

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032919\
 Data File : VL033514.D
 Acq On : 29 Mar 2019 22:52
 Operator : SY/AP
 Sample : K2042-03DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 30 01:13:44 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	839488	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1891773	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1821540	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1403232	9.83	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.30%

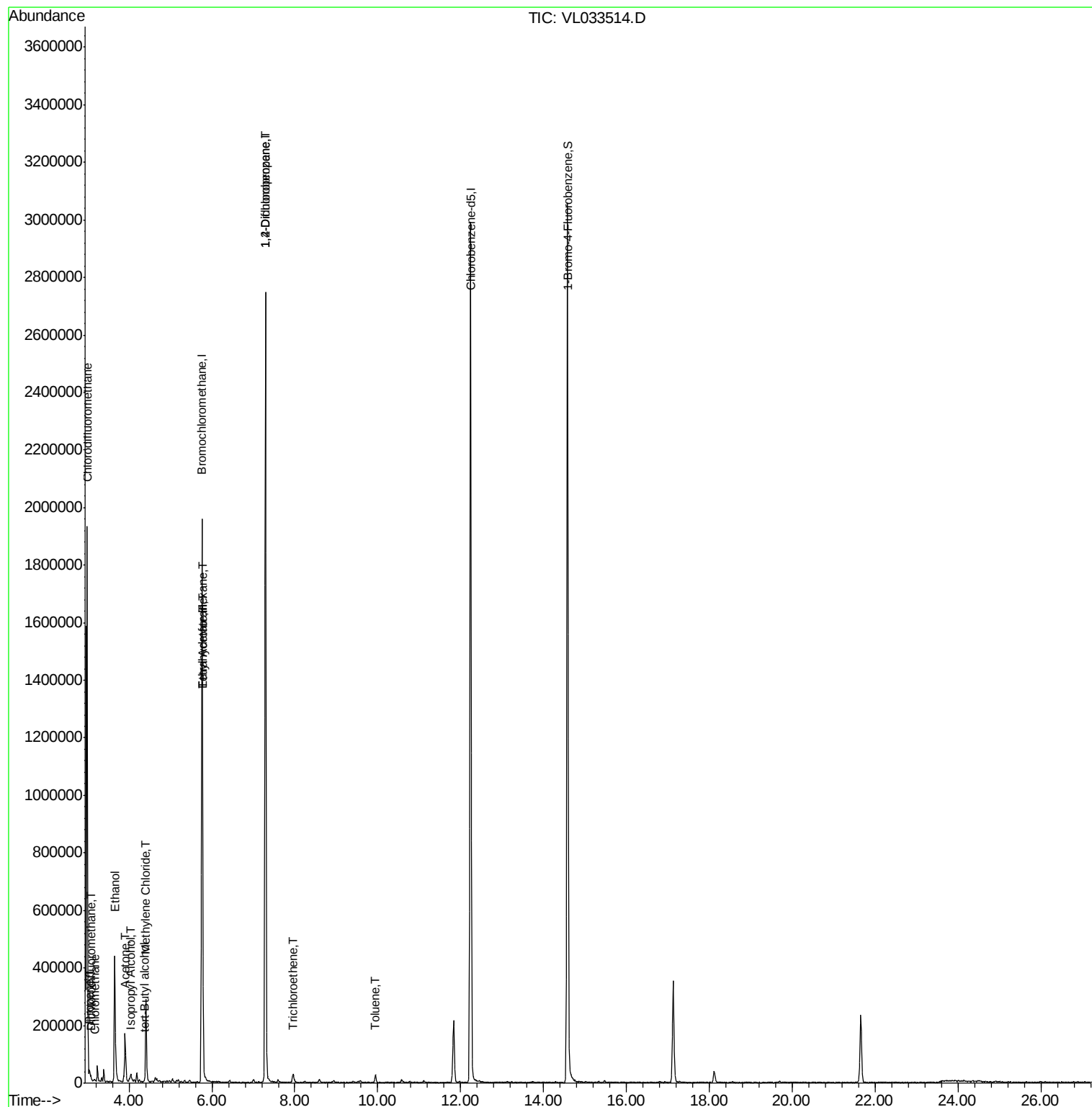
Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.08	85	11274	0.09	ppbv	96
3) Chlorodifluoromethane	2.99	51	1101907	11.40	ppbv #	57
4) Chloromethane	3.17	50	2306	0.05	ppbv #	49
9) Propene	3.05	41	6719	0.17	ppbv	93
13) Ethanol	3.66	45	467874	44.55	ppbv	66
15) Acetone	3.90	43	162992	1.61	ppbv	100
17) tert-Butyl alcohol	4.37	59	955	0.05	ppbv #	73
19) Isopropyl Alcohol	4.04	45	12373	0.19	ppbv #	95
20) Methylene Chloride	4.41	84	103036	2.40	ppbv	93
25) Ethyl Acetate	5.78	43	76946	0.41	ppbv #	78
26) Hexane	5.78	57	110216	1.32	ppbv #	39
38) Trichloroethene	7.96	130	4074	0.07	ppbv #	50
39) 1,2-Dichloropropane	7.29	63	497826	8.01	ppbv #	23
41) Tetrahydrofuran	5.78	42	45647	0.73	ppbv #	49
53) Toluene	9.94	91	18127	0.10	ppbv	99

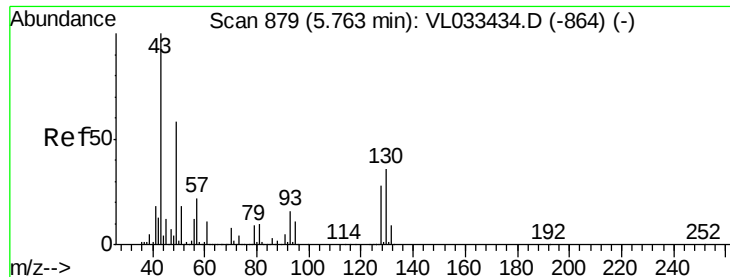
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Mar 26 16:00:50 2019
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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033514.D

Acq: 29 Mar 2019 22:52

Instrument :
MSVOA_L
ClientSampleId :

