

Produkte
Products

Prüfbericht - Nr.: 19660144 002		Seite 1 von 18	
<i>Test Report No.:</i>		<i>Page 1 of 18</i>	
Auftraggeber: <i>Client:</i>		Redpine Signals Inc 2107 N.First Street, Suite 680, San Jose, CA 95131-2019 United States	
Gegenstand der Prüfung: <i>Test item:</i>		802.11 abgn WiFi/BT/Zigbee MODULE	
Bezeichnung: <i>Identification:</i>	RS9113DB	Serien-Nr.: <i>Serial No.</i>	Engineering Sample
Wareneingangs-Nr.: <i>Receipt No.:</i>	1803095560	Eingangsdatum: <i>Date of receipt:</i>	31.08.2015
Prüfort: <i>Testing location:</i>		Refer Page 4 of 18 for test facilities	
Prüfgrundlage: <i>Test specification:</i>		FCC Part 15: Subpart C Section 15.247 ANSI C63.10 – 2013	
Prüfergebnis: <i>Test Result:</i>		Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n). <i>The test items passed the test specification(s).</i>	
Prüflaboratorium: <i>Testing Laboratory:</i>		TÜV Rheinland (India) Pvt. Ltd. 82/A, 3rd Main, West Wing, Electronic City Phase 1 Hosur Road, Bangalore – 560 100. India FCC Registration No.: 176555	
geprüft / tested by:		kontrolliert / reviewed by:	
04.04.2016	Saibaba Siddapur Sr. Engineer	06.04.2016	Raghavendra Kulkarni Sr. Manager
Datum <i>Date</i>	Name/Stellung <i>Name/Position</i>	Unterschrift <i>Signature</i>	Unterschrift <i>Signature</i>
			
Sonstiges / Other Aspects: FCC ID: XF6-RS9113DB, Class II Permissive Change			
Abkürzungen:		Abbreviations:	
P(ass)	= entspricht Prüfgrundlage	P(ass)	= passed
F(ail)	= entspricht nicht Prüfgrundlage	F(ail)	= failed
N/A	= nicht anwendbar	N/A	= not applicable
N/T	= nicht getestet	N/T	= not tested
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.</i>			

TÜV Rheinland India Pvt. Ltd. 82/A, 3rd Main, West Wing Electronic City Phase 1, Hosur Road, Bangalore-560100, India
 Tel.: +9180 6723 3500 · Fax: +9180 6723 3542 · Web: www.tuv.com

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Test Result Summary

Clause	Test Item	Result
Section 15.209 & 15.205	Spurious Radiated Emissions and Restricted bands of operation	Pass

Note: Conducted measurements are done according to the procedure given in KDB No. **DA 00-705**
March 2000

The Module is originally certified for FCC with FCC ID: **XF6-RS9113DB**, with respect to the changes made to originally certified module Class 2 permissive change has been applied.
Changes made to the originally certified module are listed in the below table.

Application Purpose	Antenna	Wi-Fi	ZigBee	BT LE	BT (BR+EDR)
Class II Permissive Change	Redpine Antenna	Refer FCC_DTS & UNII Test Report (19660145 002 & 19660146 002)			None
	Molex Antenna				Additional Antenna
	Fractus Antenna				Additional Antenna

Also, to address the test results for the above changes, the original test report 19660144 001 is been updated to 19660144 002

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List of Test and Measurement Instruments

Equipment	Manufacturer	Model Name	Serial Number	Calibration Due Date	Periodicity	Used for Test Items
EMI Test Receiver	Rohde & Schwarz	ESU 40	100288	23.11.2016	Yearly	Spurious Radiated Emissions
Broadband Antenna	Frankonia	ALX-4000	ALX-4000-806	10.06.2016	Yearly	
Active Loop Antenna	Frankonia	LAX-10	LAX-10-800	22.12.2016	Yearly	
Broadband Horn Antenna	Frankonia	HAX-18	HAX18-802	14.03.2017	Yearly	
Emission Horn Antenna	ETS Lindgren	116706	00107323	02.11.2016	Yearly	
Anechoic Chamber	Frankonia	-	-	-	-	

Testing Facilities:

- 1) TUV Rheinland (India) Private Limited
No. 108, West Wing
Electronic city Phase I
Bangalore – 560100

