

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032719\
 Data File : VL033473.D
 Acq On : 27 Mar 2019 18:06
 Operator : SY/AP
 Sample : K2042-11DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-9-PRE-K-TEACHERS-RMDUP

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 4/1/2019 1:25:51 AM

Quant Time: Mar 31 11:11:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue 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	720920	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	1663809	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	1630984	10.00	ppbv	-0.01

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene		14.57	95	1284775	10.05	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.50%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	28196	0.268	ppbv	92
4) Chloromethane	3.17	50	25349	0.577	ppbv	95
9) Propene	3.04	41	28492m	0.817	ppbv	
11) Trichlorofluoromethane	4.00	101	38129	0.294	ppbv	96
13) Ethanol	3.65	45	863204	95.705	ppbv	65
15) Acetone	3.89	43	1206226	13.915	ppbv	99
19) Isopropyl Alcohol	4.03	45	193911	3.537	ppbv #	1
20) Methylene Chloride	4.40	84	953223	25.906	ppbv	95
26) Hexane	5.77	57	608532	8.510	ppbv #	41
34) 2-Butanone	5.33	43	32829m	0.328	ppbv	
36) Benzene	6.99	78	33077	0.237	ppbv #	93
53) Toluene	9.94	91	1892739	11.667	ppbv	99
58) Ethyl Benzene	12.86	91	16831m	0.077	ppbv	
59) m/p-Xylene	13.12	91	38667m	0.199	ppbv	
60) o-Xylene	13.84	91	13876m	0.074	ppbv	
61) Styrene	13.68	104	9341m	0.072	ppbv	
74) 1,2,4-Trimethylbenzene	16.91	105	15508m	0.071	ppbv	

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

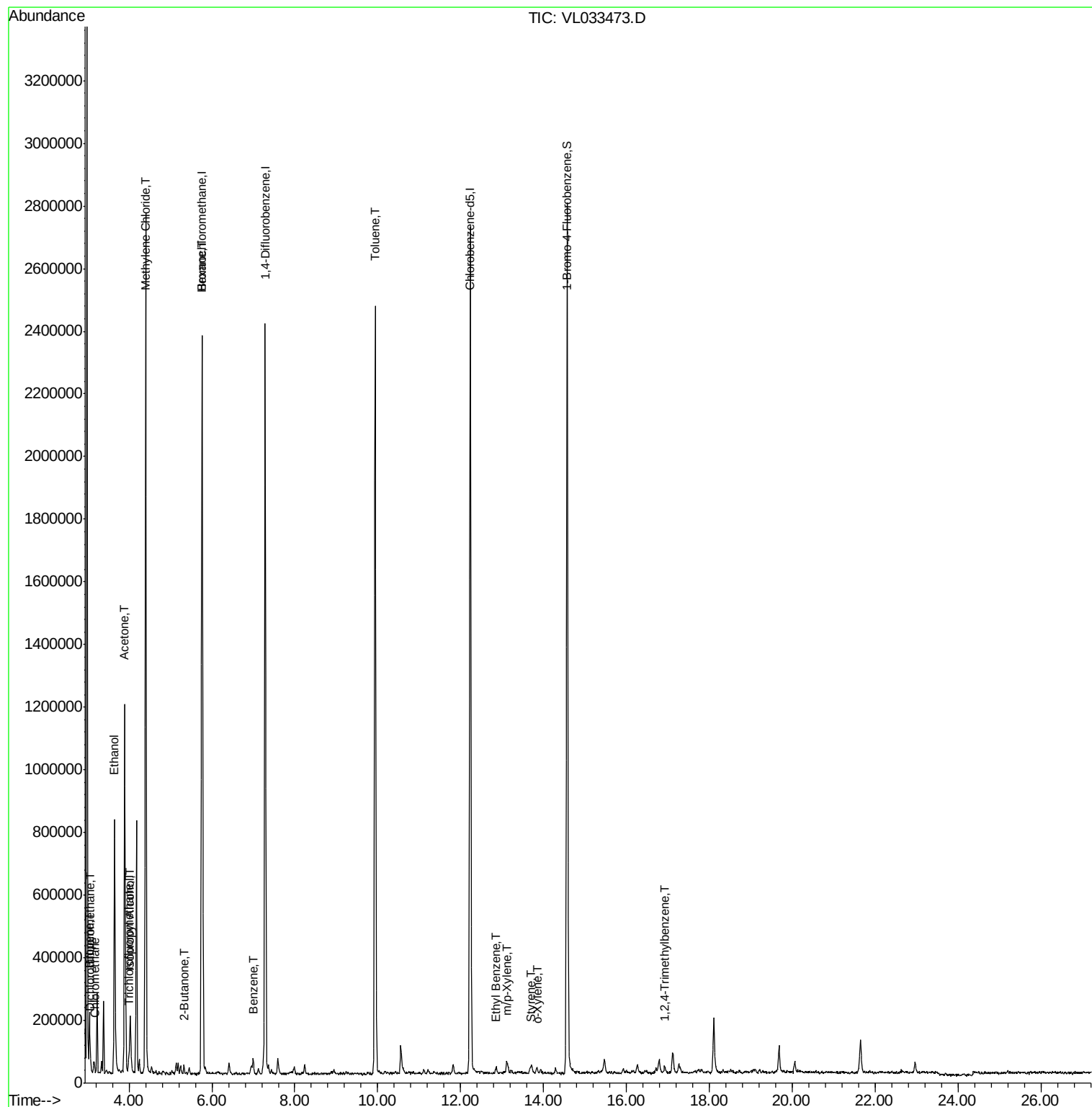
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032719\
Data File : VL033473.D
Acq On : 27 Mar 2019 18:06
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Sample : K2042-11DUP
Misc : 400ml/MSVOA L
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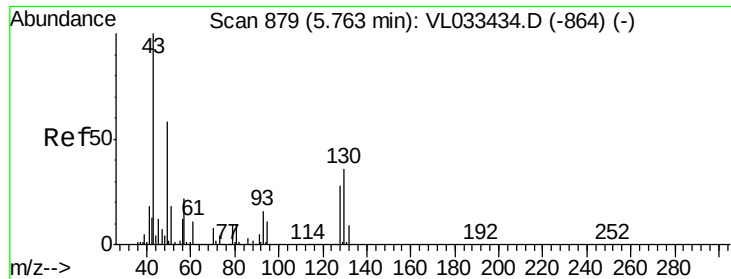
Instrument :
MSVOA_L
ClientSampleId :
IAS-9-PRE-K-TEACHERS-RMDUP

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Quant Time: Mar 31 11:11:07 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: VL033473.D

Acq: 27 Mar 2019 18:06

Instrument :

MSVOA_L

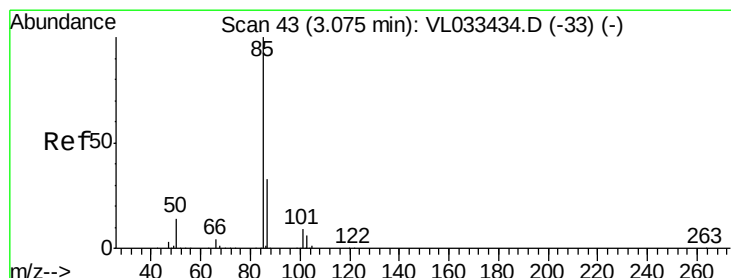
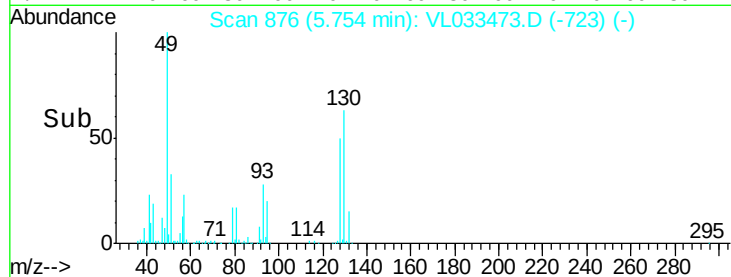
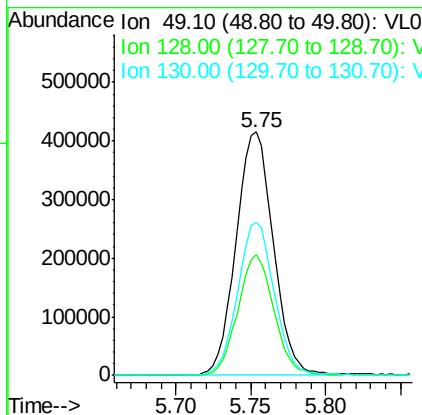
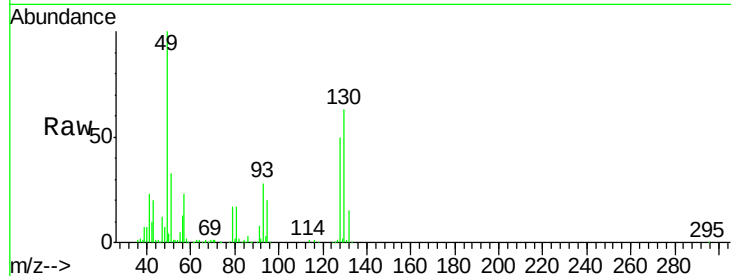
ClientSampleId :

