

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032019\
 Data File : VL033417.D
 Acq On : 21 Mar 2019 10:52
 Operator : SY/AP
 Sample : K1975-05DL2 100X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Quant Time: Mar 21 12:44:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 14:52:14 2019
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	800163	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1825823	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1745279	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1346985	10.42	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.20%

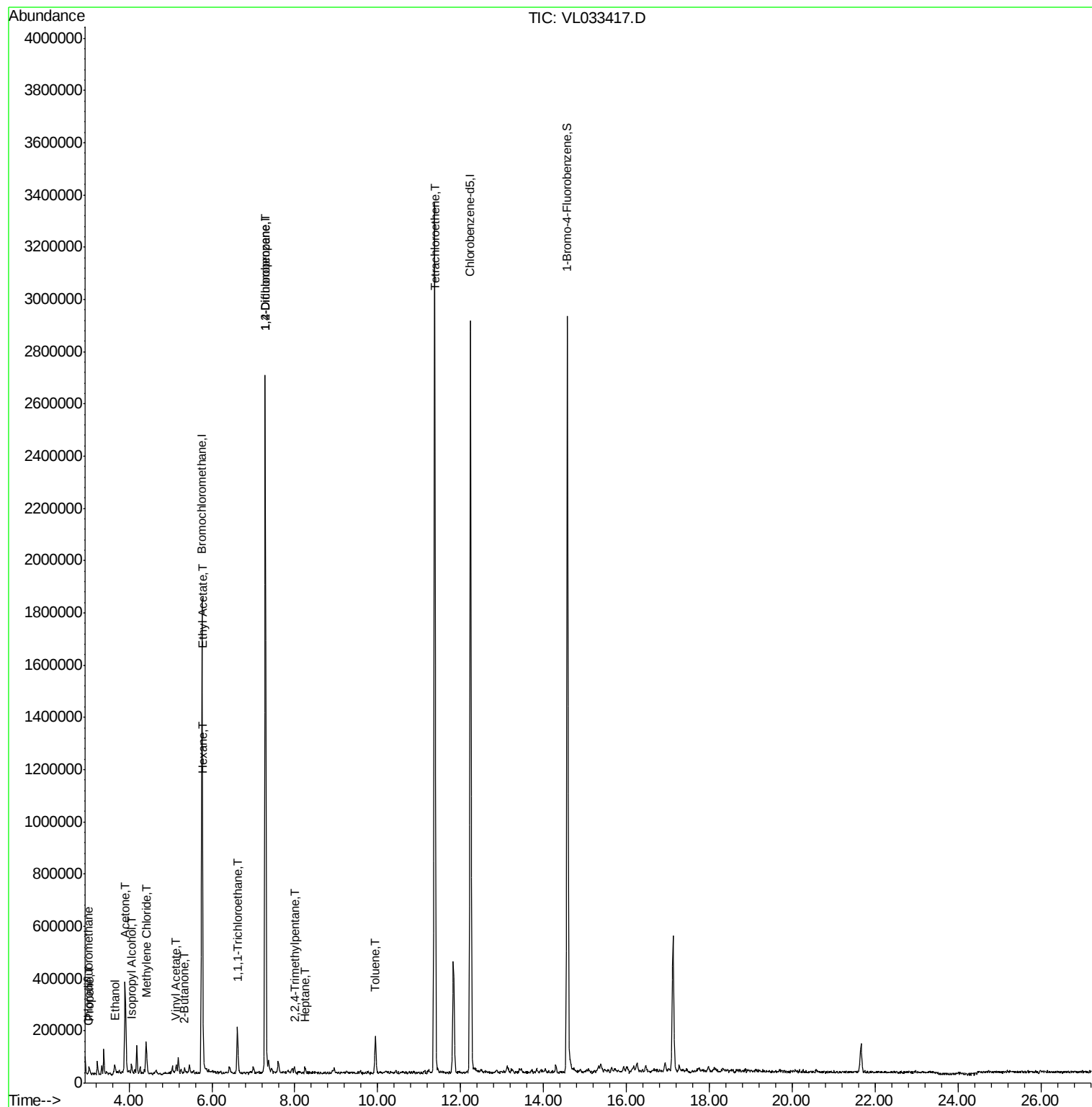
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	3.02	51	3060	0.033	ppbv	100
9) Propene	3.04	41	7222	0.176	ppbv	93
10) Heptane	8.25	43	3892	0.038	ppbv #	27
13) Ethanol	3.66	45	29321	1.500	ppbv	97
15) Acetone	3.90	43	386882	3.110	ppbv	97
19) Isopropyl Alcohol	4.05	45	4350	0.074	ppbv #	95
20) Methylene Chloride	4.41	84	39927	0.984	ppbv #	93
23) Vinyl Acetate	5.13	43	10837	0.075	ppbv #	9
25) Ethyl Acetate	5.78	43	24741	0.137	ppbv #	79
26) Hexane	5.78	57	31095	0.385	ppbv #	39
32) 1,1,1-Trichloroethane	6.62	97	104522	0.804	ppbv	95
34) 2-Butanone	5.34	43	9437	0.079	ppbv #	53
39) 1,2-Dichloropropane	7.29	63	488598	7.985	ppbv #	25
44) 2,2,4-Trimethylpentane	7.99	57	10735	0.040	ppbv #	44
52) Tetrachloroethene	11.37	164	808455	11.876	ppbv	98
53) Toluene	9.94	91	101698	0.548	ppbv	98

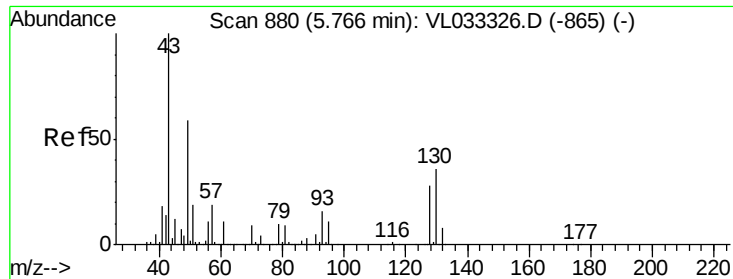
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL032019\
Data File : VL033417.D
Acq On : 21 Mar 2019 10:52
Operator : SY/AP
Sample : K1975-05DL2 100X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Quant Time: Mar 21 12:44:19 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL031519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 14:52:14 2019
QLast Update : Fri Mar 15 14:52:14 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.01 min

