

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL020916\
 Data File : VL026840.D
 Acq On : 10 Feb 2016 4:52
 Operator : SY/AP
 Sample : H1388-01DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-1DL

Manual Integrations
 APPROVED

MMDadoda
 2/11/2016 1:23:54 PM

Quant Time: Feb 10 07:54:43 2016
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL020916AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 10 2016
 QLast Update : Wed Feb 10 03:14:04 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.69	49	1710801	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.37	114	4808569	10.00	ppbv	-0.01
55) Chlorobenzene-d5	13.79	117	4613614	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.33	95	3262337	9.85	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.60	51	381443m	1.37	ppbv	
9) Propene	3.64	41	22779	0.30	ppbv #	82
13) Ethanol	4.35	45	759379	58.88	ppbv	99
15) Acetone	4.63	43	3751359	15.96	ppbv	100
19) Isopropyl Alcohol	4.79	45	341470	4.07	ppbv #	92
25) Ethyl Acetate	6.72	43	47886	0.14	ppbv #	93
52) Tetrachloroethene	12.83	164	10310	0.07	ppbv #	81
53) Toluene	11.28	91	65139	0.15	ppbv	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

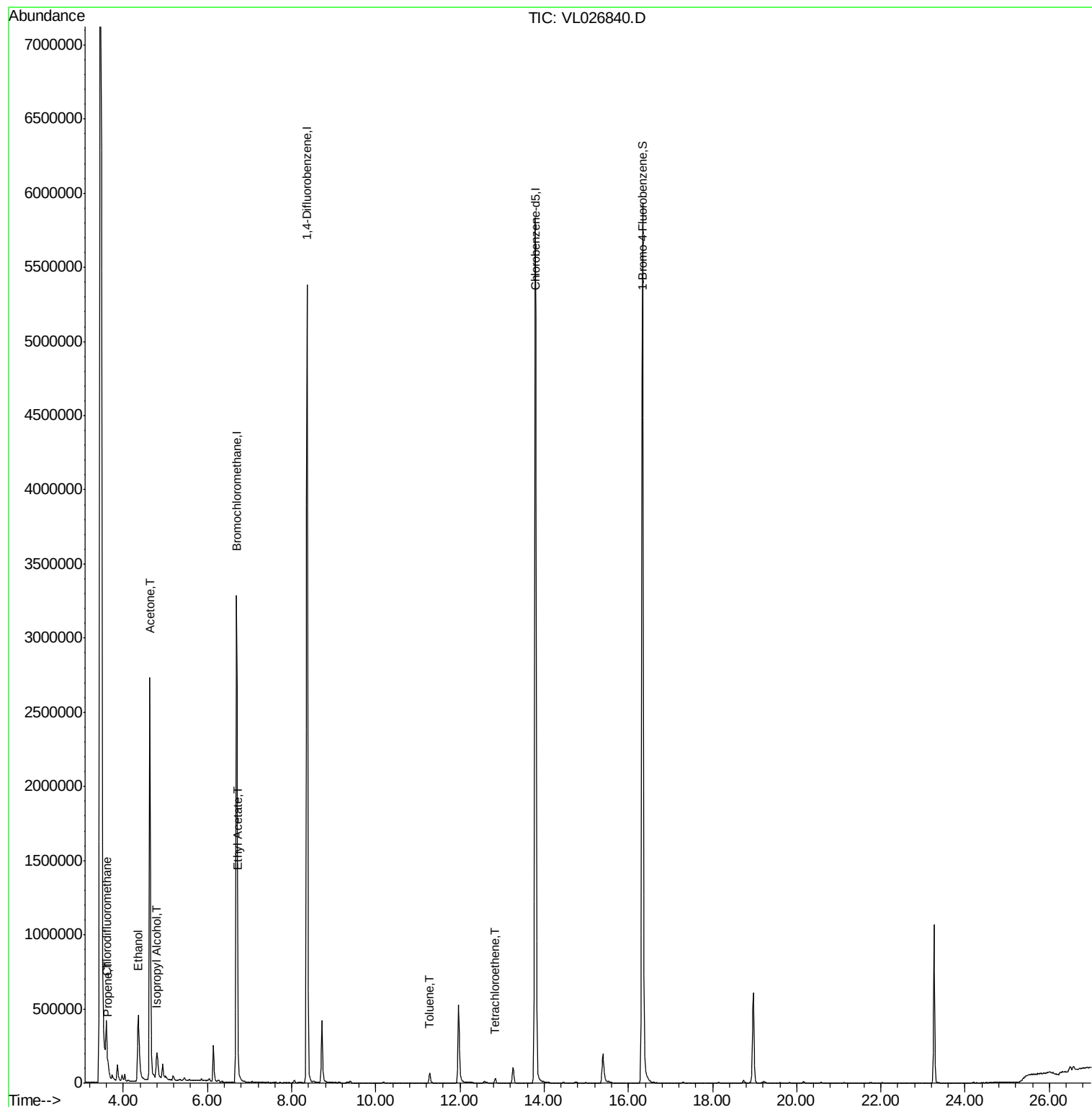
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL020916\
Data File : VL026840.D
Acq On : 10 Feb 2016 4:52
Operator : SY/AP
Sample : H1388-01DL 10X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