IAS-9-PRE-K-TEACHERS-RMDUP

Tot Ion:	49	Resp:	720920
Ion	Ratio	Lower	Upper
49	100		
128	48.2	24.0	72.0
130	62.4	31.2	93.6

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#2

Dichlorodifluoromethane

Concen: 0.268 ppbv

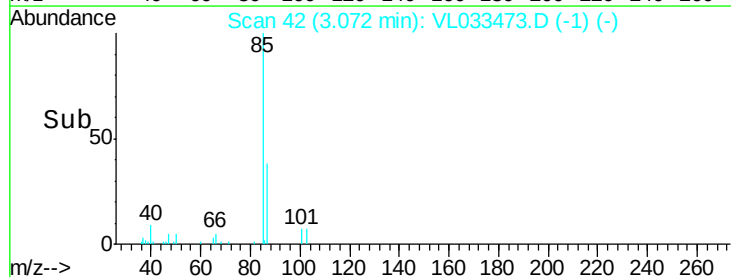
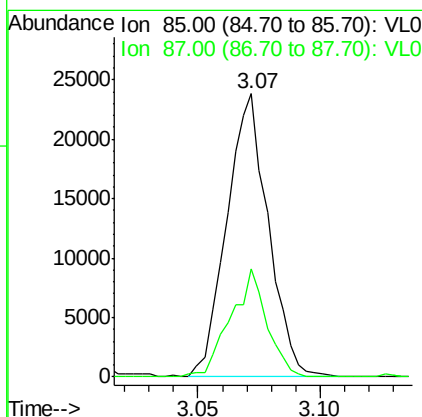
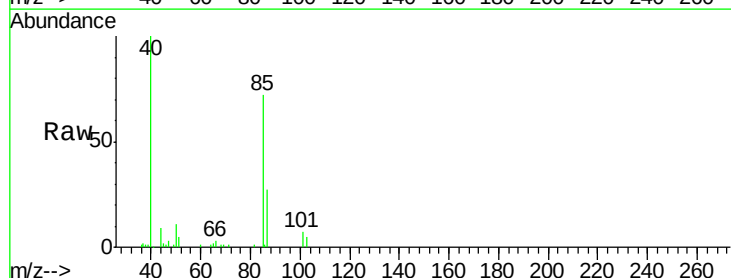
RT: 3.07 min Scan# 42

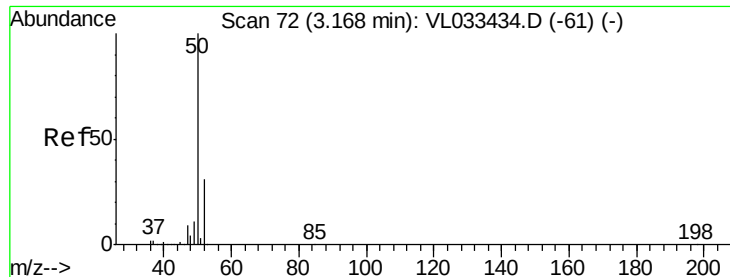
Delta R.T. -0.00 min

Lab File: VL033473.D

Acq: 27 Mar 2019 18:06

Tgt Ion:	85	Resp:	28196
Ion	Ratio	Lower	Upper
85	100		
87	38.1	26.7	40.1





#4

Chloromethane

Concen: 0.577 ppbv

RT: 3.17 min Scan# 72

Delta R.T. 0.00 min

Lab File: VL033473.D

Acq: 27 Mar 2019 18:06

Instrument :

MSVOA_L

ClientSampleId :

IAS-9-PRE-K-TEACHERS-RMDUP

Tot Ion: 50 Resp: 25349

Ion Ratio Lower Upper

50 100

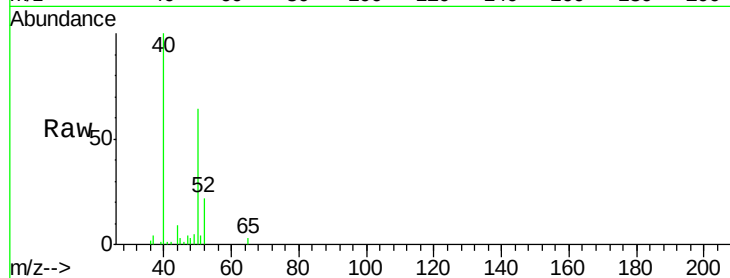
52 34.0 25.0 37.6

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Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.17

20000

15000

10000

5000

0

Time--> 3.10

3.15

3.20

3.25

3.30

3.35

3.40

3.45

3.50

3.55

3.60

3.65

3.70

3.75

3.80

3.85

3.90

3.95

4.00

4.05

4.10

4.15

4.20

4.25

4.30

4.35

4.40

4.45

4.50

4.55

4.60

4.65

4.70

4.75

4.80

4.85

4.90

4.95

5.00

5.05

5.10

5.15

5.20

5.25

5.30

5.35

5.40

5.45

5.50

5.55

5.60

5.65

5.70

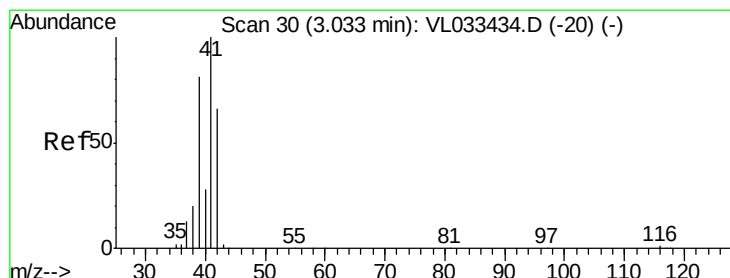
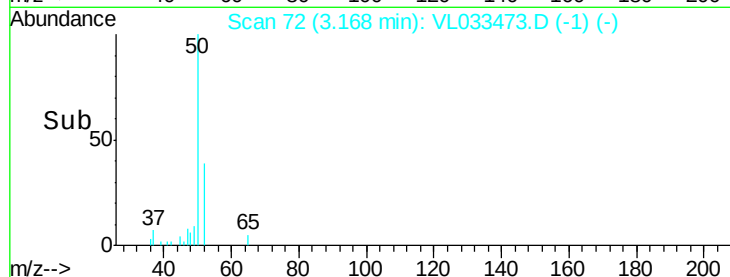
5.75

