

Data File : VL033524.D
Acq On : 30 Mar 2019 5:35
Operator : SY/AP
Sample : K2042-08DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SG-9-PRE-K-TEACHERS-ROOMDL

Quant Time: Mar 30 06:21:35 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 26 16:00:50 2019
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	5.76	49	770351	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1778058	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1791354	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1351308	9.62	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.20%

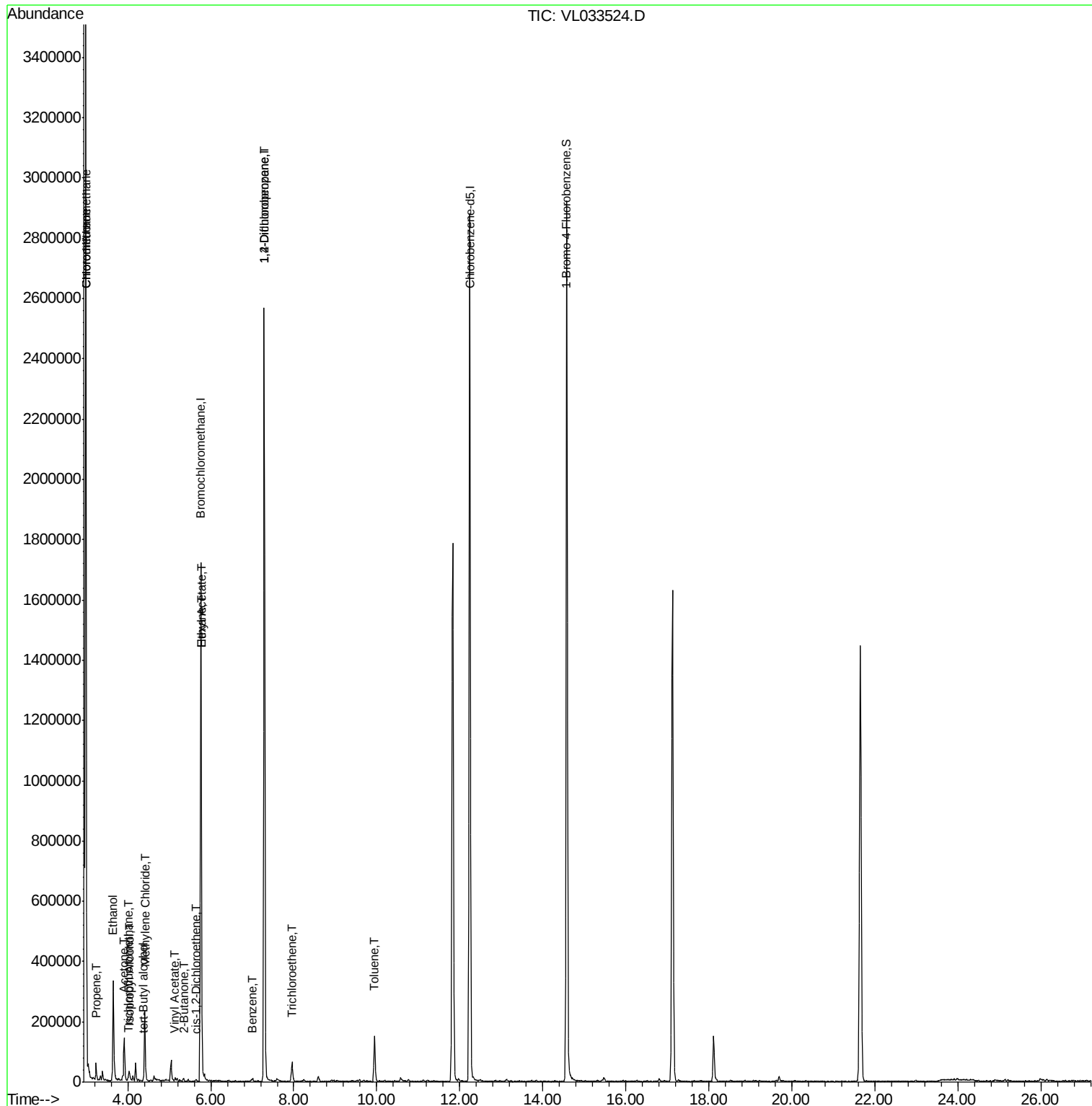
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	2.99	51	2295083	25.878	ppbv #	57
4) Chloromethane	2.99	50	19563	0.417	ppbv #	1
9) Propene	3.24	41	10782	0.289	ppbv	95
11) Trichlorofluoromethane	4.01	101	4605	0.033	ppbv	88
13) Ethanol	3.65	45	329585	34.197	ppbv	66
15) Acetone	3.90	43	146228	1.579	ppbv	98
17) tert-Butyl alcohol	4.37	59	1463	0.086	ppbv #	73
19) Isopropyl Alcohol	4.03	45	32683	0.558	ppbv #	90
20) Methylene Chloride	4.41	84	78414	1.994	ppbv	92
23) Vinyl Acetate	5.15	43	4293	0.033	ppbv #	49
25) Ethyl Acetate	5.78	43	21474	0.125	ppbv #	86
26) Hexane	5.78	57	42227	0.553	ppbv #	41
31) cis-1,2-Dichloroethene	5.64	61	3103	0.041	ppbv	91
34) 2-Butanone	5.34	43	8442	0.079	ppbv #	87
36) Benzene	7.00	78	5481	0.037	ppbv #	74
38) Trichloroethene	7.96	130	17508	0.312	ppbv	88
39) 1,2-Dichloropropane	7.29	63	464879	7.954	ppbv #	24
53) Toluene	9.95	91	110891	0.640	ppbv	99

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

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QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

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MSVOA_L

ClientSampleId :

SG-9-PRE-K-TEACHERS-ROOMDL

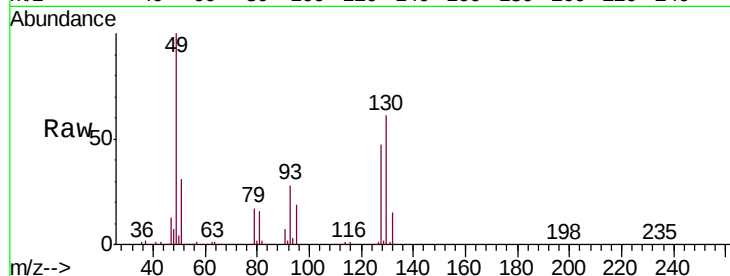
Tgt Ion: 49 Resp: 770351

Ion Ratio Lower Upper

49 100

128 49.4 24.0 72.0

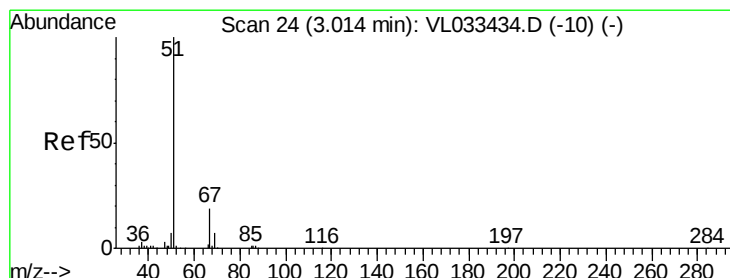
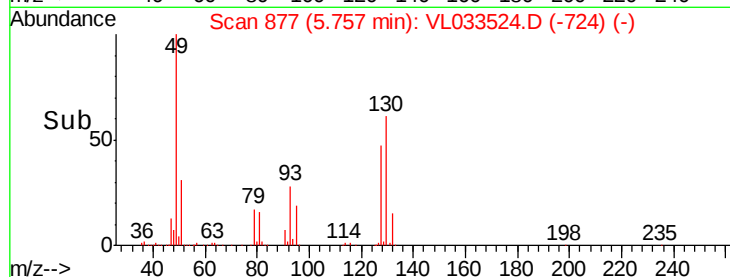
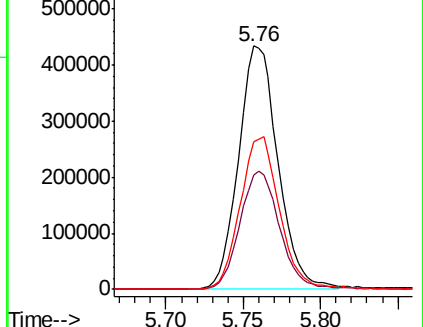
130 63.0 31.2 93.6



