

# APP A Conducted Power

## 1. WCDMA Conducted Power

UMTS 1900MHz (Band II)		Average Power (dBm)			Tune-up Limit (dBm)
		9262CH	9400CH	9538CH	
WCDMA	12.2kbps RMC	18.34	18.46	18.48	18.5
	64kbps RMC	17.91	18.06	17.72	18.5
	144kbps RMC	18	17.99	17.77	18.5
	384kbps RMC	17.93	18.08	17.74	18.5
HSDPA	Subtest 1	18.03	18.14	17.82	18.5
	Subtest 2	17.83	18.06	17.77	18.5
	Subtest 3	17.8	18.12	17.8	18.5
	Subtest 4	17.84	18.09	17.76	18.5
HSUPA	Subtest 1	15.28	15.73	15.77	16.0
	Subtest 2	16.17	16.7	16.11	17.0
	Subtest 3	16.1	16.37	16.06	17.0
	Subtest 4	16.84	16.08	16.06	17.0
	Subtest 5	18.11	18.24	17.94	18.5

Note:

- 1) As per KDB 447498 D01 sec.4.1.d at the maximum rated output power and within the tune-up tolerance range specified for the product, but not more than 2 dB lower than the maximum tune-up tolerance limit.

UMTS 1700MHz (Band IV)		Average Power (dBm)			Tune-up Limit (dBm)
		1312CH	1413CH	1513CH	
WCDMA	12.2kbps RMC	17.83	18.53	18.51	19.0
	64kbps RMC	17.66	16.9	18.43	18.5
	144kbps RMC	17.68	16.96	18.41	18.5
	384kbps RMC	17.65	16.91	18.38	18.5
HSDPA	Subtest 1	17.63	17.04	18.49	18.5
	Subtest 2	18.52	17	18.49	19.0
	Subtest 3	18.52	17.01	18.44	19.0
	Subtest 4	18.48	16.99	18.44	18.5
HSUPA	Subtest 1	15.43	14.77	16.4	16.5
	Subtest 2	16.35	15.31	16.36	16.5
	Subtest 3	16.36	15.04	16.4	16.5
	Subtest 4	16.4	15.08	16.4	16.5
	Subtest 5	17.88	17.14	18	18.0

Note:

- 2) As per KDB 447498 D01 sec.4.1.d at the maximum rated output power and within the tune-up tolerance range specified for the product, but not more than 2 dB lower than the maximum tune-up tolerance limit.

UMTS 850MHz (Band V)		Average Power (dBm)			Tune-up Limit (dBm)
		4132CH	4182CH	4233CH	
WCDMA	12.2kbps RMC	21.68	21.83	21.96	22.0
	64kbps RMC	21.56	21.67	21.78	22.0
	144kbps RMC	21.53	21.63	21.81	22.0
	384kbps RMC	21.52	21.7	21.77	22.0
HSDPA	Subtest 1	20.72	21.04	20.90	21.5
	Subtest 2	20.91	21.00	20.87	21.5
	Subtest 3	20.90	21.00	20.85	21.5
	Subtest 4	20.87	20.98	20.72	21.0
HSUPA	Subtest 1	19.93	19.55	19.69	20.0
	Subtest 2	19.44	19.77	19.65	20.0
	Subtest 3	19.41	19.76	19.65	20.0
	Subtest 4	19.43	19.76	19.68	20.0
	Subtest 5	20.61	20.95	20.49	21.0

Note:

- 3) As per KDB 447498 D01 sec.4.1.d at the maximum rated output power and within the tune-up tolerance range specified for the product, but not more than 2 dB lower than the maximum tune-up tolerance limit.