5.80

5.85

5.90

5.95



#9

Propene

Concen: 0.817 ppbv m

RT: 3.04 min Scan# 32

Delta R.T. 0.01 min

Lab File: VL033473.D

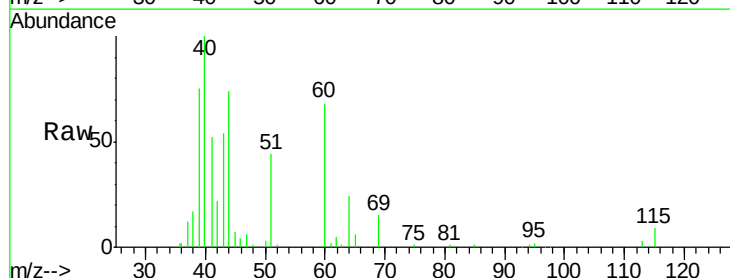
Acq: 27 Mar 2019 18:06

Tgt Ion: 41 Resp: 28492

Ion Ratio Lower Upper

41 100

42 148.1 53.9 80.9#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.04

20000

15000

10000

5000

0

Time--> 3.00

3.05

3.10

3.15

3.20

3.25

3.30

3.35

3.40

3.45

3.50

3.55

3.60

3.65

3.70

3.75

3.80

3.85

3.90

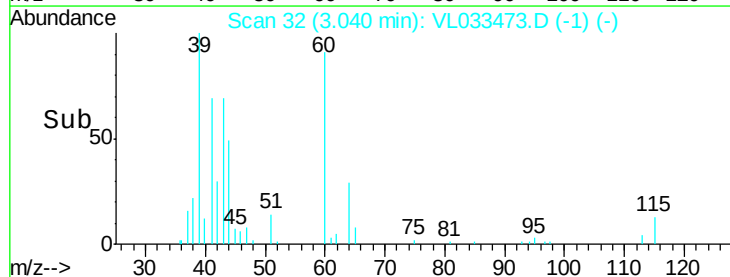
3.95

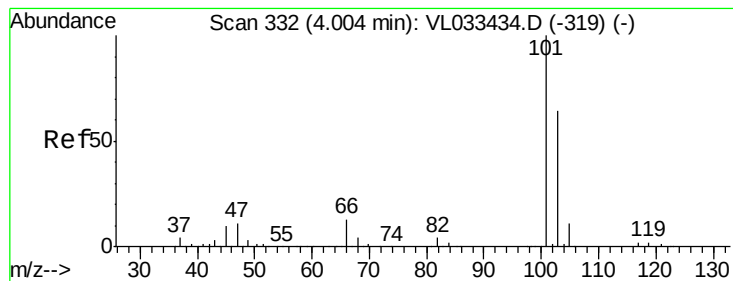
4.00

4.05

4.10

4.15





#11

Trichlorofluoromethane

Concen: 0.294 ppbv

RT: 4.00 min Scan# 330

Delta R.T. -0.01 min

Lab File: VL033473.D

Acq: 27 Mar 2019 18:06

Instrument :

MSVOA_L

ClientSampleId :

IAS-9-PRE-K-TEACHERS-RMDUP

Tot Ion: 101 Resp: 38129

Ion Ratio Lower Upper

101 100

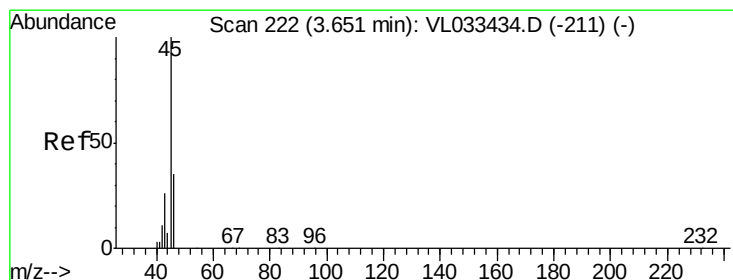
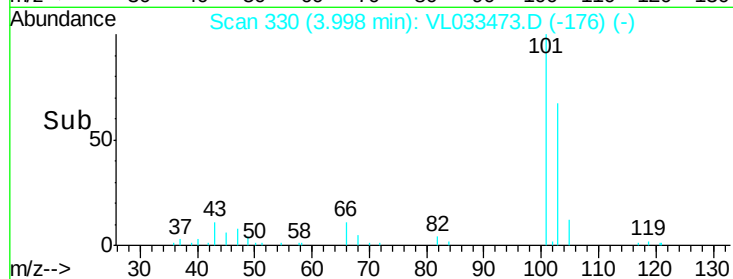
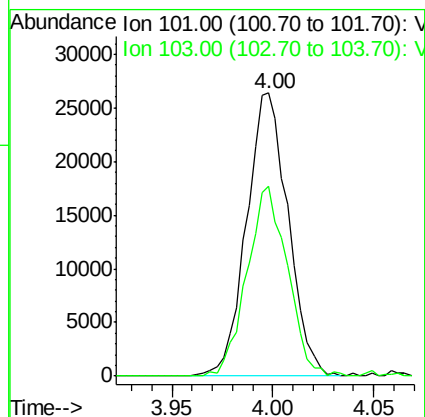
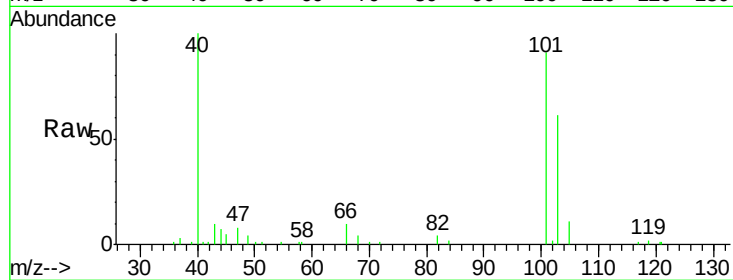
103 67.3 51.3 76.9

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#13

Ethanol

Concen: 95.705 ppbv

RT: 3.65 min Scan# 222

Delta R.T. 0.00 min

Lab File: VL033473.D

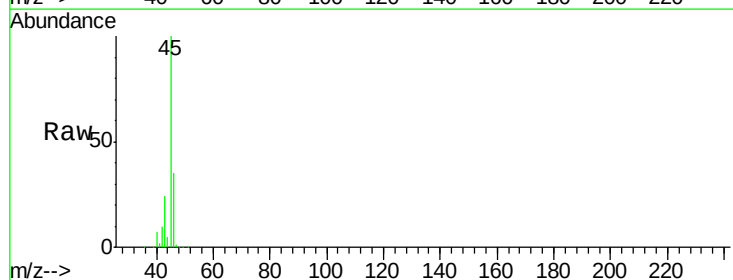
Acq: 27 Mar 2019 18:06

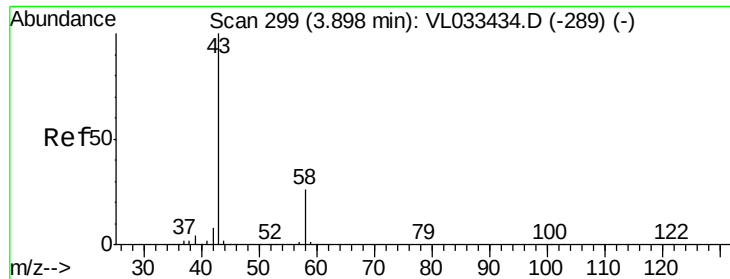
Tgt Ion: 45 Resp: 863204

Ion Ratio Lower Upper

45 100

46 36.2 25.4 101.8





#15

Acetone

Concen: 13.915 ppbv

RT: 3.89 min Scan# 297

Delta R.T. -0.01 min

Lab File: VL033473.D

Acq: 27 Mar 2019 18:06

Instrument :

MSVOA_L

ClientSampleId :