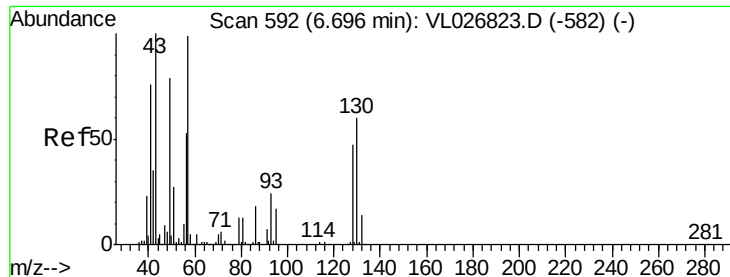
Instrument :
MSVOA_L
ClientSampled :
IAS-1DL

Manual Integrations
APPROVED

MMDadoda
2/11/2016 1:23:54 PM

Quant Time: Feb 10 07:54:43 2016
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL020916AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb
QLast Update : Wed Feb 10 03:14:04 2016
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.69 min Scan# 591

Delta R.T. -0.01 min

Lab File: VL026840.D

Acq: 10 Feb 2016 4:52

Instrument :

MSVOA_L

ClientSampled :

IAS-1DL

Tot Ion: 49 Resp: 1710801

Ion Ratio Lower Upper

49 100

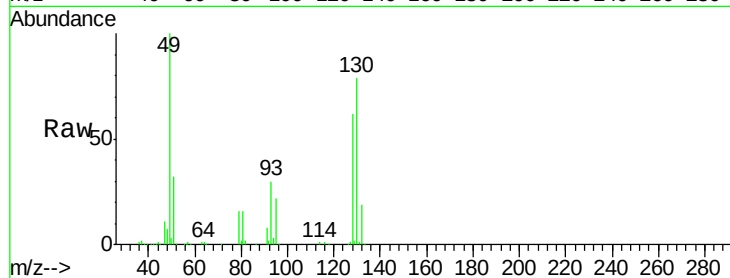
128 62.6 29.7 89.1

130 80.4 38.3 114.8

Manual Integrations
APPROVED

MMDadoda

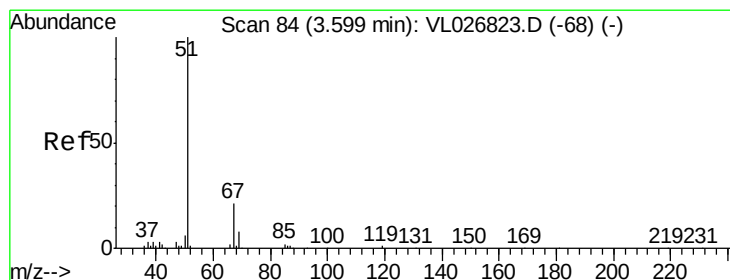
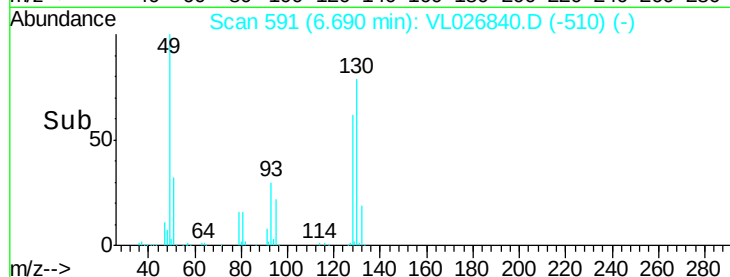
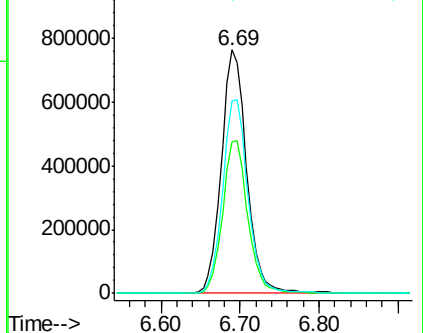
2/11/2016 1:23:54 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#3

