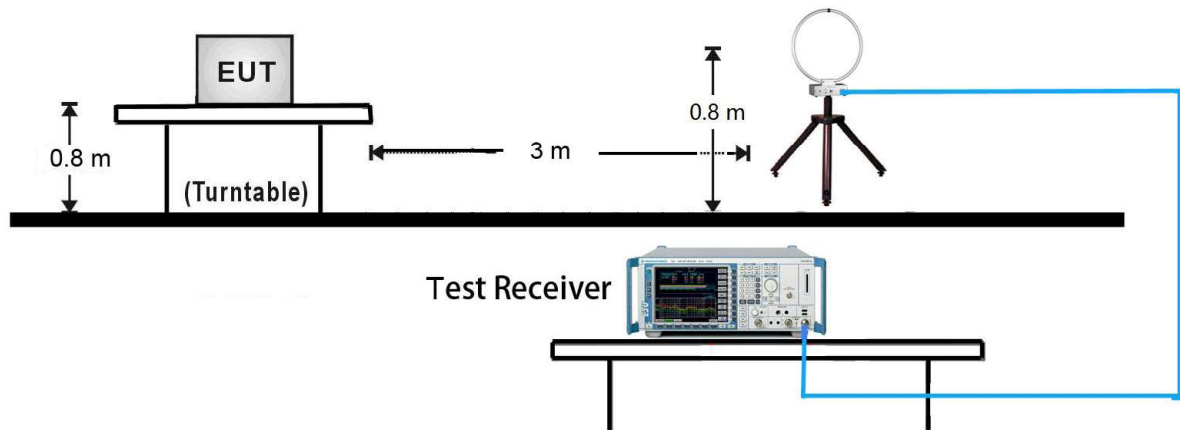
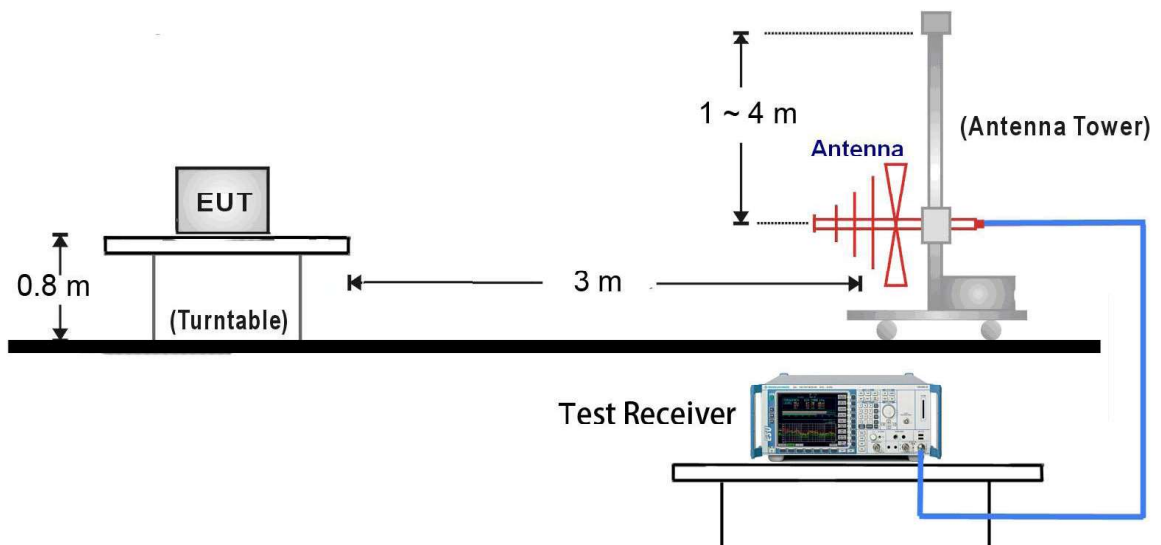


