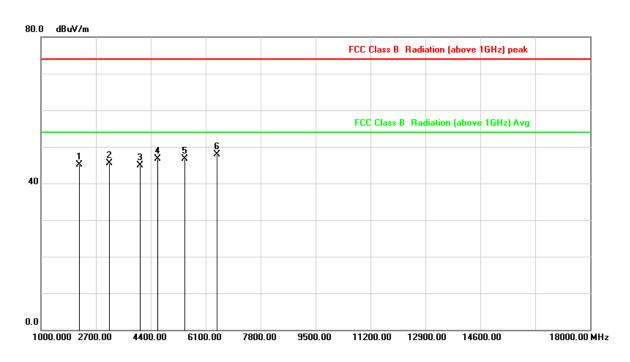
Page No. : 39 of 111



6.6.2 Test Result and Data of receiver

Power	:	120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1	Temperature	:	18 °C
Test Date	:	Jul. 06, 2017	Humidity	:	49 %
Memo	:	CH 00	Atmospheric Pressure	:	1008 hpa

Report No.: DEFB1706063



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2190.000	-3.91	49.01	45.10	74.00	-28.90	peak
2	3125.000	1.43	44.08	45.51	74.00	-28.49	peak
3	4060.000	5.42	39.43	44.85	74.00	-29.15	peak
4	4612.500	7.87	38.80	46.67	74.00	-27.33	peak
5	5462.500	8.99	37.75	46.74	74.00	-27.26	peak
6	6440.000	10.44	37.56	48.00	74.00	-26.00	peak

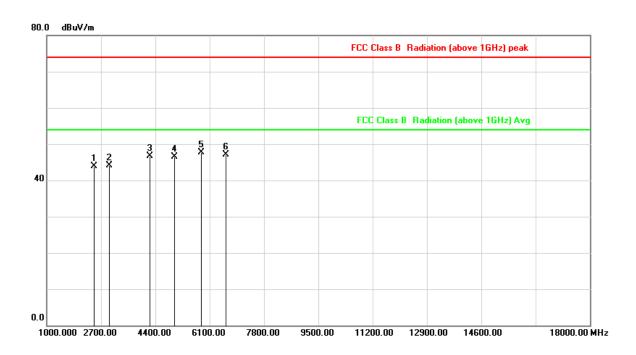
Note: Level = Reading + Factor Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor

Cerpass Technology Corp. Issued Date :Jul. 17, 2017
Page No. :40 of 111

Power	:	120V	Pol/Phase	:	VERTICAL
Test Mode	•••	Mode 1	Temperature	:	18 °C
Test Date		Jul. 06, 2017	Humidity	:	49 %
Memo		CH 00	Atmospheric Pressure	:	1008 hpa

Report No.: DEFB1706063



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2487.500	-2.63	46.58	43.95	74.00	-30.05	peak
2	2955.000	0.47	43.66	44.13	74.00	-29.87	peak
3	4230.000	6.28	40.34	46.62	74.00	-27.38	peak
4	4995.000	8.59	37.95	46.54	74.00	-27.46	peak
5	5845.000	9.88	37.85	47.73	74.00	-26.27	peak
6	6610.000	10.82	36.23	47.05	74.00	-26.95	peak

Note: Level = Reading + Factor Margin = Level – Limit

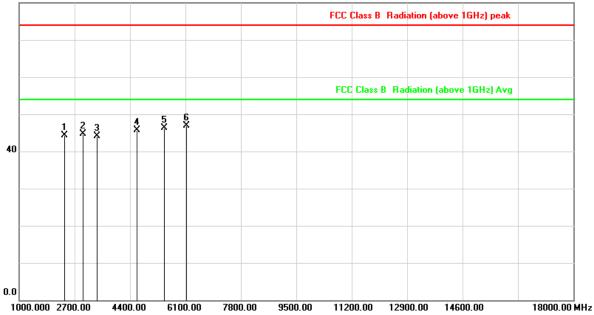
Factor = Antenna Factor + Cable Loss - Amplifier Factor

Cerpass Technology Corp. Issued Date :Jul. 17, 2017
Page No. :41 of 111

ERPASS TECHNOLOGY CORP.	Report No.: DEFB1706063
-------------------------	-------------------------

Power	:	120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1	Temperature	:	18 °C
Test Date	:	Jul. 06, 2017	Humidity	:	49 %
Memo	:	CH 39	Atmospheric Pressure	:	1008 hpa





No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2402.500	-3.00	47.25	44.25	74.00	-29.75	peak
2	2955.000	0.47	44.17	44.64	74.00	-29.36	peak
3	3380.000	2.77	41.40	44.17	74.00	-29.83	peak
4	4612.500	7.87	37.80	45.67	74.00	-28.33	peak
5	5462.500	8.99	37.25	46.24	74.00	-27.76	peak
6	6142.500	10.32	36.59	46.91	74.00	-27.09	peak

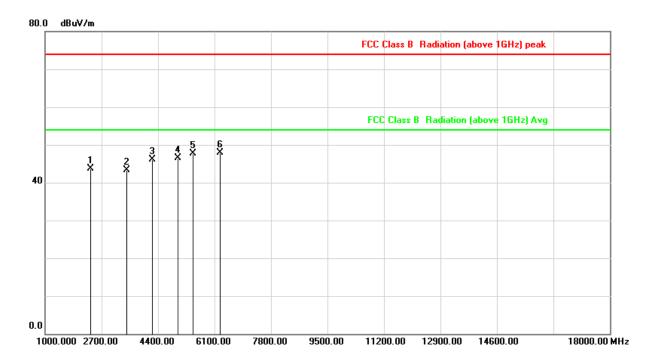
Note: Level = Reading + Factor Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor

Cerpass Technology Corp.Issued Date: Jul. 17, 2017Page No.:42 of 111

Power	:	120V	Pol/Phase	:	VERTICAL
Test Mode	•••	Mode 1	Temperature	:	18 °C
Test Date		Jul. 06, 2017	Humidity	:	49 %
Memo		CH 39	Atmospheric Pressure	:	1008 hpa

Report No.: DEFB1706063



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2360.000	-3.18	46.96	43.78	74.00	-30.22	peak
2	3465.000	3.22	40.16	43.38	74.00	-30.62	peak
3	4230.000	6.28	39.84	46.12	74.00	-27.88	peak
4	4995.000	8.59	37.95	46.54	74.00	-27.46	peak
5	5462.500	8.99	38.75	47.74	74.00	-26.26	peak
6	6270.000	10.37	37.45	47.82	74.00	-26.18	peak

Note: Level = Reading + Factor Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor

Cerpass Technology Corp.Issued Date : Jul. 17, 2017Page No. : 43 of 111

Power	:	120V	Pol/Phase	:	HORIZONTAL
Test Mode		Mode 1	Temperature	:	18 °C
Test Date		Jul. 06, 2017	Humidity	:	49 %
Memo	:	CH 78	Atmospheric Pressure	:	1008 hpa

						FCC	Class B	Radia	ation (above	(GHz) peak	
						FC	C Class I	B Rad	liation (above	1GHz) Avg	
*	2 X	3 X	4 5 * *	\$ *							

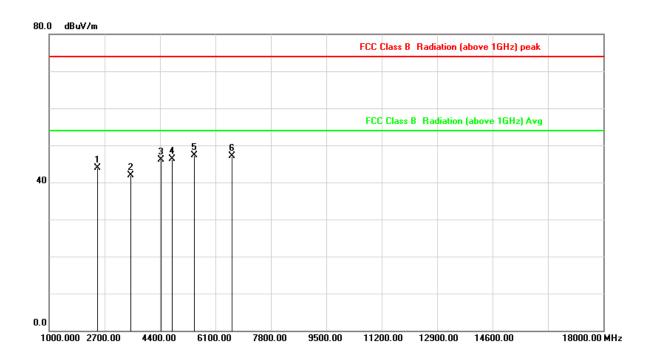
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2317.500	-3.36	47.34	43.98	74.00	-30.02	peak
2	3592.500	3.72	40.76	44.48	74.00	-29.52	peak
3	4187.500	6.07	38.20	44.27	74.00	-29.73	peak
4	4995.000	8.59	36.95	45.54	74.00	-28.46	peak
5	5462.500	8.99	37.25	46.24	74.00	-27.76	peak
6	6440.000	10.44	36.56	47.00	74.00	-27.00	peak

Note: Level = Reading + Factor Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor

Cerpass Technology Corp.Issued Date:Jul. 17, 2017Page No.:44 of 111

Power	:	120V	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1	Temperature	:	18 °C
Test Date	:	Jul. 06, 2017	Humidity	:	49 %
Memo		CH 78	Atmospheric Pressure		1008 hna



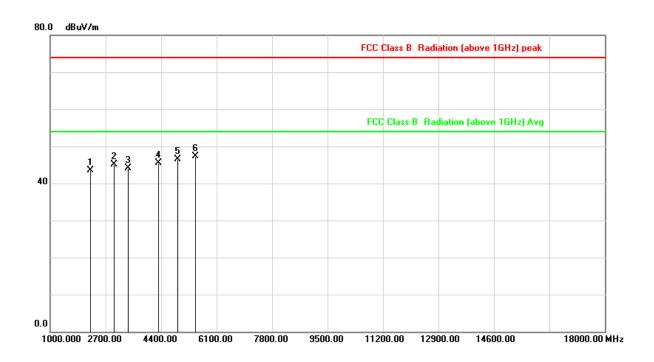
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2487.500	-2.63	46.58	43.95	74.00	-30.05	peak
2	3507.500	3.43	38.53	41.96	74.00	-32.04	peak
3	4442.500	7.37	38.65	46.02	74.00	-27.98	peak
4	4782.500	8.19	38.04	46.23	74.00	-27.77	peak
5	5462.500	8.99	38.25	47.24	74.00	-26.76	peak
6	6610.000	10.82	36.23	47.05	74.00	-26.95	peak

Note: Level = Reading + Factor Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor

Cerpass Technology Corp. Issued Date :Jul. 17, 2017
Page No. :45 of 111

Power	:	120V	Pol/Phase	:	HORIZONTAL
Test Mode		Mode 2	Temperature	:	18 °C
Test Date		Jul. 06, 2017	Humidity	:	49 %
Memo	:	CH 00	Atmospheric Pressure	:	1008 hpa



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2232.500	-3.73	47.32	43.59	74.00	-30.41	peak
2	2955.000	0.47	44.67	45.14	74.00	-28.86	peak
3	3380.000	2.77	41.40	44.17	74.00	-29.83	peak
4	4315.000	6.72	38.88	45.60	74.00	-28.40	peak
5	4910.000	8.43	38.15	46.58	74.00	-27.42	peak
6	5462.500	8.99	38.25	47.24	74.00	-26.76	peak

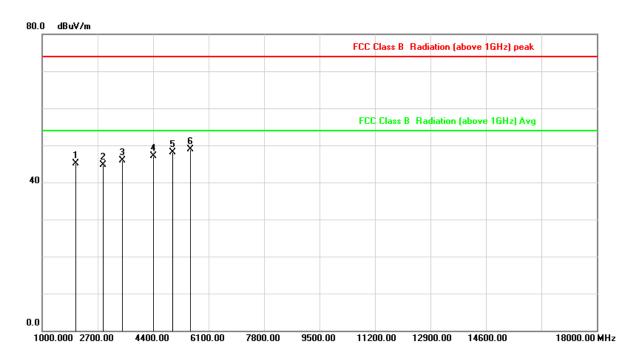
Note: Level = Reading + Factor Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor

Cerpass Technology Corp. Issued Date :Jul. 17, 2017
Page No. :46 of 111

CERPASS TECHNOLOGY CORP	
. FPD//// IEC BN() ()(-4 ())PC	•

Power	:	120V	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 2	Temperature	:	18 °C
Test Date	:	Jul. 06, 2017	Humidity	:	49 %
Memo	:	CH 00	Atmospheric Pressure	:	1008 hpa



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2020.000	-4.64	49.80	45.16	74.00	-28.84	peak
2	2870.000	-0.10	44.88	44.78	74.00	-29.22	peak
3	3465.000	3.22	42.66	45.88	74.00	-28.12	peak
4	4400.000	7.15	39.94	47.09	74.00	-26.91	peak
5	4995.000	8.59	39.45	48.04	74.00	-25.96	peak
6	5547.500	9.14	39.85	48.99	74.00	-25.01	peak

Note: Level = Reading + Factor Margin = Level – Limit

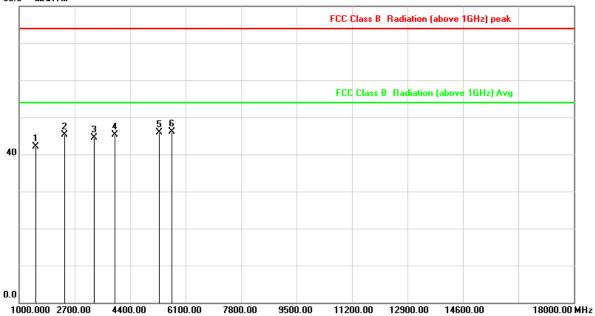
Factor = Antenna Factor + Cable Loss - Amplifier Factor

