A Test Lab Techno Corp.

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MPE Report

Test Report No.	:	1605FS14
Applicant	:	Phorus, Inc.
Product Type	:	Play-Fi Module
Trade Name	:	DTS
Model Number	:	CAPRICA2L
Date of Received	:	Apr. 15, 2016
Test Period	:	May 11, 2016
Date of Issued	:	May 19, 2016
Test Specification	:	ANSI / IEEE Std.C95.1-1992 / IEEE Std. 1528-2013
		47 CFR § 2.1091
		47 CFR § 1.1310
Location of Test Lab.	:	Chang-an Lab.

1. The test operations have to be performed with cautious behavior, the test results are as attached.
2. The test results are under chamber environment of A Test Lab Techno Corp. A Test Lab Techno Corp. does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples.
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Approved By : Bill Hu (Bill Hu)

Tested By : Mark Duan (Mark Duan)

Contents

1. Description of Equipment under Test (EUT)

Applicant	Phorus, Inc. 16255 Ventura Boulevard, Encino,California, 91436 United States				
Manufacturer	LITE-ON Technology (Changzhou) Co., Ltd A9 Building, No. 88, Yanghu Road, Wujin Hi-Tech Industrial Development Zone, Changzhou City, Jiangsu Province, P.R. China				
Product Type	Play-Fi Module				
Trade Name	DTS				
Model Number	CAPRICA2L				
Permissive Change	Adding new type antenna.				
FCC ID	2AAWQ-CAPRICA2L				
Frequency Range	IEEE 802.11b / 802.11g / 802.11n 2.4GHz 20MHz :	2412 - 2462 MHz			
	IEEE 802.11n 2.4GHz 40MHz :	2422 - 2452 MHz			
	IEEE 802.11a U-NII Band I :	5180 - 5240 MHz			
	IEEE 802.11a U-NII Band II-A :	5260 - 5320 MHz			
	IEEE 802.11a U-NII Band II-C :	5500 - 5700 MHz			
	IEEE 802.11a U-NII Band III :	5745 - 5825 MHz			
	IEEE 802.11n 5GHz 20MHz U-NII Band I :	5180 - 5240 MHz			
	IEEE 802.11n 5GHz 20MHz U-NII Band II-A :	5260 - 5320 MHz			
	IEEE 802.11n 5GHz 20MHz U-NII Band II-C :	5500 - 5700 MHz			
	IEEE 802.11n 5GHz 20MHz U-NII Band III :	5745 - 5825 MHz			
	IEEE 802.11n 5GHz 40MHz U-NII Band I :	5190 - 5230 MHz			
	IEEE 802.11n 5GHz 40MHz U-NII Band II-A :	5270 - 5310 MHz			
	IEEE 802.11n 5GHz 40MHz U-NII Band II-C :	5510 - 5670 MHz			
	IEEE 802.11n 5GHz 40MHz U-NII Band III :	5755 - 5795 MHz			
Transmit Power (conducted power)	IEEE 802.11b:	0.038	W /	15.78	dBm
	IEEE 802.11g:	0.024	W /	13.79	dBm
	IEEE 802.11n 2.4GHz 20MHz :	0.018	W /	12.52	dBm
	IEEE 802.11n 2.4GHz 40MHz :	0.016	W /	11.92	dBm
	IEEE 802.11a U-NII Band I :	0.017	W /	12.43	dBm
	IEEE 802.11a U-NII Band II-A :	0.019	W /	12.85	dBm
	IEEE 802.11a U-NII Band II-C :	0.024	W /	13.75	dBm
	IEEE 802.11a U-NII Band III :	0.024	W /	13.87	dBm
	IEEE 802.11n 5GHz 20MHz U-NII Band I :	0.012	W /	10.68	dBm
	IEEE 802.11n 5GHz 20MHz U-NII Band II-A :	0.012	W /	10.79	dBm
	IEEE 802.11n 5GHz 20MHz U-NII Band II-C :	0.016	W /	12.00	dBm
	IEEE 802.11n 5GHz 20MHz U-NII Band III :	0.014	W /	11.40	dBm
	IEEE 802.11n 5GHz 40MHz U-NII Band I :	0.011	W /	10.47	dBm
	IEEE 802.11n 5GHz 40MHz U-NII Band II-A :	0.011	W /	10.52	dBm
	IEEE 802.11n 5GHz 40MHz U-NII Band II-C :	0.016	W /	12.00	dBm
	IEEE 802.11n 5GHz 40MHz U-NII Band III :	0.014	W /	11.45	dBm