## 2. LTE Conducted Power

### LTE B2

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				18607	18900	19193	
1.4MHz	QPSK	1	0	16.28	16.68	16.21	17.0
		1	2	16.63	16.82	16.28	
		1	5	16.38	16.56	15.99	
		3	0	16.41	16.72	16.25	17.0
		3	1	16.47	16.71	16.23	
		3	3	16.5	16.68	16.13	
	6	0	14.52	14.75	14.31	15.0	
	16QAM	1	0	14.49	14.87	14.5	15.0
		1	2	14.59	15.07	14.61	
		1	5	14.31	14.81	14.3	
		3	0	14.4	14.72	14.31	15.0
		3	1	14.38	14.7	14.3	
3		3	14.38	14.67	14.18		
6	0	13.4	13.8	13.17	14.0		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				18615	18900	19185	
3MHz	QPSK	1	0	16.33	16.73	16.43	17.0
		1	8	16.57	16.8	16.31	
		1	14	16.46	16.64	15.94	
		8	0	14.55	14.91	14.55	15.0
		8	4	14.55	14.91	14.56	
		8	7	14.64	14.89	14.35	
	15	0	14.6	14.9	14.46	15.0	
	16QAM	1	0	14.58	15	14.72	15.5
		1	8	14.83	15.1	14.62	
		1	14	14.72	14.92	14.24	
		8	0	13.58	13.87	13.53	14.0
		8	4	13.58	13.86	13.54	
8		7	13.65	13.83	13.31		
15	0	13.58	13.8	13.36	14.0		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				18625	18900	19175	
5MHz	QPSK	1	0	15.94	16.35	16.3	17.0
		1	12	16.64	16.84	16.53	
		1	24	16.16	16.23	15.6	
		12	0	14.37	14.72	14.6	15.0

		12	6	14.37	14.73	14.6	
		12	13	14.51	14.68	14.25	
		25	0	14.45	14.72	14.43	
	16QAM	1	0	14.01	14.44	14.63	15.0
		1	12	14.74	14.97	14.88	
		1	24	14.25	14.35	13.93	
		12	0	13.34	13.61	13.61	14.0
		12	6	13.34	13.61	13.62	
		12	13	13.47	13.56	13.25	
25	0	13.45	13.63	13.39	14.0		
<b>Bandwidth</b>	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				18650	18900	19150	
<b>10MHz</b>	QPSK	1	0	15.37	16.5	16.74	17.0
		1	24	16.09	16.8	16.81	
		1	49	16.51	16.93	16.23	
		25	0	13.88	14.86	15.08	15.5
		25	12	13.89	14.86	15.09	
		25	25	14.51	15.06	14.82	
	50	0	14.21	14.96	14.94	15.0	
	16QAM	1	0	13.54	14.75	15.02	15.5
		1	24	14.35	15.09	15.14	
		1	49	14.69	15.19	14.52	
		25	0	12.88	13.74	14.07	14.5
		25	12	12.88	13.75	14.05	
25		25	13.5	13.93	13.8		
50	0	13.2	13.82	13.94	14.0		
<b>Bandwidth</b>	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				18675	18900	19125	
<b>15MHz</b>	QPSK	1	0	15.62	16.87	15.84	17.0
		1	38	16.3	16.76	15.92	
		1	74	16.29	16.66	14.9	
		38	0	14.07	15.04	14.15	15.5
		38	18	14.07	15.04	14.15	
		38	37	14.07	15.04	14.15	
	75	0	14.31	14.99	13.95	15.0	
	16QAM	1	0	13.76	15.16	14.18	15.5
		1	38	14.58	15.06	14.35	
		1	74	14.47	14.99	13.25	
		38	0	13.03	13.89	13.03	14.0
		38	18	13.03	13.89	13.03	
38		37	13.03	13.89	13.03		
75	0	13.24	13.81	12.77	14.0		

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				18700	18900	19100	
20MHz	QPSK	1	0	17.03	17.49	15.82	17.5
		1	49	17.24	17.48	17.5	
		1	99	17.26	17.45	15.51	
		50	0	13.72	14.88	13.93	15.0
		50	25	13.72	14.92	13.94	
		50	50	14.4	14.93	14.95	
	100	0	14.06	15.17	13.97	15.5	
	16QAM	1	0	14.15	15.79	14.06	16.0
		1	49	14.25	15.07	14.13	
		1	99	14.54	16	14.12	
		50	0	12.57	13.91	12.79	14.0
		50	25	12.57	13.92	12.8	
		50	50	13.25	14.16	12.86	
		100	0	12.91	14.01	12.78	14.5

Note:

- 4) As per KDB 447498 D01 sec.4.1.d at the maximum rated output power and within the tune-up tolerance range specified for the product, but not more than 2 dB lower than the maximum tune-up tolerance limit.

