

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062822\
 Data File : VN073215.D
 Acq On : 28 Jun 2022 22:39
 Operator : JC\MD
 Sample : N3494-27
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 29 02:04:31 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N062822W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 29 01:54:03 2022
 Response via : Initial Calibration

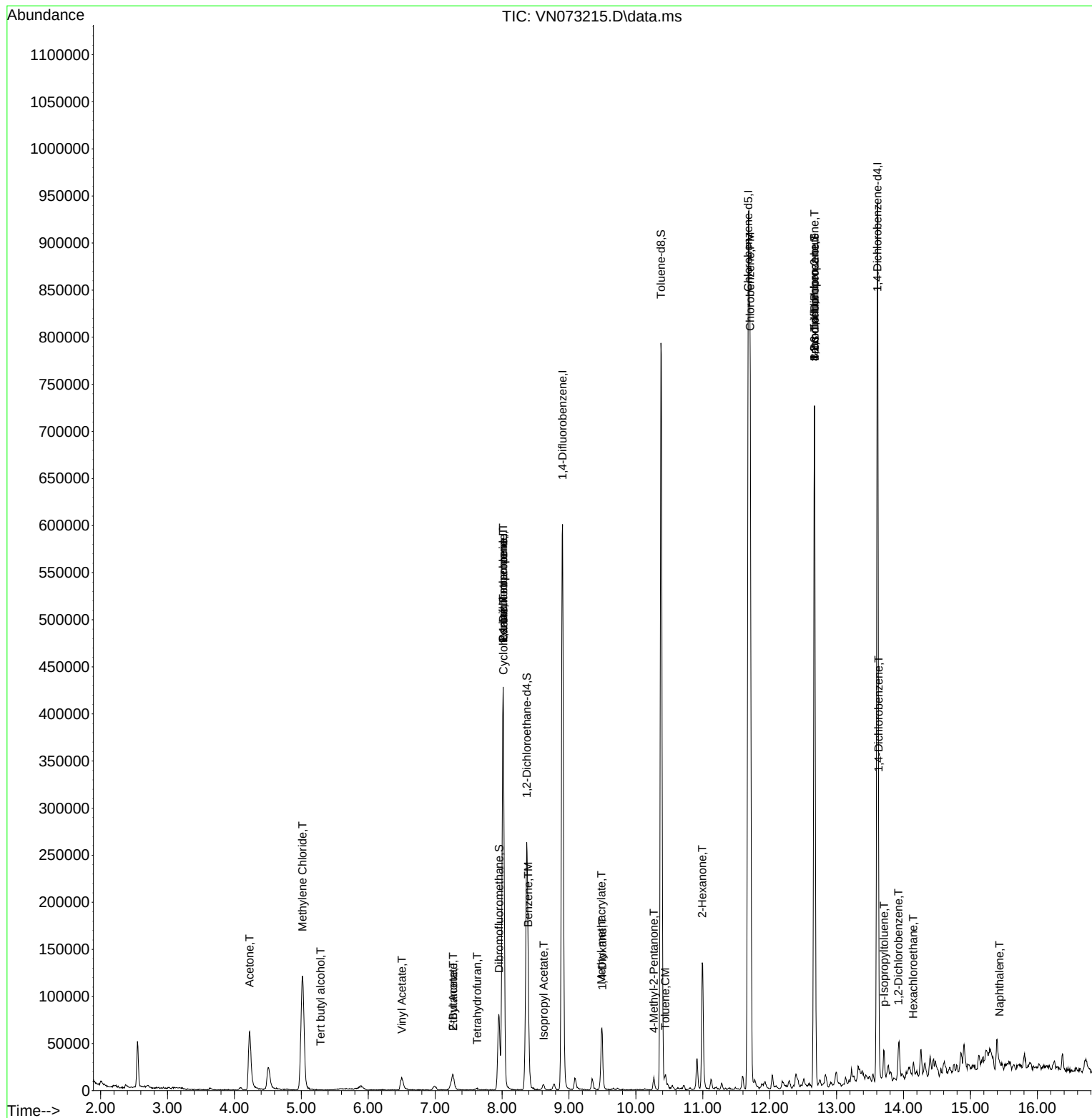
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.016	168	322289	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	529799	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.680	117	487165	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.610	152	242575	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	198139	42.587	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	85.180%		
35) Dibromofluoromethane	7.957	113	61074	17.327	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	34.660%#		
50) Toluene-d8	10.375	98	550049	43.937	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	87.880%		
62) 4-Bromofluorobenzene	12.669	95	248289	51.609	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	103.220%		
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.287	59	268	0.238	ug/l #	72
16) Acetone	4.228	43	119303	45.682	ug/l	95
20) Methylene Chloride	5.016	84	99915	21.770	ug/l	91
23) Vinyl Acetate	6.504	43	2679	0.201	ug/l #	68
25) 2-Butanone	7.269	43	27344	6.576	ug/l	92
29) Tetrahydrofuran	7.628	42	1562	0.549	ug/l #	60
31) Cyclohexane	8.022	56	7762	1.019	ug/l #	25
36) 1,1-Dichloropropene	8.016	75	26031	4.800	ug/l #	50
37) Ethyl Acetate	7.269	43	27344	3.337	ug/l #	67
38) Carbon Tetrachloride	8.016	117	32596	5.812	ug/l #	15
40) Benzene	8.392	78	45112	2.695	ug/l	94
43) Isopropyl Acetate	8.622	43	2432	0.206	ug/l #	53
48) Methyl methacrylate	9.486	41	6303	1.156	ug/l #	39
49) 1,4-Dioxane	9.498	88	133	1.285	ug/l #	1
51) 4-Methyl-2-Pentanone	10.269	43	8629	1.155	ug/l	93
52) Toluene	10.439	92	5089	0.492	ug/l	91
59) 2-Hexanone	10.992	43	117607	20.657	ug/l #	21
65) Chlorobenzene	11.710	112	389260	35.330	ug/l	97
71) Bromoform	12.669	173	2011	0.678	ug/l #	1
76) 1,2,3-Trichloropropane	12.669	75	130766	20.616	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.669	75	130766	56.539	ug/l #	10
86) p-Isopropyltoluene	13.710	119	5739	0.346	ug/l	91
88) 1,4-Dichlorobenzene	13.627	146	1927	0.220	ug/l #	1
90) Hexachloroethane	14.145	117	715	0.231	ug/l #	9
91) 1,2-Dichlorobenzene	13.921	146	8497	0.955	ug/l	84
95) Naphthalene	15.433	128	7852	0.420	ug/l #	93