	Manufacturer	Model Number	Type	Max Peak Gain	
				2.4GHz	5GHz
Antenna used	HWA SUNG ELECOM CO., LTD.	CSA3A022Z	PIFA Antenna	0.76 dBi	U-NII Band I: 3.40 dBi U-NII Band II-A: 3.40 dBi U-NII Band II-C: 1.36 dBi U-NII Band III: 2.62 dBi
Temperature Range	0 ~ +70°C				
RF Evaluation	0.011 mW/cm^2				

The above equipment was tested by A Test Lab Techno Corp. For compliance with the requirements set forth in 47 CFR § 2.1091 / 47 CFR § 1.1310. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties

2. Human Exposure Assessment

Due to the design and installation of this product, it is not possible to conduct SAR evaluation. This is because client either manufactures or supplies the antenna(s) that will be used in the installation of this product. Therefore, this product will be evaluated as a mobile device per 47 CFR § 1.1310 titled “Radiofrequency radiation exposure limits”, generally referred to as MPE limits.

In 47 CFR § 2.1091, paragraph (b) defines a mobile device as “a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 cm is normally maintained between the transmitter’s radiating structure(s) and the body of the user or nearby persons. ” This product is intended to be installed into a vehicle such that the unit is physically secured at one location. In the installation guide supplied with the product,

Client has made the following statement: “IMPORTANT: To meet the FCC’s RF Exposure Guidelines, the antenna should be installed so there is at least 20 cm of separation between the body of the user and nearby persons and the antenna”. Based on the installation of the transceiver and the antenna, the transmitters radiating structure is more than 20 cm from the user. Thus, this product is a “mobile device” as defined in section § 2.1091 paragraph (b).

Exposure evaluation
$$S = \frac{PG}{4\pi R^2}$$ Where S: power density P: power input to the antenna G: power gain of the antenna in the direction of interest relative to an isotropic radiator. R: distance to the center of radiation of the antenna.

3. RF Output Power

Band	Date Rate	CH	Frequency (MHz)	Average Conducted power (dBm)	
				ANT-0	ANT-1
IEEE 802.11b	1M	1	2412.0	14.35	15.22
		6	2437.0	14.56	15.78
		11	2462.0	14.43	15.02
	2M	6	2437.0	14.45	15.71
	5.5M	6	2437.0	14.29	15.67
	11M	6	2437.0	14.24	15.61
IEEE 802.11g	6M	1	2412.0	13.50	13.73
		6	2437.0	13.71	13.79
		11	2462.0	13.46	13.53
	9M	6	2437.0	13.70	13.78
	12M	6	2437.0	13.66	13.75
	18M	6	2437.0	13.64	13.73
	24M	6	2437.0	13.57	13.70
	36M	6	2437.0	13.55	13.64
	48M	6	2437.0	13.49	13.60
	54M	6	2437.0	13.45	13.58
IEEE 802.11n 2.4GHz 20MHz	6.5M	1	2412.0	12.08	12.45
		6	2437.0	12.25	12.52
		11	2462.0	12.06	12.35
	13M	6	2437.0	12.23	12.50
	19.5M	6	2437.0	12.19	12.47
	26M	6	2437.0	12.15	12.46
	39M	6	2437.0	12.11	12.43
	52M	6	2437.0	12.07	12.40
	58.5M	6	2437.0	12.06	12.38
	65M	6	2437.0	12.03	12.31
IEEE 802.11n 2.4GHz 40MHz	13.5M	3	2422.0	11.38	11.73
		6	2437.0	11.45	11.92
		9	2452.0	11.20	11.61
	27M	6	2437.0	11.42	11.90
	40.5M	6	2437.0	11.40	11.89
	54M	6	2437.0	11.34	11.87
	81M	6	2437.0	11.30	11.85
	108M	6	2437.0	11.27	11.81
	121.5M	6	2437.0	11.24	11.78
	135M	6	2437.0	11.19	11.72