Cerpass Technology Corp. Issued Date :Jul. 17, 2017
Page No. :47 of 111

ERPASS TECHNOLOGY CORP.	Report No.: DEFB1706063
-------------------------	-------------------------

Power	:	120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 2	Temperature	:	18 °C
Test Date	:	Jul. 06, 2017	Humidity	:	49 %
Memo	:	CH 39	Atmospheric Pressure	:	1008 hpa





No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1510.000	-7.55	49.68	42.13	74.00	-31.87	peak
2	2402.500	-3.00	48.25	45.25	74.00	-28.75	peak
3	3295.000	2.32	42.18	44.50	74.00	-29.50	peak
4	3932.500	4.88	40.46	45.34	74.00	-28.66	peak
5	5292.500	8.85	37.00	45.85	74.00	-28.15	peak
6	5675.000	9.45	36.68	46.13	74.00	-27.87	peak

Note: Level = Reading + Factor Margin = Level – Limit

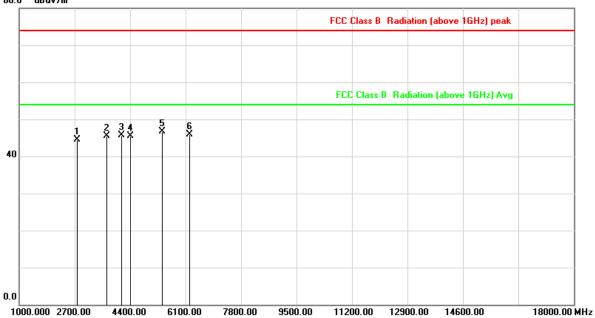
Factor = Antenna Factor + Cable Loss - Amplifier Factor

Issued Date : Jul. 17, 2017 Cerpass Technology Corp. Page No. :48 of 111

ERPASS TECHNOLOGY CORP.	Report No.: DEFB1706063
-------------------------	-------------------------

Power	:	120V	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 2	Temperature	:	18 °C
Test Date	:	Jul. 06, 2017	Humidity	:	49 %
Memo	:	CH 39	Atmospheric Pressure	:	1008 hpa





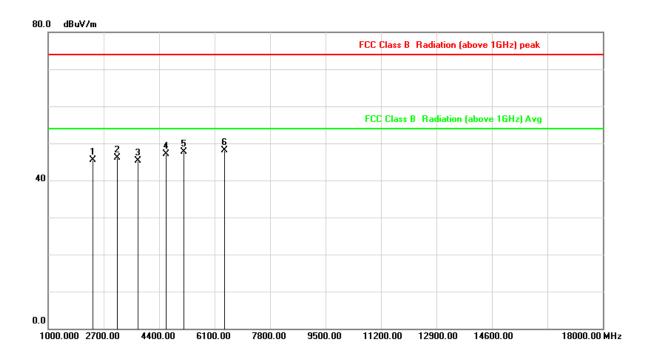
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2785.000	-0.67	45.21	44.54	74.00	-29.46	peak
2	3677.500	4.01	41.52	45.53	74.00	-28.47	peak
3	4145.000	5.85	39.84	45.69	74.00	-28.31	peak
4	4400.000	7.15	38.44	45.59	74.00	-28.41	peak
5	5377.500	8.92	37.75	46.67	74.00	-27.33	peak
6	6227.500	10.35	35.64	45.99	74.00	-28.01	peak

Note: Level = Reading + Factor Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor

Cerpass Technology Corp.Issued Date: Jul. 17, 2017Page No.:49 of 111

Power	:	120V	Pol/Phase	 HORIZONTAL
Test Mode	:	Mode 2	Temperature	 18 °C
Test Date	:	Jul. 06, 2017	Humidity	 49 %
Memo		CH 78	Atmospheric Pressure	1008 hpa



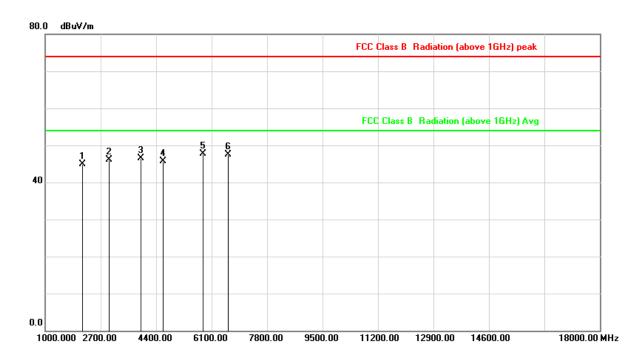
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2360.000	-3.18	48.78	45.60	74.00	-28.40	peak
2	3125.000	1.43	44.58	46.01	74.00	-27.99	peak
3	3762.500	4.30	41.09	45.39	74.00	-28.61	peak
4	4612.500	7.87	39.30	47.17	74.00	-26.83	peak
5	5165.000	8.74	39.06	47.80	74.00	-26.20	peak
6	6397.500	10.42	37.73	48.15	74.00	-25.85	peak

Note: Level = Reading + Factor Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor

Cerpass Technology Corp. Issued Date :Jul. 17, 2017
Page No. :50 of 111

Power	:	120V	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 2	Temperature	:	18 °C
Test Date	:	Jul. 06, 2017	Humidity	:	49 %
Memo	:	CH 78	Atmospheric Pressure	:	1008 hpa



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2147.500	-4.10	49.04	44.94	74.00	-29.06	peak
2	2955.000	0.47	45.66	46.13	74.00	-27.87	peak
3	3932.500	4.88	41.53	46.41	74.00	-27.59	peak
4	4612.500	7.87	37.90	45.77	74.00	-28.23	peak
5	5845.000	9.88	37.85	47.73	74.00	-26.27	peak
6	6610.000	10.82	36.73	47.55	74.00	-26.45	peak

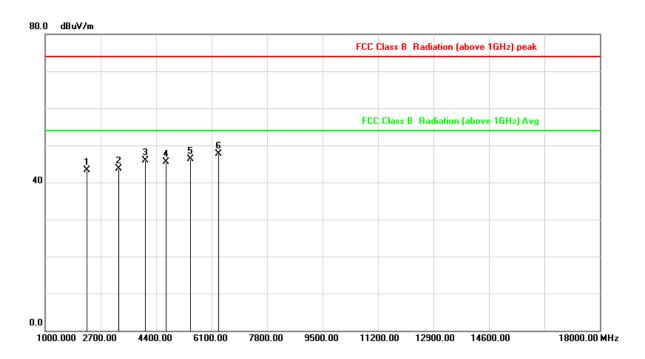
Note: Level = Reading + Factor Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor

Issued Date : Jul. 17, 2017 Page No. :51 of 111

Cerpass Technology Corp.

Power	:	120V	Pol/Phase	:	HORIZONTAL
Test Mode		Mode 3	Temperature	:	18 °C
Test Date		Jul. 06, 2017	Humidity	:	49 %
Memo		CH 00	Atmospheric Pressure	:	1008 hpa



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2275.000	-3.55	46.93	43.38	74.00	-30.62	peak
2	3252.500	2.10	41.63	43.73	74.00	-30.27	peak
3	4060.000	5.42	40.43	45.85	74.00	-28.15	peak
4	4697.500	8.03	37.56	45.59	74.00	-28.41	peak
5	5462.500	8.99	37.25	46.24	74.00	-27.76	peak
6	6312.500	10.38	37.28	47.66	74.00	-26.34	peak

Note: Level = Reading + Factor Margin = Level – Limit

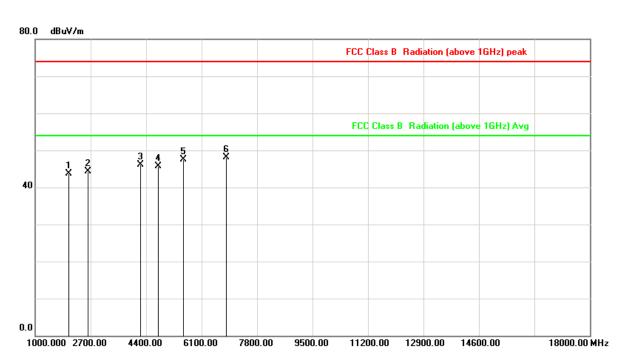
Cerpass Technology Corp.

Factor = Antenna Factor + Cable Loss - Amplifier Factor

Issued Date : Jul. 17, 2017 Page No. : 52 of 111

Power	:	120V	Pol/Phase	:	VERTICAL
Test Mode	•••	Mode 3	Temperature	:	18 °C
Test Date		Jul. 06, 2017	Humidity	:	49 %
Memo	:	CH 00	Atmospheric Pressure	:	1008 hpa

Report No.: DEFB1706063



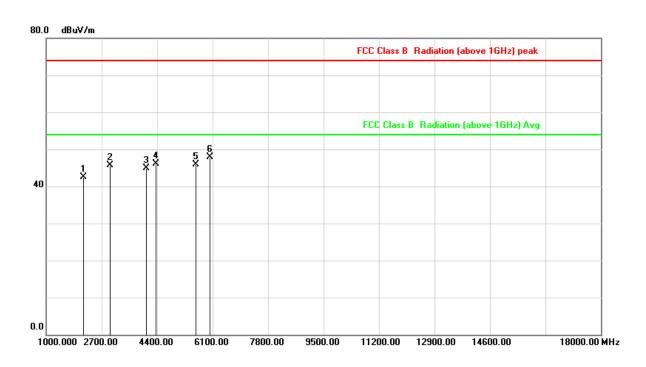
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2020.000	-4.64	48.30	43.66	74.00	-30.34	peak
2	2615.000	-1.81	46.09	44.28	74.00	-29.72	peak
3	4230.000	6.28	39.84	46.12	74.00	-27.88	peak
4	4782.500	8.19	37.54	45.73	74.00	-28.27	peak
5	5547.500	9.14	38.35	47.49	74.00	-26.51	peak
6	6865.000	11.64	36.48	48.12	74.00	-25.88	peak

Note: Level = Reading + Factor Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor

Cerpass Technology Corp. Issued Date :Jul. 17, 2017
Page No. :53 of 111

Power	:	120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 3	Temperature	:	18 °C
Test Date	:	Jul. 06, 2017	Humidity	:	49 %
Memo	•	CH 39	Atmospheric Pressure	:	1008 hpa



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2147.500	-4.10	46.57	42.47	74.00	-31.53	peak
2	2955.000	0.47	45.17	45.64	74.00	-28.36	peak
3	4060.000	5.42	39.43	44.85	74.00	-29.15	peak
4	4357.500	6.93	39.17	46.10	74.00	-27.90	peak
5	5590.000	9.24	36.66	45.90	74.00	-28.10	peak
6	6015.000	10.27	37.69	47.96	74.00	-26.04	peak

Note: Level = Reading + Factor Margin = Level – Limit

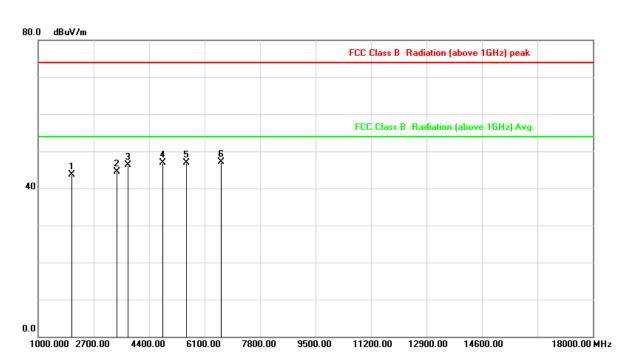
Factor = Antenna Factor + Cable Loss - Amplifier Factor

Issued Date : Jul. 17, 2017 Cerpass Technology Corp.

