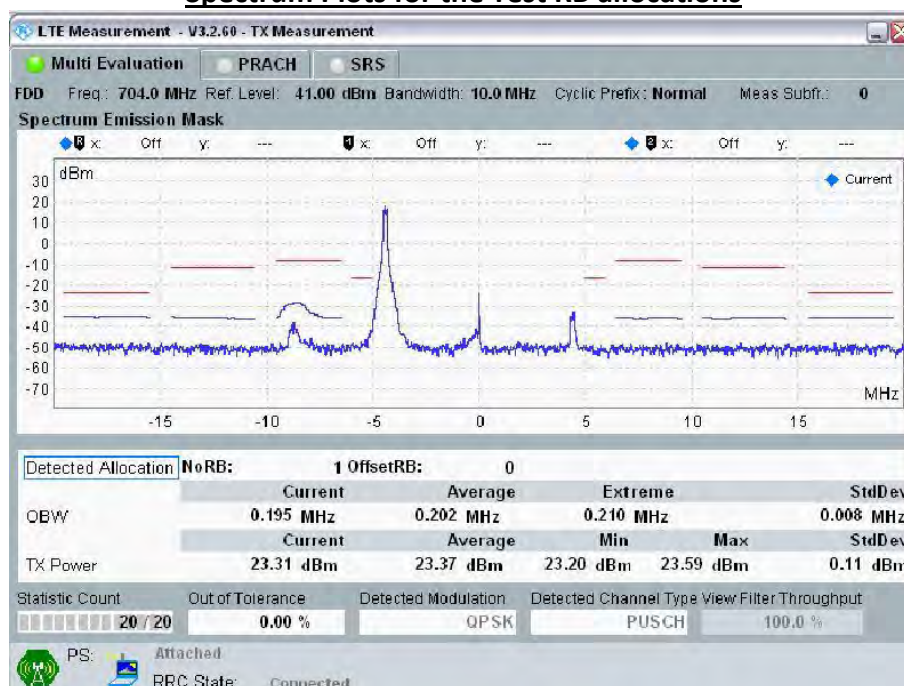


Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Start	MPR	Average power(dBm)	
								W/o Power back-off	W/ Power back-off
12	5	23035	701.5	QPSK	1	0	0	23.3	19.7
					1	37	0	23.2	19.5
					1	74	0	23.2	19.5
					36	0	1	22.4	19.7
					36	18	1	22.3	19.5
					36	35	1	22.2	19.5
					75	0	1	22.3	19.6
				16QAM	1	0	1	22.3	19.5
					1	37	1	22.2	19.4
					1	74	1	22.3	19.4
					36	0	2	21.4	19.3
					36	18	2	21.4	19.3
					36	35	2	21.3	19.4
					75	0	2	21.3	19.5
		23095	707.5	QPSK	1	0	0	23.2	19.6
					1	37	0	23.1	19.4
					1	74	0	23.0	19.3
					36	0	1	22.3	19.6
					36	18	1	22.2	19.3
					36	35	1	22.0	19.2
					75	0	1	22.0	19.2
				16QAM	1	0	1	22.4	19.4
					1	37	1	22.3	19.5
					1	74	1	22.2	19.4
					36	0	2	21.2	19.3
					36	18	2	21.2	19.1
					36	35	2	21.2	19.2
					75	0	2	21.1	19.4
		23155	713.5	QPSK	1	0	0	23.1	19.6
					1	37	0	23.0	19.3
					1	74	0	23.0	19.4
					36	0	1	22.2	19.5
					36	18	1	22.1	19.1
					36	35	1	22.0	19.0
					75	0	1	22.1	16.1
				16QAM	1	0	1	22.2	19.4
					1	37	1	22.0	19.2
					1	74	1	22.0	19.2
					36	0	2	21.2	19.2
					36	18	2	21.1	19.2
					36	35	2	21.0	19.1
					75	0	2	21.0	19.1

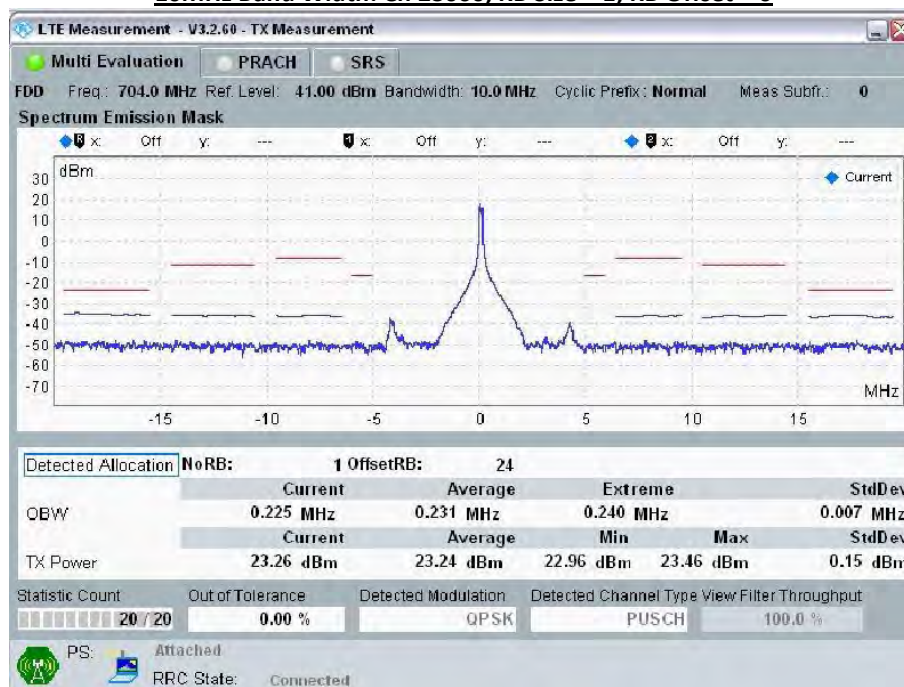
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Start	MPR	Average power(dBm)	
								W/o Power back-off	W/ Power back-off
12	3	23025	700.5	QPSK	1	0	0	23.2	19.6
					1	24	0	23.1	19.5
					1	49	0	23.1	19.4
					25	0	1	22.3	19.6
					25	12	1	22.2	19.4
					25	24	1	22.1	19.4
					50	0	1	22.2	19.5
				16QAM	1	0	1	22.3	19.4
					1	24	1	22.1	19.3
					1	49	1	22.2	19.3
					25	0	2	21.3	19.3
					25	12	2	21.3	19.2
					25	24	2	21.2	19.3
					50	0	2	21.2	19.4
		23095	707.5	QPSK	1	0	0	23.1	19.5
					1	24	0	23.0	19.4
					1	49	0	22.9	19.2
					25	0	1	22.2	19.5
					25	12	1	22.1	19.2
					25	24	1	21.9	19.1
					50	0	1	21.9	19.2
				16QAM	1	0	1	22.3	19.3
					1	24	1	22.2	19.4
					1	49	1	22.1	19.4
					25	0	2	21.1	19.3
					25	12	2	21.1	19.0
					25	24	2	21.1	19.1
					50	0	2	21.0	19.3
		23165	714.5	QPSK	1	0	0	23.0	19.5
					1	24	0	22.9	19.2
					1	49	0	22.9	19.3
					25	0	1	22.1	19.4
					25	12	1	22.0	19.1
					25	24	1	21.9	19.0
					50	0	1	22.0	16.1
				16QAM	1	0	1	22.1	19.3
					1	24	1	21.9	19.1
					1	49	1	21.9	19.1
					25	0	2	21.1	19.1
					25	12	2	21.0	19.1
					25	24	2	20.9	19.0
					50	0	2	20.9	19.1

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Start	MPR	Average power(dBm)	
								W/o Power back-off	W/ Power back-off
12	1.4	23017	699.7	QPSK	1	0	0	23.2	19.6
					1	12	0	23.1	19.4
					1	24	0	23.1	19.4
					12	0	1	22.3	19.6
					12	6	1	22.2	19.4
					12	11	1	22.1	19.4
					25	0	1	22.2	19.5
				16QAM	1	0	1	22.2	19.4
					1	12	1	22.1	19.3
					1	24	1	22.2	19.3
					12	0	2	21.3	19.2
					12	6	2	21.3	19.2
					12	11	2	21.2	19.3
					25	0	2	21.2	19.4
		23095	707.5	QPSK	1	0	0	23.1	19.5
					1	12	0	23.0	19.3
					1	24	0	22.9	19.2
					12	0	1	22.2	19.5
					12	6	1	22.1	19.2
					12	11	1	21.9	19.1
					25	0	1	21.9	19.1
				16QAM	1	0	1	22.3	19.3
					1	12	1	22.2	19.4
					1	24	1	22.1	19.3
					12	0	2	21.1	19.2
					12	6	2	21.1	19.0
					12	11	2	21.1	19.1
					25	0	2	21.0	19.3
		23173	715.3	QPSK	1	0	0	23.0	19.5
					1	12	0	22.9	19.2
					1	24	0	22.9	19.3
					12	0	1	22.1	19.4
					12	6	1	22.0	19.0
					12	11	1	21.9	18.9
					25	0	1	22.0	16.0
				16QAM	1	0	1	22.1	19.3
					1	12	1	21.9	19.1
					1	24	1	21.9	19.1
					12	0	2	21.1	19.1
					12	6	2	21.0	19.1
					12	11	2	20.9	19.0
					25	0	2	20.9	19.0

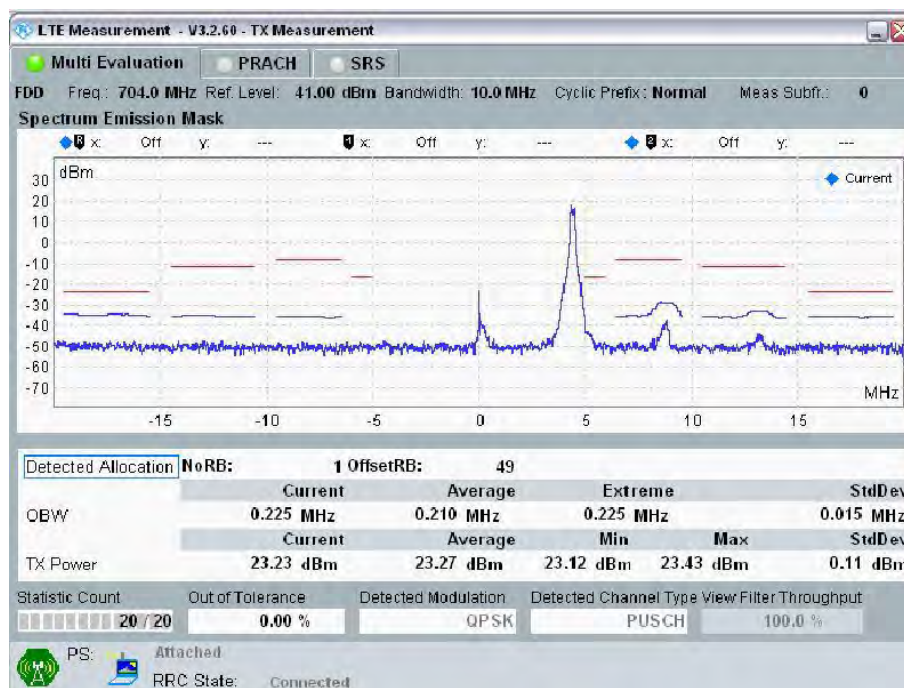
Spectrum Plots for the Test RB allocations



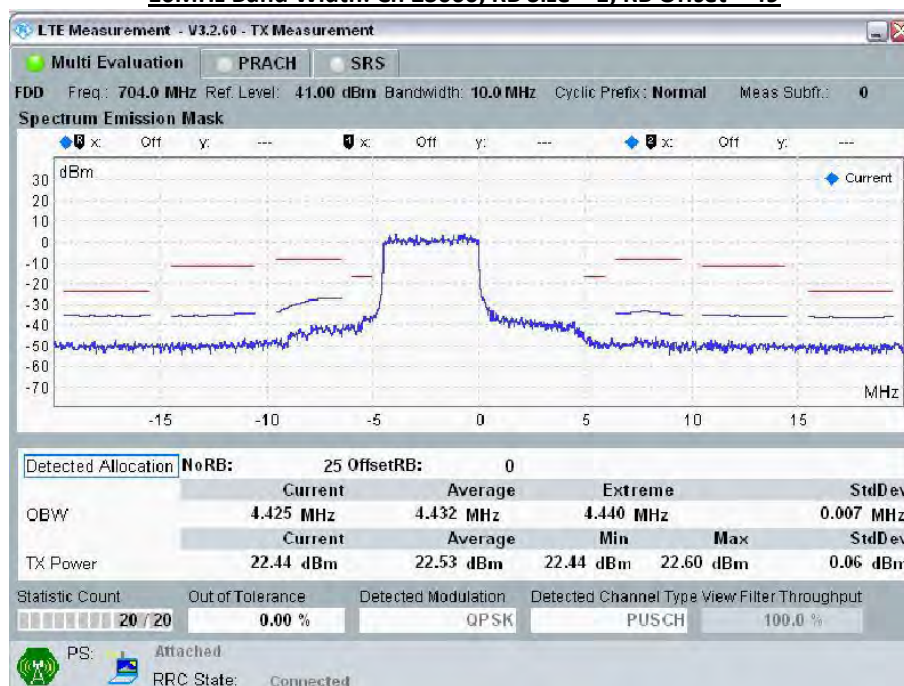
10MHz Band Width: Ch 23060, RB Size = 1; RB Offset = 0



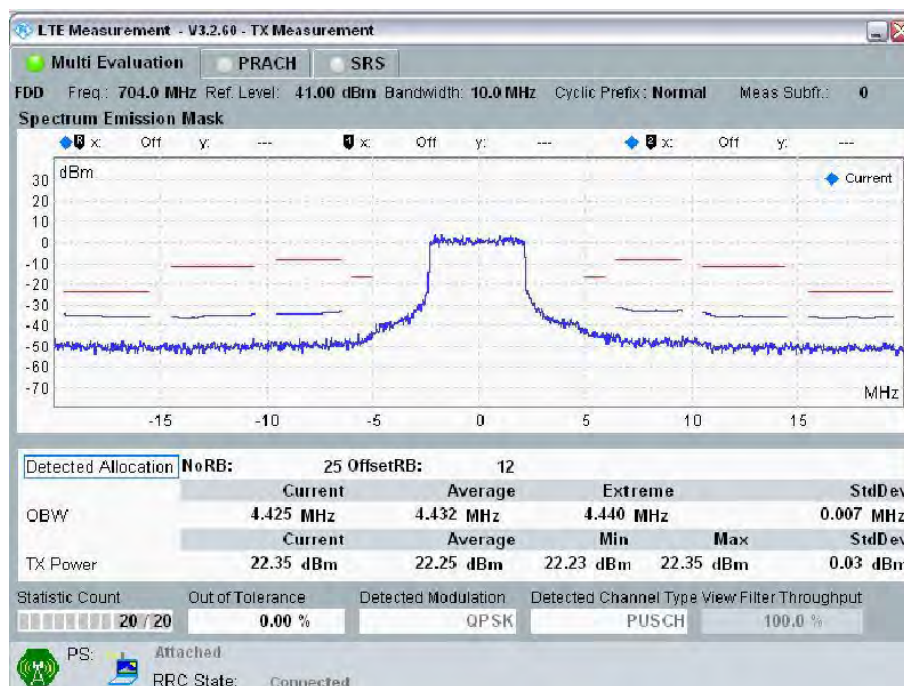
10MHz Band Width: Ch 23060, RB Size = 1; RB Offset = 24



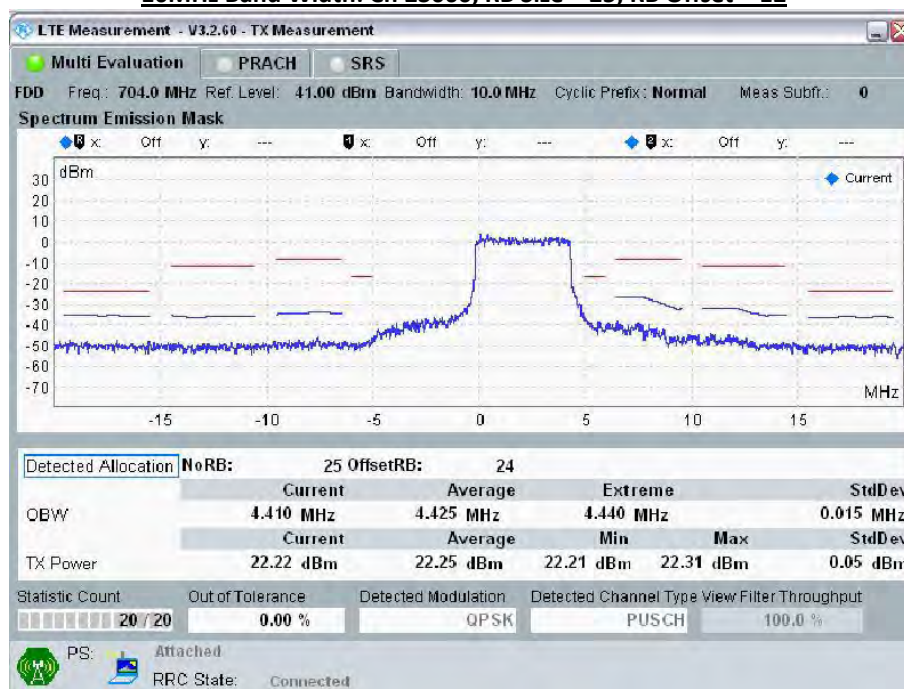
10MHz Band Width: Ch 23060, RB Size = 1; RB Offset = 49



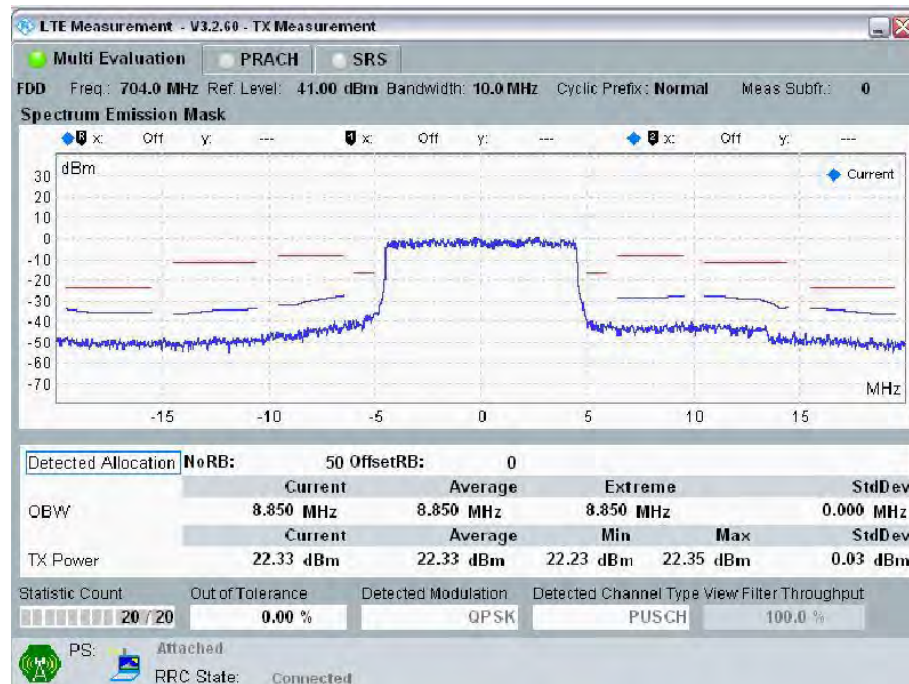
10MHz Band Width: Ch 23060, RB Size = 25; RB Offset = 0



10MHz Band Width: Ch 23060, RB Size = 25; RB Offset = 12



10MHz Band Width: Ch 23060, RB Size = 25; RB Offset = 24

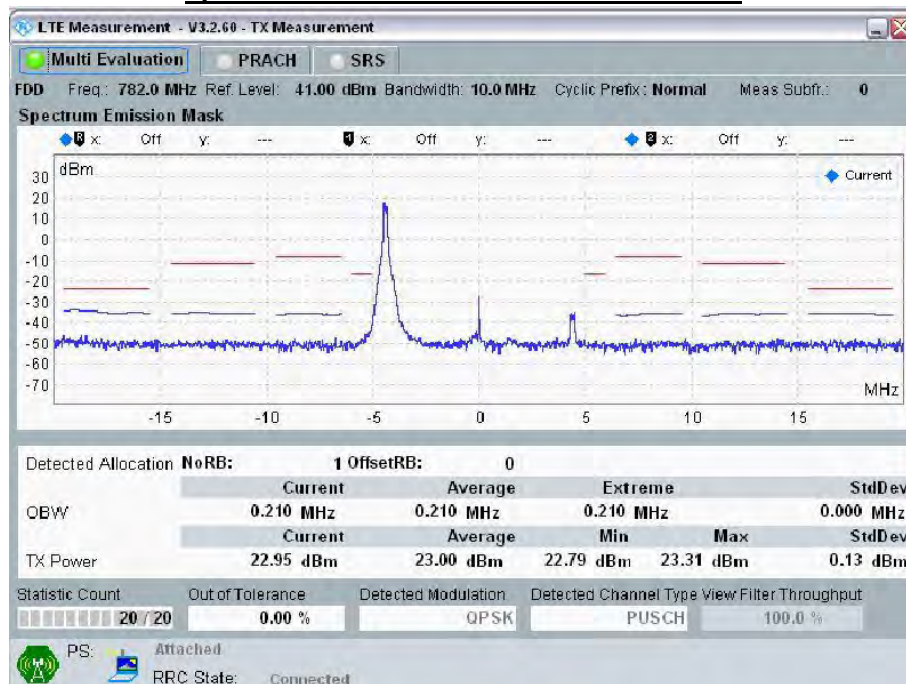
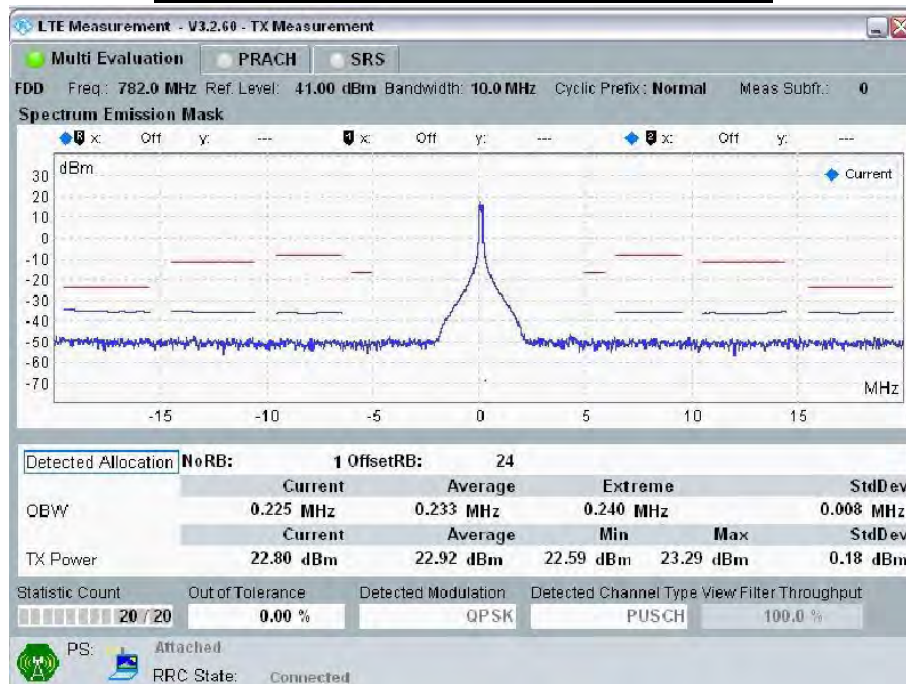


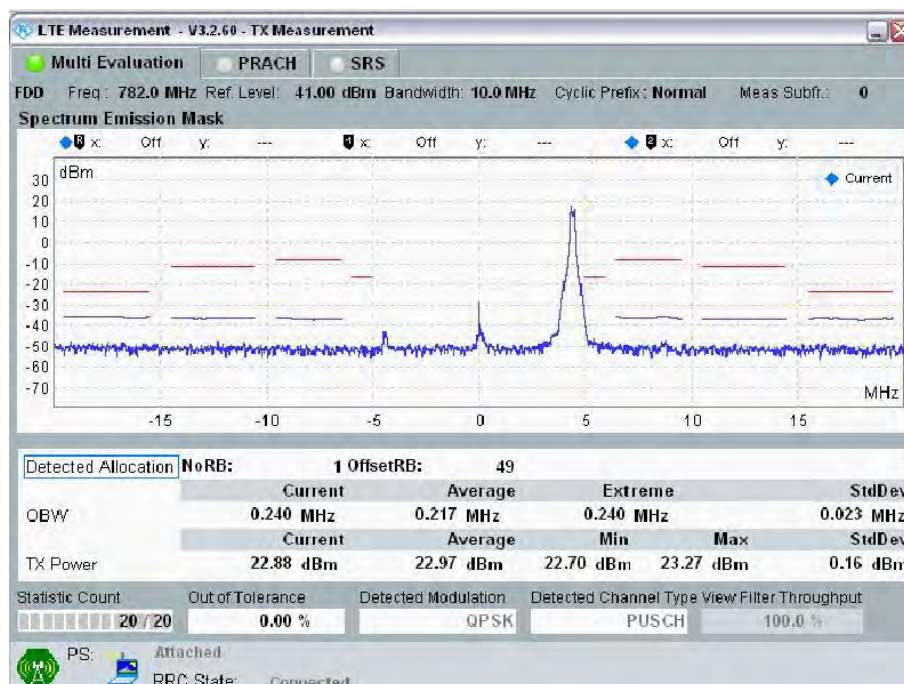
10MHz Band Width: Ch 23060, RB Size = 50; RB Offset = 0