Chlorodifluoromethane

Concen: 1.37 ppbv m

RT: 3.60 min Scan# 84

Delta R.T. -0.00 min

Lab File: VL026840.D

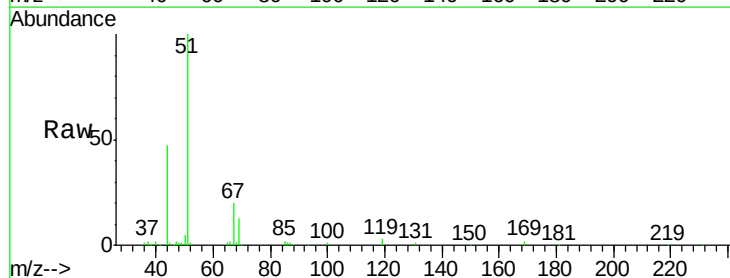
Acq: 10 Feb 2016 4:52

Tgt Ion: 51 Resp: 381443

Ion Ratio Lower Upper

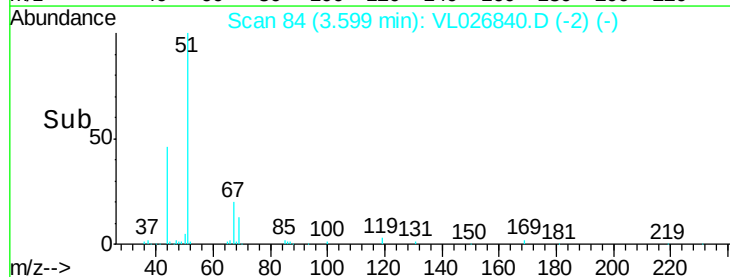
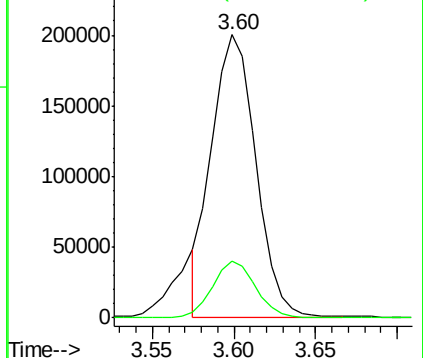
51 100

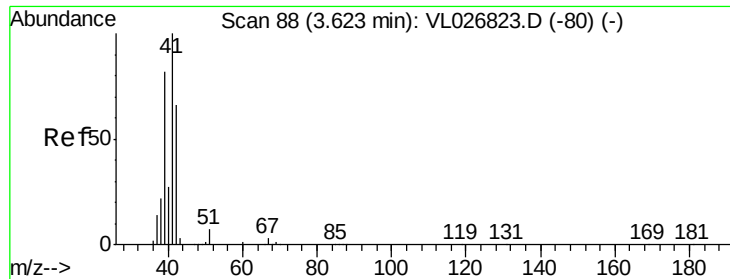
67 19.6 16.4 24.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.30 ppbv

RT: 3.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VL026840.D

Acq: 10 Feb 2016 4:52

Instrument :

MSVOA_L

ClientSampleId :

IAS-1DL

Tot Ion: 41 Resp: 22779

Ion Ratio Lower Upper

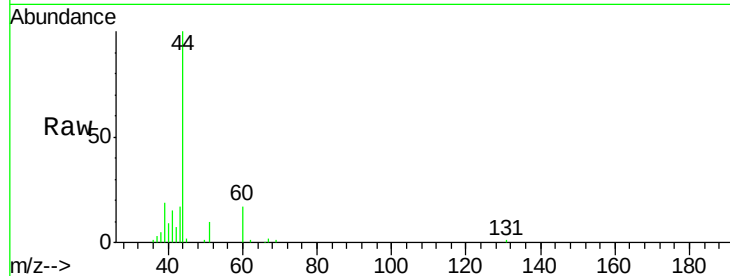
41 100

42 51.6 52.8 79.2#

Manual Integrations
APPROVED

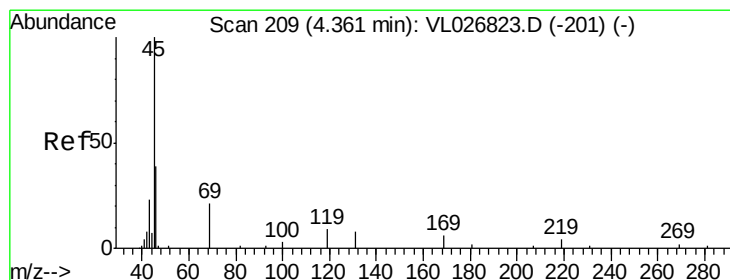
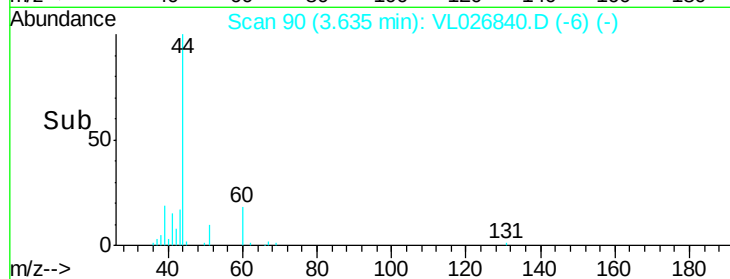
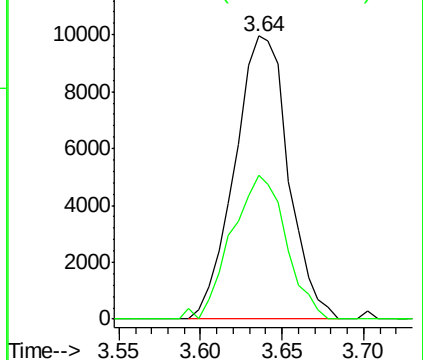
MMDadoda

