

	LTE B66 (1700MHz) / Setup Path Loss = 5.4 (TS9)									
Bandwidth	UL Channel	UL Freq. MHz	# RBs	Offset RBs	QPSK	16QAM				
				1	21.78	20.95				
			1	12	21.90	21.11				
				24	21.89	21.08				
	131997	1712.5		1	21.13	20.08				
			12	7	21.15	20.11				
				13	20.99	20.02				
			25	0	20.96	20.02				
		1755.0	1	1	21.27	21.50				
				12	21.43	21.54				
				24	21.42	21.49				
5 MHz	132422		12	1	21.51	20.49				
				7	21.49	20.47				
				13	21.26	20.36				
			25	0	21.35	20.37				
				1	21.77	21.03				
			1	12	21.77	21.08				
				24	21.54	20.81				
	132646	1777.4		1	22.21	20.18				
			12	7	22.10	20.14				
				13	21.84	19.89				
			25	0	21.99	20.04				

Bandwidth	UL Channel	UL Freq. MHz	# RBs	Offset RBs	QPSK	16QAM
				1	21.25	20.55
			1	24	21.62	20.93
				49	21.52	20.87
	132033	1716.1		1	20.86	19.88
			25	13	20.79	19.78
				25	20.63	19.69
			50	0	20.69	19.80
				1	22.16	21.27
		1755.0	1	24	22.37	21.50
	132422			49	22.27	21.25
10 MHz			25	1	22.45	20.48
				13	22.32	20.34
				25	22.10	20.16
			50	0	22.26	20.36
				1	21.95	21.28
			1	24	22.06	21.44
				49	21.56	21.03
	132621	1774.9		1	21.41	20.52
			25	13	21.25	20.31
				25	20.88	19.99
			50	0	21.10	20.26



	LTE B	66 (1700MHz) /	Setup Path	Loss = 5.4 (T	59)	
Bandwidth	UL Channel	UL Freq. MHz	# RBs	Offset RBs	QPSK	16QAM
				1	21.53	20.67
			1	37	21.62	20.80
				75	21.43	20.75
	132047	1717.5		1	21.03	20.46
			37	19	21.08	20.59
				38	21.00	20.43
			75	0	20.58	19.60
				1	22.26	21.59
		1755.0	1	37	22.10	21.40
				75	22.13	21.36
15 MHz	132422		37	1	21.59	20.89
				19	21.41	20.97
				38	21.37	20.92
			75	0	21.09	20.38
				1	22.50	22.03
			1	37	21.88	21.40
				75	21.94	21.46
	132596	1772.4		1	21.85	20.99
			37	19	21.93	22.05
				38	21.46	22.01
			75	0	21.16	20.32

Bandwidth	UL Channel	UL Freq. MHz	# RBs	Offset RBs	QPSK	16QAM
				1	21.05	20.75
			1	49	21.24	20.97
				99	21.90	21.53
	132072	1720.0		1	20.69	19.83
			50	24	20.64	19.74
				50	20.81	19.82
			100	0	20.73	19.70
		1755.0		1	22.27	21.65
			50	49	21.95	21.42
				99	22.06	21.46
20 MHz	132422			1	21.42	20.65
				24	21.27	20.41
				50	21.11	20.20
			100	0	21.27	20.31
				1	22.71	21.81
			1	49	22.08	21.22
				99	21.66	20.79
	132571	1769.9		1	22.33	20.45
			50	24	22.47	20.59
				50	22.13	20.27
			100	0	22.22	20.33



	LTE E	32 (1900MHz) / S	etup Path	Loss = 5.5 (TS	9)	
Bandwidth	UL Channel	UL Freq. MHz	# RBs	Offset RBs	QPSK	16QAM
				1	22.05	21.41
			1	3	22.04	21.45
				5	21.94	21.29
	18607	1850.7		1	22.06	21.22
			3	2	22.07	21.20
				3	22.02	21.14
			6	0	21.01	20.38
		1880.0	1	1	22.11	21.33
				3	22.08	21.26
				5	21.84	21.10
1.4 MHz	18900		3	1	22.09	21.08
				2	22.11	20.14
				3	22.04	20.07
			6	0	22.10	19.97
				1	21.86	21.18
			1	3	21.82	21.13
				5	21.64	20.96
	19193	1909.3		1	21.86	20.95
			3	2	21.85	20.96
				3	21.76	20.85
			6	0	20.85	20.10

Bandwidth	UL Channel	UL Freq. MHz	# RBs	Offset RBs	QPSK	16QAM
				1	22.46	21.74
			1	7	22.44	21.71
				14	22.14	21.44
	18615	1851.5		1	21.56	20.79
			7	4	21.69	20.86
				8	21.44	20.91
			15	0	21.26	20.44
				1	22.27	21.58
			1880.0 7	7	22.23	21.54
				14	21.94	21.28
3 MHz	18900	1880.0		1	21.48	20.88
				4	21.43	20.83
				8	21.29	20.71
			15	0	21.25	20.4
				1	21.97	21.11
			1	7	21.96	21.12
				14	21.66	20.86
	19185	1908.5		1	21.16	20.68
			7	4	21.18	20.72
				8	21.02	20.59
			15	0	20.93	20.12



LTE B2 (1900MHz) / Setup Path Loss = 5.5 (TS9)									
Bandwidth	UL Channel	UL Freq. MHz	# RBs	Offset RBs	QPSK	16QAM			
				1	21.91	21.25			
			1	12	22.03	21.34			
				24	21.68	20.98			
	18625	1852.5		1	21.31	20.13			
			12	7	21.33	20.32			
				13	21.19	20.22			
			25	0	21.17	20.19			
		1880.0	1	1	22.16	21.51			
				12	22.14	21.53			
				24	21.74	21.07			
5 MHz	18900		380.0	1	21.35	20.33			
				7	21.38	20.37			
				13	21.34	20.28			
			25	0	21.25	20.25			
				1	21.87	21.12			
			1	12	21.86	21.09			
				24	21.50	20.71			
	19175	1907.5		1	21.00	19.98			
			12	7	21.06	19.93			
				13	20.83	19.89			
			25	0	20.90	19.95			

Bandwidth	UL Channel	UL Freq. MHz	# RBs	Offset RBs	QPSK	16QAM
				1	22.06	21.18
			1	24	21.97	21.17
				49	21.91	21.08
	18650	1855.0		1	21.10	20.10
			25	13	21.20	20.17
				25	21.19	20.33
			50	0	21.13	20.25
				1	22.51	21.73
		1880.0	25	24	22.16	21.38
				49	21.63	20.89
10 MHz	18900			1	21.32	20.32
				13	21.27	20.25
				25	21.14	20.24
			50	0	21.21	20.32
				1	22.32	21.36
			1	24	21.96	21.09
				49	21.43	20.55
	19150	1905.0		1	21.15	20.19
			25	13	21.05	20.05
				25	20.83	19.92
			50	0	20.96	20.06



	LTE E	32 (1900MHz) / S	etup Path	Loss = 5.5 (TS	9)	
Bandwidth	UL Channel	UL Freq. MHz	# RBs	Offset RBs	QPSK	16QAM
				1	22.11	21.57
			1	37	21.77	21.25
				75	21.86	21.42
	18675	1857.5		1	21.46	20.98
			37	19	21.15	20.73
				38	21.36	20.81
_			75	0	21.07	20.17
		1880.0	1	1	22.78	22.02
				37	21.97	21.46
				75	22.43	21.97
15 MHz	18900		37	1	21.85	21.16
				19	21.26	20.73
				38	21.68	20.95
			75	0	21.07	20.22
				1	22.64	22.09
			1	37	21.82	21.17
				75	22.15	21.84
	19125	1902.5		1	21.93	21.29
			37	19	21.04	20.88
				38	21.63	21.03
			75	0	21.04	20.14

Bandwidth	UL Channel	UL Freq. MHz	# RBs	Offset RBs	QPSK	16QAM
				1	22.23	21.46
			1	49	21.99	21.26
				99	23.04	22.17
	18700	1860.0		1	21.05	20.23
			50	24	21.38	20.50
				50	21.60	20.74
			100	0	21.33	20.41
		1880.0		1	23.15	22.21
			50	49	22.12	21.18
				99	21.96	21.04
20 MHz	18900			1	22.25	20.49
				24	22.19	20.28
				50	22.09	20.20
			100	0	22.16	20.31
				1	22.10	21.41
			1	49	22.06	21.35
				99	21.35	20.65
	19100	1900.0		1	21.13	20.25
			50	24	21.21	20.28
				50	20.96	20.17
			100	0	20.96	20.10



LTE B7 (2600MHz) / Setup Path Loss = 6.2 (Murata)									
Bandwidth	UL Channel	UL Freq. MHz	# RBs	Offset RBs	QPSK	16QAM			
				1	22.79	22.12			
			1	12	22.87	22.17			
				24	22.74	21.99			
	20775	2502.5		1	21.88	20.92			
			12	7	21.93	20.98			
				13	21.80	20.84			
			25	0	21.91	20.93			
		2535.0	1	1	22.96	22.31			
				12	22.97	22.31			
				24	22.95	22.19			
5 MHz	21100		12	1	22.08	21.12			
				7	22.12	21.16			
				13	22.10	21.13			
			25	0	22.08	21.12			
				1	22.13	21.36			
			1	12	21.94	21.20			
				24	21.56	20.80			
	21425	2567.5		1	22.10	21.14			
			12	7	22.01	21.08			
				13	21.84	20.89			
			25	0	21.97	21.02			

Bandwidth	UL Channel	UL Freq. MHz	# RBs	Offset RBs	QPSK	16QAM
				1	23.00	22.29
			1	24	22.89	22.16
				49	22.36	21.68
	20800	2505.0		1	22.02	21.04
			25	13	21.97	20.97
				25	22.01	21.04
			50	0	21.98	20.97
				1	23.21	22.49
		2535.0	2535.0 25	24	23.03	23.39
				49	22.91	22.30
10 MHz	21100			1	22.24	21.25
				13	22.16	21.17
				25	22.18	21.18
			50	0	22.13	21.16
				1	22.55	21.80
			1	24	22.19	21.47
				49	21.36	20.00
	21400	2565.0		1	22.42	21.38
			25	13	22.22	21.28
				25	21.88	20.93
			50	0	22.13	21.19



	LTE B7	(2600MHz) / Set	tup Path Lo	ss = 6.2 (Mur	ata)			
Bandwidth	UL Channel	UL Freq. MHz	# RBs	Offset RBs	QPSK	16QAM		
				1	23.20	22.43		
			1	37	22.85	22.19		
				75	22.92	22.31		
	20825	2507.5		1	22.30	21.73		
			37	19	22.13	21.61		
				38	22.26	21.77		
			75	0	22.07	21.03		
			1	1	23.35	22.59		
				37	23.23	22.25		
				75	23.15	22.16		
15 MHz	21100	2535.0	37	1	22.42	21.87		
				19	22.36	21.75		
				38	22.03	Person Disaster. 1997 September 2007		
			75	0	22.20	22.43 22.19 22.31 21.73 21.61 21.77 21.03 22.59 22.25 22.16 21.87 21.75		
				1	23.14	22.63		
			1	37	22.87	20		
				75	23.04			
	21424	2562.5		1	22.58			
			37 19	19	22.37	21.85		
				38	22.31	21.79		
			75	0	22.01	21.54		

Bandwidth	UL Channel	UL Freq. MHz	# RBs	Offset RBs	QPSK	16QAM
				1	23.37	22.54
			1	49	22.95	22.19
				99	22.99	22.19
	20850	2510.0		1	22.10	21.13
			50	24		21.18
				50	22.09	21.09
			100	0	22.16	21.15
				1	23.43	22.78
			1 49 23.00 99 23.10	23.00	22.35	
				23.10	22.45	
20 MHz	21100	2535.0	50	1	22.29	21.35
				24	22.17	21.21
				50	22.27	21.21
			100	0	22.24	21.23
				1	23.44	22.76
			1	49	23.03	99 22.19 10 21.13 13 21.18 09 21.09 16 21.15 43 22.78 00 22.35 10 22.45 29 21.35 17 21.21 27 21.28 24 21.23 44 22.76 03 22.39 13 22.52 29 21.35 18 21.21 27 21.27
				99	23.13	22.52
	21349	2560.0		1	22.29	22.19 22.19 21.13 21.18 21.09 21.15 22.78 22.35 22.45 21.35 21.21 21.28 21.23 22.76 22.39 22.52 21.35 21.21 21.21 21.28
			50	24	22.18	
				50	22.27	21.27
			100	0	22.23	21.26



	LTE E	312 (750MHz) / S	etup Path I	Loss = 4.7 (TS	9)					
Bandwidth	UL Channel	UL Freq. MHz	# RBs	Offset RBs	QPSK	16QAM				
				1	22.27	21.75				
			1	3	22.39	21.83				
				5	22.27	21.73				
	23017	699.7		1	22.38	21.60				
			3	2	22.40	21.61				
				3	22.34	21.53				
			6	0	21.33	20.54				
		707.5	1	1	21.59	21.70				
				3	21.63	21.78				
				5	21.43	21.59				
1.4 MHz	23095		3	1	21.66	21.56				
				2	21.65	21.55				
				3	21.62	21.52				
			6	0	21.46	2.40 21.61 2.34 21.53 1.33 20.54 1.59 21.70 1.63 21.78 1.43 21.59 1.66 21.56 1.65 21.55 1.62 21.52 1.46 20.62 1.23 21.15 1.17 21.13 0.90 20.85 1.21 20.92 1.19 20.89				
				1	21.23	21.15				
			1	3	21.17	21.13				
				5	20.90	20.85				
	23172	715.3		1	21.21	20.92				
			3	2	21.19	20.89				
				3	21.02	20.70				
			6	0	20.67	19.94				

Bandwidth	UL Channel	UL Freq. MHz	# RBs	Offset RBs	QPSK	16QAM		
				1	21.66	21.87		
			1	7	21.75	22.08		
				14	21.87	21.96		
	23025	700.5		1	21.53	21.42		
			7	4	21.59	21.46		
				8	21.46	21.35		
			15	0	21.62	20.81		
				1	22.55	21.79		
			1	7	22.61	21.86		
				14	22.57	21.77		
3 MHz	23095	707.5	7	1	22.12	22.06		
				4	22.19	22.14		
				8	22.04	22.01		
			15	0	21.59	20.77		
				1	21.69	22.08 21.96 21.42 21.46 21.35 20.81 21.79 21.86 21.77 22.06 22.14 22.01		
			1	7	21.35	21.66 21.87 21.75 22.08 21.87 21.96 21.53 21.42 21.59 21.46 21.46 21.35 21.62 20.81 22.55 21.79 22.61 21.86 22.57 21.77 22.12 22.06 22.19 22.14 22.04 22.01 21.59 20.77 21.69 21.68 21.35 21.43 21.07 21.13 21.35 21.06 21.42 21.11 21.21 20.98		
				14	21.07			
	23164	714.5		1	21.35			
			7	4	21.42	21.11		
				8	21.21	20.98		
			15	0	21.03	20.24		



