

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102921\
 Data File : VN069297.D
 Acq On : 29 Oct 2021 13:30
 Operator : JC/MD
 Sample : M4338-08
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 30 05:40:56 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102821W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 28 16:09:15 2021
 Response via : Initial Calibration

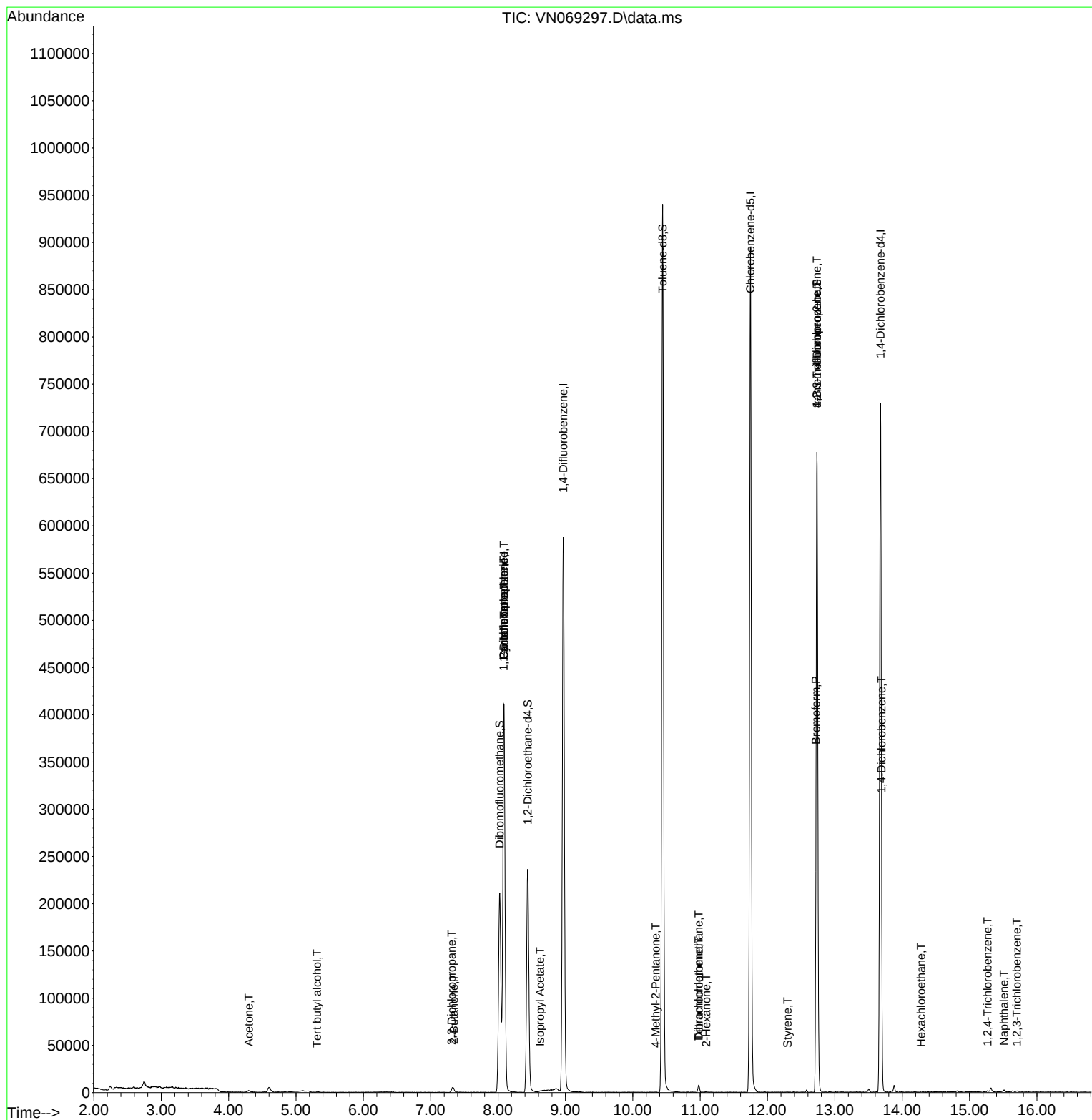
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.088	168	302883	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	534518	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.747	117	525311	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	196305	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	205524	47.007	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	94.020%
35) Dibromofluoromethane	8.024	113	155353	46.624	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	93.240%
50) Toluene-d8	10.443	98	670535	50.332	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	100.660%
62) 4-Bromofluorobenzene	12.733	95	244583	48.652	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	97.300%
Target Compounds						
					Qvalue	
3) Chloromethane	2.306	50	456	Below Cal	#	42
11) Tert butyl alcohol	5.313	59	160	13.585	ug/l #	72
16) Acetone	4.299	43	3151	1.692	ug/l	95
25) 2-Butanone	7.343	43	24	1.642	ug/l #	48
26) 2,2-Dichloropropane	7.311	77	25	0.842	ug/l #	53
31) Cyclohexane	8.086	56	7155	1.223	ug/l #	9
36) 1,1-Dichloropropene	8.083	75	25150	5.458	ug/l #	50
38) Carbon Tetrachloride	8.086	117	31975	6.987	ug/l #	15
43) Isopropyl Acetate	8.625	43	896	0.556	ug/l #	55
51) 4-Methyl-2-Pentanone	10.341	43	486	6.482	ug/l #	36
59) 2-Hexanone	11.089	43	776	8.165	ug/l #	59
60) Dibromochloromethane	10.980	129	1786	2.388	ug/l #	10
64) Tetrachloroethene	10.980	164	1790	0.533	ug/l #	88
70) Styrene	12.299	104	105	1.464	ug/l #	24
71) Bromoform	12.720	173	193	2.929	ug/l #	29
76) 1,2,3-Trichloropropane	12.733	75	130529	25.282	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.733	75	130529	72.363	ug/l #	12
88) 1,4-Dichlorobenzene	13.694	146	1587	0.315	ug/l #	1
90) Hexachloroethane	14.278	117	739	2.303	ug/l #	12
93) 1,2,4-Trichlorobenzene	15.268	180	421	2.613	ug/l	82
95) Naphthalene	15.512	128	2510	3.547	ug/l #	83
96) 1,2,3-Trichlorobenzene	15.702	180	491	2.358	ug/l #	84

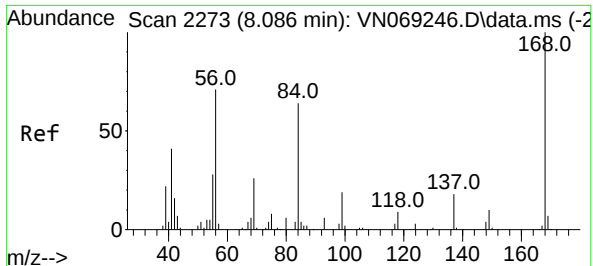
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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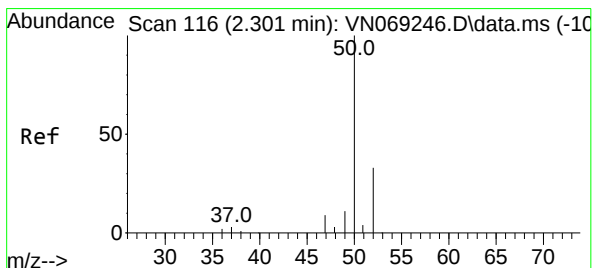
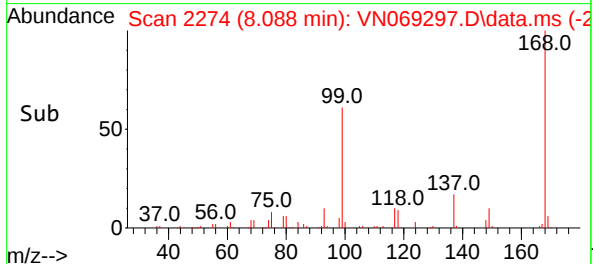
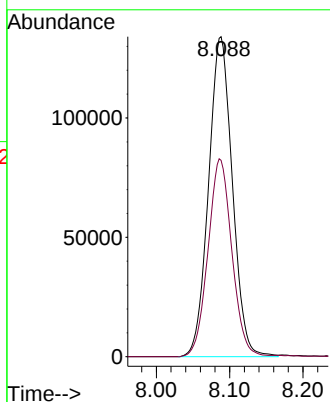
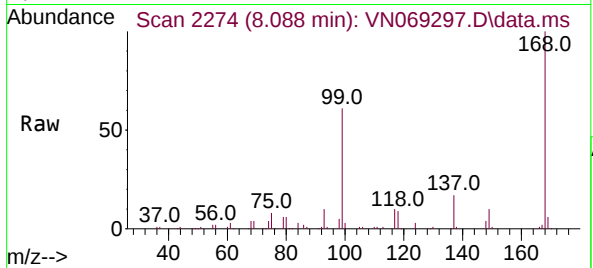




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 21
Delta R.T. 0.002 min
Lab File: VN069297.D
Acq: 29 Oct 2021 13:30

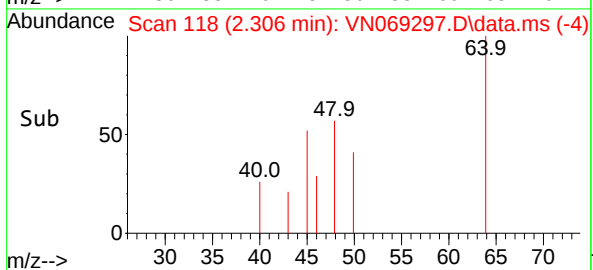
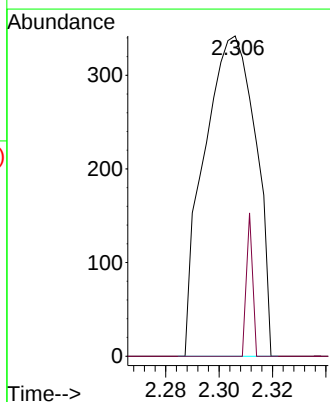
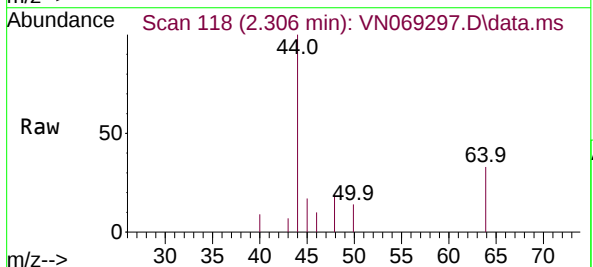
Instrument :
MSVOA_N
ClientSampleId :

