

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BSB9-DKCY1

Company : D.CO INTERNATIONAL EQUIPMENT
MANUFACTURING (HENAN) CO.,LTD.

EUT : Intelligent liquid dispenser

Model Number : DK-CY1

Report No. : CTA25101400202

Reviewed By : Eric Wang

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.400	2407.080	2416.480	0.5	PASS
		2437	9.080	2432.440	2441.520	0.5	PASS
		2462	8.840	2457.520	2466.360	0.5	PASS
11G	Ant1	2412	16.400	2403.840	2420.240	0.5	PASS
		2437	16.320	2428.880	2445.200	0.5	PASS
		2462	16.400	2453.840	2470.240	0.5	PASS
11N20SISO	Ant1	2412	17.360	2403.360	2420.720	0.5	PASS
		2437	17.440	2428.320	2445.760	0.5	PASS
		2462	17.320	2453.400	2470.720	0.5	PASS
11N40SISO	Ant1	2422	33.920	2405.360	2439.280	0.5	PASS
		2437	34.080	2420.040	2454.120	0.5	PASS
		2452	33.600	2435.440	2469.040	0.5	PASS

11B_Ant1_2412

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.41200000 GHz

Ref Offset 0.2 dB
Ref 20.00 dBm

ΔMkr3 9.40 MHz
-0.021 dB

Center 2.41200 GHz
#Res BW 300 kHz
#VBW 1.0 MHz
Sweep (#Swp) 1,000 ms (1001 pts)

MKR	MODE	TRC	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.407 08 GHz	-2.502 dBm			
2	N	1	f	2.412 96 GHz	3.357 dBm			
3	Δ1	1	f (Δ)	9.40 MHz (Δ)	-0.021 dB			

11B_Ant1_2437

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.437000000 GHz

Ref Offset 0.2 dB
Ref 20.00 dBm

ΔMkr3 9.08 MHz
0.309 dB

Center 2.43700 GHz
#Res BW 300 kHz
#VBW 1.0 MHz
Sweep (#Swp) 1,000 ms (1001 pts)

MKR	MODE	TRC	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.432 44 GHz	-1.465 dBm			
2	N	1	f	2.436 60 GHz	4.535 dBm			
3	Δ1	1	f (Δ)	9.08 MHz (Δ)	0.309 dB			



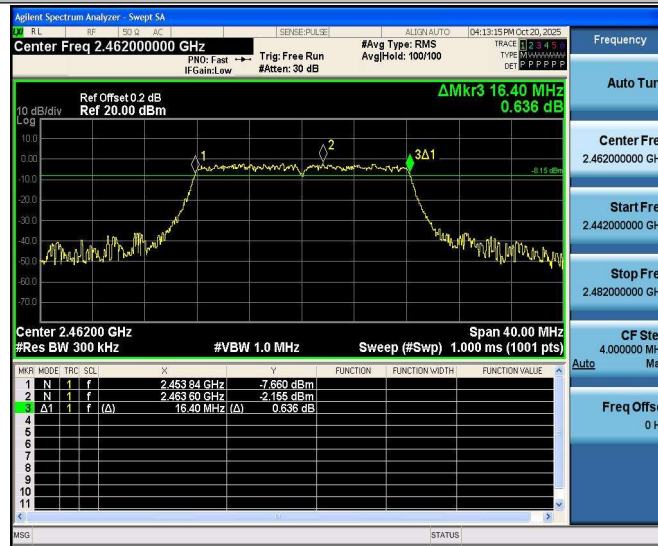
11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