2/11/2016 1:23:54 PM



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#13

Ethanol

Concen: 58.88 ppbv

RT: 4.35 min Scan# 208

Delta R.T. -0.01 min

Lab File: VL026840.D

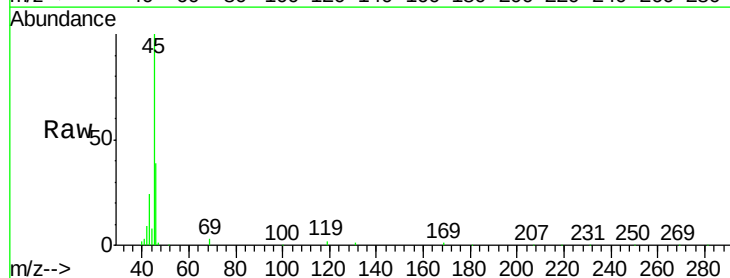
Acq: 10 Feb 2016 4:52

Tgt Ion: 45 Resp: 759379

Ion Ratio Lower Upper

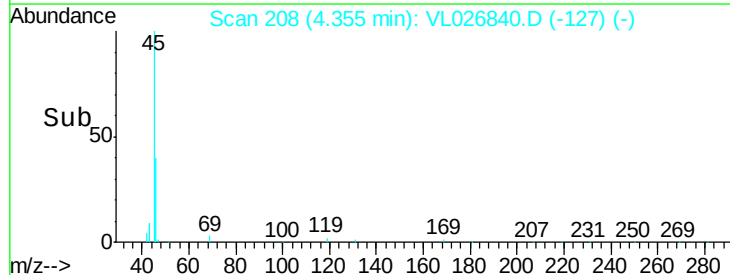
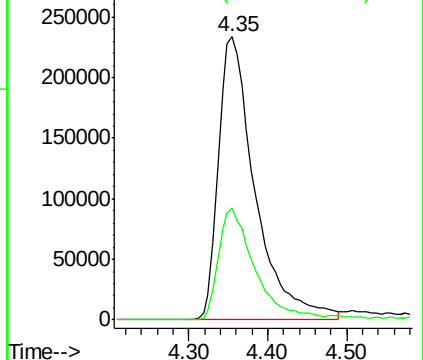
45 100

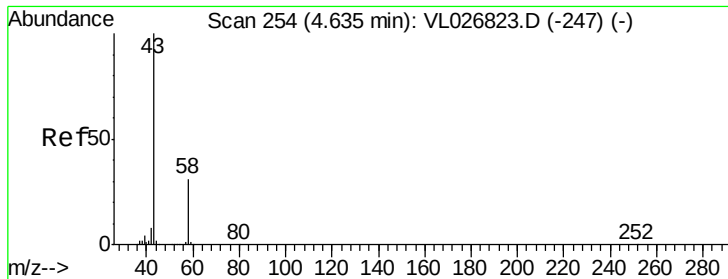
46 40.5 15.8 63.4



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 15.96 ppbv

RT: 4.63 min Scan# 253

Delta R.T. -0.01 min

Lab File: VL026840.D

Acq: 10 Feb 2016 4:52

Tot Ion: 43 Resp: 3751359

Ion Ratio Lower Upper

43 100

58 31.3 25.2 37.8

Instrument :

MSVOA_L

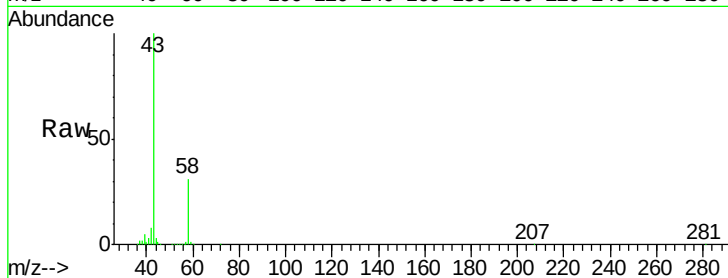
ClientSampleId :

