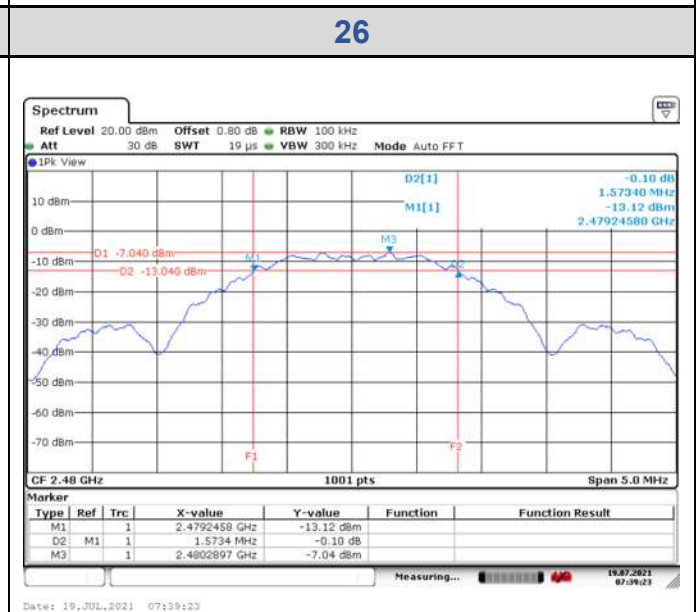
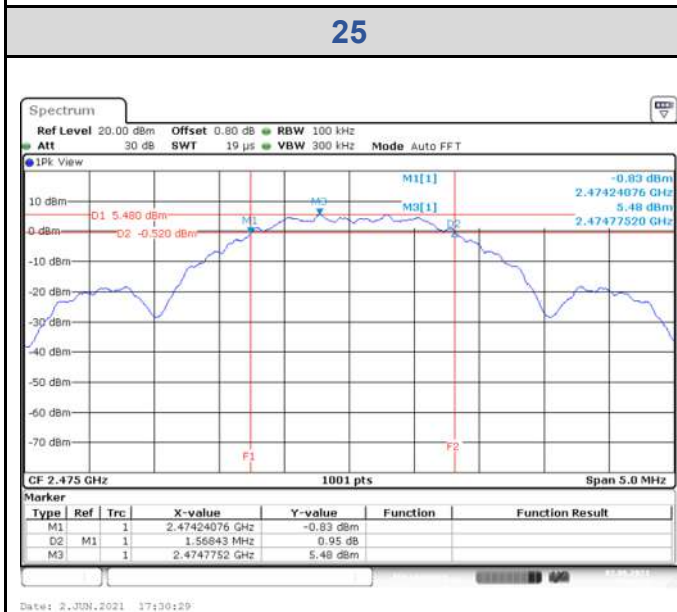
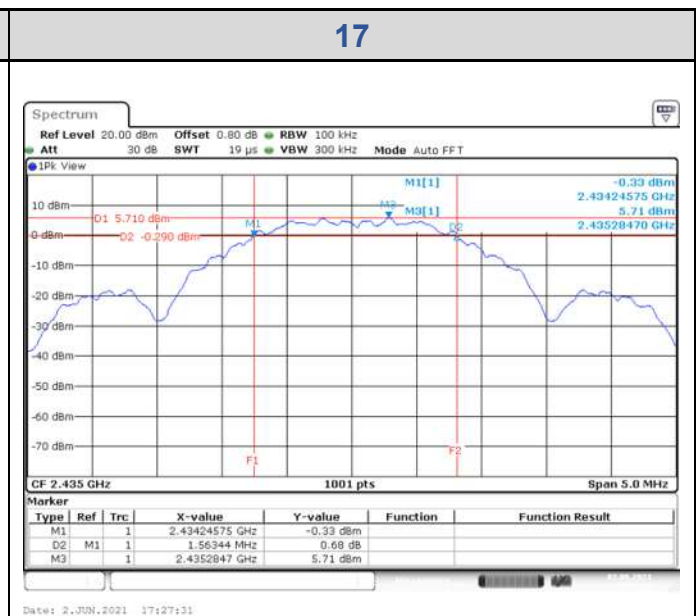
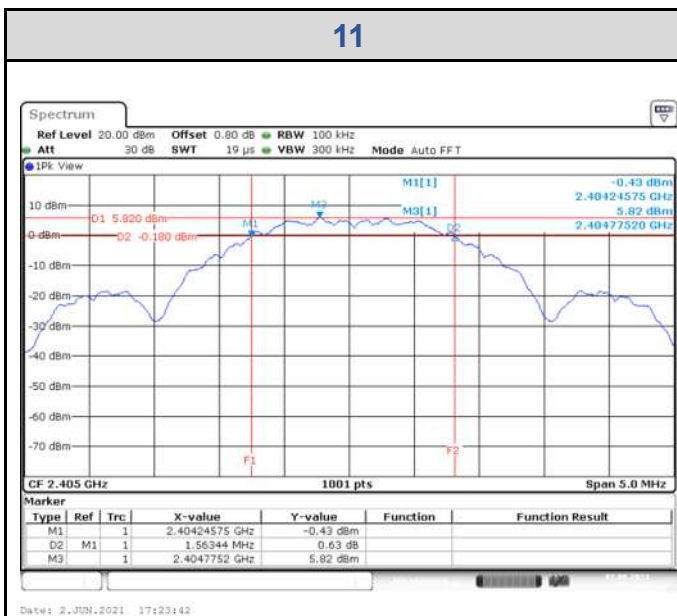


Appendix C: Test Results of Conducted Test_ZigBee

Test Result of 6 dB Bandwidth

ZIGBEE

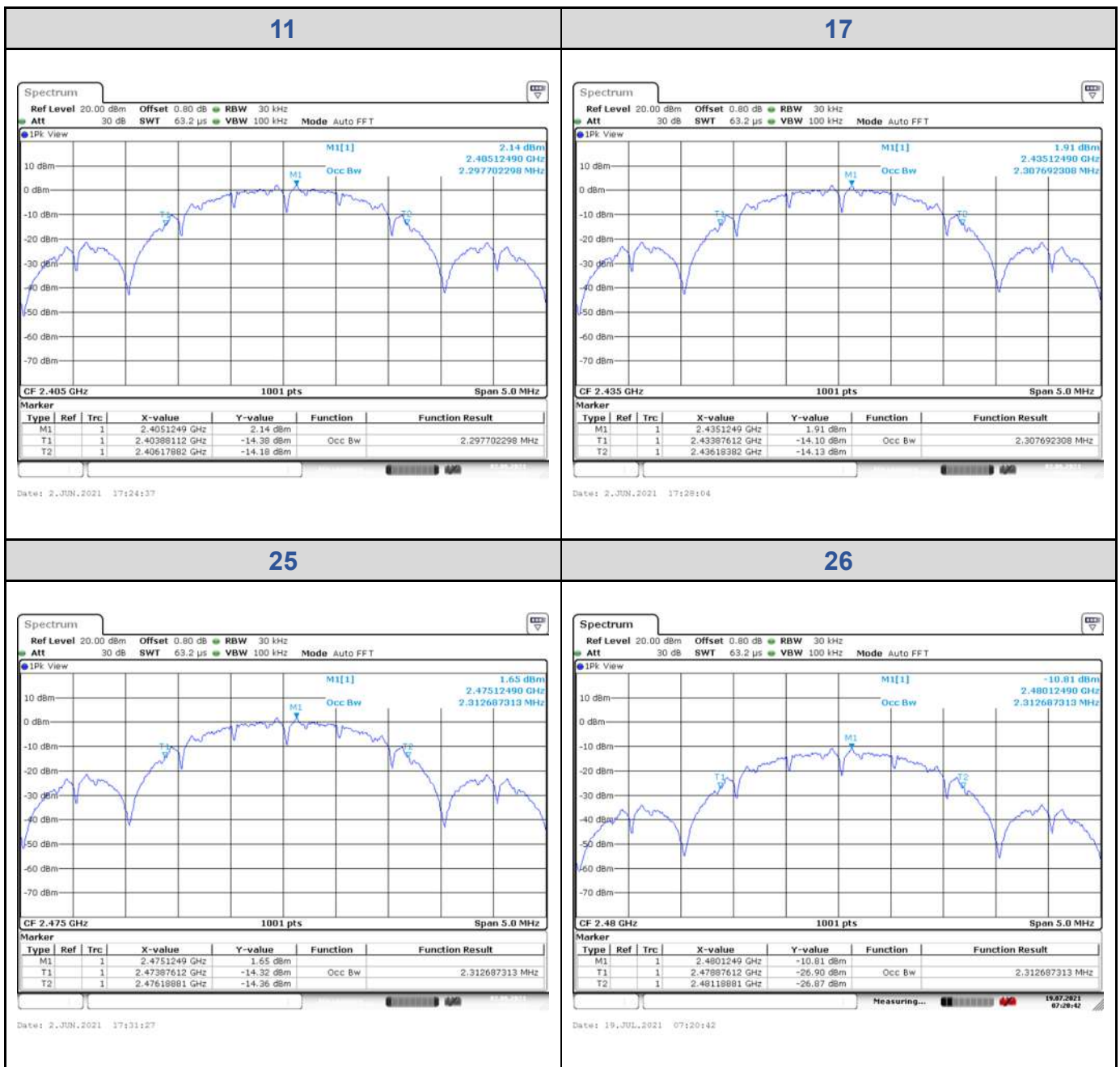
Channel	Channel Frequency (MHz)	6 dB Bandwidth (kHz)	Limit (kHz)	Result
11	2405	1563.44	> 500	Pass
17	2435	1563.44	> 500	Pass
25	2475	1568.43	> 500	Pass
26	2480	1573.4	> 500	Pass



