

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032919\
 Data File : VL033499.D
 Acq On : 29 Mar 2019 12:54
 Operator : SY/AP
 Sample : OC032719 CAN 10266
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 30 01:08:58 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	866292	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2184614	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2099473	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1610242	9.78	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.22	85	13389	0.11	ppbv	99
4) Chloromethane	3.17	50	11962	0.23	ppbv #	80
5) Vinyl Chloride	3.29	62	6209	0.12	ppbv	91
6) Bromomethane	3.51	94	1382	0.04	ppbv	94
7) Chloroethane	3.60	64	1132	0.06	ppbv #	41
8) Dichlorotetrafluoroethane	3.22	85	13389	0.10	ppbv	99
9) Propene	3.03	41	3826	0.09	ppbv #	16
10) Heptane	8.25	43	5748	0.05	ppbv #	52
12) 1,1,2-Trichlorotrifluoroet	4.55	101	9550	0.09	ppbv #	76
13) Ethanol	3.65	45	473	0.04	ppbv #	18
14) Bromoethene	3.78	108	1848	0.04	ppbv #	6
16) 1,3-Butadiene	3.36	39	5436	0.13	ppbv	89
19) Isopropyl Alcohol	4.05	45	8560	0.13	ppbv #	95
20) Methylene Chloride	4.40	84	56691	1.28	ppbv	88
23) Vinyl Acetate	5.15	43	5472	0.04	ppbv #	88
24) 1,1-Dichloroethane	5.08	63	10508	0.09	ppbv #	88
25) Ethyl Acetate	5.78	43	36715	0.19	ppbv #	91
26) Hexane	5.78	57	34529	0.40	ppbv #	50
27) Carbon Disulfide	4.62	76	4356	0.04	ppbv #	47
29) Chloroform	5.84	83	15550	0.11	ppbv	95
30) Cyclohexane	7.25	84	4234	0.06	ppbv #	8
31) cis-1,2-Dichloroethene	5.63	61	8390	0.10	ppbv	93
32) 1,1,1-Trichloroethane	6.62	97	13814	0.10	ppbv	98
34) 2-Butanone	5.35	43	12582	0.10	ppbv	92
35) Carbon Tetrachloride	7.13	117	8841	0.06	ppbv #	94
36) Benzene	7.00	78	17972	0.10	ppbv #	94
37) 1,2-Dichloroethane	6.41	62	6170	0.05	ppbv #	84
38) Trichloroethene	7.96	130	6695	0.10	ppbv #	77
39) 1,2-Dichloropropane	7.29	63	543591	7.57	ppbv #	24
42) Bromodichloromethane	7.91	83	6674	0.04	ppbv #	98
44) 2,2,4-Trimethylpentane	7.98	57	14439	0.05	ppbv #	45
45) t-1,3-Dichloropropene	9.42	75	2865	0.03	ppbv	90
46) cis-1,3-Dichloropropene	8.83	75	3297	0.03	ppbv #	42
47) 1,1,2-Trichloroethane	9.61	97	7673	0.09	ppbv #	63
48) Dibromochloromethane	10.45	129	4171	0.03	ppbv #	1
49) Bromoform	13.19	173	5008	0.04	ppbv #	69
53) Toluene	9.94	91	8793	0.04	ppbv #	21
56) 1,1,1,2-Tetrachloroethane	12.27	131	4556	0.05	ppbv #	10
57) Chlorobenzene	12.29	112	5533	0.03	ppbv #	30
58) Ethyl Benzene	12.86	91	11635	0.04	ppbv	94
60) o-Xylene	13.84	91	9054	0.04	ppbv #	33

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

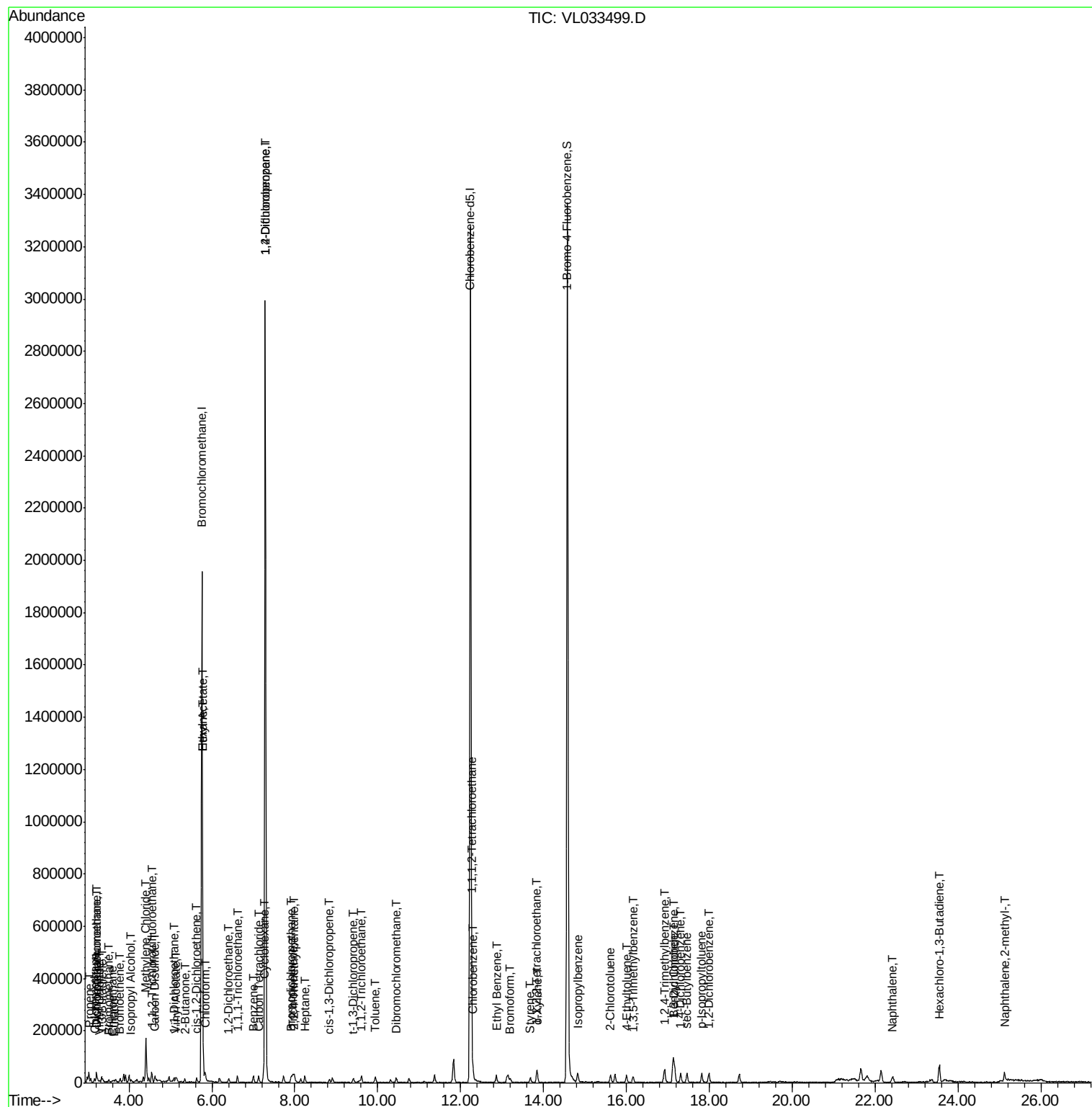
61) Styrene	13.68	104	7041	0.04	ppbv #	65
62) Isopropylbenzene	14.82	105	13990	0.04	ppbv #	54
63) 1,1,2,2-Tetrachloroethane	13.83	83	18403	0.10	ppbv	100
66) Benzyl Chloride	17.15	91	4757	0.03	ppbv #	82
67) sec-Butylbenzene	17.46	105	19614	0.05	ppbv #	59
69) p-Isopropyltoluene	17.82	119	13463	0.04	ppbv #	70
71) 2-Chlorotoluene	15.61	91	9907	0.04	ppbv #	45
72) 4-Ethyltoluene	16.00	105	19131	0.07	ppbv #	96
73) 1,3,5-Trimethylbenzene	16.15	105	9068	0.03	ppbv #	85
74) 1,2,4-Trimethylbenzene	16.93	105	16578	0.06	ppbv #	81
75) 1,3-Dichlorobenzene	17.16	146	6769	0.04	ppbv #	23
76) 1,4-Dichlorobenzene	17.31	146	9535	0.06	ppbv #	25
77) 1,2-Dichlorobenzene	17.99	146	7071	0.04	ppbv #	1
78) Hexachloro-1,3-Butadiene	23.54	225	9850	0.09	ppbv #	19
79) Naphthalene	22.41	128	7930	0.03	ppbv #	92
80) Naphthalene,2-methyl-	25.12	142	21198	0.26	ppbv	94

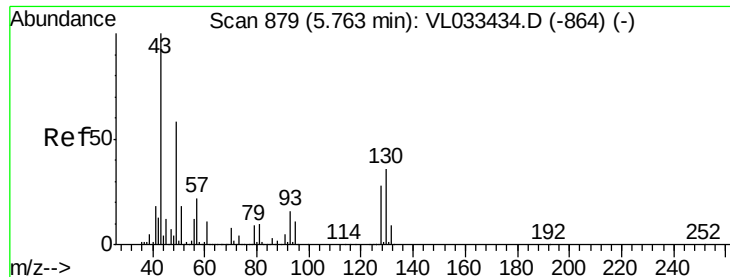
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033499.D

Acq: 29 Mar 2019 12:54

Instrument :

MSVOA_L

ClientSampleId :

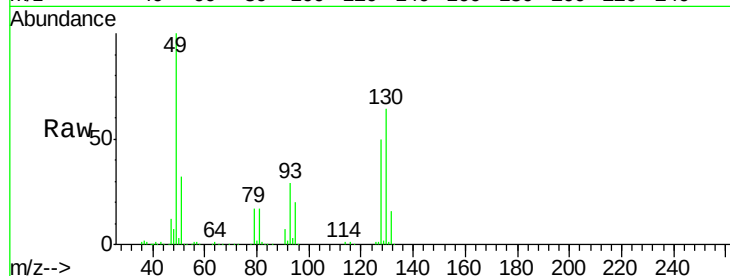
Tot Ion: 49 Resp: 866292

Ion Ratio Lower Upper

49 100

128 50.3 24.0 72.0

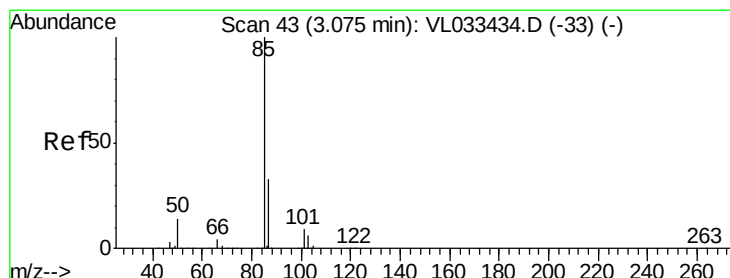
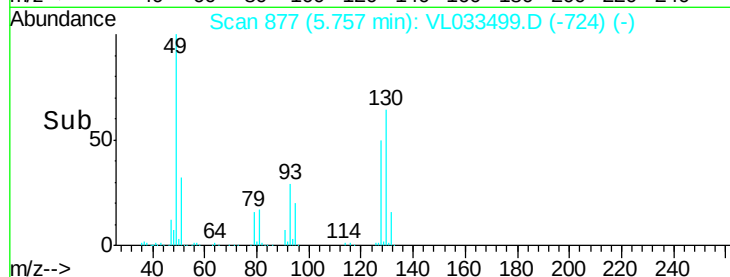
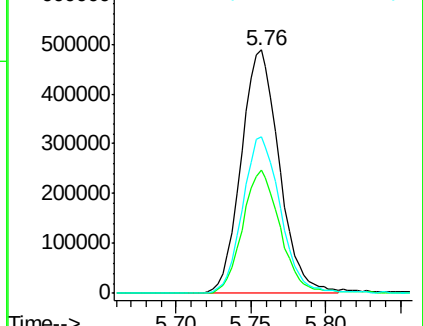
130 65.0 31.2 93.6



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



#2

Dichlorodifluoromethane

Concen: 0.11 ppbv

RT: 3.22 min Scan# 87

Delta R.T. 0.14 min

Lab File: VL033499.D

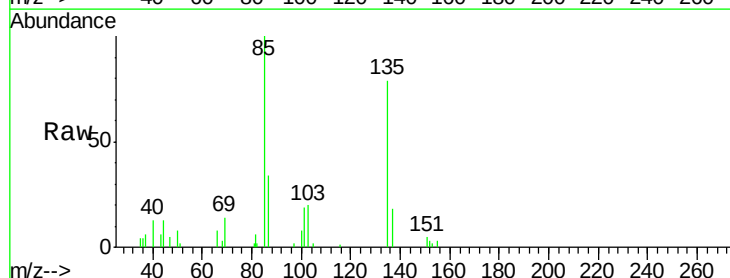
Acq: 29 Mar 2019 12:54

Tgt Ion: 85 Resp: 13389

Ion Ratio Lower Upper

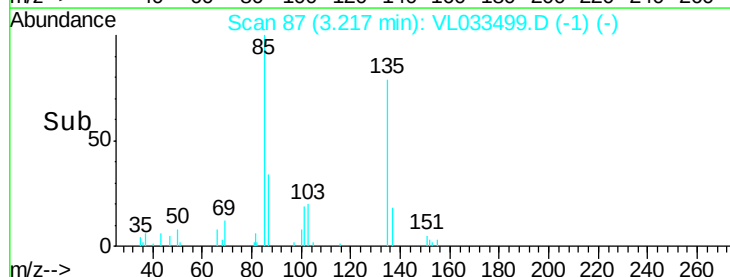
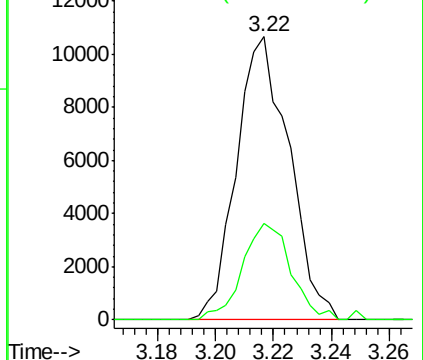
85 100

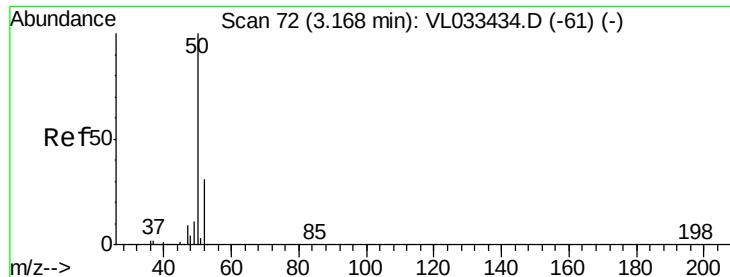
87 33.9 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.23 ppbv

RT: 3.17 min Scan# 71

Delta R.T. -0.00 min

Lab File: VL033499.D

Acq: 29 Mar 2019 12:54

Instrument :

MSVOA_L

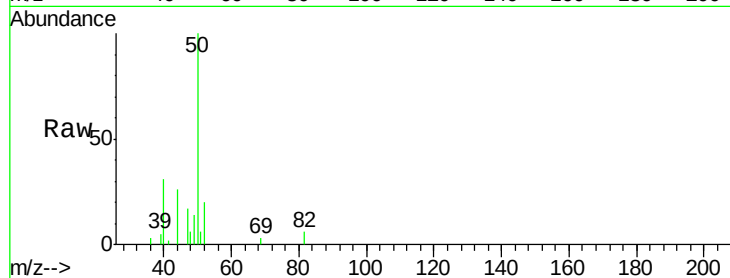
ClientSampleId :

Tot Ion: 50 Resp: 11962

Ion Ratio Lower Upper

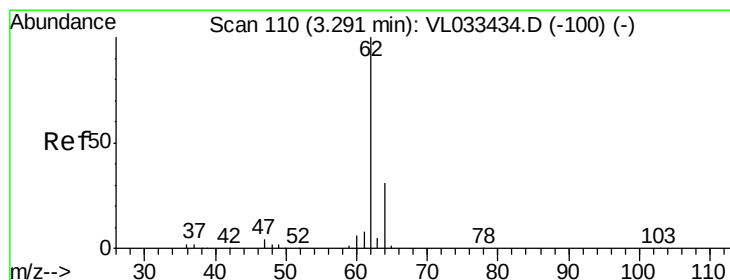
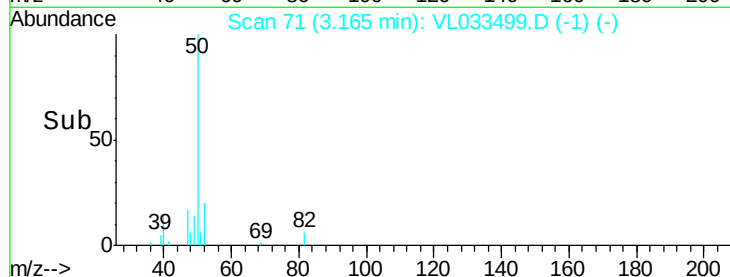
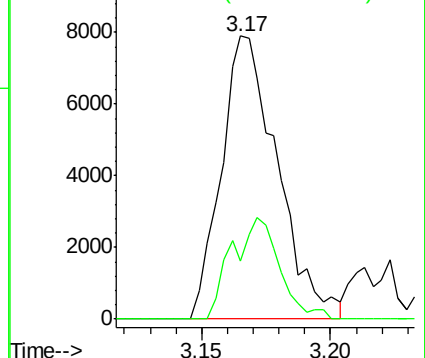
50 100

52 20.4 25.0 37.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#5

Vinyl Chloride

Concen: 0.12 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033499.D

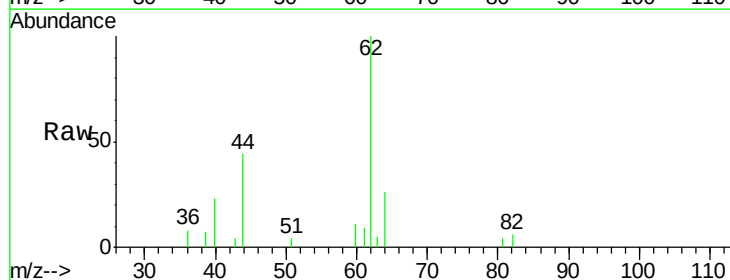
Acq: 29 Mar 2019 12:54

Tgt Ion: 62 Resp: 6209

Ion Ratio Lower Upper

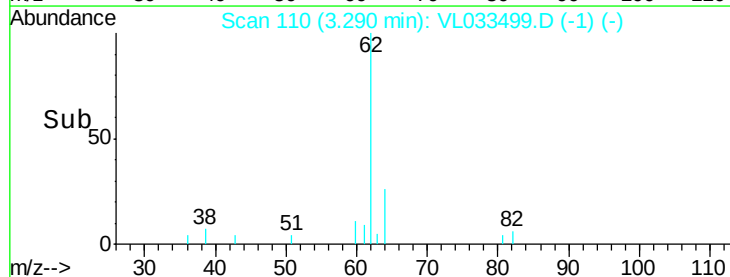
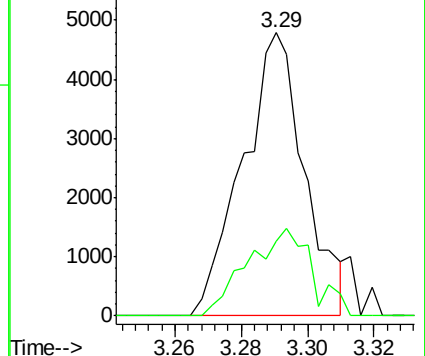
62 100

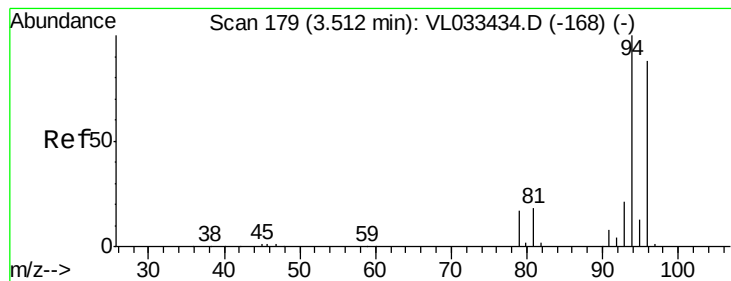
64 26.2 24.9 37.3



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0





#6

Bromomethane

Concen: 0.04 ppbv

RT: 3.51 min Scan# 177

Delta R.T. -0.01 min

Lab File: VL033499.D

Acq: 29 Mar 2019 12:54

Instrument :

MSVOA_L

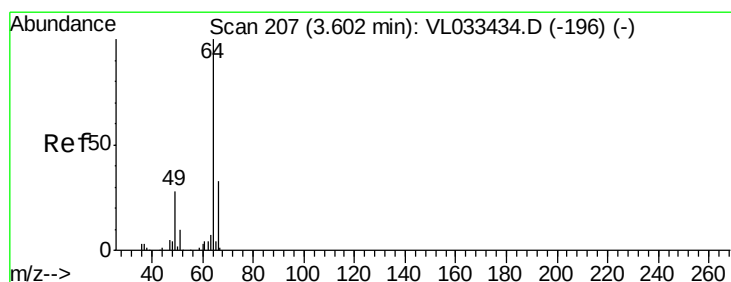
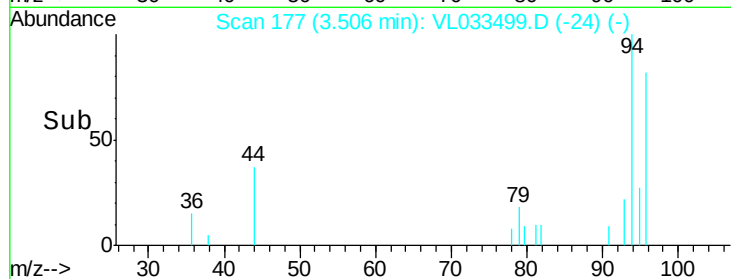
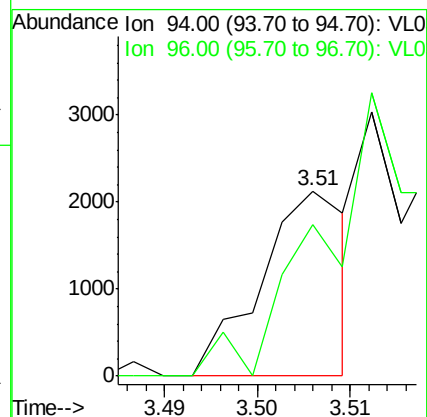
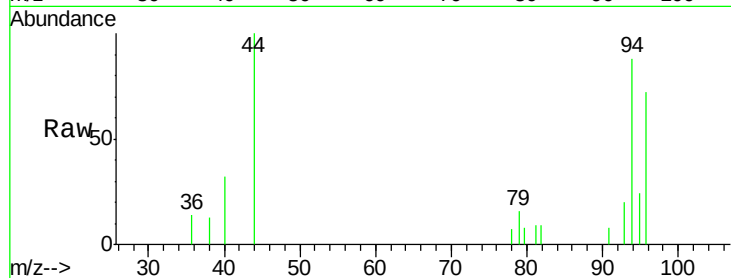
ClientSampled :

