

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032719\
 Data File : VL033481.D
 Acq On : 27 Mar 2019 23:29
 Operator : SY/AP
 Sample : K2042-15
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-5-TEACHERS-ROOM

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:25:59 AM

Quant Time: Mar 31 11:23:30 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	762734	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	1774100	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.23	117	1727137	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1384947	10.23	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	30882	0.278	ppbv	90
4) Chloromethane	3.17	50	26118	0.562	ppbv	96
9) Propene	3.04	41	28381m	0.770	ppbv	
10) Heptane	8.25	43	26846	0.272	ppbv	96
11) Trichlorofluoromethane	4.00	101	33416	0.244	ppbv	95
13) Ethanol	3.66	45	6252532	655.223	ppbv	65
15) Acetone	3.89	43	674284	7.352	ppbv	100
17) tert-Butyl alcohol	4.37	59	14746m	0.874	ppbv	
19) Isopropyl Alcohol	4.04	45	1801323	31.053	ppbv	99
20) Methylene Chloride	4.41	84	46968	1.206	ppbv	88
26) Hexane	5.78	57	68329	0.903	ppbv #	58
34) 2-Butanone	5.33	43	27896	0.262	ppbv	98
35) Carbon Tetrachloride	7.13	117	7464m	0.059	ppbv	
36) Benzene	7.00	78	40953	0.275	ppbv	93
53) Toluene	9.94	91	392366	2.268	ppbv	99
59) m/p-Xylene	13.12	91	80810m	0.392	ppbv	
60) o-Xylene	13.84	91	23779m	0.119	ppbv	

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

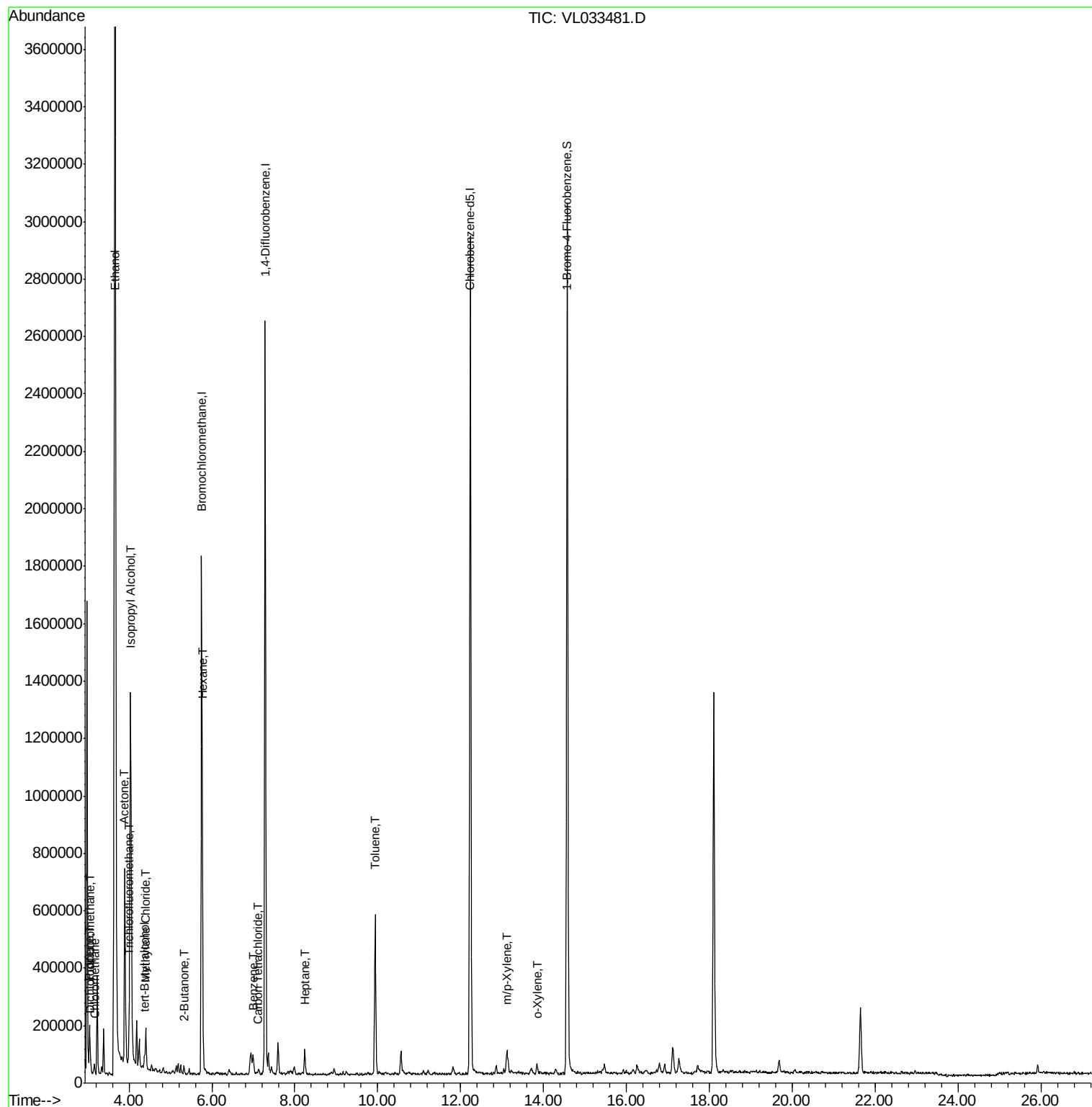
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032719\
Data File : VL033481.D
Acq On : 27 Mar 2019 23:29
Operator : SY/AP
Sample : K2042-15
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

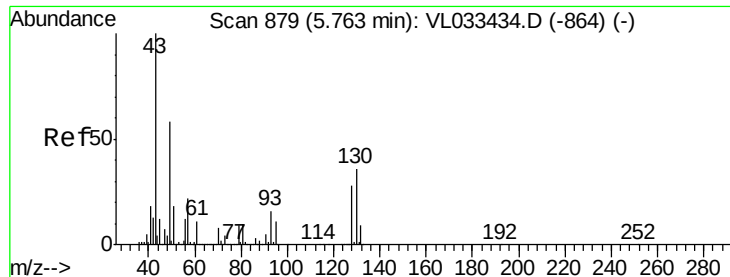
Instrument :
MSVOA_L
ClientSampleId :
IAS-5-TEACHERS-ROOM

Manual Integrations
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4/1/2019 1:25:59 AM

Quant Time: Mar 31 11:23:30 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue 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: VL033481.D

Acq: 27 Mar 2019 23:29

Instrument :

MSVOA_L

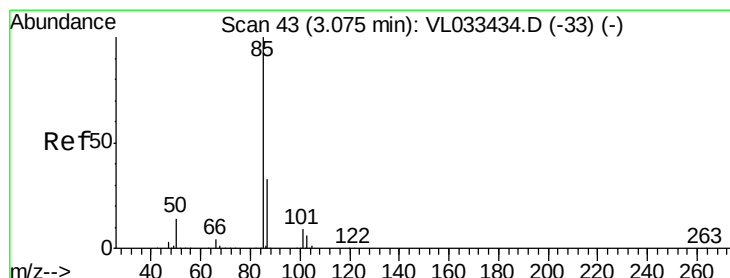
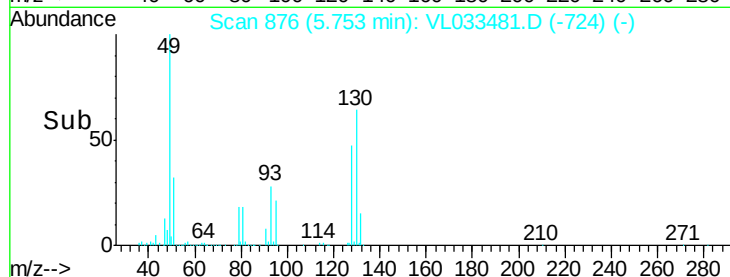
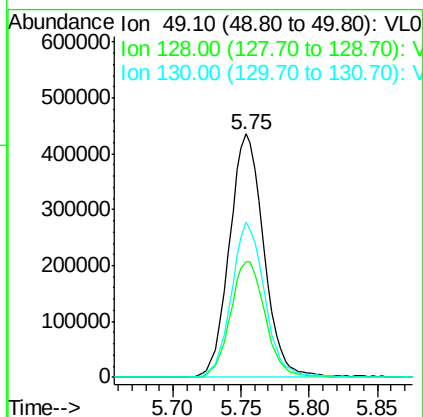
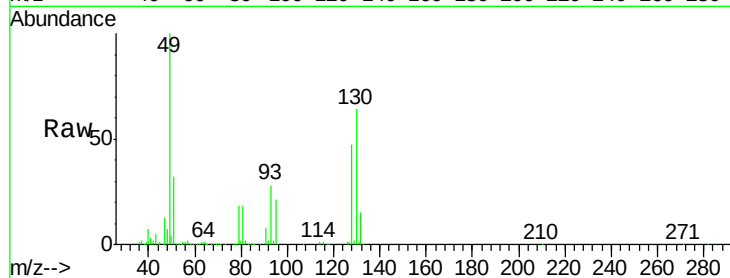
ClientSampleId :