IAS-9-PRE-K-TEACHERS-RMDUP

Tot Ion: 43 Resp: 1206226

Ion Ratio Lower Upper

43 100

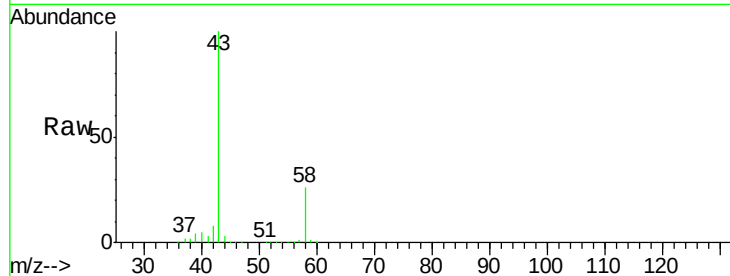
58 25.1 20.5 30.7

Manual Integrations

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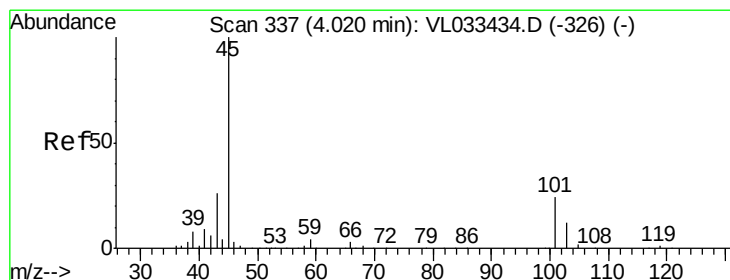
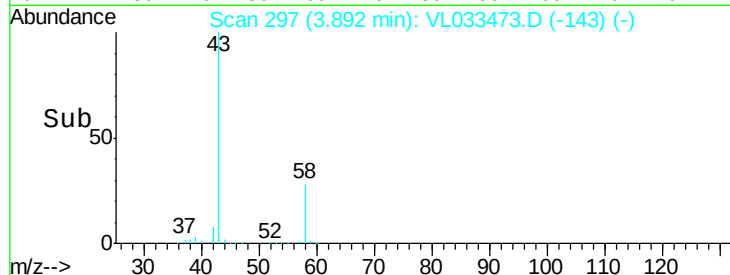
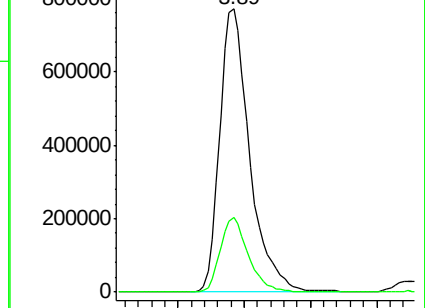
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#19

Isopropyl Alcohol

Concen: 3.537 ppbv

RT: 4.03 min Scan# 339

Delta R.T. 0.01 min

Lab File: VL033473.D

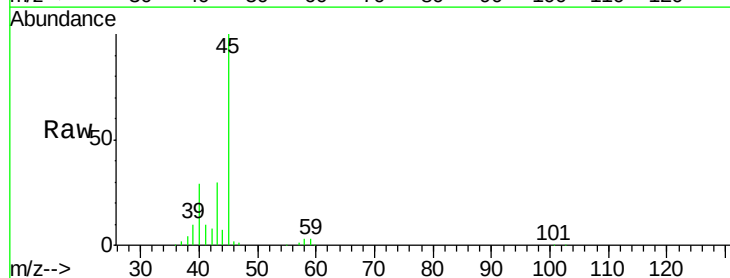
Acq: 27 Mar 2019 18:06

Tgt Ion: 45 Resp: 193911

Ion Ratio Lower Upper

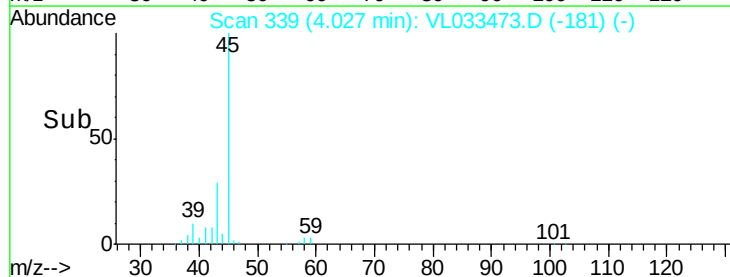
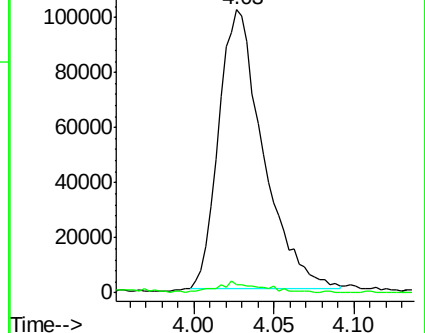
45 100

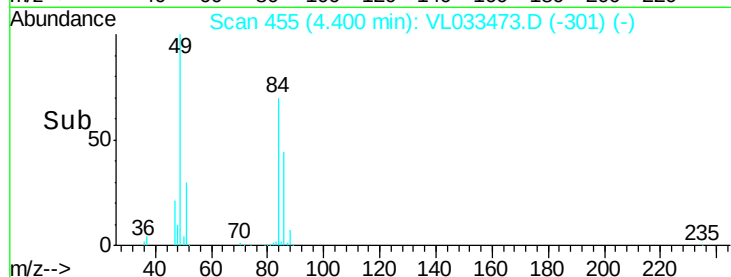
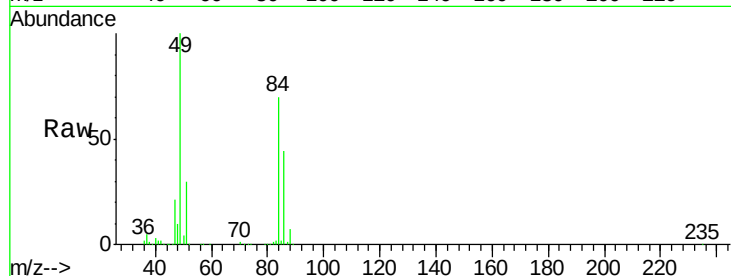
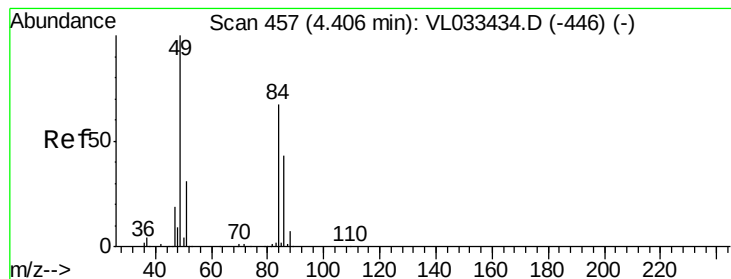
58 156.1 1.4 2.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#20

Methylene Chloride

Concen: 25.906 ppbv

RT: 4.40 min Scan# 455

Delta R.T. -0.01 min

Lab File: VL033473.D

Acq: 27 Mar 2019 18:06

Tot Ion:	84	Resp:	953223
Ion	Ratio	Lower	Upper
84	100		
49	142.0	120.0	180.0
51	42.1	36.7	55.1
86	62.5	51.9	77.9

Instrument :

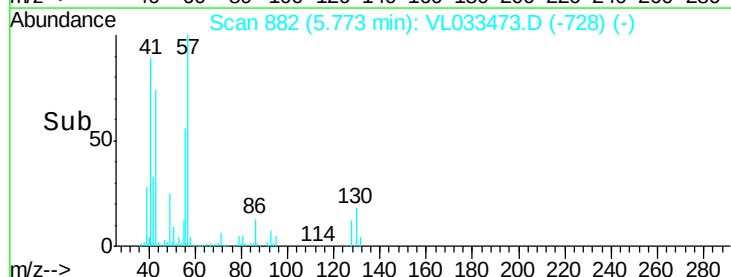
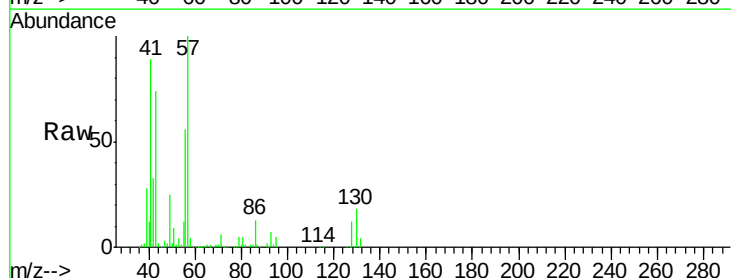
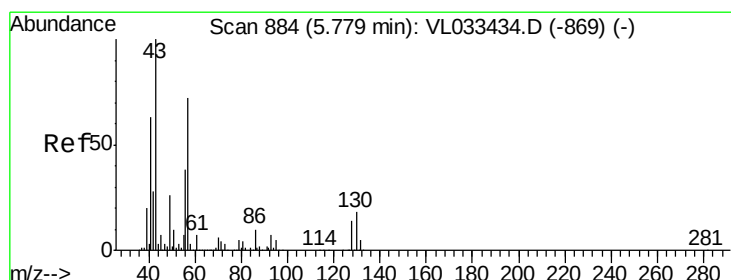
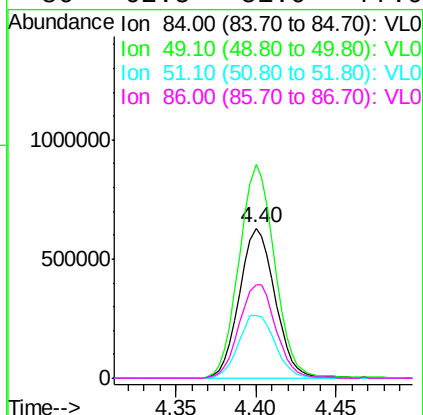
MSVOA_L