7.6.4. Test Setup

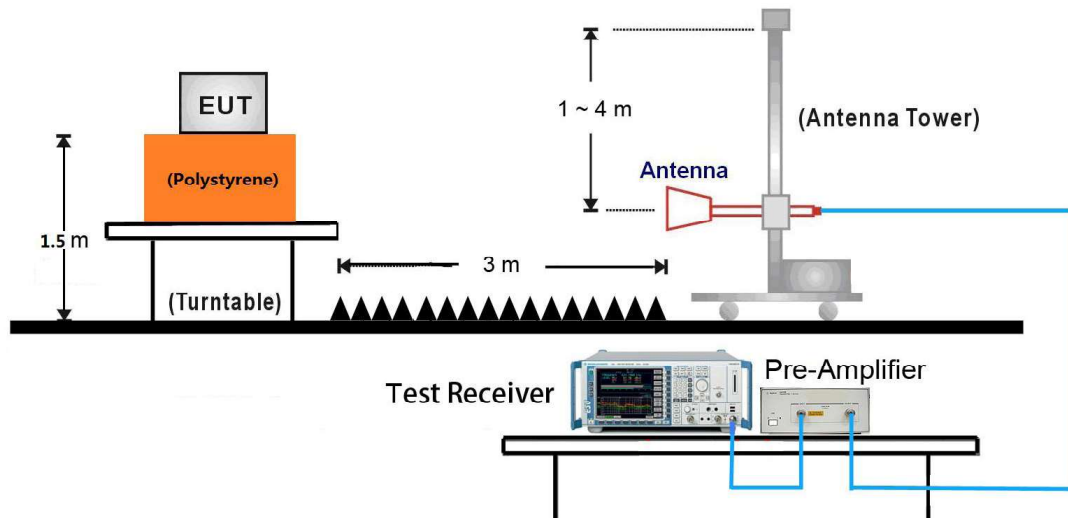
9kHz ~ 30MHz Test Setup:



30MHz ~ 1GHz Test Setup:



1GHz ~ 26.5GHz Test Setup:



