

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041904.D
 Acq On : 14 Jan 2025 22:21
 Operator : SY/MD
 Sample : Q1073-06
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

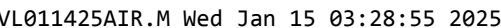
Quant Time: Jan 15 03:28:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

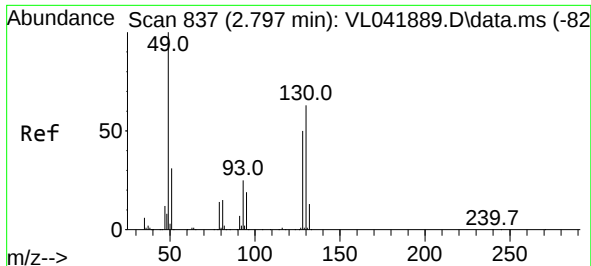
Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards							
1) Bromochloromethane		2.793	49	138247	10.000	ppbv	0.00
33) 1,4-Difluorobenzene		3.965	114	398753	10.000	ppbv	0.00
55) Chlorobenzene-d5		8.888	117	345260	10.000	ppbv	0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene		10.383	95	273151	10.045	ppbv	0.00
Spiked Amount		10.000	Range	65 - 135	Recovery	= 100.400%	
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane		1.502	85	6958	0.370	ppbv	92
3) Chlorodifluoromethane		1.470	51	60801	3.082	ppbv #	65
4) Chloromethane		1.534	50	3674	0.519	ppbv	100
9) Propene		1.890	41	4046	0.498	ppbv	99
10) Heptane		4.998	43	24373	1.122	ppbv #	33
11) Trichlorofluoromethane		1.881	101	5036	0.257	ppbv	93
13) Ethanol		1.725	45	60176	101.095	ppbv	91
15) Acetone		1.839	43	281485	16.952	ppbv	94
16) 1,3-Butadiene		1.606	39	1784	0.239	ppbv #	11
19) Isopropyl Alcohol		1.890	45	39461	4.008	ppbv #	1
20) Methylene Chloride		2.065	84	2919	0.445	ppbv	95
23) Vinyl Acetate		2.460	43	16837	2.046	ppbv #	91
25) Ethyl Acetate		2.832	43	71509	1.597	ppbv #	79
26) Hexane		2.832	57	104107	5.879	ppbv #	35
29) Chloroform		2.858	83	8588	0.307	ppbv #	76
30) Cyclohexane		3.862	84	6601	0.430	ppbv	91
34) 2-Butanone		2.560	43	921004	36.319	ppbv	100
35) Carbon Tetrachloride		3.768	117	690	0.028	ppbv #	59
36) Benzene		3.664	78	11748	0.321	ppbv #	92
39) 1,2-Dichloropropane		3.968	63	99004	7.717	ppbv #	22
51) 2-Hexanone		7.457	43	20588	0.774	ppbv #	100
52) Tetrachloroethene		8.221	164	318	0.025	ppbv #	66
53) Toluene		6.946	91	255572	6.415	ppbv	99
56) 1,1,1,2-Tetrachloroethane		8.950	131	33	0.002	ppbv #	1
80) Naphthalene,2-methyl-		14.102	142	22	0.001	ppbv #	7

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

Quant Time: Jan 15 03:28:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

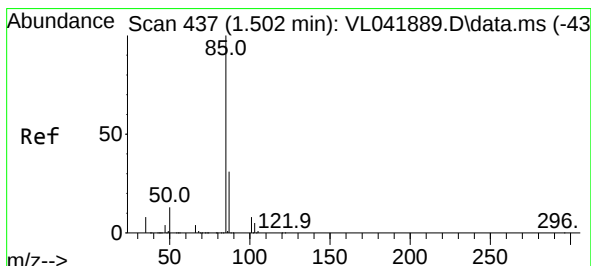
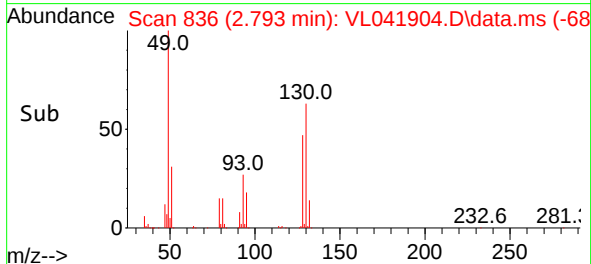
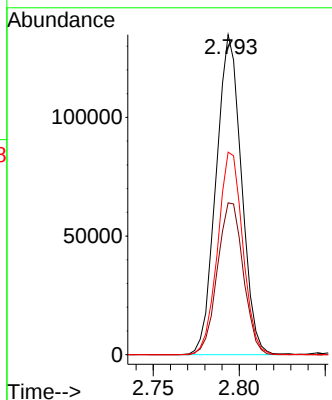
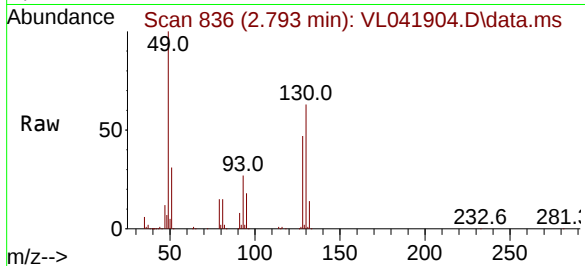




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 81
Delta R.T. -0.004 min
Lab File: VL041904.D
Acq: 14 Jan 2025 22:21

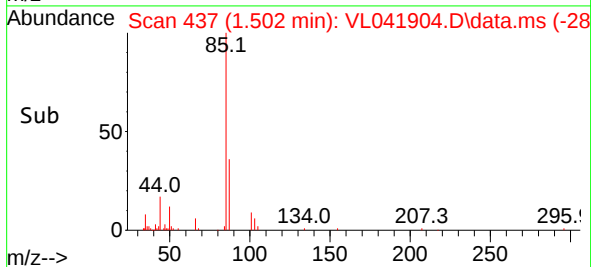
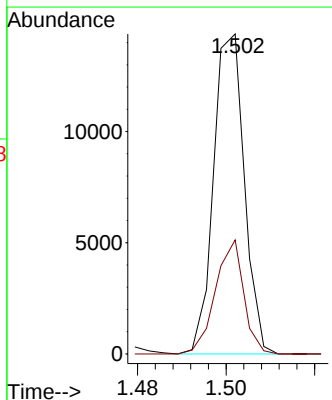
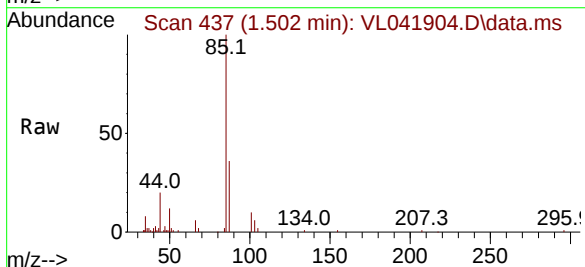
Instrument :
MSVOA_L
ClientSampleId :

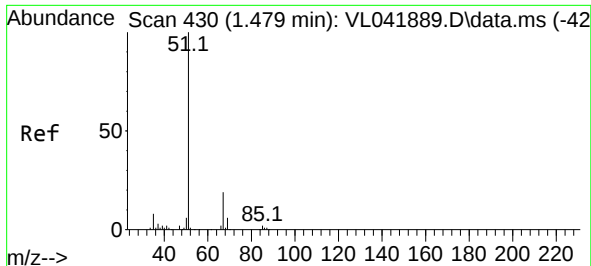
Tgt Ion: 49 Resp: 138247
Ion Ratio Lower Upper
49 100
128 48.4 24.3 73.0
130 62.6 31.1 93.2



#2
Dichlorodifluoromethane
Concen: 0.370 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.000 min
Lab File: VL041904.D
Acq: 14 Jan 2025 22:21

Tgt Ion: 85 Resp: 6958
Ion Ratio Lower Upper
85 100
87 35.6 24.9 37.3

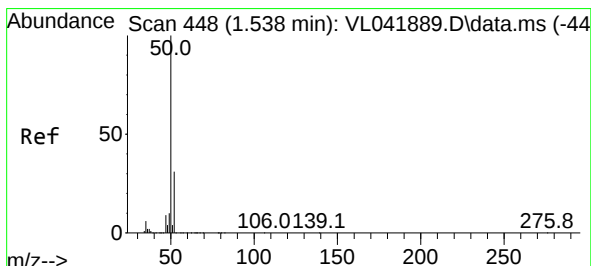
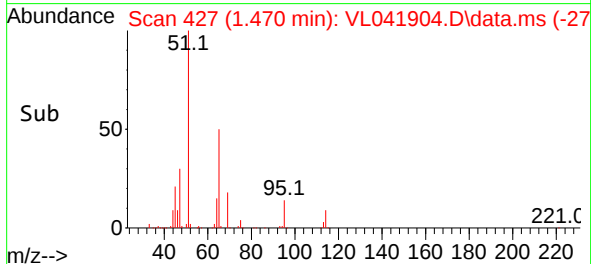
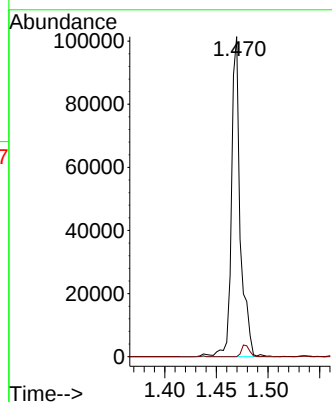
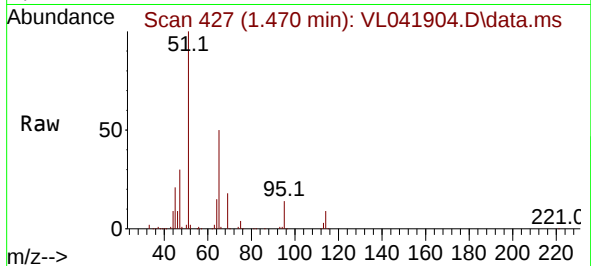