IAS-5-TEACHERS-ROOM

Tot Ion:	49	Resp:	762734
Ion	Ratio	Lower	Upper
49	100		
128	48.1	24.0	72.0
130	61.8	31.2	93.6

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#2

Dichlorodifluoromethane

Concen: 0.278 ppbv

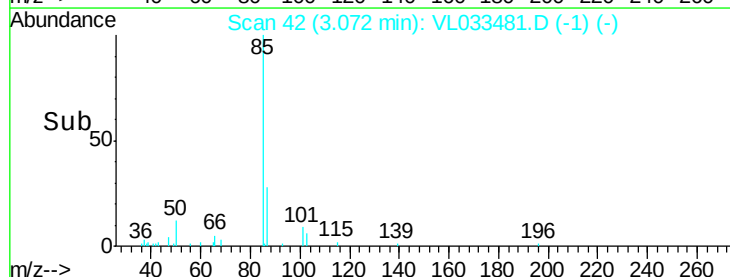
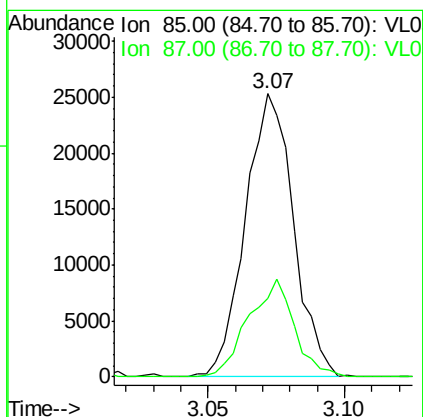
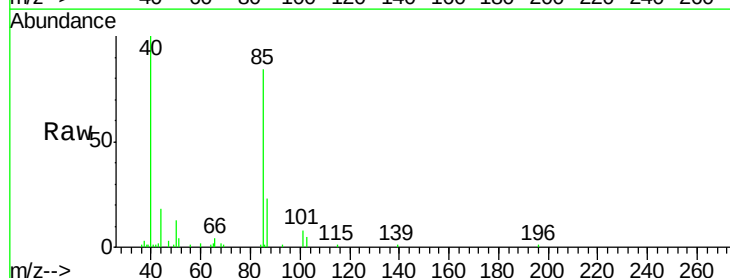
RT: 3.07 min Scan# 42

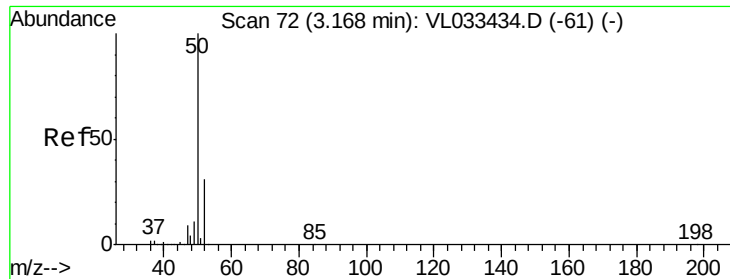
Delta R.T. -0.00 min

Lab File: VL033481.D

Acq: 27 Mar 2019 23:29

Tgt Ion:	85	Resp:	30882
Ion	Ratio	Lower	Upper
85	100		
87	27.8	26.7	40.1





#4

Chloromethane

Concen: 0.562 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL033481.D

Acq: 27 Mar 2019 23:29

Instrument :

MSVOA_L

ClientSampleId :

IAS-5-TEACHERS-ROOM

Tot Ion: 50 Resp: 26118

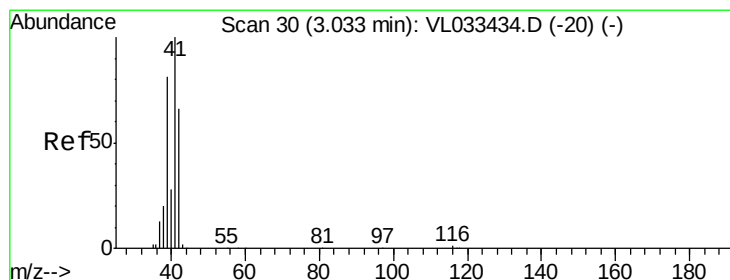
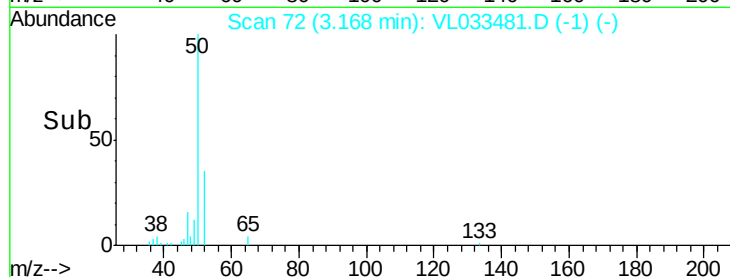
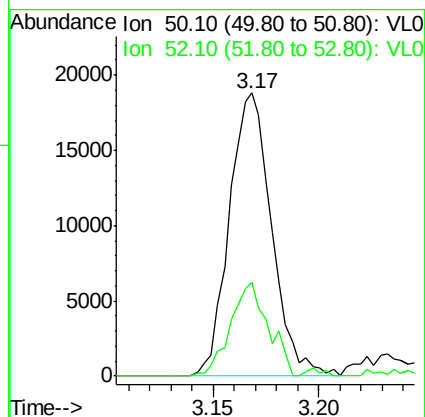
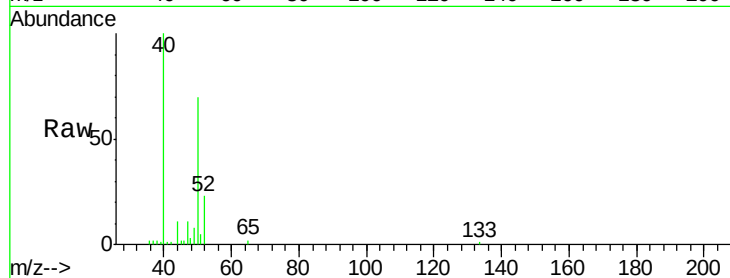
Ion Ratio Lower Upper

50 100

52 33.3 25.0 37.6

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#9

Propene

Concen: 0.770 ppbv m

RT: 3.04 min Scan# 33

Delta R.T. 0.01 min

Lab File: VL033481.D

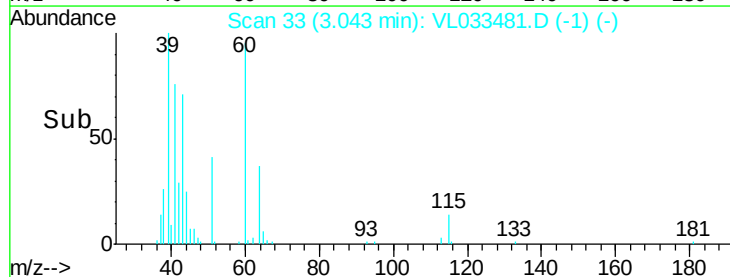
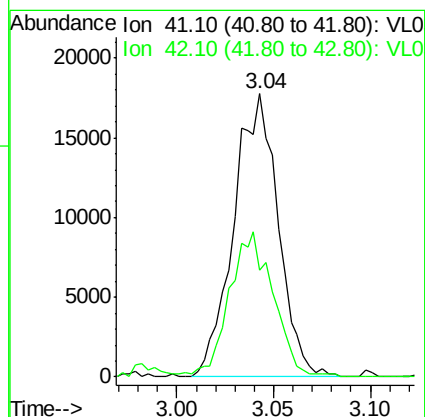
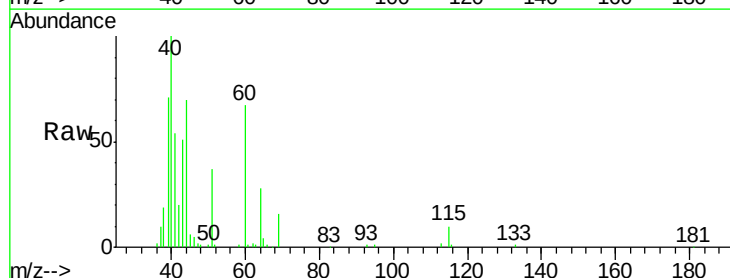
Acq: 27 Mar 2019 23:29