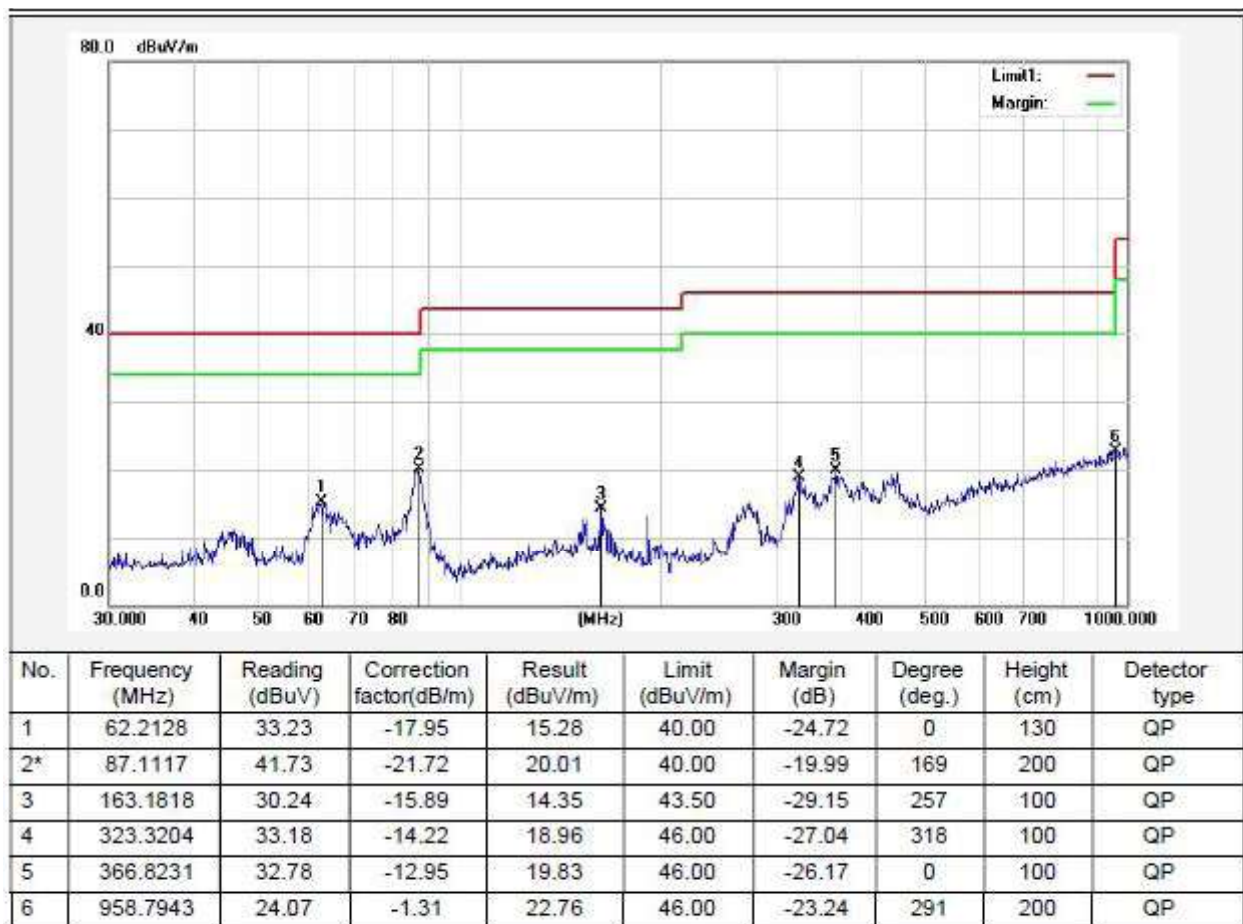
7.6.5. Test Result

Below 1GHz

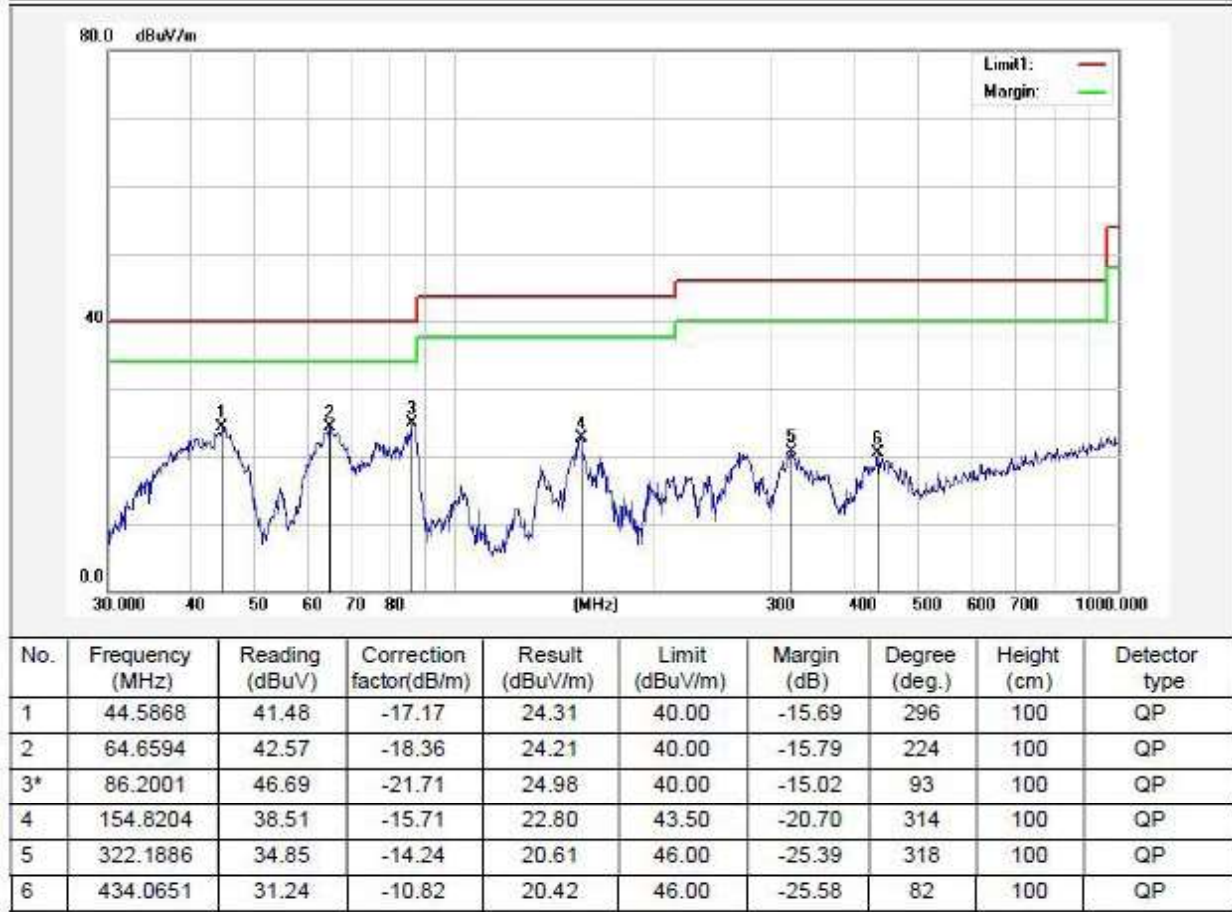
Note: Pre-scan all modes , only the worst case(TX_BLE_2M_2402MHz) is recorded, in this report.