## LTE B4

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				19957	20175	20393	
1.4MHz	QPSK	1	0	15.68	16.38	17.47	17.5
		1	2	16.79	16.56	17.6	
		1	5	16.72	16.32	17.35	
		3	0	16.71	16.43	17.52	18.0
		3	1	16.7	16.43	17.52	
		3	3	16.78	16.42	17.49	
		6	0	15.2	14.98	16.07	16.5
	16QAM	1	0	15.26	14.77	16.15	16.5
		1	2	15.45	14.99	16.35	
		1	5	15.38	14.73	16.09	
		3	0	15.13	14.85	16.01	16.5
		3	1	15.13	14.85	16	
		3	3	15.17	14.8	15.97	
		6	0	13.11	12.97	14.14	14.5
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				19965	20175	20385	
3MHz	QPSK	1	0	16.61	16.37	17.53	18.0
		1	8	17.03	16.49	17.6	
		1	14	17.04	16.28	17.4	
		8	0	15.28	15.02	16.15	16.5
		8	4	15.28	15.04	16.16	
		8	7	15.56	15.02	16.14	
		15	0	15.44	15.03	16.15	16.5
	16QAM	1	0	15.27	15.08	16.24	16.5
		1	8	15.7	15.23	16.35	
		1	14	15.71	15.01	16.15	
		8	0	13.37	13.08	14.22	14.5
		8	4	13.38	13.08	14.22	
		8	7	13.65	13.05	14.19	
		15	0	13.48	13.03	14.17	14.5
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				19975	20175	20375	
5MHz	QPSK	1	0	16.26	16.12	17.21	18.0
		1	12	17.25	16.55	17.7	
		1	24	16.87	15.84	17.07	
		12	0	15.2	14.83	16	16.5
		12	6	15.21	14.84	16.01	

	16QAM	12	13	15.59	14.79	15.97	16.0		
		25	0	15.43	14.83	16			
		1	0	14.73	14.49	15.94	16.5		
		1	12	15.76	15.12	16.46			
		1	24	15.37	14.37	15.83			
			16QAM	12	0	13.24	12.84	14.06	14.5
				12	6	13.24	12.84	14.06	
				12	13	13.62	12.78	14.02	
				25	0	13.48	12.86	13.99	14.0
<b>Bandwidth</b>	<b>Modulation</b>	<b>RB size</b>	<b>RB offset</b>	<b>Channel</b>	<b>Channel</b>	<b>Channel</b>	<b>Tune-up (dBm)</b>		
				20000	20175	20350			
<b>10MHz</b>	QPSK	1	0	16.47	16.15	17.37	18.0		
		1	24	17.68	16.53	17.74			
		1	49	17.83	16.32	17.73			
		25	0	15.93	14.94	16.13	16.5		
		25	12	15.93	14.95	16.14			
		25	25	16.5	15.05	16.37			
		50	0	16.23	15	16.26	16.5		
	16QAM	1	0	15.24	15.05	15.74	17.0		
		1	24	16.48	15.25	16.16			
		1	49	16.6	15.12	16.16			
		25	0	13.89	13	14.16	14.5		
		25	12	13.89	13	14.16			
		25	25	14.47	13.1	14.39			
		50	0	14.18	13.05	14.24	14.5		
<b>Bandwidth</b>	<b>Modulation</b>	<b>RB size</b>	<b>RB offset</b>	<b>Channel</b>	<b>Channel</b>	<b>Channel</b>	<b>Tune-up (dBm)</b>		
				20025	20175	20325			
<b>15MHz</b>	QPSK	1	0	16.81	16.36	17.39	18.0		
		1	38	17.76	16.46	17.48			
		1	74	17.61	16.05	17.24			
		38	0	16.15	15.08	16.11	16.5		
		38	18	16.16	15.1	16.12			
		38	37	16.16	15.11	16.12			
		75	0	16.28	14.99	16.12	16.5		
	16QAM	1	0	15.58	15.18	16.15	17.0		
		1	38	16.56	15.33	16.27			
		1	74	16.41	15.06	16.06			
		38	0	14.05	13.11	14.01	14.5		
		38	18	14.05	13.12	14.01			
		38	37	14.04	13.12	14.01			
		75	0	14.14	12.95	13.98	14.5		
<b>Bandwidth</b>	<b>Modulation</b>	<b>RB size</b>	<b>RB offset</b>	<b>Channel</b>	<b>Channel</b>	<b>Channel</b>			