IAS-1DL

Manual Integrations
APPROVED

MMDadoda

2/11/2016 1:23:54 PM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

2000000

1500000

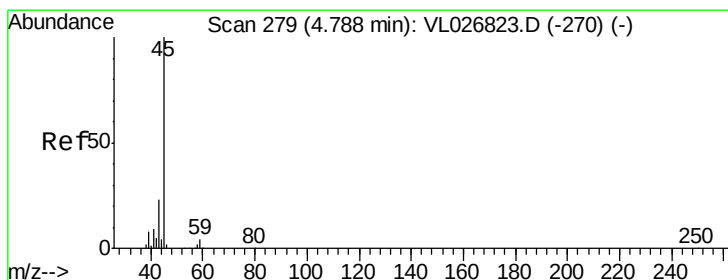
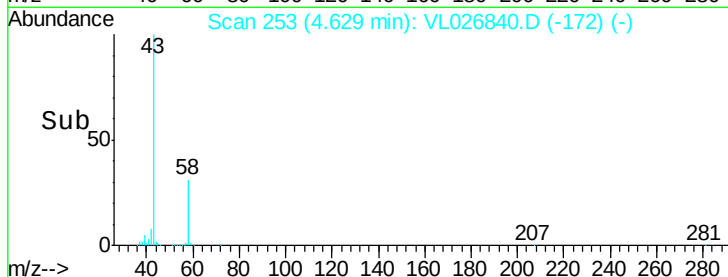
1000000