Product	Smart Lock U400	Model No.	DL-D06E
Power supply:	DC 7.3V	Environmental Conditions:	21.7°C/49%RH/101.0kPa
Test Engineer:	Chuang Li	Test Date:	2025-02-14

Horizontal:

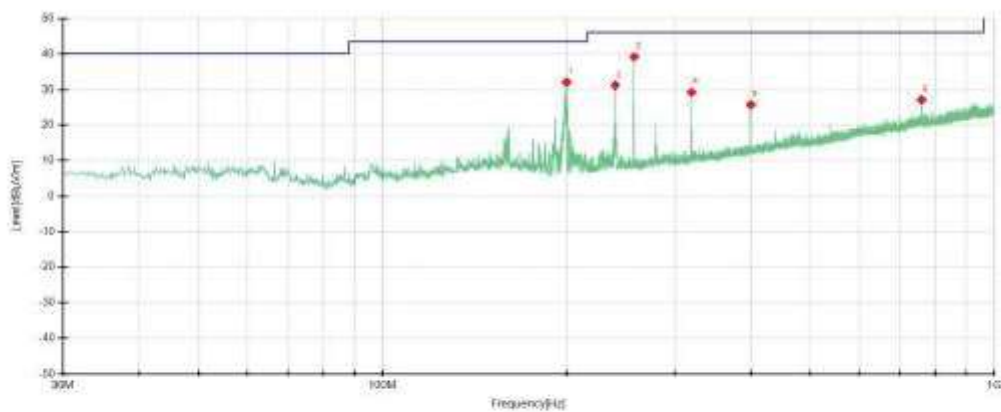


Vertical:



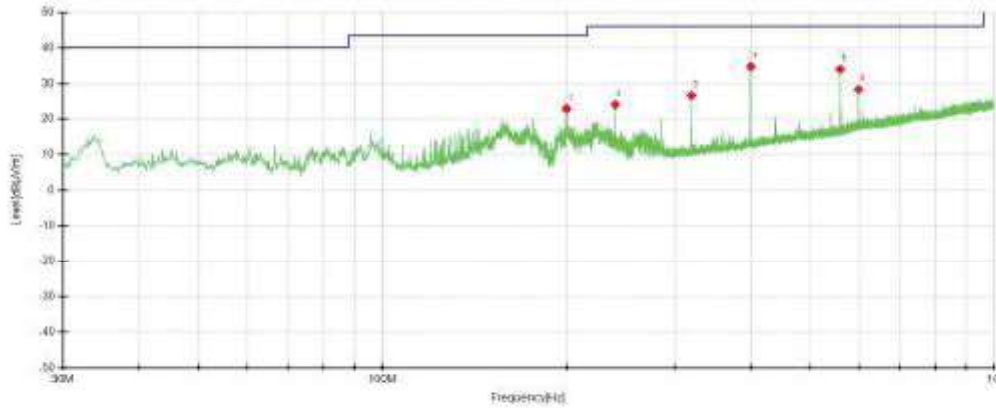
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Product	Smart Lock U400	Model No.	DL-D06D
Power supply:	DC 7.3V	Environmental Conditions:	22.7°C/51%RH/101.0kPa
Test Engineer:	Chuang Li	Test Date:	2025-04-02



Suspected Data List												
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity	Verdict	
1	199.8925	63.52	32.02	-31.50	43.50	11.48	QP	200	184	Horizontal	PASS	
2	240.0313	60.73	31.19	-29.54	46.00	14.81	QP	100	293	Horizontal	PASS	
3	257.7360	68.46	39.11	-29.35	46.00	6.89	QP	200	29	Horizontal	PASS	
4	319.9450	56.22	29.26	-26.96	46.00	16.74	QP	100	163	Horizontal	PASS	
5	399.9800	49.83	25.72	-24.11	46.00	20.28	QP	200	314	Horizontal	PASS	
6	760.0163	44.22	27.11	-17.11	46.00	18.89	QP	100	227	Horizontal	PASS	

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Suspected Data List											
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity	Verdict
1	199.8925	54.40	22.90	-31.50	43.50	20.60	QP	200	113	Vertical	PASS
2	240.0313	53.59	24.05	-29.54	46.00	21.95	QP	200	48	Vertical	PASS
3	319.9450	53.57	26.61	-26.96	46.00	19.39	QP	200	113	Vertical	PASS
4	399.9800	58.86	34.75	-24.11	46.00	11.25	QP	100	300	Vertical	PASS
5	560.0500	54.08	33.97	-20.11	46.00	12.03	QP	200	48	Vertical	PASS
6	599.9462	47.47	28.35	-19.12	46.00	17.65	QP	100	41	Vertical	PASS

Remark:

- 1 No emission found between lowest internal used/generated frequency to 30MHz.
- 2 Radiated emissions measured in frequency range from 9kHz to 1GHz were made with an instrument using Quasi-peak detector mode.
- 3 The IF bandwidth of Receiver between 30MHz to 1GHz was 120kHz.
- 4 If the margin of the pre-test results is greater than 6dB, it meets the requirements of quasi peak or average values, and final testing is no longer required.

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1GHz-18GHz:

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

Product	Smart Lock U400	Model No.	DL-D06E
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Mode: TX/ BLE_1M

Lowest Frequency (2402MHz)

Environment: 21.7°C/49%RH/101.0kPa

Tested By: Chuang Li

/

Voltage:DC 7.3V

Date: 2025-02-14

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1887.6000	46.76	42.33	-4.43	74.00	31.67	200	341	Horizontal
2	2471.6000	46.78	46.29	-0.49	74.00	27.71	200	301	Horizontal
3	4803.0000	56.45	48.91	-7.54	74.00	25.09	200	304	Horizontal
4	7206.0000	44.67	45.58	0.91	74.00	28.42	200	226	Horizontal
5	13114.5000	34.88	50.67	15.79	74.00	23.33	100	178	Horizontal
6	14725.5000	35.78	50.15	14.37	74.00	23.85	100	47	Horizontal