Tot Ion: 94 Resp: 1382

Ion Ratio Lower Upper

94 100

96 81.9 70.2 105.2



#7

Chloroethane

Concen: 0.06 ppbv

RT: 3.60 min Scan# 207

Delta R.T. -0.00 min

Lab File: VL033499.D

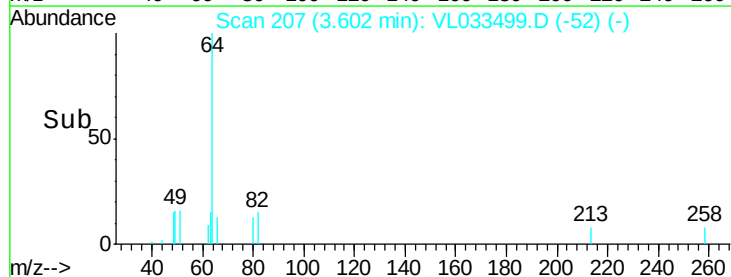
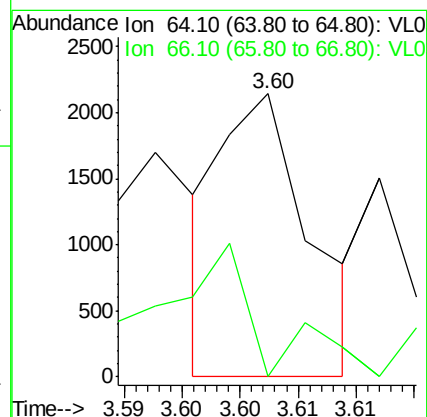
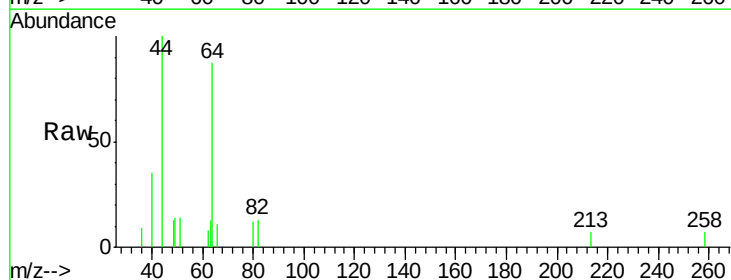
Acq: 29 Mar 2019 12:54

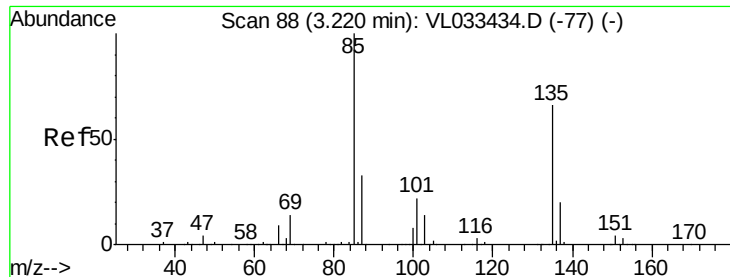
Tgt Ion: 64 Resp: 1132

Ion Ratio Lower Upper

64 100

66 0.0 26.7 40.1#





#8

Dichlorotetrafluoroethane

Concen: 0.10 ppbv

RT: 3.22 min Scan# 87

Delta R.T. -0.00 min

Lab File: VL033499.D

Acq: 29 Mar 2019 12:54

Instrument :

MSVOA_L

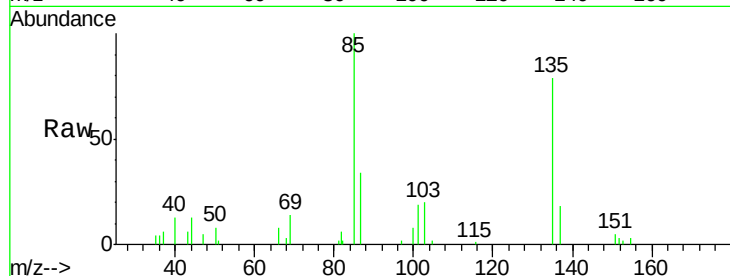
ClientSampleId :

Tot Ion: 85 Resp: 13389

Ion Ratio Lower Upper

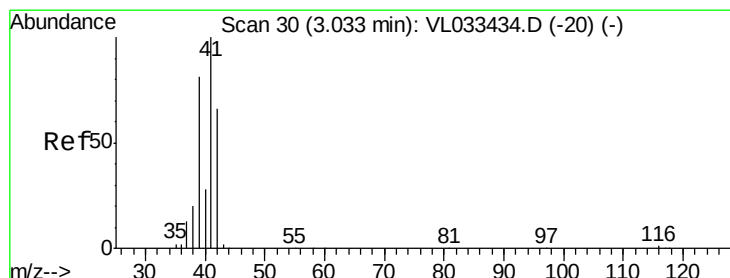
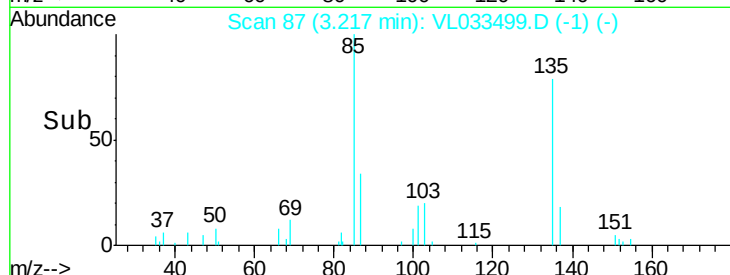
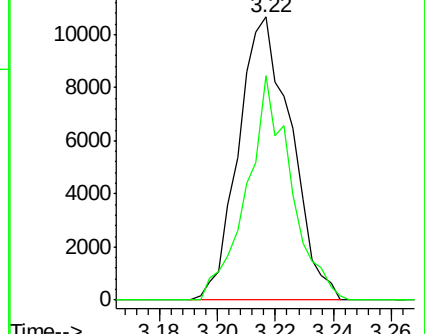
85 100

135 66.9 54.0 81.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V



#9

Propene

Concen: 0.09 ppbv

RT: 3.03 min Scan# 29

Delta R.T. -0.00 min

Lab File: VL033499.D

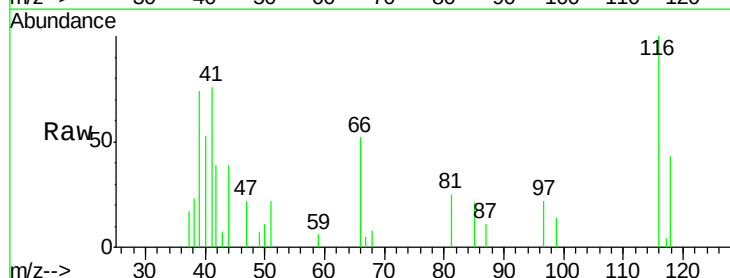
Acq: 29 Mar 2019 12:54

Tgt Ion: 41 Resp: 3826

Ion Ratio Lower Upper

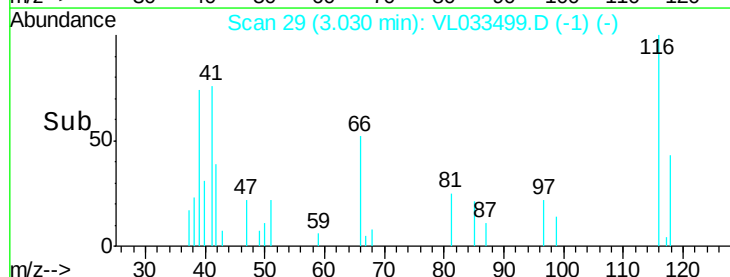
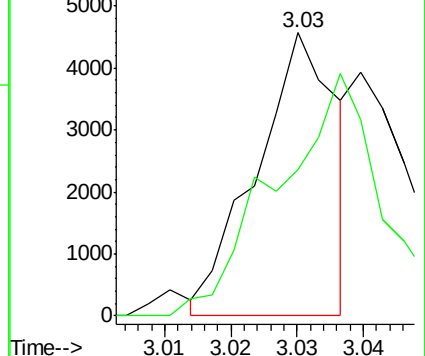
41 100

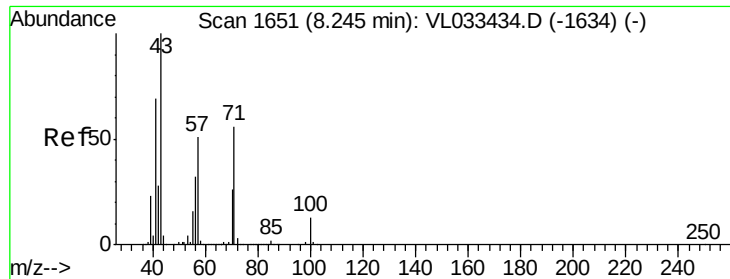
42 0.0 53.9 80.9#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

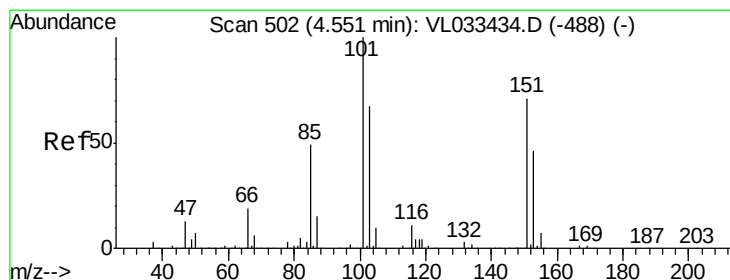
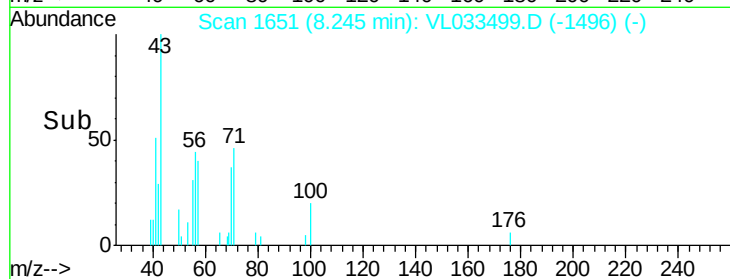
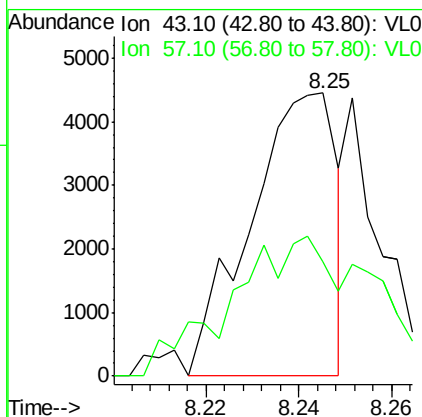
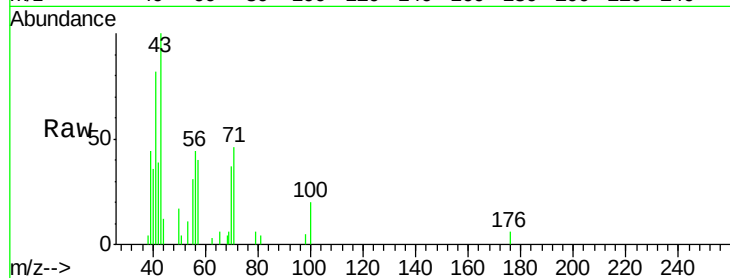




#10
 Heptane
 Concen: 0.05 ppbv
 RT: 8.25 min Scan# 1651
 Delta R.T. -0.00 min
 Lab File: VL033499.D
 Acq: 29 Mar 2019 12:54

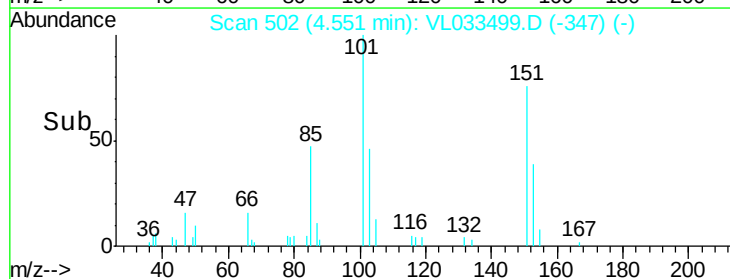
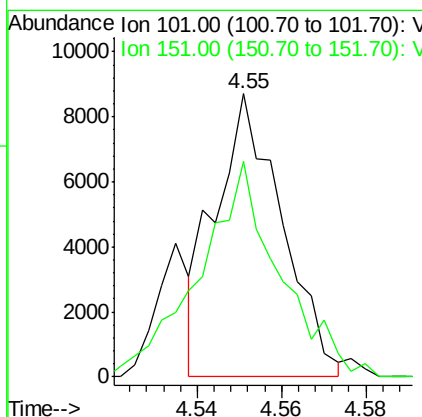
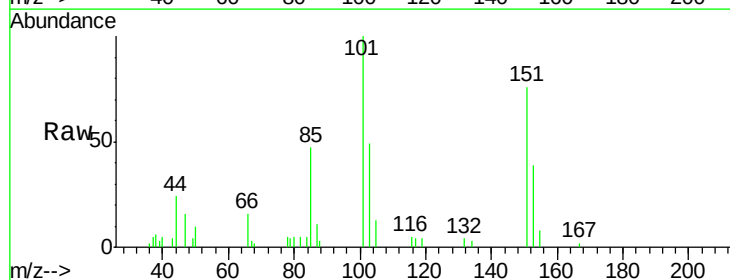
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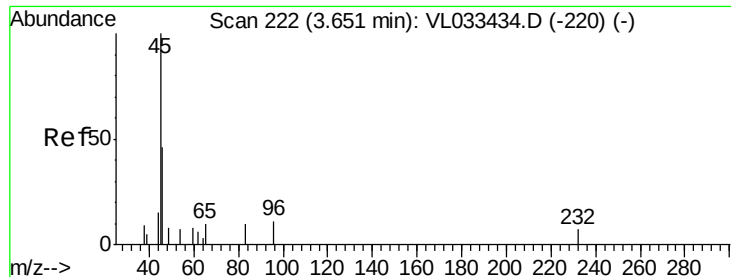
Tot Ion: 43 Resp: 5748
 Ion Ratio Lower Upper
 43 100
 57 84.1 40.6 60.8#



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.09 ppbv
 RT: 4.55 min Scan# 502
 Delta R.T. -0.00 min
 Lab File: VL033499.D
 Acq: 29 Mar 2019 12:54

Tgt Ion: 101 Resp: 9550
 Ion Ratio Lower Upper
 101 100
 151 91.9 57.7 86.5#

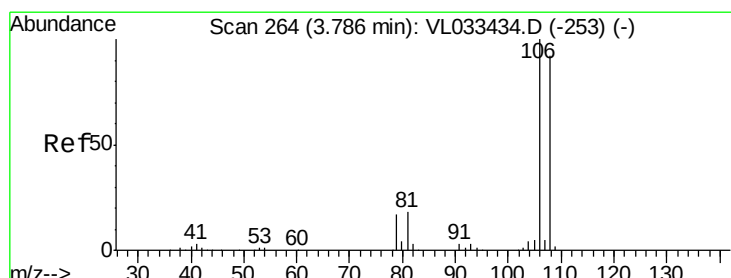
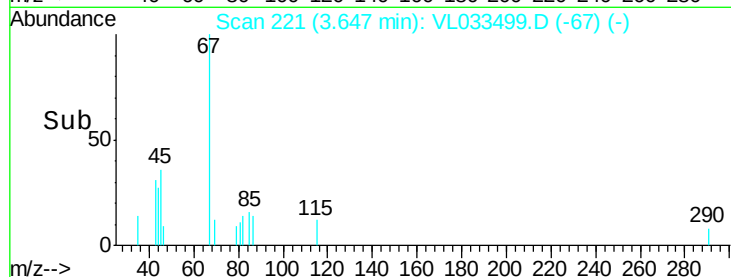
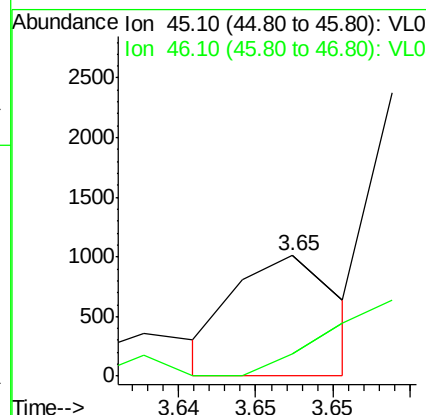
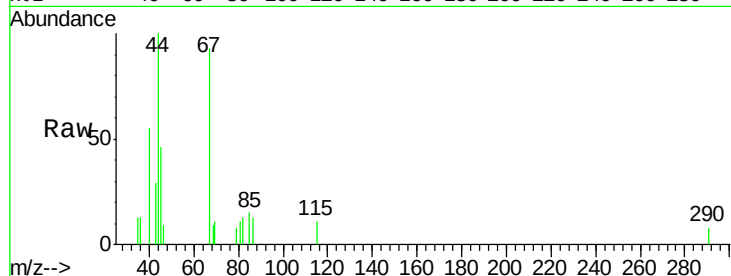




#13
Ethanol
Concen: 0.04 ppbv
RT: 3.65 min Scan# 221
Delta R.T. -0.00 min
Lab File: VL033499.D
Acq: 29 Mar 2019 12:54

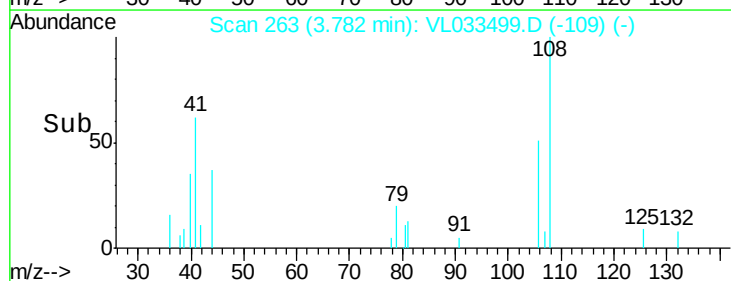
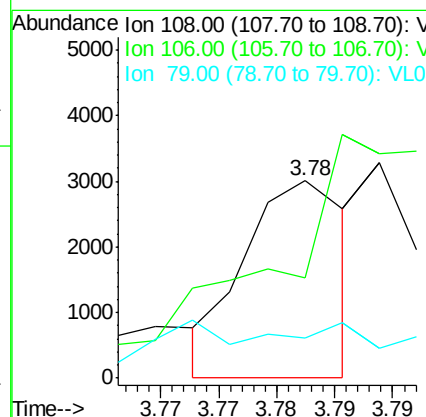
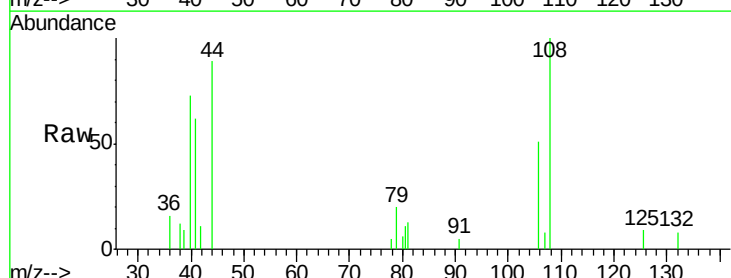
Instrument :
MSVOA_L
ClientSampleId :

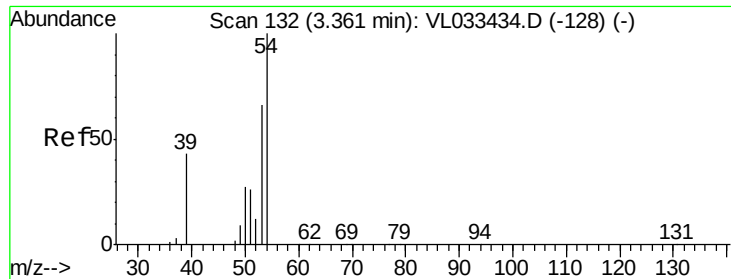
Tot Ion: 45 Resp: 473
Ion Ratio Lower Upper
45 100
46 0.0 25.4 101.8#



#14
Bromoethene
Concen: 0.04 ppbv
RT: 3.78 min Scan# 263
Delta R.T. -0.00 min
Lab File: VL033499.D
Acq: 29 Mar 2019 12:54

Tgt Ion: 108 Resp: 1848
Ion Ratio Lower Upper
108 100
106 0.0 86.4 129.6#
79 0.0 15.8 23.8#

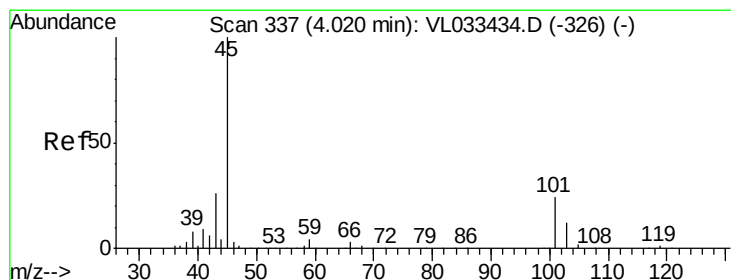
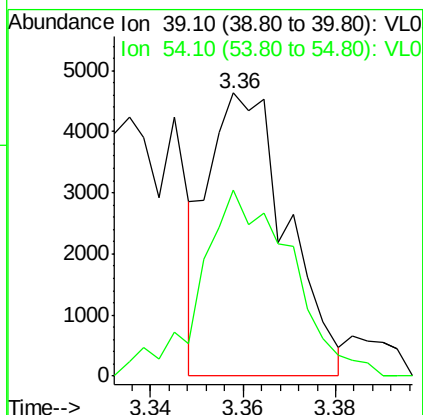
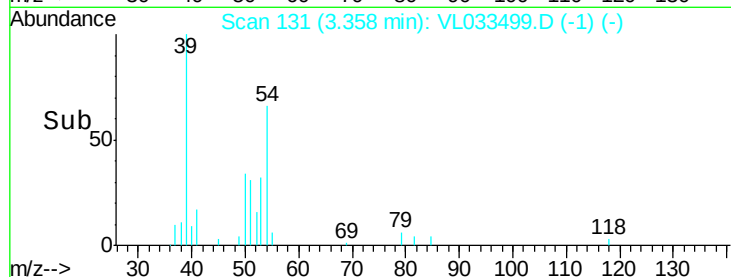
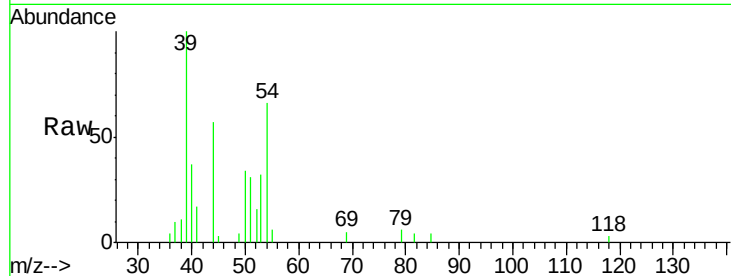