				20050	20175	20300	Tune-up (dBm)
<b>20MHz</b>	QPSK	1	0	17.97	16.99	18.13	18.5
		1	49	17.44	16.52	17.54	
		1	99	16.67	16.53	17.86	
		50	0	15.63	14.89	16.38	16.5
		50	25	15.65	14.91	16.06	
		50	50	16.19	14.96	16.37	
		100	0	15.91	14.92	16.2	16.5
	16QAM	1	0	15.17	15.1	16.47	17.0
		1	49	15.96	15.23	16.15	
		1	99	16.48	15.13	16.78	
		50	0	13.68	12.87	13.94	14.5
		50	25	13.68	12.87	13.95	
		50	50	14.22	12.89	14.24	
		100	0	13.94	12.85	14.09	14.5

Note:

- 5) As per KDB 447498 D01 sec.4.1.d at the maximum rated output power and within the tune-up tolerance range specified for the product, but not more than 2 dB lower than the maximum tune-up tolerance limit.



## LTE B5

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				20407	20525	20643	
1.4MHz	QPSK	1	0	22.27	22.49	22.63	23.0
		1	2	22.21	22.44	22.68	
		1	5	22.16	22.54	22.68	
		3	0	22.32	22.49	22.76	23.0
		3	1	22.25	22.49	22.7	
		3	3	22.36	22.44	22.72	
		6	0	21.35	21.41	21.64	22.0
	16QAM	1	0	21.81	21.21	21.9	22.0
		1	2	21.81	21.37	21.84	
		1	5	21.79	21.4	21.83	
		3	0	21.01	21.38	21.4	21.5
		3	1	20.98	21.37	21.39	
		3	3	21.07	21.31	21.37	
		6	0	20.52	20.8	20.75	21.0
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				20415	20525	20635	
3MHz	QPSK	1	0	22.16	22.51	22.65	23.0
		1	8	22.17	22.48	22.58	
		1	14	22.28	22.44	22.67	
		8	0	21.27	21.39	21.68	22.0
		8	4	21.28	21.4	21.7	
		8	7	21.38	21.49	21.59	
		15	0	21.23	21.36	21.7	22.0
	16QAM	1	0	20.93	21.05	21.45	21.5
		1	8	20.87	21.06	21.49	
		1	14	21.09	21.06	21.5	
		8	0	20.5	20.44	20.89	21.0
		8	4	20.51	20.44	20.77	
		8	7	20.48	20.67	20.61	
		15	0	20.38	20.46	20.85	21.0
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				20425	20525	20625	
5MHz	QPSK	1	0	22.2	22.31	22.59	23.0
		1	12	22.32	22.39	22.54	
		1	24	22.23	22.3	22.64	
		12	0	21.18	21.25	21.7	22.0
		12	6	21.33	21.27	21.67	

		12	13	21.3	21.39	21.7	22.0
		25	0	21.34	21.38	21.58	
	16QAM	1	0	20.57	21.41	21.08	22.0
		1	12	20.72	21.62	21.08	
		1	24	20.67	21.73	20.98	
		12	0	20.36	20.47	20.69	21.0
		12	6	20.35	20.48	20.69	
		12	13	20.47	20.68	20.78	
25	0	20.52	20.63	20.88	21.0		
<b>Bandwidth</b>	<b>Modulation</b>	<b>RB size</b>	<b>RB offset</b>	<b>Channel</b>	<b>Channel</b>	<b>Channel</b>	<b>Tune-up (dBm)</b>
				20450	20525	20600	
<b>10MHz</b>	QPSK	1	0	22.21	22.28	22.37	23.0
		1	24	22.33	22.34	22.51	
		1	49	22.45	22.31	22.56	
		25	0	21.44	21.43	21.59	22.0
		25	12	21.29	21.44	21.52	
		25	25	21.37	21.55	21.64	
		50	0	21.41	21.39	21.43	22.0
	16QAM	1	0	21.3	21.12	21.41	21.5
		1	24	21.33	21.33	21.41	
		1	49	21.32	21.3	21.43	
		25	0	20.48	20.47	20.66	21.0
		25	12	20.49	20.47	20.67	
		25	25	20.49	20.68	20.96	
		50	0	20.42	20.57	20.82	21.0