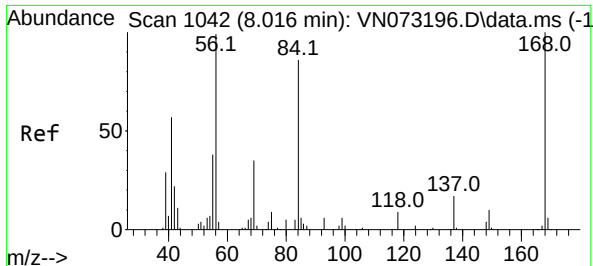
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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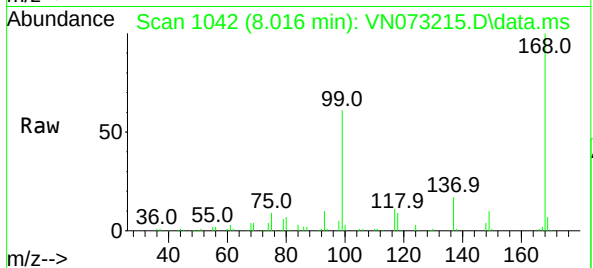
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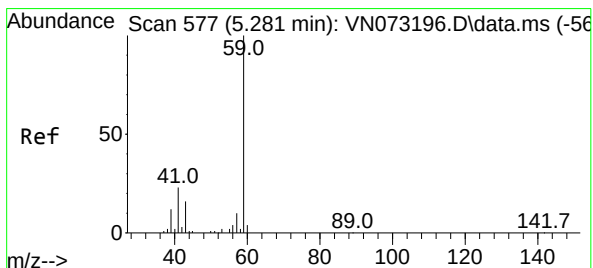
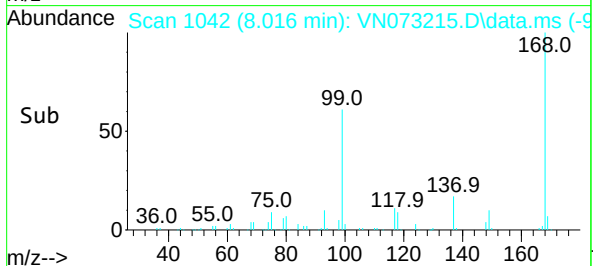
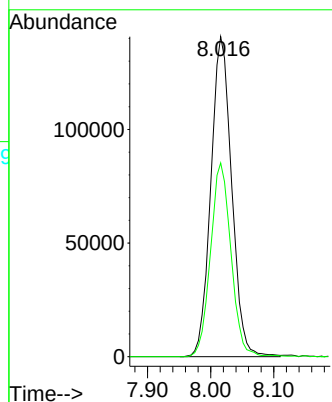


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.000 min
Lab File: VN073215.D
Acq: 28 Jun 2022 22:39

Instrument :
MSVOA_N
ClientSampleId :

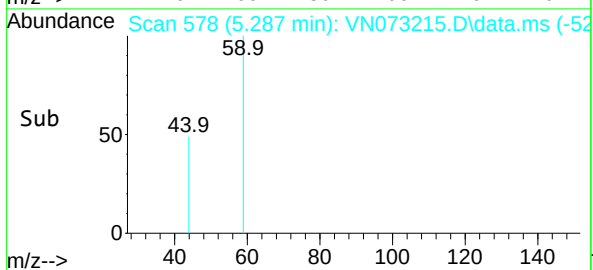
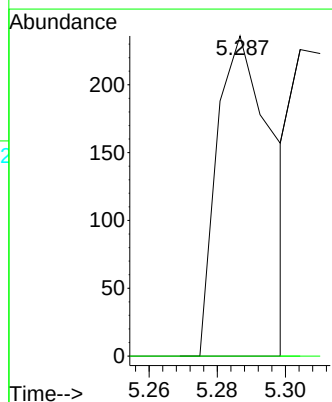
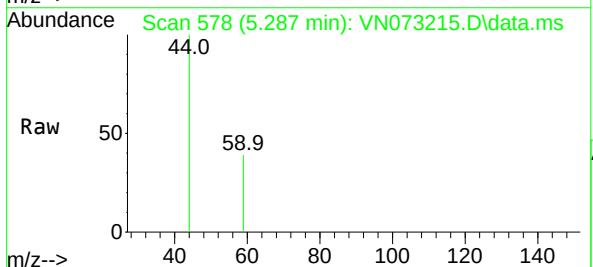


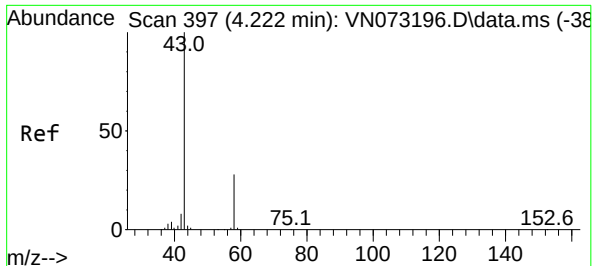
Tgt Ion:168 Resp: 322289
Ion Ratio Lower Upper
168 100
99 60.5 42.3 63.5



#11
Tert butyl alcohol
Concen: 0.238 ug/l
RT: 5.287 min Scan# 578
Delta R.T. 0.006 min
Lab File: VN073215.D
Acq: 28 Jun 2022 22:39

Tgt Ion: 59 Resp: 268
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

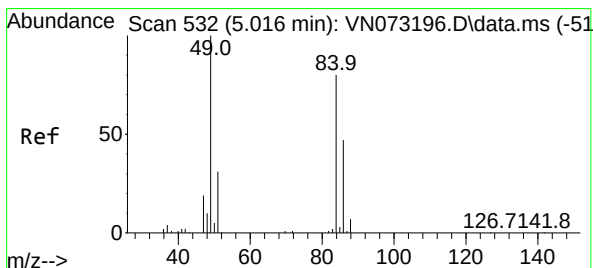
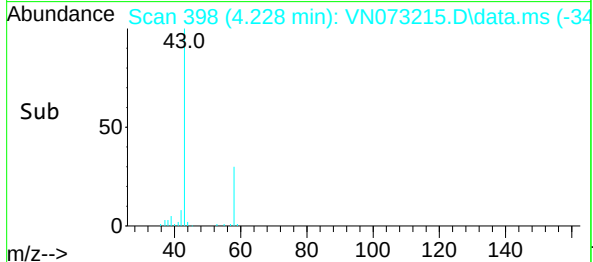
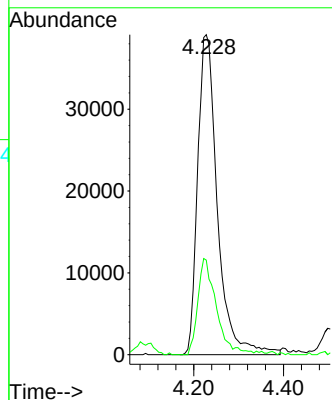
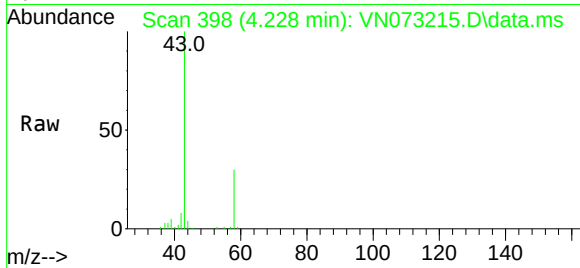




#16
Acetone
Concen: 45.682 ug/l
RT: 4.228 min Scan# 397
Delta R.T. 0.006 min
Lab File: VN073215.D
Acq: 28 Jun 2022 22:39