#16
 1,3-Butadiene
 Concen: 0.13 ppbv
 RT: 3.36 min Scan# 131
 Delta R.T. -0.00 min
 Lab File: VL033499.D
 Acq: 29 Mar 2019 12:54

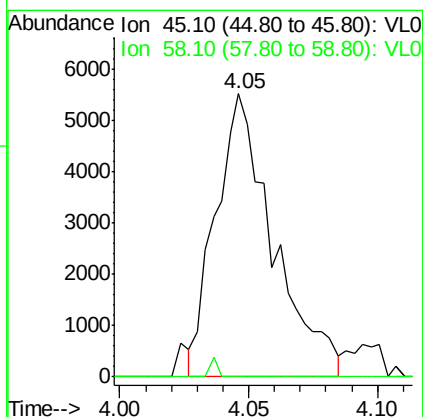
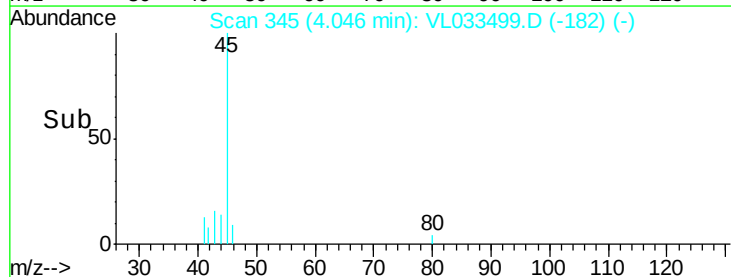
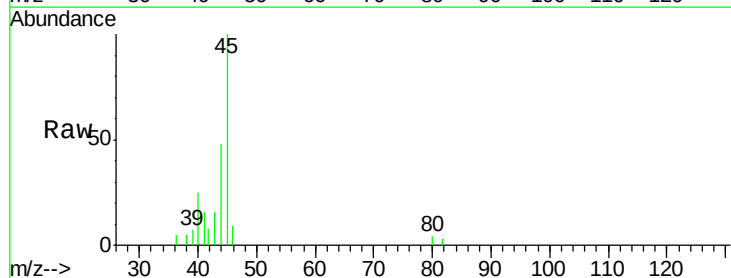
Instrument :
 MSVOA_L
 ClientSampleId :

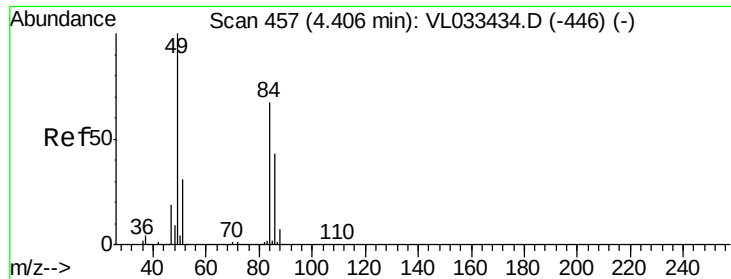
Tot Ion: 39 Resp: 5436
 Ion Ratio Lower Upper
 39 100
 54 76.7 69.4 104.2



#19
 Isopropyl Alcohol
 Concen: 0.13 ppbv
 RT: 4.05 min Scan# 345
 Delta R.T. 0.03 min
 Lab File: VL033499.D
 Acq: 29 Mar 2019 12:54

Tgt Ion: 45 Resp: 8560
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.4 2.2#

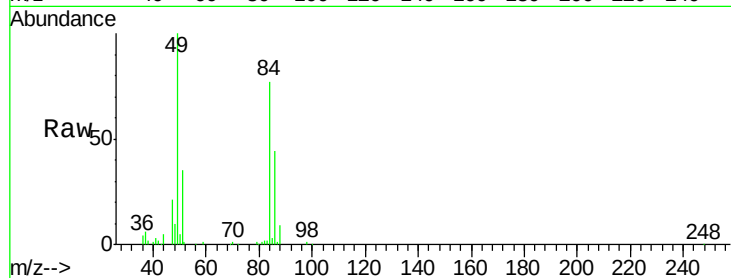




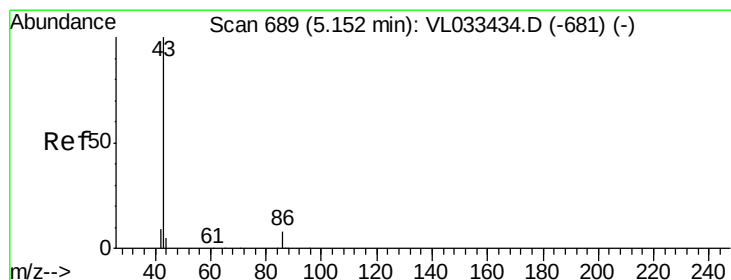
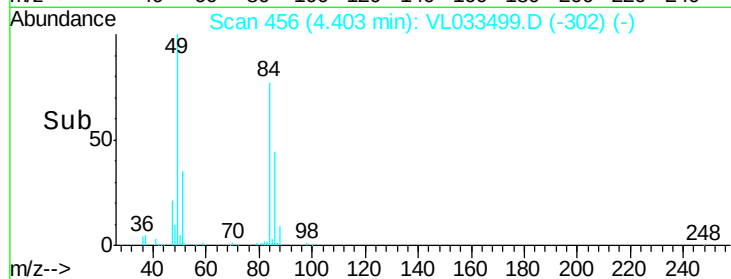
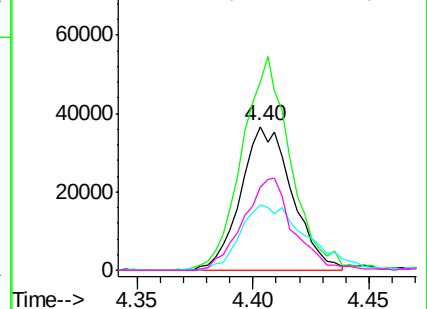
#20
Methvlene Chloride
Concen: 1.28 ppbv
RT: 4.40 min Scan# 456
Delta R.T. -0.00 min
Lab File: VL033499.D
Acq: 29 Mar 2019 12:54

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 84 Resp: 56691
Ion Ratio Lower Upper
84 100
49 129.0 120.0 180.0
51 46.3 36.7 55.1
86 58.0 51.9 77.9

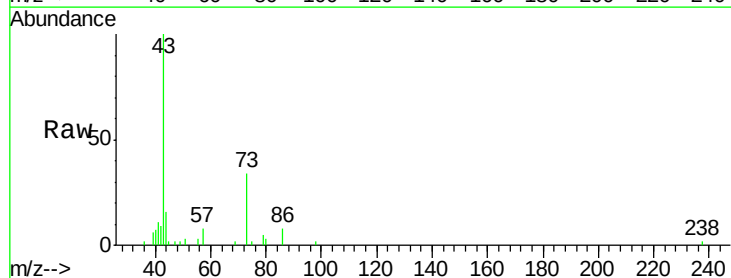


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

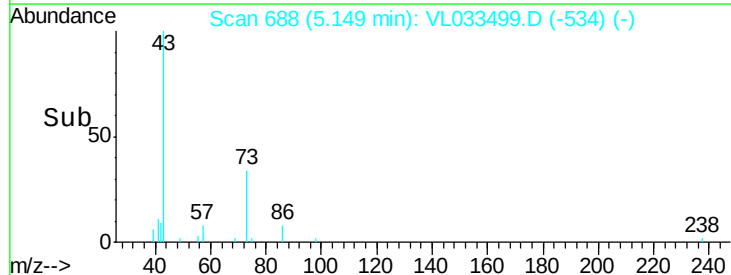
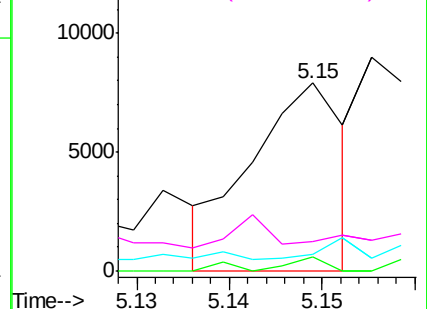


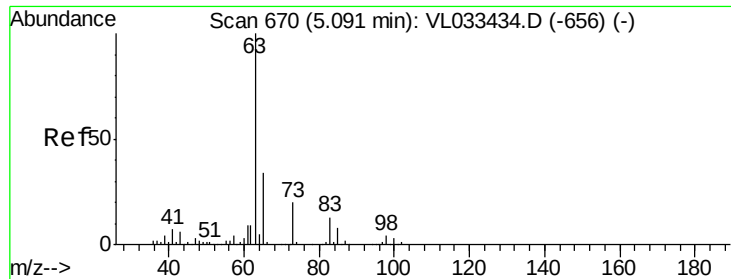
#23
Vinyl Acetate
Concen: 0.04 ppbv
RT: 5.15 min Scan# 688
Delta R.T. -0.00 min
Lab File: VL033499.D
Acq: 29 Mar 2019 12:54

Tgt Ion: 43 Resp: 5472
Ion Ratio Lower Upper
43 100
86 11.6 5.6 8.4#
42 3.6 8.0 12.0#
44 5.2 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





#24

1,1-Dichloroethane

Concen: 0.09 ppbv

RT: 5.08 min Scan# 668

Delta R.T. -0.01 min

Lab File: VL033499.D

Acq: 29 Mar 2019 12:54

Instrument :

MSVOA_L

ClientSampleId :

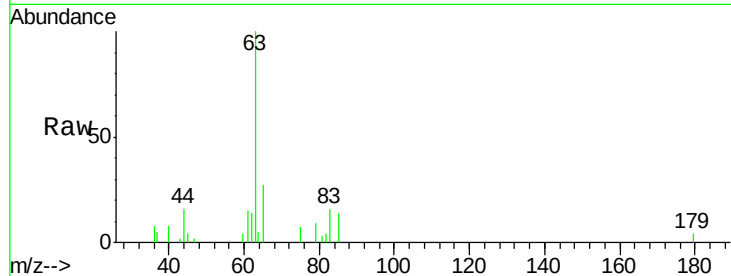
Tot Ion: 63 Resp: 10508

Ion Ratio Lower Upper

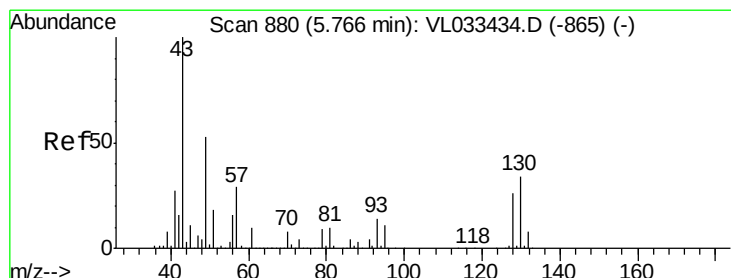
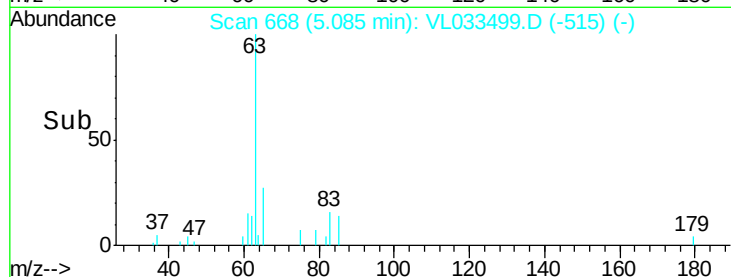
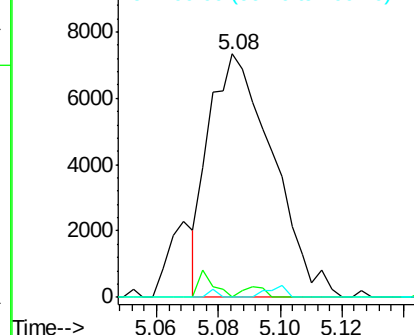
63 100

98 0.0 2.2 6.6#

100 0.0 1.5 4.4#



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0



#25

Ethyl Acetate

Concen: 0.19 ppbv

RT: 5.78 min Scan# 884

Delta R.T. 0.01 min

Lab File: VL033499.D

Acq: 29 Mar 2019 12:54

Tgt Ion: 43 Resp: 36715

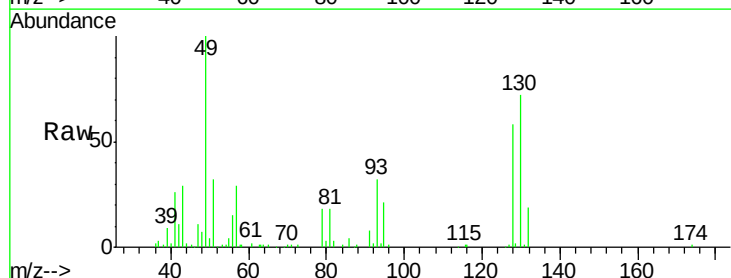
Ion Ratio Lower Upper

43 100

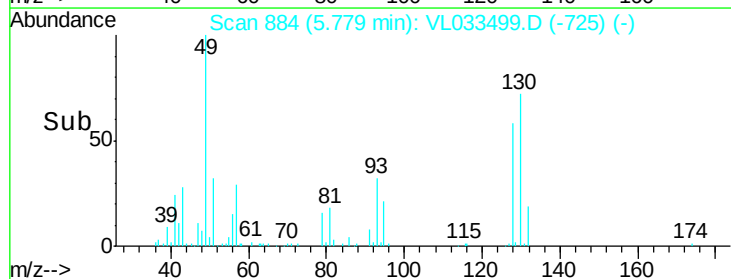
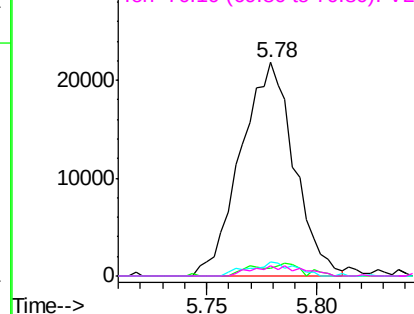
45 5.5 7.8 11.6#

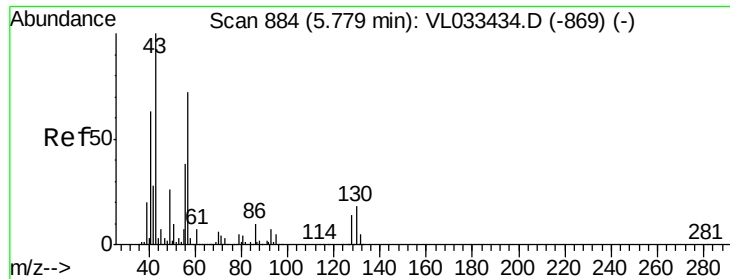
61 5.8 7.3 10.9#

70 4.7 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

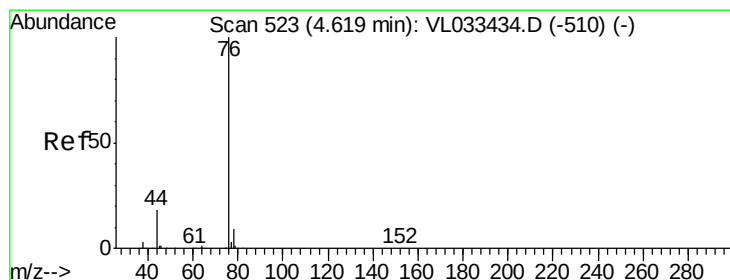
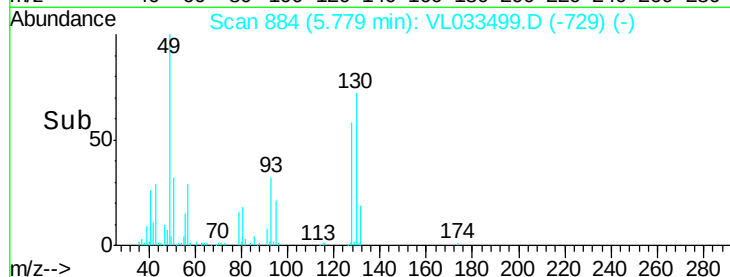
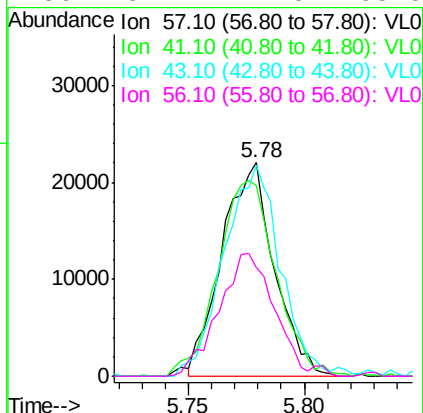
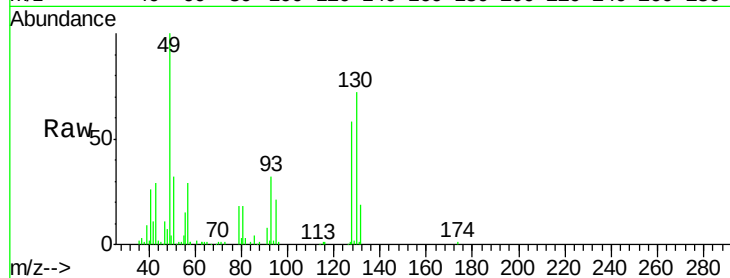




#26
Hexane
Concen: 0.40 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033499.D
Acq: 29 Mar 2019 12:54

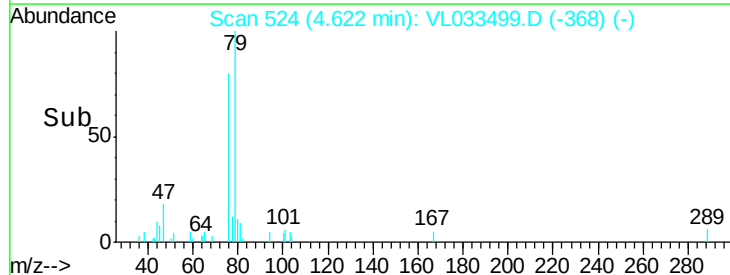
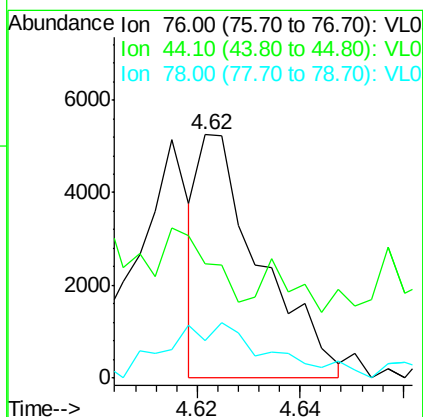
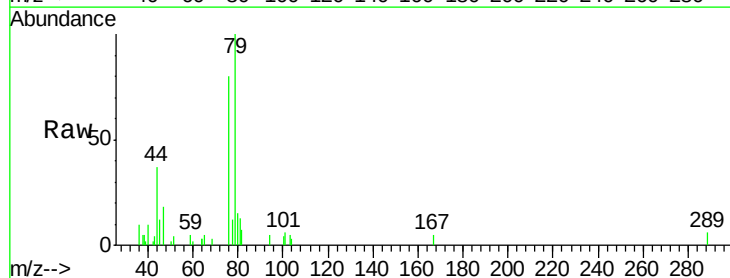
Instrument :
MSVOA_L
ClientSampleId :

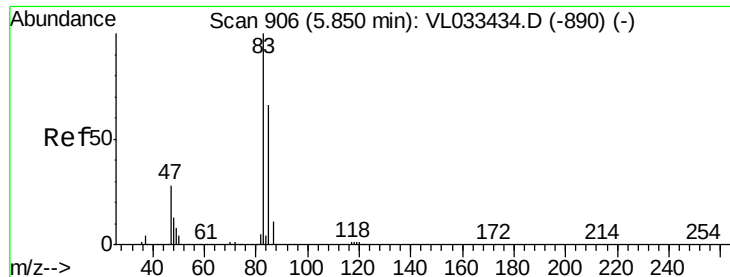
Tot Ion: 57 Resp: 34529
Ion Ratio Lower Upper
57 100
41 102.6 70.7 106.1
43 108.9 182.6 274.0#
56 62.1 42.0 63.0



#27
Carbon Disulfide
Concen: 0.04 ppbv
RT: 4.62 min Scan# 524
Delta R.T. 0.00 min
Lab File: VL033499.D
Acq: 29 Mar 2019 12:54

Tgt Ion: 76 Resp: 4356
Ion Ratio Lower Upper
76 100
44 0.0 14.8 22.2#
78 37.4 7.6 11.4#





#29

Chloroform

Concen: 0.11 ppbv

RT: 5.84 min Scan# 903

Delta R.T. -0.01 min

Lab File: VL033499.D

Acq: 29 Mar 2019 12:54

Instrument :

MSVOA_L

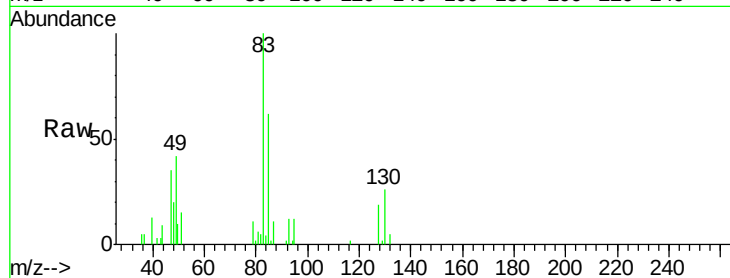
ClientSampleId :

Tot Ion: 83 Resp: 15550

Ion Ratio Lower Upper

83 100

85 61.8 52.6 79.0



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

5.84

10000

8000

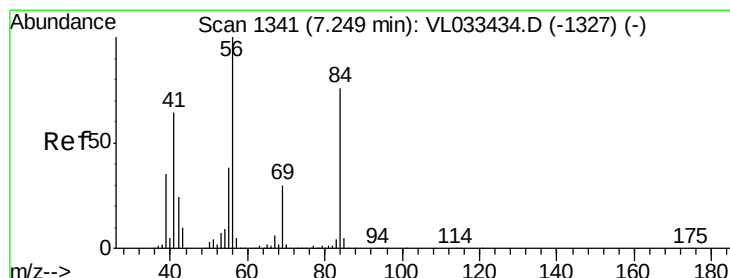
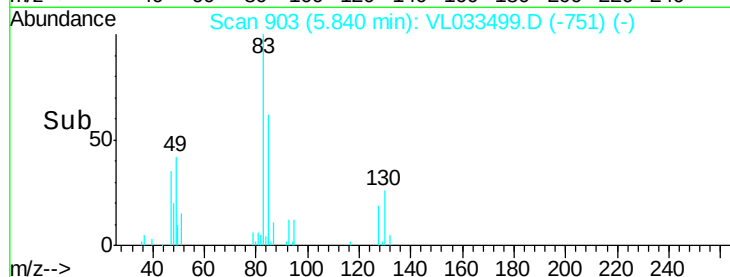
6000