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: 25.878 ppbv

RT: 2.99 min Scan# 16

Delta R.T. -0.03 min

Lab File: VL033524.D

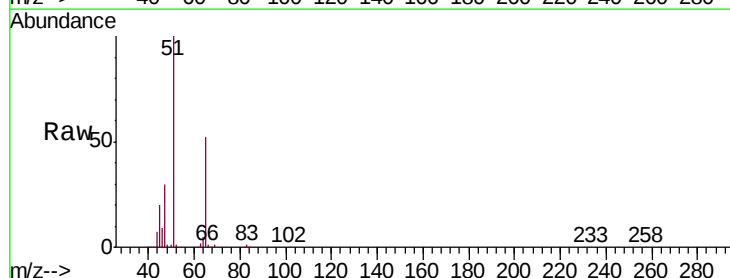
Acq: 30 Mar 2019 5:35

Tgt Ion: 51 Resp: 2295083

Ion Ratio Lower Upper

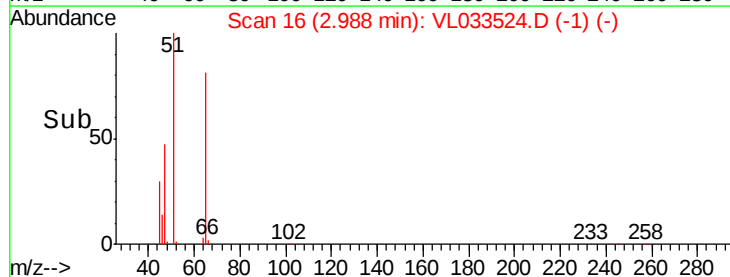
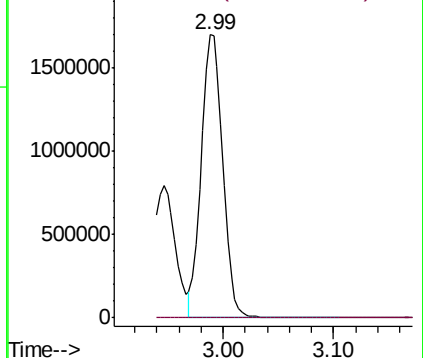
51 100

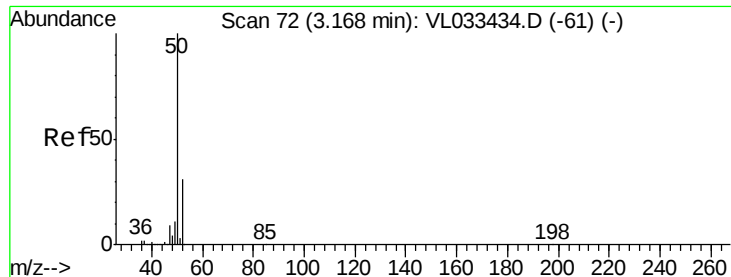
67 0.1 15.7 23.5#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.417 ppbv

RT: 2.99 min Scan# 17

Delta R.T. -0.18 min

Lab File: VL033524.D

Acq: 30 Mar 2019 5:35

Instrument :

MSVOA_L

ClientSampleId :

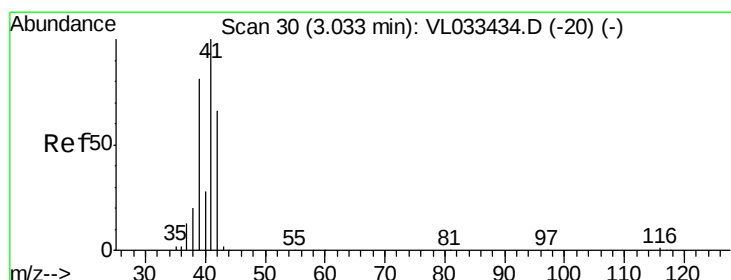
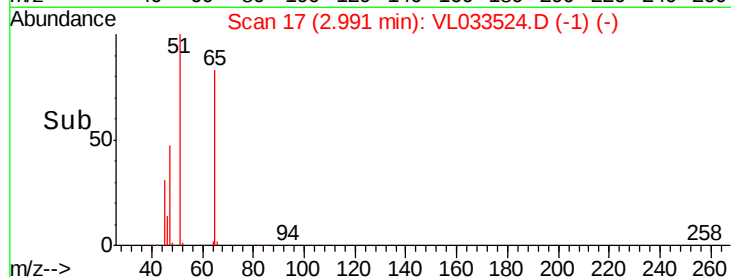
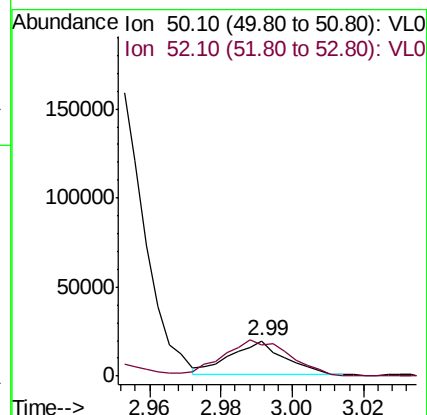
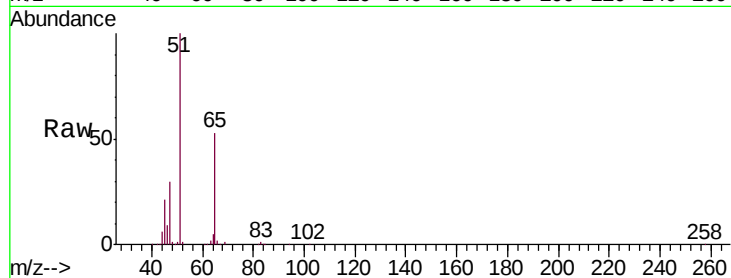
SG-9-PRE-K-TEACHERS-ROOMDL

Tgt Ion: 50 Resp: 19563

Ion Ratio Lower Upper

50 100

52 92.6 25.0 37.6#



#9

Propene

Concen: 0.289 ppbv

RT: 3.24 min Scan# 94

Delta R.T. 0.21 min

Lab File: VL033524.D

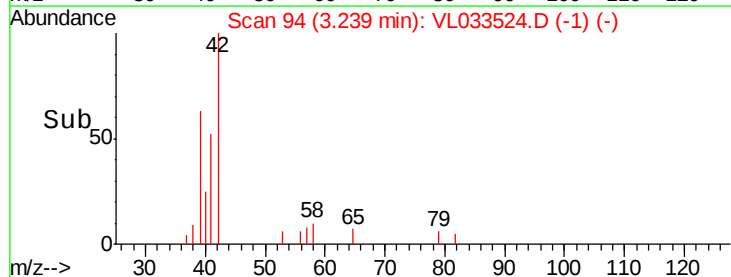
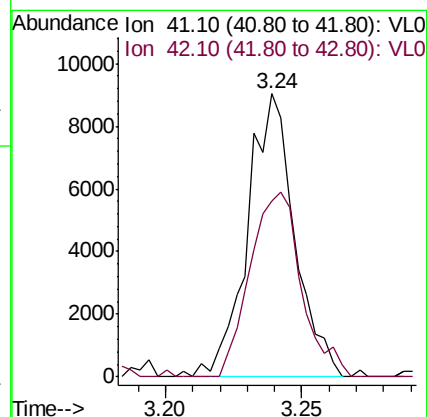
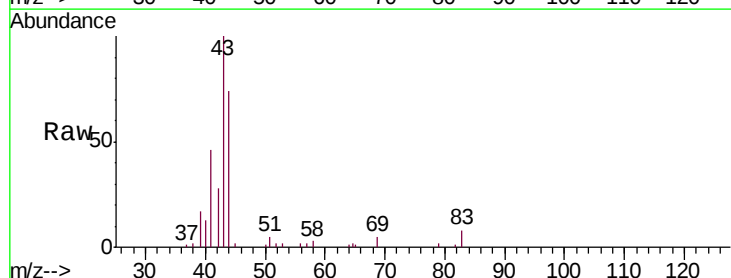
Acq: 30 Mar 2019 5:35

