# FCC PART 15C TEST REPORT FOR CERTIFICATION On Behalf of

# ASA Electronics Shenzhen Limited

Car Multimedia Player

Model Number: JRV9000

FCC ID: 2AHU2-JRV9000

Prepared for: ASA Electronics Shenzhen Limited				
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Report Number:	ESTE-R1707070
Date of Test:	June 18, ~ July 10, 2017
Date of Report:	July 11, 2017



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**Test Report Verification** 

**Applicant:** ASA Electronics Shenzhen Limited Address: Room 503, 5/F., Unit A, Skyworth Building, Gaoxin Avenue.1.S., Nanshan District, Shen Zhen China Huizhou Foryou General Electronics Co., Ltd Manufacturer: Address: North Shangxia Road, Dongjiang Hi-tech Industry Park, Huizhou, Guangdong Province, 516005, PR China E.U.T: Car Multimedia Player **Model Number:** JRV9000 **Power Supply: DC 12V Test Voltage: DC 12V** Serial No.: Trade Name: **JENSEN Date of Receipt:** June 18, 2017 Date of Test: June 18, ~ July 10, 2017 FCC Rules and Regulations Part 15 Subpart C:2016 **Test Specification:** ANSI C63.10:2013 The device described above is tested by EST Technology Co., Ltd. The measurement results were contained in this test report and EST Technology Co., **Test Result:** Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart C requirements. This report applies to above tested sample only and shall not be part without written approval of EST Technology Co. Prepared by: Reviewed by: Amy / Assistant Seven/Engineer Iceman Hu / Manager Other Aspects: None. Abbreviations: OK/P=passed fail/F=failed *n.a/N=not applicable* E.U.T=equipment under tested This test report is based on a single evaluation of one sample of above mentioned products, It is not permitted to be



duplicated in extracts without written approval of EST Technology Co., Ltd.

# 1. GENERAL INFORMATION

# 1.1. Description of Device (EUT)

Product Name	:	Car Multimedia Player	
FCC ID	:	2AHU2-JRV9000	
Model Number	:	JRV9000	
Operation frequency	:	2402MHz~2480MHz	
Number of channel	:	79	
Antenna	:	Integrated antenna, OdBi gain	
Modulation	:	BT BDR: GFSK BT EDR: π/4-DQPSK BT EDR: 8-DPSK	
Sample Type	:	Prototype production	



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# 2. SUMMARY OF TEST

# 2.1. Summary of test result

Description of Test Item	Standard	Results
Maximum Peak Output Power	FCC Part 15: 15.247(b)(1) DA 00-705	PASS
20dB Bandwidth	FCC Part 15: 15.247a1 DA 00-705	PASS
Carrier Frequency Separation	FCC Part 15: 15.247(a)(1) DA 00-705	PASS
Number Of Hopping Channel	FCC Part 15: 15.247(a)(1)(iii) DA 00-705	PASS
Dwell Time	FCC Part 15: 15.247(a)(1)(iii) DA 00-705	PASS
Radiated Emissions	FCC Part 15: 15.209 FCC Part 15: 15.247(d) ANSI C63.10:2013 DA 00-705	PASS
Band Edge Compliance	FCC Part 15: 15.247(d) DA 00-705	PASS
Power Line Conducted Emissions	FCC Part 15: 15.207 ANSI C63.10:201 DA 00-705	N/A
Antenna requirement	FCC Part 15: 15.203	PASS

Note: 15.207 only signals conducted onto the AC power lines are required to be measured. The equipment is only DC power supply, so "Power Line Conducted Emissions" is not required.



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# 2.2. Test Facilities

EMC Lab	:	Certificated by CNAS, CHINA
ENTO Edo		Registration No.: L5288
		Date of registration: December 07, 2015
		Certificated by FCC, USA
		Registration No.: 989591
		Date of registration: November 15, 2016
		Certificated by Industry Canada
		Registration No.: 9405A-1
		Date of registration: December 30, 2015
		Certificated by VCCI, Japan
		Registration No.: R-3663 & C-4103
		Date of registration: July 25, 2011
		Certificated by TUV Rheinland, Germany
		Registration No.: UA 50195514 0001
		Date of registration: January 07, 2011
		Certificated by TUV/PS, Shenzhen
		Registration No.: SCN1017
		Date of registration: January 27, 2011
		Certificated by Intertek ETL SEMKO
		Registration No.: 2011-RTL-L1-18
		Date of registration: April 28, 2011
		Certificated by Siemic, Inc.
		Registration No.: SLCN021
		Date of registration: November 8, 2011
		Certificated by Nemko, Hong Kong
		Registration No.: 175193
		Date of registration: May 4, 2011
Name of Firm	•	EST Technology Co., Ltd.
Site Location	:	San Tun Management Zone, Houjie Town, Dongguan,
Zito Locuiton		Guangdong, China



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# 2.3. Measurement uncertainty

Test Item	Uncertainty
Uncertainty for Conduction emission test	2.54dB
Uncertainty for Radiation Emission test (30MHz-1GHz)	3.62
Uncertainty for Radiation Emission test (1GHz to 18GHz)	4.86
Uncertainty for radio frequency	7×10-8
Uncertainty for conducted RF Power	0.20dB
Uncertainty for Power density test	0.26dB

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

# 2.4. Assistant equipment used for test

#### 2.4.1. N/A

# 2.5. Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 meter high above ground. EUT was be set into Bluetooth test mode by software before test.



(EUT: Car Multimedia Player)

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# 2.6. Test mode

The test software was used to control EUT work in Continuous TX mode, and select test channel, wireless mode

Mode	Channel	Frequency
	Low	2402MHz
GFSK	Middle	2441MHz
	High	2480MHz
	Low	2402MHz
8-DPSK	Middle	2441MHz
	High	2480MHz

# 2.7. Channel List for Bluetooth

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
No.	(MHz)	No.	(MHz)	No.	(MHz)	No.	(MHz)
1	2402	2	2403	3	2404	4	2405
5	2406	6	2407	7	2408	8	2409
9	2410	10	2411	11	2412	12	2413
13	2414	14	2415	15	2416	16	2417
17	2418	18	2419	19	2420	20	2421
21	2422	22	2423	23	2424	24	2425
25	2426	26	2427	27	2428	28	2429
29	2430	30	2431	31	2432	32	2433
33	2434	34	2435	35	2436	36	2437
37	2438	38	2439	39	2440	40	2441
41	2442	42	2443	43	2444	44	2445
45	2446	46	2447	47	2448	48	2449
49	2450	50	2451	51	2452	52	2453
53	2454	54	2455	55	2456	56	2457
57	2458	58	2459	59	2460	60	2461
61	2462	62	2463	63	2464	64	2465
65	2466	66	2467	67	2468	68	2469
69	2470	70	2471	71	2472	72	2473
73	2474	74	2475	75	2476	76	2477
77	2478	78	2479	79	2480	_	_



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# 2.8. Test Equipment

# 2.8.1. For conducted emission test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESHS30	832354	June 17,17	1 Year
Artificial Mains Networ	Rohde & Schwarz	ENV216	101260	June 17,17	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	101100	June 17,17	1 Year

# 2.8.2. For radiated emission test(9 kHz-30MHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESCI	100435	June 17,17	1 Year
Loop Antenna	ETS-LINDGREN	6502	00071730	June 08,17	1 Year
RF Cable	MIYAZAKI	5D-2W	966 Chamber No.1	June 17,17	1 Year

# 2.8.3. For radiated emissions test (30-1000MHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESVS10	100004	June 17,17	1 Year
Spectrum Analyzer	Agilent	E4411B	MY50140697	June 17,17	1 Year
Bilog Antenna	Teseq	CBL 6111D	27090	June 08,17	1 Year
Signal Amplifier	Agilent	310N	187037	June 17,17	1 Year
RF Cable	MIYAZAKI	5D-2W	966 Chamber No.1	June 17,17	1 Year

# 2.8.4. For radiated emission test(above 1GHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Horn Antenna	SCHWARZB ECK		BBHA9120D1 002	June 17,17	1 Year
Board-Band Horn Antenna	SCHWARZB ECK	BBHA 9170	9170-497	June 08,17	1Year
Signal Amplifier	SCHWARZB ECK	BBV9718	9718-212	June 17,17	1 Year
Spectrum Analyzer	Agilent	E4408B	MY44211139	June 17,17	1 Year
Spectrum Analyzer	Rohde &Schwarz	FSV	103173	June 17,17	1 Year
RF Cable	Hubersuhner	RG 214/U	513423	June 17,17	1 Year

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# 3. MAXIMUM PEAK OUTPUT POWER

## 3.1. Limit

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts, the e.i.r.p shall not exceed 4W

### 3.2. Test Procedure

The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.

# 3.3. Test Result

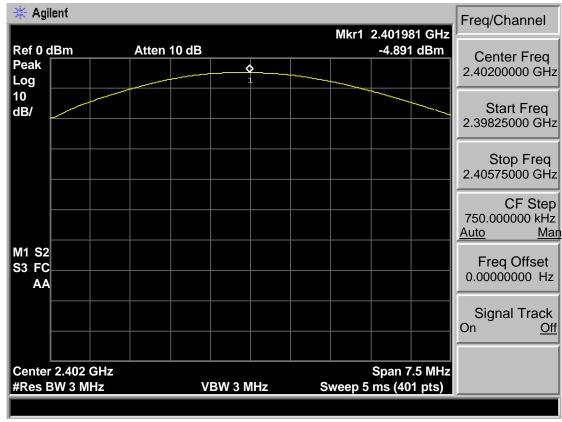
EUT: Car M	ultimedia Pla	ıyer			
M/N: JRV90	00				
Test date: 20	17-06-23	Test site: RF site	Tested b	y: Seven	
Made Freq		Result	L	Limit	
Mode	(MHz)	(dBm)	dBm	W	Conclusion
	2402	-4.891	30.00	1	Pass
GFSK	2441	-5.122	30.00	1	Pass
 	2480	-4.974	30.00	1	Pass
	2402	-5.744	21.00	0.125	Pass
8-DPSK	2441	-5.682	21.00	0.125	Pass
	2480	-5.565	21.00	0.125	Pass



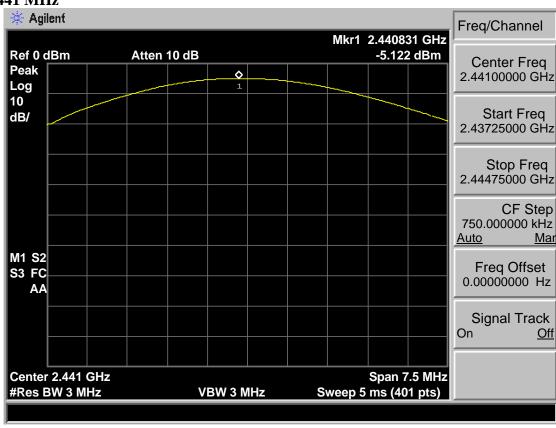
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## 3.4. Test Data