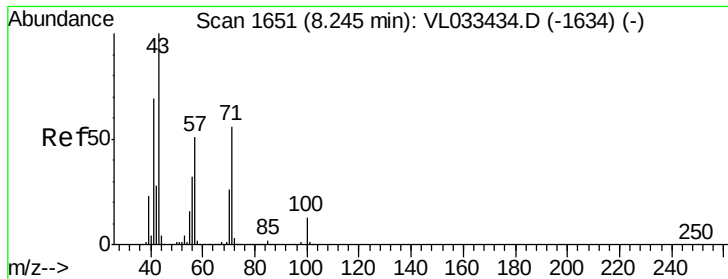
Tgt Ion: 41 Resp: 28381

Ion Ratio Lower Upper

41 100

42 206.3 53.9 80.9#





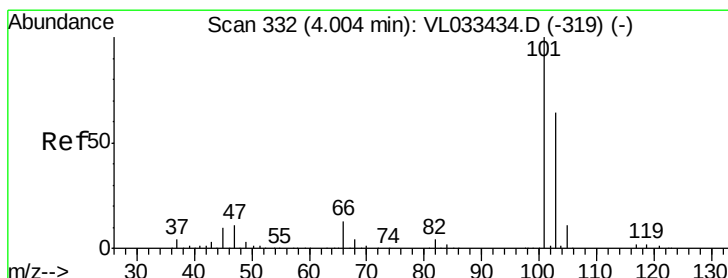
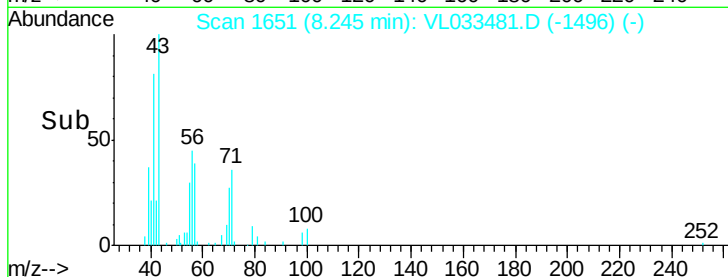
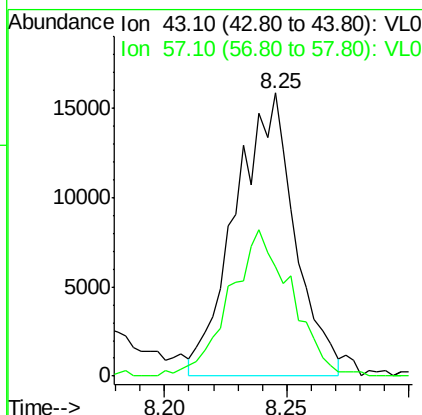
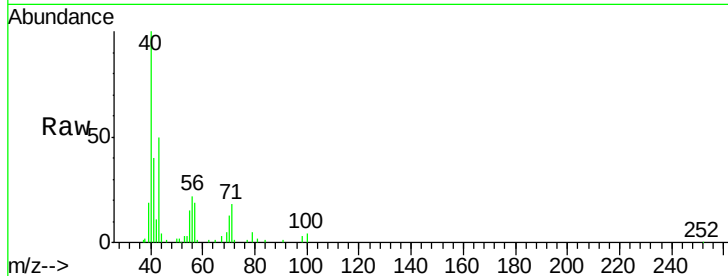
#10
Heptane
Concen: 0.272 ppbv
RT: 8.25 min Scan# 1651
Delta R.T. -0.00 min
Lab File: VL033481.D
Acq: 27 Mar 2019 23:29

Instrument :
MSVOA_L
ClientSampleId :
IAS-5-TEACHERS-ROOM

Tot Ion: 43 Resp: 26846
Ion Ratio Lower Upper
43 100
57 53.7 40.6 60.8

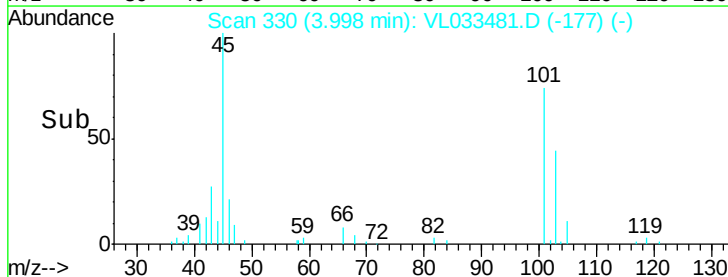
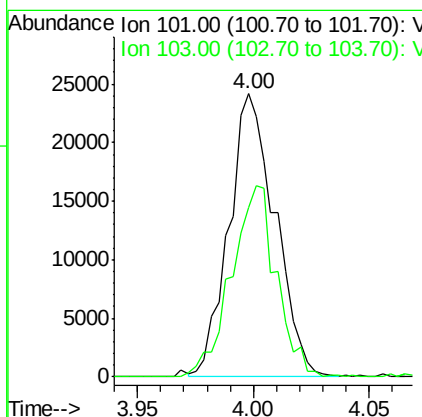
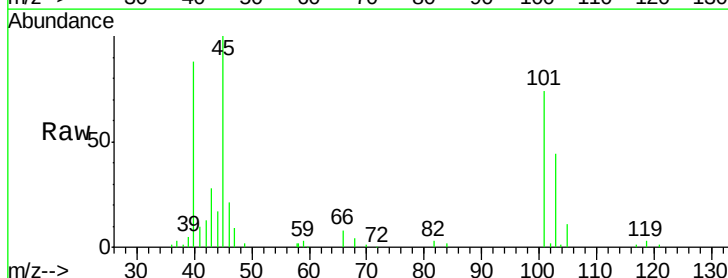
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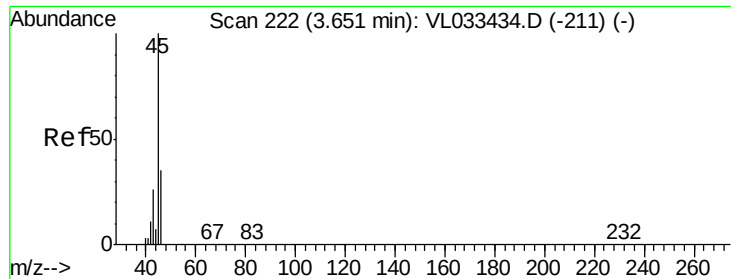
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#11
Trichlorofluoromethane
Concen: 0.244 ppbv
RT: 4.00 min Scan# 330
Delta R.T. -0.01 min
Lab File: VL033481.D
Acq: 27 Mar 2019 23:29