	LTE E	312 (750MHz) / S	etup Path	Loss = 4.7 (TS	9)	
Bandwidth	UL Channel	UL Freq. MHz	# RBs	Offset RBs	QPSK	16QAM
				1	22.33	21.59
			1	12	22.56	21.83
				24	22.43	21.68
	23035	701.5		1	21.69	20.64
			12	7	21.71	20.79
		25 0	21.76	20.81		
			25	0	21.69	20.76
		707.5	1	1	21.74	21.74
				12	21.61	21.73
				24	21.59	21.67
5 MHz	23095		12	1	21.51	20.51
				7	21.56	20.67
				13	21.68	20.72
			25	0	21.55	20.66
				1	22.76	22.11
			1	12	22.16	21.74
				24	21.75	21.21
	23154	713.5		1	21.69	20.77
			12	7	21.32	20.45
				13	20.90	20.03
			25	0	21.32	20.47

Bandwidth	UL Channel	UL Freq. MHz	# RBs	Offset RBs	QPSK	16QAM
				1	21.89	22.00
			1	24	21.72	21.90
				49	21.09	21.38
	23060	704.0		1	21.69	20.00
			25	13	21.78	20.81
				25	21.58	20.65
			50	0	21.59	20.73
				1	22.74	22.06
			1	24	22.48	21.77
		707.5 49 25 13 25	49	22.69	21.95	
10 MHz	23095		25		21.45	20.53
				13	21.62	20.65
				25	21.72	20.87
			50	0	21.65	20.70
				1	21.95	21.93
			1	24	21.66	21.83
				49	20.93	22.00 21.90 21.38 20.00 20.81 20.65 20.73 22.06 21.77 21.95 20.53 20.65 20.87 20.70 21.93
	23129	711.0		1	21.97	21.04
			25	13	21.89	20.98
				25	21.27	20.40
			50	0	21.52	20.79



	LTE B	317 (750MHz) / S	etup Path	Loss = 4.7 (TS	9)					
Bandwidth	UL Channel	UL Freq. MHz	# RBs	Offset RBs	QPSK	16QAM				
				1	22.33	21.59				
			1	12	22.56	21.83				
				24	22.43	21.68				
	23035	701.5	21.69	20.64						
			- X-17	20.79						
				13	21.76	20.81 20.76 4 21.74 1 21.73				
			25	0	21.69	20.76				
				1	21.74	21.74				
			1	12	21.61	21.73				
				24	21.59	21.74 21.73 21.67 20.51				
5 MHz	23095	707.5		1	21.51	20.51				
			12	7	21.56	20.79 20.81 20.76 21.74 21.73 21.67				
				13	21.68					
			25	0	21.55	20.66				
				1	22.76	22.11				
			1	12	22.16	21.59 21.83 21.68 20.64 20.79 20.81 20.76 21.74 21.73 21.67 20.51 20.67 20.72 20.66 22.11 21.74 21.21 20.77 20.45 20.03				
				24	21.75					
	23154	713.5		1	21.69					
			12	7	21.32	20.45				
				13	20.90	20.03				
			25	0	21.32	20.47				

Bandwidth	UL Channel	UL Freq. MHz	# RBs	Offset RBs	QPSK	16QAM
				1	21.89	22.00
			1	24	21.72	21.90
				49	21.09	21.38
	23060	704.0		1	21.69	20.00
			25	13	21.78	20.81
				25	21.58	20.65
			50	0	21.59	20.73
		707.5	1	1	22.74	22.06
				24	22.48	21.77
				49	22.69	21.95
10 MHz	23095		25	1	21.45	20.53
				13	21.62	20.65
				25	21.72	20.87
			50	0	21.65	20.70
				1	21.95	21.93
			1	24	21.66	21.83
				49	20.93	22.00 21.90 21.38 20.00 20.81 20.65 20.73 22.06 21.77 21.95 20.53 20.65 20.87 20.70 21.93
	23129	711.0		1	21.97	
			25	13	13 21.89	20.98
				25	21.27	20.40
			50	0	21.52	20.79



Table 10.5.2 Test Reduction Table – LTE

Donal/		Poguired	. 551 11541		RB	RB	Tootod/
Band/	Side	Required	Bandwidth	Modulation			Tested/
Frequency (MHz)	0.00	Test Channel			Allocation	Offset	Reduced
		18700					Tested
		18900			50	0	Tested
		19100					Tested
		18700					Reduced ¹
		18900			100	0	Reduced ¹
		19100		QPSK -			Reduced ¹
		18700	Q OIL		QI OIL		
		18900				49	Tested
		19100			1		Tested
		18700					Reduced ²
		18900				99	Reduced ²
		19100	20 MHz				Reduced ²
	Α	18700	20 1011 12				Reduced ³
		18900			50	25	Reduced ³
		19100					Reduced ³
		18700	_				Reduced ¹
		18900			100	0	Reduced ¹
		19100		16QAM			Reduced ¹
		18700		TOQAIVI			Reduced ⁴
		18900			1	99	Reduced ⁴
		19100					Reduced ⁴
		18700					Reduced ⁴
		18900					Reduced⁴
		19100					Reduced ⁴
Band 2			bandwidths (15 N	ИНz, 10 МНz, 5 МН	lz, 3 MHz, 1.4 MH	z)	Reduced⁵
1850-1910 MHz		18700	,	QPSK -	50	25	Reduced ⁶
		18900					Tested
		19100					Reduced ⁶
		18700			100		Reduced ¹
		18900				0	Reduced ¹
		19100					Reduced ¹
		18700		QFSK			Reduced ²
		18900				49	Tested
		19100			1		Reduced ²
		18700			ı		Reduced ²
		18900				99	Reduced ²
		19100	20 MHz				Reduced ²
	В	18700	ZU IVITZ				Reduced ³
		18900			50	25	Reduced ³
		19100					Reduced ³
		18700					Reduced ¹
		18900			100	0	Reduced ¹
		19100		400 414			Reduced ¹
		18700		16QAM			Reduced⁴
		18900				49	Reduced ⁴
		19100			4		Reduced ⁴
		18700			1	99	Reduced⁴
		18900					Reduced ⁴
		19100					Reduced ⁴
1			bandwidths (15 N	MHz, 10 MHz, 5 MH	lz. 3 MHz. 1.4 MH	z)	Reduced ⁵

Reduced¹ – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.



Band/		Required			RB	RB	Tested/
Frequency (MHz)	Side	Test Channel	Bandwidth	Modulation	Allocation	Offset	Reduced
1 requericy (Wiriz)		18700			Allocation	Oliset	Reduced ⁶
		18900			50	25	Tested
		19100			00	20	Reduced ⁶
		18700					Reduced ¹
		18900			100	0	Reduced ¹
		19100			100	J	Reduced ¹
		18700		QPSK			Reduced ⁶
		18900				49	Tested
		19100					Reduced ⁶
		18700			1		Reduced ²
		18900				99	Reduced ²
		19100	-				Reduced ²
	С	18700	20 MHz				Reduced ³
	_	18900			50	25	Reduced ³
		19100					Reduced ³
		18700					Reduced ¹
		18900			100	0	Reduced ¹
		19100		400414			Reduced ¹
		18700	1	16QAM	1	49	Reduced⁴
		18900					Reduced⁴
		19100					Reduced ⁴
		18700					Reduced⁴
		18900				99	Reduced ⁴
		19100					Reduced ⁴
Band 2		All lower	bandwidths (15 N	MHz, 10 MHz, 5 MH	Iz, 3 MHz, 1.4 MH	z)	Reduced ⁵
1850-1910 MHz		18700	,	QPSK -	50	25	Reduced ⁶
		18900					Tested
		19100					Reduced ⁶
		18700	1		100	0	Reduced ¹
		18900					Reduced ¹
		19100					Reduced ¹
		18700					Reduced ⁶
		18900				49	Tested
		19100			1		Reduced ⁶
		18700			•		Reduced ²
		18900				99	Reduced ²
		19100	20 MHz				Reduced ²
	D	18700	20 1111 12				Reduced ³
		18900			50	25	Reduced ³
		19100					Reduced ³
		18700					Reduced ¹
		18900			100	0	Reduced ¹
		19100		16QAM			Reduced ¹
		18700		100011111			Reduced ⁴
		18900				49	Reduced ⁴
		19100			1		Reduced ⁴
		18700			•		Reduced ⁴
		18900				99	Reduced ⁴
		19100					Reduced ⁴
		All lower	bandwidths (15 N	//Hz, 10 MHz, 5 MH	lz, 3 MHz, 1.4 MH	z)	Reduced ⁵

Reduced 1 – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.



Band/ Frequency (MHz)	Side	Required Test Channel	Bandwidth	Modulation	RB Allocation	RB Offset	Tested/ Reduced
		18700					Reduced ⁶
		18900			50	25	Tested
		19100					Reduced ⁶
		18700					Reduced ¹
		18900		OPOK	100	0	Reduced ¹
		19100					Reduced ¹
		18700		QPSK			Reduced ⁶
		18900		1 //Hz		49	Tested
		19100	20 MHz		1		Reduced ⁶
		18700					Reduced ²
		18900				99	Reduced ²
Band 2		19100					Reduced ²
1850-1910 MHz	Е	18700			50		Reduced ³
1830-1910 181112		18900				25	Reduced ³
		19100					Reduced ³
		18700				0	Reduced ¹
		18900			100		Reduced ¹
		19100		16QAM			Reduced ¹
		18700		TOQAIVI			Reduced⁴
		18900				49	Reduced ⁴
		19100			1		Reduced ⁴
		18700			ı		Reduced ⁴
		18900				99	Reduced⁴
		19100					Reduced ⁴
		All lower	bandwidths (15 N	MHz, 10 MHz, 5 MH	Iz, 3 MHz, 1.4 MH	z)	Reduced ⁵

Reduced¹ – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.

Reduced⁶- If the SAR value measured on the middle channel is less than 0.8 W/kg and the conducted power is within ±0.5 dB, the remaining channels are reduced per KDB941225 D05 page 4 footnote 2.

Side F Reduced based on distance in KDB 447498 D01 v06 (See below calculations).

Maximum power: 223.9 mW

Closest Distance to Side F: 110.0 mm

 $[[(3.0)/(\sqrt{1.91})]*50 \text{ mm}]+[(110-50 \text{ mm})*10]=708 \text{ mW}$ which is greater than 223.9 mW



Band/		Required			RB	RB	Tested/
Frequency (MHz)	Side	Test Channel	Bandwidth	Modulation	Allocation	Offset	Reduced
1 requericy (Wiriz)		20050			Allocation	Oliset	Tested
		20175			50	25	Tested
		20300			30	25	Tested
		20050					Reduced ¹
		20175			100	0	Reduced ¹
		20300	1		100	0	Reduced ¹
		20050		QPSK			Tested
		20175				49	Tested
		20300				.0	Tested
		20050			1		Reduced ²
		20175				99	Reduced ²
		20300	20 MHz			00	Reduced ²
	Α	20050	20 MHz				Reduced ³
	, ,	20175			50	25	Reduced ³
		20300					Reduced ³
		20050					Reduced ¹
		20175			100	0	Reduced ¹
		20300	1				Reduced ¹
		20050	1	16QAM			Reduced ⁴
		20175			1	49	Reduced ⁴
		20300					Reduced ⁴
		20050				99	Reduced ⁴
		20175	1				Reduced ⁴
		20300	1				Reduced ⁴
Band 4		All lower	bandwidths (15 N	MHz, 10 MHz, 5 MH	lz, 3 MHz, 1.4 MH	z)	Reduced ⁵
1710-1755 MHz		20050		QPSK	50	25	Reduced ⁶
		20175	1				Tested
		20300	1				Reduced ⁶
		20050			100	0	Reduced ¹
		20175					Reduced ¹
		20300					Reduced ¹
		20050					Reduced ⁶
		20175				49	Tested
		20300			1		Reduced ⁶
		20050			'		Reduced ²
		20175				99	Reduced ²
		20300	20 MHz				Reduced ²
	В	20050	20 1411 12				Reduced ³
		20175			50	25	Reduced ³
		20300					Reduced ³
		20050					Reduced ¹
		20175			100	0	Reduced ¹
		20300		16QAM			Reduced ¹
		20050		10001111			Reduced ⁴
		20175				49	Reduced ⁴
		20300			1		Reduced ⁴
		20050					Reduced ⁴
		20175				99	Reduced ⁴
		20300					Reduced ⁴
		All lower	bandwidths (15 N	MHz, 10 MHz, 5 MH	łz, 3 MHz, 1.4 MH	z)	Reduced⁵

Reduced 1 – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.



Band/		Required			RB	RB	Tested/
Frequency (MHz)	Side	Test Channel	Bandwidth	Modulation	Allocation	Offset	Reduced
1 requericy (Wiriz)		20050			Allocation	Oliset	Tested
		20175			50	25	Tested
		20300			30	23	Tested
		20050					Reduced ¹
		20175			100	0	Reduced ¹
		20300			100	0	Reduced ¹
		20050		QPSK			Tested
		20175				49	Tested
		20300				.0	Tested
		20050			1		Reduced ²
		20175				99	Reduced ²
		20300				00	Reduced ²
	С	20050	20 MHz				Reduced ³
	Ŭ	20175			50	25	Reduced ³
		20300					Reduced ³
		20050	-				Reduced ¹
		20175			100	0	Reduced ¹
		20300					Reduced ¹
		20050		16QAM	1	49	Reduced ⁴
		20175					Reduced ⁴
		20300					Reduced ⁴
		20050			1		Reduced ⁴
		20175				99	Reduced ⁴
		20300					Reduced ⁴
Band 4		All lower	bandwidths (15 N	MHz, 10 MHz, 5 MH	Iz, 3 MHz, 1.4 MH	z)	Reduced ⁵
1710-1755 MHz		20050		QPSK	50	25	Reduced ⁶
		20175					Tested
		20300					Reduced ⁶
		20050			100	0	Reduced ¹
		20175					Reduced ¹
		20300					Reduced ¹
		20050		QFSK			Reduced ⁶
		20175				49	Tested
		20300			1		Reduced ⁶
		20050			'		Reduced ²
		20175				99	Reduced ²
		20300	20 MHz				Reduced ²
	D	20050	20 1011 12				Reduced ³
		20175			50	25	Reduced ³
		20300					Reduced ³
		20050					Reduced ¹
		20175			100	0	Reduced ¹
		20300		16QAM			Reduced ¹
		20050		10001111			Reduced ⁴
		20175				49	Reduced ⁴
		20300			1		Reduced ⁴
		20050			'		Reduced ⁴
		20175				99	Reduced ⁴
		20300					Reduced ⁴
		All lower	bandwidths (15 N	MHz, 10 MHz, 5 MH	łz, 3 MHz, 1.4 MH	z)	Reduced ⁵

Reduced 1 – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.