11.2.6 LTE Band 13**Output power table**

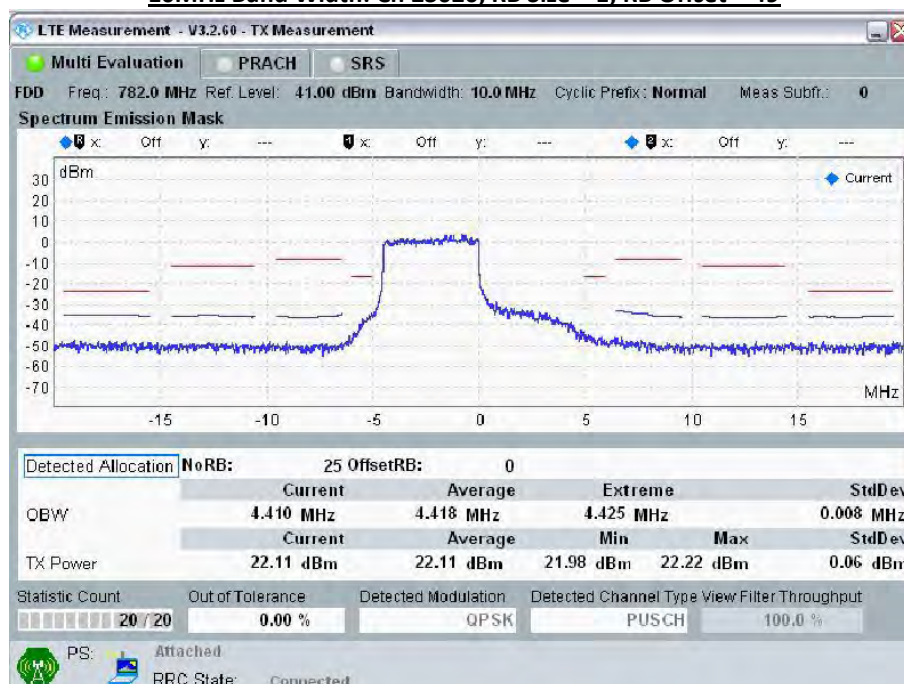
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Start	MPR	Average power(dBm)	
								W/o Power back-off	W/ Power back-off
13	10	23230	782.0	QPSK	1	0	0	22.9	17.5
					1	24	0	22.8	17.4
					1	49	0	22.8	17.3
					25	0	1	22.1	17.4
					25	12	1	22.0	17.3
					25	24	1	22.0	17.3
					50	0	1	22.0	17.4
				16QAM	1	0	1	22.1	17.4
					1	24	1	22.0	17.3
					1	49	1	22.0	17.3
					25	0	2	21.2	17.2
					25	12	2	21.2	17.3
					25	24	2	21.1	17.2
					50	0	2	20.9	17.3

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Start	MPR	Average power(dBm)	
								W/o Power back-off	W/ Power back-off
13	5	23205	779.5	QPSK	1	0	0	22.9	17.5
					1	12	0	22.8	17.4
					1	24	0	22.8	17.3
					12	0	1	22.1	17.3
					12	6	1	22.0	17.3
					12	11	1	22.0	17.2
					25	0	1	22.0	17.4
				16QAM	1	0	1	22.1	17.4
					1	12	1	22.0	17.3
					1	24	1	22.0	17.3
					12	0	2	21.2	17.2
					12	6	2	21.2	17.3
					12	11	2	21.1	17.2
					25	0	2	20.9	17.3
		23230	752.0	QPSK	1	0	0	22.8	17.3
					1	12	0	22.7	17.2
					1	24	0	22.7	17.1
					12	0	1	22.0	17.1
					12	6	1	21.9	17.1
					12	11	1	21.9	17.0
					25	0	1	21.9	17.2
				16QAM	1	0	1	22.0	17.2
					1	12	1	21.9	17.1
					1	24	1	21.9	17.1
					12	0	2	21.1	17.0
					12	6	2	21.1	17.1
					12	11	2	21.0	17.0
					25	0	2	20.8	17.1
		23255	784.5	QPSK	1	0	0	22.9	17.4
					1	12	0	22.8	17.3
					1	24	0	22.8	17.2
					12	0	1	22.0	17.2
					12	6	1	21.9	17.2
					12	11	1	21.9	17.1
					25	0	1	21.9	17.3
				16QAM	1	0	1	22.0	17.3
					1	12	1	21.9	17.2
					1	24	1	21.9	17.2
					12	0	2	21.1	17.1
					12	6	2	21.1	17.2
					12	11	2	21.0	17.1
					25	0	2	20.8	17.2

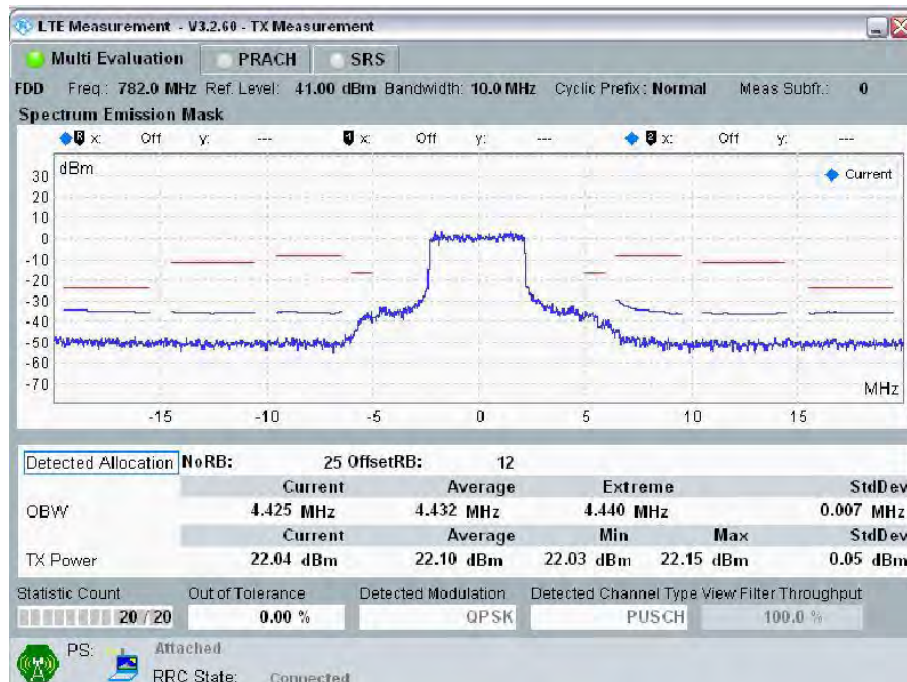
Spectrum Plots for the Test RB allocations**10MHz Band Width: Ch 23020, RB Size = 1; RB Offset = 0****10MHz Band Width: Ch 23020, RB Size = 1; RB Offset = 24**



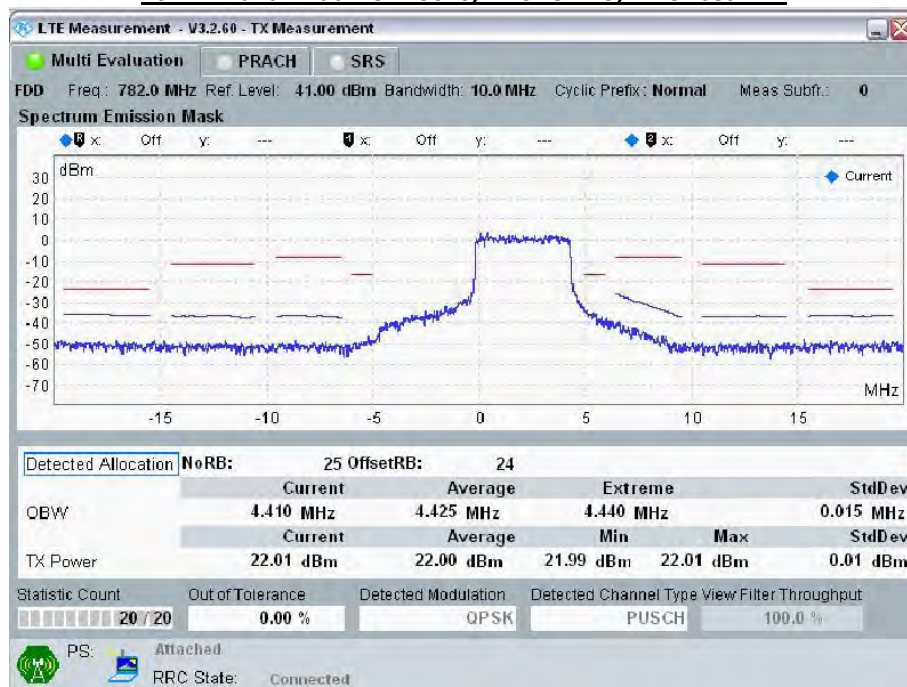
10MHz Band Width: Ch 23020, RB Size = 1; RB Offset = 49



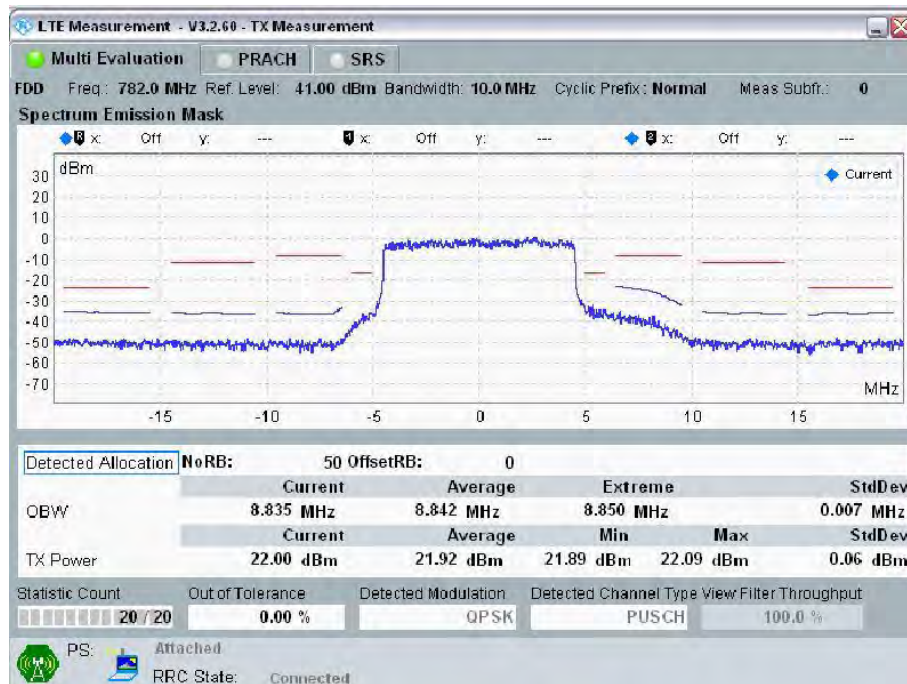
10MHz Band Width: Ch 23020, RB Size = 25; RB Offset = 0



10MHz Band Width: Ch 23020, RB Size = 25; RB Offset = 12



10MHz Band Width: Ch 23020, RB Size = 25; RB Offset = 24



10MHz Band Width: Ch 23020, RB Size = 50; RB Offset = 0

11.2.7 LTE Band 25

Output power table

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Start	MPR	Average power(dBm)	
								W/o Power back-off	W/ Power back-off
25	20	26140	1860.0	QPSK	1	0	0	23.5	17.2
					1	49	0	23.4	16.6
					1	99	0	23.4	16.7
					50	0	1	22.7	16.8
					50	24	1	22.4	16.5
					50	49	1	22.5	16.6
					100	0	1	22.4	16.7
				16QAM	1	0	1	22.5	17.4
					1	49	1	22.4	16.6
					1	99	1	22.4	16.6
					50	0	2	21.5	16.7
					50	24	2	21.4	16.4
					50	49	2	21.4	16.3
					100	0	2	21.5	16.6
		26365	1882.5	QPSK	1	0	0	23.4	16.9
					1	49	0	23.2	15.9
					1	99	0	23.2	15.8
					50	0	1	22.5	16.5
					50	24	1	22.3	16.0
					50	49	1	22.3	15.8
					100	0	1	22.2	16.0
				16QAM	1	0	1	22.5	17.0
					1	49	1	22.2	16.2
					1	99	1	22.3	16.0
					50	0	2	21.5	16.3
					50	24	2	21.3	16.0
					50	49	2	21.2	15.8
					100	0	2	21.2	16.0
		26590	1905.0	QPSK	1	0	0	23.1	17.0
					1	49	0	23.0	16.0
					1	99	0	23.0	16.4
					50	0	1	22.1	16.7
					50	24	1	22.0	16.0
					50	49	1	22.1	16.0
					100	0	1	22.0	16.3
				16QAM	1	0	1	22.2	16.6
					1	49	1	22.1	16.1
					1	99	1	22.0	16.4
					50	0	2	21.1	16.1
					50	24	2	21.0	16.0
					50	49	2	21.2	16.1
					100	0	2	21.1	16.2

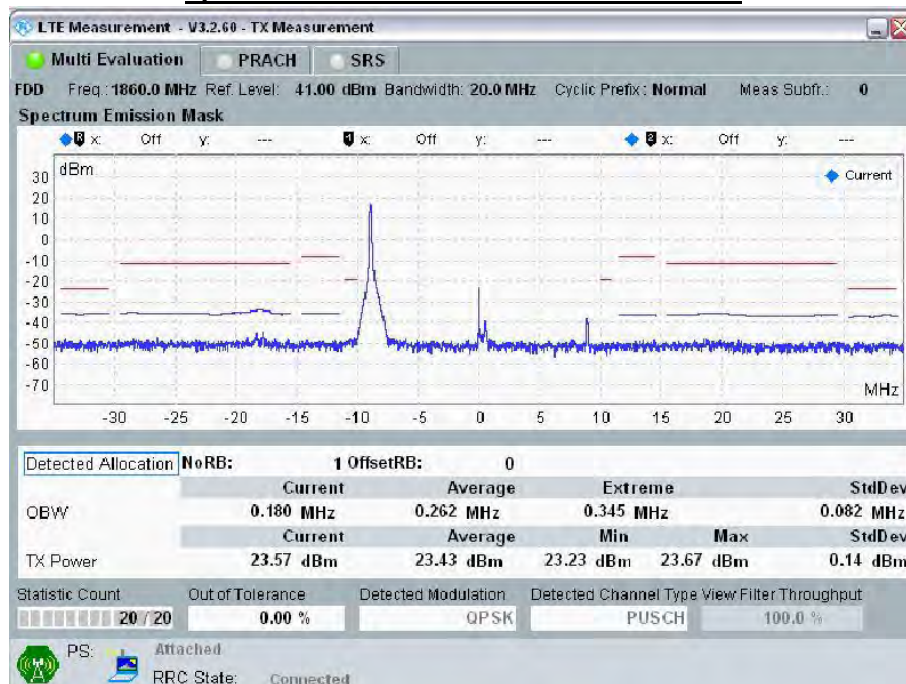
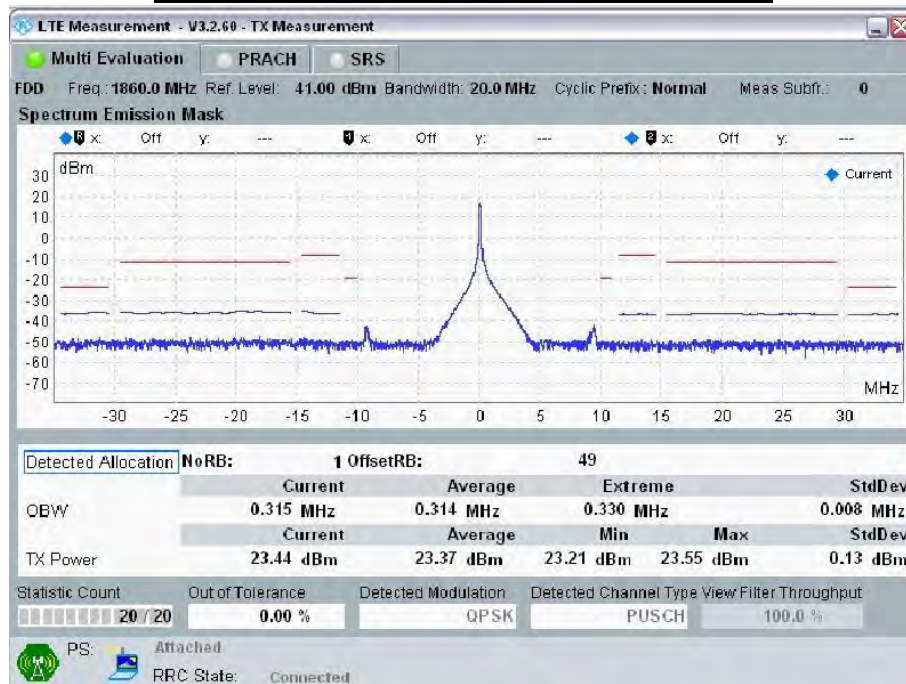
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Start	MPR	Average power(dBm)	
								W/o Power back-off	W/ Power back-off
25	15	26115	1857.5	QPSK	1	0	0	23.5	17.2
					1	37	0	23.4	16.6
					1	74	0	23.4	16.7
					36	0	1	22.7	16.8
					36	18	1	22.4	16.5
					36	35	1	22.5	16.6
					75	0	1	22.4	16.7
				16QAM	1	0	1	22.5	17.4
					1	37	1	22.4	16.6
					1	74	1	22.4	16.6
					36	0	2	21.5	16.7
					36	18	2	21.4	16.4
					36	35	2	21.4	16.3
					75	0	2	21.5	16.6
		26365	1882.5	QPSK	1	0	0	23.4	16.9
					1	37	0	23.2	15.9
					1	74	0	23.2	15.8
					36	0	1	22.5	16.5
					36	18	1	22.3	16.0
					36	35	1	22.3	15.8
					75	0	1	22.2	16.0
				16QAM	1	0	1	22.5	17.0
					1	37	1	22.2	16.2
					1	74	1	22.3	16.0
					36	0	2	21.5	16.3
					36	18	2	21.3	16.0
					36	35	2	21.2	15.8
					75	0	2	21.2	16.0
		26615	1907.5	QPSK	1	0	0	23.1	17.0
					1	37	0	23.0	16.0
					1	74	0	23.0	16.4
					36	0	1	22.1	16.7
					36	18	1	22.0	16.0
					36	35	1	22.1	16.0
					75	0	1	22.0	16.3
				16QAM	1	0	1	22.2	16.6
					1	37	1	22.1	16.1
					1	74	1	22.0	16.4
					36	0	2	21.1	16.1
					36	18	2	21.0	16.0
					36	35	2	21.2	16.1
					75	0	2	21.1	16.2

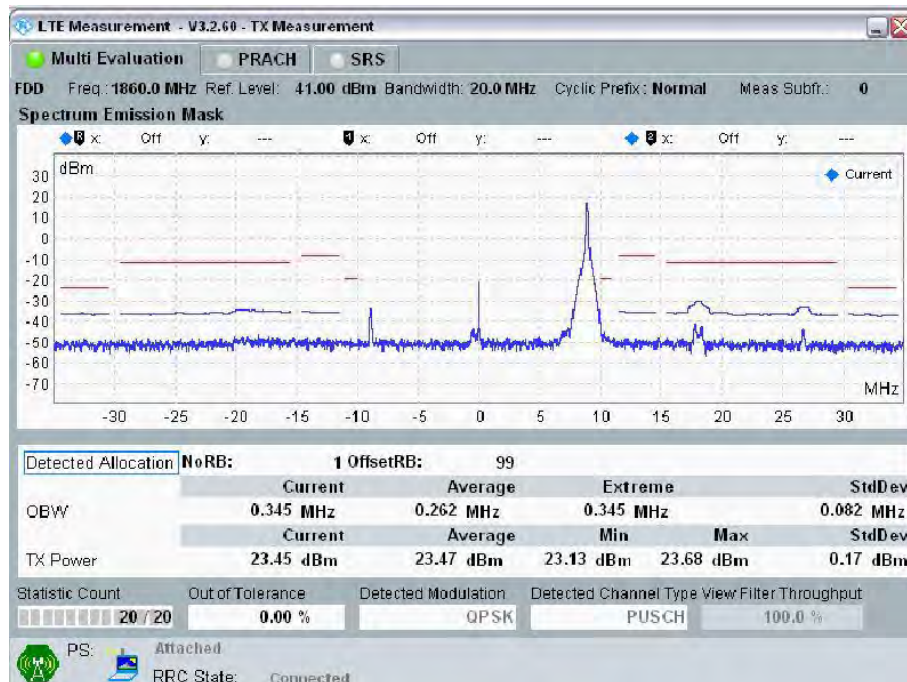
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Start	MPR	Average power(dBm)	
								W/o Power back-off	W/ Power back-off
25	10	26090	1855.0	QPSK	1	0	0	23.4	17.1
					1	24	0	23.3	16.5
					1	49	0	23.3	16.6
					25	0	1	22.6	16.7
					25	12	1	22.3	16.4
					25	24	1	22.4	16.5
					50	0	1	22.3	16.6
				16QAM	1	0	1	22.4	17.3
					1	24	1	22.3	16.5
					1	49	1	22.3	16.5
					25	0	2	21.4	16.6
					25	12	2	21.3	16.3
					25	24	2	21.3	16.2
					50	0	2	21.4	16.5
		26365	1882.5	QPSK	1	0	0	23.3	16.8
					1	24	0	23.1	15.8
					1	49	0	23.1	15.7
					25	0	1	22.4	16.4
					25	12	1	22.2	15.9
					25	24	1	22.2	15.7
					50	0	1	22.1	15.9
				16QAM	1	0	1	22.4	16.9
					1	24	1	22.1	16.1
					1	49	1	22.2	15.9
					25	0	2	21.4	16.2
					25	12	2	21.2	15.9
					25	24	2	21.1	15.7
					50	0	2	21.1	15.9
		26640	1910.0	QPSK	1	0	0	23.0	16.9
					1	24	0	22.9	15.9
					1	49	0	22.9	16.3
					25	0	1	22.0	16.6
					25	12	1	21.9	15.9
					25	24	1	22.0	15.9
					50	0	1	21.9	16.2
				16QAM	1	0	1	22.1	16.5
					1	24	1	22.0	16.0
					1	49	1	21.9	16.3
					25	0	2	21.0	16.0
					25	12	2	20.9	15.9
					25	24	2	21.1	16.0
					50	0	2	21.0	16.1

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Start	MPR	Average power(dBm)	
								W/o Power back-off	W/ Power back-off
25	5	26065	1852.5	QPSK	1	0	0	23.4	17.0
					1	12	0	23.3	16.4
					1	24	0	23.3	16.6
					12	0	1	22.6	16.7
					12	6	1	22.3	16.4
					12	11	1	22.4	16.5
					25	0	1	22.3	16.6
				16QAM	1	0	1	22.4	17.3
					1	12	1	22.3	16.4
					1	24	1	22.3	16.5
					12	0	2	21.4	16.6
					12	6	2	21.3	16.3
					12	11	2	21.3	16.2
					25	0	2	21.4	16.5
		26365	1882.5	QPSK	1	0	0	23.3	16.7
					1	12	0	23.1	15.8
					1	24	0	23.1	15.7
					12	0	1	22.4	16.4
					12	6	1	22.2	15.8
					12	11	1	22.2	15.6
					25	0	1	22.1	15.9
				16QAM	1	0	1	22.4	16.9
					1	12	1	22.1	16.1
					1	24	1	22.2	15.8
					12	0	2	21.4	16.1
					12	6	2	21.2	15.9
					12	11	2	21.1	15.6
					25	0	2	21.1	15.9
		26665	1912.5	QPSK	1	0	0	22.9	16.9
					1	12	0	22.9	15.9
					1	24	0	22.9	16.3
					12	0	1	22.0	16.6
					12	6	1	21.9	15.8
					12	11	1	22.0	15.9
					25	0	1	21.9	16.1
				16QAM	1	0	1	22.0	16.4
					1	12	1	22.0	16.0
					1	24	1	21.9	16.2
					12	0	2	21.0	16.0
					12	6	2	20.9	15.9
					12	11	2	21.1	15.9
					25	0	2	21.0	16.0

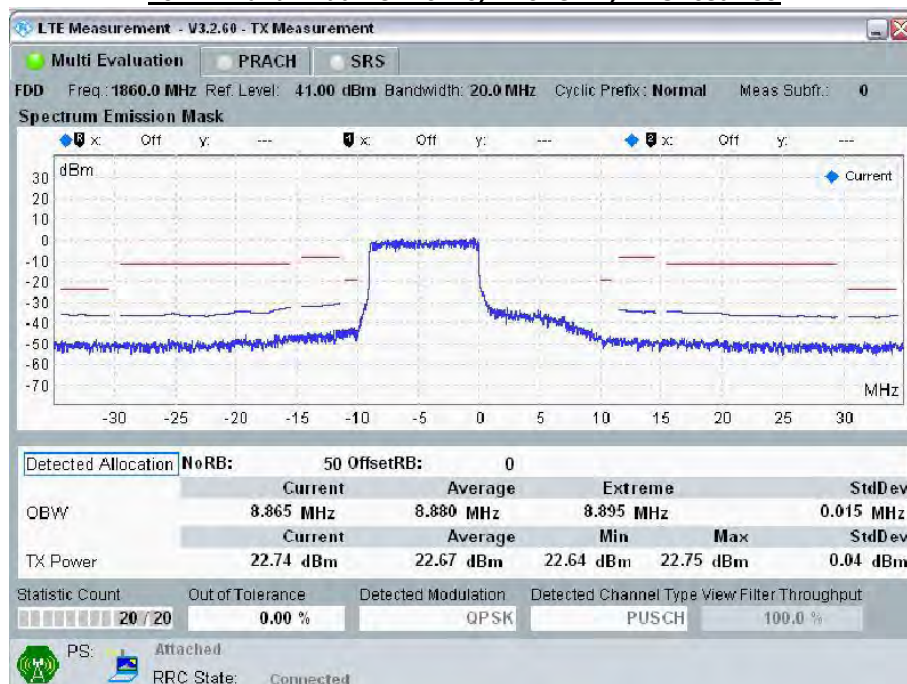
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Start	MPR	Average power(dBm)	
								W/o Power back-off	W/ Power back-off
25	3	26055	1851.5	QPSK	1	0	0	23.3	17.0
					1	7	0	23.2	16.4
					1	14	0	23.2	16.5
					8	0	1	22.5	16.6
					8	4	1	22.2	16.3
					8	7	1	22.3	16.4
					15	0	1	22.2	16.5
				16QAM	1	0	1	22.3	17.2
					1	7	1	22.2	16.4
					1	14	1	22.2	16.4
					8	0	2	21.3	16.5
					8	4	2	21.2	16.2
					8	7	2	21.2	16.1
					15	0	2	21.3	16.4
		26365	1882.5	QPSK	1	0	0	23.2	16.7
					1	7	0	23.0	15.7
					1	14	0	23.0	15.6
					8	0	1	22.3	16.3
					8	4	1	22.1	15.8
					8	7	1	22.1	15.6
					15	0	1	22.0	15.8
				16QAM	1	0	1	22.3	16.8
					1	7	1	22.0	16.0
					1	14	1	22.1	15.8
					8	0	2	21.3	16.1
					8	4	2	21.1	15.8
					8	7	2	21.0	15.6
					15	0	2	21.0	15.8
		26675	1913.5	QPSK	1	0	0	22.9	16.8
					1	7	0	22.8	15.8
					1	14	0	22.8	16.2
					8	0	1	21.9	16.5
					8	4	1	21.8	15.8
					8	7	1	21.9	15.8
					15	0	1	21.8	16.1
				16QAM	1	0	1	22.0	16.4
					1	7	1	21.9	15.9
					1	14	1	21.8	16.2
					8	0	2	20.9	15.9
					8	4	2	20.8	15.8
					8	7	2	21.0	15.9
					15	0	2	20.9	16.0