Test Result of 99% Occupied Bandwidth

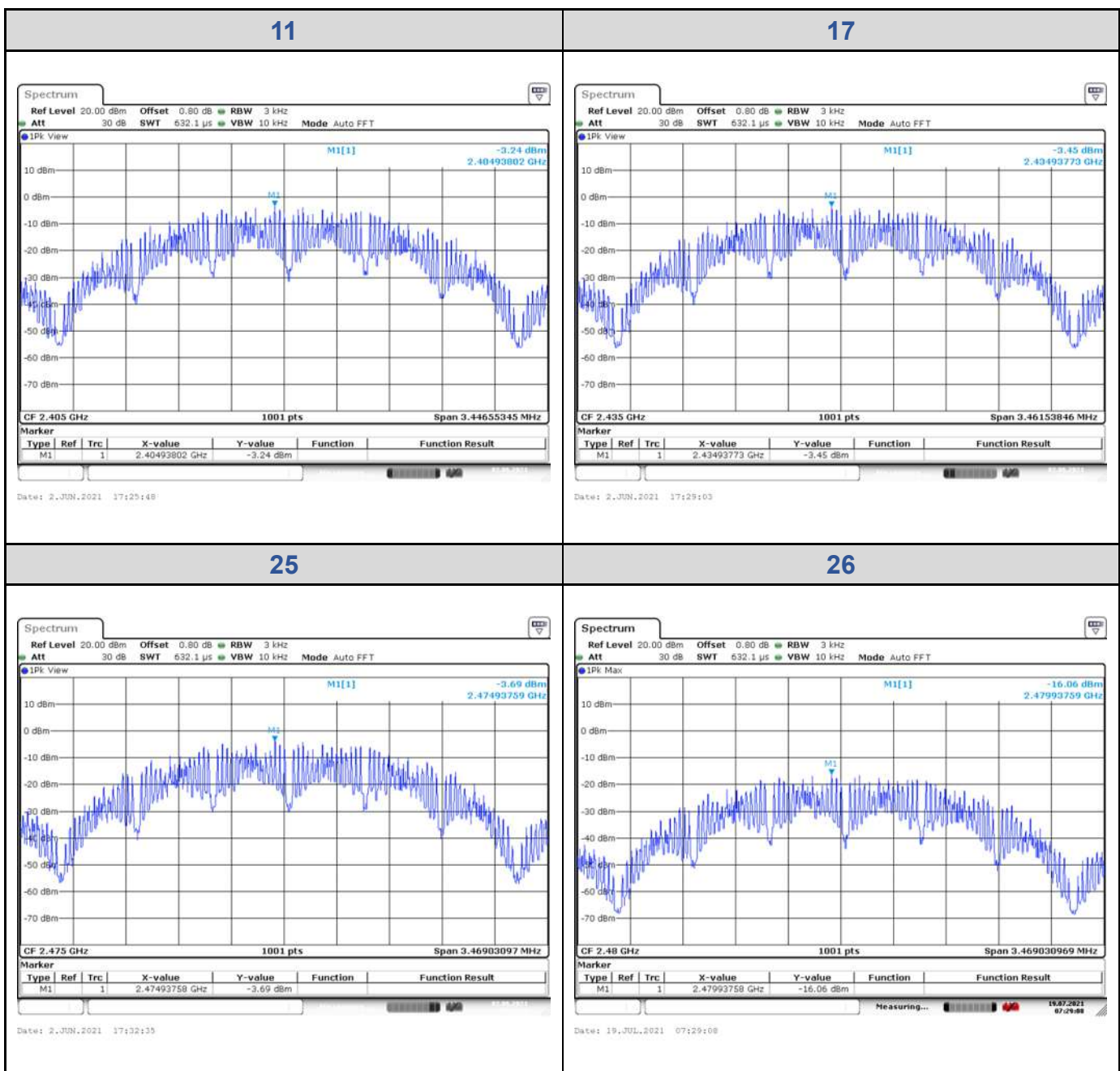
ZIGBEE

Channel	Channel Frequency (MHz)	99% Bandwidth (MHz)
11	2405	2.30
17	2435	2.31
25	2475	2.31
26	2480	2.31



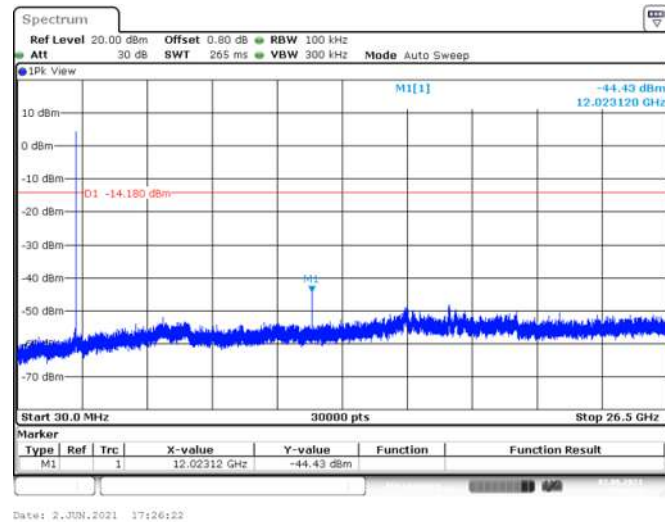
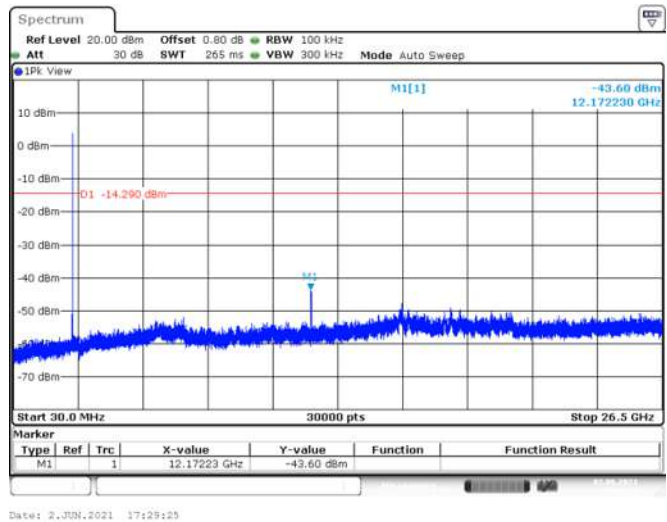
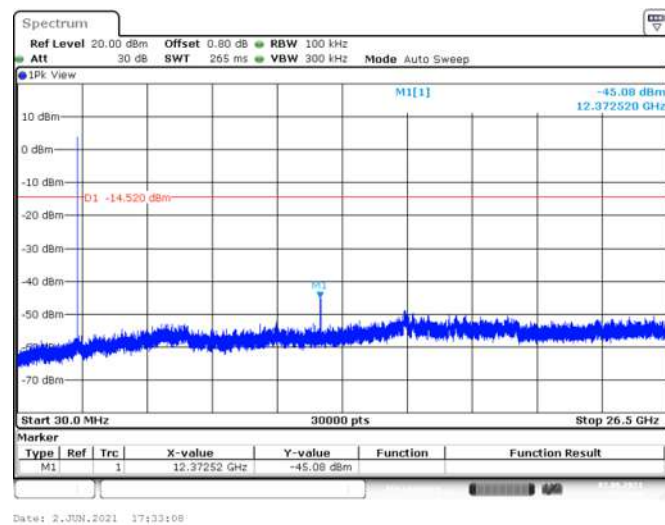
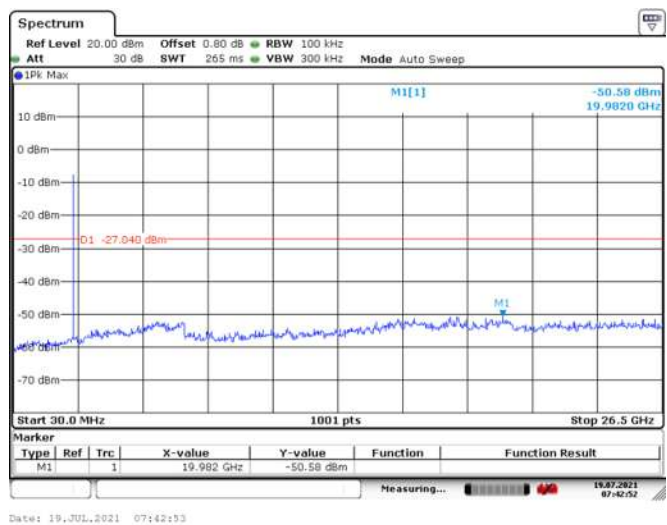
Test Result of Power Spectral Density ZIGBEE

Channel	Channel Frequency (MHz)	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
11	2405	-3.24	8	Pass
17	2435	-3.45	8	Pass
25	2475	-3.69	8	Pass
26	2480	-16.06	8	Pass



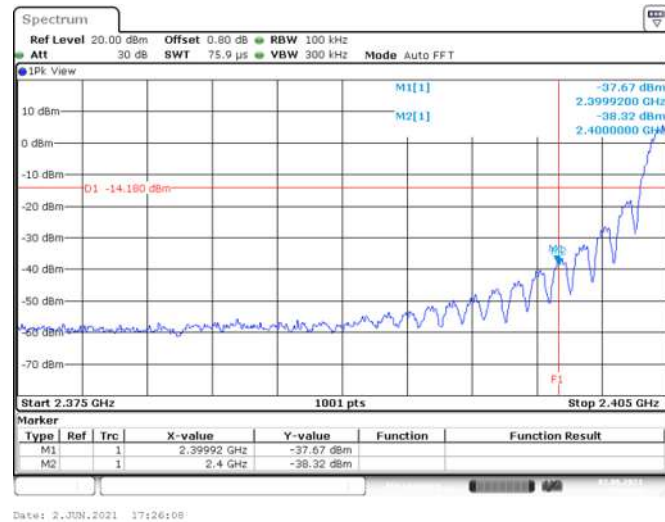
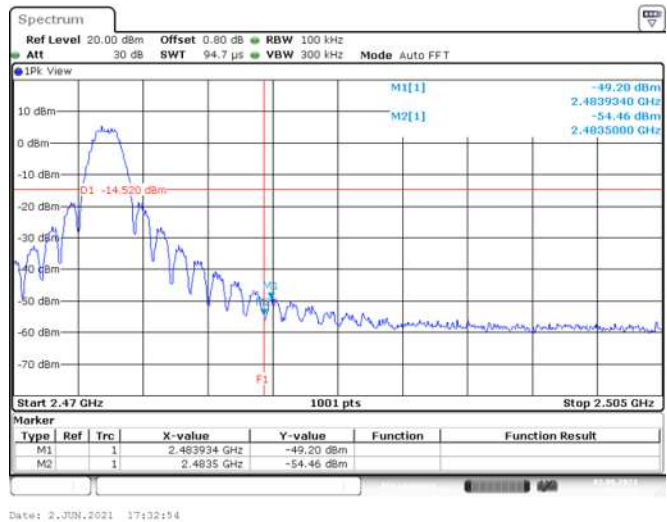
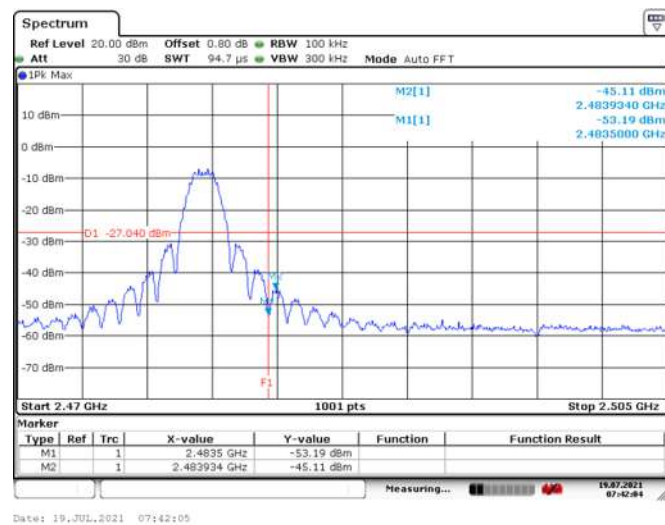
Test Result of Conducted Spurious Emissions, Tx Mode