Lab File: VL033417.D

Acq: 21 Mar 2019 10:52

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

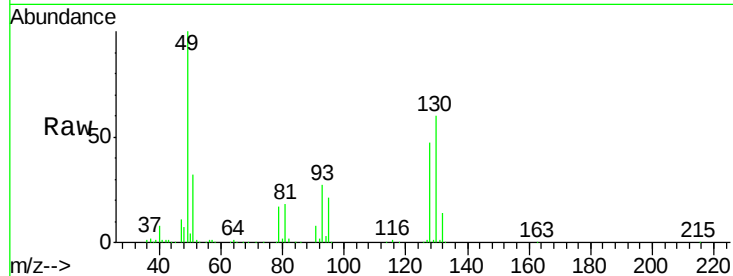
Tgt Ion: 49 Resp: 800163

Ion Ratio Lower Upper

49 100

128 48.1 23.5 70.6

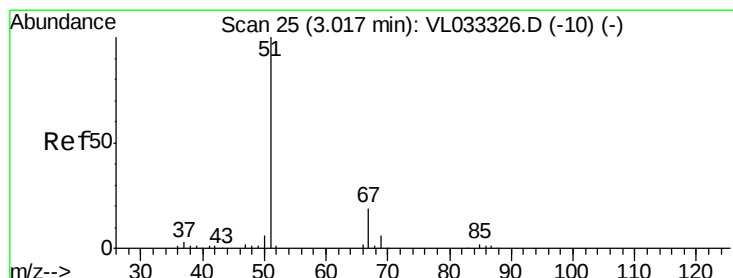
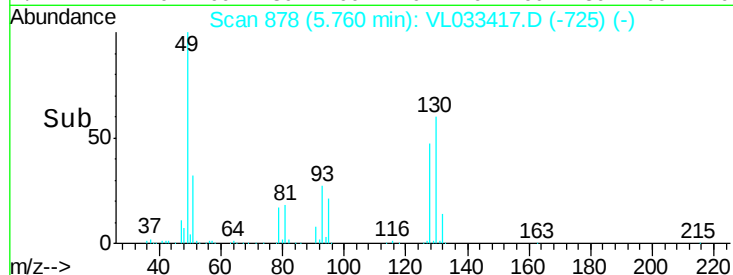
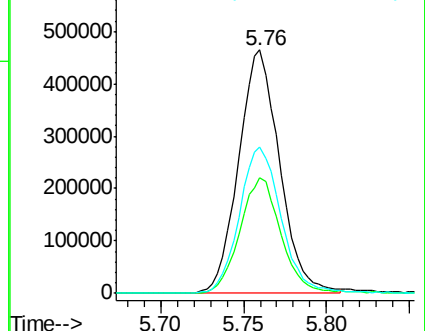
130 61.0 30.1 90.3



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: 0.033 ppbv

RT: 3.02 min Scan# 25

Delta R.T. -0.00 min

Lab File: VL033417.D

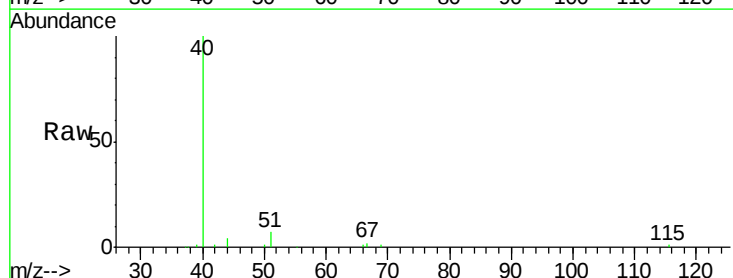
Acq: 21 Mar 2019 10:52

Tgt Ion: 51 Resp: 3060

Ion Ratio Lower Upper

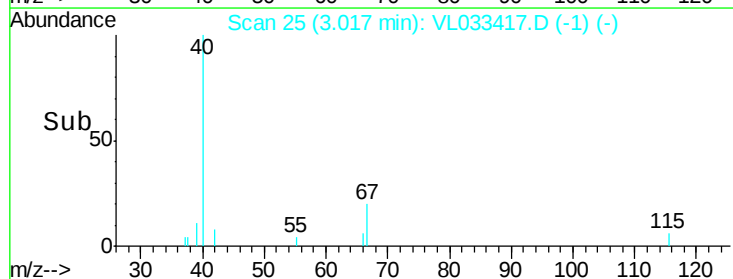
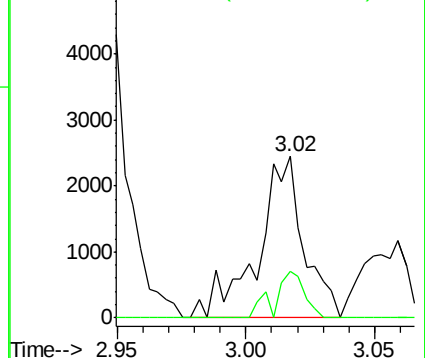
51 100

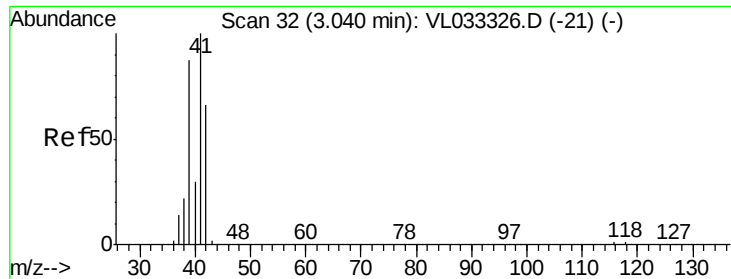
67 18.6 14.9 22.3



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.176 ppbv

RT: 3.04 min Scan# 32

Delta R.T. -0.00 min

Lab File: VL033417.D

Acq: 21 Mar 2019 10:52

Instrument :

MSVOA_L

ClientSampleId :

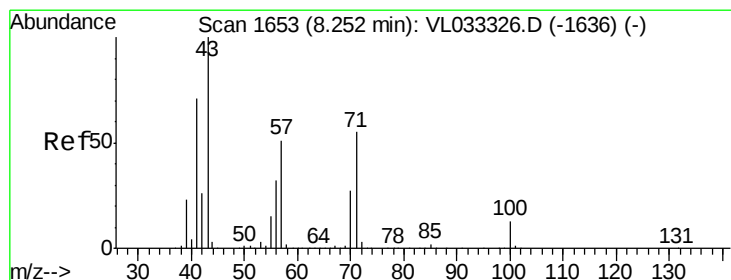
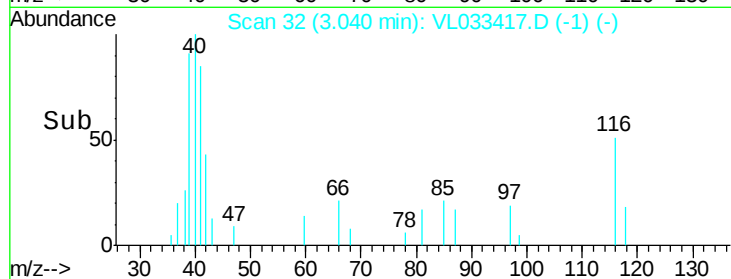
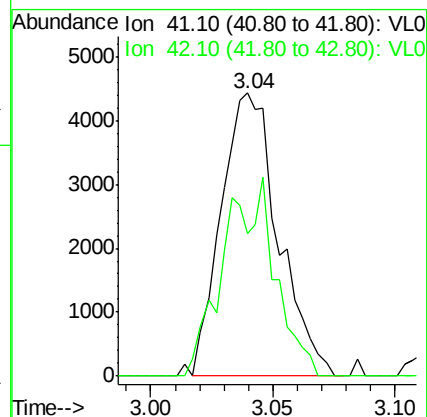
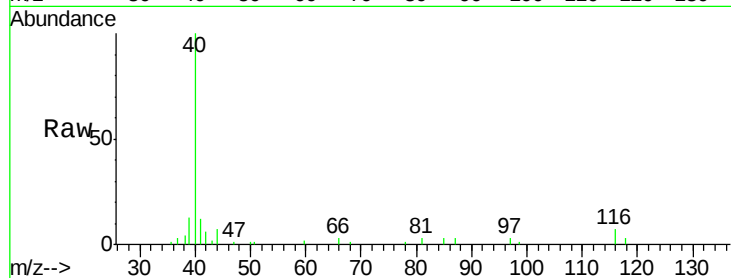
SV1DL

