

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032719\
 Data File : VL033475.D
 Acq On : 27 Mar 2019 19:26
 Operator : SY/AP
 Sample : K2042-12
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-6-CR-104

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:25:53 AM

Quant Time: Mar 28 09:38:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Mar 2
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	713011	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	1681290	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.23	117	1673495	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	1304533	9.94	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	29696	0.286	ppbv	94
4) Chloromethane	3.17	50	24679	0.568	ppbv	91
9) Propene	3.04	41	23355	0.677	ppbv	85
10) Heptane	8.24	43	29371	0.319	ppbv	97
11) Trichlorofluoromethane	4.00	101	32503	0.254	ppbv	92
13) Ethanol	3.68	45	12500342	1401.304	ppbv	66
15) Acetone	3.89	43	734413	8.566	ppbv	97
17) tert-Butyl alcohol	4.39	59	55862m	3.544	ppbv	
19) Isopropyl Alcohol	4.05	45	909570m	16.774	ppbv	
20) Methylene Chloride	4.40	84	112341	3.087	ppbv	93
26) Hexane	5.78	57	109442	1.547	ppbv #	48
34) 2-Butanone	5.33	43	35924	0.356	ppbv	99
36) Benzene	7.00	78	33622	0.238	ppbv #	89
50) 4-Methyl-2-Pentanone	8.87	43	48188	0.326	ppbv	96
53) Toluene	9.94	91	900408	5.493	ppbv	99
58) Ethyl Benzene	12.86	91	38308	0.171	ppbv	97
59) m/p-Xylene	13.12	91	141624	0.709	ppbv #	100
60) o-Xylene	13.84	91	32538	0.169	ppbv	95

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

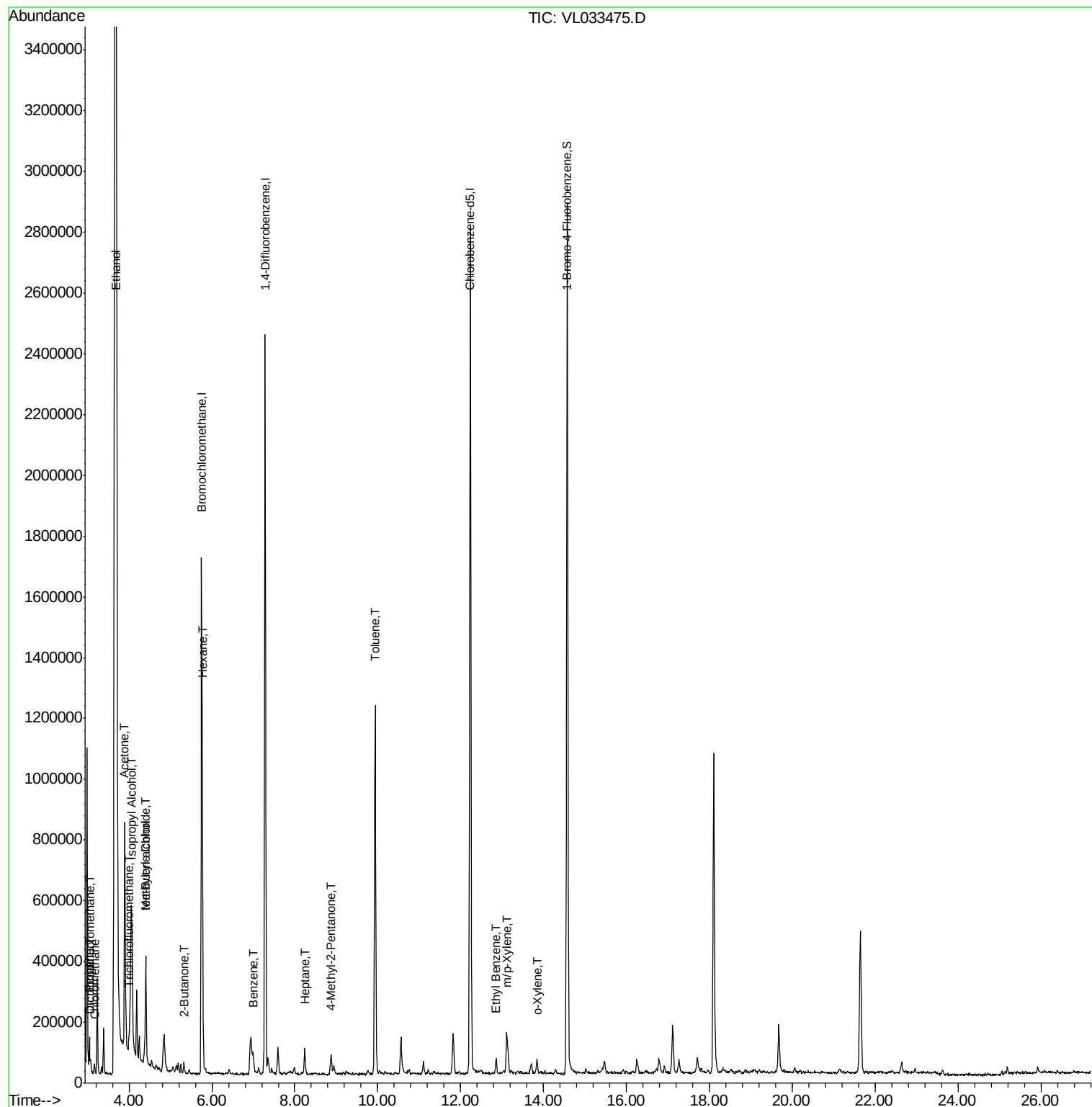
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032719\
Data File : VL033475.D
Acq On : 27 Mar 2019 19:26
Operator : SY/AP
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Misc : 400ml/MSVOA L
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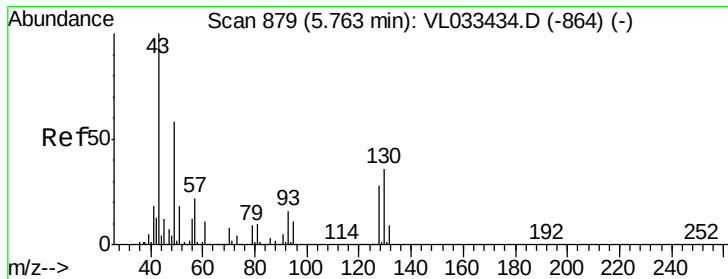
Instrument :
MSVOA_L
ClientSampleId :
IAS-6-CR-104

Manual Integrations
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Quant Time: Mar 28 09:38:04 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar
QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 876

Delta R.T. -0.01 min

Lab File: VL033475.D

Acq: 27 Mar 2019 19:26

Instrument :

MSVOA_L

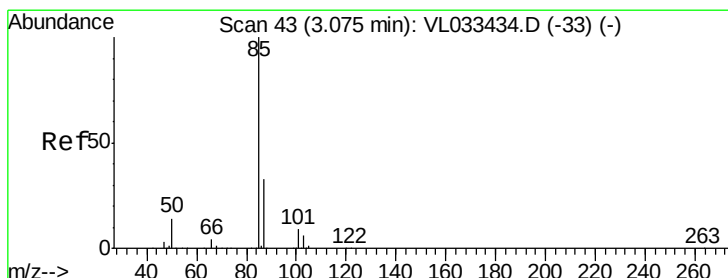
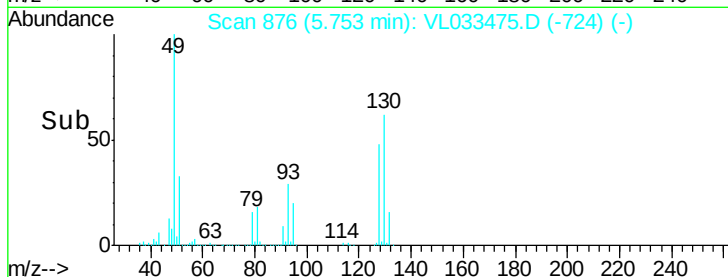
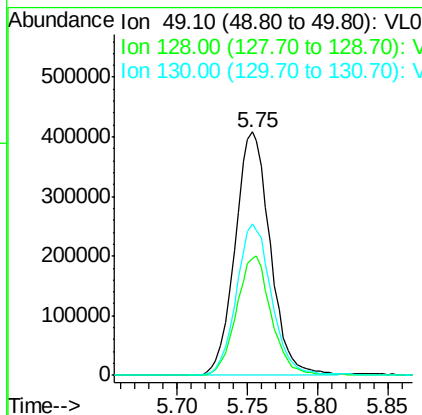
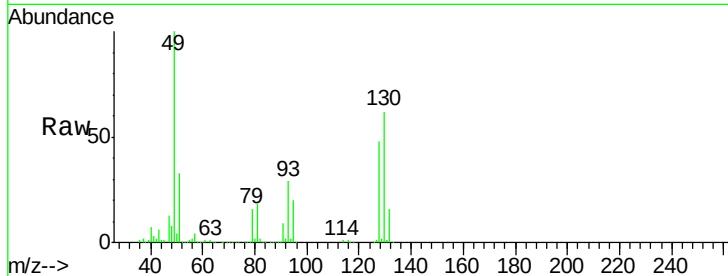
ClientSampled :