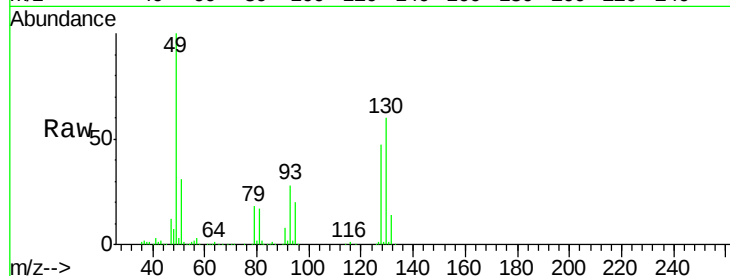
Tot Ion: 49 Resp: 839488

Ion Ratio Lower Upper

49 100

128 48.2 24.0 72.0

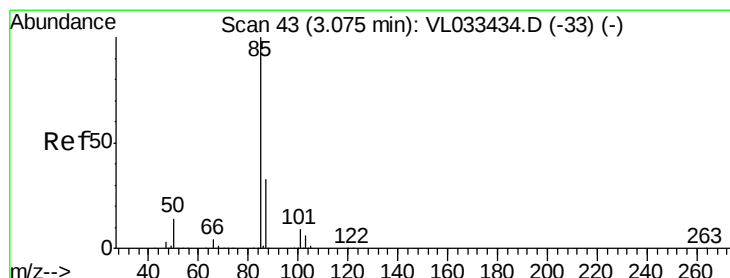
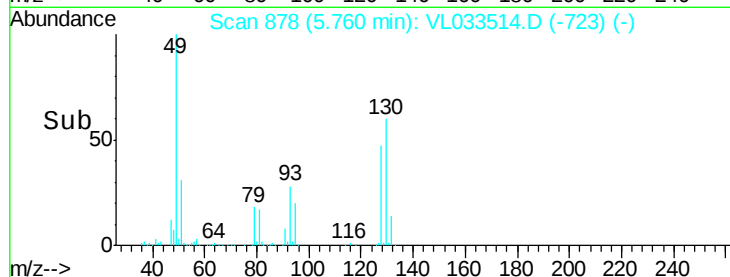
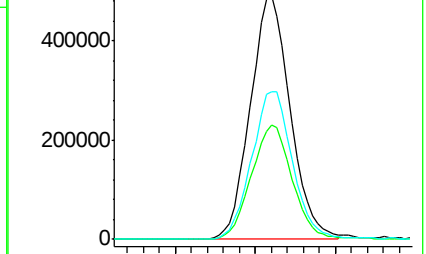
130 62.7 31.2 93.6



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.09 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033514.D

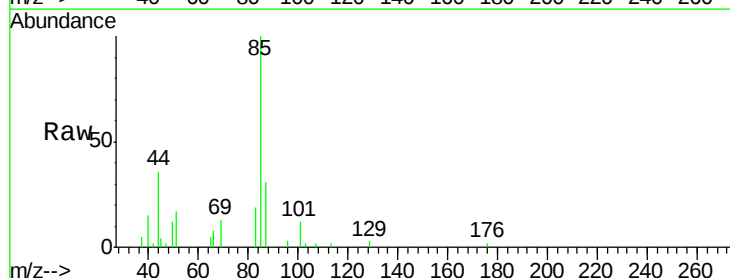
Acq: 29 Mar 2019 22:52

Tgt Ion: 85 Resp: 11274

Ion Ratio Lower Upper

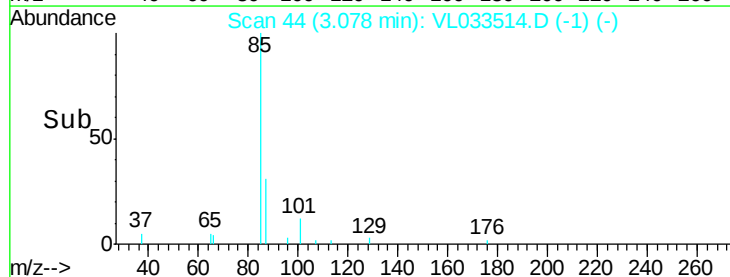
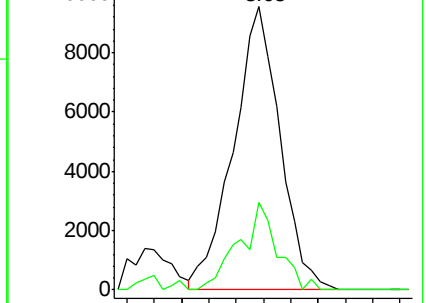
85 100

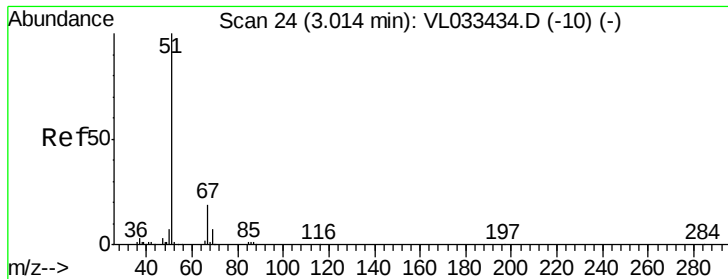
87 30.9 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 11.40 ppbv

RT: 2.99 min Scan# 16

Delta R.T. -0.03 min

Lab File: VL033514.D

Acq: 29 Mar 2019 22:52

Instrument :

MSVOA_L

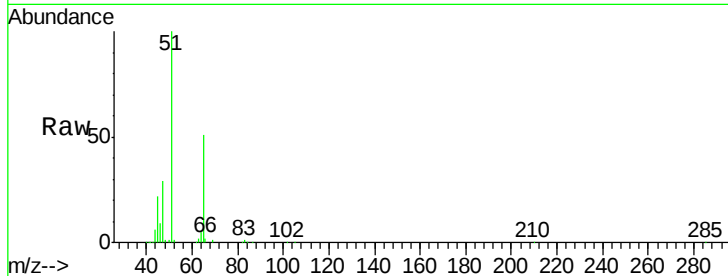
ClientSampleId :

Tot Ion: 51 Resp: 1101907

Ion Ratio Lower Upper

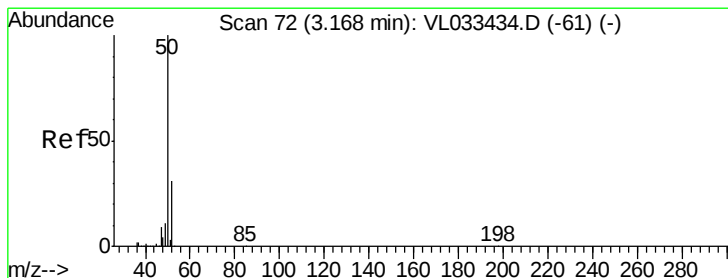
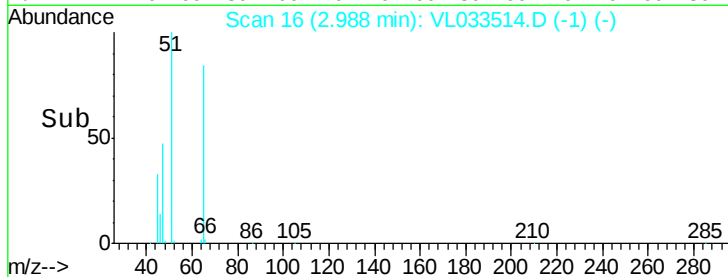
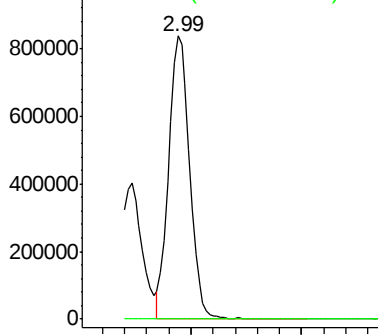
51 100

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: 0.05 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033514.D