#3
Chlorodifluoromethane
Concen: 3.082 ppbv
RT: 1.470 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL041904.D
Acq: 14 Jan 2025 22:21

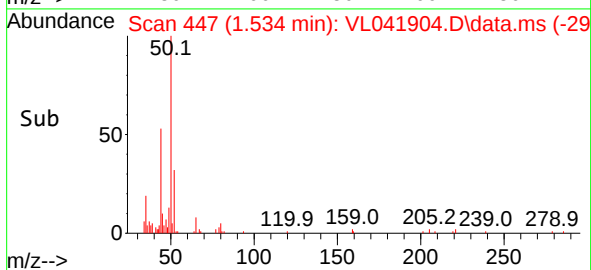
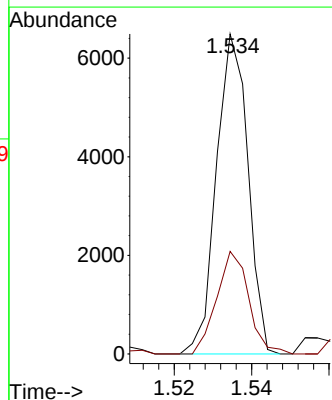
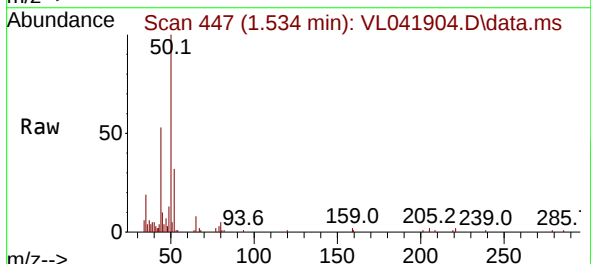
Instrument :
MSVOA_L
ClientSampleId :

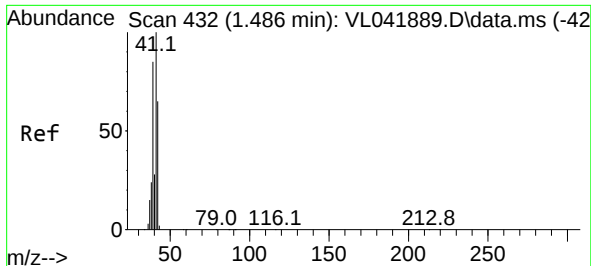
Tgt Ion: 51 Resp: 60801
Ion Ratio Lower Upper
51 100
67 3.2 15.0 22.4#



#4
Chloromethane
Concen: 0.519 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.003 min
Lab File: VL041904.D
Acq: 14 Jan 2025 22:21

Tgt Ion: 50 Resp: 3674
Ion Ratio Lower Upper
50 100
52 30.6 24.6 36.8

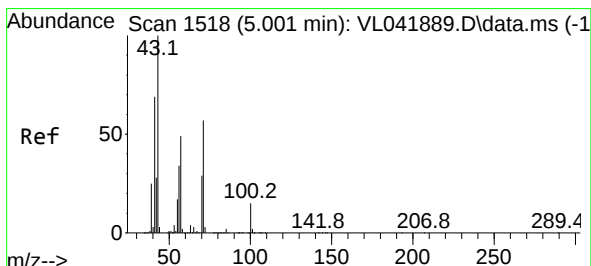
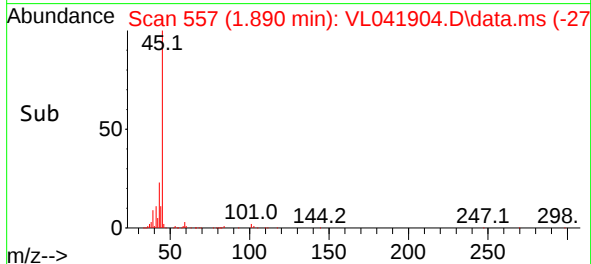
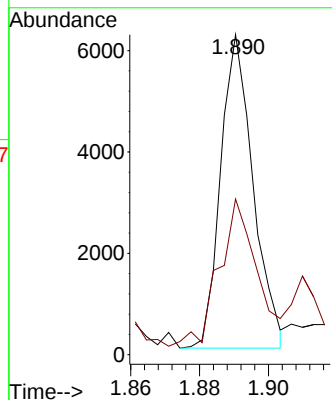
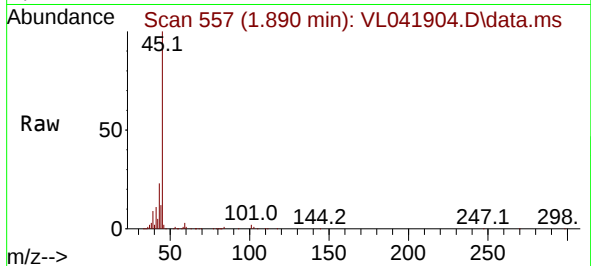




#9
Propene
Concen: 0.498 ppbv
RT: 1.890 min Scan# 51
Delta R.T. 0.405 min
Lab File: VL041904.D
Acq: 14 Jan 2025 22:21

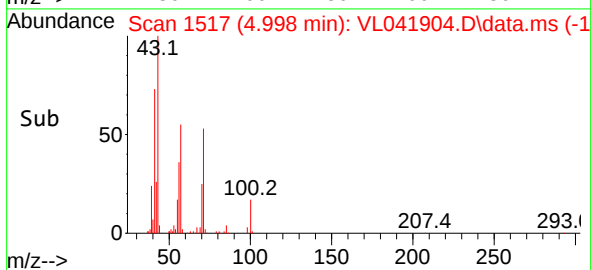
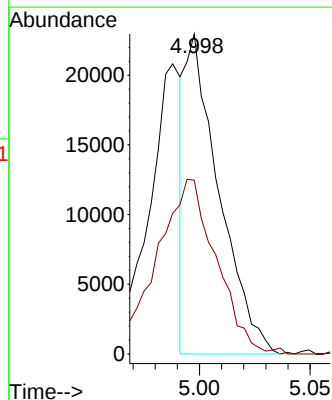
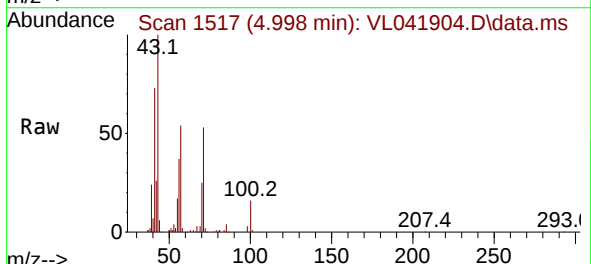
Instrument :
MSVOA_L
ClientSampleId :

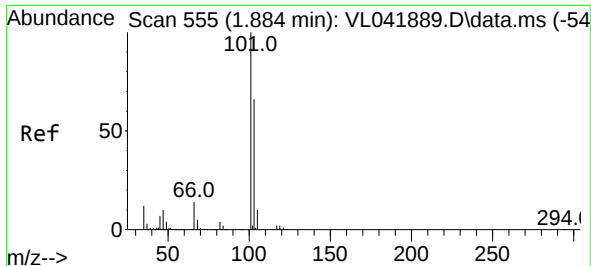
Tgt Ion: 41 Resp: 4046
Ion Ratio Lower Upper
41 100
42 64.1 52.0 78.0



#10
Heptane
Concen: 1.122 ppbv
RT: 4.998 min Scan# 1517
Delta R.T. -0.003 min
Lab File: VL041904.D
Acq: 14 Jan 2025 22:21

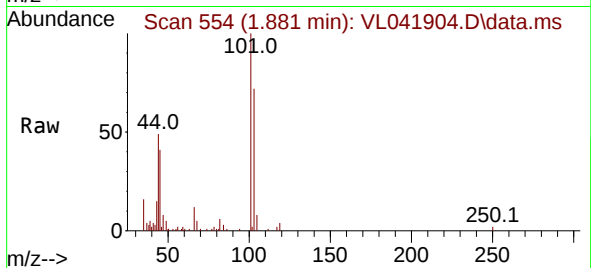
Tgt Ion: 43 Resp: 24373
Ion Ratio Lower Upper
43 100
57 98.0 41.0 61.4#