4000

2000

0

Time-->



#30

Cyclohexane

Concen: 0.06 ppbv

RT: 7.25 min Scan# 1341

Delta R.T. -0.00 min

Lab File: VL033499.D

Acq: 29 Mar 2019 12:54

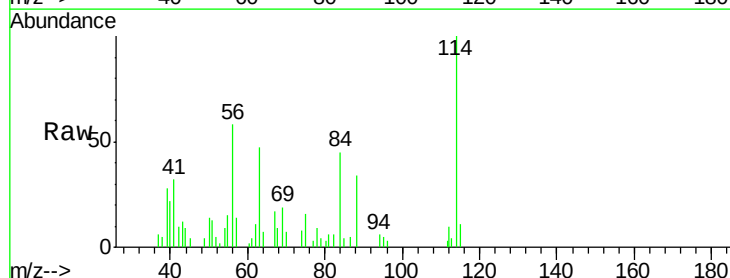
Tgt Ion: 84 Resp: 4234

Ion Ratio Lower Upper

84 100

56 0.0 109.7 164.5#

41 137.6 68.2 102.2#



Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

20000

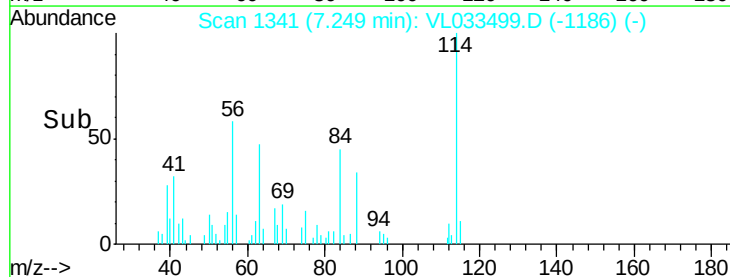
15000

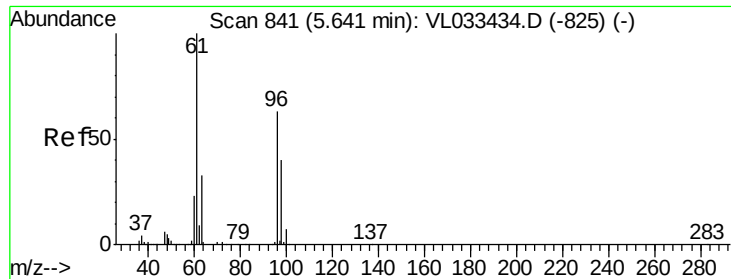
10000

5000

0

Time-->



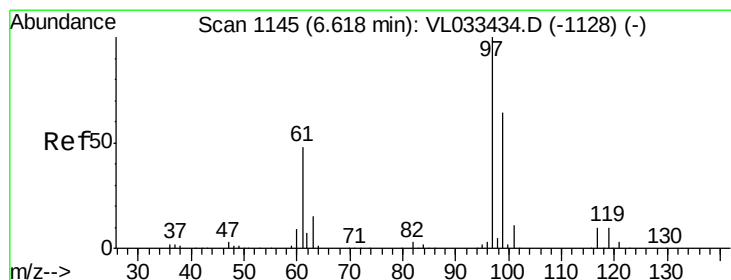
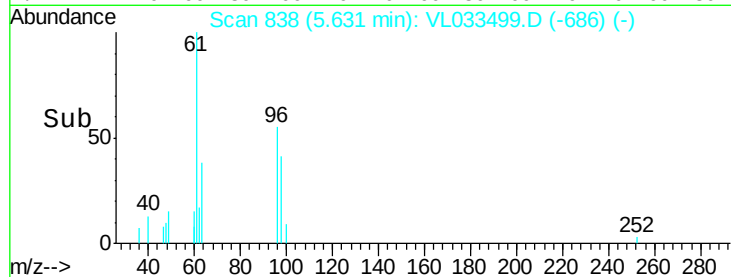
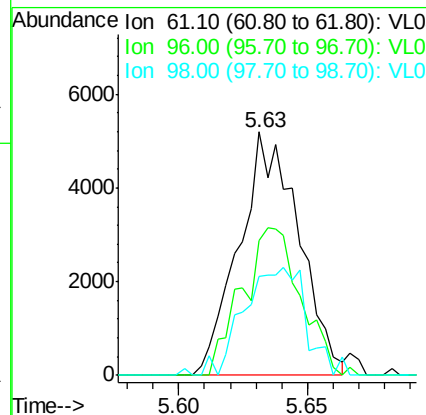
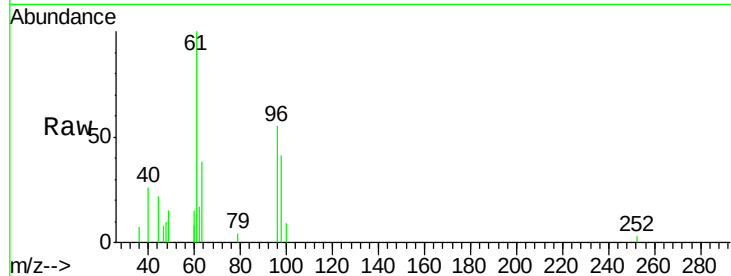


#31

cis-1,2-Dichloroethene
 Concen: 0.10 ppbv
 RT: 5.63 min Scan# 838
 Delta R.T. -0.01 min
 Lab File: VL033499.D
 Acq: 29 Mar 2019 12:54

Instrument :
 MSVOA_L
 ClientSampleId :

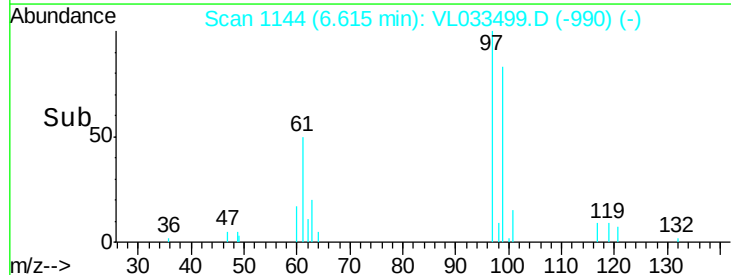
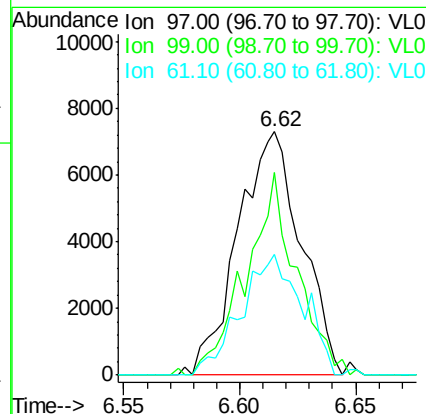
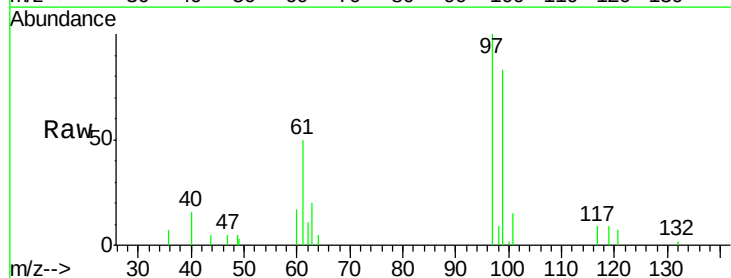
Tot Ion: 61 Resp: 8390
 Ion Ratio Lower Upper
 61 100
 96 55.4 50.6 76.0
 98 40.9 32.2 48.2

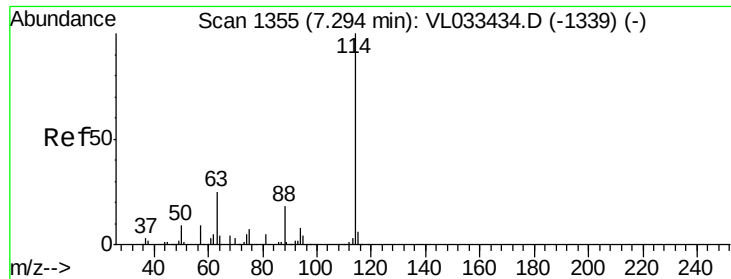


#32

1,1,1-Trichloroethane
 Concen: 0.10 ppbv
 RT: 6.62 min Scan# 1144
 Delta R.T. -0.00 min
 Lab File: VL033499.D
 Acq: 29 Mar 2019 12:54

Tgt Ion: 97 Resp: 13814
 Ion Ratio Lower Upper
 97 100
 99 66.7 51.5 77.3
 61 49.0 38.8 58.2

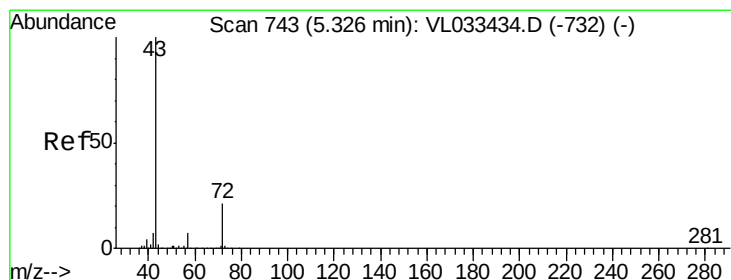
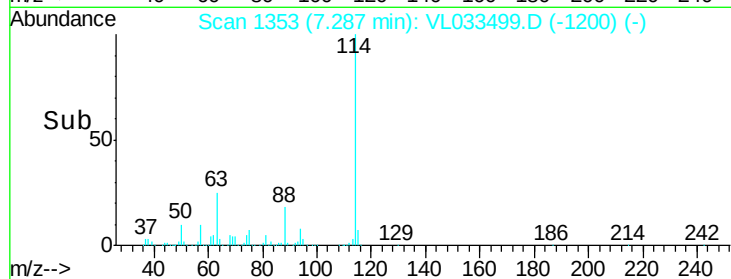
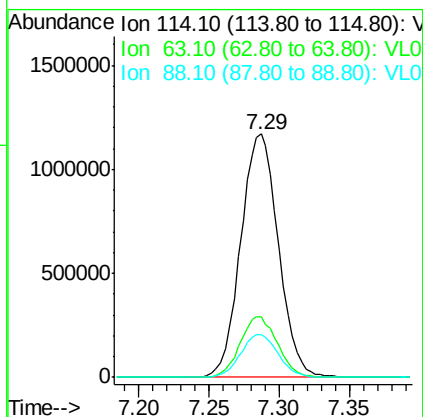
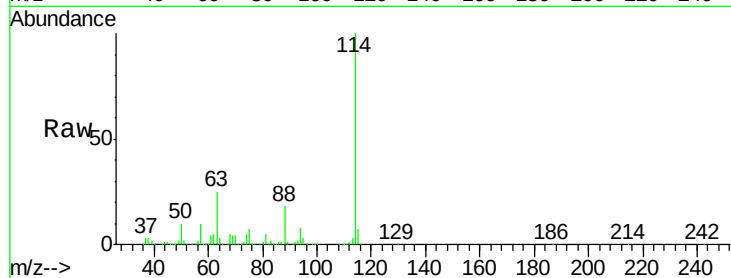




#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033499.D
 Acq: 29 Mar 2019 12:54

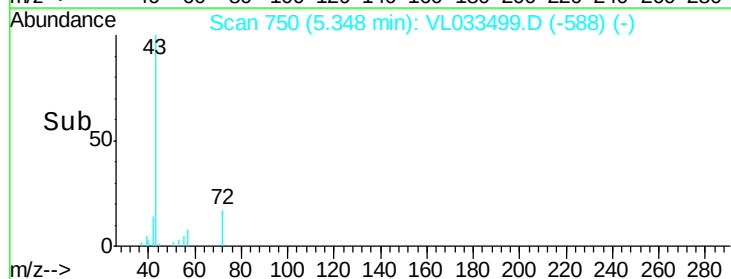
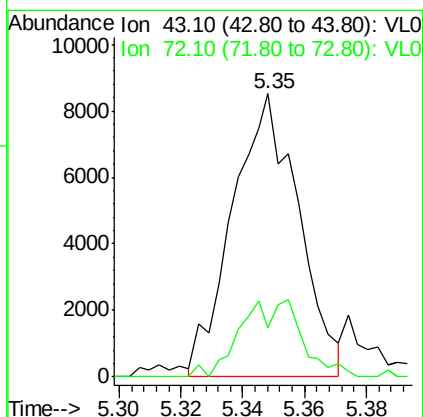
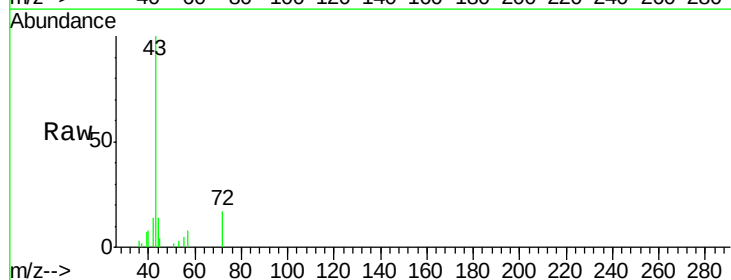
Instrument :
 MSVOA_L
 ClientSampleId :

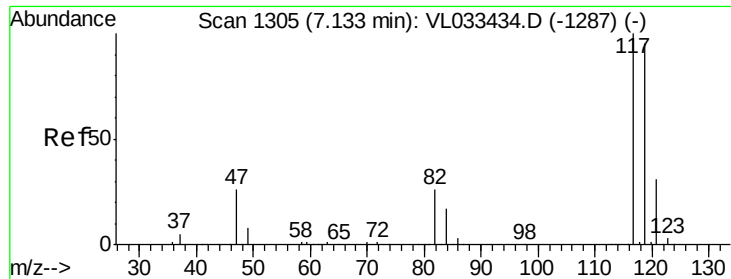
Tot Ion:114 Resp: 2184614
 Ion Ratio Lower Upper
 114 100
 63 25.1 21.5 32.3
 88 17.7 14.5 21.7



#34
 2-Butanone
 Concen: 0.10 ppbv
 RT: 5.35 min Scan# 750
 Delta R.T. 0.02 min
 Lab File: VL033499.D
 Acq: 29 Mar 2019 12:54

Tgt Ion: 43 Resp: 12582
 Ion Ratio Lower Upper
 43 100
 72 25.5 17.4 26.2





#35

Carbon Tetrachloride

Concen: 0.06 ppbv

RT: 7.13 min Scan# 1304

Delta R.T. -0.00 min

Lab File: VL033499.D

Acq: 29 Mar 2019 12:54

Instrument :
MSVOA_L
ClientSampleId :

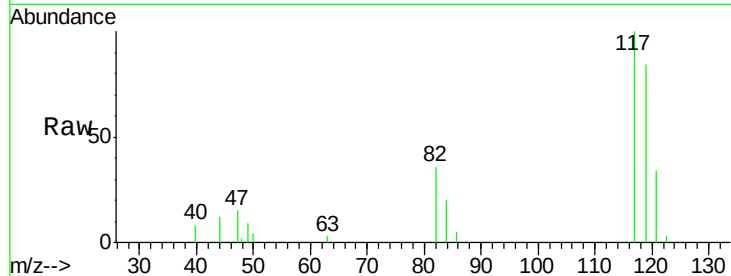
Tot Ion:117 Resp: 8841

Ion Ratio Lower Upper

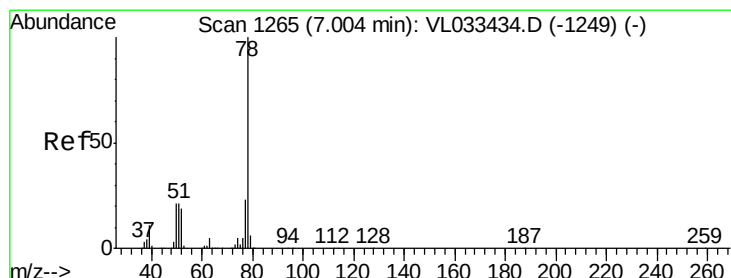
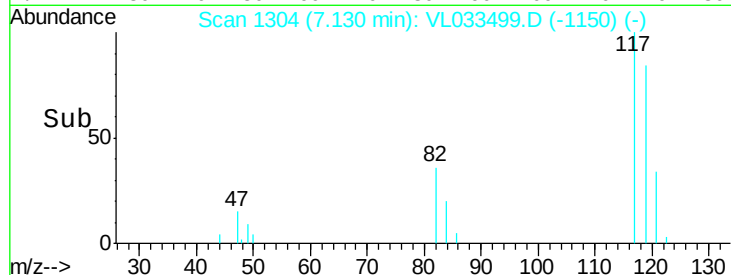
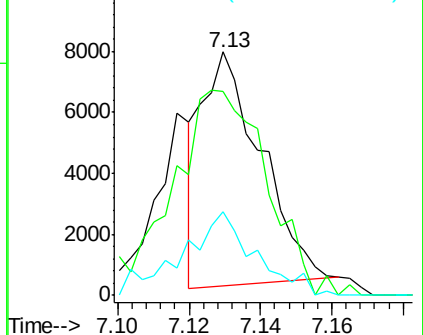
117 100

119 90.8 75.8 113.8

121 37.3 24.7 37.1#



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.10 ppbv

RT: 7.00 min Scan# 1265

Delta R.T. -0.00 min

Lab File: VL033499.D

Acq: 29 Mar 2019 12:54

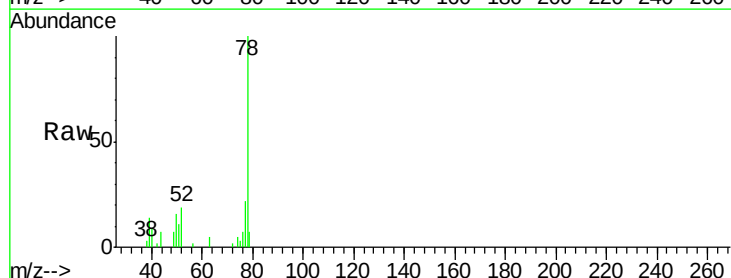
Tgt Ion: 78 Resp: 17972

Ion Ratio Lower Upper

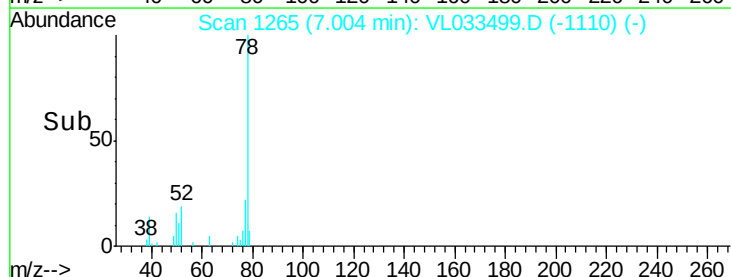
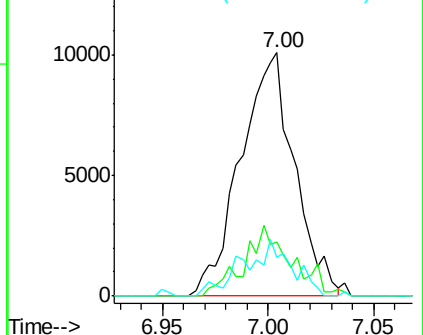
78 100

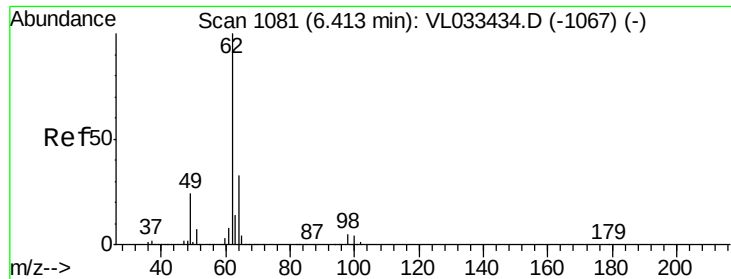
77 22.1 18.1 27.1

50 15.7 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

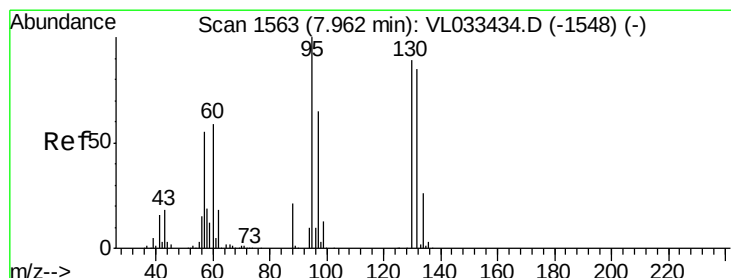
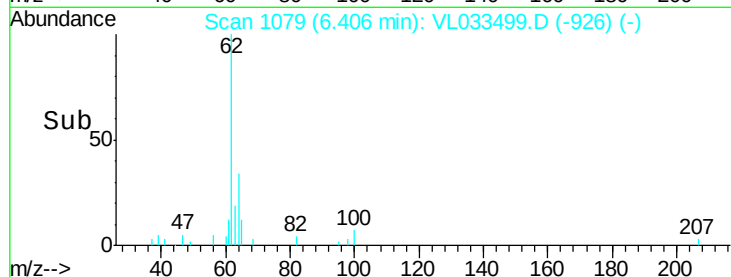
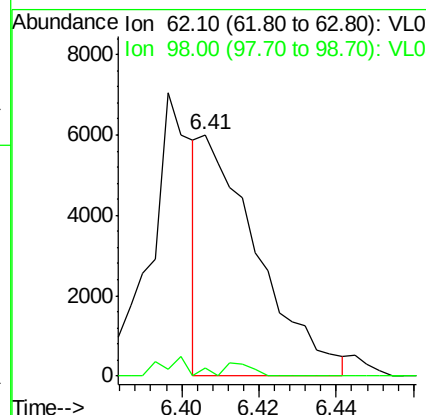
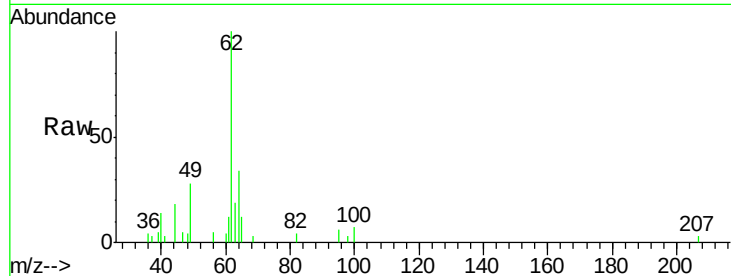




#37
 1,2-Dichloroethane
 Concen: 0.05 ppbv
 RT: 6.41 min Scan# 1079
 Delta R.T. -0.01 min
 Lab File: VL033499.D
 Acq: 29 Mar 2019 12:54