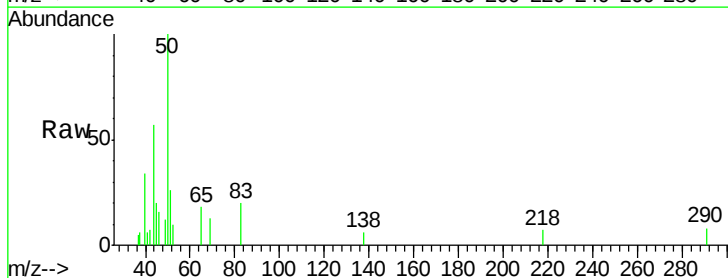
Acq: 29 Mar 2019 22:52

Tgt Ion: 50 Resp: 2306

Ion Ratio Lower Upper

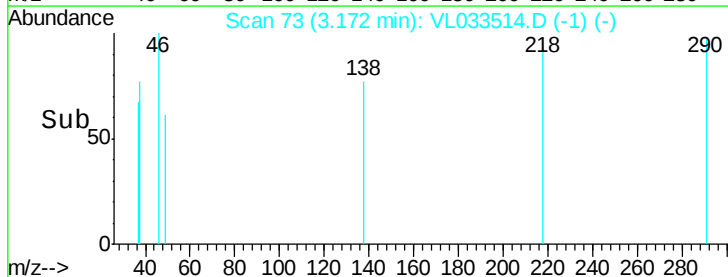
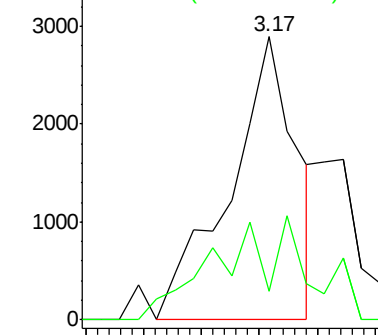
50 100

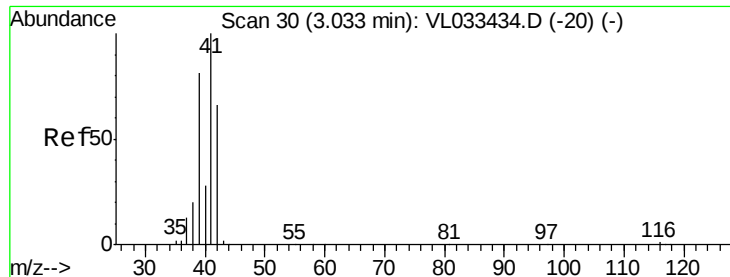
52 3.4 25.0 37.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.17 ppbv

RT: 3.05 min Scan# 34

Delta R.T. 0.01 min

Lab File: VL033514.D

Acq: 29 Mar 2019 22:52

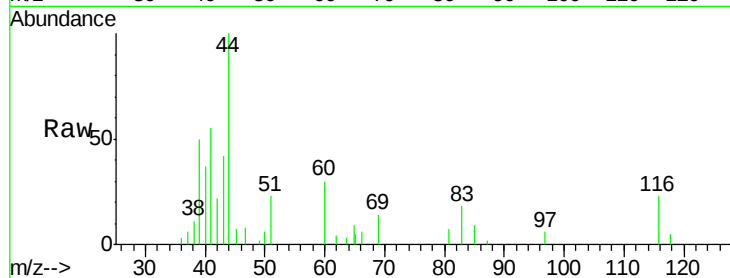
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 41 Resp: 6719

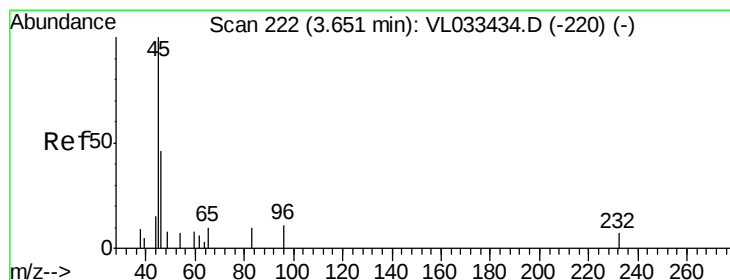
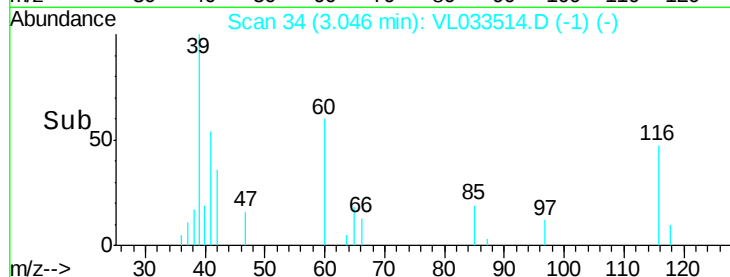
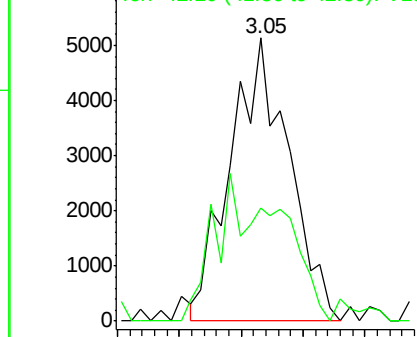
Ion Ratio Lower Upper

41 100

42 62.1 53.9 80.9



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 42.10 (41.80 to 42.80): VL0



#13

Ethanol

Concen: 44.55 ppbv

RT: 3.66 min Scan# 224

Delta R.T. 0.01 min

Lab File: VL033514.D

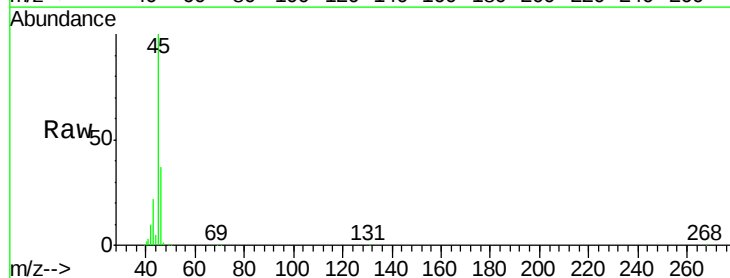
Acq: 29 Mar 2019 22:52

Tgt Ion: 45 Resp: 467874

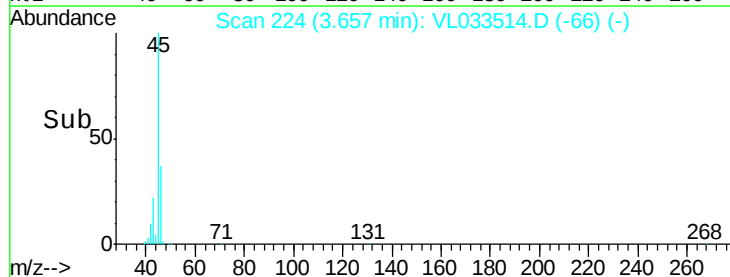
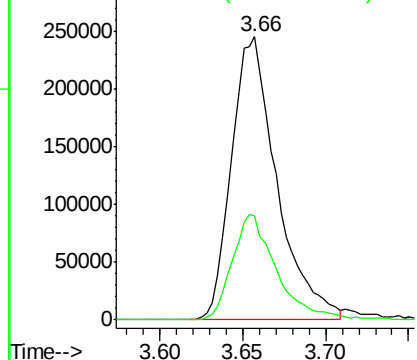
Ion Ratio Lower Upper