Band	Date Rate	CH	Frequency (MHz)	Average Conducted power (dBm)	
				ANT-0	ANT-1
IEEE 802.11a	6M	36	5180.0	12.24	12.43
		40	5200.0	12.32	12.36
		44	5220.0	12.24	12.36
		48	5240.0	12.08	12.28
		52	5260.0	12.34	12.62
		56	5280.0	12.40	12.44
		60	5300.0	12.54	12.85
		64	5320.0	12.31	12.71
		100	5500.0	12.87	13.55
		104	5520.0	13.10	13.75
		108	5540.0	12.94	13.61
		112	5560.0	12.97	13.42
		116	5580.0	13.10	13.55
		120	5600.0	13.18	13.59
		124	5620.0	13.23	13.38
		128	5640.0	13.22	13.27
		132	5660.0	13.03	13.07
		136	5680.0	12.72	13.00
		140	5700.0	12.82	12.93
		149	5745.0	13.69	13.87
		153	5765.0	12.72	13.38
		157	5785.0	12.72	12.79
		161	5805.0	12.17	12.51
		165	5825.0	12.05	12.10
	54M	36	5180.0	12.21	12.39
		40	5200.0	12.28	12.31
		44	5220.0	12.22	12.35
		48	5240.0	12.04	12.21
		52	5260.0	12.31	12.60
		56	5280.0	12.35	12.42
		60	5300.0	12.48	12.79
		64	5320.0	12.28	12.67
		100	5500.0	12.83	13.51
		104	5520.0	13.04	13.71
		108	5540.0	12.87	13.57
		112	5560.0	12.93	13.36
		116	5580.0	13.02	13.53
		120	5600.0	13.08	13.54
		124	5620.0	13.16	13.34
		128	5640.0	13.18	13.22
		132	5660.0	12.99	13.01
		136	5680.0	12.63	12.93
		140	5700.0	12.76	12.85
		149	5745.0	13.61	13.85
		153	5765.0	12.71	13.33
		157	5785.0	12.66	12.77
		161	5805.0	12.16	12.43
		165	5825.0	12.03	12.06

Band	Date Rate	CH	Frequency (MHz)	Average Conducted power (dBm)	
				ANT-0	ANT-1
IEEE 802.11n 5GHz 20MHz	6.5M	36	5180.0	10.50	10.67
		40	5200.0	10.48	10.68
		44	5220.0	10.49	10.59
		48	5240.0	10.48	10.52
		52	5260.0	10.46	10.79
		56	5280.0	10.47	10.59
		60	5300.0	10.46	10.72
		64	5320.0	10.51	10.60
		100	5500.0	11.52	11.98
		104	5520.0	11.70	11.92
		108	5540.0	11.52	11.94
		112	5560.0	11.95	11.98
		116	5580.0	11.85	12.00
		120	5600.0	11.45	11.58
		124	5620.0	11.27	11.37
		128	5640.0	10.94	11.12
		132	5660.0	10.68	11.11
		136	5680.0	10.53	10.71
		140	5700.0	10.50	10.58
		149	5745.0	11.19	11.40
		153	5765.0	11.04	11.21
		157	5785.0	10.47	10.55
		161	5805.0	10.45	10.59
		165	5825.0	10.49	10.58
	65M	36	5180.0	10.44	10.61
		40	5200.0	10.45	10.61
		44	5220.0	10.45	10.57
		48	5240.0	10.40	10.42
		52	5260.0	10.37	10.63
		56	5280.0	10.44	10.50
		60	5300.0	10.41	10.72
		64	5320.0	10.48	10.53
		100	5500.0	11.43	11.94
		104	5520.0	11.55	11.88
		108	5540.0	11.48	11.91
		112	5560.0	11.51	11.96
		116	5580.0	11.80	11.97
		120	5600.0	11.43	11.55
		124	5620.0	11.24	11.30
		128	5640.0	10.91	11.08
		132	5660.0	10.59	11.02
		136	5680.0	10.44	10.65
		140	5700.0	10.42	10.48
		149	5745.0	11.10	11.35
		153	5765.0	10.89	11.17
		157	5785.0	10.42	10.48
		161	5805.0	10.43	10.57
		165	5825.0	10.41	10.55