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Start	MPR	Average power(dBm)	
								W/o Power back-off	W/ Power back-off
25	1.4	26047	1850.7	QPSK	1	0	0	23.3	17.0
					1	2	0	23.2	16.4
					1	5	0	23.2	16.5
					3	0	1	22.5	16.6
					3	1	1	22.2	16.3
					3	2	1	22.3	16.4
					6	0	1	22.2	16.5
				16QAM	1	0	1	22.3	17.2
					1	2	1	22.2	16.4
					1	5	1	22.2	16.4
					3	0	2	21.3	16.5
					3	1	2	21.2	16.2
					3	2	2	21.2	16.1
					6	0	2	21.3	16.4
		26365	1882.5	QPSK	1	0	0	23.2	16.7
					1	2	0	23.0	15.7
					1	5	0	23.0	15.6
					3	0	1	22.3	16.3
					3	1	1	22.1	15.8
					3	2	1	22.1	15.6
					6	0	1	22.0	15.8
				16QAM	1	0	1	22.3	16.8
					1	2	1	22.0	16.0
					1	5	1	22.1	15.8
					3	0	2	21.3	16.1
					3	1	2	21.1	15.8
					3	2	2	21.0	15.6
					6	0	2	21.0	15.8
		26683	1914.3	QPSK	1	0	0	22.9	16.8
					1	2	0	22.8	15.8
					1	5	0	22.8	16.2
					3	0	1	21.9	16.5
					3	1	1	21.8	15.8
					3	2	1	21.9	15.8
					6	0	1	21.8	16.1
				16QAM	1	0	1	22.0	16.4
					1	2	1	21.9	15.9
					1	5	1	21.8	16.2
					3	0	2	20.9	15.9
					3	1	2	20.8	15.8
					3	2	2	21.0	15.9
					6	0	2	20.9	16.0

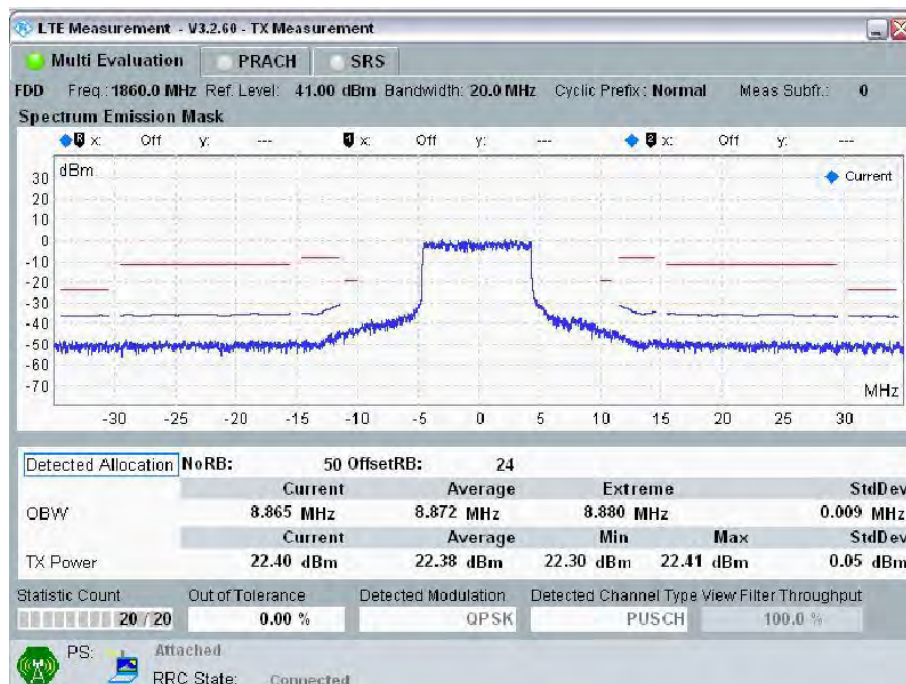
Spectrum Plots for the Test RB allocations**20MHz Band Width: Ch 26140, RB Size = 1; RB Offset = 0****20MHz Band Width: Ch 26140, RB Size = 1; RB Offset = 49**



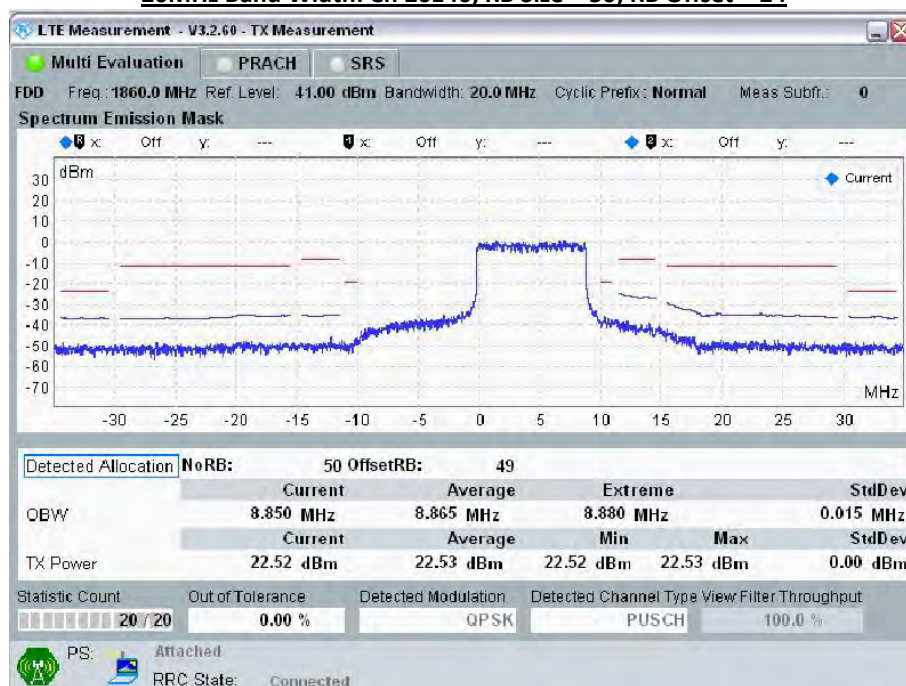
20MHz Band Width: Ch 26140, RB Size = 1; RB Offset = 99



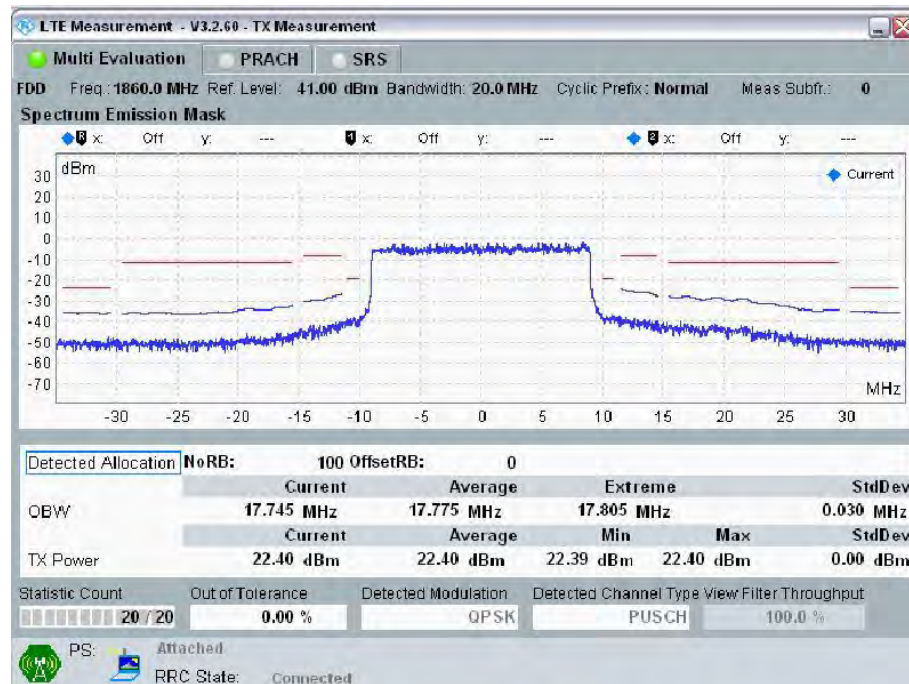
20MHz Band Width: Ch 26140, RB Size = 50; RB Offset = 0



20MHz Band Width: Ch 26140, RB Size = 50; RB Offset = 24



20MHz Band Width: Ch 26140, RB Size = 50; RB Offset = 49



20MHz Band Width: Ch 26140, RB Size = 100; RB Offset = 0

11.2.8 LTE Band 26

Output power table

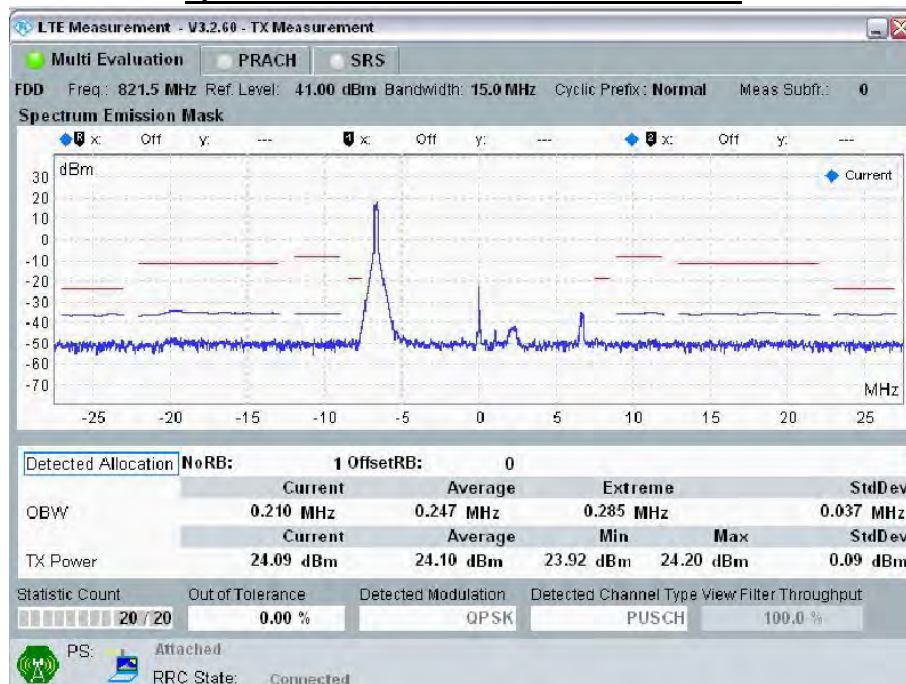
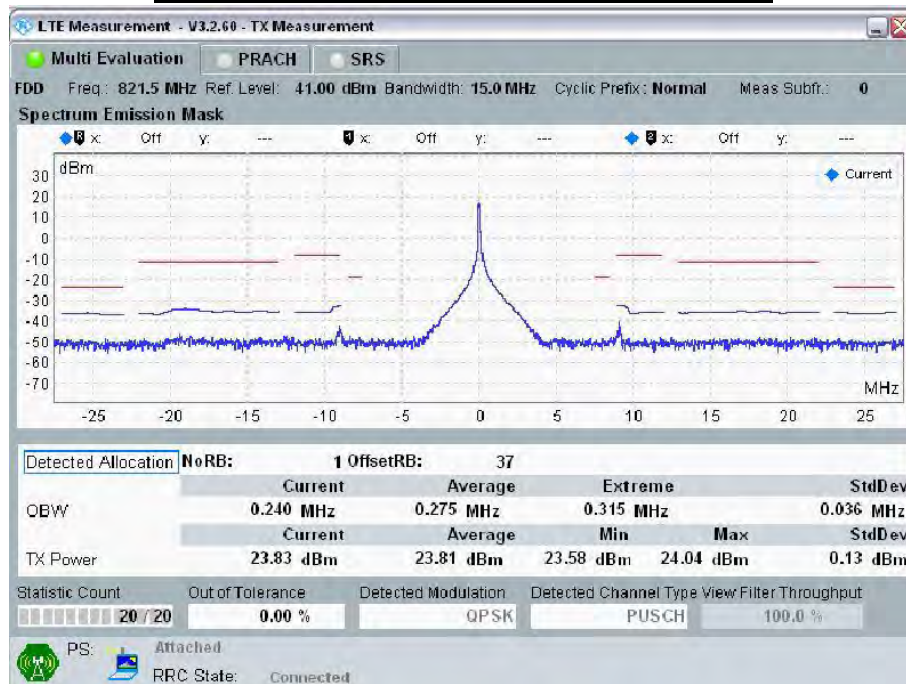
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Start	MPR	Average power(dBm)	
								W/o Power back-off	W/ Power back-off
26	15	26765	821.5	QPSK	1	0	0	24.0	19.7
					1	37	0	23.8	19.6
					1	74	0	23.7	19.4
					36	0	1	23.0	19.7
					36	18	1	22.9	19.6
					36	35	1	22.8	19.5
					75	0	1	22.8	19.6
				16QAM	1	0	1	23.0	19.6
					1	37	1	22.8	19.5
					1	74	1	22.7	19.3
					36	0	2	22.1	19.6
					36	18	2	21.9	19.5
					36	35	2	21.7	19.4
					75	0	2	21.8	19.5
		26865	831.0	QPSK	1	0	0	23.9	19.6
					1	37	0	23.8	19.5
					1	74	0	23.7	19.6
					36	0	1	22.9	19.5
					36	18	1	22.8	19.5
					36	35	1	22.8	19.5
					75	0	1	22.7	19.6
				16QAM	1	0	1	23.1	19.5
					1	37	1	22.9	19.4
					1	74	1	22.7	19.5
					36	0	2	21.9	19.4
					36	18	2	21.8	19.4
					36	35	2	21.7	19.4
					75	0	2	21.8	19.5
		26965	841.5	QPSK	1	0	0	24.0	19.6
					1	37	0	23.9	19.4
					1	74	0	23.7	20.2
					36	0	1	23.1	19.6
					36	18	1	22.9	19.8
					36	35	1	22.8	20.0
					75	0	1	22.8	20.0
				16QAM	1	0	1	23.0	19.5
					1	37	1	22.9	19.3
					1	74	1	22.7	20.1
					36	0	2	22.0	19.5
					36	18	2	22.0	19.7
					36	35	2	21.7	19.9
					75	0	2	21.8	19.9

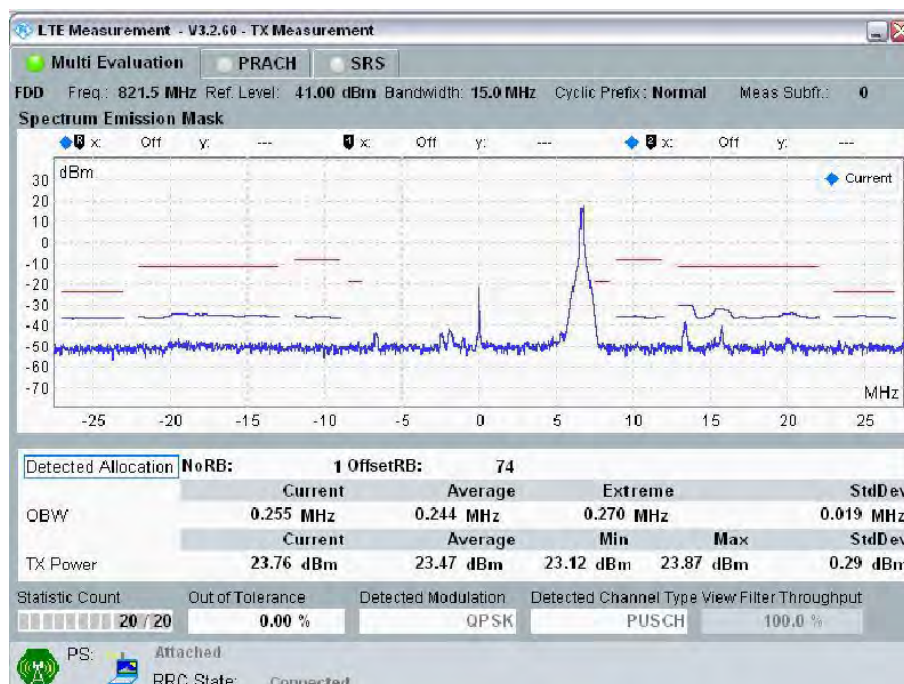
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Start	MPR	Average power(dBm)	
								W/o Power back-off	W/ Power back-off
26	10	26740	819.0	QPSK	1	0	0	23.9	19.7
					1	24	0	23.7	19.6
					1	49	0	23.6	19.4
					25	0	1	22.9	19.7
					25	12	1	22.8	19.6
					25	24	1	22.7	19.5
					50	0	1	22.7	19.6
				16QAM	1	0	1	22.9	19.6
					1	24	1	22.7	19.5
					1	49	1	22.6	19.3
					25	0	2	22.0	19.6
					25	12	2	21.8	19.5
					25	24	2	21.6	19.4
					50	0	2	21.7	19.5
		26865	831.0	QPSK	1	0	0	23.8	19.6
					1	24	0	23.7	19.5
					1	49	0	23.6	19.6
					25	0	1	22.8	19.5
					25	12	1	22.7	19.5
					25	24	1	22.7	19.5
					50	0	1	22.6	19.6
				16QAM	1	0	1	23.0	19.5
					1	24	1	22.8	19.4
					1	49	1	22.6	19.5
					25	0	2	21.8	19.4
					25	12	2	21.7	19.4
					25	24	2	21.6	19.4
					50	0	2	21.7	19.5
		26990	844.0	QPSK	1	0	0	23.9	19.6
					1	24	0	23.8	19.4
					1	49	0	23.6	20.2
					25	0	1	23.0	19.6
					25	12	1	22.8	19.8
					25	24	1	22.7	20.0
					50	0	1	22.7	20.0
				16QAM	1	0	1	22.9	19.5
					1	24	1	22.8	19.3
					1	49	1	22.6	20.1
					25	0	2	21.9	19.5
					25	12	2	21.9	19.7
					25	24	2	21.6	19.9
					50	0	2	21.7	19.9

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Start	MPR	Average power(dBm)	
								W/o Power back-off	W/ Power back-off
26	5	26715	816.5	QPSK	1	0	0	23.9	19.6
					1	12	0	23.7	19.5
					1	24	0	23.6	19.3
					12	0	1	22.9	19.6
					12	6	1	22.8	19.5
					12	11	1	22.7	19.4
					25	0	1	22.7	19.5
				16QAM	1	0	1	22.9	19.5
					1	12	1	22.7	19.4
					1	24	1	22.6	19.2
					12	0	2	22.0	19.5
					12	6	2	21.8	19.4
					12	11	2	21.6	19.3
					25	0	2	21.7	19.4
		26865	831.0	QPSK	1	0	0	23.8	19.5
					1	12	0	23.7	19.4
					1	24	0	23.6	19.5
					12	0	1	22.8	19.4
					12	6	1	22.7	19.4
					12	11	1	22.7	19.4
					25	0	1	22.6	19.5
				16QAM	1	0	1	23.0	19.4
					1	12	1	22.8	19.3
					1	24	1	22.6	19.4
					12	0	2	21.8	19.3
					12	6	2	21.7	19.3
					12	11	2	21.6	19.3
					25	0	2	21.7	19.4
		26965	841.5	QPSK	1	0	0	23.9	19.5
					1	12	0	23.8	19.3
					1	24	0	23.6	20.1
					12	0	1	23.0	19.5
					12	6	1	22.8	19.7
					12	11	1	22.7	19.9
					25	0	1	22.7	19.9
				16QAM	1	0	1	22.9	19.4
					1	12	1	22.8	19.2
					1	24	1	22.6	20.0
					12	0	2	21.9	19.4
					12	6	2	21.9	19.6
					12	11	2	21.6	19.8
					25	0	2	21.7	19.8

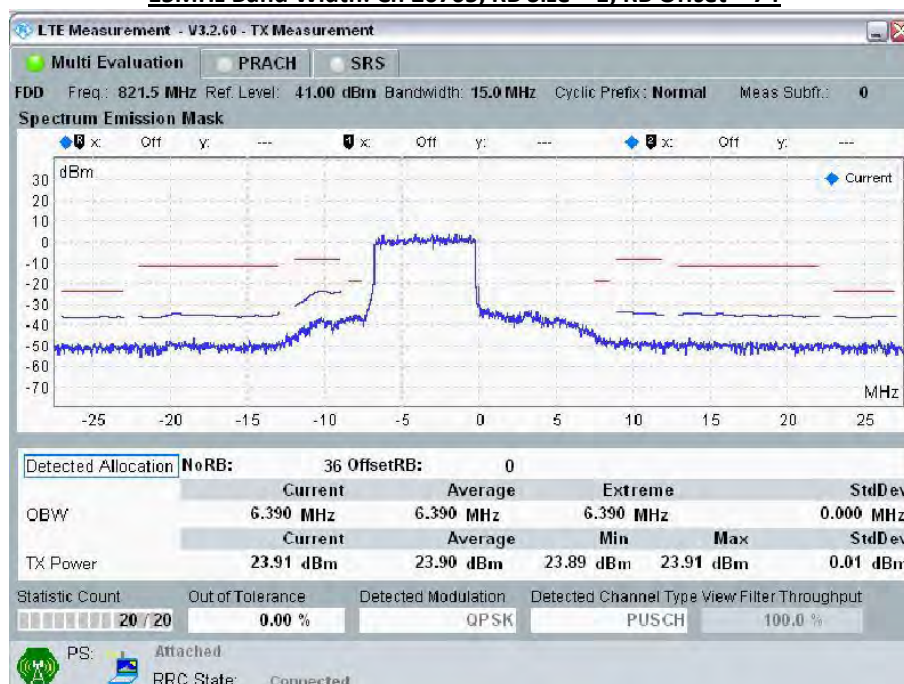
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Start	MPR	Average power(dBm)	
								W/o Power back-off	W/ Power back-off
26	3	26705	815.5	QPSK	1	0	0	23.9	19.6
					1	7	0	23.7	19.5
					1	14	0	23.6	19.3
					8	0	1	22.9	19.6
					8	4	1	22.8	19.5
					8	7	1	22.7	19.4
					15	0	1	22.7	19.5
				16QAM	1	0	1	22.9	19.5
					1	7	1	22.7	19.4
					1	14	1	22.6	19.2
					8	0	2	22.0	19.5
					8	4	2	21.8	19.4
					8	7	2	21.6	19.3
					15	0	2	21.7	19.4
		26865	831.0	QPSK	1	0	0	23.7	19.5
					1	7	0	23.7	19.4
					1	14	0	23.6	19.5
					8	0	1	22.8	19.4
					8	4	1	22.7	19.4
					8	7	1	22.7	19.4
					15	0	1	22.6	19.5
				16QAM	1	0	1	22.9	19.4
					1	7	1	22.8	19.3
					1	14	1	22.6	19.4
					8	0	2	21.8	19.3
					8	4	2	21.7	19.3
					8	7	2	21.6	19.3
					15	0	2	21.7	19.4
		27025	847.5	QPSK	1	0	0	23.9	19.5
					1	7	0	23.8	19.3
					1	14	0	23.6	20.1
					8	0	1	23.0	19.5
					8	4	1	22.8	19.7
					8	7	1	22.7	19.9
					15	0	1	22.7	19.9
				16QAM	1	0	1	22.9	19.4
					1	7	1	22.8	19.2
					1	14	1	22.6	20.0
					8	0	2	21.9	19.4
					8	4	2	21.9	19.6
					8	7	2	21.6	19.8
					15	0	2	21.7	19.8

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Start	MPR	Average power(dBm)	
								W/o Power back-off	W/ Power back-off
26	1.4	26697	814.7	QPSK	1	0	0	23.8	19.5
					1	2	0	23.6	19.4
					1	5	0	23.5	19.2
					3	0	1	22.8	19.5
					3	1	1	22.7	19.4
					3	2	1	22.6	19.3
					6	0	1	22.6	19.4
				16QAM	1	0	1	22.8	19.4
					1	2	1	22.6	19.3
					1	5	1	22.5	19.1
					3	0	2	21.9	19.4
					3	1	2	21.7	19.3
					3	2	2	21.5	19.2
					6	0	2	21.6	19.3
		26865	831.0	QPSK	1	0	0	23.7	19.4
					1	2	0	23.6	19.3
					1	5	0	23.5	19.4
					3	0	1	22.7	19.3
					3	1	1	22.6	19.3
					3	2	1	22.6	19.3
					6	0	1	22.5	19.4
				16QAM	1	0	1	22.9	19.3
					1	2	1	22.7	19.2
					1	5	1	22.5	19.3
					3	0	2	21.7	19.2
					3	1	2	21.6	19.2
					3	2	2	21.5	19.2
					6	0	2	21.6	19.3
		27033	848.3	QPSK	1	0	0	23.8	19.4
					1	2	0	23.7	19.2
					1	5	0	23.5	20.0
					3	0	1	22.9	19.4
					3	1	1	22.7	19.6
					3	2	1	22.6	19.8
					6	0	1	22.6	19.8
				16QAM	1	0	1	22.8	19.3
					1	2	1	22.7	19.1
					1	5	1	22.5	19.9
					3	0	2	21.8	19.3
					3	1	2	21.8	19.5
					3	2	2	21.5	19.7
					6	0	2	21.6	19.7

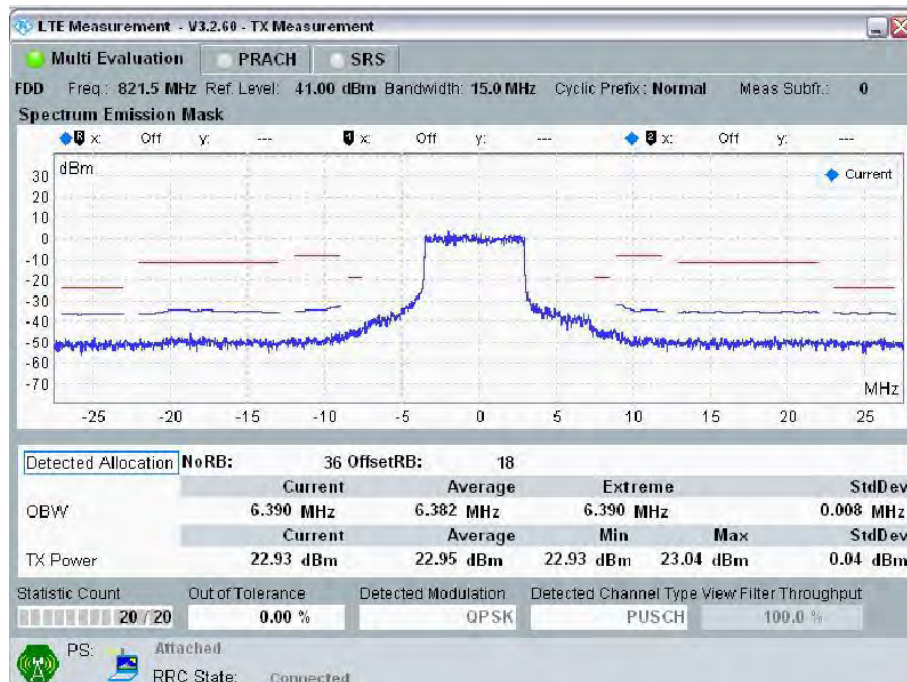
Spectrum Plots for the Test RB allocations**15MHz Band Width: Ch 26765, RB Size = 1; RB Offset = 0****15MHz Band Width: Ch 26765, RB Size = 1; RB Offset =37**



