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Subject: Sony Mobile Communications AB  
 FCC ID: PY7PM-0620

To Whom it May Concern

MPR is permanently implemented for this device. Also, we confirm the specific MPR targets shown below:

- 1) The LTE MPR Targets for Band 5 with Tethering mode “Off” are:

Mode/Band	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Target MPR [dB]	MPR Allowed per 3GPP [dB]
LTE Band 5	1.4	QPSK	1	0	0	0
	1.4	QPSK	1	2	0	0
	1.4	QPSK	1	5	0	0
	1.4	QPSK	3	0	0	0
	1.4	QPSK	3	2	0	0
	1.4	QPSK	3	3	0	0
	1.4	QPSK	6	0	1	0-1
	1.4	16-QAM	1	0	1	0-1
	1.4	16-QAM	1	2	1	0-1
	1.4	16-QAM	1	5	1	0-1
	1.4	16-QAM	3	0	1	0-1
	1.4	16-QAM	3	2	1	0-1
	1.4	16-QAM	3	3	1	0-1
	1.4	16-QAM	6	0	2	0-2
	3	QPSK	1	0	0	0
	3	QPSK	1	7	0	0
	3	QPSK	1	14	0	0
	3	QPSK	8	0	1	0-1
	3	QPSK	8	4	1	0-1
	3	QPSK	8	7	1	0-1
	3	QPSK	15	0	1	0-1
	3	16-QAM	1	0	1	0-1
	3	16-QAM	1	7	1	0-1
	3	16-QAM	1	14	1	0-1
	3	16-QAM	8	0	2	0-2
	3	16-QAM	8	4	2	0-2
	3	16-QAM	8	7	2	0-2
	3	16-QAM	15	0	2	0-2
	5	QPSK	1	0	0	0
	5	QPSK	1	12	0	0
	5	QPSK	1	24	0	0
	5	QPSK	12	0	1	0-1
	5	QPSK	12	6	1	0-1
	5	QPSK	12	13	1	0-1
	5	QPSK	25	0	1	0-1
	5	16-QAM	1	0	1	0-1
	5	16-QAM	1	12	1	0-1
	5	16-QAM	1	24	1	0-1
	5	16-QAM	12	0	2	0-2
	5	16-QAM	12	6	2	0-2
	5	16-QAM	12	13	2	0-2
	5	16-QAM	25	0	2	0-2
	10	QPSK	1	0	0	0
	10	QPSK	1	25	0	0
	10	QPSK	1	49	0	0
	10	QPSK	25	0	1	0-1
	10	QPSK	25	12	1	0-1
	10	QPSK	25	25	1	0-1
	10	QPSK	50	0	1	0-1
	10	16QAM	1	0	1	0-1
10	16QAM	1	25	1	0-1	
10	16QAM	1	49	1	0-1	
10	16QAM	25	0	2	0-2	
10	16QAM	25	12	2	0-2	
10	16QAM	25	25	2	0-2	
10	16QAM	50	0	2	0-2	

2) The LTE MPR Targets for Band 4 with Tethering mode “Off” are:

Mode/Band	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Target MPR [dB]	MPR Allowed per 3GPP [dB]
LTE Band 4	1.4	QPSK	1	0	0	0
	1.4	QPSK	1	2	0	0
	1.4	QPSK	1	5	0	0
	1.4	QPSK	3	0	0	0
	1.4	QPSK	3	2	0	0
	1.4	QPSK	3	3	0	0
	1.4	QPSK	6	0	1	0-1
	1.4	16-QAM	1	0	1	0-1
	1.4	16-QAM	1	2	1	0-1
	1.4	16-QAM	1	5	1	0-1
	1.4	16-QAM	3	0	1	0-1
	1.4	16-QAM	3	2	1	0-1
	1.4	16-QAM	3	3	1	0-1
	1.4	16-QAM	6	0	2	0-2
	3	QPSK	1	0	0	0
	3	QPSK	1	7	0	0
	3	QPSK	1	14	0	0
	3	QPSK	8	0	1	0-1
	3	QPSK	8	4	1	0-1
	3	QPSK	8	7	1	0-1
	3	QPSK	15	0	1	0-1
	3	16-QAM	1	0	1	0-1
	3	16-QAM	1	7	1	0-1
	3	16-QAM	1	14	1	0-1
	3	16-QAM	8	0	2	0-2
	3	16-QAM	8	4	2	0-2
	3	16-QAM	8	7	2	0-2
	3	16-QAM	15	0	2	0-2
	5	QPSK	1	0	0	0
	5	QPSK	1	12	0	0
	5	QPSK	1	24	0	0
	5	QPSK	12	0	1	0-1
	5	QPSK	12	6	1	0-1
	5	QPSK	12	13	1	0-1
	5	QPSK	25	0	1	0-1
	5	16-QAM	1	0	1	0-1
	5	16-QAM	1	12	1	0-1
	5	16-QAM	1	24	1	0-1
	5	16-QAM	12	0	2	0-2
	5	16-QAM	12	6	2	0-2
	5	16-QAM	12	13	2	0-2
	5	16-QAM	25	0	2	0-2
	10	QPSK	1	0	0	0
	10	QPSK	1	25	0	0
	10	QPSK	1	49	0	0
	10	QPSK	25	0	1	0-1
	10	QPSK	25	12	1	0-1
	10	QPSK	25	25	1	0-1
	10	QPSK	50	0	1	0-1
	10	16QAM	1	0	1	0-1
	10	16QAM	1	25	1	0-1
	10	16QAM	1	49	1	0-1
	10	16QAM	25	0	2	0-2
	10	16QAM	25	12	2	0-2
	10	16QAM	25	25	2	0-2
	10	16QAM	50	0	2	0-2
	15	QPSK	1	0	0	0
	15	QPSK	1	36	0	0
	15	QPSK	1	74	0	0
	15	QPSK	36	0	1	0-1
15	QPSK	36	18	1	0-1	
15	QPSK	36	37	1	0-1	
15	QPSK	75	0	1	0-1	
15	16QAM	1	0	1	0-1	
15	16QAM	1	36	1	0-1	
15	16QAM	1	74	1	0-1	
15	16QAM	36	0	2	0-2	
15	16QAM	36	18	2	0-2	
15	16QAM	36	37	2	0-2	
15	16QAM	75	0	2	0-2	
20	QPSK	1	0	0	0	
20	QPSK	1	50	0	0	
20	QPSK	1	99	0	0	
20	QPSK	50	0	1	0-1	
20	QPSK	50	25	1	0-1	
20	QPSK	50	50	1	0-1	
20	QPSK	100	0	1	0-1	
20	16QAM	1	0	1	0-1	
20	16QAM	1	50	1	0-1	
20	16QAM	1	99	1	0-1	
20	16QAM	50	0	2	0-2	
20	16QAM	50	25	2	0-2	
20	16QAM	50	50	2	0-2	
20	16QAM	100	0	2	0-2	

3) The LTE MPR Targets for Band 4 with Tethering mode “On” are:

Mode/Band	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Target MPR [dB]	MPR Allowed per 3GPP [dB]
LTE Band 4	1.4	QPSK	1	0	0	0
	1.4	QPSK	1	2	0	0
	1.4	QPSK	1	5	0	0
	1.4	QPSK	3	0	0	0
	1.4	QPSK	3	2	0	0
	1.4	QPSK	3	3	0	0
	1.4	QPSK	6	0	0	0-1
	1.4	16-QAM	1	0	0	0-1
	1.4	16-QAM	1	2	0	0-1
	1.4	16-QAM	1	5	0	0-1
	1.4	16-QAM	3	0	0	0-1
	1.4	16-QAM	3	2	0	0-1
	1.4	16-QAM	3	3	0	0-1
	1.4	16-QAM	6	0	0	0-2
	3	QPSK	1	0	0	0
	3	QPSK	1	7	0	0
	3	QPSK	1	14	0	0
	3	QPSK	8	0	0	0-1
	3	QPSK	8	4	0	0-1
	3	QPSK	8	7	0	0-1
	3	QPSK	15	0	0	0-1
	3	16-QAM	1	0	0	0-1
	3	16-QAM	1	7	0	0-1
	3	16-QAM	1	14	0	0-1
	3	16-QAM	8	0	0	0-2
	3	16-QAM	8	4	0	0-2
	3	16-QAM	8	7	0	0-2
	3	16-QAM	15	0	0	0-2
	5	QPSK	1	0	0	0
	5	QPSK	1	12	0	0
	5	QPSK	1	24	0	0
	5	QPSK	12	0	0	0-1
	5	QPSK	12	6	0	0-1
	5	QPSK	12	13	0	0-1
	5	QPSK	25	0	0	0-1
	5	16-QAM	1	0	0	0-1
	5	16-QAM	1	12	0	0-1
	5	16-QAM	1	24	0	0-1
	5	16-QAM	12	0	0	0-2
	5	16-QAM	12	6	0	0-2
	5	16-QAM	12	13	0	0-2
	5	16-QAM	25	0	0	0-2
	10	QPSK	1	0	0	0
	10	QPSK	1	25	0	0
	10	QPSK	1	49	0	0
	10	QPSK	25	0	0	0-1
	10	QPSK	25	12	0	0-1
	10	QPSK	25	25	0	0-1
	10	QPSK	50	0	0	0-1
	10	16QAM	1	0	0	0-1
	10	16QAM	1	25	0	0-1
	10	16QAM	1	49	0	0-1
	10	16QAM	25	0	0	0-2
	10	16QAM	25	12	0	0-2
	10	16QAM	25	25	0	0-2
	10	16QAM	50	0	0	0-2
	15	QPSK	1	0	0	0
	15	QPSK	1	36	0	0
	15	QPSK	1	74	0	0
	15	QPSK	36	0	0	0-1
	15	QPSK	36	18	0	0-1
	15	QPSK	36	37	0	0-1
	15	QPSK	75	0	0	0-1
	15	16QAM	1	0	0	0-1
	15	16QAM	1	36	0	0-1
	15	16QAM	1	74	0	0-1
	15	16QAM	36	0	0	0-2
	15	16QAM	36	18	0	0-2
	15	16QAM	36	37	0	0-2
	15	16QAM	75	0	0	0-2
20	QPSK	1	0	0	0	
20	QPSK	1	50	0	0	
20	QPSK	1	99	0	0	
20	QPSK	50	0	0	0-1	
20	QPSK	50	25	0	0-1	
20	QPSK	50	50	0	0-1	
20	QPSK	100	0	0	0-1	
20	16QAM	1	0	0	0-1	
20	16QAM	1	50	0	0-1	
20	16QAM	1	99	0	0-1	
20	16QAM	50	0	0	0-2	
20	16QAM	50	25	0	0-2	
20	16QAM	50	50	0	0-2	
20	16QAM	100	0	0	0-2	

4) The LTE MPR Targets for Band 2 with Tethering mode “Off” are:

Mode/Band	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Target MPR [dB]	MPR Allowed per 3GPP [dB]
LTE Band 2	1.4	QPSK	1	0	0	0
	1.4	QPSK	1	2	0	0
	1.4	QPSK	1	5	0	0
	1.4	QPSK	3	0	0	0
	1.4	QPSK	3	2	0	0
	1.4	QPSK	3	3	0	0
	1.4	QPSK	6	0	1	0-1
	1.4	16-QAM	1	0	1	0-1
	1.4	16-QAM	1	2	1	0-1
	1.4	16-QAM	1	5	1	0-1
	1.4	16-QAM	3	0	1	0-1
	1.4	16-QAM	3	2	1	0-1
	1.4	16-QAM	3	3	1	0-1
	1.4	16-QAM	6	0	2	0-2
	3	QPSK	1	0	0	0
	3	QPSK	1	7	0	0
	3	QPSK	1	14	0	0
	3	QPSK	8	0	1	0-1
	3	QPSK	8	4	1	0-1
	3	QPSK	8	7	1	0-1
	3	QPSK	15	0	1	0-1
	3	16-QAM	1	0	1	0-1
	3	16-QAM	1	7	1	0-1
	3	16-QAM	1	14	1	0-1
	3	16-QAM	8	0	2	0-2
	3	16-QAM	8	4	2	0-2
	3	16-QAM	8	7	2	0-2
	3	16-QAM	15	0	2	0-2
	5	QPSK	1	0	0	0
	5	QPSK	1	12	0	0
	5	QPSK	1	24	0	0
	5	QPSK	12	0	1	0-1
	5	QPSK	12	6	1	0-1
	5	QPSK	12	13	1	0-1
	5	QPSK	25	0	1	0-1
	5	16-QAM	1	0	1	0-1
	5	16-QAM	1	12	1	0-1
	5	16-QAM	1	24	1	0-1
	5	16-QAM	12	0	2	0-2
	5	16-QAM	12	6	2	0-2
	5	16-QAM	12	13	2	0-2
	5	16-QAM	25	0	2	0-2
	10	QPSK	1	0	0	0
	10	QPSK	1	25	0	0
	10	QPSK	1	49	0	0
	10	QPSK	25	0	1	0-1
	10	QPSK	25	12	1	0-1
	10	QPSK	25	25	1	0-1
	10	QPSK	50	0	1	0-1
	10	16QAM	1	0	1	0-1
	10	16QAM	1	25	1	0-1
	10	16QAM	1	49	1	0-1
	10	16QAM	25	0	2	0-2
	10	16QAM	25	12	2	0-2
	10	16QAM	25	25	2	0-2
	10	16QAM	50	0	2	0-2
	15	QPSK	1	0	0	0
	15	QPSK	1	36	0	0
	15	QPSK	1	74	0	0
	15	QPSK	36	0	1	0-1
	15	QPSK	36	18	1	0-1
	15	QPSK	36	37	1	0-1
	15	QPSK	75	0	1	0-1
	15	16QAM	1	0	1	0-1
	15	16QAM	1	36	1	0-1
	15	16QAM	1	74	1	0-1
	15	16QAM	36	0	2	0-2
	15	16QAM	36	18	2	0-2
	15	16QAM	36	37	2	0-2
	15	16QAM	75	0	2	0-2
20	QPSK	1	0	0	0	
20	QPSK	1	50	0	0	
20	QPSK	1	99	0	0	
20	QPSK	50	0	1	0-1	
20	QPSK	50	25	1	0-1	
20	QPSK	50	50	1	0-1	
20	QPSK	100	0	1	0-1	
20	16QAM	1	0	1	0-1	
20	16QAM	1	50	1	0-1	
20	16QAM	1	99	1	0-1	
20	16QAM	50	0	2	0-2	
20	16QAM	50	25	2	0-2	
20	16QAM	50	50	2	0-2	
20	16QAM	100	0	2	0-2	

5) The LTE MPR Targets for Band 2 with Tethering mode “On” are:

Mode/Band	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Target MPR [dB]	MPR Allowed per 3GPP [dB]
LTE Band 2	1.4	QPSK	1	0	0	0
	1.4	QPSK	1	2	0	0
	1.4	QPSK	1	5	0	0
	1.4	QPSK	3	0	0	0
	1.4	QPSK	3	2	0	0
	1.4	QPSK	3	3	0	0
	1.4	QPSK	6	0	0	0-1
	1.4	16-QAM	1	0	0	0-1
	1.4	16-QAM	1	2	0	0-1
	1.4	16-QAM	1	5	0	0-1
	1.4	16-QAM	3	0	0	0-1
	1.4	16-QAM	3	2	0	0-1
	1.4	16-QAM	3	3	0	0-1
	1.4	16-QAM	6	0	0	0-2
	3	QPSK	1	0	0	0
	3	QPSK	1	7	0	0
	3	QPSK	1	14	0	0
	3	QPSK	8	0	0	0-1
	3	QPSK	8	4	0	0-1
	3	QPSK	8	7	0	0-1
	3	QPSK	15	0	0	0-1
	3	16-QAM	1	0	0	0-1
	3	16-QAM	1	7	0	0-1
	3	16-QAM	1	14	0	0-1
	3	16-QAM	8	0	0	0-2
	3	16-QAM	8	4	0	0-2
	3	16-QAM	8	7	0	0-2
	3	16-QAM	15	0	0	0-2
	5	QPSK	1	0	0	0
	5	QPSK	1	12	0	0
	5	QPSK	1	24	0	0
	5	QPSK	12	0	0	0-1
	5	QPSK	12	6	0	0-1
	5	QPSK	12	13	0	0-1
	5	QPSK	25	0	0	0-1
	5	16-QAM	1	0	0	0-1
	5	16-QAM	1	12	0	0-1
	5	16-QAM	1	24	0	0-1
	5	16-QAM	12	0	0	0-2
	5	16-QAM	12	6	0	0-2
	5	16-QAM	12	13	0	0-2
	5	16-QAM	25	0	0	0-2
	10	QPSK	1	0	0	0
	10	QPSK	1	25	0	0
	10	QPSK	1	49	0	0
	10	QPSK	25	0	0	0-1
	10	QPSK	25	12	0	0-1
	10	QPSK	25	25	0	0-1
	10	QPSK	50	0	0	0-1
	10	16QAM	1	0	0	0-1
	10	16QAM	1	25	0	0-1
	10	16QAM	1	49	0	0-1
	10	16QAM	25	0	0	0-2
	10	16QAM	25	12	0	0-2
	10	16QAM	25	25	0	0-2
	10	16QAM	50	0	0	0-2
	15	QPSK	1	0	0	0
	15	QPSK	1	36	0	0
	15	QPSK	1	74	0	0
	15	QPSK	36	0	0	0-1
15	QPSK	36	18	0	0-1	
15	QPSK	36	37	0	0-1	
15	QPSK	75	0	0	0-1	
15	16QAM	1	0	0	0-1	
15	16QAM	1	36	0	0-1	
15	16QAM	1	74	0	0-1	
15	16QAM	36	0	0	0-2	
15	16QAM	36	18	0	0-2	
15	16QAM	36	37	0	0-2	
15	16QAM	75	0	0	0-2	
20	QPSK	1	0	0	0	
20	QPSK	1	50	0	0	
20	QPSK	1	99	0	0	
20	QPSK	50	0	0	0-1	
20	QPSK	50	25	0	0-1	
20	QPSK	50	50	0	0-1	
20	QPSK	100	0	0	0-1	
20	16QAM	1	0	0	0-1	
20	16QAM	1	50	0	0-1	
20	16QAM	1	99	0	0-1	
20	16QAM	50	0	0	0-2	
20	16QAM	50	25	0	0-2	
20	16QAM	50	50	0	0-2	
20	16QAM	100	0	0	0-2	

6) The LTE MPR Targets for Band 7 with Tethering mode “Off” are:

Mode/Band	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Target MPR [dB]	MPR Allowed per 3GPP [dB]	
LTE Band 7	5	QPSK	1	0	0	0	
	5	QPSK	1	12	0	0	
	5	QPSK	1	24	0	0	
	5	QPSK	12	0	0	0-1	
	5	QPSK	12	6	0	0-1	
	5	QPSK	12	13	0	0-1	
	5	QPSK	25	0	0	0-1	
	5	16-QAM	1	0	0	0-1	
	5	16-QAM	1	12	0	0-1	
	5	16-QAM	1	24	0	0-1	
	5	16-QAM	12	0	0	0-2	
	5	16-QAM	12	6	0	0-2	
	5	16-QAM	12	13	0	0-2	
	5	16-QAM	25	0	0	0-2	
	10	QPSK	1	0	0	0	0
	10	QPSK	1	25	0	0	0
	10	QPSK	1	49	0	0	0
	10	QPSK	25	0	0	0	0-1
	10	QPSK	25	12	0	0	0-1
	10	QPSK	25	25	0	0	0-1
	10	QPSK	50	0	0	0	0-1
	10	16QAM	1	0	0	0	0-1
	10	16QAM	1	25	0	0	0-1
	10	16QAM	1	49	0	0	0-1
	10	16QAM	25	0	0	0	0-2
	10	16QAM	25	12	0	0	0-2
	10	16QAM	25	25	0	0	0-2
	10	16QAM	50	0	0	0	0-2
	15	QPSK	1	0	0	0	0
	15	QPSK	1	36	0	0	0
	15	QPSK	1	74	0	0	0
	15	QPSK	36	0	0	0	0-1
	15	QPSK	36	18	0	0	0-1
	15	QPSK	36	37	0	0	0-1
	15	QPSK	75	0	0	0	0-1
	15	16QAM	1	0	0	0	0-1
	15	16QAM	1	36	0	0	0-1
	15	16QAM	1	74	0	0	0-1
	15	16QAM	36	0	0	0	0-2
	15	16QAM	36	18	0	0	0-2
	15	16QAM	36	37	0	0	0-2
	15	16QAM	75	0	0	0	0-2
	20	QPSK	1	0	0	0	0
	20	QPSK	1	49	0	0	0
	20	QPSK	1	99	0	0	0
	20	QPSK	50	0	0	0	0-1
	20	QPSK	50	25	0	0	0-1
	20	QPSK	50	50	0	0	0-1
	20	QPSK	100	0	0	0	0-1
	20	16QAM	1	0	0	0	0-1
20	16QAM	1	49	0	0	0-1	
20	16QAM	1	99	0	0	0-1	
20	16QAM	50	0	0	0	0-2	
20	16QAM	50	25	0	0	0-2	
20	16QAM	50	50	0	0	0-2	
20	16QAM	100	0	0	0	0-2	