Band/ Frequency (MHz)	Side	Required Test Channel	Bandwidth	Modulation	RB Allocation	RB Offset	Tested/ Reduced
		20050					Reduced ⁶
		20175			50	25	Tested
		20300					Reduced ⁶
		20050		QPSK			Reduced ¹
		20175			100	0	Reduced ¹
		20300	20 MHz				Reduced ¹
		20050				49	Reduced ⁶
		20175					Tested
		20300			1		Reduced ⁶
		20050					Reduced ²
		20175				99	Reduced ²
5		20300					Reduced ²
Band 4	Е	20050					Reduced ³
1710-1755 MHz		20175			50	25	Reduced ³
		20300					Reduced ³
		20050					Reduced ¹
		20175			100	0	Reduced ¹
		20300		400 414			Reduced ¹
		20050		16QAM			Reduced ⁴
		20175				49	Reduced ⁴
		20300			4		Reduced ⁴
		20050			1		Reduced ⁴
		20175				99	Reduced ⁴
		20300					Reduced ⁴
		All lower	bandwidths (15 N	MHz, 10 MHz, 5 MH	lz, 3 MHz, 1.4 MH	z)	Reduced⁵

Reduced¹ – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.

Reduced⁶- If the SAR value measured on the middle channel is less than 0.8 W/kg and the conducted power is within ±0.5 dB, the remaining channels are reduced per KDB941225 D05 page 4 footnote 2.

Side F Reduced based on distance in KDB 447498 D01 v06 (See below calculations).

Maximum power: 223.9 mW

Closest Distance to Side F: 110.0 mm

 $[\{[(3.0)/(\sqrt{1.755})]*50 \text{ mm}\}]+[\{110-50 \text{ mm}\}*10]=685 \text{ mW}$ which is greater than 223.9 mW



Band/		Required			RB	RB	Tested/
Frequency (MHz)	Side	Test Channel	Bandwidth	Modulation	Allocation	Offset	Reduced
1 requericy (Wiriz)		20450			Allocation	Oliset	Reduced ⁶
		20525	-		25	12	Tested
		20600	-		25	12	Reduced ⁶
		20450	-				Reduced ¹
		20525	-		50	0	Reduced ¹
		20600	-		50	U	Reduced ¹
		20450	-	QPSK			Reduced ⁶
		20525				12	Tested
		20600	-			12	Reduced ⁶
		20450	-		1		Reduced ²
		20525	-			24	Reduced ²
		20600	-			24	Reduced ²
	Α	20450	10 MHz				Reduced ³
	^	20525			25	12	Reduced ³
		20600			25	12	Reduced ³
		20450	-				Reduced ¹
		20525			50	0	Reduced ¹
		20600			30	U	Reduced ¹
		20450		16QAM	1	12	Reduced ⁴
		20525					Reduced ⁴
		20600				12	Reduced ⁴
		20450	-				Reduced ⁴
		20525	-			24	Reduced ⁴
		20600				24	Reduced ⁴
Band 5		20000		bandwidths (5 MH	7)		Reduced⁵
824-849 MHz		20450	All lower	banawiatiis (5 ivii i	۷,		Reduced ⁶
024 040 WII IZ		20525	1	QPSK	25	12	Tested
		20600	1				Reduced ⁶
		20450			50	0	Reduced ¹
		20525					Reduced ¹
		20600	1				Reduced ¹
		20450					Reduced ⁶
		20525	1			12	Tested
		20600	1			12	Reduced ⁶
		20450			1		Reduced ²
		20525				24	Reduced ²
		20600					Reduced ²
	В	20450	10 MHz				Reduced ³
		20525			25	12	Reduced ³
		20600					Reduced ³
		20450					Reduced ¹
		20525			50	0	Reduced ¹
		20600			00		Reduced ¹
		20450	1	16QAM			Reduced ⁴
		20525	1			12	Reduced ⁴
		20600	1				Reduced ⁴
		20450	1		1		Reduced ⁴
		20525	_			24	Reduced ⁴
		20600	1				Reduced ⁴
		20000	All lower	bandwidths (5 MH	7)		Reduced⁵

Reduced¹ – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3)
A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.



Band/	0: :	Required	5 1 1 1 1 1 1		RB	RB	Tested/
Frequency (MHz)	Side	Test Channel	Bandwidth	Modulation	Allocation	Offset	Reduced
r requestey (iiii i=)		20450			7 1110 0 0 1110 11	011001	Reduced ⁶
		20525			25	12	Tested
		20600			20		Reduced ⁶
		20450					Reduced ¹
		20525			50	0	Reduced ¹
		20600			00	Ü	Reduced ¹
		20450		QPSK			Reduced ⁶
		20525				12	Tested
		20600					Reduced ⁶
		20450	1		1		Reduced ²
		20525				24	Reduced ²
		20600					Reduced ²
	С	20450	10 MHz				Reduced ³
		20525			25	12	Reduced ³
		20600	1				Reduced ³
		20450	1				Reduced ¹
		20525	1		50	0	Reduced ¹
		20600		16QAM			Reduced ¹
		20450					Reduced ⁴
		20525	1		1	12	Reduced ⁴
		20600					Reduced ⁴
		20450	1				Reduced ⁴
		20525				24	Reduced ⁴
		20600				Reduced ⁴	
Band 5			All lower	bandwidths (5 MH	z)		Reduced ⁵
824-849 MHz		20450	7 111 101101	,	25		Reduced ⁶
		20525	1			12	Tested
		20600	1				Reduced ⁶
		20450	1	QPSK	50	0	Reduced ¹
		20525	1				Reduced ¹
		20600	1				Reduced ¹
		20450	1			12	Reduced ⁶
		20525	1				Tested
		20600	1		4		Reduced ⁶
		20450	1		1		Reduced ²
		20525				24	Reduced ²
		20600	40 MH				Reduced ²
	D	20450	10 MHz				Reduced ³
		20525			25	12	Reduced ³
		20600]				Reduced ³
		20450	1				Reduced ¹
		20525]		50	0	Reduced ¹
		20600	1	160414			Reduced ¹
		20450]	16QAM			Reduced ⁴
		20525]			12	Reduced ⁴
		20600]		4		Reduced ⁴
		20450	1		1		Reduced⁴
		20525	1			24	Reduced ⁴
		20600	1				Reduced ⁴
			All lower	bandwidths (5 MH	z)		Reduced ⁵

Reduced¹ – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.



Band/ Frequency (MHz)	Side	Required Test Channel	Bandwidth	Modulation	RB Allocation	RB Offset	Tested/ Reduced
		20450					Reduced ⁶
		20525			25	12	Tested
		20600					Reduced ⁶
		20450		QPSK			Reduced ¹
		20525			50	0	Reduced ¹
		20600	10 MHz				Reduced ¹
		20450			1	12	Reduced ⁶
		20525					Tested
		20600					Reduced ⁶
		20450					Reduced ²
		20525				24	Reduced ²
Band 5		20600					Reduced ²
824-849 MHz	E	20450			25		Reduced ³
624-649 MITZ		20525				12	Reduced ³
		20600					Reduced ³
		20450					Reduced ¹
		20525			50	0	Reduced ¹
		20600		16QAM			Reduced ¹
		20450]	TOQAW			Reduced ⁴
		20525]			12	Reduced ⁴
		20600			1		Reduced ⁴
		20450	- -		ı		Reduced ⁴
		20525				24	Reduced ⁴
		20600					Reduced⁴
			All lower	bandwidths (5 MH	z)		Reduced ⁵

Reduced¹ – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.

Reduced⁶- If the SAR value measured on the middle channel is less than 0.8 W/kg and the conducted power is within ±0.5 dB, the remaining channels are reduced per KDB941225 D05 page 4 footnote 2.

Side F Reduced based on distance in KDB 447498 D01 v06 (See below calculations).

Maximum power: 251.2 mW

Closest Distance to Side F: 110.0 mm

 $[\{[(3.0)/(\sqrt{0.849})]*50 \text{ mm}\}]+[\{110-50 \text{ mm}\}*10]=762 \text{ mW}$ which is greater than 251.2 mW



Band/		Required			RB	RB	Tested/
Frequency (MHz)	Side	Test Channel	Bandwidth	Modulation	Allocation	Offset	Reduced
r requericy (Wiriz)		20850			Allocation	Oliset	Tested
		21100			50	25	Tested
		21350			30	23	Tested
		20850					Reduced ¹
		21100			100	0	Reduced ¹
		21350			100	U	Reduced ¹
		20850		QPSK			Tested
		21100				49	Tested
		21350				45	Tested
		20850	-		1		Reduced ¹
		21100				99	Reduced ¹
		21350				33	Reduced ¹
	Α	20850	20 MHz				Reduced ³
		21100			50	25	Reduced ³
		21350			30	20	Reduced ³
		20850	-				Reduced ¹
		21100			100	0	Reduced ¹
		21350			100	O .	Reduced ¹
		20850		16QAM -			Reduced ⁴
		21100				49	Reduced ⁴
		21350				10	Reduced ⁴
		20850			1		Reduced ⁴
		21100				99	Reduced ⁴
		21350					Reduced ⁴
Band 7			All lower bandwic	ths (15 MHz, 10 M	Hz. 5 MHz)		Reduced ⁵
2500-2570 MHz		20850		QPSK	50	25	Reduced ⁶
		21100					Tested
		21350					Reduced ⁶
		20850			100	0	Reduced ¹
		21100					Reduced ¹
		21350					Reduced ¹
		20850					Reduced ²
		21100				49	Reduced ²
		21350			4		Reduced ²
		20850			1		Reduced ⁶
		21100				99	Tested
		21350	20 MHz				Reduced ⁶
	В	20850	ZU IVITZ				Reduced ³
		21100			50	25	Reduced ³
		21350					Reduced ³
		20850					Reduced ¹
		21100			100	0	Reduced ¹
		21350		16QAM			Reduced ¹
		20850		IOQAIVI			Reduced ⁴
		21100				49	Reduced ⁴
		21350			1		Reduced ⁴
		20850			1		Reduced ⁴
		21100				99	Reduced ⁴
		21350					Reduced ⁴
			All lower bandwic	ths (15 MHz, 10 M	Hz, 5 MHz)		Reduced ⁵

Reduced¹ – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.



Band/		Required			RB	RB	Tested/
Frequency (MHz)	Side	Test Channel	Bandwidth	Modulation	Allocation	Offset	Reduced
r requeries (Wiriz)		20850			Anocation	Oliset	Reduced ⁶
		21100			50	25	Tested
		21350	1		00	20	Reduced ⁶
		20850					Reduced ¹
		21100			100	0	Reduced ¹
		21350			100	Ü	Reduced ¹
		20850		QPSK			Reduced ⁶
		21100				49	Tested
		21350	1		4		Reduced ⁶
		20850			1		Reduced ⁶
		21100				99	Reduced ⁶
		21350	00.841.				Reduced ⁶
	С	20850	20 MHz				Reduced ³
		21100	1		50	25	Reduced ³
		21350	1				Reduced ³
		20850	1				Reduced ¹
		21100	1		100	0	Reduced ¹
		21350		400 414			Reduced ¹
		20850		16QAM	1		Reduced ⁴
		21100				49	Reduced ⁴
		21350					Reduced ⁴
		20850			ı		Reduced ⁴
		21100				99	Reduced ⁴
		21350					Reduced ⁴
Band 7			All lower bandwid	ths (15 MHz, 10 M	Hz, 5 MHz)		Reduced⁵
2500-2570 MHz		20850		QPSK	50	25	Tested
		21100					Tested
		21350					Tested
		20850			100	0	Reduced ¹
		21100					Reduced ¹
		21350					Reduced ¹
		20850		Q. O.			Reduced ²
		21100				49	Reduced ²
		21350			1		Reduced ²
		20850			•		Tested
		21100				99	Tested
	_	21350	20 MHz				Tested
	D	20850					Reduced ³
		21100			50	25	Reduced ³
		21350					Reduced ³
		20850				_	Reduced ¹
		21100			100	0	Reduced ¹
		21350		16QAM			Reduced ¹
		20850				40	Reduced ⁴
		21100				49	Reduced ⁴
		21350			1		Reduced ⁴
		20850				00	Reduced ⁴
		21100				99	Reduced ⁴
		21350					Reduced ⁴
			All lower bandwid	ths (15 MHz, 10 M	Hz, 5 MHz)		Reduced ⁵

Reduced¹ – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.



Band/ Frequency (MHz)	Side	Required Test Channel	Bandwidth	Modulation	RB Allocation	RB Offset	Tested/ Reduced
		20850					Reduced ⁶
		21100			50	25	Tested
		21350					Reduced ⁶
		20850		QPSK			Reduced ¹
		21100	20 MHz		100	0	Reduced ¹
		21350					Reduced ¹
		20850				49	Reduced ²
		21100					Reduced ²
		21350			1		Reduced ²
		20850					Reduced ⁶
		21100				99	Tested
Band 7		21350					Reduced ⁶
2500-2570 MHz	E	20850	20 1011 12			25	Reduced ³
2500-257 0 IVII IZ		21100			50		Reduced ³
		21350					Reduced ³
		20850					Reduced ¹
		21100			100	0	Reduced ¹
		21350		16QAM			Reduced ¹
		20850		TOQAIVI			Reduced ⁴
		21100				49	Reduced ⁴
		21350			1		Reduced ⁴
		20850					Reduced ⁴
		21100	7			99	Reduced ⁴
		21350					Reduced ⁴
		·	All lower bandwic	ths (15 MHz 10 M	Hz 5 MHz)		Reduced ⁵

Reduced¹ – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.

Reduced⁶- If the SAR value measured on the middle channel is less than 0.8 W/kg and the conducted power is within ±0.5 dB, the remaining channels are reduced per KDB941225 D05 page 4 footnote 2.

Side F Reduced based on distance in KDB 447498 D01 v06 (See below calculations).

Maximum power: 223.9 mW

Closest Distance to Side F: 110.0 mm

 $[\{[(3.0)/(\sqrt{2.70})]*50 \text{ mm}\}]+[\{70-50 \text{ mm}\}*10]=291 \text{ mW}$ which is greater than 223.9 mW



Band/ Frequency (MHz)	Side	Required Test Channel	Bandwidth	Modulation	RB Allocation	RB Offset	Tested/ Reduced
		23230			25	12	Tested
		23230		QPSK	50	0	Reduced ¹
	А	23230	10 MHz		1	12	Tested
		23230			ļ	24	Reduced ²
		23230	10 MHZ		25	12	Reduced ³
		23230		16QAM	50	0	Reduced ¹
		23230			4	12	Reduced⁴
		23230			ı	24	Reduced⁴
Band 13			All lower bandwidths (5 MHz)				
777-787 MHz		23230		ODOK	25	12	Tested
		23230	1		50	0	Reduced ¹
		23230	1	QPSK	4	12	Tested
		23230	10 MHz		ı	24	Reduced ²
	В	23230	10 IVID2		25	12	Reduced ³
		23230]	16QAM	50	0	Reduced ¹
		23230]	IOQAIVI	1	12	Reduced ⁴
		23230	1		1	24	Reduced⁴
			All lower	bandwidths (5 MH	z)		Reduced ⁵

Reduced¹ – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.