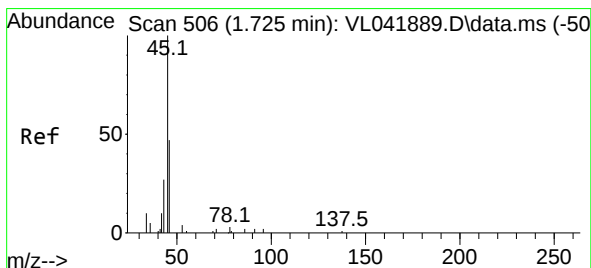
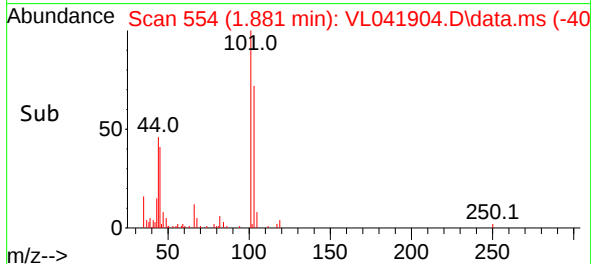
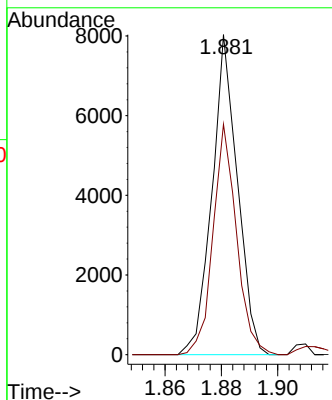


#11
 Trichlorofluoromethane
 Concen: 0.257 ppbv
 RT: 1.881 min Scan# 503
 Delta R.T. -0.003 min
 Lab File: VL041904.D
 Acq: 14 Jan 2025 22:21

Instrument :
 MSVOA_L
 ClientSampleId :

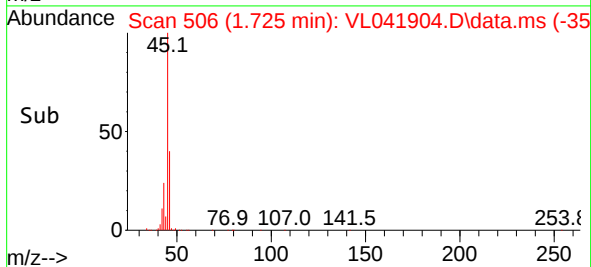
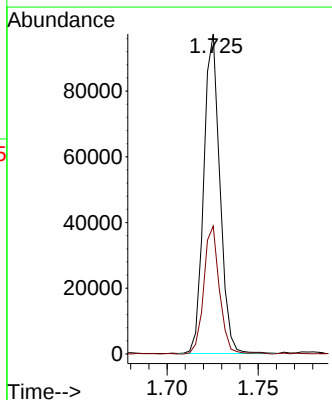
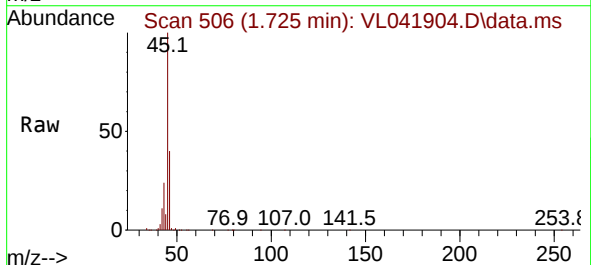


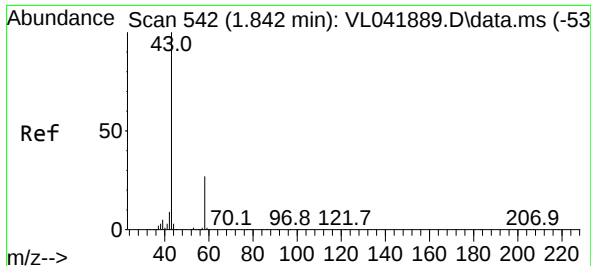
Tgt Ion:101 Resp: 5036
 Ion Ratio Lower Upper
 101 100
 103 72.0 53.1 79.7



#13
 Ethanol
 Concen: 101.095 ppbv
 RT: 1.725 min Scan# 506
 Delta R.T. 0.000 min
 Lab File: VL041904.D
 Acq: 14 Jan 2025 22:21

Tgt Ion: 45 Resp: 60176
 Ion Ratio Lower Upper
 45 100
 46 39.4 18.1 72.5

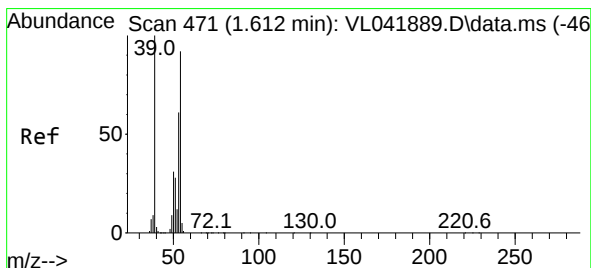
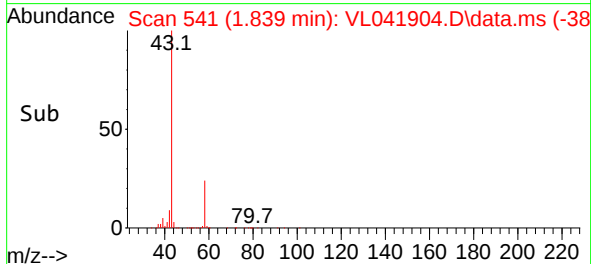
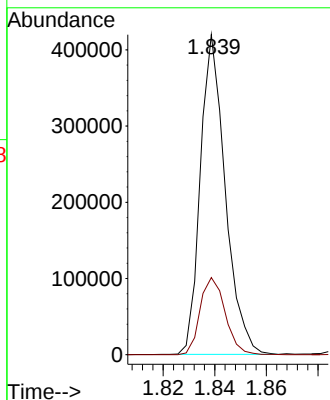
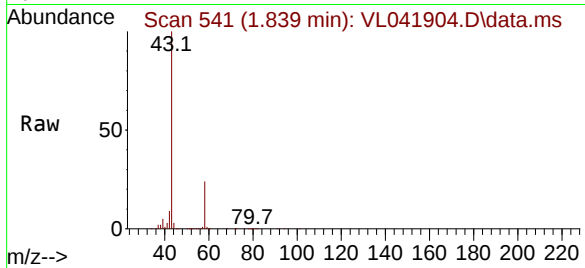




#15
Acetone
Concen: 16.952 ppbv
RT: 1.839 min Scan# 54
Delta R.T. -0.003 min
Lab File: VL041904.D
Acq: 14 Jan 2025 22:21

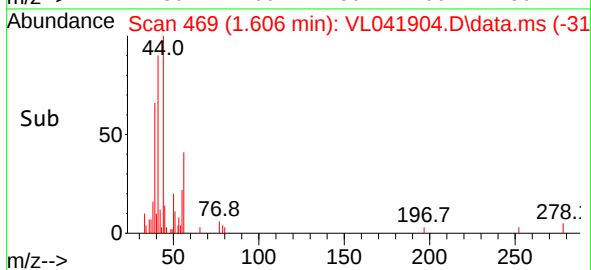
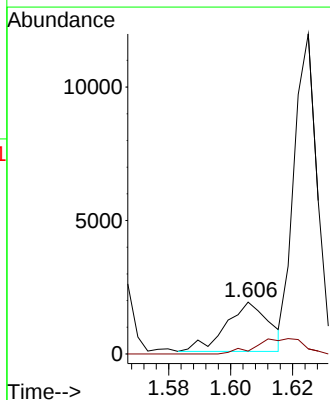
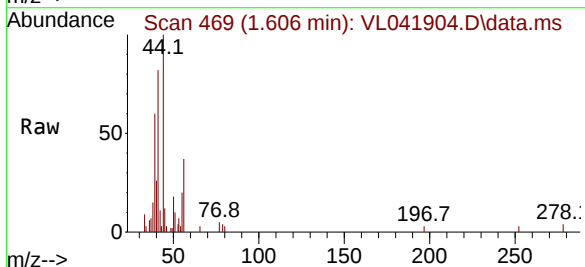
Instrument :
MSVOA_L
ClientSampleId :

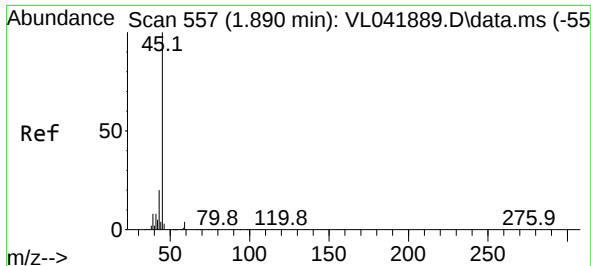
Tgt Ion: 43 Resp: 281485
Ion Ratio Lower Upper
43 100
58 24.3 21.9 32.9



#16
1,3-Butadiene
Concen: 0.239 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.006 min
Lab File: VL041904.D
Acq: 14 Jan 2025 22:21