IAS-6-CR-104

Tot Ion:	49	Resp:	713011
Ion	Ratio	Lower	Upper
49	100		
128	49.0	24.0	72.0
130	62.7	31.2	93.6

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#2

Dichlorodifluoromethane

Concen: 0.286 ppbv

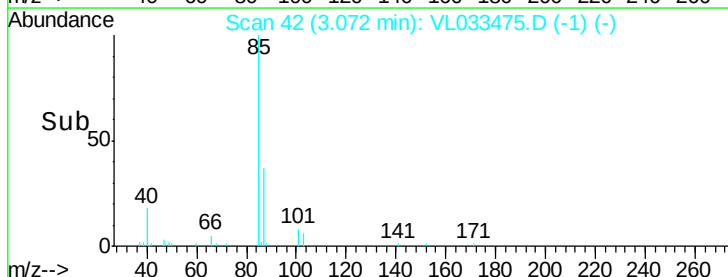
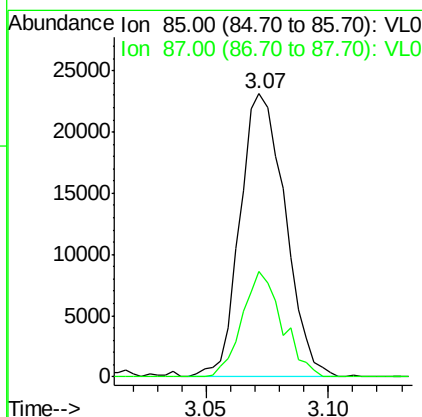
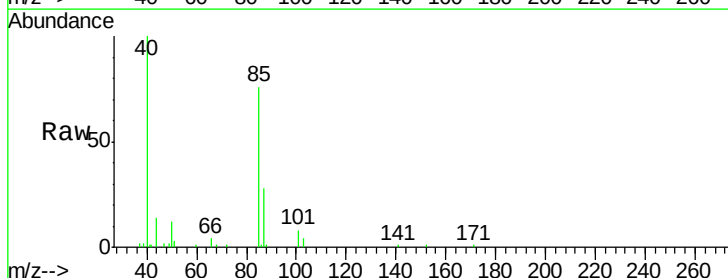
RT: 3.07 min Scan# 42

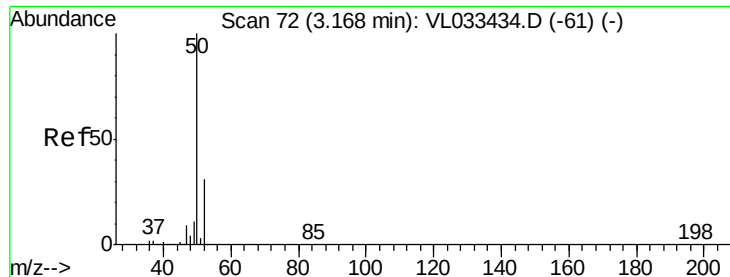
Delta R.T. -0.00 min

Lab File: VL033475.D

Acq: 27 Mar 2019 19:26

Tgt Ion:	85	Resp:	29696
Ion	Ratio	Lower	Upper
85	100		
87	37.0	26.7	40.1





#4

Chloromethane

Concen: 0.568 ppbv

RT: 3.17 min Scan# 71

Delta R.T. -0.00 min

Lab File: VL033475.D

Acq: 27 Mar 2019 19:26

Instrument :

MSVOA_L

ClientSampleId :

IAS-6-CR-104

Tot Ion: 50 Resp: 24679

Ion Ratio Lower Upper

50 100

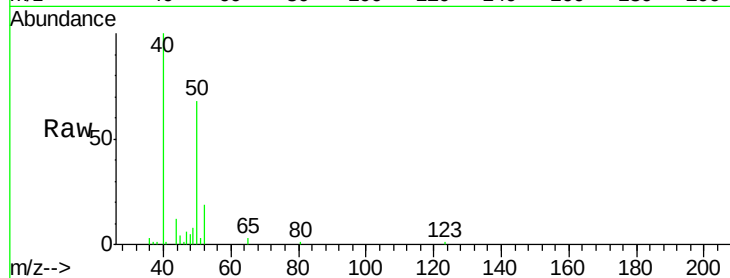
52 26.2 25.0 37.6

Manual Integrations

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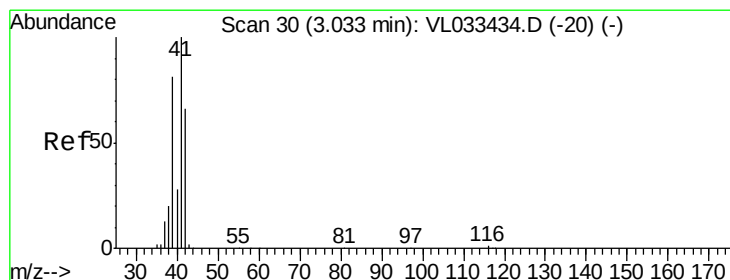
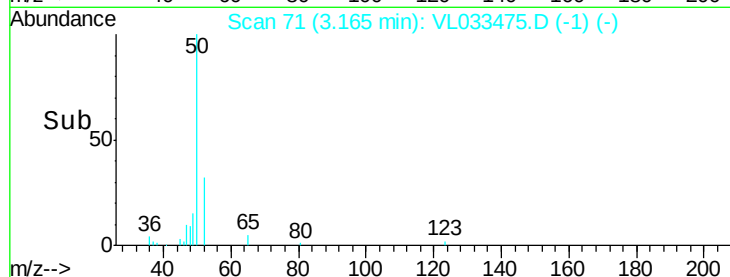
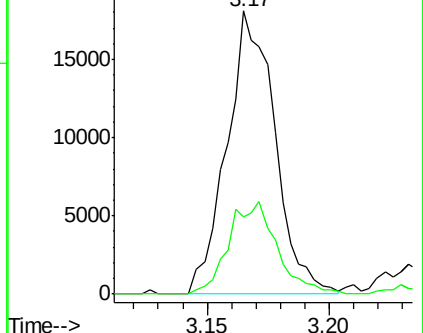
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Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.677 ppbv

RT: 3.04 min Scan# 33

Delta R.T. 0.01 min

Lab File: VL033475.D

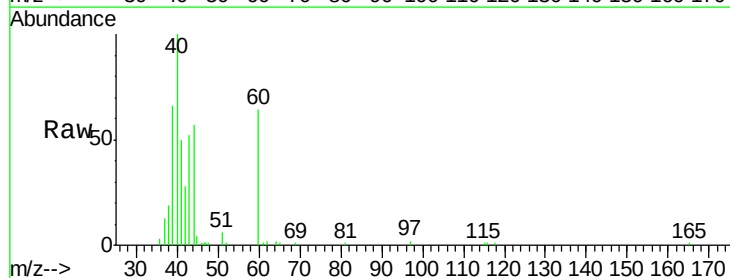
Acq: 27 Mar 2019 19:26

Tgt Ion: 41 Resp: 23355

Ion Ratio Lower Upper

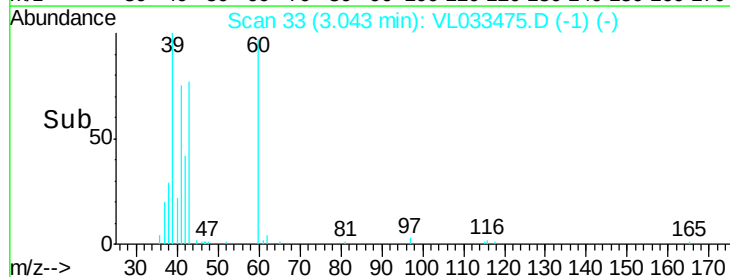
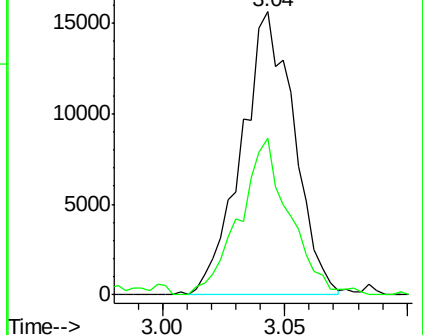
41 100