Band/ Frequency (MHz)	Side	Required Test Channel	Bandwidth	Modulation	RB Allocation	RB Offset	Tested/ Reduced
		23230			25	12	Tested
		23230		QPSK	50	0	Reduced ¹
		23230	10 MHz		4	12	Tested
		23230			ı	24	Reduced ²
	С	23230			25	12	Reduced ³
		23230		16QAM	50	0	Reduced ¹
		23230			4	12	Reduced ⁴
		23230			ı	24	Reduced ⁴
Band 13		All lower bandwidths (5 MHz)					Reduced⁵
777-787 MHz		23230		ODOK	25	12	Tested
		23230	1		50	0	Reduced ¹
		23230	1	QPSK	4	12	Tested
		23230	10 MU-		ı	24	Reduced ²
	D	23230	10 MHz		25	12	Reduced ³
		23230]	16QAM	50	0	Reduced ¹
		23230	-	TOQAM	4	12	Reduced ⁴
		23230			1	24	Reduced ⁴
			All lower	bandwidths (5 MH	lz)		Reduced⁵

Reduced¹ – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3)
A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.



Band/ Frequency (MHz)	Side	Required Test Channel	Bandwidth	Modulation	RB Allocation	RB Offset	Tested/ Reduced
		23230	10 MHz	QPSK	25	12	Tested
		23230			50	0	Reduced ¹
		23230			1	12	Tested
Band 13		23230			ı	24	Reduced ²
777-787 MHz	E	23230		400 414	25	12	Reduced ³
777-767 WILIZ		23230			50	0	Reduced ¹
		23230		16QAM	1	12	Reduced⁴
		23230				24	Reduced⁴
			All lower	bandwidths (5 MH	z)		Reduced ⁵

Reduced¹ – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.

Reduced⁶- If the SAR value measured on the middle channel is less than 0.8 W/kg and the conducted power is within ±0.5 dB, the remaining channels are reduced per KDB941225 D05 page 4 footnote 2.

Side F Reduced based on distance in KDB 447498 D01 v06 (See below calculations).

Maximum power: 223.9 mW

Closest Distance to Side F: 110.0 mm

 $[\{[(3.0)/(\sqrt{0.787})]*50 \text{ mm}\}]+[\{110-50 \text{ mm}\}*10]=769 \text{ mW}$ which is greater than 223.9 mW



Band/		Required			RB	RB	Tested/
	Side	Test Channel	Bandwidth	Modulation			
Frequency (MHz)					Allocation	Offset	Reduced
		23060	-		05	40	Reduced ⁶
		23095			25	12	Tested Reduced ⁶
		23129					Reduced ¹
		23060 23095			50	0	Reduced ¹
		23129	-		50	U	Reduced ¹
		23060	-	QPSK			Reduced ⁶
		23095	-			12	Tested
		23129	+			12	Reduced ⁶
		23060	-		1		Reduced ²
		23095	-			24	Reduced ²
		23129				24	Reduced ²
	Α	23060	10 MHz				Reduced ³
	^	23095			25	12	Reduced ³
		23129			25	12	Reduced ³
		23060	-				Reduced ¹
		23095			50	0	Reduced ¹
		23129			30	O	Reduced ¹
		23060		16QAM		12	Reduced ⁴
		23095			1		Reduced ⁴
		23129					Reduced ⁴
		23060					Reduced ⁴
		23095				24	Reduced ⁴
		23129					Reduced ⁴
Band 12		20.20	All lower	bandwidths (5 MH	z)		Reduced ⁵
699-716 MHz		23060	All lower	QPSK	25	12	Reduced ⁶
		23095	1				Tested
		23129	1				Reduced ⁶
		23060	1		50	0	Reduced ¹
		23095					Reduced ¹
		23129					Reduced ¹
		23060					Reduced ⁶
		23095				12	Tested
		23129			1		Reduced ⁶
		23060			!		Reduced ²
		23095				24	Reduced ²
		23129	10 MHz				Reduced ²
	В	23060	TO IVII IZ				Reduced ³
		23095			25	12	Reduced ³
		23129					Reduced ³
		23060					Reduced ¹
		23095			50	0	Reduced ¹
		23129]	16QAM			Reduced ¹
		23060		IOQAWI			Reduced ⁴
		23095]			12	Reduced ⁴
		23129			1		Reduced ⁴
		23060			'		Reduced ⁴
		23095]			24	Reduced ⁴
		23129					Reduced ⁴
			All lower	bandwidths (5 MH	z)		Reduced⁵

Reduced¹ – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.



Band/		Required			RB	RB	Tested/
Frequency (MHz)	Side	Test Channel	Bandwidth	Modulation	Allocation	Offset	Reduced
r requericy (Wiriz)		23060			Allocation	Oliset	Reduced ⁶
		23095	-		25	12	Tested
		23129			25	12	Reduced ⁶
		23060					Reduced ¹
		23095			50	0	Reduced ¹
		23129	1		30	0	Reduced ¹
		23060		QPSK			Reduced ⁶
		23095				12	Tested
		23129					Reduced ⁶
		23060	-		1		Reduced ²
		23095				24	Reduced ²
		23129					Reduced ²
	С	23060	10 MHz				Reduced ³
		23095			25	12	Reduced ³
		23129					Reduced ³
		23060					Reduced ¹
		23095			50	0	Reduced ¹
		23129					Reduced ¹
		23060		16QAM	1	12	Reduced ⁴
		23095	1				Reduced ⁴
		23129					Reduced ⁴
		23060					Reduced ⁴
		23095				24	Reduced ⁴
		23129	1				Reduced ⁴
Band 12			All lower	bandwidths (5 MH	z)		Reduced⁵
699-716 MHz		23060	-	QPSK -	25 50	12	Reduced ⁶
		23095					Tested
		23129					Reduced ⁶
		23060					Reduced ¹
		23095					Reduced ¹
		23129					Reduced ¹
		23060					Reduced ⁶
		23095				12	Tested
		23129			1		Reduced ⁶
		23060			'		Reduced ²
		23095				24	Reduced ²
		23129	10 MHz				Reduced ²
	D	23060	10 10112				Reduced ³
		23095			25	12	Reduced ³
		23129					Reduced ³
		23060					Reduced ¹
		23095			50	0	Reduced ¹
		23129		16QAM			Reduced ¹
		23060		10001111			Reduced ⁴
		23095				12	Reduced ⁴
		23129			1		Reduced ⁴
		23060			•		Reduced ⁴
		23095				24	Reduced ⁴
		23129					Reduced ⁴
			All lower	bandwidths (5 MH	Z)		Reduced⁵

Reduced¹ – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.



Band/ Frequency (MHz)	Side	Required Test Channel	Bandwidth	Modulation	RB Allocation	RB Offset	Tested/ Reduced
		23060					Reduced ⁶
		23095			25	12	Tested
		23129		QPSK ·			Reduced ⁶
		23060			50		Reduced ¹
		23095	_			0	Reduced ¹
		23129					Reduced ¹
		23060			1		Reduced ⁶
		23095				12	Tested
		23129	10 MHz				Reduced ⁶
		23060					Reduced ²
		23095				24	Reduced ²
Band 12		23129					Reduced ²
699-716 MHz	E	23060					Reduced ³
099-7 10 WII IZ		23095			25	12	Reduced ³
		23129					Reduced ³
		23060					Reduced ¹
		23095			50	0	Reduced ¹
		23129		16QAM			Reduced ¹
		23060		TOQAIVI			Reduced ⁴
		23095				12	Reduced ⁴
		23129			1		Reduced ⁴
		23060			ı		Reduced ⁴
		23095	1			24	Reduced ⁴
		23129]				Reduced ⁴
			All lower	bandwidths (5 MH	z)		Reduced ⁵

Reduced¹ – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.

Reduced⁶- If the SAR value measured on the middle channel is less than 0.8 W/kg and the conducted power is within ±0.5 dB, the remaining channels are reduced per KDB941225 D05 page 4 footnote 2.

Side F Reduced based on distance in KDB 447498 D01 v06 (See below calculations).

Maximum power: 251.2 mW

Closest Distance to Side F: 110.0 mm

 $[\{[(3.0)/(\sqrt{0.849})]*50 \text{ mm}\}]+[\{110-50 \text{ mm}\}*10]=762 \text{ mW}$ which is greater than 251.2 mW



Donal		Deguired			DD	DD	Tootod/
Band/	Side	Required	Bandwidth	Modulation	RB	RB	Tested/
Frequency (MHz)		Test Channel			Allocation	Offset	Reduced
		23780					Reduced ⁶
		23790			25	12	Tested
		23800					Reduced ⁶
		23780			5 0		Reduced ¹
		23790			50	0	Reduced ¹
		23800		QPSK			Reduced ¹
		23780				12	Reduced ⁶
		23790				12	Tested
		23800			1		Reduced ⁶
		23780				0.4	Reduced ²
		23790				24	Reduced ²
	^	23800	10 MHz				Reduced ²
	Α	23780			05	40	Reduced ³
		23790	_		25	12	Reduced ³
		23800					Reduced ³
		23780			50	0	Reduced ¹
		23790					Reduced ¹
		23800		16QAM		12	Reduced ¹
		23780		TOWN	1		Reduced ⁴
		23790	-			12	Reduced ⁴
		23800					Reduced ⁴
		23780				0.4	Reduced ⁴
		23790				24	Reduced ⁴
Dan d 47		23800	All loves	bandwidths (5 MH	- \		Reduced ⁴ Reduced ⁵
Band 17 704-716 MHz		23780	All lower	Dalluwiuilis (3 MIII.	<i>_</i>)		Reduced ⁶
704-7 16 IVIHZ		23790	1		25	12	Tested
		23800					Reduced ⁶
		23780	-		50	0	Reduced ¹
		23790	-				Reduced ¹
		23800	-				Reduced ¹
		23780	-	QPSK			Reduced ⁶
		23790	-			12	Tested
		23800	-			12	Reduced ⁶
		23780			1		Reduced ²
		23790				24	Reduced ²
		23800				24	Reduced ²
	В	23780	10 MHz				Reduced ³
	Ь	23790			25	12	Reduced ³
		23800			25	12	Reduced ³
		23780					Reduced ¹
		23790			50	0	Reduced ¹
		23800	1		30	0	Reduced ¹
		23780	1	16QAM			Reduced ⁴
		23790				12	Reduced ⁴
		23800				12	Reduced ⁴
		23780			1		Reduced ⁴
						24	Reduced ⁴
		23790 23800				24	Reduced ⁴

Reduced¹ – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.



Band/		Required			RB	RB	Tested/
Frequency (MHz)	Side	Test Channel	Bandwidth	Modulation	Allocation	Offset	Reduced
r requericy (Wiriz)		23780			Allocation	Oliset	Reduced ⁶
		23790	-		25	12	Tested
		23800			25	12	Reduced ⁶
		23780					Reduced ¹
		23790			50	0	Reduced ¹
		23800	1		30	O	Reduced ¹
		23780		QPSK			Reduced ⁶
		23790				12	Tested
		23800	-				Reduced ⁶
		23780			1		Reduced ²
		23790				24	Reduced ²
		23800					Reduced ²
	С	23780	10 MHz				Reduced ³
	Ŭ	23790			25	12	Reduced ³
		23800					Reduced ³
		23780					Reduced ¹
		23790	1		50	0	Reduced ¹
		23800	1		1	12	Reduced ¹
		23780	1	16QAM -			Reduced ⁴
		23790	1				Reduced ⁴
		23800					Reduced ⁴
		23780					Reduced ⁴
		23790				24	Reduced ⁴
		23800	1				Reduced ⁴
Band 17			All lower	bandwidths (5 MH	z)		Reduced ⁵
704-716 MHz		23780		QPSK -	25 50	12	Reduced ⁶
		23790					Tested
		23800					Reduced ⁶
		23780					Reduced ¹
		23790					Reduced ¹
		23800					Reduced ¹
		23780					Reduced ⁶
		23790				12	Tested
		23800			1		Reduced ⁶
		23780			'		Reduced ²
		23790				24	Reduced ²
		23800	10 MHz				Reduced ²
	D	23780	10 1411 12				Reduced ³
		23790			25	12	Reduced ³
		23800					Reduced ³
		23780					Reduced ¹
		23790			50	0	Reduced ¹
		23800		16QAM			Reduced ¹
		23780		. 5 30 1111			Reduced ⁴
		23790				12	Reduced ⁴
		23800			1		Reduced ⁴
		23780			•		Reduced ⁴
		23790]			24	Reduced ⁴
		23800					Reduced ⁴
			All lower	bandwidths (5 MH	Z)		Reduced⁵

Reduced¹ – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.



Band/ Frequency (MHz)	Side	Required Test Channel	Bandwidth	Modulation	RB Allocation	RB Offset	Tested/ Reduced
		23780					Reduced ⁶
		23790			25	12	Tested
		23800		QPSK -			Reduced ⁶
		23780			50		Reduced ¹
		23790				0	Reduced ¹
		23800					Reduced ¹
		23780			1		Reduced ⁶
		23790				12	Tested
		23800	10 MHz				Reduced ⁶
		23780			'		Reduced ²
		23790				24	Reduced ²
Band 17		23800					Reduced ²
704-716 MHz	E	23780					Reduced ³
704 7 10 WH 12		23790			25	12	Reduced ³
		23800					Reduced ³
		23780					Reduced ¹
		23790			50	0	Reduced ¹
		23800		16QAM			Reduced ¹
		23780		TOQAW			Reduced ⁴
		23790				12	Reduced ⁴
		23800			1		Reduced ⁴
		23780			ı		Reduced ⁴
		23790				24	Reduced ⁴
		23800					Reduced ⁴
	1		All lower	bandwidths (5 MH	z)		Reduced ⁵

Reduced¹ – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.

Reduced⁶- If the SAR value measured on the middle channel is less than 0.8 W/kg and the conducted power is within ±0.5 dB, the remaining channels are reduced per KDB941225 D05 page 4 footnote 2.

Side F Reduced based on distance in KDB 447498 D01 v06 (See below calculations).

