

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070219\
 Data File : VL034004.D
 Acq On : 3 Jul 2019 3:47
 Operator : SY/AP
 Sample : K3591-13 LOD 0.1
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 03 04:35:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 02 19:31:31 2019
 QLast Update : Tue Jul 02 19:31:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.73	49	890153	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.26	114	2425554	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.20	117	2411742	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.54	95	1962012	9.54	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.06	85	31360	0.171 ppbv	99
3) Chlorodifluoromethane	3.00	51	15776	0.144 ppbv #	87
4) Chloromethane	3.15	50	3227	0.051 ppbv #	79
5) Vinyl Chloride	3.28	62	7821	0.110 ppbv #	87
6) Bromomethane	3.49	94	1906	0.045 ppbv #	79
7) Chloroethane	3.59	64	3635	0.143 ppbv #	78
8) Dichlorotetrafluoroethane	3.21	85	26436	0.148 ppbv	92
9) Propene	3.01	41	2440	0.060 ppbv #	3
10) Heptane	8.21	43	3669	0.036 ppbv #	1
11) Trichlorofluoromethane	3.98	101	11429	0.055 ppbv	92
12) 1,1,2-Trichlorotrifluoroet	4.53	101	18988	0.130 ppbv	97
13) Ethanol	3.65	45	950	0.076 ppbv #	51
14) Bromoethene	3.77	108	7905	0.145 ppbv #	85
15) Acetone	3.91	43	22531	0.151 ppbv #	86
16) 1,3-Butadiene	3.34	39	1830	0.035 ppbv #	5
18) 1,1-Dichloroethene	4.33	96	6998	0.107 ppbv #	72
21) Allyl Chloride	4.45	41	5099	0.055 ppbv #	12
22) trans-1,2-Dichloroethene	4.95	96	8497	0.137 ppbv #	57
24) 1,1-Dichloroethane	5.07	63	9572	0.072 ppbv #	92
26) Hexane	5.74	57	3037	0.032 ppbv #	1
27) Carbon Disulfide	4.60	76	6689	0.042 ppbv #	60
28) Methyl tert-Butyl Ether	5.11	73	7164	0.045 ppbv #	60
29) Chloroform	5.81	83	22133	0.126 ppbv	93
30) Cyclohexane	7.21	84	2208	0.031 ppbv #	1
31) cis-1,2-Dichloroethene	5.61	61	4171	0.046 ppbv #	93
32) 1,1,1-Trichloroethane	6.59	97	19041	0.107 ppbv #	87
35) Carbon Tetrachloride	7.10	117	16778	0.087 ppbv #	63
36) Benzene	6.98	78	16568	0.087 ppbv #	86
37) 1,2-Dichloroethane	6.38	62	6474	0.046 ppbv #	67
39) 1,2-Dichloropropane	7.26	63	602312	8.534 ppbv	24
42) Bromodichloromethane	7.88	83	5886	0.031 ppbv #	25
47) 1,1,2-Trichloroethane	9.57	97	2733	0.031 ppbv #	48
49) Bromoform	13.17	173	11587	0.080 ppbv #	80
56) 1,1,1,2-Tetrachloroethane	12.25	131	8131	0.075 ppbv #	21
57) Chlorobenzene	12.27	112	6786	0.035 ppbv #	82
60) o-Xylene	13.82	91	8013	0.031 ppbv #	32
62) Isopropylbenzene	14.79	105	12789	0.032 ppbv #	49
63) 1,1,2,2-Tetrachloroethane	13.80	83	8326	0.041 ppbv #	24
73) 1,3,5-Trimethylbenzene	16.12	105	9499	0.030 ppbv #	62
75) 1,3-Dichlorobenzene	17.13	146	14195	0.064 ppbv #	2
76) 1,4-Dichlorobenzene	17.27	146	11509	0.055 ppbv #	52

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 02 19:31:31 2019
QLast Update : Tue Jul 02 19:31:31 2019
Response via : Initial Calibration

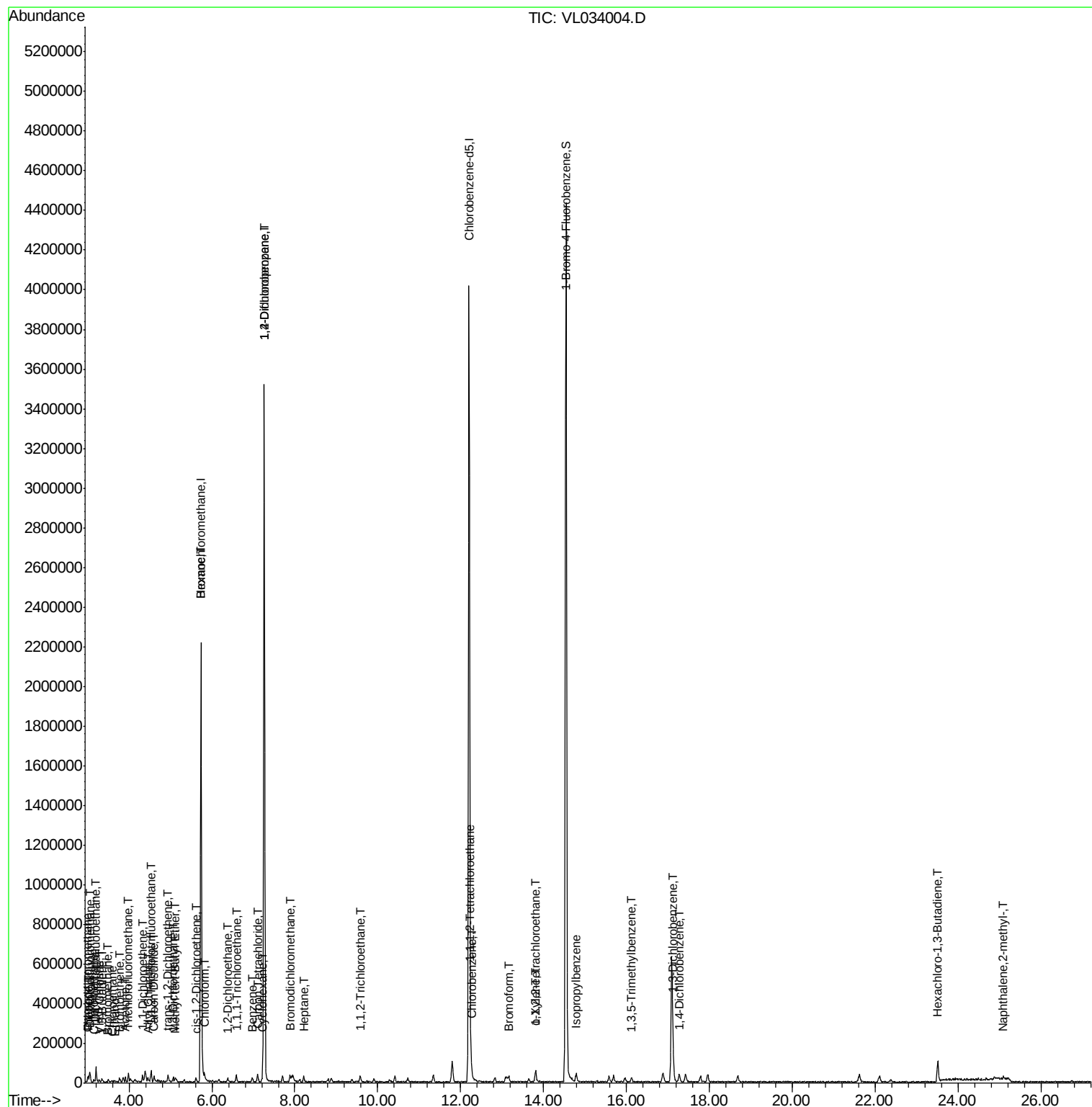
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Hexachloro-1,3-Butadiene	23.51	225	14705	0.085	ppbv #	31
80) Naphthalene,2-methyl-	25.09	142	6607	0.062	ppbv	86

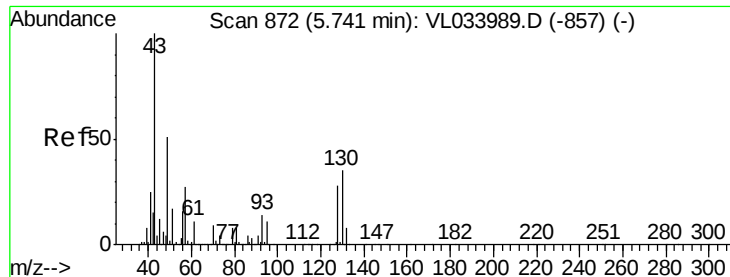
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.73 min Scan# 870

Delta R.T. -0.01 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

Instrument :
MSVOA_L
ClientSampleId :

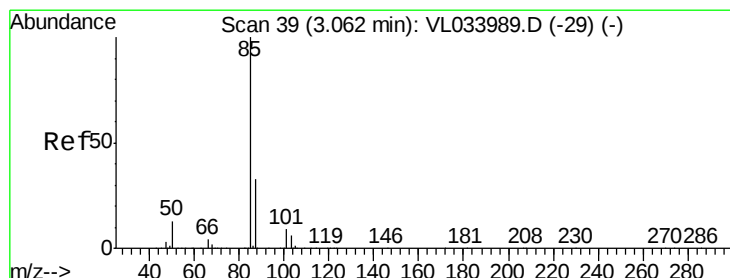
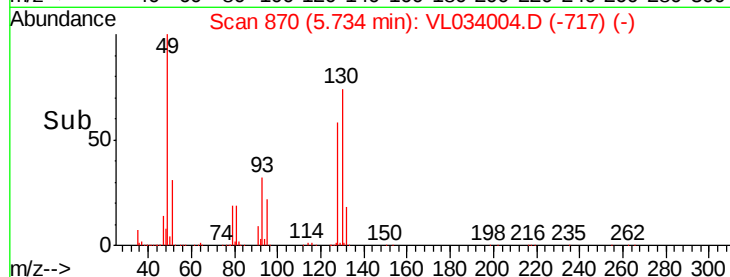
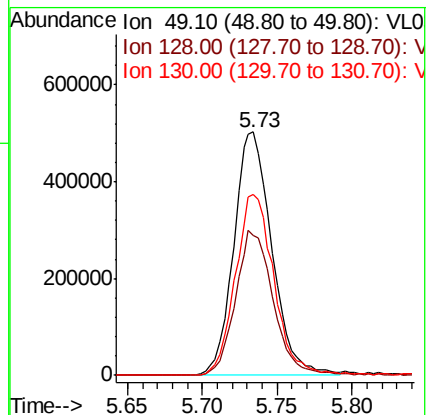
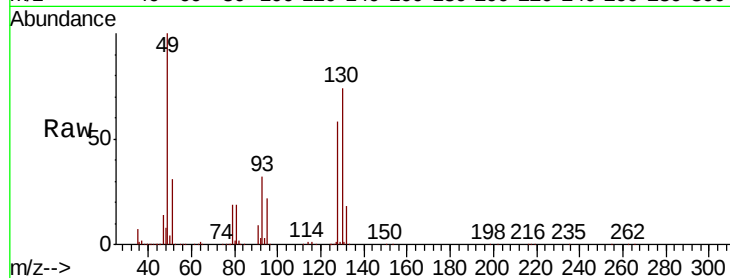
Tot Ion: 49 Resp: 890153

Ion Ratio Lower Upper

49 100

128 58.8 27.9 83.6

130 76.1 35.8 107.4



#2

Dichlorodifluoromethane

Concen: 0.171 ppbv

RT: 3.06 min Scan# 38

Delta R.T. -0.00 min

Lab File: VL034004.D

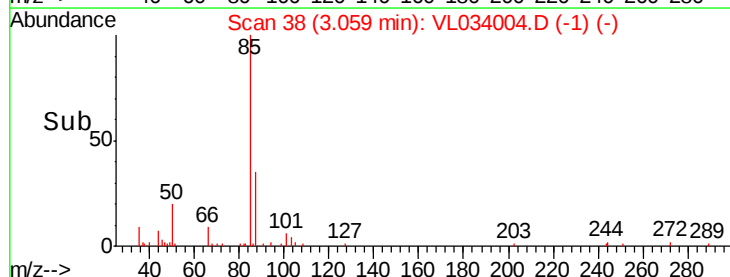
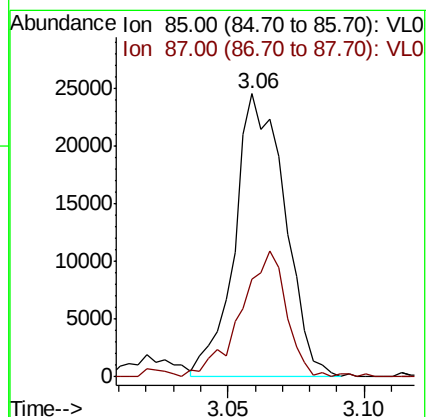
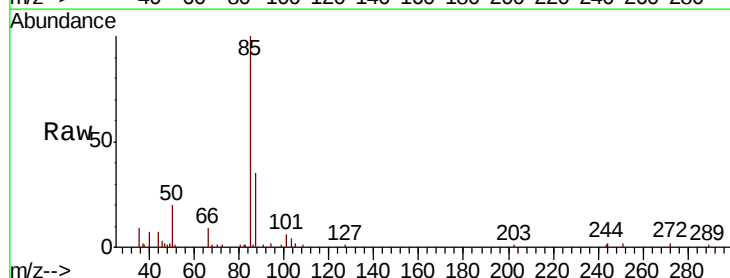
Acq: 3 Jul 2019 3:47

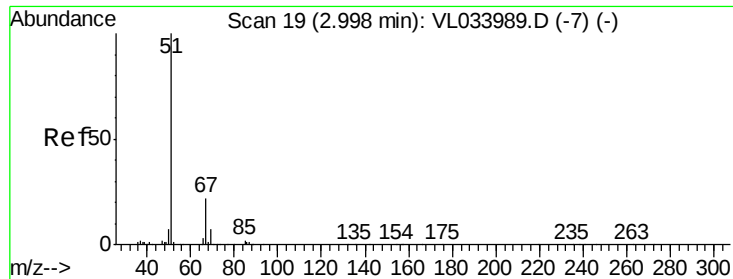
Tgt Ion: 85 Resp: 31360

Ion Ratio Lower Upper

85 100

87 33.3 26.0 39.0

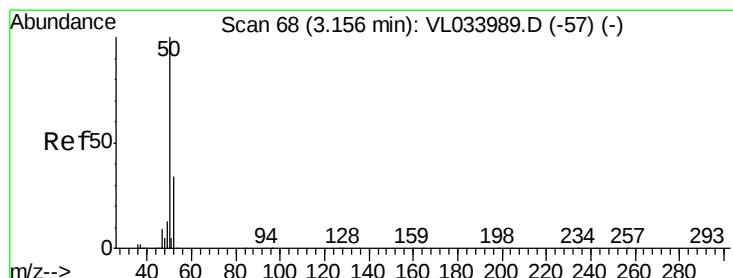
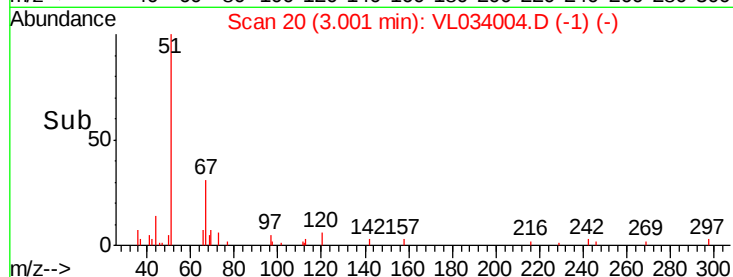
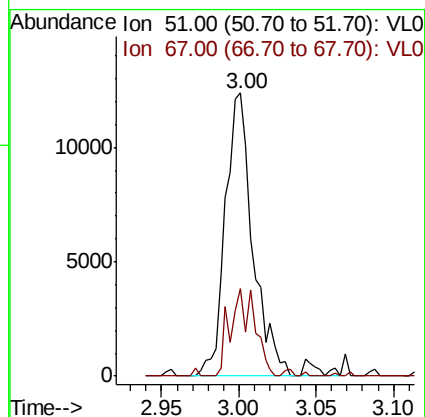
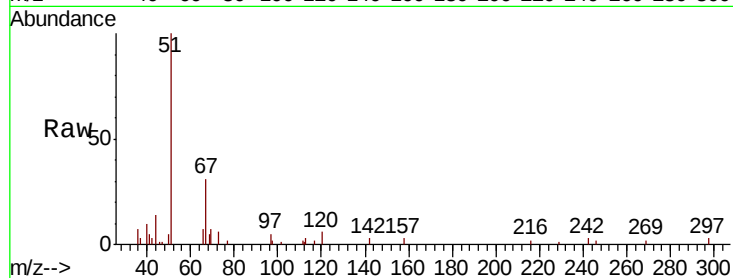




#3
Chlorodifluoromethane
Concen: 0.144 ppbv
RT: 3.00 min Scan# 20
Delta R.T. 0.00 min
Lab File: VL034004.D
Acq: 3 Jul 2019 3:47