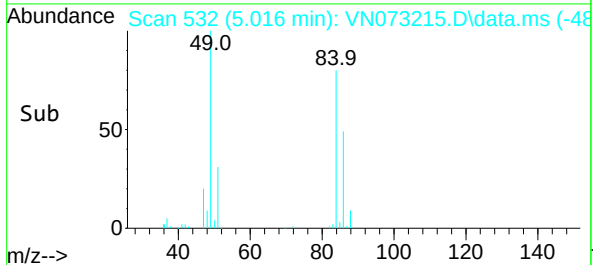
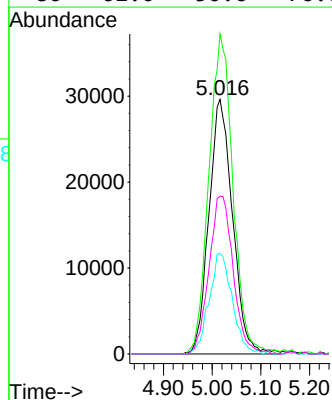
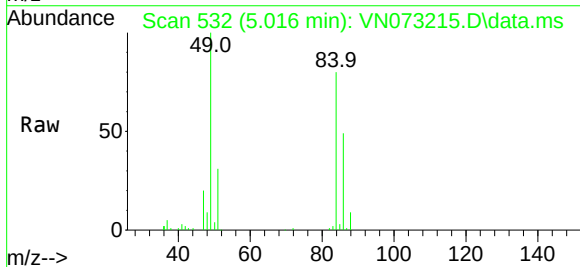
Instrument :
MSVOA_N
ClientSampleId :

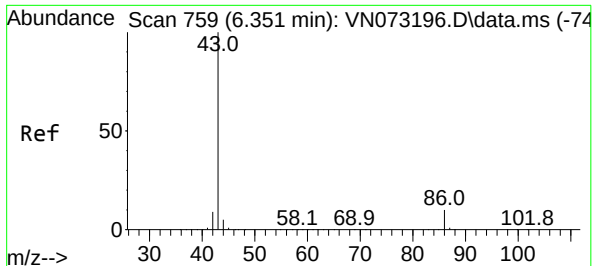
Tgt Ion: 43 Resp: 119303
Ion Ratio Lower Upper
43 100
58 29.6 26.0 39.0



#20
Methylene Chloride
Concen: 21.770 ug/l
RT: 5.016 min Scan# 532
Delta R.T. 0.000 min
Lab File: VN073215.D
Acq: 28 Jun 2022 22:39

Tgt Ion: 84 Resp: 99915
Ion Ratio Lower Upper
84 100
49 125.7 88.3 132.5
51 39.4 28.2 42.2
86 62.0 50.6 76.0

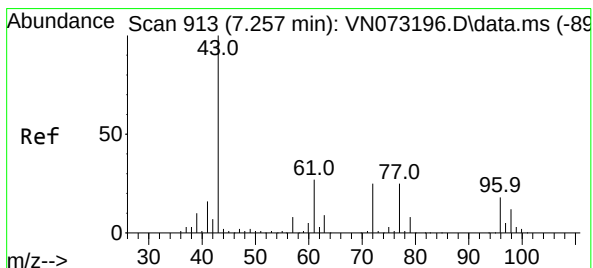
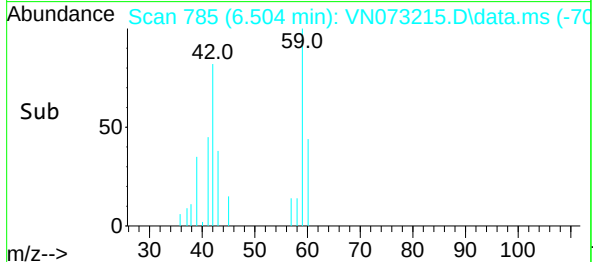
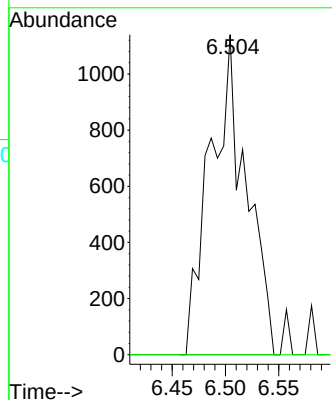
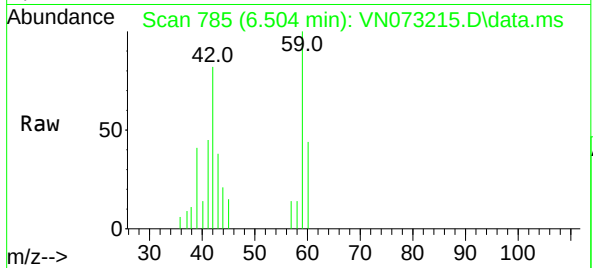




#23
 Vinyl Acetate
 Concen: 0.201 ug/l
 RT: 6.504 min Scan# 71
 Delta R.T. 0.153 min
 Lab File: VN073215.D
 Acq: 28 Jun 2022 22:39

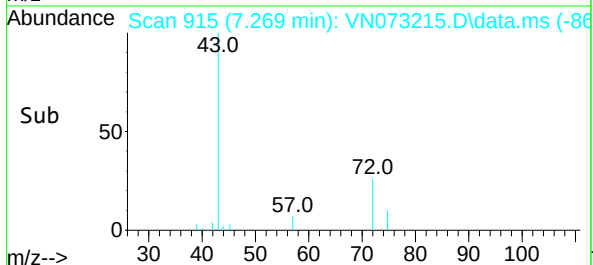
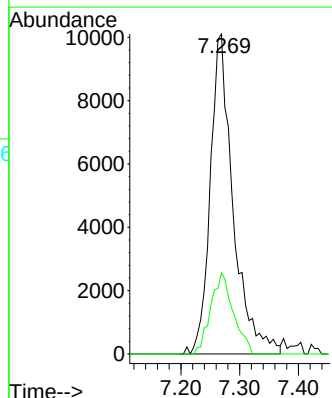
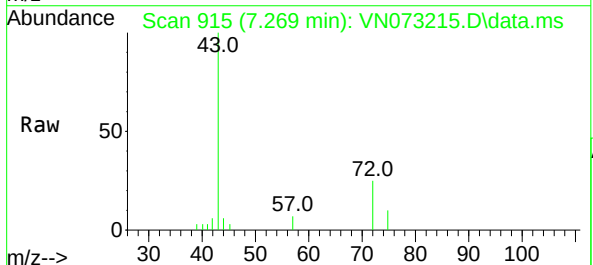
Instrument :
 MSVOA_N
 ClientSampleId :

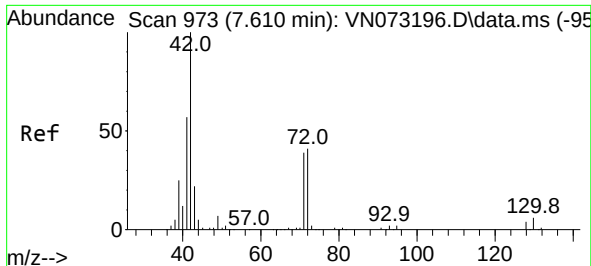
Tgt Ion: 43 Resp: 2679
 Ion Ratio Lower Upper
 43 100
 86 0.0 10.0 15.0#



#25
 2-Butanone
 Concen: 6.576 ug/l
 RT: 7.269 min Scan# 915
 Delta R.T. 0.012 min
 Lab File: VN073215.D
 Acq: 28 Jun 2022 22:39