Maximum power: 251.2 mW

Closest Distance to Side F: 110.0 mm

 $[\{[(3.0)/(\sqrt{0.849})]*50 \text{ mm}\}]+[\{110-50 \text{ mm}\}*10]=762 \text{ mW}$ which is greater than 251.2 mW



SAR Data Summary – 750 MHz Body – LTE Band 12

MEA	MEASUREMENT RESULTS										
Gap	Plot	Position	Frequency		BW/ RB Modulation Size	RB Offset	MPR	End Power	Measured	Reported	
'			MHz	Ch.	Wodulation	Size	Oliset	Target	(dBm)	SAR (W/kg)	SAR (W/kg)
	1	Side A	707.5	23095	10 MHz/QPSK	1	24	0	22.48	0.558	0.71
		70	707.5	23095	10 MHz/QPSK	25	12	1	21.78	0.445	0.53
		Side B 707.5 707.5	707.5	23095	10 MHz/QPSK	1	24	0	22.48	0.171	0.22
			23095	10 MHz/QPSK	25	12	1	21.78	0.142	0.17	
10		Side C	707.5	23095	10 MHz/QPSK	1	24	0	22.48	0.537	0.68
mm		Side C	707.5	23095	10 MHz/QPSK	25	12	1	21.78	0.461	0.54
		Side D	707.5	23095	10 MHz/QPSK	1	24	0	22.48	0.337	0.43
		Side D	707.5	23095	10 MHz/QPSK	25	12	1	21.78	0.251	0.30
		Side E	707.5	23095	10 MHz/QPSK	1	24	0	22.48	0.0412	0.05
		Side E	707.5	23095	10 MHz/QPSK	25	12	1	21.78	0.0343	0.04

Body 1.6 W/kg (mW/g) averaged over 1 gram

1.	Battery is fully charged for a	all tests.		
	Power Measured		ERP	☐EIRP
2.	SAR Measurement			
	Phantom Configuration	Left Head	⊠Eli4	Right Head
	SAR Configuration	Head	\boxtimes Body	
3.	Test Signal Call Mode	☐Test Code	Base Station Sim	ulator
4.	Test Configuration		Without Belt Cli	p N/A
5	Tissue Depth is at least 15.0	cm		



SAR Data Summary – 750 MHz Body – LTE Band 13

MEA	MEASUREMENT RESULTS										
Gap	Plot	Position	Frequency		BW/ RB	RB Offset	MPR	End Power	Measured	Reported	
			MHz	Ch.	Modulation	Size	Oliset	Target	(dBm)	SAR (W/kg)	SAR (W/kg)
	2	Side A	782.0	23230	10 MHz/QPSK	1	24	0	22.56	0.497	0.62
			782.0	23230	10 MHz/QPSK	25	12	1	21.73	0.401	0.48
		Side B 782.0 782.0	782.0	23230	10 MHz/QPSK	1	24	0	22.56	0.164	0.20
			23230	10 MHz/QPSK	25	12	1	21.73	0.132	0.16	
10		Side C	782.0	23230	10 MHz/QPSK	1	24	0	22.56	0.439	0.55
mm		Side C	782.0	23230	10 MHz/QPSK	25	12	1	21.73	0.354	0.42
		Side D	782.0	23230	10 MHz/QPSK	1	24	0	22.56	0.248	0.31
		Side D	782.0	23230	10 MHz/QPSK	25	12	1	21.73	0.196	0.23
		Side E	782.0	23230	10 MHz/QPSK	1	24	0	22.56	0.0404	0.05
		Side E	782.0	23230	10 MHz/QPSK	25	12	1	21.73	0.0312	0.04

Body 1.6 W/kg (mW/g) averaged over 1 gram

1.	Battery is fully charged for a	all tests.		
	Power Measured		ERP	☐EIRP
2.	SAR Measurement			
	Phantom Configuration	Left Head	⊠Eli4	Right Head
	SAR Configuration	Head	\boxtimes Body	
3.	Test Signal Call Mode	☐Test Code	Base Station Sim	ulator
4.	Test Configuration		Without Belt Cli	p N/A
5	Tissue Depth is at least 15.0	cm		



SAR Data Summary – 750 MHz Body – LTE Band 17

MEA	MEASUREMENT RESULTS										
Gap	Plot	Position	Frequency		BW/ RB	RB Offset	MPR	End Power	Measured SAR (W/kg)	Reported SAR (W/kg)	
_			MHz	Ch.	Modulation	Size	Oliset	Target	(dBm)	SAN (W/kg)	SAR (W/kg)
	3	Side A	710.0	23790	10 MHz/QPSK	1	24	0	22.48	0.570	0.72
		71 Side A	710.0	23790	10 MHz/QPSK	25	12	1	21.78	0.465	0.55
		Side B 710.0 710.0	710.0	23790	10 MHz/QPSK	1	24	0	22.48	0.143	0.18
			23790	10 MHz/QPSK	25	12	1	21.78	0.111	0.13	
10		Side C	710.0	23790	10 MHz/QPSK	1	24	0	22.48	0.475	0.60
mm		Side C	710.0	23790	10 MHz/QPSK	25	12	1	21.78	0.382	0.45
		Side D	710.0	23790	10 MHz/QPSK	1	24	0	22.48	0.312	0.40
		Side D	710.0	23790	10 MHz/QPSK	25	12	1	21.78	0.207	0.24
		Side E	710.0	23790	10 MHz/QPSK	1	24	0	22.48	0.0435	0.06
		Side	710.0	23790	10 MHz/QPSK	25	12	1	21.78	0.032	0.04

Body 1.6 W/kg (mW/g) averaged over 1 gram

1.	Battery is fully charged for a	all tests.		
	Power Measured	⊠Conducted	□ERP	□EIRP
2.	SAR Measurement			
	Phantom Configuration	Left Head	⊠Eli4	Right Head
	SAR Configuration	Head	\boxtimes Body	
3.	Test Signal Call Mode	⊠Test Code	☐Base Station Sim	ulator
4.	Test Configuration	☐With Belt Clip	☐Without Belt Clip	N/A
5.	Tissue Depth is at least 15.0	cm		



Test Loop 1

0.0493

0.05

SAR Data Summary – 835 MHz Body - WCDMA

WCDMA

MEASUREMENT RESULTS End Measured Reported Frequency Plot Power **RMC** Gap Modulation **Position Test Set Up** SAR SAR Ch. (dBm) (W/kg) MHz (W/kg) WCDMA Side A 4 836.6 4183 23.13 12.2 kbps Test Loop 1 0.433 0.47 4183 **WCDMA** Side B 12.2 kbps Test Loop 1 0.122 0.13 836.6 23.13 10 WCDMA Side C 12.2 kbps Test Loop 1 836.6 4183 23.13 0.371 0.40 mm **WCDMA** 12.2 kbps 836.6 4183 Side D 23.13 Test Loop 1 0.160 0.17

Side E

1.	Battery is fully charged for a	all tests.		
	Power Measured		☐ERP	☐EIRP
2.	SAR Measurement			
	Phantom Configuration	Left Head	⊠Eli4	Right Head
	SAR Configuration	Head	\boxtimes Body	
3.	Test Signal Call Mode	⊠Test Code	Base Static	on Simulator
4.	Test Configuration	☐With Belt Clip	Without B	elt Clip N/A
5.	Tissue Depth is at least 15.0	cm		

23.13

12.2 kbps

836.6

4183



SAR Data Summary - 835 MHz Body - GPRS

MEASUREMENT RESULTS

Gap	Plot	Frequency		Rev Level/ Modulation	Position	End Power	TX Level	Multislot Configuration	Measured SAR	Reported SAR
		MHz	Ch.	Wiodulation		(dBm)	Level	Comiguration	(W/kg)	(W/kg)
10 mm	5	836.6	190	GMSK	Side A	32.15	5	2 Slot	0.390	0.60
		836.6	190	GMSK	Side B	32.15	5	2 Slot	0.120	0.18
		836.6	190	GMSK	Side C	32.15	5	2 Slot	0.332	0.51
		836.6	190	GMSK	Side D	32.15	5	2 Slot	0.160	0.25
		836.6	190	GMSK	Side E	32.15	5	2 Slot	0.0419	0.06

Body
1.6 W/kg (mW/g)
averaged over 1 gram

Without Belt Clip N/A

1.	Battery is fully charged for all tests.								
	Power Measured		□ERP	□EIRP					
2.	SAR Measurement								
	Phantom Configuration	Left Head	⊠Eli4	Right Head					
	SAR Configuration	Head	\boxtimes Body						
3.	Test Signal Call Mode	⊠Test Code	☐Base Station	Simulator					

With Belt Clip

4. Test Configuration5. Tissue Depth is at least 15.0 cm



SAR Data Summary – 835 MHz Body – LTE Band 5

MEA	SURE	MENT R	ESULTS	S							
Gap	Plot	Position	Frequ	iency	BW/	RB	RB	MPR	End Power	Measured SAR	Reported SAR
-			MHz	Ch.	Modulation	Size	Offset	Target	(dBm)	(W/kg)	(W/kg)
			829.0	20450	10 MHz/QPSK	1	24	0	21.72	0.521	0.88
	5	Side A	836.5	20525	10 MHz/QPSK	1	24	0	22.48	0.660	0.94
		Side A	844.0	20599	10 MHz/QPSK	1	24	0	21.66	0.509	0.87
			836.5	20525	10 MHz/QPSK	25	12	1	21.62	0.530	0.73
		Side B	836.5	20525	10 MHz/QPSK	1	24	0	22.48	0.205	0.29
10		Side b	836.5	20525	10 MHz/QPSK	25	12	1	21.62	0.163	0.22
mm		Side C	836.5	20525	10 MHz/QPSK	1	24	0	22.48	0.536	0.76
111111		Side C	836.5	20525	10 MHz/QPSK	25	12	1	21.62	0.433	0.60
		Side D	836.5	20525	10 MHz/QPSK	1	24	0	22.48	0.314	0.45
		Side D	836.5	20525	10 MHz/QPSK	25	12	1	21.62	0.259	0.36
-		Side E	836.5	20525	10 MHz/QPSK	1	24	0	22.48	0.056	0.08
		Side E	836.5	20525	10 MHz/QPSK	25	12	1	21.62	0.0474	0.07
		Repeat	836.5	20525	10 MHz/QPSK	1	24	0	22.48	0.651	0.92

1.	Battery is fully charged for a	ll tests.		
	Power Measured		□ERP	□EIRP
2.	SAR Measurement			
	Phantom Configuration	Left Head	⊠Eli4	☐Right Head
	SAR Configuration	Head	\boxtimes Body	
3.	Test Signal Call Mode	⊠Test Code	Base Sta	ation Simulator
4.	Test Configuration	☐With Belt Clip	Without	Belt Clip N/A
5.	Tissue Depth is at least 15.0			

Jay M. Moulton Vice President



SAR Data Summary – 1750 MHz Body – LTE Band 4

MEA	SURE	EMENT R	ESULT	S							
Gap	Plot	Position	·	iency	BW/ Modulation	RB Size	RB Offset	MPR Target	End Power	Measured SAR (W/kg)	Reported SAR (W/kg)
			MHz	Ch.				Ū	(dBm)		` •
			1720.0	20050	20 MHz/QPSK	1	49	0	22.74	0.991	1.18
			1732.5	20175	20 MHz/QPSK	1	49	0	22.69	1.06	1.28
		Side A	1745.0	20300	20 MHz/QPSK	1	49	0	22.84	1.03	1.20
		Side A	1720.0	20050	20 MHz/QPSK	50	24	1	21.34	0.775	1.01
			1732.5	20175	20 MHz/QPSK	50	24	1	22.12	0.853	0.93
			1745.0	20300	20 MHz/QPSK	50	24	1	21.98	0.912	1.03
		Side B	1732.5	20175	20 MHz/QPSK	1	49	0	22.69	0.358	0.43
		Side B	1732.5	20175	20 MHz/QPSK	50	24	1	22.12	0.298	0.33
10			1720.0	20050	20 MHz/QPSK	1	49	0	22.74	0.910	1.08
mm			1732.5	20175	20 MHz/QPSK	1	49	0	22.69	1.01	1.22
1111111	7	Side C	1745.0	20300	20 MHz/QPSK	1	49	0	22.84	1.11	1.29
		Side C	1720.0	20050	20 MHz/QPSK	50	24	1	21.34	0.733	0.96
			1732.5	20175	20 MHz/QPSK	50	24	1	22.12	0.869	0.95
			1745.0	20300	20 MHz/QPSK	50	24	1	21.98	0.936	1.06
		Side D	1732.5	20175	20 MHz/QPSK	1	49	0	22.69	0.360	0.43
		Side D	1732.5	20175	20 MHz/QPSK	50	24	1	22.12	0.305	0.33
		Cido E	1732.5	20175	20 MHz/QPSK	1	49	0	22.69	0.249	0.30
		Side E	1732.5	20175	20 MHz/QPSK	50	24	1	22.12	0.206	0.23
		Repeat	1720.0	20050	20 MHz/QPSK	1	49	0	22.84	1.09	1.27

Body 1.6 W/kg (mW/g) averaged over 1 gram

1.	Battery is fully charged for a	ll tests.		
	Power Measured	⊠Conducted	☐ERP	□EIRP
2.	SAR Measurement			
	Phantom Configuration	Left Head	⊠Eli4	Right Head
	SAR Configuration	Head	\boxtimes Body	
3.	Test Signal Call Mode	⊠Test Code	☐Base Station Sim	ulator
4.	Test Configuration	☐With Belt Clip	Without Belt Clip	p N/A
5.	Tissue Depth is at least 15.0	cm		

Jay M. Moulton Vice President



SAR Data Summary – 1900 MHz Body - WCDMA

MEASUREMENT RESULTS

Gap	Plot	Freque	ency	Rev Level/ Modulation	Position	End Power	RMC	Test Set Up	Measured SAR	Reported SAR
		MHz	Ch.	Wiodulation		(dBm)		_	(W/kg)	(W/kg)
		1852.4	9262	WCDMA		23.05	12.2 kbps	Test Loop 1	1.07	1.19
	8	1880.0	9400	WCDMA	Side A	23.32	12.2 kbps	Test Loop 1	1.36	1.42
10		1907.6	9538	WCDMA		23.38	12.2 kbps	Test Loop 1	1.20	1.23
		1852.4	9262	WCDMA	Side B	23.02	12.2 kbps	Test Loop 1	0.352	0.39
mm		1880.0	9400	WCDMA	Side C	23.02	12.2 kbps	Test Loop 1	0.615	0.69
		1852.4	9262	WCDMA	Side D	23.02	12.2 kbps	Test Loop 1	0.419	0.47
		1852.4	9262	WCDMA	Side E	23.02	12.2 kbps	Test Loop 1	0.348	0.39
		1907.6	9538	WCDMA	Repeat	23.32	12.2 kbps	Test Loop 1	1.32	1.38