Note:

- 6) As per KDB 447498 D01 sec.4.1.d at the maximum rated output power and within the tune-up tolerance range specified for the product, but not more than 2 dB lower than the maximum tune-up tolerance limit.

## LTE B12

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				23017	23095	23173	
1.4MHz	QPSK	1	0	22.58	22.63	22.68	23.0
		1	2	22.56	22.61	22.65	
		1	5	22.55	22.59	22.73	
		3	0	22.76	22.67	22.71	23.0
		3	1	22.76	22.66	22.7	
		3	3	22.75	22.64	22.81	
		6	0	21.65	21.56	21.79	22.0
	16QAM	1	0	22.12	21.38	21.77	22.5
		1	2	22.13	21.36	21.88	
		1	5	22.09	21.28	21.98	
		3	0	21.39	21.41	21.44	22.0
		3	1	21.39	21.38	21.48	
		3	3	21.3	21.32	21.56	
		6	0	20.79	20.73	20.8	21.0
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				23025	23095	23165	
3MHz	QPSK	1	0	22.53	22.63	22.72	23.0
		1	8	22.56	22.67	22.71	
		1	14	22.57	22.58	22.76	
		8	0	21.58	21.46	21.61	22.0
		8	4	21.6	21.47	21.5	
		8	7	21.77	21.42	21.61	
		15	0	21.56	21.46	21.57	22.0
	16QAM	1	0	21.42	21.14	21.8	22.0
		1	8	21.37	21.07	21.85	
		1	14	21.41	21.15	21.92	
		8	0	20.85	20.77	20.45	21.0
		8	4	20.86	20.78	20.5	
		8	7	20.7	20.63	20.69	
		15	0	20.83	20.5	20.34	21.0
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				23035	23095	23155	
5MHz	QPSK	1	0	22.57	22.51	22.81	23.0
		1	12	22.56	22.41	22.8	
		1	24	22.56	22.5	22.82	
		12	0	21.58	21.33	21.6	22.0
		12	6	21.59	21.51	21.77	

		12	13	21.71	21.43	21.72	22.0
		25	0	21.66	21.46	21.59	
	16QAM	1	0	20.94	21.56	21.33	22.0
		1	12	21.02	21.54	21.27	
		1	24	21	21.73	21.54	
		12	0	20.8	20.67	20.68	21.0
		12	6	20.81	20.7	20.72	
		12	13	20.47	20.57	20.33	
		25	0	20.66	20.63	20.41	21.0
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				23060	23095	23130	
10MHz	QPSK	1	0	22.54	22.56	22.63	23.0
		1	24	22.53	22.56	22.66	
		1	49	22.55	22.66	22.7	
		25	0	21.67	21.46	21.46	22.0
		25	12	21.68	21.48	21.41	
		25	25	21.47	21.53	21.7	
		50	0	21.69	21.51	21.54	22.0
	16QAM	1	0	21.3	21.54	21.22	22.0
		1	24	21.37	21.33	21.53	
		1	49	21.09	21.44	21.6	
		25	0	20.49	20.79	20.62	21.0
		25	12	20.49	20.8	20.63	
		25	25	20.54	20.73	20.59	
				50	0	20.68	20.63

Note:

- 7) As per KDB 447498 D01 sec.4.1.d at the maximum rated output power and within the tune-up tolerance range specified for the product, but not more than 2 dB lower than the maximum tune-up tolerance limit.