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4803.9730	-6.49	32.44	25.95	54.00	28.05	100	306.9	Horizontal
2	13103.8675	15.79	23.39	39.18	54.00	14.82	194	133.6	Horizontal
3	14704.8325	14.37	23.69	38.06	54.00	15.94	162	48.1	Horizontal

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2025.2000	47.28	42.43	-4.85	74.00	31.57	200	327	Vertical
2	2494.8000	46.69	46.11	-0.58	74.00	27.89	200	89	Vertical
3	4803.0000	61.73	54.69	-7.04	74.00	19.31	200	309	Vertical
4	7314.0000	44.38	45.87	1.49	74.00	28.13	100	297	Vertical
5	13093.5000	35.45	49.95	14.50	74.00	24.05	200	98	Vertical
6	14712.0000	35.43	53.24	17.81	74.00	20.76	200	178	Vertical

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4803.9730	-5.99	38.59	32.60	54.00	21.40	129	331.1	Vertical
2	13107.1425	14.50	23.16	37.66	54.00	16.34	127	127.9	Vertical
3	14700.0800	17.81	23.77	41.58	54.00	12.42	100	153.7	Vertical

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Mode: TX/ BLE_1M

Middle Frequency (2440MHz)

Environment: 21.7°C/49%RH/101.0kPa

Tested By:Chuang Li

Voltage:DC 7.3V

Date: 2025-02-14

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1913.2000	47.00	42.79	-4.21	74.00	31.21	200	241	Horizontal
2	2494.0000	47.33	47.09	-0.24	74.00	26.91	200	20	Horizontal
3	4879.5000	57.49	50.26	-7.23	74.00	23.74	200	301	Horizontal
4	7318.5000	44.67	45.79	1.12	74.00	28.21	200	224	Horizontal
5	9817.5000	39.08	47.70	8.62	74.00	26.30	100	277	Horizontal
6	13105.5000	34.27	50.33	16.06	74.00	23.67	200	2	Horizontal

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880.0645	-5.65	32.74	27.09	54.00	26.91	139	288.1	Horizont
2	13105.4786	16.06	23.21	39.27	54.00	14.73	200	2	Horizont

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1933.4000	47.68	42.82	-4.86	74.00	31.18	200	139	Vertical
2	2501.2000	47.56	47.04	-0.52	74.00	26.96	200	166	Vertical
3	2917.2000	47.89	47.11	-0.78	74.00	26.89	200	325	Vertical
4	4879.5000	60.29	53.22	-7.07	74.00	20.78	200	313	Vertical
5	7320.0000	44.88	46.47	1.59	74.00	27.53	100	340	Vertical
6	14694.0000	34.98	52.82	17.84	74.00	21.18	100	41	Vertical

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4879.9235	-5.49	38.35	32.86	54.00	21.14	138	330.9	Vertical
2	14693.9875	17.84	23.65	41.49	54.00	12.51	100	41	Vertical

Mode: TX/ BLE_1M

Highest Frequency (2480MHz)

Environment: 21.7°C/49%RH/101.0kPa

Tested By:Chuang Li

Voltage:DC 7.3V

Date: 2025-02-14

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1901.8000	46.83	42.73	-4.10	74.00	31.27	100	263	Horizontal
2	2480.0000	46.81	46.41	-0.40	74.00	27.59	100	289	Horizontal
3	4197.0000	49.69	40.33	-9.36	74.00	33.67	100	294	Horizontal
4	4959.0000	58.45	51.69	-6.76	74.00	22.31	200	294	Horizontal
5	8719.5000	40.96	47.14	6.18	74.00	26.86	200	294	Horizontal
6	13098.0000	34.32	50.46	16.14	74.00	23.54	100	150	Horizontal