500000

0

4.60 4.70 4.80

Time-->



#19

Isopropyl Alcohol

Concen: 4.07 ppbv

RT: 4.79 min Scan# 280

Delta R.T. 0.01 min

Lab File: VL026840.D

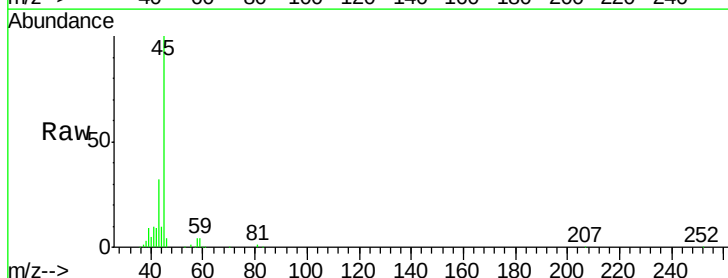
Acq: 10 Feb 2016 4:52

Tgt Ion: 45 Resp: 341470

Ion Ratio Lower Upper

45 100

58 0.0 2.2 3.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

120000

100000

80000

60000

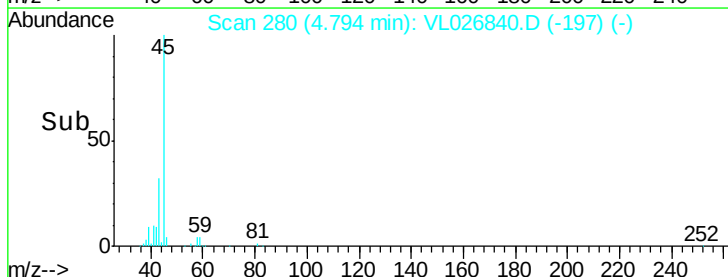
40000

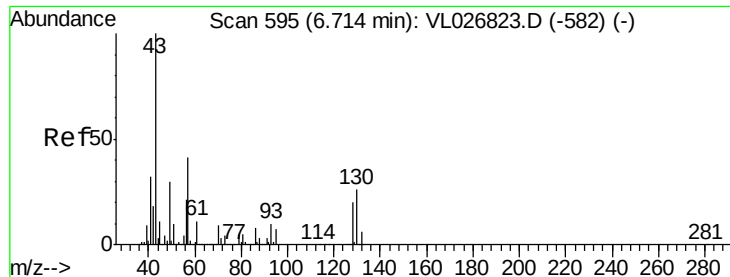
20000

0

4.70 4.80 4.90

Time-->





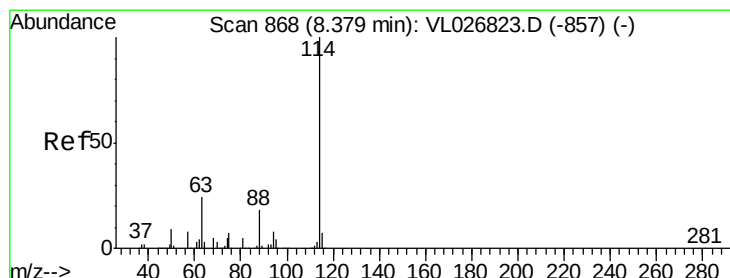
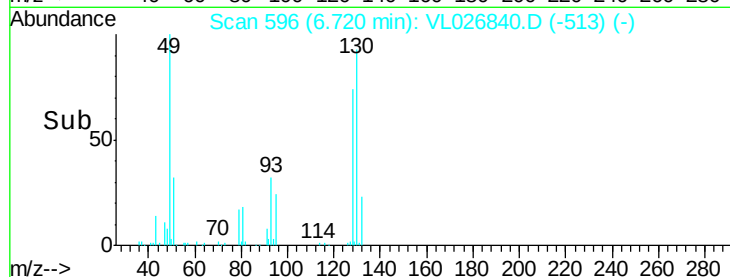
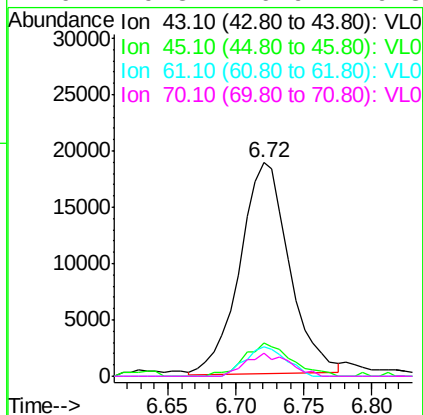
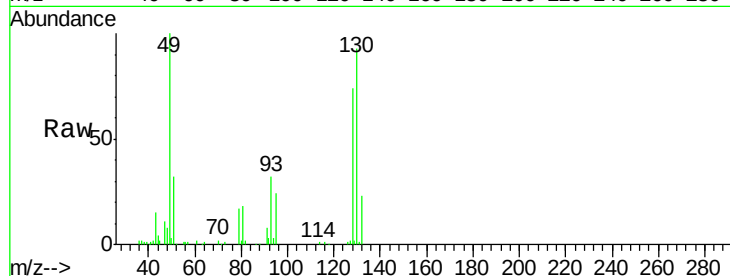
#25
Ethyl Acetate
Concen: 0.14 ppbv
RT: 6.72 min Scan# 596
Delta R.T. 0.01 min
Lab File: VL026840.D
Acq: 10 Feb 2016 4:52

Instrument :
MSVOA_L
ClientSampled :
IAS-1DL

Tot Ion	43	Resp	47886
Ion Ratio	Lower	Upper	
43	100		
45	15.0	7.8	11.8#
61	11.4	7.9	11.9
70	9.3	6.9	10.3

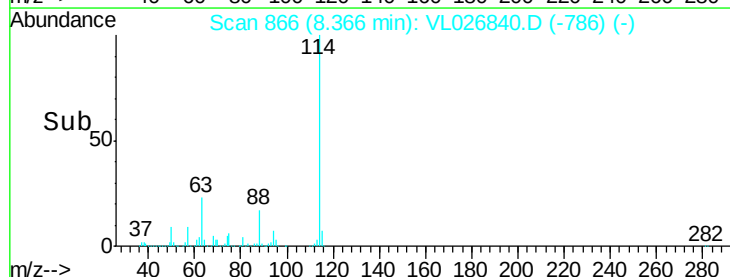
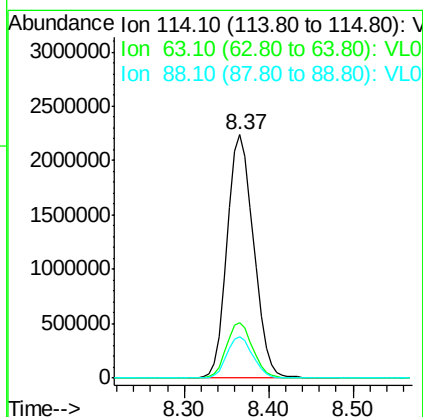
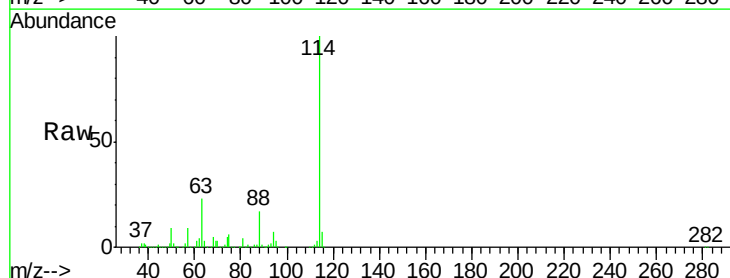
Manual Integrations
APPROVED

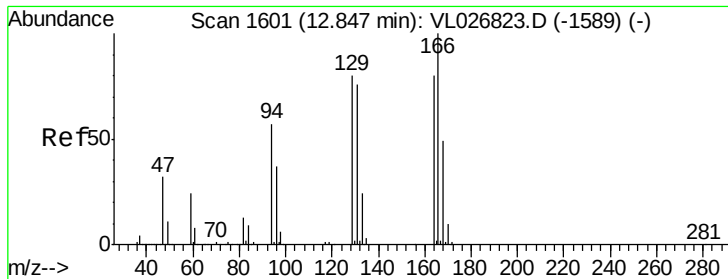
MMDadoda
2/11/2016 1:23:54 PM



#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 8.37 min Scan# 866
Delta R.T. -0.01 min
Lab File: VL026840.D
Acq: 10 Feb 2016 4:52