Page No. :54 of 111

Power	:	120V	Pol/Phase	:	VERTICAL
Test Mode	•••	Mode 3	Temperature	:	18 °C
Test Date		Jul. 06, 2017	Humidity	:	49 %
Memo		CH 39	Atmospheric Pressure	:	1008 hpa

Report No.: DEFB1706063



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2020.000	-4.64	48.30	43.66	74.00	-30.34	peak
2	3422.500	2.99	41.42	44.41	74.00	-29.59	peak
3	3762.500	4.30	41.96	46.26	74.00	-27.74	peak
4	4825.000	8.27	38.66	46.93	74.00	-27.07	peak
5	5547.500	9.14	37.85	46.99	74.00	-27.01	peak
6	6610.000	10.82	36.23	47.05	74.00	-26.95	peak

Note: Level = Reading + Factor Margin = Level – Limit

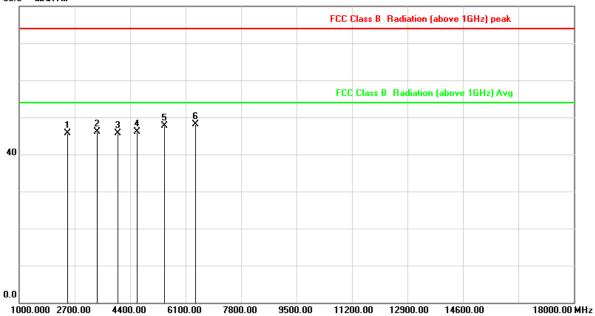
Factor = Antenna Factor + Cable Loss - Amplifier Factor

Cerpass Technology Corp. Issued Date :Jul. 17, 2017
Page No. :55 of 111

ERPASS TECHNOLOGY CORP.	Report No.: DEFB1706063
-------------------------	-------------------------

Power		120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 3	Temperature	:	18 °C
Test Date	:	Jul. 06, 2017	Humidity	:	49 %
Memo	:	CH 78	Atmospheric Pressure	:	1008 hpa





No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2487.500	-2.63	48.35	45.72	74.00	-28.28	peak
2	3380.000	2.77	43.40	46.17	74.00	-27.83	peak
3	4017.500	5.20	40.47	45.67	74.00	-28.33	peak
4	4612.500	7.87	38.30	46.17	74.00	-27.83	peak
5	5462.500	8.99	38.75	47.74	74.00	-26.26	peak
6	6397.500	10.42	37.73	48.15	74.00	-25.85	peak

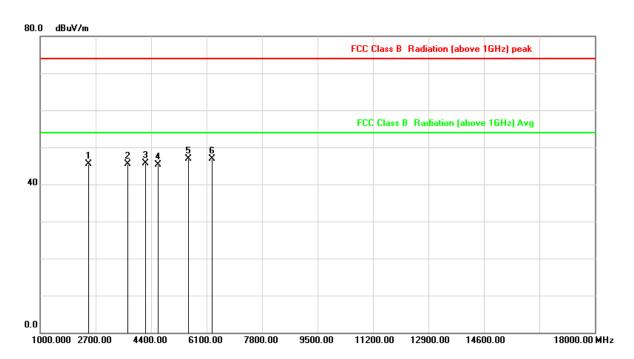
Note: Level = Reading + Factor Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor

Issued Date : Jul. 17, 2017 Cerpass Technology Corp. Page No. :56 of 111

Power	:	120V	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 3	Temperature	:	18 °C
Test Date	:	Jul. 06, 2017	Humidity	:	49 %
Memo	:	CH 78	Atmospheric Pressure	:	1008 hpa

Report No.: DEFB1706063



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2487.500	-2.63	48.08	45.45	74.00	-28.55	peak
2	3677.500	4.01	41.52	45.53	74.00	-28.47	peak
3	4230.000	6.28	39.34	45.62	74.00	-28.38	peak
4	4612.500	7.87	37.40	45.27	74.00	-28.73	peak
5	5547.500	9.14	37.85	46.99	74.00	-27.01	peak
6	6270.000	10.37	36.45	46.82	74.00	-27.18	peak

Note: Level = Reading + Factor Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor

 Corp.
 Issued Date : Jul. 17, 2017

 Page No. : 57 of 111

7. 20dB Bandwidth and 99% Occupied Bandwidth

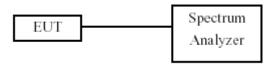
7.1 Test Limit

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

7.2 Test Procedures

- a. The transmitter output was connected to the spectrum analyzer.
- b. Set RBW of spectrum analyzer to 30 KHz and VBW to 100 KHz.
- c. The 20 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20 dB.

7.3 Test Setup Layout



7.4 Test Result and Data

Test Date: Jul. 04, 2017 Temperature: 25°C Atmospheric pressure: 1020 hPa Humidity: 55%

1M

Channel	Frequency (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (KHz)	2/3 of 20dB Bandwidth (MHz)
00	2402	0.907	834.51	605
39	2441	0.922	832.43	615
78	2480	0.888	830.82	592

2M

Channel	Frequency	20dB Bandwidth	99% Bandwidth	2/3 of 20dB Bandwidth
Channel	(MHz)	(MHz)	(KHz)	(MHz)
00	2402	1.219	1159.5	813
39	2441	1.221	1160.3	814
78	2480	1.222	1160.2	815

3M

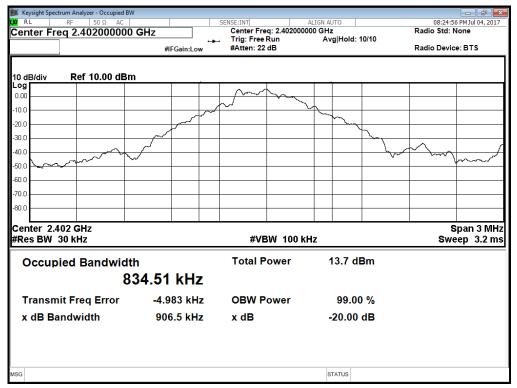
Channel	Frequency (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (KHz)	2/3 of 20dB Bandwidth (MHz)
00	2402	1.208	1142.4	805
39	2441	1.210	1138.3	807
78	2480	1.211	1139.8	807

Cerpass Technology Corp. Issued Date : Jul. 17, 2017

Page No. : 58 of 111

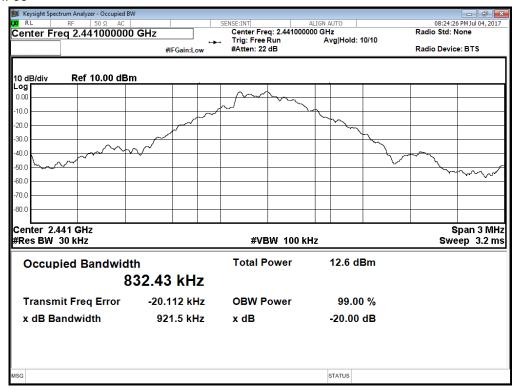
Modulation Standard: GFSK (1Mbps)

Channel: 00



Modulation Standard: GFSK (1Mbps)

Channel: 39

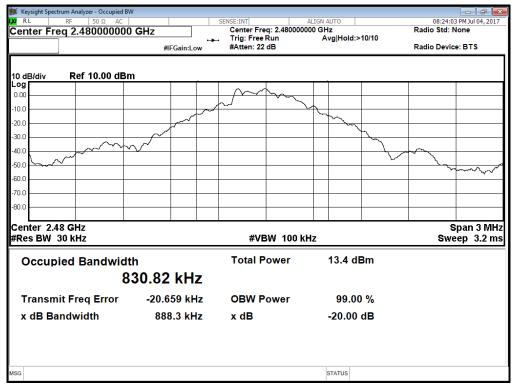


Cerpass Technology Corp. Issued Date : Jul. 17, 2017

Page No. : 59 of 111

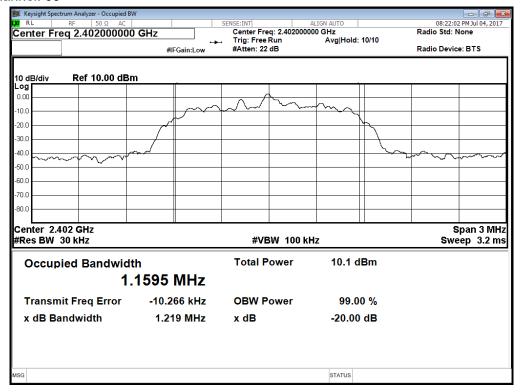


Channel: 78



Modulation Standard: $\pi/4$ DQPSK (2Mbps)

Channel: 00

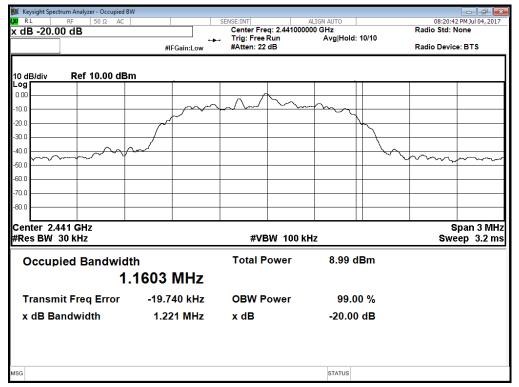


Cerpass Technology Corp. Issued Date : Jul. 17, 2017

Page No. : 60 of 111

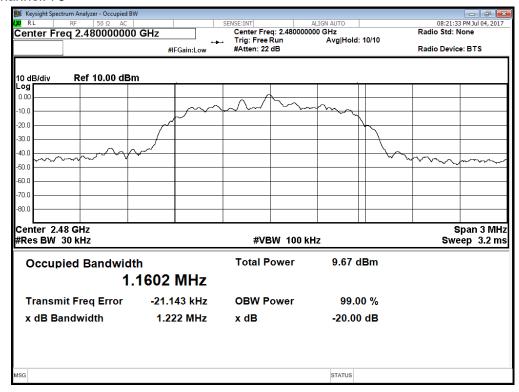
Modulation Standard: $\pi/4$ DQPSK (2Mbps)

Channel: 39



Modulation Standard: $\pi/4$ DQPSK (2Mbps)

Channel: 78

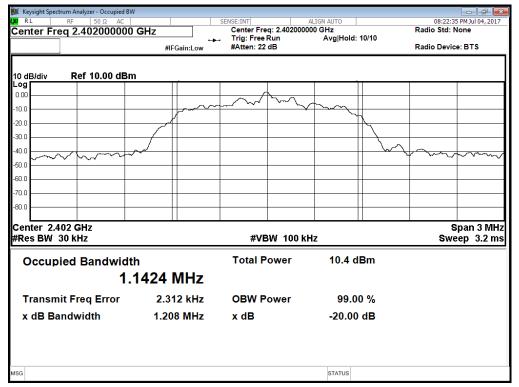


Cerpass Technology Corp. Issued Date : Jul. 17, 2017

Page No. : 61 of 111

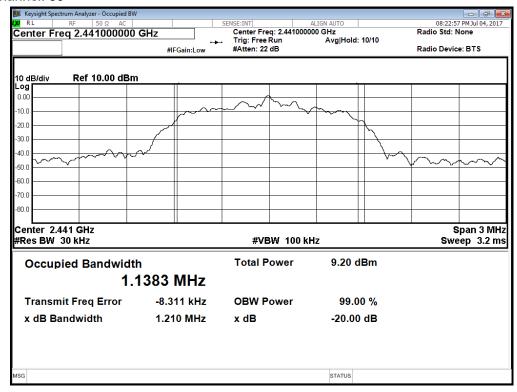
Modulation Standard: 8DPSK (3Mbps)

Channel: 00



Modulation Standard: 8DPSK (3Mbps)

Channel: 39

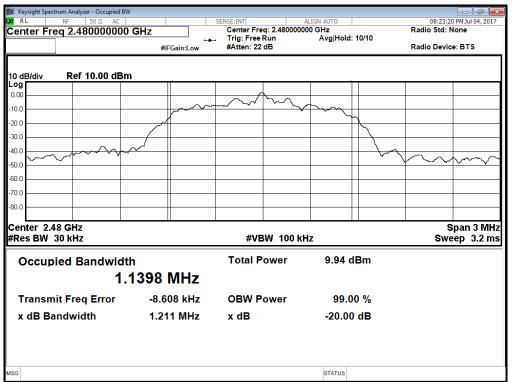


Cerpass Technology Corp. Issued Date : Jul. 17, 2017

Page No. : 62 of 111

Modulation Standard: 8DPSK (3Mbps)

Channel: 78



Cerpass Technology Corp. Issued Date : Jul. 17, 2017

Page No. : 63 of 111

8. Frequencies Separation

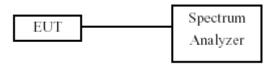
8.1 Test Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

8.2 Test Procedures

- a. The transmitter output was connected to the spectrum analyzer.
- b. Set RBW of spectrum analyzer to 30 KHz and VBW to 100 KHz.
- c. By using the MaxHold function record the separation of two adjacent channels.
- d. Measure the frequency difference of these two adjacent channels.