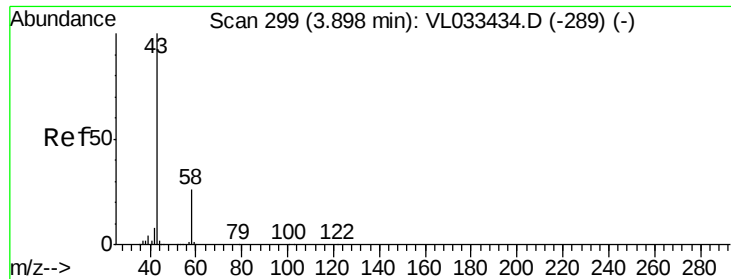
45 100

46 36.7 25.4 101.8



Abundance Ion 45.10 (44.80 to 45.80): VL0
Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 1.61 ppbv

RT: 3.90 min Scan# 301

Delta R.T. 0.01 min

Lab File: VL033514.D

Acq: 29 Mar 2019 22:52

Instrument :

MSVOA_L

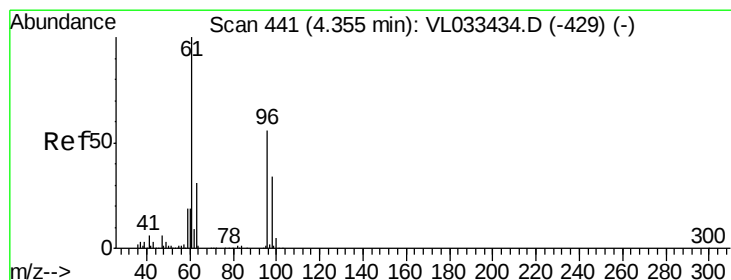
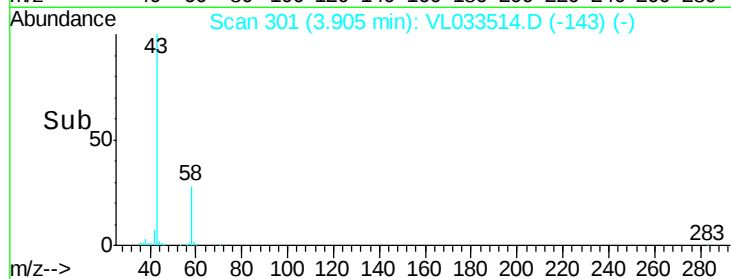
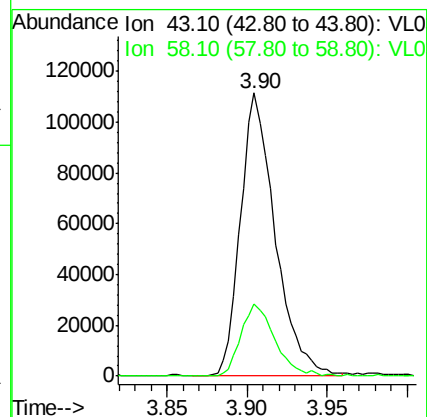
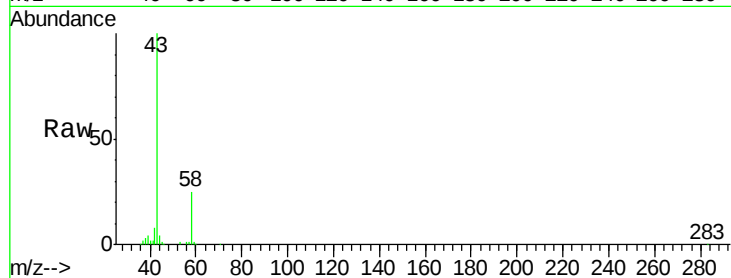
ClientSampleId :

Tot Ion: 43 Resp: 162992

Ion Ratio Lower Upper

43 100

58 25.4 20.5 30.7



#17

tert-Butyl alcohol

Concen: 0.05 ppbv

RT: 4.37 min Scan# 447

Delta R.T. 0.02 min

Lab File: VL033514.D

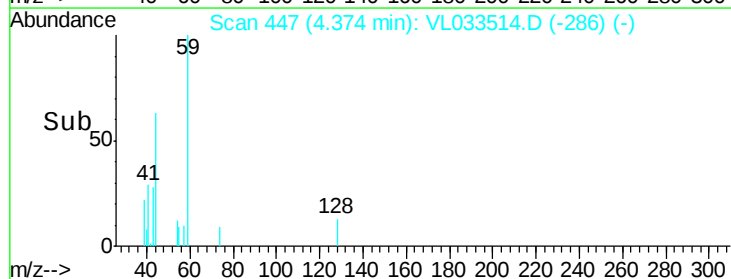
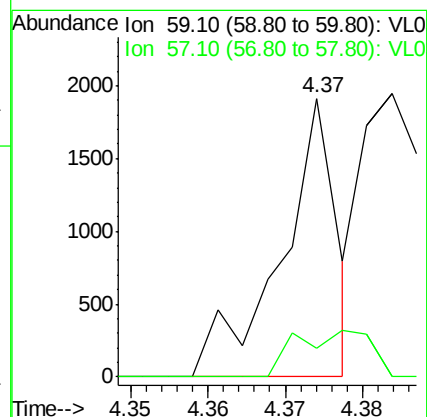
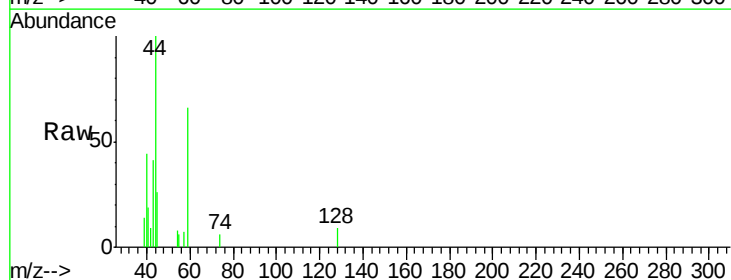
Acq: 29 Mar 2019 22:52