#### GFSK 2402 MHz

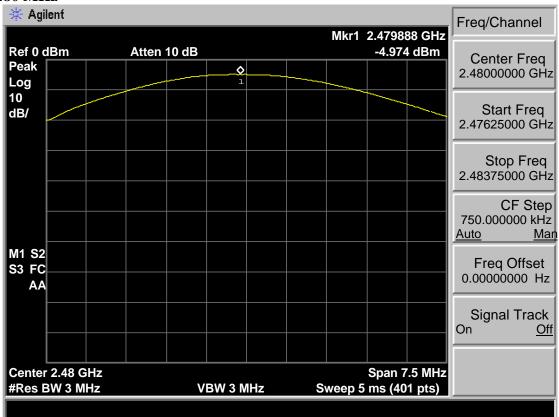


#### **GFSK 2441 MHz**



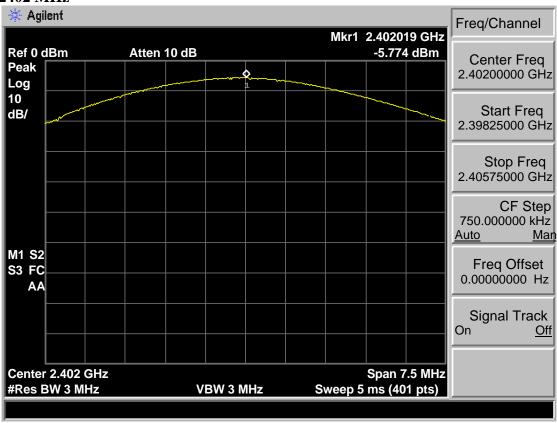


#### GFSK 2480 MHz

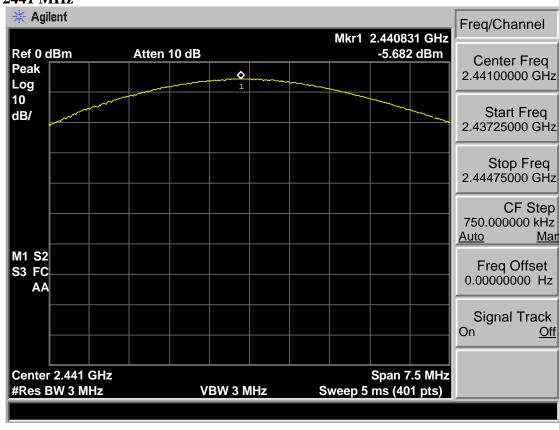




#### 8-DPSK 2402 MHz

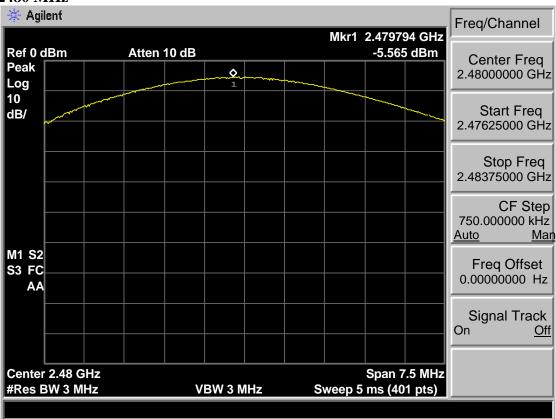


### 8-DPSK 2441 MHz





### 8-DPSK 2480 MHz





#### 4. 20 DB BANDWIDTH

#### 4.1. Limit

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

## 4.2. Test Procedure

The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

#### 4.3. Test Result

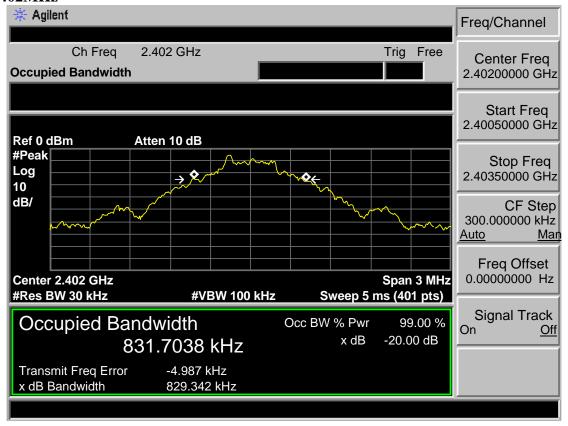
EUT: Car Mı	ıltimedia Pla	yer		
M/N: JRV90	00			
Test date: 20	17-06-23	Test site: RF site	Tested by	: Seven
Mode	Freq (MHz)	20dB Bandwidth (MHz)	Limit (kHz)	Conclusion
	2402	0.829	/	PASS
GFSK	2441	0.828	/	PASS
	2480	0.830	/	PASS
	2402	1.170	/	PASS
8-DPSK	2441	1.166	/	PASS
	2480	1.171	/	PASS



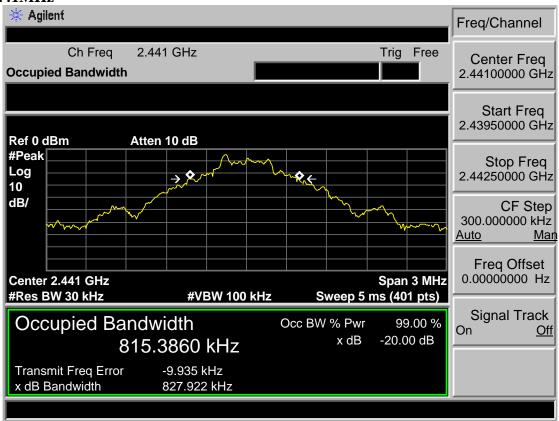
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#### 4.4. Test Data

#### GFSK 2402MHz

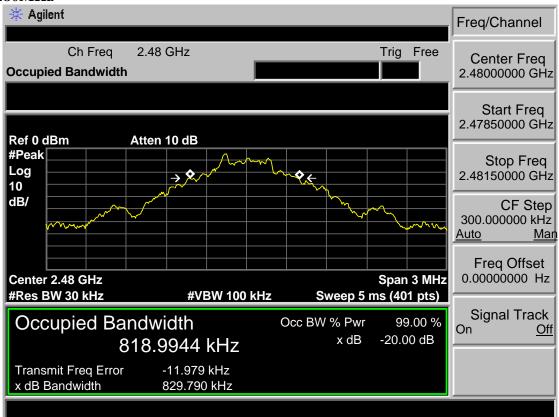


#### GFSK 2441MHz



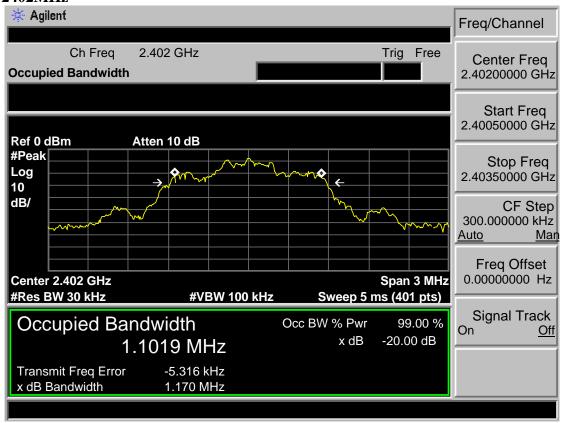


#### GFSK 2480MHz

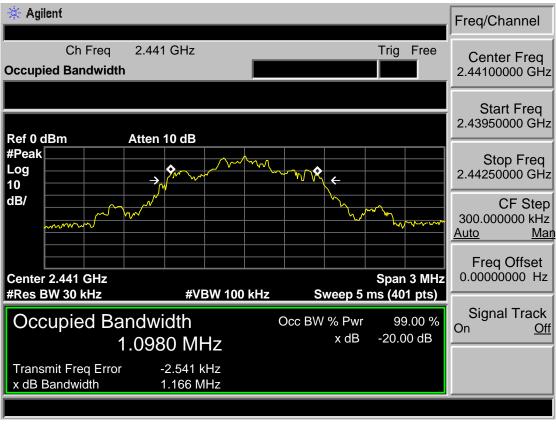




#### 8-DPSK 2402MHz

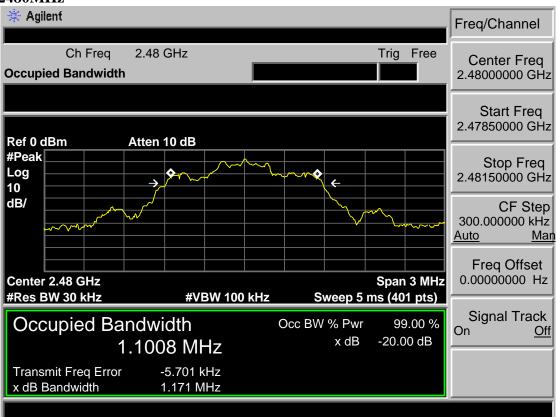


#### 8-DPSK 2441MHz





### 8-DPSK 2480MHz





# 5. CARRIER FREQUENCY SEPARATION

# 5.1. 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.

### 5.2. Test Procedure

The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable. The carrier frequency was measured by spectrum analyzer with 100kHz RBW and 100kHz VBW.

#### 5.3. Test Result

EUT: Car M	Iultimedia Pl	ayer		
M/N: JRV90	000			
Test date: 20	017-06-23		Test site: RF site Tested by: Seven	
Mode	Channel	Channel		
		separation	Limit	Conclusion
		(MHz)		
	Low CH	1.000	0.829	PASS
GFSK	Mid CH	1.000	0.828	PASS
	High CH	1.000	0.830	PASS
	Low CH	1.000	> 2/3 of the 20dB Bandwidth or	PASS
8-DPSK	Mid CH	1.000	25[kHz]( whichever is greater)	PASS
	High CH	1.000	25[KHZ]( WINCHEVEL IS gleater)	PASS

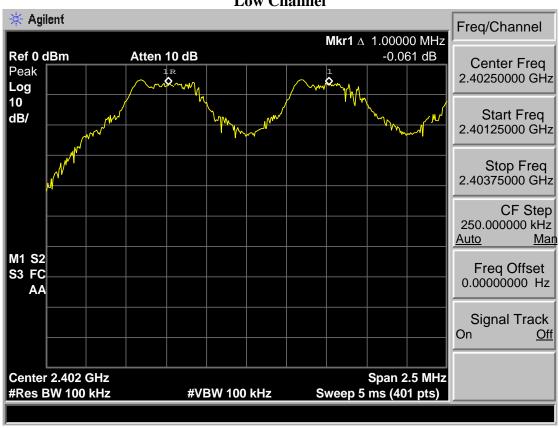


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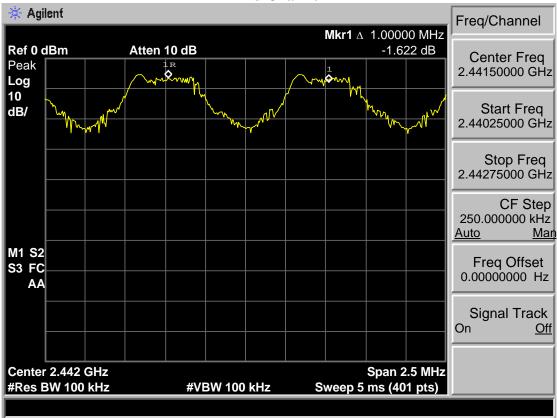
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### 5.4. Test Data

**GFSK**Low Channel

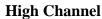


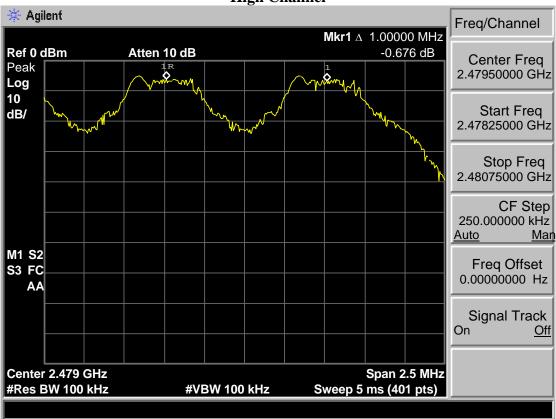
#### **Mid Channel**





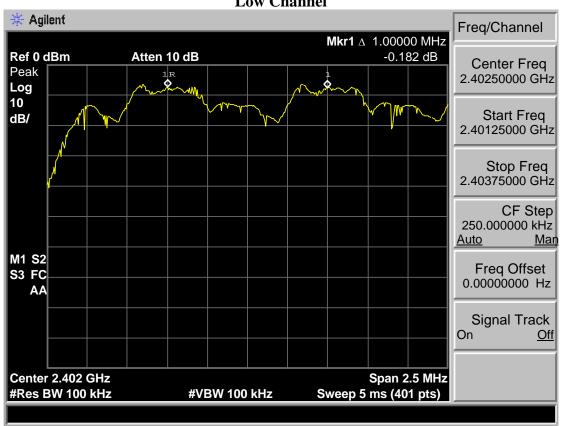
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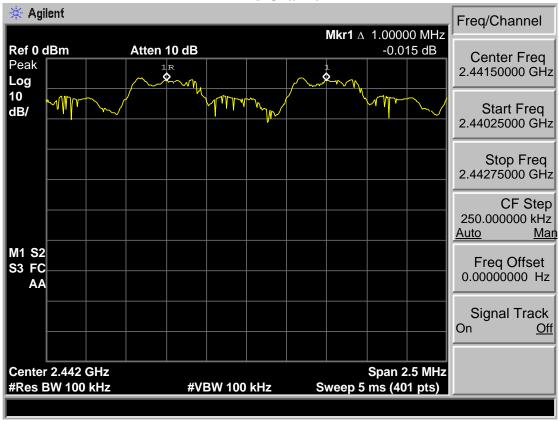