8.3 Test Setup Layout



8.4 Test Result and Data

Test Date: Jul. 04, 2017 Temperature: 25°C Atmospheric pressure: 1020 hPa Humidity: 55%

1M

Frequency (MHz)	Channel Separation (MHz)	Limit (MHz)	2/3 of 20dB Bandwidth (MHz)
	(IVITIZ)	(IVITIZ)	(IVITZ)
2402	1.000	≥ 2/3 of 20dB Bandwidth	0.605
2441	1.000	≥ 2/3 of 20dB Bandwidth	0.615
2480	1.000	≥ 2/3 of 20dB Bandwidth	0.592
2M			

Frequency (MHz)	Channel Separation	Limit	2/3 of 20dB Bandwidth
	(MHz)	(MHz)	(MHz)
2402	1.000	≥ 2/3 of 20dB Bandwidth	0.813
2441	1.000	≥ 2/3 of 20dB Bandwidth	0.814
2480	1.000	≥ 2/3 of 20dB Bandwidth	0.815

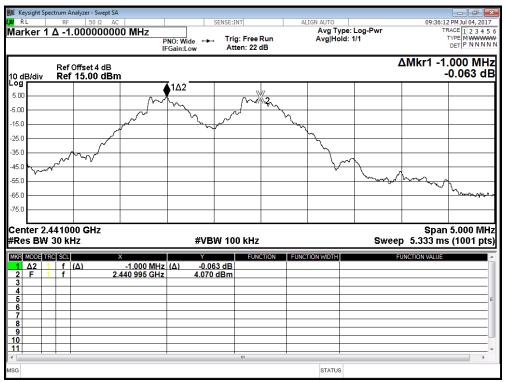
3M								
Frequency (MHz)	Channel Separation (MHz)	Limit (MHz)	2/3 of 20dB Bandwidth (MHz)					
2402	1.000	≥ 2/3 of 20dB Bandwidth	0.805					
2441	1.000	≥ 2/3 of 20dB Bandwidth	0.807					
2480	1.000	≥ 2/3 of 20dB Bandwidth	0.807					

Cerpass Technology Corp. Issued Date : Jul. 17, 2017

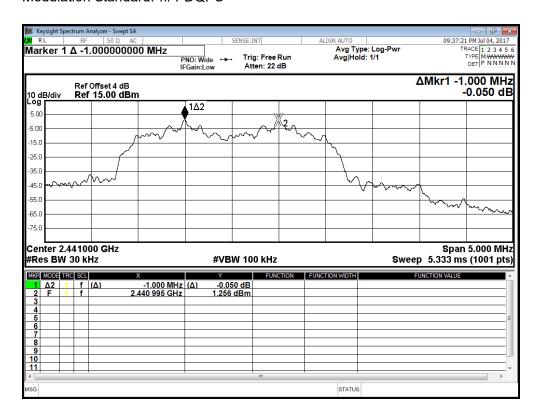
Page No. : 64 of 111



Modulation Standard: GFSK



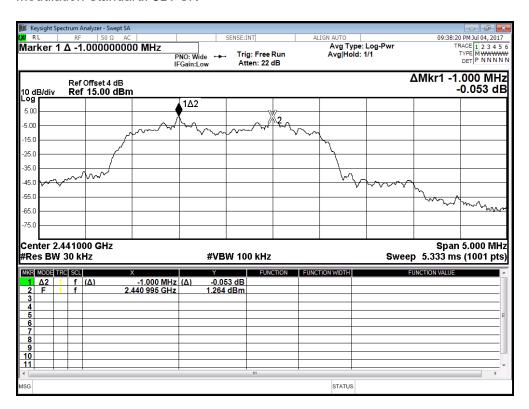
Modulation Standard: π/4-DQPS



Cerpass Technology Corp. Issued Date : Jul. 17, 2017

Page No. : 65 of 111

Modulation Standard: 8DPSK



Cerpass Technology Corp. Issued Date : Jul. 17, 2017

Page No. : 66 of 111

9. Dwell Time on each channel

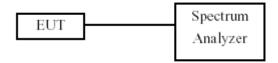
9.1 Test Limit

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

9.2 Test Procedures

- 1. The transmitter output was connected to the spectrum analyzer.
- 2. Adjust the center frequency to measure frequency, then set zero span mode.
- 2. Set RBW of spectrum analyzer to 1 MHz and VBW to 1 MHz.
- 4. Measure the time duration of one transmission on the measured frequency.

9.3 Test Setup Layout



Cerpass Technology Corp. Issued Date :Jul. 17, 2017

Page No. : 67 of 111



9.4 Test Result and Data

Test Date : Jul. 04, 2017 Temperature : 22C Atmospheric pressure : 1017 hPa Humidity : 60 %

Test Period = 0.4 (second/ channel) x 79 Channel = 31.6 sec

Modulation Standard: GFSK(1Mbps)

DH 1

Pulse Time	Total of Dwell	Period Time	Limit	
(ms)	(ms)	(s)	(ms)	Result
0.426	136. 32	31.6	400	PASS

Remark: Total of Dwell =pulse Time*(1600/2)/79*Period Time

DH 3

Pulse Time	Total of Dwell	Period Time	Limit	
(ms)	(ms)	(s)	(ms)	Result
1. 68	268.80	31.6	400	PASS

Remark: Total of Dwell =pulse Time*(1600/4)/79*Period Time

DH 5

Pulse Time	Total of Dwell	Period Time	Limit	
(ms)	(ms)	(s)	(ms)	Result
2. 93	312. 53	31.6	400	PASS

Remark: Total of Dwell =pulse Time*(1600/6)/79*Period Time

Cerpass Technology Corp. Issued Date : Jul. 17, 2017

Page No. : 68 of 111

Modulation Standard: π /4 DQPSK(2Mbps)

DH 1

Pulse Time	Total of Dwell	Period Time	Limit	
(ms)	(ms)	(s)	(ms)	Result
0.432	138. 24	31.6	400	PASS

Remark: Total of Dwell =pulse Time*(1600/2)/79*Period Time

DH 3

Pulse Time	Total of Dwell	Period Time	Limit	
(ms)	(ms)	(s)	(ms)	Result
1.686	269. 76	31.6	400	PASS

Remark: Total of Dwell =pulse Time*(1600/4)/79*Period Time

DH 5

Pulse Time	Total of Dwell	Period Time	Limit	
(ms)	(ms)	(s)	(ms)	Result
2. 94	313.60	31.6	400	PASS

Remark: Total of Dwell =pulse Time*(1600/6)/79*Period Time Modulation Standard: 8DPSK(3Mbps)

DH 1

Pulse Time	Total of Dwell	Period Time	Limit	
(ms)	(ms)	(s)	(ms)	Result
0.438	140.16	31.6	400	PASS

Remark: Total of Dwell =pulse Time*(1600/2)/79*Period Time DH3

Pulse Time	Total of Dwell	Period Time	Limit	
(ms)	(ms)	(s)	(ms)	Result
1.683	269. 28	31.6	400	PASS

Remark: Total of Dwell =pulse Time*(1600/4)/79*Period Time

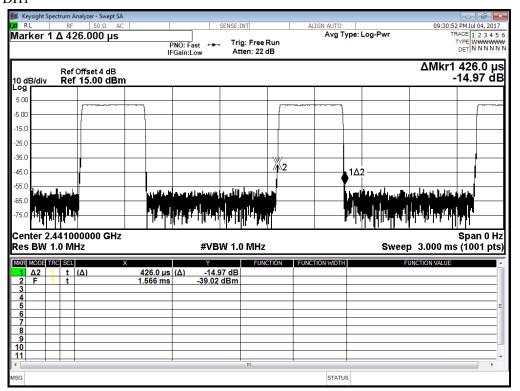
DH 5

Pulse Time	Total of Dwell	Period Time	Limit	
(ms)	(ms)	(s)	(ms)	Result
2. 94	313.60	31.6	400	PASS

Remark: Total of Dwell =pulse Time*(1600/6)/79*Period Time

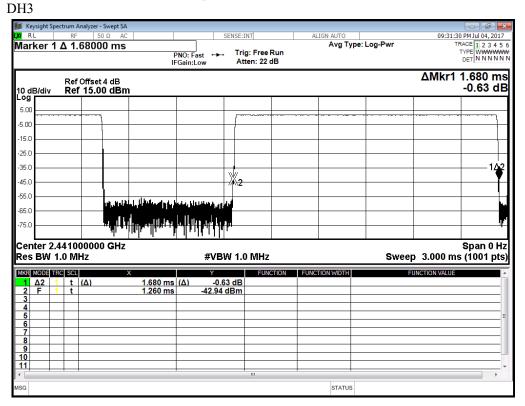
Cerpass Technology Corp. Issued Date : Jul. 17, 2017
Page No. : 69 of 111

Modulation Standard: GFSK (1Mbps) DH1



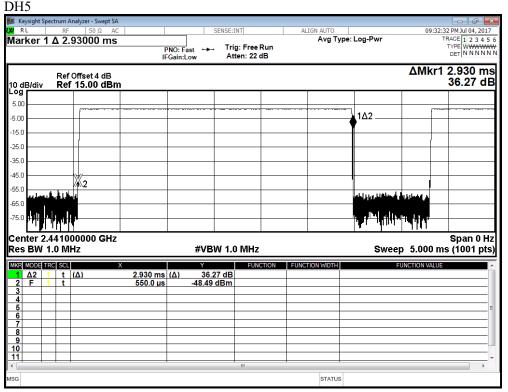
Report No.: DEFB1706063

Modulation Standard: GFSK (1Mbps)



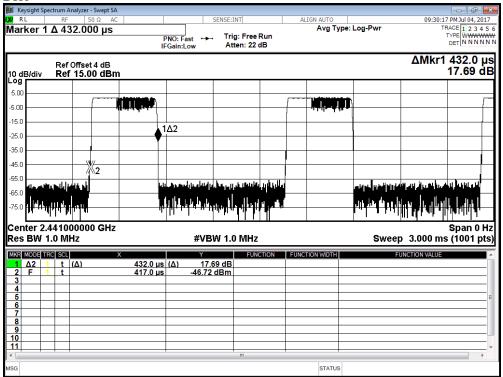
Cerpass Technology Corp. Issued Date : Jul. 17, 2017
Page No. : 70 of 111

Modulation Standard: GFSK (1Mbps)



Modulation Standard: π /4 DQPSK (2Mbps)

DH1

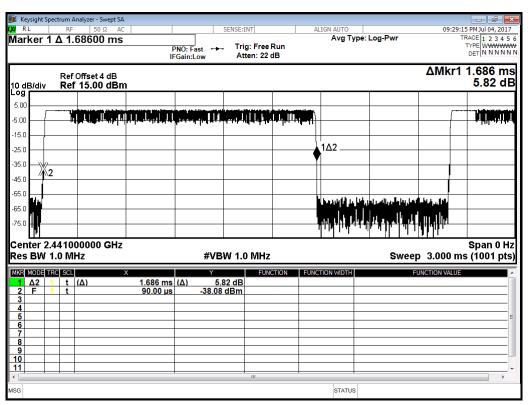


Cerpass Technology Corp. Issued Date : Jul. 17, 2017

Page No. :71 of 111

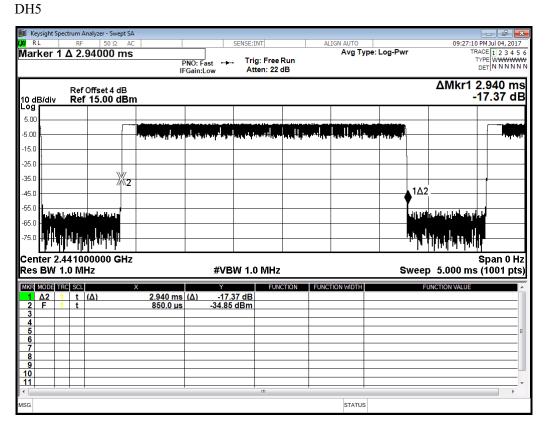
Modulation Standard: $\pi /4$ DQPSK (2Mbps)

DH3



Report No.: DEFB1706063

Modulation Standard: $\pi/4$ DQPSK (2Mbps)

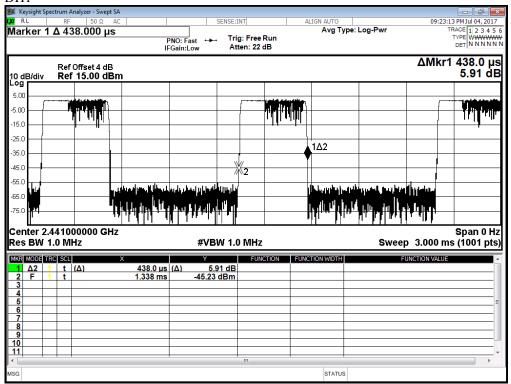


Cerpass Technology Corp. Issued Date : Jul. 17, 2017
Page No. : 72 of 111

Report No.: DEFB1706063

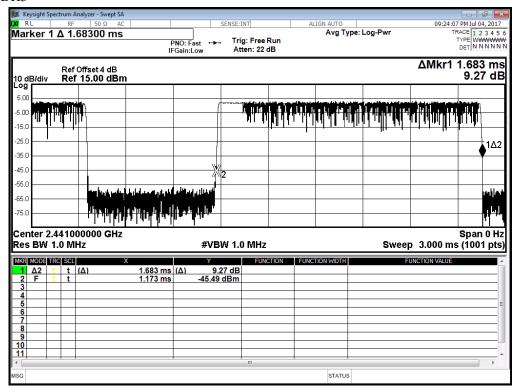
Modulation Standard: 8DPSK (3Mbps)

DH1



Modulation Standard: 8DPSK (3Mbps)

DH3

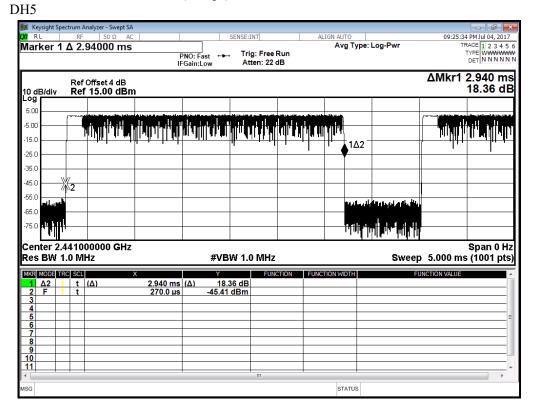


Cerpass Technology Corp. Issued Date : Jul. 17, 2017

Page No. : 73 of 111



Modulation Standard: 8DPSK (3Mbps)



Issued Date : Jul. 17, 2017

Report No.: DEFB1706063

Page No. : 74 of 111

10. Number of Hopping Channels

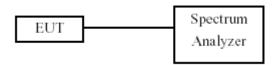
10.1 Test Limit

Frequency hopping systems in the 2400 ~ 2483.5 MHz band shall use at least 15 channels.