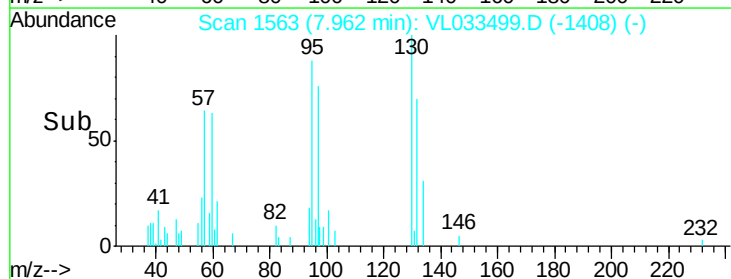
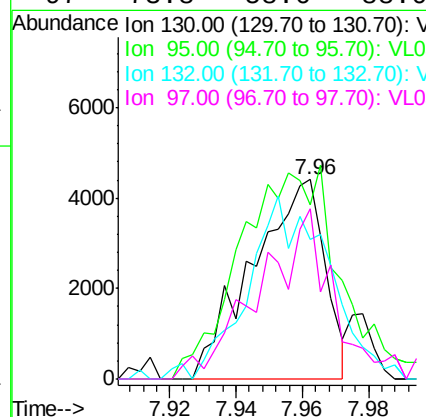
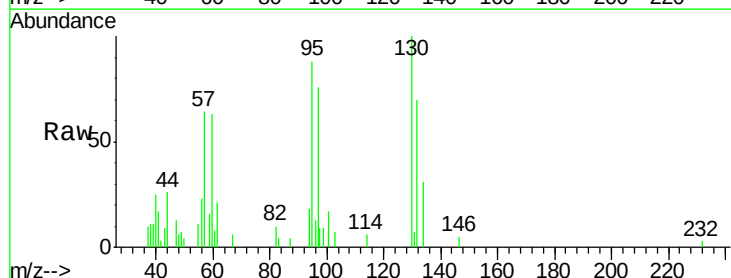
Instrument :
 MSVOA_L
 ClientSampleId :

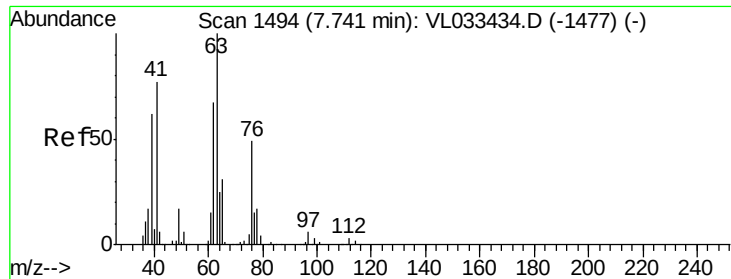
Tot Ion: 62 Resp: 6170
 Ion Ratio Lower Upper
 62 100
 98 0.0 4.4 6.6#



#38
 Trichloroethene
 Concen: 0.10 ppbv
 RT: 7.96 min Scan# 1563
 Delta R.T. -0.00 min
 Lab File: VL033499.D
 Acq: 29 Mar 2019 12:54

Tgt Ion: 130 Resp: 6695
 Ion Ratio Lower Upper
 130 100
 95 75.2 89.8 134.8#
 132 70.1 76.6 115.0#
 97 73.8 58.6 88.0

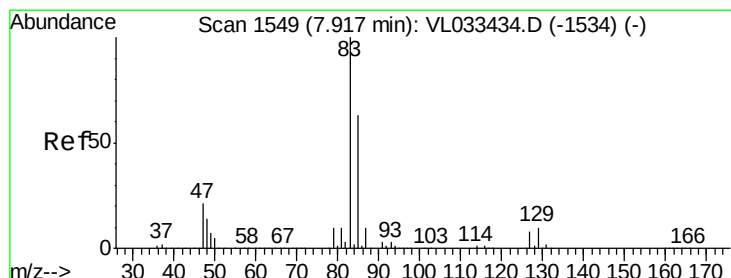
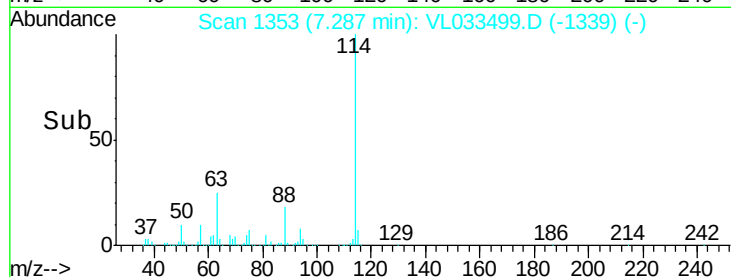
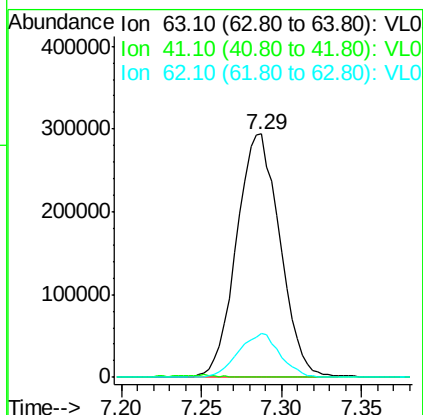
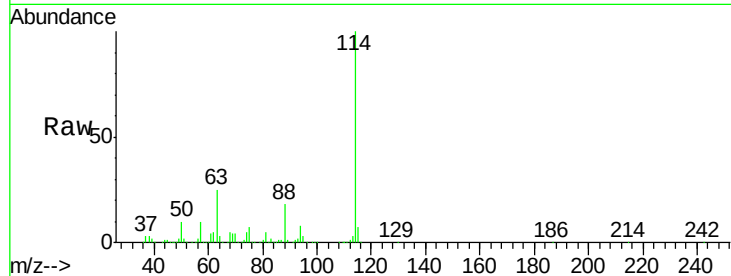




#39
 1,2-Dichloropropane
 Concen: 7.57 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.45 min
 Lab File: VL033499.D
 Acq: 29 Mar 2019 12:54

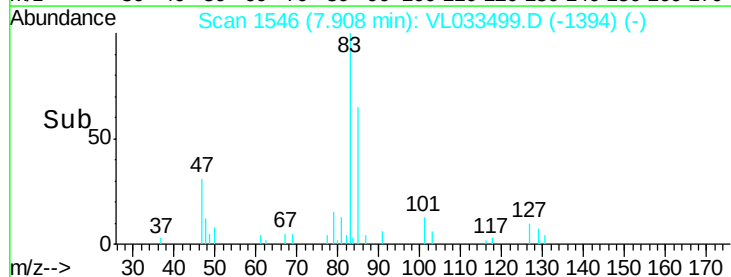
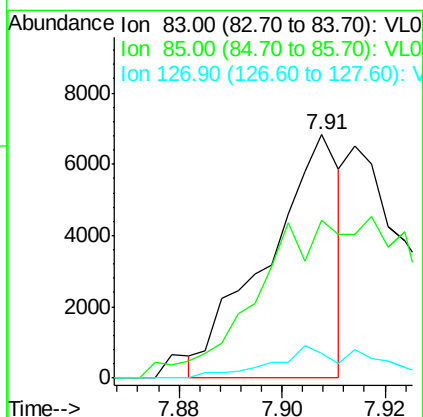
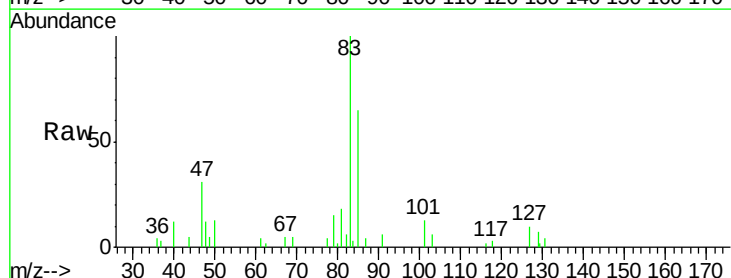
Instrument :
 MSVOA_L
 ClientSampleId :

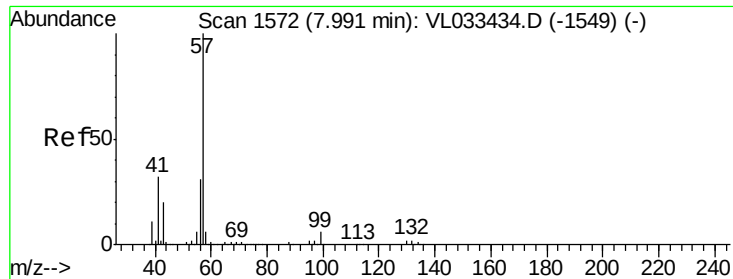
Tot Ion: 63 Resp: 543591
 Ion Ratio Lower Upper
 63 100
 41 0.0 61.2 91.8#
 62 18.1 54.0 81.0#



#42
 Bromodichloromethane
 Concen: 0.04 ppbv
 RT: 7.91 min Scan# 1546
 Delta R.T. -0.01 min
 Lab File: VL033499.D
 Acq: 29 Mar 2019 12:54

Tgt Ion: 83 Resp: 6674
 Ion Ratio Lower Upper
 83 100
 85 62.2 50.7 76.1
 127 11.0 6.6 9.8#





#44

2,2,4-Trimethylpentane

Concen: 0.05 ppbv

RT: 7.98 min Scan# 1570

Delta R.T. -0.01 min

Lab File: VL033499.D

Acq: 29 Mar 2019 12:54

Instrument :

MSVOA_L

ClientSampleId :

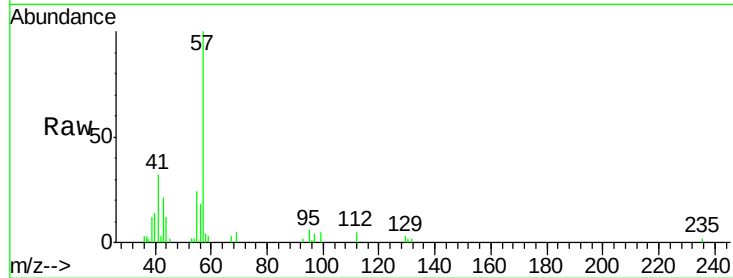
Tot Ion: 57 Resp: 14439

Ion Ratio Lower Upper

57 100

41 67.0 26.0 39.0#

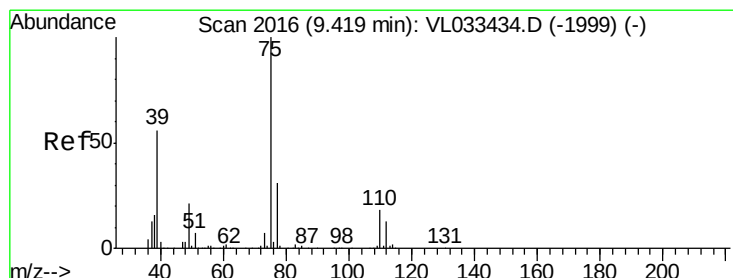
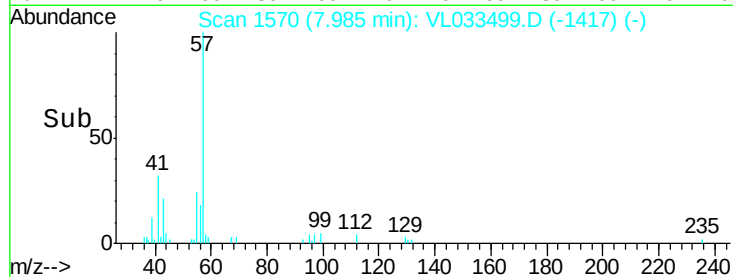
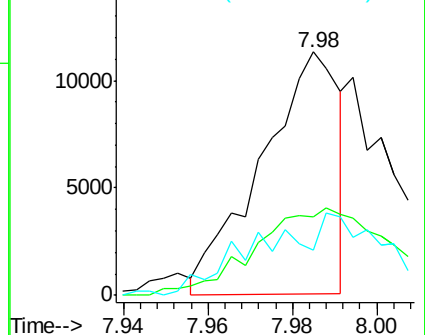
56 57.6 24.6 37.0#



Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#45

t-1,3-Dichloropropene

Concen: 0.03 ppbv

RT: 9.42 min Scan# 2015

Delta R.T. -0.00 min

Lab File: VL033499.D

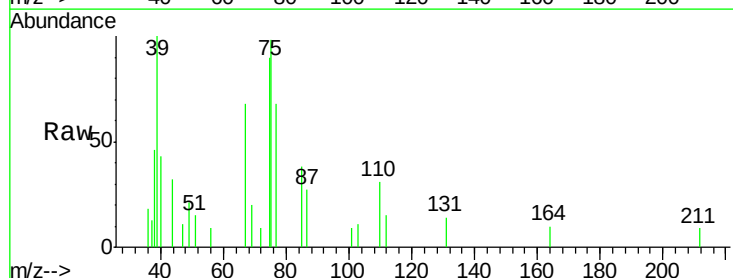
Acq: 29 Mar 2019 12:54

Tgt Ion: 75 Resp: 2865

Ion Ratio Lower Upper

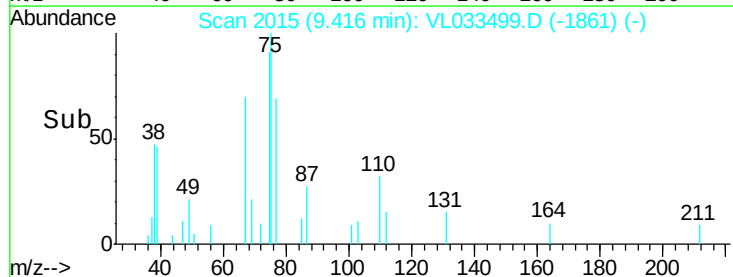
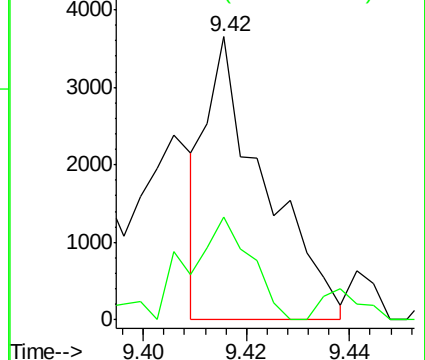
75 100

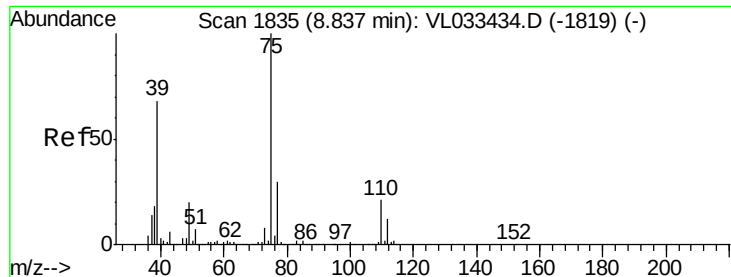
77 36.3 24.5 36.7



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

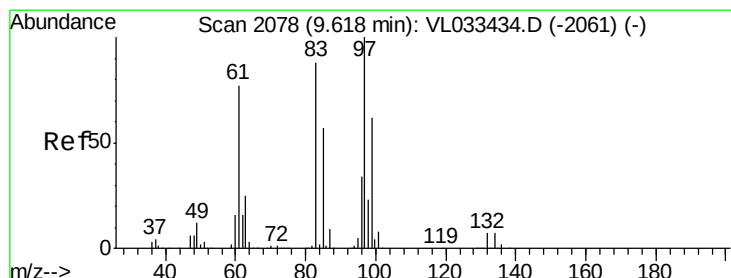
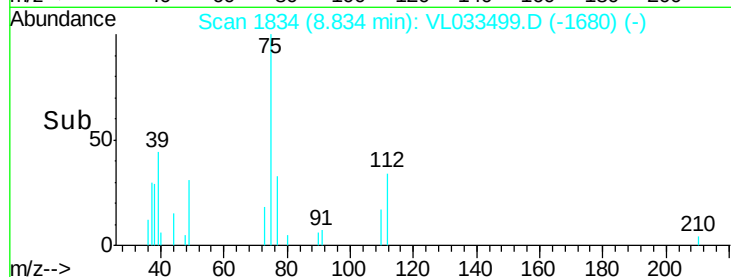
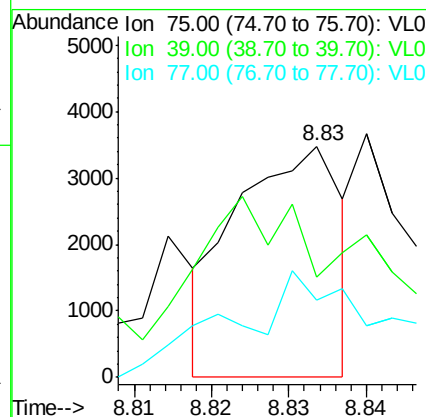
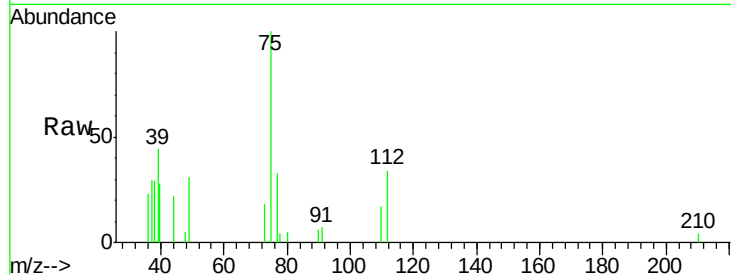




#46
 cis-1,3-Dichloropropene
 Concen: 0.03 ppbv
 RT: 8.83 min Scan# 1834
 Delta R.T. -0.00 min
 Lab File: VL033499.D
 Acq: 29 Mar 2019 12:54

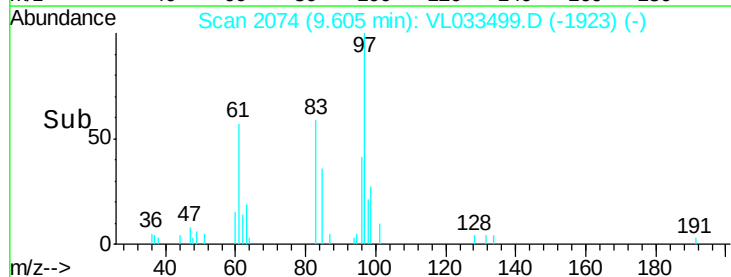
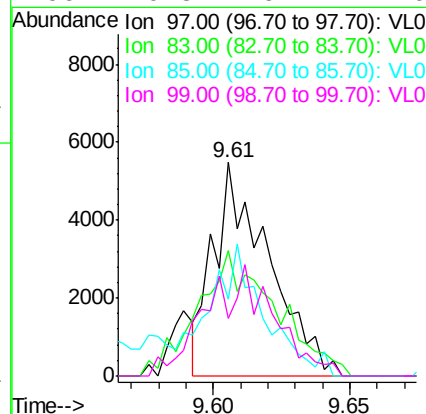
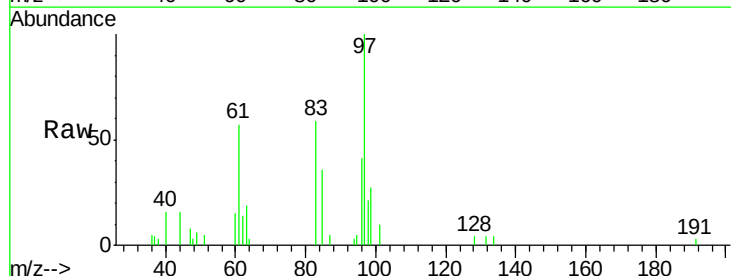
Instrument :
 MSVOA_L
 ClientSampled :

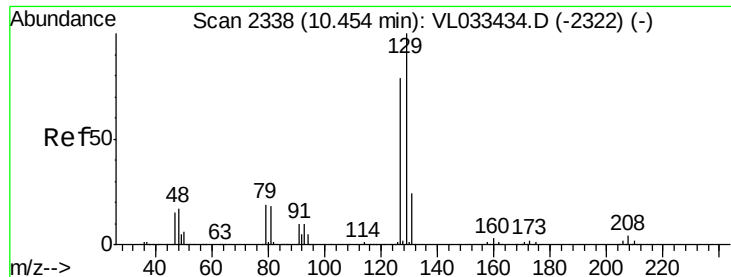
Tot Ion: 75 Resp: 3297
 Ion Ratio Lower Upper
 75 100
 39 0.0 54.1 81.1#
 77 29.6 23.9 35.9



#47
 1,1,2-Trichloroethane
 Concen: 0.09 ppbv
 RT: 9.61 min Scan# 2074
 Delta R.T. -0.01 min
 Lab File: VL033499.D
 Acq: 29 Mar 2019 12:54

Tgt Ion: 97 Resp: 7673
 Ion Ratio Lower Upper
 97 100
 83 53.4 70.5 105.7#
 85 35.9 45.6 68.4#
 99 26.8 49.4 74.0#

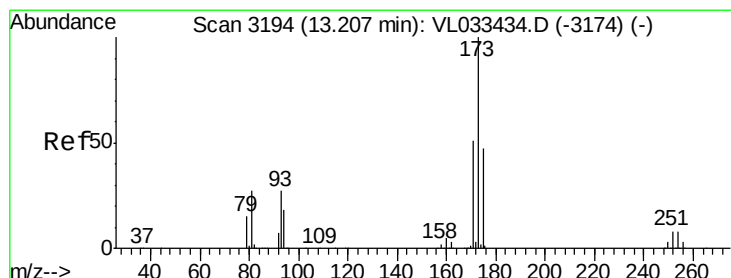
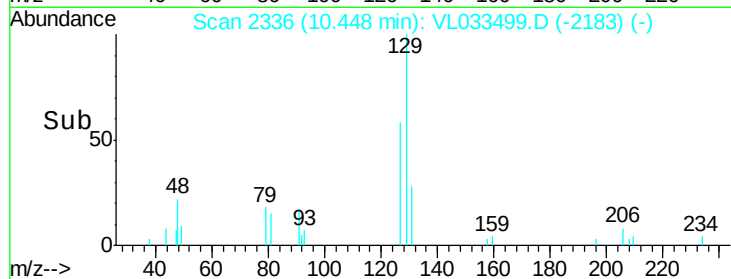
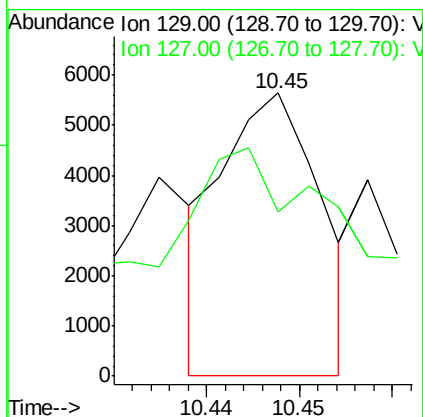
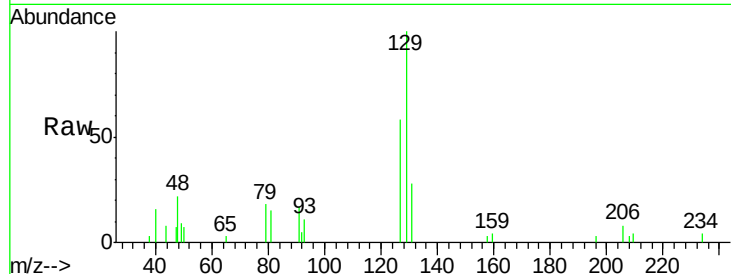