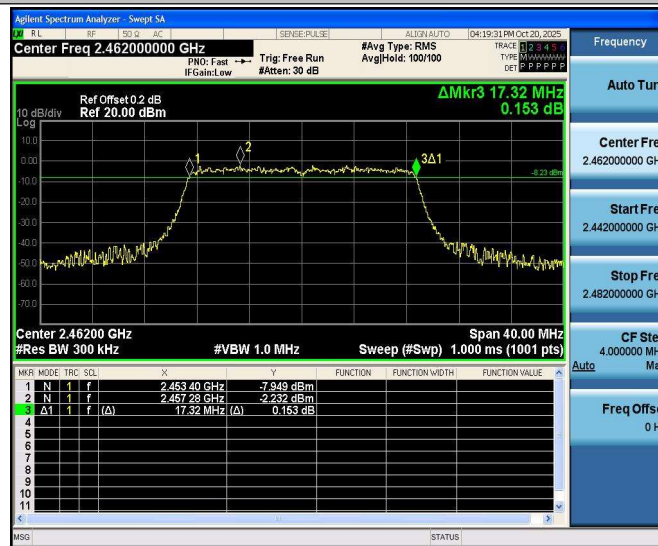
11N20SISO_Ant1_2412



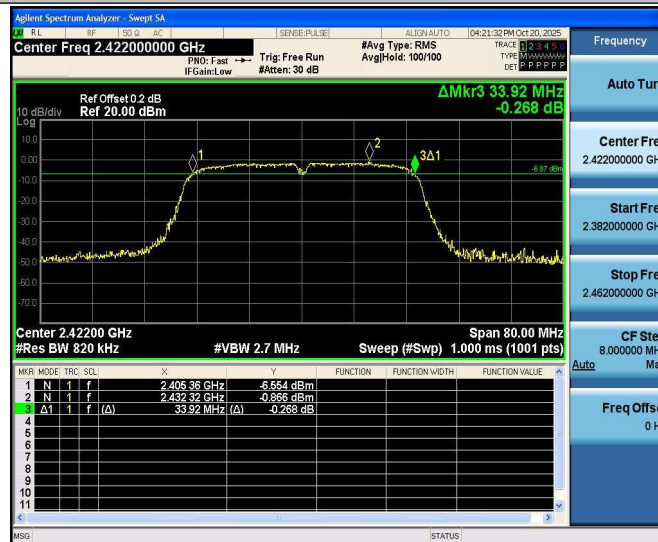
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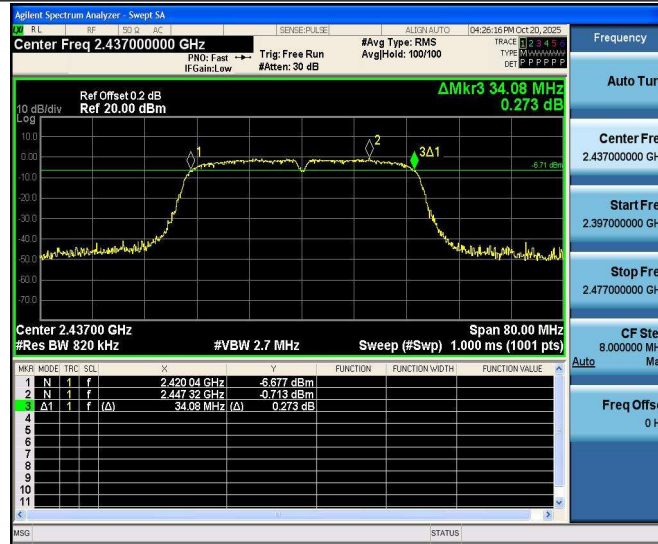
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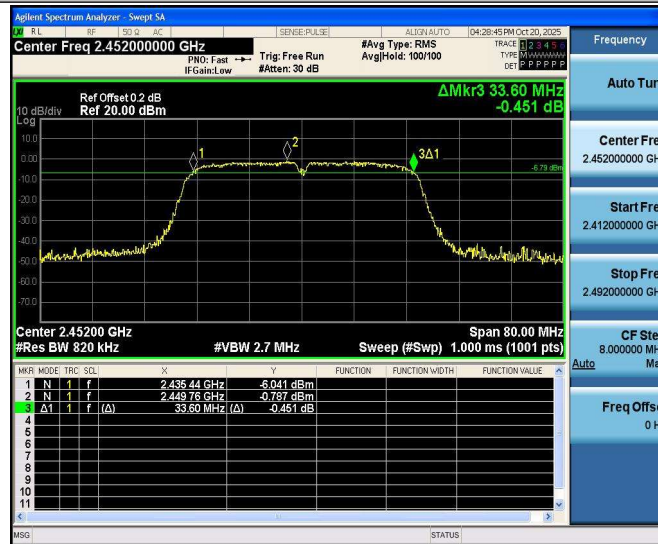
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