Tgt Ion: 41 Resp: 7222

Ion Ratio Lower Upper

41 100

42 62.9 55.2 82.8



#10

Heptane

Concen: 0.038 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. -0.00 min

Lab File: VL033417.D

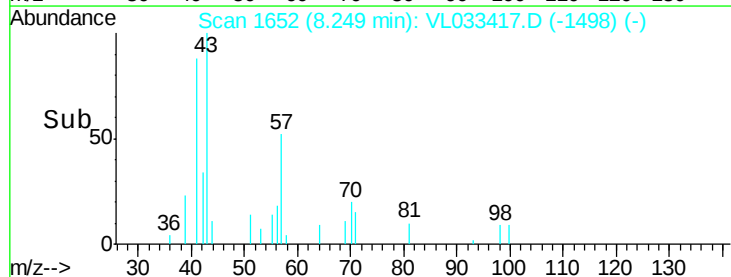
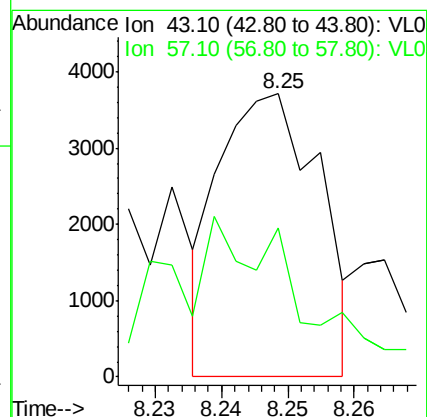
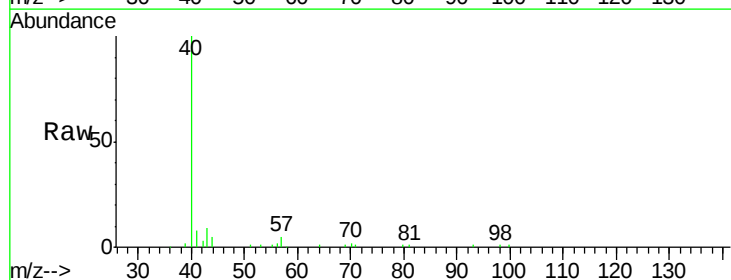
Acq: 21 Mar 2019 10:52

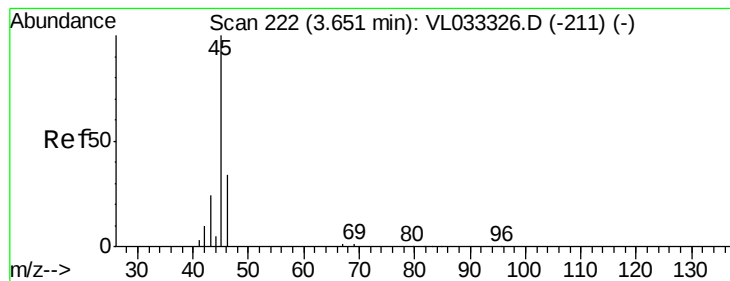
Tgt Ion: 43 Resp: 3892

Ion Ratio Lower Upper

43 100

57 0.0 40.4 60.6#





#13

Ethanol

Concen: 1.500 ppbv

RT: 3.66 min Scan# 226

Delta R.T. 0.01 min

Lab File: VL033417.D

Acq: 21 Mar 2019 10:52

Instrument :

MSVOA_L

ClientSampleId :

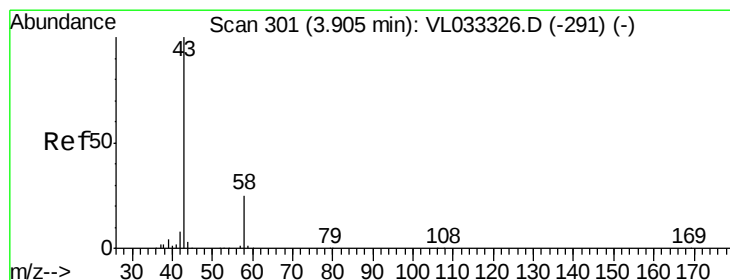
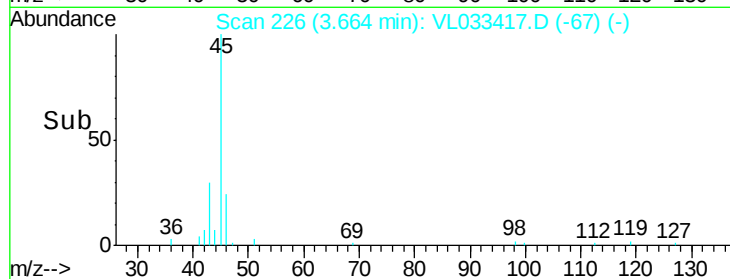
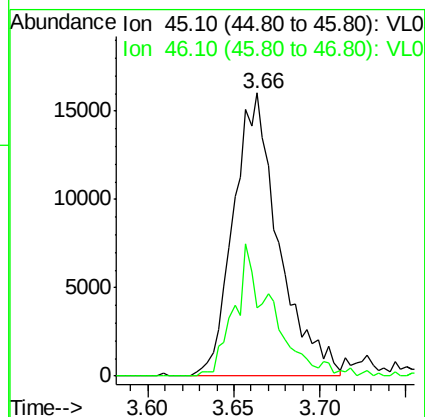
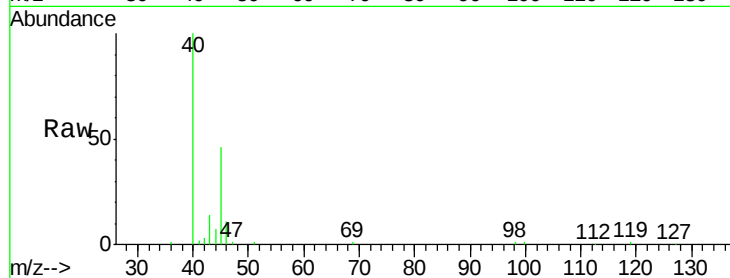
SV1DL

Tgt Ion: 45 Resp: 29321

Ion Ratio Lower Upper

45 100

46 39.0 14.9 59.7



#15

Acetone

Concen: 3.110 ppbv

RT: 3.90 min Scan# 301

Delta R.T. -0.00 min

Lab File: VL033417.D

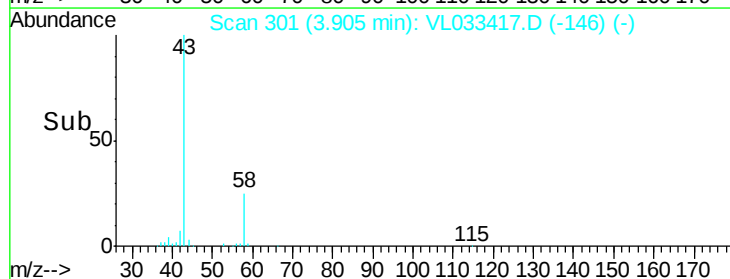
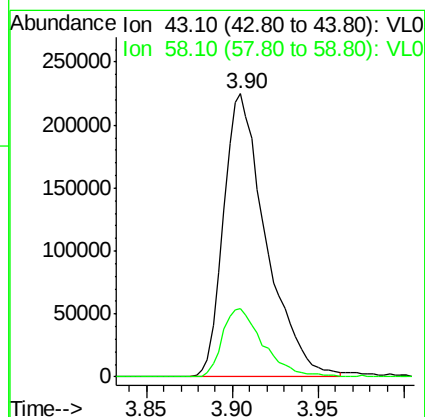
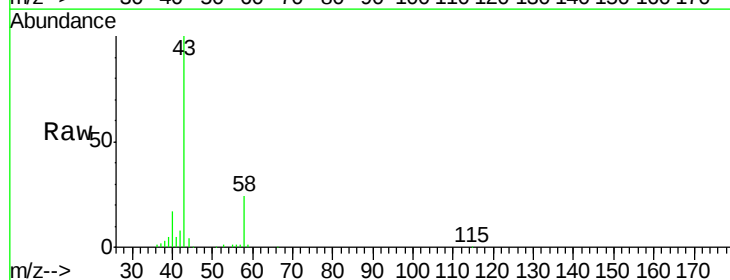
Acq: 21 Mar 2019 10:52