#48
Dibromochloromethane
Concen: 0.03 ppbv
RT: 10.45 min Scan# 2336
Delta R.T. -0.01 min
Lab File: VL033499.D
Acq: 29 Mar 2019 12:54

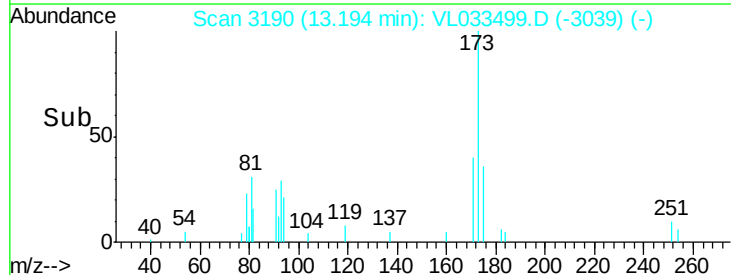
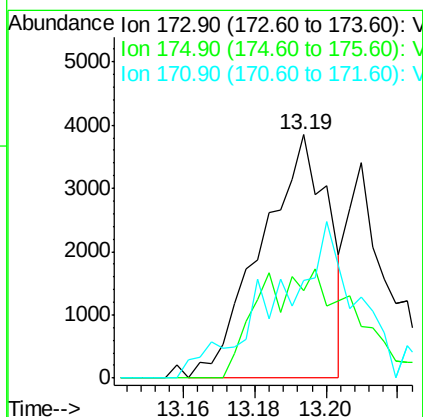
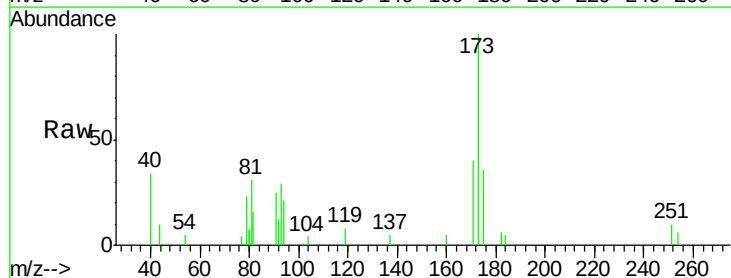
Instrument :
MSVOA_L
ClientSampleId :

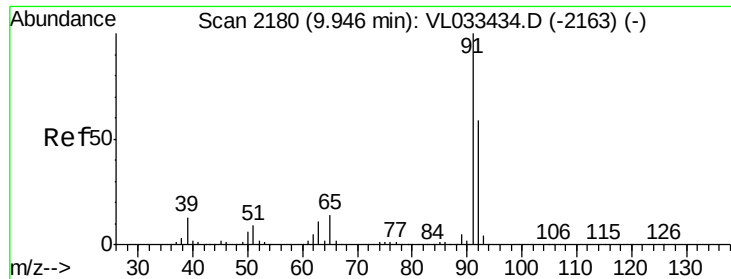
Tot Ion:129 Resp: 4171
Ion Ratio Lower Upper
129 100
127 194.1 39.1 117.2#



#49
Bromoform
Concen: 0.04 ppbv
RT: 13.19 min Scan# 3190
Delta R.T. -0.01 min
Lab File: VL033499.D
Acq: 29 Mar 2019 12:54

Tgt Ion:173 Resp: 5008
Ion Ratio Lower Upper
173 100
175 64.0 39.3 58.9#
171 79.1 41.2 61.8#





#53

Toluene

Concen: 0.04 ppbv

RT: 9.94 min Scan# 2177

Delta R.T. -0.01 min

Lab File: VL033499.D

Acq: 29 Mar 2019 12:54

Instrument :

MSVOA_L

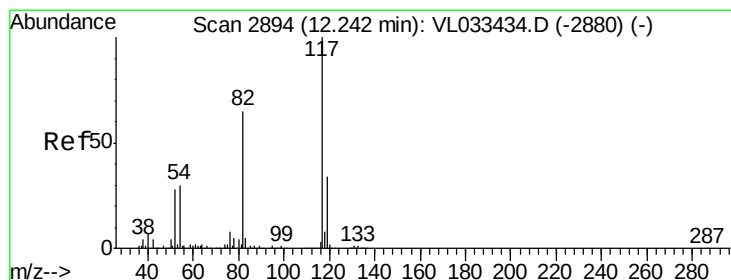
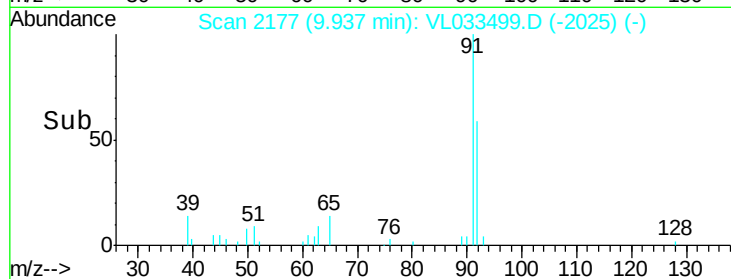
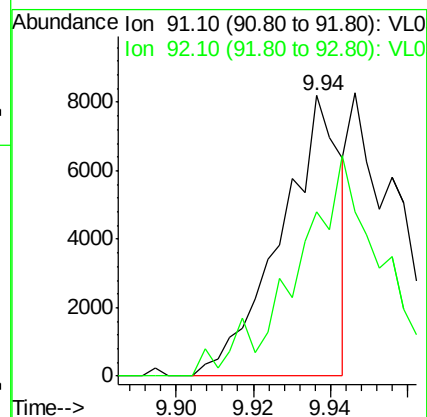
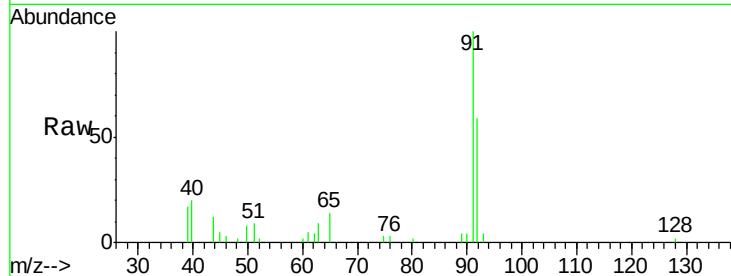
ClientSampleId :

Tot Ion: 91 Resp: 8793

Ion Ratio Lower Upper

91 100

92 0.0 47.4 71.0#



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.24 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL033499.D

Acq: 29 Mar 2019 12:54

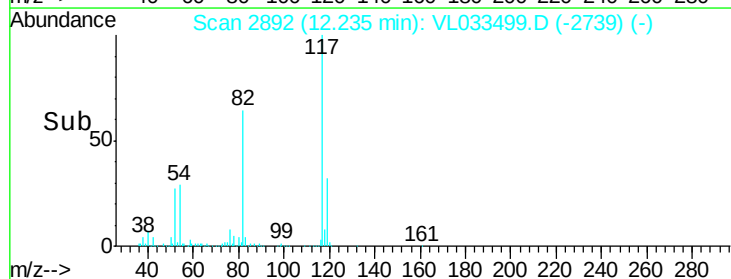
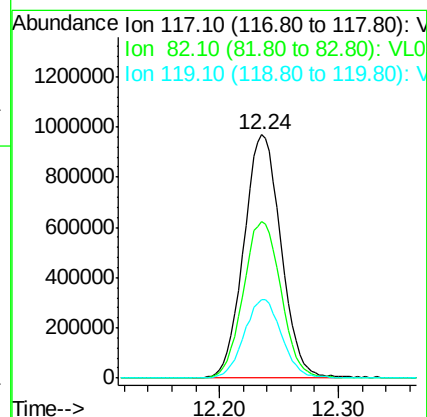
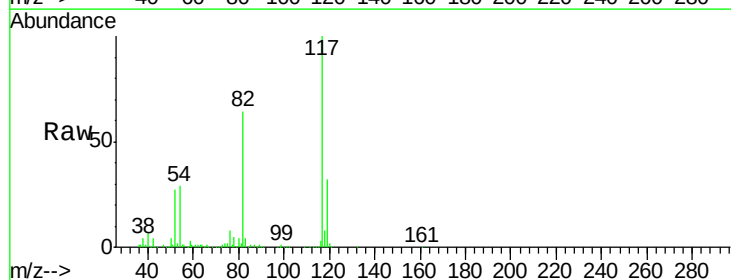
Tgt Ion: 117 Resp: 2099473

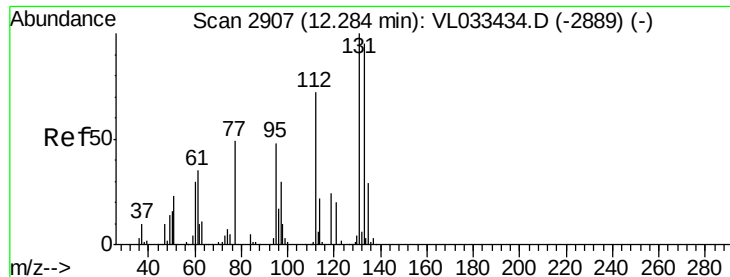
Ion Ratio Lower Upper

117 100

82 65.7 51.5 77.3

119 32.7 25.5 38.3

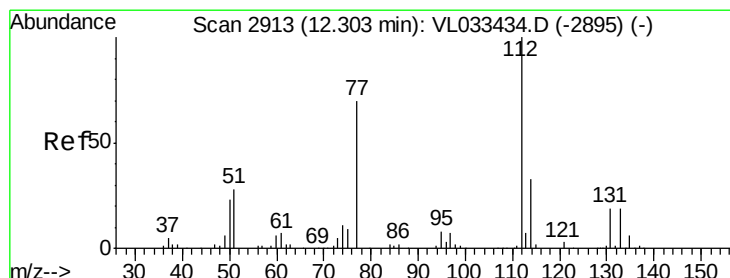
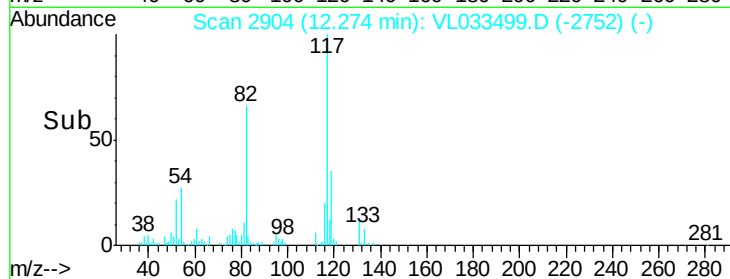
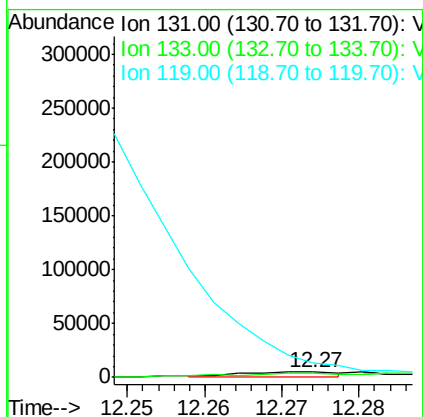
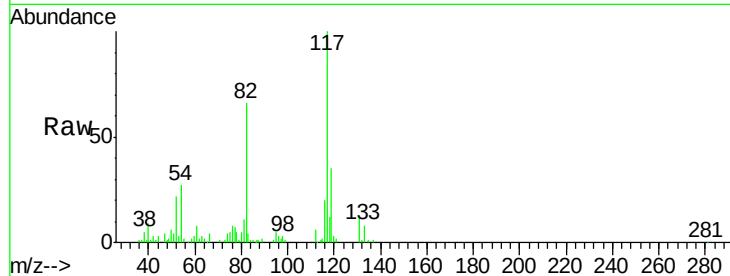




#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.05 ppbv
 RT: 12.27 min Scan# 2904
 Delta R.T. -0.01 min
 Lab File: VL033499.D
 Acq: 29 Mar 2019 12:54

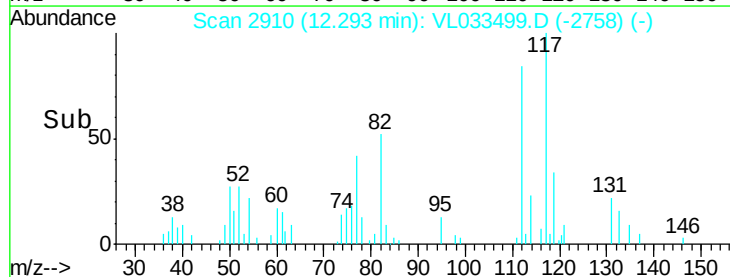
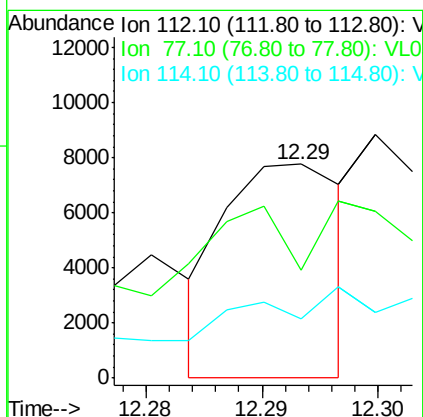
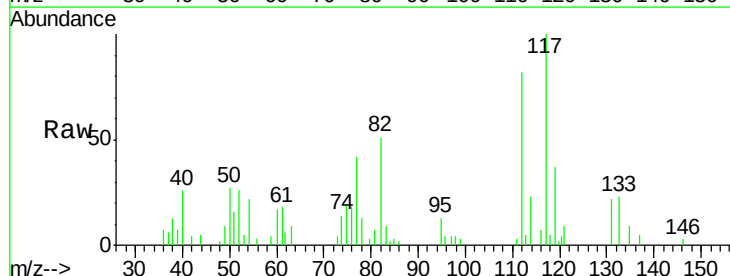
Instrument :
 MSVOA_L
 ClientSampleId :

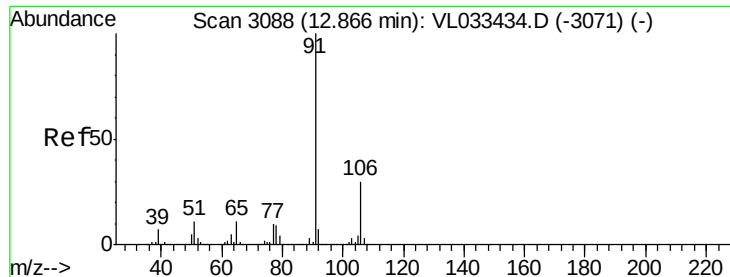
Tot Ion:131 Resp: 4556
 Ion Ratio Lower Upper
 131 100
 133 0.0 76.2 114.4#
 119 0.0 45.0 67.6#



#57
 Chlorobenzene
 Concen: 0.03 ppbv
 RT: 12.29 min Scan# 2910
 Delta R.T. -0.01 min
 Lab File: VL033499.D
 Acq: 29 Mar 2019 12:54

Tgt Ion:112 Resp: 5533
 Ion Ratio Lower Upper
 112 100
 77 0.0 57.3 85.9#
 114 13.9 29.8 36.4#





#58

Ethyl Benzene

Concen: 0.04 ppbv

RT: 12.86 min Scan# 3087

Delta R.T. -0.00 min

Lab File: VL033499.D

Acq: 29 Mar 2019 12:54

Instrument :

MSVOA_L

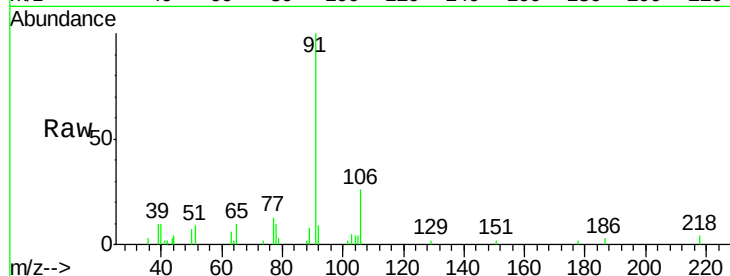
ClientSampleId :

Tot Ion: 91 Resp: 11635

Ion Ratio Lower Upper

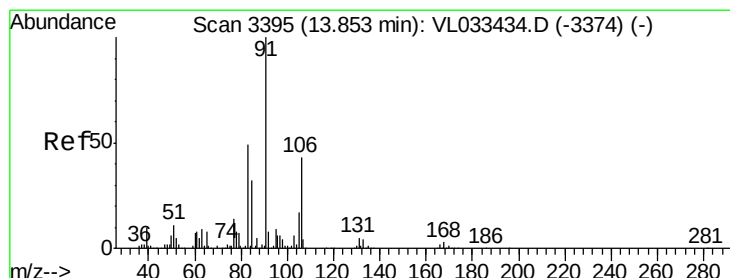
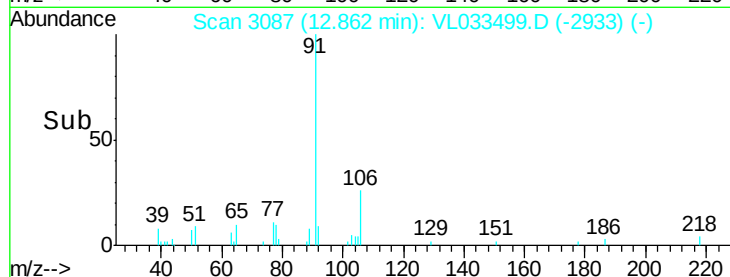
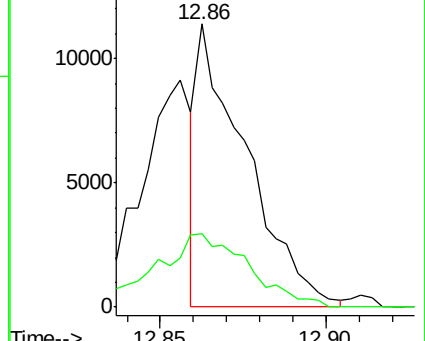
91 100

106 26.6 23.8 35.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 0.04 ppbv

RT: 13.84 min Scan# 3392

Delta R.T. -0.01 min

Lab File: VL033499.D

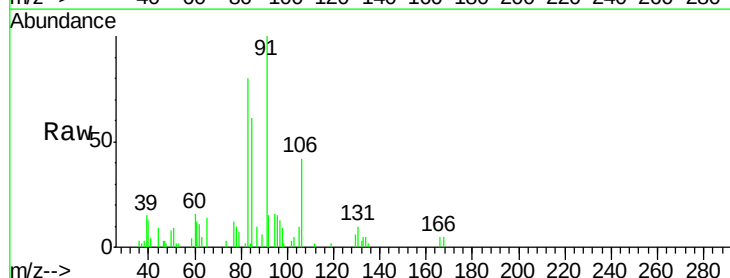
Acq: 29 Mar 2019 12:54

Tgt Ion: 91 Resp: 9054

Ion Ratio Lower Upper

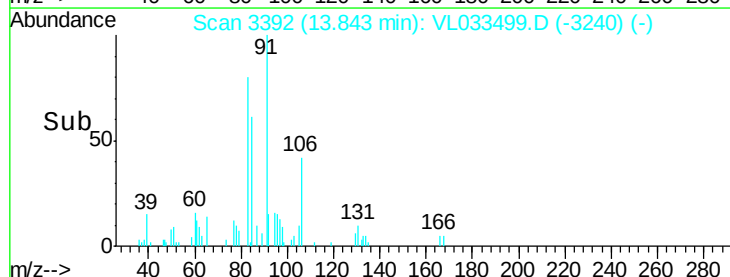
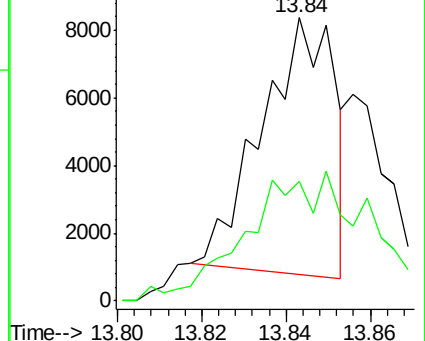
91 100

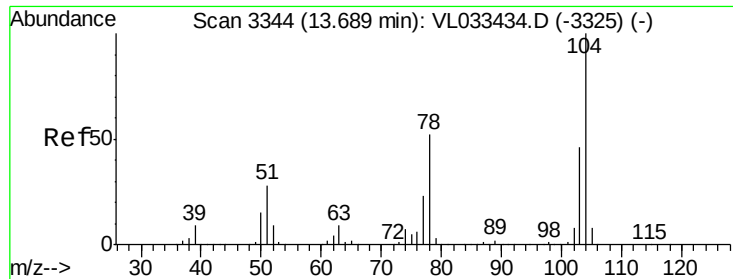
106 0.0 21.4 64.3#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

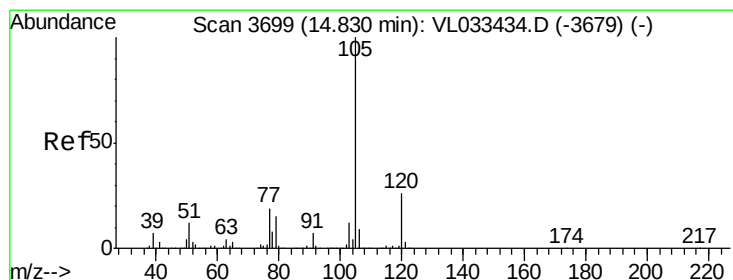
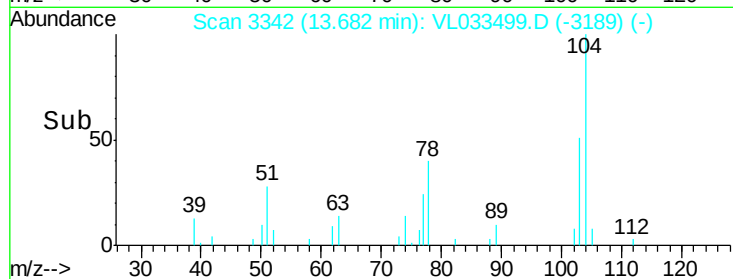
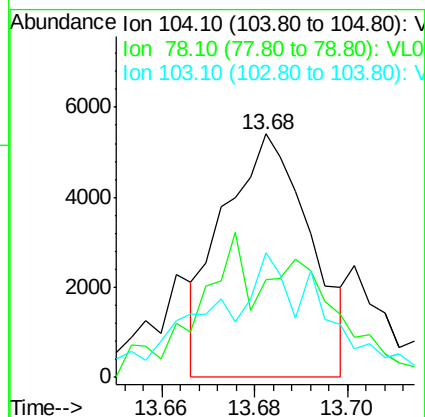
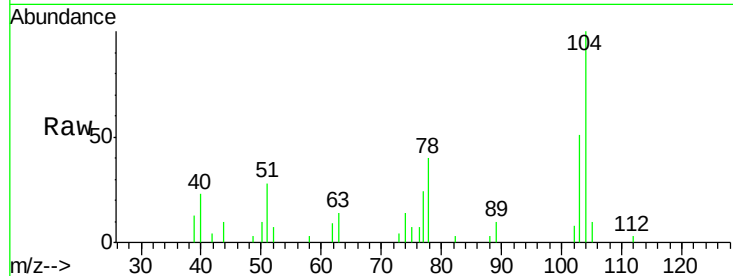