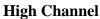
8-DPSK Low Channel

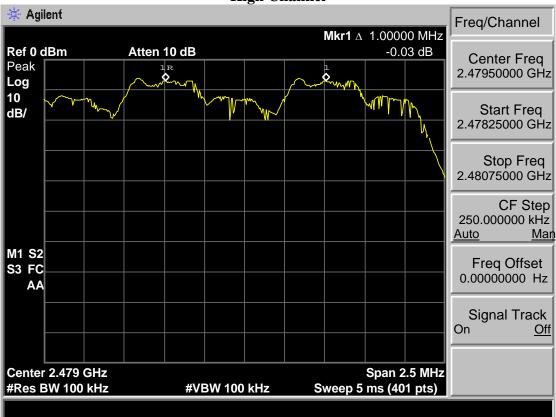


### **Mid Channel**











# 6. NUMBER OF HOPPING CHANNEL

## 6.1. Limit

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

## 6.2. Test Procedure

The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable. The number of hopping channel was measured by spectrum analyzer with 300kHz RBW and 300kHz VBW.

## 6.3. Test Result

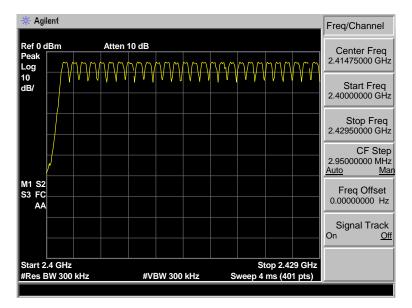
EUT: Car Multimedia Player						
M/N: JRV90	00					
Test date: 20	17-06-23	Test site: RF site	Tested by: Se	ven		
Mode	Number of ho	opping channel	Limit	Conclusion		
GFSK	,	79		PASS		
8-DPSK	,	79	>15	PASS		

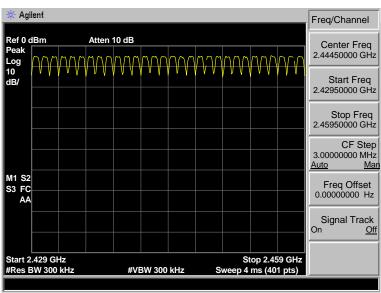


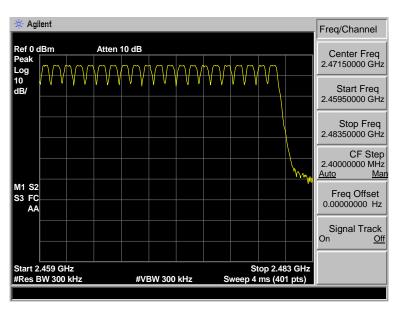
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## 6.4. Test Data

#### **GFSK**



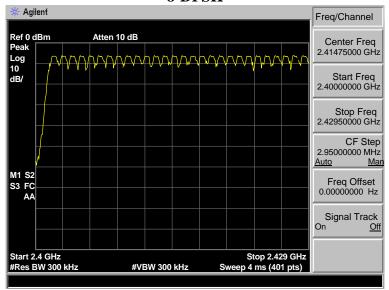


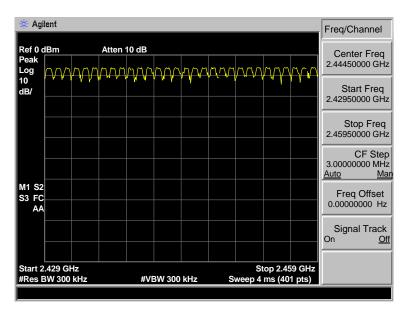


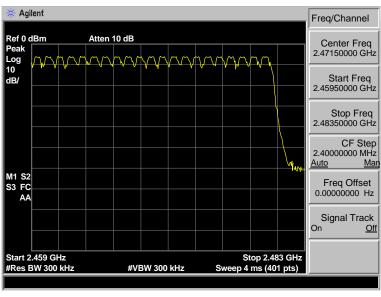


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#### 8-DPSK









# 7. DWELL TIME

## 7.1. 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.

### 7.2. Test Procedure

- 1. The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.
- 2. Set the EUT to proper test mode with relative test software and hardware.
- 3. Spectrum analyzer setting: Centered Frequency = measured channel, RBW = 1MHz, VBW = 1MHz, Frequency Span = 0 Hz.
- 4. Set sweep time properly to capture the entire dwell time per hopping channel.
- 5. Set detector type to Peak and trace mode to Max Hold and make the measurement.
- 6. Repeat step 3-5 until all channels measured were complete.

#### 7.3. Test Result

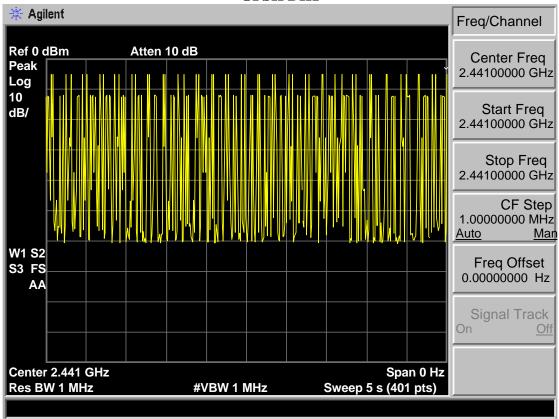
EUT: Car Multim	edia Player					
M/N: JRV9000						
Test date: 2017-06	6-23 Te	est site: RF	site To	ested by: Se	ven	
Mode	Hopping number	Measure time (s)	Burst on time (ms)	Dwell time (ms)	Limit	Conclusion
GFSK DH1	48	5	0.44	133.48	<400ms	PASS
GFSK DH3	27	5	1.66	283.26	<400ms	PASS
GFSK DH5	13	5	2.90	238.26	<400ms	PASS
8-DPSK 3DH1	48	5	0.47	142.58	<400ms	PASS
8-DPSK 3DH3	24	5	1.71	259.37	<400ms	PASS
8-DPSK 3DH5	11	5	2.96	205.78	<400ms	PASS
Dwell time = Hop	ping numbe	r/measure	time *0.4*79*	burst on tim	ie.	