Tgt Ion: 43 Resp: 27344
 Ion Ratio Lower Upper
 43 100
 72 25.3 23.7 35.5





#29

Tetrahydrofuran

Concen: 0.549 ug/l

RT: 7.628 min Scan# 91

Delta R.T. 0.018 min

Lab File: VN073215.D

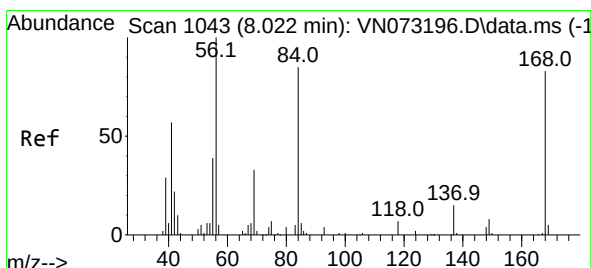
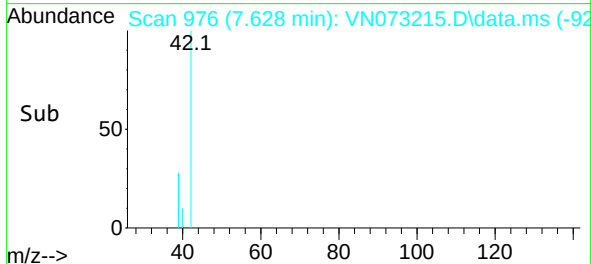
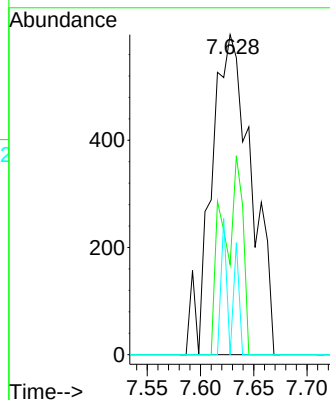
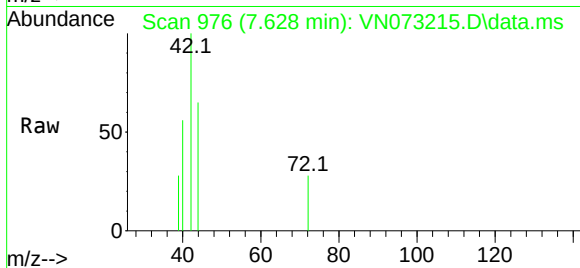
Acq: 28 Jun 2022 22:39

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	42	Resp:	1562
Ion	Ratio	Lower	Upper
42	100		
72	30.2	39.7	59.5#
71	10.4	36.6	55.0#



#31

Cyclohexane

Concen: 1.019 ug/l

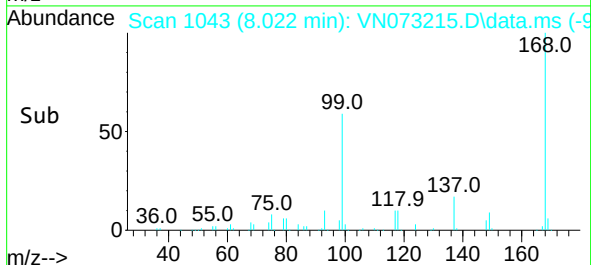
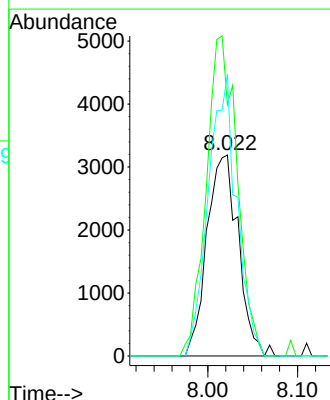
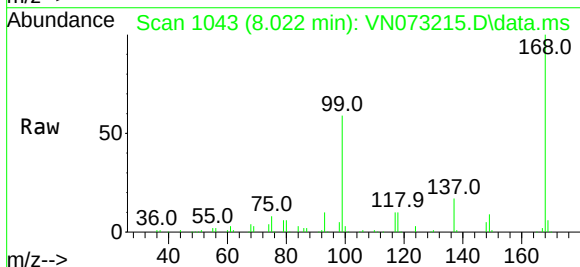
RT: 8.022 min Scan# 1043

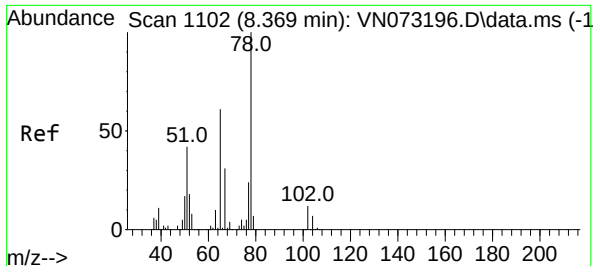
Delta R.T. -0.000 min

Lab File: VN073215.D

Acq: 28 Jun 2022 22:39

Tgt Ion:	56	Resp:	7762
Ion	Ratio	Lower	Upper
56	100		
69	125.2	27.8	41.8#
84	140.3	76.9	115.3#

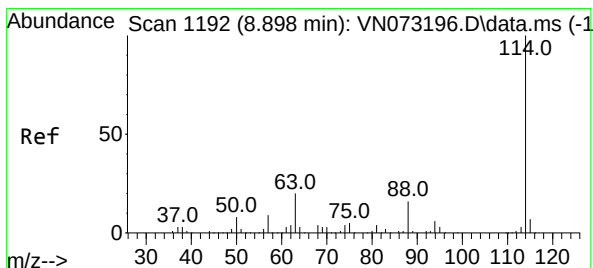
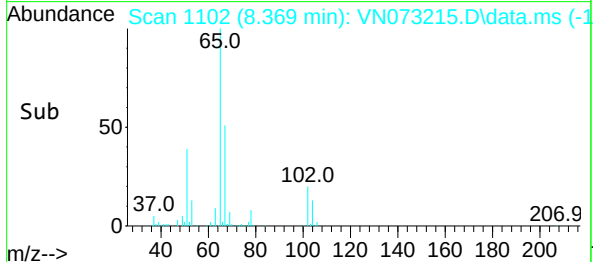
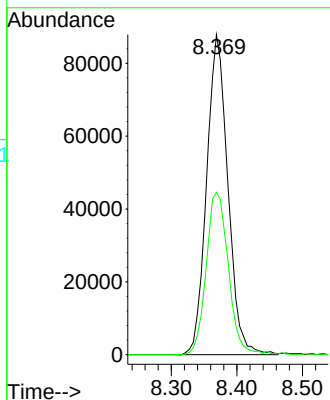
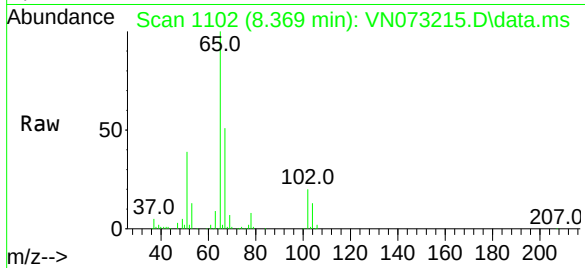




