

Appendix RF Test Data for BLE

FCC ID : 2BSB9-DK-CY1

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

EUT : Intelligent liquid dispenser

Model Number : DK-CY1

Report No. : CTA25062600301

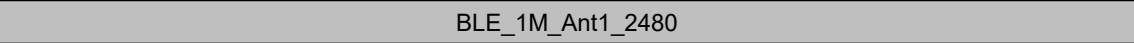
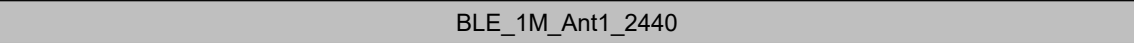
Reviewed By : Eric Wang

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.632	2401.700	2402.332	0.5	PASS
		2440	0.632	2439.692	2440.324	0.5	PASS
		2480	0.640	2479.696	2480.336	0.5	PASS

BLE_1M_Ant1_2402



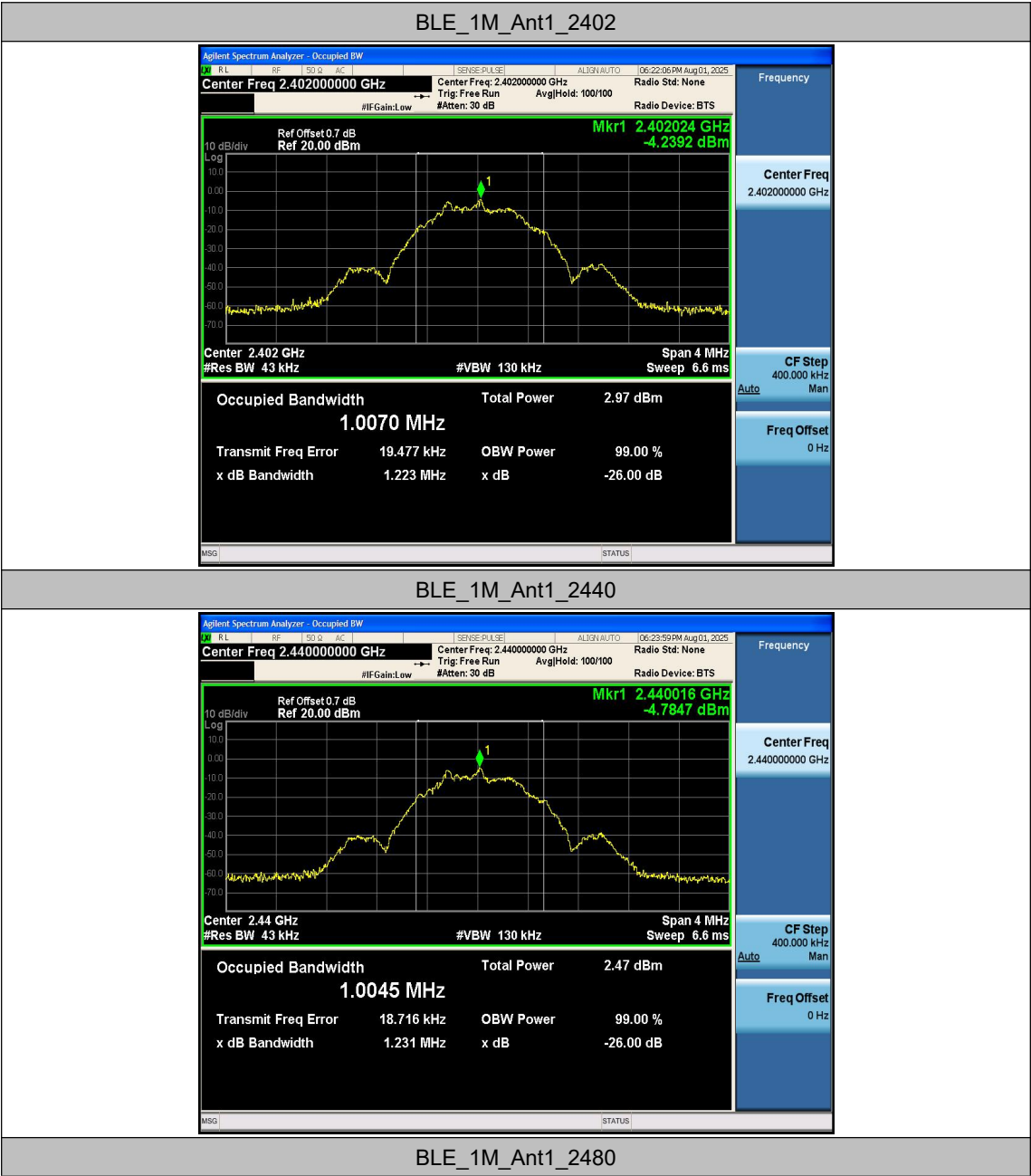