Band	DateRate	CH	Frequency (MHz)	Average Conducted power (dBm)	
				ANT-0	ANT-1
IEEE 802.11n 5GHz 40MHz	13.5M	38	5190.0	10.40	10.47
		46	5230.0	10.22	10.30
		54	5270.0	10.20	10.26
		62	5310.0	10.23	10.52
		102	5510.0	11.80	11.96
		110	5550.0	11.25	12.00
		118	5590.0	11.49	11.90
		126	5630.0	10.94	11.23
		134	5670.0	10.65	10.70
		151	5755.0	11.12	11.45
		159	5795.0	10.28	10.40
	135M	38	5190.0	10.27	10.30
		46	5230.0	10.15	10.18
		54	5270.0	10.16	10.22
		62	5310.0	10.20	10.43
		102	5510.0	11.38	11.90
		110	5550.0	11.20	11.93
		118	5590.0	11.44	11.90
		126	5630.0	10.81	11.20
		134	5670.0	10.58	10.62
		151	5755.0	10.95	11.35
		159	5795.0	10.22	10.32

4. Test Result

ANT-0										
Band	Data Rate	Frequency (MHz)	Limit (mw)	Distance [R] (cm)	Max tune-up Power (upper limit) [P] (dBm)	ANT Gain (dBi)	Numeric Gain [G]	Duty Cycle	[P] x [G] with Duty cycle [TP] (mW)	Power Density [S] (mw)/cm^2
IEEE 802.11b	1M	2412.0	1.000	20	16.00	0.76	1.19	1	47.37	0.009
		2437.0	1.000	20	16.00	0.76	1.19	1	47.37	0.009
		2462.0	1.000	20	16.00	0.76	1.19	1	47.37	0.009
IEEE 802.11g	6M	2412.0	1.000	20	15.00	0.76	1.19	1	37.63	0.007
		2437.0	1.000	20	15.00	0.76	1.19	1	37.63	0.007
		2462.0	1.000	20	15.00	0.76	1.19	1	37.63	0.007
IEEE 802.11n 2.4GHz 20MHz	6.5M	2412.0	1.000	20	14.00	0.76	1.19	1	29.89	0.006
		2437.0	1.000	20	14.00	0.76	1.19	1	29.89	0.006
		2462.0	1.000	20	14.00	0.76	1.19	1	29.89	0.006
IEEE 802.11n 2.4GHz 40MHz	13.5M	2422.0	1.000	20	13.00	0.76	1.19	1	23.74	0.005
		2437.0	1.000	20	13.00	0.76	1.19	1	23.74	0.005
		2452.0	1.000	20	13.00	0.76	1.19	1	23.74	0.005

ANT-0										
Band	Data Rate	Frequency (MHz)	Limit (mw)	Distance [R] (cm)	Max tune-up Power (upper limit) [P] (dBm)	ANT Gain (dBi)	Numeric Gain [G]	Duty Cycle	[P] x [G] with Duty cycle [TP] (mW)	Power Density [S] (mw)/cm^2
IEEE 802.11a	6M	5180	1.000	20	14.00	3.40	2.19	1	55.01	0.011
		5200	1.000	20	14.00	3.40	2.19	1	55.01	0.011
		5220	1.000	20	14.00	3.40	2.19	1	55.01	0.011
		5240	1.000	20	14.00	3.40	2.19	1	55.01	0.011
		5260	1.000	20	14.00	3.40	2.19	1	55.01	0.011
		5280	1.000	20	14.00	3.40	2.19	1	55.01	0.011
		5300	1.000	20	14.00	3.40	2.19	1	55.01	0.011
		5320	1.000	20	14.00	3.40	2.19	1	55.01	0.011
		5500	1.000	20	14.00	1.36	1.37	1	34.41	0.007
		5520	1.000	20	14.00	1.36	1.37	1	34.41	0.007
		5540	1.000	20	14.00	1.36	1.37	1	34.41	0.007
		5560	1.000	20	14.00	1.36	1.37	1	34.41	0.007
		5580	1.000	20	14.00	1.36	1.37	1	34.41	0.007
		5600	1.000	20	14.00	1.36	1.37	1	34.41	0.007
		5620	1.000	20	14.00	1.36	1.37	1	34.41	0.007
		5640	1.000	20	14.00	1.36	1.37	1	34.41	0.007
		5660	1.000	20	14.00	1.36	1.37	1	34.41	0.007
		5680	1.000	20	14.00	1.36	1.37	1	34.41	0.007
		5700	1.000	20	14.00	1.36	1.37	1	34.41	0.007
		5745	1.000	20	14.00	2.62	1.83	1	45.97	0.009
		5765	1.000	20	14.00	2.62	1.83	1	45.97	0.009
		5785	1.000	20	14.00	2.62	1.83	1	45.97	0.009
		5805	1.000	20	14.00	2.62	1.83	1	45.97	0.009
		5825	1.000	20	14.00	2.62	1.83	1	45.97	0.009