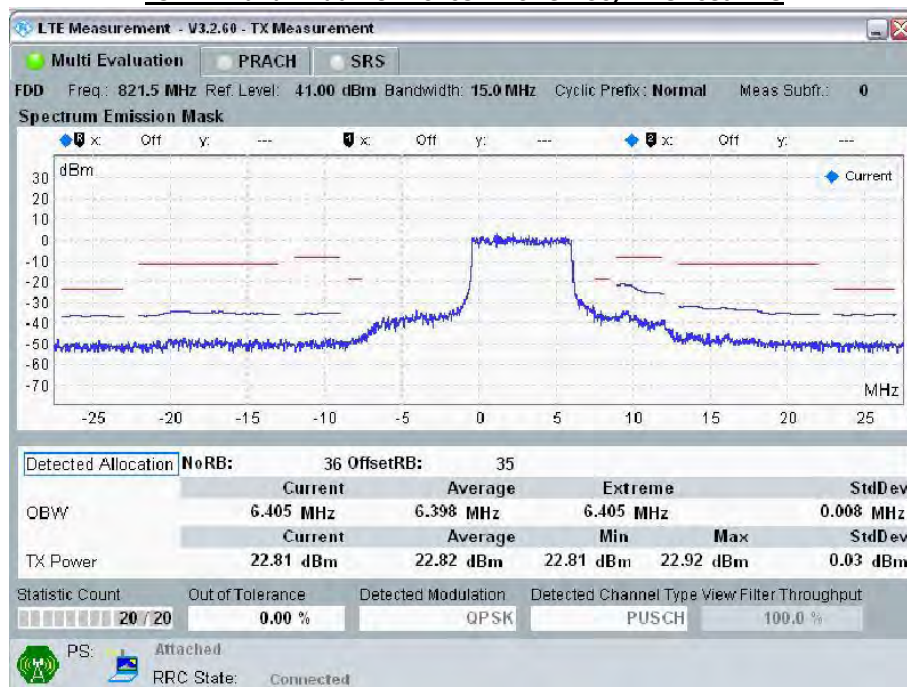
15MHz Band Width: Ch 26765, RB Size = 1; RB Offset = 74



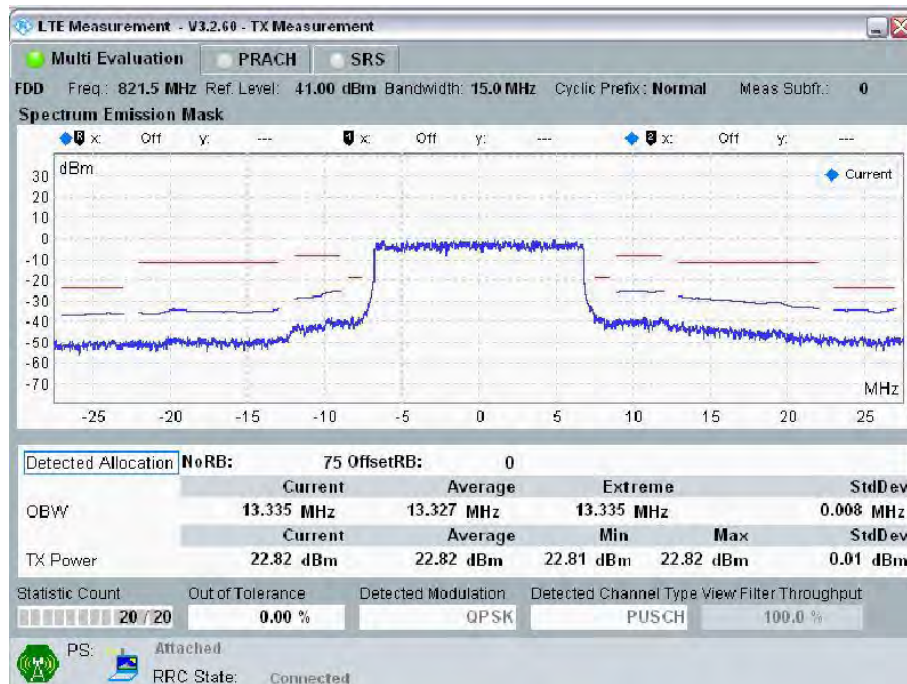
15MHz Band Width: Ch 26765, RB Size = 36; RB Offset = 0



15MHz Band Width: Ch 26765 RB Size = 36; RB Offset = 18



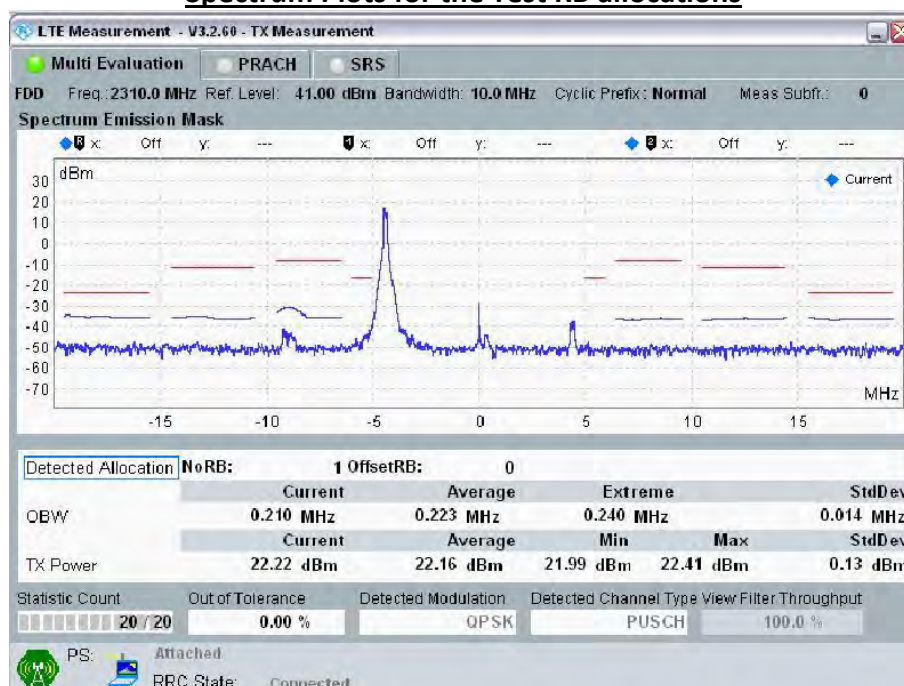
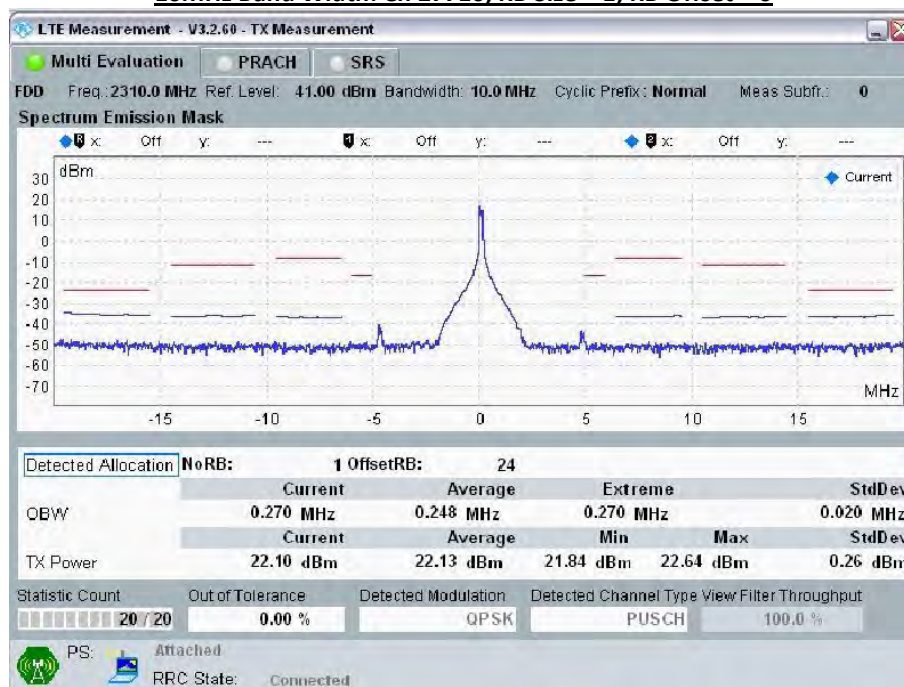
15MHz Band Width: Ch 26765, RB Size = 36; RB Offset = 35

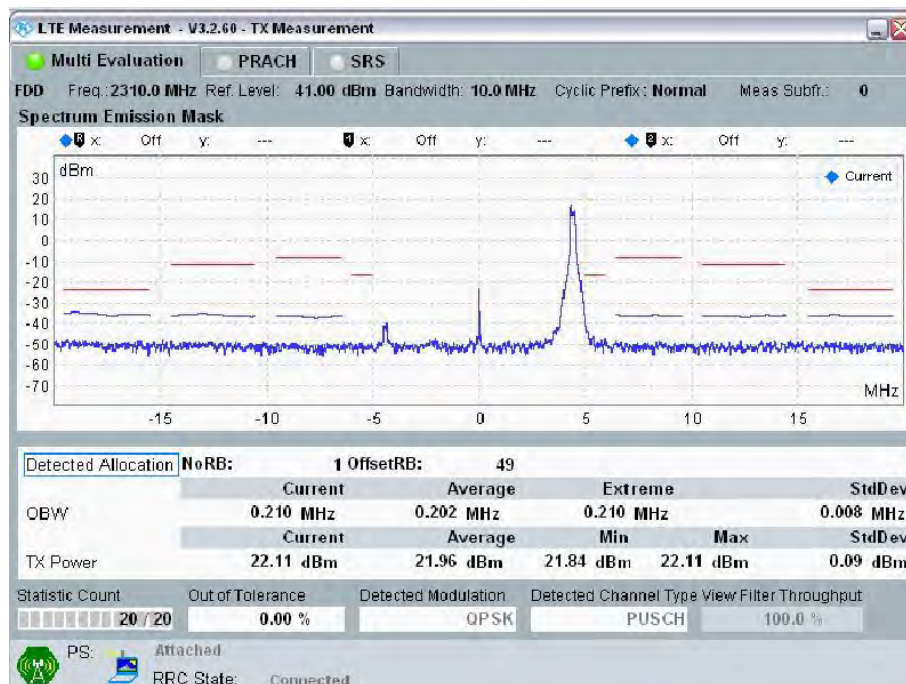


11.2.9 LTE Band 30**Output power table**

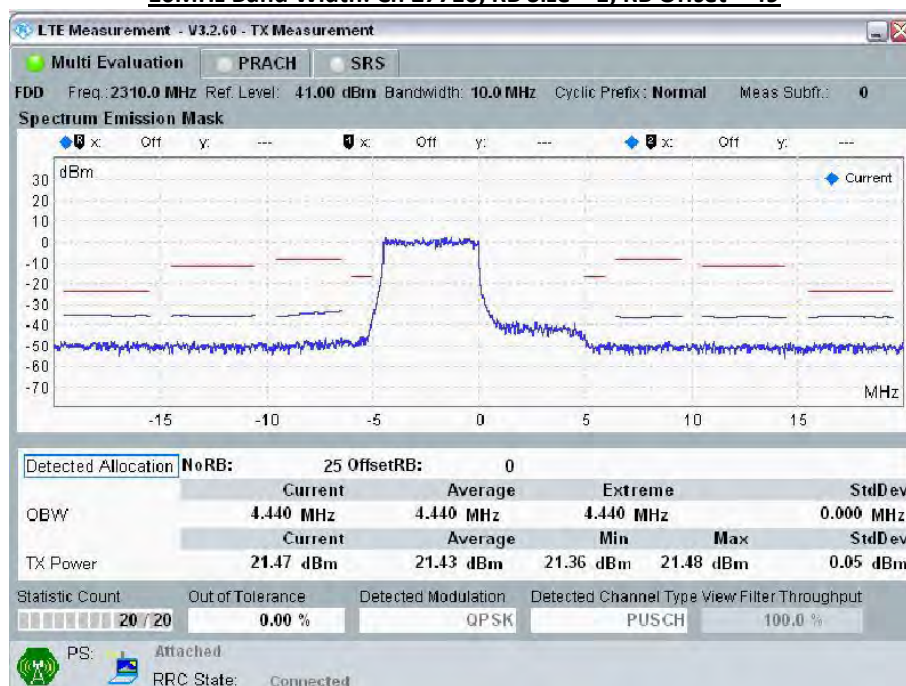
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Start	MPR	Average power(dBm)	
								W/o Power back-off	W/ Power back-off
30	10	27710	2310.0	QPSK	1	0	0	22.2	15.8
					1	24	0	22.1	15.8
					1	49	0	22.1	15.6
					25	0	1	21.4	15.6
					25	12	1	21.2	15.5
					25	24	1	21.2	15.6
					50	0	1	21.1	15.5
				16QAM	1	0	1	21.3	15.7
					1	24	1	21.1	15.7
					1	49	1	21.1	15.4
					25	0	2	20.3	15.4
					25	12	2	20.2	15.3
					25	24	2	20.2	15.3
					50	0	2	20.1	15.3

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Start	MPR	Average power(dBm)	
								W/o Power back-off	W/ Power back-off
30	5	27685	2307.5	QPSK	1	0	0	22.2	15.8
					1	12	0	22.1	15.8
					1	24	0	22.1	15.6
					12	0	1	21.4	15.6
					12	6	1	21.2	15.5
					12	11	1	21.2	15.6
					25	0	1	21.1	15.5
				16QAM	1	0	1	21.3	15.7
					1	12	1	21.1	15.7
					1	24	1	21.1	15.4
					12	0	2	20.3	15.4
					12	6	2	20.2	15.3
					12	11	2	20.2	15.3
					25	0	2	20.1	15.2
		27710	2310.0	QPSK	1	0	0	22.1	15.7
					1	12	0	22.0	15.7
					1	24	0	22.0	15.5
					12	0	1	21.3	15.5
					12	6	1	21.1	15.4
					12	11	1	21.1	15.5
					25	0	1	21.0	15.4
				16QAM	1	0	1	21.2	15.6
					1	12	1	21.0	15.6
					1	24	1	21.0	15.3
					12	0	2	20.2	15.3
					12	6	2	20.1	15.2
					12	11	2	20.1	15.2
					25	0	2	20.0	15.2
		27735	2312.5	QPSK	1	0	0	22.2	15.7
					1	12	0	22.1	15.7
					1	24	0	22.1	15.5
					12	0	1	21.3	15.5
					12	6	1	21.1	15.4
					12	11	1	21.1	15.5
					25	0	1	21.0	15.4
				16QAM	1	0	1	21.2	15.6
					1	12	1	21.0	15.6
					1	24	1	21.0	15.3
					12	0	2	20.2	15.3
					12	6	2	20.1	15.2
					12	11	2	20.1	15.2
					25	0	2	20.0	15.1

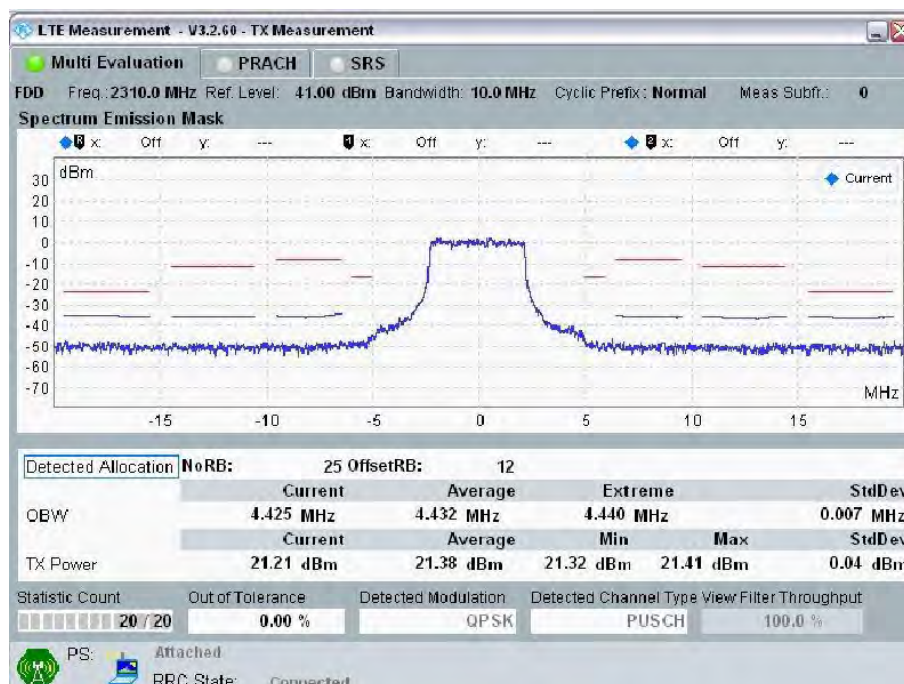
Spectrum Plots for the Test RB allocations**10MHz Band Width: Ch 27710, RB Size = 1; RB Offset = 0****10MHz Band Width: Ch 27710, RB Size = 1; RB Offset =24**



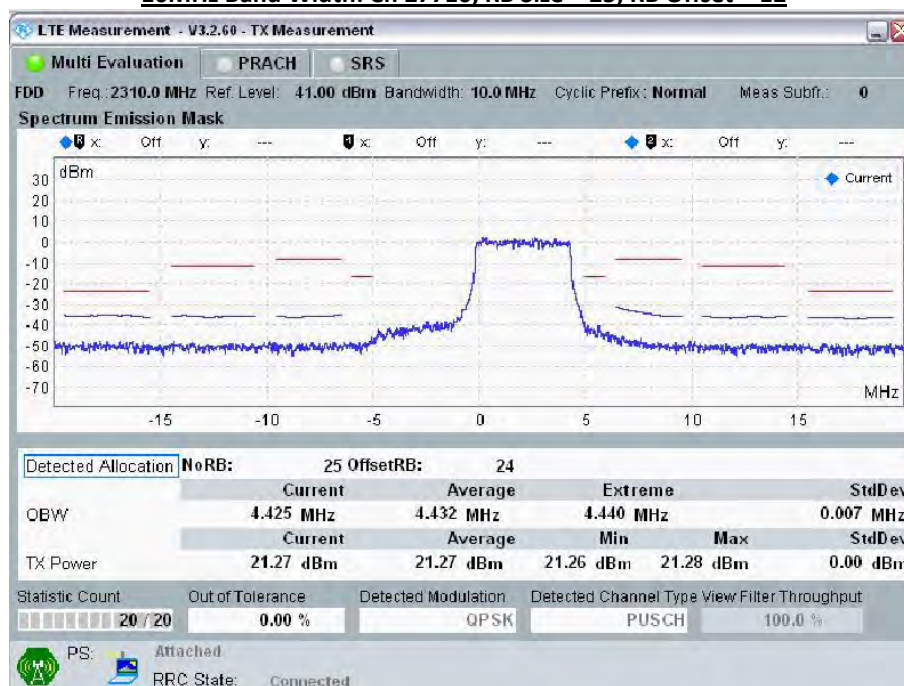
10MHz Band Width: Ch 27710, RB Size = 1; RB Offset = 49



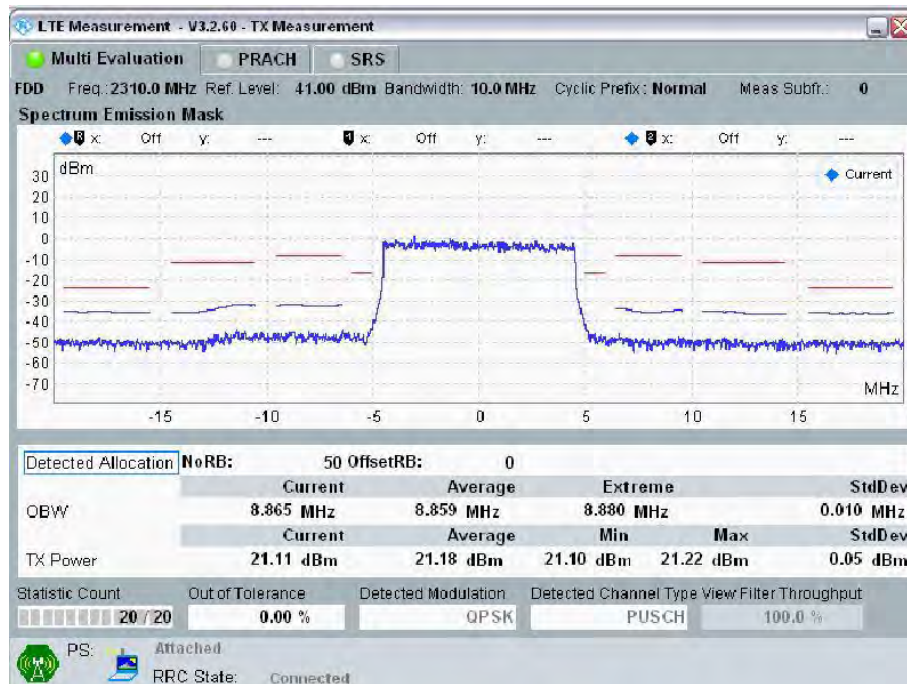
10MHz Band Width: Ch 27710, RB Size = 25; RB Offset = 0



10MHz Band Width: Ch 27710, RB Size = 25; RB Offset = 12



10MHz Band Width: Ch 27710, RB Size = 25; RB Offset = 24



11.2.10 LTE Band 41

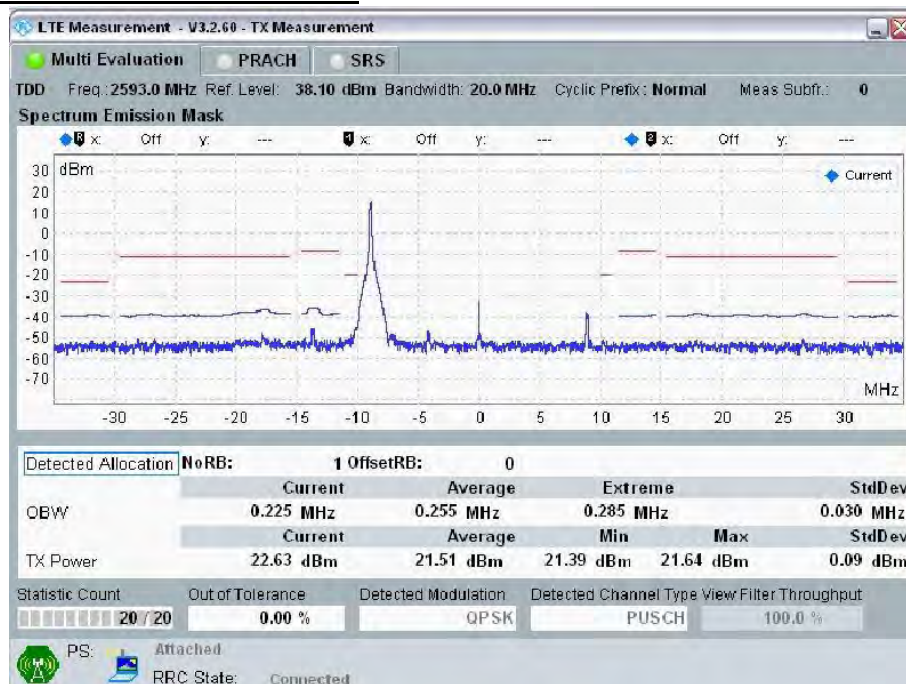
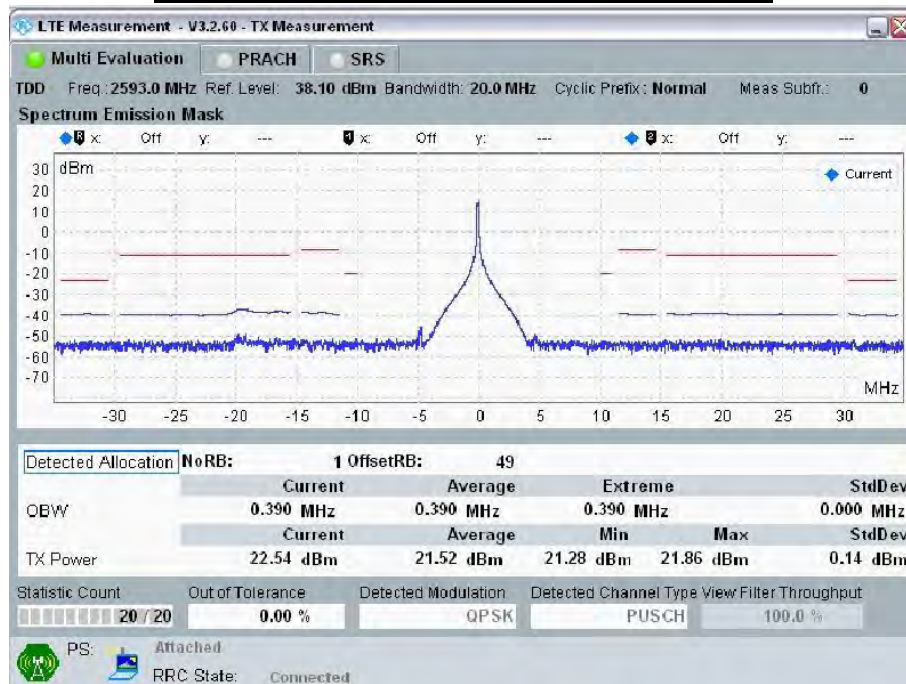
Output power table