General Product Information

Product Function and Intended Use

The RS9113 module integrates a multi-threaded MAC processor with integrated analog peripherals and support for digital peripherals, baseband digital signal processor, analog front-end, crystal oscillator, calibration OTP memory, Dual band RF transceiver, Dual-band high-power amplifiers, baluns, diplexers, diversity switch and Quad-SPI Flash thus providing a fully-integrated solution for embedded wireless applications. The RS9113 based chips and modules leverage and improve upon Redpine's proven low power innovations from Lite-FTM products (RS9110) and provide WLAN 802.11n, BT4.0 and ZigBee convergence solution for integration into mobile and M2M communication devices. It can connect to a host processor through SDIO, USB, SPI or UART interfaces.

Ratings and System Details

Operating Frequency	2400 – 2483.5MHz	
No. of channel	79	
Channel Spacing	1MHz	
Modulation	1Mbps	GFSK
	2Mbps	$\pi/4$ -DQPSK
	3Mbps	8DPSK
Antenna Type	Refer Table 1	
Number of antenna	Refer Table 1	
Antenna Gain	Refer Table 1	
Supply Voltage to Module	3.0V – 3.6V DC from Host device	
Environmental	Operational Temperature: -40°C to 85°C	

Test Conditions:

Supply Voltage: 5V DC from USB

Environmental conditions:

Temperature: +24 °C RH: 62%

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Table 1: List of Antenna Used

Make	Model/Part #	Antenna Gain at 2.4GHz (dBi)	Type of Antenna
Redpine	-	0.99	Trace
Molex	PS-47950-001	3	External
Fractus	FR05-S1-NO-1-004	1.8	Chip

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Test Set-up and Operation Mode

Principle of Configuration Selection

Transmission was enabled with 100% duty cycle on low, mid and high channel.

Test Operation and Test Software

Test software was used to enable the transmission with 100% duty cycle, changing channels (low/mid/high) and data rates on the EUT for the tests in this report.

Special Accessories and Auxiliary Equipment

- None

Countermeasures to achieve EMC Compliance

- None

Test Modes – Data Rates and Modulations

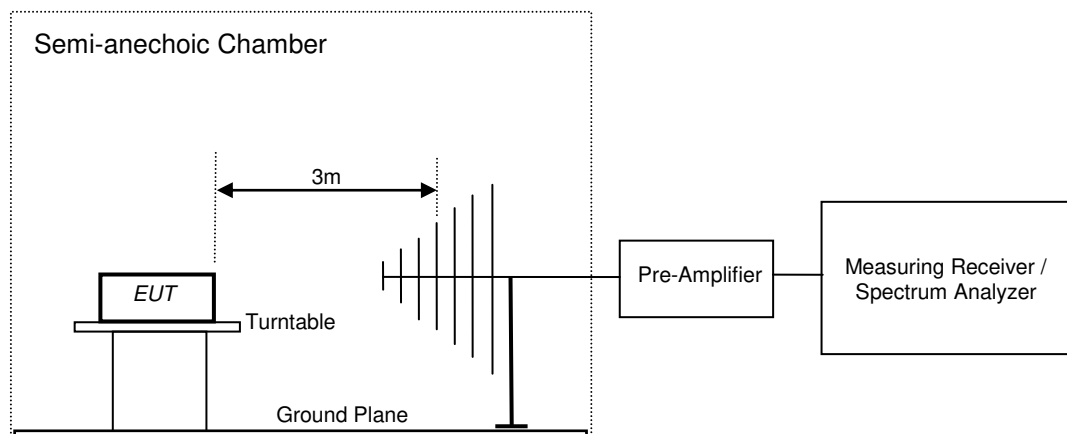
For Radiated spurious emissions, the tests were performed for all data rates and only worst case results are reported in this report.

Test Methodology

Radiated Emission Test

The radiated emission measurement was performed according to the procedures in ANSI C63.10-2013. The equipment under test (EUT) was placed at the middle of the 80 cm high turntable, and the EUT is 3 meters far from the measuring antenna for below 1GHz & The equipment under test (EUT) was placed at the middle of the 1.5m high turntable, and the EUT is 3 meters far from the measuring antenna for above 1GHz. The turntable was rotated 360° for obtaining the maximum emission. The height of the measuring antennas was scanned between 1m and 4m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations. Repeat the measurement steps until the maximum emissions were obtained. The measurement above 1000MHz was performed by horn antenna. The measurement below 30MHz was performed by loop antenna.