#33
 1,2-Dichloroethane-d4
 Concen: 42.587 ug/l
 RT: 8.369 min Scan# 1102
 Delta R.T. -0.000 min
 Lab File: VN073215.D
 Acq: 28 Jun 2022 22:39

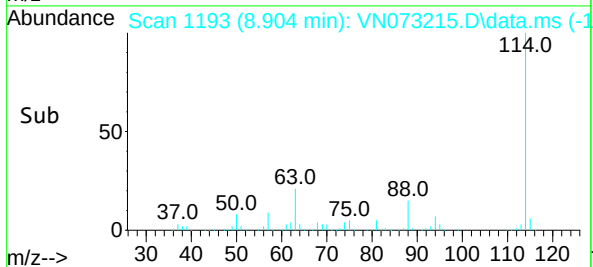
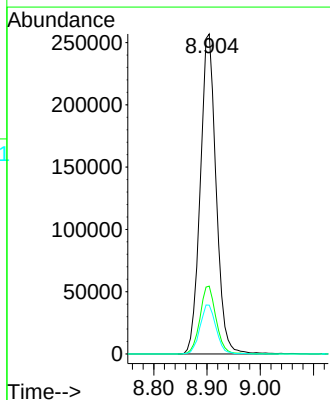
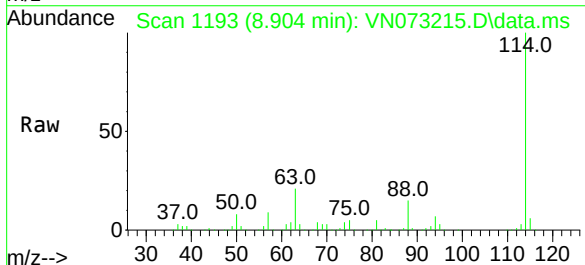
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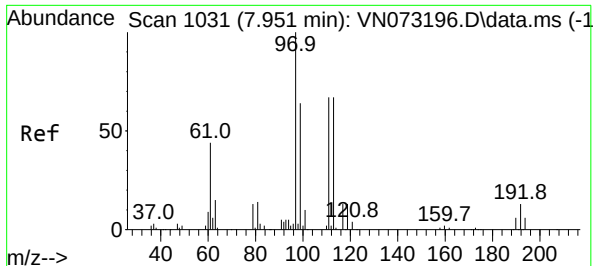
Tgt Ion: 65 Resp: 198139
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.904 min Scan# 1193
 Delta R.T. 0.006 min
 Lab File: VN073215.D
 Acq: 28 Jun 2022 22:39

Tgt Ion: 114 Resp: 529799
 Ion Ratio Lower Upper
 114 100
 63 21.2 0.0 40.0
 88 15.3 0.0 32.6





#35

Dibromofluoromethane

Concen: 17.327 ug/l

RT: 7.957 min Scan# 1032

Delta R.T. 0.006 min

Lab File: VN073215.D

Acq: 28 Jun 2022 22:39

Instrument :

MSVOA_N

ClientSampleId :

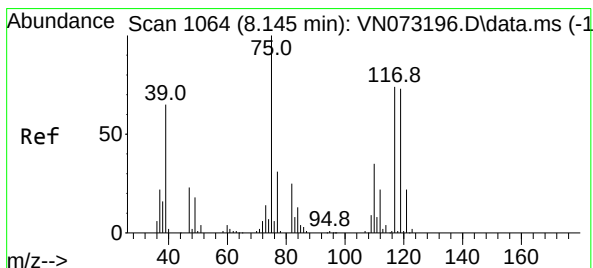
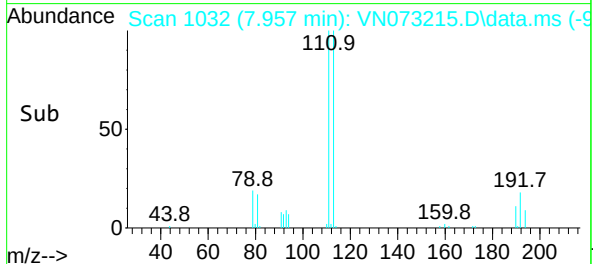
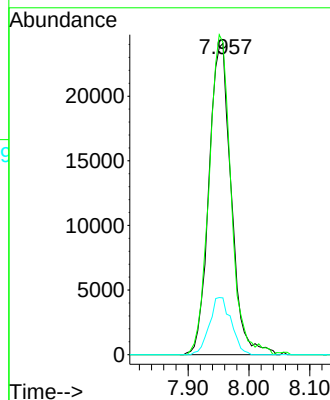
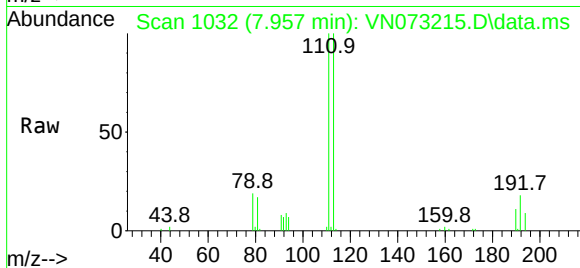
Tgt Ion:113 Resp: 61074

Ion Ratio Lower Upper

113 100

111 101.5 81.4 122.0

192 17.9 17.0 25.6



#36

1,1-Dichloropropene

Concen: 4.800 ug/l

RT: 8.016 min Scan# 1042

Delta R.T. -0.129 min

Lab File: VN073215.D

Acq: 28 Jun 2022 22:39

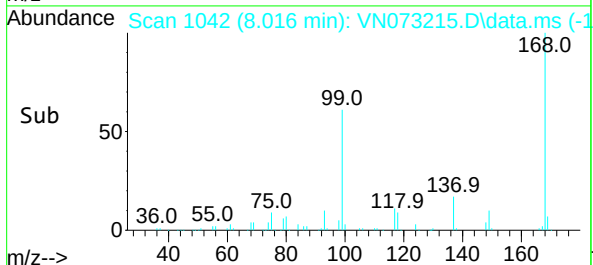
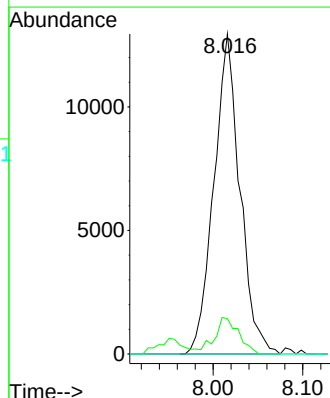
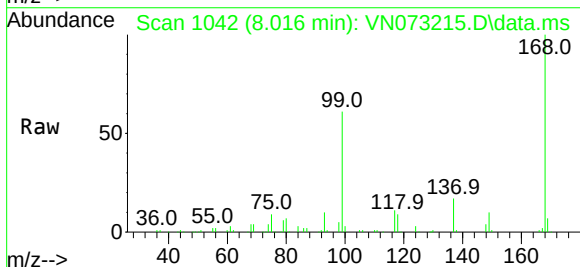
Tgt Ion: 75 Resp: 26031