10.2 Test Procedures

- a. The transmitter output was connected to the spectrum analyzer.
- b. 2. Set RBW of spectrum analyzer to 300 KHz and VBW to 300 KHz.
- c. 3. Set the MaxHold function, and then keep the EUT in hopping mode. Record all the signals from each channel until each one has been record.

10.3 Test Setup Layout



10.4 Test Result and Data

Test Date: Jul. 04, 2017 Temperature: 25°C Atmospheric pressure: 1020 hPa Humidity: 55%

Modulation Standard: GFSK (1Mbps)

Number of hopping channels: 79 Channels

Modulation Standard: $\pi/4$ DQPSK (2Mbps)

Number of hopping channels: 79 Channels

Modulation Standard: 8DPSK (3Mbps)

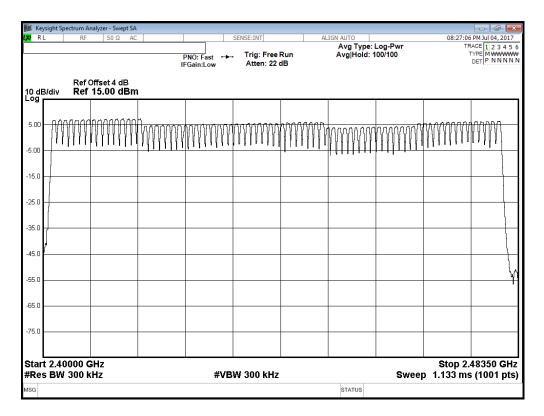
Number of hopping channels: 79 Channels

Cerpass Technology Corp. Issued Date : Jul. 17, 2017

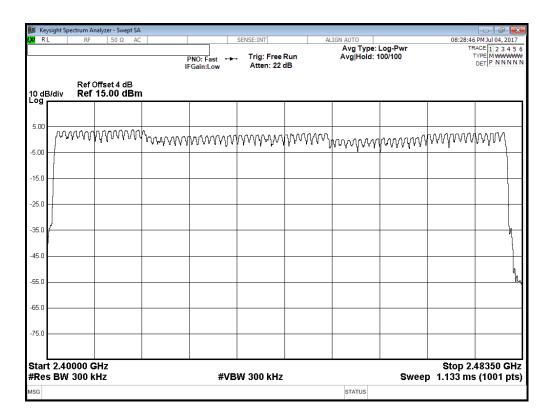
Page No. : 75 of 111

ERPASS TECHNOLOGY CORP. Report No.: DEFB1706063

Modulation Standard: GFSK (1Mbps)



Modulation Standard: π/4 DQPSK (2Mbps)

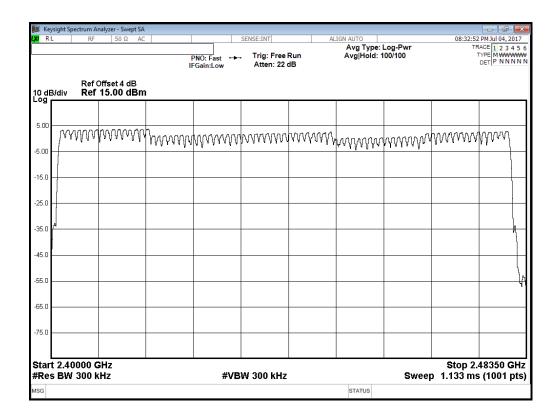


Cerpass Technology Corp. Issued Date : Jul. 17, 2017

Page No. : 76 of 111

ERPASS TECHNOLOGY CORP. Report No.: DEFB1706063

Modulation Standard: 8DPSK (3Mbps)



Cerpass Technology Corp. Issued Date : Jul. 17, 2017

Page No. : 77 of 111

11. Maximum Peak Output Power

11.1 Test Limit

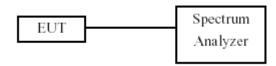
The Maximum Peak Output Power Measurement is 30dBm.

11.2 Test Procedures

The antenna port(RF output)of the EUT was connected to the input(RF input)of a power meter.

Power was read directly from the meter and cable loss connection was added to the reading to obtain power at the EUT antenna terminal. The EUT Output Power was set to maximum to produce the worse case test result.

11.3 Test Setup Layout



11.4 Test Result and Data

Test Date :Jul. 04, 2017 Temperature: 25°C

Atmospheric pressure: 1020 hPa Humidity: 55%

Modulation Type	Channel	Frequency (MHz)	Peak Power Output (dBm)	Peak Power Output (mW)
OFOK	00	2402	6.67	4.645
GFSK (1Mbps)	39	2441	5.57	3.606
(TWDp3)	78	2480	6.28	4.246
-/4 DODOK	00	2402	4.24	2.655
π/4 DQPSK (2Mbps)	39	2441	3.13	2.056
(21010093)	78	2480	3.80	2.399
8DPSK (3Mbps)	00	2402	4.81	3.027
	39	2441	3.63	2.307
(Sivibps)	78	2480	4.36	2.729

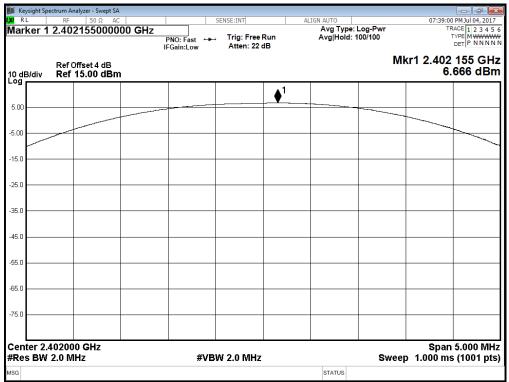
Cerpass Technology Corp. Issued Date : Jul. 17, 2017

Page No. : 78 of 111

ERPASS TECHNOLOGY CORP. Report No.: DEFB1706063

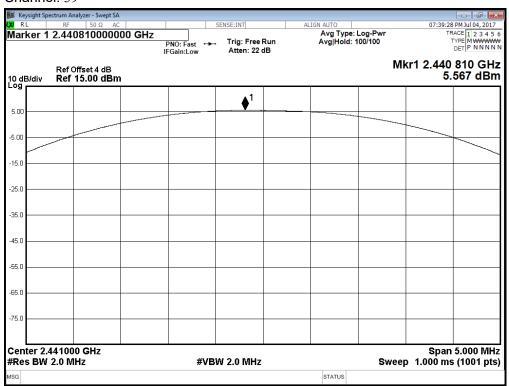
Modulation Standard: GFSK (1Mbps)

Channel: 00



Modulation Standard: GFSK (1Mbps)

Channel: 39



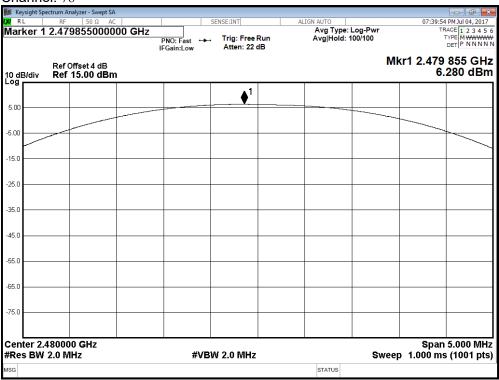
Cerpass Technology Corp. Issued Date : Jul. 17, 2017

Page No. : 79 of 111

CERPASS TECHNOLOGY CORP. Report No.: DEFB1706063

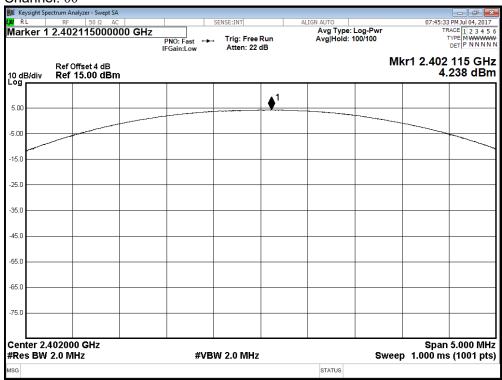
Modulation Standard: GFSK (1Mbps)

Channel: 78



Modulation Standard: π /4 DQPSK (2Mbps)

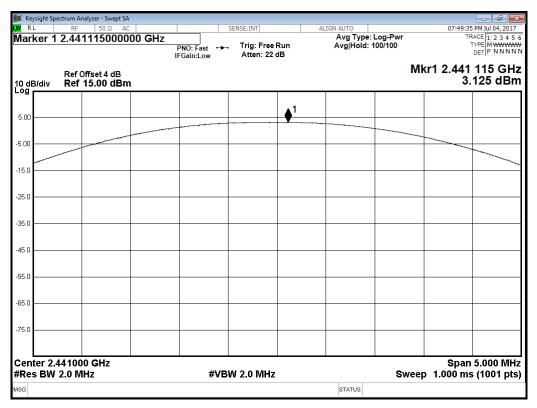




Issued Date : Jul. 17, 2017 Cerpass Technology Corp.

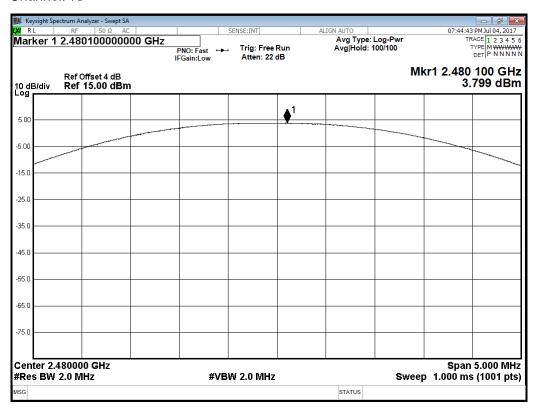
Page No. :80 of 111 Modulation Standard: π /4 DQPSK (2Mbps)

Channel: 39



Modulation Standard: π /4 DQPSK (2Mbps)

Channel: 78

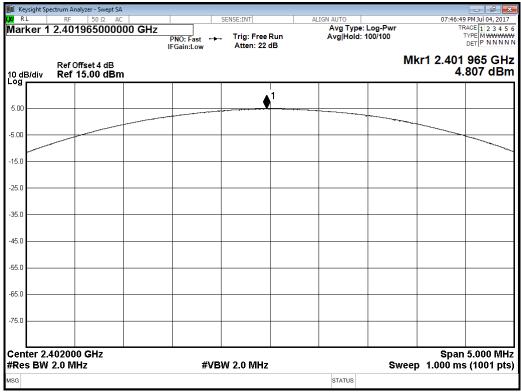


Issued Date : Jul. 17, 2017

Page No. :81 of 111

Modulation Standard: 8DPSK (3Mbps)

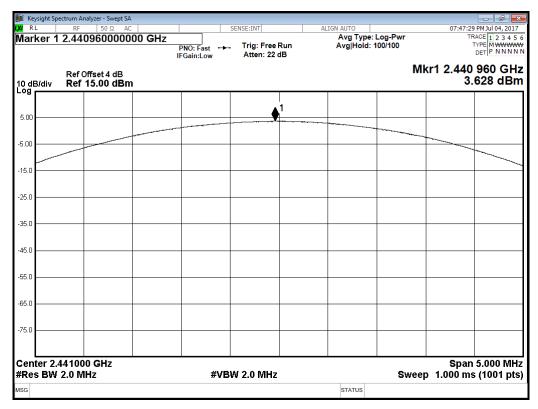
Channel: 00



Modulation Standard: 8DPSK (3Mbps)

Channel: 39

Cerpass Technology Corp.

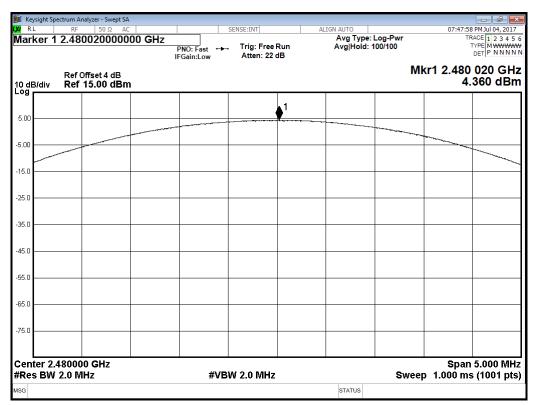


Issued Date : Jul. 17, 2017

Page No. : 82 of 111

Modulation Standard: 8DPSK (3Mbps)

Channel: 78



Cerpass Technology Corp. Issued Date : Jul. 17, 2017

Page No. : 83 of 111

12. Band Edges Measurement

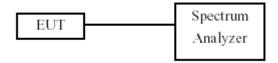
12.1 Test Limit

Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

12.2 Test Procedure

- a. The transmitter output was connected to the spectrum analyzer via a low lose cable.
- b. Set both RBW and VBW of spectrum analyzer to 100 KHz with convenient frequency span including 100 KHz bandwidth from band edge.
- c. The band edges was measured and recorded.