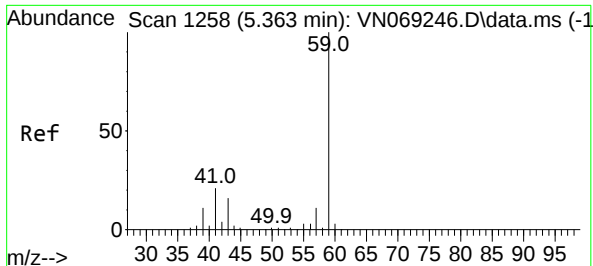
Tgt Ion:168 Resp: 302883
Ion Ratio Lower Upper
168 100
99 61.4 48.9 73.3



#3
Chloromethane
Concen: Below Cal
RT: 2.306 min Scan# 118
Delta R.T. 0.005 min
Lab File: VN069297.D
Acq: 29 Oct 2021 13:30

Tgt Ion: 50 Resp: 456
Ion Ratio Lower Upper
50 100
52 0.0 26.3 39.5#





#11

Tert butyl alcohol

Concen: 13.585 ug/l

RT: 5.313 min Scan# 11

Delta R.T. -0.051 min

Lab File: VN069297.D

Acq: 29 Oct 2021 13:30

Instrument :

MSVOA_N

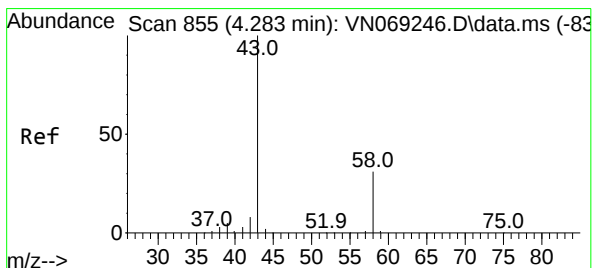
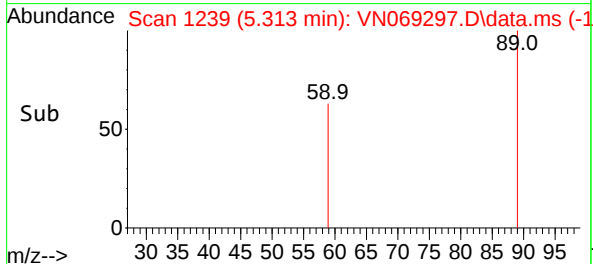
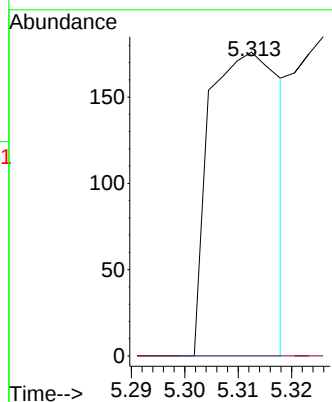
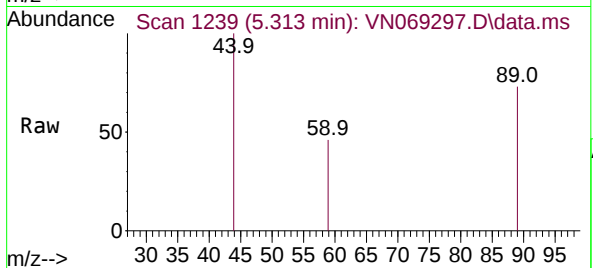
ClientSampleId :

Tgt Ion: 59 Resp: 160

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



#16

Acetone

Concen: 1.692 ug/l

RT: 4.299 min Scan# 861

Delta R.T. 0.016 min

Lab File: VN069297.D

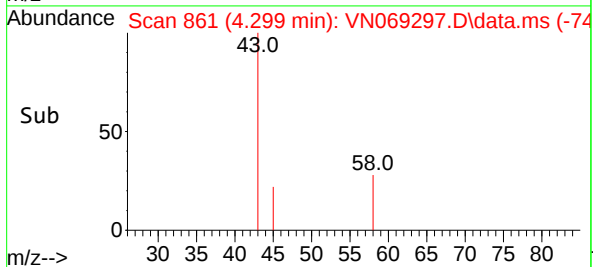
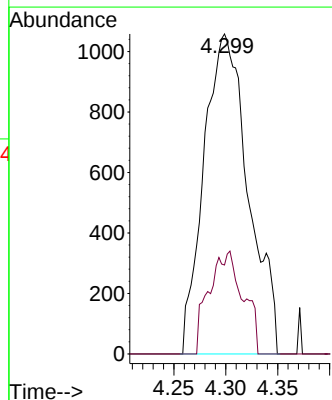
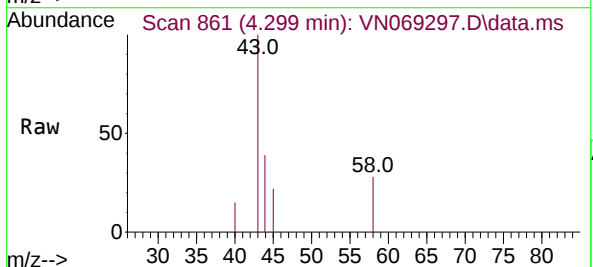
Acq: 29 Oct 2021 13:30

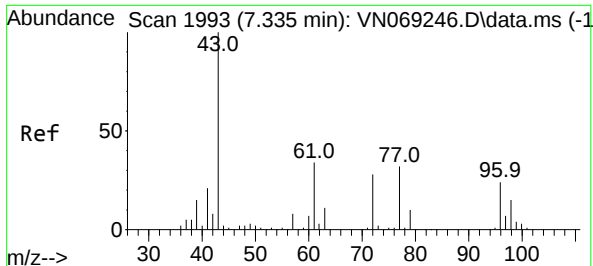
Tgt Ion: 43 Resp: 3151

Ion Ratio Lower Upper

43 100

58 27.8 24.5 36.7





#25

2-Butanone

Concen: 1.642 ug/l

RT: 7.343 min Scan# 19

Delta R.T. 0.008 min

Lab File: VN069297.D

Acq: 29 Oct 2021 13:30

Instrument :

MSVOA_N

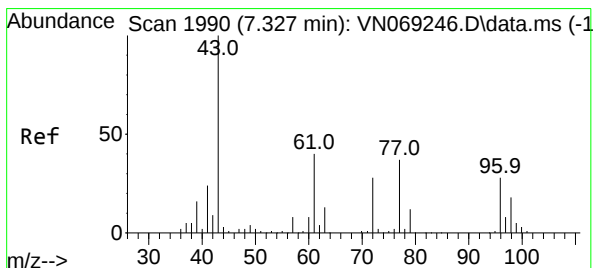
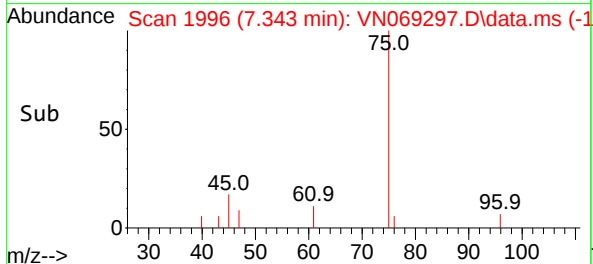
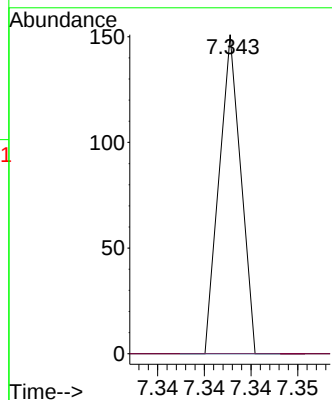
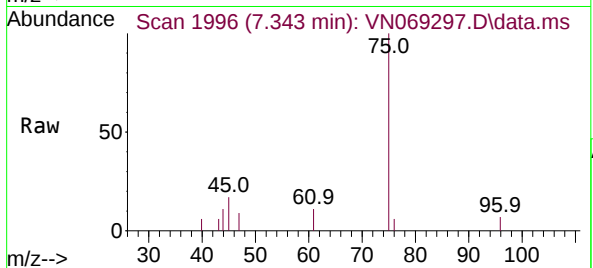
ClientSampleId :