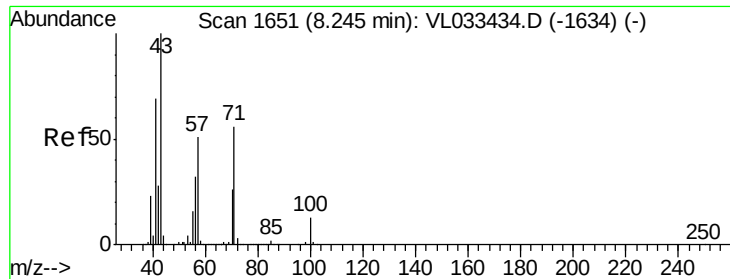
42 55.3 53.9 80.9



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 0.319 ppbv

RT: 8.24 min Scan# 1650

Delta R.T. -0.00 min

Lab File: VL033475.D

Acq: 27 Mar 2019 19:26

Instrument :

MSVOA_L

ClientSampleId :

IAS-6-CR-104

Tot Ion: 43 Resp: 29371

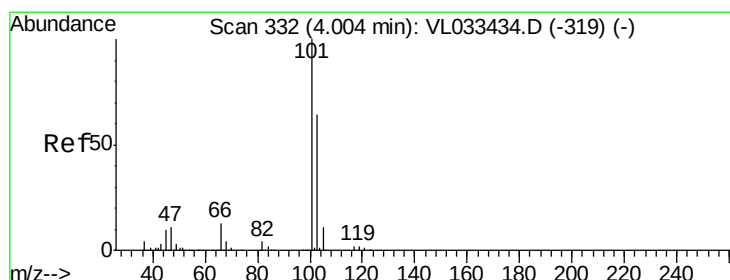
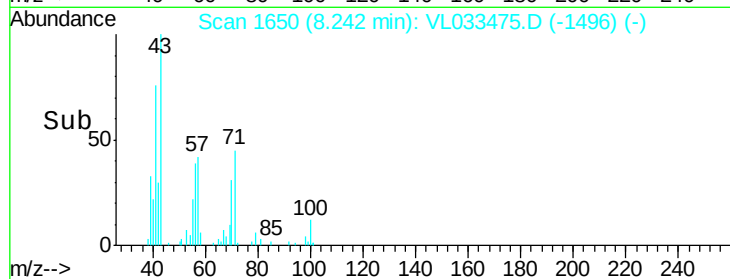
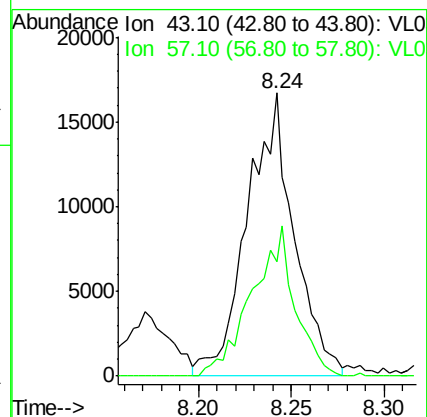
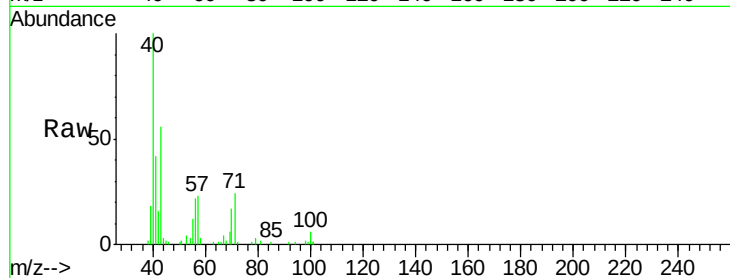
Ion Ratio Lower Upper

43 100

57 48.8 40.6 60.8

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#11

Trichlorofluoromethane

Concen: 0.254 ppbv

RT: 4.00 min Scan# 331

Delta R.T. -0.00 min

Lab File: VL033475.D

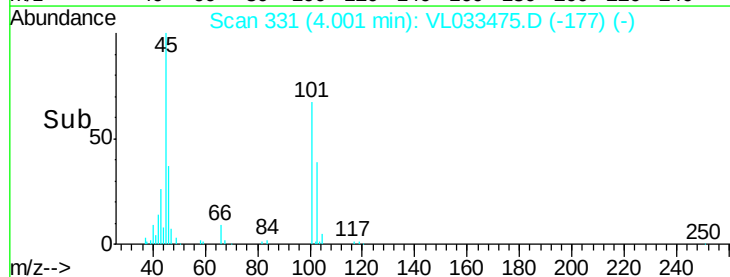
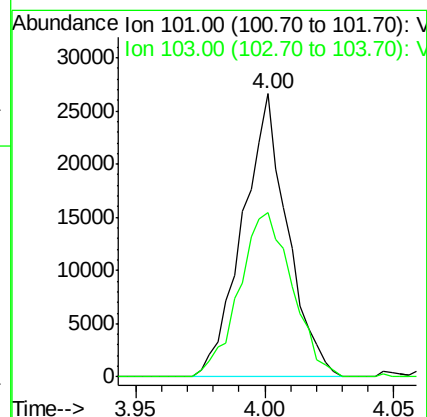
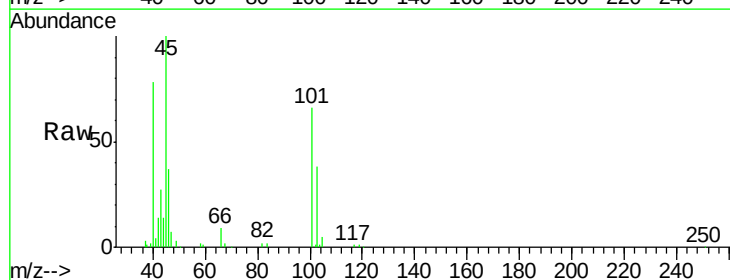
Acq: 27 Mar 2019 19:26

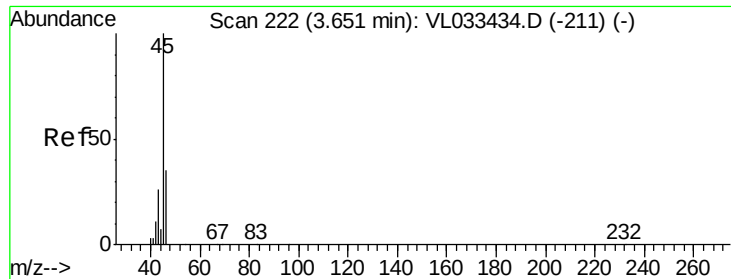
Tgt Ion: 101 Resp: 32503

Ion Ratio Lower Upper

101 100

103 57.8 51.3 76.9





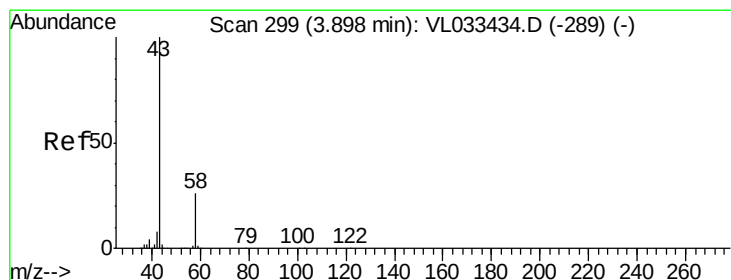
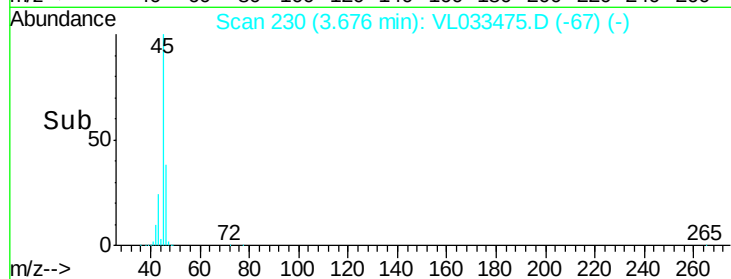
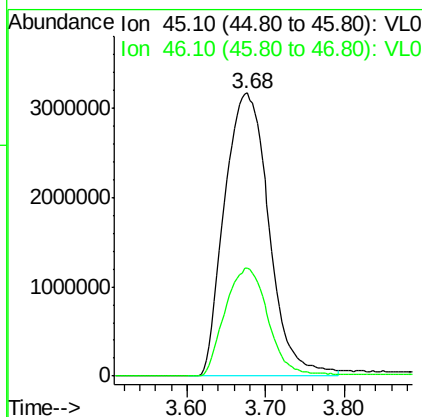
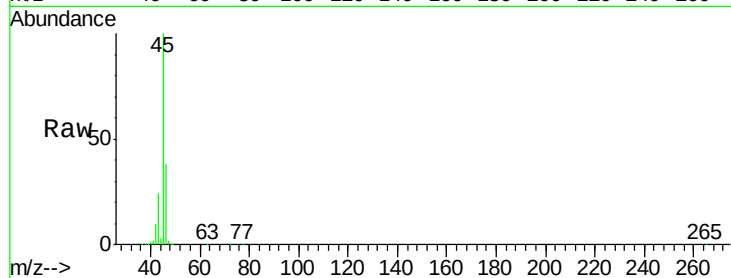
#13
Ethanol
Concen: 1401.304 ppbv
RT: 3.68 min Scan# 230
Delta R.T. 0.03 min
Lab File: VL033475.D
Acq: 27 Mar 2019 19:26