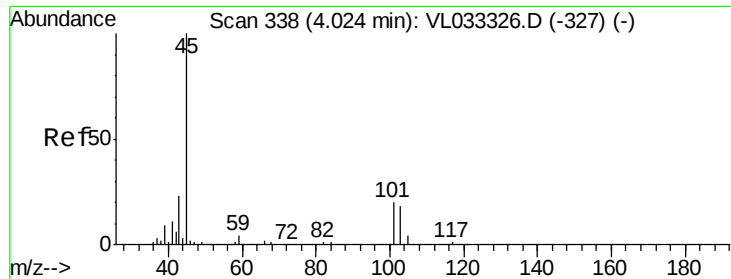
Tgt Ion: 43 Resp: 386882

Ion Ratio Lower Upper

43 100

58 23.8 20.4 30.6





#19

Isopropyl Alcohol

Concen: 0.074 ppbv

RT: 4.05 min Scan# 347

Delta R.T. 0.03 min

Lab File: VL033417.D

Acq: 21 Mar 2019 10:52

Instrument :

MSVOA_L

ClientSampleId :

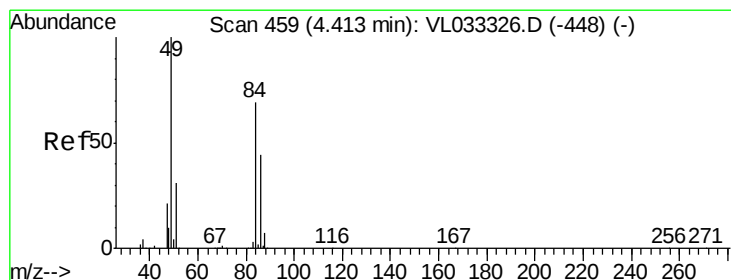
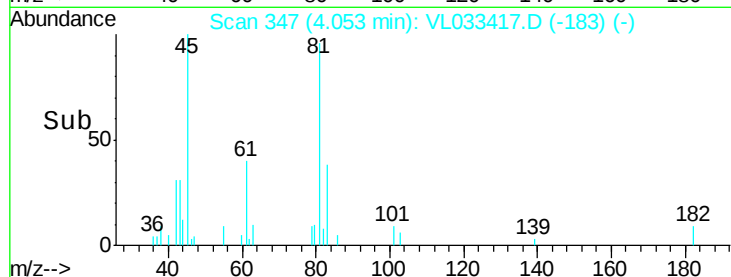
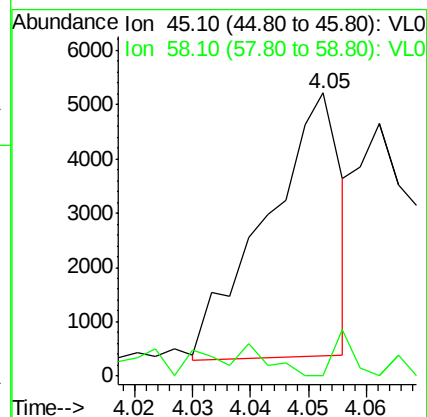
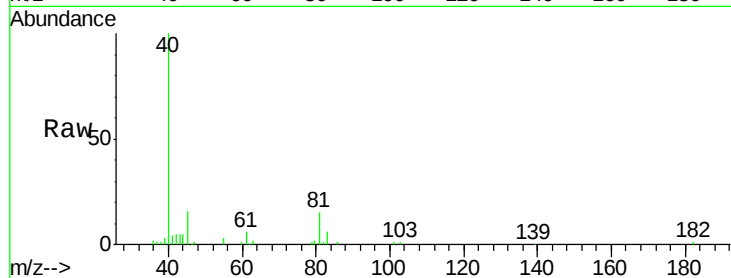
SV1DL

Tgt Ion: 45 Resp: 4350

Ion Ratio Lower Upper

45 100

58 0.0 1.5 2.3#



#20

Methylene Chloride

Concen: 0.984 ppbv

RT: 4.41 min Scan# 459

Delta R.T. -0.00 min

Lab File: VL033417.D

Acq: 21 Mar 2019 10:52

Tgt Ion: 84 Resp: 39927

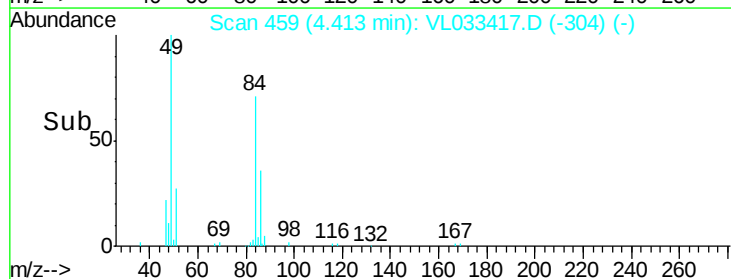
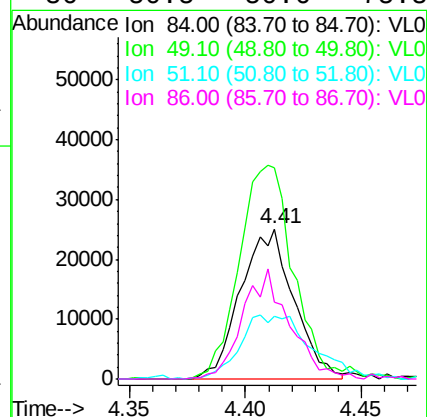
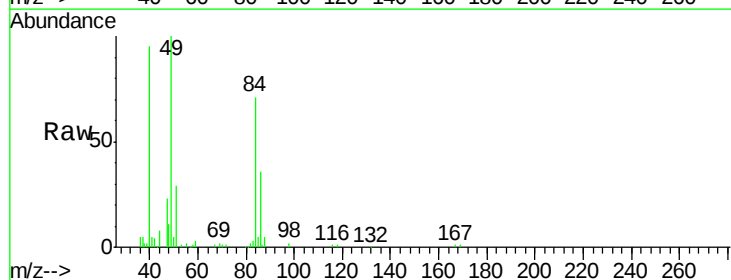
Ion Ratio Lower Upper