ClientSampleId :

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#26

Hexane

Concen: 8.510 ppbv

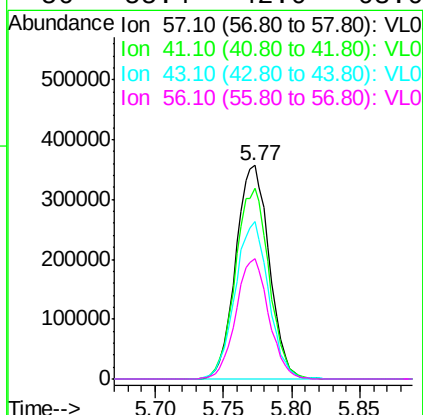
RT: 5.77 min Scan# 882

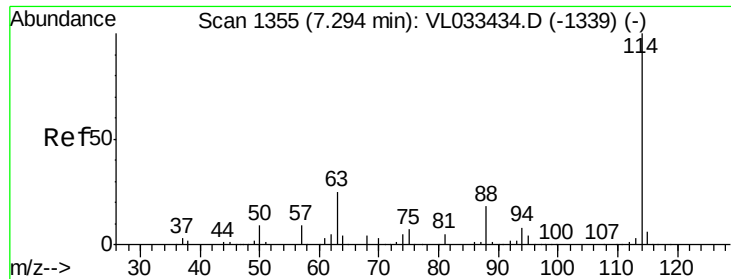
Delta R.T. -0.01 min

Lab File: VL033473.D

Acq: 27 Mar 2019 18:06

Tgt Ion:	57	Resp:	608532
Ion	Ratio	Lower	Upper
57	100		
41	90.1	70.7	106.1
43	73.9	182.6	274.0#
56	55.4	42.0	63.0





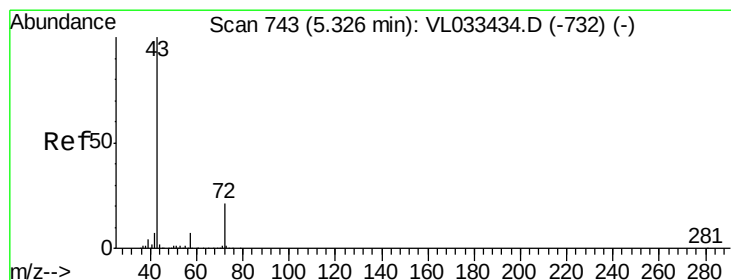
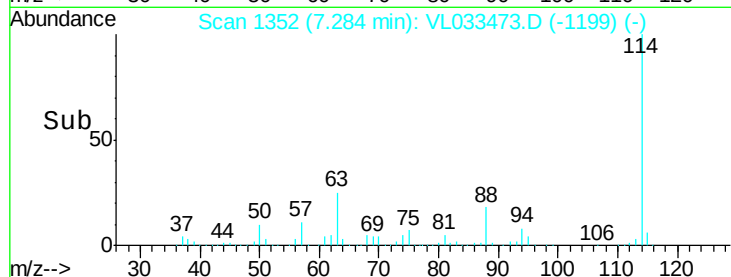
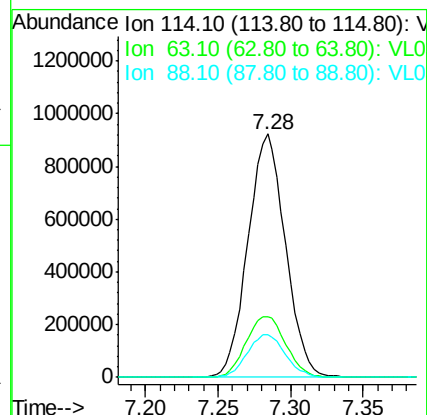
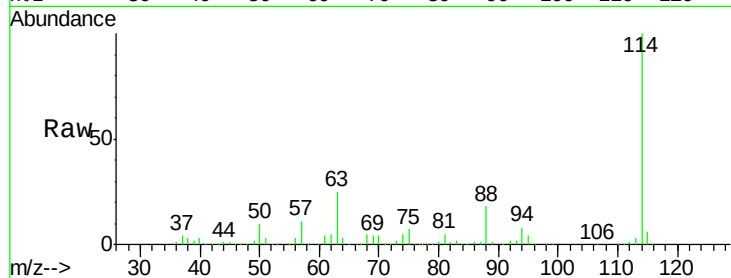
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.28 min Scan# 1352
 Delta R.T. -0.01 min
 Lab File: VL033473.D
 Acq: 27 Mar 2019 18:06

Instrument :
 MSVOA_L
 ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
114	100		
63	26.6	21.5	32.3
88	17.9	14.5	21.7

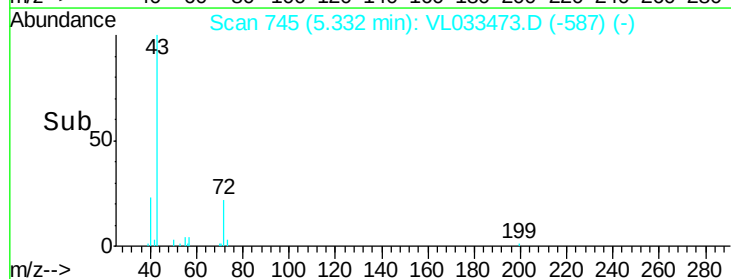
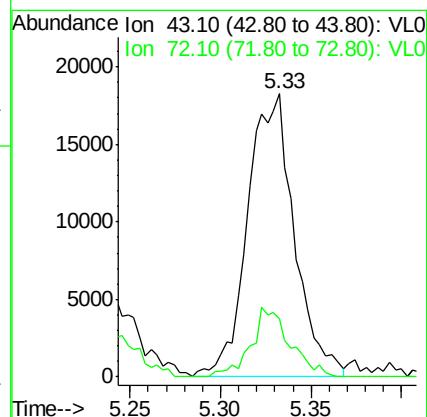
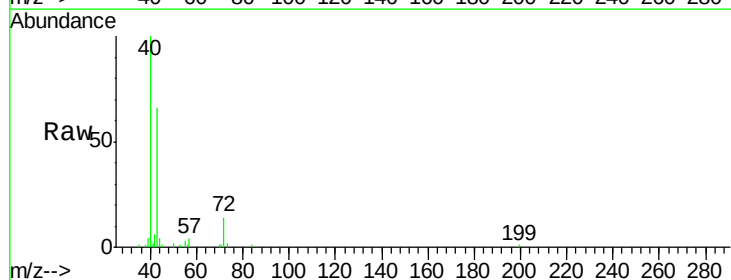
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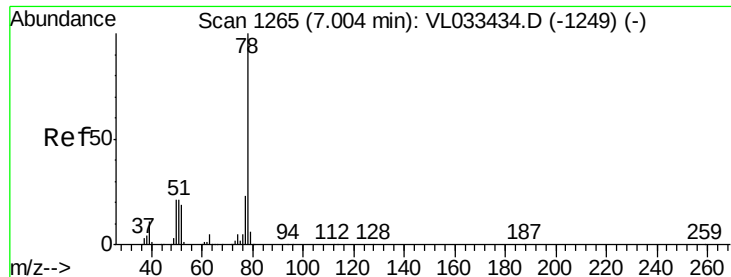
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#34
 2-Butanone
 Concen: 0.328 ppbv m
 RT: 5.33 min Scan# 745
 Delta R.T. 0.01 min
 Lab File: VL033473.D
 Acq: 27 Mar 2019 18:06