Instrument :
MSVOA_L
ClientSampleId :
IAS-6-CR-104

Tot Ion: 45 Resp: 12500342
Ion Ratio Lower Upper
45 100
46 37.4 25.4 101.8

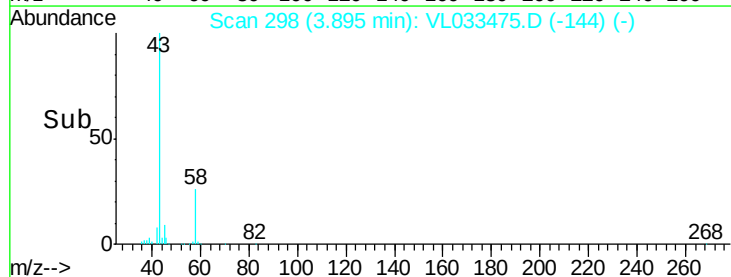
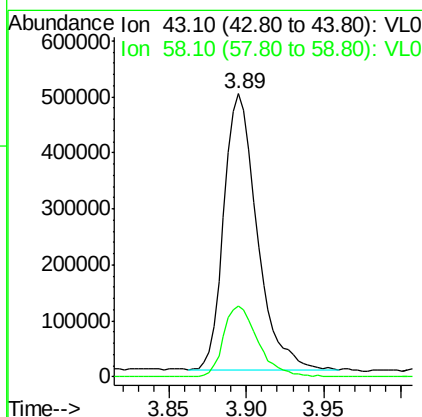
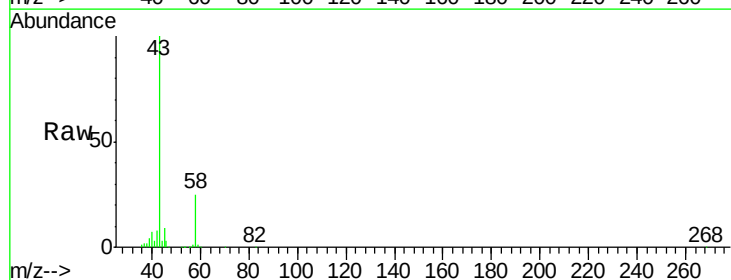
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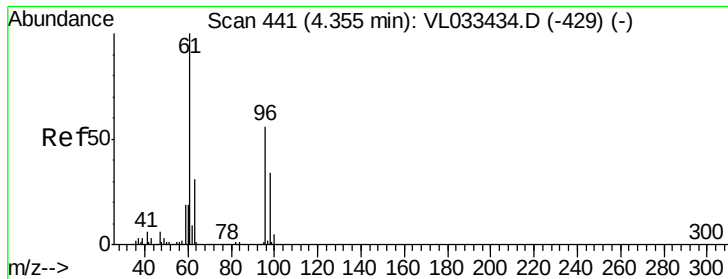
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#15
Acetone
Concen: 8.566 ppbv
RT: 3.89 min Scan# 298
Delta R.T. -0.00 min
Lab File: VL033475.D
Acq: 27 Mar 2019 19:26

Tgt Ion: 43 Resp: 734413
Ion Ratio Lower Upper
43 100
58 27.0 20.5 30.7





#17

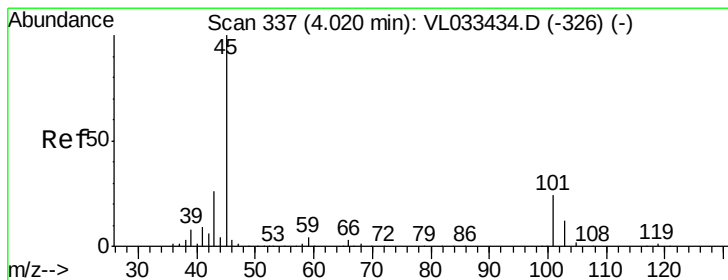
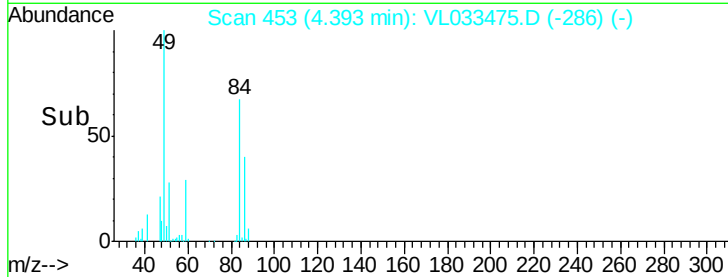
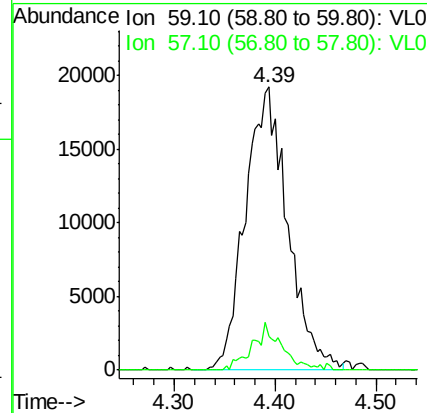
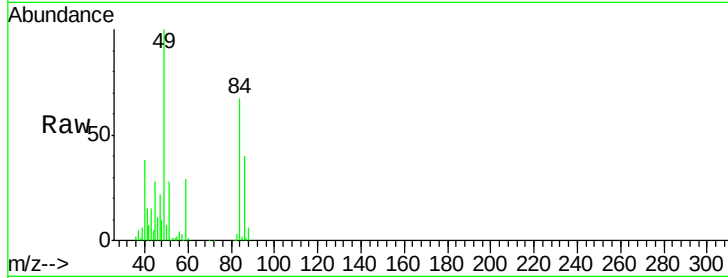
tert-Butyl alcohol
Concen: 3.544 ppbv m
RT: 4.39 min Scan# 453
Delta R.T. 0.04 min
Lab File: VL033475.D
Acq: 27 Mar 2019 19:26