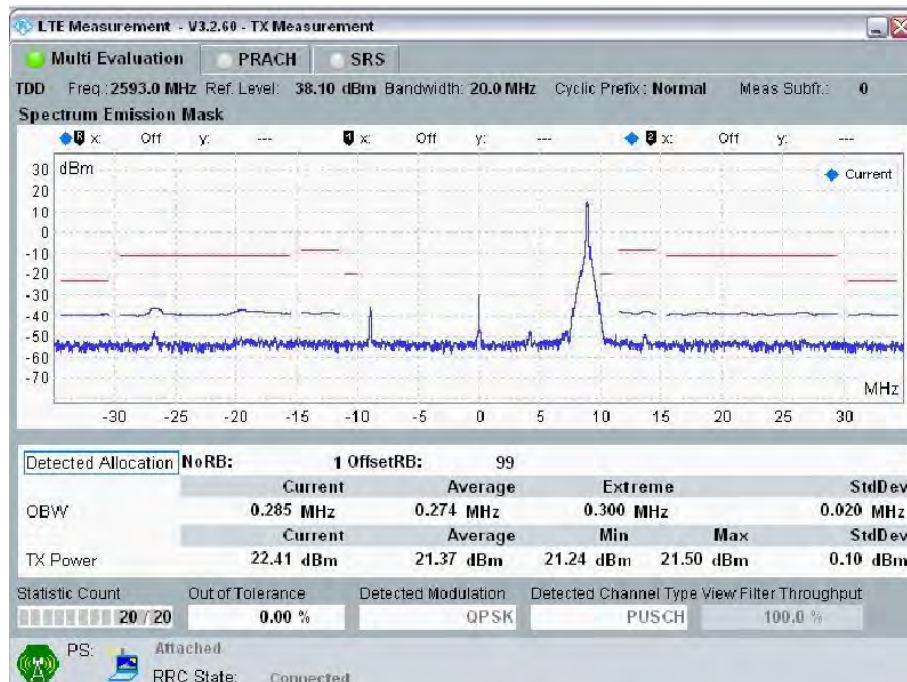
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Start	MPR	Average power(dBm)	
								W/o Power back-off	W/ Power back-off
41	20	39750	2506.0	QPSK	1	0	0	22.5	18.7
					1	49	0	22.4	18.6
					1	99	0	22.3	18.5
					50	0	1	21.5	18.7
					50	24	1	21.4	18.6
					50	49	1	21.3	18.6
					100	0	1	21.4	18.5
				16QAM	1	0	1	21.6	18.6
					1	49	1	21.5	18.5
					1	99	1	21.4	18.4
					50	0	2	20.7	18.6
					50	24	2	20.6	18.5
					50	49	2	20.5	18.5
					100	0	2	20.4	18.4
		40620	2593.0	QPSK	1	0	0	22.6	19.5
					1	49	0	22.5	19.4
					1	99	0	22.4	19.3
					50	0	1	21.6	19.5
					50	24	1	21.5	19.4
					50	49	1	21.4	19.4
					100	0	1	21.5	19.3
				16QAM	1	0	1	21.7	19.4
					1	49	1	21.6	19.3
					1	99	1	21.5	19.2
					50	0	2	20.8	19.4
					50	24	2	20.7	19.3
					50	49	2	20.6	19.3
					100	0	2	20.5	19.2
		41490	2680.0	QPSK	1	0	0	22.4	19.0
					1	49	0	22.3	18.9
					1	99	0	22.2	18.8
					50	0	1	21.4	19.0
					50	24	1	21.3	18.9
					50	49	1	21.2	18.9
					100	0	1	21.3	18.8
				16QAM	1	0	1	21.5	18.9
					1	49	1	21.4	18.8
					1	99	1	21.3	18.7
					50	0	2	20.6	18.9
					50	24	2	20.5	18.8
					50	49	2	20.4	18.8
					100	0	2	20.3	18.7

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Start	MPR	Average power(dBm)	
								W/o Power back-off	W/ Power back-off
41	15	39725	2503.5	QPSK	1	0	0	22.5	18.7
					1	37	0	22.4	18.6
					1	74	0	22.3	18.5
					36	0	1	21.5	18.7
					36	18	1	21.4	18.6
					36	35	1	21.3	18.6
					75	0	1	21.4	18.5
				16QAM	1	0	1	21.6	18.6
					1	37	1	21.5	18.5
					1	74	1	21.4	18.4
					36	0	2	20.7	18.6
					36	18	2	20.6	18.5
					36	35	2	20.5	18.5
					75	0	2	20.4	18.4
		40620	2593.0	QPSK	1	0	0	22.6	19.5
					1	37	0	22.5	19.4
					1	74	0	22.4	19.3
					36	0	1	21.6	19.5
					36	18	1	21.5	19.4
					36	35	1	21.4	19.4
					75	0	1	21.5	19.3
				16QAM	1	0	1	21.7	19.4
					1	37	1	21.6	19.3
					1	74	1	21.5	19.2
					36	0	2	20.8	19.4
					36	18	2	20.7	19.3
					36	35	2	20.6	19.3
					75	0	2	20.5	19.2
		41515	2682.5	QPSK	1	0	0	22.4	19.0
					1	37	0	22.3	18.9
					1	74	0	22.2	18.8
					36	0	1	21.4	19.0
					36	18	1	21.3	18.9
					36	35	1	21.2	18.9
					75	0	1	21.3	18.8
				16QAM	1	0	1	21.5	18.9
					1	37	1	21.4	18.8
					1	74	1	21.3	18.7
					36	0	2	20.6	18.9
					36	18	2	20.5	18.8
					36	35	2	20.4	18.8
					75	0	2	20.3	18.7

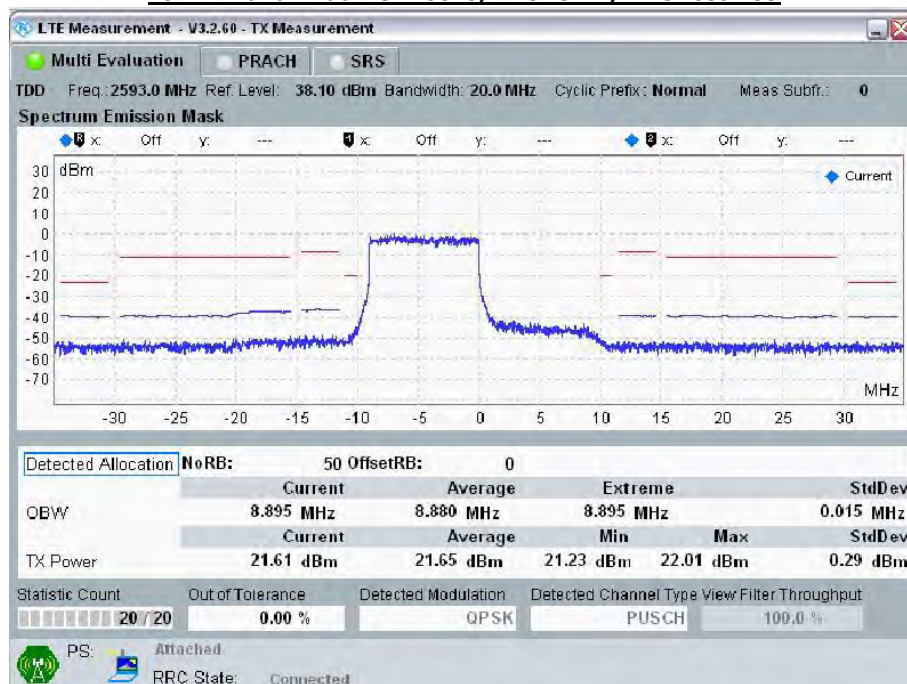
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Start	MPR	Average power(dBm)	
								W/o Power back-off	W/ Power back-off
41	10	39700	2501.0	QPSK	1	0	0	22.4	18.6
					1	24	0	22.3	18.5
					1	49	0	22.2	18.4
					25	0	1	21.4	18.6
					25	12	1	21.3	18.5
					25	24	1	21.2	18.5
					50	0	1	21.3	18.4
				16QAM	1	0	1	21.5	18.5
					1	24	1	21.4	18.4
					1	49	1	21.3	18.3
					25	0	2	20.6	18.5
					25	12	2	20.5	18.4
					25	24	2	20.4	18.4
					50	0	2	20.3	18.3
		40620	2593.0	QPSK	1	0	0	22.5	19.4
					1	24	0	22.4	19.3
					1	49	0	22.3	19.2
					25	0	1	21.5	19.4
					25	12	1	21.4	19.3
					25	24	1	21.3	19.3
					50	0	1	21.4	19.2
				16QAM	1	0	1	21.6	19.3
					1	24	1	21.5	19.2
					1	49	1	21.4	19.1
					25	0	2	20.7	19.3
					25	12	2	20.6	19.2
					25	24	2	20.5	19.2
					50	0	2	20.4	19.1
		41540	2685.0	QPSK	1	0	0	22.3	18.9
					1	24	0	22.2	18.8
					1	49	0	22.1	18.7
					25	0	1	21.3	18.9
					25	12	1	21.2	18.8
					25	24	1	21.1	18.8
					50	0	1	21.2	18.7
				16QAM	1	0	1	21.4	18.8
					1	24	1	21.3	18.7
					1	49	1	21.2	18.6
					25	0	2	20.5	18.8
					25	12	2	20.4	18.7
					25	24	2	20.3	18.7
					50	0	2	20.2	18.6

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Start	MPR	Average power(dBm)	
								W/o Power back-off	W/ Power back-off
41	5	39675	2498.5	QPSK	1	0	0	22.4	18.6
					1	12	0	22.3	18.5
					1	24	0	22.2	18.4
					12	0	1	21.4	18.6
					12	6	1	21.3	18.5
					12	11	1	21.2	18.5
					25	0	1	21.3	18.4
				16QAM	1	0	1	21.5	18.5
					1	12	1	21.4	18.4
					1	24	1	21.3	18.3
					12	0	2	20.6	18.5
					12	6	2	20.5	18.4
					12	11	2	20.4	18.4
					25	0	2	20.3	18.3
		40620	2593.0	QPSK	1	0	0	22.5	19.4
					1	12	0	22.4	19.3
					1	24	0	22.3	19.2
					12	0	1	21.5	19.4
					12	6	1	21.4	19.3
					12	11	1	21.3	19.3
					25	0	1	21.4	19.2
				16QAM	1	0	1	21.6	19.3
					1	12	1	21.5	19.2
					1	24	1	21.4	19.1
					12	0	2	20.7	19.3
					12	6	2	20.6	19.2
					12	11	2	20.5	19.2
					25	0	2	20.4	19.1
		41565	2687.5	QPSK	1	0	0	22.3	18.9
					1	12	0	22.2	18.8
					1	24	0	22.1	18.7
					12	0	1	21.3	18.9
					12	6	1	21.2	18.8
					12	11	1	21.1	18.8
					25	0	1	21.2	18.7
				16QAM	1	0	1	21.4	18.8
					1	12	1	21.3	18.7
					1	24	1	21.2	18.6
					12	0	2	20.5	18.8
					12	6	2	20.4	18.7
					12	11	2	20.3	18.7
					25	0	2	20.2	18.6

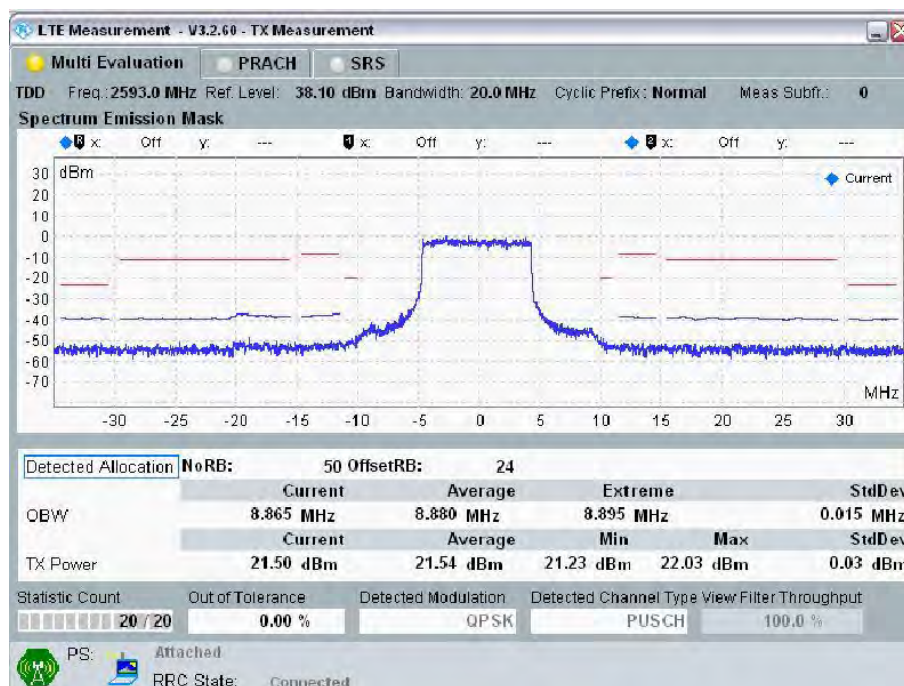
Spectrum Plots for the Test RB allocations**20MHz Band Width: Ch 40620, RB Size = 1; RB Offset = 0****20MHz Band Width: Ch 40620, RB Size = 1; RB Offset = 49**



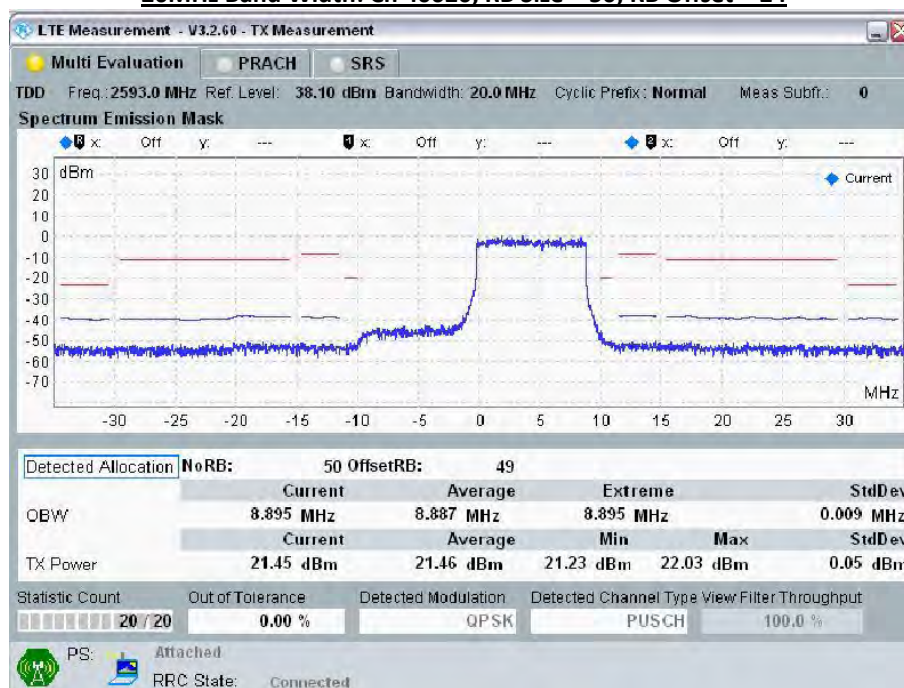
20MHz Band Width: Ch 40620, RB Size = 1; RB Offset = 99



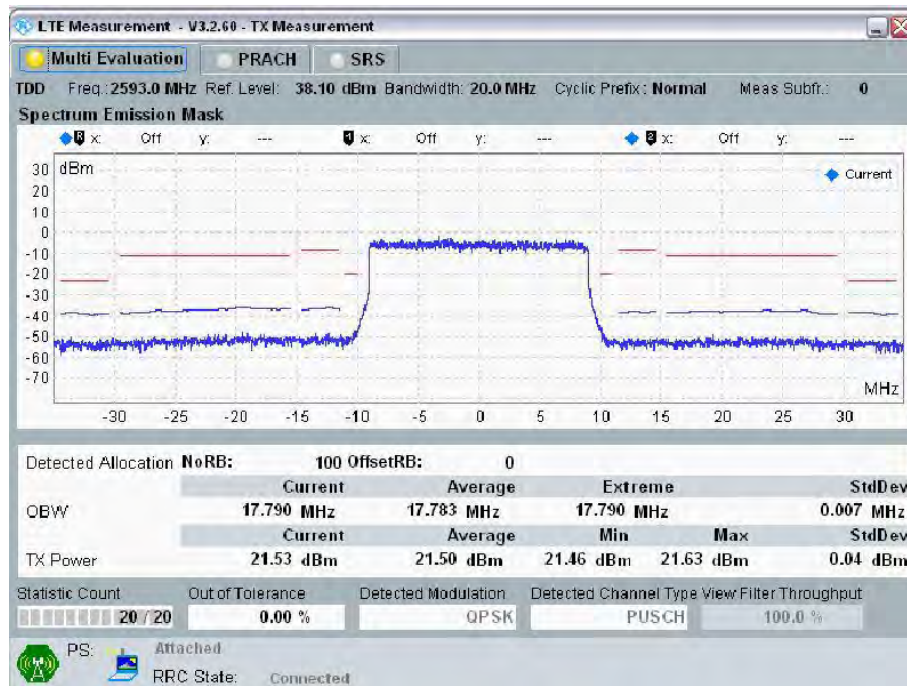
20MHz Band Width: Ch 4062.0, RB Size = 50; RB Offset = 0



20MHz Band Width: Ch 40620, RB Size = 50; RB Offset = 24



20MHz Band Width: Ch 40620, RB Size = 50; RB Offset = 49



20MHz Band Width: Ch 40620, RB Size = 100; RB Offset = 0

12 Summary of SAR Test Exclusion Configurations

12.1 Standalone SAR Test Exclusion Calculations

Since the Dedicated Host Approach is applied, the standalone SAR test exclusion procedure in KDB 447498 section 4.3.1 is applied in conjunction with KDB 616217 section 4.3 to determine the minimum test separation distance:

1. According to KDB 447498 Section 4.1.5) if the antenna is at close proximity to user then the outer surface of the DUT should be treated as the radiating surface. The test separation distance is then determined by the smallest distance between the outer surface of the device and the user. For the purposes of this report close proximity has been defined as closer than 50 mm. For antennas <50 mm from the rear or edge the separation distance used for the estimated SAR calculations is 0 mm.
2. When the minimum test separation distance is < 5mm, a distance of 5mm is applied to determine SAR test exclusion.
3. When the separation distance from the antenna to an adjacent edge is > 5 mm, the actual antenna-to-edge separation distance is applied to determine SAR test exclusion.
4. If the antenna to DUT adjacent edge or bottom separation distance >50mm the actual antenna to user separation distance is used to determine SAR exclusion and estimated SAR value.

Refer to Appendix for the specific details on the antenna-to-antenna and antenna-to-edge distances used for test exclusion calculations.

12.1.1 SAR Exclusion Calculations for Wi-Fi Antenna < 50mm from the User

According to KDB 447498 v05 r02 in section 4.3.1, if the calculated threshold value is > 3 then SAR testing is required.

For WWAN

Full Power, Proximity Sensor Off.

Antenna	Band	Frequency (MHz)	Output Power		Separation Distances(mm)					Calculated Threshold Value				
			dBm	mW	Rear	Edge1	Edge2	Edge3	Edge4	Rear	Edge1	Edge2	Edge3	Edge4
WWAN	WCDMA Band II	1852.4	24.0	251	4.5	2.8	182.89	177.6	33.11	75.9	122.0	>50mm	>50mm	10.3
	WCDMA Band IV	1712.4	24.0	251	4.5	2.8	182.89	177.6	33.11	73.0	117.3	>50mm	>50mm	9.9
	WCDMA Band V	826.4	24.0	251	4.5	2.8	182.89	177.6	33.11	50.7	81.5	>50mm	>50mm	6.9
	LTE Band 2	1860.0	24.0	251	4.5	2.8	182.89	177.6	33.11	76.1	122.3	>50mm	>50mm	10.3
	LTE Band 4	1720.0	24.0	251	4.5	2.8	182.89	177.6	33.11	73.2	117.6	>50mm	>50mm	9.9
	LTE Band 5	829.0	24.0	251	4.5	2.8	182.89	177.6	33.11	50.8	81.6	>50mm	>50mm	6.9
	LTE Band 7	2510.0	23.0	200	4.5	2.8	182.89	177.6	33.11	70.4	113.2	>50mm	>50mm	9.6
	LTE Band 12	704.0	24.0	251	4.5	2.8	182.89	177.6	33.11	46.8	75.2	>50mm	>50mm	6.4
	LTE Band 13	782.0	24.0	251	4.5	2.8	182.89	177.6	33.11	49.3	79.3	>50mm	>50mm	6.7
	LTE Band 25	1860.0	24.0	251	4.5	2.8	182.89	177.6	33.11	76.1	122.3	>50mm	>50mm	10.3
	LTE Band 26	821.5	24.0	251	4.5	2.8	182.89	177.6	33.11	50.6	81.2	>50mm	>50mm	6.9
	LTE Band 30	2310.0	23.0	200	4.5	2.8	182.89	177.6	33.11	67.5	108.6	>50mm	>50mm	9.2
	LTE Band 41	2506.0	23.0	200	4.5	2.8	182.89	177.6	33.11	70.4	113.1	>50mm	>50mm	9.6

Power back off, Proximity Sensor On.

Antenna	Band	Frequency (MHz)	Output Power		Separation Distances(mm)					Calculated Threshold Value				
			dBm	mW	Rear	Edge1	Edge2	Edge3	Edge4	Rear	Edge1	Edge2	Edge3	Edge4
WWAN	WCDMA Band II	1852.4	18.0	63	4.5	2.8				19.1	30.6			
	WCDMA Band IV	1712.4	17.5	56	4.5	2.8				16.3	26.2			
	WCDMA Band V	826.4	20.0	100	4.5	2.8				20.2	32.5			
	LTE Band 2	1860.0	17.5	56	4.5	2.8				17.0	27.3			
	LTE Band 4	1720.0	18.0	63	4.5	2.8				18.4	29.5			
	LTE Band 5	829.0	20.0	100	4.5	2.8				20.2	32.5			
	LTE Band 7	2510.0	16.5	45	4.5	2.8				15.8	25.5			
	LTE Band 12	704.0	20.5	112	4.5	2.8				20.9	33.6			
	LTE Band 13	782.0	19.0	79	4.5	2.8				15.5	25.0			
	LTE Band 25	1860.0	17.5	56	4.5	2.8				17.0	27.3			
	LTE Band 26	821.5	20.0	100	4.5	2.8				20.1	32.4			
	LTE Band 30	2310.0	17.0	50	4.5	2.8				16.9	27.1			
	LTE Band 41	2506.0	20.0	100	4.5	2.8				35.2	56.5			

12.1.2 SAR Exclusion Calculations for Wi-Fi Antenna > 50mm from the User

According to KDB 447498 v05 r02, if the calculated Power threshold is less than the output power then SAR testing is required.

For WWAN

Full Power, Proximity Sensor Off.

Antenna	Band	Frequency (MHz)	Output Power		Separation Distances(mm)					Calculated Threshold Value				
			dBm	mW	Rear	Edge1	Edge2	Edge3	Edge4	Rear	Edge1	Edge2	Edge3	Edge4
WWAN	WCDMA Band II	1852.4	24.0	251	4.5	2.8	182.9	177.6	33.11	<50mm	<50mm	1439.11	1386.21	<50mm
	WCDMA Band IV	1712.4	24.0	251	4.5	2.8	182.9	177.6	33.11	<50mm	<50mm	1443.53	1390.63	<51mm
	WCDMA Band V	826.4	24.0	251	4.5	2.8	182.9	177.6	33.11	<50mm	<50mm	1493.90	1441.00	<52mm
	LTE Band 2	1860.0	24.0	251	4.5	2.8	182.9	177.6	33.11	<50mm	<50mm	1438.89	1385.99	<53mm
	LTE Band 4	1720.0	24.0	251	4.5	2.8	182.9	177.6	33.11	<50mm	<50mm	1443.27	1390.37	<54mm
	LTE Band 5	829.0	24.0	251	4.5	2.8	182.9	177.6	33.11	<50mm	<50mm	1493.65	1440.75	<55mm
	LTE Band 7	2510.0	23.0	200	4.5	2.8	182.9	177.6	33.11	<50mm	<50mm	1423.58	1370.68	<56mm
	LTE Band 12	704.0	24.0	251	4.5	2.8	182.9	177.6	33.11	<50mm	<50mm	1507.67	1454.77	<57mm
	LTE Band 13	782.0	24.0	251	4.5	2.8	182.9	177.6	33.11	<50mm	<50mm	1498.52	1445.62	<58mm
	LTE Band 25	1860.0	24.0	251	4.5	2.8	182.9	177.6	33.11	<50mm	<50mm	1438.89	1385.99	<59mm
	LTE Band 26	821.5	24.0	251	4.5	2.8	182.9	177.6	33.11	<50mm	<50mm	1494.40	1441.50	<60mm
	LTE Band 30	2310.0	23.0	200	4.5	2.8	182.9	177.6	33.11	<50mm	<50mm	1427.59	1374.69	<61mm
	LTE Band 41	2506.0	23.0	200	4.5	2.8	182.9	177.6	33.11	<50mm	<50mm	1423.65	1370.75	<62mm

Power back off, Proximity Sensor On.

Antenna	Band	Frequency (MHz)	Output Power		Separation Distances(mm)					Calculated Threshold Value				
			dBm	mW	Rear	Edge1	Edge2	Edge3	Edge4	Rear	Edge1	Edge2	Edge3	Edge4
WWAN	WCDMA Band II	1852.4	18.0	63	4.5	2.8				<50mm	<50mm			
	WCDMA Band IV	1712.4	17.5	56	4.5	2.8				<50mm	<50mm			
	WCDMA Band V	826.4	20.0	100	4.5	2.8				<50mm	<50mm			
	LTE Band 2	1860.0	17.5	56	4.5	2.8				<50mm	<50mm			
	LTE Band 4	1720.0	18.0	63	4.5	2.8				<50mm	<50mm			
	LTE Band 5	829.0	20.0	100	4.5	2.8				<50mm	<50mm			
	LTE Band 7	2510.0	16.5	45	4.5	2.8				<50mm	<50mm			
	LTE Band 12	704.0	20.5	112	4.5	2.8				<50mm	<50mm			
	LTE Band 13	782.0	19.0	79	4.5	2.8				<50mm	<50mm			
	LTE Band 25	1860.0	17.5	56	4.5	2.8				<50mm	<50mm			
	LTE Band 26	821.5	20.0	100	4.5	2.8				<50mm	<50mm			
	LTE Band 30	2310.0	17.0	50	4.5	2.8				<50mm	<50mm			
	LTE Band 41	2506.0	20.0	100	4.5	2.8				<50mm	<50mm			

12.1.3 SAR Required Test Configuration**For WWAN**

Full Power, Proximity Sensor Off

Test Configurations	Rear	Edge1	Edge2	Edge3	Edge4
WCDMA Band II	Yes	Yes	Yes	No	No
WCDMA Band IV	Yes	Yes	Yes	No	No
WCDMA Band V	Yes	Yes	Yes	No	No
LTE Band 2	Yes	Yes	Yes	No	No
LTE Band 4	Yes	Yes	Yes	No	No
LTE Band 5	Yes	Yes	Yes	No	No
LTE Band 7	Yes	Yes	Yes	No	No
LTE Band 12	Yes	Yes	Yes	No	No
LTE Band 13	Yes	Yes	Yes	No	No
LTE Band 25	Yes	Yes	Yes	No	No
LTE Band 26	Yes	Yes	Yes	No	No
LTE Band 30	Yes	Yes	Yes	No	No
LTE Band 41	Yes	Yes	Yes	No	No

Note(s):

1. Yes = SAR is required.
2. No = SAR is not required.

Power back off, Proximity Sensor On

Test Configurations	Rear	Edge1	Edge2	Edge3	Edge4
WCDMA Band II	Yes	Yes	No	No	No
WCDMA Band IV	Yes	Yes	No	No	No
WCDMA Band V	Yes	Yes	No	No	No
LTE Band 2	Yes	Yes	No	No	No
LTE Band 4	Yes	Yes	No	No	No
LTE Band 5	Yes	Yes	No	No	No
LTE Band 7	Yes	Yes	No	No	No
LTE Band 12	Yes	Yes	No	No	No
LTE Band 13	Yes	Yes	No	No	No
LTE Band 25	Yes	Yes	No	No	No
LTE Band 26	Yes	Yes	No	No	No
LTE Band 30	Yes	Yes	No	No	No
LTE Band 41	Yes	Yes	No	No	No

Note(s):

1. Yes = SAR is required.
2. No = SAR is not required.

13 Exposure Limit

(A). Limits for Occupational/Controlled Exposure (W/kg)

<u>Whole-Body</u>	<u>Partial-Body</u>	<u>Hands, Wrists, Feet and Ankles</u>
0.4	8.0	2.0

(B). Limits for General Population/Uncontrolled Exposure (W/kg)

<u>Whole-Body</u>	<u>Partial-Body</u>	<u>Hands, Wrists, Feet and Ankles</u>
0.08	1.6	4.0

NOTE: **Whole-Body SAR** is averaged over the entire body, **partial-body SAR** is averaged over any 1 gram of tissue defined as a tissue volume in the shape of a cube. **SAR for hands, wrists, feet and ankles** is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

Population/Uncontrolled Environments:

are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

Occupational/Controlled Environments:

are defined as locations where there is exposure that may be incurred by people who are aware of the potential for exposure, (i.e. as a result of employment or occupation).