The EUT was rotated around the X-, Y-, and Z-Axis and the results from worst case axis are recorded.



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Test Results

Spurious Radiated Emissions & Restricted Bands of Operation Result

Section 15.209 & 15.205
Pass

Test Specification	FCC Part 15C
Test Method	ANSI C63.10-2013
Measurement Location	Semi Anechoic Chamber
Measuring Frequency Range	9kHz to 40GHz (Up to 10 th harmonic of the highest fundamental frequency)
Measuring Distance	3m
Detection	QP for frequency below 1GHz, Peak, Average for frequency above 1GHz
Requirement	As per the limits mentioned in the bellow table

Limit for Radiated Emission of Section 15.209:

Frequency (MHz)	Field strength (μV/m)	Field strength (dBμV/m)	Distance of Measurement (m)
0.009 – 0.490	2400/F(kHz)	48.50 – 13.80	300*
0.490 – 1.705	24000/F(kHz)	33.80 – 23.00	30*
1.705 -30	30	29.54	30*
30-88	100	40.0	3
88-216	150	43.5	3
216-960	200	46.0	3
Above 960	500	54.0	3

Remark: * the limit shows in the table above of frequency range 0.009 – 0.490, 0.490 – 1.705 MHz and 1.705-30MHz is at 300 meter, 30 meter and 30 meter range respectively, which corresponds to 88, 50 – 53.80, 53.80 – 43.00 and 49.5dBμV/m at 3m range by extrapolation calculation and the measurement of loop antenna.

The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.

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Test results:

No emissions were found in the range 9 kHz to 1GHz.

Test results for frequencies in the range 1 GHz 26.5 GHz

Molex Antenna : Data rate - 1Mbps					
Channel Frequency (MHz)	Polarization	Frequency (MHz)	Field Strength Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2402	Vertical	2390 (Pk)	52.21	74.00	-21.79
		2390 (Av)	37.47	54.00	-16.53
		2402 (Pk)	102.30	*	-
		2402 (Av)	101.77	*	-
		4804 (Pk)	50.51	74.00	-23.49
		4804 (Av)	41.53	54.00	-12.47
		7206 (Pk)	58.40	74.00	-15.60
		7206 (Av)	45.16	54.00	-8.84
	Horizontal	2390 (Pk)	51.14	74.00	-22.86
		2390 (Av)	47.65	54.00	-6.35
		2402 (Pk)	111.87	*	-
		2402 (Av)	111.33	*	-
		4804 (Pk)	55.72	74.00	-18.28
		4804 (Av)	50.21	54.00	-3.79
		7206 (Pk)	58.47	74.00	-15.53
		7206 (Av)	45.57	54.00	-8.43
2440	Vertical	2440 (Pk)	102.12	*	-
		2440 (Av)	101.24	*	-
		4880 (Pk)	51.34	74.00	-22.66
		4880 (Av)	46.21	54.00	-7.79
		7320 (Pk)	58.79	74.00	-15.21
		7320 (Av)	46.28	54.00	-7.72
	Horizontal	2440 (Pk)	111.56	*	-
		2440 (Av)	110.88	*	-
		4880 (Pk)	57.21	74.00	-16.79
		4880 (Av)	50.78	54.00	-3.22
		7320 (Pk)	60.32	74.00	-13.68
		7320 (Av)	46.54	54.00	-7.46
2480	Vertical	2480 (Pk)	102.30	*	-
		2480 (Av)	101.77	*	-
		2483.5 (Pk)	53.21	74.00	-20.79

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		2483.5 (Av)	35.07	54.00	-18.93
		4960 (Pk)	51.09	74.00	-22.91
		4960 (Av)	40.74	54.00	-13.26
		7440 (Pk)	59.13	74.00	-14.87
		7440 (Av)	46.73	54.00	-7.27
	Horizontal	2480 (Pk)	111.87	*	-
		2480 (Av)	111.33	*	-
		2483.5 (Pk)	50.60	74.00	-23.40
		2483.5 (Av)	43.34	54.00	-10.66
		4960 (Pk)	56.38	74.00	-17.62
		4960 (Av)	50.39	54.00	-3.61
		7440 (Pk)	59.93	74.00	-14.07
		7440 (Av)	47.52	54.00	-6.48