Instrument :
MSVOA_L
ClientSampleId :
IAS-6-CR-104

Tot Ion: 59 Resp: 55862
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#

Manual Integrations
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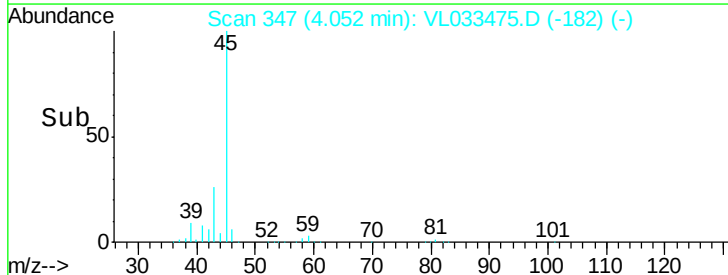
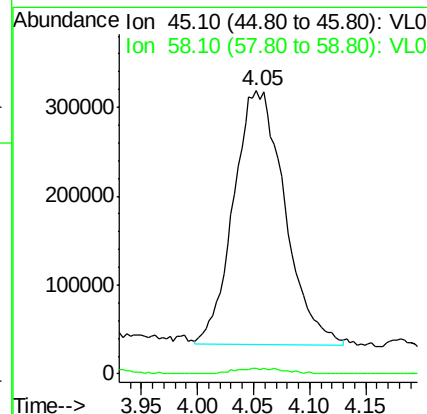
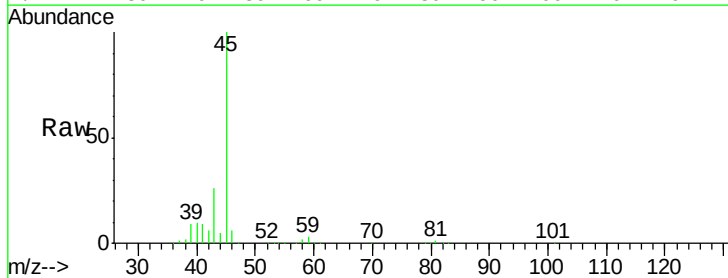
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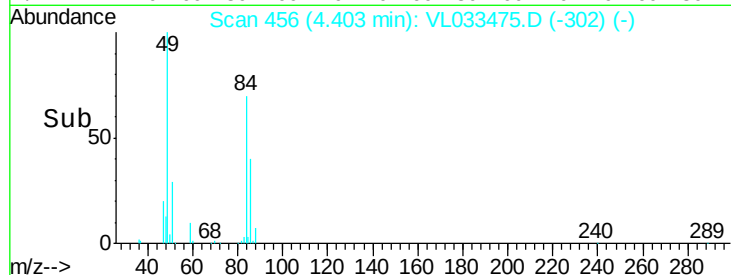
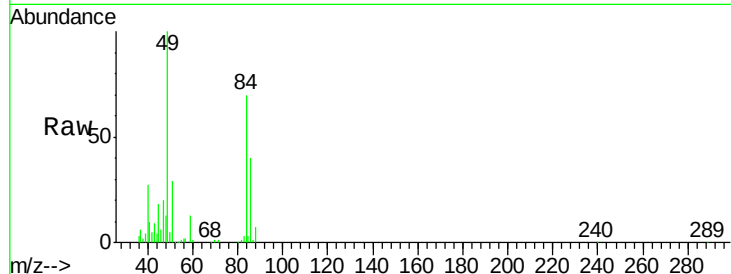
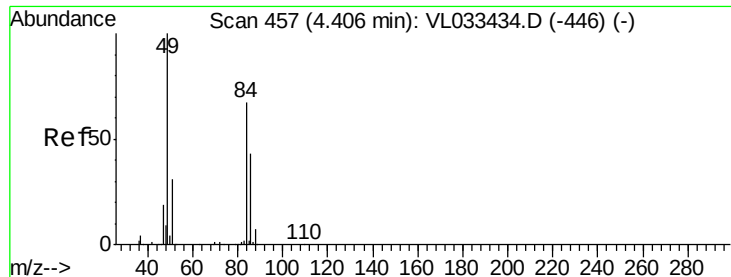


#19

Isopropyl Alcohol
Concen: 16.774 ppbv m
RT: 4.05 min Scan# 347
Delta R.T. 0.03 min
Lab File: VL033475.D
Acq: 27 Mar 2019 19:26

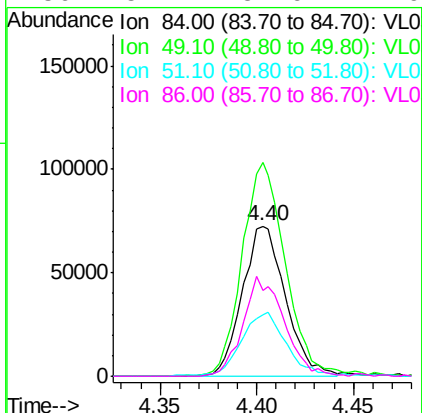
Tgt Ion: 45 Resp: 909570
Ion Ratio Lower Upper
45 100
58 2.4 1.4 2.2#





#20
Methylene Chloride
Concen: 3.087 ppbv
RT: 4.40 min Scan# 456
Delta R.T. -0.00 min
Lab File: VL033475.D
Acq: 27 Mar 2019 19:26

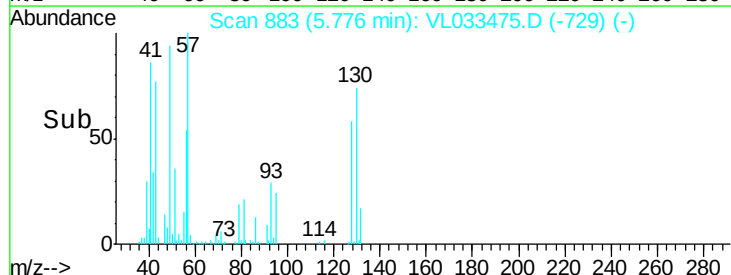
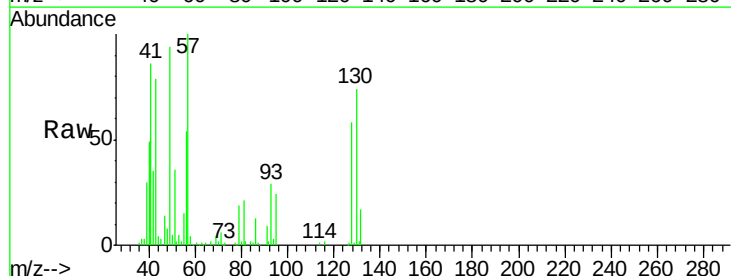
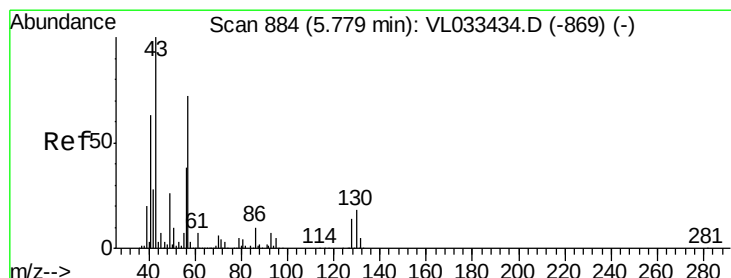
Tot Ion	Ion	Ratio	Resp	Lower	Upper
84	100				
49	142.0	120.0	180.0		
51	40.6	36.7	55.1		
86	57.4	51.9	77.9		



Instrument :
MSVOA_L
ClientSampleId :
IAS-6-CR-104

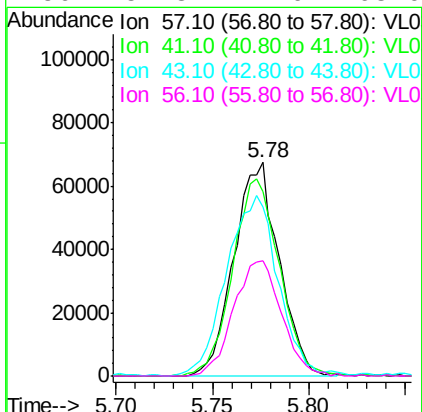
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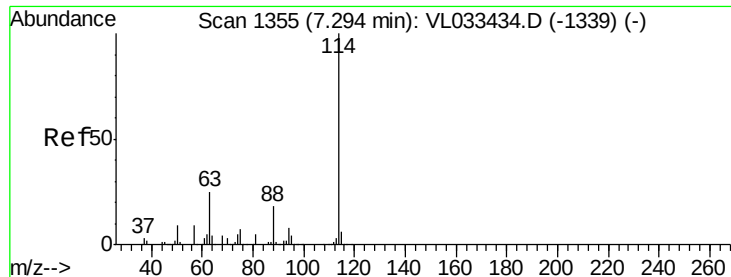
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#26
Hexane
Concen: 1.547 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.00 min
Lab File: VL033475.D
Acq: 27 Mar 2019 19:26

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	96.6	70.7	106.1		
43	97.2	182.6	274.0#		
56	57.3	42.0	63.0		





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.28 min Scan# 1351

Delta R.T. -0.01 min

Lab File: VL033475.D

Acq: 27 Mar 2019 19:26

Instrument :

MSVOA_L

ClientSampleId :