Tgt Ion:101 Resp: 33416
Ion Ratio Lower Upper
101 100
103 60.1 51.3 76.9





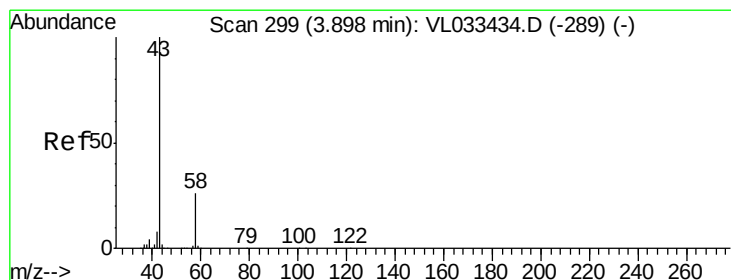
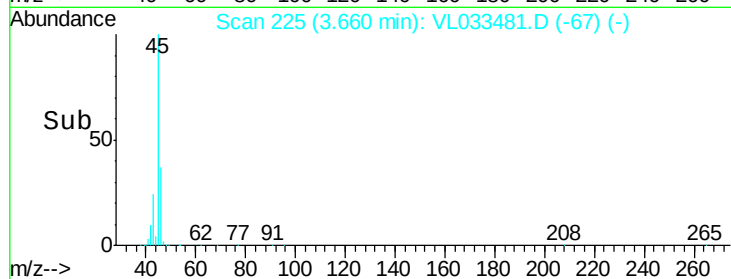
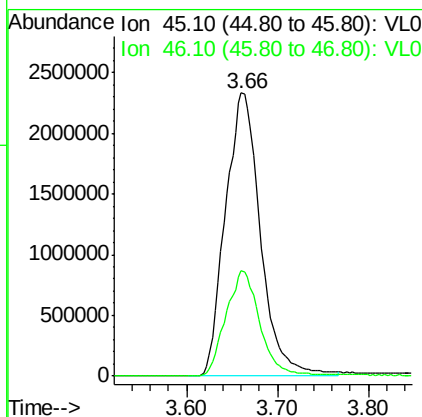
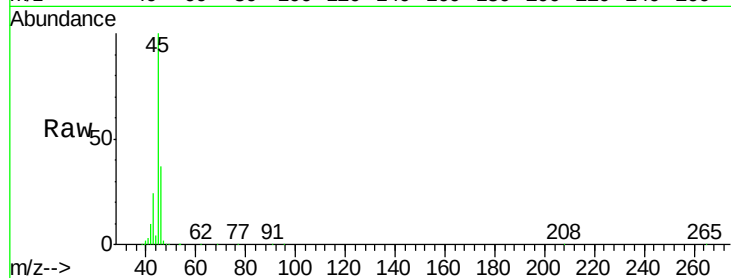
#13
Ethanol
Concen: 655.223 ppbv
RT: 3.66 min Scan# 225
Delta R.T. 0.01 min
Lab File: VL033481.D
Acq: 27 Mar 2019 23:29

Instrument :
MSVOA_L
ClientSampleId :
IAS-5-TEACHERS-ROOM

Tot Ion: 45 Resp: 6252532
Ion Ratio Lower Upper
45 100
46 36.6 25.4 101.8

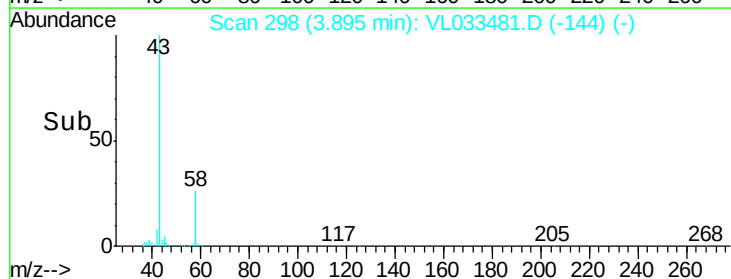
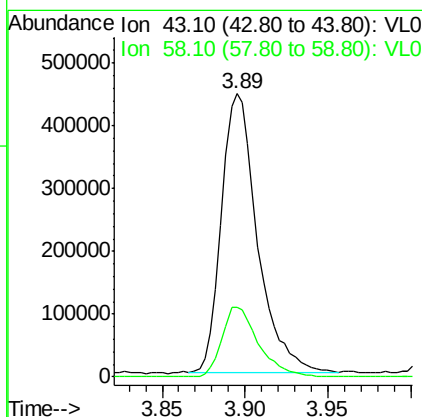
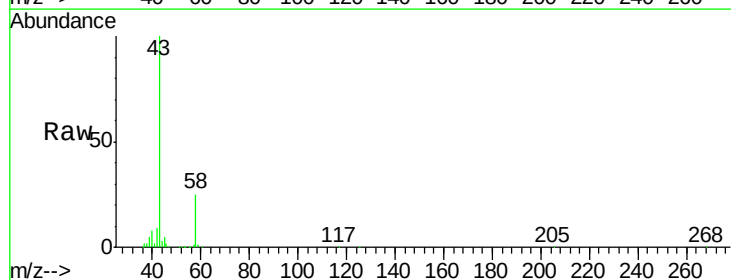
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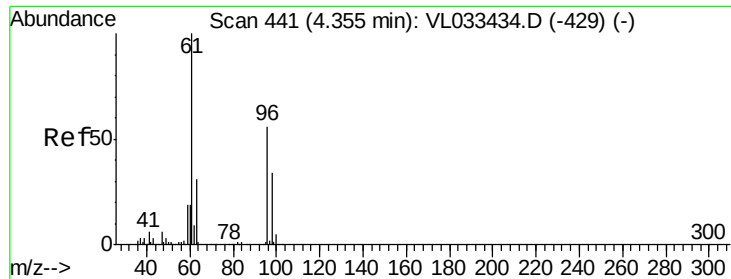
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#15
Acetone
Concen: 7.352 ppbv
RT: 3.89 min Scan# 298
Delta R.T. -0.00 min
Lab File: VL033481.D
Acq: 27 Mar 2019 23:29

Tgt Ion: 43 Resp: 674284
Ion Ratio Lower Upper
43 100
58 25.5 20.5 30.7





#17

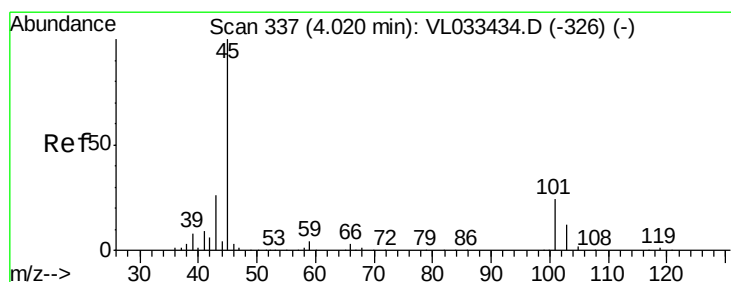
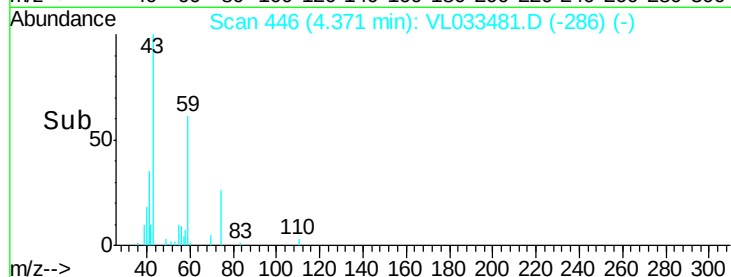
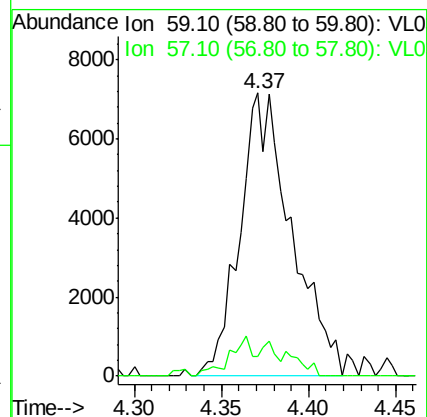
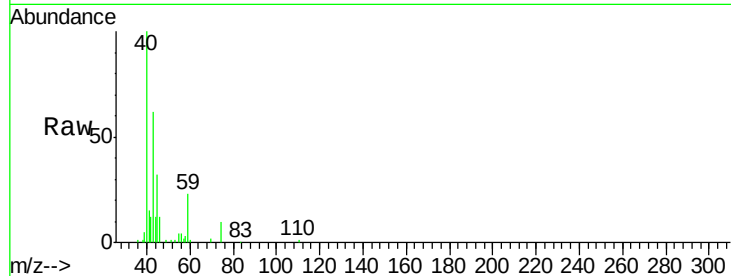
tert-Butyl alcohol
Concen: 0.874 ppbv
RT: 4.37 min Scan# 446
Delta R.T. 0.02 min
Lab File: VL033481.D
Acq: 27 Mar 2019 23:29