## LTE B13

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				23205	23230	23255	
5MHz	QPSK	1	0	21.38	22.47	22.45	22.5
		1	12	22.36	22.35	22.43	
		1	24	22.44	22.39	22.37	
		12	0	21.4	21.45	21.46	22.0
		12	6	21.55	21.45	21.5	
		12	13	21.38	21.54	21.38	
	25	0	21.42	21.53	21.56	22.0	
	16QAM	1	0	21.64	20.75	21.61	22.0
		1	12	21.54	20.96	21.63	
		1	24	21.65	20.87	21.58	
		12	0	20.89	20.85	20.55	21.0
		12	6	20.89	20.85	20.53	
		12	13	20.9	20.55	20.51	
		25	0	20.84	20.96	20.57	21.0
Bandwidth		Modulation	RB size	RB offset	Channel		
	23230						
10MHz	QPSK	1	0	22.48			22.5
		1	24	22.4			
		1	49	22.35			
		25	0	21.32			22.0
		25	12	21.34			
		25	25	21.44			
		50	0	21.61			22.0
	16QAM	1	0	21.23			21.5
		1	24	21.18			
		1	49	21.14			
		25	0	20.86			21.0
		25	12	20.88			
		25	25	20.43			
		50	0	20.86			21.0

Note:

- 8) As per KDB 447498 D01 sec.4.1.d at the maximum rated output power and within the tune-up tolerance range specified for the product, but not more than 2 dB lower than the maximum tune-up tolerance limit.

## LTE B17

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				23755	23790	23825	
5MHz	QPSK	1	0	22.63	22.59	22.62	23.0
		1	12	22.67	22.64	22.59	
		1	24	22.64	22.69	22.64	
		12	0	21.46	21.4	21.66	22.0
		12	6	21.47	21.42	21.67	
		12	13	21.55	21.76	21.52	
	25	0	21.53	21.56	21.62	22.0	
	16QAM	1	0	21.11	21.26	20.99	21.5
		1	12	20.86	21.4	21.01	
		1	24	20.97	21.48	21.03	
		12	0	20.6	20.54	20.75	21.0
		12	6	20.61	20.55	20.76	
		12	13	20.53	20.82	20.49	
		25	0	20.67	20.61	20.43	21.0
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				23780	23790	23800	
10MHz	QPSK	1	0	22.51	22.53	22.58	23.0
		1	24	22.5	22.62	22.57	
		1	49	22.68	22.63	22.63	
		25	0	21.52	21.49	21.39	22.0
		25	12	21.37	21.4	21.43	
		25	25	21.79	21.75	21.56	
		50	0	21.38	21.67	21.56	22.0
	16QAM	1	0	21.36	21.25	21.97	22.5
		1	24	21.07	21.51	22.09	
		1	49	21.33	21.43	22.26	
		25	0	20.62	20.64	20.63	21.0
		25	12	20.53	20.67	20.6	
		25	25	20.79	20.91	20.48	
		50	0	20.61	20.65	20.49	21.0

Note:

- 9) As per KDB 447498 D01 sec.4.1.d at the maximum rated output power and within the tune-up tolerance range specified for the product, but not more than 2 dB lower than the maximum tune-up tolerance limit.

### 3. Wi-Fi 2.4GHz

Mode	Date Rate	Ch.#	Freq. (MHz)	Ant 1		Duty Cycle (%)		
				Avg. Pwr. (dBm)	Tune-up (dBm)			
802.11b	1Mbps	1	2412	18.19	18.5	99.41		
		6	2437	17.73				
		11	2462	18.03				
802.11g	6Mbps	1	2412	Not Required	15.5	/		
		6	2437					
		11	2462					
802.11n (20M)	HT0	1	2412		Not Required	15.5	/	
		6	2437					
		11	2462					
802.11n (40M)	HT0	3	2422			Not Required	15.5	/
		6	2437					
		9	2452					

Note:

- 10) As per KDB 447498 D01 sec.4.1.d at the maximum rated output power and within the tune-up tolerance range specified for the product, but not more than 2 dB lower than the maximum tune-up tolerance limit.