Tgt Ion: 39 Resp: 1784
Ion Ratio Lower Upper
39 100
54 0.0 61.6 92.4#

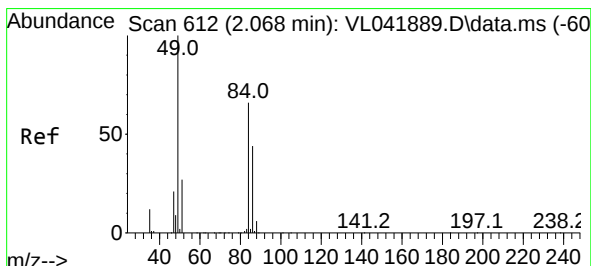
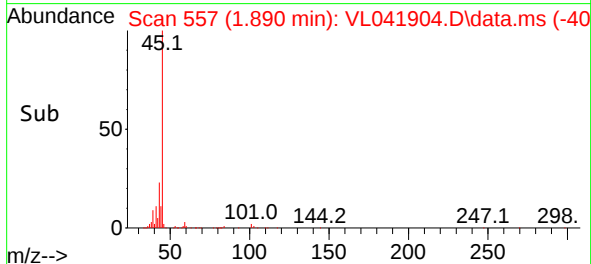
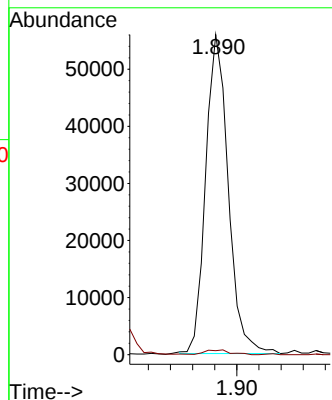
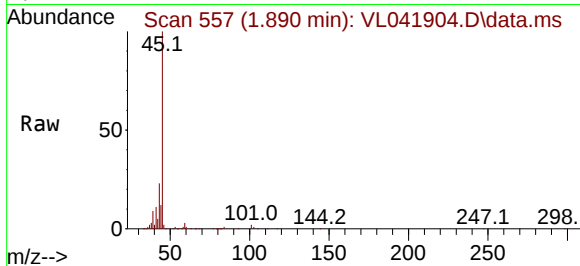




#19
Isopropyl Alcohol
Concen: 4.008 ppbv
RT: 1.890 min Scan# 51
Delta R.T. 0.000 min
Lab File: VL041904.D
Acq: 14 Jan 2025 22:21

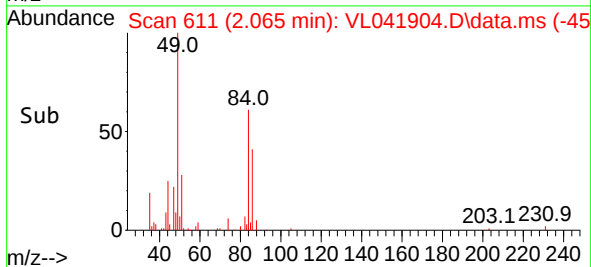
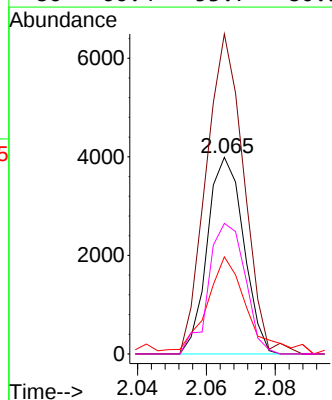
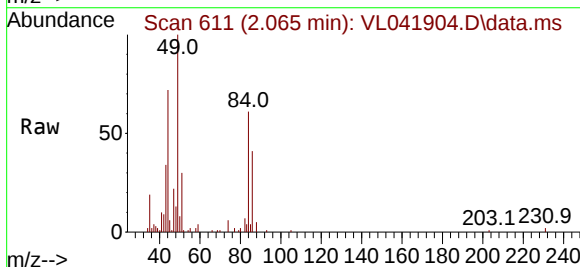
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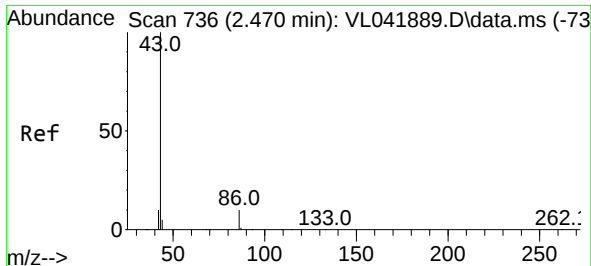
Tgt Ion: 45 Resp: 39461
Ion Ratio Lower Upper
45 100
58 173.4 35.0 52.6#



#20
Methylene Chloride
Concen: 0.445 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.003 min
Lab File: VL041904.D
Acq: 14 Jan 2025 22:21

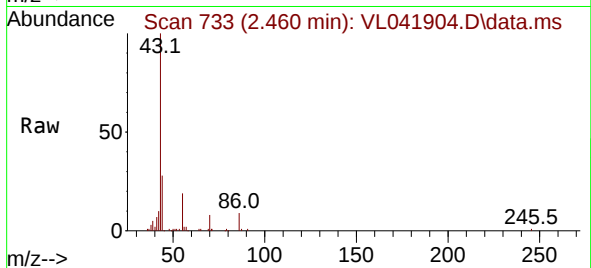
Tgt Ion: 84 Resp: 2919
Ion Ratio Lower Upper
84 100
49 162.8 123.1 184.7
51 47.1 35.8 53.8
86 66.4 53.7 80.5



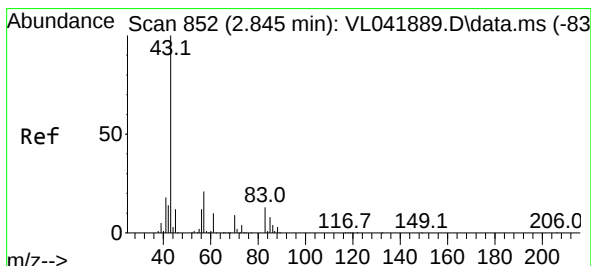
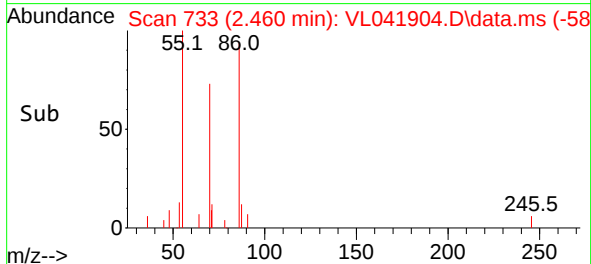
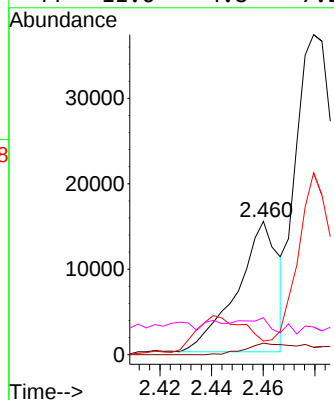


#23
 Vinyl Acetate
 Concen: 2.046 ppbv
 RT: 2.460 min Scan# 71
 Delta R.T. -0.010 min
 Lab File: VL041904.D
 Acq: 14 Jan 2025 22:21

Instrument :
 MSVOA_L
 ClientSampleId :

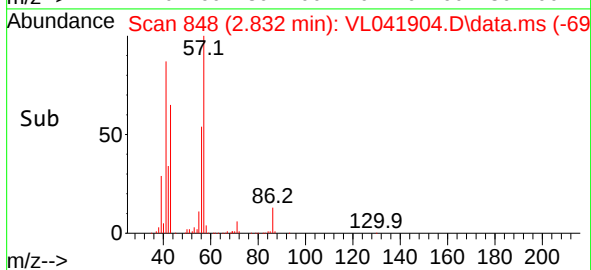
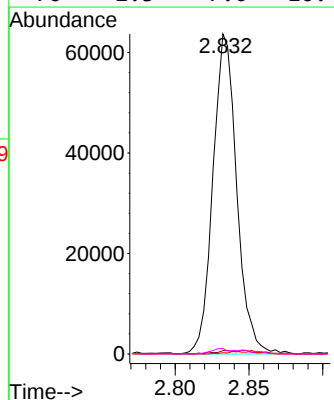
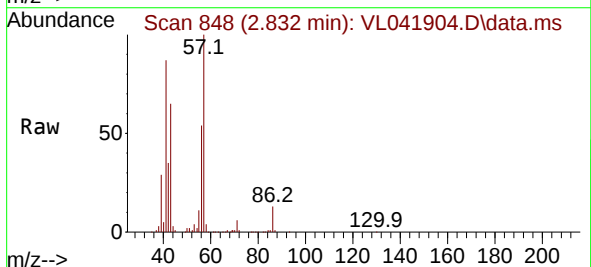