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0070	2401.5160	2402.5230	---	---
		2440	1.0045	2439.5165	2440.5210	---	---
		2480	1.0067	2479.5162	2480.5229	---	---

Test Graphs





Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.02	≤30	PASS
		2440	-3.65	≤30	PASS
		2480	-3.92	≤30	PASS

Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.82	≤8.00	PASS
		2440	-19.18	≤8.00	PASS
		2480	-19.63	≤8.00	PASS

Test Graphs

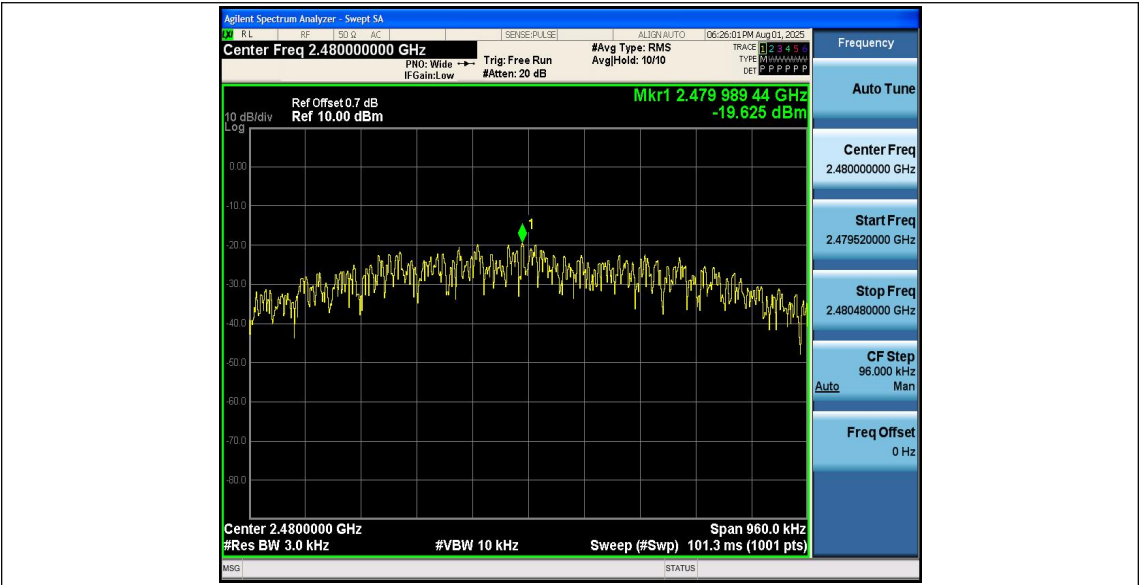
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