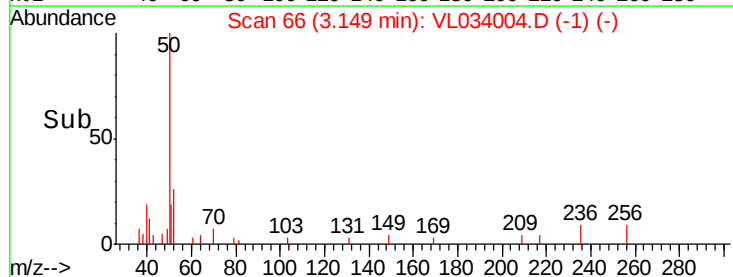
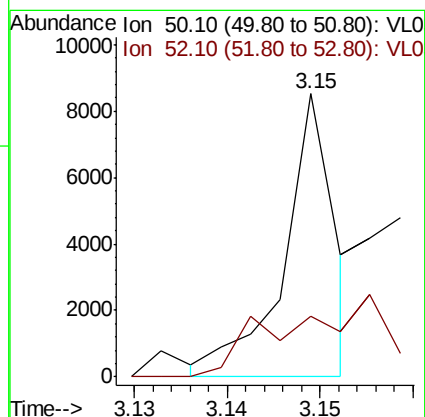
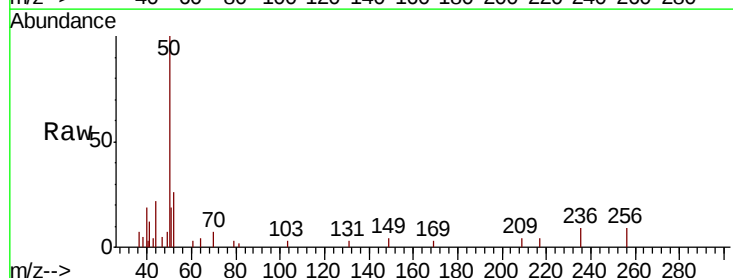
Instrument :
MSVOA_L
ClientSampled :

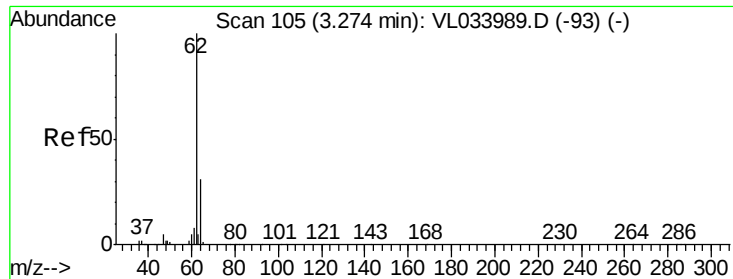
Tot Ion: 51 Resp: 15776
Ion Ratio Lower Upper
51 100
67 27.7 17.3 25.9#



#4
Chloromethane
Concen: 0.051 ppbv
RT: 3.15 min Scan# 66
Delta R.T. -0.01 min
Lab File: VL034004.D
Acq: 3 Jul 2019 3:47

Tgt Ion: 50 Resp: 3227
Ion Ratio Lower Upper
50 100
52 22.4 27.4 41.0#





#5

Vinyl Chloride

Concen: 0.110 ppbv

RT: 3.28 min Scan# 106

Delta R.T. 0.00 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

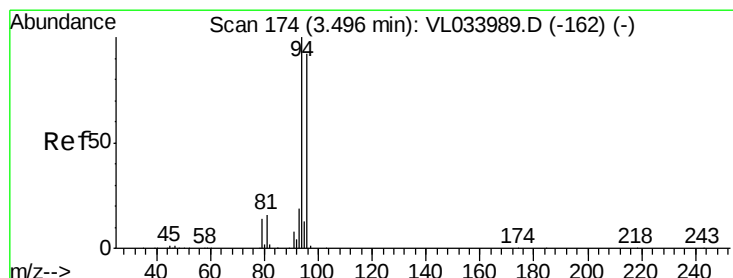
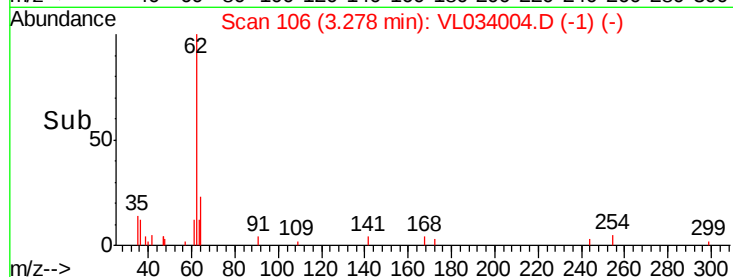
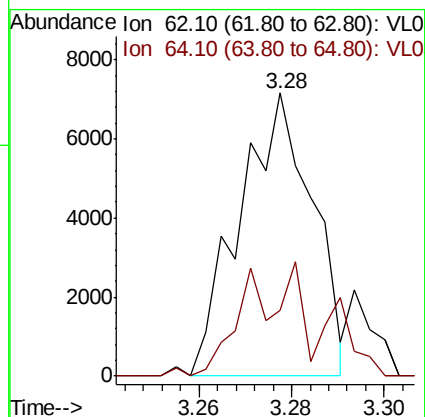
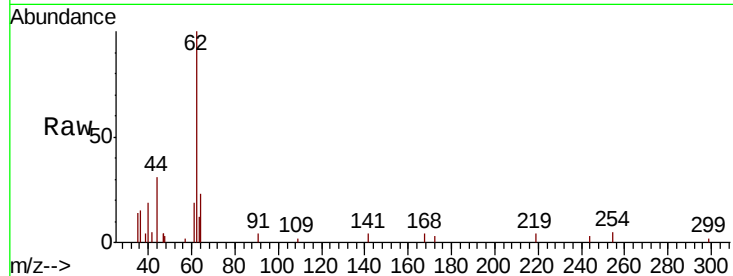
Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 62 Resp: 7821

Ion Ratio Lower Upper

62 100

64 23.4 24.4 36.6#



#6

Bromomethane

Concen: 0.045 ppbv

RT: 3.49 min Scan# 172

Delta R.T. -0.01 min

Lab File: VL034004.D

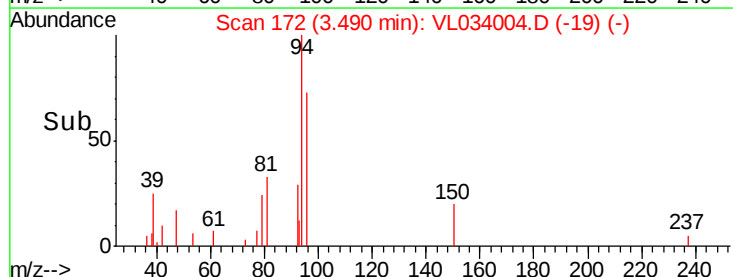
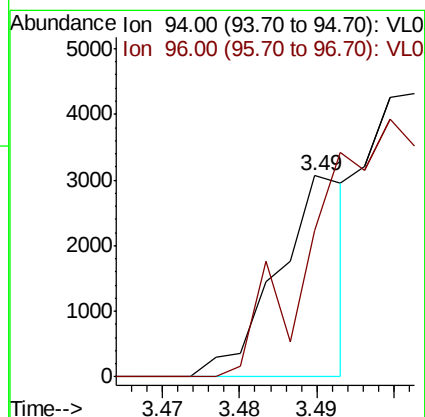
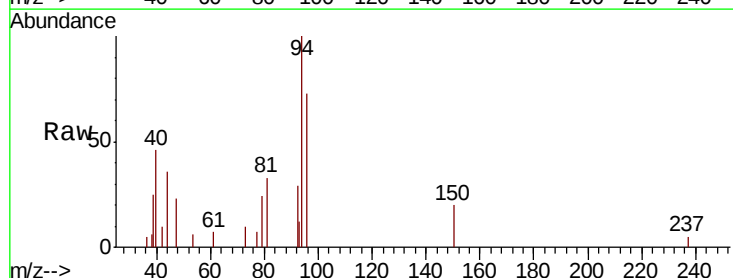
Acq: 3 Jul 2019 3:47

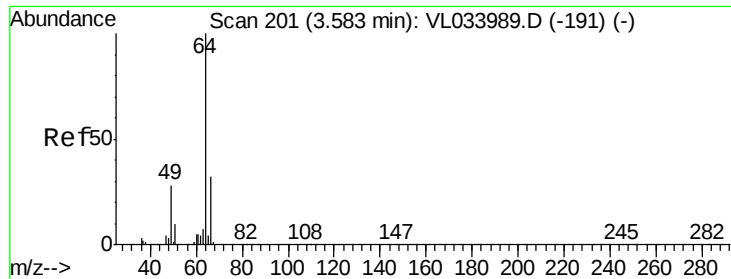
Tgt Ion: 94 Resp: 1906

Ion Ratio Lower Upper

94 100

96 72.6 73.8 110.8#





#7

Chloroethane

Concen: 0.143 ppbv

RT: 3.59 min Scan# 202

Delta R.T. 0.00 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

Instrument :

MSVOA_L

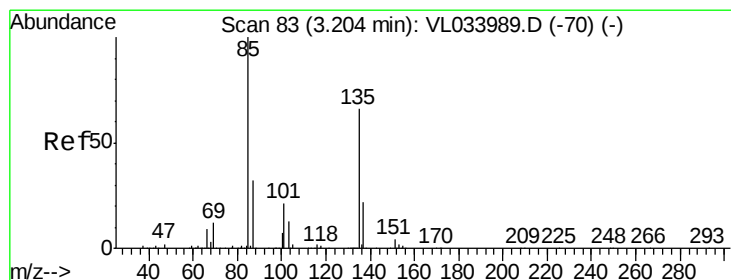
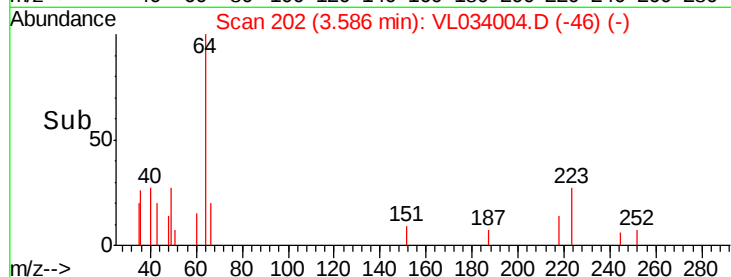
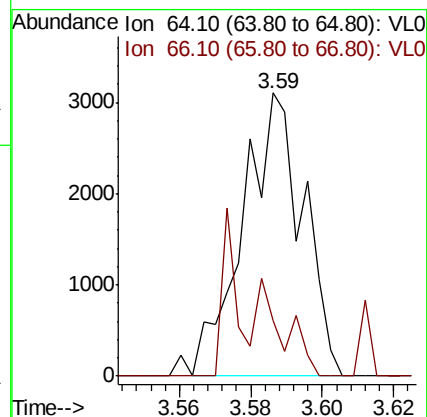
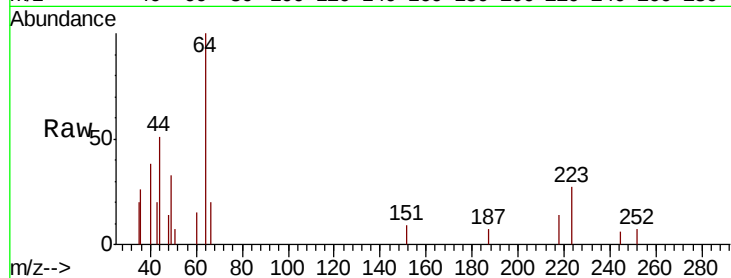
ClientSampleId :

Tot Ion: 64 Resp: 3635

Ion Ratio Lower Upper

64 100

66 19.6 25.3 37.9#



#8

Dichlorotetrafluoroethane

Concen: 0.148 ppbv

RT: 3.21 min Scan# 84

Delta R.T. 0.00 min

Lab File: VL034004.D

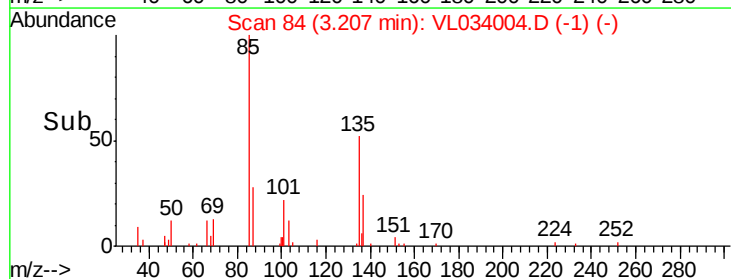
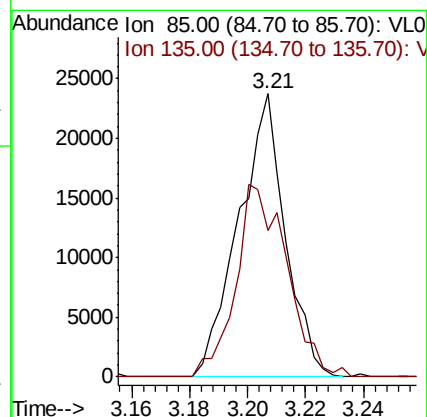
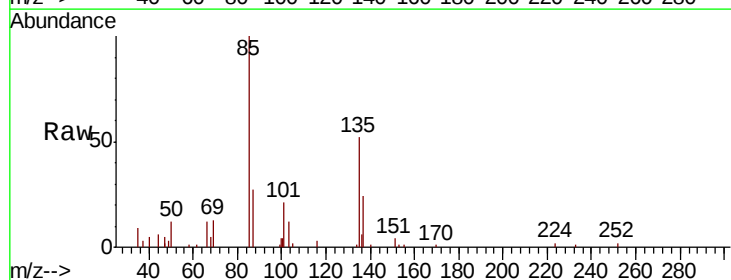
Acq: 3 Jul 2019 3:47

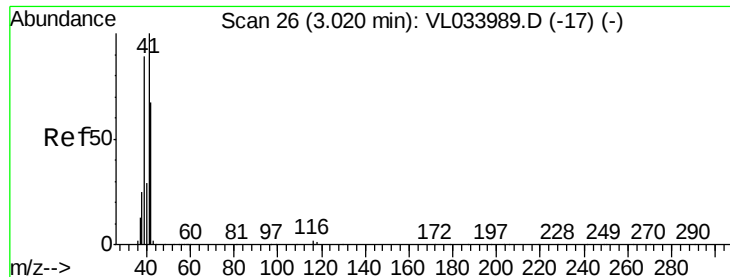
Tgt Ion: 85 Resp: 26436

Ion Ratio Lower Upper

85 100

135 75.0 55.0 82.4





#9

Propene

Concen: 0.060 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.01 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

Instrument :

MSVOA_L

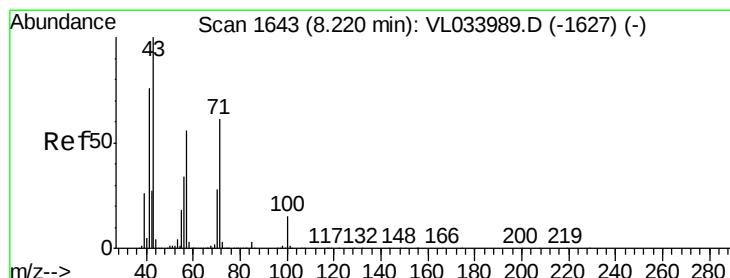
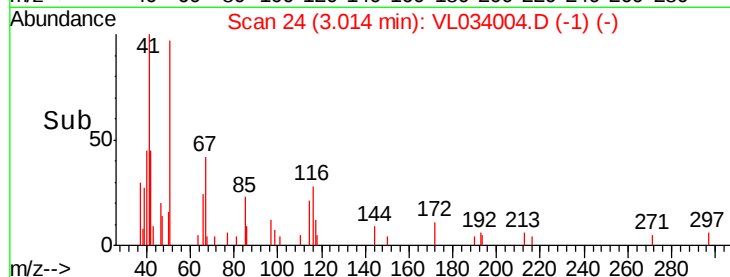
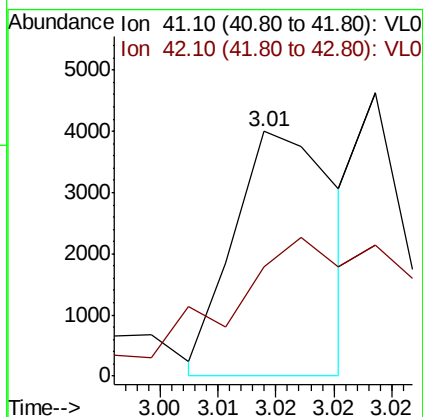
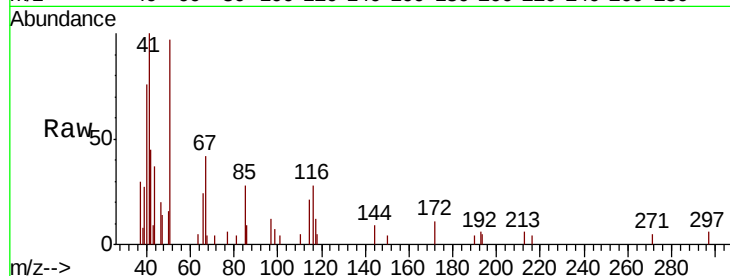
ClientSampled :

Tot Ion: 41 Resp: 2440

Ion Ratio Lower Upper

41 100

42 152.0 57.1 85.7#



#10

Heptane

Concen: 0.036 ppbv

RT: 8.21 min Scan# 1640

Delta R.T. -0.01 min

Lab File: VL034004.D

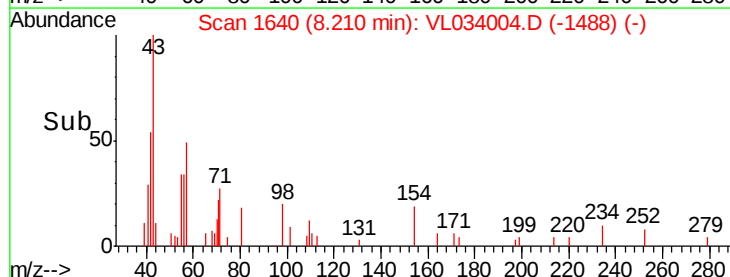
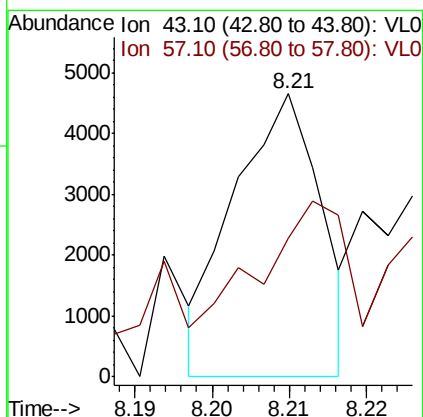
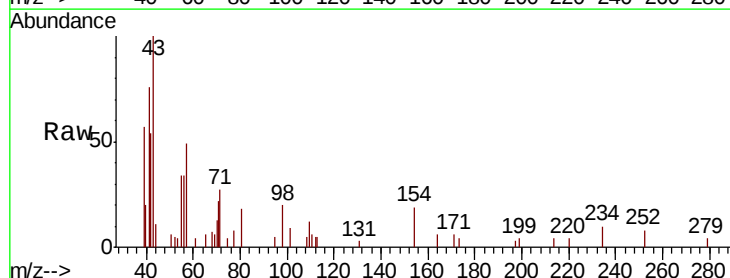
Acq: 3 Jul 2019 3:47