NOTE
GENERAL POPULATION/UNCONTROLLED EXPOSURE
PARTIAL BODY LIMIT
1.6 W/kg

14 Tissue Dielectric Properties

14.1 Test Liquid Confirmation

Simulating Liquids Parameter Check

The simulating liquids should be checked at the beginning of a series of SAR measurements to determine if the dielectric parameters are within the tolerances of the specified target values

The relative permittivity and conductivity of the tissue material should be within $\pm 5\%$ of the values given in the table below. 5% may not be easily achieved at certain frequencies.

The head tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 in IEEE 1528 2013 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness variations in a human head. Other head and body tissue parameters that have not been specified in IEEE 1528 2013 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations and extrapolated according to the head parameters specified in IEEE 1528 2013

Target Frequency (MHz)	Head		Body	
	ϵ_r	σ (S/m)	ϵ_r	σ (S/m)
150	52.3	0.76	61.9	0.80
300	45.3	0.87	58.2	0.92
450	43.5	0.87	56.7	0.94
835	41.5	0.90	55.2	0.97
900	41.5	0.97	55.0	1.05
915	41.5	0.98	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
1800 – 2000	40.0	1.40	53.3	1.52
2450	39.2	1.80	52.7	1.95
3000	38.5	2.40	52.0	2.73
5000	36.2	4.45	49.3	5.07
5100	36.1	4.55	49.1	5.18
5200	36.0	4.66	49.0	5.30
5300	35.9	4.76	48.9	5.42
5400	35.8	4.86	48.7	5.53
5500	35.6	4.96	48.6	5.65
5600	35.5	5.07	48.5	5.77
5700	35.4	5.17	48.3	5.88
5800	35.3	5.27	48.2	6.00

14.2 Typical Composition of Ingredients for Liquid Tissue Phantoms

The following tissue formulations are provided for reference only as some of the parameters have not been thoroughly verified. The composition of ingredients may be modified accordingly to achieve the desired target tissue parameters required for routine SAR evaluation.

Ingredients (% by weight)	Frequency (MHz)									
	450		835		915		1900		2450	
Tissue Type	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body
Water	38.56	51.16	41.45	52.4	41.05	56.0	54.9	40.4	62.7	73.2
Salt (NaCl)	3.95	1.49	1.45	1.4	1.35	0.76	0.18	0.5	0.5	0.04
Sugar	56.32	46.78	56.0	45.0	56.5	41.76	0.0	58.0	0.0	0.0
HEC	0.98	0.52	1.0	1.0	1.0	1.21	0.0	1.0	0.0	0.0
Bactericide	0.19	0.05	0.1	0.1	0.1	0.27	0.0	0.1	0.0	0.0
Triton X-100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.8	0.0
DGBE	0.0	0.0	0.0	0.0	0.0	0.0	44.92	0.0	0.0	26.7
Dielectric Constant	43.42	58.0	42.54	56.1	42.0	56.8	39.9	54.0	39.8	52.5
Conductivity (S/m)	0.85	0.83	0.91	0.95	1.0	1.07	1.42	1.45	1.88	1.78

alt: 99⁺% Pure Sodium Chloride

Sugar: 98⁺% Pure Sucrose

Water: De-ionized, 16 MΩ⁺ resistivity

HEC: Hydroxy thyl Cellulose

DGBE: 99⁺% Di(ethylene glycol) butyl ether, [2-(2-butoxyethoxy)ethanol]

Triton X-100 (ultra-pure): Polyethylene glycol mono [4-(1, 1, 3, 3-tetramethylbutyl)phenyl]ether

Simulating Liquids for 5 GHz, Manufactured by SPEAG

Ingredients	(% by weight)
Water	78
Mineral oil	11
Emulsifiers	9
Additives and Salt	2

14.3 Simulating Liquids Parameter Check Results

Date	Band	Freq(MHz)	Measured			Standard		Δ		Limit (%)
			e' (ϵ_r)	e''	σ	e' (ϵ_r)	σ	e' (ϵ_r)	σ	
2015/11/2	Body 1900	1852.4	52.59	14.38	1.48	53.30	1.52	-1.32%	-2.65%	± 5
		1880	52.51	14.50	1.51	53.30	1.52	-1.49%	-0.36%	± 5
		1907.6	52.44	14.59	1.55	53.30	1.52	-1.61%	1.75%	± 5
2015/11/3	Body 1800	1712.4	51.21	15.68	1.49	53.53	1.46	-4.34%	1.88%	± 5
		1732.4	51.11	15.73	1.51	53.48	1.48	-4.42%	2.51%	± 5
		1752.6	51.05	15.81	1.54	53.43	1.49	-4.46%	3.33%	± 5
2015/11/3	Body 900	826.4	56.35	20.91	0.96	55.24	0.97	2.02%	-0.97%	± 5
		836.6	56.26	20.88	0.97	55.20	0.97	1.92%	-0.10%	± 5
		846.6	56.17	20.85	0.98	55.17	0.98	1.82%	-0.29%	± 5
2015/11/4	Body 1900	1860	51.99	14.54	1.50	53.30	1.52	-2.46%	-1.17%	± 5
		1882.5	51.93	14.58	1.52	53.30	1.52	-2.56%	0.30%	± 5
		1905	51.87	14.63	1.55	53.30	1.52	-2.69%	1.87%	± 5
2015/11/4	Body 1900	1855	52.01	14.52	1.50	53.30	1.52	-2.43%	-1.53%	± 5
		1880	51.93	14.58	1.52	53.30	1.52	-2.56%	0.17%	± 5
		1905	51.87	14.63	1.55	53.30	1.52	-2.69%	1.87%	± 5
2015/11/5	Body 1800	1715	53.03	15.57	1.48	53.52	1.47	-0.91%	1.18%	± 5
		1732.5	52.94	15.60	1.50	53.48	1.48	-1.01%	1.67%	± 5
		1750	52.86	15.65	1.52	53.43	1.49	-1.07%	2.21%	± 5
2015/11/5	Body 900	821.5	54.39	20.31	0.93	55.20	0.93	-1.48%	-0.39%	± 5
		831	54.29	20.30	0.94	55.22	0.94	-1.68%	-0.69%	± 5
		841.5	54.19	20.30	0.95	55.18	0.91	-1.80%	4.49%	± 5
2015/11/6	Body 900	829	55.61	21.10	0.97	55.22	0.97	0.70%	0.25%	± 5
		836.5	55.54	21.09	0.98	55.20	0.97	0.63%	0.89%	± 5
		844	55.45	21.07	0.99	55.17	0.98	0.50%	0.69%	± 5
2015/11/9	Body 750	704	54.03	23.59	0.92	55.71	0.96	-3.01%	-3.88%	± 5
		707.5	54.02	23.58	0.93	55.70	0.96	-3.02%	-3.47%	± 5
		711	54.00	23.57	0.93	55.68	0.96	-3.03%	-3.07%	± 5
2015/11/9	Body 750	782	53.35	22.94	1.00	55.41	0.97	-3.72%	3.17%	± 5
2015/11/10	Body 2450	2412	51.85	13.66	1.83	52.75	1.91	-1.70%	-4.35%	± 5
		2437	51.78	13.78	1.87	52.72	1.94	-1.79%	-3.73%	± 5
		2442	51.76	13.79	1.87	52.71	1.94	-1.80%	-3.66%	± 5
		2450	51.74	13.83	1.88	52.70	1.95	-1.82%	-3.50%	± 5
		2462	51.70	13.88	1.90	52.68	1.97	-1.87%	-3.51%	± 5
2015/11/11	Body 2450	2472	51.67	13.92	1.91	52.67	1.98	-1.90%	-3.54%	± 5
		2412	50.90	13.59	1.82	52.75	1.91	-3.51%	-4.81%	± 5
		2437	50.64	13.77	1.86	52.72	1.94	-3.95%	-3.75%	± 5
		2442	50.64	13.82	1.87	52.71	1.94	-3.93%	-3.49%	± 5
		2450	50.67	13.91	1.89	52.70	1.95	-3.85%	-2.94%	± 5
2015/11/11	Body 2450	2462	50.81	14.07	1.92	52.68	1.97	-3.56%	-2.18%	± 5
		2472	50.93	14.15	1.94	52.67	1.98	-3.32%	-1.89%	± 5
2015/11/13	Body 2300	2310	51.96	13.46	1.73	52.89	1.82	-1.75%	-4.88%	± 5

15 Measurement Uncertainty

According to KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz section 2.8.2, SAR measurement uncertainty analysis is required in SAR reports only when the highest measured SAR in a frequency band is ≥ 1.5 W/kg for 1-g SAR, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval.

16 System Performance Check

The system performance check is performed prior to any usage of the system in order to guarantee reproducible results. The system performance check verifies that the system operates within its specifications. The system performance check results are tabulated below. And also the corresponding SAR plot is attached as well in the SAR plots files.

System Performance Check Measurement Conditions

- The measurements were performed in the flat section of the SAM twin phantom filled with Body simulating liquid of the following parameters.
- The DASY4/DASY5 system with E-field probe EX3DV4 SN:3665 and E-field probe EX3DV4 SN:7351 was used for the measurements.
- The dipole was mounted on the small tripod so that the dipole feed point was positioned below the center marking of the flat phantom section and the dipole was oriented parallel to the body axis (the long side of the phantom). The standard measuring distance was 15 mm (below 1 GHz) and 10 mm (above 1 GHz) from dipole center to the simulating liquid surface.
- The coarse grid with a grid spacing of 10mm was aligned with the dipole.
- Special 7x7x7 fine cube was chosen for cube integration (dx=dy= 5 mm, dz= 5 mm).
- Distance between probe sensors and phantom surface was set to 3.0 mm.
- The dipole input power (forward power) was 100 mW $\pm$ 3%.
- The results are normalized to 1 W input power.

Reference SAR Values for System Performance Check

The reference SAR values can be obtained from the calibration certificate of system validation dipoles

System Dipole	Serial No.	Cal. Date	Freq. (MHz)	Target SAR Values (W/kg)		
				1g/10g	Head	Body
D750V3	1020	2015/1/23	750	1g	8.17	8.61
				10g	5.40	5.70
D835V2	4d015	2015/3/20	835	1g	9.28	9.34
				10g	6.06	6.16
D1800V2	2d062	2015/2/19	1800	1g	38.7	38.4
				10g	20.4	20.4
D1900V2	5d056	2015/2/18	1900	1g	40.2	39.8
				10g	21.3	21.3
D2300V2	1023	2015/8/19	2300	1g	49.1	48.3
				10g	24.0	23.5
D2450V2	728	2014/5/28	2450	1g	53.0	51.0
				10g	24.8	23.8

16.1 System Performance Check Results

Date	System Dipole			Parameters	Target	Measured	Deviation[%]	Limited[%]
	Type	Serial No.	Liquid					
2015/11/2	D1900V2	5d056	Body	1g SAR:	39.80	41.40	4.02	± 5
				10g SAR:	21.30	21.60	1.41	± 5
2015/11/3	D1800V2	2d062	Body	1g SAR:	38.40	39.70	3.39	± 5
				10g SAR:	20.40	20.90	2.45	± 5
2015/11/3	D835V2	4d015	Body	1g SAR:	9.34	9.18	-1.71	± 5
				10g SAR:	6.16	6.09	-1.14	± 5
1015/11/4	D1900V2	5d056	Body	1g SAR:	39.80	41.00	3.02	± 5
				10g SAR:	21.30	21.20	-0.47	± 5
2015/11/5	D1800V2	2d062	Body	1g SAR:	38.40	39.50	2.86	± 5
				10g SAR:	20.40	20.80	1.96	± 5
2015/11/6	D835V2	4d015	Body	1g SAR:	9.34	9.29	-0.54	± 5
				10g SAR:	6.16	6.16	0.00	± 5
2015/11/9	D750V3	1015	Body	1g SAR:	8.61	8.77	1.86	± 5
				10g SAR:	5.70	5.82	2.11	± 5
2015/11/10	D2450V2	728	Body	1g SAR:	51.00	49.10	-3.73	± 5
				10g SAR:	23.80	23.30	-2.10	± 5
2015/11/11	D2450V2	728	Body	1g SAR:	51.00	49.40	-3.14	± 5
				10g SAR:	23.80	23.50	-1.26	± 5
2015/11/13	D2300V2	1023	Body	1g SAR:	48.30	48.70	0.83	± 5
				10g SAR:	23.50	23.80	1.28	± 5

17 SAR Measurements Results

WCDMA Band II:

Power back off (On/Off)	Mode	Test Position	Channel	Freq. (MHz)	Dist. (mm)	Power (dBm)		Measured 1g SAR (W/kg)	Reported SAR(W/kg)	Note	Plot.
						Tune up limit	Measured				
On	Rel 99 RMC 12.2Kbps	Edge 1	9262	1852.4	0	18.0	16.9	0.600	0.773		
		Rear	9262	1852.4	0	18.0	16.9	1.000	1.288		
		Rear	9400	1880.0	0	18.0	16.8	1.000	1.318		
		Rear	9538	1907.6	0	18.0	16.8	1.060	1.397		1
		Rear	9538	1907.6	0	18.0	16.8	1.050	1.384	2	
Off	Rel 99 RMC 12.2Kbps	Edge 1	9262	1852.4	18	24.0	22.8	0.383	0.505		
		Rear	9262	1852.4	18	24.0	22.8	0.384	0.506		
		Edge 4	9262	1852.4	0	24.0	22.8	0.179	0.236		

Note(s):

- Testing of other required channels within the operating mode of a frequency band is required when the reported 1-g SAR for the mid-band or highest output power channel. ≥ 0.8 W/kg and transmission band ≤ 100 MHz (Per KDB 447498 D01 v06)
- Repeated measurements are required only when the measured SAR is ≥ 0.80 W/kg. If the measured SAR values are < 1.45 W/kg with $\leq 20\%$ variation, only one repeated measurement is required to reaffirm that the results are not expected to have substantial variations, which may introduce significant compliance concerns. (Per KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04)
 - Original SAR = 1.06 W/kg, therefore two times repeat SAR is required.
 - Repeat SAR = 1.05 W/kg < 1.45 W/kg
 - SAR variation= 0.94 % $< 20\%$

WCDMA Band IV:

Power back off (On/Off)	Mode	Test Position	Channel	Freq. (MHz)	Dist. (mm)	Power (dBm)		Measured 1g SAR (W/kg)	Reported SAR(W/kg)	Note	Plot
						Tune up limit	Measured				
On	Rel 99 RMC 12.2Kbps	Edge 1	1413	1732.6	0	17.5	16.3	0.513	0.676		
		Rear	1413	1732.6	0	17.5	16.3	0.974	1.284		1
		Rear	1312	1712.4	0	17.5	16.2	0.905	1.221		
		Rear	1513	1752.6	0	17.5	16.1	0.763	1.053		
		Rear	1413	1732.6	0	17.5	16.3	0.922	1.215	2	
Off	Rel 99 RMC 12.2Kbps	Edge 1	1413	1732.6	18	24.0	22.8	0.406	0.535		
		Rear	1413	1732.6	18	24.0	22.8	0.365	0.481		
		Edge 4	1413	1732.6	0	24.0	22.8	0.707	0.932		
		Edge 4	1312	1712.4	0	24.0	22.7	0.750	1.012		
		Edge 4	1513	1752.6	0	24.0	22.5	0.495	0.699		

Note(s):

- Testing of other required channels within the operating mode of a frequency band is required when the reported 1-g SAR for the mid-band or highest output power channel. ≥ 0.8 W/kg and transmission band ≤ 100 MHz (Per KDB 447498 D01 v06)
- Repeated measurements are required only when the measured SAR is ≥ 0.80 W/kg. If the measured SAR values are < 1.45 W/kg with $\leq 20\%$ variation, only one repeated measurement is required to reaffirm that the results are not expected to have substantial variations, which may introduce significant compliance concerns. (Per KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04)
 - Original SAR = 0.974 W/kg, therefore two times repeat SAR is required.
 - Repeat SAR = 0.922 W/kg < 1.45 W/kg
 - SAR variation= 5.34% $< 20\%$

WCDMA Band V:

Power back off (On/Off)	Mode	Test Position	Channel	Freq. (MHz)	Dist. (mm)	Power (dBm)		Measured 1g SAR (W/kg)	Reported SAR(W/kg)	Note	Plot
						Tune up limit	Measured				
On	Rel 99 RMC 12.2Kbps	Edge 1	4233	846.6	0	20.0	19.4	0.497	0.571		
		Rear	4233	846.6	0	20.0	19.4	0.886	1.017		
		Rear	4132	826.4	0	20.0	19.1	0.833	1.025		
		Rear	4182	836.4	0	20.0	19.1	0.841	1.035		1
		Rear	4233	846.6	0	20.0	19.4	0.898	1.031	2	
Off	Rel 99 RMC 12.2Kbps	Edge 1	4233	846.6	18	24.0	23.3	0.406	0.477		
		Rear	4233	846.6	18	24.0	23.3	0.392	0.461		
		Edge 2	4233	846.6	0	24.0	23.3	0.176	0.207		
		Edge 3	4233	846.6	0	24.0	23.3	0.006	0.007		
		Edge 4	4233	846.6	0	24.0	23.3	0.298	0.350		

Note(s):

- Testing of other required channels within the operating mode of a frequency band is required when the reported 1-g SAR for the mid-band or highest output power channel. ≥ 0.8 W/kg and transmission band ≤ 100 MHz (Per KDB 447498 D01 v06)
- Repeated measurements are required only when the measured SAR is ≥ 0.80 W/kg. If the measured SAR values are < 1.45 W/kg with $\leq 20\%$ variation, only one repeated measurement is required to reaffirm that the results are not expected to have substantial variations, which may introduce significant compliance concerns. (Per KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04)
 - Original SAR = 0.886 W/kg, therefore two times repeat SAR is required.
 - Repeat SAR = 0.898 W/kg < 1.45 W/kg
 - SAR variation= 1.3 % $< 20\%$

LTE Band 2 (20MHz Bandwidth):

Power back off (On/Off)	Mode	Test Position	Channel	Freq. (MHz)	Dist. (mm)	UL RB Allocation	UL RB Start	Power (dBm)		Measured 1g SAR (W/kg)	Reported SAR(W/kg)	Note	Plot
								Tune up limit	Measured				
On	QPSK	Edge1	18700	1860.0	0	1	0	17.5	17.2	0.702	0.745		
			18700	1860.0	0	50	0	17.5	16.9	0.617	0.715		
		Rear	18700	1860.0	0	1	0	17.5	17.2	1.180	1.253		1
			18700	1860.0	0	1	49	17.5	16.6	0.996	1.225		
			18700	1860.0	0	1	99	17.5	16.7	0.994	1.195		
			18700	1860.0	0	50	0	17.5	16.9	1.070	1.229		
			18700	1860.0	0	50	24	17.5	16.6	1.010	1.243		
			18700	1860.0	0	50	49	17.5	16.7	0.983	1.182		
			18700	1860.0	0	100	0	17.5	16.8	1.040	1.222		
			18900	1880.0	0	1	0	17.5	16.9	1.080	1.240		
			18900	1880.0	0	50	0	17.5	16.5	0.954	1.201		
			19100	1900.0	0	1	0	17.5	17.0	1.100	1.234		
			19100	1900.0	0	50	0	17.5	16.5	0.992	1.249		
			18700	1860.0	0	1	0	17.5	17.2	1.160	1.243	3	
Off	QPSK	Edge1	18700	1860.0	18	1	0	24.0	23.9	0.400	0.409		
			18700	1860.0	18	50	0	24.0	23.0	0.276	0.347		
		Rear	18700	1860.0	18	1	0	24.0	23.9	0.510	0.522		
			18700	1860.0	18	50	0	24.0	23.0	0.355	0.447		
		Edge4	18700	1860.0	0	1	0	24.0	23.9	0.179	0.183		
			18700	1860.0	0	50	0	24.0	23.0	0.132	0.166		

Note(s):

- When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. (Per KDB 941225 D05 v02r05)
- The highest reported SAR for 1 RB and 50% RB allocation are ≥ 0.8 W/kg, SAR is required of 100% RB. Testing for the remaining required channels is not needed because the reported SAR for 100% RB Allocation < 1.45 W/kg. (Per KDB 941225 D05 v02r05)
- Repeated measurements are required only when the measured SAR is ≥ 0.80 W/kg. If the measured SAR values are < 1.45 W/kg with $\leq 20\%$ variation, only one repeated measurement is required to reaffirm that the results are not expected to have substantial variations, which may introduce significant compliance concerns. (Per KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04)
 - Original SAR = 1.180 W/kg, therefore two times repeat SAR is required.
 - Repeat SAR = 1.160 W/kg < 1.45 W/kg
 - SAR variation= 1.69 % $< 20\%$

LTE Band 4 (20MHz Bandwidth):

Power back off (On/Off)	Mode	Test Position	Channel	Freq. (MHz)	Dist. (mm)	UL RB Allocation	UL RB Start	Power (dBm)		Measured 1g SAR (W/kg)	Reported SAR(W/kg)	Note	Plots
								Tune up limit	Measured				
On	QPSK	Edge1	20050	1720.0	0	1	0	18.0	17.5	0.678	0.761		
			20050	1720.0	0	50	0	18.0	17.1	0.594	0.731		
		Rear	20050	1720.0	0	1	0	18.0	17.5	1.110	1.245		
			20050	1720.0	0	1	49	18.0	17.1	0.940	1.156		
			20050	1720.0	0	1	99	18.0	17.0	0.960	1.209		
			20050	1720.0	0	50	0	18.0	17.1	0.991	1.219		
			20050	1720.0	0	50	24	18.0	16.9	0.952	1.226		
			20050	1720.0	0	50	49	18.0	16.9	0.946	1.219		
			20050	1720.0	0	100	0	18.0	17.0	0.974	1.226		
			20175	1732.5	0	1	0	18.0	17.4	1.120	1.286		1
			20175	1732.5	0	50	0	18.0	17.0	0.995	1.253		
			20300	1745.0	0	1	0	18.0	17.4	1.090	1.251		
			20300	1745.0	0	50	0	18.0	17.0	0.981	1.235		
			20175	1732.5	0	1	0	18.0	17.4	1.110	1.274	3	
Off	QPSK	Edge1	20050	1720.0	18	1	0	24.0	23.6	0.533	0.587		
			20050	1720.0	18	50	0	24.0	22.8	0.370	0.488		
		Rear	20050	1720.0	18	1	0	24.0	23.6	0.452	0.498		
			20050	1720.0	18	50	0	24.0	22.8	0.313	0.413		
		Edge4	20050	1720.0	0	1	0	24.0	23.6	0.781	0.860		
			20050	1720.0	0	1	49	24.0	23.0	0.628	0.791		
			20050	1720.0	0	1	99	24.0	23.0	0.626	0.788		
			20050	1720.0	0	50	0	24.0	22.8	0.563	0.742		
			20050	1720.0	0	100	0	24.0	22.6	0.510	0.704		
			20175	1732.5	0	1	0	24.0	23.5	0.744	0.835		
			20300	1745.0	0	1	0	24.0	23.5	0.629	0.706		

Note(s):

- When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. (Per KDB 941225 D05 v02r05)
- The highest reported SAR for 1 RB and 50% RB allocation are ≥ 0.8 W/kg, SAR is required of 100% RB. Testing for the remaining required channels is not needed because the reported SAR for 100% RB Allocation < 1.45 W/kg. (Per KDB 941225 D05 v02r05)
- Repeated measurements are required only when the measured SAR is ≥ 0.80 W/kg. If the measured SAR values are < 1.45 W/kg with $\leq 20\%$ variation, only one repeated measurement is required to reaffirm that the results are not expected to have substantial variations, which may introduce significant compliance concerns. (Per KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04)
 - Original SAR = 1.120 W/kg, therefore two times repeat SAR is required.
 - Repeat SAR = 1.110 W/kg < 1.45 W/kg
 - SAR variation= 0.89 % $< 20\%$

LTE Band 5 (10MHz Bandwidth):

Power back off (On/Off)	Mode	Test Position	Channel	Freq. (MHz)	Dist. (mm)	UL RB Allocation	UL RB Start	Power (dBm)		Measured 1g SAR (W/kg)	Reported SAR(W/kg)	Note	Plot.
								Tune up limit	Measured				
On	QPSK	Edge1	20600	884.0	0	1	0	20.0	19.0	0.484	0.608		
			20600	884.0	0	25	0	20.0	18.9	0.474	0.611		
		Rear	20600	884.0	0	1	0	20.0	19.0	1.000	1.259		1
			20600	884.0	0	1	24	20.0	19.0	0.998	1.256		
			20600	884.0	0	1	49	20.0	18.9	0.974	1.255		
			20600	884.0	0	25	0	20.0	18.9	0.976	1.257		
			20600	884.0	0	25	12	20.0	18.9	0.975	1.256		
			20600	884.0	0	25	24	20.0	18.9	0.973	1.253		
			20600	884.0	0	50	0	20.0	18.8	0.950	1.252		
			20450	829.0	0	1	0	20.0	18.7	0.887	1.197		
			20450	829.0	0	25	0	20.0	18.6	0.843	1.164		
			20525	836.5	0	1	0	20.0	18.7	0.848	1.144		
			20525	836.5	0	25	0	20.0	18.6	0.830	1.146		
			20600	884.0	0	1	0	20.0	19.0	0.953	1.200	3	
Off	QPSK	Edge1	20600	884.0	17	1	0	24.0	23.2	0.424	0.510		
			20600	884.0	17	25	0	24.0	22.3	0.338	0.500		
		Rear	20600	884.0	15	1	0	24.0	23.2	0.307	0.369		
			20600	884.0	15	25	0	24.0	22.3	0.240	0.355		
		Edge2	20600	884.0	0	1	0	24.0	23.2	0.018	0.021		
			20600	884.0	0	25	0	24.0	22.3	0.013	0.020		
		Edge3	20600	884.0	0	1	0	23.5	23.2	0.029	0.031		
			20600	884.0	0	25	0	23.5	22.3	0.022	0.028		
		Edge4	20600	884.0	0	1	0	23.5	23.2	0.166	0.178		
			20600	884.0	0	25	0	23.5	22.3	0.129	0.170		