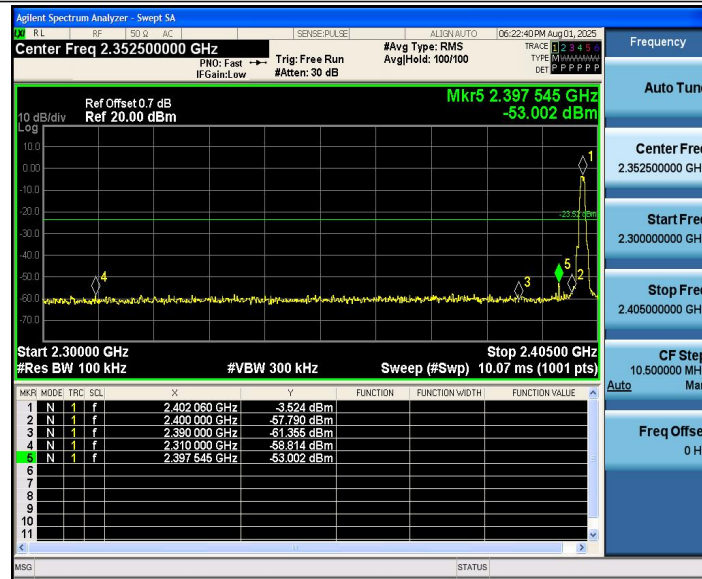
Appendix E: Band edge measurements

Test Result

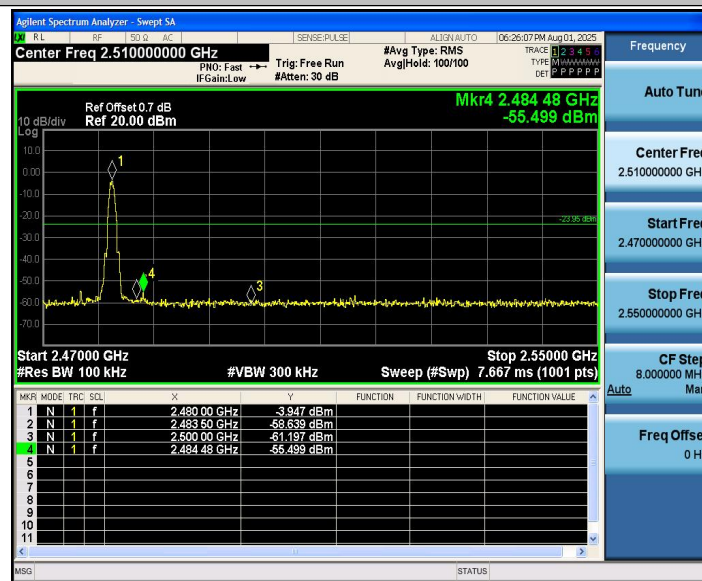
TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.52	-53	≤-23.52	PASS
		High	2480	-3.95	-55.5	≤-23.95	PASS

Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



Appendix F: Conducted Spurious Emission

Test Result

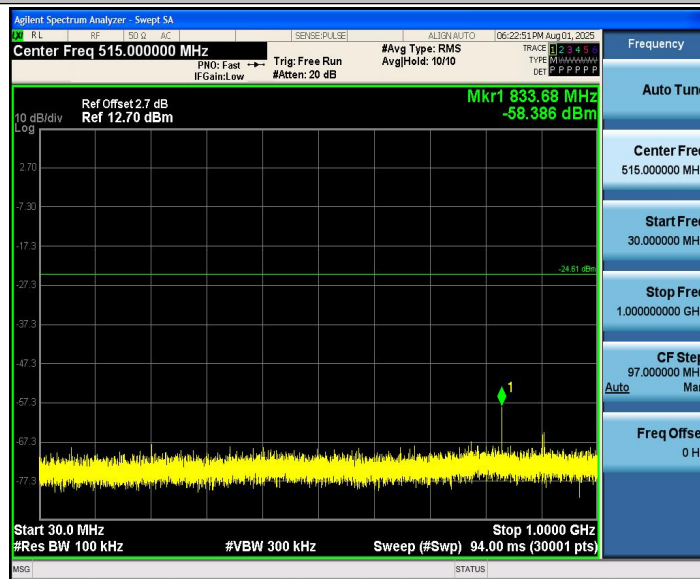
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-4.61	-4.61	---	PASS
			30~1000	-4.61	-58.39	≤-24.61	PASS
			1000~26500	-4.61	-47.69	≤-24.61	PASS
		2440	Reference	-4.59	-4.59	---	PASS
			30~1000	-4.59	-67.93	≤-24.59	PASS
			1000~26500	-4.59	-48.69	≤-24.59	PASS
		2480	Reference	-4.34	-4.34	---	PASS
			30~1000	-4.34	-67.35	≤-24.34	PASS
			1000~26500	-4.34	-46.27	≤-24.34	PASS