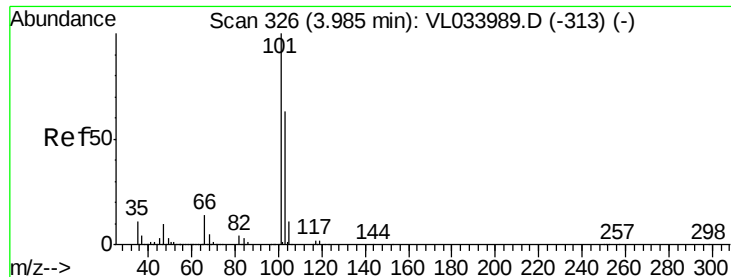
Tgt Ion: 43 Resp: 3669

Ion Ratio Lower Upper

43 100

57 134.3 44.6 66.8#

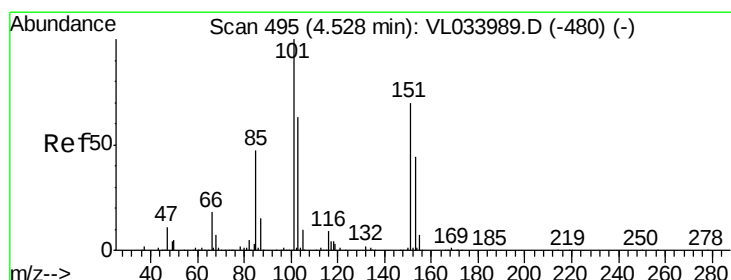
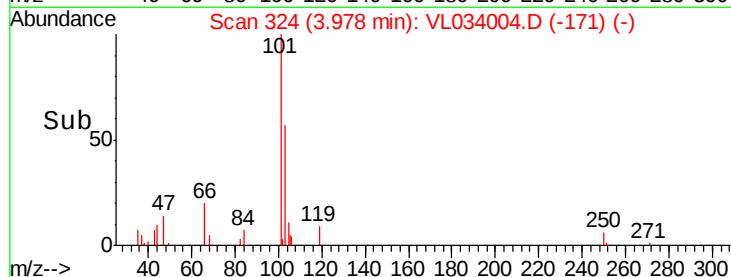
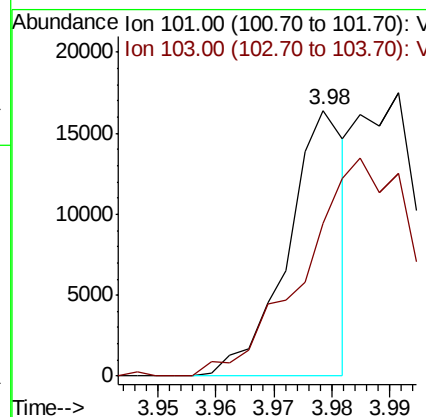
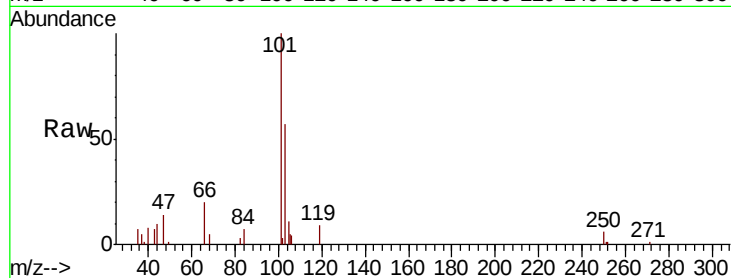




#11
 Trichlorofluoromethane
 Concen: 0.055 ppbv
 RT: 3.98 min Scan# 324
 Delta R.T. -0.01 min
 Lab File: VL034004.D
 Acq: 3 Jul 2019 3:47

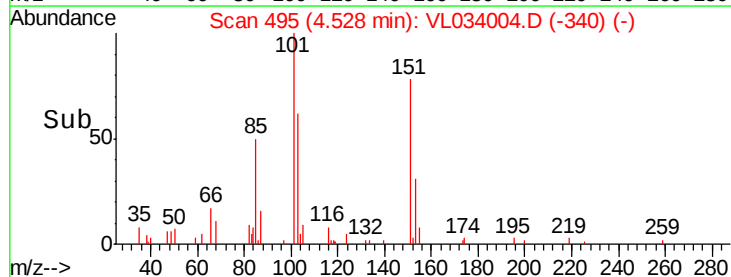
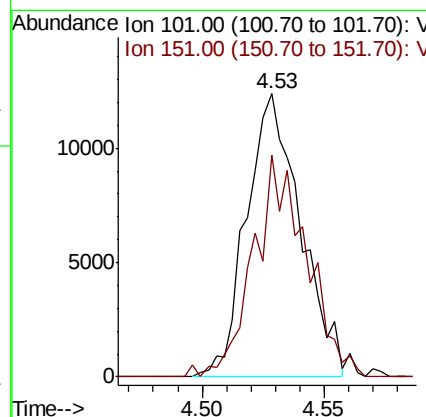
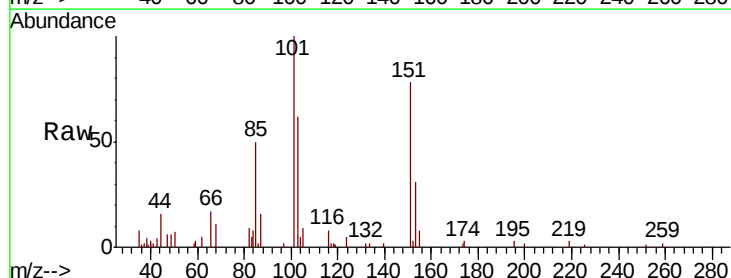
Instrument :
 MSVOA_L
 ClientSampleId :

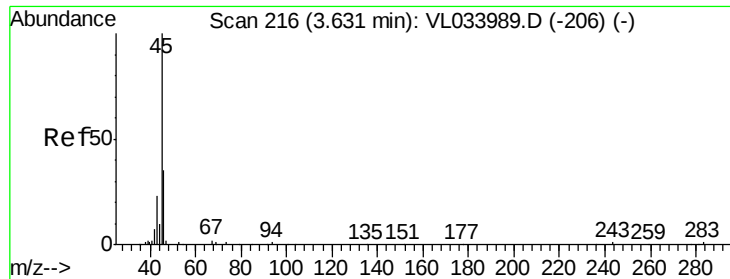
Tot Ion:101 Resp: 11429
 Ion Ratio Lower Upper
 101 100
 103 57.5 50.8 76.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.130 ppbv
 RT: 4.53 min Scan# 495
 Delta R.T. -0.00 min
 Lab File: VL034004.D
 Acq: 3 Jul 2019 3:47

Tgt Ion:101 Resp: 18988
 Ion Ratio Lower Upper
 101 100
 151 76.5 59.0 88.4





#13

Ethanol

Concen: 0.076 ppbv

RT: 3.65 min Scan# 221

Delta R.T. 0.02 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

Instrument :

MSVOA_L

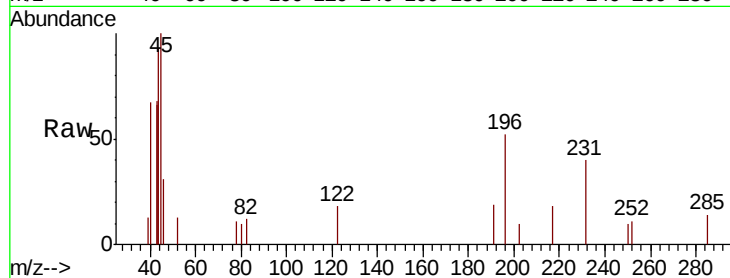
ClientSampleId :

Tot Ion: 45 Resp: 950

Ion Ratio Lower Upper

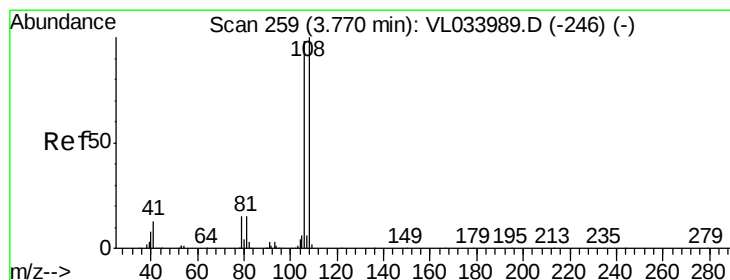
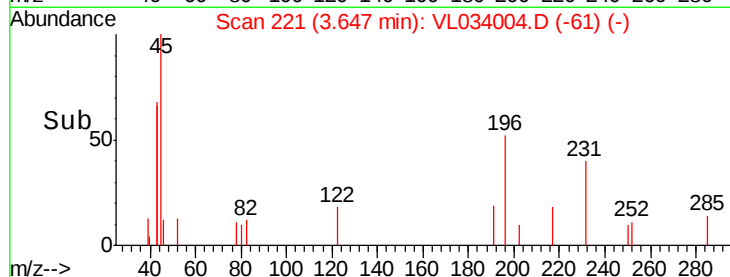
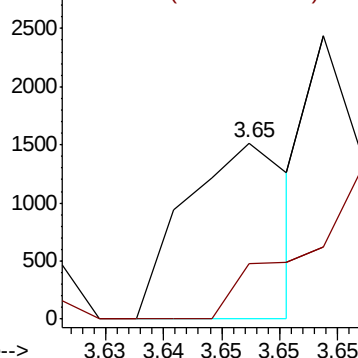
45 100

46 10.0 16.2 64.6#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 0.145 ppbv

RT: 3.77 min Scan# 259

Delta R.T. -0.00 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

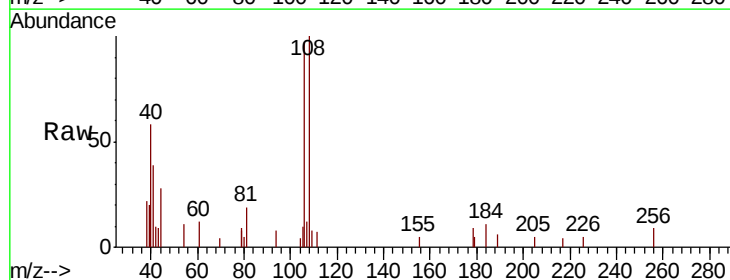
Tgt Ion: 108 Resp: 7905

Ion Ratio Lower Upper

108 100

106 92.4 85.6 128.4

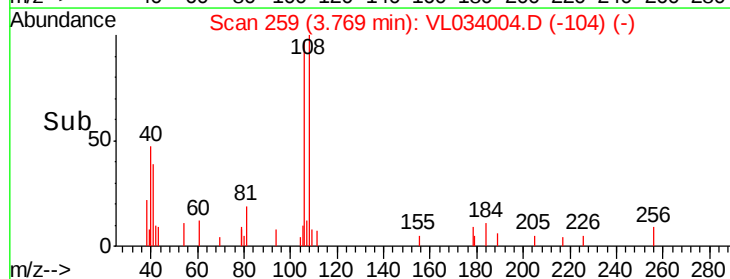
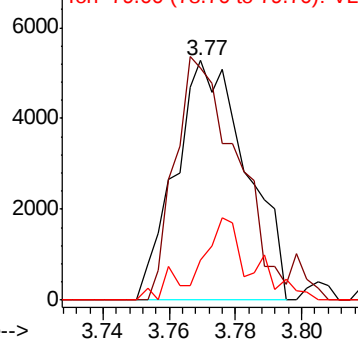
79 25.4 14.0 21.0#

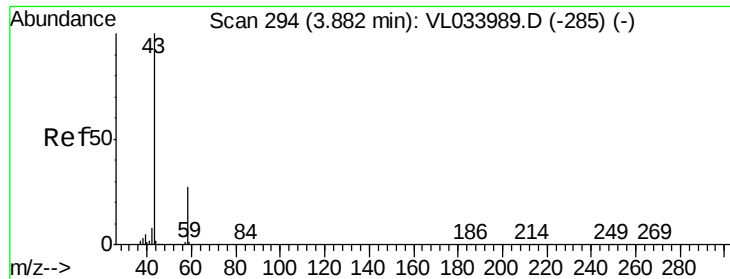


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0

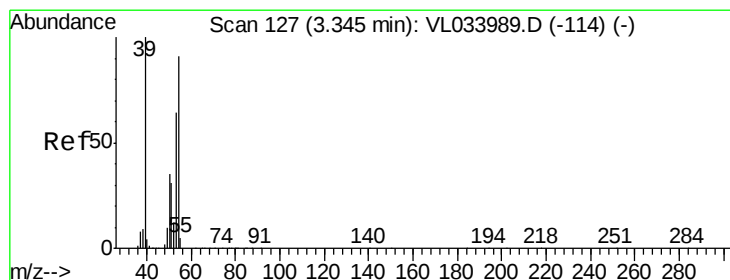
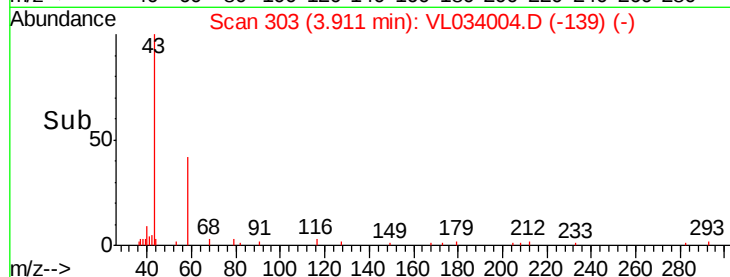
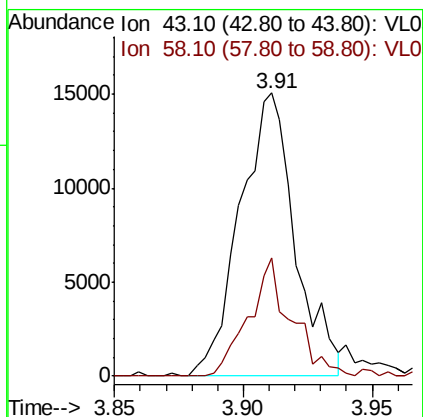
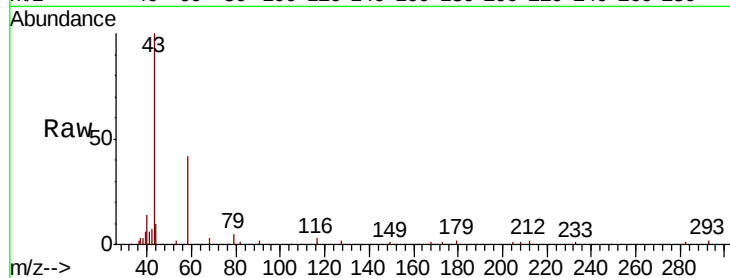




#15
Acetone
Concen: 0.151 ppbv
RT: 3.91 min Scan# 303
Delta R.T. 0.03 min
Lab File: VL034004.D
Acq: 3 Jul 2019 3:47

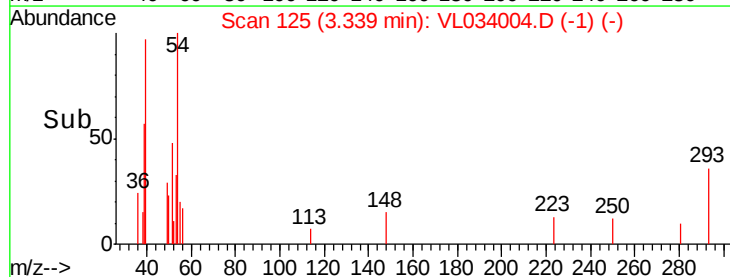
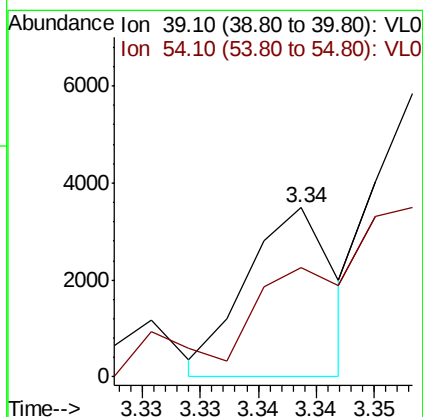
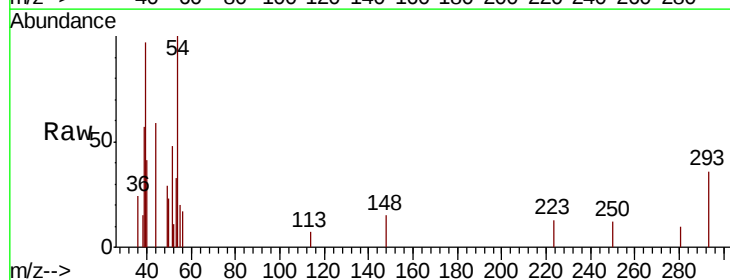
Instrument :
MSVOA_L
ClientSampled :