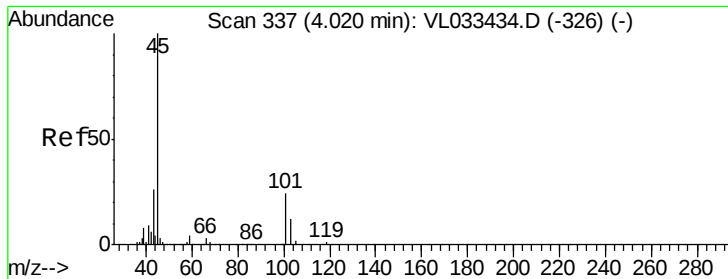
Tgt Ion: 59 Resp: 955

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#



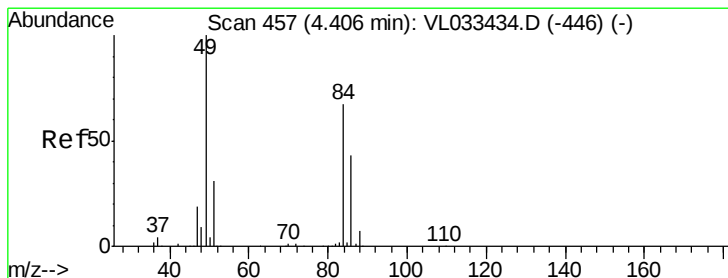
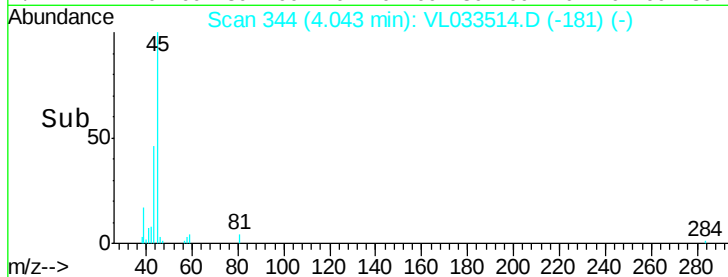
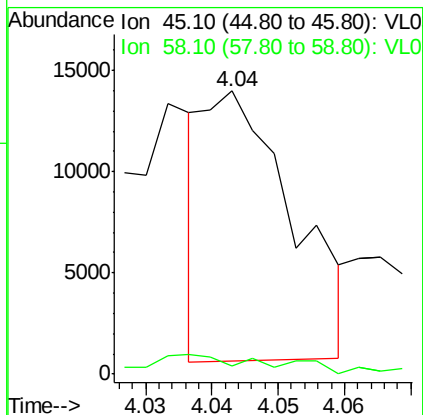
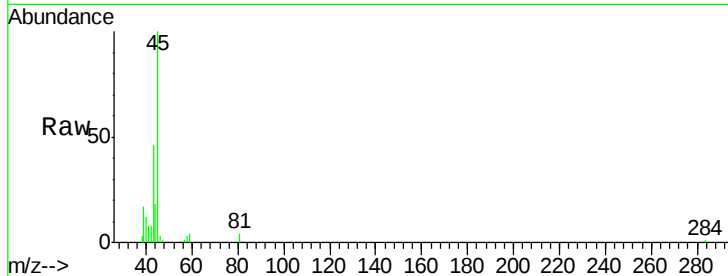


#19

Isopropyl Alcohol
 Concen: 0.19 ppbv
 RT: 4.04 min Scan# 344
 Delta R.T. 0.02 min
 Lab File: VL033514.D
 Acq: 29 Mar 2019 22:52

Instrument :
 MSVOA_L
 ClientSampleId :

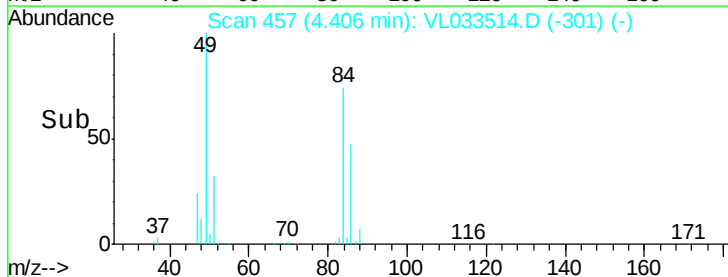
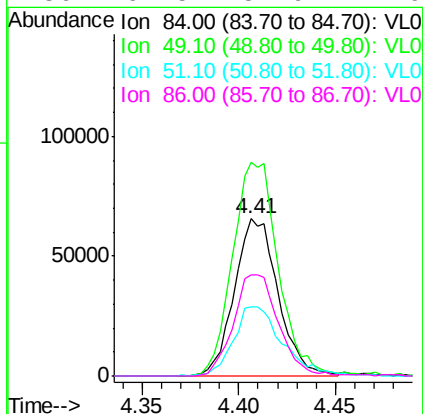
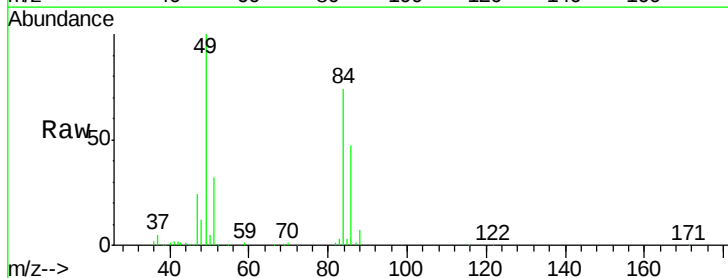
Tot Ion: 45 Resp: 12373
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.4 2.2#

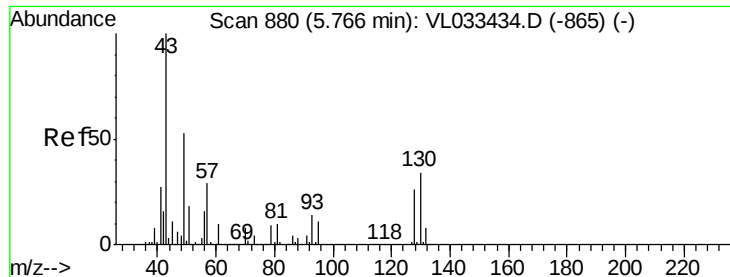


#20

Methylene Chloride
 Concen: 2.40 ppbv
 RT: 4.41 min Scan# 457
 Delta R.T. -0.00 min
 Lab File: VL033514.D
 Acq: 29 Mar 2019 22:52

Tgt Ion: 84 Resp: 103036
 Ion Ratio Lower Upper
 84 100
 49 136.0 120.0 180.0
 51 43.7 36.7 55.1
 86 64.5 51.9 77.9





#25

Ethyl Acetate

Concen: 0.41 ppbv

RT: 5.78 min Scan# 885

Delta R.T. 0.02 min

Lab File: VL033514.D

Acq: 29 Mar 2019 22:52

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 76946

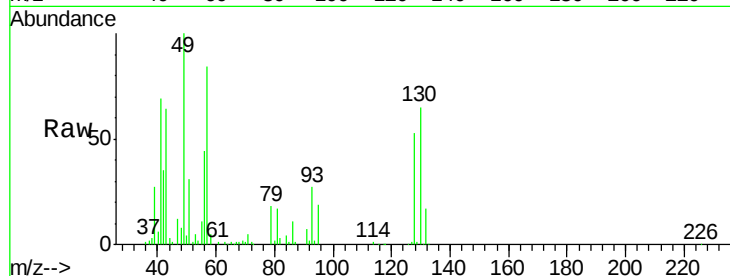
Ion Ratio Lower Upper

43 100

45 0.0 7.8 11.6#

61 0.4 7.3 10.9#

70 2.1 5.6 8.4#

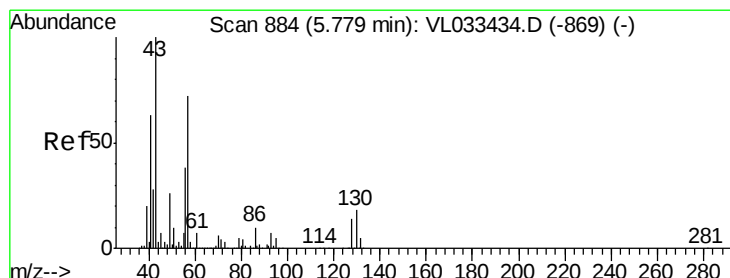
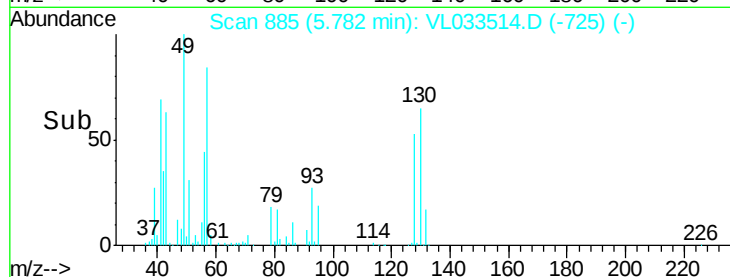
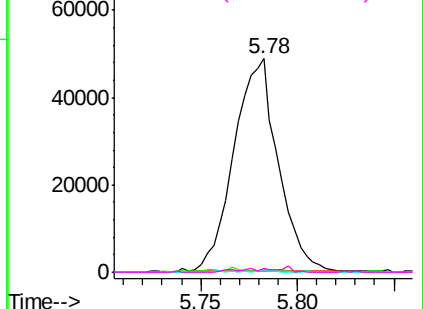