IAS-6-CR-104

Tot Ion:114 Resp: 1681290

Ion Ratio Lower Upper

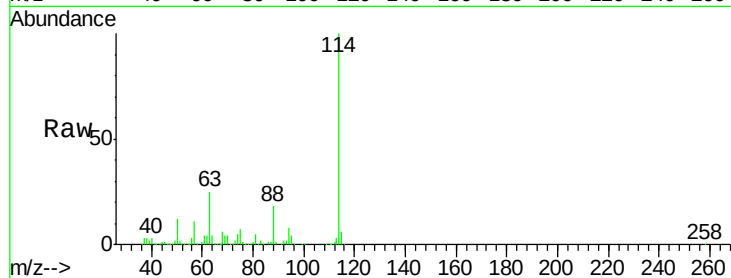
114 100

63 26.6 21.5 32.3

88 18.1 14.5 21.7

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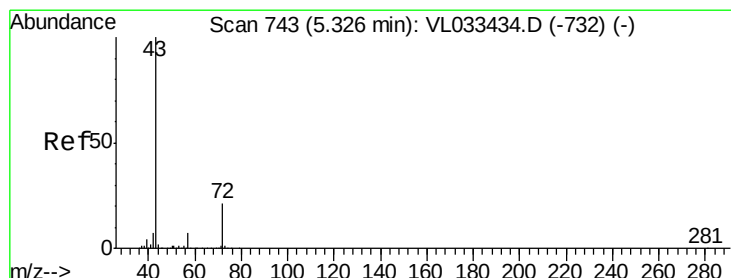
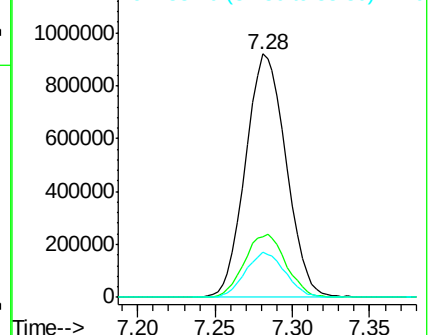
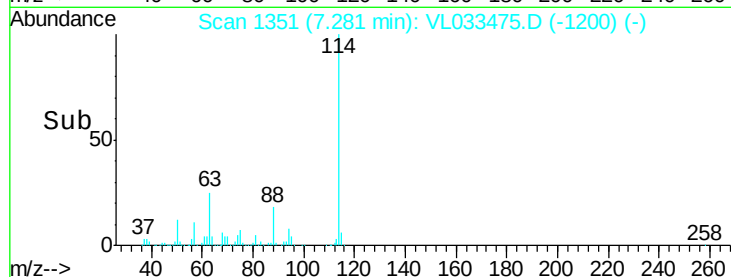
MMDadoda
4/1/2019 1:25:53 AM



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.356 ppbv

RT: 5.33 min Scan# 743

Delta R.T. -0.00 min

Lab File: VL033475.D

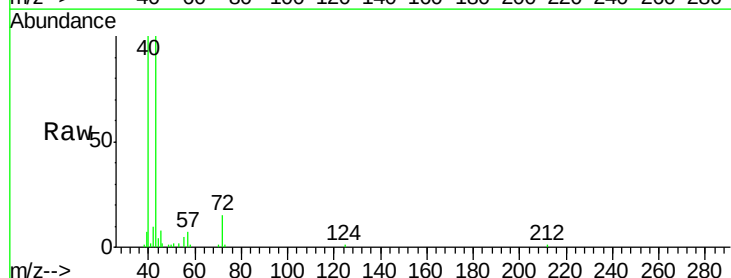
Acq: 27 Mar 2019 19:26

Tgt Ion: 43 Resp: 35924

Ion Ratio Lower Upper

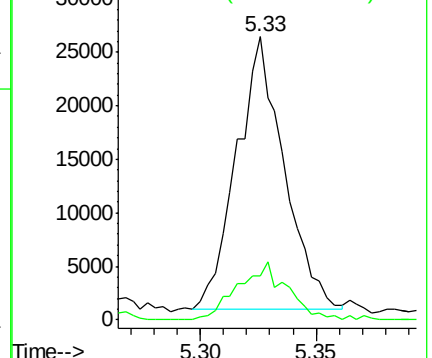
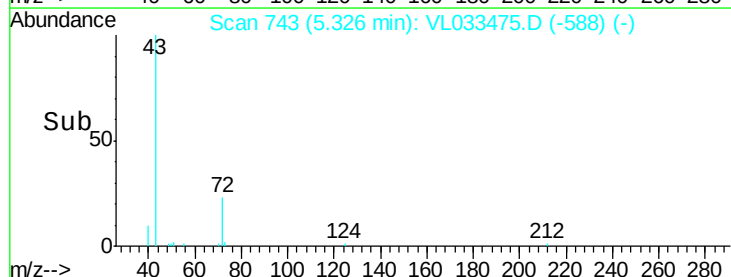
43 100

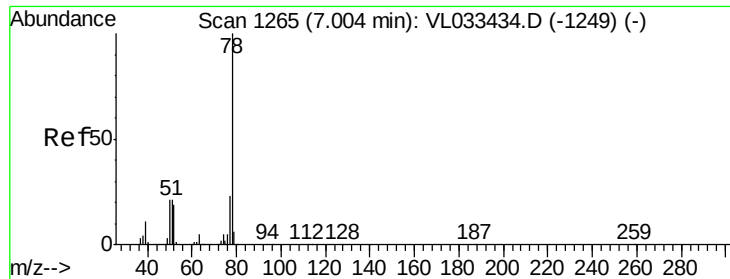
72 22.4 17.4 26.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





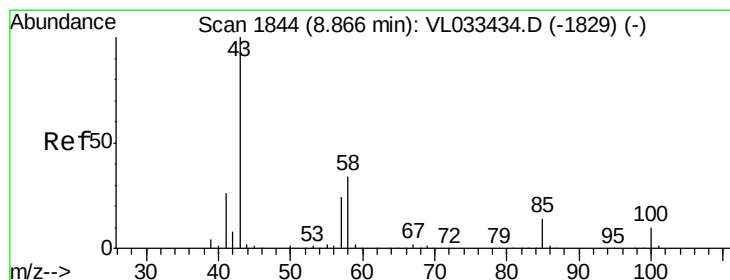
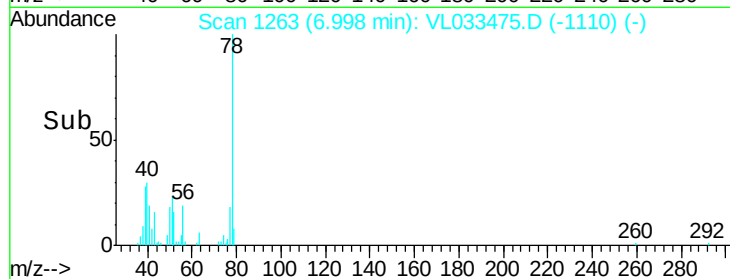
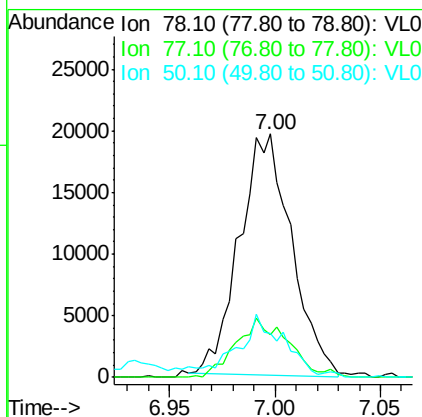
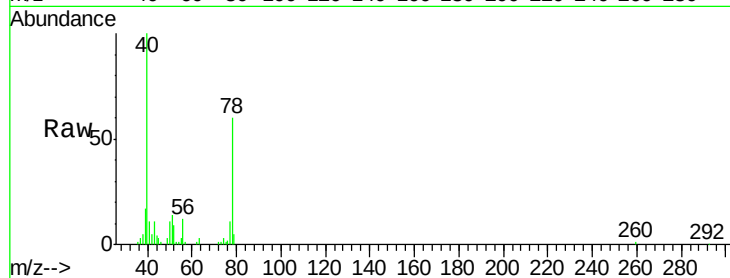
#36
Benzene
Concen: 0.238 ppbv
RT: 7.00 min Scan# 1263
Delta R.T. -0.01 min
Lab File: VL033475.D
Acq: 27 Mar 2019 19:26

Instrument :
MSVOA_L
ClientSampleId :
IAS-6-CR-104

Tot Ion	Ratio	Lower	Upper
78	100		
77	16.9	18.1	27.1#
50	16.5	16.7	25.1#

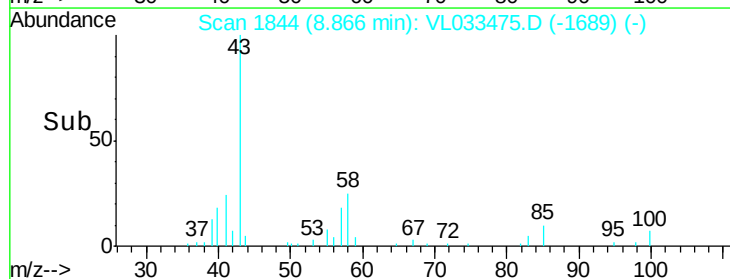
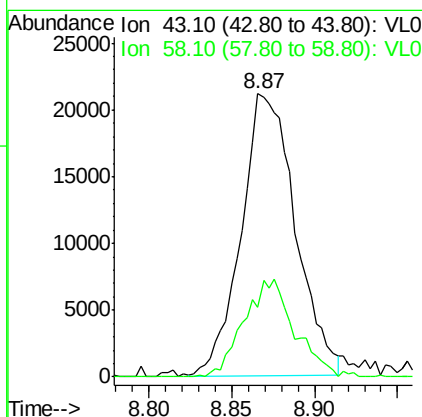
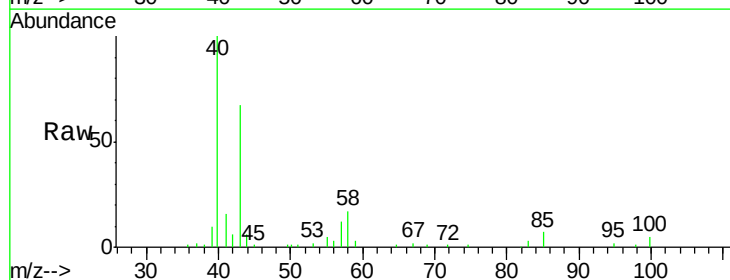
Manual Integrations
APPROVED