Body 1.6 W/kg (mW/g) averaged over 1 gram

 Battery is fully charged for all tests. 	1.	Battery	is	fully	charged	for	all	tests.
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Power Measured Conducted ERP EIRP SAR Measurement Phantom Configuration SAR Configuration Head Test Signal Call Mode Test Configuration With Belt Clip Without Belt Clip	- •	= accery 15 1611			
Phantom Configuration		Power Measured		□ERP	EIRP
SAR Configuration Head Body Test Signal Call Mode Test Code Base Station Simulator	2.	SAR Measurement			
3. Test Signal Call Mode Test Code Base Station Simulator		Phantom Configuration	Left Head		Right Head
		SAR Configuration	Head	\boxtimes Body	
4. Test Configuration ☐With Belt Clip ☐Without Belt Clip ☒N/A	3.	Test Signal Call Mode	⊠Test Code	☐Base Station Simu	ılator
	4.	Test Configuration	☐With Belt Clip	☐Without Belt Clip	N/A

5. Tissue Depth is at least 15.0 cm

Jay M. Moulton Vice President



SAR Data Summary – 1900 MHz Body - GPRS

MEASUREMENT RESULTS

Gap	Plot	Freque	ency	Rev Level/ Modulation	Position	End Power	TX Level	Multislot	Measured SAR	Reported SAR
		MHz	Ch.	Modulation		(dBm)	Level	Configuration	(W/kg)	(W/kg)
		1850.2	512	GMSK		26.64	0	2 Slot	0.598	0.82
	9	1880.0	661	GMSK	Side A	26.72	0	2 Slot	0.667	0.90
10		1909.8	810	GMSK		26.47	0	2 Slot	0.567	0.81
		1880.0	661	GMSK	Side B	26.72	0	2 Slot	0.172	0.23
mm		1880.0	661	GMSK	Side C	26.72	0	2 Slot	0.285	0.38
		1880.0	661	GMSK	Side D	26.72	0	2 Slot	0.174	0.23
		1880.0	661	GMSK	Side E	26.72	0	2 Slot	0.167	0.22
		Repeated		GMSK	Side A	26.72	0	2 Slot	0.651	0.87

Body
1.6 W/kg (mW/g)
averaged over 1 gram

■Without Belt Clip

N/A

 Battery is fully charged for all test 	1.	Battery	is	fully	charged	for	all	tests	
---	----	----------------	----	-------	---------	-----	-----	-------	--

	Power Measured	∠Conducted	∐ERP	∐EIRP
2.	SAR Measurement			
	Phantom Configuration	Left Head	⊠Eli4	Right Head
	SAR Configuration	Head	\boxtimes Body	
3.	Test Signal Call Mode	⊠Test Code	Base Static	on Simulator

5. Tissue Depth is at least 15.0 cm

Jay M. Moulton Vice President



SAR Data Summary – 1900 MHz Body – LTE Band 2

MEA	SURE	MENT RI	ESULTS	3							
Gap	Plot	Position	Frequency		BW/ Modulation	RB	RB	MPR	End Power	Measured SAR	Reported SAR
_			MHz	Ch.	Modulation	Size	Offset	Target	(dBm)	(W/kg)	(W/kg)
	10		1860.0	18700	20 MHz/QPSK	1	49	0	22.99	1.15	1.29
			1880.0	18900	20 MHz/QPSK	1	49	0	22.82	1.14	1.33
		Side A	1900.0	19100	20 MHz/QPSK	1	49	0	22.06	0.948	1.32
10		Side A	1860.0	18700	20 MHz/QPSK	50	24	1	22.38	0.986	1.28
			1880.0	18900	20 MHz/QPSK	50	4	1	22.59	1.09	1.34
			1900.0	19100	20 MHz/QPSK	50	24	1	22.61	1.06	1.30
		Side B	1880.0	18900	20 MHz/QPSK	1	49	0	22.82	0.431	0.50
		Side b	1880.0	18900	20 MHz/QPSK	50	24	1	22.59	0.349	0.43
mm		Side C	1880.0	18900	20 MHz/QPSK	1	49	0	22.82	0.626	0.73
		Side C	1880.0	18900	20 MHz/QPSK	50	24	1	22.59	0.527	0.65
		Side D	1880.0	18900	20 MHz/QPSK	1	49	0	22.82	0.442	0.52
		Side D	1880.0	18900	20 MHz/QPSK	50	24	1	22.59	0.369	0.46
		Side E	1880.0	18900	20 MHz/QPSK	1	49	0	22.82	0.347	0.41
		Side	1880.0	18900	20 MHz/QPSK	50	24	1	22.59	0.272	0.34
		Repeat	1860.0	18700	20 MHz/QPSK	1	49	0	22.99	1.13	1.27

Body 1.6 W/kg (mW/g) averaged over 1 gram

 Battery is fully charged for all tests 	1.	Battery is	fully	charged	for a	all tests.	
--	----	------------	-------	---------	-------	------------	--

1.	Dattery is fully charged for a	iii tests.		
	Power Measured	⊠Conducted	□ERP	☐EIRP
2.	SAR Measurement			
	Phantom Configuration	Left Head	⊠Eli4	Right Head
	SAR Configuration	Head	\boxtimes Body	
3.	Test Signal Call Mode	⊠Test Code	Base Station Sim	ulator
4.	Test Configuration	☐With Belt Clip	☐Without Belt Clip	N/A
5.	Tissue Depth is at least 15.0	cm		

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Jay M. Moulton Vice President



SAR Data Summary – 2550 MHz Body – LTE Band 7

MEA	SUR	EMENT F	RESULT	ΓS							
Gap	Plot	Position	•	uency	BW/ Modulation	RB Size	RB Offset	MPR Target	End Power	Measured SAR (W/kg)	Reported SAR (W/kg)
			MHz	Ch.		Size	Oliset	rarget	(dBm)	SAN (W/Ng)	SAR (W/kg)
			2507.5	20850	20 MHz/QPSK	1	49	0	23.24	1.02	1.08
			2535.0	21100	20 MHz/QPSK	1	49	0	23.36	1.16	1.20
		Side A	2562.5	21350	20 MHz/QPSK	1	49	0	23.33	1.26	1.31
			2507.5	20850	20 MHz/QPSK	50	24	1	22.13	0.983	1.07
			2535.0	21100	20 MHz/QPSK	50	24	1	22.17	1.03	1.11
			2562.5	21350	20 MHz/QPSK	50	24	1	22.18	1.14	1.23
		Side B	2535.0	21100	20 MHz/QPSK	1	49	0	23.36	0.0455	0.05
		Side b	2535.0	21100	20 MHz/QPSK	50	24	1	22.17	0.0365	0.04
10	,	Side C	2535.0	21100	20 MHz/QPSK	1	49	0	23.36	0.504	0.52
mm		Side C	2535.0	21100	20 MHz/QPSK	50	24	1	22.17	0.416	0.45
1111111			2507.5	20850	20 MHz/QPSK	1	49	0	23.24	1.16	1.23
	12		2535.0	21100	20 MHz/QPSK	1	49	0	23.36	1.35	1.39
		Side D	2562.5	21350	20 MHz/QPSK	1	49	0	23.33	1.32	1.37
		Side D	2507.5	20850	20 MHz/QPSK	50	24	1	22.13	0.991	1.08
			2535.0	21100	20 MHz/QPSK	50	24	1	22.17	1.11	1.20
			2562.5	21350	20 MHz/QPSK	50	24	1	22.18	1.22	1.31
		Side E	2535.0	21100	20 MHz/QPSK	1	49	0	23.36	0.122	0.13
		Side E	2535.0	21100	20 MHz/QPSK	50	24	1	22.17	0.100	0.11
		Repeat	2535.0	21100	20 MHz/QPSK	1	49	0	23.36	1.32	1.36

Body 1.6 W/kg (mW/g) averaged over 1 gram

1.	Battery is fully charged for a	ll tests.		
	Power Measured	⊠Conducted	☐ERP	☐EIRP
2.	SAR Measurement			
	Phantom Configuration	Left Head	⊠Eli4	Right Head
	SAR Configuration	Head	\boxtimes Body	
3.	Test Signal Call Mode	⊠Test Code	☐Base Station Sim	ulator
4.	Test Configuration	☐With Belt Clip	Without Belt Cli	p N/A
5.	Tissue Depth is at least 15.0	cm		

Jay M. Moulton Vice President



Side D

2437

6

Report Number: SAR.20161204

SAR Data Summary – 2450 MHz Body 802.11b

MEASUREMENT RESULTS Reported Measured **End Power Frequency** Modulation **Antenna** SAR Gap Plot **Position** SAR MHz Ch. (dBm) (W/kg) (W/kg) 2437 6 DSSS 18.0 0.41 12 0.413 Side A 2462 11 DSSS 17.9 0.387 0.40 -----Chain 0 Side B 2437 DSSS 0.01 6 18.0 0.0138 10 Side C 2437 6 **DSSS** 18.0 0.15 0.145 mm Side A 2437 6 DSSS 18.0 0.235 0.24 ----Side C 2437 6 DSSS Chain 1 18.0 0.031 0.03

DSSS

Body 1.6 W/kg (mW/g) averaged over 1 gram

0.0121

0.01

18.0

1.	Battery is fully charged for a	ll tests.		
	Power Measured	⊠Conducted	□ERP	☐EIRP
2.	SAR Measurement			
	Phantom Configuration	Left Head	⊠Eli4	Right Head
	SAR Configuration	Head	\boxtimes Body	
3.	Test Signal Call Mode	⊠Test Code	☐Base Station Simu	lator
4.	Test Configuration	☐With Belt Clip	☐Without Belt Clip	⊠N/A
5.	Tissue Depth is at least 15.0	cm		

Jay M. Moulton Vice President



Side D

5220

Report Number: SAR.20161204

11.9

SAR Data Summary - 5200 MHz Body 802.11a

44

MEASUREMENT RESULTS Reported Measured **End Power** Frequency Plot **Position** Modulation **Antenna** SAR Gap SAR MHz Ch. (dBm) (W/kg) (W/kg) 13 Side A 5220 44 OFDM 9.3 0.249 0.29 Side B 5220 44 OFDM Chain 0 9.3 0.0128 0.02 Side C OFDM 0.09 10 5220 44 9.3 0.0785 Side A 5220 44 OFDM 11.9 0.118 0.12 mm Side C 5220 44 OFDM Chain 1 11.9 0.138 0.14 ----

OFDM

Body
1.6 W/kg (mW/g)
averaged over 1 gram

0.0112

0.01

1.	Battery is fully charged for a	ıll tests.		
	Power Measured		□ERP	☐EIRP
2.	SAR Measurement			
	Phantom Configuration	Left Head	⊠Eli4	Right Head
	SAR Configuration	Head	\boxtimes Body	
3.	Test Signal Call Mode	⊠Test Code	☐Base Station S	Simulator
4.	Test Configuration	With Belt Clip	Without Belt	Clip N/A
5.	Tissue Depth is at least 15.0	cm		

Jay M. Moulton Vice President



SAR Data Summary - 5800 MHz Body 802.11a

MEASUREMENT RESULTS Gap Plot Position Frequency Modulation Antenna End Power (dBm) Measured SAR (W/kg) Reported SAR (W/kg) ---- Side A 5785 157 OFDM 19.4 0.335 0.34 ---- Side B 5785 157 OFDM Chain 0 19.4 0.0172 0.02

			141112)			(abiii)	(vv/kg)	(vv/kg)
		Side A	5785	157	OFDM		19.4	0.335	0.34
		Side B	5785	157	OFDM	Chain 0	19.4	0.0172	0.02
10	14	Side C	5785	157	OFDM		19.4	0.131	0.13
mm		Side A	5785	157	OFDM		19.4	0.216	0.22
		Side C	5785	157	OFDM	Chain 1	19.4	0.0649	0.07
		Side D	5785	157	OFDM		19.4	0.136	0.14

Body
1.6 W/kg (mW/g)
averaged over 1 gram

	1.	Battery	is	fully	charged	for a	ıll t	ests.
--	----	----------------	----	-------	---------	-------	-------	-------

Power Measured	⊠Conducted [ERP	EIRP

2. SAR Measurement

DI III IVICUDUI CIIICIII			
Phantom Configuration	Left Head	⊠Eli4	Right Head
SAR Configuration	Head	\boxtimes Body	
	<u> </u>		

- Test Signal Call Mode
 Test Code
 Base Station Simulator
 With Belt Clip
 Without Belt Clip
- 5. Tissue Depth is at least 15.0 cm

Jay M. Moulton Vice President



SAR Data Summary – Simultaneous Transmit (Worst Case)

MEAS	SUREME	ENT R	RESULTS					
Plot	Freque (WLA	•	Frequenc	y (WWAN)	WWAN Technology	SAR (W/kg) WLAN	SAR (W/kg) WWAN	Total SAR (W/kg)
	MHz	Ch.	MHz	Ch.		WLAN	WWAIN	SAR (W/kg)
	2437	6	1880.0	9400	WCDMA Band 2	0.41	1.42	1.83
						Body		

Body
1.6 W/kg (mW/g)
averaged over 1 gram

The worst case condition is in the 2.4 GHz band. The WWAN and WLAN antennas are a minimum of 55 mm apart. Using the highest reported SAR to calculate the simultaneous Tx using peak separation ratio, the highest ratio would be 0.04 which meets the requirements of KDB 447498 section 4.3.2 3) on page 13. The calculation is shown below.

Simultaneous Separation Ratio Calculation

 $(SAR_1 + SAR_2)^{1.5}/R_i \le 0.04$ rounded to two digits

 $(0.41 + 1.42)^{1.5}/55 = 0.04$

SAR Data Summary – Simultaneous Transmit (WLAN MIMO)

MEAS	SUREM	ENT R	ESULTS	3			
Plot	Freque (WLA		Frequen	cy (WLAN)	SAR (W/kg) WLAN	SAR (W/kg) WWAN	Total SAR (W/kg)
	MHz	Ch.	MHz	Ch.		WWAIN	SAN (W/Ng)
	2437	6	0.40	0.81			
Body 1.6 W/kg (mW/g) averaged over 1 gram							

The sum of the two transmitters is less than the limit; therefore, the simultaneous transmission meets the requirements of KDB447498 D01 v06 section 4.3.2 page 11.