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 1.32 ppbv

RT: 5.78 min Scan# 884

Delta R.T. -0.00 min

Lab File: VL033514.D

Acq: 29 Mar 2019 22:52

Tgt Ion: 57 Resp: 110216

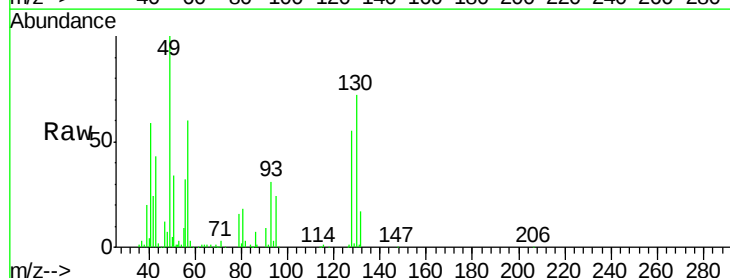
Ion Ratio Lower Upper

57 100

41 93.6 70.7 106.1

43 71.6 182.6 274.0#

56 55.0 42.0 63.0

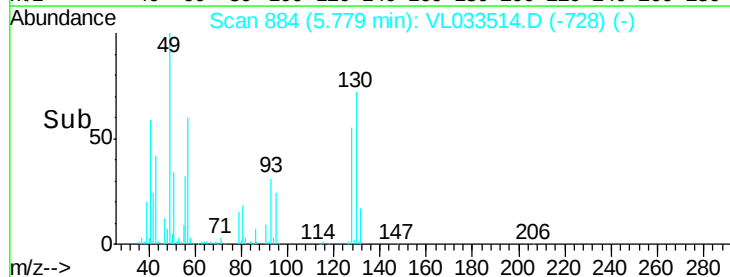
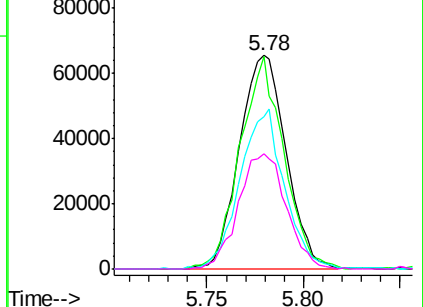


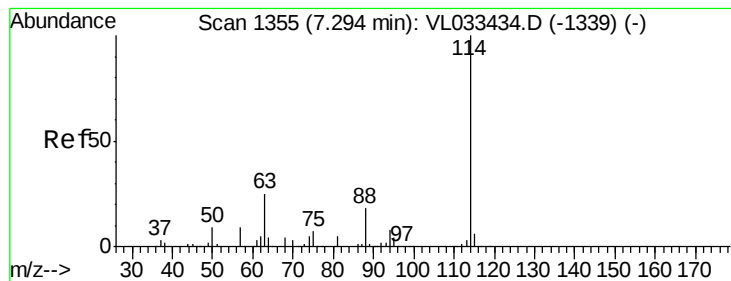
Abundance Ion 57.10 (56.80 to 57.80): VL0

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





#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.29 min Scan# 1354

Delta R.T. -0.00 min

Lab File: VL033514.D

Acq: 29 Mar 2019 22:52

Instrument :

MSVOA_L

ClientSampleId :

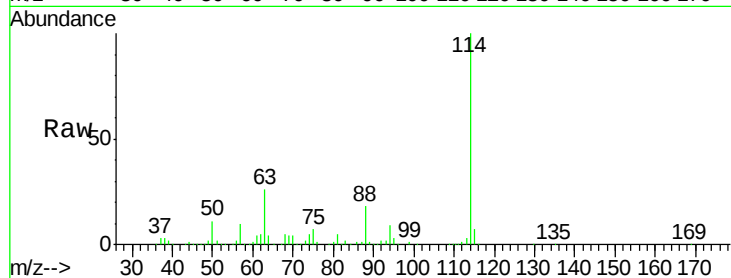
Tot Ion:114 Resp: 1891773

Ion Ratio Lower Upper

114 100

63 26.5 21.5 32.3

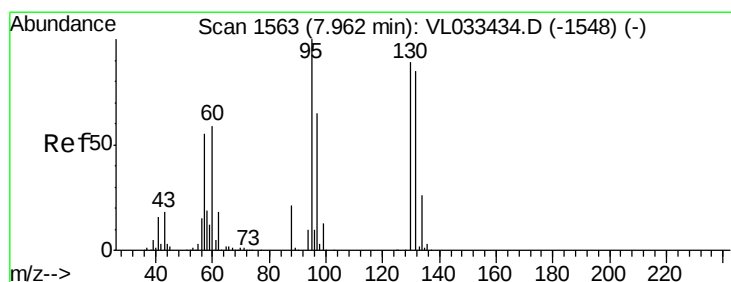
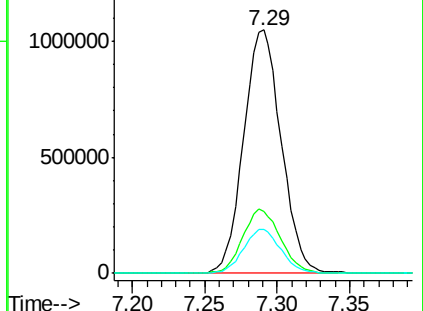
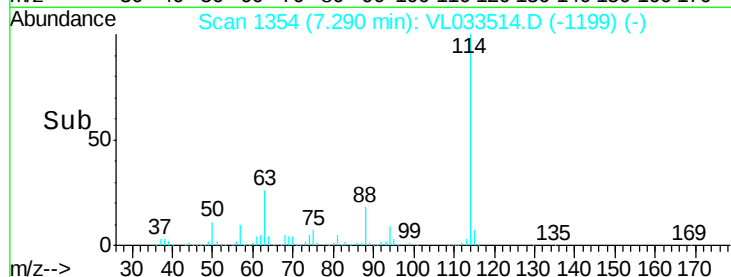
88 18.0 14.5 21.7