12.3 Test Setup Layout



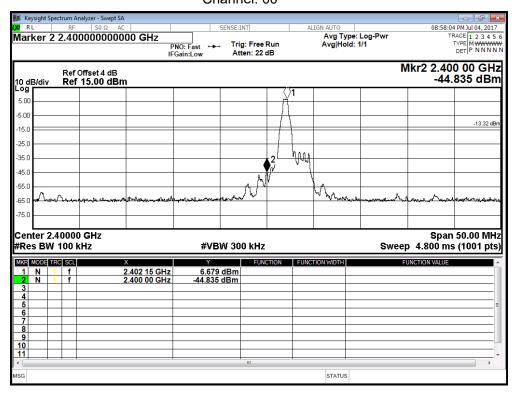
Cerpass Technology Corp. Issued Date : Jul. 17, 2017

Page No. : 84 of 111

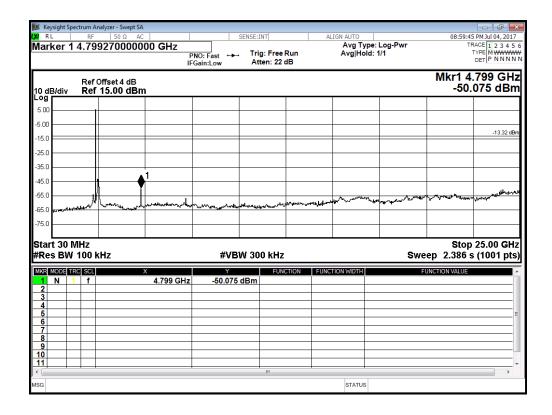
12.4 Test Result and Data

Single test

Modulation Standard: GFSK (1Mbps) Channel: 00

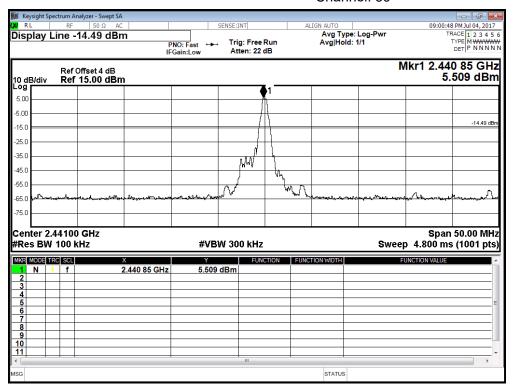


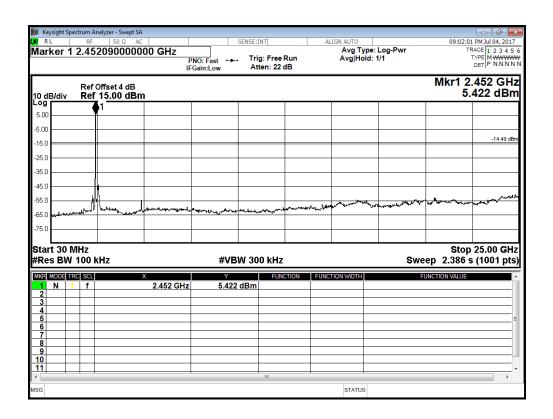
Report No.: DEFB1706063



Cerpass Technology Corp. Issued Date : Jul. 17, 2017
Page No. :85 of 111

Modulation Standard: GFSK (1Mbps) Channel: 39

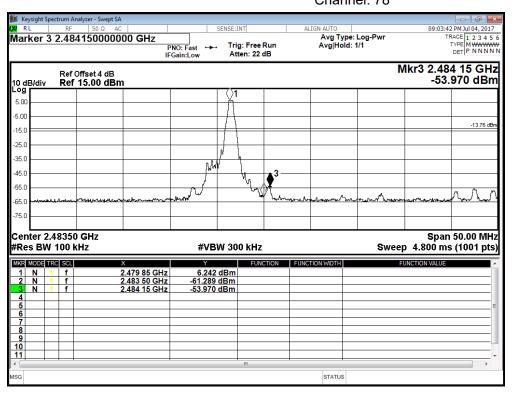


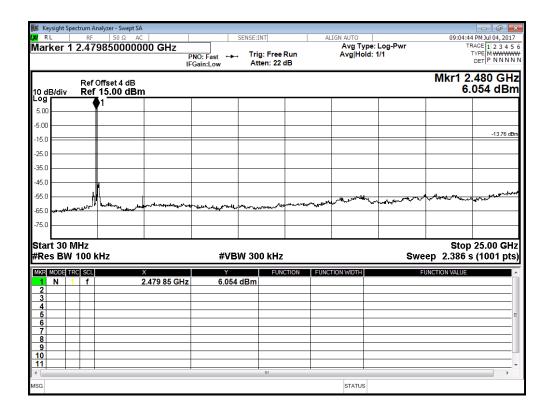


Cerpass Technology Corp. Issued Date : Jul. 17, 2017

Page No. : 86 of 111

Modulation Standard: GFSK (1Mbps) Channel: 78

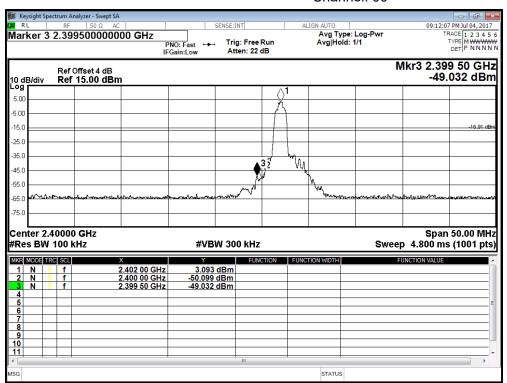


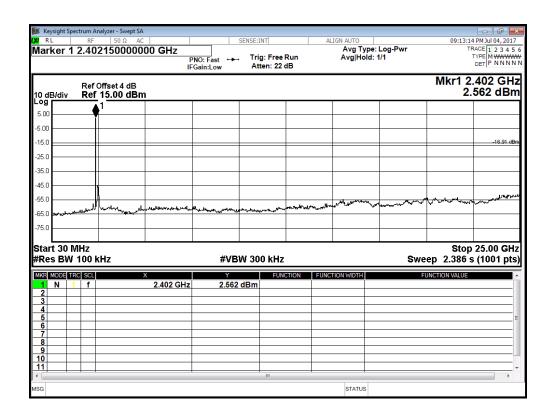


Cerpass Technology Corp. Issued Date : Jul. 17, 2017

Page No. : 87 of 111

Modulation Standard: π/4-DQPSK (2Mbps) Channel: 00

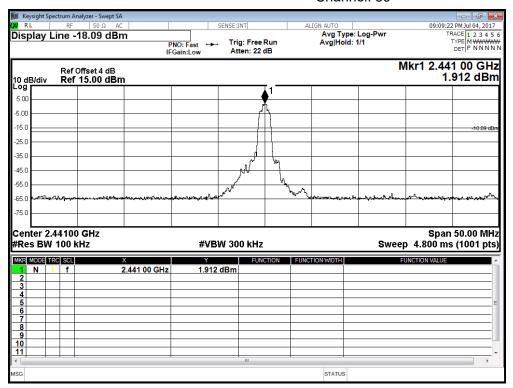


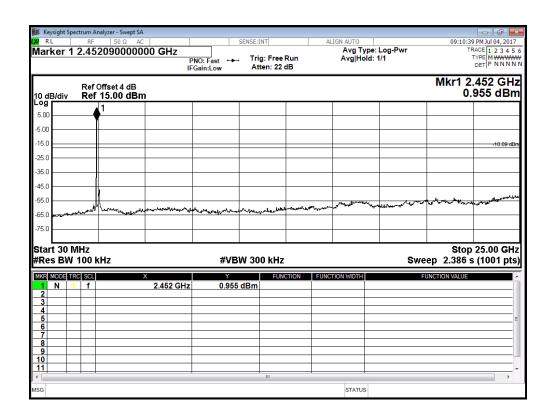


Cerpass Technology Corp. Issued Date : Jul. 17, 2017

Page No. : 88 of 111

Modulation Standard: π/4-DQPSK (2Mbps) Channel: 39

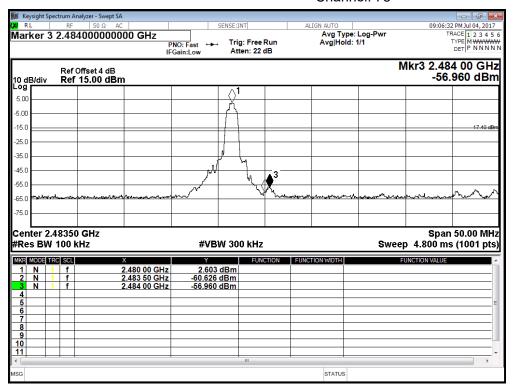


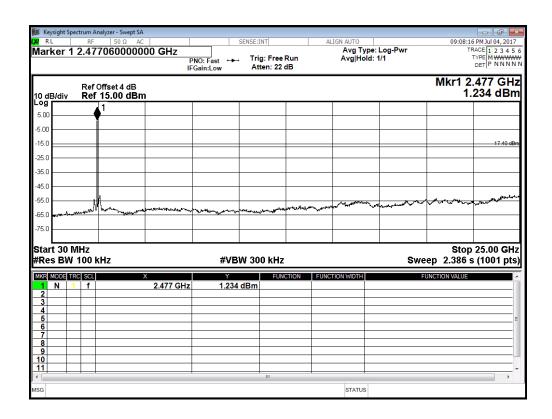


Cerpass Technology Corp. Issued Date : Jul. 17, 2017

Page No. : 89 of 111

Modulation Standard: π/4-DQPSK (2Mbps) Channel: 78

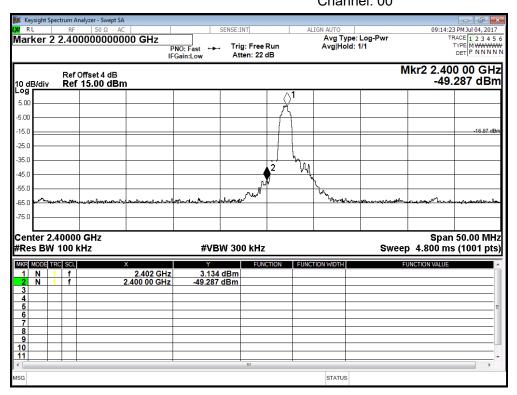


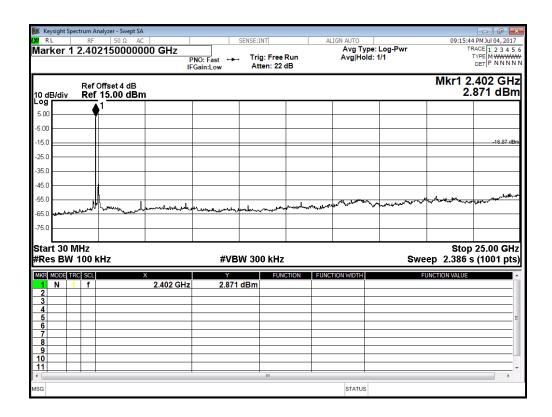


Cerpass Technology Corp. Issued Date : Jul. 17, 2017

Page No. : 90 of 111

Modulation Standard: 8DPSK (3Mbps) Channel: 00

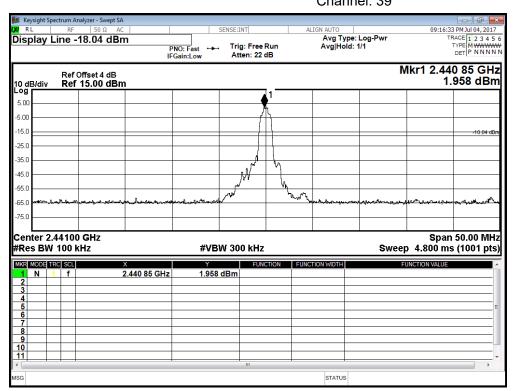


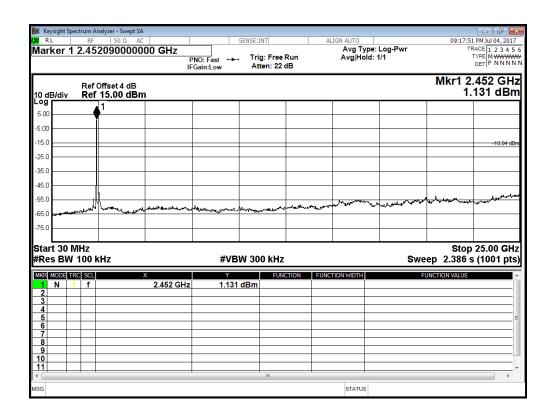


Cerpass Technology Corp. Issued Date : Jul. 17, 2017

Page No. :91 of 111

Modulation Standard: 8DPSK (3Mbps) Channel: 39

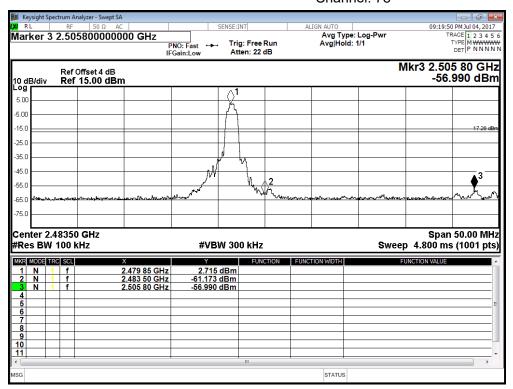


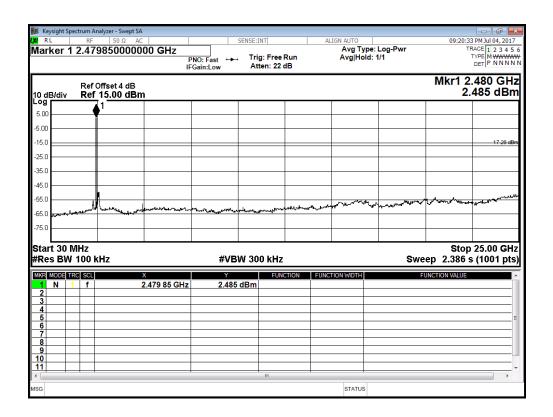


Cerpass Technology Corp. Issued Date : Jul. 17, 2017

Page No. : 92 of 111

Modulation Standard: 8DPSK (3Mbps) Channel: 78



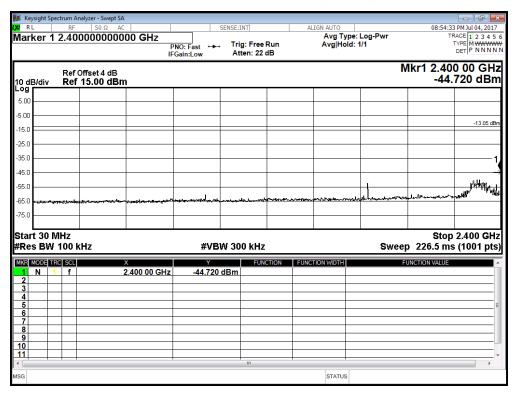


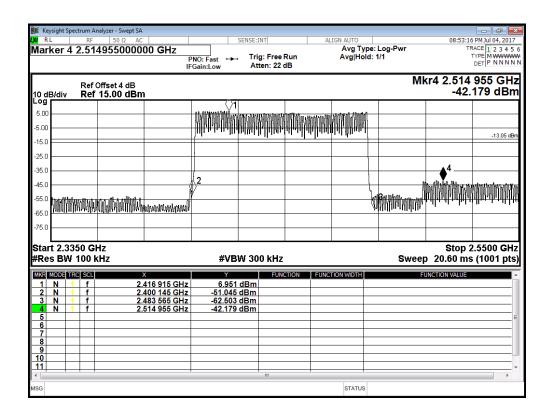
Cerpass Technology Corp. Issued Date : Jul. 17, 2017

Page No. : 93 of 111

Hopping test