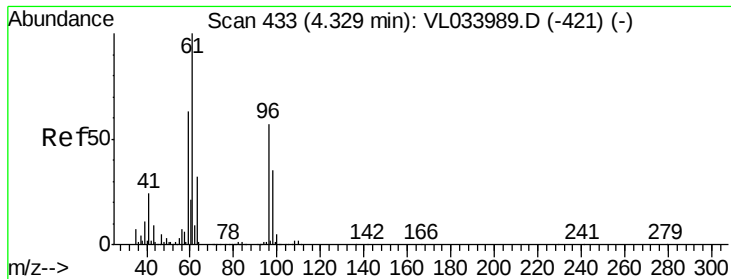
Tot Ion: 43 Resp: 22531
Ion Ratio Lower Upper
43 100
58 34.0 21.4 32.0#



#16
1,3-Butadiene
Concen: 0.035 ppbv
RT: 3.34 min Scan# 125
Delta R.T. -0.01 min
Lab File: VL034004.D
Acq: 3 Jul 2019 3:47

Tgt Ion: 39 Resp: 1830
Ion Ratio Lower Upper
39 100
54 0.0 71.4 107.2#





#18

1,1-Dichloroethene

Concen: 0.107 ppbv

RT: 4.33 min Scan# 433

Delta R.T. -0.00 min

Lab File: VL034004.D

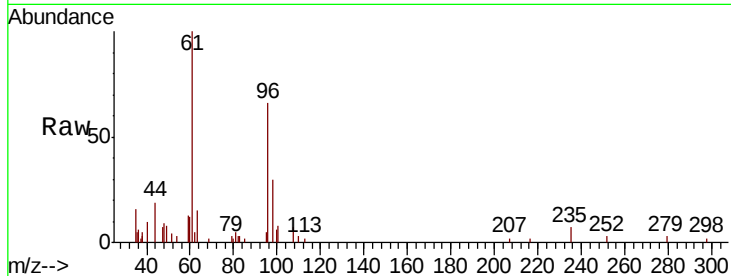
Acq: 3 Jul 2019 3:47

Instrument :

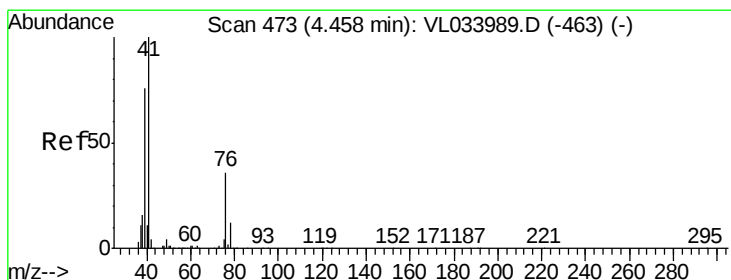
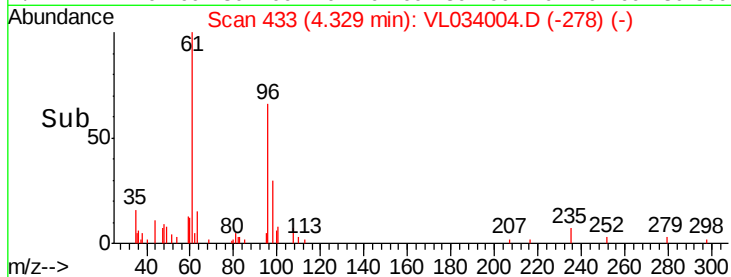
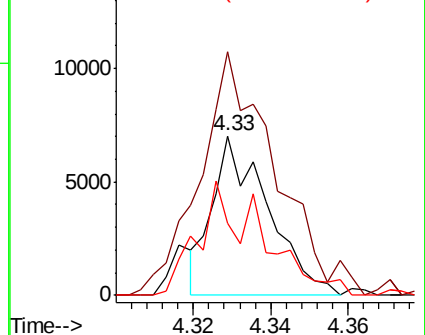
MSVOA_L

ClientSampleId :

Tot Ion:	96	Resp:	6998
Ion	Ratio	Lower	Upper
96	100		
61	138.2	139.4	209.0#
98	35.1	49.4	74.0#



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



#21

Allyl Chloride

Concen: 0.055 ppbv

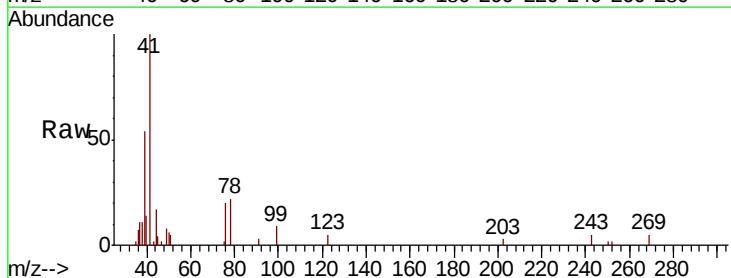
RT: 4.45 min Scan# 471

Delta R.T. -0.01 min

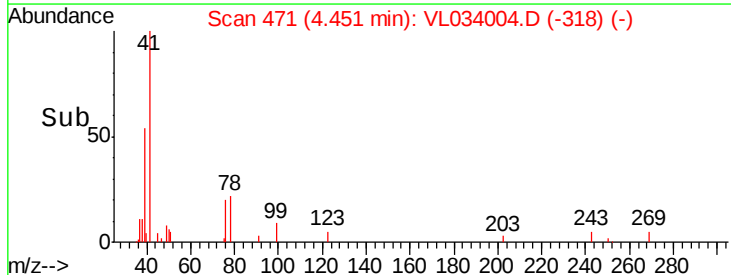
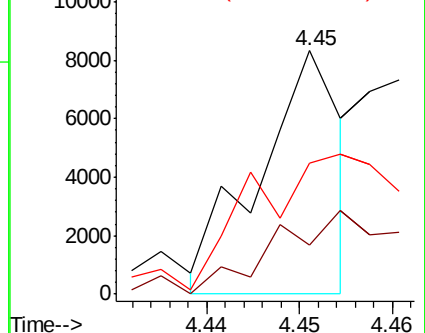
Lab File: VL034004.D

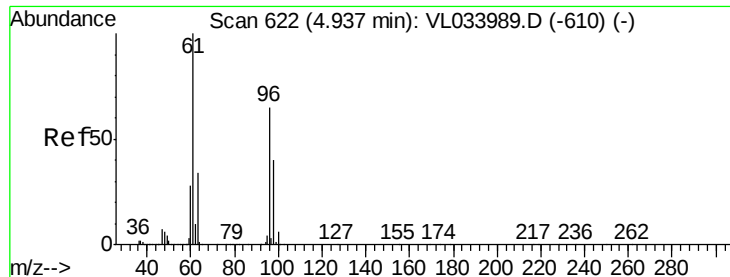
Acq: 3 Jul 2019 3:47

Tgt Ion:	41	Resp:	5099
Ion	Ratio	Lower	Upper
41	100		
76	80.0	26.8	40.2#
39	0.0	63.1	94.7#



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0





#22

trans-1,2-Dichloroethene

Concen: 0.137 ppbv

RT: 4.95 min Scan# 625

Delta R.T. 0.01 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

Instrument :

MSVOA_L

ClientSampled :

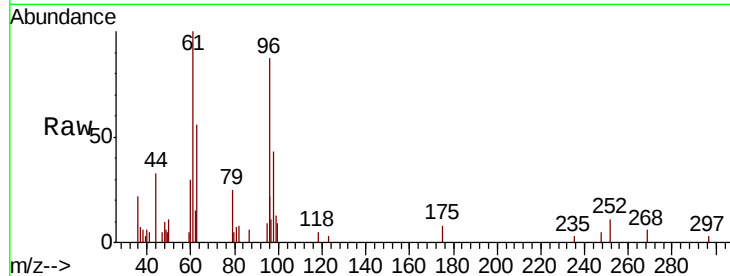
Tot Ion: 96 Resp: 8497

Ion Ratio Lower Upper

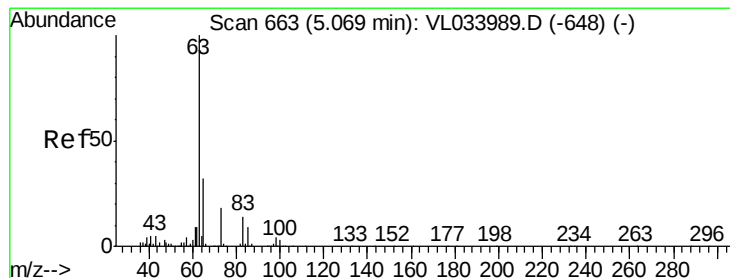
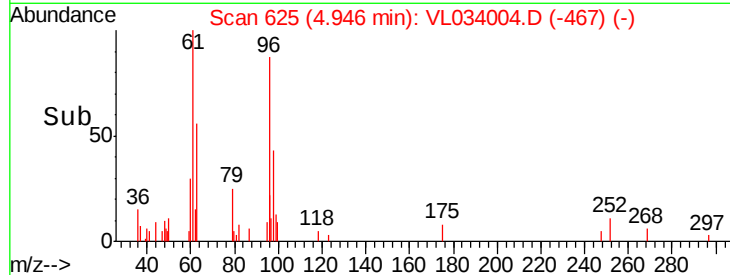
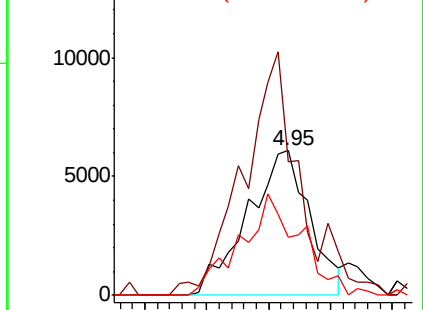
96 100

61 82.6 122.9 184.3#

98 51.9 49.6 74.4



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



#24

1,1-Dichloroethane

Concen: 0.072 ppbv

RT: 5.07 min Scan# 662

Delta R.T. -0.00 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

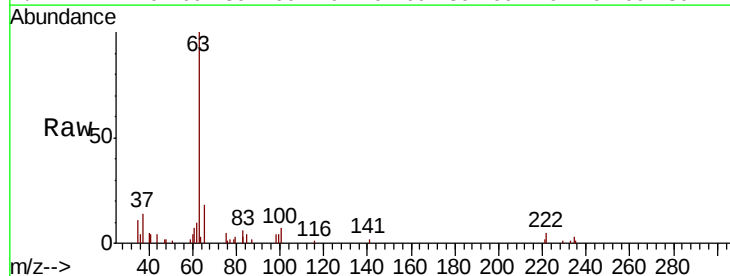
Tgt Ion: 63 Resp: 9572

Ion Ratio Lower Upper

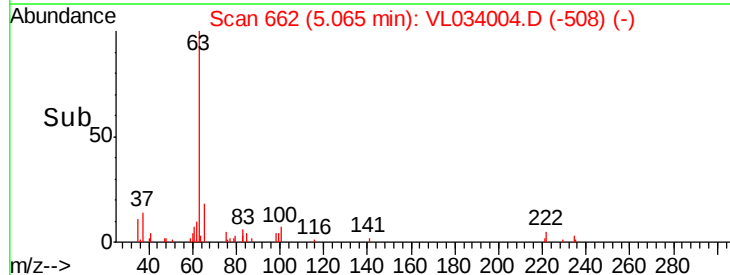
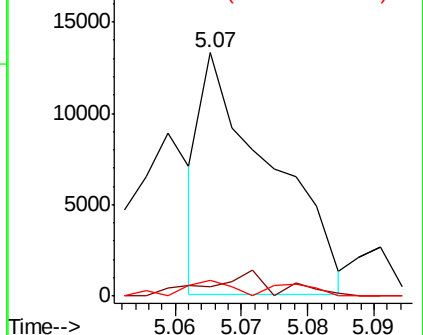
63 100

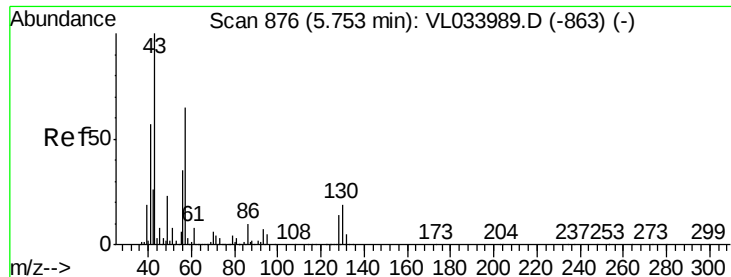
98 2.5 2.2 6.6

100 7.1 1.4 4.2#



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

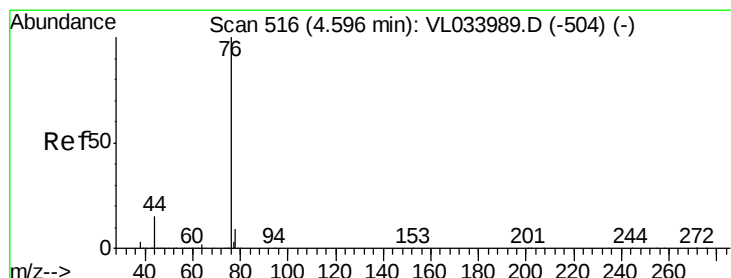
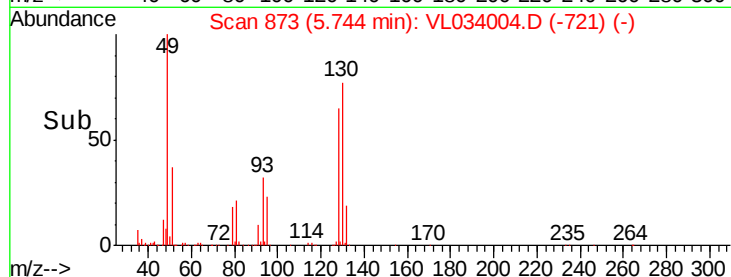
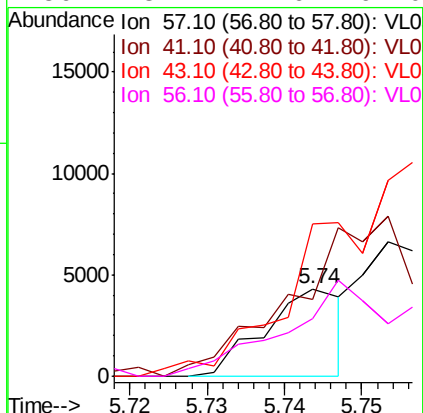
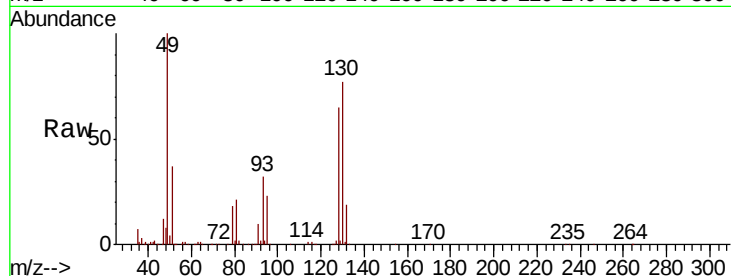




#26
Hexane
Concen: 0.032 ppbv
RT: 5.74 min Scan# 873
Delta R.T. -0.01 min
Lab File: VL034004.D
Acq: 3 Jul 2019 3:47

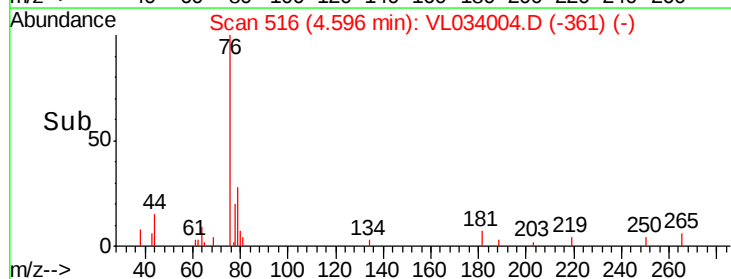
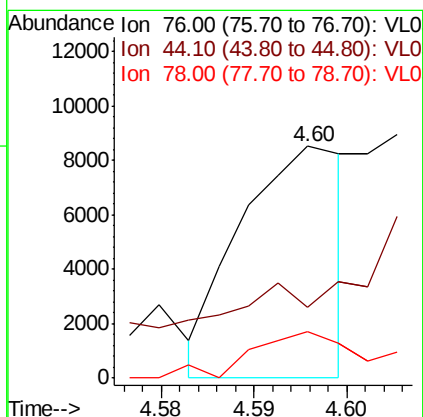
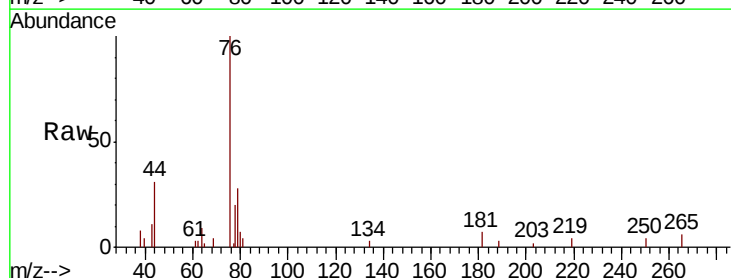
Instrument :
MSVOA_L
ClientSampleId :

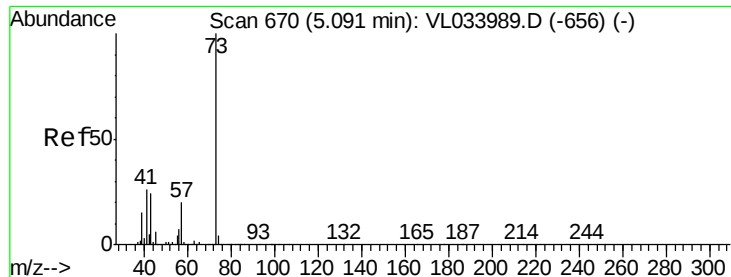
Tot Ion: 57 Resp: 3037
Ion Ratio Lower Upper
57 100
41 0.0 70.6 105.8#
43 0.0 177.6 266.4#
56 228.4 42.6 64.0#