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



#38

Trichloroethene

Concen: 0.07 ppbv

RT: 7.96 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VL033514.D

Acq: 29 Mar 2019 22:52

Tgt Ion:130 Resp: 4074

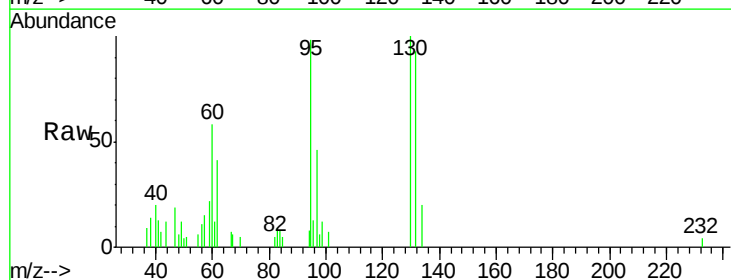
Ion Ratio Lower Upper

130 100

95 42.8 89.8 134.8#

132 92.9 76.6 115.0

97 0.0 58.6 88.0#

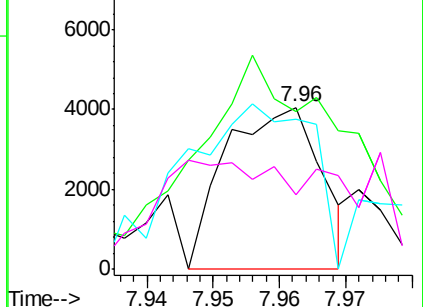
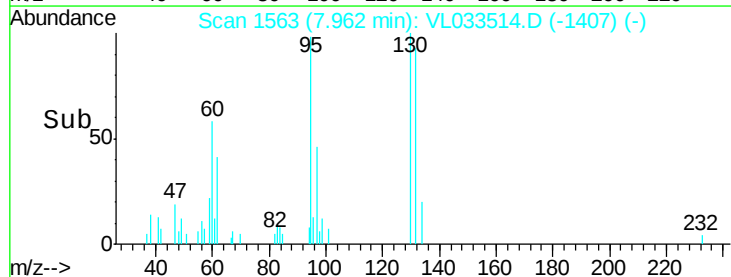


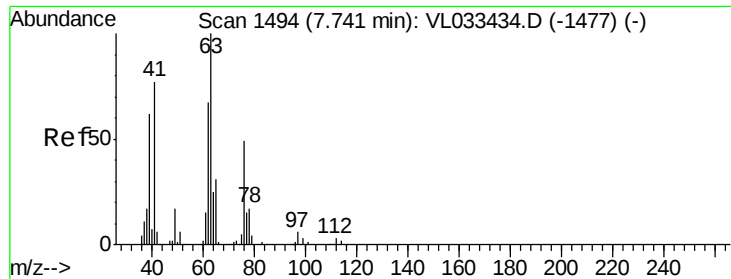
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

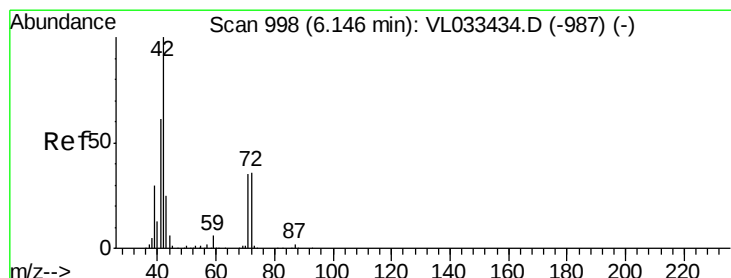
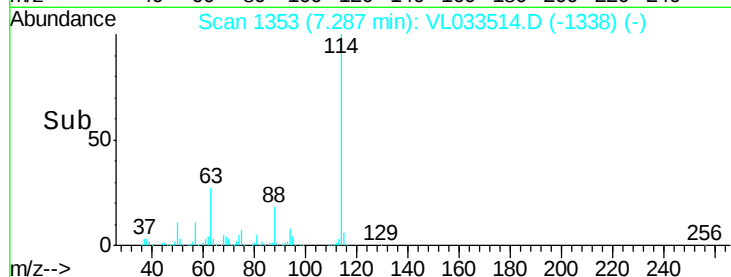
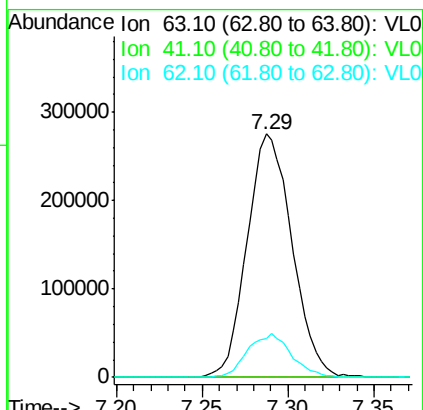
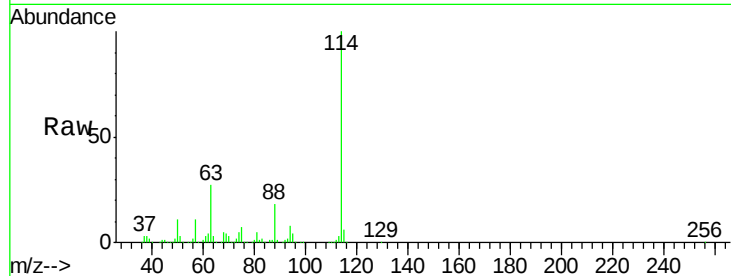




#39
 1,2-Dichloropropane
 Concen: 8.01 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.45 min
 Lab File: VL033514.D
 Acq: 29 Mar 2019 22:52

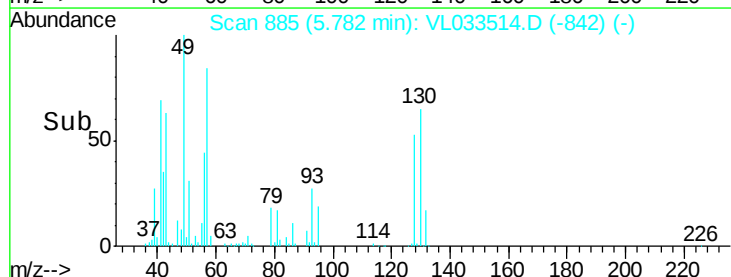
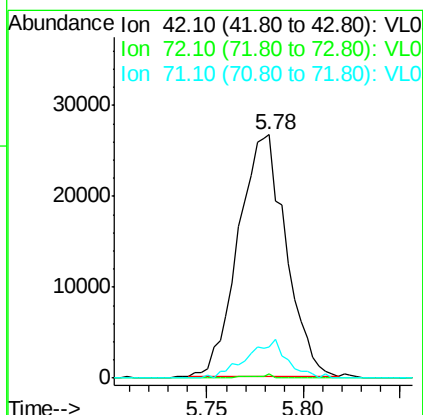
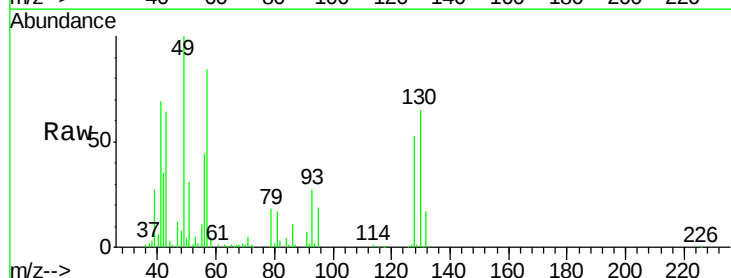
Instrument :
 MSVOA_L
 ClientSampleId :