#61
Stvrene
Concen: 0.04 ppbv
RT: 13.68 min Scan# 3342
Delta R.T. -0.01 min
Lab File: VL033499.D
Acq: 29 Mar 2019 12:54

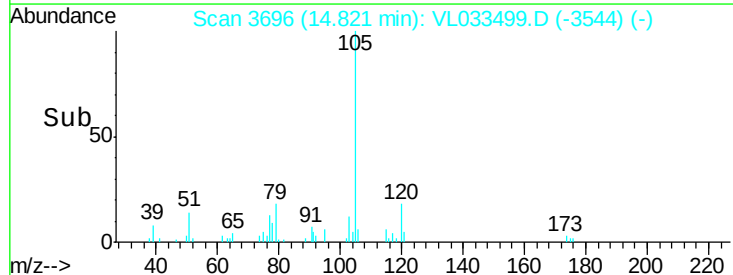
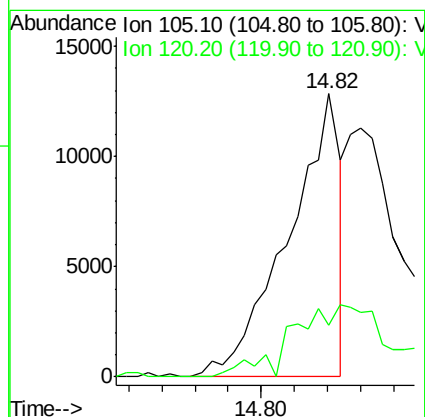
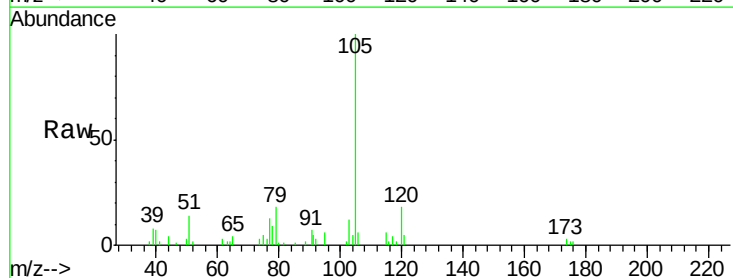
Instrument :
MSVOA_L
ClientSampled :

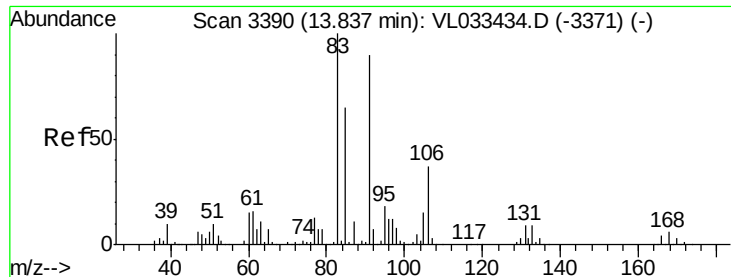
Tot Ion:104 Resp: 7041
Ion Ratio Lower Upper
104 100
78 80.0 43.2 64.8#
103 69.4 37.8 56.8#



#62
Isopropylbenzene
Concen: 0.04 ppbv
RT: 14.82 min Scan# 3696
Delta R.T. -0.01 min
Lab File: VL033499.D
Acq: 29 Mar 2019 12:54

Tgt Ion:105 Resp: 13990
Ion Ratio Lower Upper
105 100
120 48.5 20.2 30.2#

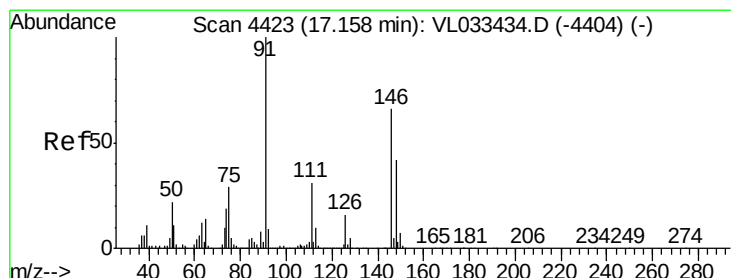
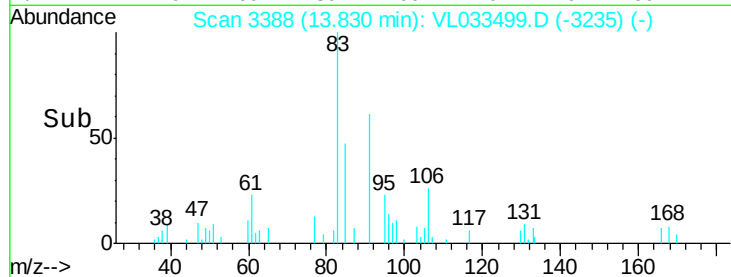
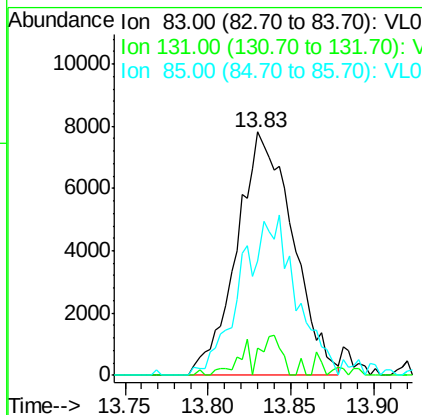
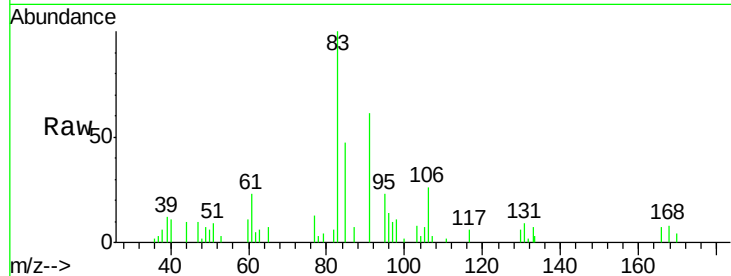




#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.10 ppbv
 RT: 13.83 min Scan# 3388
 Delta R.T. -0.01 min
 Lab File: VL033499.D
 Acq: 29 Mar 2019 12:54

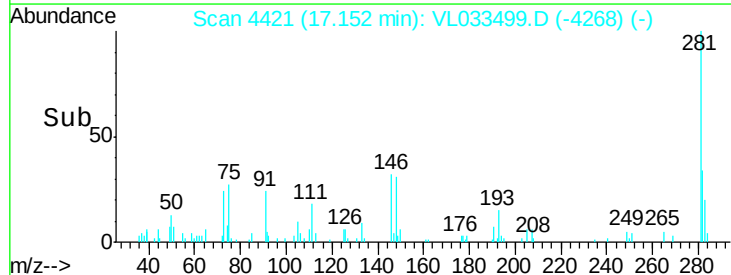
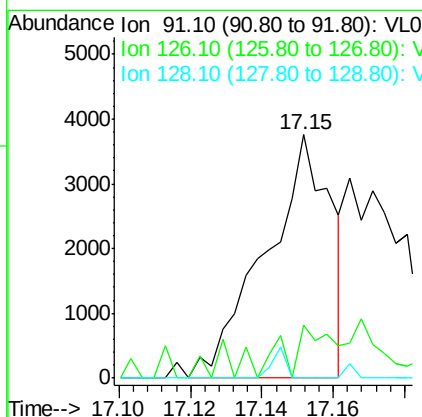
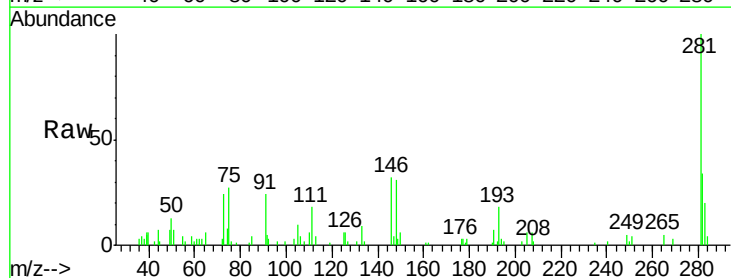
Instrument :
 MSVOA_L
 ClientSampleId :

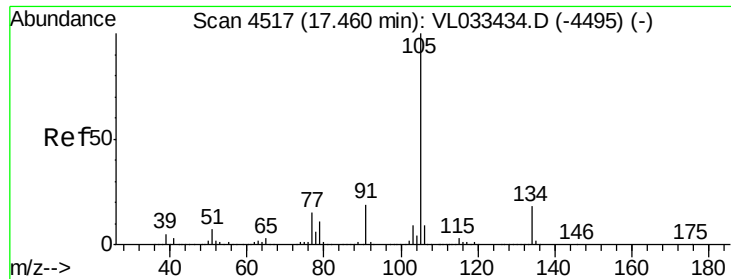
Tot Ion: 83 Resp: 18403
 Ion Ratio Lower Upper
 83 100
 131 9.8 4.7 14.0
 85 65.6 32.7 98.1



#66
 Benzyl Chloride
 Concen: 0.03 ppbv
 RT: 17.15 min Scan# 4421
 Delta R.T. -0.01 min
 Lab File: VL033499.D
 Acq: 29 Mar 2019 12:54

Tgt Ion: 91 Resp: 4757
 Ion Ratio Lower Upper
 91 100
 126 7.0 13.0 19.6#
 128 2.6 4.2 6.2#





#67

sec-Butylbenzene

Concen: 0.05 ppbv

RT: 17.46 min Scan# 4517

Delta R.T. -0.00 min

Lab File: VL033499.D

Acq: 29 Mar 2019 12:54

Instrument :

MSVOA_L

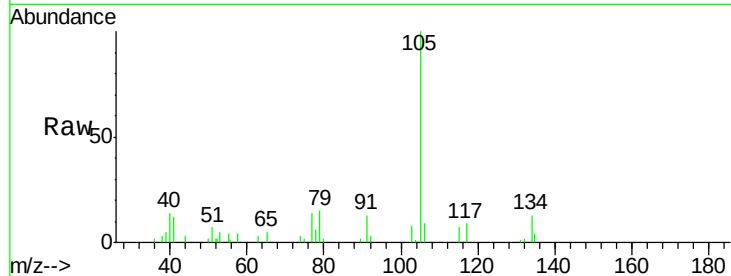
ClientSampled :

Tot Ion: 105 Resp: 19614

Ion Ratio Lower Upper

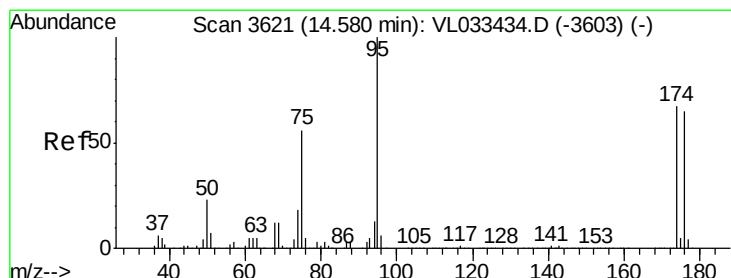
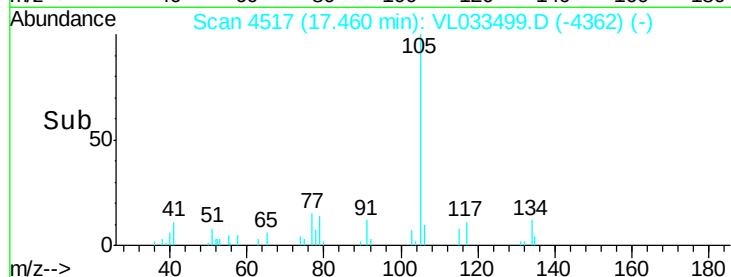
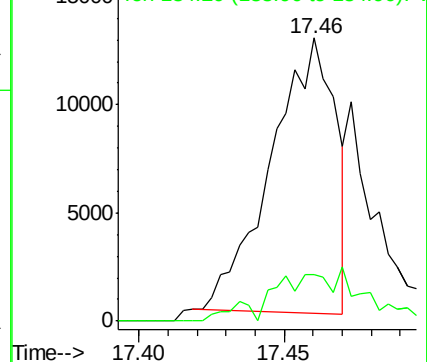
105 100

134 0.0 14.6 21.8#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.78 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. -0.00 min

Lab File: VL033499.D

Acq: 29 Mar 2019 12:54

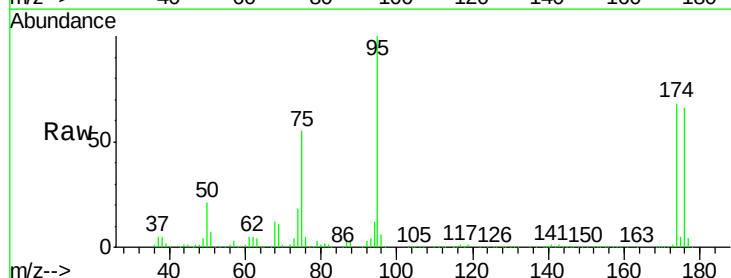
Tgt Ion: 95 Resp: 1610242

Ion Ratio Lower Upper

95 100

174 67.9 52.9 79.3

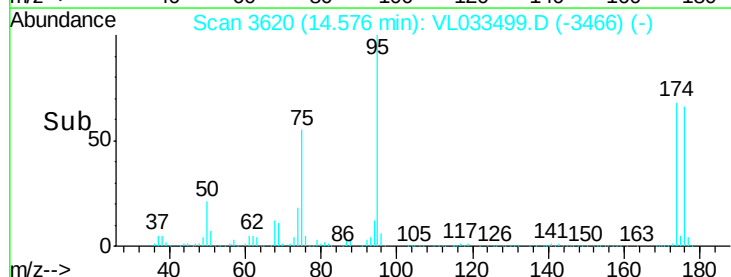
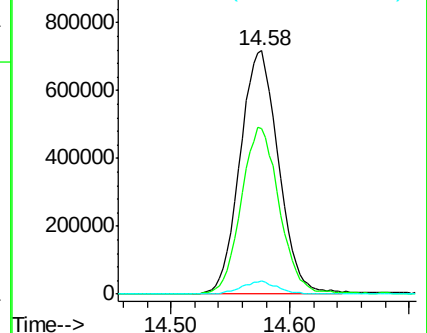
175 5.0 3.8 5.6

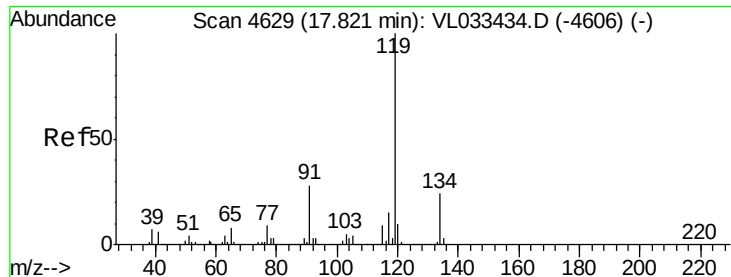


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

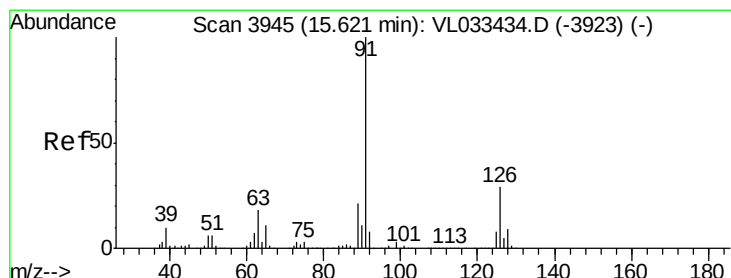
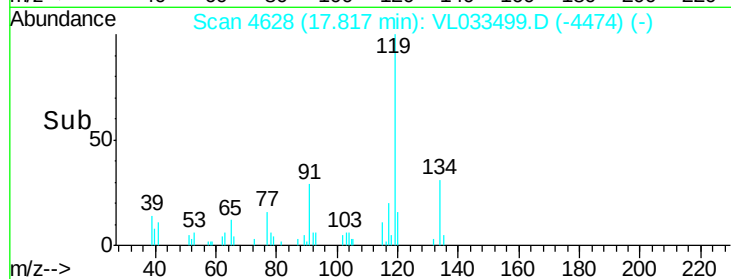
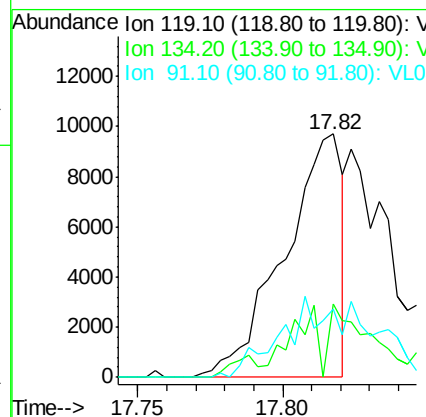
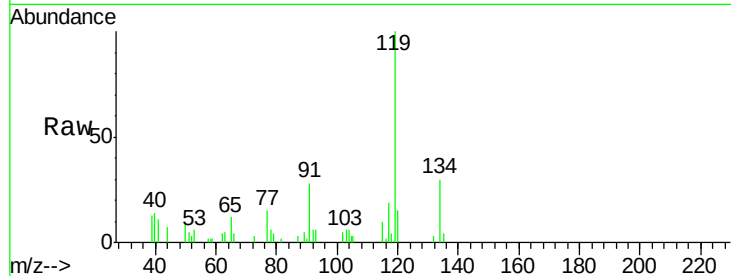




#69
p-Isopropyltoluene
Concen: 0.04 ppbv
RT: 17.82 min Scan# 4628
Delta R.T. -0.00 min
Lab File: VL033499.D
Acq: 29 Mar 2019 12:54

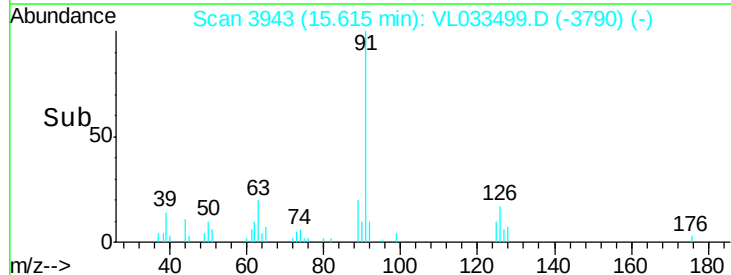
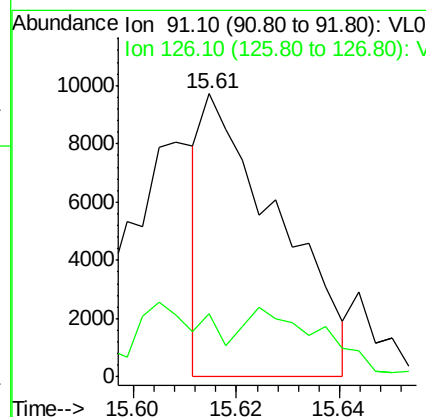
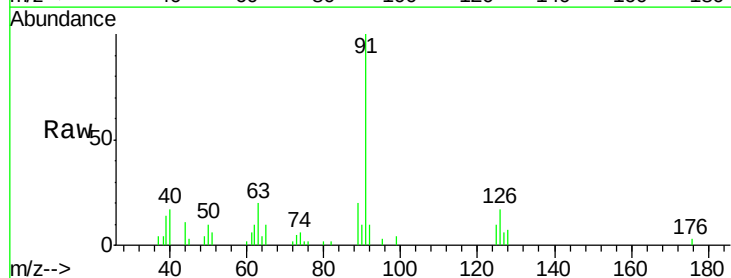
Instrument :
MSVOA_L
ClientSampleId :

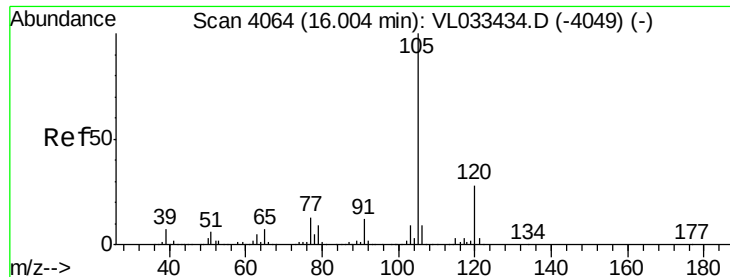
Tot Ion:119 Resp: 13463
Ion Ratio Lower Upper
119 100
134 17.9 19.9 29.9#
91 52.6 23.4 35.0#



#71
2-Chlorotoluene
Concen: 0.04 ppbv
RT: 15.61 min Scan# 3943
Delta R.T. -0.01 min
Lab File: VL033499.D
Acq: 29 Mar 2019 12:54

Tgt Ion: 91 Resp: 9907
Ion Ratio Lower Upper
91 100
126 0.0 11.7 46.9#





#72

4-Ethyltoluene

Concen: 0.07 ppbv

RT: 16.00 min Scan# 4064

Delta R.T. -0.00 min

Lab File: VL033499.D

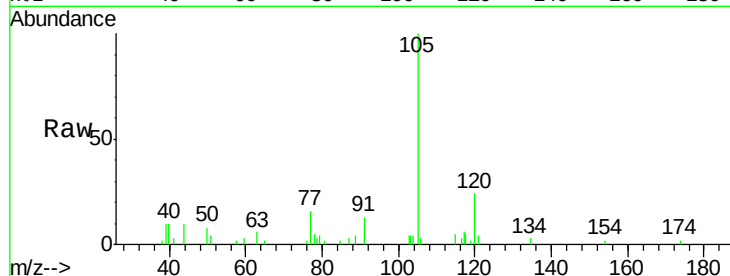
Acq: 29 Mar 2019 12:54

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:105	Resp:	19131
Ion Ratio	Lower	Upper
105	100	
120	30.8	23.2 34.8
91	15.7	10.4 15.6#
77	16.0	11.3 16.9