### 4. Wi-Fi 5GHz

Band	Mode Data Rate	BW[MHz]	Channel	Freq[MHz]	Ant 1		Duty Cycle (%)		
					Avg Pwr(dBm)	Tune-up (dBm)			
5.2GHz	802.11a 6Mbps	20M	36	5180	Not Required	16.5	/		
			40	5200					
			44	5220					
			48	5240					
			52	5260					
			56	5280					
			60	5300					
			64	5320					
	802.11n HT0	20M	36	5180					
			40	5200					
			44	5220					
			48	5240					
			52	5260					
			56	5280					
			60	5300					
			64	5320					
	802.11ac VHT0	20M	36	5180					
			40	5200					
			44	5220					
			48	5240					
			52	5260					
			56	5280					
			60	5300					
			64	5320					
	802.11n HT0	40M	38	5190		16.42		16.5	92.86
			46	5230		14.52			
			54	5270					
			62	5310					
802.11ac VHT0		40M	38	5190		16.5	/		
			46	5230		16.0			
			54	5270		16.0			
			62	5310		15.0			
802.11ac VHT0	80M	42	5210						
		58	5290						

Note:

11) As per KDB 447498 D01 sec.4.1.d at the maximum rated output power and within the tune-up tolerance range specified for the product, but not more than 2 dB lower than the maximum tune-up tolerance limit.



Band	Mode Data Rate	BW[MHz]	Channel	Freq[MHz]	Ant 1		Duty Cycle (%)	
					Avg Pwr(dBm)	Tune-up (dBm)		
5.6GHz	802.11a 6Mbps	20M	100	5500	Not Required	13.0	/	
			104	5520				
			108	5540				
			112	5560				
			116	5580				
			120	5600				
			124	5620				
			128	5640				
			132	5660				
			136	5680				
			140	5700				
			144	5720				
	802.11n HT0	20M	100	5500		13.5	/	
			104	5520				
			108	5540				
			112	5560				
			116	5580				
			120	5600				
			124	5620				
			128	5640				
			132	5660				
			136	5680				
			140	5700				
			144	5720				
	802.11ac VHT0	20M	100	5500		13.5		
			104	5520				
			108	5540				
			112	5560				
			116	5580				
			120	5600				
			124	5620				
			128	5640				
			132	5660				
			136	5680				
			140	5700				
			144	5720				
	802.11n HT0	40M	102	5510		16.01		16.5
			110	5550		15.84		
			118	5590		15.25		
			126	5630		15.27		

			134	5670	15.59		
			142	5710	15.37		
	802.11ac VHT0	40M	102	5510	Not Required	16.5	/
			110	5550			
			118	5590			
			126	5630			
			134	5670			
			142	5710			
	802.11ac VHT0	80M	106	5530	Not Required	16.0	/
			122	5610			
138			5690				

Note:

12) As per KDB 447498 D01 sec.4.1.d at the maximum rated output power and within the tune-up tolerance range specified for the product, but not more than 2 dB lower than the maximum tune-up tolerance limit.

Band	Mode Data Rate	BW[MHz]	CH	Freq[MHz]	Ant 1		Duty Cycle (%)	
					Avg Pwr(dBm)	Tune-up (dBm)		
5.8G	802.11a 6Mbps	20	149	5745	15.66	17.0	95.86	
			153	5765	15.45			
			157	5785	15.96			
			161	5805	15.52			
			165	5825	16.67			
	802.11n20 HT0		149	5745	Not Required	17.0	/	
			153	5765				
			157	5785				
			161	5805				
			165	5825				
	802.11ac20 VHT0		149	5745		17.0		/
			153	5765				
			157	5785				
			161	5805				
			165	5825				
	802.11n40 HT0		40	151		5755		
159		5795						
151		5755						
802.11ac40 VHT0	159	5795		16.0				
	151	5755						
802.11ac80 VHT0	80	155	5775	15.5				
		155	5775					

Note:

- 13) As per KDB 447498 D01 sec.4.1.d at the maximum rated output power and within the tune-up tolerance range specified for the product, but not more than 2 dB lower than the maximum tune-up tolerance limit.