Instrument :
MSVOA_L
ClientSampleId :
IAS-5-TEACHERS-ROOM

Tot Ion: 59 Resp: 14746
Ion Ratio Lower Upper
59 100
57 13.7 7.8 11.8#

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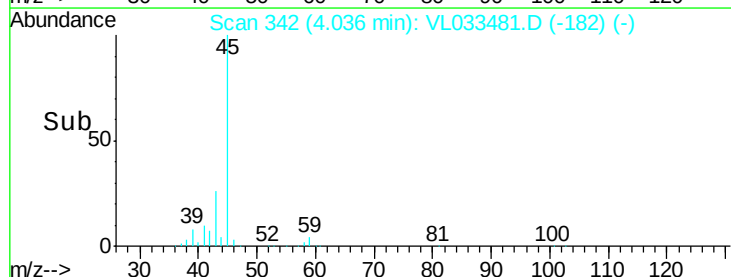
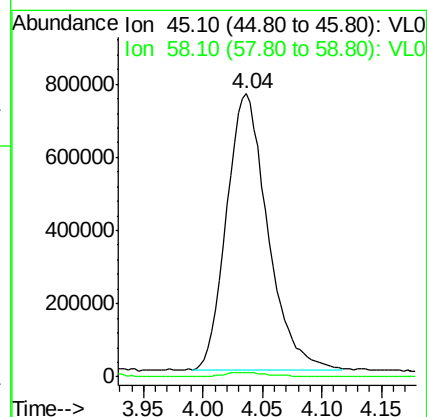
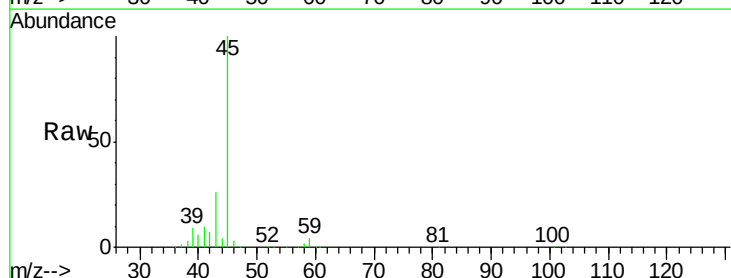
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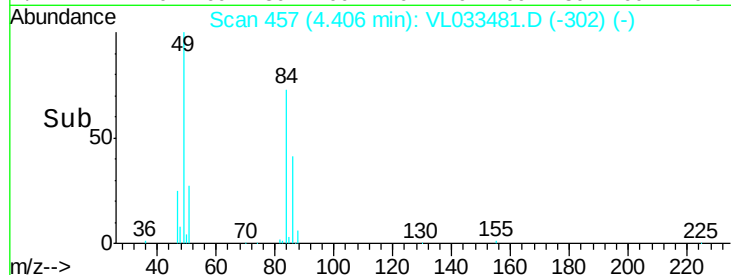
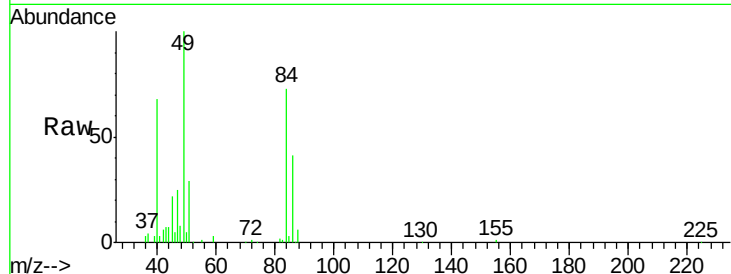
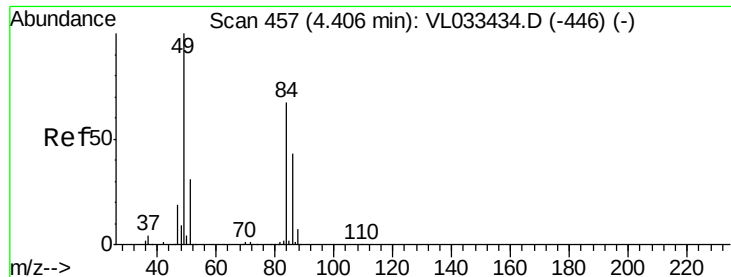


#19

Isopropyl Alcohol
Concen: 31.053 ppbv
RT: 4.04 min Scan# 342
Delta R.T. 0.02 min
Lab File: VL033481.D
Acq: 27 Mar 2019 23:29

Tgt Ion: 45 Resp: 1801323
Ion Ratio Lower Upper
45 100
58 2.0 1.4 2.2





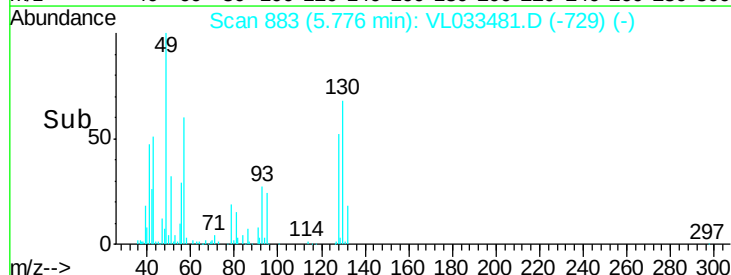
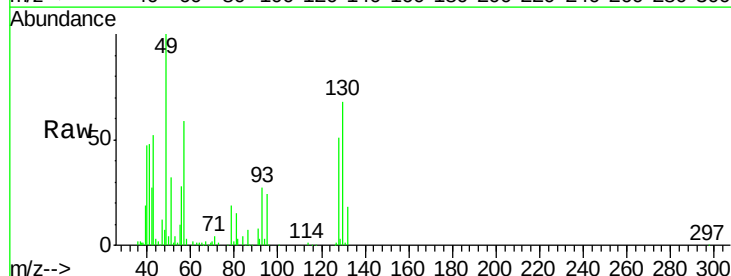
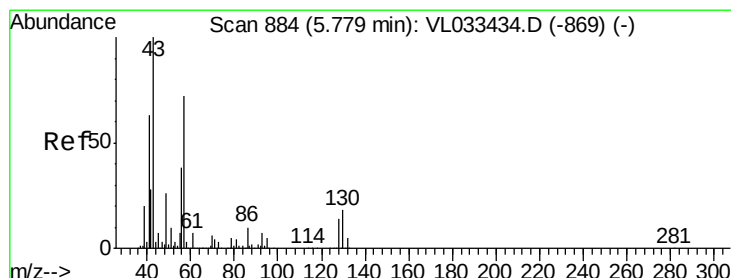
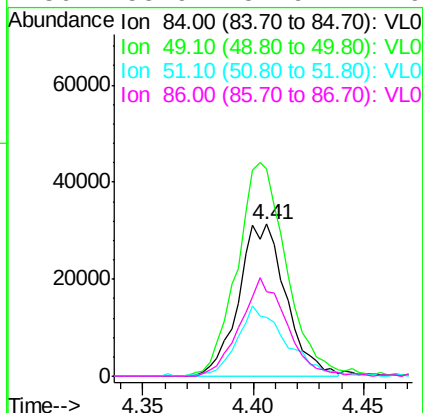
#20
Methvlene Chloride
Concen: 1.206 ppbv
RT: 4.41 min Scan# 457
Delta R.T. -0.00 min
Lab File: VL033481.D
Acq: 27 Mar 2019 23:29

Tot Ion	84	Resp	46968
Ion	Ratio	Lower	Upper
84	100		
49	135.0	120.0	180.0
51	38.2	36.7	55.1
86	55.9	51.9	77.9

Instrument :
MSVOA_L
ClientSampleId :
IAS-5-TEACHERS-ROOM

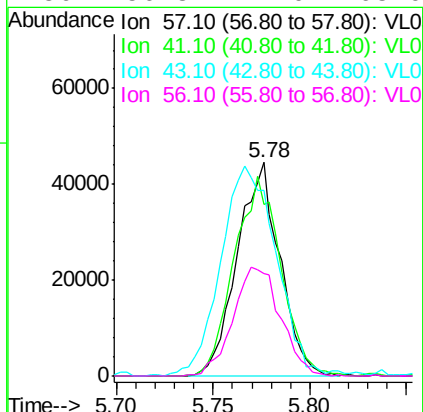
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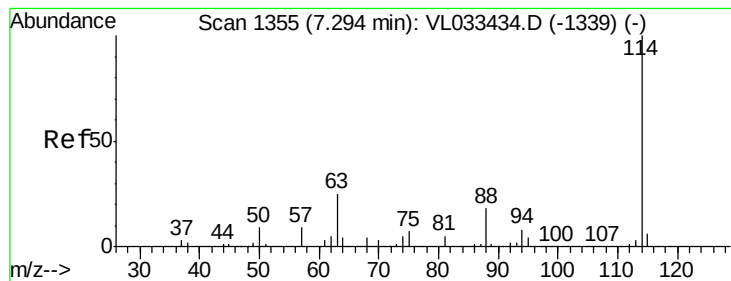
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#26
Hexane
Concen: 0.903 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.00 min
Lab File: VL033481.D
Acq: 27 Mar 2019 23:29

Tgt Ion	57	Resp	68329
Ion	Ratio	Lower	Upper
57	100		
41	102.6	70.7	106.1
43	129.7	182.6	274.0#
56	56.8	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: VL033481.D