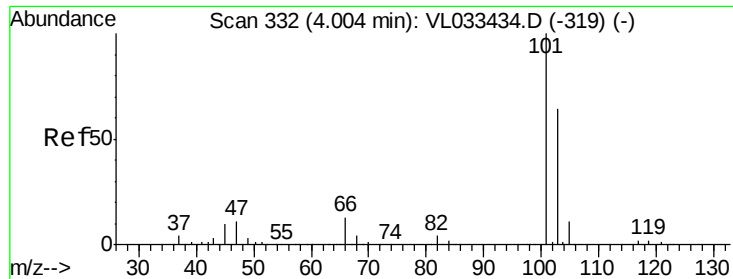
Tgt Ion: 41 Resp: 10782

Ion Ratio Lower Upper

41 100

42 71.3 53.9 80.9

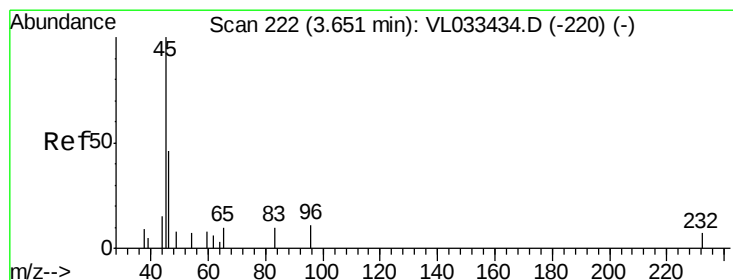
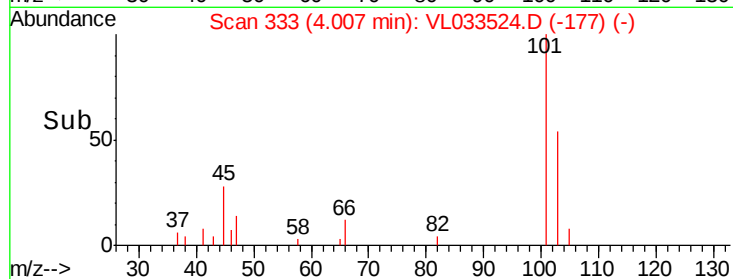
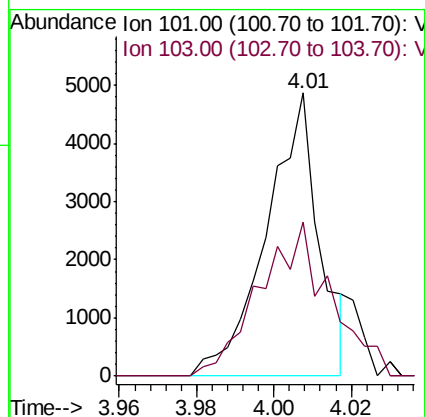
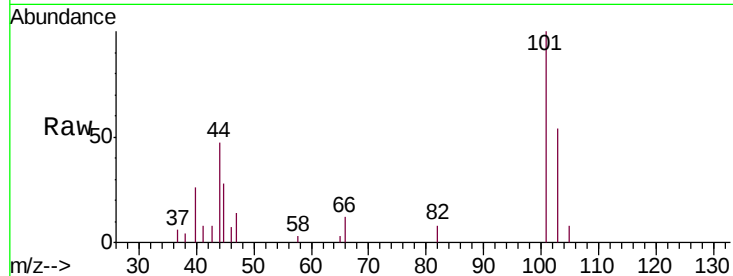




#11
 Trichlorofluoromethane
 Concen: 0.033 ppbv
 RT: 4.01 min Scan# 333
 Delta R.T. 0.00 min
 Lab File: VL033524.D
 Acq: 30 Mar 2019 5:35

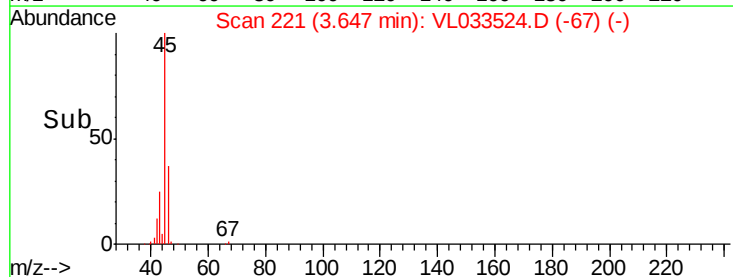
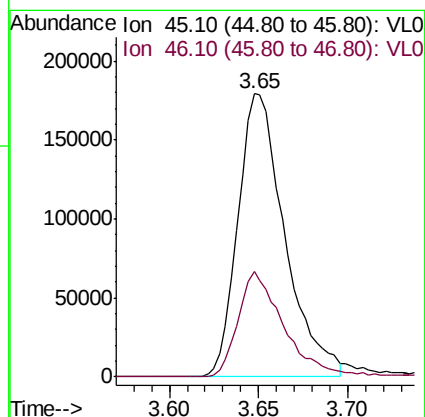
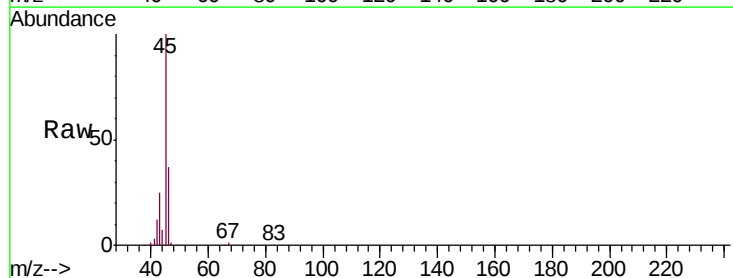
Instrument :
 MSVOA_L
 ClientSampleId :
 SG-9-PRE-K-TEACHERS-ROOMDL

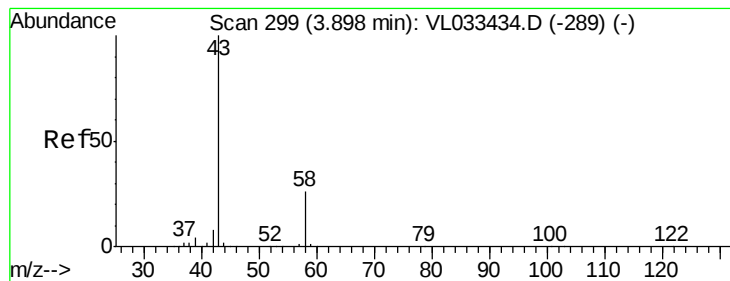
Tgt Ion: 101 Resp: 4605
 Ion Ratio Lower Upper
 101 100
 103 54.5 51.3 76.9



#13
 Ethanol
 Concen: 34.197 ppbv
 RT: 3.65 min Scan# 221
 Delta R.T. -0.00 min
 Lab File: VL033524.D
 Acq: 30 Mar 2019 5:35

Tgt Ion: 45 Resp: 329585
 Ion Ratio Lower Upper
 45 100
 46 36.9 25.4 101.8





#15

Acetone

Concen: 1.579 ppbv

RT: 3.90 min Scan# 301

Delta R.T. 0.01 min

Lab File: VL033524.D

Acq: 30 Mar 2019 5:35

Instrument :

MSVOA_L

ClientSampleId :

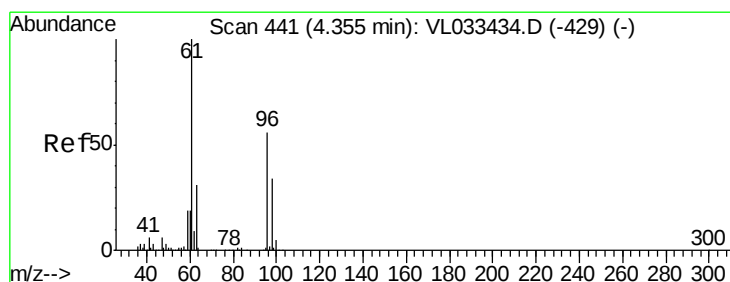
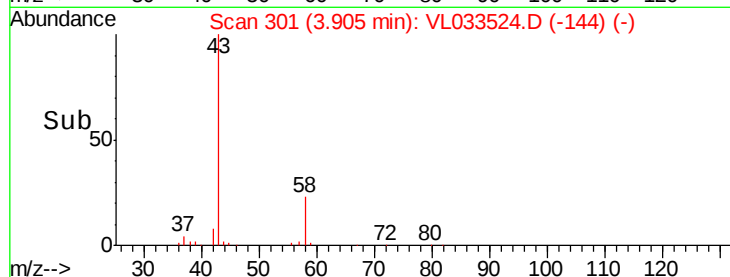
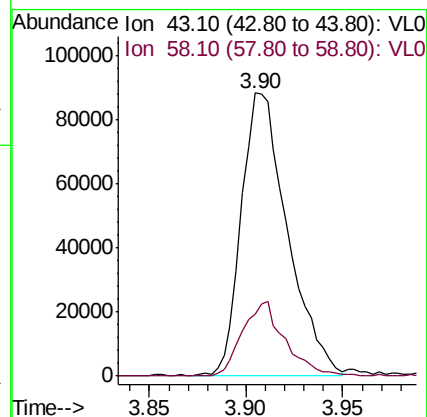
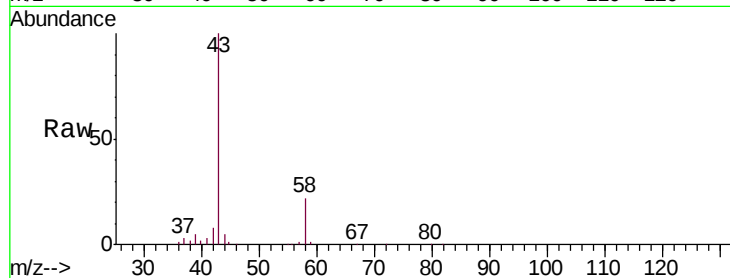
SG-9-PRE-K-TEACHERS-ROOMDL