#27
Carbon Disulfide
Concen: 0.042 ppbv
RT: 4.60 min Scan# 516
Delta R.T. -0.00 min
Lab File: VL034004.D
Acq: 3 Jul 2019 3:47

Tgt Ion: 76 Resp: 6689
Ion Ratio Lower Upper
76 100
44 0.0 12.6 18.8#
78 25.3 7.2 10.8#



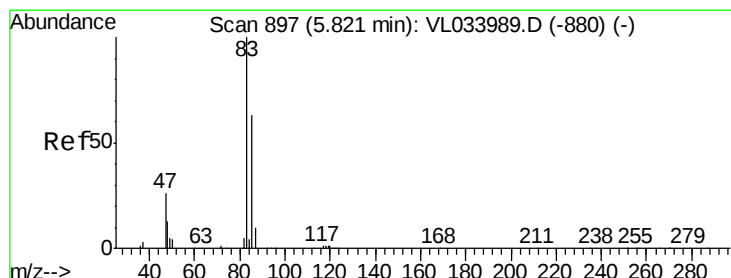
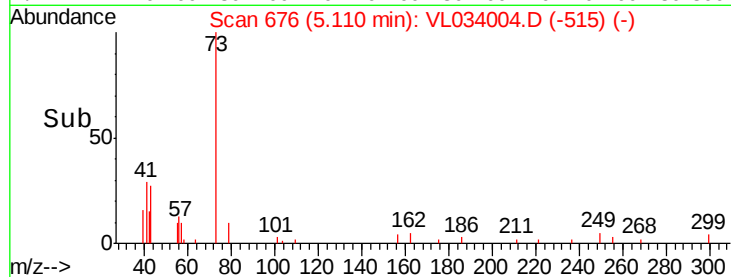
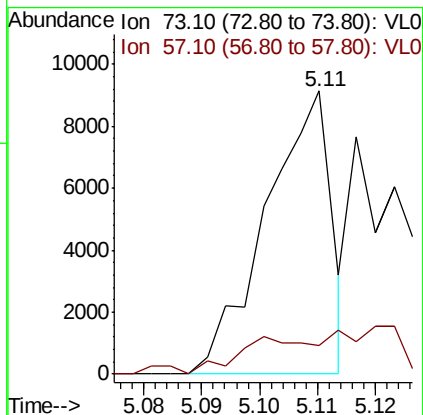
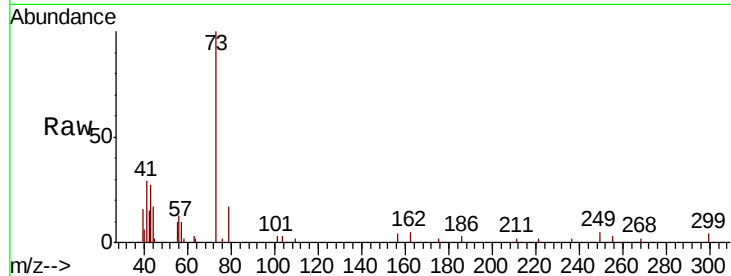


#28

Methvl tert-Butvl Ether
 Concen: 0.045 ppbv
 RT: 5.11 min Scan# 676
 Delta R.T. 0.02 min
 Lab File: VL034004.D
 Acq: 3 Jul 2019 3:47

Instrument :
 MSVOA_L
 ClientSampled :

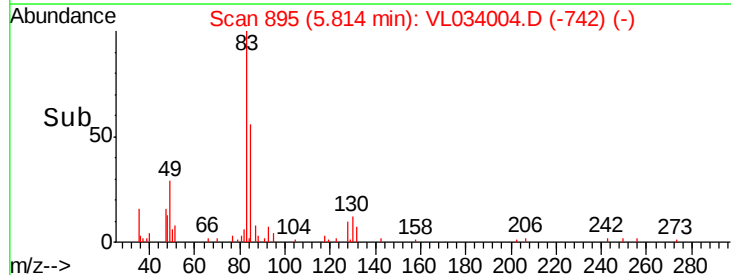
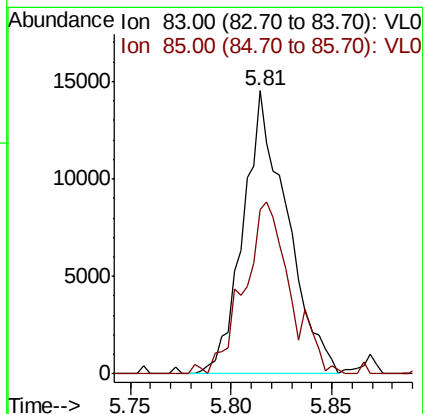
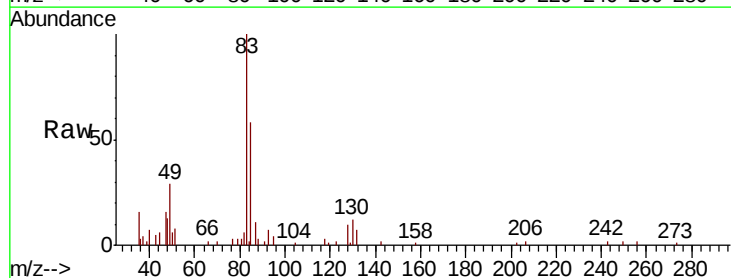
Tot Ion: 73 Resp: 7164
 Ion Ratio Lower Upper
 73 100
 57 2.4 16.9 25.3#

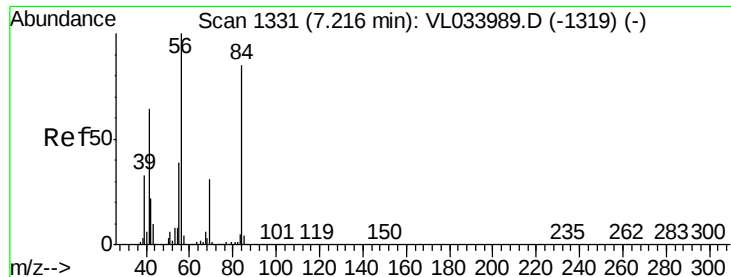


#29

Chloroform
 Concen: 0.126 ppbv
 RT: 5.81 min Scan# 895
 Delta R.T. -0.01 min
 Lab File: VL034004.D
 Acq: 3 Jul 2019 3:47

Tgt Ion: 83 Resp: 22133
 Ion Ratio Lower Upper
 83 100
 85 57.8 50.6 75.8

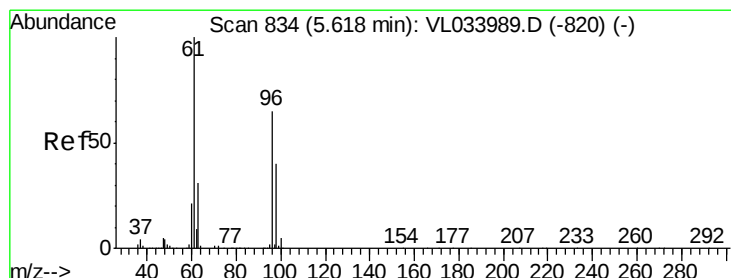
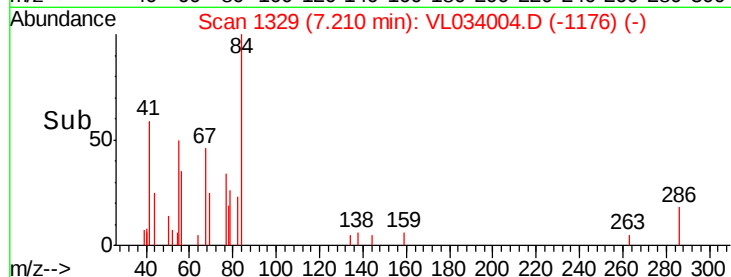
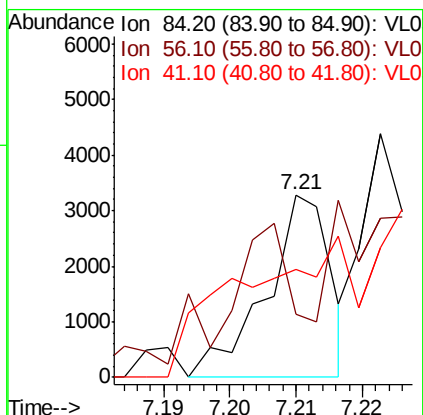
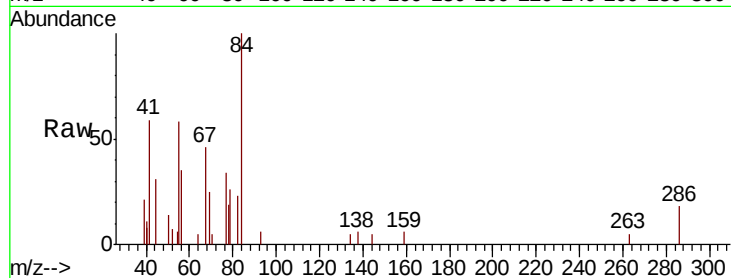




#30
Cvclohexane
Concen: 0.031 ppbv
RT: 7.21 min Scan# 1329
Delta R.T. -0.01 min
Lab File: VL034004.D
Acq: 3 Jul 2019 3:47

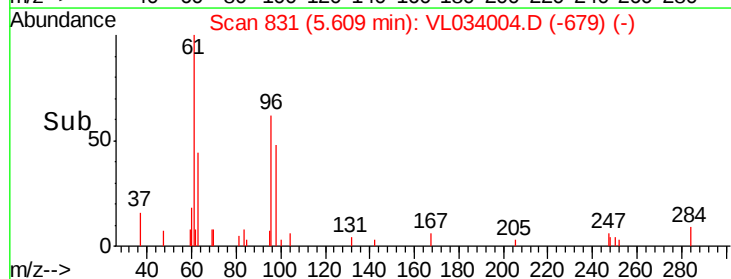
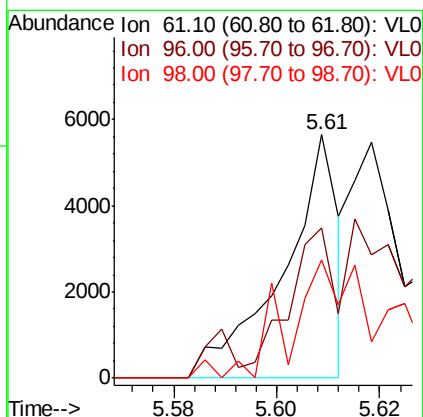
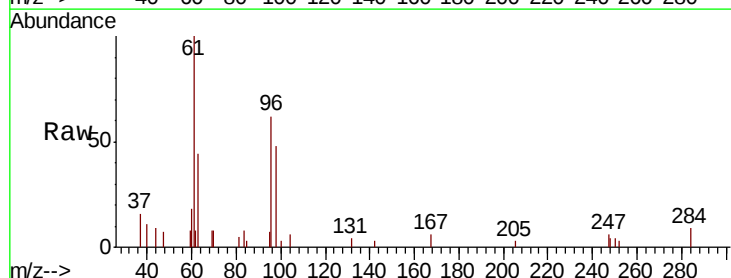
Instrument :
MSVOA_L
ClientSampled :

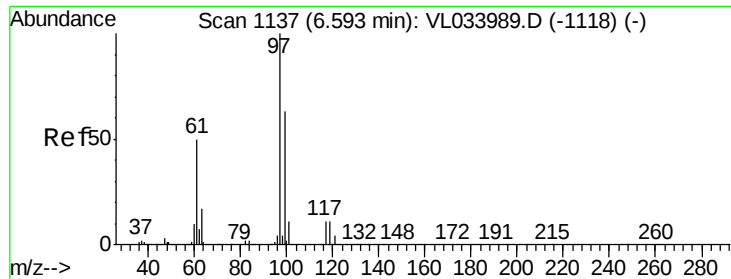
Tot Ion: 84 Resp: 2208
Ion Ratio Lower Upper
84 100
56 0.0 103.7 155.5#
41 0.0 62.6 94.0#



#31
cis-1,2-Dichloroethene
Concen: 0.046 ppbv
RT: 5.61 min Scan# 831
Delta R.T. -0.01 min
Lab File: VL034004.D
Acq: 3 Jul 2019 3:47

Tgt Ion: 61 Resp: 4171
Ion Ratio Lower Upper
61 100
96 61.7 51.8 77.6
98 48.4 32.1 48.1#





#32

1,1,1-Trichloroethane

Concen: 0.107 ppbv

RT: 6.59 min Scan# 1137

Delta R.T. -0.00 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

Instrument :

MSVOA_L

ClientSampleId :

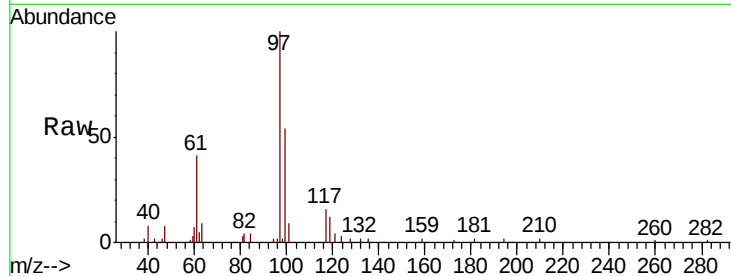
Tot Ion: 97 Resp: 19041

Ion Ratio Lower Upper

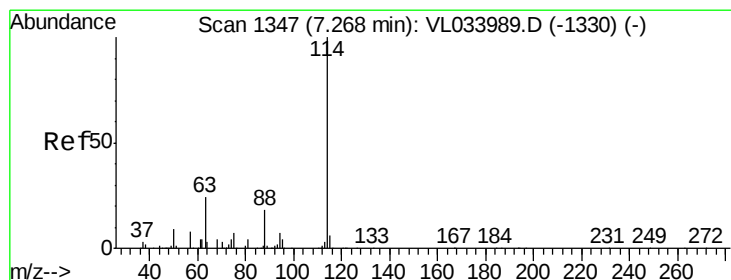
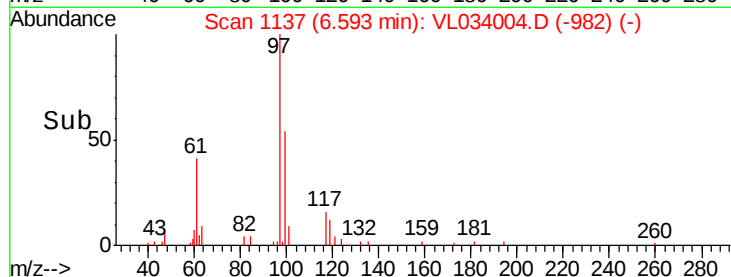
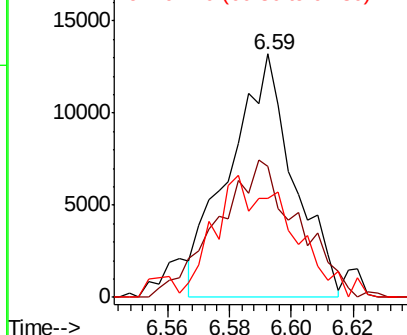
97 100

99 71.2 51.9 77.9

61 63.1 39.8 59.8#



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.26 min Scan# 1345

Delta R.T. -0.01 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

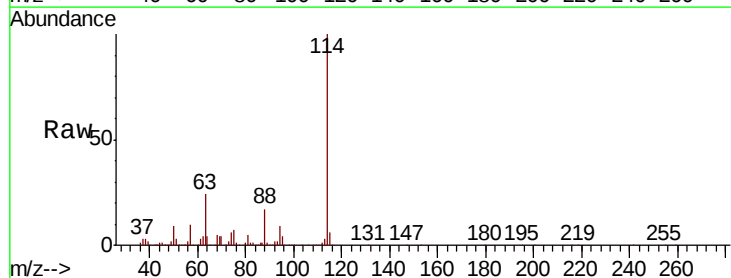
Tgt Ion: 114 Resp: 2425554

Ion Ratio Lower Upper

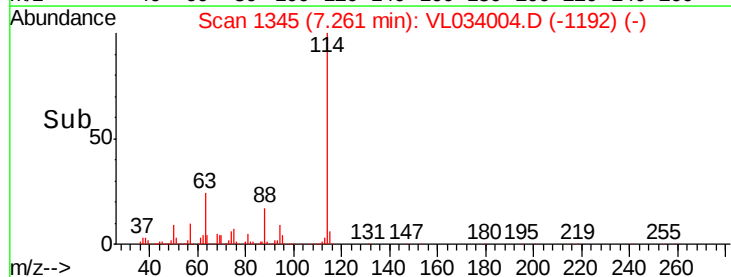
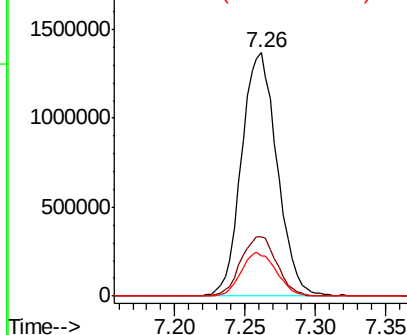
114 100

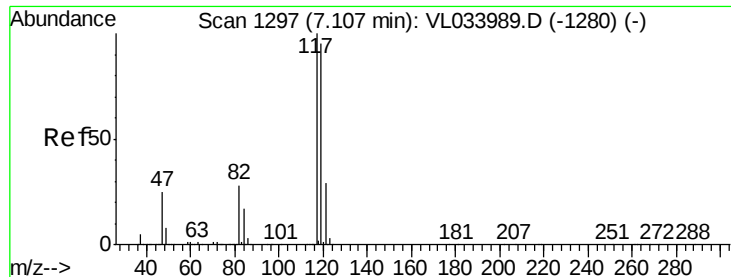
63 25.0 20.2 30.2

88 17.7 14.1 21.1



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





#35

Carbon Tetrachloride

Concen: 0.087 ppbv

RT: 7.10 min Scan# 1294

Delta R.T. -0.01 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

Instrument :