ANT-0										
Band	Data Rate	Frequency (MHz)	Limit (mw)	Distance [R] (cm)	Max tune-up Power (upper limit) [P] (dBm)	ANT Gain (dBi)	Numeric Gain [G]	Duty Cycle	[P] x [G] with Duty cycle [TP] (mW)	Power Density [S] (mw)/cm^2
IEEE 802.11n 5GHz 20MHz	6.5M	5180	1.000	20	12.00	3.40	2.19	1	34.71	0.007
		5200	1.000	20	12.00	3.40	2.19	1	34.71	0.007
		5220	1.000	20	12.00	3.40	2.19	1	34.71	0.007
		5240	1.000	20	12.00	3.40	2.19	1	34.71	0.007
		5260	1.000	20	12.00	3.40	2.19	1	34.71	0.007
		5280	1.000	20	12.00	3.40	2.19	1	34.71	0.007
		5300	1.000	20	12.00	3.40	2.19	1	34.71	0.007
		5320	1.000	20	12.00	3.40	2.19	1	34.71	0.007
		5500	1.000	20	12.00	1.36	1.37	1	21.71	0.004
		5520	1.000	20	12.00	1.36	1.37	1	21.71	0.004
		5540	1.000	20	12.00	1.36	1.37	1	21.71	0.004
		5560	1.000	20	12.00	1.36	1.37	1	21.71	0.004
		5580	1.000	20	12.00	1.36	1.37	1	21.71	0.004
		5600	1.000	20	12.00	1.36	1.37	1	21.71	0.004
		5620	1.000	20	12.00	1.36	1.37	1	21.71	0.004
		5640	1.000	20	12.00	1.36	1.37	1	21.71	0.004
		5660	1.000	20	12.00	1.36	1.37	1	21.71	0.004
		5680	1.000	20	12.00	1.36	1.37	1	21.71	0.004
		5700	1.000	20	12.00	1.36	1.37	1	21.71	0.004
		5745	1.000	20	12.00	2.62	1.83	1	29	0.006
		5765	1.000	20	12.00	2.62	1.83	1	29	0.006
		5785	1.000	20	12.00	2.62	1.83	1	29	0.006
		5805	1.000	20	12.00	2.62	1.83	1	29	0.006
		5825	1.000	20	12.00	2.62	1.83	1	29	0.006

ANT-0										
Band	Data Rate	Frequency (MHz)	Limit (mw)	Distance [R] (cm)	Max tune-up Power (upper limit) [P] (dBm)	ANT Gain (dBi)	Numeric Gain [G]	Duty Cycle	[P] x [G] with Duty cycle [TP] (mW)	Power Density [S] (mw)/cm^2
IEEE 802.11n 5GHz 40MHz	13.5M	5190	1.000	20	12.00	3.40	2.19	1	34.71	0.007
		5230	1.000	20	12.00	3.40	2.19	1	34.71	0.007
		5270	1.000	20	12.00	3.40	2.19	1	34.71	0.007
		5310	1.000	20	12.00	3.40	2.19	1	34.71	0.007
		5510	1.000	20	12.00	1.36	1.37	1	21.71	0.004
		5550	1.000	20	12.00	1.36	1.37	1	21.71	0.004
		5590	1.000	20	12.00	1.36	1.37	1	21.71	0.004
		5630	1.000	20	12.00	1.36	1.37	1	21.71	0.004
		5670	1.000	20	12.00	1.36	1.37	1	21.71	0.004
		5755	1.000	20	12.00	2.62	1.83	1	29.00	0.006
		5795	1.000	20	12.00	2.62	1.83	1	29.00	0.006