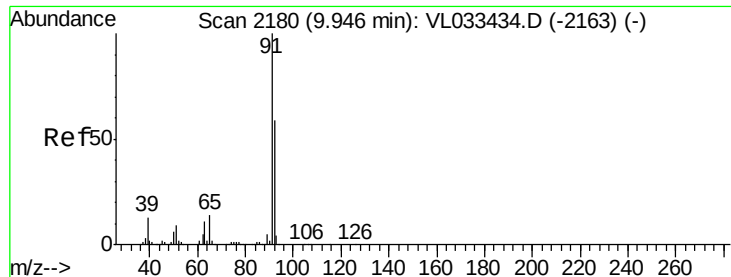
MMDadoda
4/1/2019 1:25:53 AM



#50
4-Methyl-2-Pentanone
Concen: 0.326 ppbv
RT: 8.87 min Scan# 1844
Delta R.T. -0.00 min
Lab File: VL033475.D
Acq: 27 Mar 2019 19:26

Tgt Ion	Ratio	Lower	Upper
43	100		
58	32.5	28.0	42.0





#53

Toluene

Concen: 5.493 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033475.D

Acq: 27 Mar 2019 19:26

Instrument :

MSVOA_L

ClientSampleId :

IAS-6-CR-104

Tot Ion: 91 Resp: 900408

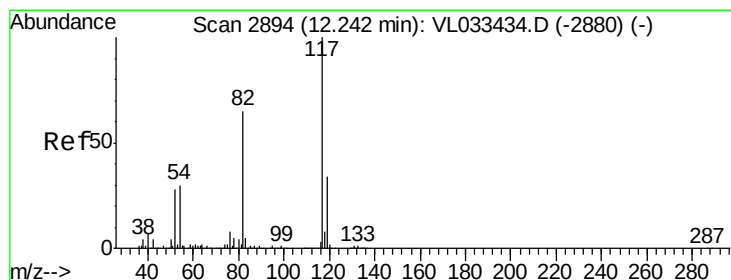
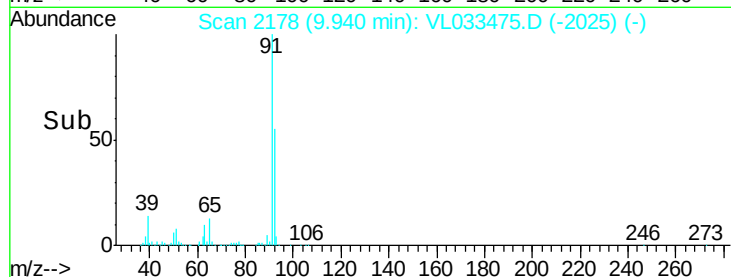
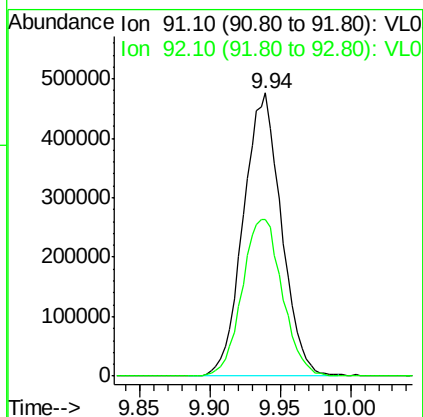
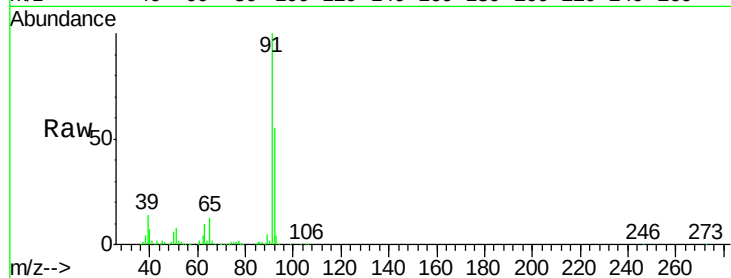
Ion Ratio Lower Upper

91 100

92 58.6 47.4 71.0

Manual Integrations
APPROVED

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2891

Delta R.T. -0.01 min

Lab File: VL033475.D

Acq: 27 Mar 2019 19:26

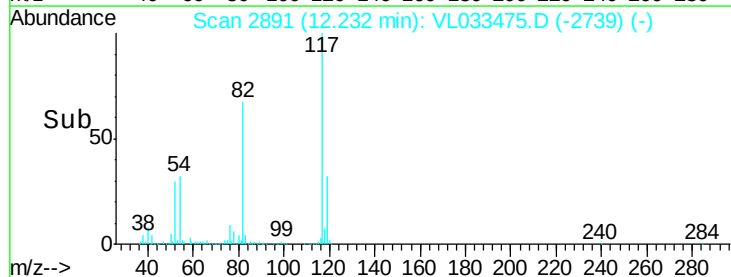
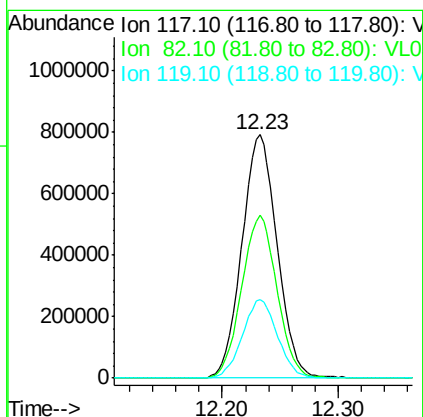
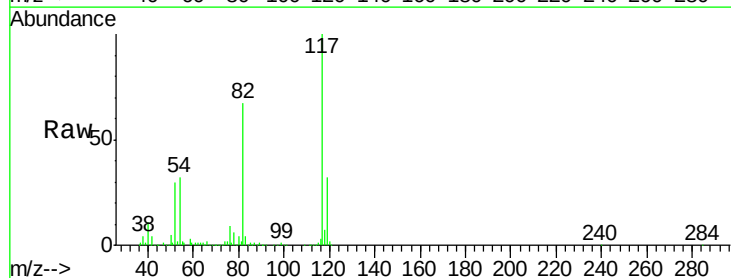
Tgt Ion: 117 Resp: 1673495

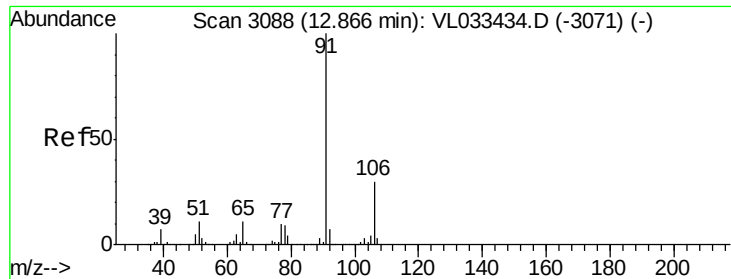
Ion Ratio Lower Upper

117 100

82 67.2 51.5 77.3

119 32.3 25.5 38.3





#58

Ethyl Benzene

Concen: 0.171 ppbv

RT: 12.86 min Scan# 3086

Delta R.T. -0.01 min

Lab File: VL033475.D

Acq: 27 Mar 2019 19:26

Instrument :

MSVOA_L

ClientSampleId :