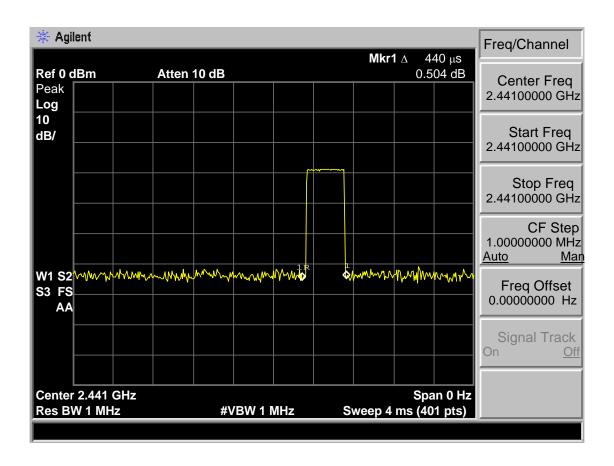


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### 7.4. Test Data

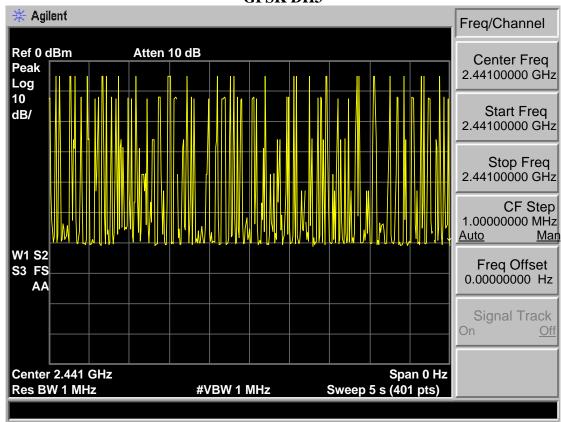
#### **GFSK DH1**

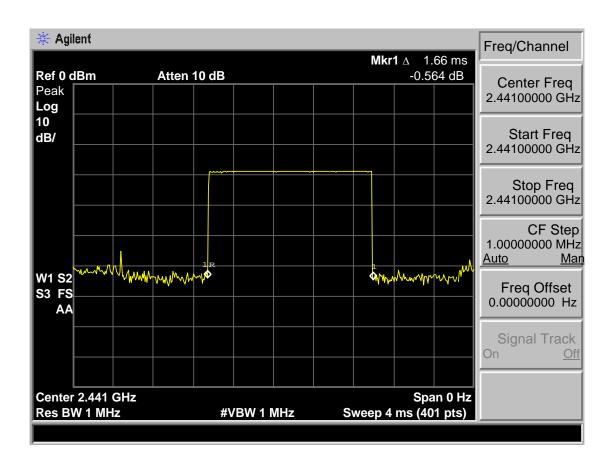






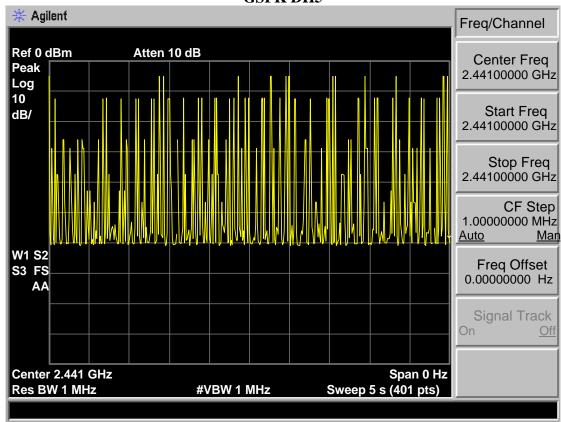
#### **GFSK DH3**

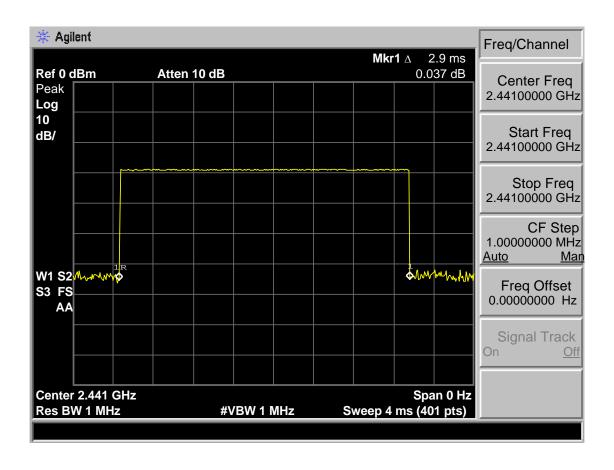






#### **GSFK DH5**

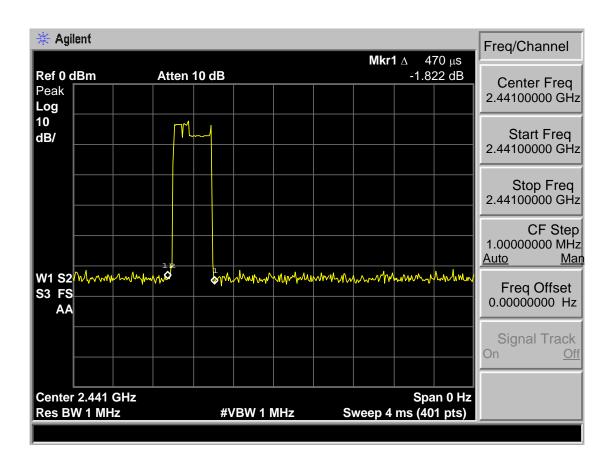






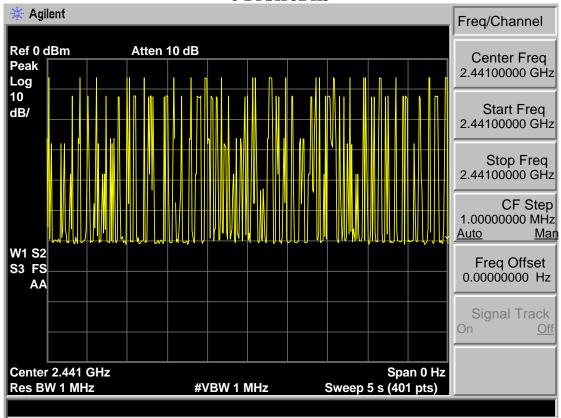
#### **8-DPSK 3DH1**

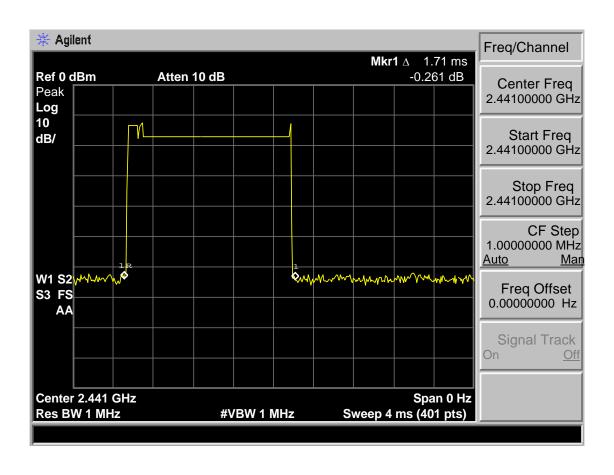






#### **8-DPSK 3DH3**

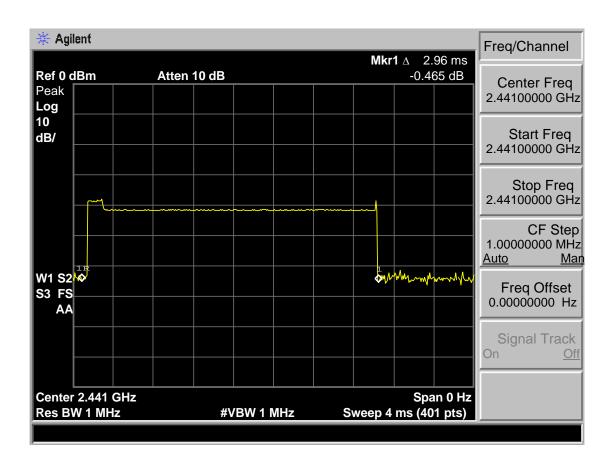






#### **8-DPSK 3DH5**







# 8. RADIATED EMISSIONS

### 8.1. Limit

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
<sup>1</sup> 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	( <sup>2</sup> )

15.209 Limit

Frequency (MHz)	Field strength (μV/m)	Distance (m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark : (1) Emission level  $dB\mu V = 20 \log Emission level \mu V/m$ 

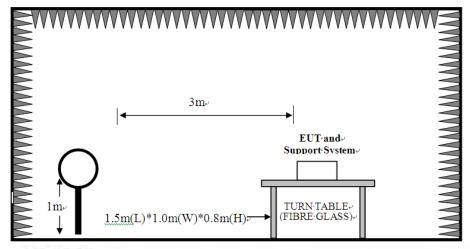
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.



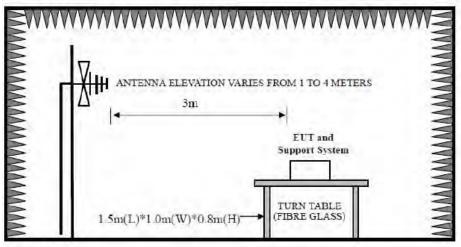
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# 8.2. Block Diagram of Test setup

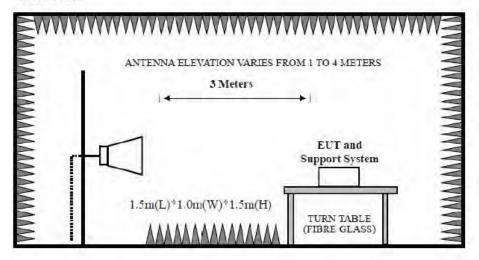
9kHz~30MHz



30~1000MHz



Above 1GHz





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## 8.3. Test Procedure

EUT was placed on a turn table, which is 0.8 meter high above ground for 9kHz~1000MHz test, and which is 1.5 meter high above ground for above 1GHz test. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

The test frequency analyzer system was set to Peak Detect (300Hz RBW in 9kHz to 150kHz and 10kHz RBW in 150kHz to 30MHz) Function and Specified Bandwidth with Maximum Hold Mode.

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's VBW is set at 1MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz

PEAK detector, 1MHz/1MHz for PAEK measurement,

PEAK detector, 1MHz/10Hz for Average measurement

The frequency range from 30MHz to 10th harmonic (25GHz) are checked.

#### 8.4. Test Result

Pass

Note: 1. For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.

2. The frequency 2402MHz \ 2441MHz and 2480MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.



# 8.5. Test Data

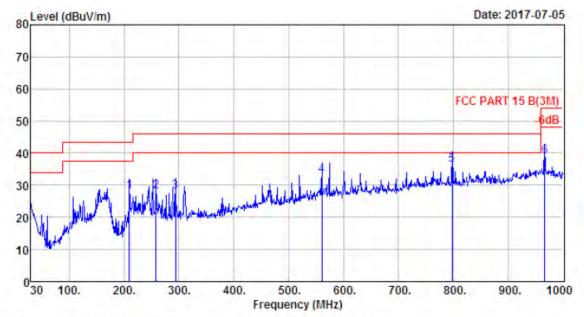
9 kHz – 30 MHz

Pass

Note: The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.



## 30 MHz - 1000 MHz



Site no. : 1# 966 chamber Data no. : 577 : 3m 27137 : FCC PART 15 B(3M) Dis. / Ant. Ant. pol. : VERTICAL

Limit

Env. / Ins. : Temp:27.5'; Humi:50%; Press:101.52kPa

Engineer : Tony

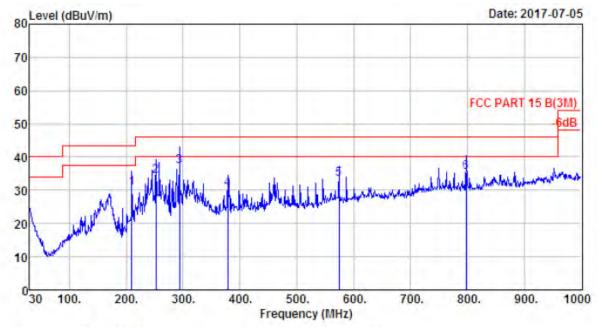
: Car Multimedia Player EUT

: DC 12V Power M/N : JVR9000

: GFSK TX 2402Hz Test Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	209.45	8.37	1.91	17.69	27.97	43.50	15.53	QP
2	257.95	12.75	2.19	12.99	27.93	46.00	18.07	QP
3	293.84	12,92	2,33	12.81	28.06	46.00	17.94	QP
4	560.59	19.70	3.22	10.07	32.99	46.00	13.01	QP
5	798.24	22.03	3.92	10.37	36.32	46.00	9.68	QP
6	967.02	24.55	4.59	9.81	38.95	54.00	15.05	QP





Site no. : 1# 966 chamber Data no. : 578
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:27.5'; Humi:50%; Press:101.52kPa

Engineer : Tony

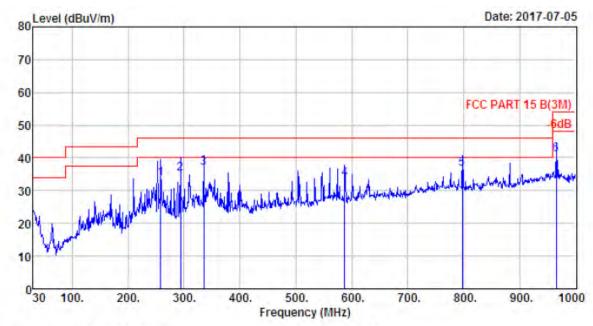
EUT : Car Multimedia Player

Power : DC 12V M/N : JVR9000

Test Mode : GFSK TX 2402Hz

	Freq.	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	209.45	8.37	1.91	20.44	30.72	43.50	12.78	QP
2	252.13	12.06	2.18	19.95	34.19	46.00	11.81	QF
3	293.84	12.92	2.33	21.96	37.21	46.00	8.79	QF
4	378.23	14.98	2.62	12.86	30.46	46.00	15.54	QP
5	574.17	19.56	3.37	10.35	33.28	46,00	12.72	QP
6	798.24	22.03	3.92	9.53	35.48	46.00	10.52	QP





Site no. : 1# 966 chamber Dis. / Ant. : 3m 27137 Data no. : 579 Ant. pol. : HORIZONTAL

: FCC PART 15 B (3M) Limit

Env. / Ins. : Temp:27.5'; Humi:50%; Press:101.52kPa

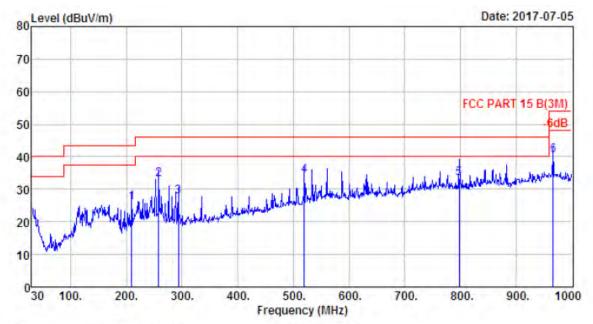
: Tony Engineer

EUT : Car Multimedia Player

: DC 12V Power M/N : JVR9000 Test Mode : GFSK TX 2441Hz

	Freq.	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	257.95	12.75	2.19	18.66	33.60	46.00	12.40	QP
2	293.84	12.92	2.33	19.94	35.19	46.00	10.81	QF
3	335.55	14.02	2.50	20.25	36.77	46.00	9.23	QP
4	587.75	19.44	3.40	10.93	33.77	46.00	12,23	QP
5	798.24	22.03	3.92	10.78	36.73	46.00	9.27	QP
- 6	966.03	24.54	4.61	11.83	40.98	54.00	13.02	QP





Site no. : 1# 966 chamber Data no. : 580
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : Temp:27.5'; Humi:50%; Press:101.52kPa

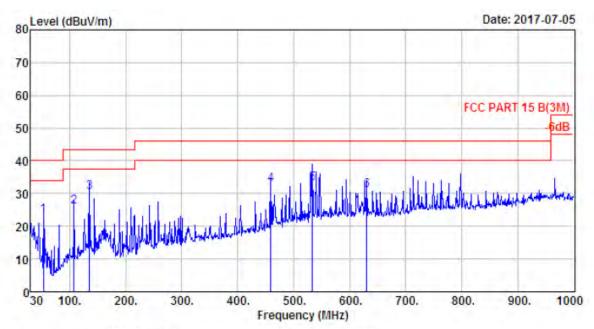
Engineer : Tony

EUT : Car Multimedia Player

Power : DC 12V M/N : JVR9000 Test Mode : GFSK TX 2441Hz

	Freq.	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	209.45	8.37	1.91	15.72	26.00	43.50	17.50	QP
2	257.95	12.75	2.19	18.13	33.07	46.00	12.93	QP
3	293.84	12.92	2.33	12.38	27.63	46.00	18.37	QP
4	519.85	17.96	3.17	13.15	34.28	46.00	11.72	QP
5	798,24	22.03	3.92	7.45	33.40	46.00	12.60	QP
6	967.02	24.55	4.59	11.30	40.44	54.00	13.56	QP