Tgt Ion: 43 Resp: 24

Ion Ratio Lower Upper

43 100

72 0.0 21.2 31.8#



#26

2,2-Dichloropropane

Concen: 0.842 ug/l

RT: 7.311 min Scan# 1984

Delta R.T. -0.016 min

Lab File: VN069297.D

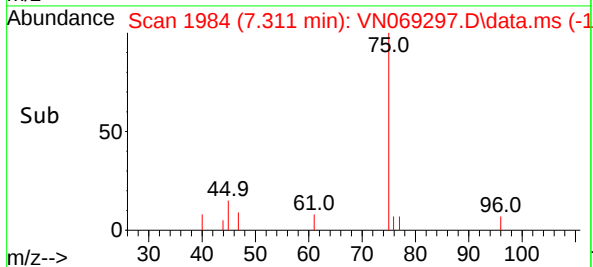
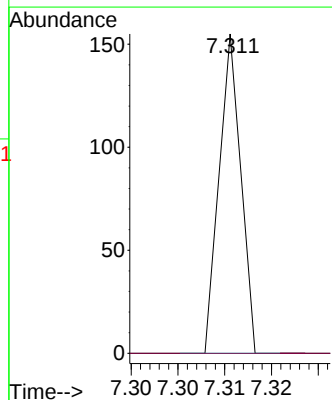
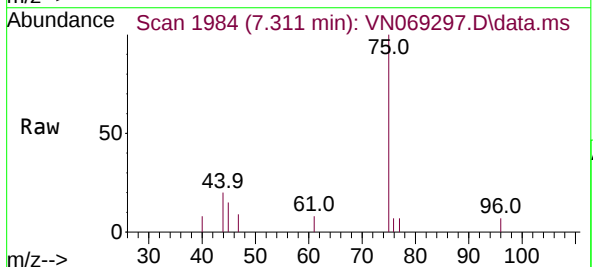
Acq: 29 Oct 2021 13:30

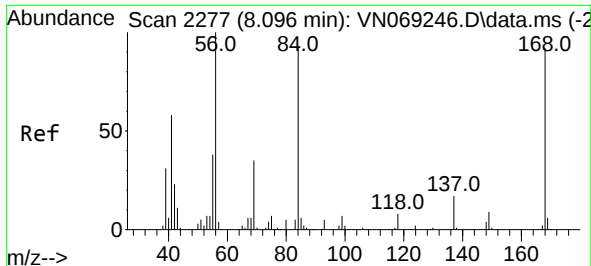
Tgt Ion: 77 Resp: 25

Ion Ratio Lower Upper

77 100

97 0.0 11.2 33.6#

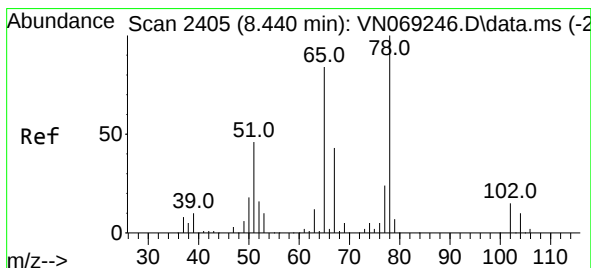
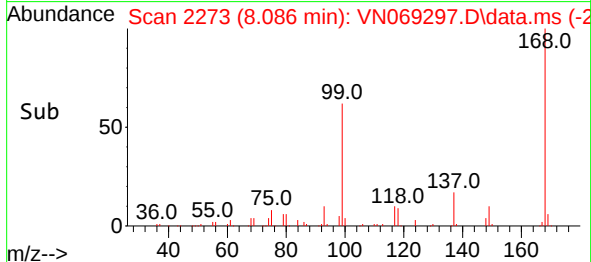
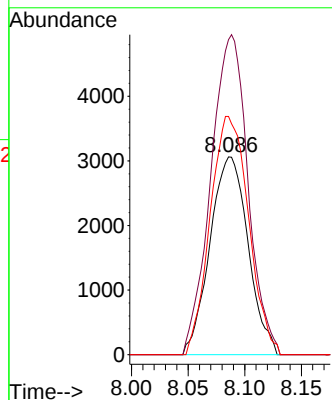
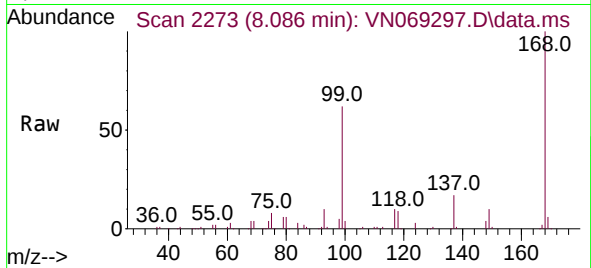




#31
Cyclohexane
Concen: 1.223 ug/l
RT: 8.086 min Scan# 21
Delta R.T. -0.010 min
Lab File: VN069297.D
Acq: 29 Oct 2021 13:30

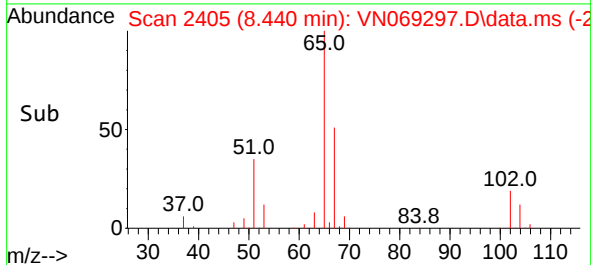
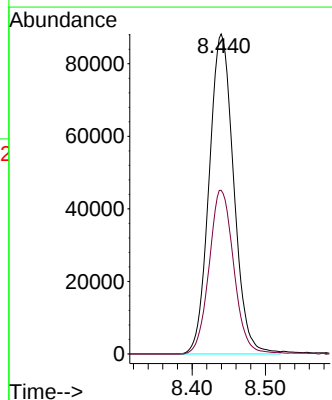
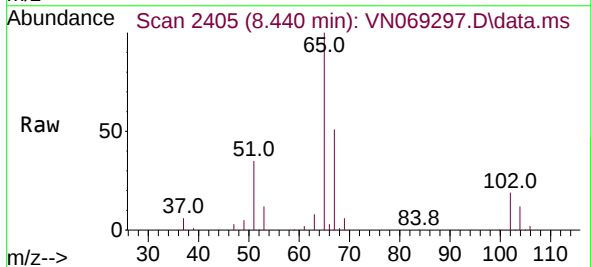
Instrument :
MSVOA_N
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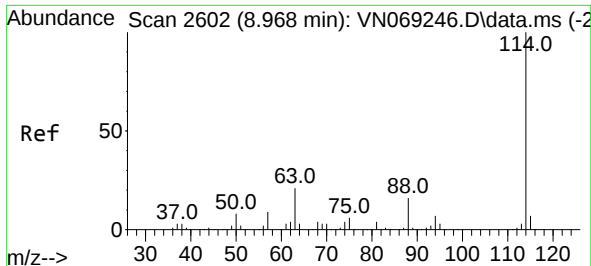
Tgt Ion: 56 Resp: 7155
Ion Ratio Lower Upper
56 100
69 159.3 26.9 40.3#
84 120.4 67.6 101.4#



#33
1,2-Dichloroethane-d4
Concen: 47.007 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. -0.000 min
Lab File: VN069297.D
Acq: 29 Oct 2021 13:30

Tgt Ion: 65 Resp: 205524
Ion Ratio Lower Upper
65 100
67 51.2 0.0 103.8

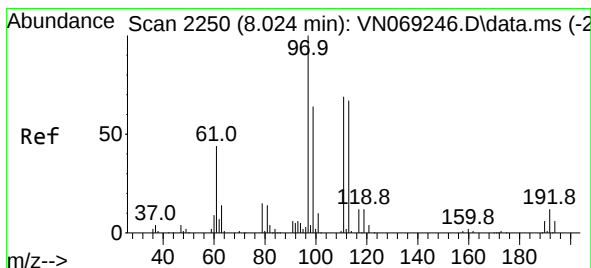
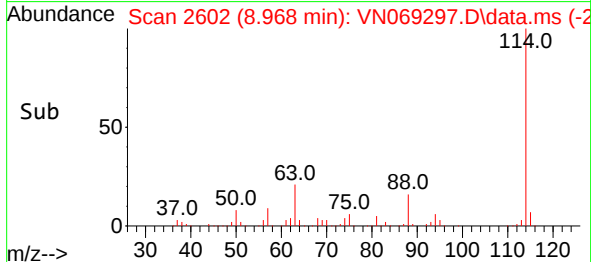
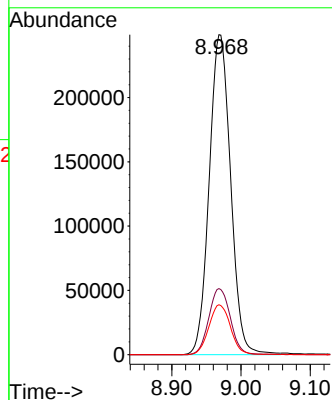
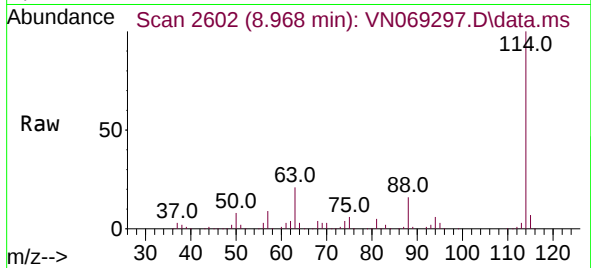




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.968 min Scan# 2602
Delta R.T. 0.000 min
Lab File: VN069297.D
Acq: 29 Oct 2021 13:30