Acq: 27 Mar 2019 23:29

Instrument :

MSVOA_L

ClientSampleId :

IAS-5-TEACHERS-ROOM

Tot Ion:114 Resp: 1774100

Ion Ratio Lower Upper

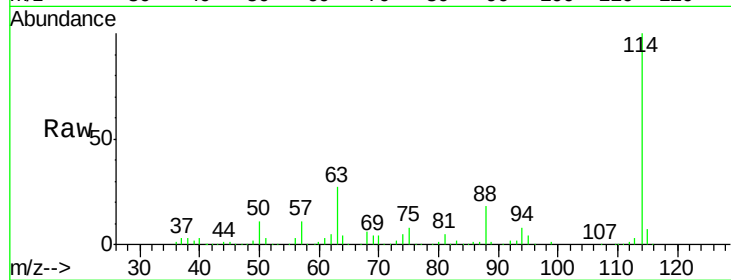
114 100

63 26.8 21.5 32.3

88 18.3 14.5 21.7

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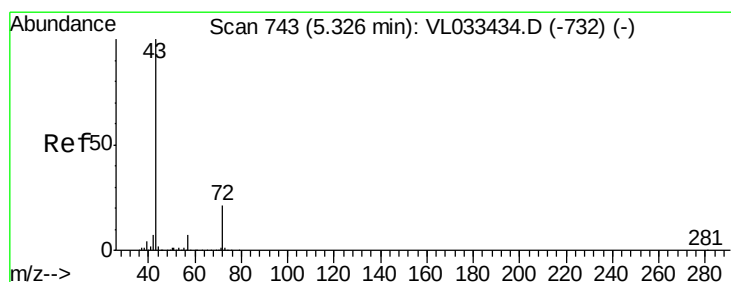
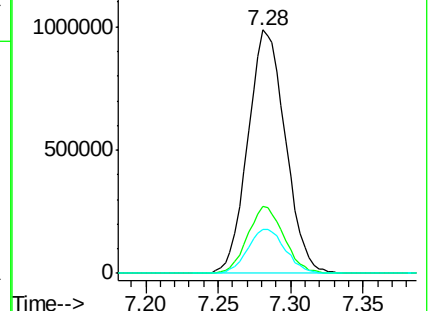
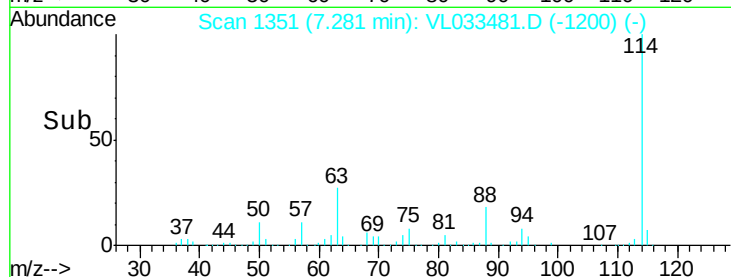
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Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.262 ppbv

RT: 5.33 min Scan# 743

Delta R.T. -0.00 min

Lab File: VL033481.D

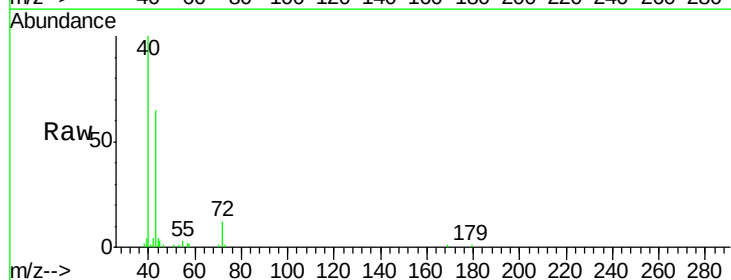
Acq: 27 Mar 2019 23:29

Tgt Ion: 43 Resp: 27896

Ion Ratio Lower Upper

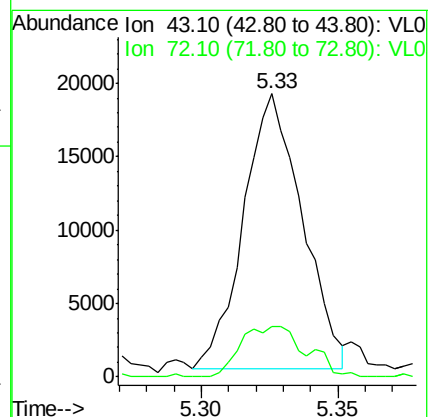
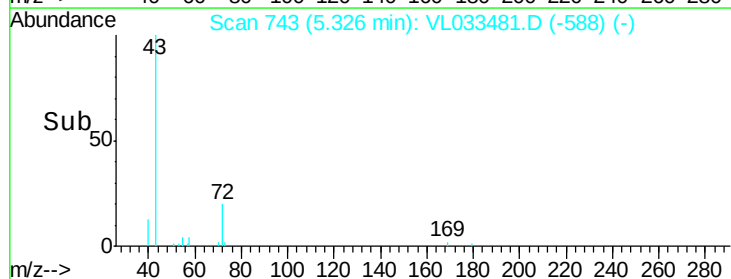
43 100

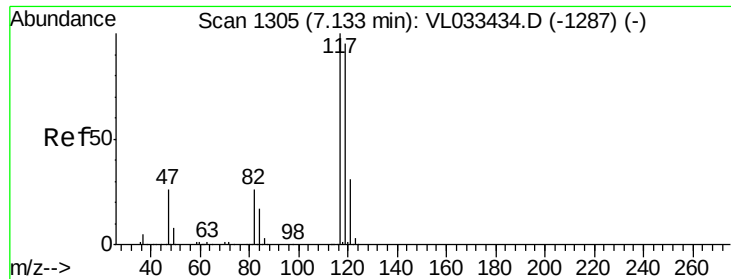
72 20.7 17.4 26.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.059 ppbv m

RT: 7.13 min Scan# 1304

Delta R.T. -0.00 min

Lab File: VL033481.D

Acq: 27 Mar 2019 23:29

Instrument :

MSVOA_L

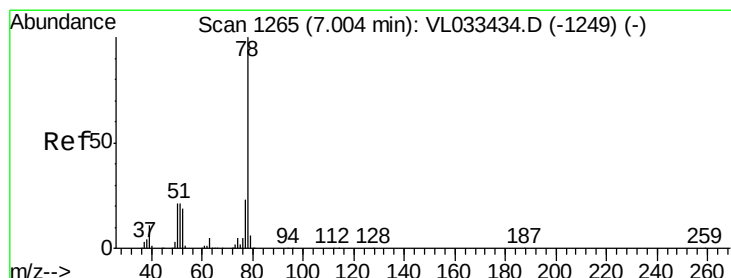
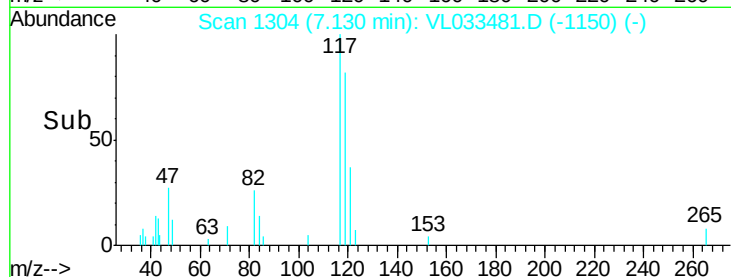
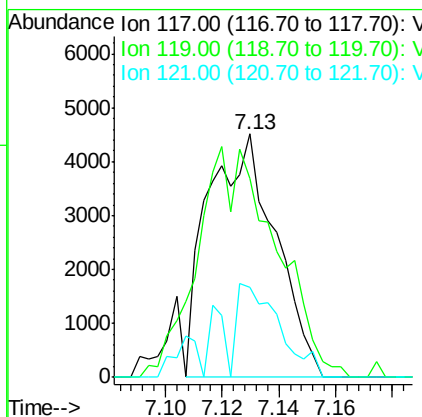
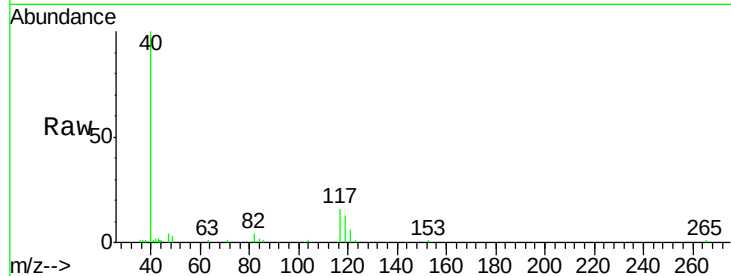
ClientSampleId :