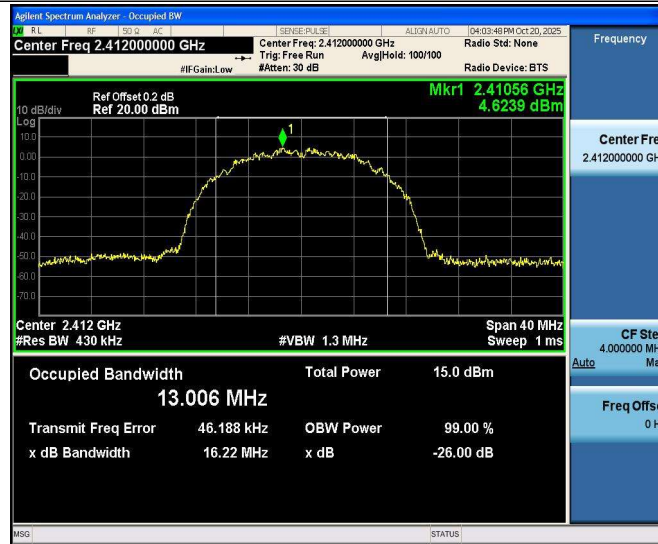
Appendix B: Occupied Channel Bandwidth

Test Result

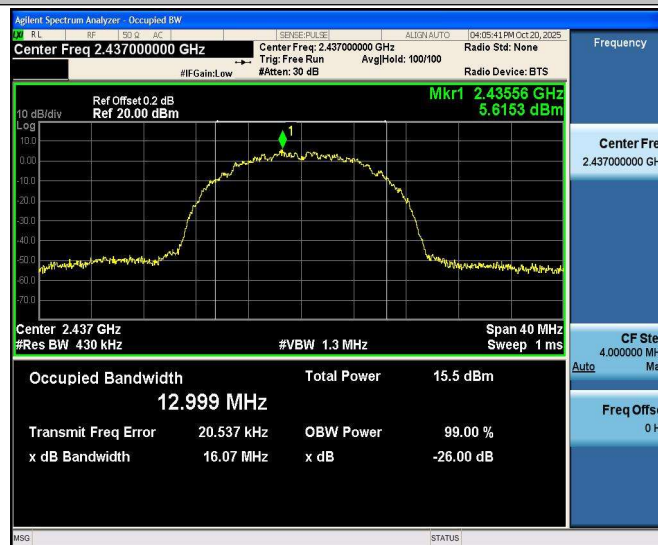
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.006	2405.5432	2418.5492	---	---
		2437	12.999	2430.5210	2443.5200	---	---
		2462	13.005	2455.5076	2468.5126	---	---
11G	Ant1	2412	16.576	2403.7594	2420.3354	---	---
		2437	16.541	2428.7827	2445.3237	---	---
		2462	16.590	2453.7358	2470.3258	---	---
11N20SISO	Ant1	2412	17.456	2403.3246	2420.7806	---	---
		2437	17.458	2428.3130	2445.7710	---	---
		2462	17.482	2453.2988	2470.7808	---	---
11N40SISO	Ant1	2422	34.823	2404.7347	2439.5577	---	---
		2437	34.805	2419.7493	2454.5543	---	---
		2452	34.858	2434.6618	2469.5198	---	---