MSVOA_L

ClientSampleId :

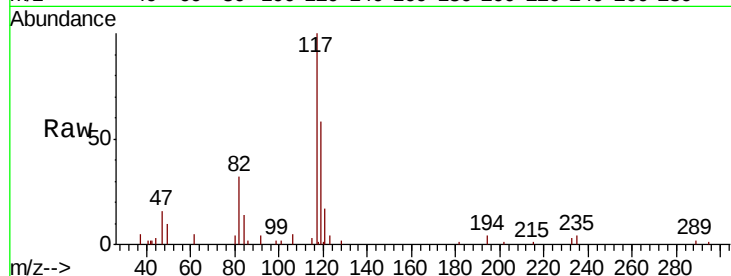
Tot Ion:117 Resp: 16778

Ion Ratio Lower Upper

117 100

119 53.4 75.8 113.6#

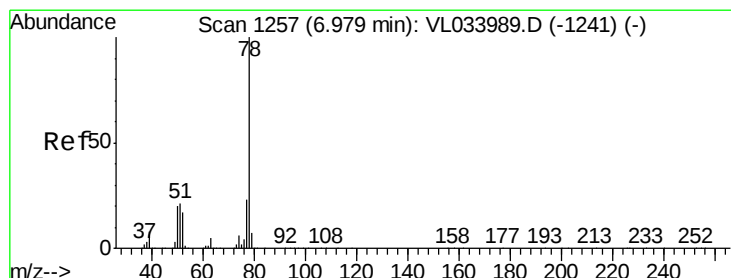
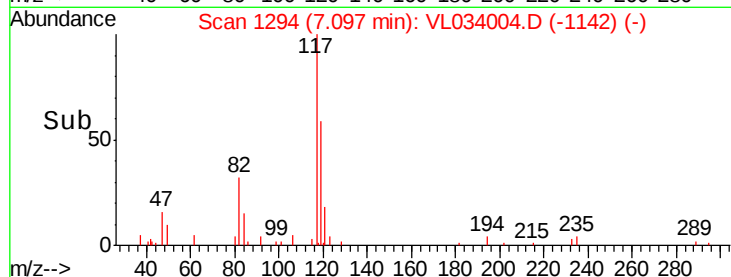
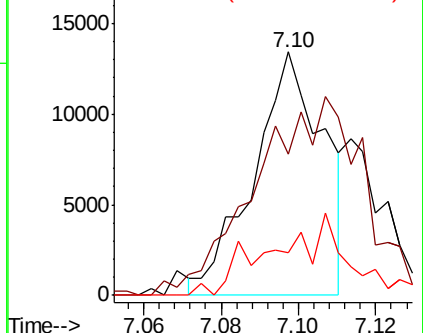
121 18.6 23.4 35.2#



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: 0.087 ppbv

RT: 6.98 min Scan# 1256

Delta R.T. -0.00 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

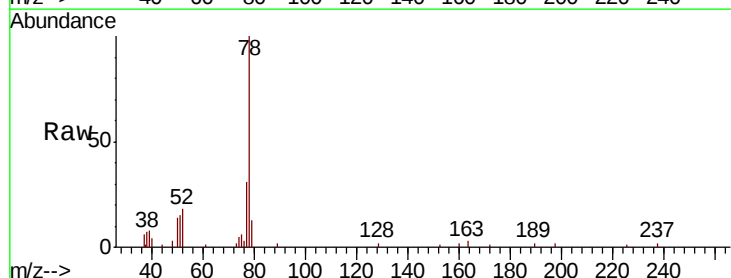
Tgt Ion: 78 Resp: 16568

Ion Ratio Lower Upper

78 100

77 30.6 18.7 28.1#

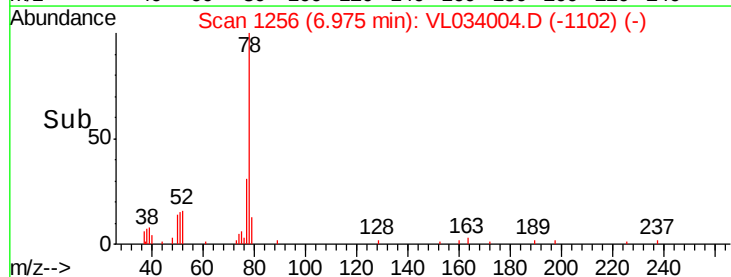
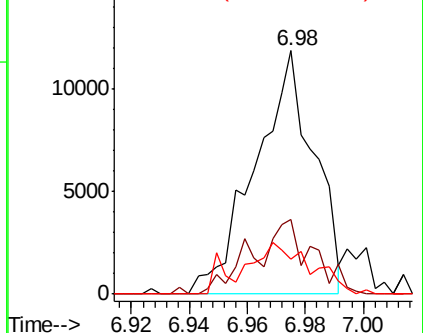
50 14.3 16.2 24.2#

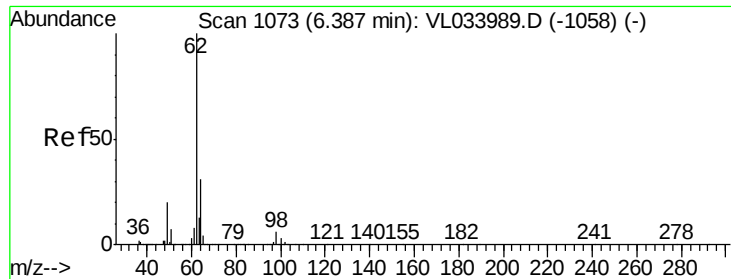


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

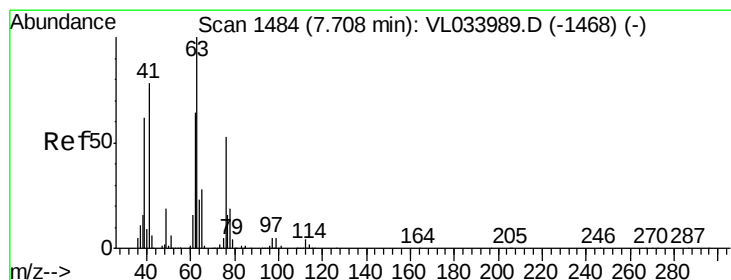
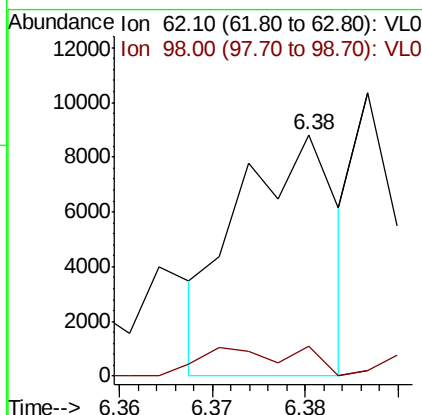
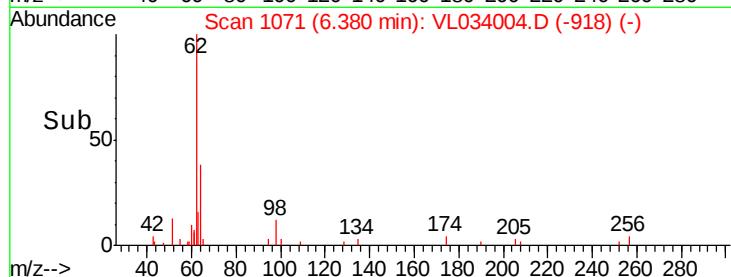
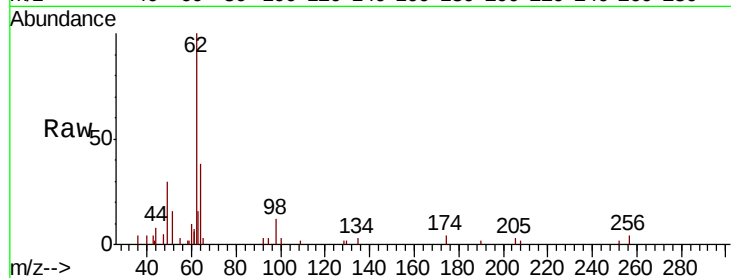




#37
 1,2-Dichloroethane
 Concen: 0.046 ppbv
 RT: 6.38 min Scan# 1071
 Delta R.T. -0.01 min
 Lab File: VL034004.D
 Acq: 3 Jul 2019 3:47

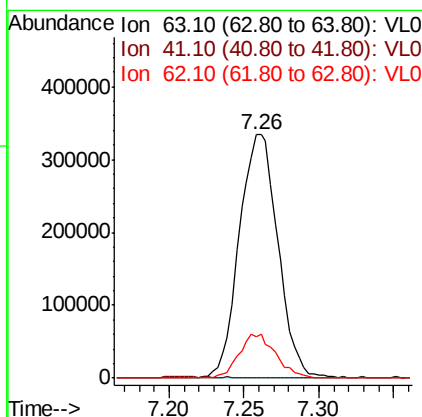
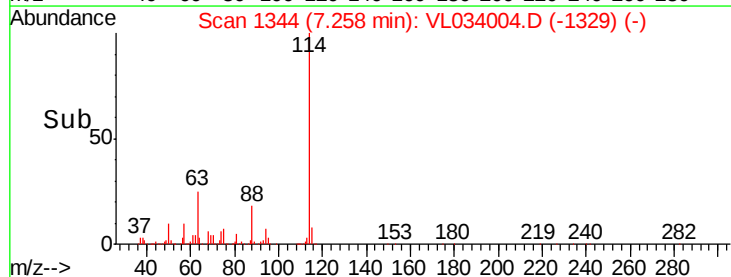
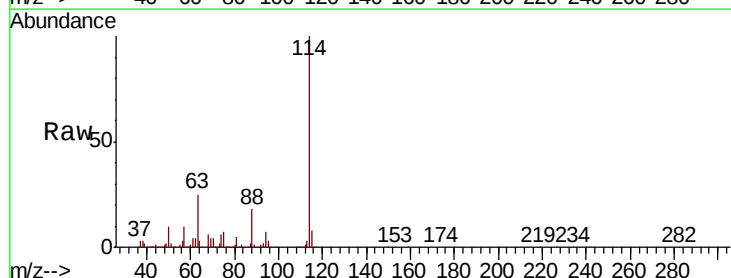
Instrument :
 MSVOA_L
 ClientSampled :

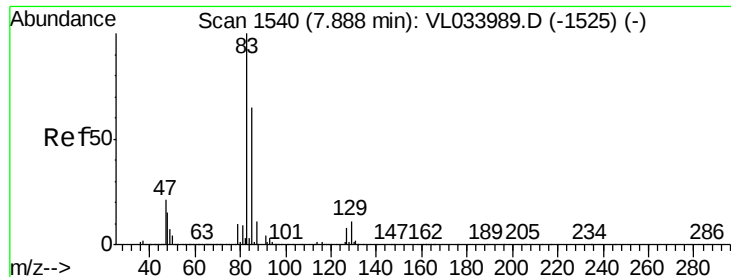
Tot Ion: 62 Resp: 6474
 Ion Ratio Lower Upper
 62 100
 98 16.6 4.4 6.6#



#39
 1,2-Dichloropropane
 Concen: 8.534 ppbv
 RT: 7.26 min Scan# 1344
 Delta R.T. -0.45 min
 Lab File: VL034004.D
 Acq: 3 Jul 2019 3:47

Tgt Ion: 63 Resp: 602312
 Ion Ratio Lower Upper
 63 100
 41 0.3 62.3 93.5#
 62 17.1 51.4 77.2#





#42

Bromodichloromethane

Concen: 0.031 ppbv

RT: 7.88 min Scan# 1537

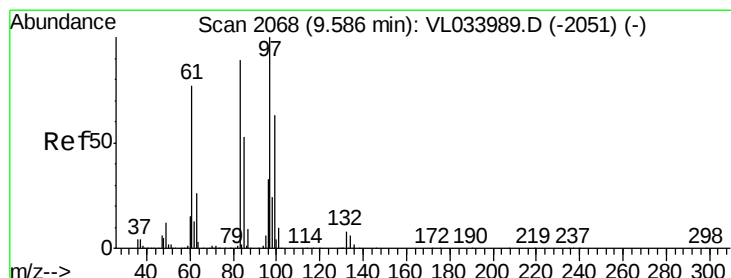
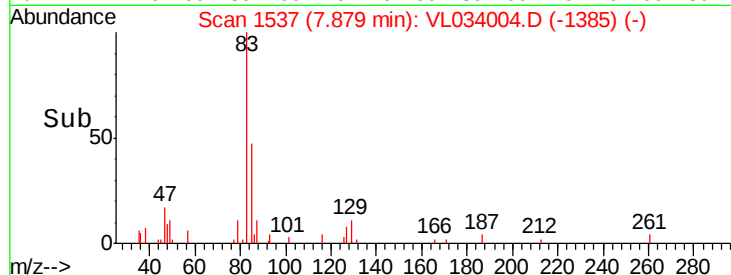
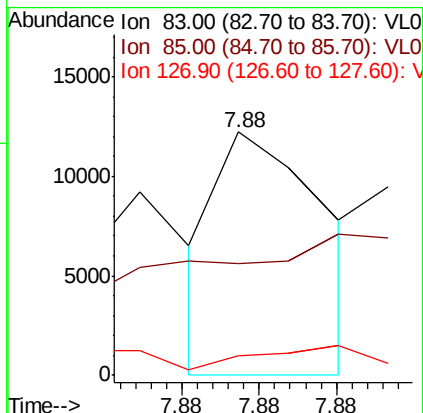
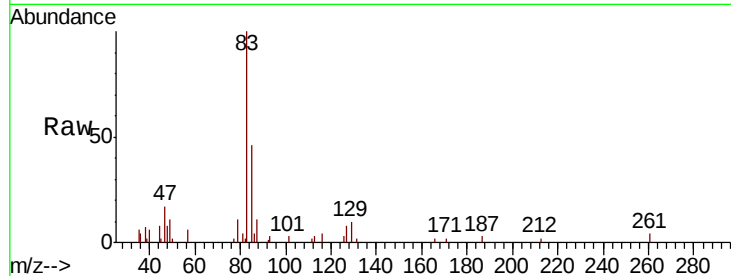
Delta R.T. -0.01 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	83	Resp:	5886
Ion	Ratio	Lower	Upper
83	100		
85	0.0	51.8	77.8#
127	13.3	6.5	9.7#



#47

1,1,2-Trichloroethane

Concen: 0.031 ppbv

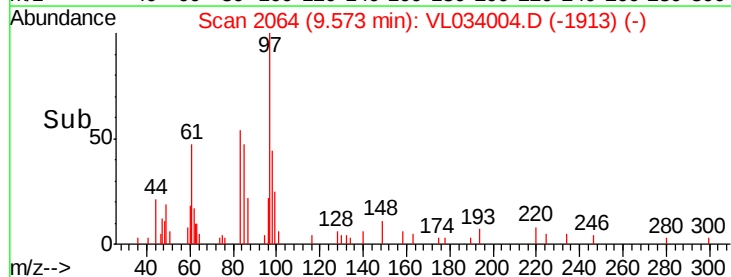
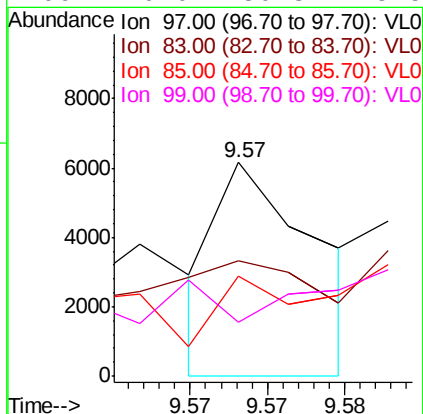
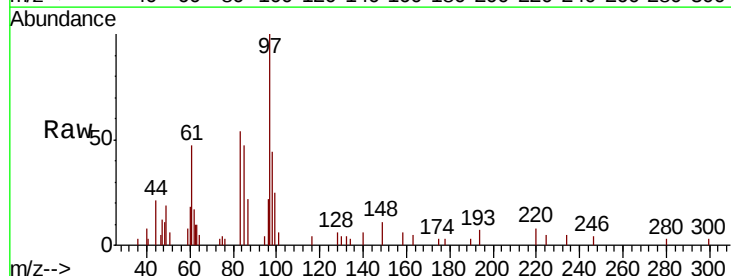
RT: 9.57 min Scan# 2064

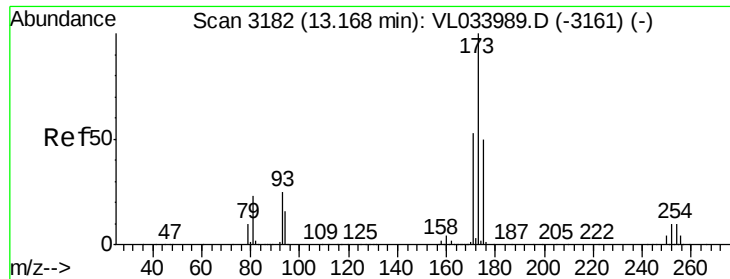
Delta R.T. -0.01 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

Tgt Ion:	97	Resp:	2733
Ion	Ratio	Lower	Upper
97	100		
83	37.5	71.1	106.7#
85	61.7	42.6	64.0
99	0.0	50.3	75.5#





#49

Bromoform

Concen: 0.080 ppbv

RT: 13.17 min Scan# 3182

Delta R.T. -0.00 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

Instrument :

MSVOA_L

ClientSampleId :