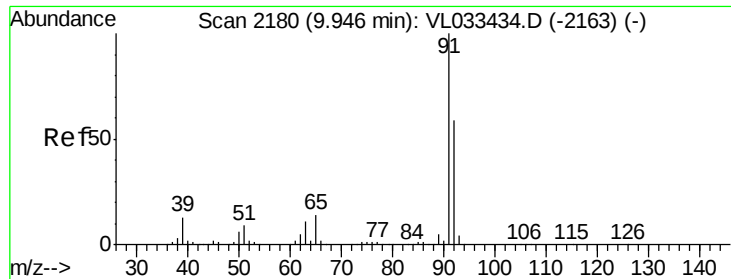
Tot Ion: 63 Resp: 497826
 Ion Ratio Lower Upper
 63 100
 41 0.0 61.2 91.8#
 62 16.1 54.0 81.0#



#41
 Tetrahydrofuran
 Concen: 0.73 ppbv
 RT: 5.78 min Scan# 885
 Delta R.T. -0.36 min
 Lab File: VL033514.D
 Acq: 29 Mar 2019 22:52

Tgt Ion: 42 Resp: 45647
 Ion Ratio Lower Upper
 42 100
 72 0.6 30.2 45.2#
 71 13.4 29.4 44.2#





#53

Toluene

Concen: 0.10 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL033514.D

Acq: 29 Mar 2019 22:52

Instrument :

MSVOA_L

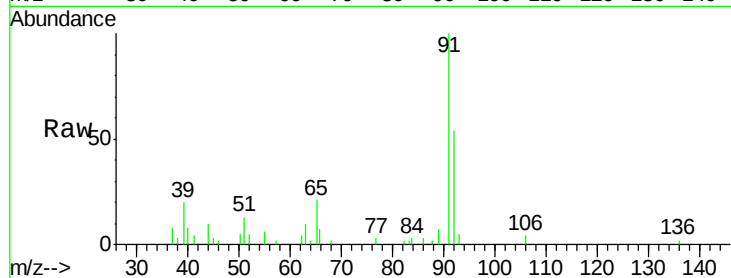
ClientSampleId :

Tot Ion: 91 Resp: 18127

Ion Ratio Lower Upper

91 100

92 59.6 47.4 71.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.94

10000

8000

6000

4000

2000

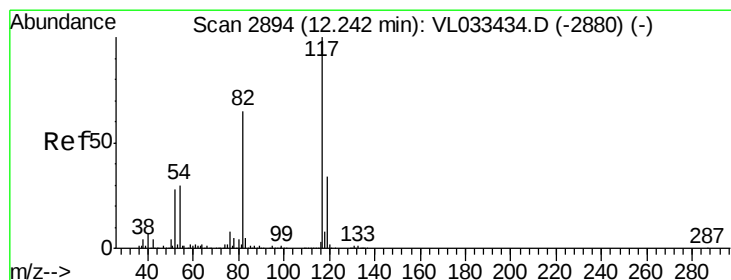
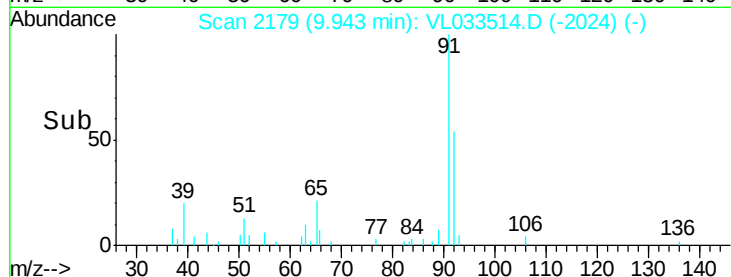
0

9.90

9.95

10.00

Time-->



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. -0.00 min

Lab File: VL033514.D

Acq: 29 Mar 2019 22:52

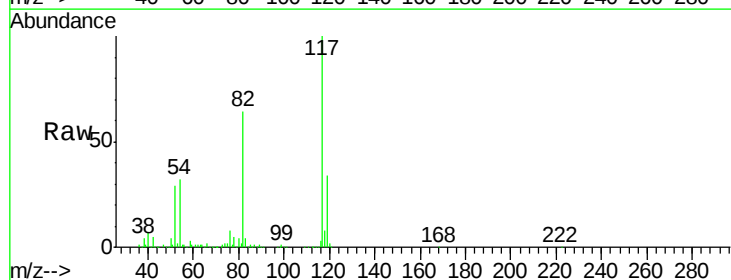
Tgt Ion: 117 Resp: 1821540

Ion Ratio Lower Upper

117 100

82 67.5 51.5 77.3

119 33.1 25.5 38.3



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

1200000

1000000

800000

600000

400000

200000

0

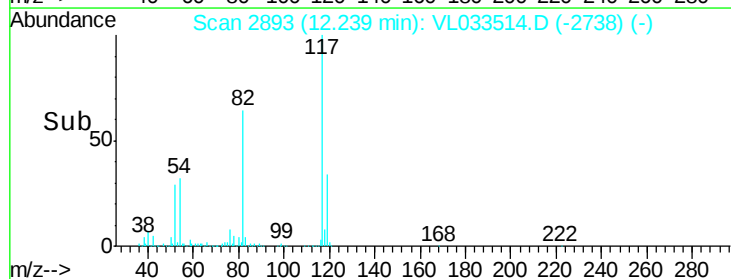
12.15

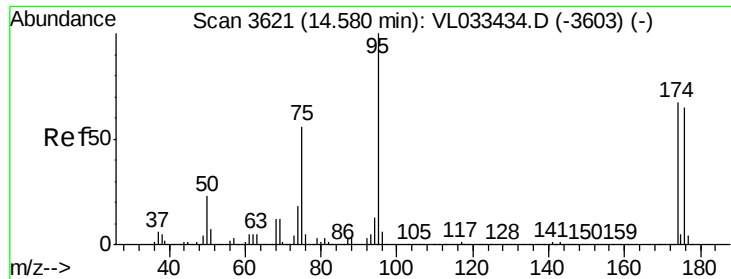
12.20

12.25

12.30

Time-->





#68

1-Bromo-4-Fluorobenzene

Concen: 9.83 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. -0.00 min

Lab File: VL033514.D

Acq: 29 Mar 2019 22:52

Instrument :

MSVOA_L

ClientSampleId :

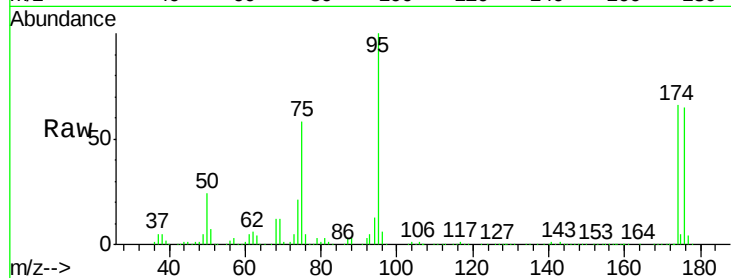
Tot Ion: 95 Resp: 1403232

Ion Ratio Lower Upper

95 100

174 66.3 52.9 79.3

175 4.7 3.8 5.6



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