Test Graphs

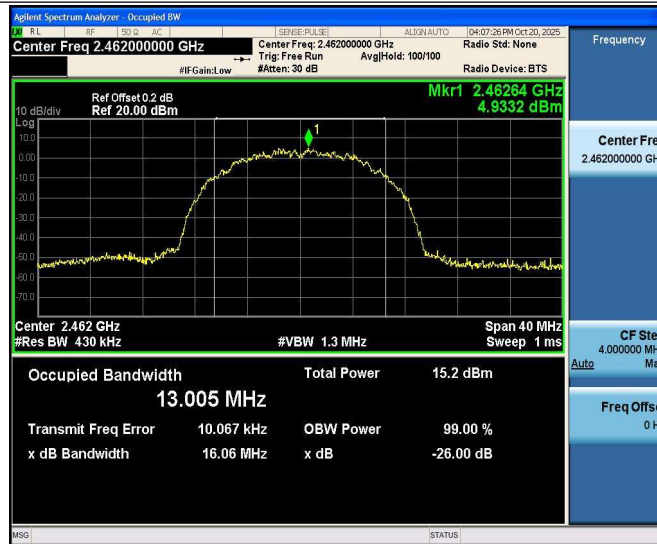
11B_Ant1_2412



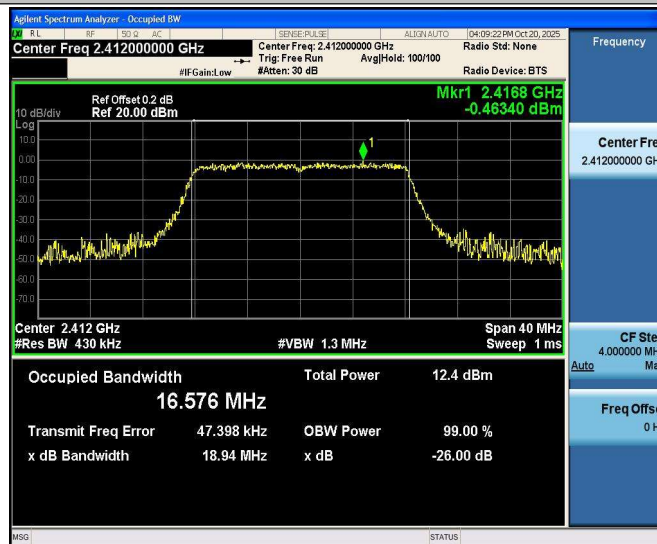
11B_Ant1_2437



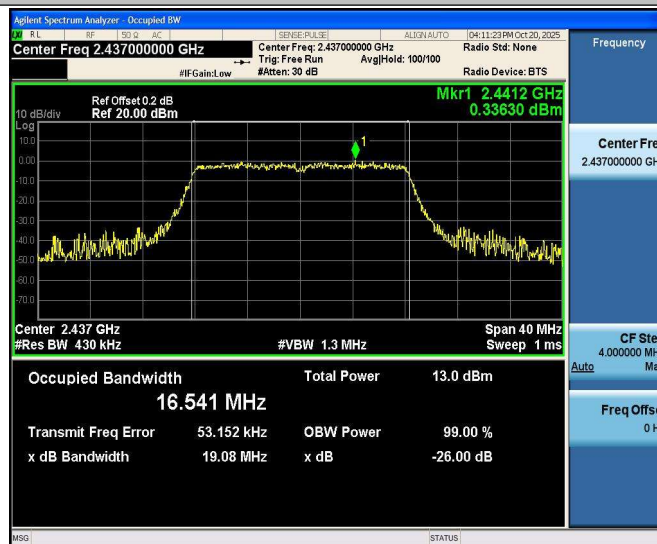
11B_Ant1_2462



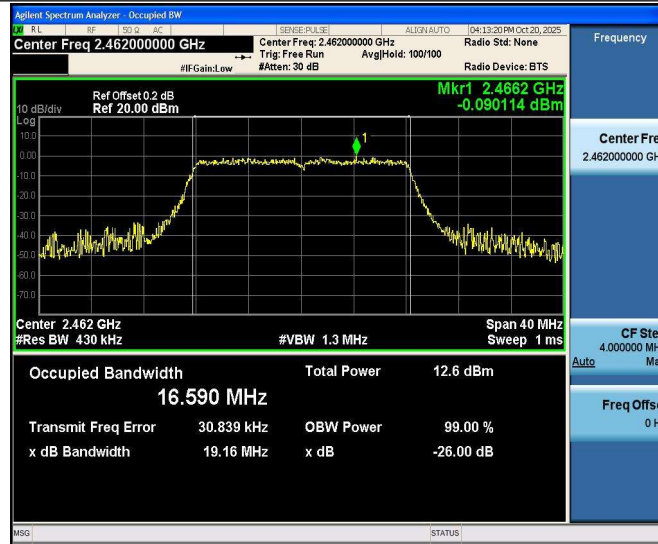