** -> Fundamental Frequency

Pk - > Peak Detector

Av->Average Detector

Molex Antenna : Data rate - 2Mbps					
Channel Frequency (MHz)	Polarization	Frequency (MHz)	Field Strength Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2402	Vertical	2390 (Pk)	55.85	74.00	-18.15
		2390 (Av)	40.47	54.00	-13.53
		2402 (Pk)	107.63	*	-
		2402 (Av)	104.18	*	-
		4804 (Pk)	51.27	74.00	-22.73
		4804 (Av)	40.51	54.00	-13.49
		7206 (Pk)	58.77	74.00	-15.23
		7206 (Av)	45.55	54.00	-8.45
	Horizontal	2390 (Pk)	51.71	74.00	-22.29
		2390 (Av)	46.17	54.00	-7.83
		2402 (Pk)	113.74	*	-
		2402 (Av)	110.41	*	-
		4804 (Pk)	56.72	74.00	-17.28
		4804 (Av)	49.88	54.00	-4.12
		7206 (Pk)	62.36	74.00	-11.64
		7206 (Av)	46.47	54.00	-7.53
2440	Vertical	2440 (Pk)	107.23	*	-
		2440 (Av)	103.89	*	-
		4880 (Pk)	52.67	74.00	-21.33

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		4880 (Av)	42.51	54.00	-11.49
		7320 (Pk)	59.64	74.00	-14.36
		7320 (Av)	46.12	54.00	-7.88
	Horizontal	2440 (Pk)	113.34	*	-
		2440 (Av)	110.78	*	-
		4880 (Pk)	57.45	74.00	-16.55
		4880 (Av)	50.12	54.00	-3.88
		7320 (Pk)	63.12	74.00	-10.88
		7320 (Av)	45.68	54.00	-8.32
2480	Vertical	2480 (Pk)	98.91	*	-
		2480 (Av)	95.54	*	-
		2483.5 (Pk)	62.78	74.00	-11.22
		2483.5 (Av)	30.00	54.00	-24.00
	Horizontal	2480 (Pk)	104.41	*	-
		2480 (Av)	100.83	*	-
		2483.5 (Pk)	73.03	74.00	-0.97
		2483.5 (Av)	34.29	54.00	-19.71
		4960 (Pk)	51.08	74.00	-22.92
		4960 (Av)	38.73	54.00	-15.27

** -> Fundamental Frequency

Pk -> Peak Detector

Av->Average Detector

Molex Antenna : Data rate - 3Mbps					
Channel Frequency (MHz)	Polarization	Frequency (MHz)	Field Strength Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2402	Vertical	2390 (Pk)	55.42	74.00	-18.58
		2390 (Av)	41.73	54.00	-12.27
		2402 (Pk)	107.78	*	-
		2402 (Av)	104.16	*	-
		4804 (Pk)	51.62	74.00	-22.38
		4804 (Av)	40.53	54.00	-13.47
		7206 (Pk)	57.80	74.00	-16.20
		7206 (Av)	45.50	54.00	-8.50
	Horizontal	2390 (Pk)	52.13	74.00	-21.87
		2390 (Av)	45.92	54.00	-8.08
		2402 (Pk)	113.99	*	-
		2402 (Av)	110.51	*	-
		4804 (Pk)	57.01	74.00	-16.99

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		4804 (Av)	49.82	54.00	-4.18
		7206 (Pk)	59.51	74.00	-14.49
		7206 (Av)	46.36	54.00	-7.64
2440	Vertical	2440 (Pk)	107.24	*	-
		2440 (Av)	103.68	*	-
		4880 (Pk)	52.64	74.00	-21.36
		4880 (Av)	41.02	54.00	-12.98
		7320 (Pk)	58.78	74.00	-15.22
		7320 (Av)	46.23	54.00	-7.77
	Horizontal	2440 (Pk)	113.28	*	-
		2440 (Av)	110.08	*	-
		4880 (Pk)	57.88	74.00	-16.12
		4880 (Av)	50.43	54.00	-3.57
		7320 (Pk)	60.21	74.00	-13.79
		7320 (Av)	47.16	54.00	-6.84
2480	Vertical V	2480 (Pk)	98.06	*	-
		2480 (Av)	95.45	*	-
		2483.5 (Pk)	64.32	74.00	-9.68
		2483.5 (Av)	34.21	54.00	-19.79
	Horizontal	2480 (Pk)	103.68	*	-
		2480 (Av)	99.83	*	-
		2483.5 (Pk)	72.98	74.00	-1.02
		2483.5 (Av)	33.30	54.00	-20.70
		4960 (Pk)	50.67	74.00	-23.33
		4960 (Av)	37.98	54.00	-16.02