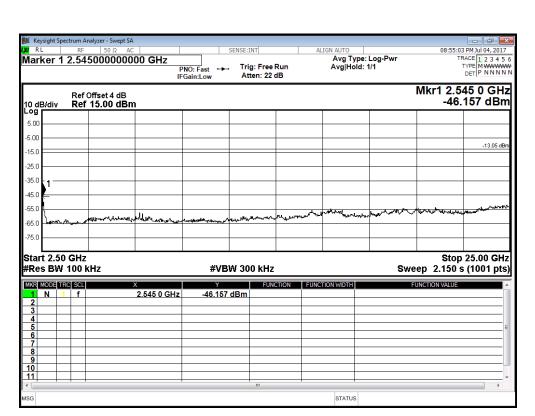
Modulation Standard: GFSK (1Mbps)



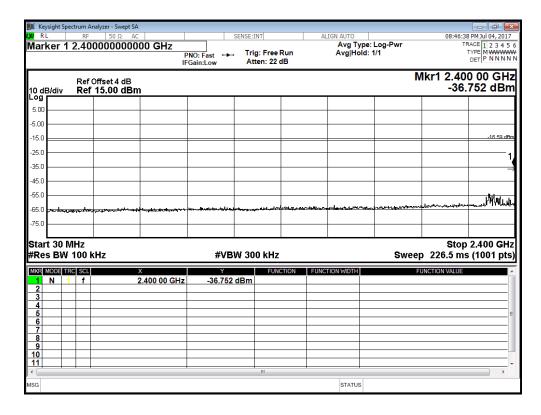


Cerpass Technology Corp. Issued Date : Jul. 17, 2017

Page No. : 94 of 111

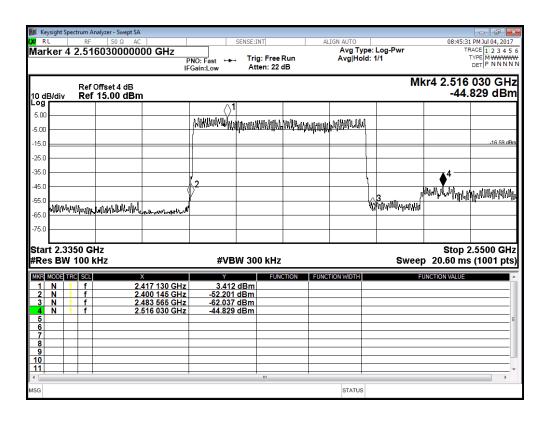


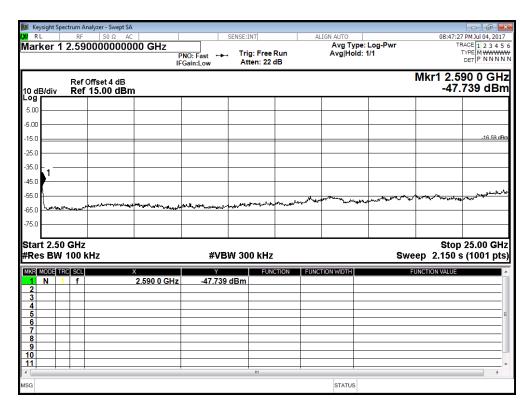
Modulation Standard: π/4-DQPSK (2Mbps)



Page No. : 95 of 111



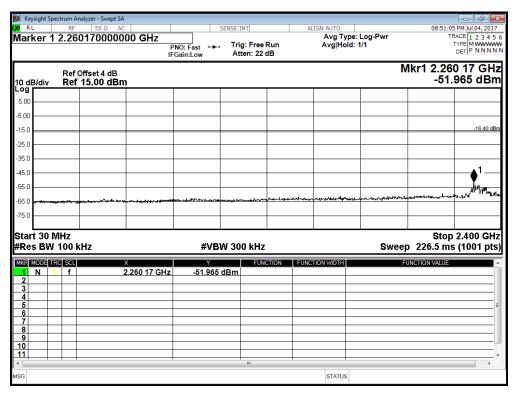


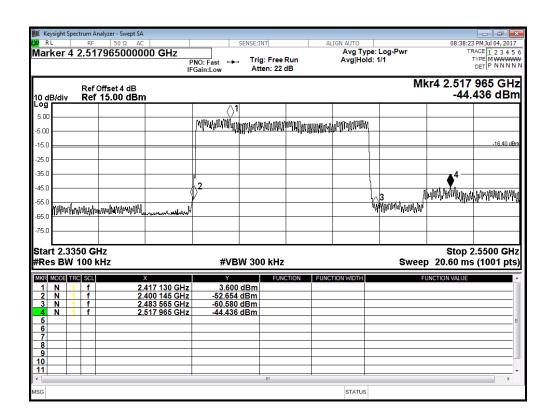


Page No. : 96 of 111

Hopping Mode:

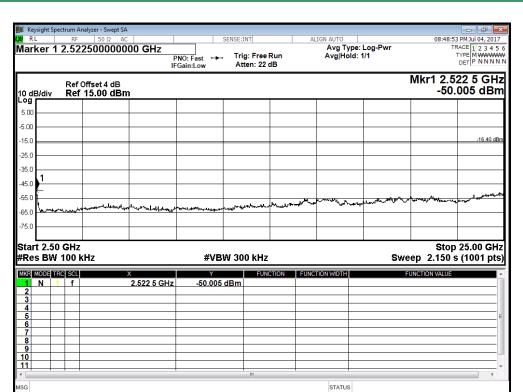
Modulation Standard: 8DPSK (3Mbps)





Cerpass Technology Corp. Issued Date : Jul. 17, 2017

Page No. : 97 of 111



Cerpass Technology Corp. Issued Date : Jul. 17, 2017

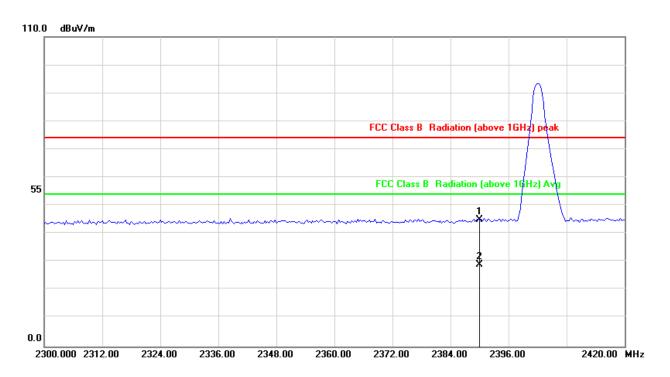
Page No. : 98 of 111



12.5 Restrict band emission Measurement Data

Power :	120V	Pol/Phase :	VERTICAL
Test Mode :	GFSK, CH00	Temperature :	23 °C
Test date :	Jul. 06, 2017	Humidity :	65 %

Report No.: DEFB1706063



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	-3.05	47.94	44.89	74.00	-29.11	peak
2	2390.000	-3.05	32.14	29.09	54.00	-24.91	AVG

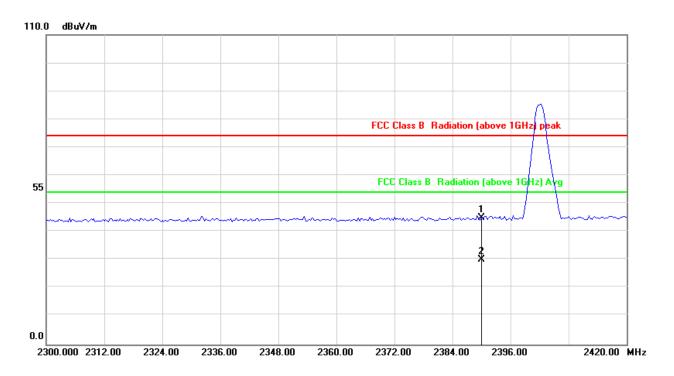
Note: Level=Reading+Factor. Margin=Level-Limit.

Cerpass Technology Corp. Issued Date :Jul. 17, 2017
Page No. :99 of 111



Power :	120V	Pol/Phase :	HORIZONTAL
Test Mode :	GFSK, CH00	Temperature :	23 °C
Test date :	Jul. 06, 2017	Humidity :	65 %

Report No.: DEFB1706063



No.	Frequency	Factor	Reading	Level	Limit	Margin	Detector
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.000	-3.05	48.04	44.99	74.00	-29.01	peak
2	2390.000	-3.05	33.12	30.07	54.00	-23.93	AVG

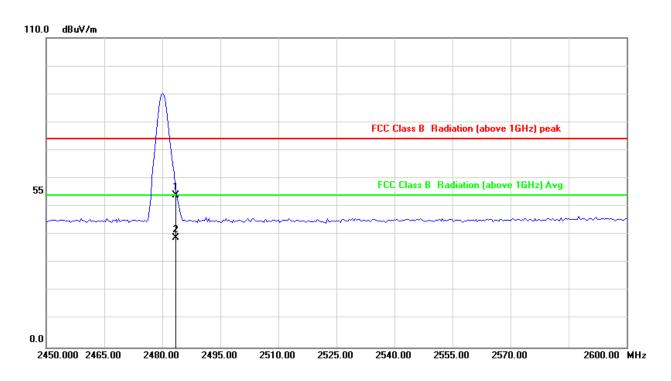
Note: Level=Reading+Factor. Margin=Level-Limit.

Issued Date : Jul. 17, 2017 Page No. : 100 of 111



Power :	120V	Pol/Phase :	VERTICAL
Test Mode :	GFSK, CH78	Temperature :	23 °C
Test date :	Jul. 06, 2017	Humidity :	65 %

Report No.: DEFB1706063



No.	Frequency	Factor	Reading	Level	Limit	Margin	Detector
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	-2.65	56.75	54.10	74.00	-19.90	peak
2	2483.500	-2.65	41.69	39.04	54.00	-14.96	AVG

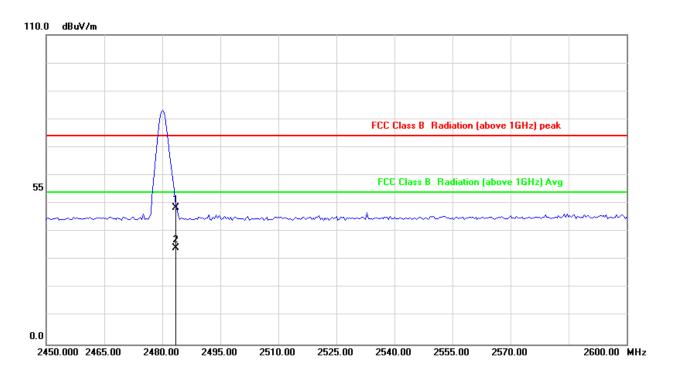
Note: Level=Reading+Factor. Margin=Level-Limit.