Site no. : 1# 966 Chamber Data no. : 581
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:27.5'; Humi:50%; Press:101.52kPa

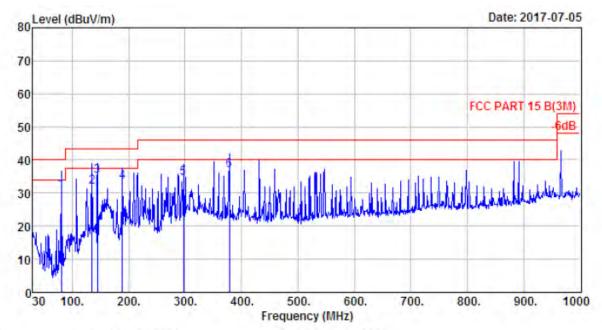
Engineer : Tony

EUT : Car Multimedia Player

Power : DC 12V M/N : JRV9000 Test Mode : GFSK IX 2480Hz

	Freq.	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	53.28	6.11	0.91	16.25	23.27	40.00	16.73	QP
2	107.60	10.24	1.39	14.40	26.03	43.50	17.47	QP
3	134.76	11.37	1.57	17.50	30.44	43.50	13.06	QP
4	458.74	16.80	3.00	12.93	32.73	46.00	13.27	QP
5	533.43	18.68	3.29	11.07	33.04	46.00	12.96	QP
6	630.43	20.17	3.48	7.44	31.09	46.00	14.91	QP





Site no. : 1# 966 Chamber Data no. : 582
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:27.5'; Humi:50%; Press:101.52kPa

Engineer : Tony

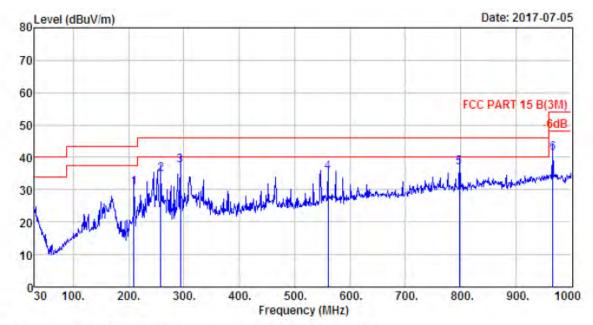
EUI : Car Multimedia Player

Power : DC 12V M/N : JRV9000

Test Mode : GFSK TX 2480Hz

	Freq.	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	80.44	7.07	1.25	22.27	30.59	40.00	9.41	QP
2	134.76	11.37	1.57	18.91	31.85	43.50	11.65	QP
3	144.46	11.26	1.54	22.21	35.01	43.50	8.49	QP
4	189.08	8.05	1.75	23.63	33.43	43.50	10.07	QP
5	296.75	12.99	2.32	19.24	34.55	46.00	11.45	QP
6	378.23	14.98	2.62	19.34	36.94	46.00	9.06	QP





Data no. : 583

Site no. : 1# 966 chamber Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : Temp:27.5'; Humi:50%; Press:101.52kPa

Engineer : Tony

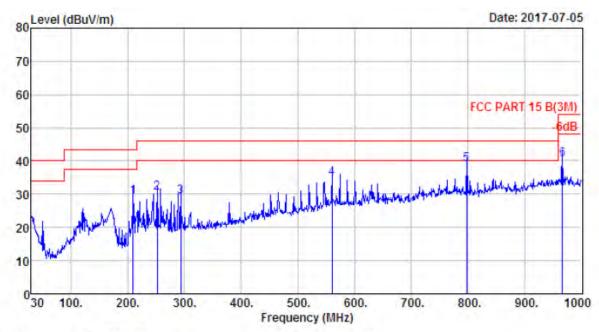
EUI : Car Multimedia Player

: DC 12V Power : JVR9000 M/N

Test Mode : 8-DPSK TX 2402Hz

	Freq.	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	209.45	8.37	1.91	20.38	30.66	43.50	12.84	QF
2	257.95	12.75	2.19	19.83	34.77	46.00	11.23	QP
3	293.84	12.92	2.33	22.27	37.52	46.00	8.48	QP
4	560.59	19.70	3.22	12.39	35.31	46.00	10.69	QP
5	798.24	22.03	3.92	10.86	36.81	46.00	9.19	QP
6	967.02	24.55	4.59	12.23	41.37	54.00	12.63	QP





Site no. : 1# 966 chamber Data no. : 584
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:27.5'; Humi; 50%; Press:101.52kPa

Engineer : Tony

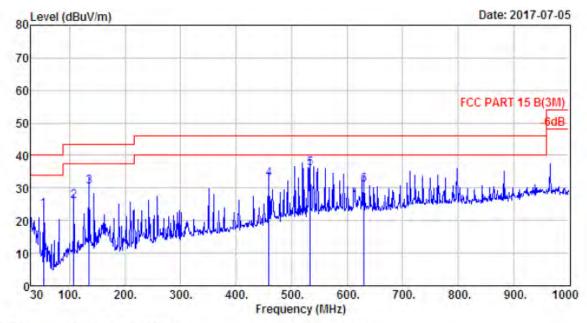
EUI : Car Multimedia Player

Power : DC 12V M/N : JVR9000

Test Mode : 8-DPSK TX 2402Hz

	Freq.	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	209.45	8.37	1,91	19.02	29.30	43.50	14.20	QP
2	252.13	12.06	2.18	16.23	30.47	46.00	15.53	QP
3	293.84	12.92	2.33	13.89	29.14	46.00	16.86	QP
4	560,59	19,70	3.22	11.77	34.69	46.00	11.31	QP
5	798.24	22.03	3,92	13.08	39.03	46.00	6.97	QP
6	967.02	24.55	4.59	11.34	40.48	54.00	13.52	QP





Site no. : 1# 966 Chamber Data no. : 585
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : Temp:27.5'; Humi:50%; Press:101.52kPa

Engineer : Tony

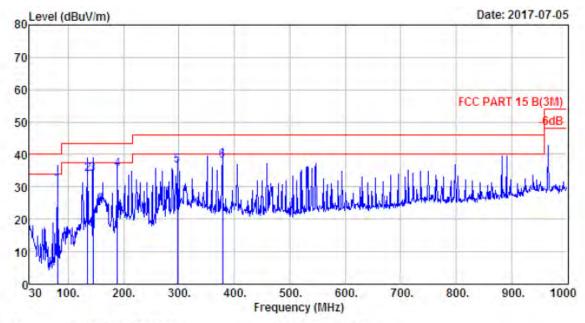
EUT : Car Multimedia Player

Power : DC 12V M/N : JRV9000

Test Mode : 8-DPSK TX 2441Hz

	Freq.	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	53.28	6.11	0.91	16.25	23.27	40.00	16.73	QP
2	107.60	10.24	1.39	14.40	26.03	43.50	17.47	QP
3	134.76	11.37	1.57	17.50	30.44	43.50	13.06	QP
4	458.74	16.80	3.00	12.93	32.73	46.00	13.27	QP
5	533.43	18.68	3.29	14.07	36.04	46.00	9.96	QP
6	630.43	20.17	3.48	7.44	31.09	46.00	14.91	QF





Site no. : 1# 966 Chamber

Data no. : 586 Ant. pol. : HORIZONTAL Dis. / Ant. : 3m 27137

Limit : FCC PART 15 B (3M)

: Temp:27.5'; Humi:50%; Press:101.52kPa Env. / Ins.

Engineer : Tony

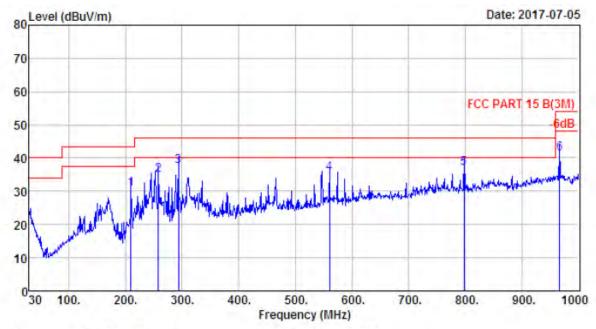
EUI : Car Multimedia Player

: DC 12V Power M/N : JRV9000

Test Mode : 8-DPSK TX 2441Hz

	Freq.	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	80.44	7.07	1.25	22.27	30.59	40.00	9.41	QP
2	134.76	11.37	1.57	20.91	33.85	43.50	9.65	QP
3	144.46	11.26	1.54	21.21	34.01	43.50	9.49	QP
4	189.08	8.05	1.75	25.63	35.43	43.50	8.07	QP
5	296.75	12.99	2.32	21.24	36.55	46.00	9.45	QP
6	378.23	14.98	2.62	20.34	37.94	46.00	8.06	QP





Site no. : 1# 966 chamber Data no. : 587
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:27.5'; Humi:50%; Press:101.52kPa

Engineer : Tony

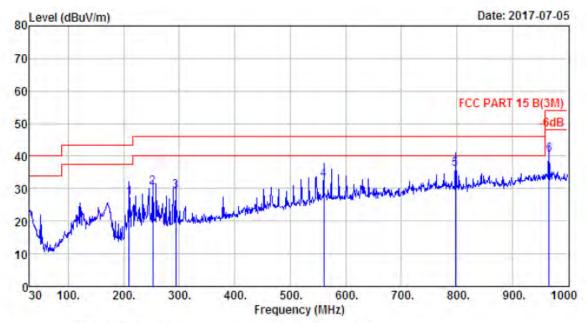
EUT : Car Multimedia Player

Power : DC 12V M/N : JVR9000

Test Mode : 8-DPSK TX 2480Hz

	Freq.	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	209.45	8.37	1,91	20.38	30.66	43.50	12.84	QP
2	257.95	12.75	2.19	19.83	34.77	46.00	11.23	QP
3	293.84	12.92	2.33	22.27	37.52	46.00	8.48	QP
4	560,59	19,70	3.22	12.39	35.31	46.00	10.69	QP
5	798.24	22.03	3,92	10.86	36.81	46.00	9.19	QP
6	967.02	24.55	4.59	12.23	41.37	54.00	12.63	QP





Site no. : 1# 966 chamber Data no. : 588
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : Temp:27.5'; Humi:50%; Press:101.52kPa

Engineer : Tony

EUT : Car Multimedia Flayer

Power : DC 12V M/N : JVR9000

Test Mode : 8-DPSK TX 2480Hz

	Freq.	ANT Factor (dB/m)	Cable Loss (dB)	Réading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	209.45	8.37	1.91	17.02	27.30	43.50	16.20	QP
2	252.13	12.06	2.18	16.23	30.47	46.00	15.53	QP
3	293.84	12.92	2.33	13.89	29.14	46.00	16.86	QP
4	560.59	19.70	3.22	9.77	32.69	46.00	13.31	QF
5	798.24	22.03	3.92	10.08	36.03	46.00	9.97	QP
6	967.02	24.55	4.59	11.34	40.48	54.00	13.52	QP



#### Above 1000 MHz

Site no. : 1# 966 Chamber Data no. : 396 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

: FCC PART 15C PEAK

Env. / Ins. : Temp:26.6'; Humi:59.3%; Press:101.52kPa
Engineer : Seven

: Car Multimedia Player EUT

Power : DC 12V M/N : JRV9000 : JRV9000

Test Mode : GFSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1306.00	25.02	3.99	34.88	44.81	38.94	74.00	35.06	Peak
2	2402.00	27.61	6.62	34.64	86.87	86.46	74.00	-12.46	Peak
3	4804.00	31.25	11.77	35.64	32.60	39.98	74.00	34.02	Peak
4	7206.00	36.52	11.54	33.95	31.86	45.97	74.00	28.03	Peak
5	8684.00	37.32	11.45	33.66	33.45	48.56	74.00	25.44	Feak
6	13954.00	41.35	10.96	32.99	33.28	52.60	74.00	21.40	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.