Tgt Ion: 43 Resp: 146228

Ion Ratio Lower Upper

43 100

58 24.6 20.5 30.7



#17

tert-Butyl alcohol

Concen: 0.086 ppbv

RT: 4.37 min Scan# 446

Delta R.T. 0.02 min

Lab File: VL033524.D

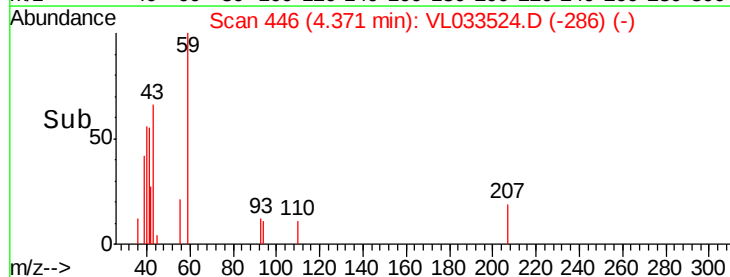
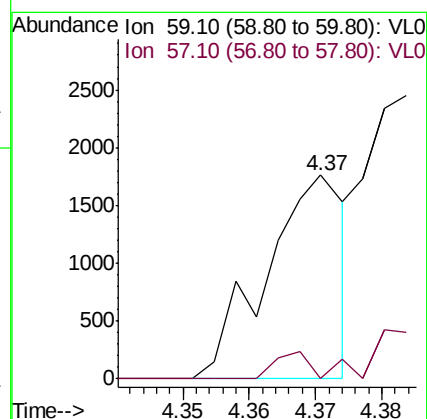
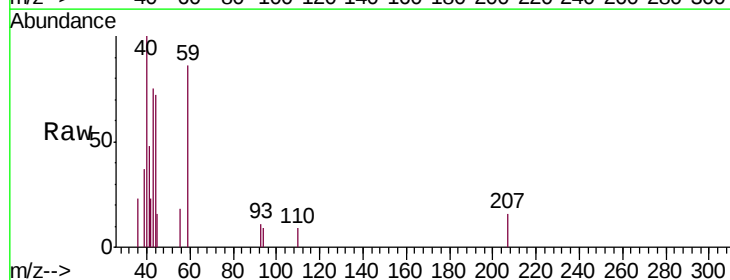
Acq: 30 Mar 2019 5:35

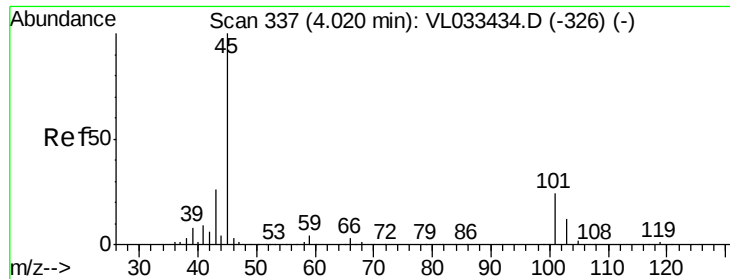
Tgt Ion: 59 Resp: 1463

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#





#19

Isopropyl Alcohol

Concen: 0.558 ppbv

RT: 4.03 min Scan# 341

Delta R.T. 0.01 min

Lab File: VL033524.D

Acq: 30 Mar 2019 5:35

Instrument :

MSVOA_L

ClientSampleId :

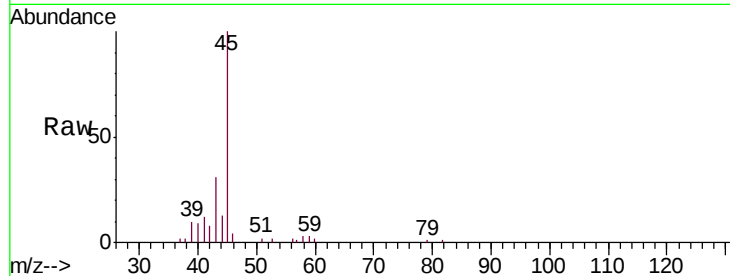
SG-9-PRE-K-TEACHERS-ROOMDL

Tgt Ion: 45 Resp: 32683

Ion Ratio Lower Upper

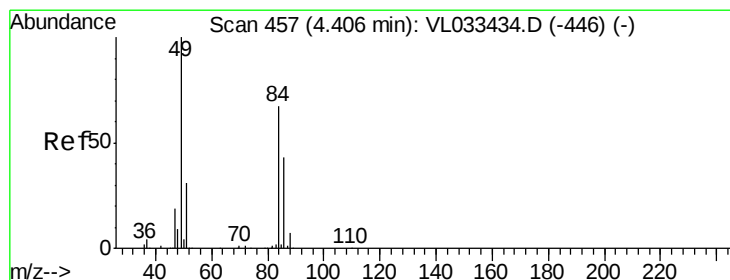
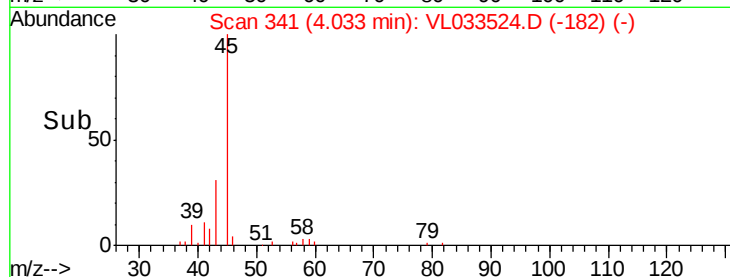
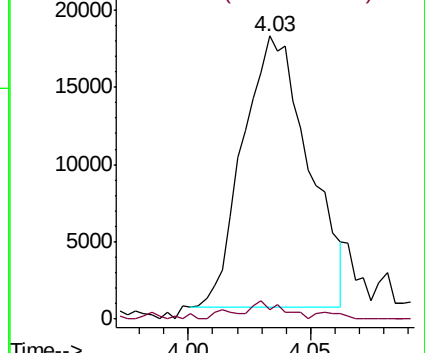
45 100

58 5.3 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: 1.994 ppbv

RT: 4.41 min Scan# 459

Delta R.T. 0.01 min

Lab File: VL033524.D

Acq: 30 Mar 2019 5:35

Tgt Ion: 84 Resp: 78414

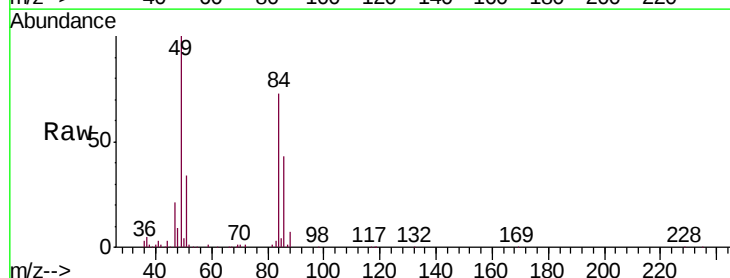
Ion Ratio Lower Upper

84 100

49 137.9 120.0 180.0

51 46.8 36.7 55.1

86 59.0 51.9 77.9

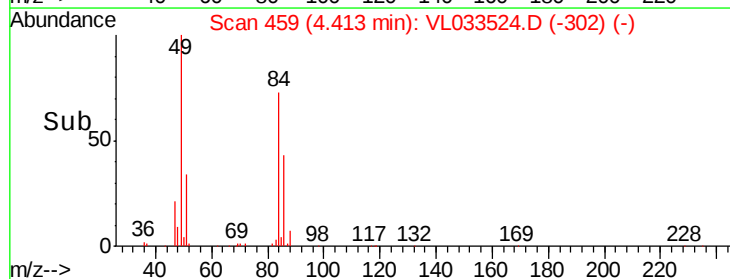
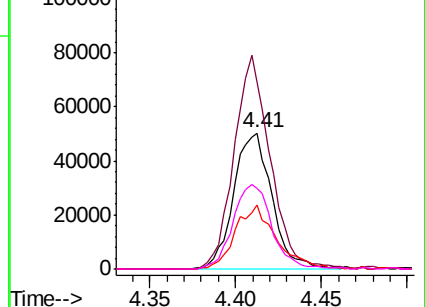