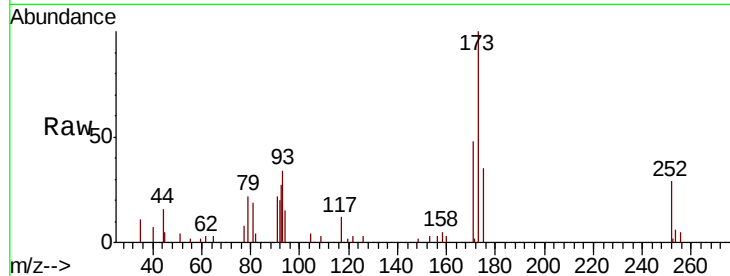
Tot Ion:173 Resp: 11587

Ion Ratio Lower Upper

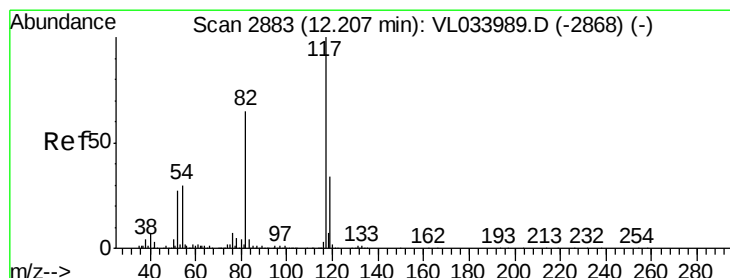
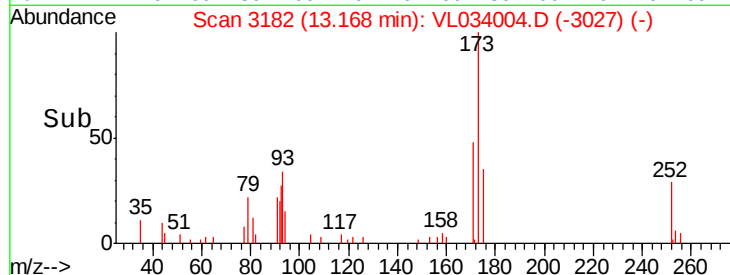
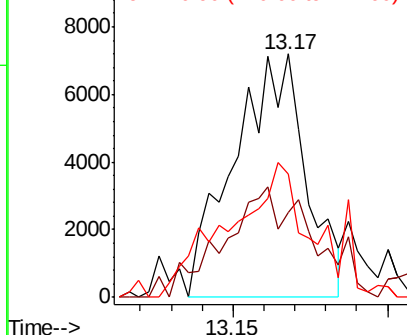
173 100

175 60.9 39.3 58.9#

171 67.9 41.4 62.0#



Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.20 min Scan# 2882

Delta R.T. -0.00 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

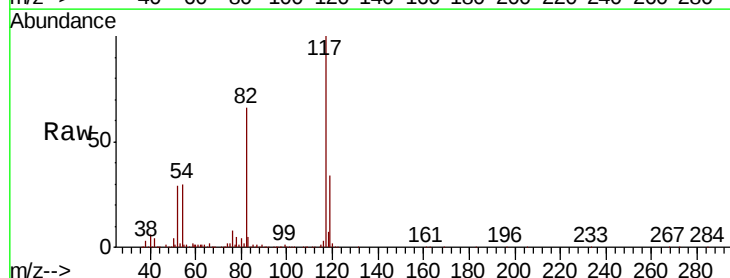
Tgt Ion:117 Resp: 2411742

Ion Ratio Lower Upper

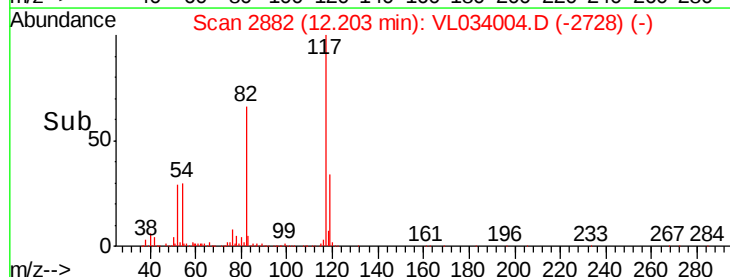
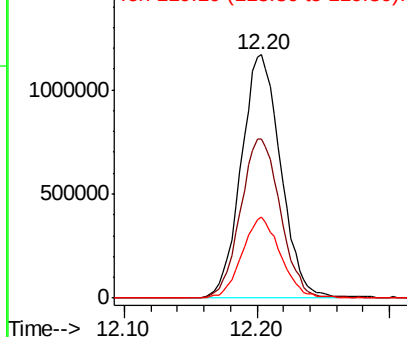
117 100

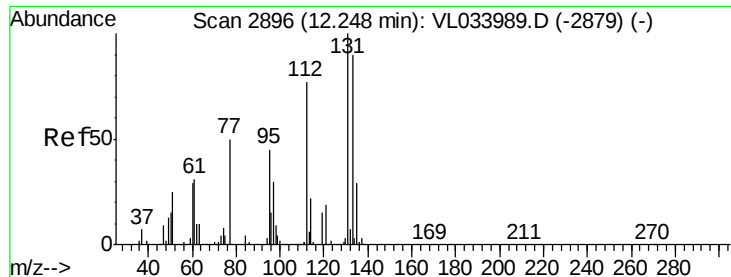
82 66.5 50.8 76.2

119 32.8 24.0 36.0



Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): V
Ion 119.10 (118.80 to 119.80): V

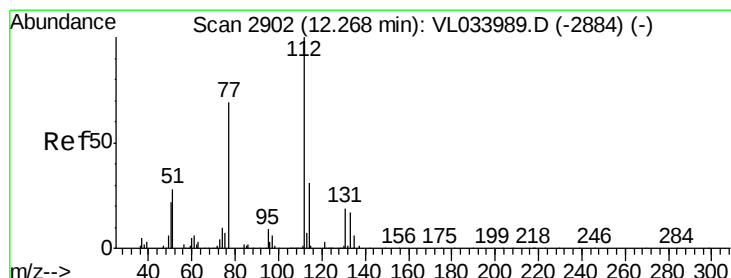
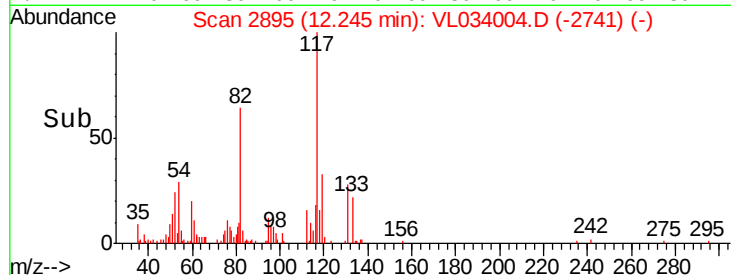
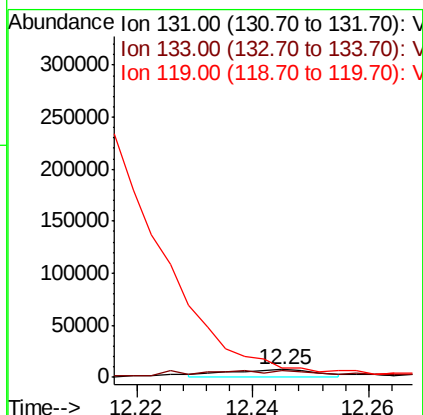
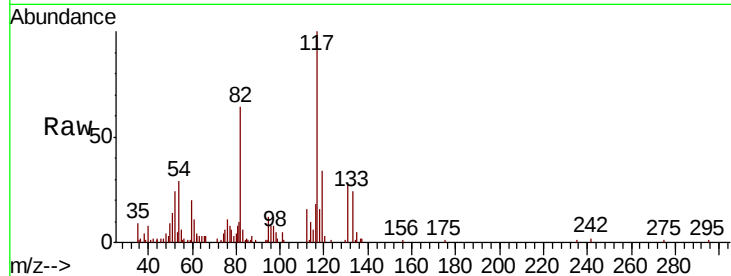




#56
1,1,1,2-Tetrachloroethane
Concen: 0.075 ppbv
RT: 12.25 min Scan# 2895
Delta R.T. -0.00 min
Lab File: VL034004.D
Acq: 3 Jul 2019 3:47

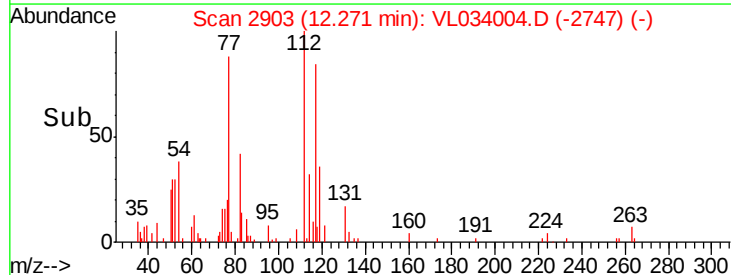
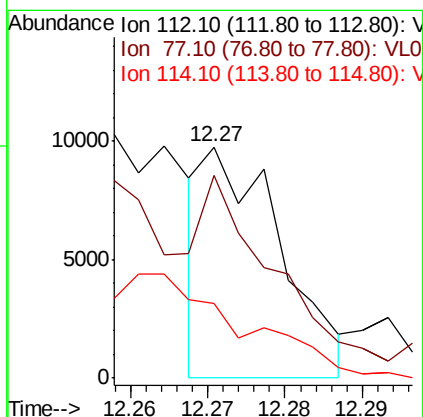
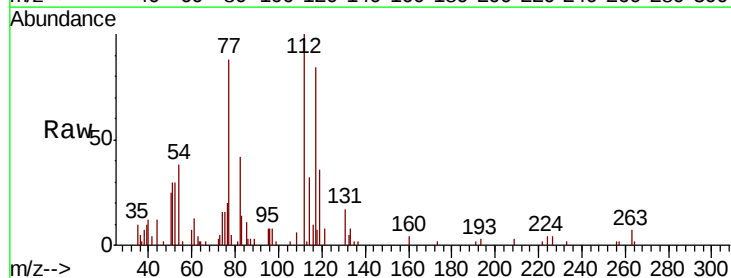
Instrument :
MSVOA_L
ClientSampleId :

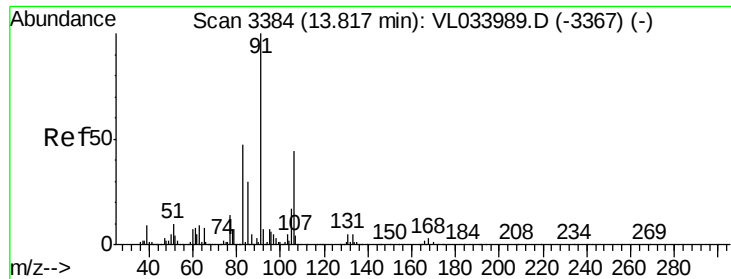
Tot Ion:131 Resp: 8131
Ion Ratio Lower Upper
131 100
133 174.2 76.2 114.2#
119 0.0 43.1 64.7#



#57
Chlorobenzene
Concen: 0.035 ppbv
RT: 12.27 min Scan# 2903
Delta R.T. 0.00 min
Lab File: VL034004.D
Acq: 3 Jul 2019 3:47

Tgt Ion:112 Resp: 6786
Ion Ratio Lower Upper
112 100
77 88.6 55.9 83.9#
114 33.9 27.6 33.8#

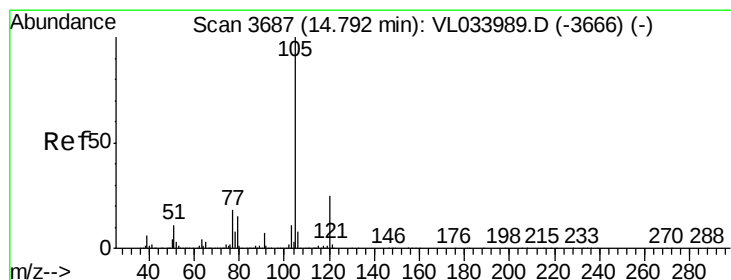
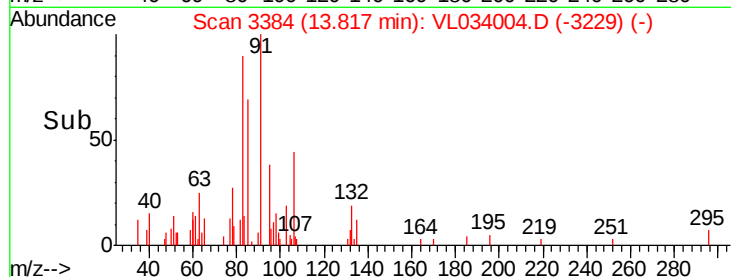
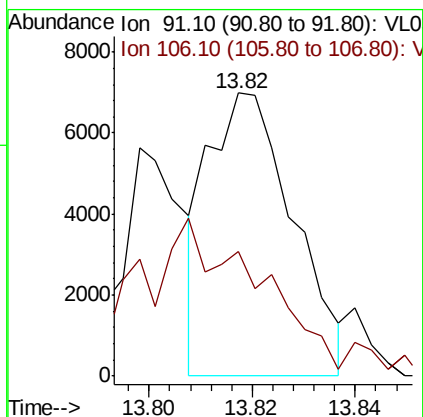
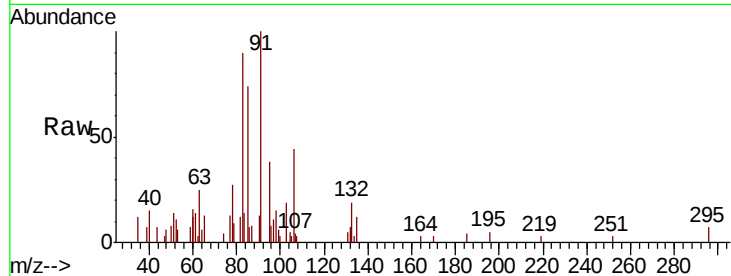




#60
o-Xylene
Concen: 0.031 ppbv
RT: 13.82 min Scan# 3384
Delta R.T. -0.00 min
Lab File: VL034004.D
Acq: 3 Jul 2019 3:47

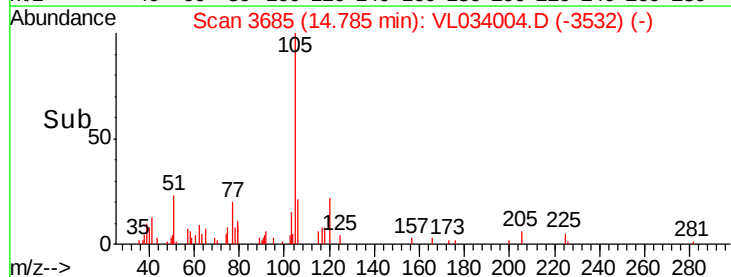
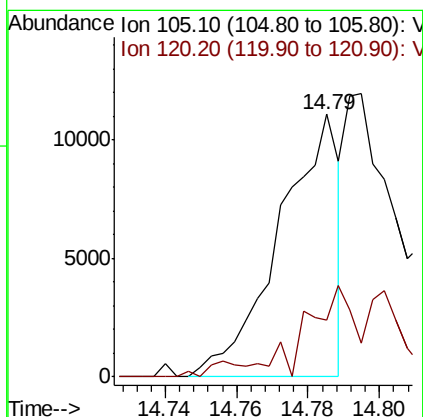
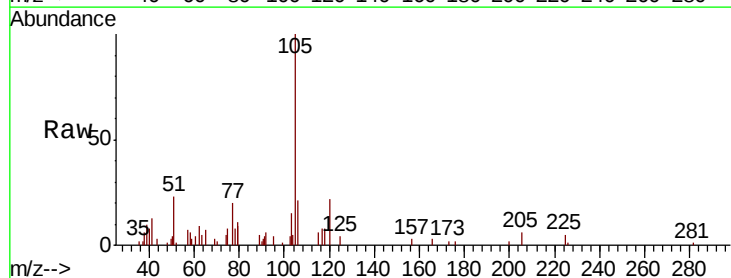
Instrument :
MSVOA_L
ClientSampled :

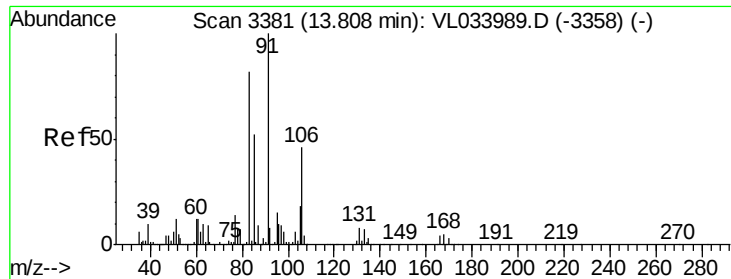
Tot Ion: 91 Resp: 8013
Ion Ratio Lower Upper
91 100
106 0.0 21.9 65.7#



#62
Isopropylbenzene
Concen: 0.032 ppbv
RT: 14.79 min Scan# 3685
Delta R.T. -0.01 min
Lab File: VL034004.D
Acq: 3 Jul 2019 3:47

Tgt Ion: 105 Resp: 12789
Ion Ratio Lower Upper
105 100
120 51.1 20.4 30.6#





#63

1,1,2,2-Tetrachloroethane

Concen: 0.041 ppbv

RT: 13.80 min Scan# 3379

Delta R.T. -0.01 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

Instrument :

MSVOA_L

ClientSampleId :