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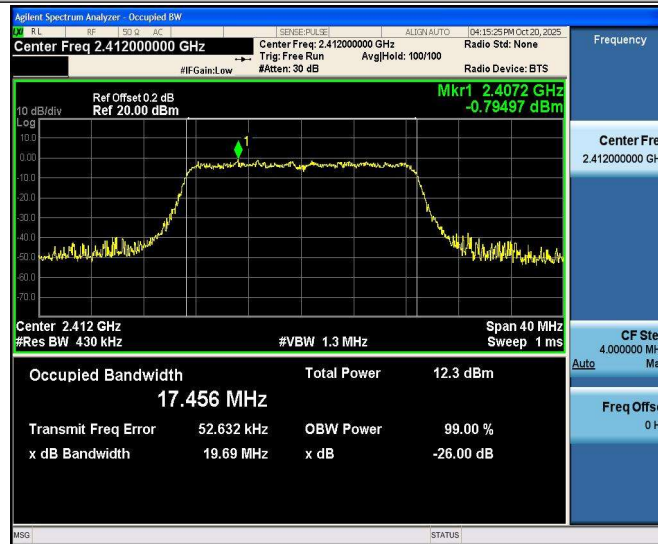
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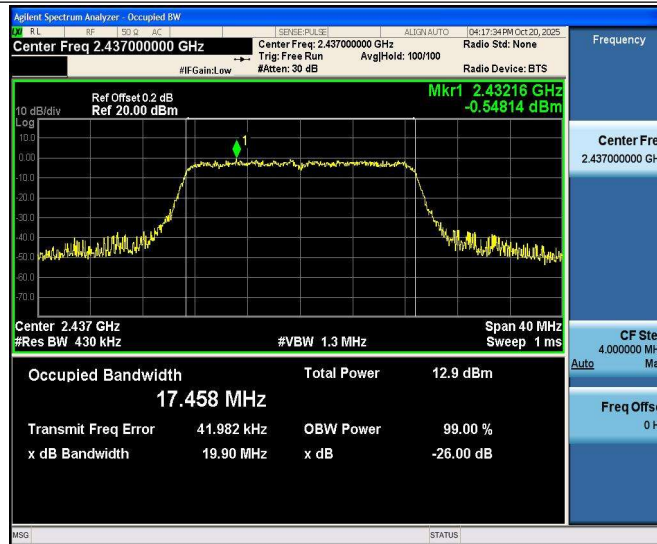
11G_Ant1_2462



