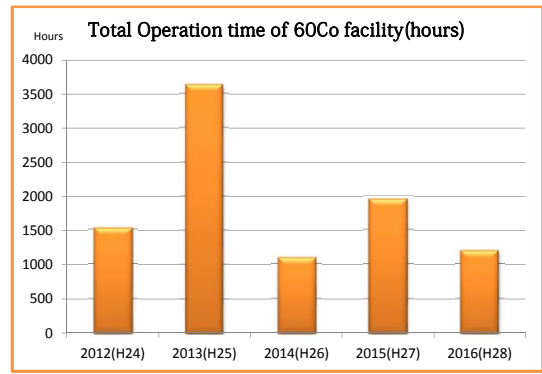
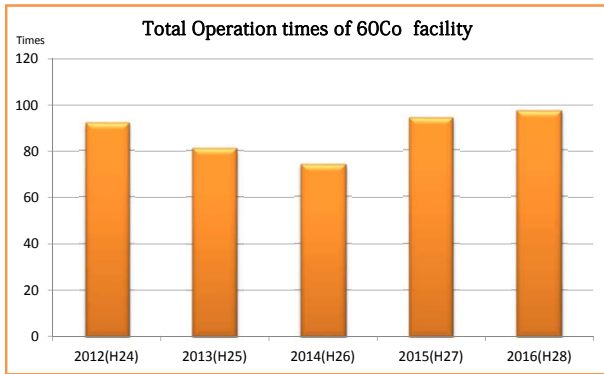
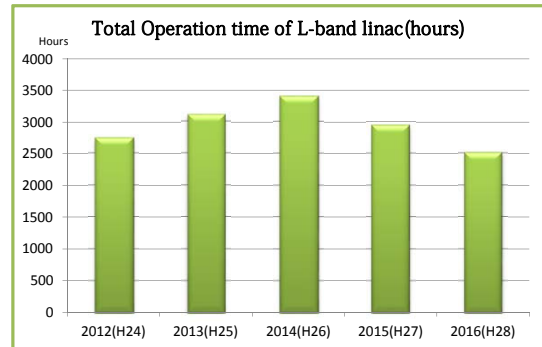
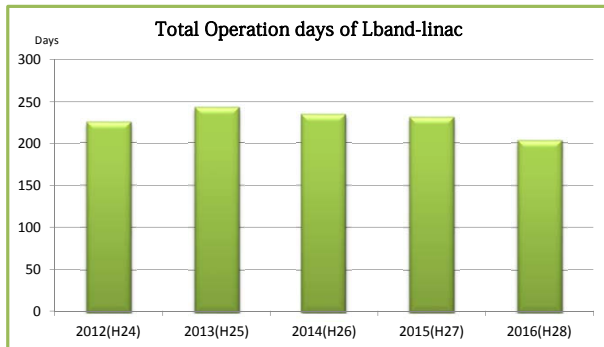


Progress in Past 5 years

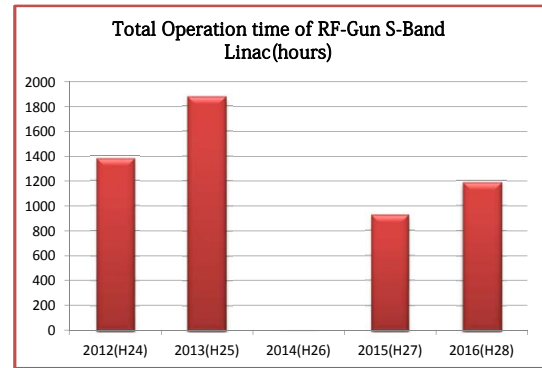
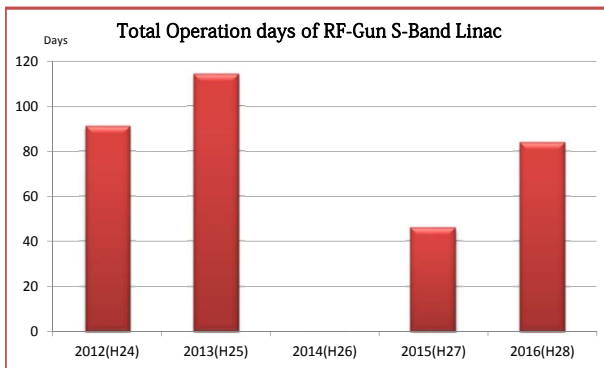
Operation of Cobalt60(Except maintenance use)											
Year	2012(H24)	2013(H25)	2014(H26)	2015(H27)	2016(H28)	Year	2012(H24)	2013(H25)	2014(H26)	2015(H27)	2016(H28)
Total Times	92	81	74	94	97	Total Hours	1526	3637	1095	1951	1201