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4959.9330	-5.06	32.63	27.57	54.00	26.43	200	316.4	Horizontal
2	13097.8945	16.14	23.15	39.29	54.00	14.71	100	150	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1883.2000	47.94	42.96	-4.98	74.00	31.04	200	146	Vertical
2	2480.0000	47.38	46.48	-0.90	74.00	27.52	100	326	Vertical
3	3955.5000	49.25	38.83	-10.42	74.00	35.17	200	330	Vertical
4	4959.0000	59.44	52.46	-6.98	74.00	21.54	200	304	Vertical
5	7272.0000	44.14	45.30	1.16	74.00	28.70	100	113	Vertical
6	14695.5000	35.05	53.02	17.97	74.00	20.98	200	20	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4959.9330	-5.28	38.65	33.37	54.00	20.63	137	327.7	Vertical
2	14695.4625	17.97	23.55	41.52	54.00	12.48	200	20	Vertical

Mode: TX/ BLE_2M

Lowest Frequency (2402MHz)

Environment: 21.7°C/49%RH/101.0kPa

Tested By: Chuang Li

Voltage:DC 7.3V

Date: 2025-02-14

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1944.8000	47.42	42.88	-4.54	74.00	31.12	200	340	Horizontal
2	2493.6000	46.78	46.53	-0.25	74.00	27.47	100	53	Horizontal
3	3286.5000	50.79	38.22	-12.57	74.00	35.78	200	218	Horizontal
4	4804.5000	55.98	48.45	-7.53	74.00	25.55	200	334	Horizontal
5	7204.5000	45.57	46.48	0.91	74.00	27.52	200	230	Horizontal
6	13102.5000	34.67	50.83	16.16	74.00	23.17	200	190	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4803.9435	-6.47	32.43	25.96	54.00	28.04	200	94.3	Horizontal
2	13102.4572	16.16	23.17	39.33	54.00	14.67	200	190	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1970.6000	47.75	42.85	-4.90	74.00	31.15	100	326	Vertical
2	2496.6000	46.70	46.15	-0.55	74.00	27.85	200	339	Vertical
3	4803.0000	59.97	52.93	-7.04	74.00	21.07	200	306	Vertical
4	7204.5000	44.84	45.40	0.56	74.00	28.60	100	138	Vertical
5	9273.0000	39.65	47.04	7.39	74.00	26.96	100	21	Vertical
6	14700.0000	34.77	53.12	18.35	74.00	20.88	200	162	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4803.9730	-5.99	38.65	32.66	54.00	21.34	200	328.5	Vertical
2	14698.7524	18.35	23.56	41.91	54.00	12.09	200	162	Vertical

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Mode: TX/ BLE_2M

Middle Frequency (2440MHz)

Environment: 21.7°C/49%RH/101.0kPa

Tested By:Chuang Li

Voltage:DC 7.3V

Date: 2025-02-14

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2169.6000	47.18	43.18	-4.00	74.00	30.82	100	0	Horizontal
2	2472.6000	47.06	46.57	-0.49	74.00	27.43	200	145	Horizontal
3	2769.0000	47.35	45.75	-1.60	74.00	28.25	200	53	Horizontal
4	4878.0000	57.39	50.14	-7.25	74.00	23.86	200	293	Horizontal
5	7318.5000	46.06	47.18	1.12	74.00	26.82	200	227	Horizontal
6	13104.0000	35.09	51.19	16.10	74.00	22.81	200	344	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4879.9770	-5.66	32.16	26.50	54.00	27.50	199	315.1	Horizontal
2	13103.7523	16.10	23.35	39.45	54.00	14.55	200	344	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2031.6000	47.13	42.27	-4.86	74.00	31.73	200	248	Vertical
2	2501.4000	46.24	45.72	-0.52	74.00	28.28	100	288	Vertical
3	3948.0000	49.37	38.88	-10.49	74.00	35.12	100	35	Vertical
4	4881.0000	60.43	53.36	-7.07	74.00	20.64	200	302	Vertical
5	7321.5000	43.82	45.43	1.61	74.00	28.57	100	333	Vertical
6	14712.0000	35.24	53.05	17.81	74.00	20.95	100	269	Vertical