7) The LTE MPR Targets for Band 7 with Tethering mode “On” are:

Mode/Band	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Target MPR [dB]	MPR Allowed per 3GPP [dB]
LTE Band 7	5	QPSK	1	0	0	0
	5	QPSK	1	12	0	0
	5	QPSK	1	24	0	0
	5	QPSK	12	0	0	0-1
	5	QPSK	12	6	0	0-1
	5	QPSK	12	13	0	0-1
	5	QPSK	25	0	0	0-1
	5	16-QAM	1	0	0	0-1
	5	16-QAM	1	12	0	0-1
	5	16-QAM	1	24	0	0-1
	5	16-QAM	12	0	0	0-2
	5	16-QAM	12	6	0	0-2
	5	16-QAM	12	13	0	0-2
	5	16-QAM	25	0	0	0-2
	10	QPSK	1	0	0	0
	10	QPSK	1	25	0	0
	10	QPSK	1	49	0	0
	10	QPSK	25	0	0	0-1
	10	QPSK	25	12	0	0-1
	10	QPSK	25	25	0	0-1
	10	QPSK	50	0	0	0-1
	10	16QAM	1	0	0	0-1
	10	16QAM	1	25	0	0-1
	10	16QAM	1	49	0	0-1
	10	16QAM	25	0	0	0-2
	10	16QAM	25	12	0	0-2
	10	16QAM	25	25	0	0-2
	10	16QAM	50	0	0	0-2
	15	QPSK	1	0	0	0
	15	QPSK	1	36	0	0
	15	QPSK	1	74	0	0
	15	QPSK	36	0	0	0-1
	15	QPSK	36	18	0	0-1
	15	QPSK	36	37	0	0-1
	15	QPSK	75	0	0	0-1
	15	16QAM	1	0	0	0-1
	15	16QAM	1	36	0	0-1
	15	16QAM	1	74	0	0-1
	15	16QAM	36	0	0	0-2
	15	16QAM	36	18	0	0-2
	15	16QAM	36	37	0	0-2
	15	16QAM	75	0	0	0-2
	20	QPSK	1	0	0	0
	20	QPSK	1	49	0	0
20	QPSK	1	99	0	0	
20	QPSK	50	0	0	0-1	
20	QPSK	50	25	0	0-1	
20	QPSK	50	50	0	0-1	
20	QPSK	100	0	0	0-1	
20	16QAM	1	0	0	0-1	
20	16QAM	1	49	0	0-1	
20	16QAM	1	99	0	0-1	
20	16QAM	50	0	0	0-2	
20	16QAM	50	25	0	0-2	
20	16QAM	50	50	0	0-2	
20	16QAM	100	0	0	0-2	

Should you have any questions or comments concerning the above, please contact the undersigned.

Sincerely,

*S. Tomioka*

**Engineer : Satofumi,Tomioka**  
**Sony Mobile Communications AB**