Tgt Ion	114	Resp	4808569
Ion Ratio	Lower	Upper	
114	100		
63	22.7	19.7	29.5
88	16.8	13.8	20.6





#52

Tetrachloroethene

Concen: 0.07 ppbv

RT: 12.83 min Scan# 1598

Delta R.T. -0.02 min

Lab File: VL026840.D

Acq: 10 Feb 2016 4:52

Instrument :

MSVOA_L

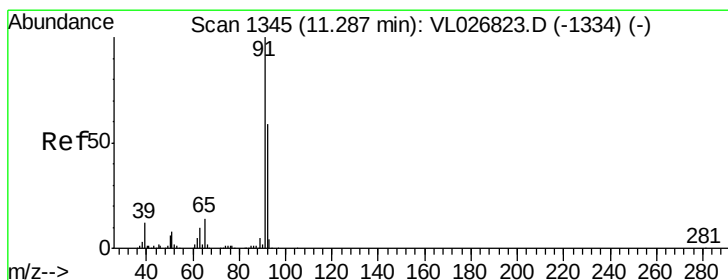
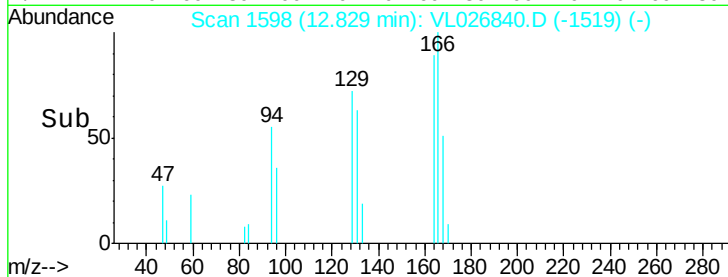
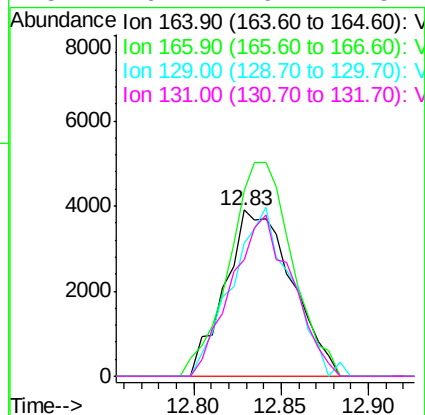
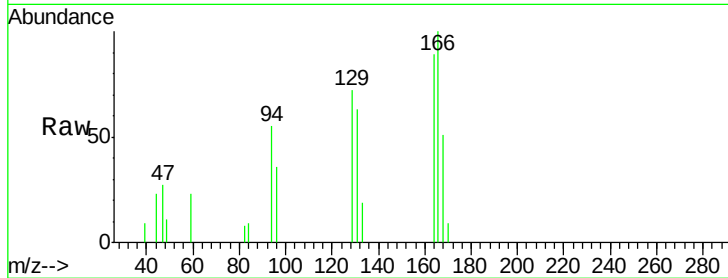
ClientSampled :

IAS-1DL

Tot Ion:	164	Resp:	10310
Ion Ratio	Lower	Upper	
164	100		
166	111.9	100.3	150.5
129	80.0	80.0	120.0
131	70.2	76.7	115.1#

Manual Integrations
APPROVED

MMDadoda
2/11/2016 1:23:54 PM



#53

Toluene

Concen: 0.15 ppbv

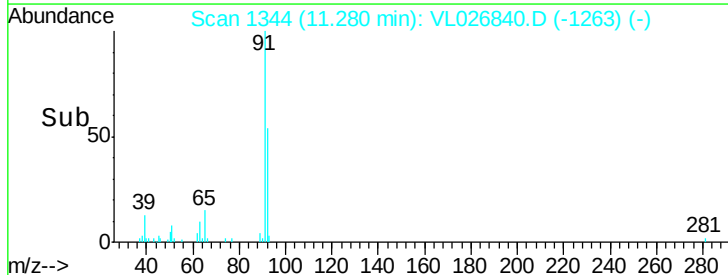
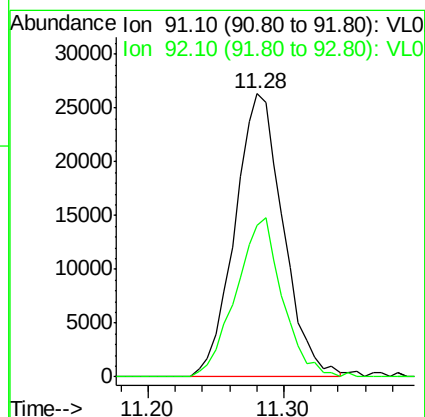
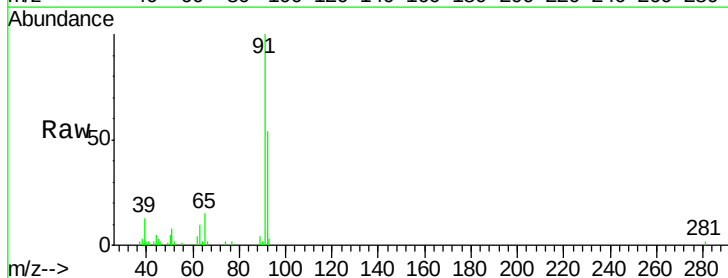
RT: 11.28 min Scan# 1344