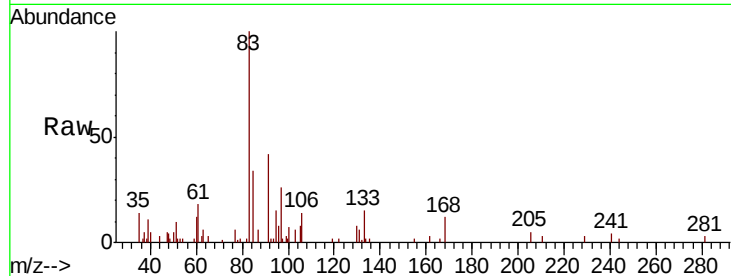
Tot Ion: 83 Resp: 8326

Ion Ratio Lower Upper

83 100

131 22.2 5.0 14.9#

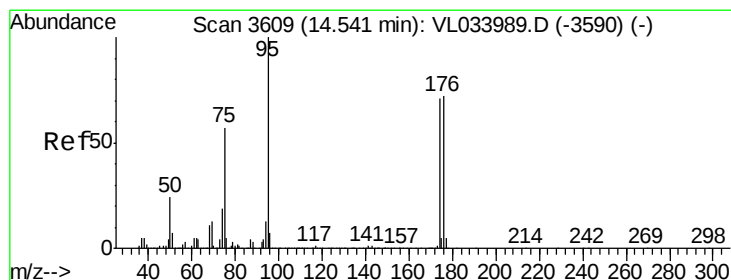
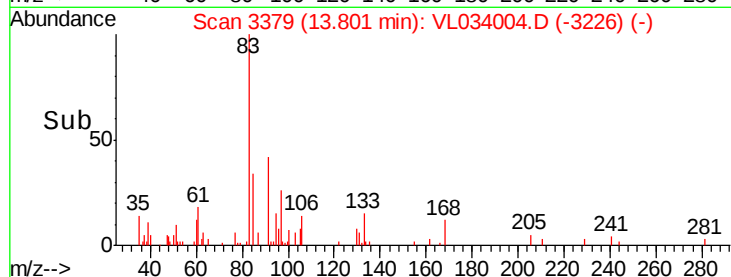
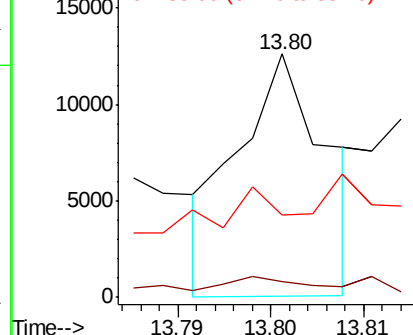
85 0.0 32.8 98.3#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0



#68

1-Bromo-4-Fluorobenzene

Concen: 9.538 ppbv

RT: 14.54 min Scan# 3609

Delta R.T. -0.00 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

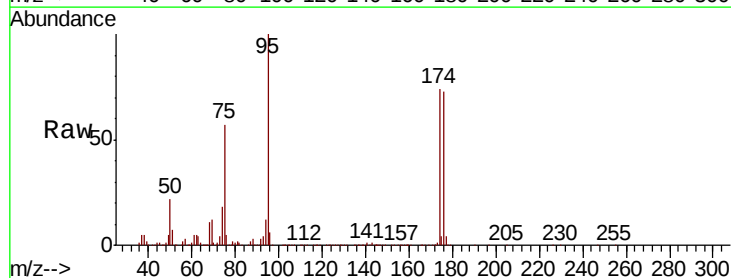
Tgt Ion: 95 Resp: 1962012

Ion Ratio Lower Upper

95 100

174 73.3 60.5 90.7

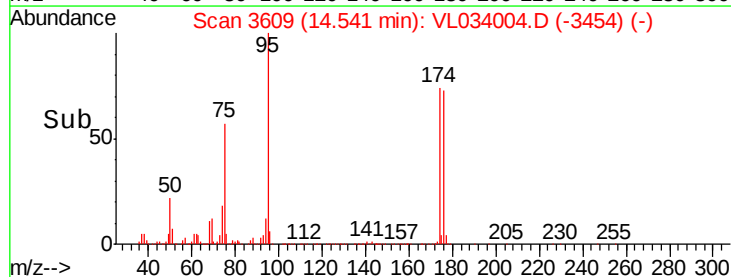
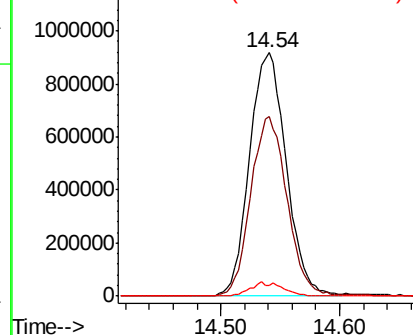
175 5.2 4.0 6.0

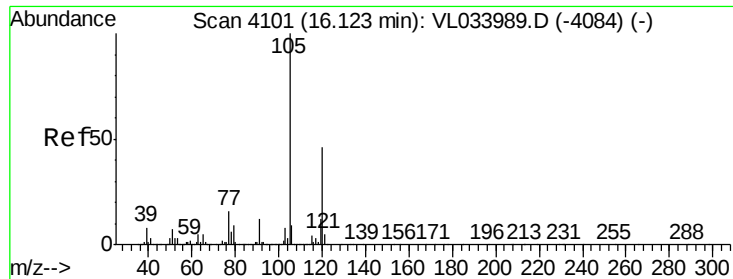


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

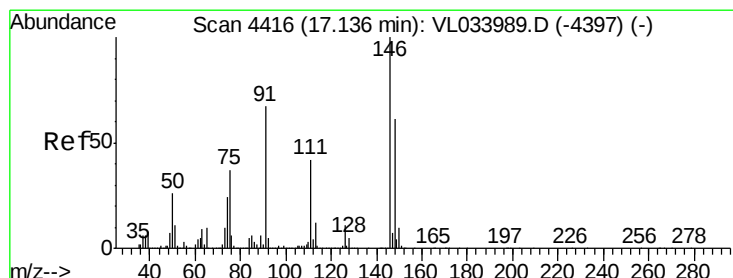
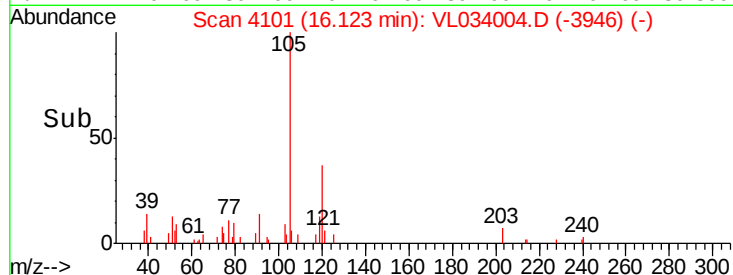
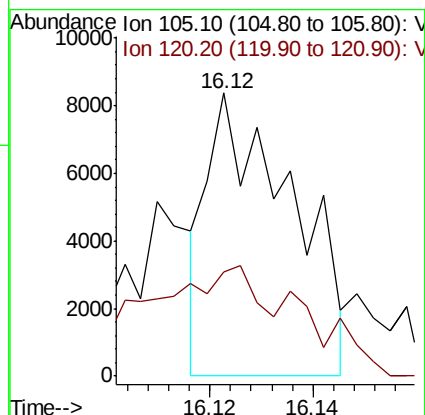
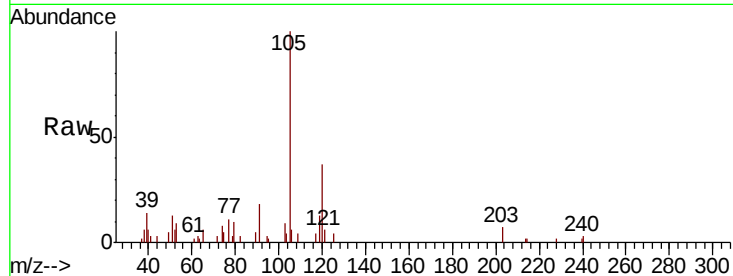




#73
 1,3,5-Trimethylbenzene
 Concen: 0.030 ppbv
 RT: 16.12 min Scan# 4101
 Delta R.T. -0.00 min
 Lab File: VL034004.D
 Acq: 3 Jul 2019 3:47

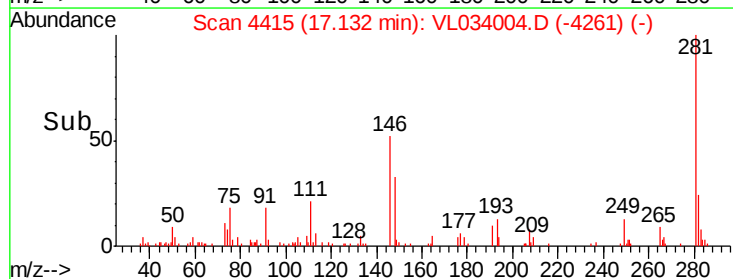
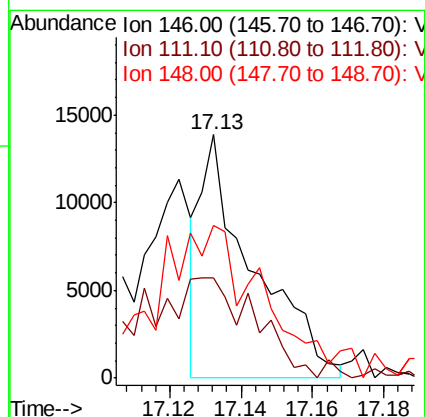
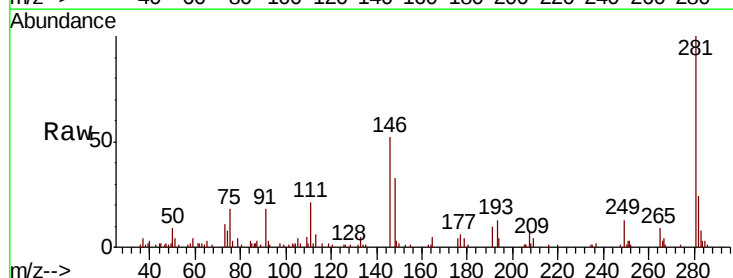
Instrument :
 MSVOA_L
 ClientSampled :

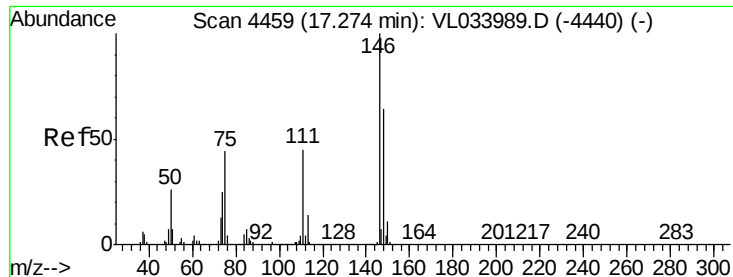
Tot Ion:105 Resp: 9499
 Ion Ratio Lower Upper
 105 100
 120 20.8 36.4 54.6#



#75
 1,3-Dichlorobenzene
 Concen: 0.064 ppbv
 RT: 17.13 min Scan# 4415
 Delta R.T. -0.00 min
 Lab File: VL034004.D
 Acq: 3 Jul 2019 3:47

Tgt Ion:146 Resp: 14195
 Ion Ratio Lower Upper
 146 100
 111 102.4 22.3 66.9#
 148 145.5 32.0 96.2#





#76

1,4-Dichlorobenzene

Concen: 0.055 ppbv

RT: 17.27 min Scan# 4459

Delta R.T. -0.00 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

Instrument :

MSVOA_L

ClientSampleId :

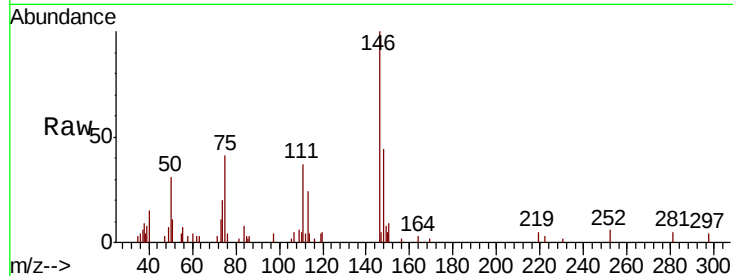
Tot Ion:146 Resp: 11509

Ion Ratio Lower Upper

146 100

111 74.4 21.9 65.5#

148 102.7 32.5 97.5#

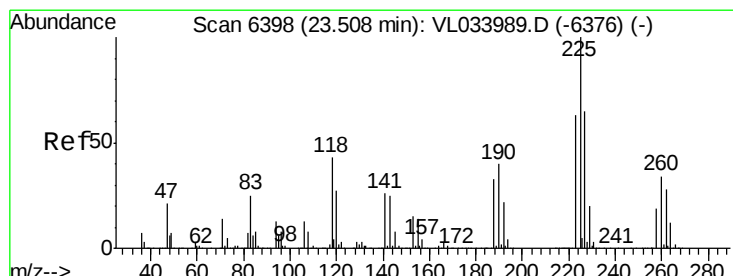
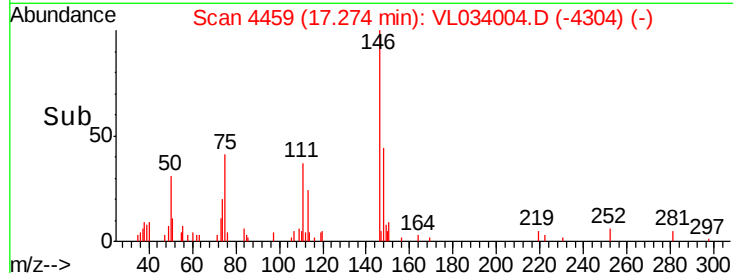
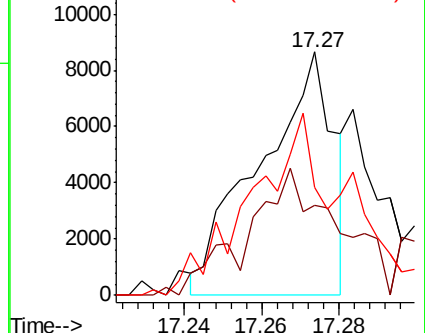


Abundance

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



#78

Hexachloro-1,3-Butadiene

Concen: 0.085 ppbv

RT: 23.51 min Scan# 6398

Delta R.T. -0.00 min

Lab File: VL034004.D

Acq: 3 Jul 2019 3:47

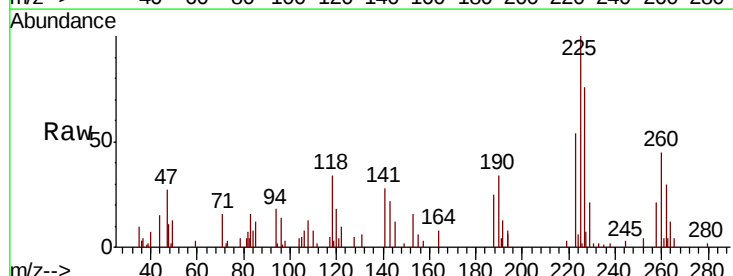
Tgt Ion:225 Resp: 14705

Ion Ratio Lower Upper

225 100

223 114.1 51.5 77.3#

227 123.3 52.1 78.1#

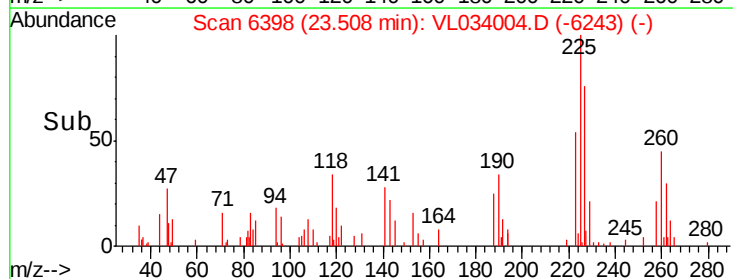
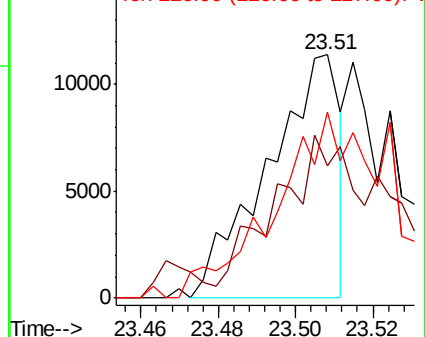


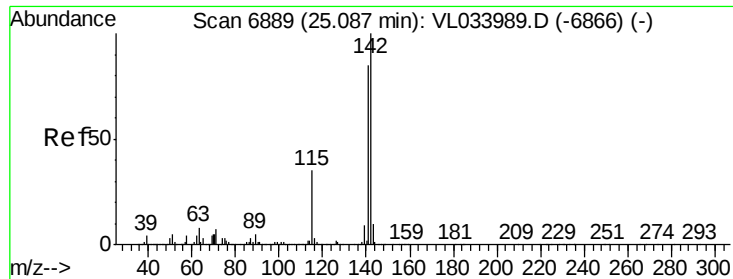
Abundance

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





#80

Naphthalene, 2-methyl-

Concen: 0.062 ppbv

RT: 25.09 min Scan# 6890

Delta R.T. 0.00 min

Lab File: VL034004.D

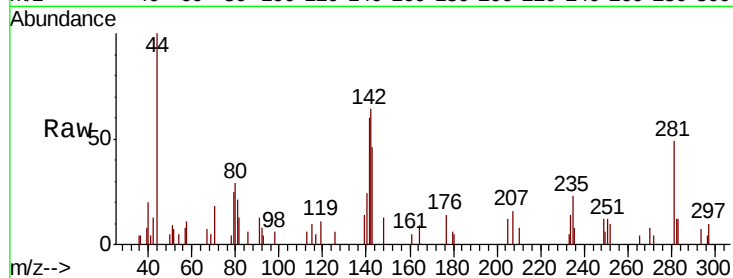
Acq: 3 Jul 2019 3:47

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:	142	Resp:	6607
Ion	Ratio	Lower	Upper
142	100		
141	71.2	68.2	102.2
115	43.4	29.9	44.9



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