IAS-5-TEACHERS-ROOM

Tot Ion:	117	Resp:	7464
Ion	Ratio	Lower	Upper
117	100		
119	81.8	75.8	113.8
121	37.0	24.7	37.1

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#36

Benzene

Concen: 0.275 ppbv

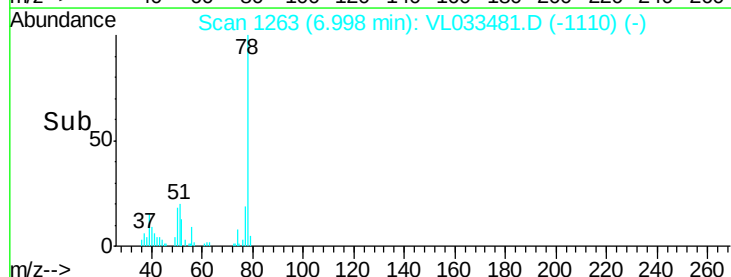
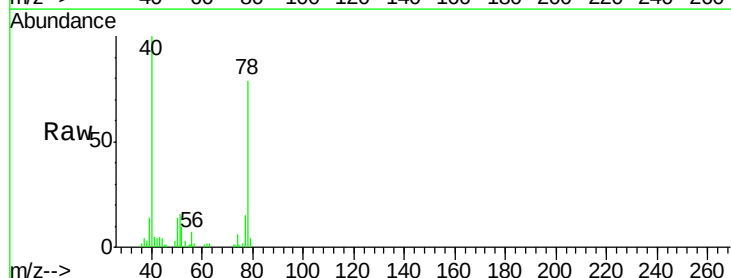
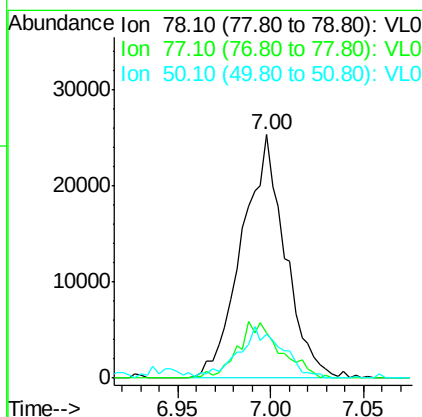
RT: 7.00 min Scan# 1263

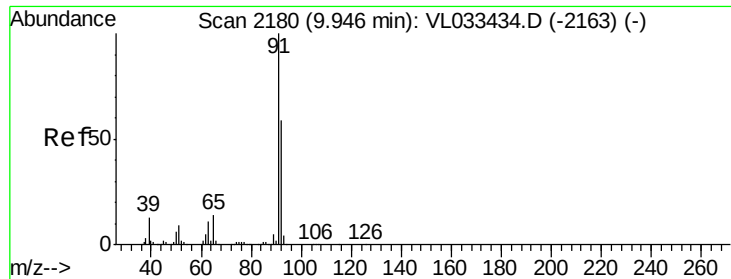
Delta R.T. -0.01 min

Lab File: VL033481.D

Acq: 27 Mar 2019 23:29

Tgt Ion:	78	Resp:	40953
Ion	Ratio	Lower	Upper
78	100		
77	18.6	18.1	27.1
50	18.1	16.7	25.1





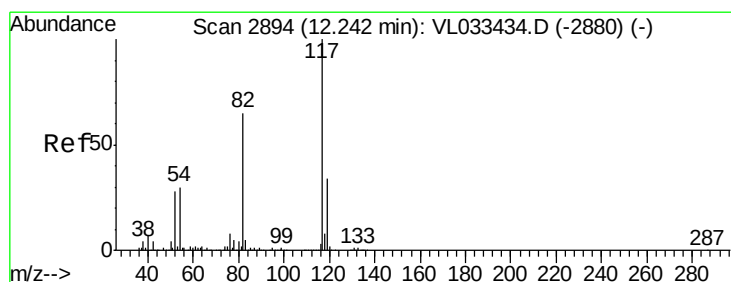
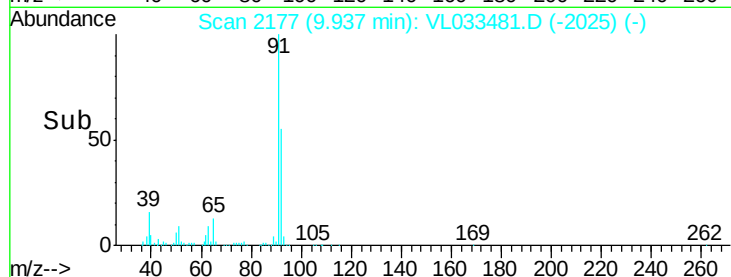
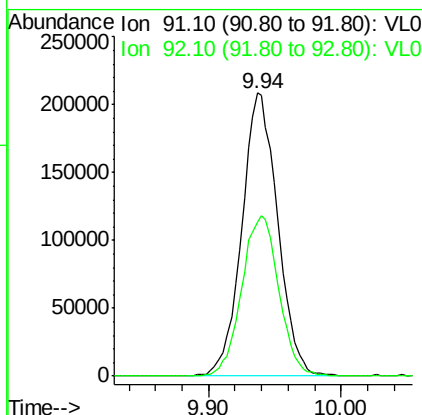
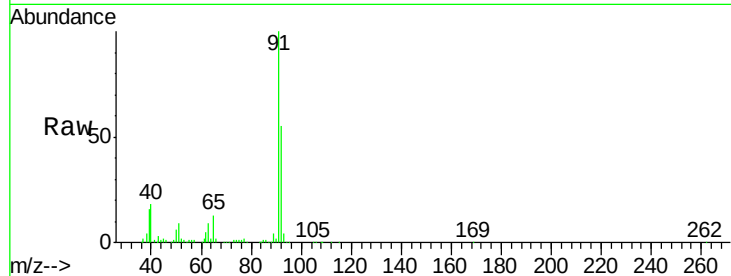
#53
Toluene
Concen: 2.268 ppbv
RT: 9.94 min Scan# 2177
Delta R.T. -0.01 min
Lab File: VL033481.D
Acq: 27 Mar 2019 23:29

Instrument :
MSVOA_L
ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
91	100		
92	58.7	47.4	71.0

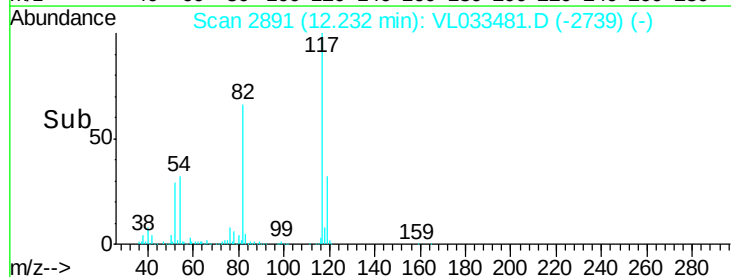
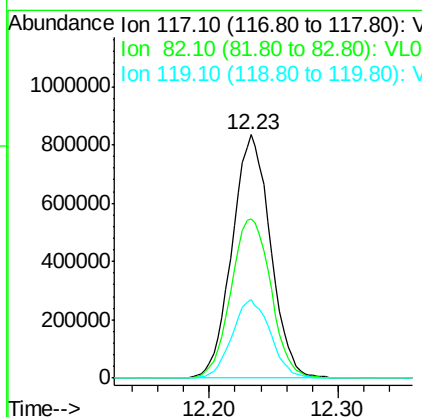
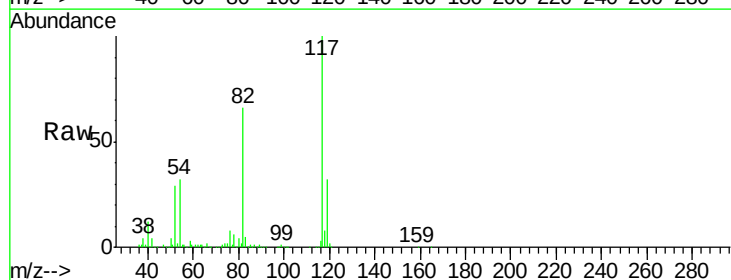
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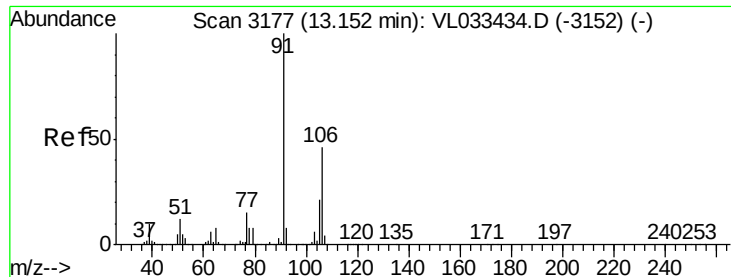
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#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2891
Delta R.T. -0.01 min
Lab File: VL033481.D
Acq: 27 Mar 2019 23:29