Test Graphs

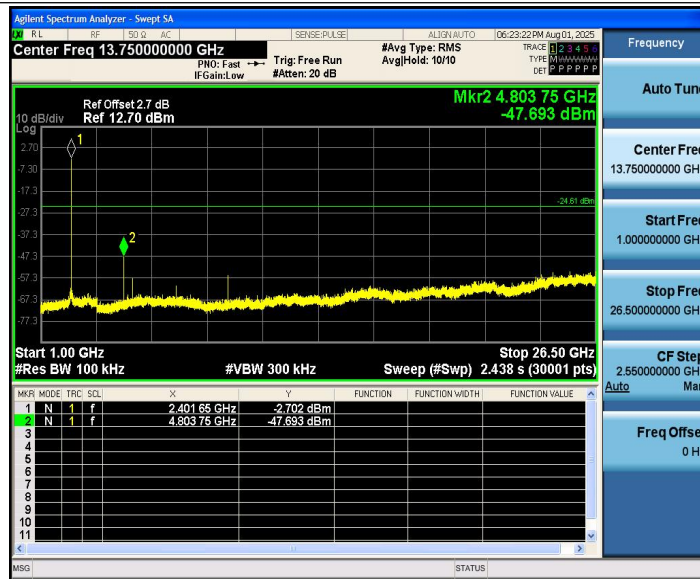
BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



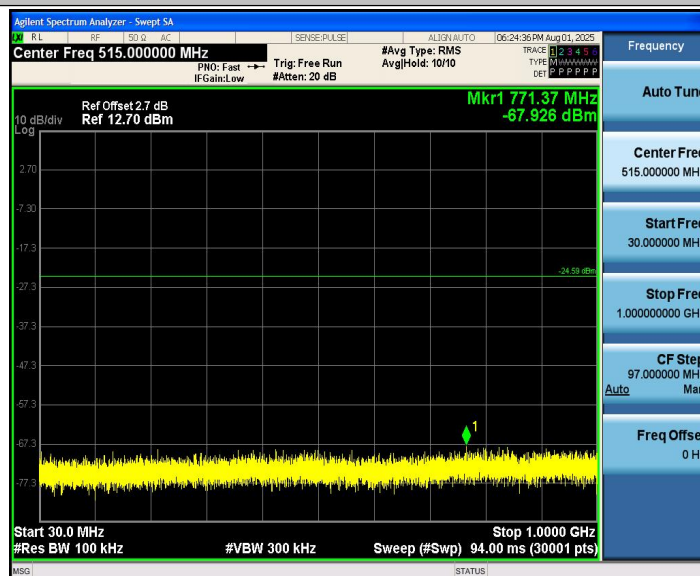
BLE_1M_Ant1_2402_1000~26500



BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



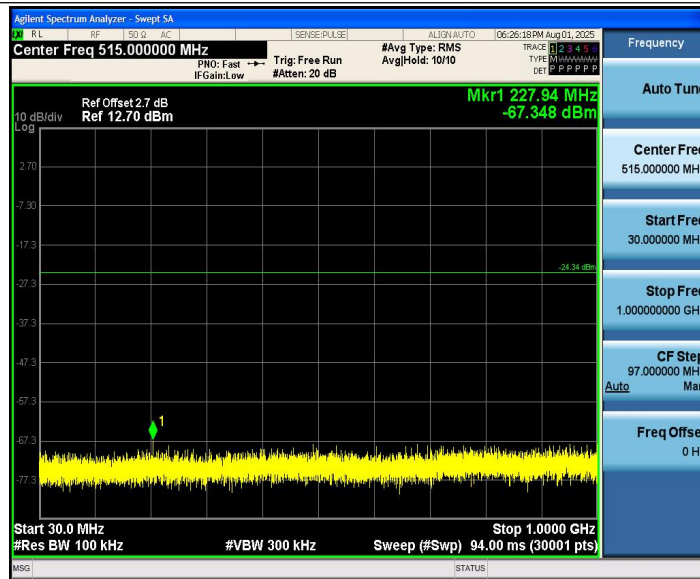
BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	0.41	0.63	0.6508	65.08	1.87	---	---
		2440	0.41	0.63	0.6508	65.08	1.87	---	---
		2480	0.41	0.63	0.6508	65.08	1.87	---	---

Test Graphs