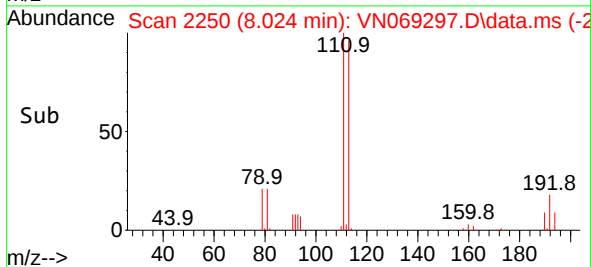
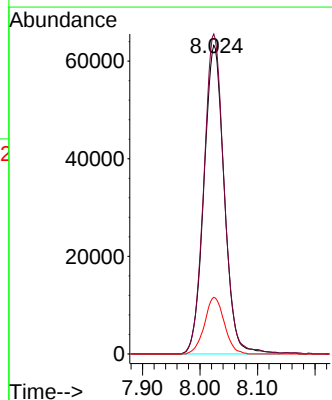
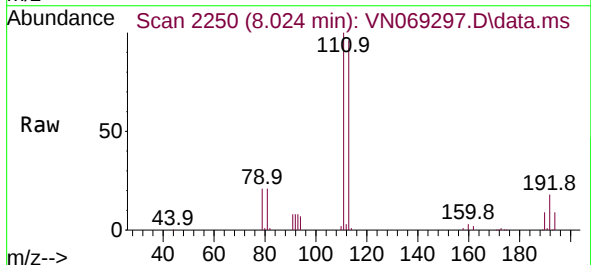
Instrument :
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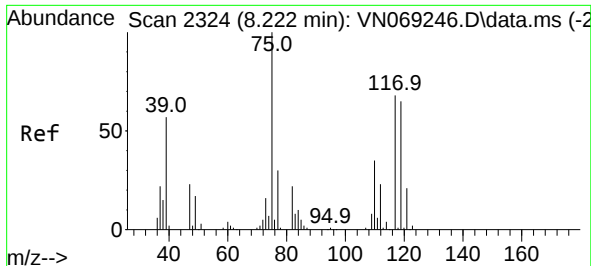
Tgt Ion:114 Resp: 534518
Ion Ratio Lower Upper
114 100
63 20.7 0.0 42.6
88 15.6 0.0 32.0



#35
Dibromofluoromethane
Concen: 46.624 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. -0.000 min
Lab File: VN069297.D
Acq: 29 Oct 2021 13:30

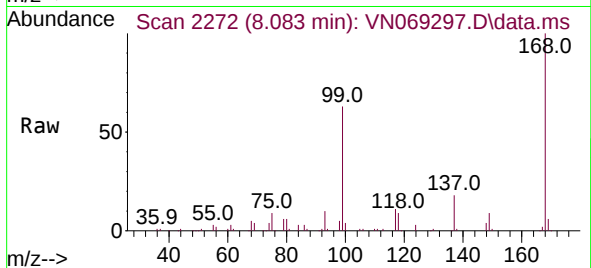
Tgt Ion:113 Resp: 155353
Ion Ratio Lower Upper
113 100
111 103.3 83.2 124.8
192 17.9 15.0 22.4



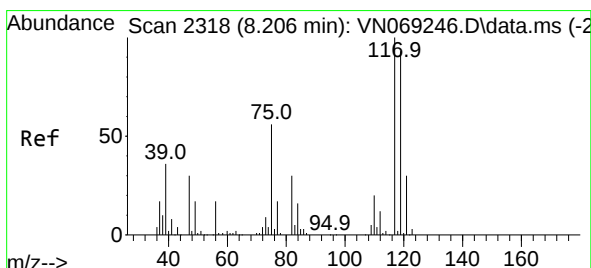
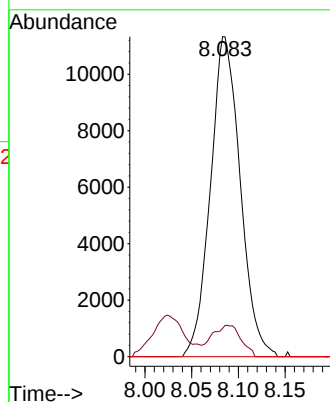
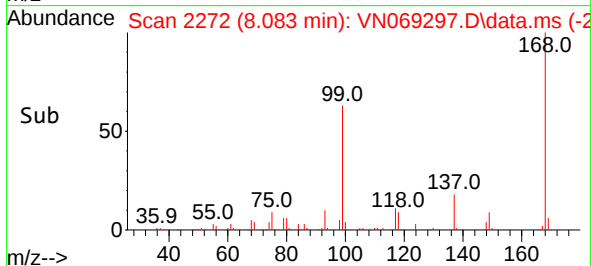


#36
 1,1-Dichloropropene
 Concen: 5.458 ug/l
 RT: 8.083 min Scan# 21
 Delta R.T. -0.139 min
 Lab File: VN069297.D
 Acq: 29 Oct 2021 13:30

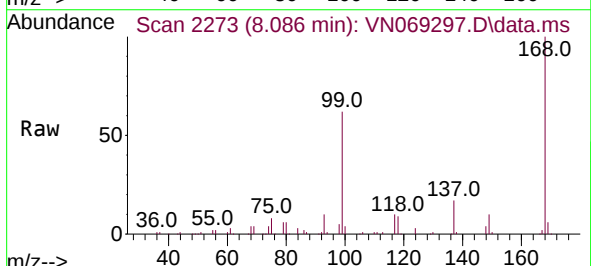
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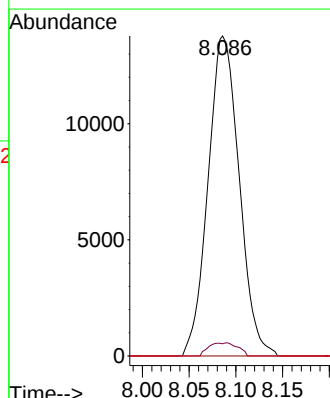
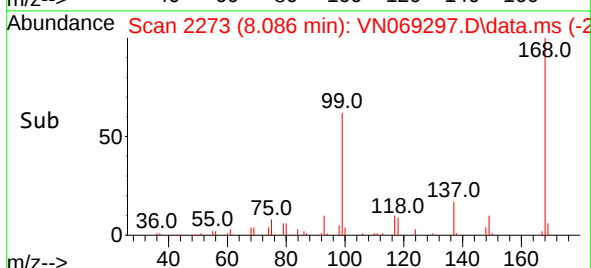
Tgt Ion: 75 Resp: 25150
 Ion Ratio Lower Upper
 75 100
 110 9.5 17.9 53.8#
 77 0.0 24.7 37.1#

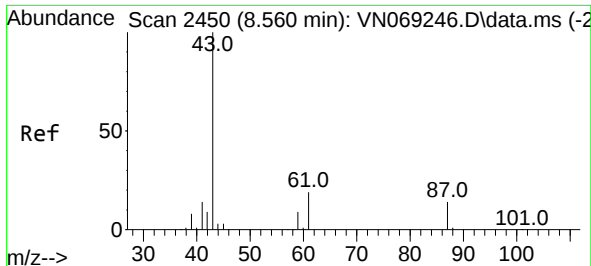


#38
 Carbon Tetrachloride
 Concen: 6.987 ug/l
 RT: 8.086 min Scan# 2273
 Delta R.T. -0.120 min
 Lab File: VN069297.D
 Acq: 29 Oct 2021 13:30



Tgt Ion: 117 Resp: 31975
 Ion Ratio Lower Upper
 117 100
 119 3.8 76.9 115.3#
 121 0.0 24.6 37.0#

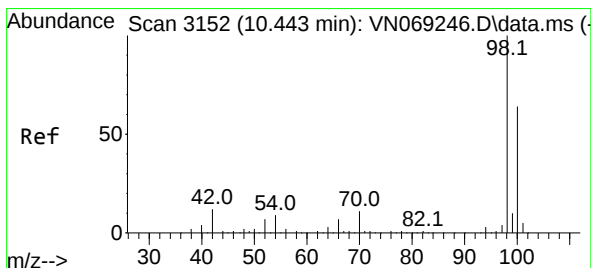
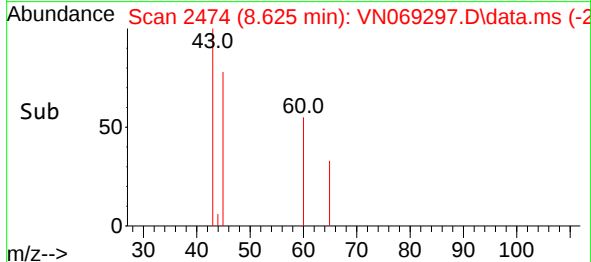
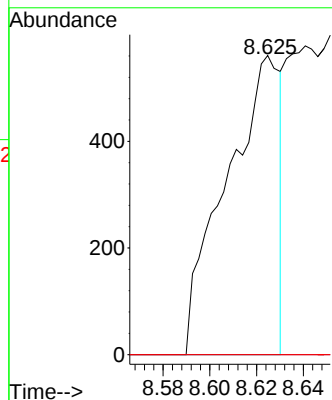
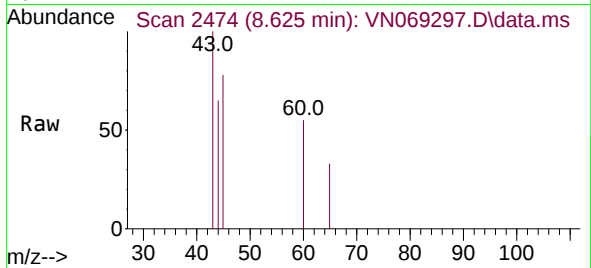




#43
Isopropyl Acetate
Concen: 0.556 ug/l
RT: 8.625 min Scan# 2450
Delta R.T. 0.065 min
Lab File: VN069297.D
Acq: 29 Oct 2021 13:30