ANT-1										
Band	Data Rate	Frequency (MHz)	Limit (mw)	Distance [R] (cm)	Max tune-up Power (upper limit) [P] (dBm)	ANT Gain (dBi)	Numeric Gain [G]	Duty Cycle	[P] x [G] with Duty cycle [TP] (mW)	Power Density [S] (mw)/cm^2
IEEE 802.11b	1M	2412.0	1.000	20	16.00	0.76	1.19	1	47.37	0.009
		2437.0	1.000	20	16.00	0.76	1.19	1	47.37	0.009
		2462.0	1.000	20	16.00	0.76	1.19	1	47.37	0.009
IEEE 802.11g	6M	2412.0	1.000	20	15.00	0.76	1.19	1	37.63	0.007
		2437.0	1.000	20	15.00	0.76	1.19	1	37.63	0.007
		2462.0	1.000	20	15.00	0.76	1.19	1	37.63	0.007
IEEE 802.11n 2.4GHz 20MHz	6.5M	2412.0	1.000	20	14.00	0.76	1.19	1	29.89	0.006
		2437.0	1.000	20	14.00	0.76	1.19	1	29.89	0.006
		2462.0	1.000	20	14.00	0.76	1.19	1	29.89	0.006
IEEE 802.11n 2.4GHz 40MHz	13.5M	2422.0	1.000	20	13.00	0.76	1.19	1	23.74	0.005
		2437.0	1.000	20	13.00	0.76	1.19	1	23.74	0.005
		2452.0	1.000	20	13.00	0.76	1.19	1	23.74	0.005

ANT-1										
Band	Data Rate	Frequency (MHz)	Limit (mw)	Distance [R] (cm)	Max tune-up Power (upper limit) [P] (dBm)	ANT Gain (dBi)	Numeric Gain [G]	Duty Cycle	[P] x [G] with Duty cycle [TP] (mW)	Power Density [S] (mw)/cm^2
IEEE 802.11a	6M	5180	1.000	20	14.00	3.40	2.19	1	55.01	0.011
		5200	1.000	20	14.00	3.40	2.19	1	55.01	0.011
		5220	1.000	20	14.00	3.40	2.19	1	55.01	0.011
		5240	1.000	20	14.00	3.40	2.19	1	55.01	0.011
		5260	1.000	20	14.00	3.40	2.19	1	55.01	0.011
		5280	1.000	20	14.00	3.40	2.19	1	55.01	0.011
		5300	1.000	20	14.00	3.40	2.19	1	55.01	0.011
		5320	1.000	20	14.00	3.40	2.19	1	55.01	0.011
		5500	1.000	20	14.00	1.36	1.37	1	34.41	0.007
		5520	1.000	20	14.00	1.36	1.37	1	34.41	0.007
		5540	1.000	20	14.00	1.36	1.37	1	34.41	0.007
		5560	1.000	20	14.00	1.36	1.37	1	34.41	0.007
		5580	1.000	20	14.00	1.36	1.37	1	34.41	0.007
		5600	1.000	20	14.00	1.36	1.37	1	34.41	0.007
		5620	1.000	20	14.00	1.36	1.37	1	34.41	0.007
		5640	1.000	20	14.00	1.36	1.37	1	34.41	0.007
		5660	1.000	20	14.00	1.36	1.37	1	34.41	0.007
		5680	1.000	20	14.00	1.36	1.37	1	34.41	0.007
		5700	1.000	20	14.00	1.36	1.37	1	34.41	0.007
		5745	1.000	20	14.00	2.62	1.83	1	45.97	0.009
		5765	1.000	20	14.00	2.62	1.83	1	45.97	0.009
		5785	1.000	20	14.00	2.62	1.83	1	45.97	0.009
		5805	1.000	20	14.00	2.62	1.83	1	45.97	0.009
		5825	1.000	20	14.00	2.62	1.83	1	45.97	0.009