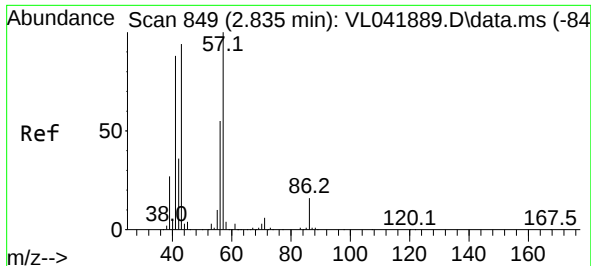
Tgt Ion:	43	Resp:	16837
Ion	Ratio	Lower	Upper
43	100		
86	8.9	6.2	9.4
42	6.8	8.5	12.7#
44	11.6	4.8	7.2#



#25
 Ethyl Acetate
 Concen: 1.597 ppbv
 RT: 2.832 min Scan# 848
 Delta R.T. -0.013 min
 Lab File: VL041904.D
 Acq: 14 Jan 2025 22:21

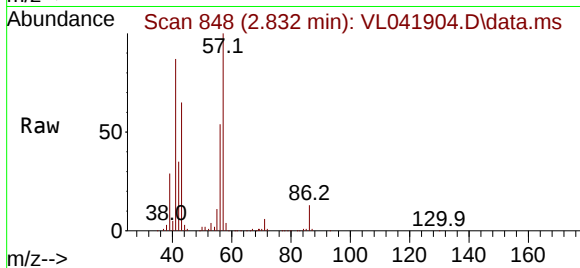
Tgt Ion:	43	Resp:	71509
Ion	Ratio	Lower	Upper
43	100		
45	1.9	8.2	12.2#
61	1.1	7.4	11.0#
70	2.3	7.0	10.4#



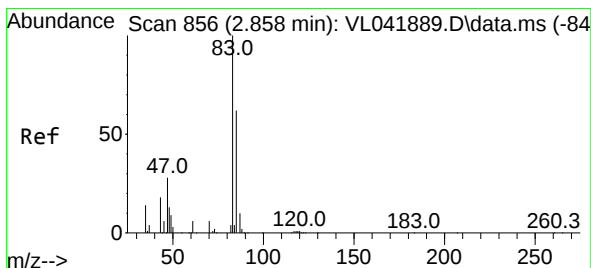
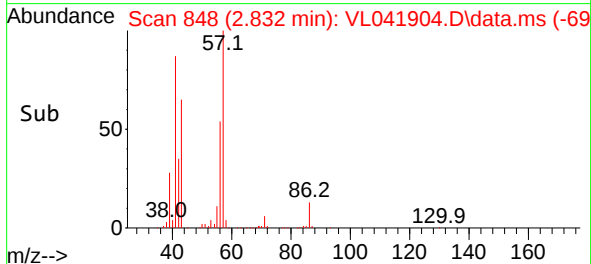
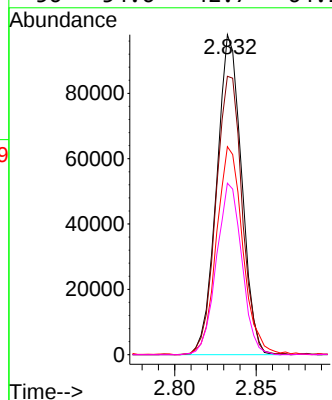


#26
Hexane
Concen: 5.879 ppbv
RT: 2.832 min Scan# 849
Delta R.T. -0.003 min
Lab File: VL041904.D
Acq: 14 Jan 2025 22:21

Instrument :
MSVOA_L
ClientSampleId :

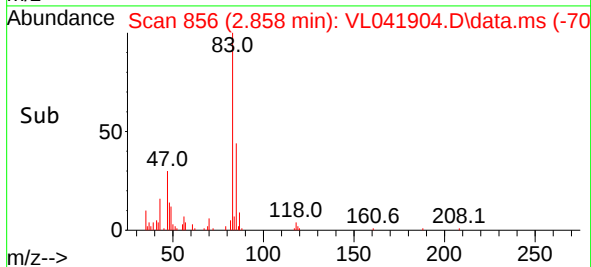
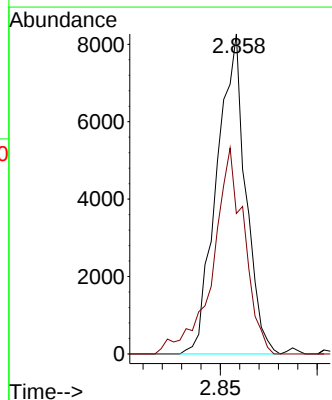
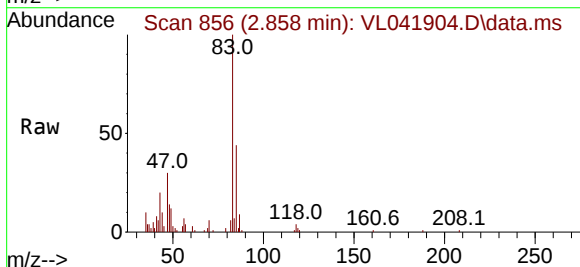


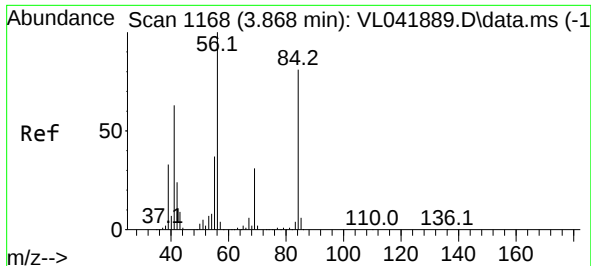
Tgt Ion: 57 Resp: 104107
Ion Ratio Lower Upper
57 100
41 91.3 73.8 110.8
43 68.9 197.3 295.9#
56 54.6 42.7 64.1



#29
Chloroform
Concen: 0.307 ppbv
RT: 2.858 min Scan# 856
Delta R.T. 0.000 min
Lab File: VL041904.D
Acq: 14 Jan 2025 22:21

Tgt Ion: 83 Resp: 8588
Ion Ratio Lower Upper
83 100
85 43.9 50.1 75.1#

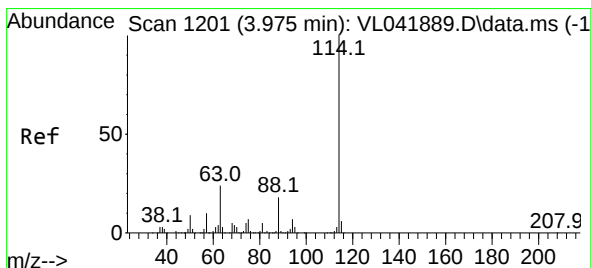
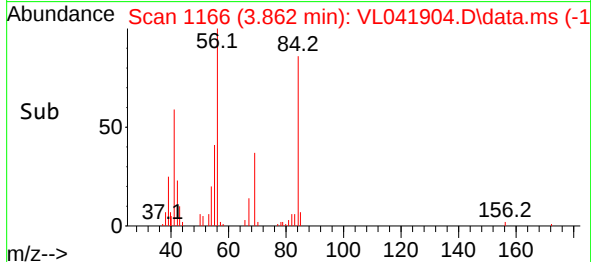
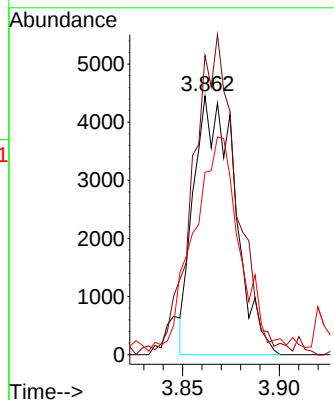
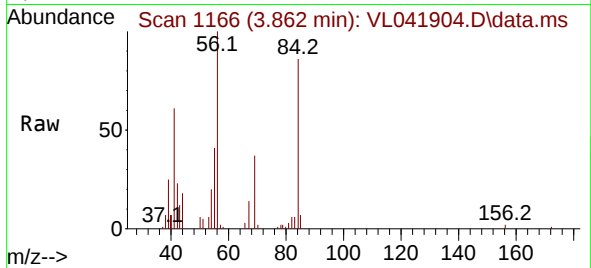




#30
Cyclohexane
Concen: 0.430 ppbv
RT: 3.862 min Scan# 1166
Delta R.T. -0.006 min
Lab File: VL041904.D
Acq: 14 Jan 2025 22:21