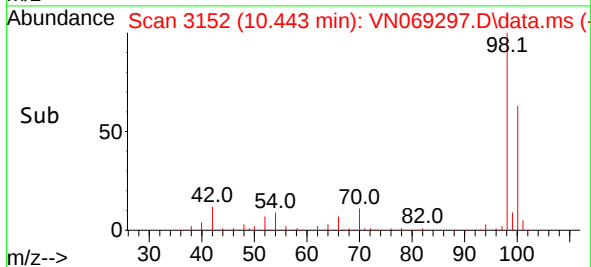
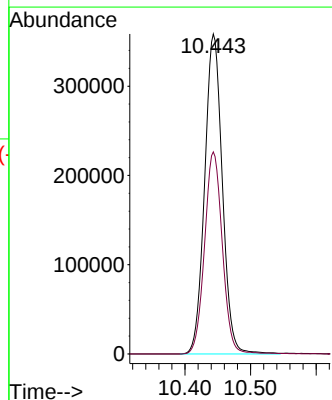
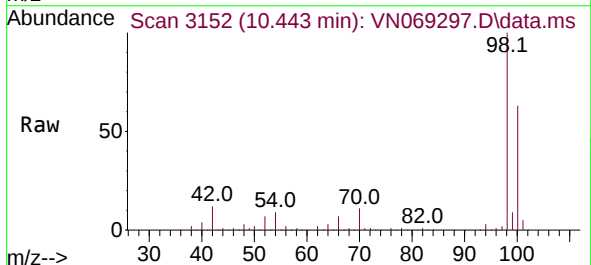
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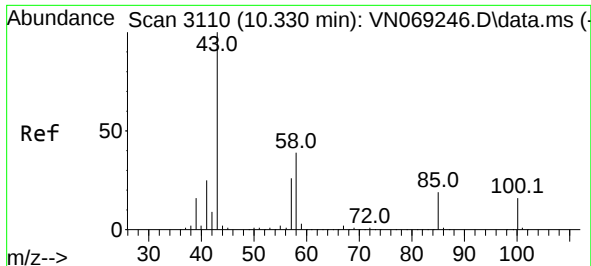
Tgt Ion: 43 Resp: 896
Ion Ratio Lower Upper
43 100
61 0.0 20.4 30.6#
87 0.0 10.7 16.1#



#50
Toluene-d8
Concen: 50.332 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN069297.D
Acq: 29 Oct 2021 13:30

Tgt Ion: 98 Resp: 670535
Ion Ratio Lower Upper
98 100
100 63.3 51.5 77.3





#51

4-Methyl-2-Pentanone

Concen: 6.482 ug/l

RT: 10.341 min Scan# 3114

Delta R.T. 0.011 min

Lab File: VN069297.D

Acq: 29 Oct 2021 13:30

Instrument :

MSVOA_N

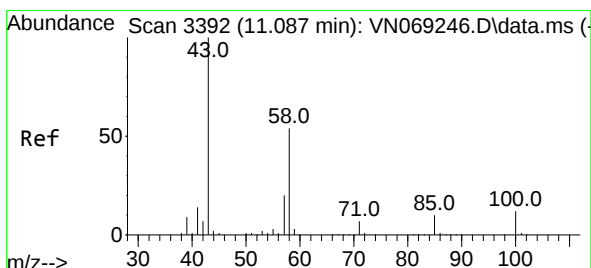
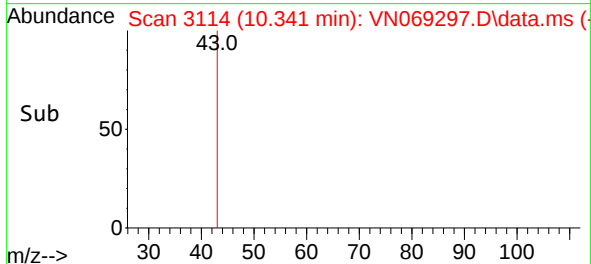
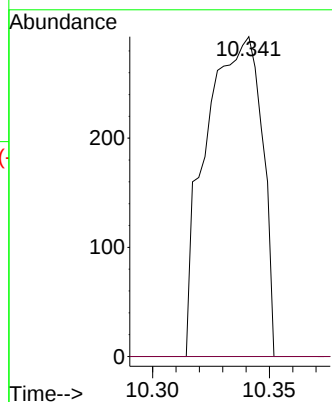
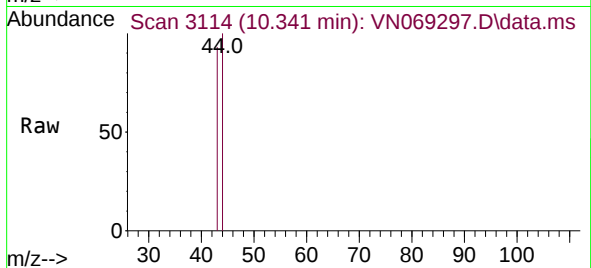
ClientSampleId :

Tgt Ion: 43 Resp: 486

Ion Ratio Lower Upper

43 100

58 0.0 31.0 46.4#



#59

2-Hexanone

Concen: 8.165 ug/l

RT: 11.089 min Scan# 3393

Delta R.T. 0.002 min

Lab File: VN069297.D

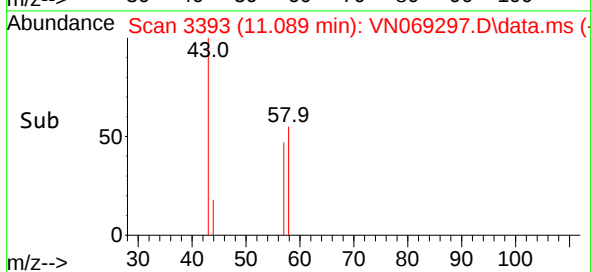
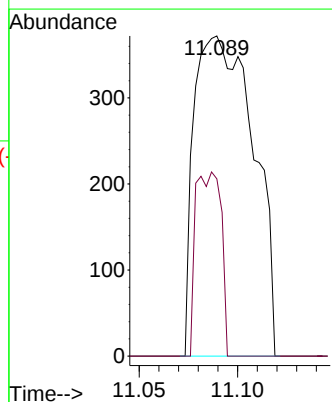
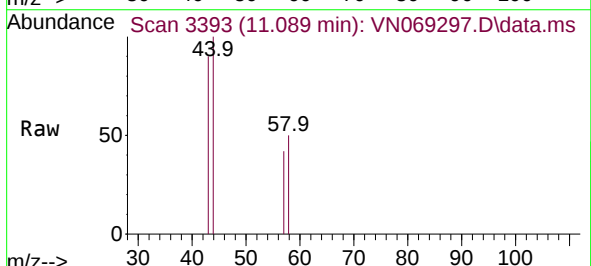
Acq: 29 Oct 2021 13:30

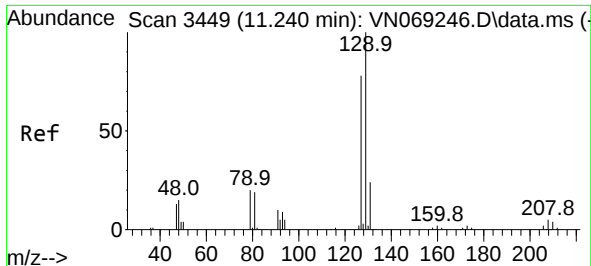
Tgt Ion: 43 Resp: 776

Ion Ratio Lower Upper

43 100

58 24.7 26.9 80.7#

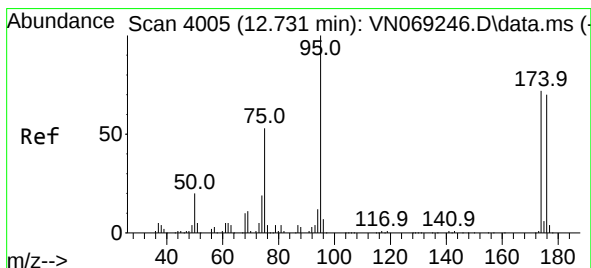
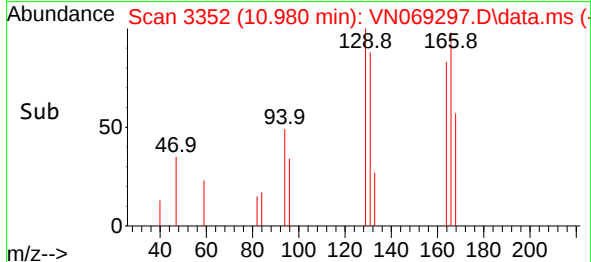
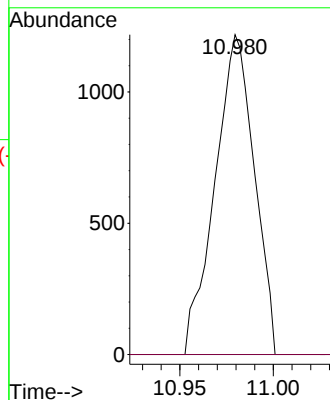
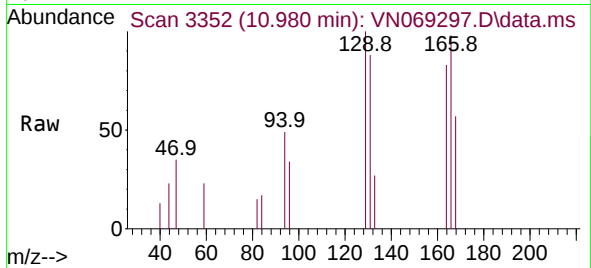




#60
Dibromochloromethane
Concen: 2.388 ug/l
RT: 10.980 min Scan# 31
Delta R.T. -0.261 min
Lab File: VN069297.D
Acq: 29 Oct 2021 13:30

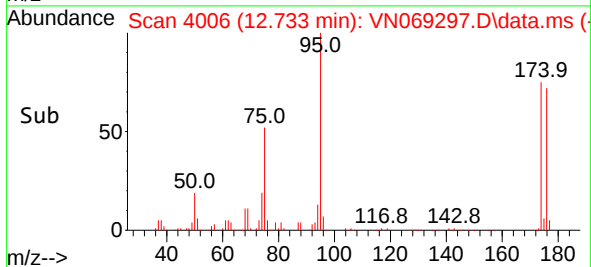
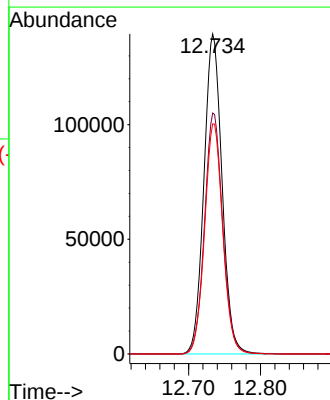
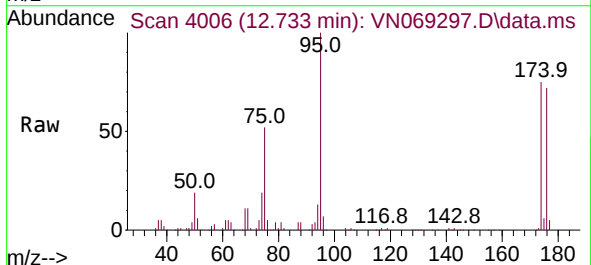
Instrument :
MSVOA_N
ClientSampleId :