Tgt Ion	Ratio	Lower	Upper
43	100		
72	20.5	17.4	26.2





#36

Benzene

Concen: 0.237 ppbv

RT: 6.99 min Scan# 1261

Delta R.T. -0.01 min

Lab File: VL033473.D

Acq: 27 Mar 2019 18:06

Instrument :

MSVOA_L

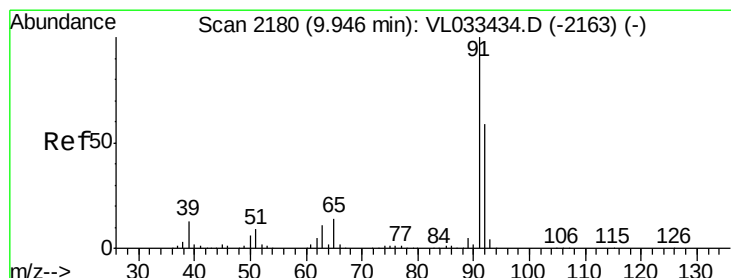
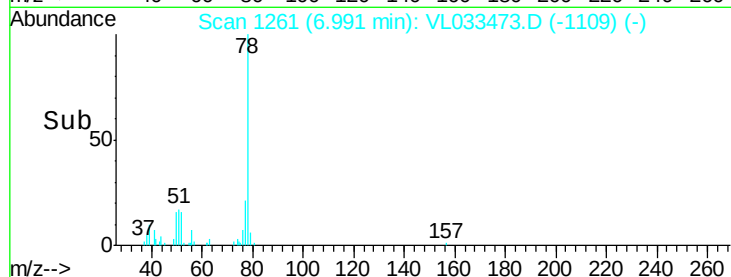
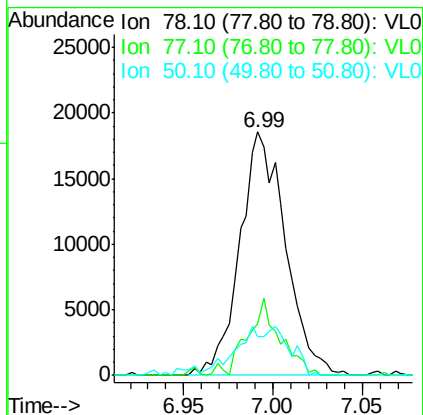
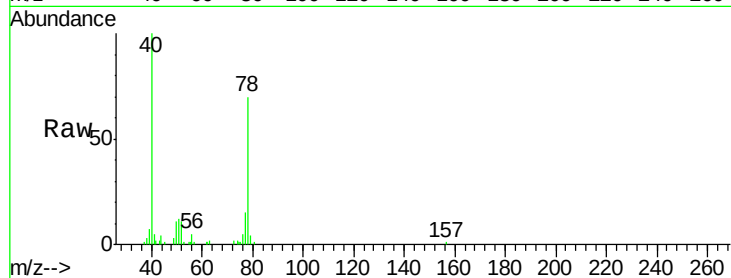
ClientSampleId :

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Tot Ion:	78	Resp:	33077
Ion	Ratio	Lower	Upper
78	100		
77	21.1	18.1	27.1
50	16.1	16.7	25.1#

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#53

Toluene

Concen: 11.667 ppbv

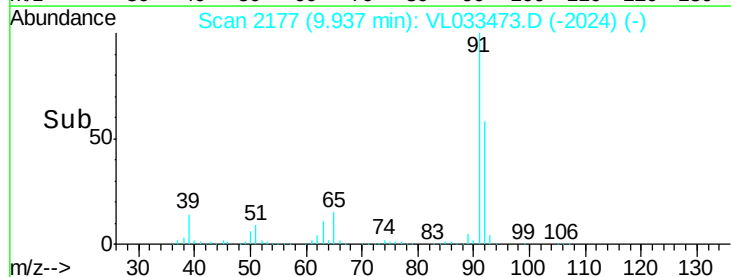
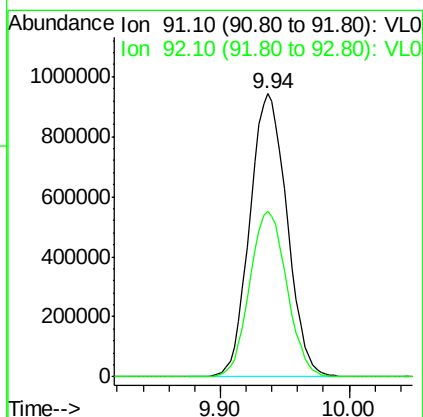
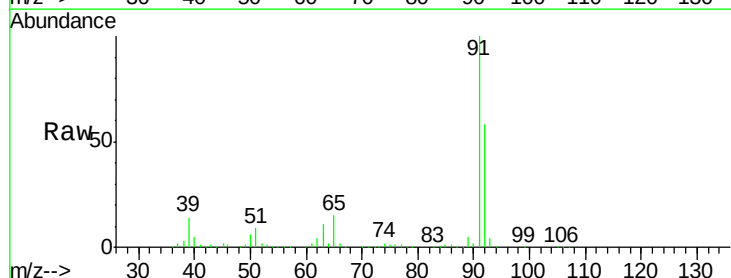
RT: 9.94 min Scan# 2177

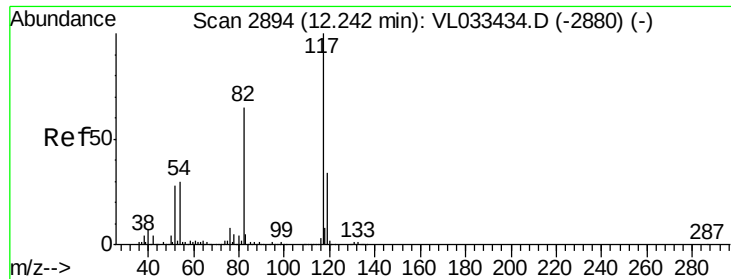
Delta R.T. -0.01 min

Lab File: VL033473.D

Acq: 27 Mar 2019 18:06

Tgt Ion:	91	Resp:	1892739
Ion	Ratio	Lower	Upper
91	100		
92	58.8	47.4	71.0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2890

Delta R.T. -0.01 min

Lab File: VL033473.D

Acq: 27 Mar 2019 18:06

Instrument :

MSVOA_L

ClientSampleId :

IAS-9-PRE-K-TEACHERS-RMDUP

Tot Ion:117 Resp: 1630984

Ion Ratio Lower Upper

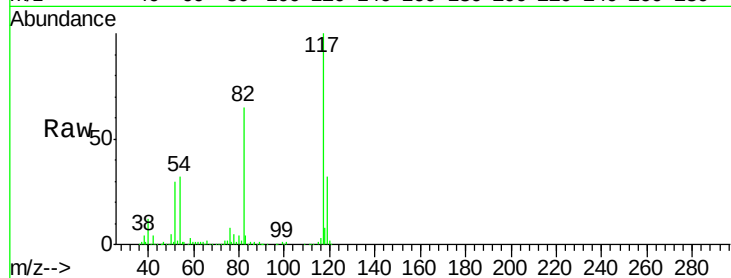
117 100

82 66.7 51.5 77.3

119 31.9 25.5 38.3

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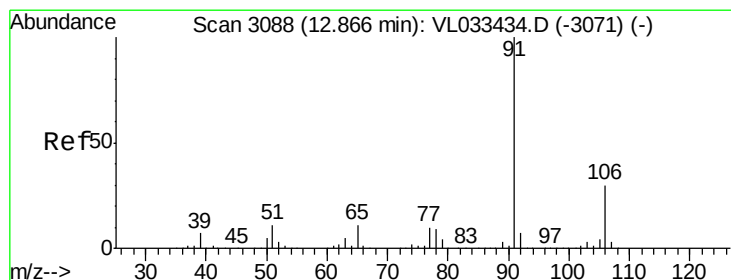
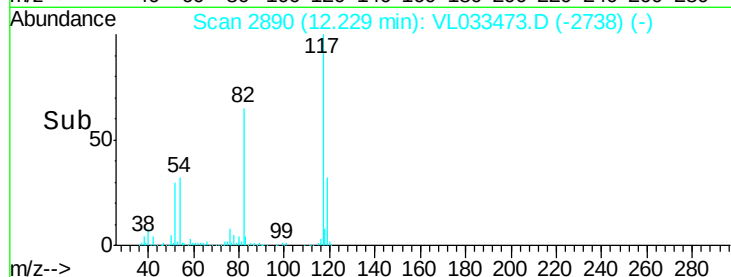
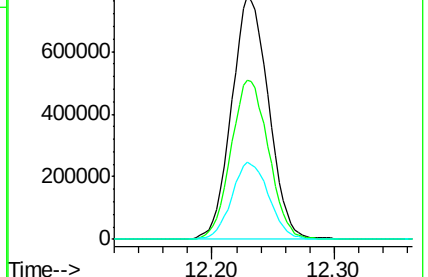
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#58