Note(s):

- When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. (Per KDB 941225 D05 v02r05)
- The highest reported SAR for 1 RB and 50% RB allocation are ≥ 0.8 W/kg, SAR is required of 100% RB. Testing for the remaining required channels is not needed because the reported SAR for 100% RB Allocation < 1.45 W/kg. (Per KDB 941225 D05 v02r05)
- Repeated measurements are required only when the measured SAR is ≥ 0.80 W/kg. If the measured SAR values are < 1.45 W/kg with $\leq 20\%$ variation, only one repeated measurement is required to reaffirm that the results are not expected to have substantial variations, which may introduce significant compliance concerns. (Per KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04)
 - Original SAR = 1.000 W/kg, therefore two times repeat SAR is required.
 - Repeat SAR = 0.953 W/kg < 1.45 W/kg
 - SAR variation= 4.7 % $< 20\%$

LTE Band 7 (20MHz Bandwidth):

Power back off (On/Off)	Mode	Test Position	Channel	Freq. (MHz)	Dist. (mm)	UL RB Allocation	UL RB Start	Power (dBm)		Measured 1g SAR (W/kg)	Reported SAR(W/kg)	Note	Plot.
								Tune up limit	Measured				
On	QPSK	Edge1	21100	2535.0	0	1	0	16.5	15.5	1.100	1.385		1
			21100	2535.0	0	1	49	16.5	15.4	1.070	1.378		
			21100	2535.0	0	1	99	16.5	15.0	0.933	1.318		
			21100	2535.0	0	50	0	16.5	15.4	1.050	1.353		
			21100	2535.0	0	50	24	16.5	15.3	1.040	1.371		
			21100	2535.0	0	50	49	16.5	15.3	1.050	1.384		
			21100	2535.0	0	100	0	16.5	15.4	1.040	1.340		
			20850	2510.0	0	1	0	16.5	15.3	1.010	1.331		
			20850	2510.0	0	50	0	16.5	14.8	0.859	1.271		
			21350	2560.0	0	1	0	16.5	15.5	1.080	1.360		
			21350	2560.0	0	50	0	16.5	14.8	0.865	1.279		
		Rear	21100	2535.0	0	1	0	16.5	15.5	1.010	1.272	3	
			21100	2535.0	0	1	0	16.5	15.5	0.985	1.240		
			21100	2535.0	0	1	49	16.5	15.4	0.926	1.193		
			21100	2535.0	0	1	99	16.5	15.0	0.900	1.271		
			21100	2535.0	0	50	0	16.5	15.4	0.966	1.244		
			21100	2535.0	0	50	24	16.5	15.3	0.800	1.055		
			21100	2535.0	0	50	49	16.5	15.3	0.774	1.020		
			21100	2535.0	0	100	0	16.5	15.4	0.789	1.016		
			20850	2510.0	0	1	0	16.5	15.3	0.728	0.960		
			20850	2510.0	0	50	0	16.5	14.8	0.662	0.979		
Off	QPSK	Edge1	21100	2535.0	18	1	0	23.0	22.4	0.304	0.349		
			21100	2535.0	18	50	0	23.0	21.4	0.243	0.351		
		Rear	21100	2535.0	18	1	0	23.0	22.4	0.267	0.307		
			21100	2535.0	18	50	0	23.0	21.4	0.199	0.288		
		Edge4	21100	2535.0	0	1	0	23.0	22.4	0.217	0.249		
			21100	2535.0	0	50	0	23.0	21.4	0.209	0.302		

Note(s):

- When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. (Per KDB 941225 D05 v02r05)
- The highest reported SAR for 1 RB and 50% RB allocation are ≥ 0.8 W/kg, SAR is required of 100% RB. Testing for the remaining required channels is not needed because the reported SAR for 100% RB Allocation < 1.45 W/kg. (Per KDB 941225 D05 v02r05)
- Repeated measurements are required only when the measured SAR is ≥ 0.80 W/kg. If the measured SAR values are < 1.45 W/kg with $\leq 20\%$ variation, only one repeated measurement is required to reaffirm that the results are not expected to have substantial variations, which may introduce significant compliance concerns. (Per KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04)
 - Original SAR = 1.100 W/kg, therefore two times repeat SAR is required.
 - Repeat SAR = 1.010 W/kg < 1.45 W/kg
 - SAR variation= 8.18 % $< 20\%$

LTE Band 12 (10MHz Bandwidth):

Power back off (On/Off)	Mode	Test Position	Channel	Freq. (MHz)	Dist. (mm)	UL RB Allocation	UL RB Start	Power (dBm)		Measured 1g SAR (W/kg)	Reported SAR(W/kg)	Note	Plot.
								Tune up limit	Measured				
On	QPSK	Edge1	23060	704.0	0	1	0	20.5	19.7	0.748	0.899		
			23060	704.0	0	1	24	20.5	19.6	0.719	0.885		
			23060	704.0	0	1	49	20.5	19.5	0.687	0.865		
			23060	704.0	0	25	0	20.5	19.7	0.736	0.885		
			23060	704.0	0	25	12	20.5	19.5	0.719	0.905		
			23060	704.0	0	25	24	20.5	19.5	0.707	0.890		
			23060	704.0	0	50	0	20.5	19.6	0.730	0.898		
			23095	707.5	0	1	0	20.5	19.6	0.704	0.866		
			23095	707.5	0	25	0	20.5	19.6	0.685	0.843		
			23130	711.0	0	1	0	20.5	19.6	0.701	0.862		
			23130	711.0	0	25	0	20.5	19.5	0.671	0.845		
		Rear	23060	704.0	0	1	0	20.5	19.7	1.020	1.226		
			23060	704.0	0	1	24	20.5	19.6	0.977	1.202		
			23060	704.0	0	1	49	20.5	19.5	0.969	1.220		
			23060	704.0	0	25	0	20.5	19.7	1.000	1.202		
			23060	704.0	0	25	12	20.5	19.5	0.969	1.220		
			23060	704.0	0	25	24	20.5	19.5	0.970	1.221		
			23060	704.0	0	50	0	20.5	19.6	0.988	1.216		
			23095	707.5	0	1	0	20.5	19.6	1.010	1.243		1
			23095	707.5	0	25	0	20.5	19.6	0.988	1.216		
			23130	711.0	0	1	0	20.5	19.6	1.010	1.243		
			23130	711.0	0	25	0	20.5	19.5	0.984	1.239		
			23060	704.0	0	1	0	20.5	19.7	0.984	1.183	3	
Off	QPSK	Edge1	23060	704.0	18	1	0	24.0	23.3	0.206	0.242		
			23060	704.0	18	25	0	24.0	22.4	0.166	0.240		
		Rear	23060	704.0	18	1	0	24.0	23.3	0.216	0.254		
			23060	704.0	18	25	0	24.0	22.4	0.171	0.247		
		Edge2	23060	704.0	0	1	0	24.0	23.3	0.091	0.107		
			23060	704.0	0	25	0	24.0	22.4	0.066	0.095		
		Edge3	23060	704.0	0	1	0	24.0	23.3	0.005	0.006		
			23060	704.0	0	25	0	24.0	22.4	0.010	0.014		
		Edge4	23060	704.0	0	1	0	24.0	23.3	0.123	0.145		
			23060	704.0	0	25	0	24.0	22.4	0.087	0.126		

Note(s):

- When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. (Per KDB 941225 D05 v02r05)
- The highest reported SAR for 1 RB and 50% RB allocation are ≥ 0.8 W/kg, SAR is required of 100% RB. Testing for the remaining required channels is not needed because the reported SAR for 100% RB Allocation < 1.45 W/kg. (Per KDB 941225 D05 v02r05)
- Repeated measurements are required only when the measured SAR is ≥ 0.80 W/kg. If the measured SAR values are < 1.45 W/kg with $\leq 20\%$ variation, only one repeated measurement is required to reaffirm that the results are not expected to have substantial variations, which may introduce significant compliance concerns. (Per KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04)
 - Original SAR = 1.020 W/kg, therefore two times repeat SAR is required.
 - Repeat SAR = 0.984 W/kg < 1.45 W/kg
 - SAR variation= 3.53 % $< 20\%$

LTE Band 13 (10MHz Bandwidth):

Power back off (On/Off)	Mode	Test Position	Channel	Freq. (MHz)	Dist. (mm)	UL RB Allocation	UL RB Start	Power (dBm)		Measured 1g SAR (W/kg)	Reported SAR(W/kg)	Note	Plot.
								Tune up limit	Measured				
On	QPSK	Edge1	23230	782.0	0	1	0	19.0	17.5	0.439	0.620		
			23230	782.0	0	25	0	19.0	17.4	0.442	0.639		
		Rear	23230	782.0	0	1	0	19.0	17.5	0.831	1.174		1
			23230	782.0	0	1	24	19.0	17.4	0.792	1.145		
			23230	782.0	0	1	49	19.0	17.3	0.778	1.151		
			23230	782.0	0	25	0	19.0	17.4	0.794	1.148		
			23230	782.0	0	25	12	19.0	17.3	0.785	1.161		
			23230	782.0	0	25	24	19.0	17.3	0.772	1.142		
			23230	782.0	0	50	0	19.0	17.4	0.807	1.166		
			23230	782.0	0	1	0	19.0	17.5	0.817	1.154	3	
Off	QPSK	Edge1	23230	782.0	18	1	0	24.0	22.9	0.206	0.265		
			23230	782.0	18	25	0	24.0	22.1	0.133	0.206		
		Rear	23230	782.0	18	1	0	24.0	22.9	0.264	0.340		
			23230	782.0	18	25	0	24.0	22.1	0.221	0.342		
		Edge2	23230	782.0	0	1	0	24.0	22.9	0.075	0.097		
			23230	782.0	0	25	0	24.0	22.1	0.044	0.068		
		Edge3	23230	782.0	0	1	0	24.0	22.9	0.075	0.097		
			23230	782.0	0	25	0	24.0	22.1	0.044	0.068		
		Edge4	23230	782.0	0	1	0	24.0	22.9	0.150	0.193		
			23230	782.0	0	25	0	24.0	22.1	0.117	0.181		

Note(s):

- When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. (Per KDB 941225 D05 v02r05)
- The highest reported SAR for 1 RB and 50% RB allocation are ≥ 0.8 W/kg, SAR is required of 100% RB. Testing for the remaining required channels is not needed because the reported SAR for 100% RB Allocation < 1.45 W/kg. (Per KDB 941225 D05 v02r05)
- Repeated measurements are required only when the measured SAR is ≥ 0.80 W/kg. If the measured SAR values are < 1.45 W/kg with $\leq 20\%$ variation, only one repeated measurement is required to reaffirm that the results are not expected to have substantial variations, which may introduce significant compliance concerns. (Per KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04)
 - Original SAR = 0.831 W/kg, therefore two times repeat SAR is required.
 - Repeat SAR = 0.817 W/kg < 1.45 W/kg
 - SAR variation= 1.68 % $< 20\%$

LTE Band 25 (20MHz Bandwidth):

Power back off (On/Off)	Mode	Test Position	Channel	Freq. (MHz)	Dist. (mm)	UL RB Allocation	UL RB Start	Power (dBm)		Measured 1g SAR (W/kg)	Reported SAR(W/kg)	Note	Plot.
								Tune up limit	Measured				
On	QPSK	Edge1	26140	1860.0	0	1	0	17.5	17.2	0.674	0.722		
			26140	1860.0	0	50	0	17.5	16.8	0.607	0.713		
		Rear	26140	1860.0	0	1	0	17.5	17.2	1.230	1.306		1
			26140	1860.0	0	1	49	17.5	16.6	1.020	1.255		
			26140	1860.0	0	1	99	17.5	16.7	1.030	1.238		
			26140	1860.0	0	50	0	17.5	16.8	1.100	1.292		
			26140	1860.0	0	50	24	17.5	16.5	1.010	1.272		
			26140	1860.0	0	50	49	17.5	16.6	0.996	1.225		
			26140	1860.0	0	100	0	17.5	16.7	1.070	1.286		
			26365	1882.5	0	1	0	17.5	16.9	1.120	1.286		
			26365	1882.5	0	50	0	17.5	16.5	0.995	1.253		
			26590	1905.0	0	1	0	17.5	17.0	1.160	1.302		
			26590	1905.0	0	50	0	17.5	16.7	1.060	1.274		
			26140	1860.0	0	1	0	17.5	17.2	1.200	1.286	3	
Off	QPSK	Edge1	26140	1860.0	18	1	0	24.0	23.5	0.436	0.489		
			26140	1860.0	18	50	0	24.0	22.7	0.277	0.374		
		Rear	26140	1860.0	18	1	0	24.0	23.5	0.468	0.525		
			26140	1860.0	18	50	0	24.0	22.7	0.337	0.455		
		Edge4	26140	1860.0	0	1	0	24.0	23.5	0.189	0.212		
			26140	1860.0	0	50	0	24.0	22.7	0.117	0.158		

Note(s):

- When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. (Per KDB 941225 D05 v02r05)
- The highest reported SAR for 1 RB and 50% RB allocation are ≥ 0.8 W/kg, SAR is required of 100% RB. Testing for the remaining required channels is not needed because the reported SAR for 100% RB Allocation < 1.45 W/kg. (Per KDB 941225 D05 v02r05)
- Repeated measurements are required only when the measured SAR is ≥ 0.80 W/kg. If the measured SAR values are < 1.45 W/kg with $\leq 20\%$ variation, only one repeated measurement is required to reaffirm that the results are not expected to have substantial variations, which may introduce significant compliance concerns. (Per KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04)
 - Original SAR = 1.23 W/kg, therefore two times repeat SAR is required.
 - Repeat SAR = 1.2 W/kg < 1.45 W/kg
 - SAR variation= 2.44 % $< 20\%$

LTE Band 26 (15MHz Bandwidth):

Power back off (On/Off)	Mode	Test Position	Channel	Freq. (MHz)	Dist. (mm)	UL RB Allocation	UL RB Start	Power (dBm)		Measured 1g SAR (W/kg)	Reported SAR(W/kg)	Note	Plot.
								Tune up limit	Measured				
On	QPSK	Edge1	26765	821.5	0	1	0	20.0	19.7	0.572	0.613		
			26765	821.5	0	36	0	20.0	19.7	0.554	0.594		
		Rear	26765	821.5	0	1	0	20.0	19.7	1.040	1.114		1
			26765	821.5	0	1	37	20.0	19.6	0.955	1.059		
			26765	821.5	0	1	74	20.0	19.4	0.892	1.034		
			26765	821.5	0	36	0	20.0	19.7	0.998	1.079		
			26765	821.5	0	36	18	20.0	19.6	0.977	1.061		
			26765	821.5	0	36	35	20.0	19.5	0.940	1.052		
			26765	821.5	0	75	0	20.0	19.6	0.973	1.072		
			26865	831.0	0	1	0	20.0	19.6	0.977	1.061		
			26865	831.0	0	36	0	20.0	19.5	0.963	1.081		
			26965	841.5	0	1	0	20.0	19.6	1.010	1.097		
			26965	841.5	0	36	0	20.0	19.6	1.010	1.107		
			26765	821.5	0	1	0	20.0	19.7	1.030	1.104	3	
Off	QPSK	Edge1	26765	821.5	18	1	0	24.0	24.0	0.338	0.338		
			26765	821.5	18	36	0	24.0	23.0	0.271	0.341		
		Rear	26765	821.5	18	1	0	24.0	24.0	0.347	0.347		
			26765	821.5	18	36	0	24.0	23.0	0.267	0.336		
		Edge2	26765	821.5	0	1	0	24.0	24.0	0.068	0.068		
			26765	821.5	0	36	0	24.0	23.0	0.045	0.056		
		Edge3	26765	821.5	0	1	0	24.0	24.0	0.019	0.019		
			26765	821.5	0	36	0	24.0	23.0	0.013	0.016		
		Edge4	26765	821.5	0	1	0	24.0	24.0	0.147	0.147		
			26765	821.5	0	36	0	24.0	23.0	0.120	0.151		

Note(s):

- When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. (Per KDB 941225 D05 v02r05)
- The highest reported SAR for 1 RB and 50% RB allocation are ≥ 0.8 W/kg, SAR is required of 100% RB. Testing for the remaining required channels is not needed because the reported SAR for 100% RB Allocation < 1.45 W/kg. (Per KDB 941225 D05 v02r05)
- Repeated measurements are required only when the measured SAR is ≥ 0.80 W/kg. If the measured SAR values are < 1.45 W/kg with $\leq 20\%$ variation, only one repeated measurement is required to reaffirm that the results are not expected to have substantial variations, which may introduce significant compliance concerns. (Per KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04)
 - Original SAR = 1.040 W/kg, therefore two times repeat SAR is required.
 - Repeat SAR = 1.030 W/kg < 1.45 W/kg
 - SAR variation= 0.96 % $< 20\%$

LTE Band 30 (10MHz Bandwidth):

Power back off (On/Off)	Mode	Test Position	Channel	Freq. (MHz)	Dist. (mm)	UL RB Allocation	UL RB Start	Power (dBm)		Measured 1g SAR (W/kg)	Reported SAR(W/kg)	Note	Plot
								Tune up limit	Measured				
On	QPSK	Edge1	27710	2310.0	0	1	0	17.0	15.8	0.956	1.260		1
			27710	2310.0	0	1	24	17.0	15.8	0.941	1.240		
			27710	2310.0	0	1	49	17.0	15.6	0.912	1.259		
			27710	2310.0	0	25	0	17.0	15.6	0.896	1.237		
			27710	2310.0	0	25	12	17.0	15.5	0.877	1.239		
			27710	2310.0	0	25	24	17.0	15.6	0.893	1.233		
			27710	2310.0	0	50	0	17.0	15.5	0.884	1.249		
		Rear	27710	2310.0	0	1	0	17.0	15.8	0.878	1.157	3	
			27710	2310.0	0	1	0	17.0	15.8	0.792	1.044		
			27710	2310.0	0	1	24	17.0	15.8	0.815	1.074		
			27710	2310.0	0	1	49	17.0	15.6	0.789	1.089		
			27710	2310.0	0	25	0	17.0	15.6	0.783	1.081		
			27710	2310.0	0	25	12	17.0	15.5	0.796	1.124		
			27710	2310.0	0	25	24	17.0	15.6	0.792	1.093		
			27710	2310.0	0	50	0	17.0	15.5	0.772	1.090		
Off	QPSK	Edge1	27710	2310.0	18	1	0	23.0	22.2	0.333	0.400		
			27710	2310.0	18	25	0	23.0	21.4	0.263	0.380		
		Rear	27710	2310.0	18	1	0	23.0	22.2	0.220	0.264		
			27710	2310.0	18	25	0	23.0	21.4	0.171	0.247		
		Edge4	27710	2310.0	0	1	0	23.0	22.2	0.485	0.583		
			27710	2310.0	0	25	0	23.0	21.4	0.389	0.562		

Note(s):

- When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. (Per KDB 941225 D05 v02r05)
- The highest reported SAR for 1 RB and 50% RB allocation are ≥ 0.8 W/kg, SAR is required of 100% RB. Testing for the remaining required channels is not needed because the reported SAR for 100% RB Allocation < 1.45 W/kg. (Per KDB 941225 D05 v02r05)
- Repeated measurements are required only when the measured SAR is ≥ 0.80 W/kg. If the measured SAR values are < 1.45 W/kg with $\leq 20\%$ variation, only one repeated measurement is required to reaffirm that the results are not expected to have substantial variations, which may introduce significant compliance concerns. (Per KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04)
 - Original SAR = 0.956 W/kg, therefore two times repeat SAR is required.
 - Repeat SAR = 0.878 W/kg < 1.45 W/kg
 - SAR variation= 8.16 % $< 20\%$

LTE Band 41 (20MHz Bandwidth):

Power back off (On/Off)	Mode	Test Position	Channel	Freq. (MHz)	Dist. (mm)	UL RB Allocation	UL RB Start	Power (dBm)		Measured 1g SAR (W/kg)	Reported SAR(W/kg)	Note	Plot
								Tune up limit	Measured				
On	QPSK	Edge1	40620	2593.0	0	1	0	20.0	19.5	1.060	1.189		1
			40620	2593.0	0	1	49	20.0	19.4	1.030	1.183		
			40620	2593.0	0	1	99	20.0	19.3	0.949	1.115		
			40620	2593.0	0	50	0	20.0	19.5	1.040	1.167		
			40620	2593.0	0	50	24	20.0	19.4	1.030	1.183		
			40620	2593.0	0	50	49	20.0	19.4	1.020	1.171		
			40620	2593.0	0	100	0	20.0	19.3	1.010	1.187		
			39750	2506.0	0	1	0	20.0	18.6	0.765	1.056		
			39750	2506.0	0	50	0	20.0	18.6	0.761	1.050		
			41490	2680.0	0	1	0	20.0	19.3	0.972	1.142		
			41490	2680.0	0	50	0	20.0	19.3	0.964	1.133		
			40620	2593.0	0	1	0	20.0	19.5	1.040	1.167	3	
		Rear	40620	2593.0	0	1	0	20.0	19.5	0.955	1.072		
			40620	2593.0	0	1	49	20.0	19.4	0.959	1.101		
			40620	2593.0	0	1	99	20.0	19.3	0.878	1.032		
			40620	2593.0	0	50	0	20.0	19.5	0.969	1.087		
			40620	2593.0	0	50	24	20.0	19.4	0.962	1.105		
			40620	2593.0	0	50	49	20.0	19.4	0.952	1.093		
			40620	2593.0	0	100	0	20.0	19.3	0.956	1.123		
			39750	2506.0	0	1	0	20.0	18.6	0.733	1.012		
			39750	2506.0	0	50	0	20.0	18.6	0.706	0.975		
			41490	2680.0	0	1	0	20.0	19.3	0.842	0.989		
			41490	2680.0	0	50	0	20.0	19.3	0.839	0.986		
Off	QPSK	Edge1	40620	2593.0	18	1	0	23.0	22.6	0.147	0.161		
			40620	2593.0	18	50	0	23.0	21.6	0.137	0.189		
		Rear	40620	2593.0	18	1	0	23.0	22.6	0.141	0.155		
			40620	2593.0	18	50	0	23.0	21.6	0.138	0.190		
		Edge4	40620	2593.0	0	1	0	23.0	22.6	0.096	0.105		
			40620	2593.0	0	50	0	23.0	21.6	0.081	0.111		

Note(s):

- When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. (Per KDB 941225 D05 v02r05)
- The highest reported SAR for 1 RB and 50% RB allocation are ≥ 0.8 W/kg, SAR is required of 100% RB. Testing for the remaining required channels is not needed because the reported SAR for 100% RB Allocation < 1.45 W/kg. (Per KDB 941225 D05 v02r05)
- Repeated measurements are required only when the measured SAR is ≥ 0.80 W/kg. If the measured SAR values are < 1.45 W/kg with $\leq 20\%$ variation, only one repeated measurement is required to reaffirm that the results are not expected to have substantial variations, which may introduce significant compliance concerns. (Per KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04)
 - Original SAR = 1.060 W/kg, therefore two times repeat SAR is required.
 - Repeat SAR = 1.040 W/kg < 1.45 W/kg
 - SAR variation= 1.89 % $< 20\%$

18 Simultaneous Transmission SAR Analysis

KDB 447498 D01 General RF Exposure Guidance v05, introduces a new formula for calculating the SAR to Peak Location Ratio (SPLSR) between pairs of simultaneously transmitting antennas:

$$SPLSR = (SAR_1 + SAR_2)^{1.5} / R_i$$

Where:

SAR₁ is the highest Reported or estimated SAR for the first of a pair of simultaneous transmitting antennas, in a specific test operating mode and exposure condition

SAR₂ is the highest Reported or estimated SAR for the second of a pair of simultaneous transmitting antennas, in the same test operating mode and exposure condition as the first

R_i is the separation distance between the pair of simultaneous transmitting antennas. When the SAR is measured, for both antennas in the pair, it is determined by the actual x, y and z coordinates in the 1-g SAR for each SAR peak location, based on the extrapolated and interpolated result in the zoom scan measurement, using the formula of $[(x_1 - x_2)^2 + (y_1 - y_2)^2 + (z_1 - z_2)^2]$

A new threshold of 0.04 is also introduced in the draft KDB. Thus, in order for a pair of simultaneous transmitting antennas with the sum of 1-g SAR > 1.6 W/kg to qualify for exemption from Simultaneous Transmission SAR measurements, it has to satisfy the condition of:

$$(SAR_1 + SAR_2)^{1.5} / R_i < 0.04$$

18.1 Estimated SAR for Simultaneous Transmission SAR Analysis

Considerations for SAR estimation

1. When standalone SAR test exclusion applies, standalone SAR must also be estimated to determine simultaneous transmission SAR test exclusion.
2. Dedicated Host Approach criteria for SAR test exclusion is likewise applied to SAR estimation, with certain distinctions between test exclusion and SAR estimation:
 - When the separation distance from the antenna to an adjacent edge is ≤ 5 mm, a distance of 5 mm is applied for SAR estimation; this is the same between test exclusion and SAR estimation calculations.
 - When the separation distance from the antenna to an adjacent edge is > 5 mm but ≤ 50 mm, the actual antenna-to-edge separation distance is applied for SAR estimation.
 - When the minimum test separation distance is > 50 mm, the estimated SAR value is 0.4 W/kg

18.2 Sum of the SAR for Simultaneous Transmission Analysis

All Wi-Fi 1-g SAR values were taken from results record in SAR report T150817W03-A-SF, submitted under FCC ID QDS-BRCM1087.

18.2.1 Sum of the SAR for WLAN & WWAN

WCDMA Band II+2.4G Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
	WCDMA Band II	Wi-Fi Main 2.4 GHz Band	Wi-Fi Aux 2.4 GHz Band		
Rear	1.397	0.952	1.225	3.574	Yes
Edge 1	0.773	0.550	0.331	1.654	Yes

Note(s):

As the Sum of the SAR is greater than 1.6W/Kg, so SPLSR is required.

WCDMA Band II +5G Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
	WCDMA Band II	Wi-Fi Main 5 GHz Band	Wi-Fi Aux 5 GHz Band		
Rear	1.397	0.994	1.150	3.541	Yes
Edge 1	0.773	0.912	0.775	2.460	Yes

Note(s):

As the Sum of the SAR is greater than 1.6W/Kg, so SPLSR is required.

WCDMA Band IV+2.4G Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
	WCDMA Band IV	Wi-Fi Main 2.4 GHz Band	Wi-Fi Aux 2.4 GHz Band		
Rear	1.284	0.952	1.225	3.461	Yes
Edge 1	0.676	0.550	0.331	1.557	No

Note(s):

As the Sum of the SAR is greater than 1.6W/Kg, so SPLSR is required.