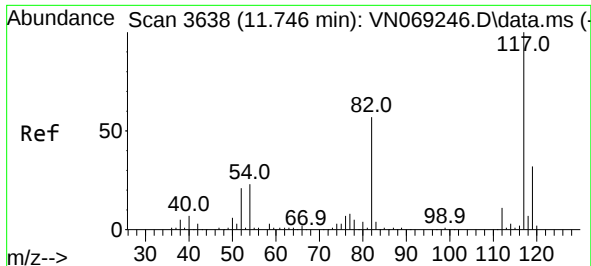
Tgt Ion:129 Resp: 1786
Ion Ratio Lower Upper
129 100
127 0.0 39.1 117.2#



#62
4-Bromofluorobenzene
Concen: 48.652 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.002 min
Lab File: VN069297.D
Acq: 29 Oct 2021 13:30

Tgt Ion: 95 Resp: 244583
Ion Ratio Lower Upper
95 100
174 75.8 0.0 144.8
176 72.2 0.0 140.0

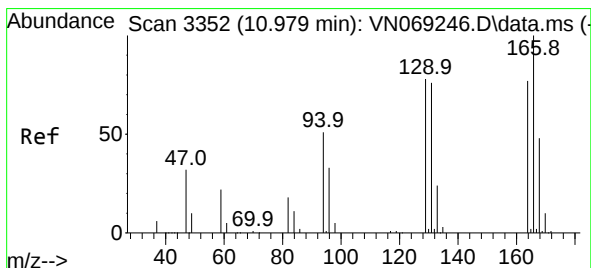
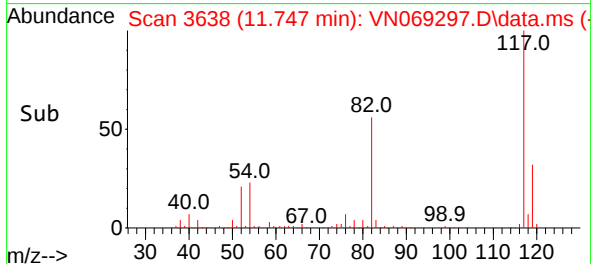
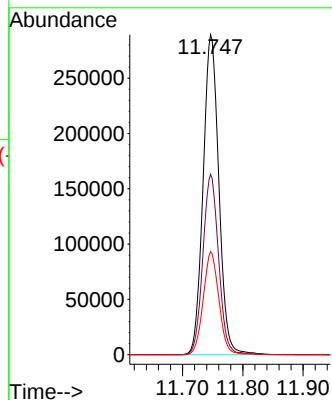
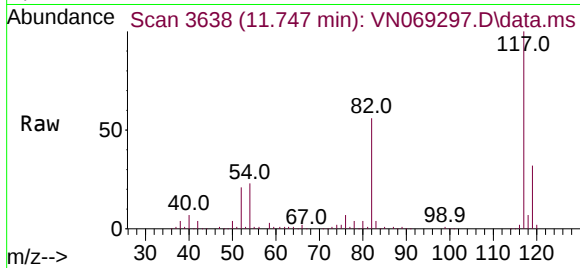




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VN069297.D
Acq: 29 Oct 2021 13:30

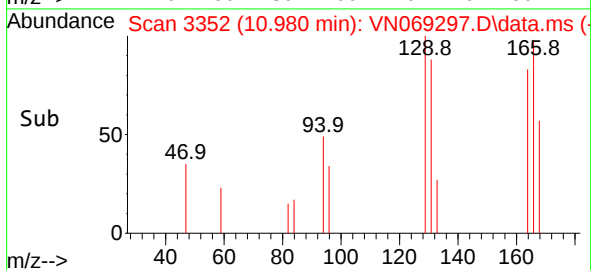
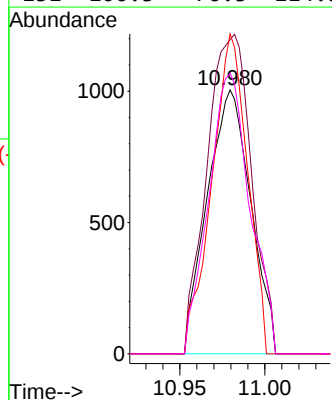
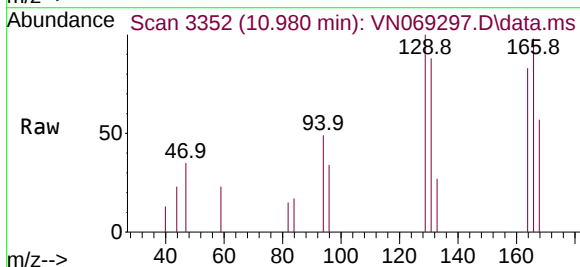
Instrument :
MSVOA_N
ClientSampleId :

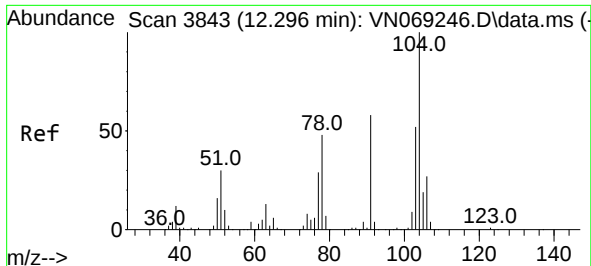
Tgt Ion:117 Resp: 525311
Ion Ratio Lower Upper
117 100
82 56.4 46.4 69.6
119 32.2 26.0 39.0



#64
Tetrachloroethene
Concen: 0.533 ug/l
RT: 10.980 min Scan# 3352
Delta R.T. 0.001 min
Lab File: VN069297.D
Acq: 29 Oct 2021 13:30

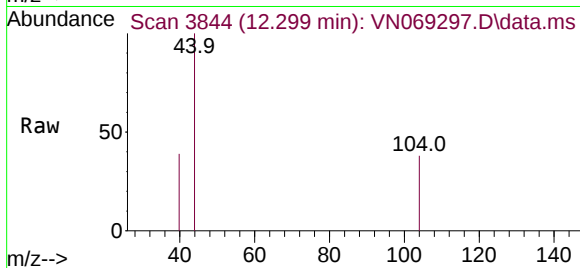
Tgt Ion:164 Resp: 1790
Ion Ratio Lower Upper
164 100
166 119.1 99.8 149.8
129 121.2 79.2 118.8#
131 106.3 76.3 114.5



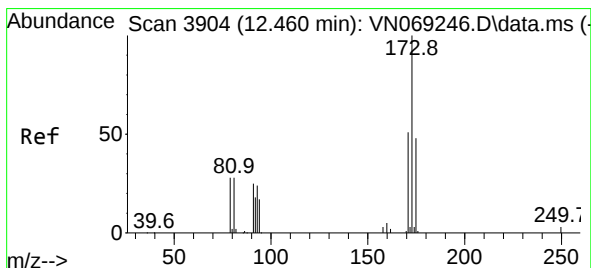
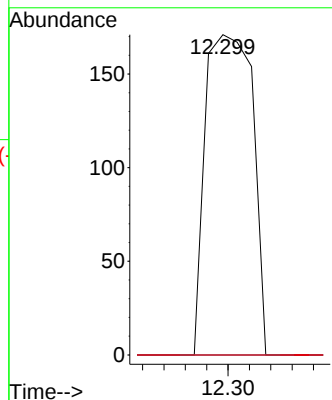
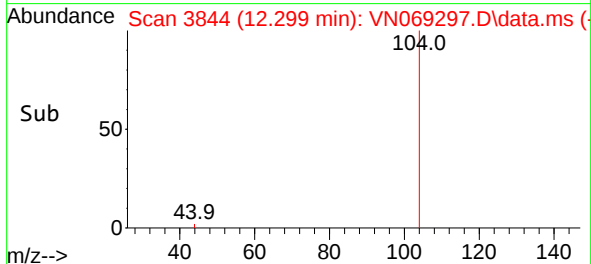


#70
Styrene
Concen: 1.464 ug/l
RT: 12.299 min Scan# 3844
Delta R.T. 0.003 min
Lab File: VN069297.D
Acq: 29 Oct 2021 13:30

Instrument :
MSVOA_N
ClientSampleId :

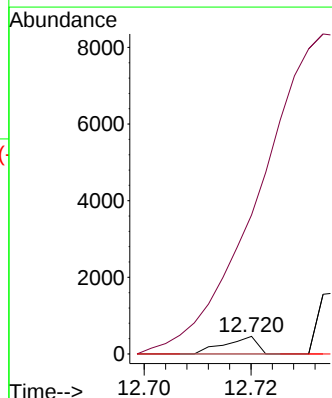
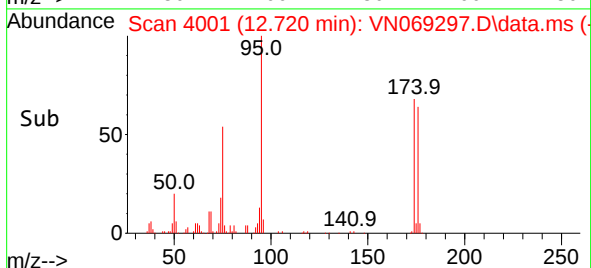
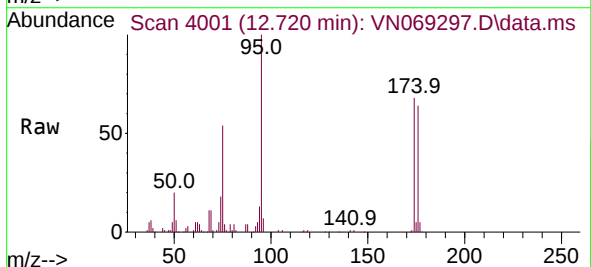