11. Test Equipment List

Table 11.1 Equipment Specifications

Туре	Calibration Due Date	Calibration Done Date	Serial Number
Staubli Robot TX60L	N/A	N/A	F07/55M6A1/A/01
Measurement Controller CS8c	N/A	N/A	1012
ELI4 Flat Phantom	N/A	N/A	1251
Device Holder	N/A	N/A	N/A
Data Acquisition Electronics 4	01/14/2017	01/14/2016	1321
SPEAG E-Field Probe EX3DV4	02/16/2017	02/16/2016	3311
SPEAG E-Field Probe EX3DV4	01/27/2017	01/27/2016	3833
Speag Validation Dipole D750V2	08/10/2017	08/10/2016	1053
Speag Validation Dipole D835V2	08/10/2017	08/10/2016	4d131
Speag Validation Dipole D1750V2	08/13/2017	08/13/2016	1061
Speag Validation Dipole D1900V2	08/13/2017	08/13/2016	5d147
Speag Validation Dipole D2450V2	08/10/2017	08/10/2016	881
Speag Validation Dipole D2550V2	08/10/2017	08/10/2016	1003
Speag Validation Dipole D5GHzV2	08/11/2017	08/11/2016	1119
Agilent N1911A Power Meter	05/20/2017	05/20/2015	GB45100254
Agilent N1922A Power Sensor	06/25/2017	06/25/2015	MY45240464
Advantest R3261A Spectrum Analyzer	03/26/2017	03/26/2015	31720068
Agilent (HP) 8350B Signal Generator	03/26/2017	03/26/2015	2749A10226
Agilent (HP) 83525A RF Plug-In	03/26/2017	03/26/2015	2647A01172
Agilent (HP) 8753C Vector Network Analyzer	03/26/2017	03/26/2015	3135A01724
Agilent (HP) 85047A S-Parameter Test Set	03/26/2017	03/26/2015	2904A00595
Agilent (HP) 8960 Base Station Sim.	03/31/2017	03/31/2015	MY48360364
Anritsu MT8820C	07/28/2017	07/28/2015	6201176199
Agilent 778D Dual Directional Coupler	N/A	N/A	MY48220184
MiniCircuits BW-N20W5+ Fixed 20 dB	N/A	N/A	N/A
Attenuator			
MiniCircuits SPL-10.7+ Low Pass Filter	N/A	N/A	R8979513746
Aprel Dielectric Probe Assembly	N/A	N/A	0011
Body Equivalent Matter (750 MHz)	N/A	N/A	N/A
Body Equivalent Matter (835 MHz)	N/A	N/A	N/A
Body Equivalent Matter (1750 MHz)	N/A	N/A	N/A
Body Equivalent Matter (1900 MHz)	N/A	N/A	N/A
Body Equivalent Matter (2450 MHz)	N/A	N/A	N/A
Body Equivalent Matter (2550 MHz)	N/A	N/A	N/A
Body Equivalent Matter (5 Ghz)	N/A	N/A	N/A



12. Conclusion

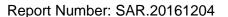
The SAR measurement indicates that the EUT complies with the RF radiation exposure limits of the FCC/IC. These measurements are taken to simulate the RF effects exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The tested device complies with the requirements in respect to all parameters subject to the test. The test results and statements relate only to the item(s) tested.

Please note that the absorption and distribution of electromagnetic energy in the body is a very complex phenomena that depends on the mass, shape, and size of the body; the orientation of the body with respect to the field vectors; and, the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g. ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g. age, gender, activity level, debilitation, or disease). Because innumerable factors may interact to determine the specific biological outcome of an exposure to electromagnetic fields, any protection guide shall consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables.



13. References

- [1] Federal Communications Commission, ET Docket 93-62, Guidelines for Evaluating the Environmental Effects of Radio Frequency Radiation, August 1996
- [2] ANSI/IEEE C95.1 1992, American National Standard Safety Levels with respect to Human Exposure to Radio Frequency Electromagnetic Fields, 300kHz to 100GHz, New York: IEEE, 1992.
- [3] ANSI/IEEE C95.3 2002, IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields RF and Microwave, New York: IEEE, 2002.
- [4] International Electrotechnical Commission, IEC 62209-2 (Edition 1.0), Human Exposure to radio frequency fields from hand-held and body mounted wireless communication devices Human models, instrumentation, and procedures Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz), March 2010.
- [5] IEEE Standard 1528 2013, IEEE Recommended Practice for Determining the Peak-Spatial Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communication Devices: Measurement Techniques, June 2013.
- [6] Industry Canada, RSS 102 Issue 5, Radio Frequency Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands), March 2015.
- [7] Health Canada, Safety Code 6, Limits of Human Exposure to Radiofrequency Electromagnetic Fields in the Frequency Range from 3kHz to 300 GHz, 2009.





Appendix A – System Validation Plots and Data

^{*} value interpolated



```
Test Result for UIM Dielectric Parameter
 Fri 02/Dec/2016
 Freq Frequency(GHz)
 FCC_eH Limits for Head Epsilon
 FCC_sH Limits for Head Sigma
 FCC_eB Limits for Body Epsilon
 FCC_sB Limits for Body Sigma
 Test_e Epsilon of UIM
 Test_s Sigma of UIM
  ***********
                          FCC_eB FCC_sB Test_e Test_s 55.32 0.97 56.05 0.96
 Freq
 0.8050

      0.8150
      55.28
      0.97
      56.00
      0.98

      0.8242
      55.243
      0.97
      55.954
      0.98*

      0.8250
      55.24
      0.97
      55.95
      0.98

      0.8264
      55.234
      0.97
      55.944
      0.981*

      0.8290
      55.224
      0.97
      55.934
      0.984*

      0.8350
      55.20
      0.97
      55.91
      0.99

      0.8365
      55.196
      0.972
      55.903
      0.99*

      0.8440
      55.173
      0.979
      55.865
      0.99*

      0.8450
      55.17
      0.98
      55.86
      0.99

      0.8488
      55.159
      0.982
      55.857
      0.992*

      0.8488
      55.159
      0.984
      55.852
      0.994*

      0.8650
      55.11
      1.01
      55.80
      1.01

      0.8750
      55.08
      1.02
      55.78
      1.03

      0.8950
      55.02
      1.04
      55.70
      1.04

                            55.28 0.97 56.00 0.98
 0.8150
 * value interpolated
 *****************
 Test Result for UIM Dielectric Parameter
 Thu 01/Dec/2016
 Freq Frequency(GHz)
 FCC_eH Limits for Head Epsilon
 FCC_sH Limits for Head Sigma
 FCC_eB Limits for Body Epsilon
 FCC_sB Limits for Body Sigma
 Test_e Epsilon of UIM
 Test_s Sigma of UIM
 Freq FCC_eB FCC_sB Test_e Test_s
 1.7100 53.53 1.47 53.39 1.47
1.7200 53.51 1.47 53.36 1.48
1.7300 53.48 1.48 53.32 1.49
1.7325 53.475 1.48 53.313 1.493*

    1.7325
    53.475 1.48
    53.313 1.493*

    1.7400
    53.46 1.48
    53.29 1.50

    1.7450
    53.445 1.485
    53.28 1.505*

    1.7500
    53.43 1.49 53.27 1.51

    1.7600
    53.41 1.49 53.25 1.52

    1.7700
    53.38 1.50 53.22 1.53

    1.7800
    53.35 1.51 53.20 1.54
```

* value interpolated



Test Result for UIM Dielectric Parameter Fri 02/Dec/2016 Freq Frequency(GHz) FCC_eH Limits for Head Epsilon FCC_sH Limits for Head Sigma FCC_eB Limits for Body Epsilon FCC_sB Limits for Body Sigma Test_e Epsilon of UIM Test_s Sigma of UIM *********** FCC_eB FCC_sB Test_e Test_s 53.30 1.52 52.61 1.51 53.30 1.52 52.59 1.52 Freq 1.8400 1.8500

 1.8500
 53.30
 1.52
 52.59
 1.52

 1.8502
 53.30
 1.52
 52.59
 1.52*

 1.8524
 53.30
 1.52
 52.585
 1.522*

 1.8600
 53.30
 1.52
 52.57
 1.53

 1.8700
 53.30
 1.52
 52.54
 1.53

 1.8800
 53.30
 1.52
 52.52
 1.54

 1.8900
 53.30
 1.52
 52.50
 1.55

 1.9000
 53.30
 1.52
 52.48
 1.55

 1.9076
 53.30
 1.52
 52.465
 1.558*

 1.9088
 53.30
 1.52
 52.462
 1.559*

 1.9100
 53.30
 1.52
 52.46
 1.56

 1.9200
 53.30
 1.52
 52.43
 1.57

 * value interpolated Test Result for UIM Dielectric Parameter Sat 03/Dec/2016 Freq Frequency(GHz) FCC_eH Limits for Head Epsilon FCC_sH Limits for Head Sigma FCC_eB Limits for Body Epsilon FCC_sB Limits for Body Sigma Test_e Epsilon of UIM Test s Sigma of UIM ***************

 2.5700
 52.55
 2.12
 52.36
 2.14

 2.5800
 52.53
 2.13
 52.34
 2.15

 2.5900
 52.52
 2.15
 52.32
 2.17

^{*} value interpolated



************ Test Result for UIM Dielectric Parameter Sat 03/Dec/2016 Freq Frequency(GHz) FCC_eH Limits for Head Epsilon ${\tt FCC_sH\ Limits\ for\ Head\ Sigma}$ FCC_eB Limits for Body Epsilon FCC_sB Limits for Body Sigma Test_e Epsilon of UIM Test_s Sigma of UIM ****************

^{*} value interpolated



Test Result for UIM Dielectric Parameter Mon 05/Dec/2016 Freq Frequency(GHz) FCC_eH Limits for Head Epsilon FCC_sH Limits for Head Sigma FCC_eB Limits for Body Epsilon FCC_sB Limits for Body Sigma Test_e Epsilon of UIM Test_s Sigma of UIM *********** FCC_eB FCC_sB Test_e Test_s 49.15 5.18 49.02 5.17 49.12 5.21 48.99 5.20 Freq 5.1000 5.1200 49.10 5.23 48.96 5.22 5.1400

^{*} value interpolated



RF Exposure Lab

Plot 1

DUT: Dipole 750 MHz D750V3; Type: D750V3; Serial: D750V3 - SN:1053

Communication System: CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: MSL750; Medium parameters used: f = 750 MHz; σ = 0.98 S/m; ε_f = 55.38; ρ = 1000 kg/m³

Phantom section: Flat Section

Test Date: Date: 12/4/2016; Ambient Temp: 23 °C; Tissue Temp: 21 °C

Probe: EX3DV4 - SN3833; ConvF(9.23, 9.23, 9.23); Calibrated: 1/27/2016;

Sensor-Surface: 2mm (Mechanical Surface Detection) Electronics: DAE4 Sn1321; Calibrated: 1/14/2016 Phantom: ELI v5.0; Type: QDOVA001BB; Serial: 1251

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Procedure Notes:

750 MHz/Verification/Area Scan (5x11x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.09 W/kg

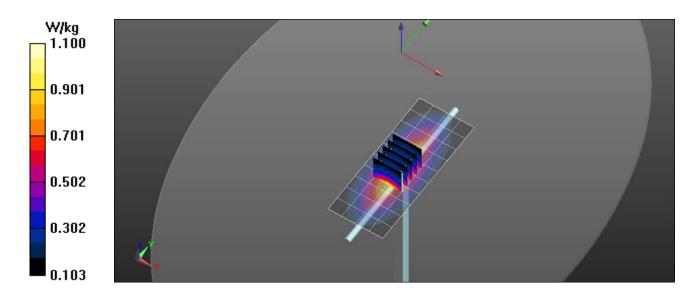
750 MHz/Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 31.143 V/m; Power Drift = 0.01 dB

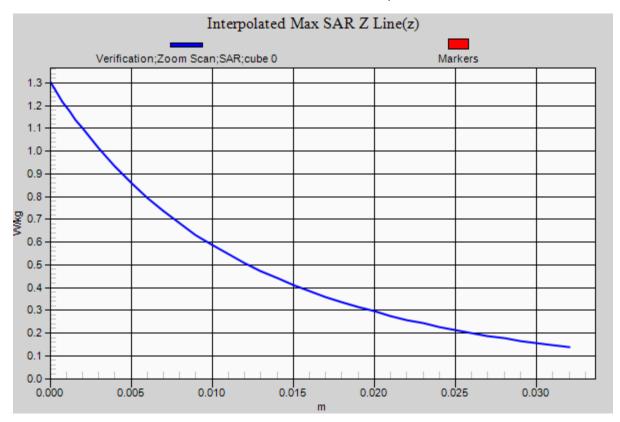
Peak SAR (extrapolated) = 1.31 W/kg

 P_{in} = 100 mW

SAR(1 g) = 0.852 W/kg; SAR(10 g) = 0.551 W/kg Maximum value of SAR (measured) = 1.10 W/kg









RF Exposure Lab

Plot 2

DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:4d131

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: MSL835; Medium parameters used: f = 835 MHz; σ = 0.99 S/m; ϵ_r = 55.91; ρ = 1000 kg/m³

Phantom section: Flat Section

Test Date: Date: 12/2/2016; Ambient Temp: 23 °C; Tissue Temp: 21 °C Probe: EX3DV4 - SN3833: ConvF(8.73, 8.73, 8.73); Calibrated: 1/27/2016:

Sensor-Surface: 2mm (Mechanical Surface Detection) Electronics: DAE4 Sn1321; Calibrated: 1/14/2016 Phantom: ELI v5.0; Type: QDOVA001BB; Serial: 1251

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Procedure Notes:

835 MHz Body/Verification/Area Scan (81x161x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 1.27 W/kg

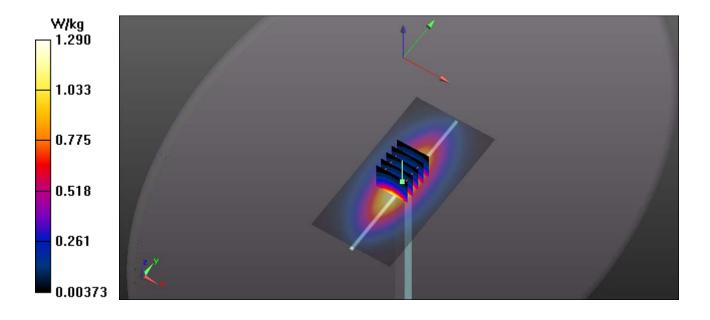
835 MHz Body/Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 52.435 V/m; Power Drift = -0.03 dB

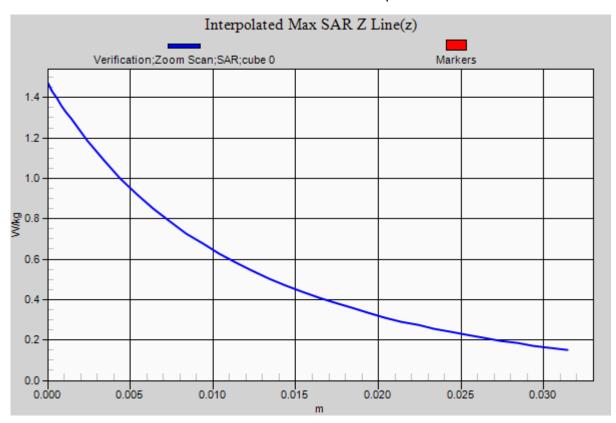
Peak SAR (extrapolated) = 1.42 W/kg

Pin= 100 mW

SAR(1 g) = 0.947 W/kg; SAR(10 g) = 0.625 W/kg Maximum value of SAR (measured) = 1.28 W/kg