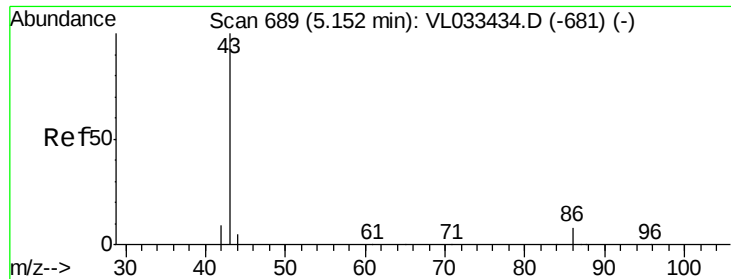
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





#23

Vinyl Acetate

Concen: 0.033 ppbv

RT: 5.15 min Scan# 687

Delta R.T. -0.01 min

Lab File: VL033524.D

Acq: 30 Mar 2019 5:35

Instrument :

MSVOA_L

ClientSampleId :

SG-9-PRE-K-TEACHERS-ROOMDL

Tgt Ion: 43 Resp: 4293

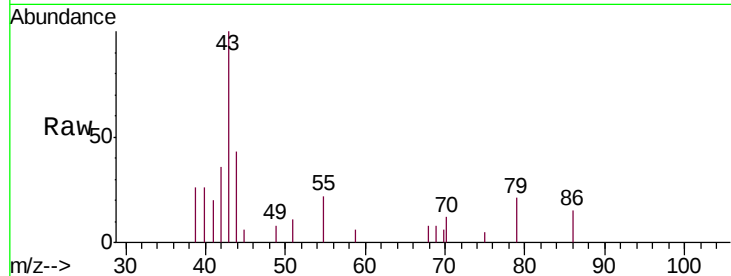
Ion Ratio Lower Upper

43 100

86 21.7 5.6 8.4#

42 39.2 8.0 12.0#

44 6.4 3.9 5.9#

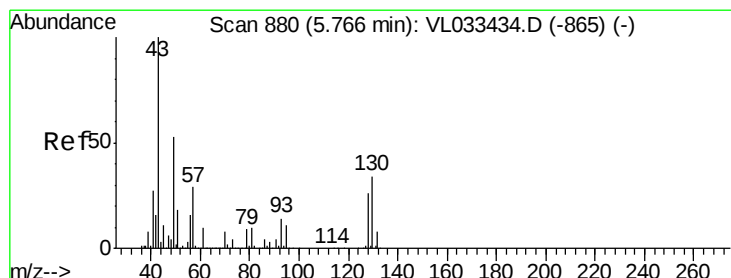
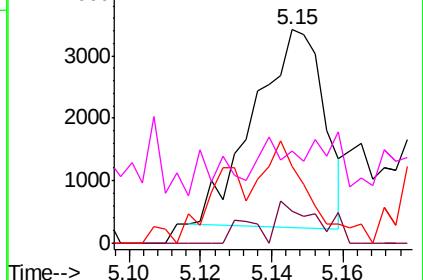
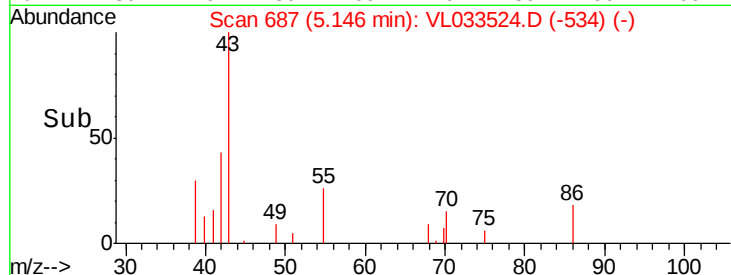


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 0.125 ppbv

RT: 5.78 min Scan# 884

Delta R.T. 0.01 min

Lab File: VL033524.D

Acq: 30 Mar 2019 5:35

Tgt Ion: 43 Resp: 21474

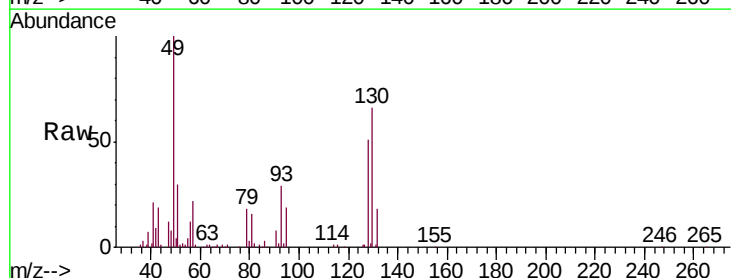
Ion Ratio Lower Upper

43 100

45 3.6 7.8 11.6#

61 3.1 7.3 10.9#

70 5.0 5.6 8.4#

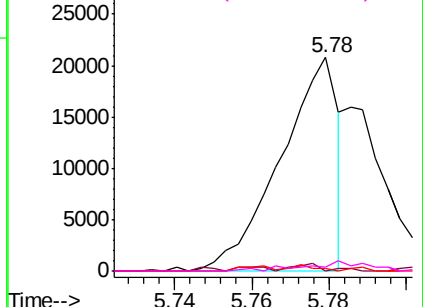
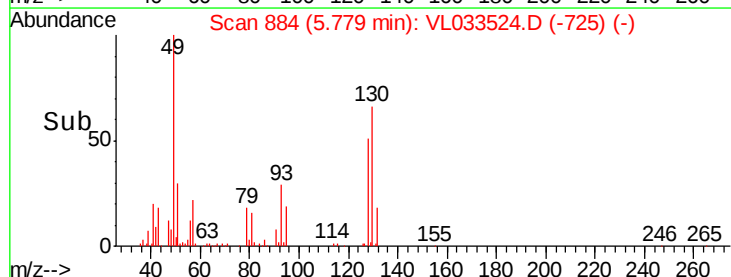


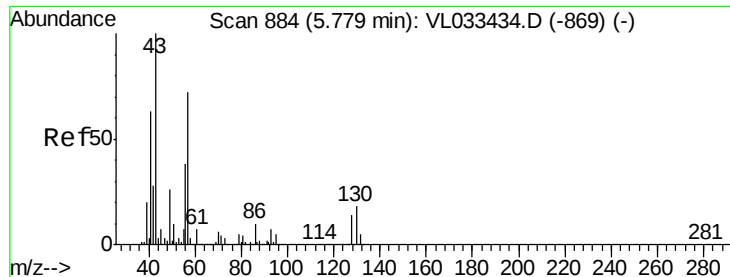
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0

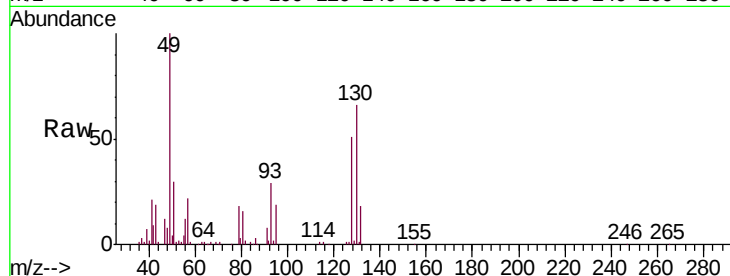




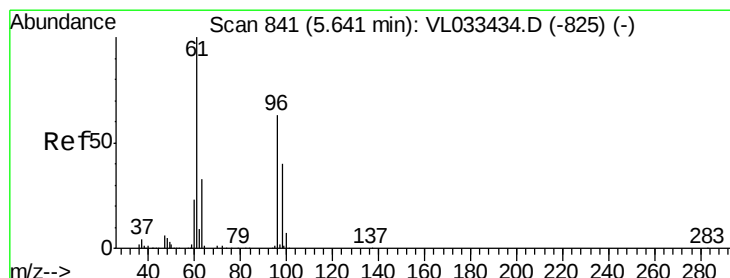
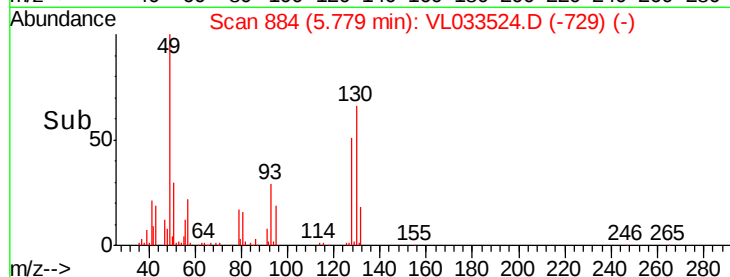
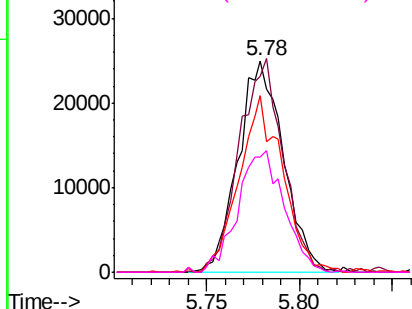
#26
Hexane
Concen: 0.553 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033524.D
Acq: 30 Mar 2019 5:35