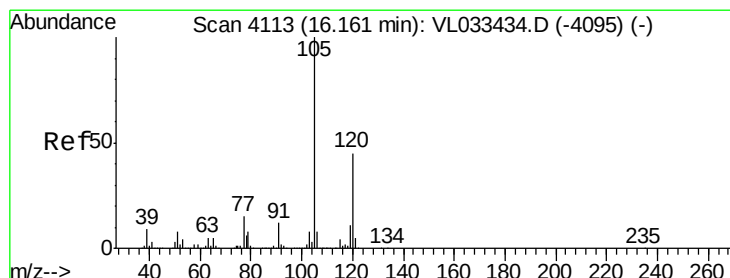
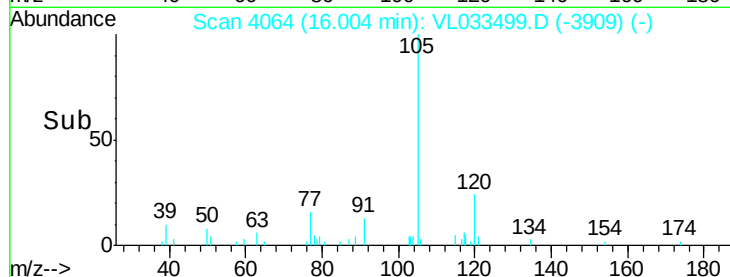
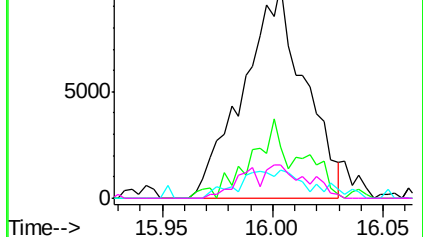


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#73

1,3,5-Trimethylbenzene

Concen: 0.03 ppbv

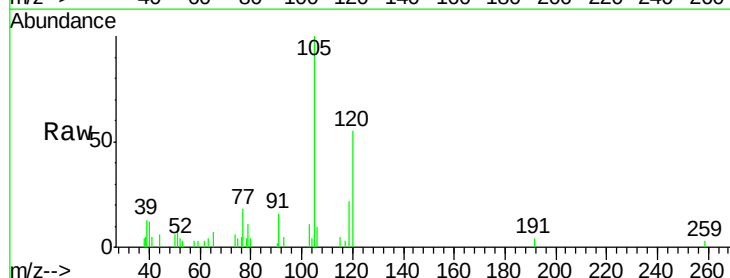
RT: 16.15 min Scan# 4111

Delta R.T. -0.01 min

Lab File: VL033499.D

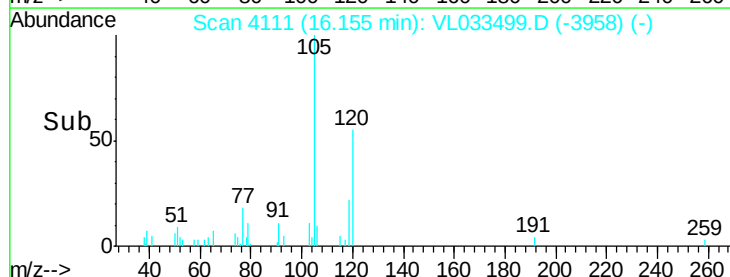
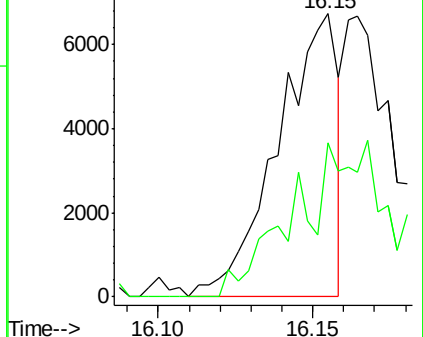
Acq: 29 Mar 2019 12:54

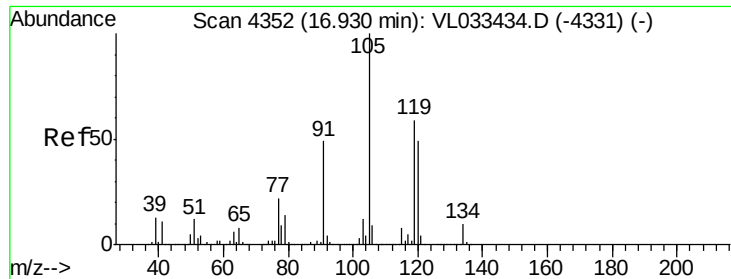
Tgt Ion:105	Resp:	9068
Ion Ratio	Lower	Upper
105	100	
120	54.5	35.7 53.5#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

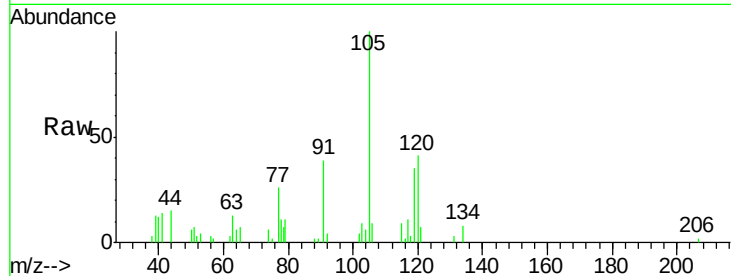




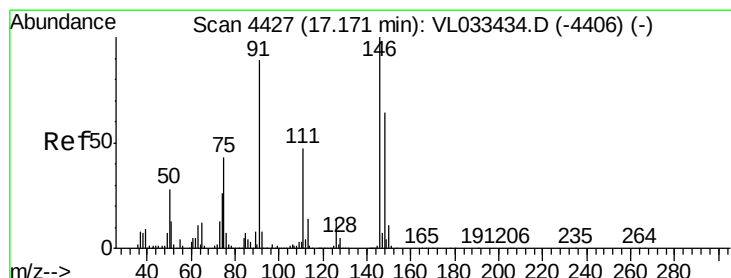
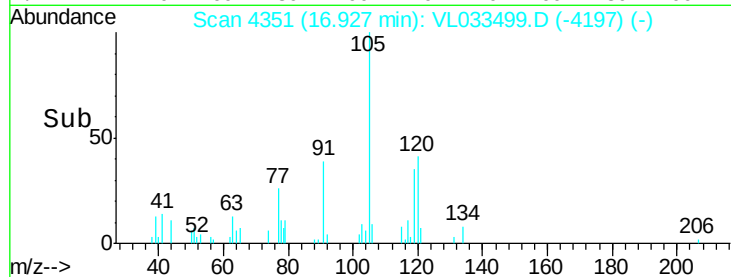
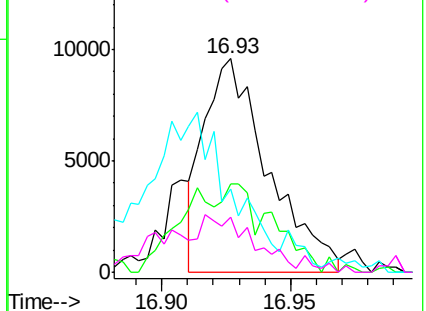
#74
 1,2,4-Trimethylbenzene
 Concen: 0.06 ppbv
 RT: 16.93 min Scan# 4351
 Delta R.T. -0.00 min
 Lab File: VL033499.D
 Acq: 29 Mar 2019 12:54

Instrument :
 MSVOA_L
 ClientSampled :

Tot Ion:	105	Resp:	16578
Ion	Ratio	Lower	Upper
105	100		
120	44.0	39.0	58.6
91	34.5	40.0	60.0#
77	39.2	17.5	26.3#

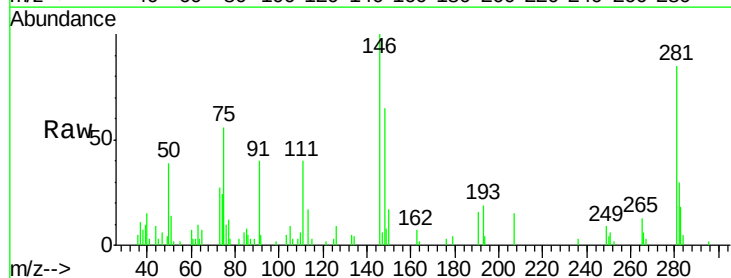


Abundance Ion 105.10 (104.80 to 105.80): V
 Ion 120.20 (119.90 to 120.90): V
 Ion 91.10 (90.80 to 91.80): VL0
 Ion 77.10 (76.80 to 77.80): VL0

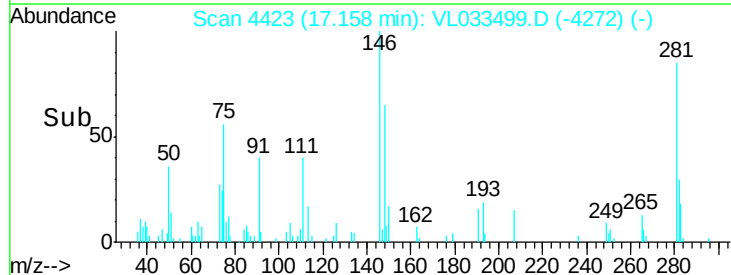
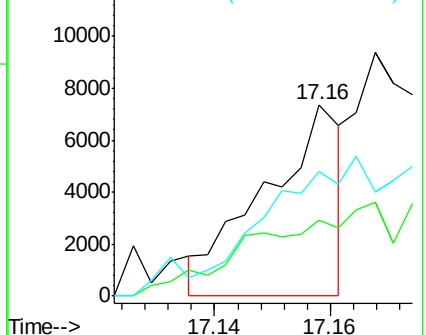


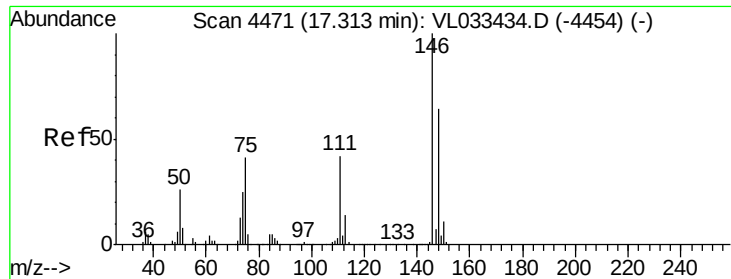
#75
 1,3-Dichlorobenzene
 Concen: 0.04 ppbv
 RT: 17.16 min Scan# 4423
 Delta R.T. -0.01 min
 Lab File: VL033499.D
 Acq: 29 Mar 2019 12:54

Tgt Ion:	146	Resp:	6769
Ion	Ratio	Lower	Upper
146	100		
111	0.0	22.9	68.8#
148	0.0	32.0	96.2#



Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.10 (110.80 to 111.80): V
 Ion 148.00 (147.70 to 148.70): V





#76

1,4-Dichlorobenzene

Concen: 0.06 ppbv

RT: 17.31 min Scan# 4469

Delta R.T. -0.01 min

Lab File: VL033499.D

Acq: 29 Mar 2019 12:54

Instrument :

MSVOA_L

ClientSampleId :

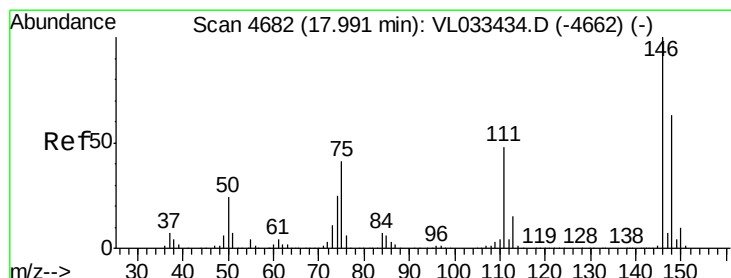
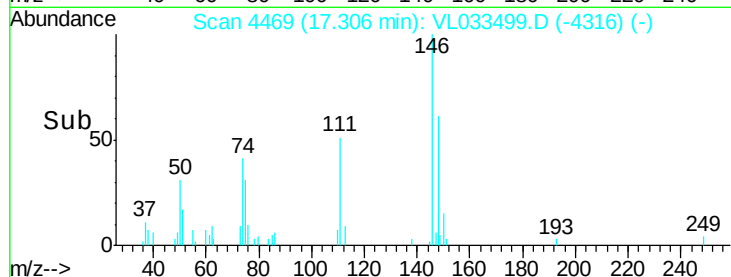
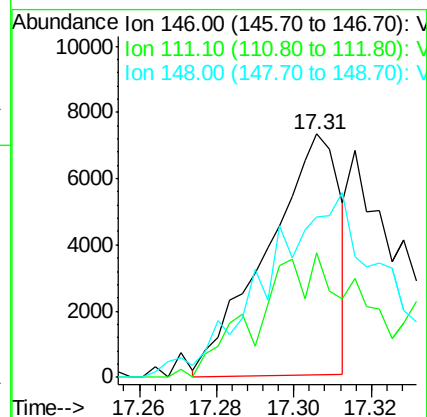
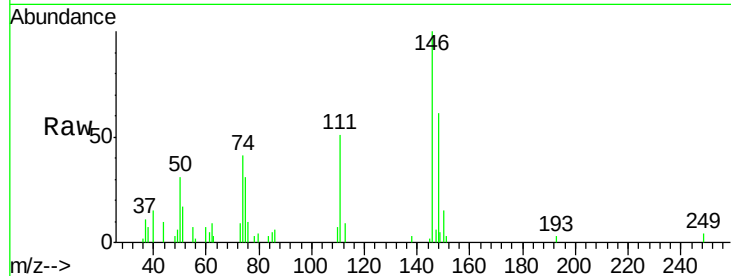
Tot Ion:146 Resp: 9535

Ion Ratio Lower Upper

146 100

111 84.4 21.7 65.1#

148 0.0 32.0 96.2#



#77

1,2-Dichlorobenzene

Concen: 0.04 ppbv

RT: 17.99 min Scan# 4681

Delta R.T. -0.00 min

Lab File: VL033499.D

Acq: 29 Mar 2019 12:54

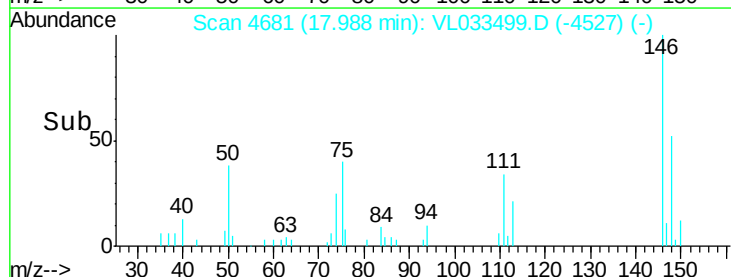
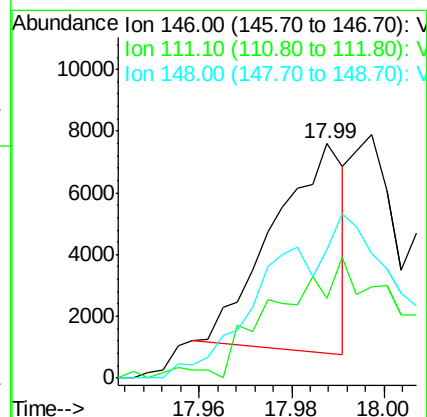
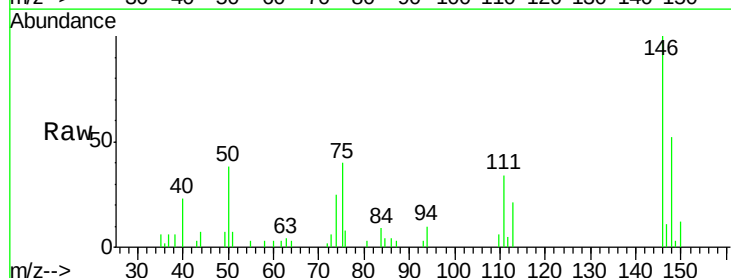
Tgt Ion:146 Resp: 7071

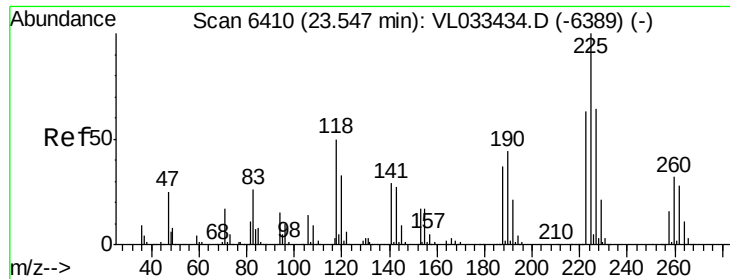
Ion Ratio Lower Upper

146 100

111 98.5 23.5 70.5#

148 156.2 32.0 96.0#





#78

Hexachloro-1,3-Butadiene

Concen: 0.09 ppbv

RT: 23.54 min Scan# 6409

Delta R.T. -0.00 min

Lab File: VL033499.D

Acq: 29 Mar 2019 12:54

Instrument :

MSVOA_L

ClientSampled :

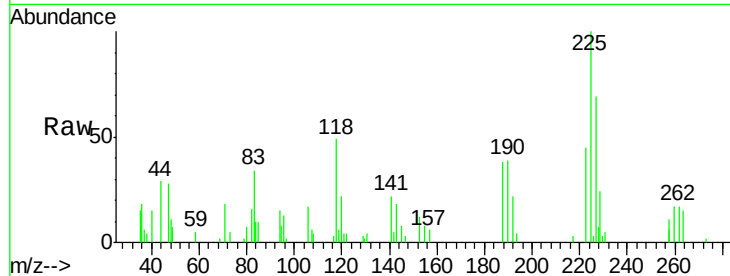
Tot Ion:225 Resp: 9850

Ion Ratio Lower Upper

225 100

223 0.0 50.0 75.0#

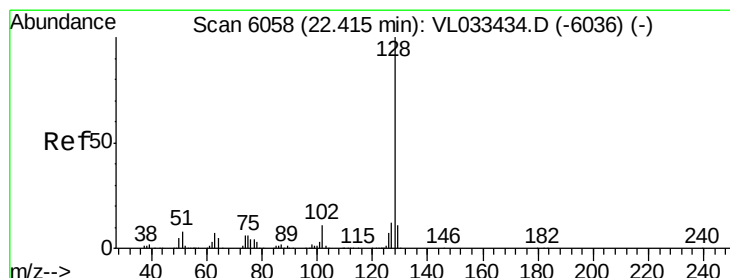
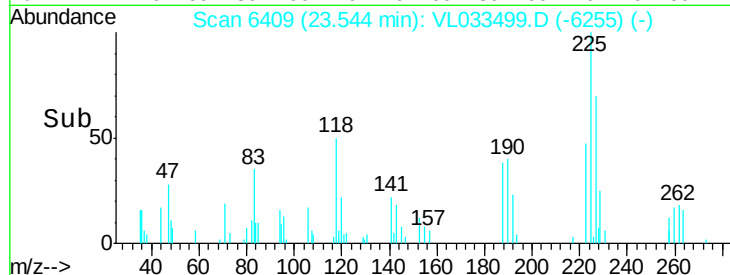
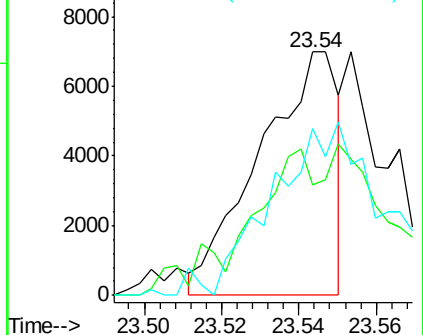
227 0.0 51.1 76.7#



Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V



#79

Naphthalene

Concen: 0.03 ppbv

RT: 22.41 min Scan# 6055

Delta R.T. -0.01 min

Lab File: VL033499.D

Acq: 29 Mar 2019 12:54

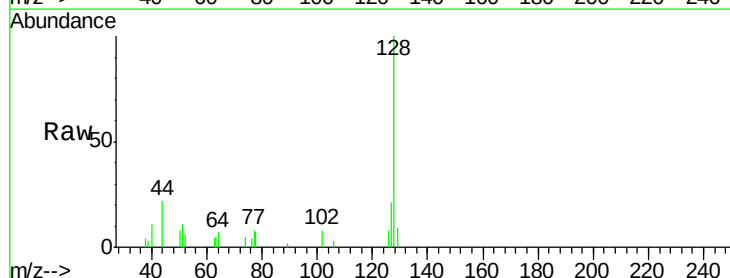
Tgt Ion:128 Resp: 7930

Ion Ratio Lower Upper

128 100

127 7.4 9.8 14.8#

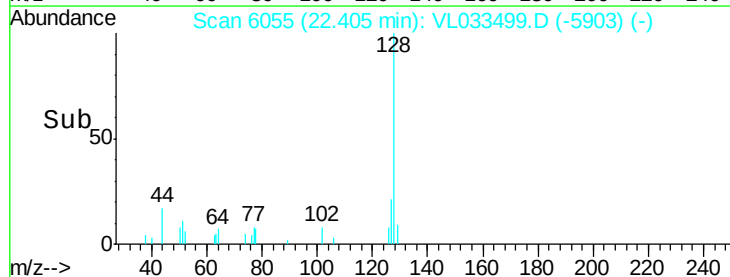
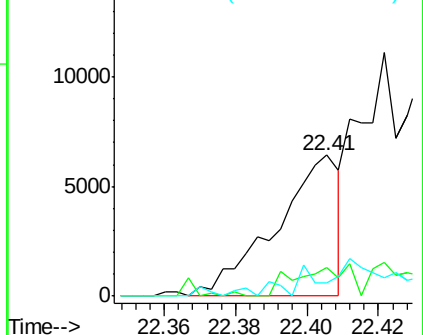
129 9.3 8.6 12.8

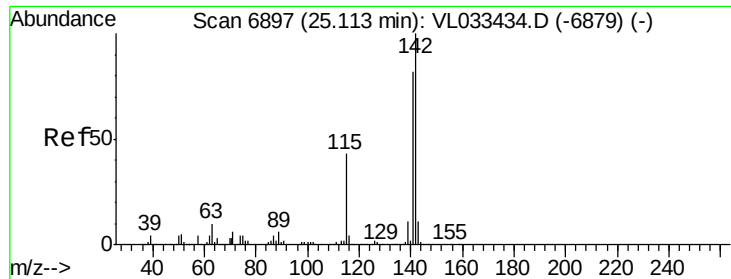


Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V

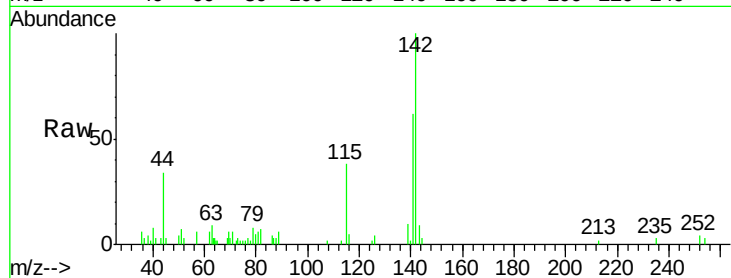




#80
 Naphthalene,2-methyl-
 Concen: 0.26 ppbv
 RT: 25.12 min Scan# 6900
 Delta R.T. 0.01 min
 Lab File: VL033499.D
 Acq: 29 Mar 2019 12:54

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
142	100		
141	87.6	66.6	99.8
115	37.2	34.4	51.6



Abundance Ion 142.00 (141.70 to 142.70): V
 Ion 141.00 (140.70 to 141.70): V
 Ion 115.00 (114.70 to 115.70): V