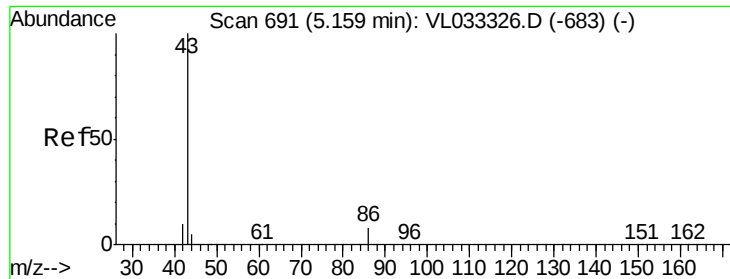
84 100

49 140.5 115.4 173.0

51 40.6 35.8 53.6

86 50.5 50.6 75.8#





#23

Vinyl Acetate

Concen: 0.075 ppbv

RT: 5.13 min Scan# 683

Delta R.T. -0.03 min

Lab File: VL033417.D

Acq: 21 Mar 2019 10:52

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

Tgt Ion: 43 Resp: 10837

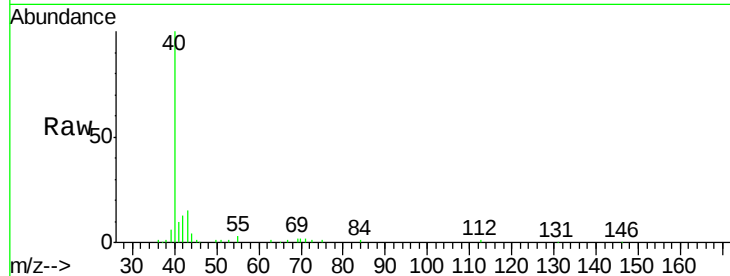
Ion Ratio Lower Upper

43 100

86 0.0 6.2 9.2#

42 75.9 8.1 12.1#

44 12.8 4.1 6.1#

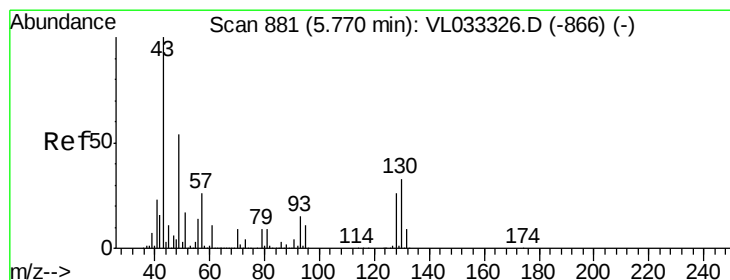
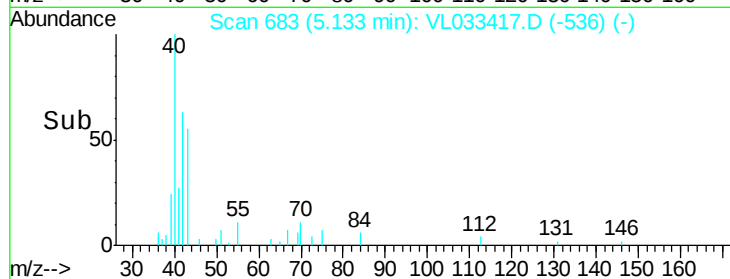
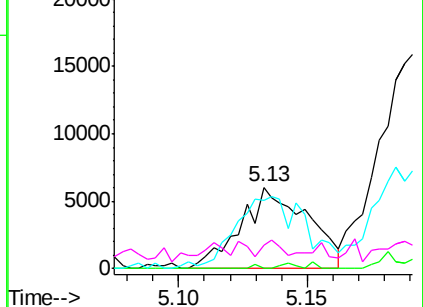


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.137 ppbv

RT: 5.78 min Scan# 883

Delta R.T. 0.01 min

Lab File: VL033417.D

Acq: 21 Mar 2019 10:52

Tgt Ion: 43 Resp: 24741

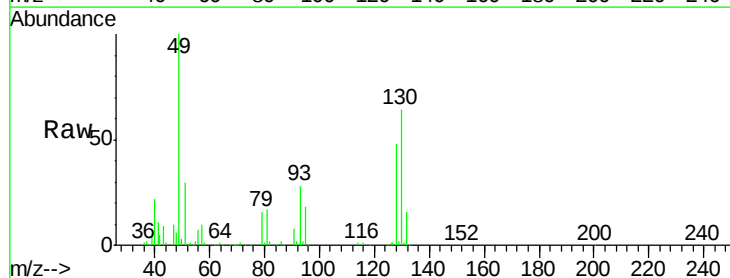
Ion Ratio Lower Upper

43 100

45 1.3 7.9 11.9#

61 0.6 7.4 11.2#

70 1.9 5.7 8.5#

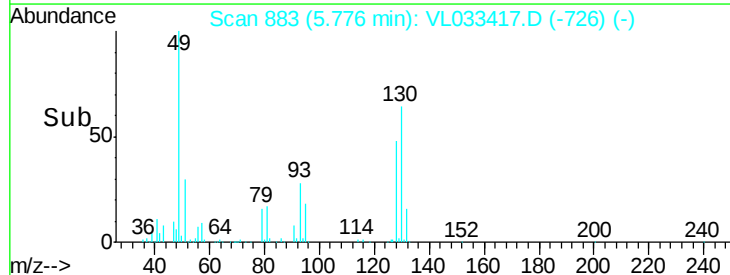
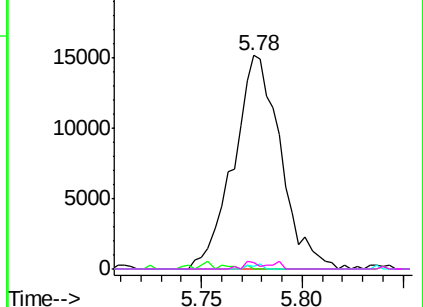


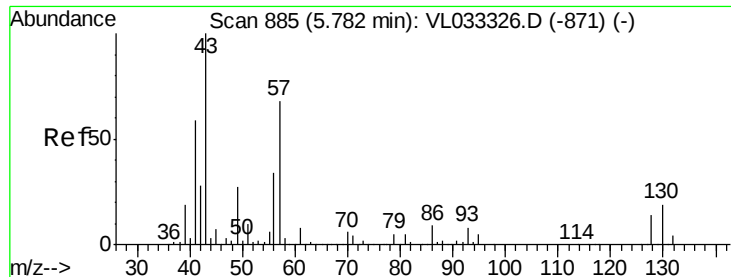
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

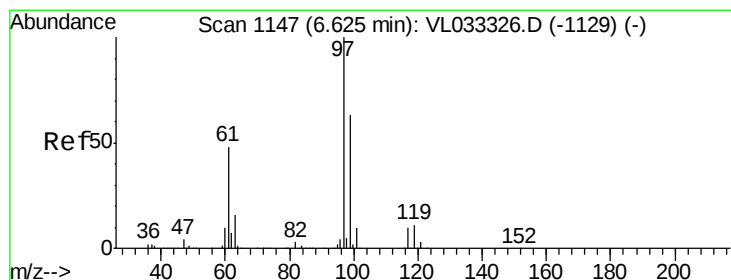
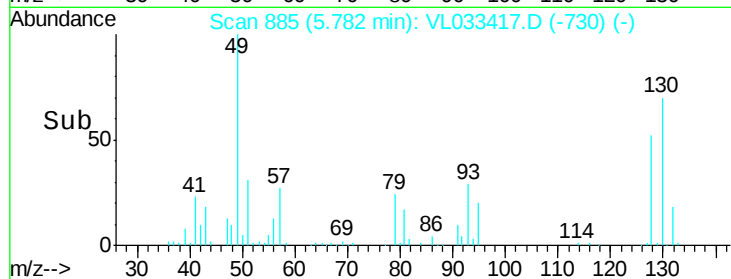
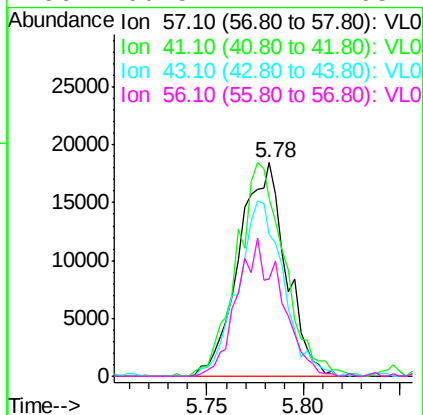
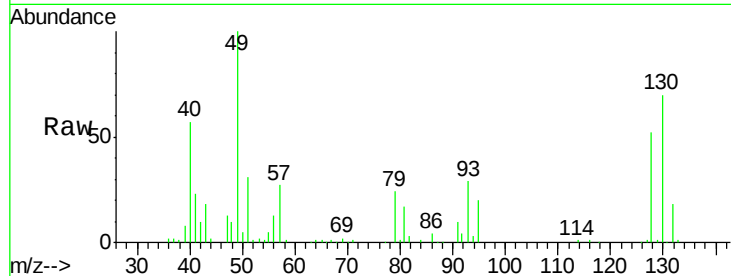




#26
Hexane
Concen: 0.385 ppbv
RT: 5.78 min Scan# 885
Delta R.T. -0.00 min
Lab File: VL033417.D
Acq: 21 Mar 2019 10:52