## 5. Bluetooth

Mode	Test Mode	Ch.#	Freq. (MHz)	Ant 1		Duty Cycle (%)
				Avg. Pwr. (dBm)	Tune-up (dBm)	
Bluetooth	DH5	0	2402	3.56	4.5	77.54
		39	2441	4.17		
		78	2480	3.25		
Bluetooth	3DH5	0	2402	2.31	3.0	/
		39	2441	2.87		
		78	2480	2.66		
BLE	1M	0	2402	1.20	3.0	/
		19	2440	2.87		
		39	2480	1.66		
BLE	2M	0	2402	1.18	3.0	/
		19	2440	2.83		
		39	2480	1.59		

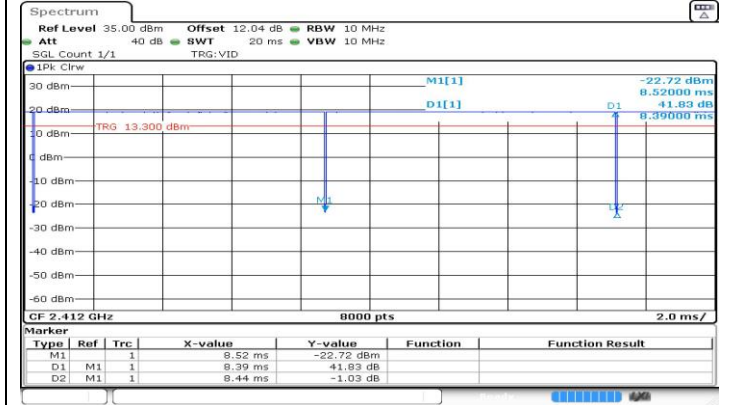
Note:

- 14) The output power of the device was set to transmit at maximum power for all tests.  
 15) The maximum output power mode BT DH5 was selected as the primary mode to test SAR for Bluetooth mode. SAR measurement is not required for the other modes, when the secondary mode is  $\leq 0.25$  dB higher than the primary mode.

## 6. Duty Cycle

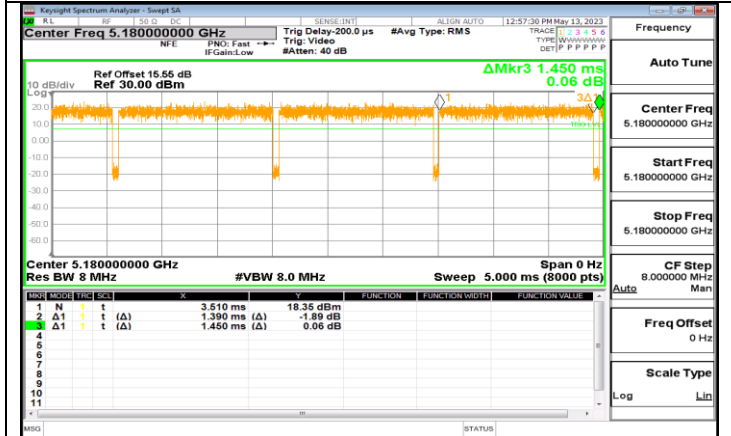
Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)
11b	8.39	8.44	0.9941	99.41
11a	1.39	1.45	0.9586	95.86
11n40	0.65	0.70	0.9286	92.86
DH5	2.90	3.74	0.7754	77.54

### 802.11b

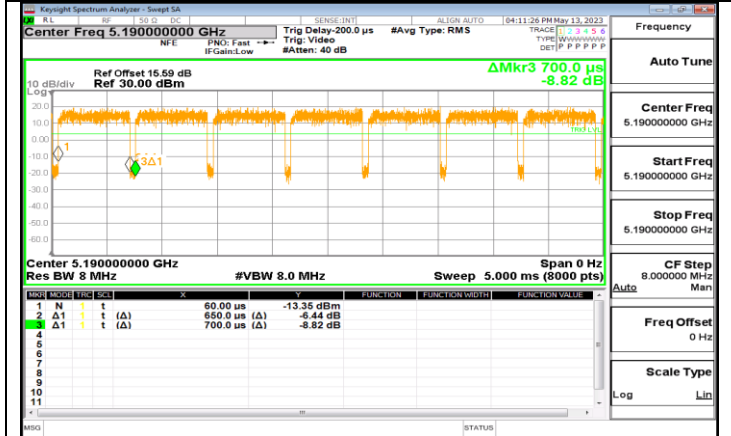


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### 802.11a



### 802.11n40



### BT DH5