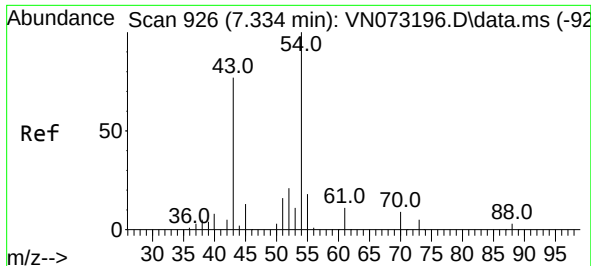
Ion Ratio Lower Upper

75 100

110 10.8 18.3 54.8#

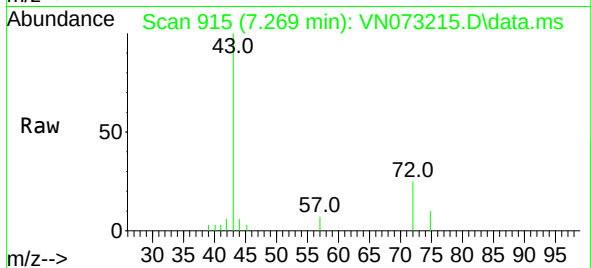
77 0.0 25.1 37.7#



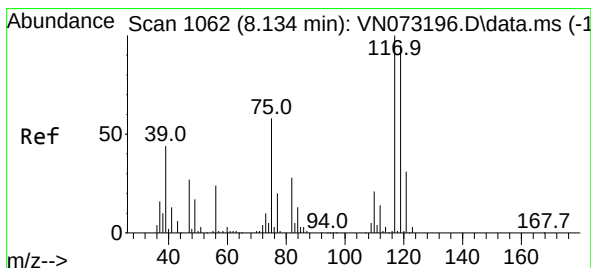
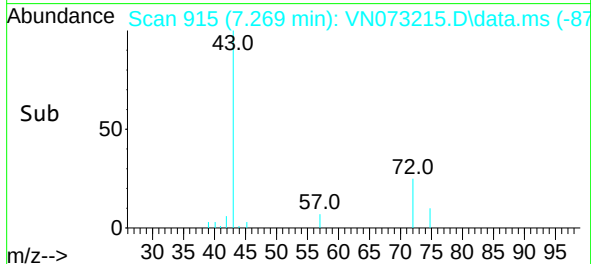
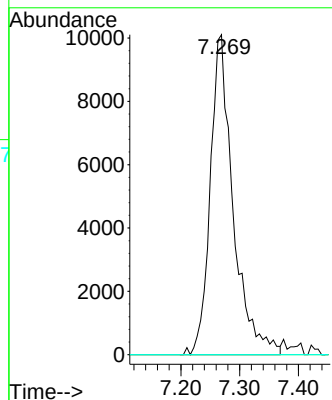


#37
Ethyl Acetate
Concen: 3.337 ug/l
RT: 7.269 min Scan# 91
Delta R.T. -0.065 min
Lab File: VN073215.D
Acq: 28 Jun 2022 22:39

Instrument :
MSVOA_N
ClientSampleId :

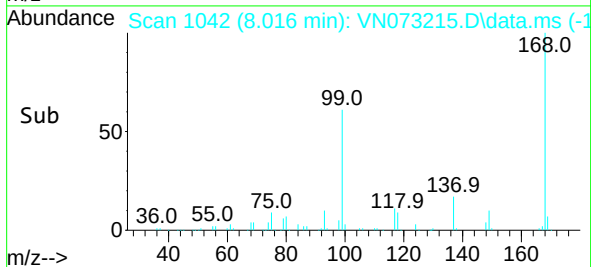
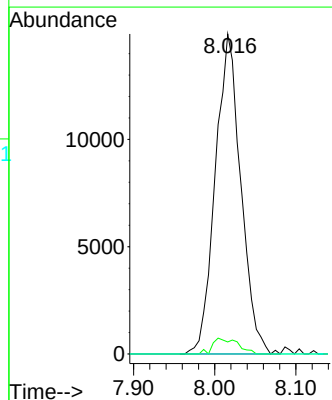
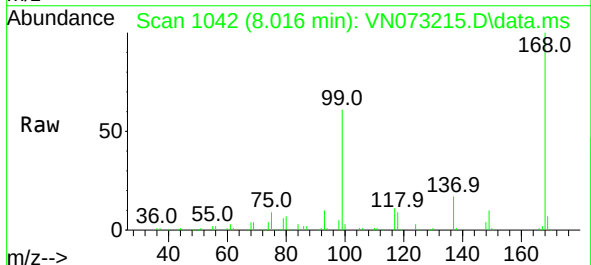


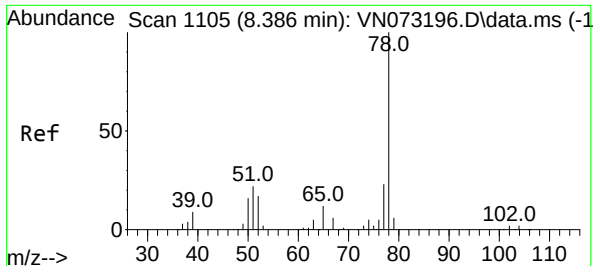
Tgt Ion: 43 Resp: 27344
Ion Ratio Lower Upper
43 100
61 0.0 11.8 17.6#
70 0.0 9.3 13.9#



#38
Carbon Tetrachloride
Concen: 5.812 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.118 min
Lab File: VN073215.D
Acq: 28 Jun 2022 22:39

Tgt Ion: 117 Resp: 32596
Ion Ratio Lower Upper
117 100
119 3.8 75.8 113.8#
121 0.0 24.6 37.0#

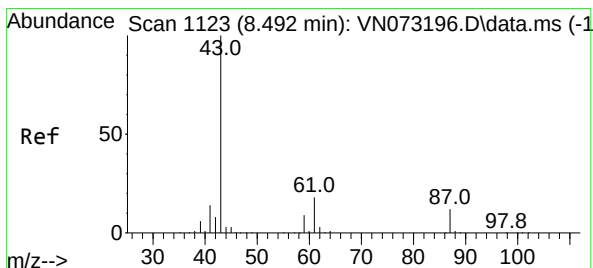
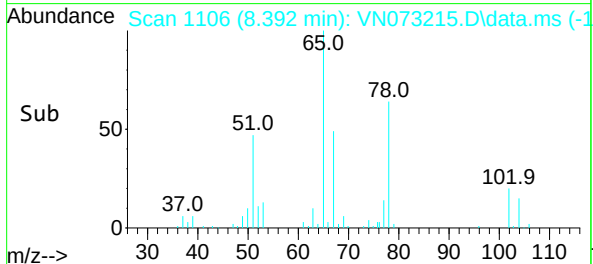
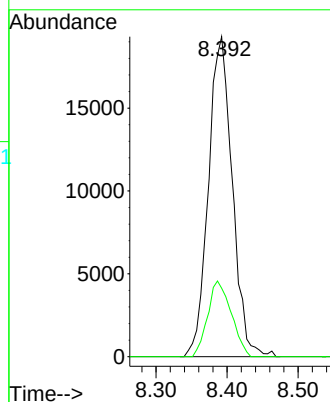
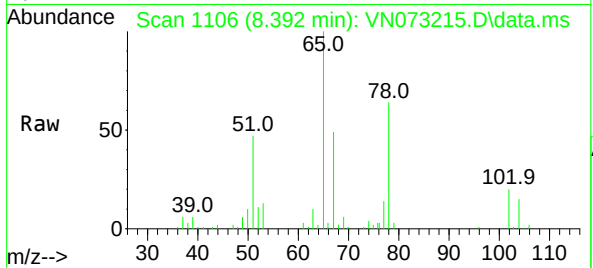