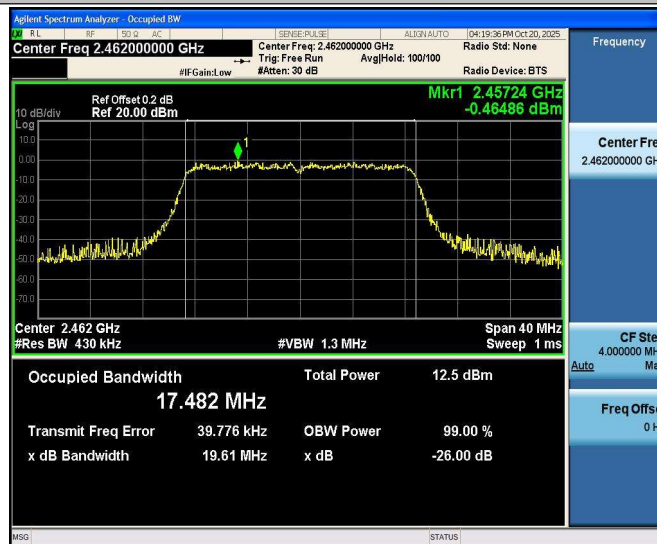
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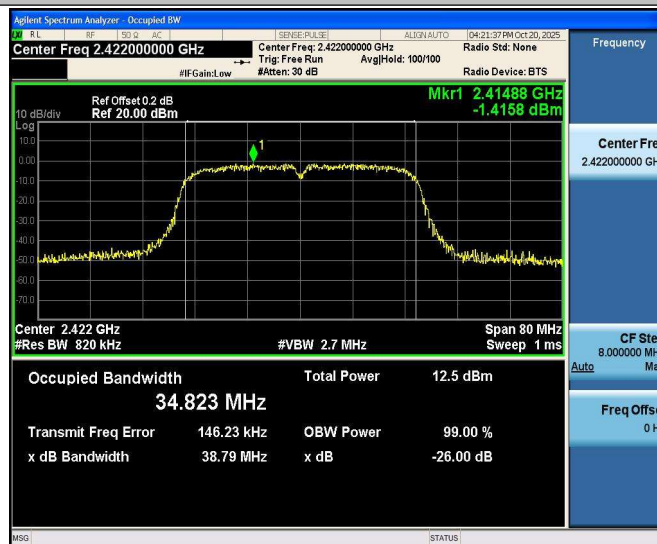
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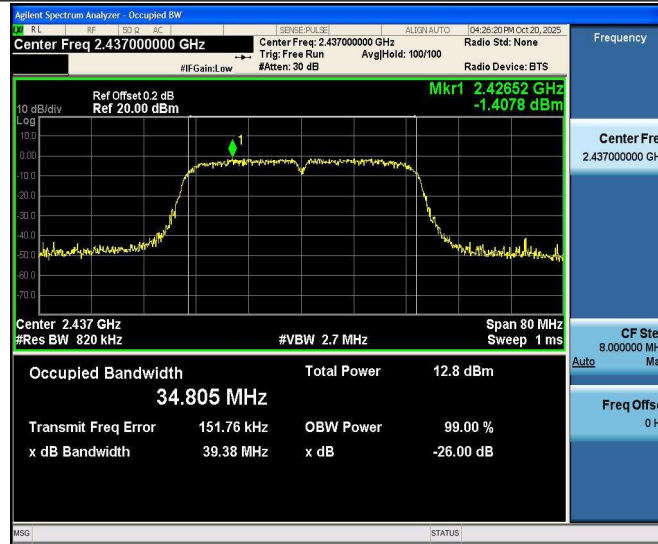
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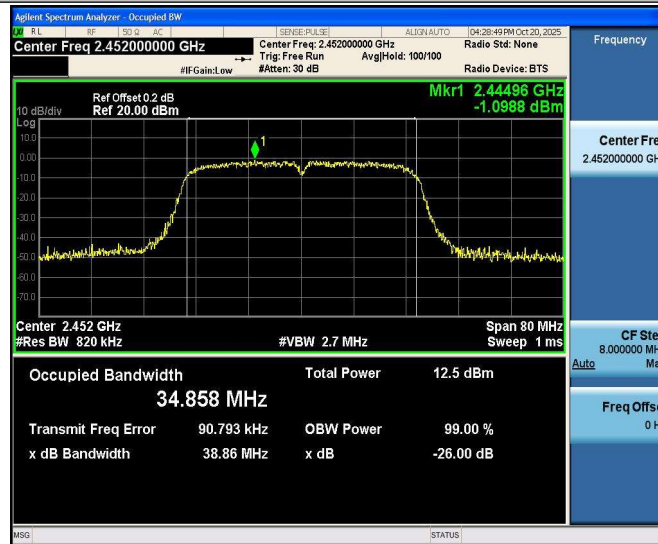
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.46	≤30.00	PASS
		2437	15.02	≤30.00	PASS
		2462	14.68	≤30.00	PASS
11G	Ant1	2412	13.02	≤30.00	PASS
		2437	13.68	≤30.00	PASS
		2462	13.42	≤30.00	PASS
11N20SISO	Ant1	2412	13.41	≤30.00	PASS
		2437	14.01	≤30.00	PASS
		2462	13.68	≤30.00	PASS
11N40SISO	Ant1	2422	12.70	≤30.00	PASS
		2437	12.97	≤30.00	PASS
		2452	12.70	≤30.00	PASS

Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-14.42	≤8.00	PASS
		2437	-14.50	≤8.00	PASS
		2462	-14.10	≤8.00	PASS
11G	Ant1	2412	-21.36	≤8.00	PASS
		2437	-20.62	≤8.00	PASS
		2462	-20.93	≤8.00	PASS
11N20SISO	Ant1	2412	-21.12	≤8.00	PASS
		2437	-20.42	≤8.00	PASS
		2462	-20.74	≤8.00	PASS
11N40SISO	Ant1	2422	-21.67	≤8.00	PASS
		2437	-21.63	≤8.00	PASS
		2452	-22.51	≤8.00	PASS