Tgt Ion	Ratio	Lower	Upper
117	100		
82	68.6	51.5	77.3
119	32.5	25.5	38.3





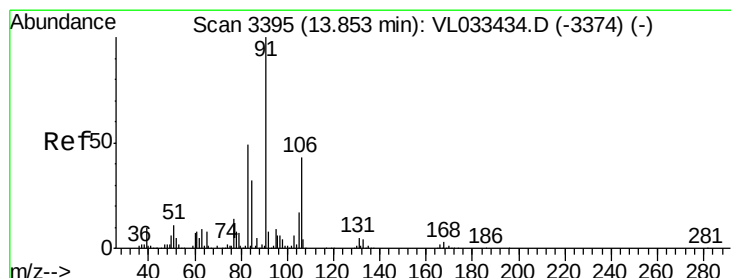
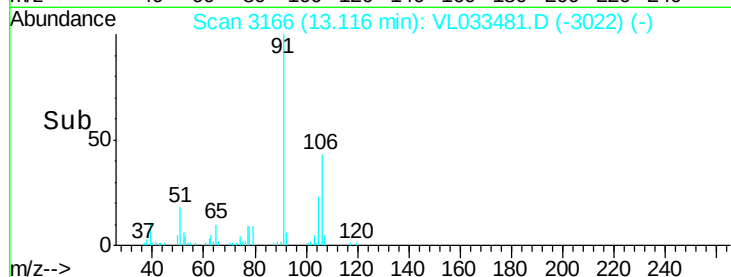
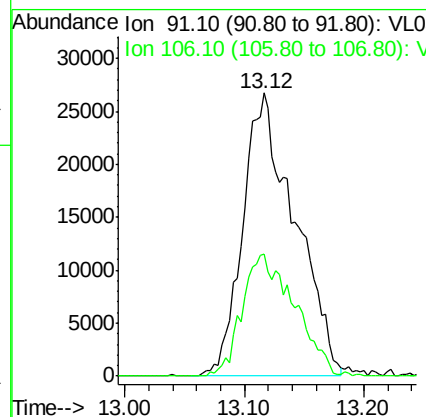
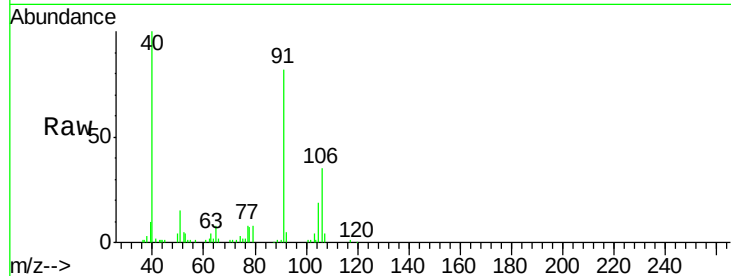
#59
m/p-Xylene
Concen: 0.392 ppbv m
RT: 13.12 min Scan# 3166
Delta R.T. -0.04 min
Lab File: VL033481.D
Acq: 27 Mar 2019 23:29

Instrument :
MSVOA_L
ClientSampleId :
IAS-5-TEACHERS-ROOM

Tot Ion	Ion	Ratio	Resp	Lower	Upper
91	100		80810		
106	0.0		0.0	0.0	0.0

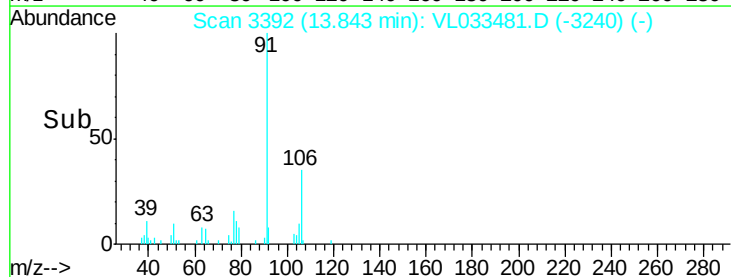
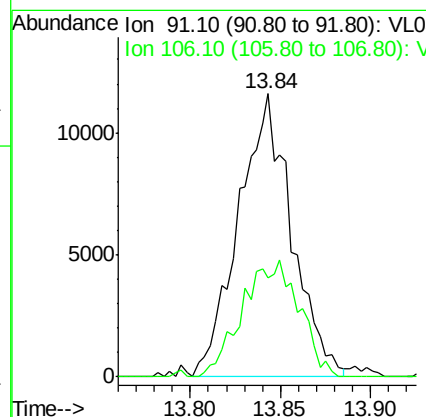
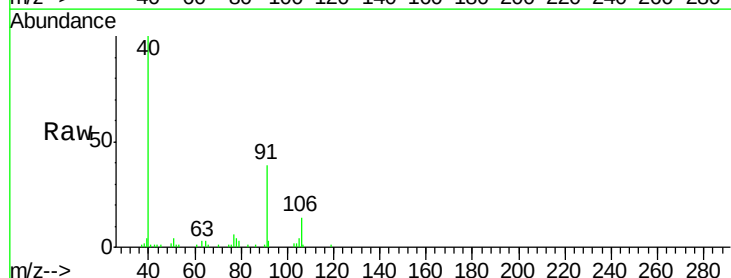
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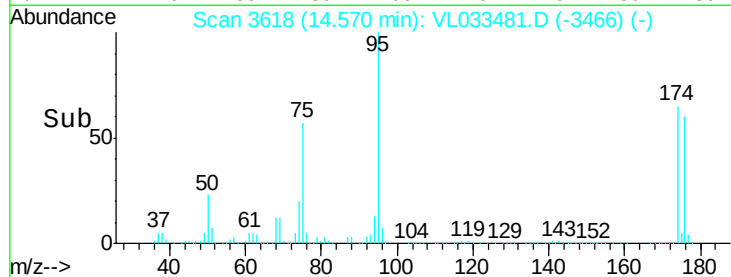
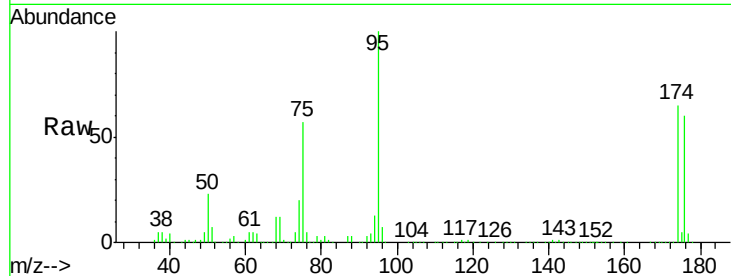
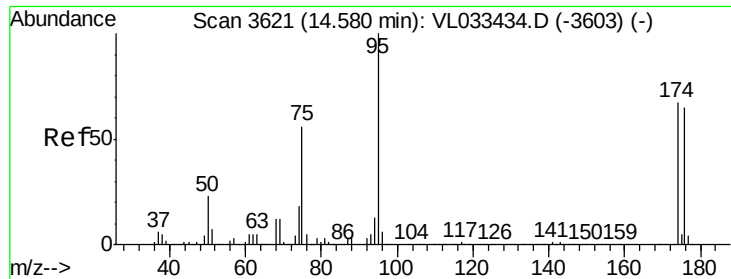
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#60
o-Xylene
Concen: 0.119 ppbv m
RT: 13.84 min Scan# 3392
Delta R.T. -0.01 min
Lab File: VL033481.D
Acq: 27 Mar 2019 23:29

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		23779		
106	0.0		21.4	64.3	#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.228 ppbv

RT: 14.57 min Scan# 3618

Delta R.T. -0.01 min

Lab File: VL033481.D

Acq: 27 Mar 2019 23:29

Tot Ion: 95 Resp: 1384947

Ion Ratio Lower Upper

95 100

174 65.8 52.9 79.3

175 4.7 3.8 5.6

Instrument :

MSVOA_L

ClientSampleId :

IAS-5-TEACHERS-ROOM

Manual Integrations

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