#40
Benzene
Concen: 2.695 ug/l
RT: 8.392 min Scan# 1105
Delta R.T. 0.006 min
Lab File: VN073215.D
Acq: 28 Jun 2022 22:39

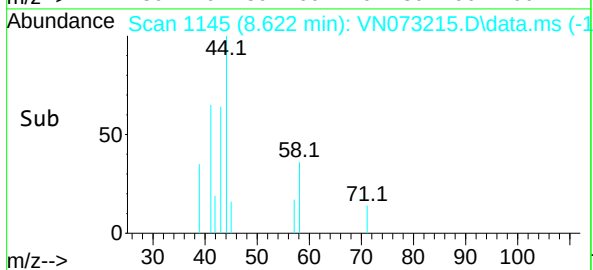
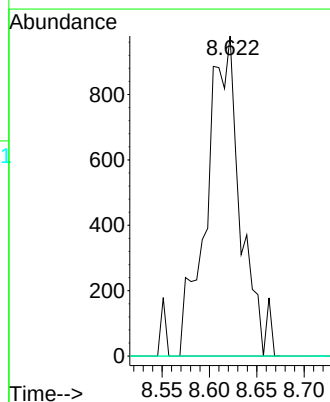
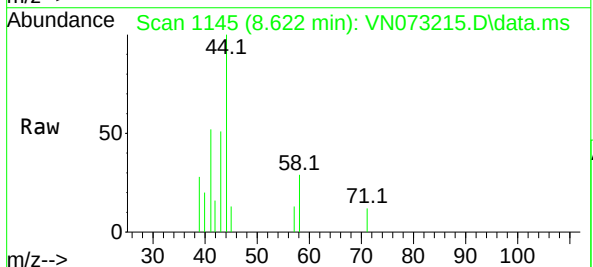
Instrument :
MSVOA_N
ClientSampleId :

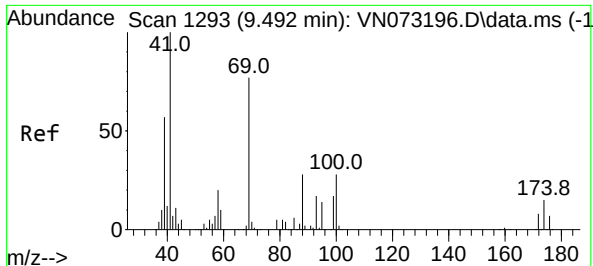
Tgt Ion: 78 Resp: 45112
Ion Ratio Lower Upper
78 100
77 21.4 19.4 29.0



#43
Isopropyl Acetate
Concen: 0.206 ug/l
RT: 8.622 min Scan# 1145
Delta R.T. 0.130 min
Lab File: VN073215.D
Acq: 28 Jun 2022 22:39

Tgt Ion: 43 Resp: 2432
Ion Ratio Lower Upper
43 100
61 0.0 21.9 32.9#
87 0.0 12.0 18.0#





#48

Methyl methacrylate

Concen: 1.156 ug/l

RT: 9.486 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN073215.D

Acq: 28 Jun 2022 22:39

Instrument :

MSVOA_N

ClientSampleId :

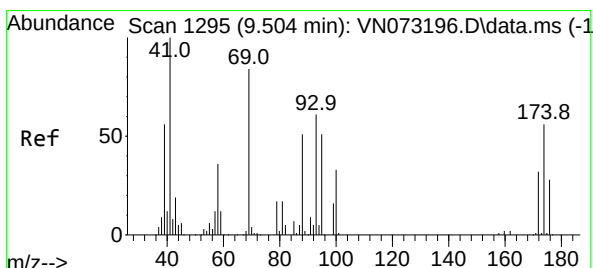
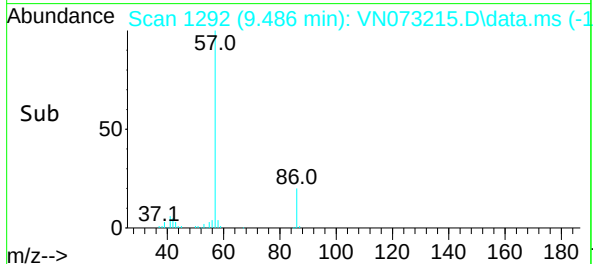
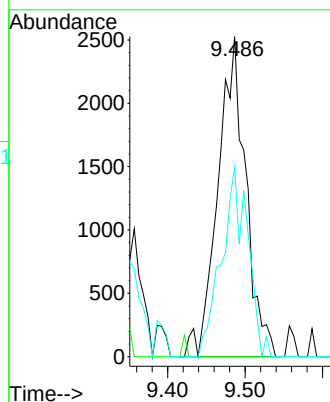
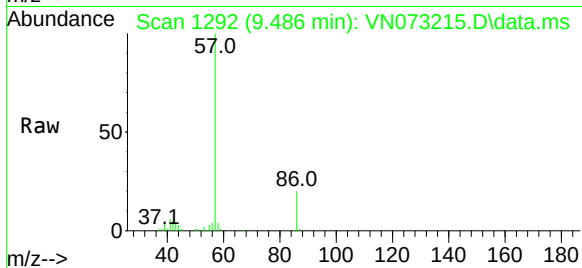
Tgt Ion: 41 Resp: 6303

Ion Ratio Lower Upper

41 100

69 0.0 74.7 112.1#

39 56.4 45.6 68.4



#49

1,4-Dioxane

Concen: 1.285 ug/l

RT: 9.498 min Scan# 1294

Delta R.T. -0.006 min

Lab File: VN073215.D

Acq: 28 Jun 2022 22:39

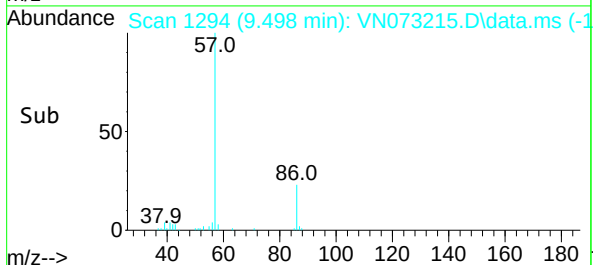
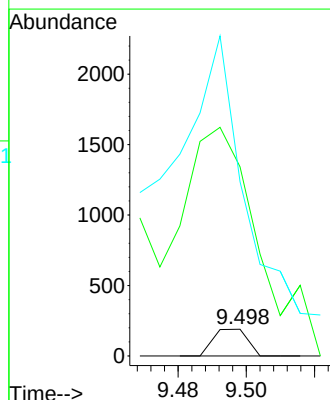
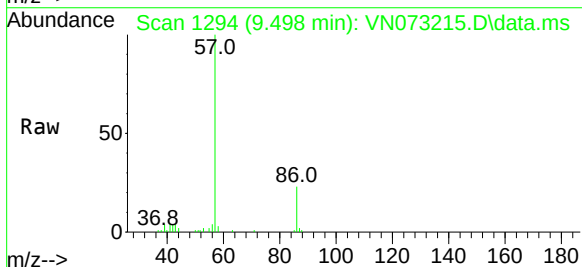
Tgt Ion: 88 Resp: 133