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4879.9400	-5.49	38.04	32.55	54.00	21.45	138	326.5	Vertical
2	14711.6892	17.81	23.56	41.37	54.00	12.63	100	269	Vertical

Mode: TX/ BLE_2M

Highest Frequency (2480MHz)

Environment: 21.7°C/49%RH/101.0kPa

Tested By: Chuang Li

Voltage:DC 7.3V

Date: 2025-02-14

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1903.4000	46.58	42.47	-4.11	74.00	31.53	200	18	Horizontal
2	2499.6000	46.33	46.15	-0.18	74.00	27.85	100	283	Horizontal
3	4959.0000	56.47	49.71	-6.76	74.00	24.29	200	286	Horizontal
4	6576.0000	45.18	43.84	-1.34	74.00	30.16	200	340	Horizontal
5	9238.5000	39.78	47.07	7.29	74.00	26.93	100	329	Horizontal
6	13107.0000	34.99	51.01	16.02	74.00	22.99	100	276	Horizontal

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4959.9330	-5.06	32.73	27.67	54.00	26.33	198	263.4	Horizontal
2	13106.7852	16.02	23.35	39.37	54.00	14.63	100	276	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2009.8000	47.27	42.47	-4.80	74.00	31.53	100	193	Vertical
2	2480.0000	46.88	45.98	-0.90	74.00	28.02	100	310	Vertical
3	4420.5000	49.18	40.05	-9.13	74.00	33.95	200	339	Vertical
4	4960.5000	59.09	52.11	-6.98	74.00	21.89	200	300	Vertical
5	7647.0000	43.09	44.65	1.56	74.00	29.35	100	156	Vertical
6	14697.0000	35.40	53.50	18.10	74.00	20.50	100	156	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4959.4945	-5.26	38.01	32.75	54.00	21.25	146	318.9	Vertical
2	14696.8500	18.10	23.79	41.89	54.00	12.11	100	156	Vertical

Note: For model DL-D06D, Pre-scan all test modes recorded the worst case BLE_2M 2402MHz test results in the report.

Mode: TX/ BLE_2M

Lowest Frequency (2402MHz)

Environment: 22.4°C/47%RH/101.0kPa

Tested By: Chuang Li

/
Voltage:DC 7.3V
Date: 2025-03-25

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1319.0000	52.43	44.35	-8.08	74.00	29.65	100	33	Horizontal
2	2132.8000	51.60	46.79	-4.81	74.00	27.21	200	240	Horizontal
3	4803.0000	57.97	50.43	-7.54	74.00	23.57	200	70	Horizontal
4	5759.0000	50.44	45.51	-4.93	74.00	28.49	200	26	Horizontal
5	6018.0000	50.56	46.48	-4.08	74.00	27.52	200	26	Horizontal
6	15683.0000	56.96	67.35	10.39	74.00	6.65	200	83	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4803.4170	-7.54	47.95	40.41	54.00	13.59	200	63.6	Horizontal
2	15701.6150	10.39	25.82	36.21	54.00	17.79	169	59.7	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1897.2000	52.09	47.45	-4.64	74.00	26.55	100	20	Vertical
2	2128.2000	52.03	47.23	-4.80	74.00	26.77	100	20	Vertical
3	4803.0000	59.12	52.08	-7.04	74.00	21.92	200	116	Vertical
4	5760.0000	54.20	49.35	-4.85	74.00	24.65	100	88	Vertical
5	6018.0000	58.45	54.66	-3.79	74.00	19.34	100	57	Vertical
6	15254.0000	54.22	67.93	13.71	74.00	6.07	200	312	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4803.4870	-7.04	52.28	45.24	54.00	8.76	147	122.1	Vertical
2	5760.0000	-4.85	51.82	46.97	54.00	7.03	118	70.3	Vertical
3	6018.0000	-3.79	47.65	43.86	54.00	10.14	101	49.7	Vertical
4	15261.2800	13.71	23.89	37.60	54.00	16.40	108	297.6	Vertical

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3 Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4 Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.