2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Dis. / Ant. : 3m ANT 1-18G Data no. : 397

Ant. pol. : HORIZONTAL

: FCC PART 15C PEAK Limit

Env. / Ins. : Temp:26.6'; Humi:59.3%; Press:101.52kPa

Engineer : Seven

: Car Multimedia Player EUT

: DC 12V Power : DC 12V M/N : JRV9000

Test Mode : GFSK TX 2402MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1136.00	24.24	3.68	35.23	48.08	40.77	74.00	33.23	Peak
2	2402.00	27.61	6.62	34.64	88.84	88.43	74.00	-14.43	Peak
3	4804.00	31.25	11.77	35.64	32.10	39.48	74.00	34.52	Peak
4	7206.00	36.52	11.54	33.95	32.26	46.37	74.00	27.63	Peak
5	8786.00	37.48	11.46	33.90	32.59	47.63	74.00	26.37	Peak
6	13954.00	41.35	10.96	32.99	33.22	52.54	74.00	21.46	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



Site no. : 1# 966 Chamber Data no. : 398

Dis. / Ant. : 3m ANT 1-18G
Limit : FCC PART 15C PEAK Ant. pol. : HORIZONTAL

Env. / Ins. : Temp:26.6'; Humi:59.3%; Press:101.52kPa Engineer : Seven

EUT : Car Multimedia Player

: DC 12V Power M/N : JRV9000

Test Mode : GFSK TX 2441MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	27.60	6.67	34.85	88.02	87.44	74.00	-13.44	Peak
2	4882.00	31.37	12.07	35.76	31.87	39.55	74.00	34.45	Peak
3	7323.00	36.55	11.57	34.14	32.31	46.29	74.00	27.71	Peak
4	8701.00	37.35	11.45	33.65	32.13	47.28	74.00	26.72	Peak
5	11234.00	39.37	11.12	33.25	31.79	49.03	74.00	24.97	Peak
6	13784.00	40.88	11.16	33.05	32.68	51.67	74.00	22.33	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.

2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Dis. / Ant. : 3m ANT 1-18G Data no. : 399 Ant. pol. : VERTICAL

: FCC PART 15C PEAK Limit

Env. / Ins. : Temp:26.6'; Humi:59.3%; Press:101.52kPa

Engineer : Seven

EUT : Car Multimedia Player

Power ; DC 12V M/N : JRV9000

Test Mode : GFSK TX 2441MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	27.60	6.67	34.85	88.84	88.26	74.00	-14.26	Peak
2	4882.00	31.37	12.07	35.76	32.78	40.46	74.00	33.54	Peak
3	7323.00	36.55	11.57	34.14	32.96	46.94	74.00	27.06	Peak
4	8514.00	36.96	11.45	34.07	34.58	48.92	74.00	25.08	Peak
5	11200.00	39.39	11.14	33.24	32.24	49.53	74.00	24.47	Feak
6	14005.00	41.46	10.90	33.01	33.78	53.13	74.00	20.87	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



Site no. : 1# 966 Chamber Data no. : 400 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:26.6'; Humi:59.3%; Press:101.52kPa

: Seven Engineer

: Car Multimedia Player EUT

Power : DC 12V M/N : JRV9000

Test Mode : GFSK TX 2480MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1306.00	25.02	3.99	34.88	44.06	38.19	74.00	35.81	Peak
2	2480.00	27.58	6.71	35.11	89.28	88.46	74.00	-14.46	Peak
3	4960.00	31.49	12.44	36.01	32.10	40.02	74.00	33.98	Peak
4	7440.00	36.54	11.61	34.22	32.72	46.65	74.00	27.35	Peak
5	11200.00	39.39	11.14	33.24	33.37	50.66	74.00	23.34	Peak
6	14090.00	41.54	10.91	33.13	33.29	52.61	74.00	21.39	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.

2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Dis. / Ant. : 3m ANT 1-18G Data no. : 401

Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:26.6'; Humi:59.3%; Press:101.52kPa

Engineer : Seven
EUT : Car Multimedia Player

: DC 12V : JRV9000 Power M/N

Test Mode : GFSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	27.58	6.71	35.11	87.26	86.44	74.00	-12.44	Peak
2	4960.00	31.49	12.44	36.01	31.56	39.48	74.00	34.52	Peak
3	7440.00	36.54	11.61	34.22	31.96	45.89	74.00	28.11	Peak
4	9160.00	37.69	11.54	34.07	31.88	47.04	74.00	26.96	Peak
5	10775.00	39.28	11.30	34.02	31.67	48.23	74.00	25.77	Peak
6	14260.00	41.68	10.92	33.42	33.02	52.20	74.00	21.80	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



Site no. : 1# 966 Chamber Data no. : 402
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERD
Limit : FCC PART 15C PEAK Ant. pol. : VERTICAL

Env. / Ins. : Temp:26.6'; Humi:59.3%; Press:101.52kPa

Engineer : Seven

EUT : Car Multimedia Player

: DC 12V Power M/N : JRV9000 Test Mode : 8-DPSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1884.00	25.28	5.75	35.23	49.44	45.24	74.00	28.76	Peak
2	2402.00	27.61	6.62	34.64	85.86	85.45	74.00	-11.45	Peak
3	4804.00	31.25	11.77	35.64	31.93	39.31	74.00	34.69	Peak
4	7206.00	36.52	11.54	33.95	32.08	46.19	74.00	27.81	Peak
5	11676.00	39.00	11.09	33.24	32.46	49.31	74.00	24.69	Peak
6	14124.00	41.57	10.91	33.22	33.36	52.62	74.00	21.38	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.

2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 403 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORI Ant. pol. : HORIZONTAL

: FCC PART 15C PEAK

Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:26.6'; Humi:59.3%; Press:101.52kPa

Engineer : Seven
FUT : Car Multimedia Player

Power : DC 12V
M/N : JRV9000
Test Mode : 8-DPSK IX 2402MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	27.61	6.62	34.64	85,16	84.75	74.00	-10.75	Peak
2	4804.00	31.25	11.77	35.64	32.14	39.52	74.00	34.48	Peak
3	7206.00	36.52	11.54	33.95	33.25	47.36	74.00	26.64	Peak
4	11370.00	39.28	11.02	33.51	33.23	50.02	74.00	23.98	Peak
5	13886.00	41.16	11.04	33.03	33.57	52.74	74.00	21.26	Peak
6	17320.00	40.91	10.87	31.31	30.94	51.41	74.00	22.59	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



Site no. : 1# 966 Chamber
Dis. / Ant. : 3m ANT 1-18G
Limit : FCC PART 15C PEAK Data no. : 404 Ant. pol. : VERTICAL

Env. / Ins. : Temp:26.6'; Humi:59.3%; Press:101.52kPa
Engineer : Seven

: Car Multimedia Player EUT

Power : DC 12V : JRV9000 M/N

Test Mode : 8-DPSK TX 2441MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	27.60	6.67	34.85	87.22	86.64	74.00	-12.64	Peak
2	4882.00	31.37	12.07	35.76	31.52	39.20	74.00	34.80	Peak
3	7323.00	36.55	11.57	34.14	32.60	46.58	74.00	27.42	Peak
4	9245.00	37.83	11.58	34.37	32.57	47.61	74.00	26.39	Peak
5	11455.00	39.23	10.96	33.53	32.88	49.54	74.00	24.46	Peak
6	14090.00	41.54	10.91	33.13	33.31	52.63	74.00	21.37	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.

2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Dis. / Ant. : 3m ANT 1-18G Data no. : 405

Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL Limit : FCC PART 15C PEAK Env. / Ins. : Temp:26.6';Humi:59.3%;Press:101.52kPa

: Seven Engineer

EUT : Car Multimedia Player

Power : DC 12V : JRV9000 M/N

Test Mode : 8-DPSK TX 2441MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	27.60	6.67	34.85	87.04	86.46	74.00	-12.46	Peak
2	4882.00	31.37	12.07	35.76	32.08	39.76	74.00	34.24	Peak
3	7323.00	36.55	11.57	34.14	32.26	46.24	74.00	27.76	Peak
4	9245.00	37.83	11.58	34.37	32.41	47.45	74.00	26.55	Peak
5	11166.00	39.41	11.17	33.31	31.98	49.25	74.00	24.75	Feak
6	14056.00	41.51	10.90	33.06	33.29	52.64	74.00	21.36	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



Site no. : 1# 966 Chamber Data no. : 406 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORI Ant. pol. : HORIZONTAL

: FCC PART 15C PEAK

Env. / Ins. : Temp:26.6'; Humi:59.3%; Press:101.52kPa

: Seven Engineer

: Car Multimedia Player EUT

: DC 12V Power

M/N : JRV9000 Test Mode : 8-DPSK TX 2480MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	27.58	6.71	35.11	87.94	87.12	74.00	-13.12	Peak
2	4960.00	31.49	12.44	36.01	32.48	40.40	74.00	33.60	Peak
3	7440.00	36.54	11.61	34.22	32.87	46.80	74.00	27.20	Peak
4	10299.00	38.62	11.42	34.50	32.41	47.95	74.00	26.05	Peak
5	12186.00	38.67	11.22	33.58	31.91	48.22	74.00	25.78	Peak
6	14175.00	41.61	10.91	33,35	34.09	53.26	74.00	20.74	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.

2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Dis. / Ant. : 3m ANT 1-18G Data no. : 407 Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:26.6'; Humi:59.3%; Press:101.52kPa

: Seven Engineer

EUT : Car Multimedia Player

: DC 12V Power M/N : JRV9000

Test Mode : 8-DPSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	27.58	6.71	35.11	86,63	85.81	74.00	-11.81	Peak
2	4960.00	31.49	12.44	36.01	32.41	40.33	74.00	33.67	Peak
3	7440.00	36.54	11.61	34.22	29.05	42.98	74.00	31.02	Peak
4	9160.00	37.69	11.54	34.07	32.58	47.74	74.00	26.26	Peak
5	10894.00	39.41	11.29	34.05	32.35	49.00	74.00	25.00	Peak
6	14260.00	41.68	10.92	33.42	33.01	52.19	74.00	21.81	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



## 18000MHz - 25000MHz

Pass

Note: The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

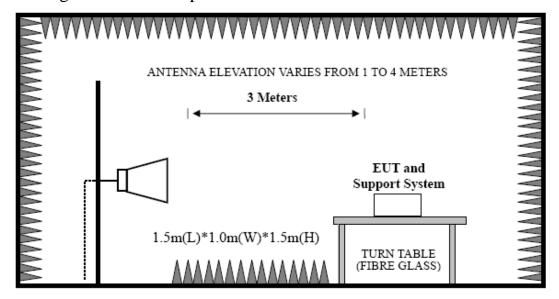


## 9. BAND EDGE COMPLIANCE

## 9.1. Limit

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

## 9.2. Block Diagram of Test setup



## 9.3. Test Procedure

EUT was placed on a turn table, which is 1.5 m high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

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

Peak: RBW = 1MHz, VBW = 1MHz, Detector=PEAK detector, Sweep time = auto. AV: RBW = 1MHz, VBW = 10Hz, Detector=PEAK detector, Sweep time = auto.

## 9.4. Test Result

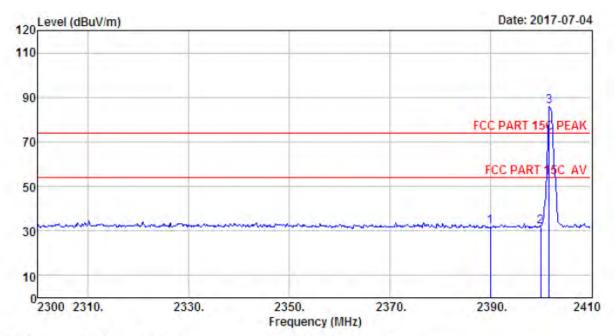
Pass (The testing data was attached in the next pages.)