ZIGBEE

11

17

25

26


Test Result of Conducted Band Edge, Tx Mode

ZIGBEE

11

25

26


Appendix D: Test Results of Radiated Emissions & Mains Conducted

Emission Test_ MSK32WT-M10

Band Edges, 2.31GHz ~ 2.9GHz

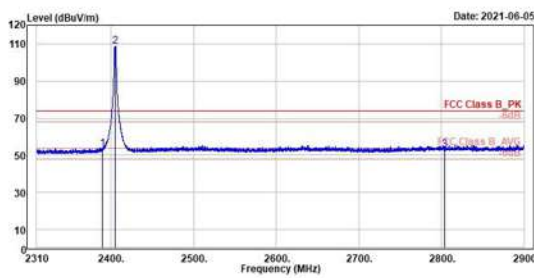
ZIGBEE

11 (Horizontal) Peak

11 (Vertical) Peak



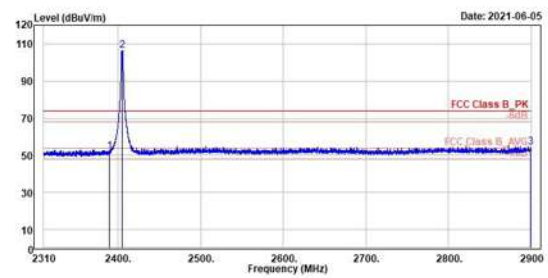
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2389.15	53.29	15.74	37.55	74.00	+20.71	242	174	Peak	Horizontal	
2 *	2485.00	188.76	71.09	37.67	74.00	34.76	242	174	Peak	Horizontal	
3	2803.89	52.95	14.64	38.31	74.00	-21.05	242	174	Peak	Horizontal	



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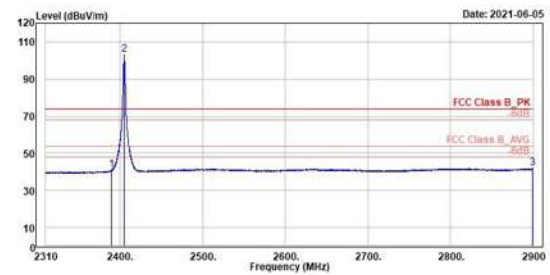
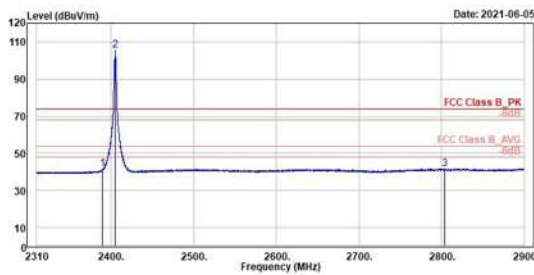


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2389.06	52.19	14.63	37.56	74.00	-21.81	340	146	Peak	Vertical	
2 *	2485.00	186.49	68.82	37.67	74.00	32.49	340	146	Peak	Vertical	
3	2899.29	54.11	15.49	38.62	74.00	-19.89	340	146	Peak	Vertical	

ZIGBEE

11 (Horizontal) Average

11 (Vertical) Average



Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2389.15	41.45	3.90	37.55	54.00	-12.55	242	174	Average	Horizontal	
2 *	2405.00	105.46	67.79	37.67	54.00	51.46	242	174	Average	Horizontal	
3	2803.89	41.73	3.42	38.31	54.00	-12.27	242	174	Average	Horizontal	

Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2389.86	40.92	3.36	37.56	54.00	-13.08	340	146	Average	Vertical	
2 *	2405.00	103.23	65.56	37.67	54.00	49.23	340	146	Average	Vertical	
3	2899.29	41.80	3.18	38.62	54.00	-12.20	340	146	Average	Vertical	

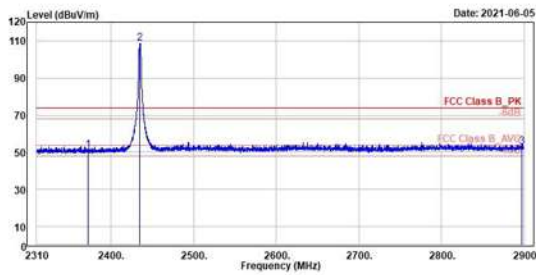
ZIGBEE

17 (Horizontal) Peak

17 (Vertical) Peak



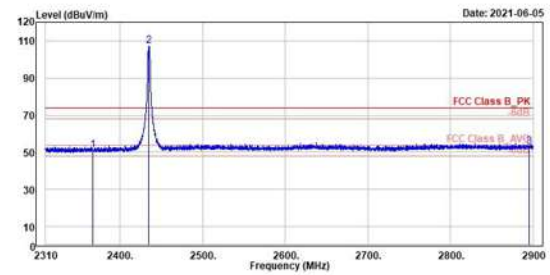
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Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2371.72	51.12	13.69	37.43	74.00	-22.88		335	181	Peak	Horizontal	
2 *	2435.00	100.53	79.65	37.88	74.00	34.53		335	181	Peak	Horizontal	
3	2897.29	53.05	14.44	38.61	74.00	-20.95		335	181	Peak	Horizontal	



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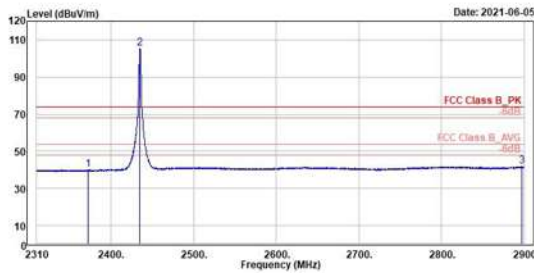


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2366.89	50.95	13.56	37.39	74.00	-23.05		333	147	Peak	Vertical	
2 *	2435.00	107.13	69.24	37.88	74.00	33.13		333	147	Peak	Vertical	
3	2895.29	52.73	14.13	38.60	74.00	-21.27		333	147	Peak	Vertical	

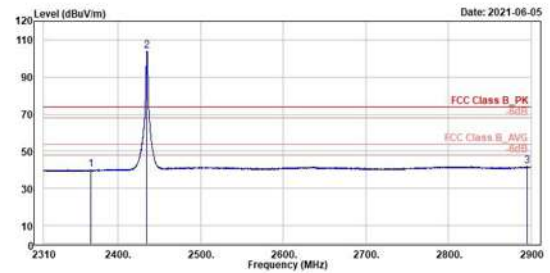
ZIGBEE

17 (Horizontal) Average

17 (Vertical) Average



Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2371.72	40.08	2.65	37.43	54.00	-13.92	335	181	Average	Horizontal	
2 *	2435.00	105.21	67.33	37.88	54.00	51.21	335	181	Average	Horizontal	
3	2897.29	41.86	3.25	38.61	54.00	-12.14	335	181	Average	Horizontal	

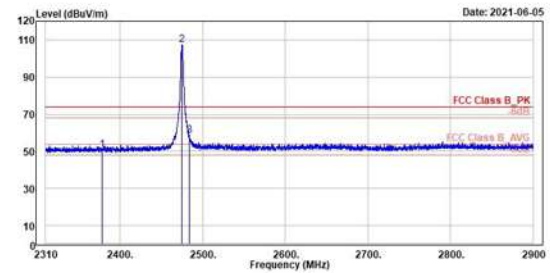
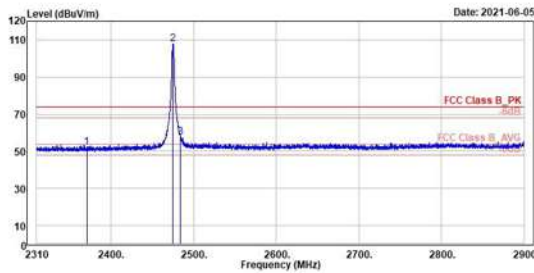


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2366.89	40.09	2.70	37.39	54.00	-13.91	333	147	Average	Vertical	
2 *	2435.00	103.95	66.07	37.88	54.00	49.95	333	147	Average	Vertical	
3	2895.29	41.84	3.24	38.60	54.00	-12.16	333	147	Average	Vertical	

ZIGBEE

25 (Horizontal) Peak

25 (Vertical) Peak



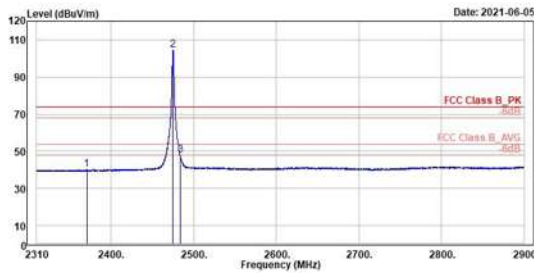
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2370.54	52.04	14.62	37.42	74.00	-21.96	292	181	Peak	Horizontal	
2 *	2475.00	107.83	69.71	38.12	74.00	33.83	292	181	Peak	Horizontal	
3	2483.97	57.54	19.37	38.17	74.00	-16.46	292	181	Peak	Horizontal	

Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2377.85	50.75	13.27	37.48	74.00	-23.25	258	170	Peak	Vertical	
2 *	2475.00	107.39	69.27	38.12	74.00	33.39	258	170	Peak	Vertical	
3	2483.86	58.34	20.17	38.17	74.00	-15.66	258	170	Peak	Vertical	

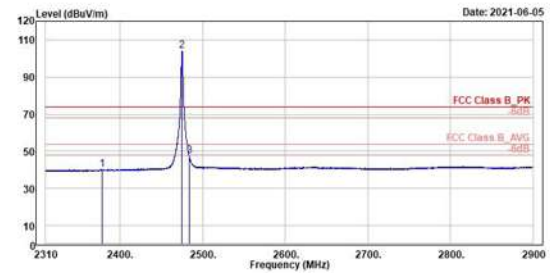
ZIGBEE

25 (Horizontal) Average

25 (Vertical) Average



Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2370.54	40.27	2.85	37.42	54.00	-13.73	292	181	Average	Horizontal	
2 *	2475.00	104.44	66.32	38.12	54.00	50.44	292	181	Average	Horizontal	
3	2483.97	47.77	9.68	38.17	54.00	-6.23	292	181	Average	Horizontal	

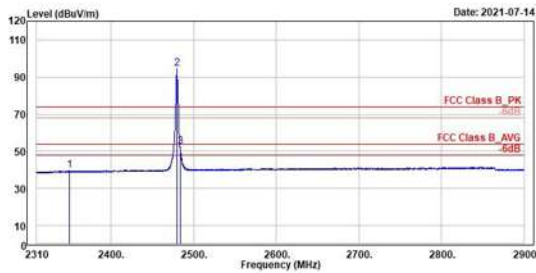


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2377.85	40.14	2.66	37.48	54.00	-13.86	258	170	Average	Vertical	
2 *	2475.00	103.97	65.85	38.12	54.00	49.97	258	170	Average	Vertical	
3	2483.86	47.45	9.28	38.17	54.00	-6.55	258	170	Average	Vertical	

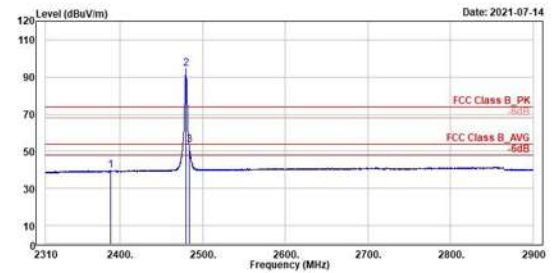
	Freq	Level	Read	Limit	Over	Apos	Tpos	Remark	Pol/Phase	Note
	Hz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2388.57	48.91	11.61	37.30	74.00	-25.09	329	175 Peak	Vertical	
2 *	2480.00	97.63	59.94	37.69	74.00	23.63	329	175 Peak	Vertical	
3	2481.62	64.88	27.17	37.71	74.00	-9.12	290	175 Peak	Vertical	

ZIGBEE

26 (Horizontal) Average



26 (Vertical) Average



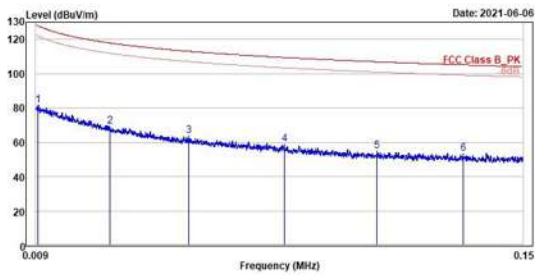
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

ZIGBEE

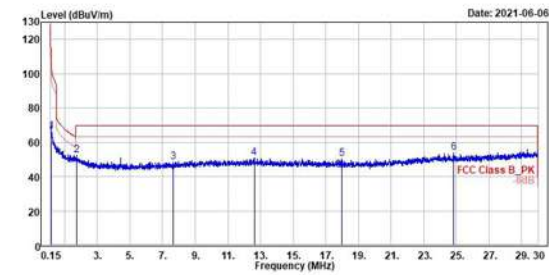
25 (Open) 9kHz~150kHz



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 Tel: +886-2172-1000 Fax: +886-2172-1322

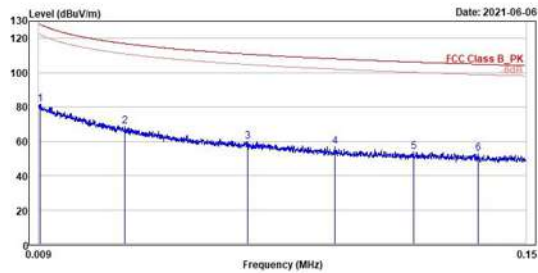


ZIGBEE

25 (Close) 9kHz~150kHz



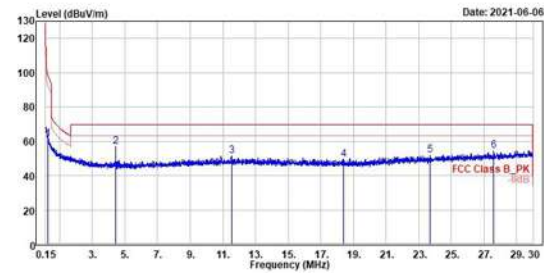
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.01	81.56	4.25	77.31	128.05	-46.49	100	88 QP	Close		
2	0.03	68.71	0.93	67.78	116.97	-48.26	100	358 QP	Close		
3	0.07	60.05	-1.25	61.30	110.77	-50.72	100	280 QP	Close		
4	0.09	56.94	-1.01	57.95	108.06	-51.12	100	292 QP	Close		
5	0.12	53.65	-2.06	56.51	106.20	-52.55	100	150 QP	Close		
6	0.14	52.97	-2.74	55.71	104.92	-51.95	100	0 QP	Close		



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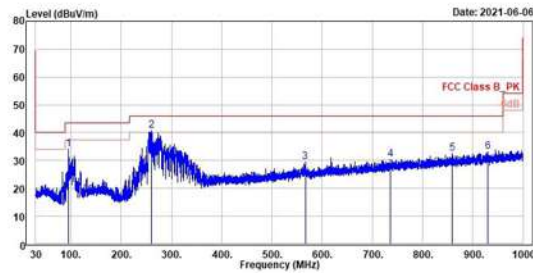
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.28	61.33	11.06	49.47	96.62	-37.29	100	360 QP	Close		
2	4.43	57.02	20.51	36.51	69.50	-12.48	100	129 QP	Close		
3	11.52	51.56	13.49	38.07	69.50	-17.94	100	268 QP	Close		
4	18.39	49.45	11.88	37.57	69.50	-20.05	100	151 QP	Close		
5	23.68	51.96	12.79	39.17	69.50	-17.54	100	33 QP	Close		
6	27.58	54.32	13.32	41.00	69.50	-15.18	100	0 QP	Close		

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

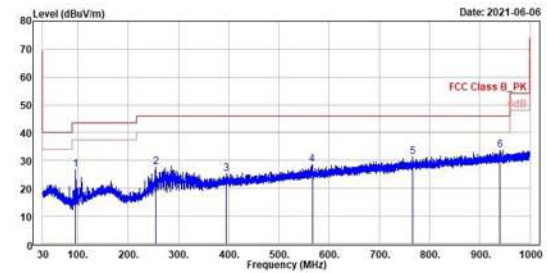
ZIGBEE

25 (Horizontal)

25 (Vertical)



	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	95.28	34.14	47.52	-13.38	43.50	-9.36	200	164	QP	Horizontal		
2	260.08	40.72	45.73	-8.01	46.00	-5.28	100	48	QP	Horizontal		
3	566.51	29.46	31.45	-1.99	46.00	-16.54	100	258	QP	Horizontal		
4	736.65	30.43	29.44	0.99	46.00	-15.57	200	242	QP	Horizontal		
5	859.74	32.46	29.64	2.82	46.00	-13.54	144	360	QP	Horizontal		
6	938.45	33.29	29.35	3.94	46.00	-12.71	400	46	QP	Horizontal		



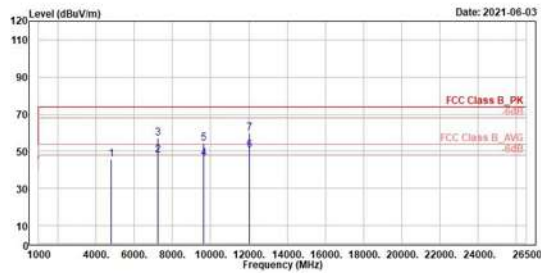
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	95.28	26.78	40.16	-13.38	43.50	-16.72	200	252	QP	Vertical		
2	254.75	27.62	35.68	-8.06	46.00	-18.38	200	299	QP	Vertical		
3	395.88	25.15	29.35	-4.20	46.00	-20.85	100	80	QP	Vertical		
4	566.51	28.45	30.44	-1.99	46.00	-17.55	300	228	QP	Vertical		
5	766.33	31.36	29.09	1.47	46.00	-14.64	200	301	QP	Vertical		
6	948.64	33.85	29.68	4.17	46.00	-12.15	100	24	QP	Vertical		

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

ZIGBEE

11 (Horizontal)

11 (Vertical)



	Freq	Level	Rad Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4810.00	45.49	55.26	-9.77	74.00	-28.51	400	48 Peak	Horizontal	
2	7215.00	47.49	55.15	-7.26	85.46	-37.57	285	22 Average	Horizontal	
3	7615.00	57.05	64.31	-7.26	88.76	-31.71	285	22 Peak	Horizontal	
4	9226.00	45.89	58.79	-4.00	86.46	-39.57	371	250 Average	Horizontal	
5	9630.00	54.37	59.24	-4.80	88.76	-34.39	250	250 Peak	Horizontal	
6	12825.00	59.59	50.80	-0.21	54.00	-3.41	102	275 Average	Horizontal	
7	12825.00	59.83	60.84	-0.21	74.00	-14.17	102	275 Peak	Horizontal	

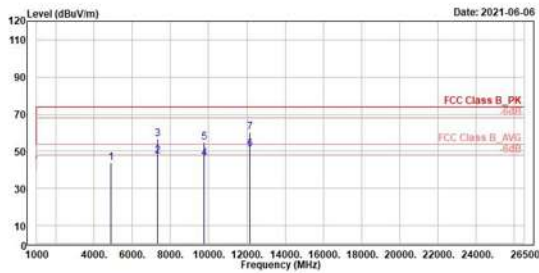
ZIGBEE

17 (Horizontal)