Instrument :
MSVOA_L
ClientSampleId :
SG-9-PRE-K-TEACHERS-ROOMDL

Tgt Ion: 57 Resp: 42227
Ion Ratio Lower Upper
57 100
41 98.1 70.7 106.1
43 81.3 182.6 274.0#
56 59.0 42.0 63.0

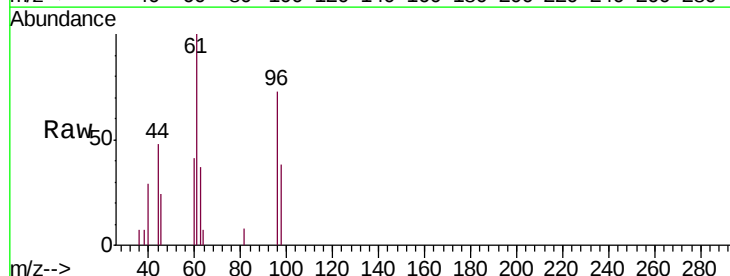


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

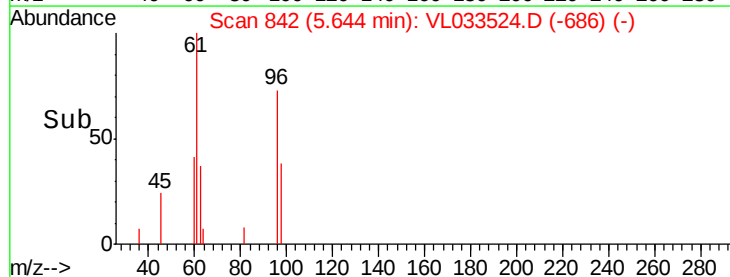
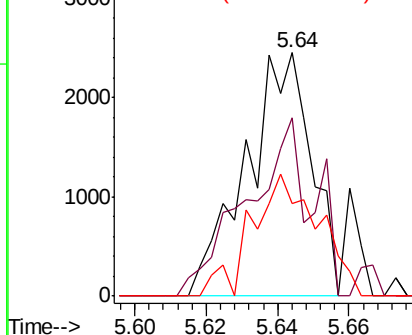


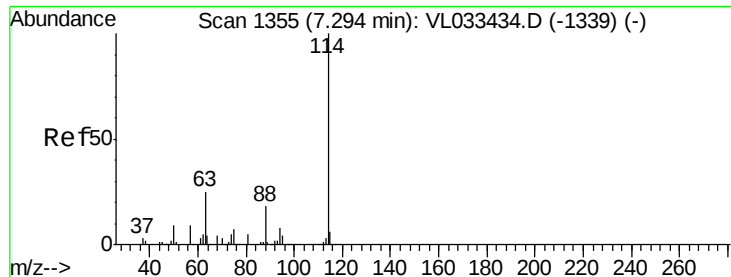
#31
cis-1,2-Dichloroethene
Concen: 0.041 ppbv
RT: 5.64 min Scan# 842
Delta R.T. 0.00 min
Lab File: VL033524.D
Acq: 30 Mar 2019 5:35

Tgt Ion: 61 Resp: 3103
Ion Ratio Lower Upper
61 100
96 73.0 50.6 76.0
98 38.1 32.2 48.2



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0

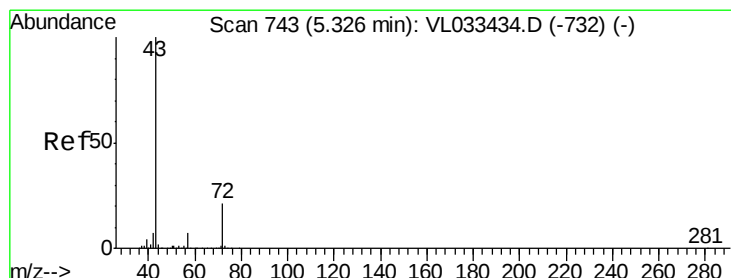
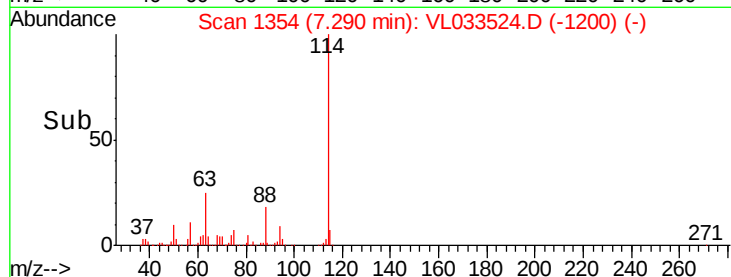
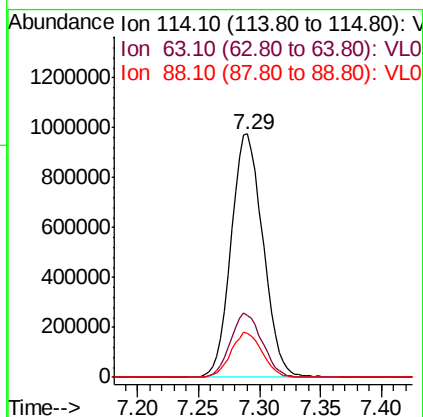
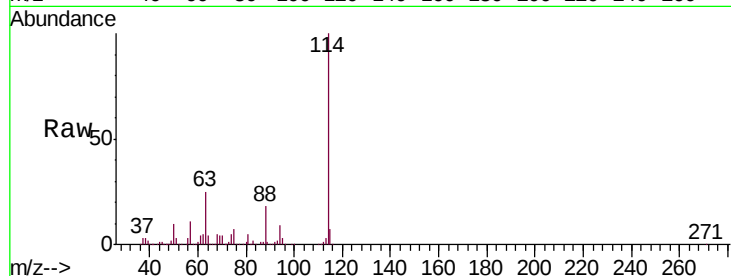




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.00 min
 Lab File: VL033524.D
 Acq: 30 Mar 2019 5:35

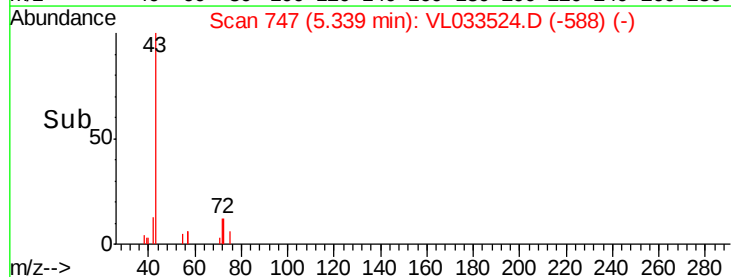
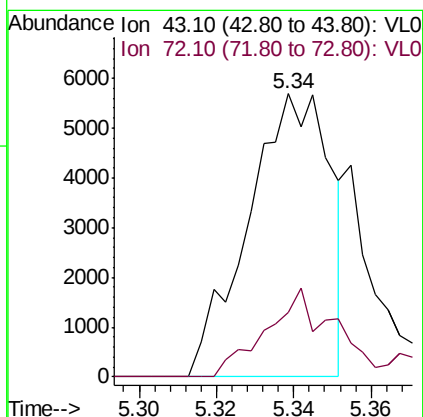
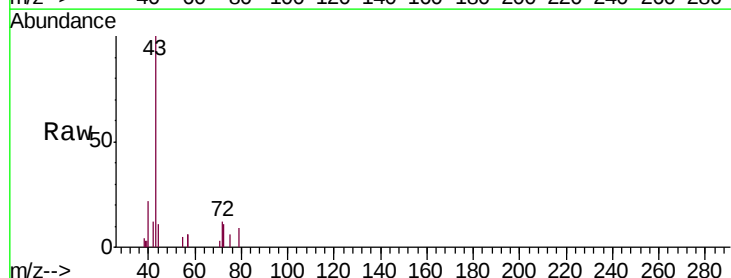
Instrument :
 MSVOA_L
 ClientSampleId :
 SG-9-PRE-K-TEACHERS-ROOMDL