Note: 1. For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.

2. The frequency 2402MHz . 2441MHz and 2480MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.



## 9.5. Test Data



Site no. : 1# 966 Chamber Data no. : 408

Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:26.6'; Humi:59.3%; Press:101.52kPa

Engineer : Seven

EUT : Car Multimedia Player

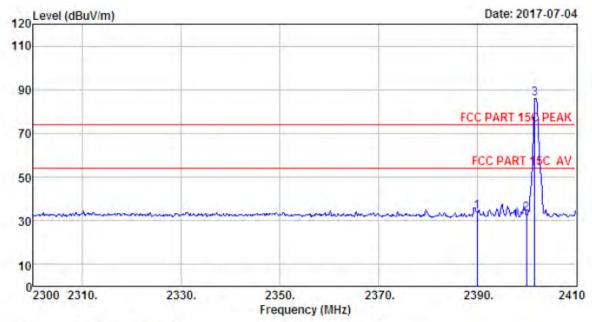
Power : DC 12V M/N : JRV9000

Test Mode : GFSK TX 2402MHz (No Hopping)

	Freq. (MHz)	Ant. Factor (dB/m)			Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.64	6.62	34.62	32.16	31.80	74.00	42.20	Peak
2	2400.00	27.61	6.62	34.64	32.07	31.66	74.00	42.34	Peak
3	2401.75	0.00	0.00	0.00	85.96	85.96	74.00	-11.96	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 Chamber Data no. : 409
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:26.6'; Humi:59.3%; Press:101.52kPa

Engineer : Seven

EUT : Car Multimedia Player

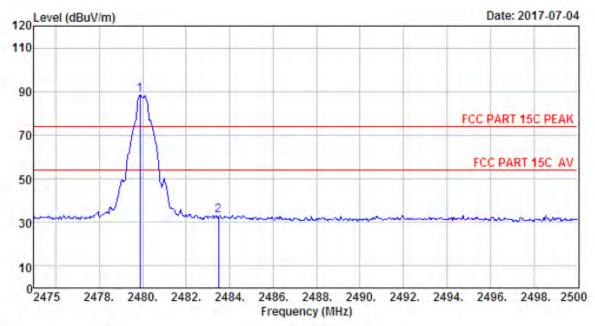
Power : DC 12V M/N : JRV9000

Test Mode : GFSK TX 2402MHz (No Hopping)

	Freq. (MHz)	Ant. Factor (dB/m)			Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.64	6.62	34.62	34.67	34.31	74.00	39.69	Peak
2	2400.00	27.61	6.62	34.64	33.46	33.05	74.00	40.95	Peak
3	2401.75	27.61	6.62	34.64	86.50	86.09	74.00	-12.09	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. ; site

Data no. : 410 Ant. pol. : HORIZONTAL Dis. / Ant. : 3m ANT 1-18G Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:26.6'; Humi:59.3%; Press:101.52kPa

: Seven Engineer

EUT : Car Multimedia Player

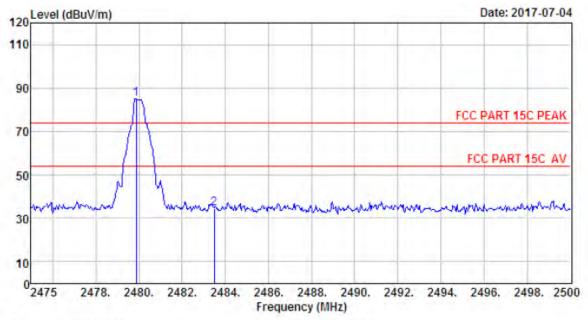
Power : DC 12V M/N : JRV9000

Test Mode : GFSK TX 2480MHz (No Hopping)

			Cable			Emission		Tarris and	227745
	Freq.	Factor (dB/m)		Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.88	27.58	6.71	35.11	89.33	88.51	74.00	-14.51	Peak
2	2483.50	27.58	6.71	35.11	33,86	33.04	74.00	40,96	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 Chamber Data no. : 411 Ant. pol. : VERTICAL Dis. / Ant. : 3m ANT 1-18G

: FCC PART 15C PEAK

Env. / Ins. : Temp:26.6'; Humi:59.3%; Press:101.52kPa

Engineer : Seven

: Car Multimedia Player EUT

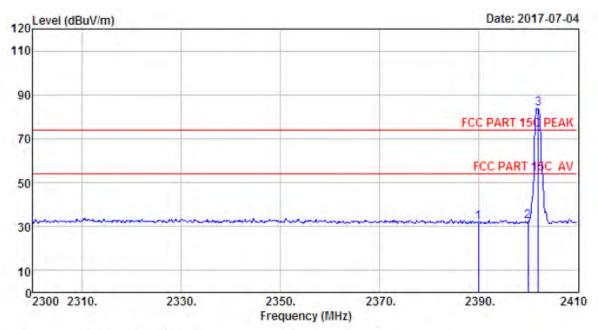
Power : DC 12V

M/N : JRV9000 Test Mode : GFSK TX 2480MHz (No Hopping)

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.88	27.58	6.71	35.11	85.87	85.05	74.00	-11.05	Peak
2	2483.50	27.58	6.71	35.11	35.38	34.56	74.00	39.44	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 Chamber Data no. : 412

: 3m ANT 1-18G Dis. / Ant. Ant. pol. : HORIZONTAL

: FCC PART 15C PEAK Limit

: Temp:26.6';Humi:59.3%;Press:101.52kPa : Seven Env. / Ins.

Engineer

: Car Multimedia Player EUT

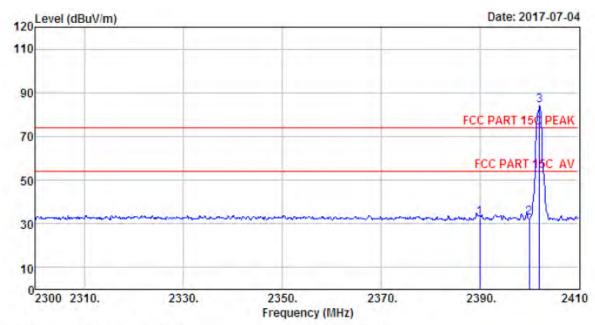
: DC 12V Power M/N : JRV9000

Test Mode : 8-DPSK IX 2402MHz (No Hopping)

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.64	6.62	34.62	32.06	31,70	74.00	42,30	Peak
2	2400.00	27.61	6.62	34.64	32.95	32.54	74.00	41.46	Peak
3	2402.08	27.61	6.62	34.64	84.22	83.81	74.00	-9.81	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 Chamber Data no. : 413
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:26.6'; Humi:59.3%; Press:101.52kPa

Engineer : Seven

EUT : Car Multimedia Player

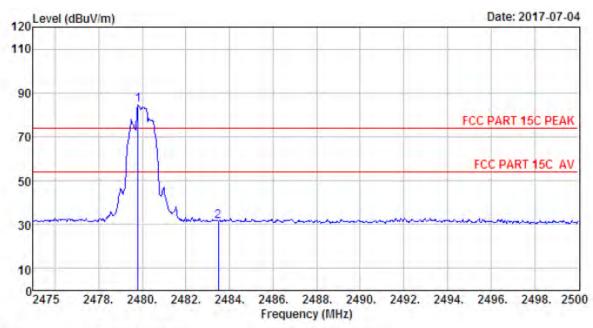
Power : DC 12V M/N : JRV9000

Test Mode : 8-DPSK TX 2402MHz (No Hopping)

2.000	Freq.	Ant. Factor (dB/m)	Loss	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.64	6.62	34.62	33.20	32.84	74.00	41,16	Peak
2	2400.00	27.61	6.62	34.64	33.12	32.71	74.00	41.29	Feak
3	2402.08	27.61	6.62	34.64	84.35	83.94	74.00	-9.94	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 Chamber Data no. : 414
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:26.6'; Humi:59.3%; Press:101.52kPa

Engineer : Seven

EUT : Car Multimedia Flayer

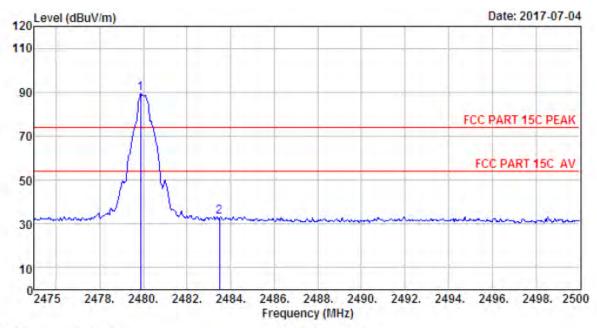
Power : DC 12V M/N : JRV9000

Test Mode : 8-DPSK TX 2480MHz (No Hopping)

	Freq.	Ant. Factor (dB/m)			Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.80	27.58	6.71	35.11	85.45	84.63	74.00	-10.63	Peak
2	2483.50	27.58	6.71	35.11	32.37	31.55	74.00	42,45	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Data no. : 415

Site no. : site Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

: FCC PART 15C PEAK Limit

Env. / Ins. : Temp:26.6'; Humi:59.3%; Press:101.52kPa

: Seven Engineer

: Car Multimedia Player EUT

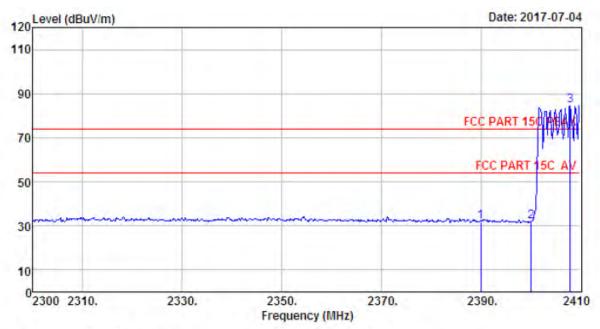
Power : DC 12V : JRV9000

Test Mode : 8-DPSK TX 2480MHz (No Hopping)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.88	27.58	6.71	35.11	90.33	89.51	74.00	-15.51	Peak
2	2483.50	27.58	6.71	35.11	33.86	33.04	74.00	40.96	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 Chamber Data no. : 388

Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:26.6'; Humi:59.3%; Press:101.52kPa

Engineer : Seven

EUT : Car Multimedia Player

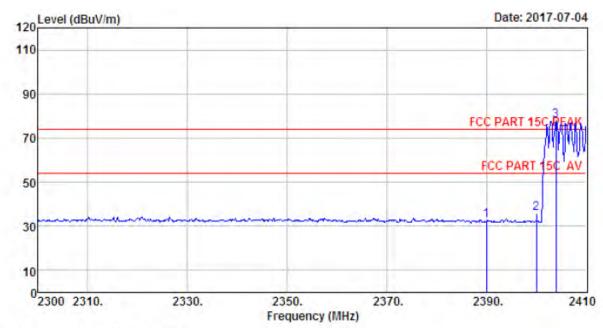
Power : DC 12V M/N : JRV9000

Test Mode : GFSK IX 2402MHz (Hopping On)

	Freq.	Ant. Factor (dB/m)		Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.64	6.62	34.62	32.08	31.72	74.00	42,28	Peak
2	2400.10	27.61	6.62	34.64	32.45	32.04	74.00	41.96	Peak
3	2408.02	27.61	6.64	34.64	84.86	84.47	74.00	-10.47	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 Chamber Data no. : 389
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:26.6'; Humi:59.3%; Press:101.52kPa

Engineer : Seven

EUT : Car Multimedia Player

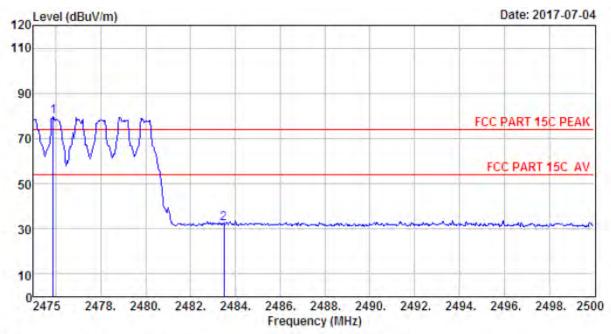
Power : DC 12V M/N : JRV9000

Test Mode : GFSK TX 2402MHz (Hopping On)