17 (Vertical)



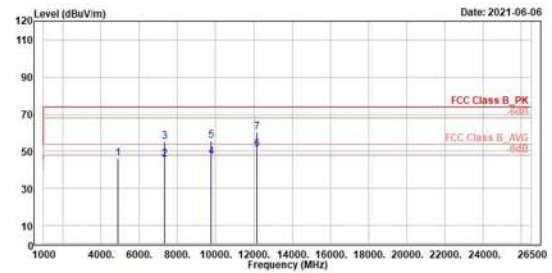
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4870.00	44.03	53.71	-9.68	74.00	-29.97	180	50	Peak	Horizontal	
2	7305.00	47.36	54.68	-7.24	54.00	-6.64	311	27	Average	Horizontal	
3	7305.00	56.37	63.61	-7.24	74.00	-17.63	311	27	Peak	Horizontal	
4	9740.00	46.18	50.81	-4.63	85.21	-39.03	360	360	Average	Horizontal	
5	9740.00	54.72	59.35	-4.63	88.53	-33.81	360	360	Peak	Horizontal	
6	12175.00	51.05	51.02	0.03	54.00	-2.95	399	191	Average	Horizontal	
7	12175.00	60.19	60.16	0.03	74.00	-13.81	399	191	Peak	Horizontal	



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Tel: +886-2172-1000 Fax: +886-2172-1322

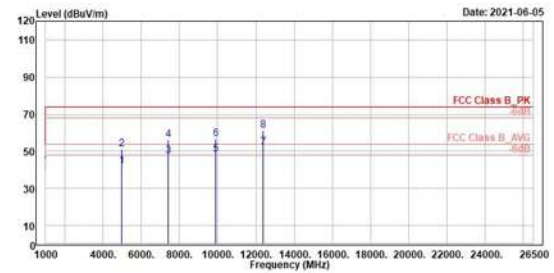
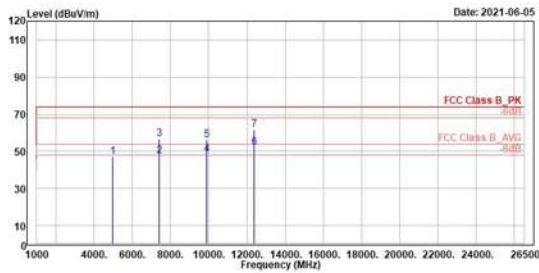


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4870.00	46.29	55.07	-9.68	74.00	-27.71	400	266	Peak	Vertical	
2	7305.00	45.77	53.01	-7.24	54.00	-8.23	300	334	Average	Vertical	
3	7305.00	55.26	62.50	-7.24	74.00	-18.74	300	334	Peak	Vertical	
4	9740.00	47.02	51.65	-4.63	83.95	-36.93	100	307	Average	Vertical	
5	9740.00	55.73	60.36	-4.63	87.12	-31.39	100	307	Peak	Vertical	
6	12175.00	51.10	51.07	0.03	54.00	-2.90	221	16	Average	Vertical	
7	12175.00	60.18	60.15	0.03	74.00	-13.82	221	16	Peak	Vertical	

ZIGBEE

25 (Horizontal)

25 (Vertical)



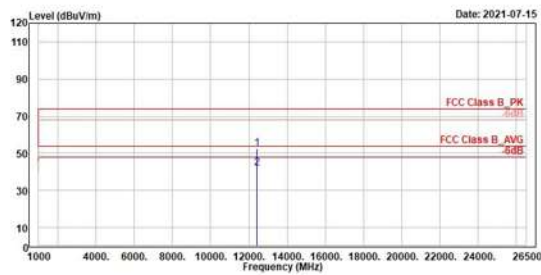
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4950.00	47.11	56.58	-9.47	74.00	-26.89	180	294	Peak	Horizontal	
2	7425.00	47.65	54.93	-7.28	54.00	-6.35	290	28	Average	Horizontal	
3	7425.00	56.65	63.93	-7.28	74.00	-17.35	290	28	Peak	Horizontal	
4	9900.00	48.47	52.87	-4.40	84.44	-35.97	200	252	Average	Horizontal	
5	9900.00	56.03	60.43	-4.40	87.83	-31.80	200	252	Peak	Horizontal	
6	12375.00	52.15	51.93	0.22	54.00	-1.85	380	14	Average	Horizontal	
7	12375.00	61.42	61.20	0.22	74.00	-12.58	380	14	Peak	Horizontal	

Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4950.00	42.12	51.59	-9.47	54.00	-11.88	400	263	Average	Vertical	
2	4950.00	51.04	60.51	-9.47	74.00	-22.96	400	263	Peak	Vertical	
3	7425.00	47.26	54.54	-7.28	54.00	-6.74	392	333	Average	Vertical	
4	7425.00	56.28	63.56	-7.28	74.00	-17.72	392	333	Peak	Vertical	
5	9900.00	48.28	52.68	-4.40	84.44	-36.16	102	305	Average	Vertical	
6	9900.00	56.71	61.11	-4.40	87.39	-30.68	102	305	Peak	Vertical	
7	12375.00	52.11	51.89	0.22	54.00	-1.89	100	359	Average	Vertical	
8	12375.00	61.30	61.08	0.22	74.00	-12.70	100	359	Peak	Vertical	

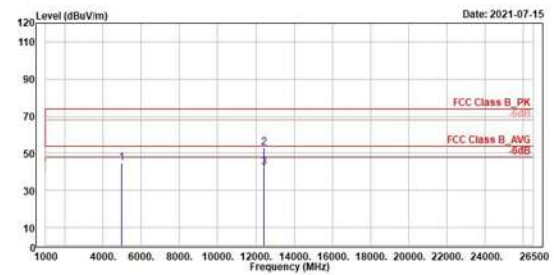
ZIGBEE

26 (Horizontal)

26 (Vertical)



Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	12400.00	52.37	51.29	1.08	74.00	-21.63	480	114	Peak	Horizontal	
2	12400.00	42.05	40.97	1.08	54.00	-11.95	480	114	Average	Horizontal	



Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4960.00	44.75	54.02	-9.27	74.00	-29.25	380	92	Peak	Vertical	
2	12400.00	52.93	51.85	1.08	74.00	-21.07	215	10	Peak	Vertical	
3	12400.00	42.47	41.39	1.08	54.00	-11.53	215	10	Average	Vertical	

Mains Conducted Emission, 150kHz ~ 30MHz

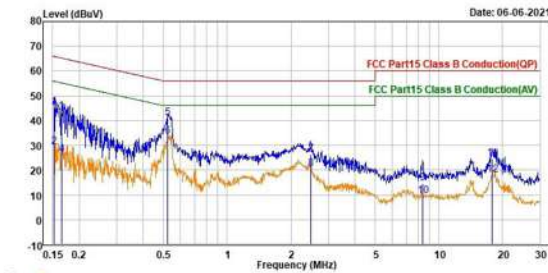
Worst Band

(Line)

(Neutral)



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Tel:+886-2172-1000 Fax:+886-2172-1322

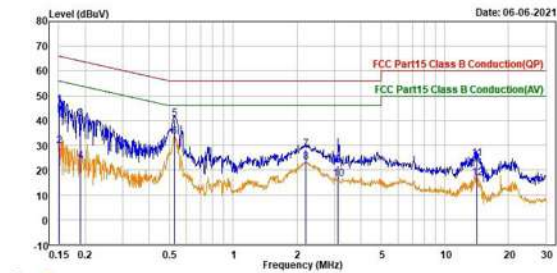


Trace: 1

	Read			Limit	Over			
Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase	Note
MHz	dBuV	dB	dBuV	dBuV	dB			
1	0.152	35.94	9.66	45.60	65.92	-20.32 QP	line1	
2	0.152	19.82	9.66	29.48	55.92	-26.44 Average	line1	
3	0.166	33.37	9.66	43.03	65.17	-22.14 QP	line1	
4	0.166	16.66	9.66	26.32	55.17	-28.85 Average	line1	
5	0.524	31.20	9.65	40.85	56.00	-15.15 QP	line1	
6	0.524	23.80	9.65	33.45	46.00	-12.55 Average	line1	
7	2.482	16.69	9.68	26.37	56.00	-29.63 QP	line1	
8	2.482	10.83	9.68	20.51	46.00	-25.49 Average	line1	
9	8.375	4.86	9.74	14.60	60.00	-45.40 QP	line1	
10	8.375	-0.32	9.74	9.42	50.00	-40.58 Average	line1	
11	17.776	14.72	9.75	24.47	60.00	-35.53 QP	line1	
12	17.776	8.43	9.75	18.18	50.00	-31.82 Average	line1	



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Tel:+886-2172-1000 Fax:+886-2172-1322



Trace: 1

	Read			Limit	Over			
Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase	Note
MHz	dBuV	dB	dBuV	dBuV	dB			
1	0.151	36.36	9.68	46.04	65.96	-19.92 QP	neutral	
2	0.151	19.94	9.68	29.62	55.96	-26.34 Average	neutral	
3	0.190	30.91	9.67	40.58	64.05	-23.47 QP	neutral	
4	0.190	13.98	9.67	23.65	54.05	-30.40 Average	neutral	
5	0.527	30.86	9.66	40.52	56.00	-15.48 QP	neutral	
6	0.527	23.70	9.66	33.36	46.00	-12.64 Average	neutral	
7	2.202	18.56	9.70	28.26	56.00	-27.74 QP	neutral	
8	2.202	13.42	9.70	23.12	46.00	-22.88 Average	neutral	
9	3.137	12.22	9.71	21.93	56.00	-34.07 QP	neutral	
10	3.137	6.55	9.71	16.26	46.00	-29.74 Average	neutral	
11	14.134	14.69	9.82	24.51	60.00	-35.49 QP	neutral	
12	14.134	6.92	9.82	16.74	50.00	-33.26 Average	neutral	