WCDMA Band IV +5G Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
	WCDMA Band II	Wi-Fi Main 5 GHz Band	Wi-Fi Aux 5 GHz Band		
Rear	1.284	0.994	1.150	3.428	Yes
Edge 1	0.676	0.912	0.775	2.363	Yes

Note(s):

As the Sum of the SAR is greater than 1.6W/Kg, so SPLSR is not required.

WCDMA Band V +2.4G Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
	WCDMA Band V	Wi-Fi Main 2.4 GHz Band	Wi-Fi Aux 2.4 GHz Band		
Rear	1.035	0.952	1.225	3.212	Yes
Edge 1	0.571	0.550	0.331	1.452	No

Note(s):

As the Sum of the SAR is greater than 1.6W/Kg, so SPLSR is required.

WCDMA Band V +5G Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
	WCDMA Band V	Wi-Fi Main 5 GHz Band	Wi-Fi Aux 5 GHz Band		
Rear	1.035	0.994	1.150	3.179	Yes
Edge 1	0.571	0.912	0.775	2.258	Yes

Note(s):

As the Sum of the SAR is greater than 1.6W/Kg, so SPLSR is required.

LTE Band 2 +2.4G Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
	LTE Band 2	Wi-Fi Main 2.4 GHz Band	Wi-Fi Aux 2.4 GHz Band		
Rear	1.253	0.952	1.225	3.430	Yes
Edge 1	0.745	0.550	0.331	1.626	Yes

Note(s):

As the Sum of the SAR is greater than 1.6W/Kg, so SPLSR is required.

LTE Band 2 +5G Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
	LTE Band 2	Wi-Fi Main 5 GHz Band	Wi-Fi Aux 5 GHz Band		
Rear	1.253	0.994	1.150	3.397	Yes
Edge 1	0.745	0.912	0.775	2.432	Yes

Note(s):

As the Sum of the SAR is greater than 1.6W/Kg, so SPLSR is required.

LTE Band 4 +2.4G Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
	LTE Band 4	Wi-Fi Main 2.4 GHz Band	Wi-Fi Aux 2.4 GHz Band		
Rear	1.286	0.952	1.225	3.463	Yes
Edge 1	0.761	0.550	0.331	1.642	Yes

Note(s):

As the Sum of the SAR is greater than 1.6W/Kg, so SPLSR is required.

LTE Band 4 +5G Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
	LTE Band 4	Wi-Fi Main 5 GHz Band	Wi-Fi Aux 5 GHz Band		
Rear	1.286	0.994	1.150	3.430	Yes
Edge 1	0.761	0.912	0.775	2.448	Yes

Note(s):

As the Sum of the SAR is greater than 1.6W/Kg, so SPLSR is required.

LTE Band 5 +2.4G Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
	LTE Band 5	Wi-Fi Main 2.4 GHz Band	Wi-Fi Aux 2.4 GHz Band		
Rear	1.259	0.952	1.225	3.436	Yes
Edge 1	0.611	0.550	0.331	1.492	No

Note(s):

As the Sum of the SAR is greater than 1.6W/Kg, so SPLSR is required.

LTE Band 5 +5G Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
	LTE Band 5	Wi-Fi Main 5 GHz Band	Wi-Fi Aux 5 GHz Band		
Rear	1.259	0.994	1.150	3.403	Yes
Edge 1	0.611	0.912	0.775	2.298	Yes

Note(s):

As the Sum of the SAR is greater than 1.6W/Kg, so SPLSR is required.

LTE Band 7 +2.4G Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
	LTE Band 7	Wi-Fi Main 2.4 GHz Band	Wi-Fi Aux 2.4 GHz Band		
Rear	1.271	0.952	1.225	3.448	Yes
Edge 1	1.385	0.550	0.331	2.266	Yes

Note(s):

As the Sum of the SAR is greater than 1.6W/Kg, so SPLSR is required.

LTE Band 7 +5G Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
	LTE Band 7	Wi-Fi Main 5 GHz Band	Wi-Fi Aux 5 GHz Band		
Rear	1.271	0.994	1.150	3.415	Yes
Edge 1	1.385	0.912	0.775	3.072	Yes

Note(s):

As the Sum of the SAR is greater than 1.6W/Kg, so SPLSR is required.

LTE Band 12 +2.4G Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
	LTE Band 12	Wi-Fi Main 2.4 GHz Band	Wi-Fi Aux 2.4 GHz Band		
Rear	1.243	0.952	1.225	3.420	Yes
Edge 1	0.905	0.550	0.331	1.786	Yes

Note(s):

As the Sum of the SAR is greater than 1.6W/Kg, so SPLSR is required.

LTE Band 12 +5G Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
	LTE Band 12	Wi-Fi Main 5 GHz Band	Wi-Fi Aux 5 GHz Band		
Rear	1.243	0.994	1.150	3.387	Yes
Edge 1	0.905	0.912	0.775	2.592	Yes

Note(s):

As the Sum of the SAR is greater than 1.6W/Kg, so SPLSR is required.

LTE Band 13 +2.4G Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
	LTE Band 13	Wi-Fi Main 2.4 GHz Band	Wi-Fi Aux 2.4 GHz Band		
Rear	1.174	0.952	1.225	3.351	Yes
Edge 1	0.639	0.550	0.331	1.520	No

Note(s):

As the Sum of the SAR is greater than 1.6W/Kg, so SPLSR is required.

LTE Band 13 +5G Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
	LTE Band 13	Wi-Fi Main 5 GHz Band	Wi-Fi Aux 5 GHz Band		
Rear	1.174	0.994	1.150	3.318	Yes
Edge 1	0.639	0.912	0.775	2.326	Yes

Note(s):

As the Sum of the SAR is greater than 1.6W/Kg, so SPLSR is required.

LTE Band 25 +2.4G Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
	LTE Band 25	Wi-Fi Main 2.4 GHz Band	Wi-Fi Aux 2.4 GHz Band		
Rear	1.306	0.952	1.225	3.483	Yes
Edge 1	0.722	0.550	0.331	1.603	Yes

Note(s):

As the Sum of the SAR is greater than 1.6W/Kg, so SPLSR is required.

LTE Band 25 +5G Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
	LTE Band 25	Wi-Fi Main 5 GHz Band	Wi-Fi Aux 5 GHz Band		
Rear	1.306	0.994	1.150	3.450	Yes
Edge 1	0.722	0.912	0.775	2.409	Yes

Note(s):

As the Sum of the SAR is greater than 1.6W/Kg, so SPLSR is required.

LTE Band 26 +2.4G Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
	LTE Band 26	Wi-Fi Main 2.4 GHz Band	Wi-Fi Aux 2.4 GHz Band		
Rear	1.114	0.952	1.225	3.291	Yes
Edge 1	0.613	0.550	0.331	1.494	No

Note(s):

As the Sum of the SAR is greater than 1.6W/Kg, so SPLSR is required.

LTE Band 26 +5G Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
	LTE Band 25	Wi-Fi Main 5 GHz Band	Wi-Fi Aux 5 GHz Band		
Rear	1.114	0.994	1.150	3.258	Yes
Edge 1	0.613	0.912	0.775	2.300	Yes

Note(s):

As the Sum of the SAR is greater than 1.6W/Kg, so SPLSR is required.

LTE Band 30 +2.4G Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
	LTE Band 30	Wi-Fi Main 2.4 GHz Band	Wi-Fi Aux 2.4 GHz Band		
Rear	1.124	0.952	1.225	3.301	Yes
Edge 1	1.260	0.550	0.331	2.141	Yes

Note(s):

As the Sum of the SAR is greater than 1.6W/Kg, so SPLSR is required.

LTE Band 30 +5G Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
	LTE Band 30	Wi-Fi Main 5 GHz Band	Wi-Fi Aux 5 GHz Band		
Rear	1.124	0.994	1.150	3.268	Yes
Edge 1	1.260	0.912	0.775	2.947	Yes

Note(s):

As the Sum of the SAR is greater than 1.6W/Kg, so SPLSR is required.

LTE Band 41 +2.4G Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
	LTE Band 41	Wi-Fi Main 2.4 GHz Band	Wi-Fi Aux 2.4 GHz Band		
Rear	1.101	0.952	1.225	3.278	Yes
Edge 1	1.189	0.550	0.331	2.070	Yes

Note(s):

As the Sum of the SAR is greater than 1.6W/Kg, so SPLSR is required.

LTE Band 41 +5G Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
	LTE Band 41	Wi-Fi Main 5 GHz Band	Wi-Fi Aux 5 GHz Band		
Rear	1.101	0.994	1.150	3.245	Yes
Edge 1	1.189	0.912	0.775	2.876	Yes

Note(s):

As the Sum of the SAR is greater than 1.6W/Kg, so SPLSR is required.

18.2.2 Sum of the 1g SAR for Body Exposure Condition

WCDMA Band II + 2.4GHz Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	Calculated distance (cm)	SPLSR	Figure
	WCDMA Band II	Wi-Fi Main 2.4 GHz Band	Wi-Fi Aux 2.4 GHz Band				
Rear	1.397	0.952		2.349	21.26	0.02	1
	1.397		1.225	2.622	11.65	0.04	2
Edge1	0.773	0.55		1.323	22.50	0.01	3
	0.773		0.331	1.104	10.11	0.01	4

Note(s):

The SPLSR is rounded to two decimal digits and ≤ 0.04

WCDMA Band II + 5GHz Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	Calculated distance (cm)	SPLSR	Figure
	WCDMA Band II	Wi-Fi Main 5 GHz Band	Wi-Fi Aux 5 GHz Band				
Rear	1.397	0.994		2.391	23.48	0.02	5
	1.397		1.150	2.547	11.28	0.04	6
Edge1	0.773	0.912		1.685	21.21	0.01	7
	0.773		0.775	1.548	13.01	0.01	8

Note(s):

The SPLSR is rounded to two decimal digits and ≤ 0.04

WCDMA Band IV+ + 2.4GHz Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	Calculated distance (cm)	SPLSR	Figure
	WCDMA Band IV	Wi-Fi Main 2.4 GHz Band	Wi-Fi Aux 2.4 GHz Band				
Rear	1.284	0.952		2.236	22.08	0.02	9
	1.284		1.225	2.509	11.49	0.03	10

Note(s):

The SPLSR is rounded to two decimal digits and ≤ 0.04

WCDMA Band IV + 5GHz Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	Calculated distance (cm)	SPLSR	Figure
	WCDMA Band IV	Wi-Fi Main 5 GHz Band	Wi-Fi Aux 5 GHz Band				
Rear	1.284	0.994		2.278	20.90	0.02	11
	1.284		1.150	2.434	11.12	0.03	12
Edge1	0.676	0.912		1.588	20.21	0.01	13
	0.676		0.775	1.451	12.02	0.01	14

Note(s):

The SPLSR is rounded to two decimal digits and ≤ 0.04

WCDMA Band V + 2.4GHz Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	Calculated distance (cm)	SPLSR	Figure
	WCDMA Band V	Wi-Fi Main 2.4 GHz Band	Wi-Fi Aux 2.4 GHz Band				
Rear	1.035	0.952		1.987	21.26	0.01	15
	1.035		1.225	2.260	10.47	0.03	16

Note(s):

The SPLSR is rounded to two decimal digits and ≤ 0.04

WCDMA Band V + 5GHz Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	Calculated distance (cm)	SPLSR	Figure
	WCDMA Band V	Wi-Fi Main 5 GHz Band	Wi-Fi Aux 5 GHz Band				
Rear	1.035	0.994		2.029	19.86	0.01	17
	1.035		1.150	2.185	10.10	0.03	18
Edge1	0.571	0.912		1.483	20.31	0.01	19
	0.571		0.775	1.346	13.01	0.01	20

Note(s):

The SPLSR is rounded to two decimal digits and ≤ 0.04

LTE Band 2 + 2.4GHz Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	Calculated distance (cm)	SPLSR	Figure
	LTE Band 2	Wi-Fi Main 2.4 GHz Band	Wi-Fi Aux 2.4 GHz Band				
Rear	1.253	0.952		2.205	22.36	0.01	21
	1.253		1.225	2.478	11.79	0.03	22
Edge1	0.745	0.550		1.295	22.27	0.01	23
	0.745		0.331	1.076	9.89	0.01	24

Note(s):

The SPLSR is rounded to two decimal digits and ≤ 0.04

LTE Band 2 + 5GHz Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	Calculated distance (cm)	SPLSR	Figure
	LTE Band 2	Wi-Fi Main 5 GHz Band	Wi-Fi Aux 5 GHz Band				
Rear	1.253	0.994		2.247	21.20	0.02	25
	1.253		1.150	2.403	11.42	0.03	26
Edge1	0.745	0.912		1.657	20.97	0.01	27
	0.745		0.775	1.520	12.79	0.01	28

Note(s):

The SPLSR is rounded to two decimal digits and ≤ 0.04

LTE Band 4 + 2.4GHz Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	Calculated distance (cm)	SPLSR	Figure
	LTE Band 4	Wi-Fi Main 2.4 GHz Band	Wi-Fi Aux 2.4 GHz Band				
Rear	1.286	0.952		2.238	22.14	0.02	29
	1.286		1.225	2.511	11.50	0.03	30
Edge1	0.761	0.550		1.311	21.50	0.01	31
	0.761		0.331	1.092	9.11	0.01	32

Note(s):

The SPLSR is rounded to two decimal digits and ≤ 0.04

LTE Band 4 + 5GHz Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	Calculated distance (cm)	SPLSR	Figure
	LTE Band 4	Wi-Fi Main 5 GHz Band	Wi-Fi Aux 5 GHz Band				
Rear	1.286	0.994		2.280	21.20	0.02	33
	1.286		1.150	2.436	11.13	0.03	34
Edge1	0.761	0.912		1.673	22.14	0.01	35
	0.761		0.775	1.536	12.79	0.01	36

Note(s):

The SPLSR is rounded to two decimal digits and ≤ 0.04

LTE Band 5 + 2.4GHz Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	Calculated distance (cm)	SPLSR	Figure
	LTE Band 5	Wi-Fi Main 2.4 GHz Band	Wi-Fi Aux 2.4 GHz Band				
Rear	1.259	0.952		2.211	20.79	0.02	37
	1.259		1.225	2.484	10.01	0.01	38

Note(s):

The SPLSR is rounded to two decimal digits and ≤ 0.04

LTE Band 5 + 5GHz Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	Calculated distance (cm)	SPLSR	Figure
	LTE Band 5	Wi-Fi Main 5 GHz Band	Wi-Fi Aux 5 GHz Band				
Rear	1.259	0.994		2.253	19.41	0.02	39
	1.259		1.150	2.409	9.63	0.04	40
Edge1	0.611	0.912		1.523	18.70	0.01	41
	0.611		0.775	1.386	10.51	0.02	42

Note(s):

The SPLSR is rounded to two decimal digits and ≤ 0.04

LTE Band 7 + 2.4GHz Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	Calculated distance (cm)	SPLSR	Figure
	LTE Band 7	Wi-Fi Main 2.4 GHz Band	Wi-Fi Aux 2.4 GHz Band				
Rear	1.271	0.952		2.223	23.29	0.01	43
	1.271		1.225	2.496	12.53	0.03	44
Edge1	1.385	0.550		1.935	22.14	0.01	45
	1.385		0.331	1.716	9.75	0.02	46

Note(s):

The SPLSR is rounded to two decimal digits and ≤ 0.04

LTE Band 7 + 5GHz Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	Calculated distance (cm)	SPLSR	Figure
	LTE Band 7	Wi-Fi Main 5 GHz Band	Wi-Fi Aux 5 GHz Band				
Rear	1.271	0.994		2.265	21.91	0.02	47
	1.271		1.150	2.421	12.16	0.03	48
Edge1	1.385	0.912		2.297	20.85	0.02	49
	1.385		0.775	2.160	12.65	0.03	50

Note(s):

The SPLSR is rounded to two decimal digits and ≤ 0.04

LTE Band 12 + 2.4GHz Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	Calculated distance (cm)	SPLSR	Figure
	LTE Band 12	Wi-Fi Main 2.4 GHz Band	Wi-Fi Aux 2.4 GHz Band				
Rear	1.243	0.952		2.195	21.73	0.01	51
	1.243		1.225	2.468	10.93	0.04	52
Edge1	0.905	0.550		1.455	19.86	0.01	53
	0.905		0.331	1.236	7.47	0.02	54

Note(s):

The SPLSR is rounded to two decimal digits and ≤ 0.04

LTE Band 12 + 5GHz Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	Calculated distance (cm)	SPLSR	Figure
	LTE Band 12	Wi-Fi Main 5 GHz Band	Wi-Fi Aux 5 GHz Band				
Rear	1.243	0.994		2.237	20.32	0.02	55
	1.243		1.150	2.393	10.56	0.04	56
Edge1	0.905	0.912		1.817	18.56	0.01	57
	0.905		0.775	1.680	10.38	0.02	58

Note(s):

The SPLSR is rounded to two decimal digits and ≤ 0.04

LTE Band 13 + 2.4GHz Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	Calculated distance (cm)	SPLSR	Figure
	LTE Band 13	Wi-Fi Main 2.4 GHz Band	Wi-Fi Aux 2.4 GHz Band				
Rear	1.174	0.952		2.126	20.93	0.01	59
	1.174		1.225	2.399	10.15	0.04	60

Note(s):

The SPLSR is rounded to two decimal digits and ≤ 0.04

LTE Band 13 + 5GHz Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	Calculated distance (cm)	SPLSR	Figure
	LTE Band 13	Wi-Fi Main 5 GHz Band	Wi-Fi Aux 5 GHz Band				
Rear	1.174	0.994		2.168	19.56	0.02	61
	1.174		1.150	2.324	9.78	0.04	62
Edge1	0.639	0.912		1.551	18.71	0.01	63
	0.639		0.775	1.414	10.52	0.02	64

Note(s):

The SPLSR is rounded to two decimal digits and ≤ 0.04

LTE Band 25 + 2.4GHz Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	Calculated distance (cm)	SPLSR	Figure
	LTE Band 25	Wi-Fi Main 2.4 GHz Band	Wi-Fi Aux 2.4 GHz Band				
Rear	1.306	0.952		2.258	22.00	0.02	65
	1.306		1.225	2.531	11.49	0.04	66
Edge1	0.722	0.550		1.272	21.96	0.01	67
	0.722		0.331	1.053	9.75	0.01	68

Note(s):

The SPLSR is rounded to two decimal digits and ≤ 0.04

LTE Band 25 + 5GHz Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	Calculated distance (cm)	SPLSR	Figure
	LTE Band 25	Wi-Fi Main 5 GHz Band	Wi-Fi Aux 5 GHz Band				
Rear	1.306	0.994		2.300	20.90	0.02	69
	1.306		1.150	2.456	11.11	0.03	70
Edge1	0.722	0.912		1.634	20.66	0.01	71
	0.722		0.775	1.497	12.47	0.01	72

Note(s):

The SPLSR is rounded to two decimal digits and ≤ 0.04

LTE Band 26 + 2.4GHz Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	Calculated distance (cm)	SPLSR	Figure
	LTE Band 26	Wi-Fi Main 2.4 GHz Band	Wi-Fi Aux 2.4 GHz Band				
Rear	1.114	0.952		2.066	20.79	0.01	73
	1.114		1.225	2.339	10.00	0.04	74

Note(s):

The SPLSR is rounded to two decimal digits and ≤ 0.04

LTE Band 26 + 5GHz Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	Calculated distance (cm)	SPLSR	Figure
	LTE Band 26	Wi-Fi Main 5 GHz Band	Wi-Fi Aux 5 GHz Band				
Rear	1.114	0.994		2.108	19.41	0.02	75
	1.114		1.150	2.264	9.63	0.04	76
Edge1	0.613	0.912		1.525	17.91	0.01	77
	0.613		0.775	1.388	9.72	0.02	78

Note(s):

The SPLSR is rounded to two decimal digits and ≤ 0.04

LTE Band 30 + 2.4GHz Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	Calculated distance (cm)	SPLSR	Figure
	LTE Band 30	Wi-Fi Main 2.4 GHz Band	Wi-Fi Aux 2.4 GHz Band				
Rear	1.124	0.952		2.076	23.58	0.01	79
	1.124		1.225	2.349	12.53	0.03	80
Edge1	1.260	0.550		1.810	22.50	0.01	81
	1.260		0.331	1.591	10.10	0.02	82

Note(s):

The SPLSR is rounded to two decimal digits and ≤ 0.04

LTE Band 30 + 5GHz Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	Calculated distance (cm)	SPLSR	Figure
	LTE Band 30	Wi-Fi Main 5 GHz Band	Wi-Fi Aux 5 GHz Band				
Rear	1.124	0.994		2.118	21.86	0.01	83
	1.124		1.150	2.274	12.18	0.03	84
Edge1	1.260	0.912		2.172	21.20	0.02	85
	1.260		0.775	2.035	13.01	0.02	86

Note(s):

The SPLSR is rounded to two decimal digits and ≤ 0.04

LTE Band 41 + 2.4GHz Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	Calculated distance (cm)	SPLSR	Figure
	LTE Band 41	Wi-Fi Main 2.4 GHz Band	Wi-Fi Aux 2.4 GHz Band				
Rear	1.123	0.952		2.075	19.33	0.02	87
	1.123		1.225	2.348	8.10	0.04	88
Edge1	1.189	0.550		1.739	17.91	0.01	89
	1.189		0.331	1.520	5.53	0.03	90

Note(s):

The SPLSR is rounded to two decimal digits and ≤ 0.04

LTE Band 41 + 5GHz Band

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	Calculated distance (cm)	SPLSR	Figure
	LTE Band 41	Wi-Fi Main 5 GHz Band	Wi-Fi Aux 5 GHz Band				
Rear	1.123	0.994		2.117	17.46	0.02	91
	1.123		1.150	2.273	7.74	0.04	92
Edge1	1.189	0.912		2.101	16.61	0.02	93
	1.189		0.775	1.964	8.43	0.03	94

Note(s):

The SPLSR is rounded to two decimal digits and ≤ 0.04

18.2.3 Sum of the SAR for WLAN & WWAN & Bluetooth

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
	WCDMA Band II	Wi-Fi Main 2.4 GHz Band	Bluetooth		
Rear	1.397	0.952	0.363	2.712	Yes
Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
	LTE Band 7	Wi-Fi Main 2.4 GHz Band	Bluetooth		
Edge 1	1.385	0.550	0.490	2.425	Yes

Note(s):

As the Sum of the SAR is greater than 1.6W/Kg, so SPLSR is required.

Test Position	Simultaneous Transmission Scenario				Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
	WCDMA Band II	Wi-Fi Main 5 GHz Band	Wi-Fi Aux 5 GHz Band	Bluetooth		
Rear	1.397	0.994	1.150	0.363	3.541	Yes
Test Position	Simultaneous Transmission Scenario				Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
	LTE Band 7	Wi-Fi Main 5 GHz Band	Wi-Fi Aux 5 GHz Band	Bluetooth		
Edge 1	1.385	0.912	0.775	0.490	3.072	Yes

Note(s):

As the Sum of the SAR is greater than 1.6W/Kg, so SPLSR is required.

18.2.4 Sum of the 1g SAR for Body Exposure Condition

Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	Calculated distance (cm)	SPLSR	Figure
	WCDMA Band II	Wi-Fi Main 2.4 GHz Band	Bluetooth				
Rear	1.397	0.952		2.349	21.26	0.02	1
	1.397		0.363	1.760	11.65	0.02	95
Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	Calculated distance (cm)	SPLSR	Figure
	WCDMA Band 7	Wi-Fi Main 2.4 GHz Band	Bluetooth				
Edge1	1.385	0.550		1.935	22.14	0.01	45
	1.385		0.490	1.875	9.75	0.03	96

Note(s):

The SPLSR is rounded to two decimal digits and ≤ 0.04

Test Position	Simultaneous Transmission Scenario				Σ 1-g SAR (W/kg)	Calculated distance (cm)	SPLSR	Figure
	WCDMA Band II	Wi-Fi Main 5 GHz Band	Wi-Fi Aux 5 GHz Band	Bluetooth				
Rear	1.397	0.994			2.391	23.48	0.02	5
	1.397		1.115		2.512	11.28	0.04	6
	1.397			0.363	1.760	11.28	0.02	97
Test Position	Simultaneous Transmission Scenario				Σ 1-g SAR (W/kg)	Calculated distance (cm)	SPLSR	Figure
	WCDMA Band 7	Wi-Fi Main 5 GHz Band	Wi-Fi Aux 5 GHz Band	Bluetooth				
Edge1	1.385	0.912			2.297	20.85	0.02	49
	1.385		0.775		2.160	12.65	0.03	50
	1.385			0.490	1.875	12.65	0.02	98

Note(s):

The SPLSR is rounded to two decimal digits and ≤ 0.04

19 Equipment List & Calibration Status

Name of Equipment	Manufacturer	Type/Model	Serial Number	Calibration Cycle(year)	Calibration Due
Wireless Communication Test Set	Agilent	E5515C 8960	MY48361017	1	2016/07/23
Radio Communication Analyzer	Anritsu	MT8820C	6200938900	1	2016/09/03
S-Parameter Network Analyzer	Agilent	E5071C	MY46213916	1	2016/06/25
Electronic Probe kit	Hewlett Packard	85070D	N/A	N/A	N/A
Power Meter	Agilent	4416	GB41291611	1	2016/09/06
Power Sensor	Agilent	8481H	MY41091956	1	2016/09/06
Data Acquisition Electronics (DAE)	SPEAG	DAE4	877	1	2016/03/18
Dosimetric E-Field Probe	SPEAG	EX3DV4	3665	1	2016/05/26
Dosimetric E-Field Probe	SPEAG	EX3DV4	7351	1	2016/10/29
750 MHz System Validation Dipole	SPEAG	D750V3	1020	1	2016/01/22
835 MHz System Validation Dipole	SPEAG	D835V2	4d015	1	2016/03/19
1800 MHz System Validation Dipole	SPEAG	D1800V2	2d062	1	2016/02/18
1900 MHz System Validation Dipole	SPEAG	D1900V2	5d056	1	2016/02/17
2300 MHz System Validation Dipole	SPEAG	D2300V2	1023	1	2016/08/18
2450 MHz System Validation Dipole	SPEAG	D2450V2	728	1	2016/05/27
Robot	Staubli	RX90L	F02/5T69A1/A/01	N/A	N/A
Amplifier	Mini-Circuit	ZVE-8G	665500309	N/A	N/A
Amplifier	Mini-Circuit	ZHL-1724HLN	D072602#2	N/A	N/A

20 Facilities

All measurement facilities used to collect the measurement data are located at

- ☐ No. 81-1, Lane 210, Bade Rd. 2, Luchu Hsiang, Taoyuan Hsien, Taiwan, R.O.C.
- ☒ No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.)
- ☐ No. 199, Chunghsen Road, Hsintien City, Taipei Hsien, Taiwan, R.O.C.

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22 Attachments

Exhibit	Content
1	System Performance Check Plots
2	SAR Test Data Plots
3	SPLSR Plots
4	Calibration Data Report
5	T151029W01-A-SF PHOTOS

END OF REPORT