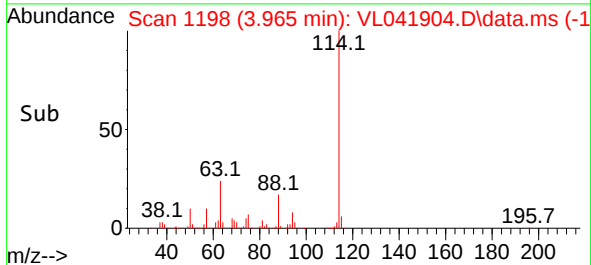
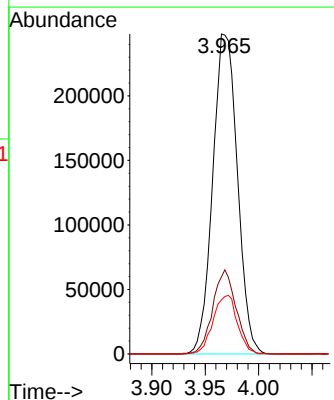
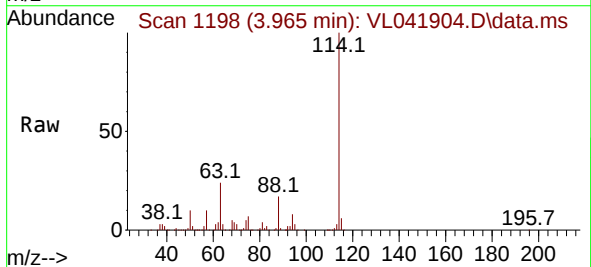
Instrument :
MSVOA_L
ClientSampleId :

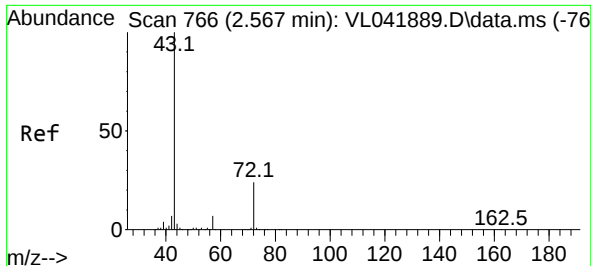
Tgt Ion: 84 Resp: 6601
Ion Ratio Lower Upper
84 100
56 133.3 99.3 148.9
41 89.7 64.3 96.5



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. -0.010 min
Lab File: VL041904.D
Acq: 14 Jan 2025 22:21

Tgt Ion: 114 Resp: 398753
Ion Ratio Lower Upper
114 100
63 24.9 19.8 29.6
88 18.0 14.4 21.6

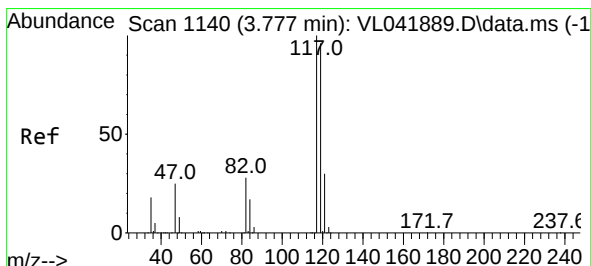
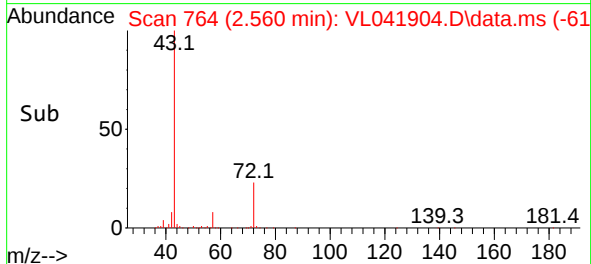
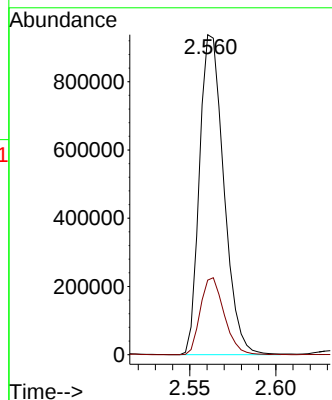
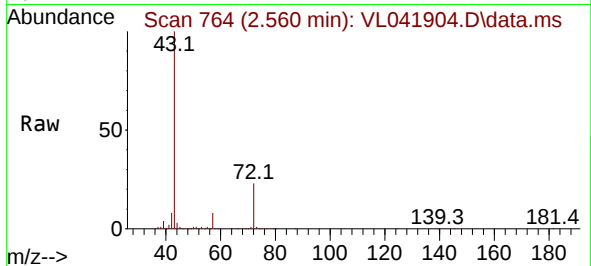




#34
2-Butanone
Concen: 36.319 ppbv
RT: 2.560 min Scan# 70
Delta R.T. -0.006 min
Lab File: VL041904.D
Acq: 14 Jan 2025 22:21

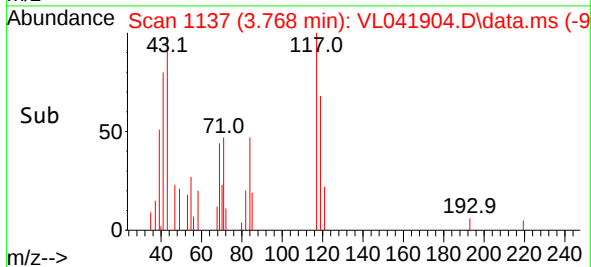
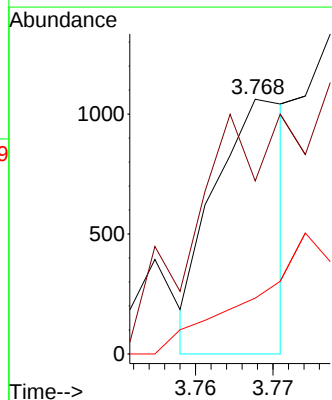
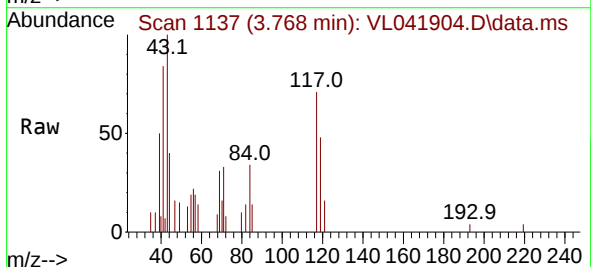
Instrument :
MSVOA_L
ClientSampleId :

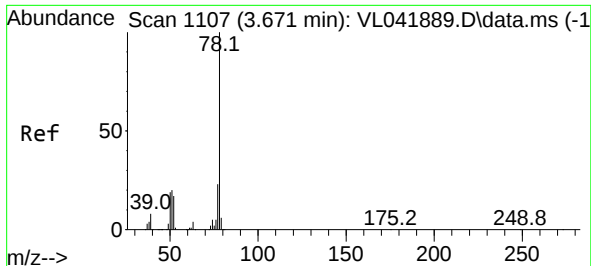
Tgt Ion: 43 Resp: 921004
Ion Ratio Lower Upper
43 100
72 23.5 18.6 28.0



#35
Carbon Tetrachloride
Concen: 0.028 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. -0.010 min
Lab File: VL041904.D
Acq: 14 Jan 2025 22:21

Tgt Ion: 117 Resp: 690
Ion Ratio Lower Upper
117 100
119 52.5 76.9 115.3#
121 15.1 23.8 35.6#

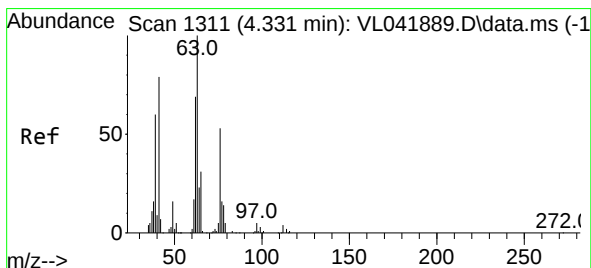
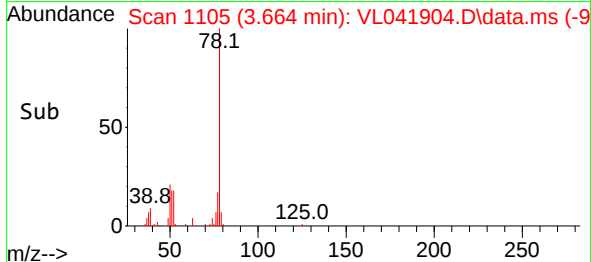
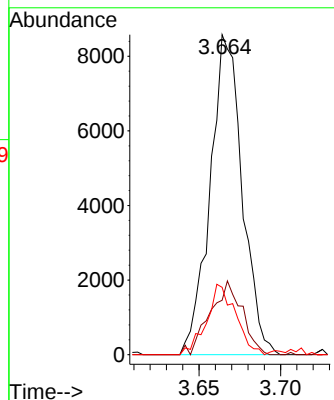
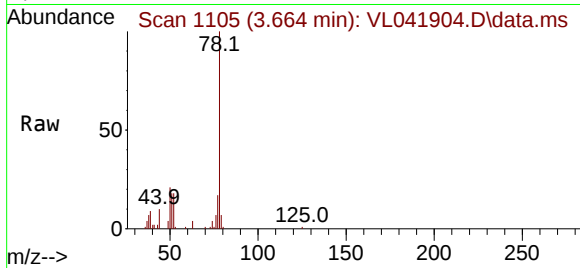




#36
Benzene
Concen: 0.321 ppbv
RT: 3.664 min Scan# 1107
Delta R.T. -0.006 min
Lab File: VL041904.D
Acq: 14 Jan 2025 22:21