Test Results of Radiated Emissions & Mains Conducted Emission

Test_MS K32WT-M13

Band Edges, 2.31GHz ~ 2.9GHz

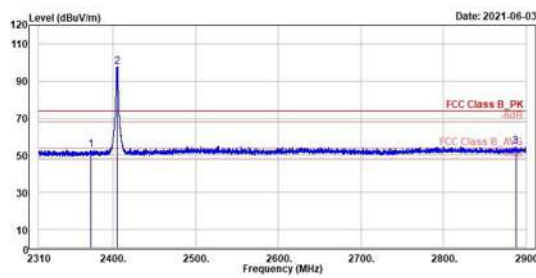
ZIGBEE

11 (Horizontal) Peak

11 (Vertical) Peak



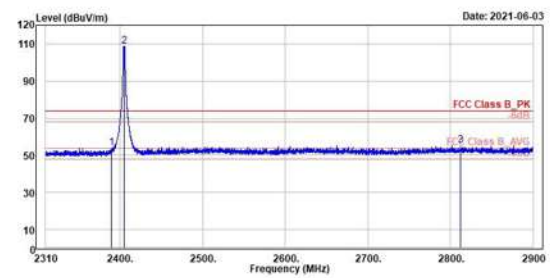
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Tel: +886-2172-1000 Fax: +886-2172-1322



Freq	Level	Read	Level Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2372.78	53.07	15.63	37.44	74.00	+20.93	303	128 Peak	Horizontal	
2 *	2485.00	97.62	59.95	37.67	74.00	23.62	303	128 Peak	Horizontal	
3	2887.73	54.91	16.35	38.56	74.00	-19.09	303	128 Peak	Horizontal	



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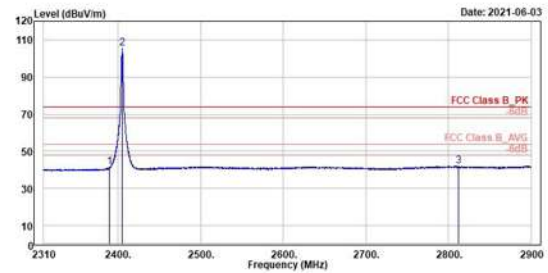
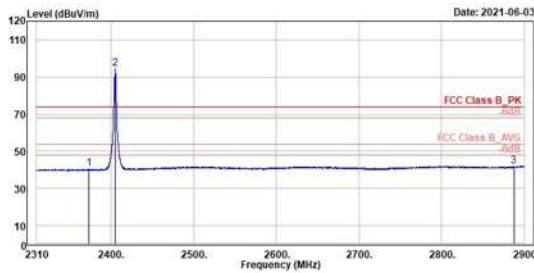


Freq	Level	Read	Level Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2390.00	53.68	16.12	37.56	74.00	-20.32	105	297 Peak	Vertical	
2 *	2485.00	100.60	70.93	37.67	74.00	26.60	105	297 Peak	Vertical	
3	2811.85	55.43	17.11	38.32	74.00	-18.57	105	297 Peak	Vertical	

ZIGBEE

11 (Horizontal) Average

11 (Vertical) Average



Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2372.78	40.46	3.02	37.44	54.00	-13.54	303	128	Average	Horizontal	
2 *	2405.00	94.41	56.74	37.67	54.00	40.41	303	128	Average	Horizontal	
3	2887.73	41.91	3.35	38.56	54.00	-12.09	303	128	Average	Horizontal	

Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2390.00	41.44	3.68	37.76	54.00	-12.56	105	297	Average	Vertical	
2 *	2405.00	105.39	67.72	37.67	54.00	51.39	105	297	Average	Vertical	
3	2811.85	41.99	3.67	38.32	54.00	-12.01	105	297	Average	Vertical	

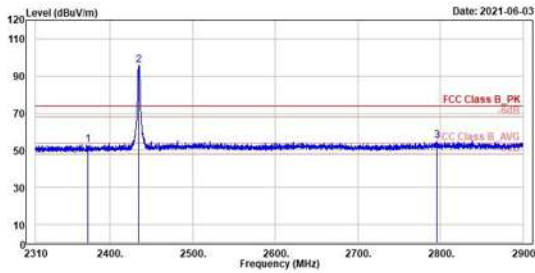
ZIGBEE

17 (Horizontal) Peak

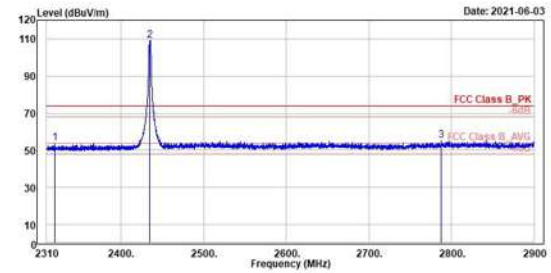
17 (Vertical) Peak



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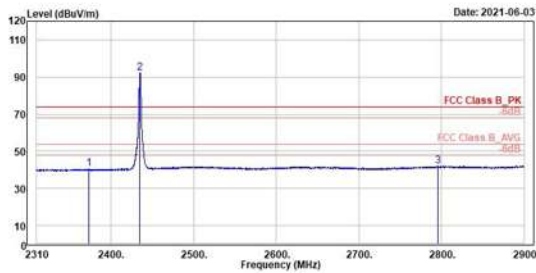
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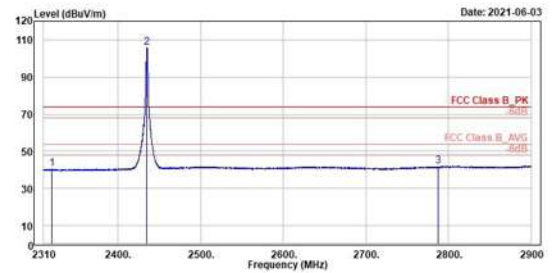
ZIGBEE

17 (Horizontal) Average

17 (Vertical) Average



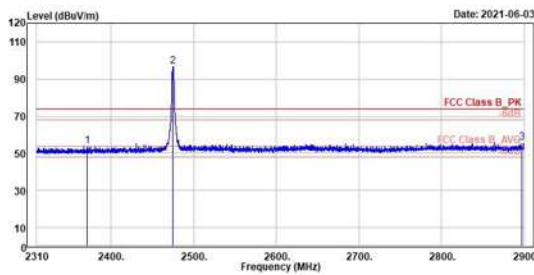
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2373.69	40.38	2.94	37.44	54.00	-13.62	100	291	Average	Horizontal	
2 *	2435.00	92.31	54.43	37.88	54.00	38.31	100	291	Average	Horizontal	
3	2795.45	41.95	3.66	38.29	54.00	-12.05	100	291	Average	Horizontal	



Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2320.03	40.48	3.38	37.10	54.00	-13.52	126	255	Average	Vertical	
2 *	2435.00	105.69	67.81	37.88	54.00	51.69	126	255	Average	Vertical	
3	2787.90	41.96	3.69	38.27	54.00	-12.04	126	255	Average	Vertical	

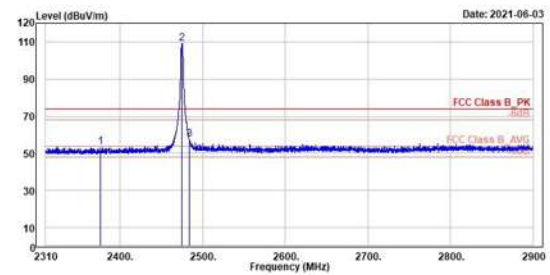
ZIGBEE

25 (Horizontal) Peak



Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2371.24	53.92	16.49	37.43	74.00	-20.08	400	290	Peak	Horizontal	
2 *	2475.00	96.66	50.54	38.12	74.00	22.66	400	290	Peak	Horizontal	
3	2897.29	55.54	16.93	38.61	74.00	-18.46	400	290	Peak	Horizontal	

25 (Vertical) Peak

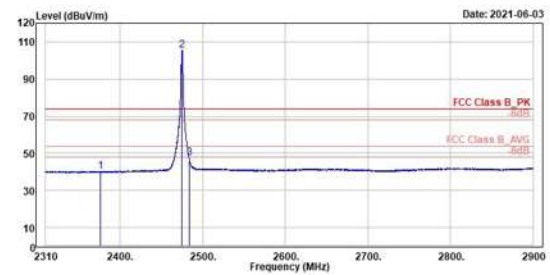
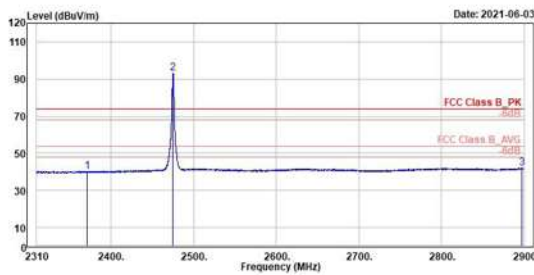


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2376.67	53.31	15.85	37.46	74.00	-20.69	123	267	Peak	Vertical	
2 *	2475.00	100.93	79.81	38.12	74.00	34.93	123	267	Peak	Vertical	
3	2483.50	57.52	19.36	38.16	74.00	-16.48	123	267	Peak	Vertical	

ZIGBEE

25 (Horizontal) Average

25 (Vertical) Average



Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2371.24	40.33	2.90	37.43	54.00	-13.67	400	290	Average	Horizontal	
2 *	2475.00	92.88	54.76	38.12	54.00	38.88	400	290	Average	Horizontal	
3	2897.29	41.96	3.35	38.61	54.00	-12.04	400	290	Average	Horizontal	

Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2376.67	40.30	2.84	37.46	54.00	-13.70	123	267	Average	Vertical	
2 *	2475.00	105.60	67.48	38.12	54.00	51.60	123	267	Average	Vertical	
3	2483.50	47.30	9.14	38.16	54.00	-6.70	123	267	Average	Vertical	

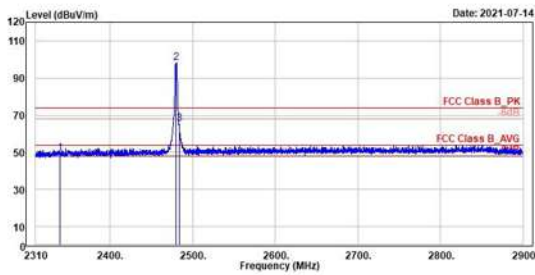
ZIGBEE

26 (Horizontal) Peak

26 (Vertical) Peak



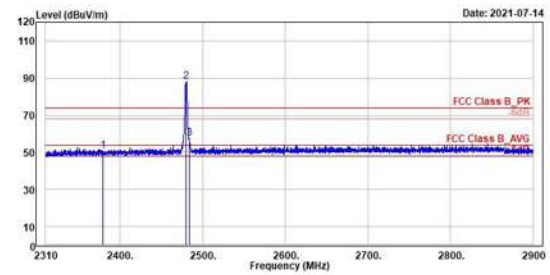
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Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2339.09	49.19	12.02	37.17	74.00	-24.81	100	285 Peak	Vertical	
2 *	2480.00	98.25	60.56	37.69	74.00	24.25	100	285 Peak	Vertical	
3	2483.50	65.19	27.48	37.71	74.00	-8.81	100	285 Peak	Vertical	