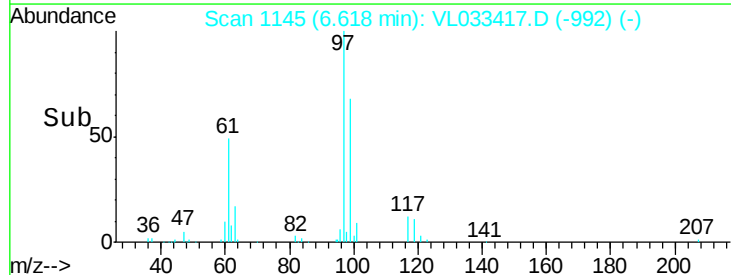
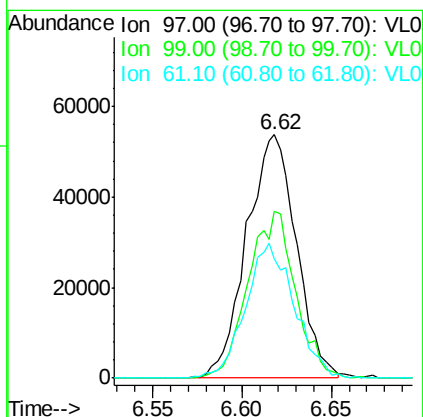
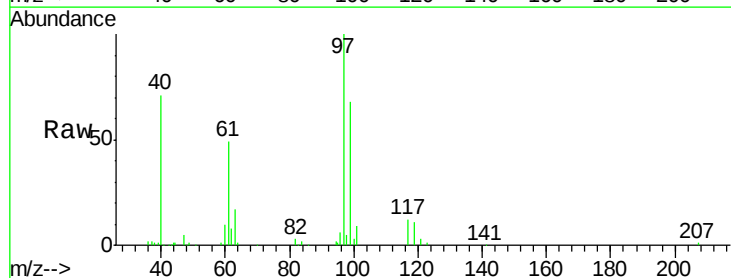
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

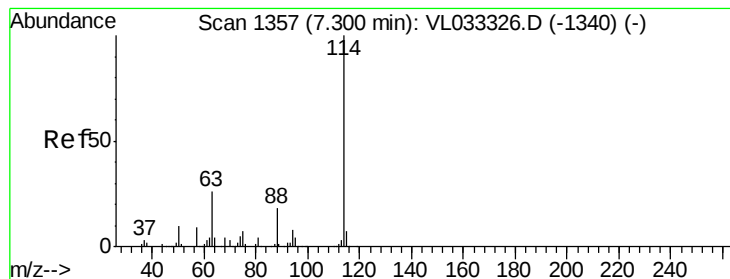
Tgt Ion: 57 Resp: 31095
Ion Ratio Lower Upper
57 100
41 102.3 70.5 105.7
43 79.8 181.8 272.8#
56 60.5 42.2 63.2



#32
1,1,1-Trichloroethane
Concen: 0.804 ppbv
RT: 6.62 min Scan# 1145
Delta R.T. -0.01 min
Lab File: VL033417.D
Acq: 21 Mar 2019 10:52

Tgt Ion: 97 Resp: 104522
Ion Ratio Lower Upper
97 100
99 65.3 51.0 76.6
61 54.5 39.3 58.9





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1354

Delta R.T. -0.01 min

Lab File: VL033417.D

Acq: 21 Mar 2019 10:52

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

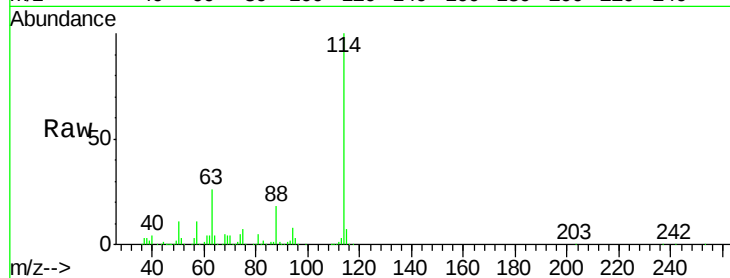
Tgt Ion:114 Resp: 1825823

Ion Ratio Lower Upper

114 100

63 26.9 21.4 32.2

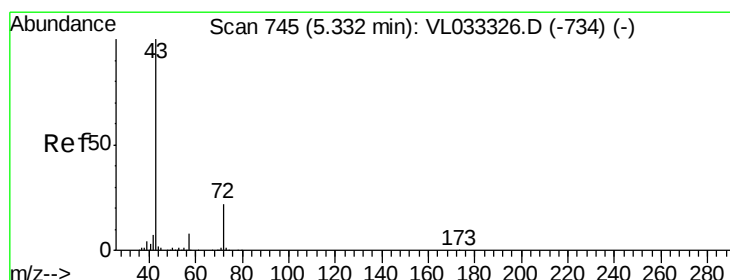
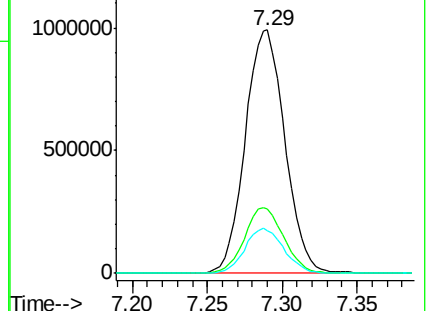
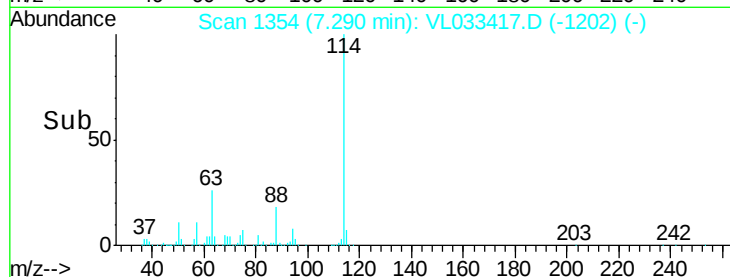
88 18.3 14.5 21.7



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.079 ppbv

RT: 5.34 min Scan# 748

Delta R.T. 0.01 min

Lab File: VL033417.D

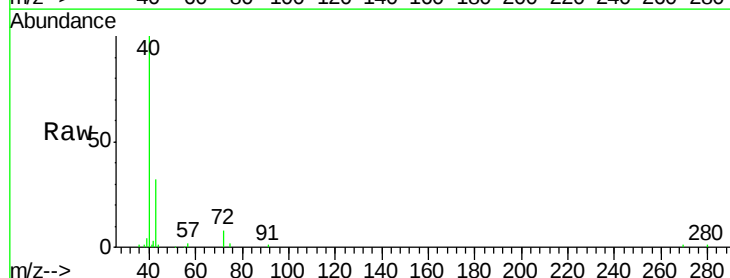
Acq: 21 Mar 2019 10:52

Tgt Ion: 43 Resp: 9437

Ion Ratio Lower Upper

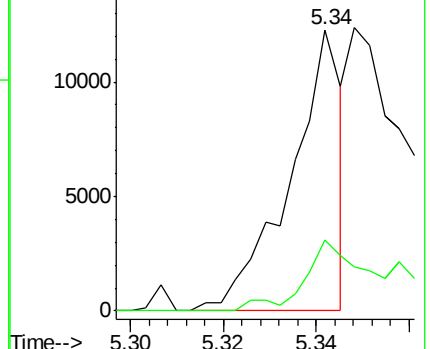
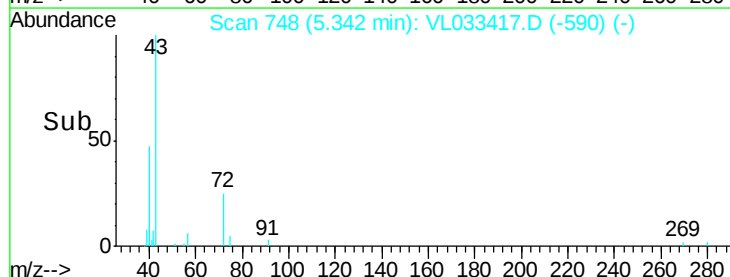
43 100