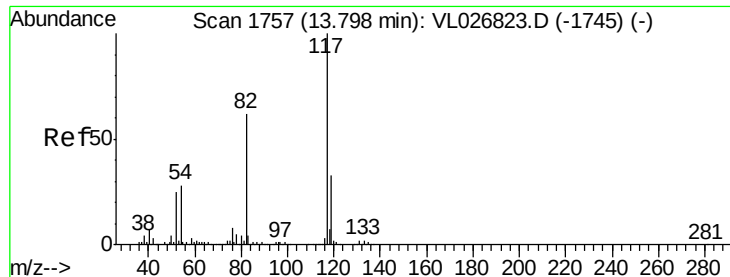
Delta R.T. -0.01 min

Lab File: VL026840.D

Acq: 10 Feb 2016 4:52

Tgt Ion:	91	Resp:	65139
Ion Ratio	Lower	Upper	
91	100		
92	54.0	47.3	70.9





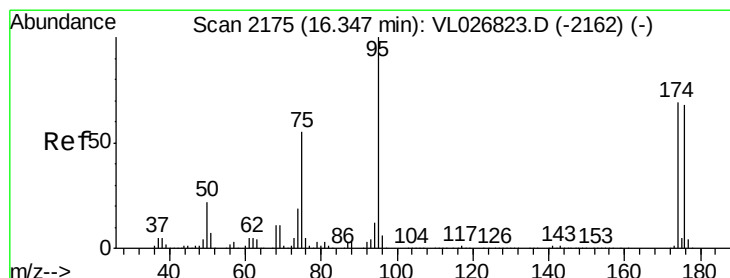
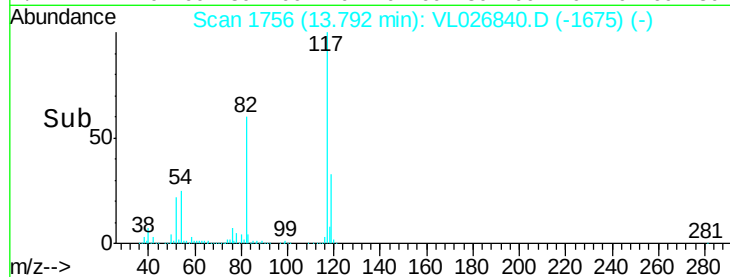
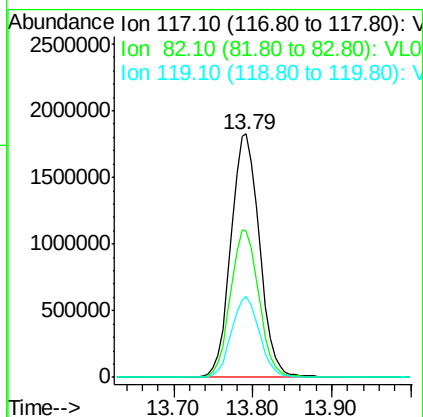
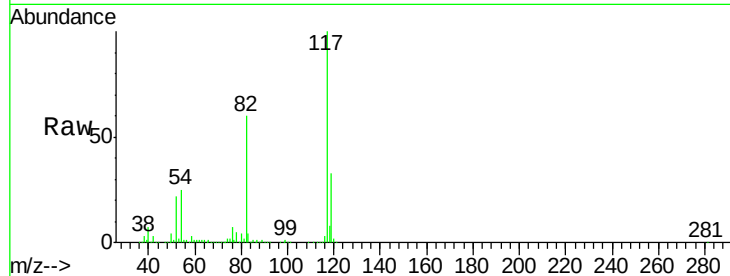
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 13.79 min Scan# 1756
Delta R.T. -0.01 min
Lab File: VL026840.D
Acq: 10 Feb 2016 4:52

Instrument :
MSVOA_L
ClientSampleId :
IAS-1DL

Tot Ion:117 Resp: 4613614
Ion Ratio Lower Upper
117 100
82 0.0 51.9 77.9#
119 32.8 48.5 72.7#

Manual Integrations
APPROVED

MMDadoda
2/11/2016 1:23:54 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 9.85 ppbv
RT: 16.33 min Scan# 2173
Delta R.T. -0.01 min
Lab File: VL026840.D
Acq: 10 Feb 2016 4:52

Tgt Ion: 95 Resp: 3262337
Ion Ratio Lower Upper
95 100
174 74.2 55.6 83.4
175 5.2 3.9 5.9