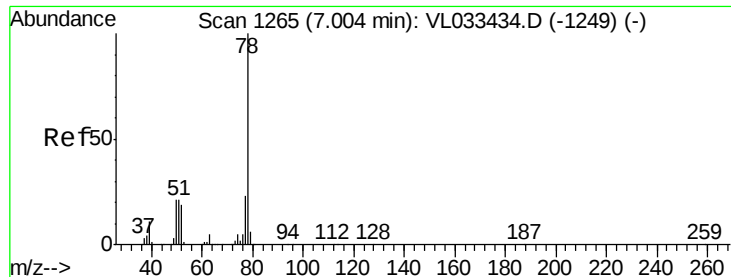
Tgt Ion:114 Resp: 1778058
 Ion Ratio Lower Upper
 114 100
 63 26.4 21.5 32.3
 88 18.1 14.5 21.7



#34
 2-Butanone
 Concen: 0.079 ppbv
 RT: 5.34 min Scan# 747
 Delta R.T. 0.01 min
 Lab File: VL033524.D
 Acq: 30 Mar 2019 5:35

Tgt Ion: 43 Resp: 8442
 Ion Ratio Lower Upper
 43 100
 72 27.9 17.4 26.2#





#36

Benzene

Concen: 0.037 ppbv

RT: 7.00 min Scan# 1265

Delta R.T. -0.00 min

Lab File: VL033524.D

Acq: 30 Mar 2019 5:35

Instrument :

MSVOA_L

ClientSampleId :

SG-9-PRE-K-TEACHERS-ROOMDL

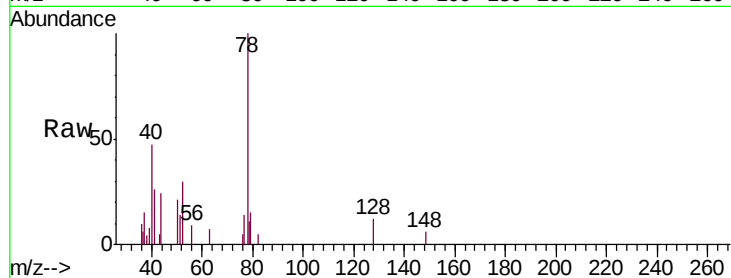
Tgt Ion: 78 Resp: 5481

Ion Ratio Lower Upper

78 100

77 0.0 18.1 27.1#

50 18.9 16.7 25.1

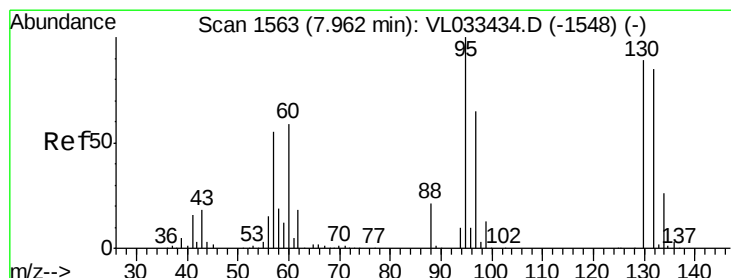
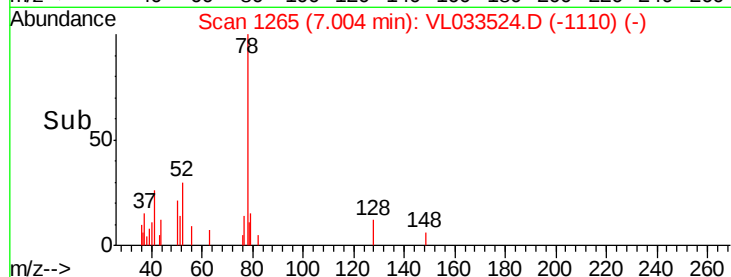
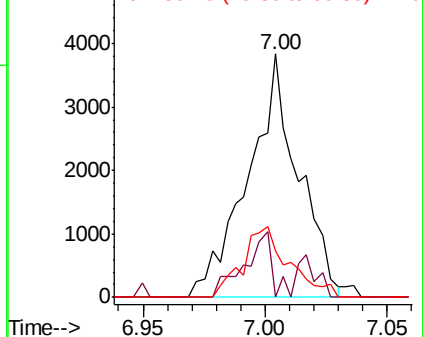


Abundance

Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#38

Trichloroethene

Concen: 0.312 ppbv

RT: 7.96 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VL033524.D

Acq: 30 Mar 2019 5:35

Tgt Ion: 130 Resp: 17508

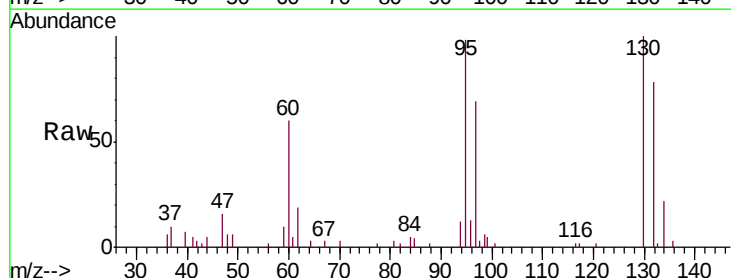
Ion Ratio Lower Upper

130 100

95 98.1 89.8 134.8

132 79.4 76.6 115.0

97 71.7 58.6 88.0



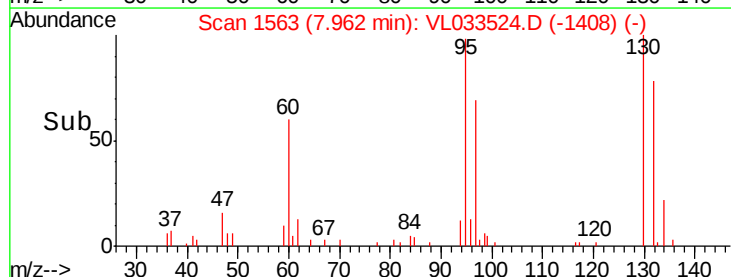
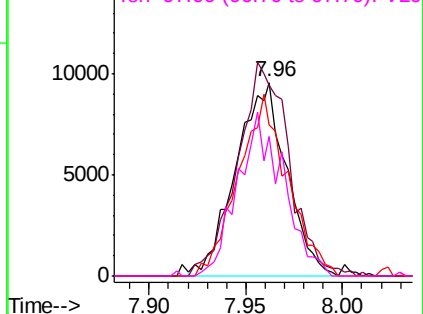
Abundance