	Freq.	Ant. Factor (dB/m)		-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.64	6.62	34.62	33,26	32.90	74.00	41.10	Peak
2	2400.00	27.61	6.62	34.64	36.24	35.83	74.00	38.17	Peak
3	2403.95	27.61	6.64	34.64	78.11	77.72	74.00	-3.72	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 Chamber Data no. : 390
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:26.6'; Humi:59.3%; Press:101.52kFa

Engineer : Seven

EUT : Car Multimedia Player

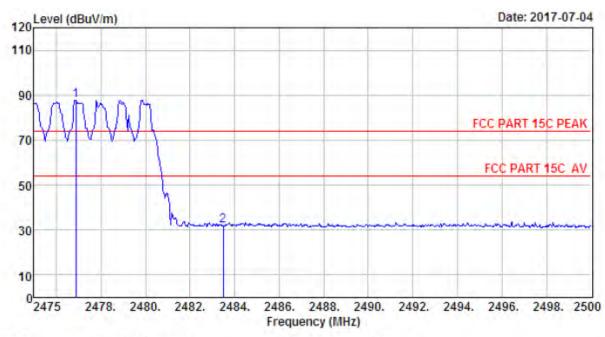
Power : DC 12V M/N : JRV9000

Test Mode : GFSK TX 2480MHz (Hopping On)

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)		Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2475.88	27.58	6.71	35.11	80.59	79.77	74.00	-5.77	Peak
2	2483.50	27.58	6.71	35.11	33.14	32.32	74.00	41.68	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 Chamber Data no. : 391

: 3m ANT 1-18G Dis. / Ant. Ant. pol. : HORIZONTAL

: FCC PART 15C PEAK Limit

Env. / Ins. : Temp:26.6'; Humi:59.3%; Press:101.52kPa

Engineer

: Seven : Car Multimedia Player EUT

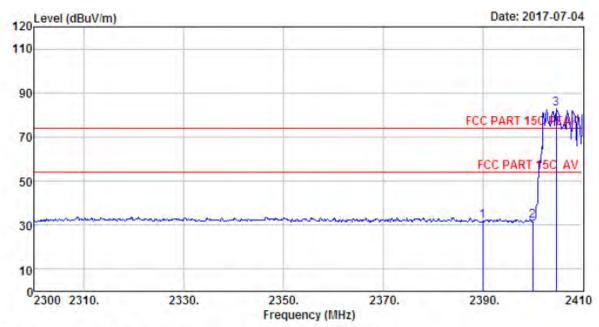
Power : DC 12V : JRV9000 M/N

Test Mode : GFSK TX 2480MHz (Hopping On)

	Freq.	Factor	Cable Loss (dB)	Factor	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2476.88	27.58	6.71	35.11	88.70	87.88	74,00	-13.88	Peak
2	2483.50	27.58	6.71	35.11	32.55	31.73	74.00	42.27	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no.

: 1# 966 Chamber Dis. / Ant. : 3m ANT 1-18G Data no. : 392

Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:26.6'; Humi:59.3%; Press:101.52kPa

Engineer : Seven

EUT : Car Multimedia Player

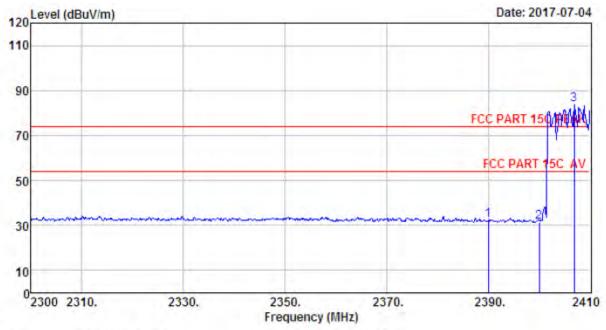
Power : DC 12V M/N : JRV9000

Test Mode : 8-DPSK TX 2402MHz (Hopping On)

ab) (abay)	(dbuv/m)	(dBuV/m)	(dB)	
.62 32.03	31.67	74.00	42.33	Peak
.64 32.24	31.83	74.00	42.17	Peak
.64 83.09	82.70	74.00	-8.70	Peak
	.62 32.03 .64 32.24	.62 32.03 31.67 .64 32.24 31.83	.64 32.24 31.83 74.00	.62 32.03 31.67 74.00 42.33 .64 32.24 31.83 74.00 42.17

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 Chamber Data no. : 393
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:26.6'; Humi:59.3%; Press:101.52kPa

Engineer : Seven

EUT : Car Multimedia Player

Power : DC 12V M/N : JRV9000

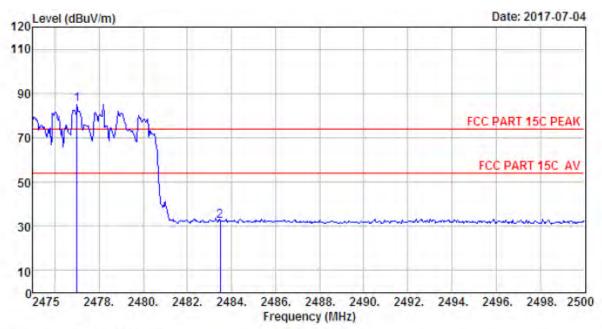
Test Mode : 8-DPSK TX 2402MHz (Hopping On)

	Freq.	Ant. Factor (dB/m)			Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.64	6.62	34.62	32.53	32.17	74.00	41.83	Peak
2	2400.00	27.61	6.62	34.64	32.01	31.60	74.00	42.40	Peak
3	2406.92	27.61	6.64	34.64	84.06	83.67	74.00	-9.67	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading,

The emission levels that are 20dB below the official limit are not reported.





Site no.

: 1# 966 Chamber

Data no. : 394

Dis. / Ant. : 3m ANT 1-18G

Ant. pol. : HORIZONIAL

Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:26.6'; Humi:59.3%; Press:101.52kPa

Engineer : Seven

EUT : Car Multimedia Player

Power : DC 12V M/N : JRV9000

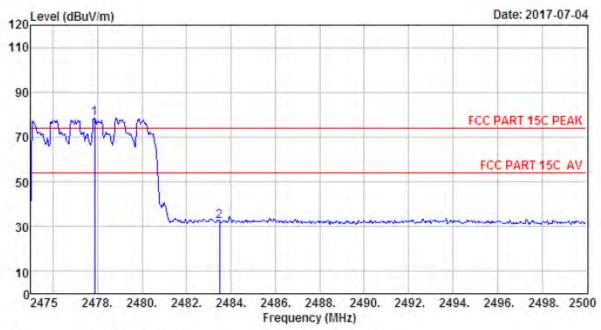
Test Mode : 8-DPSK TX 2480MHz (Hopping On)

	Freq.	Ant. Factor (dB/m)	Loss		Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2477.00	27.58	6.71	35.11	85.89	85.07	74.00	-11.07	Peak
2	2483.50	27.58	6.71	35.11	33.37	32.55	74.00	41.45	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.

The emission levels that are 20dB below the official limit are not reported.





Site no. : 1# 966 Chamber Data no. : 395
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:26.6'; Humi:59.3%; Press:101.52kPa

Engineer : Seven

EUI : Car Multimedia Player

Power : DC 12V M/N : JRV9000

Test Mode : 8-DPSK TX 2480MHz (Hopping On)

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)		Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2477.88	27.58	6.71	35.11	79.26	78.44	74.00	-4.44	Peak
2	2483.50	27.58	6.71	35.11	33.32	32.50	74.00	41.50	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.

The emission levels that are 20dB below the official limit are not reported.



#### 10. ANTENNA REQUIREMENTS

#### 10.1.Limit

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

#### 10.2.Result

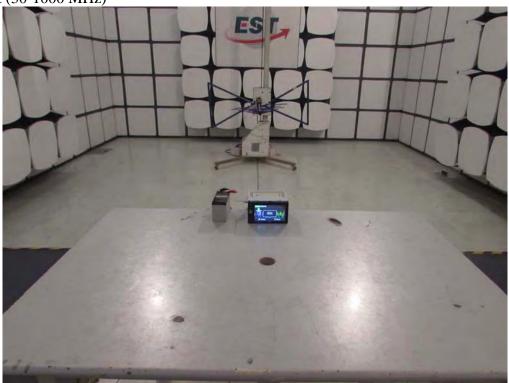
The antennas used for this product are Integrated PCB antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 0 dBi.



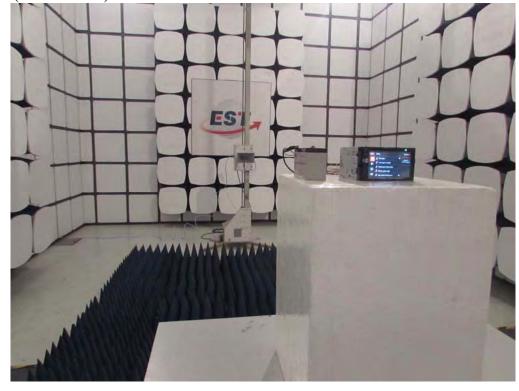
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## 11.TEST SETUP PHOTO

Radiated Test (30-1000 MHz)



Radiated Test (Above 1GHz)





# 12.PHOTO EUT

**External Photos** Model: JRV9000

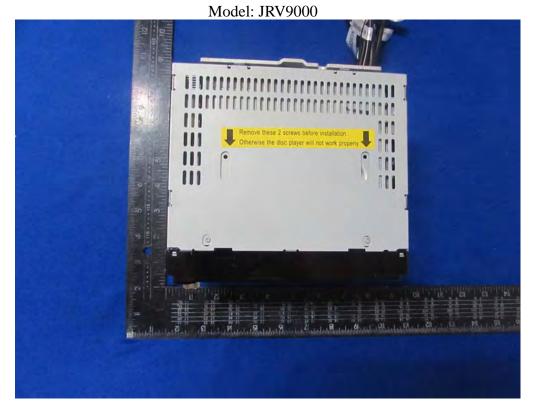






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#### **External Photos**

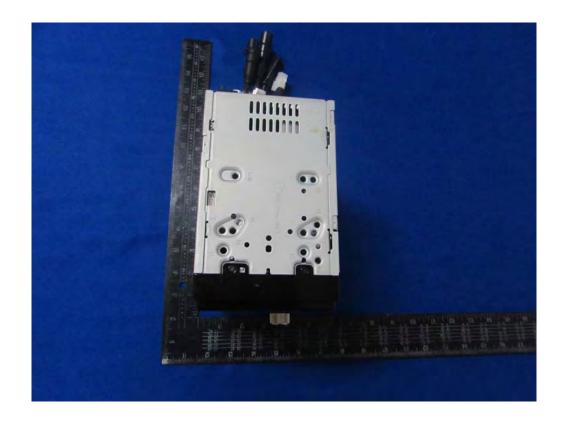






**External Photos** 











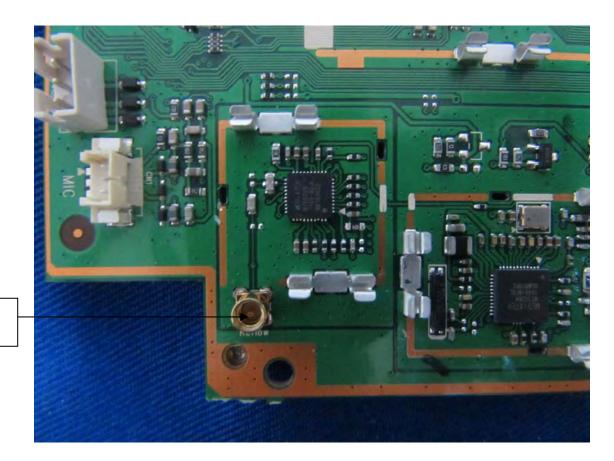












Bluetooth Antenna



