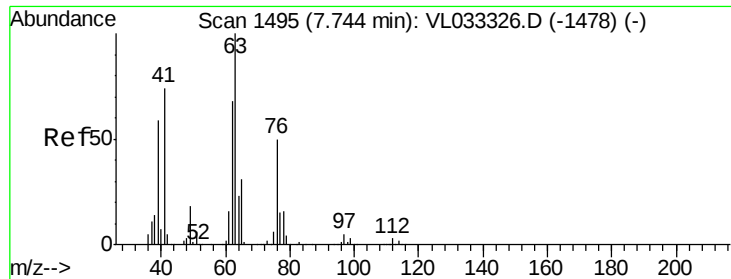
72 44.5 17.7 26.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

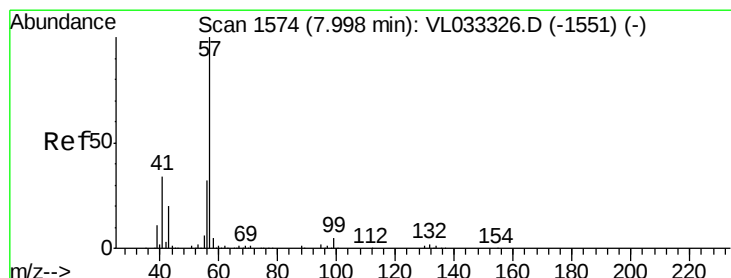
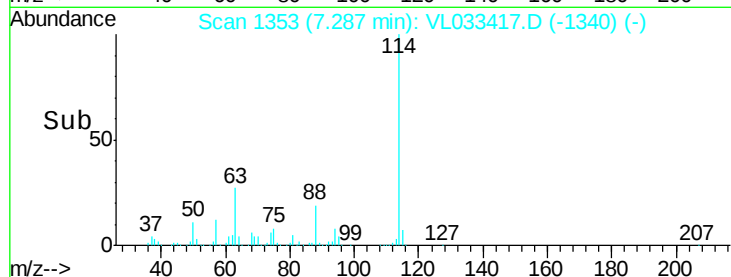
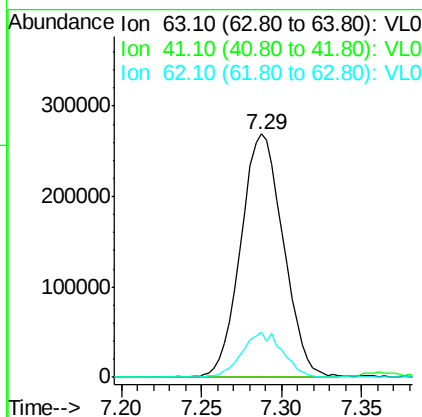
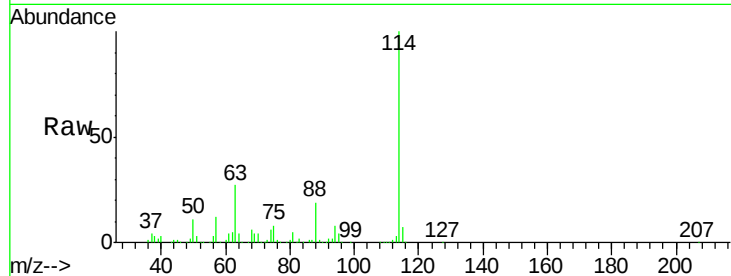




#39
 1,2-Dichloropropane
 Concen: 7.985 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.46 min
 Lab File: VL033417.D
 Acq: 21 Mar 2019 10:52

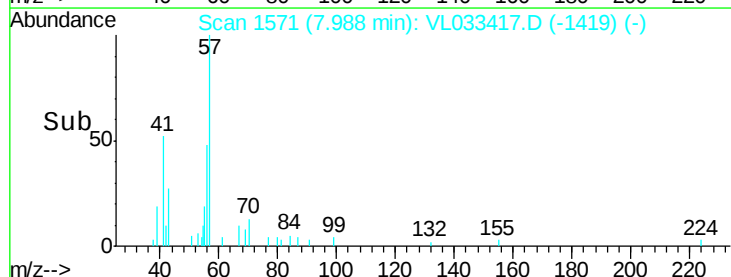
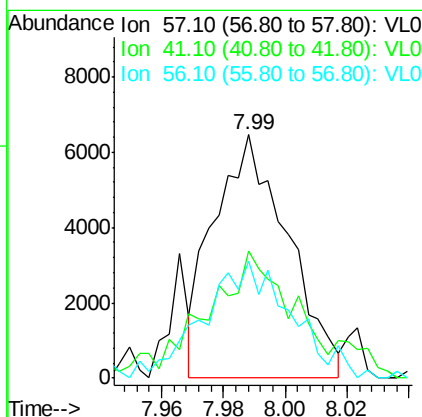
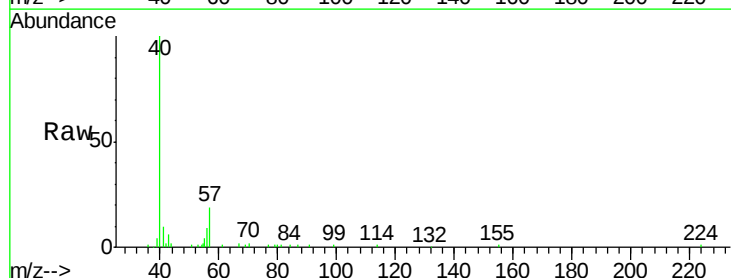
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

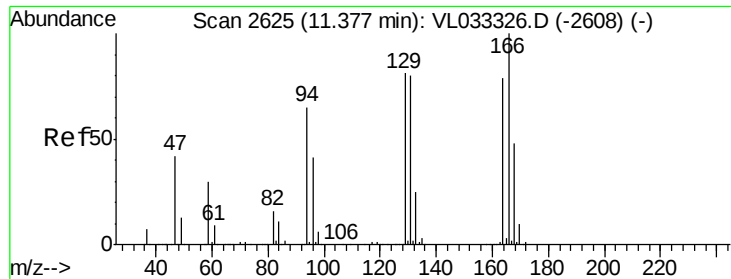
Tgt Ion: 63 Resp: 488598
 Ion Ratio Lower Upper
 63 100
 41 0.0 59.5 89.3#
 62 18.8 54.7 82.1#



#44
 2,2,4-Trimethylpentane
 Concen: 0.040 ppbv
 RT: 7.99 min Scan# 1571
 Delta R.T. -0.01 min
 Lab File: VL033417.D
 Acq: 21 Mar 2019 10:52

Tgt Ion: 57 Resp: 10735
 Ion Ratio Lower Upper
 57 100
 41 67.0 26.0 39.0#
 56 57.7 24.6 36.8#