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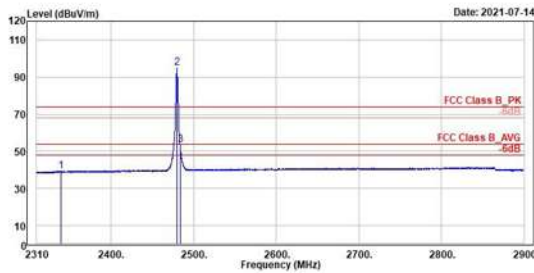


	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2379.02	50.49	13.20	37.29	74.00	-23.51	289	159 Peak	Horizontal	
2 *	2480.00	87.86	50.17	37.69	74.00	13.86	289	159 Peak	Horizontal	
3	2483.50	57.36	19.65	37.71	74.00	-16.64	289	159 Peak	Horizontal	

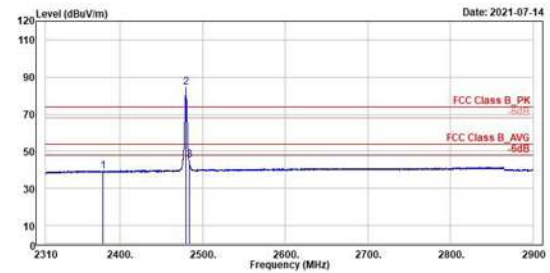
ZIGBEE

26 (Horizontal) Average

26 (Vertical) Average



	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2339.09	39.35	2.18	37.17	54.00	-14.65	100	285	Average	Vertical		
2 *	2480.00	94.88	57.19	37.69	54.00	40.88	100	285	Average	Vertical		
3 †	2483.50	53.50	15.79	37.71	54.00	-0.50	100	285	Average	Vertical		

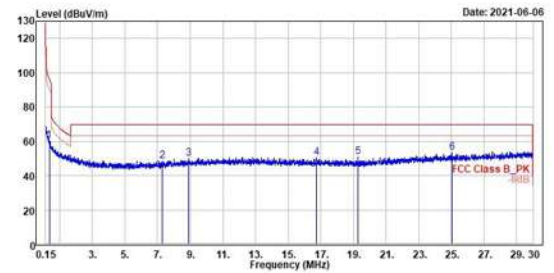
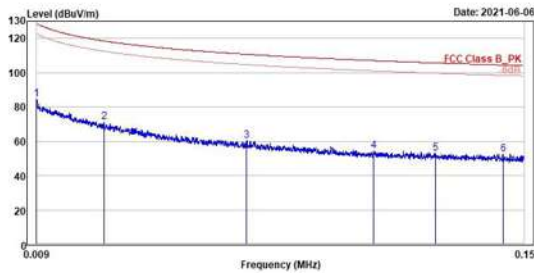


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2379.02	39.46	2.17	37.29	54.00	-14.54	289	159	Average	Horizontal		
2 *	2480.00	94.44	46.75	37.69	54.00	39.44	289	159	Average	Horizontal		
3	2483.50	45.24	7.53	37.71	54.00	-8.76	289	159	Average	Horizontal		

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

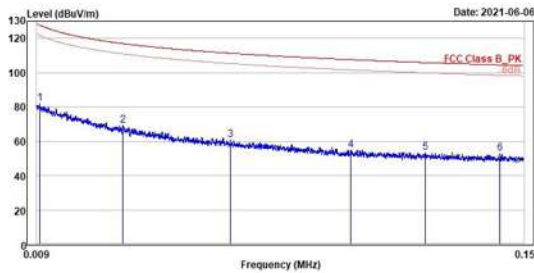
ZIGBEE

25 (Open) 9kHz~150kHz



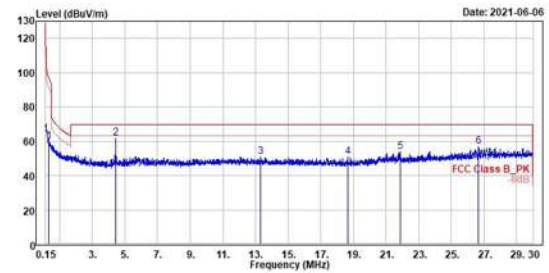
ZIGBEE

25 (Close) 9kHz~150kHz



Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.01	82.14	5.20	76.94	127.74	-45.60	100	21 QP	Close
2	0.03	69.10	1.33	67.77	116.97	-47.87	100	104 QP	Close
3	0.07	60.97	-0.89	61.86	111.32	-50.35	100	325 QP	Close
4	0.10	55.04	-2.23	57.27	107.61	-52.57	100	14 QP	Close
5	0.12	53.20	-3.13	56.33	105.90	-52.70	100	112 QP	Close
6	0.14	52.70	-2.71	55.41	104.49	-51.79	100	222 QP	Close

25 (Close) 150kHz~30MHz



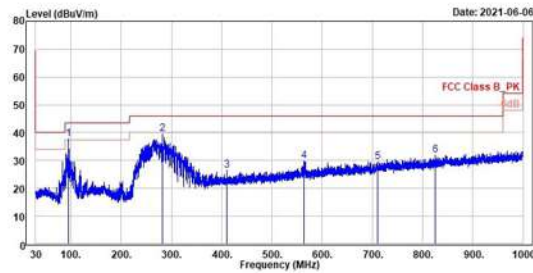
Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.35	59.79	12.09	47.70	96.65	-36.86	100	171 QP	Close
2	4.43	61.95	25.44	36.51	69.50	-7.55	100	84 QP	Close
3	13.33	50.70	12.77	37.93	69.50	-18.80	100	289 QP	Close
4	18.64	50.71	13.16	37.55	69.50	-18.79	100	138 QP	Close
5	21.86	53.70	15.38	38.32	69.50	-15.80	100	115 QP	Close
6	26.64	56.99	16.44	40.55	69.50	-12.51	100	106 QP	Close

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

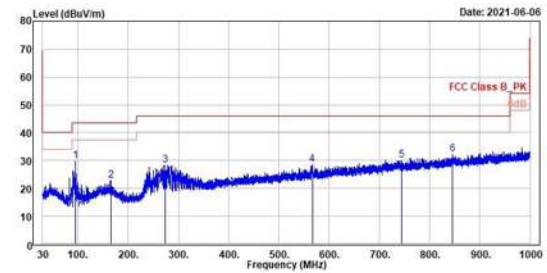
ZIGBEE

25 (Horizontal)

25 (Vertical)



	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	95.18	37.63	51.02	-13.39	43.50	-5.87	200	158	QP	Horizontal		
2	282.28	39.55	46.44	-6.89	46.00	-6.45	100	295	QP	Horizontal		
3	411.11	26.32	30.56	-4.24	46.00	-19.68	300	251	QP	Horizontal		
4	564.76	29.90	31.91	-2.01	46.00	-16.10	200	267	QP	Horizontal		
5	709.97	29.68	29.28	0.40	46.00	-16.40	200	321	QP	Horizontal		
6	824.72	31.93	29.78	2.23	46.00	-14.07	166	360	QP	Horizontal		



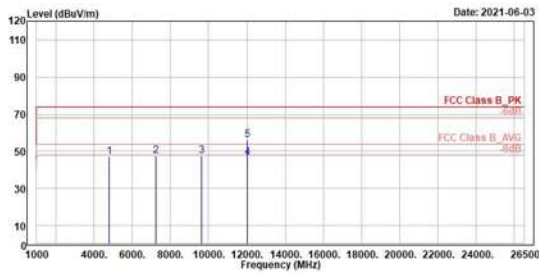
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	95.28	29.78	43.08	-13.30	43.50	-13.80	200	249	QP	Vertical		
2	166.09	22.88	28.86	-6.98	43.50	-20.62	100	349	QP	Vertical		
3	273.57	28.30	35.53	-7.23	46.00	-17.70	100	250	QP	Vertical		
4	566.51	28.66	30.65	-1.99	46.00	-17.34	300	226	QP	Vertical		
5	744.11	30.17	29.02	1.15	46.00	-15.83	152	360	QP	Vertical		
6	846.26	32.19	29.64	2.55	46.00	-13.81	100	149	QP	Vertical		

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

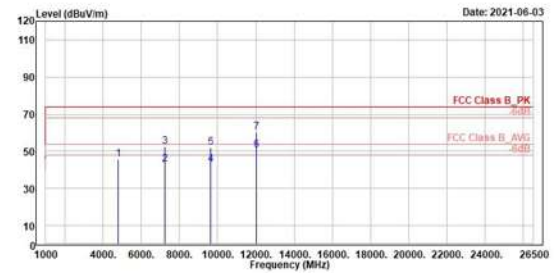
ZIGBEE

11 (Horizontal)

11 (Vertical)



1	2	3	4	5
Freq	Level	Read	Level	Factor
MHz	dBuV/m	dBuV	dB/m	dBuV/m
1	4810.00	46.85	56.62	-9.77
2	7215.00	47.40	54.66	-7.26
3	9620.00	47.64	52.54	-4.90
4	12025.00	46.56	46.77	-0.21
5	12025.00	56.14	56.35	-0.21
Limit	Over	Line	Limit	
dB	cm	deg		
230	40	Peak	Horizontal	
480	31	Peak	Horizontal	
300	274	Peak	Horizontal	
114	67	Average	Horizontal	
114	67	Peak	Horizontal	