Ethyl Benzene

Concen: 0.077 ppbv m

RT: 12.86 min Scan# 3086

Delta R.T. -0.01 min

Lab File: VL033473.D

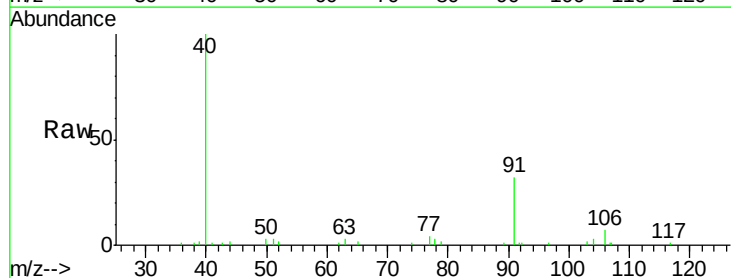
Acq: 27 Mar 2019 18:06

Tgt Ion: 91 Resp: 16831

Ion Ratio Lower Upper

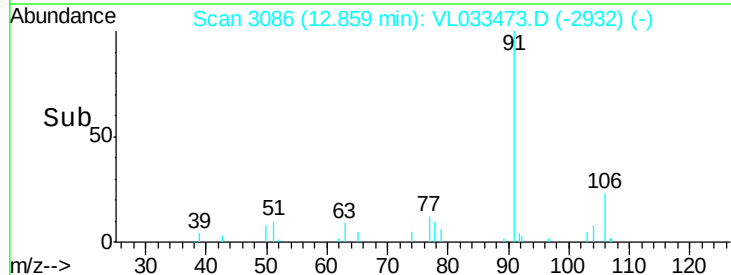
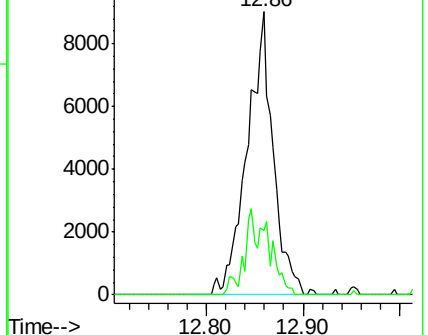
91 100

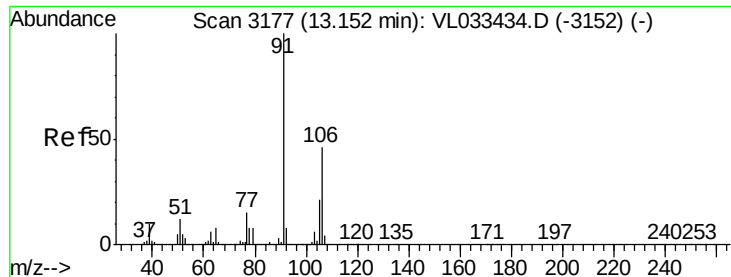
106 22.9 23.8 35.6#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





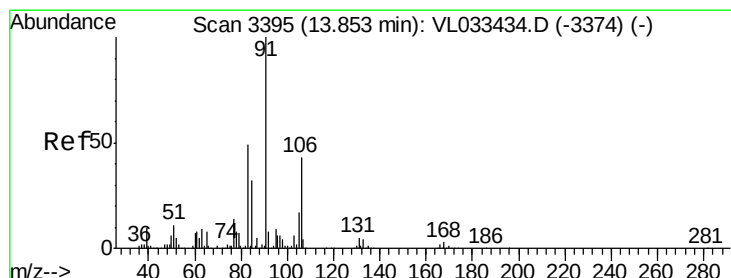
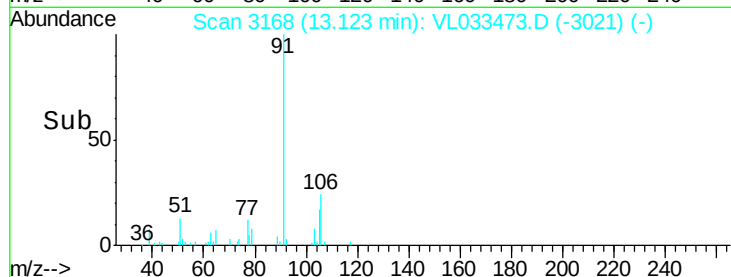
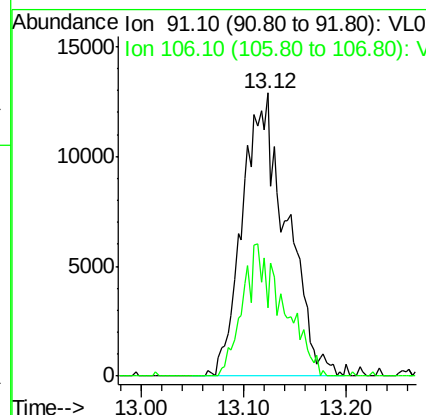
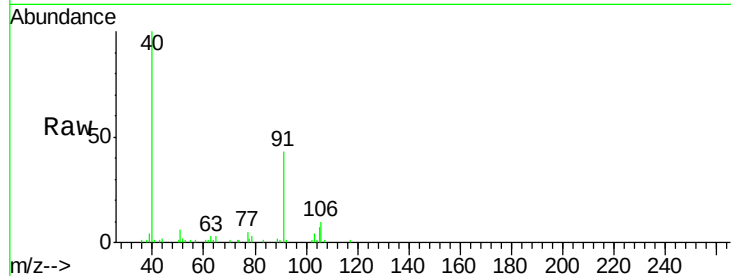
#59
m/p-Xylene
Concen: 0.199 ppbv m
RT: 13.12 min Scan# 3168
Delta R.T. -0.03 min
Lab File: VL033473.D
Acq: 27 Mar 2019 18:06