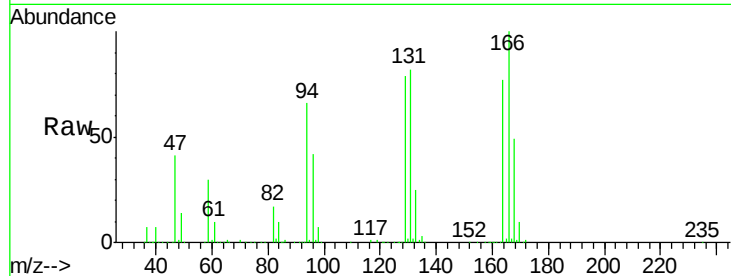




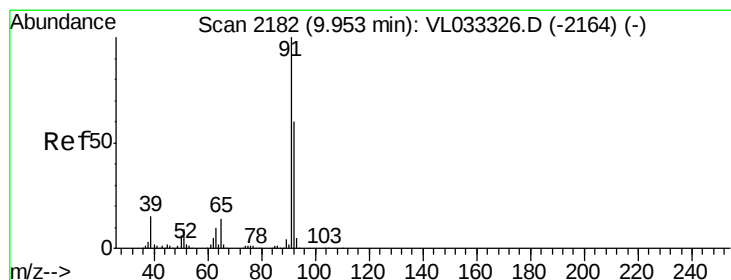
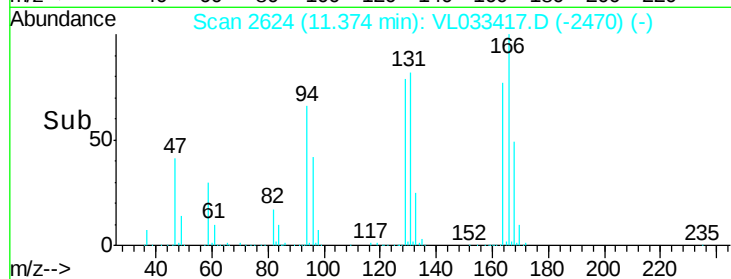
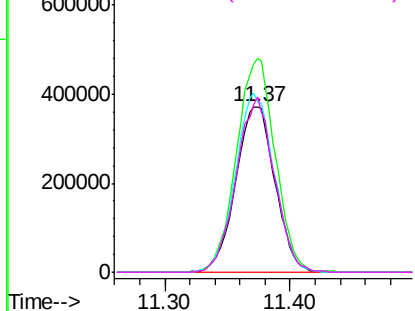
#52
Tetrachloroethene
Concen: 11.876 ppbv
RT: 11.37 min Scan# 2624
Delta R.T. -0.00 min
Lab File: VL033417.D
Acq: 21 Mar 2019 10:52

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tgt Ion:164 Resp: 808455
Ion Ratio Lower Upper
164 100
166 128.9 101.5 152.3
129 102.4 82.2 123.2
131 105.6 81.1 121.7

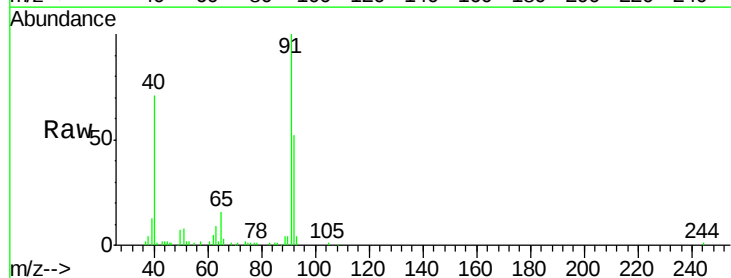


Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V

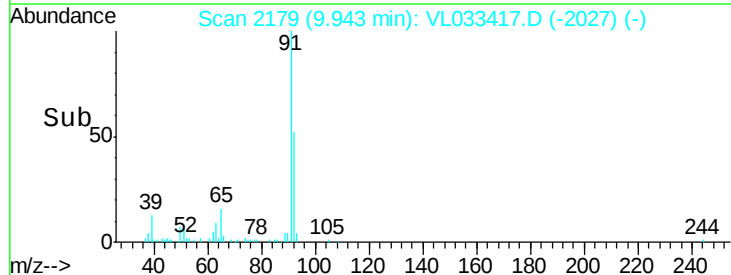
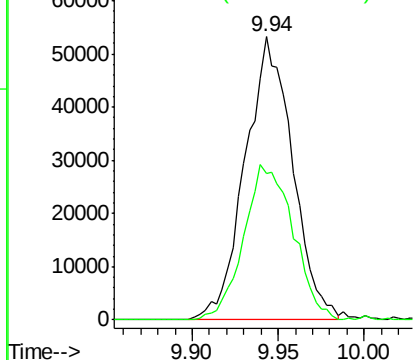


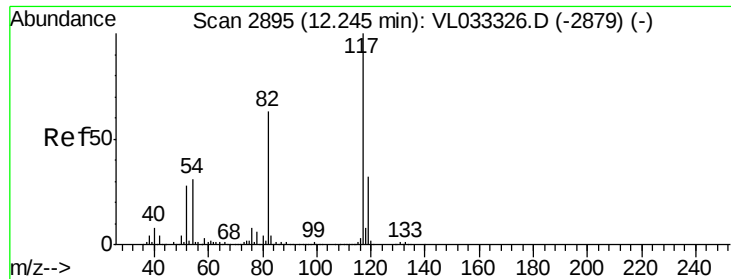
#53
Toluene
Concen: 0.548 ppbv
RT: 9.94 min Scan# 2179
Delta R.T. -0.01 min
Lab File: VL033417.D
Acq: 21 Mar 2019 10:52

Tgt Ion: 91 Resp: 101698
Ion Ratio Lower Upper
91 100
92 57.7 47.4 71.0



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

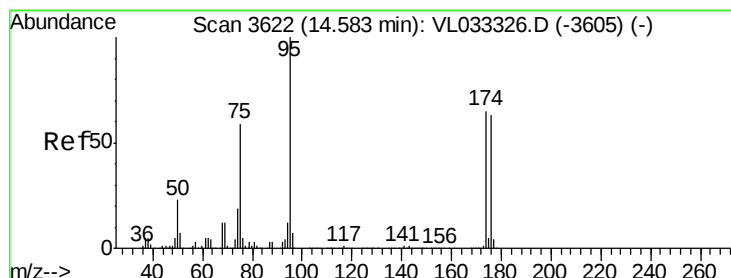
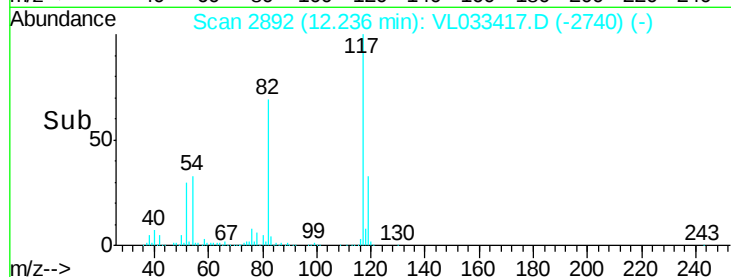
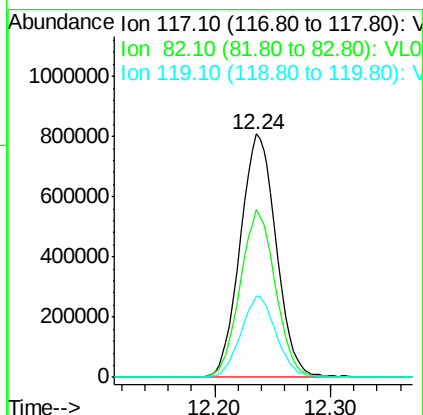
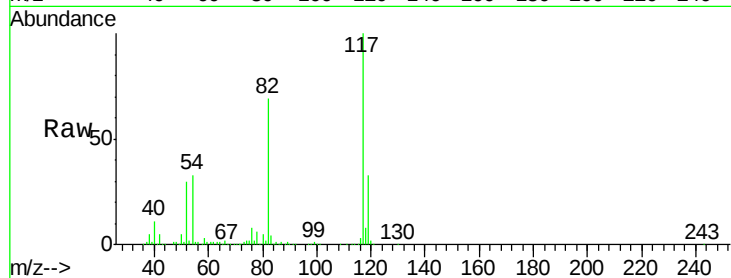




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL033417.D
Acq: 21 Mar 2019 10:52

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tgt Ion:117 Resp: 1745279
Ion Ratio Lower Upper
117 100
82 67.4 53.4 80.2
119 32.9 27.3 40.9



#68
1-Bromo-4-Fluorobenzene
Concen: 10.416 ppbv
RT: 14.57 min Scan# 3619
Delta R.T. -0.01 min
Lab File: VL033417.D
Acq: 21 Mar 2019 10:52

Tgt Ion: 95 Resp: 1346985
Ion Ratio Lower Upper
95 100
174 65.0 51.5 77.3
175 4.7 3.8 5.6