	Freq	Level	Read Level	Factor	Limit Over	Line Limit	AP05	TP05	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4810.00	45.72	55.49	-9.77	74.00	-28.28	300	266	Peak	Vertical	
2	7215.00	42.71	49.97	-7.26	85.39	-42.68	302	0	Average	Vertical	
3	7215.00	52.26	59.52	-7.26	88.39	-36.34	302	0	Peak	Vertical	
4	9620.00	42.85	47.75	-4.90	85.39	-42.54	315	360	Average	Vertical	
5	9620.00	51.88	56.78	-4.90	88.39	-36.72	315	360	Peak	Vertical	
6	12025.00	50.60	50.81	-0.21	54.00	-3.40	182	94	Average	Vertical	
7	12025.00	60.01	60.22	-0.21	74.00	-13.99	182	94	Peak	Vertical	

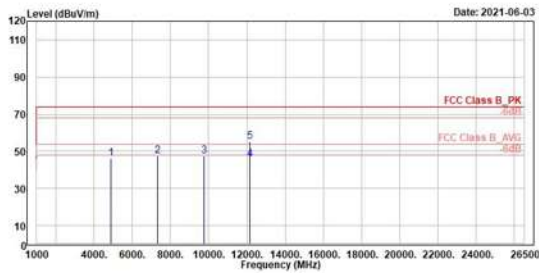
ZIGBEE

17 (Horizontal)

17 (Vertical)



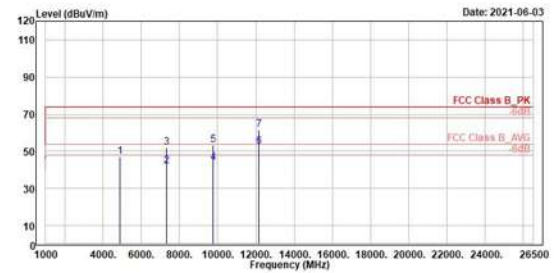
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Tel: +886-2172-1000 Fax: +886-2172-1322



Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4870.00	46.23	55.91	-9.68	74.00	-27.77	180	45	Peak	Horizontal	
2	7305.00	47.44	54.68	-7.24	74.00	-26.56	480	31	Peak	Horizontal	
3	9740.00	47.26	51.89	-4.63	75.65	-28.39	480	261	Peak	Horizontal	
4	12175.00	45.51	45.48	0.03	54.00	-8.49	110	71	Average	Horizontal	
5	12175.00	55.13	55.10	0.03	74.00	-18.87	110	71	Peak	Horizontal	



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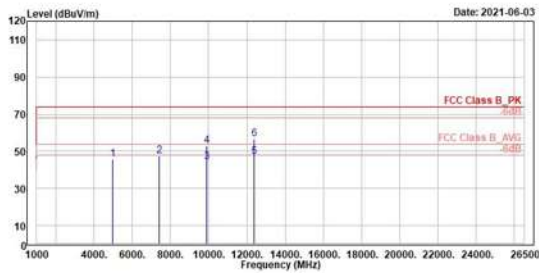


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4870.00	47.09	56.77	-9.68	74.00	-26.91	180	109	Peak	Vertical	
2	7305.00	42.06	49.38	-7.24	54.00	-11.94	387	360	Average	Vertical	
3	7305.00	51.79	59.03	-7.24	74.00	-22.21	387	360	Peak	Vertical	
4	9740.00	43.95	48.58	-4.63	85.69	-41.74	326	0	Average	Vertical	
5	9740.00	53.21	57.84	-4.63	88.98	-35.77	326	0	Peak	Vertical	
6	12175.00	52.42	52.39	0.03	54.00	-1.58	390	200	Average	Vertical	
7	12175.00	61.58	61.55	0.03	74.00	-12.42	390	200	Peak	Vertical	

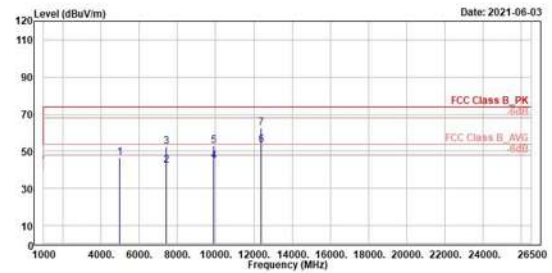
ZIGBEE

25 (Horizontal)

25 (Vertical)



Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4950.00	45.68	55.15	-9.47	74.00	+26.32	180	57	Peak	Horizontal	
2	7425.00	47.38	54.66	-7.28	74.00	+26.62	310	368	Peak	Horizontal	
3	9900.00	44.41	48.81	-4.40	72.88	+28.47	400	247	Average	Horizontal	
4	9900.00	52.94	57.34	-4.40	76.66	+23.72	400	247	Peak	Horizontal	
5	12375.00	46.90	46.68	0.22	54.00	-7.10	100	321	Average	Horizontal	
6	12375.00	56.68	56.38	0.22	74.00	+17.40	180	321	Peak	Horizontal	



Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4950.00	46.59	56.06	-9.47	74.00	+27.41	400	248	Peak	Vertical	
2	7425.00	42.36	49.64	-7.28	54.00	-11.64	311	16	Average	Vertical	
3	7425.00	52.34	59.62	-7.28	74.00	+21.66	311	16	Peak	Vertical	
4	9900.00	44.51	48.91	-4.40	85.60	+41.09	400	286	Average	Vertical	
5	9900.00	53.09	57.49	-4.40	88.93	+35.84	400	286	Peak	Vertical	
6	12375.00	53.42	53.20	0.22	54.00	-0.58	200	97	Average	Vertical	
7	12375.00	62.53	62.31	0.22	74.00	+11.47	200	97	Peak	Vertical	

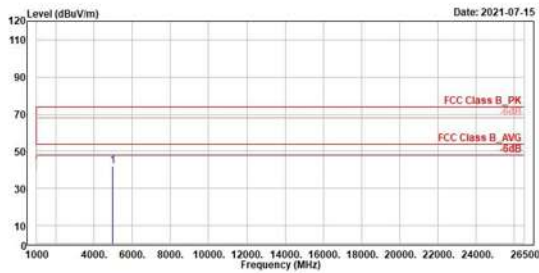
ZIGBEE

26 (Horizontal)

26 (Vertical)



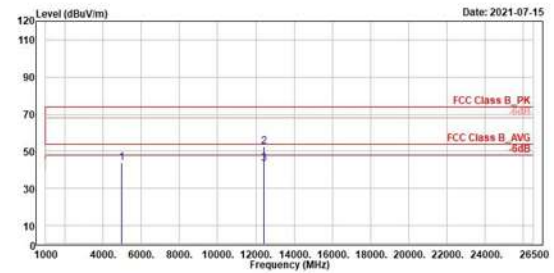
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Freq	Level	Read	Level	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 4960.00	42.09	51.36	-9.27	74.00	-31.91	100	43	Peak	Horizontal	



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Freq	Level	Read	Level	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 4960.00	44.00	53.27	-9.27	74.00	-30.00	100	268	Peak	Vertical	
2 12400.00	52.67	51.59	1.08	74.00	-21.33	100	71	Peak	Vertical	
3 12480.00	43.17	42.09	1.08	54.00	-10.83	100	71	Average	Vertical	

Mains Conducted Emission, 150kHz ~ 30MHz

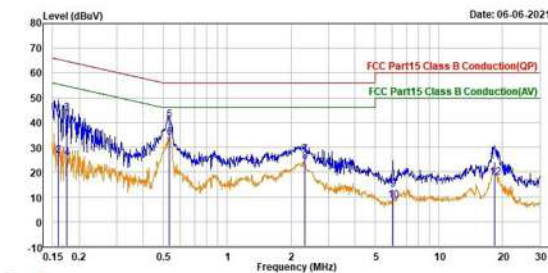
Worst Band

(Line)

(Neutral)



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Tel:+886-2172-1000 Fax:+886-2172-1322

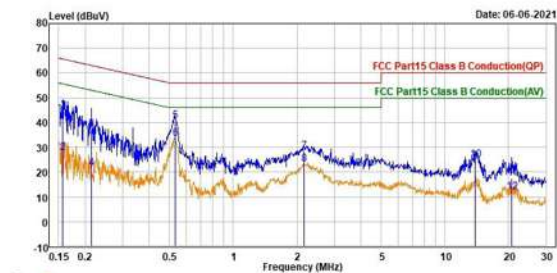


Trace: 1

	Read			Limit	Over			
Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase	Note
MHz	dBuV	dB	dBuV	dBuV	dB			
1	0.159	33.80	9.66	43.46	65.50	-22.04 QP	line1	
2	0.159	16.95	9.66	26.61	55.50	-28.89 Average	line1	
3	0.174	33.91	9.65	43.56	64.76	-21.20 QP	line1	
4	0.174	15.88	9.65	25.53	54.76	-29.23 Average	line1	
5	0.532	31.18	9.65	40.83	56.00	-15.17 QP	line1	
6	0.532	24.20	9.65	33.85	46.00	-12.15 Average	line1	
7	2.326	17.27	9.68	26.95	56.00	-29.05 QP	line1	
8	2.326	14.54	9.68	24.22	46.00	-21.78 Average	line1	
9	6.087	3.37	9.72	13.09	60.00	-46.91 QP	line1	
10	6.087	-1.24	9.72	8.48	50.00	-41.52 Average	line1	
11	18.316	14.64	9.75	24.39	60.00	-35.61 QP	line1	
12	18.316	7.90	9.75	17.65	50.00	-32.35 Average	line1	



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Trace: 1

	Read			Limit	Over			
Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase	Note
MHz	dBuV	dB	dBuV	dBuV	dB			
1	0.157	35.29	9.68	44.97	65.63	-20.66 QP	neutral	
2	0.157	18.00	9.68	27.68	55.63	-27.95 Average	neutral	
3	0.215	27.53	9.67	37.20	63.02	-25.82 QP	neutral	
4	0.215	11.70	9.67	21.37	53.02	-31.65 Average	neutral	
5	0.532	30.83	9.66	40.49	56.00	-15.51 QP	neutral	
6	0.532	23.82	9.66	33.48	46.00	-12.52 Average	neutral	
7	2.169	18.52	9.70	28.22	56.00	-27.78 QP	neutral	
8	2.169	13.49	9.70	23.19	46.00	-22.81 Average	neutral	
9	13.855	14.26	9.82	24.08	60.00	-35.92 QP	neutral	
10	13.855	15.07	9.82	24.89	50.00	-25.11 Average	neutral	
11	20.746	7.47	9.83	17.30	60.00	-42.70 QP	neutral	
12	20.746	2.09	9.83	11.92	50.00	-38.08 Average	neutral	