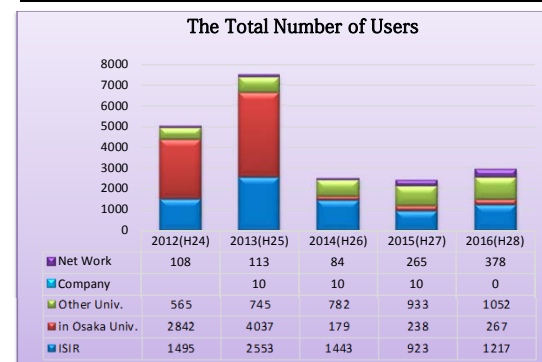
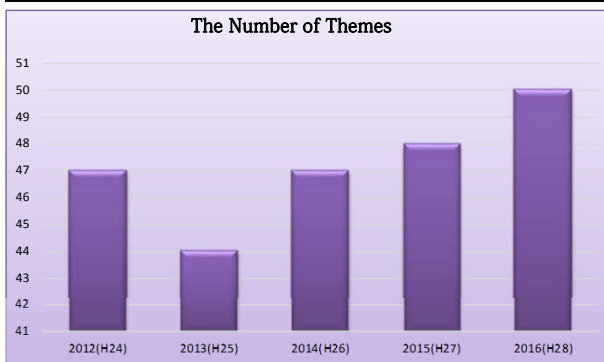
Operation of L-band electron Linac(Except maintenance use)											
Year	2012(H24)	2013(H25)	2014(H26)	2015(H27)	2016(H28)	Year	2012(H24)	2013(H25)	2014(H26)	2015(H27)	2016(H28)
Total Days	225	242	234	231	203	Total Hours	2745	3112	3407	2951	2514



Operation of Laser Photocathode RF-Gun S-Band Linac(Except maintenance use)											
Year	2012(H24)	2013(H25)	2014(H26)	2015(H27)	2016(H28)	Year	2012(H24)	2013(H25)	2014(H26)	2015(H27)	2016(H28)
Total Days	91	114	0	46	84	Total Hours	1380	1876	0	923	1189



All Machines											
Year	2012(H24)	2013(H25)	2014(H26)	2015(H27)	2016(H28)	Year	2012(H24)	2013(H25)	2014(H26)	2015(H27)	2016(H28)
Total Themes	47	44	47	48	50	Total Numbers	5010	7458	2498	2369	2914



****2016 Joint User Groups ****

<In Osaka University>

Graduated School of Engineering Science/Radioisotope Research Center/Graduated School of Science /Institute of Laser Engineering /ISIR

<Other Institutions>

kobe Univ./Waseda Univ./ Osaka Prefecture Univ./ Miyazaki Univ./ Kyushu Univ./ Nagoya Institute of Technology/ Kyoto Institute of Technology

Kyoto Univ./ AIST./ Gunma Univ./ Tohoku Univ./ Univ. of Hyogo/ Hokkaido Univ./ Mie Univ./ NAIST./

Daikin Joint Study Team/ Setsunan Univ./ Other 8 Overseas

<Companies>

• Mitsubishi Electric

**** 2016Network Joint Research for Materials and Devices****

Graduate School of Engineering Science /Tohoku Univ. / RIKEN/ Kobe Univ./ Kanazawa Univ./ Gunma Univ./

Hiroshima International Univ./ Saitama Univ./ Fukui Univ./ Japan Atomic Energy Agency.