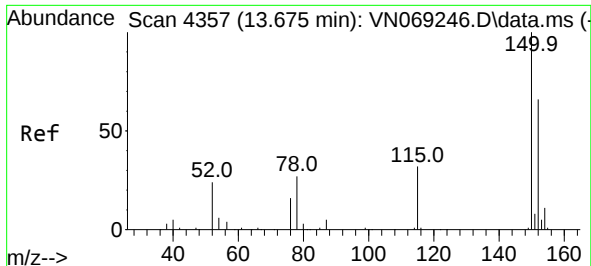
Tgt Ion:104 Resp: 105
Ion Ratio Lower Upper
104 100
78 0.0 42.2 63.4#
103 0.0 44.4 66.6#



#71
Bromoform
Concen: 2.929 ug/l
RT: 12.720 min Scan# 4001
Delta R.T. 0.260 min
Lab File: VN069297.D
Acq: 29 Oct 2021 13:30

Tgt Ion:173 Resp: 193
Ion Ratio Lower Upper
173 100
175 0.0 23.8 71.5#
254 0.0 0.0 0.0

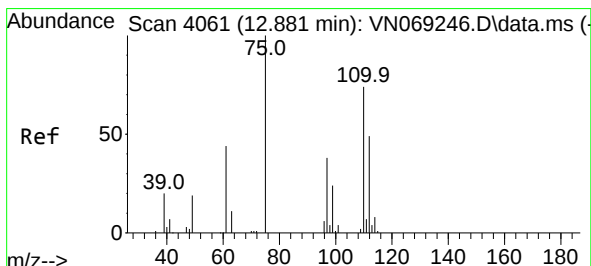
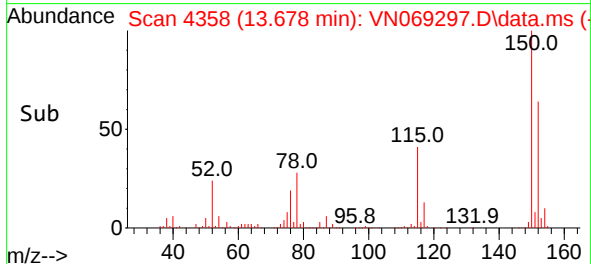
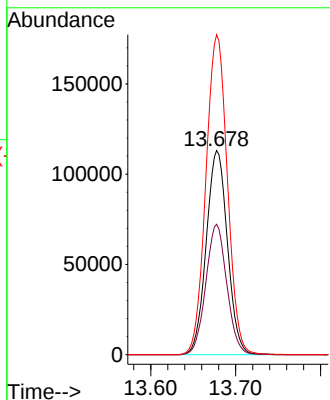
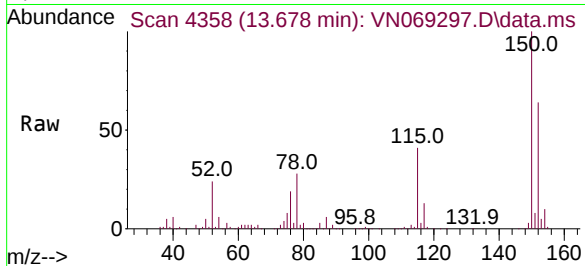




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.678 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VN069297.D
 Acq: 29 Oct 2021 13:30

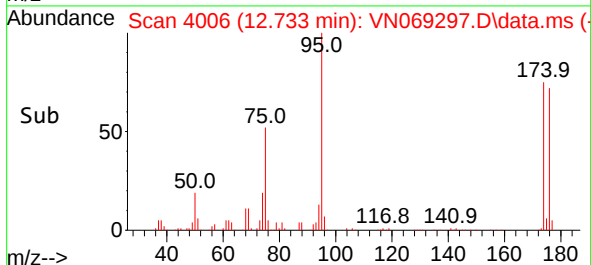
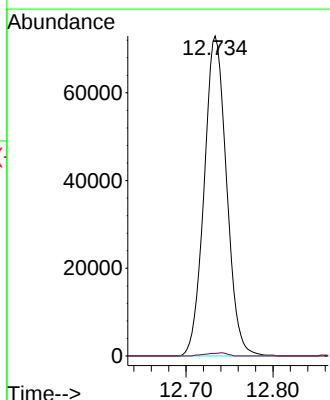
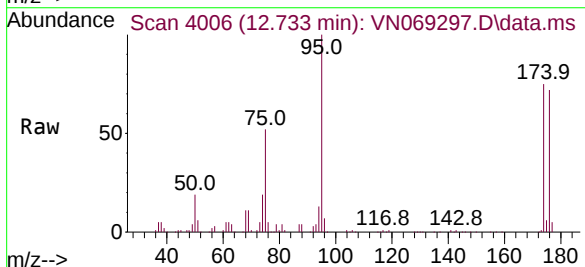
Instrument :
 MSVOA_N
 ClientSampleId :

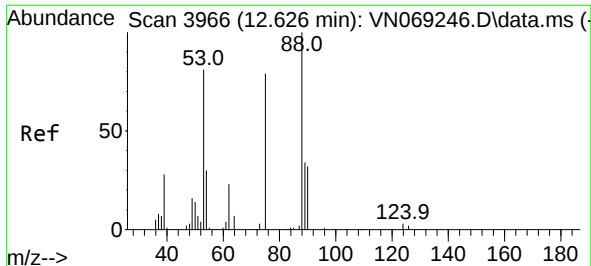
Tgt Ion:152 Resp: 196305
 Ion Ratio Lower Upper
 152 100
 115 63.3 31.4 94.3
 150 158.5 0.0 351.0



#76
 1,2,3-Trichloropropane
 Concen: 25.282 ug/l
 RT: 12.733 min Scan# 4006
 Delta R.T. -0.148 min
 Lab File: VN069297.D
 Acq: 29 Oct 2021 13:30

Tgt Ion: 75 Resp: 130529
 Ion Ratio Lower Upper
 75 100
 77 0.9 96.2 288.4#

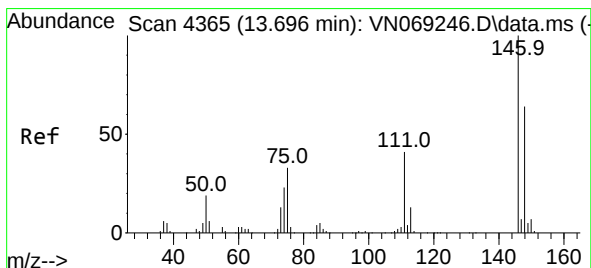
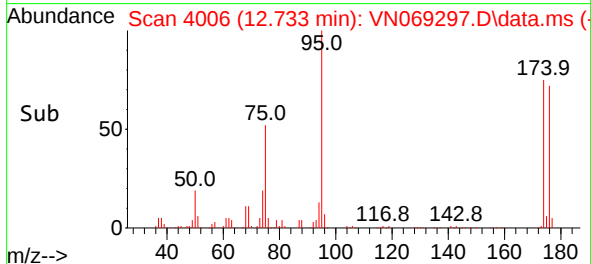
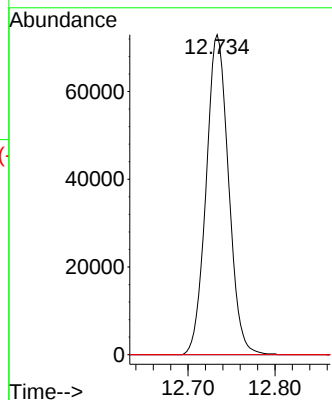
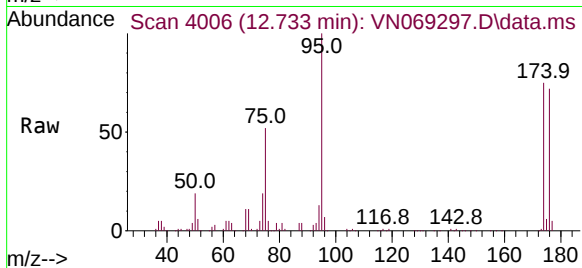




#81
trans-1,4-Dichloro-2-butene
Concen: 72.363 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.107 min
Lab File: VN069297.D
Acq: 29 Oct 2021 13:30

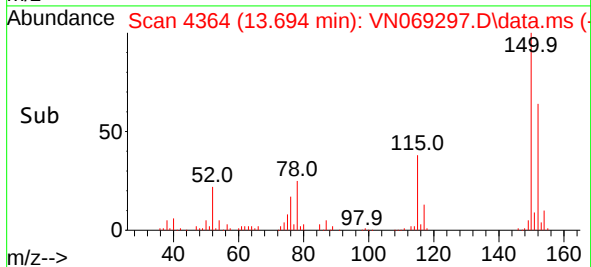
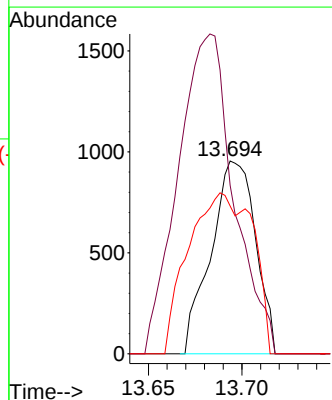
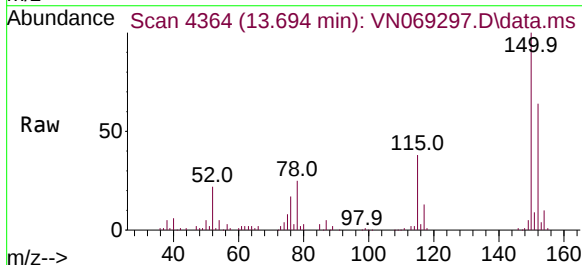
Instrument :
MSVOA_N
ClientSampleId :