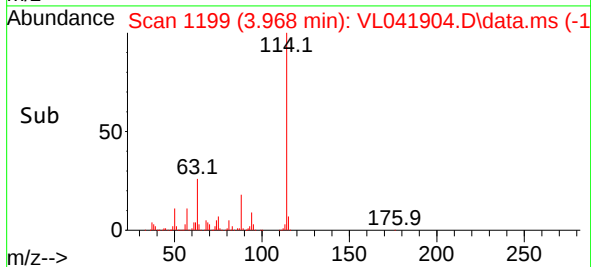
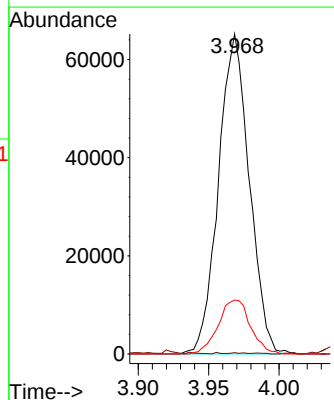
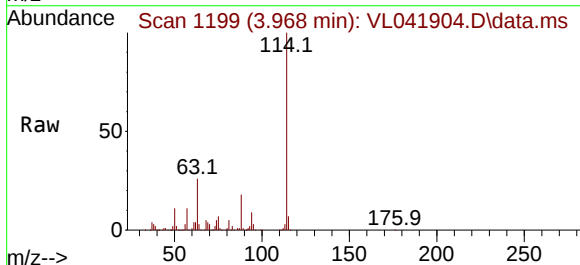
Instrument :
MSVOA_L
ClientSampleId :

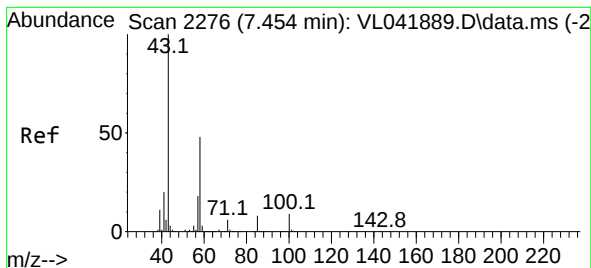
Tgt Ion: 78 Resp: 11748
Ion Ratio Lower Upper
78 100
77 17.0 18.1 27.1#
50 21.0 15.2 22.8



#39
1,2-Dichloropropane
Concen: 7.717 ppbv
RT: 3.968 min Scan# 1199
Delta R.T. -0.362 min
Lab File: VL041904.D
Acq: 14 Jan 2025 22:21

Tgt Ion: 63 Resp: 99004
Ion Ratio Lower Upper
63 100
41 0.4 63.7 95.5#
62 16.9 55.4 83.2#





#51

2-Hexanone

Concen: 0.774 ppbv

RT: 7.457 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL041904.D

Acq: 14 Jan 2025 22:21

Instrument :

MSVOA_L

ClientSampleId :

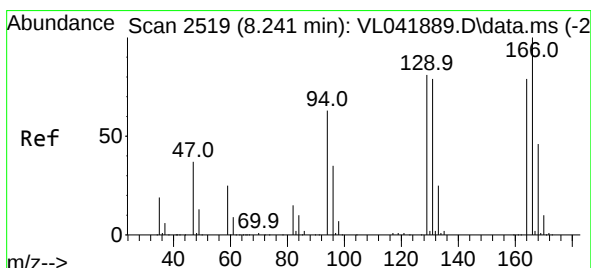
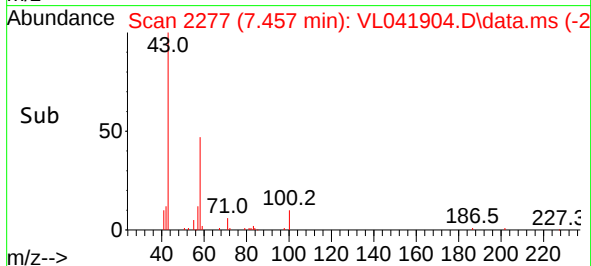
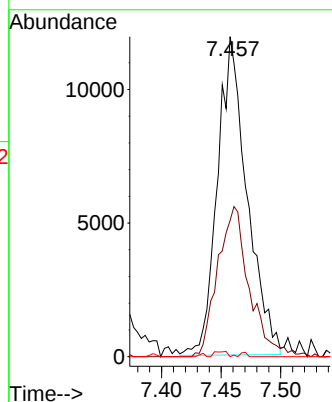
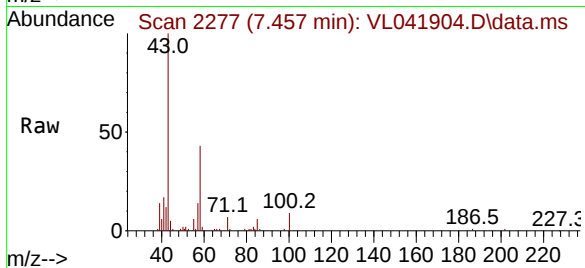
Tgt Ion: 43 Resp: 20588

Ion Ratio Lower Upper

43 100

58 50.6 40.4 60.6

98 1.2 0.2 0.2#



#52

Tetrachloroethene

Concen: 0.025 ppbv

RT: 8.221 min Scan# 2513

Delta R.T. -0.019 min

Lab File: VL041904.D

Acq: 14 Jan 2025 22:21

Tgt Ion: 164 Resp: 318

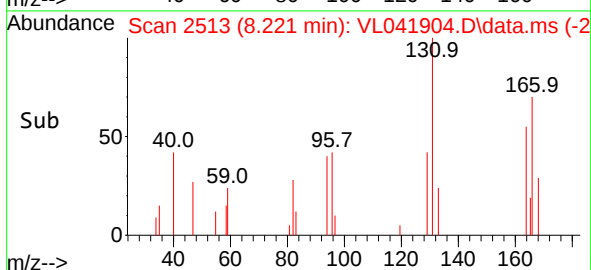
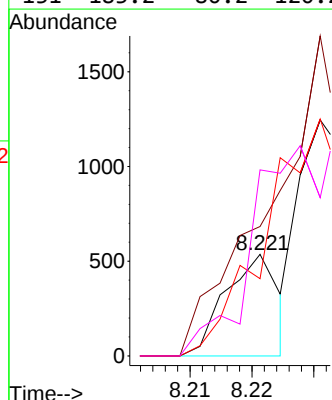
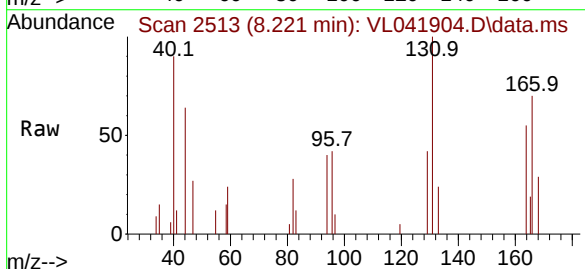
Ion Ratio Lower Upper

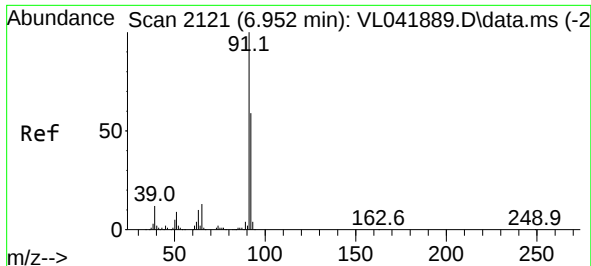
164 100

166 127.4 100.8 151.2

129 76.1 82.0 123.0#

131 183.2 80.2 120.2#

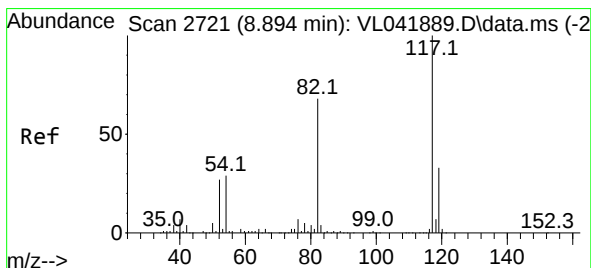
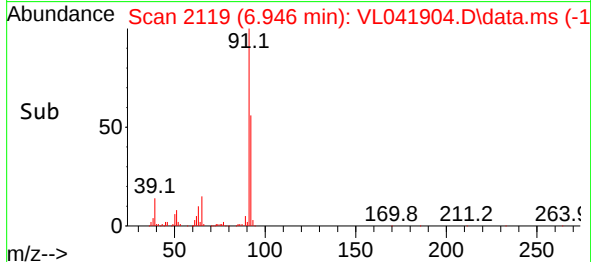
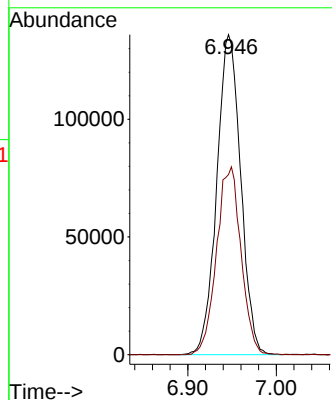
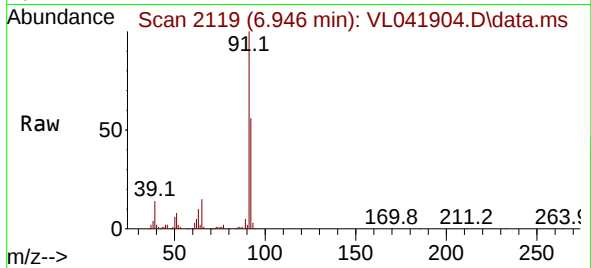