IAS-6-CR-104

Tot Ion: 91 Resp: 38308

Ion Ratio Lower Upper

91 100

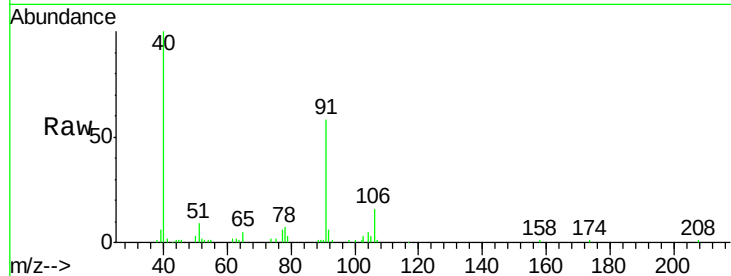
106 28.0 23.8 35.6

Manual Integrations

APPROVED

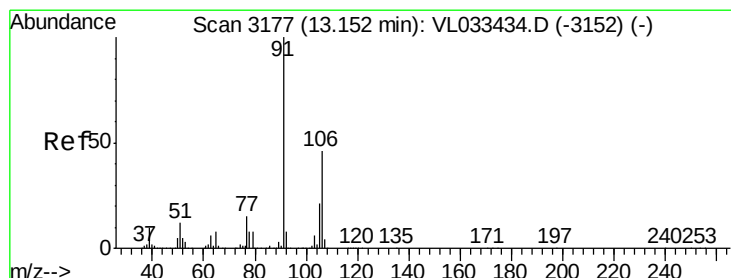
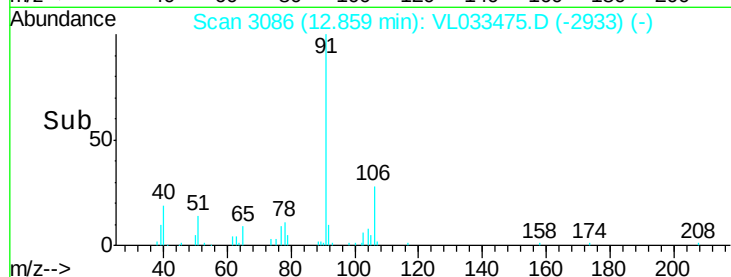
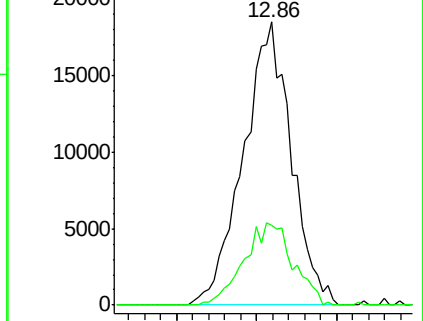
MMDadoda

4/1/2019 1:25:53 AM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 0.709 ppbv

RT: 13.12 min Scan# 3166

Delta R.T. -0.04 min

Lab File: VL033475.D

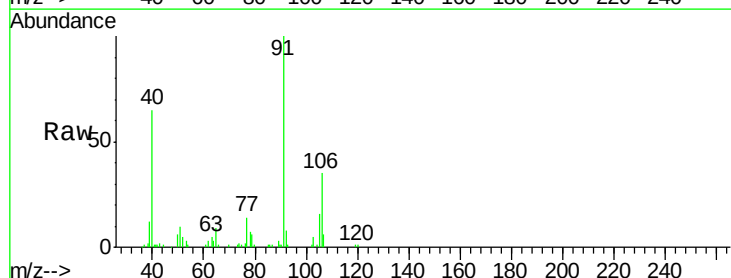
Acq: 27 Mar 2019 19:26

Tgt Ion: 91 Resp: 141624

Ion Ratio Lower Upper

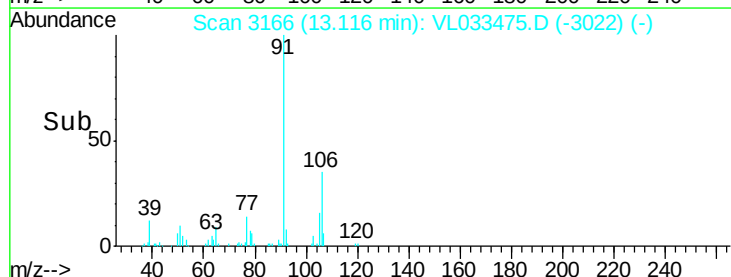
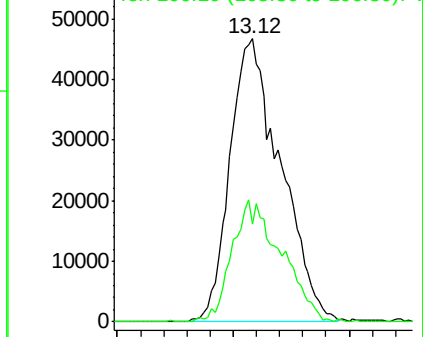
91 100

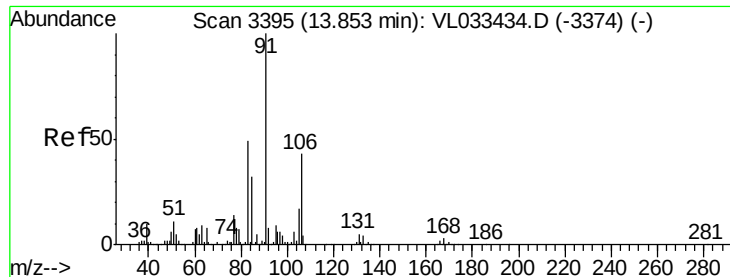
106 41.8 0.0 0.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





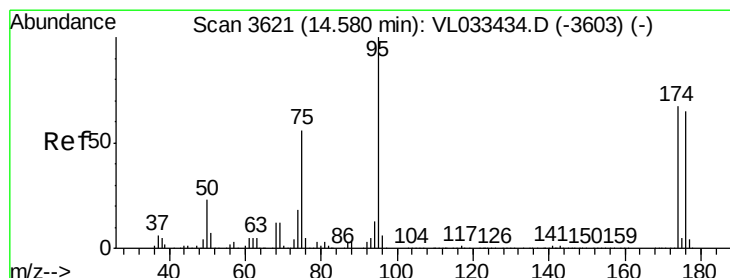
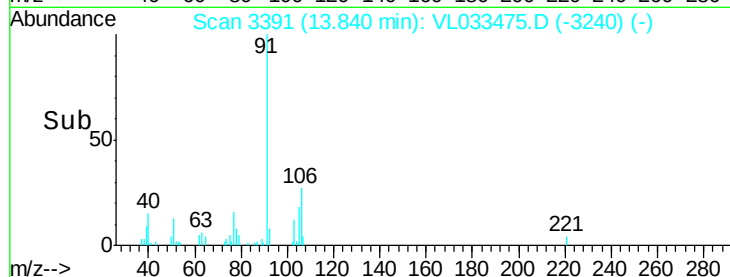
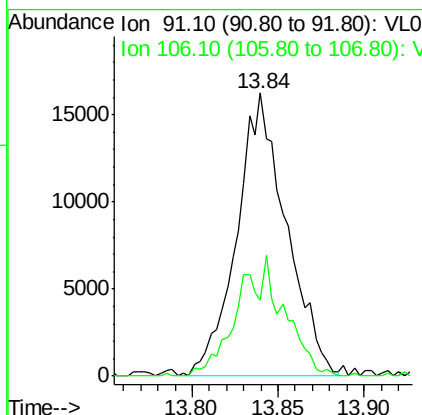
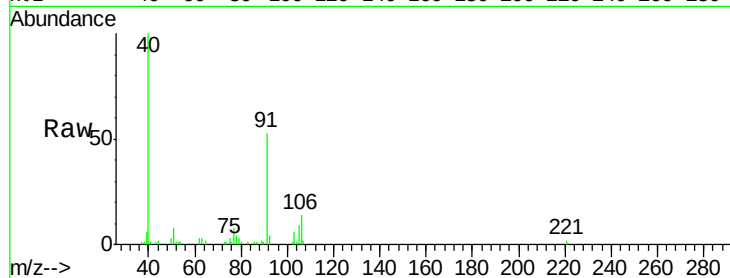
#60
o-Xylene
Concen: 0.169 ppbv
RT: 13.84 min Scan# 3391
Delta R.T. -0.01 min
Lab File: VL033475.D
Acq: 27 Mar 2019 19:26

Instrument :
MSVOA_L
ClientSampleId :
IAS-6-CR-104

Tot Ion: 91 Resp: 32538
Ion Ratio Lower Upper
91 100
106 40.0 21.4 64.3

Manual Integrations
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4/1/2019 1:25:53 AM



#68
1-Bromo-4-Fluorobenzene
Concen: 9.943 ppbv
RT: 14.57 min Scan# 3618
Delta R.T. -0.01 min
Lab File: VL033475.D
Acq: 27 Mar 2019 19:26

Tgt Ion: 95 Resp: 1304533
Ion Ratio Lower Upper
95 100
174 65.5 52.9 79.3
175 4.9 3.8 5.6