RF Exposure Lab

Plot 3

DUT: Dipole 1750 MHz D1750V2; Type: D1750V2; Serial: D1750V2 - SN:1061

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: MSL1750; Medium parameters used: f = 1750 MHz; $\sigma = 1.51 \text{ S/m}$; $\epsilon_r = 53.27$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Test Date: Date: 12/1/2016; Ambient Temp: 23 °C; Tissue Temp: 21 °C

Probe: EX3DV4 - SN3833; ConvF(7.32, 7.32, 7.32); Calibrated: 1/27/2016;

Sensor-Surface: 2mm (Mechanical Surface Detection) Electronics: DAE4 Sn1321; Calibrated: 1/14/2016 Phantom: ELI v5.0; Type: QDOVA001BB; Serial: 1251

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Procedure Notes:

1750 MHz/Verification/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 5.31 W/kg

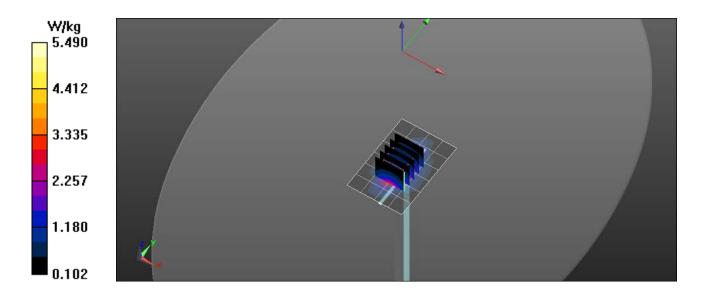
1750 MHz/Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 31.489 V/m; Power Drift = -0.02 dB

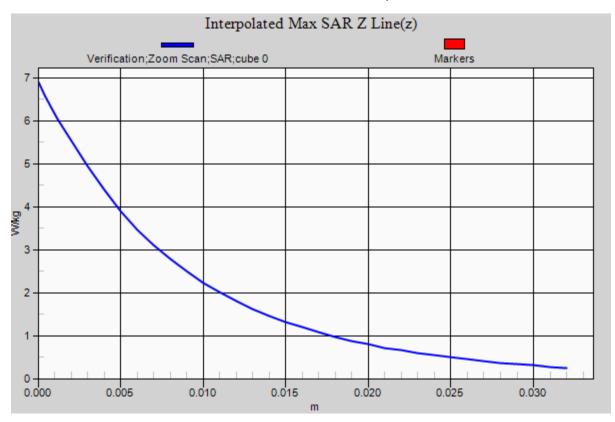
Peak SAR (extrapolated) = 6.92 W/kg

 $P_{in}\!\!=100\;mW$

SAR(1 g) = 3.81 W/kg; SAR(10 g) = 2 W/kg Maximum value of SAR (measured) = 5.47 W/kg









RF Exposure Lab

Plot 4

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN:5d147

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: MSL1900; Medium parameters used: f = 1900 MHz; $\sigma = 1.55 \text{ S/m}$; $\epsilon_r = 52.48$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Test Date: Date: 12/2/2016; Ambient Temp: 23 °C; Tissue Temp: 21 °C Probe: EX3DV4 - SN3833: ConvF(7.13, 7.13, 7.13); Calibrated: 1/27/2016:

Sensor-Surface: 2mm (Mechanical Surface Detection) Electronics: DAE4 Sn1321; Calibrated: 1/14/2016 Phantom: ELI v5.0; Type: QDOVA001BB; Serial: 1251

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Procedure Notes:

1900 MHz Body/Verification/Area Scan (61x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 5.59 W/kg

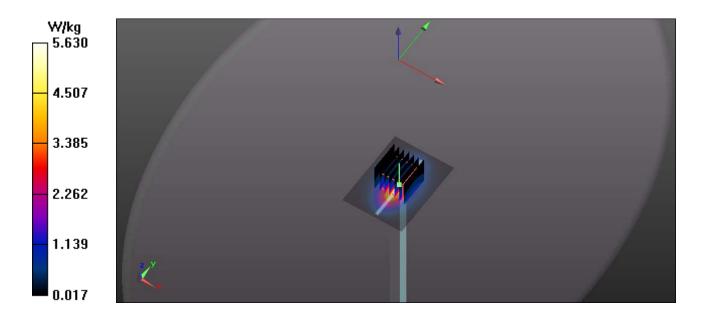
1900 MHz Body/Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 52.559 V/m; Power Drift = -0.01 dB

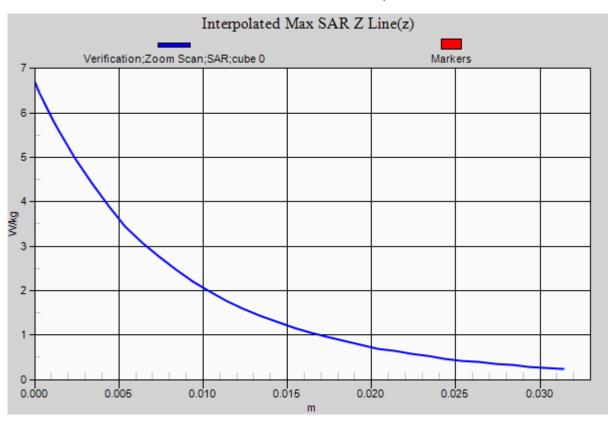
Peak SAR (extrapolated) = 6.67 W/kg

Pin= 100 mW

SAR(1 g) = 4.01 W/kg; SAR(10 g) = 2.06 W/kg Maximum value of SAR (measured) = 5.62 W/kg









RF Exposure Lab

Plot 5

DUT: Dipole 2550 MHz D2550V2; Type: D2550V2; Serial: D2550V2 - SN:1003

Communication System: CW; Frequency: 2550 MHz; Duty Cycle: 1:1

Medium: MSL2600; Medium parameters used: f = 2550 MHz; $\sigma = 2.11 \text{ S/m}$; $\epsilon_{r} = 52.4$; $\rho = 1000 \text{ kg/m}^{3}$

Phantom section: Flat Section

Test Date: Date: 12/3/2016; Ambient Temp: 23 °C; Tissue Temp: 21 °C Probe: EX3DV4 - SN3311; ConvF(4.17, 4.17, 4.17); Calibrated: 2/16/2016;

Sensor-Surface: 3mm (Mechanical Surface Detection) Electronics: DAE4 Sn1321; Calibrated: 1/14/2016 Phantom: ELI v5.0; Type: QDOVA001BB; Serial: 1251

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Procedure Notes:

2550 MHz Body/Verification/Area Scan (61x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 9.17 W/kg

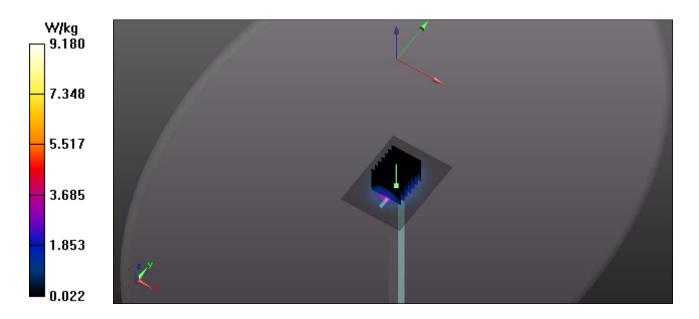
2550 MHz Body/Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.222 V/m; Power Drift = -0.01 dB

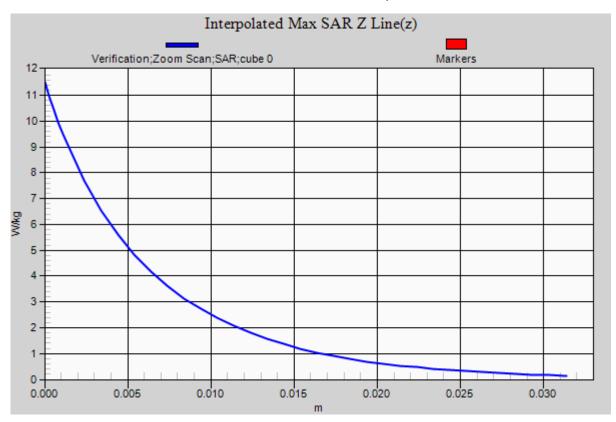
Peak SAR (extrapolated) = 11.4 W/kg

Pin= 100 mW

SAR(1 g) = 5.4 W/kg; SAR(10 g) = 2.43 W/kg Maximum value of SAR (measured) = 8.99 W/kg









RF Exposure Lab

Plot 6

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2; Serial: D2450V2 - SN: 881

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: MSL2450; Medium parameters used: f = 2450 MHz; $\sigma = 1.96 \text{ S/m}$; $\epsilon_r = 52.51$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Test Date: Date: 12/3/2016; Ambient Temp: 23 °C; Tissue Temp: 21 °C Probe: EX3DV4 - SN3833; ConvF(6.87, 6.87, 6.87); Calibrated: 1/27/2016;

Sensor-Surface: 2mm (Mechanical Surface Detection) Electronics: DAE4 Sn1321; Calibrated: 1/14/2016 Phantom: ELI v5.0; Type: QDOVA001BB; Serial: 1251

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Procedure Notes:

Body Verification/2450 MHz/Area Scan (61x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 8.87 W/kg

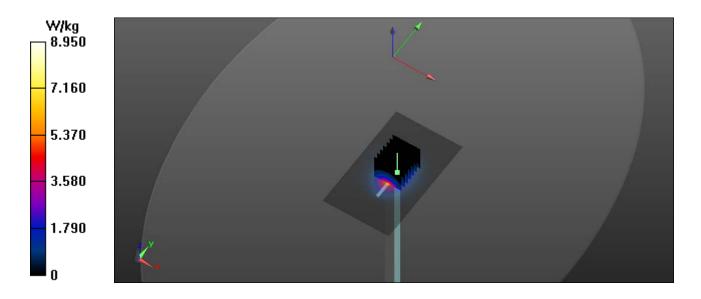
Body Verification/2450 MHz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 53.517 V/m; Power Drift = -0.03 dB

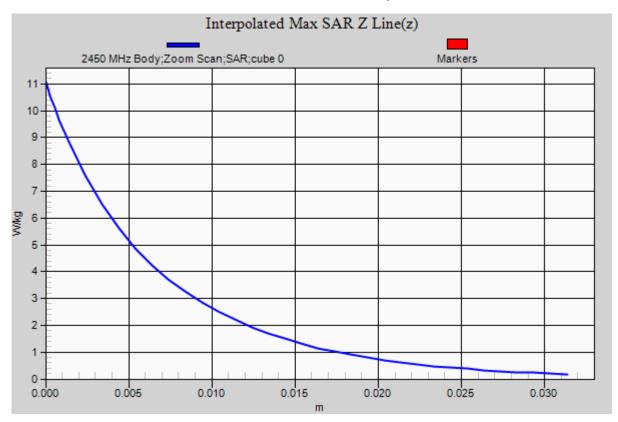
Peak SAR (extrapolated) = 11.13 W/kg

Pin= 100 mW

SAR(1 g) = 5.19 W/kg; SAR(10 g) = 2.43 W/kg Maximum value of SAR (measured) = 8.92 W/kg









RF Exposure Lab

Plot 7

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN: 1119

Communication System: CW; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium: MSL 3-6 GHz; Medium parameters used: f = 5200 MHz; $\sigma = 5.3$ S/m; $\epsilon_r = 48.88$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Test Date: Date: 12/5/2016; Ambient Temp: 23 °C; Tissue Temp: 21 °C Probe: EX3DV4 - SN3833: ConvF(4.03, 4.03, 4.03); Calibrated: 1/27/2016:

Sensor-Surface: 2mm (Mechanical Surface Detection) Electronics: DAE4 Sn1321; Calibrated: 1/14/2016 Phantom: ELI v5.0; Type: QDOVA001BB; Serial: 1251

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Procedure Notes:

Body Verification/5200 MHz/Area Scan (61x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 1.88 W/kg

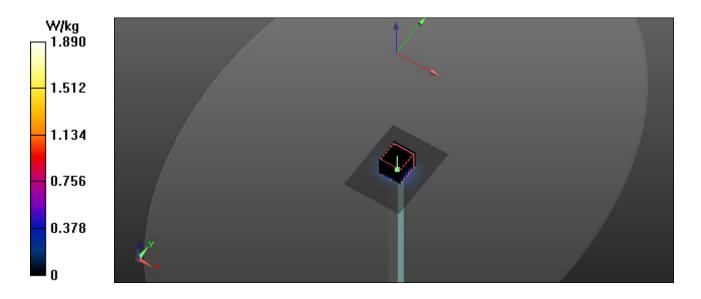
Body Verification/5200 MHz/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 12.256 V/m; Power Drift = 0.03 dB

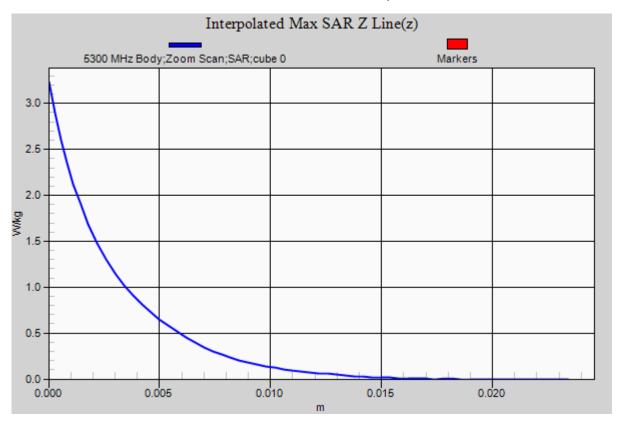
Peak SAR (extrapolated) = 3.2 W/kg

Pin=10 mW

SAR(1 g) = 0.78 W/kg; SAR(10 g) = 0.213 W/kg Maximum value of SAR (measured) = 1.9 W/kg









RF Exposure Lab

Plot 8

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN: 1119

Communication System: CW; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: MSL 3-6 GHz; Medium parameters used: f = 5800 MHz; $\sigma = 6.03$ S/m; $\epsilon_r = 48.05$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Test Date: Date: 12/5/2016; Ambient Temp: 23 °C; Tissue Temp: 21 °C Probe: EX3DV4 - SN3833; ConvF(3.49, 3.49, 3.49); Calibrated: 1/27/2016;

Sensor-Surface: 2mm (Mechanical Surface Detection) Electronics: DAE4 Sn1321; Calibrated: 1/14/2016 Phantom: ELI v5.0; Type: QDOVA001BB; Serial: 1251

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Procedure Notes:

Body Verification/5800 MHz/Area Scan (61x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 1.78 W/kg

Body Verification/5800 MHz/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 12.689 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 2.91 W/kg

Pin=10 mW

SAR(1 g) = 0.791 W/kg; SAR(10 g) = 0.214 W/kg Maximum value of SAR (measured) = 1.77 W/kg