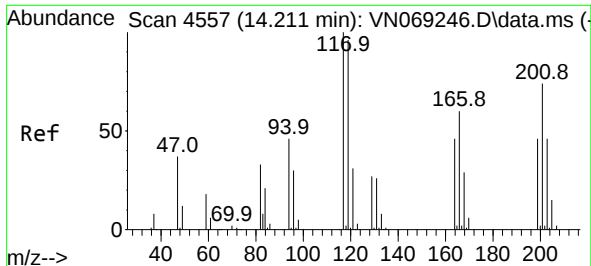
Tgt Ion: 75 Resp: 130529
Ion Ratio Lower Upper
75 100
53 0.0 75.4 113.2#
89 0.0 36.9 55.3#



#88
1,4-Dichlorobenzene
Concen: 0.315 ug/l
RT: 13.694 min Scan# 4364
Delta R.T. -0.002 min
Lab File: VN069297.D
Acq: 29 Oct 2021 13:30

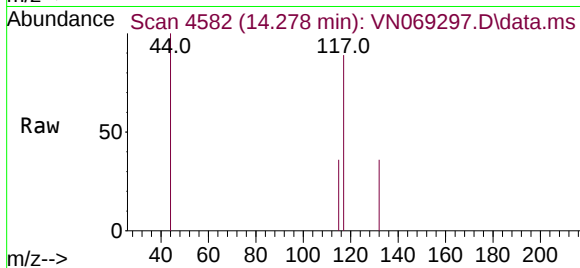
Tgt Ion:146 Resp: 1587
Ion Ratio Lower Upper
146 100
111 206.4 20.6 61.8#
148 85.5 32.1 96.5



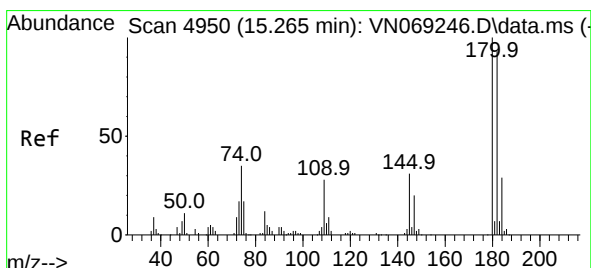
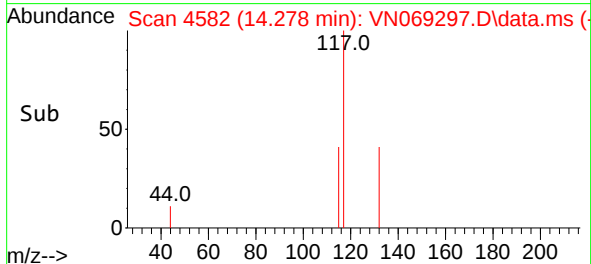
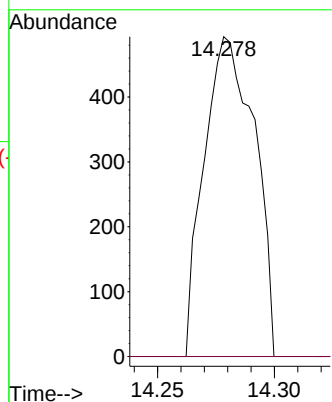


#90
Hexachloroethane
Concen: 2.303 ug/l
RT: 14.278 min Scan# 4582
Delta R.T. 0.067 min
Lab File: VN069297.D
Acq: 29 Oct 2021 13:30

Instrument :
MSVOA_N
ClientSampleId :

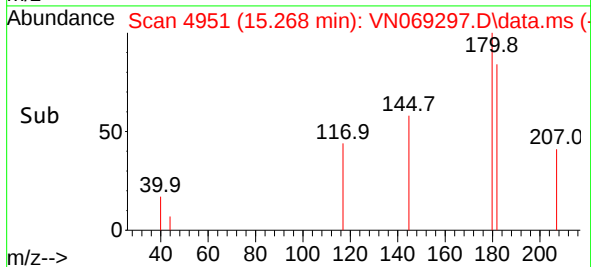
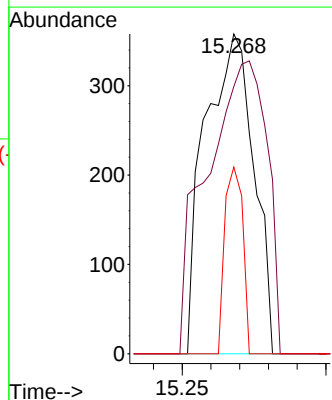
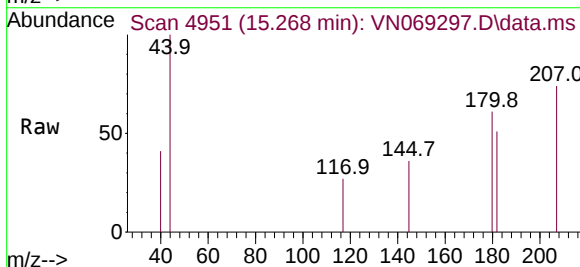


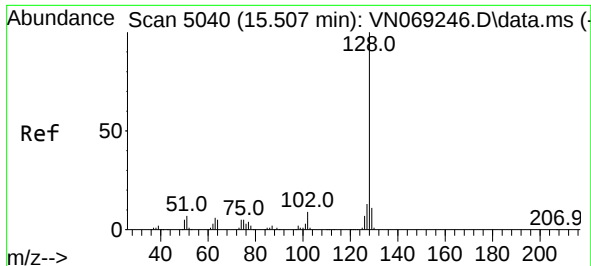
Tgt Ion:117 Resp: 739
Ion Ratio Lower Upper
117 100
201 0.0 37.1 111.5#



#93
1,2,4-Trichlorobenzene
Concen: 2.613 ug/l
RT: 15.268 min Scan# 4951
Delta R.T. 0.003 min
Lab File: VN069297.D
Acq: 29 Oct 2021 13:30

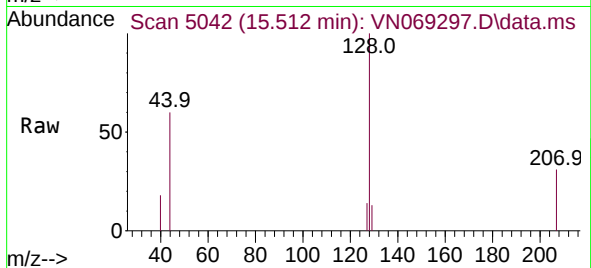
Tgt Ion:180 Resp: 421
Ion Ratio Lower Upper
180 100
182 113.3 47.9 143.7
145 21.6 16.4 49.2



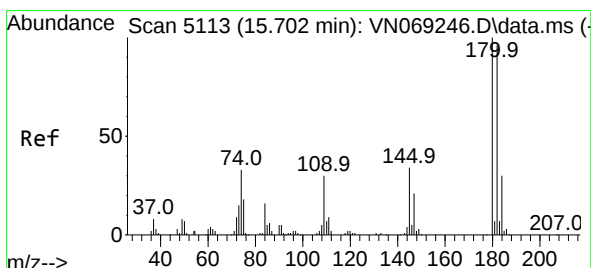
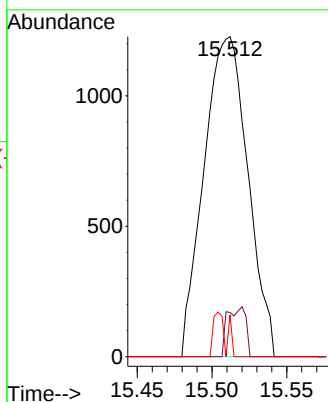
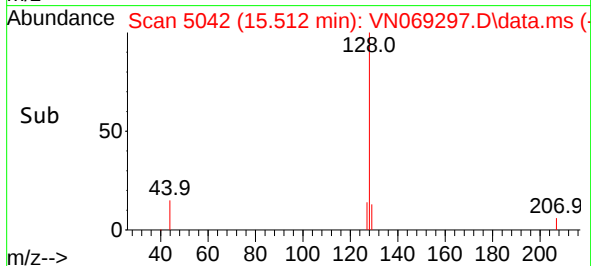


#95
Naphthalene
Concen: 3.547 ug/l
RT: 15.512 min Scan# 5040
Delta R.T. 0.005 min
Lab File: VN069297.D
Acq: 29 Oct 2021 13:30

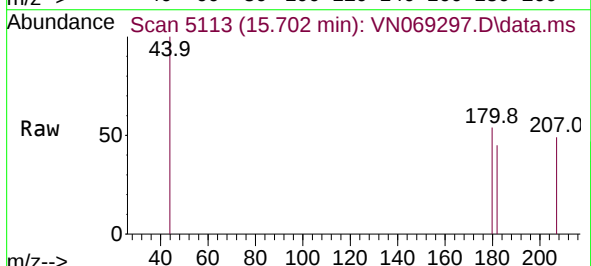
Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:128 Resp: 2510
Ion Ratio Lower Upper
128 100
127 6.5 10.5 15.7#
129 4.1 8.9 13.3#



#96
1,2,3-Trichlorobenzene
Concen: 2.358 ug/l
RT: 15.702 min Scan# 5113
Delta R.T. 0.000 min
Lab File: VN069297.D
Acq: 29 Oct 2021 13:30



Tgt Ion:180 Resp: 491
Ion Ratio Lower Upper
180 100
182 99.0 48.1 144.3
145 4.9 17.4 52.2#