** -> Fundamental Frequency

Pk - > Peak Detector

Av->Average Detector

Fractus Antenna : Data rate - 1Mbps					
Channel Frequency (MHz)	Polarization	Frequency (MHz)	Field Strength Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2402	Vertical	2390 (Pk)	52.61	74.00	-21.39
		2390 (Av)	43.53	54.00	-10.47
		2402 (Pk)	106.22	*	-
		2402 (Av)	105.69	*	-
		4804 (Pk)	54.94	74.00	-19.06
		4804 (Av)	46.27	54.00	-7.73
		7206 (Pk)	59.54	74.00	-14.46
		7206 (Av)	46.82	54.00	-7.18
	Horizontal	2390 (Pk)	52.19	74.00	-21.81
		2390 (Av)	48.00	54.00	-6.00
		2402 (Pk)	110.87	*	-
		2402 (Av)	110.31	*	-
		4804 (Pk)	54.83	74.00	-19.17
		4804 (Av)	46.18	54.00	-7.82
		7206 (Pk)	58.89	74.00	-15.11
		7206 (Av)	46.56	54.00	-7.44
2440	Vertical	2440 (Pk)	106.76	*	-
		2440 (Av)	105.37	*	-
		4880 (Pk)	55.21	74.00	-18.79
		4880 (Av)	46.12	54.00	-7.88
		7320 (Pk)	60.32	74.00	-13.68
		7320 (Av)	46.32	54.00	-7.68
	Horizontal	2440 (Pk)	110.89	*	-
		2440 (Av)	110.08	*	-
		4880 (Pk)	55.33	74.00	-18.67
		4880 (Av)	47.12	54.00	-6.88
2480	Vertical	2480 (Pk)	107.22	*	-
		2480 (Av)	106.66	*	-
		2483.5 (Pk)	49.32	74.00	-24.68
		2483.5 (Av)	38.86	54.00	-15.14
		4960 (Pk)	55.66	74.00	-18.34
		4960 (Av)	46.32	54.00	-7.68
		7440 (Pk)	60.43	74.00	-13.57
		7440 (Av)	45.98	54.00	-8.02
	Horizontal	2480 (Pk)	111.08	*	-

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	2480 (Av)	110.53	*	-
	2483.5 (Pk)	52.66	74.00	-21.34
	2483.5 (Av)	42.13	54.00	-11.87
	4960 (Pk)	55.61	74.00	-18.39
	4960 (Av)	47.21	54.00	-6.79
	7440 (Pk)	59.77	74.00	-14.23
	7440 (Av)	47.34	54.00	-6.66

** -> Fundamental Frequency

Pk -> Peak Detector

Av->Average Detector

Fractus Antenna : Data rate - 2Mbps					
Channel Frequency (MHz)	Polarization	Frequency (MHz)	Field Strength Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2402	Vertical	2390 (Pk)	52.89	74.00	-21.11
		2390 (Av)	43.56	54.00	-10.44
		2402 (Pk)	108.23	*	-
		2402 (Av)	104.83	*	-
		4804 (Pk)	52.31	74.00	-21.69
		4804 (Av)	41.23	54.00	-12.77
		7206 (Pk)	59.18	74.00	-14.82
		7206 (Av)	46.23	54.00	-7.77
	Horizontal	2390 (Pk)	53.13	74.00	-20.87
		2390 (Av)	46.99	54.00	-7.01
		2402 (Pk)	112.82	*	-
		2402 (Av)	109.25	*	-
		4804 (Pk)	56.72	74.00	-17.28
		4804 (Av)	49.88	54.00	-4.12
		7206 (Pk)	62.36	74.00	-11.64
		7206 (Av)	46.47	54.00	-7.53
2440	Vertical	2440 (Pk)	108.23	*	-
		2440 (Av)	104.29	*	-
		4880 (Pk)	53.21	74.00	-20.79
		4880 (Av)	42.58	54.00	-11.42
		7320 (Pk)	60.12	74.00	-13.88
		7320 (Av)	45.72	54.00	-8.28
	Horizontal	2440 (Pk)	112.98	*	-
		2440 (Av)	110.24	*	-
		4880 (Pk)	58.64	74.00	-15.36