Instrument :
MSVOA_L
ClientSampleId :
IAS-9-PRE-K-TEACHERS-RMDUP

Tot Ion	Ratio	Lower	Upper
91	100		
106	0.0	0.0	0.0

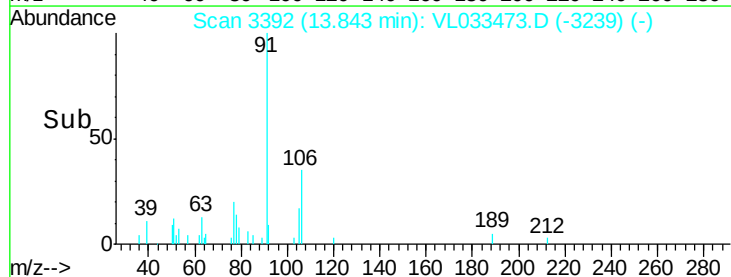
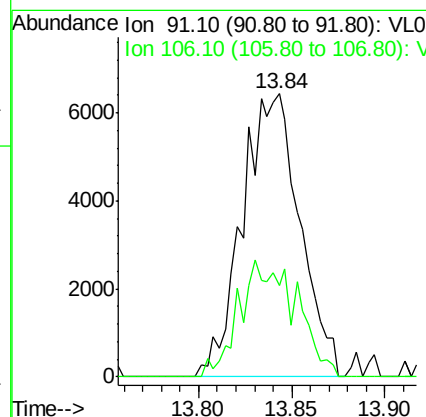
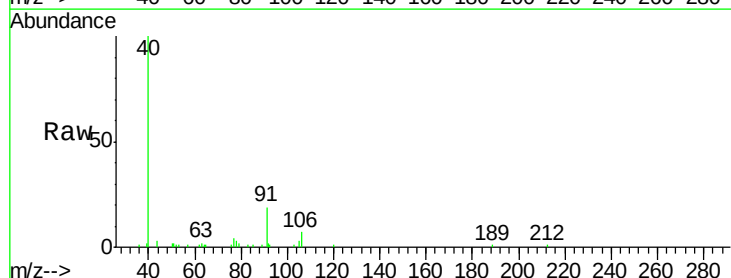
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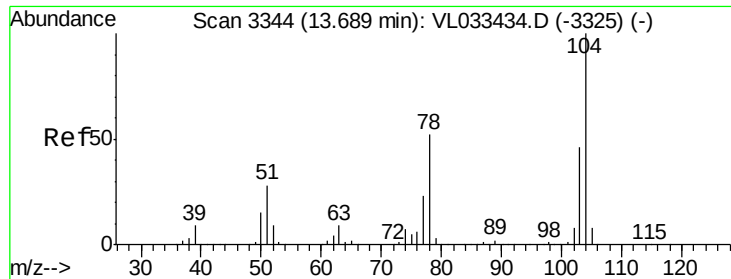
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#60
o-Xylene
Concen: 0.074 ppbv m
RT: 13.84 min Scan# 3392
Delta R.T. -0.01 min
Lab File: VL033473.D
Acq: 27 Mar 2019 18:06

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





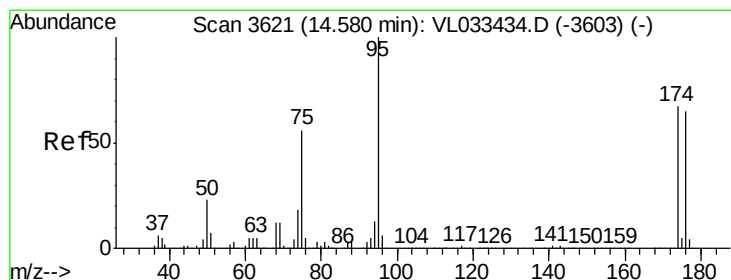
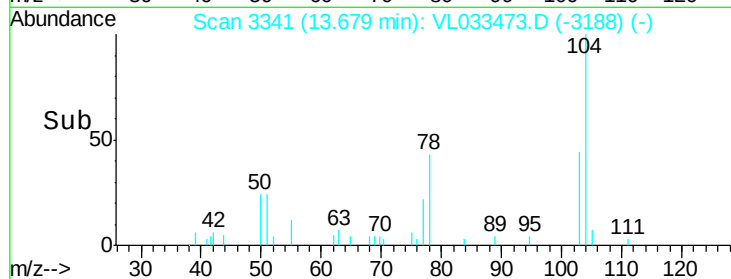
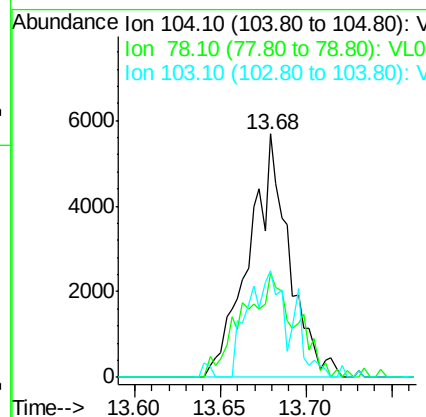
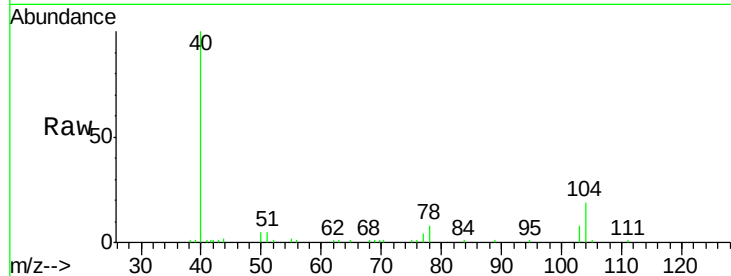
#61
Stvrene
Concen: 0.072 ppbv m
RT: 13.68 min Scan# 3341
Delta R.T. -0.01 min
Lab File: VL033473.D
Acq: 27 Mar 2019 18:06

Instrument :
MSVOA_L
ClientSampleId :
IAS-9-PRE-K-TEACHERS-RMDUP

Tot Ion	Ratio	Lower	Upper
104	100		
78	0.0	43.2	64.8#
103	0.0	37.8	56.8#

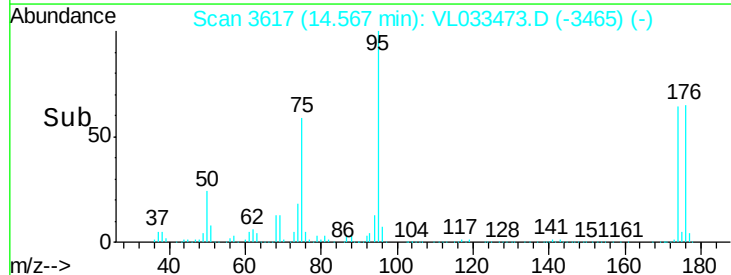
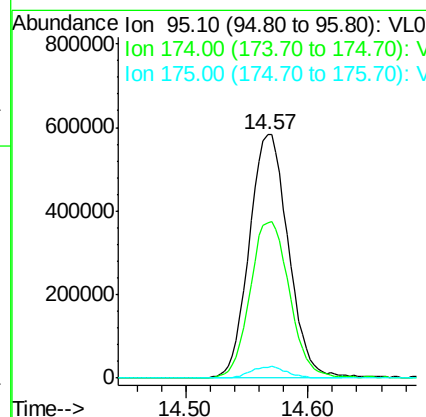
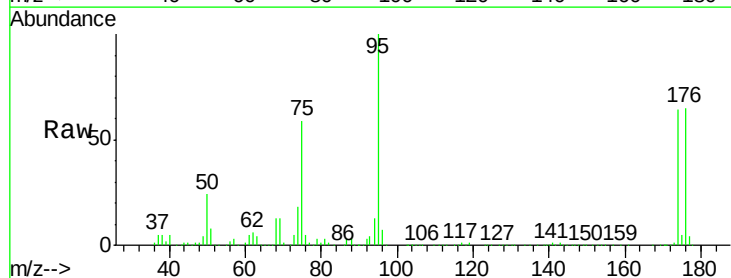
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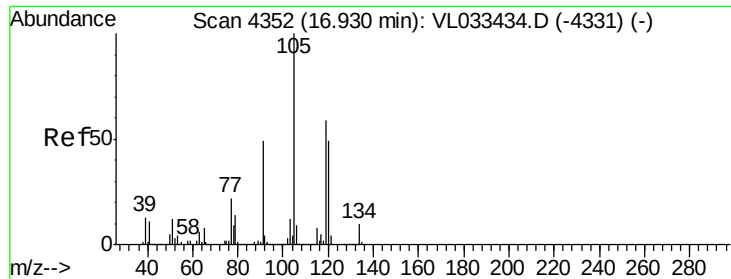
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.048 ppbv
RT: 14.57 min Scan# 3617
Delta R.T. -0.01 min
Lab File: VL033473.D
Acq: 27 Mar 2019 18:06

Tgt Ion	Ratio	Lower	Upper
95	100		
174	65.0	52.9	79.3
175	4.6	3.8	5.6





#74
 1,2,4-Trimethylbenzene
 Concen: 0.071 ppbv m
 RT: 16.91 min Scan# 4347
 Delta R.T. -0.02 min
 Lab File: VL033473.D
 Acq: 27 Mar 2019 18:06

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-9-PRE-K-TEACHERS-RMDUP

Tot Ion:	105	Resp:	15508
Ion Ratio	Lower	Upper	
105	100		
120	29.2	39.0	58.6#
91	18.7	40.0	60.0#
77	15.8	17.5	26.3#

Manual Integrations
 APPROVED

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