#53
Toluene
Concen: 6.415 ppbv
RT: 6.946 min Scan# 2121
Delta R.T. -0.006 min
Lab File: VL041904.D
Acq: 14 Jan 2025 22:21

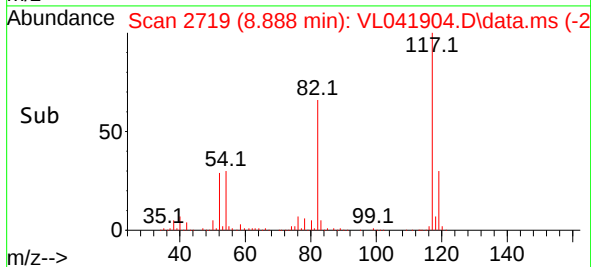
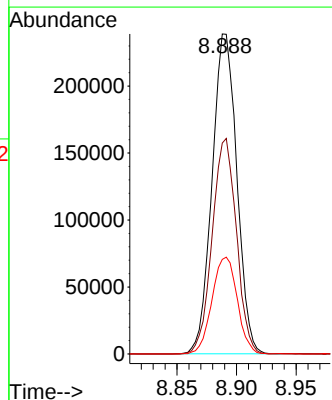
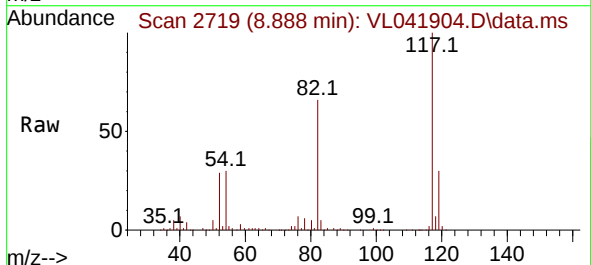
Instrument :
MSVOA_L
ClientSampleId :

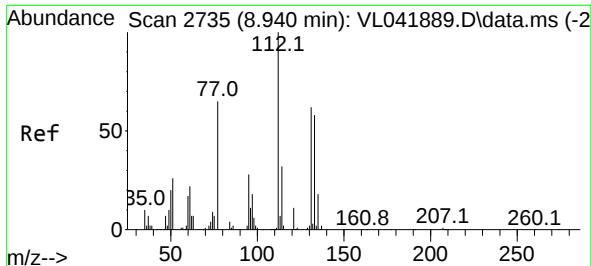
Tgt Ion: 91 Resp: 255572
Ion Ratio Lower Upper
91 100
92 60.0 47.4 71.0



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. -0.006 min
Lab File: VL041904.D
Acq: 14 Jan 2025 22:21

Tgt Ion: 117 Resp: 345260
Ion Ratio Lower Upper
117 100
82 65.9 54.2 81.4
119 30.9 25.0 37.6

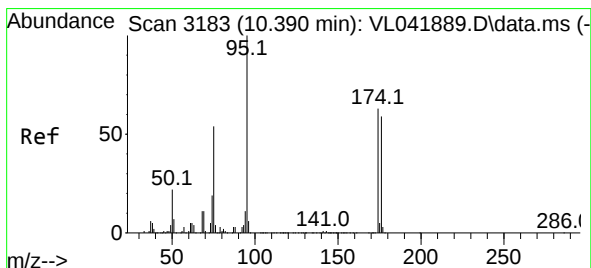
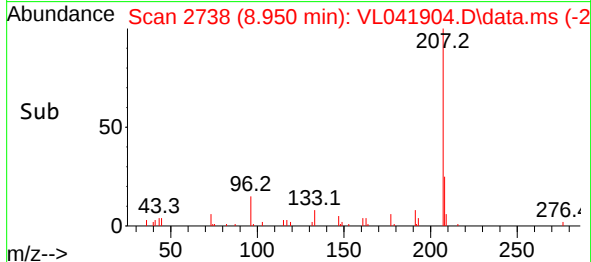
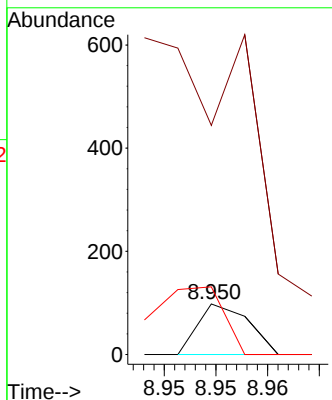
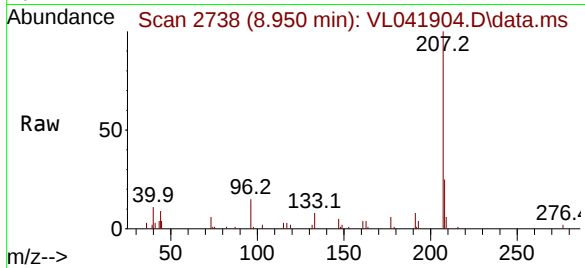




#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.002 ppbv
 RT: 8.950 min Scan# 21
 Delta R.T. 0.010 min
 Lab File: VL041904.D
 Acq: 14 Jan 2025 22:21

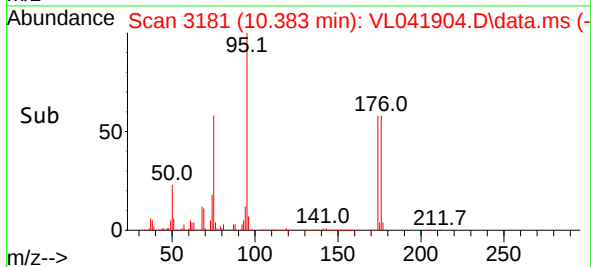
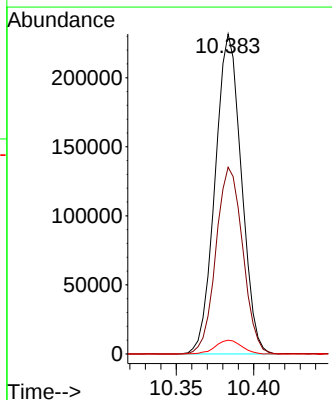
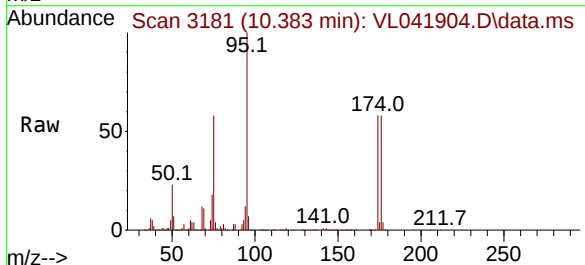
Instrument :
 MSVOA_L
 ClientSampleId :

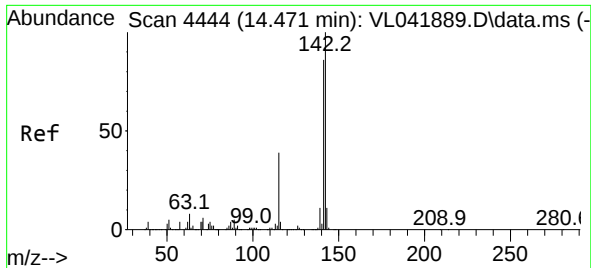
Tgt Ion:131 Resp: 33
 Ion Ratio Lower Upper
 131 100
 133 2569.7 76.0 114.0#
 119 323003.0 49.7 74.5#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.045 ppbv
 RT: 10.383 min Scan# 3181
 Delta R.T. -0.006 min
 Lab File: VL041904.D
 Acq: 14 Jan 2025 22:21

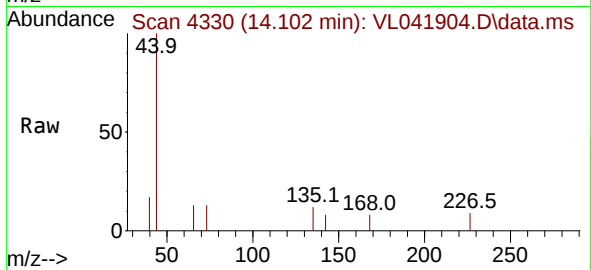
Tgt Ion: 95 Resp: 273151
 Ion Ratio Lower Upper
 95 100
 174 59.6 49.0 73.4
 175 4.3 3.8 5.8





#80
 Naphthalene, 2-methyl-
 Concen: 0.001 ppbv
 RT: 14.102 min Scan# 41
 Delta R.T. -0.369 min
 Lab File: VL041904.D
 Acq: 14 Jan 2025 22:21

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion	Ratio	Lower	Upper
142	100		
141	181.8	68.1	102.1#
115	0.0	31.7	47.5#