Cerpass Technology Corp.Issued Date: Jul. 17, 2017Page No.: 101 of 111



Power :	120V	Pol/Phase :	HORIZONTAL
Test Mode :	GFSK, CH78	Temperature :	23 °C
Test date :	Jul. 06, 2017	Humidity :	65 %

Report No.: DEFB1706063



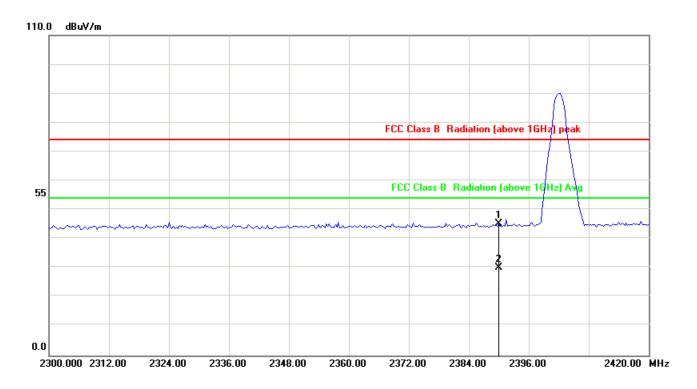
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	-2.65	51.12	48.47	74.00	-25.53	peak
2	2483.500	-2.65	36.88	34.23	54.00	-19.77	AVG

Note: Level=Reading+Factor. Margin=Level-Limit.

Cerpass Technology Corp.Issued Date: Jul. 17, 2017Page No.: 102 of 111



Power :	120V	Pol/Phase :	VERTICAL
Test Mode :	π /4 DQPSK, CH00	Temperature :	23 °C
Test date :	Jul. 06, 2017	Humidity :	65 %



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	-3.05	48.28	45.23	74.00	-28.77	peak
2	2390.000	-3.05	33.17	30.12	54.00	-23.88	AVG

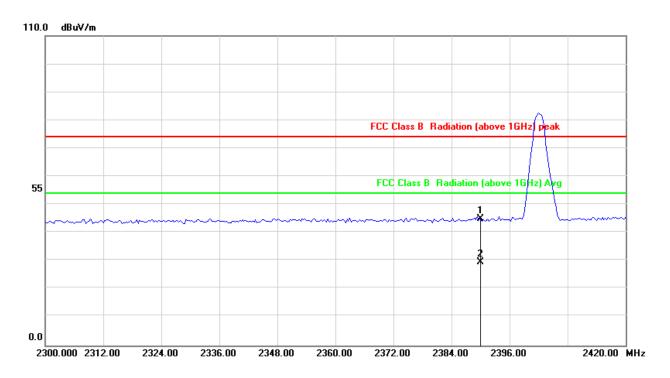
Cerpass Technology Corp. Issued Date : Jul. 17, 2017

Page No. : 103 of 111



Power :	120V	Pol/Phase :	HORIZONTAL
Test Mode :	π /4 DQPSK, CH00	Temperature :	23 °C
Test date :	Jul. 06, 2017	Humidity :	65 %

Report No.: DEFB1706063



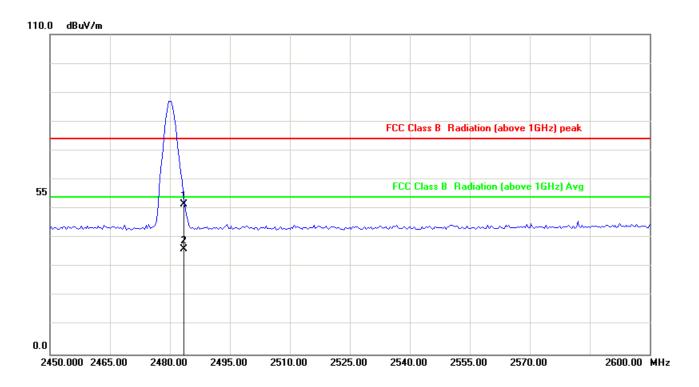
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	-3.05	48.00	44.95	74.00	-29.05	peak
2	2390.000	-3.05	32.67	29.62	54.00	-24.38	AVG

Note: Level=Reading+Factor. Margin=Level-Limit.

Cerpass Technology Corp.Issued Date: Jul. 17, 2017Page No.: 104 of 111



Power :	120V	Pol/Phase :	VERTICAL
Test Mode :	π /4 DQPSK, CH78	Temperature :	23 °C
Test date :	Jul. 06, 2017	Humidity :	65 %



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	-2.65	54.19	51.54	74.00	-22.46	peak
2	2483.500	-2.65	38.77	36.12	54.00	-17.88	AVG

Note: Level=Reading+Factor. Margin=Level-Limit.

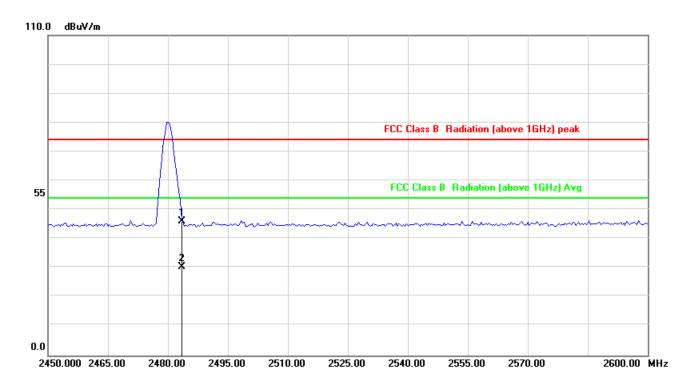
Cerpass Technology Corp. Issued Date : Jul. 17, 2017

Page No. : 105 of 111



Power :	120V	Pol/Phase :	HORIZONTAL
Test Mode :	π /4 DQPSK, CH78	Temperature :	23 °C
Test date :	Jul. 06, 2017	Humidity :	65 %

Report No.: DEFB1706063



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	-2.65	48.83	46.18	74.00	-27.82	peak
2	2483.500	-2.65	33.17	30.52	54.00	-23.48	AVG

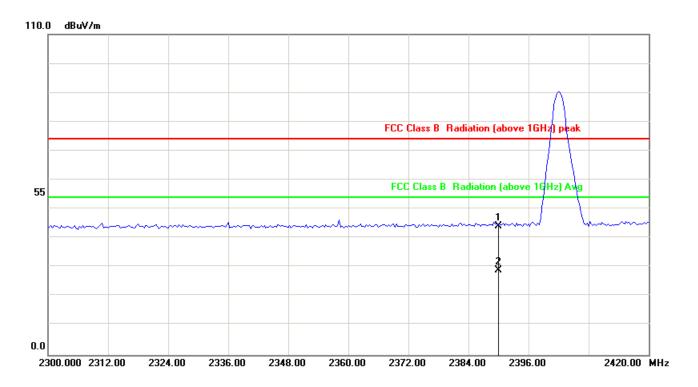
Note: Level=Reading+Factor. Margin=Level-Limit.

Cerpass Technology Corp.Issued Date: Jul. 17, 2017Page No.: 106 of 111



Power :	120V	Pol/Phase :	VERTICAL
Test Mode :	8DPSK, CH00	Temperature :	23 °C
Test date :	Jul. 06, 2017	Humidity :	65 %

Report No.: DEFB1706063



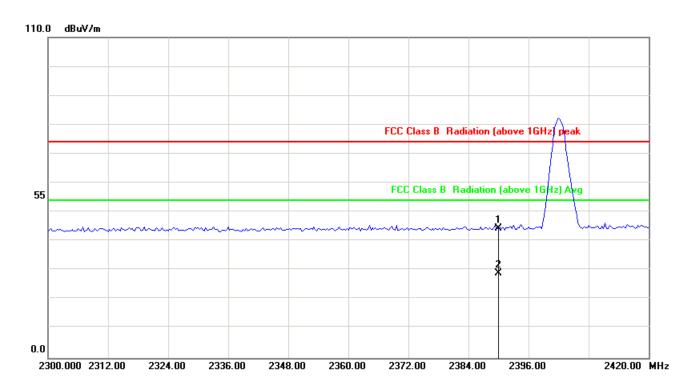
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	-3.05	47.30	44.25	74.00	-29.75	peak
2	2390.000	-3.05	32.16	29.11	54.00	-24.89	AVG

Note: Level=Reading+Factor. Margin=Level-Limit.

Cerpass Technology Corp.Issued Date:Jul. 17, 2017Page No.:107 of 111



Power :	120V	Pol/Phase :	HORIZONTAL
Test Mode :	8DPSK, CH00	Temperature :	23 °C
Test date :	Jul. 06, 2017	Humidity :	65 %



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	-3.05	47.60	44.55	74.00	-29.45	peak
2	2390.000	-3.05	32.17	29.12	54.00	-24.88	AVG

Note: Level=Reading+Factor. Margin=Level-Limit.

Cerpass Technology Corp.

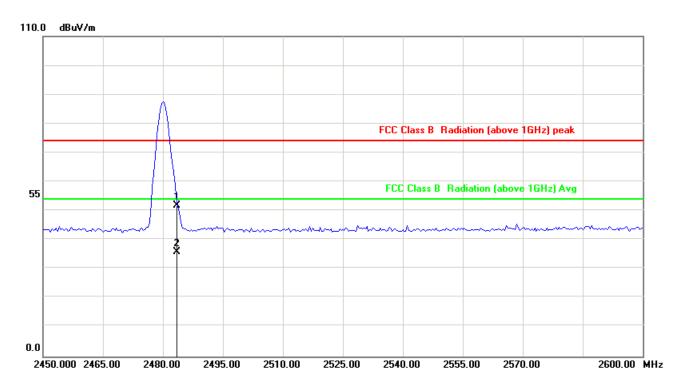
Issued Date : Jul. 17, 2017

Page No. :108 of 111



Power :	120V	Pol/Phase :	VERTICAL
Test Mode :	8DPSK, CH78	Temperature :	23 °C
Test date :	Jul. 06, 2017	Humidity :	65 %

Report No.: DEFB1706063



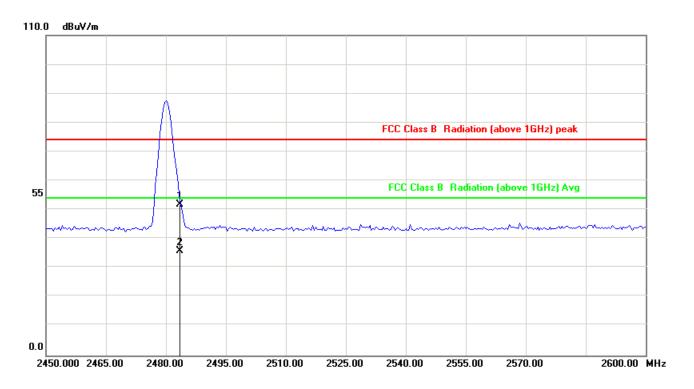
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	-2.65	48.28	45.63	74.00	-28.37	peak
2	2483.500	-2.65	33.41	30.76	54.00	-23.24	AVG

Note: Level=Reading+Factor. Margin=Level-Limit.

Cerpass Technology Corp.Issued Date: Jul. 17, 2017Page No.: 109 of 111



Power :	120V	Pol/Phase :	HORIZONTAL
Test Mode :	8DPSK, CH78	Temperature :	23 °C
Test date :	Jul. 06, 2017	Humidity :	65 %



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	-2.65	54.62	51.97	74.00	-22.03	peak
2	2483.500	-2.65	38.67	36.02	54.00	-17.98	AVG

Note: Level=Reading+Factor. Margin=Level-Limit.

Cerpass Technology Corp. Issued Date : Jul. 17, 2017

Page No. : 110 of 111

13. Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 - 0.11000	16.42000 – 16.42300	399.9 – 410.0	4.500 - 5.250
0.49500 - 0.505**	16.69475 – 16.69525	608.0 - 614.0	5.350 - 5.460
2.17350 - 2.19050	16.80425 – 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 - 4.12800	25.50000 – 25.67000	1300.0 – 1427.0	8.025 - 8.500
4.17725 – 4.17775	37.50000 – 38.25000	1435.0 – 1626.5	9.000 - 9.200
4.20725 – 4.20775	73.00000 – 74.60000	1645.5 – 1646.5	9.300 – 9.500
6.21500 - 6.21800	74.80000 – 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 - 6.26825	108.00000 – 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 – 6.31225	123.00000 – 138.00000	2200.0 - 2300.0	14.470 – 14.500
8.29100 - 8.29400	149.90000 – 150.05000	2310.0 – 2390.0	15.350 – 16.200
8.36200 - 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 - 8.38675	156.70000 – 156.90000	2655.0 - 2900.0	22.010 – 23.120
8.41425 - 8.41475	162.01250 – 167.17000	3260.0 - 3267.0	23.600 - 24.000
12.29000 - 12.29300	167.72000 – 173.20000	3332.0 - 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 – 285.00000	3345.8 - 3358.0	36.430 - 36.500
12.57675 – 12.57725	322.00000 - 335.40000	3600.0 - 4400.0	Above 38.6
13.36000 - 13.41000			

^{**:} Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

13.1 Labeling Requirement

The device shall bear the following statement in a conspicuous location on the device:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Cerpass Technology Corp. Issued Date : Jul. 17, 2017

Page No. : 111 of 111