ANT-1										
Band	Data Rate	Frequency (MHz)	Limit (mw)	Distance [R] (cm)	Max tune-up Power (upper limit) [P] (dBm)	ANT Gain (dBi)	Numeric Gain [G]	Duty Cycle	[P] x [G] with Duty cycle [TP] (mW)	Power Density [S] (mw)/cm^2
IEEE 802.11n 5GHz 20MHz	6.5M	5180	1.000	20	12.00	3.40	2.19	1	34.71	0.007
		5200	1.000	20	12.00	3.40	2.19	1	34.71	0.007
		5220	1.000	20	12.00	3.40	2.19	1	34.71	0.007
		5240	1.000	20	12.00	3.40	2.19	1	34.71	0.007
		5260	1.000	20	12.00	3.40	2.19	1	34.71	0.007
		5280	1.000	20	12.00	3.40	2.19	1	34.71	0.007
		5300	1.000	20	12.00	3.40	2.19	1	34.71	0.007
		5320	1.000	20	12.00	3.40	2.19	1	34.71	0.007
		5500	1.000	20	12.00	1.36	1.37	1	21.71	0.004
		5520	1.000	20	12.00	1.36	1.37	1	21.71	0.004
		5540	1.000	20	12.00	1.36	1.37	1	21.71	0.004
		5560	1.000	20	12.00	1.36	1.37	1	21.71	0.004
		5580	1.000	20	12.00	1.36	1.37	1	21.71	0.004
		5600	1.000	20	12.00	1.36	1.37	1	21.71	0.004
		5620	1.000	20	12.00	1.36	1.37	1	21.71	0.004
		5640	1.000	20	12.00	1.36	1.37	1	21.71	0.004
		5660	1.000	20	12.00	1.36	1.37	1	21.71	0.004
		5680	1.000	20	12.00	1.36	1.37	1	21.71	0.004
		5700	1.000	20	12.00	1.36	1.37	1	21.71	0.004
		5745	1.000	20	12.00	2.62	1.83	1	29.00	0.006
		5765	1.000	20	12.00	2.62	1.83	1	29.00	0.006
		5785	1.000	20	12.00	2.62	1.83	1	29.00	0.006
		5805	1.000	20	12.00	2.62	1.83	1	29.00	0.006
		5825	1.000	20	12.00	2.62	1.83	1	29.00	0.006

ANT-1										
Band	Data Rate	Frequency (MHz)	Limit (mw)	Distance [R] (cm)	Max tune-up Power (upper limit) [P] (dBm)	ANT Gain (dBi)	Numeric Gain [G]	Duty Cycle	[P] x [G] with Duty cycle [TP] (mW)	Power Density [S] (mw)/cm^2
IEEE 802.11n 5GHz 40MHz	13.5M	5190	1.000	20	12.00	3.40	2.19	1	34.71	0.007
		5230	1.000	20	12.00	3.40	2.19	1	34.71	0.007
		5270	1.000	20	12.00	3.40	2.19	1	34.71	0.007
		5310	1.000	20	12.00	3.40	2.19	1	34.71	0.007
		5510	1.000	20	12.00	1.36	1.37	1	21.71	0.004
		5550	1.000	20	12.00	1.36	1.37	1	21.71	0.004
		5590	1.000	20	12.00	1.36	1.37	1	21.71	0.004
		5630	1.000	20	12.00	1.36	1.37	1	21.71	0.004
		5670	1.000	20	12.00	1.36	1.37	1	21.71	0.004
		5755	1.000	20	12.00	2.62	1.83	1	29.00	0.006
		5795	1.000	20	12.00	2.62	1.83	1	29.00	0.006

Note:

1. The Numeric Gain calculated by 10^(ant. Gain(dBi) /10).
2. The device operating mode is Diversity with transmit signals to 1TX.