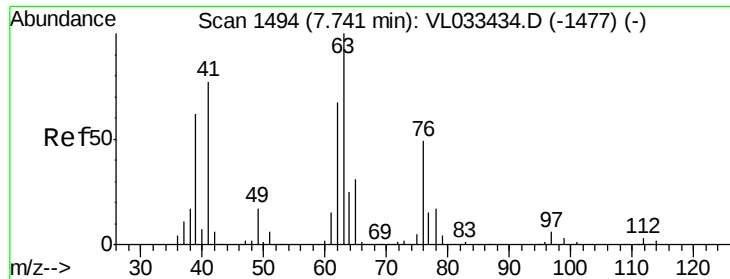
Ion 130.00 (129.70 to 130.70): VL0

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): VL0

Ion 97.00 (96.70 to 97.70): VL0

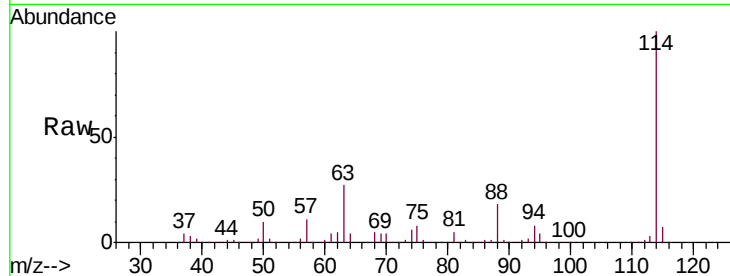




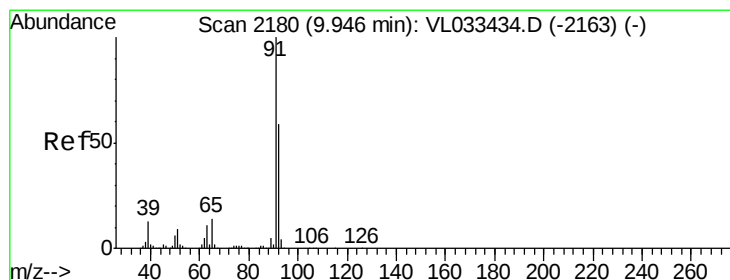
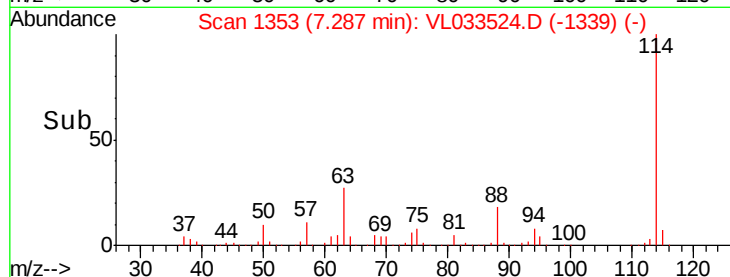
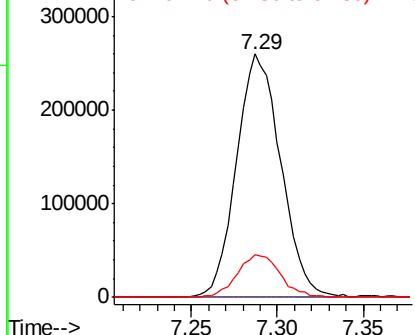
#39
 1,2-Dichloropropane
 Concen: 7.954 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.45 min
 Lab File: VL033524.D
 Acq: 30 Mar 2019 5:35

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-9-PRE-K-TEACHERS-ROOMDL

Tgt Ion: 63 Resp: 464879
 Ion Ratio Lower Upper
 63 100
 41 0.2 61.2 91.8#
 62 17.3 54.0 81.0#

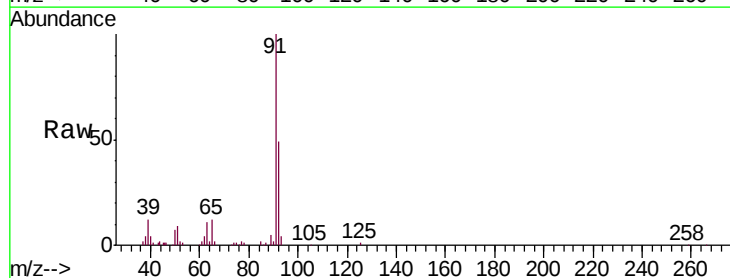


Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0

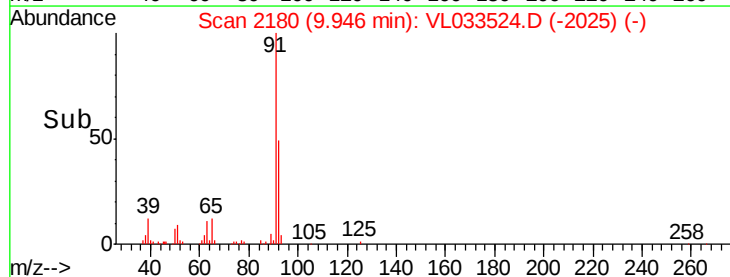
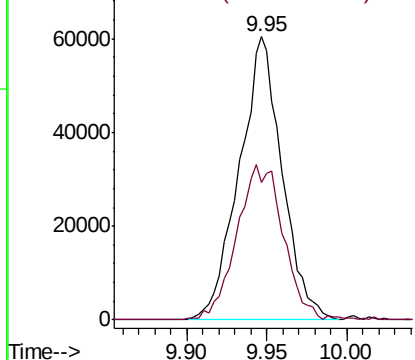


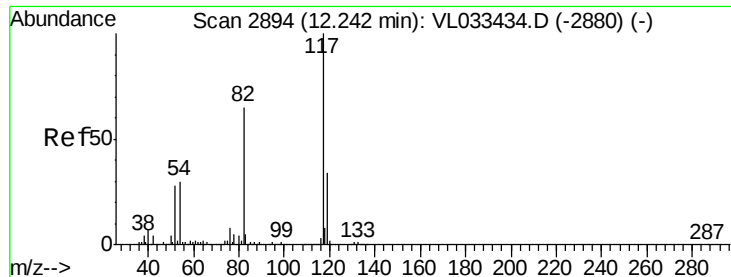
#53
 Toluene
 Concen: 0.640 ppbv
 RT: 9.95 min Scan# 2180
 Delta R.T. -0.00 min
 Lab File: VL033524.D
 Acq: 30 Mar 2019 5:35

Tgt Ion: 91 Resp: 110891
 Ion Ratio Lower Upper
 91 100
 92 59.7 47.4 71.0



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0

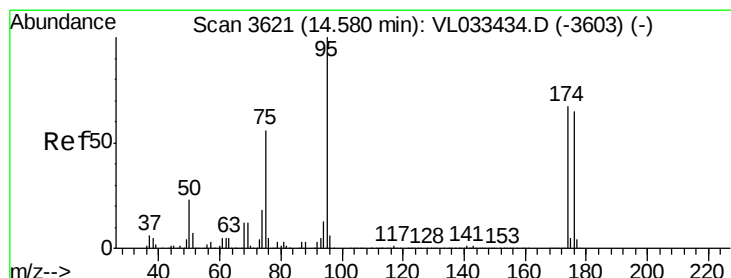
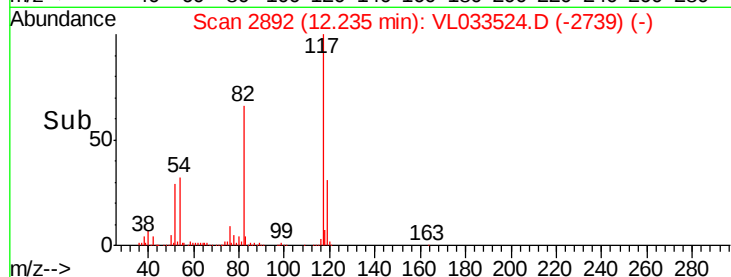
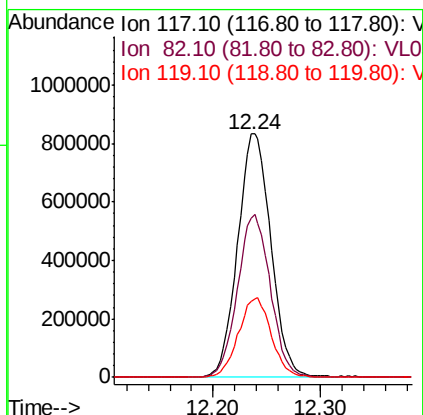
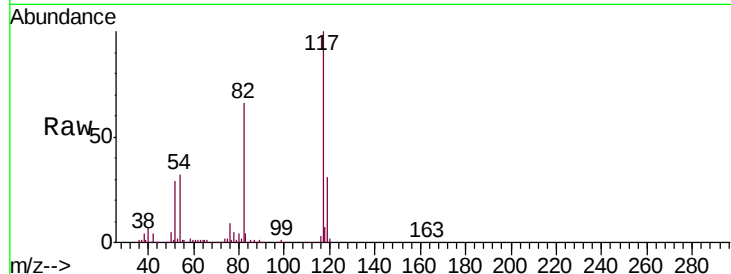




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL033524.D
Acq: 30 Mar 2019 5:35

Instrument :
MSVOA_L
ClientSampleId :
SG-9-PRE-K-TEACHERS-ROOMDL

Tgt Ion: 117 Resp: 1791354
Ion Ratio Lower Upper
117 100
82 66.2 51.5 77.3
119 32.3 25.5 38.3



#68
1-Bromo-4-Fluorobenzene
Concen: 9.622 ppbv
RT: 14.58 min Scan# 3620
Delta R.T. -0.00 min
Lab File: VL033524.D
Acq: 30 Mar 2019 5:35

Tgt Ion: 95 Resp: 1351308
Ion Ratio Lower Upper
95 100
174 66.5 52.9 79.3
175 4.7 3.8 5.6