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2480	Vertical	4880 (Av)	49.89	54.00	-4.11
		7320 (Pk)	64.11	74.00	-9.89
		7320 (Av)	46.24	54.00	-7.76
		2480 (Pk)	100.88	*	-
		2480 (Av)	97.58	*	-
		2483.5 (Pk)	70.12	74.00	-3.88
		2483.5 (Av)	31.07	54.00	-22.93
	Horizontal	2480 (Pk)	105.34	*	-
		2480 (Av)	101.97	*	-
		2483.5 (Pk)	71.69	74.00	-2.31
		2483.5 (Av)	35.00	54.00	-19.00
		4960 (Pk)	50.67	74.00	-23.33
		4960 (Av)	39.71	54.00	-14.29

** -> Fundamental Frequency

Pk -> Peak Detector

Av->Average Detector

Fractus Antenna : Data rate - 3Mbps					
Channel Frequency (MHz)	Polarization	Frequency (MHz)	Field Strength Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)
2402	Vertical	2390 (Pk)	50.45	74.00	-23.55
		2390 (Av)	43.94	54.00	-10.06
		2402 (Pk)	107.89	*	-
		2402 (Av)	104.33	*	-
		4804 (Pk)	53.44	74.00	-20.56
		4804 (Av)	44.01	54.00	-9.99
		7206 (Pk)	59.69	74.00	-14.31
		7206 (Av)	46.87	54.00	-7.13
	Horizontal	2390 (Pk)	54.20	74.00	-19.80
		2390 (Av)	49.11	54.00	-4.89
		2402 (Pk)	112.97	*	-
		2402 (Av)	109.21	*	-
		4804 (Pk)	54.43	74.00	-19.57
		4804 (Av)	46.29	54.00	-7.71
		7206 (Pk)	60.05	74.00	-13.95
		7206 (Av)	46.41	54.00	-7.59
2440	Vertical	2440 (Pk)	106.84	*	-
		2440 (Av)	103.12	*	-
		4880 (Pk)	53.21	74.00	-20.79

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		4880 (Av)	42.33	54.00	-11.67
		7320 (Pk)	59.32	74.00	-14.68
		7320 (Av)	47.21	54.00	-6.79
	Horizontal	2440 (Pk)	112.88	*	-
		2440 (Av)	109.78	*	-
		4880 (Pk)	58.46	74.00	-15.54
		4880 (Av)	49.98	54.00	-4.02
		7320 (Pk)	61.23	74.00	-12.77
		7320 (Av)	47.86	54.00	-6.14
2480	Vertical	2480 (Pk)	100.81	*	-
		2480 (Av)	97.26	*	-
		2483.5 (Pk)	69.53	74.00	-4.47
		2483.5 (Av)	31.75	54.00	-22.25
	Horizontal	2480 (Pk)	105.48	*	-
		2480 (Av)	101.76	*	-
		2483.5 (Pk)	73.17	74.00	-0.83
		2483.5 (Av)	34.87	54.00	-19.13
		4960 (Pk)	51.23	74.00	-22.77
		4960 (Av)	38.68	54.00	-15.32

** -> Fundamental Frequency

Pk - > Peak Detector

Av->Average Detector

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Power level Settings used during Fractus Antenna testing:

		Channels					
		Low		Mid		High	
Mode	Data Rate (Mbps)	Tx Power	Attenuation to antenna Gain	Tx power	Attenuation to antenna Gain	Tx power	Attenuation to antenna Gain
Bluetooth	1	15	0	15	0	15	0
	2	16	0	16	0	16	8
	3	16	0	16	0	16	8

Power level Settings used during Molex Antenna testing:

		Channels					
		Low		Mid		High	
Mode	Data Rate (Mbps)	Tx Power	Attenuation to antenna Gain	Tx power	Attenuation to antenna Gain	Tx power	Attenuation to antenna Gain
Bluetooth	1	15	0	15	0	15	0
	2	16	0	16	0	16	8
	3	16	0	16	0	16	7

*****END OF TEST REPORT*****