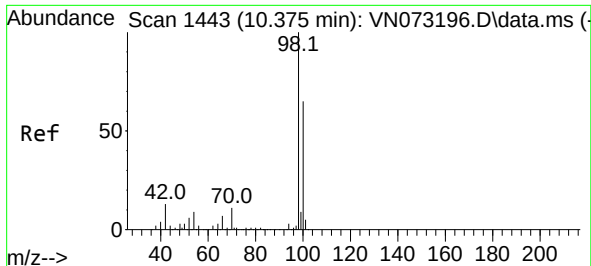
Ion Ratio Lower Upper

88 100

43 2518.0 20.2 30.4#

58 3274.4 54.2 81.4#

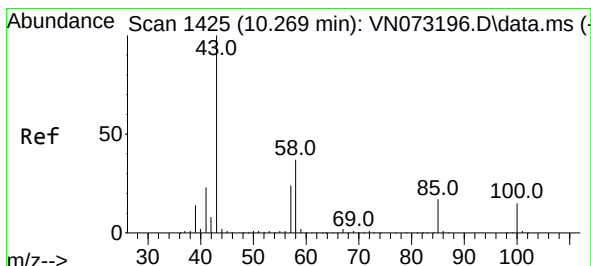
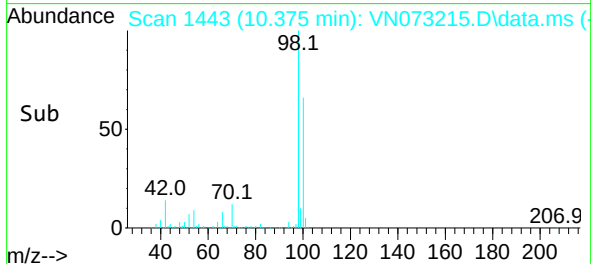
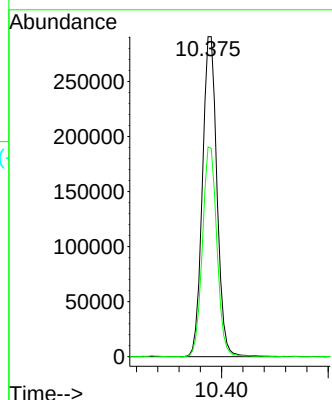
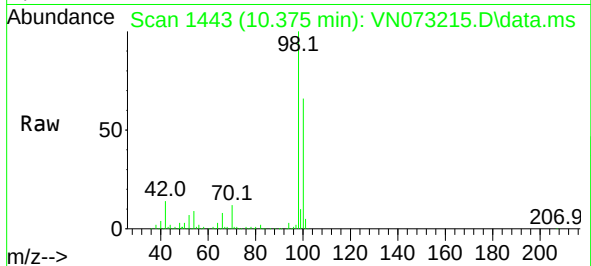




#50
Toluene-d8
Concen: 43.937 ug/l
RT: 10.375 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN073215.D
Acq: 28 Jun 2022 22:39

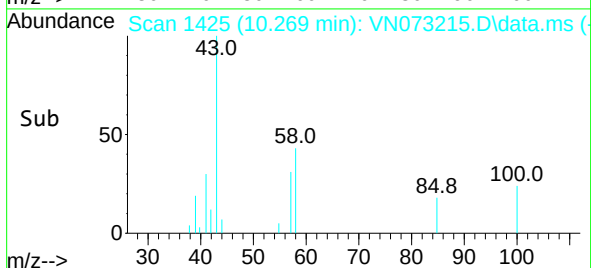
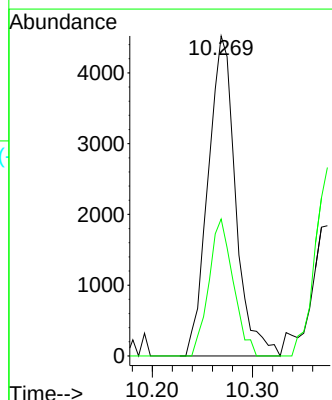
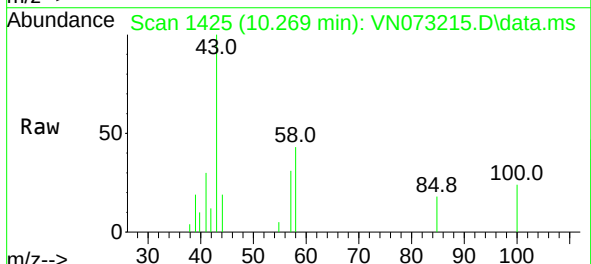
Instrument :
MSVOA_N
ClientSampleId :

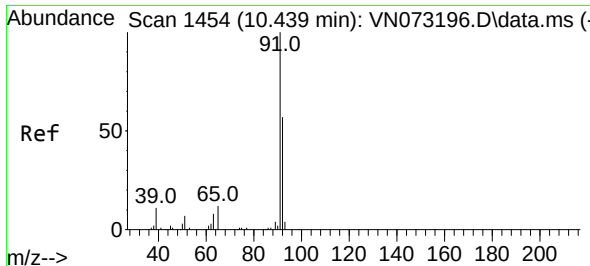
Tgt Ion: 98 Resp: 550049
Ion Ratio Lower Upper
98 100
100 65.3 52.6 78.8



#51
4-Methyl-2-Pentanone
Concen: 1.155 ug/l
RT: 10.269 min Scan# 1425
Delta R.T. -0.000 min
Lab File: VN073215.D
Acq: 28 Jun 2022 22:39

Tgt Ion: 43 Resp: 8629
Ion Ratio Lower Upper
43 100
58 37.9 34.1 51.1

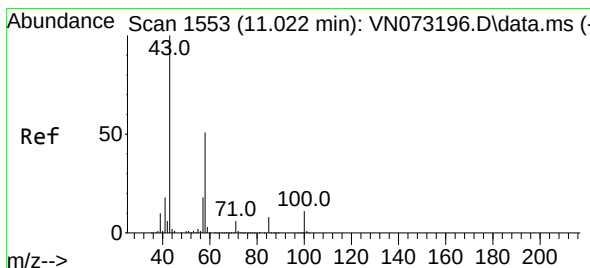
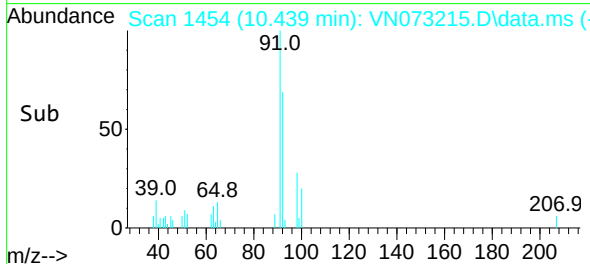
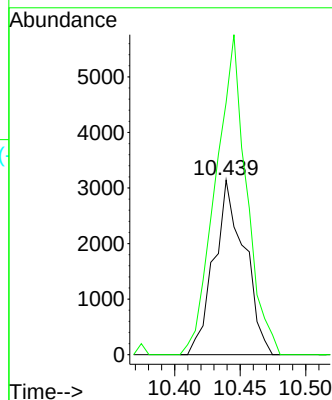
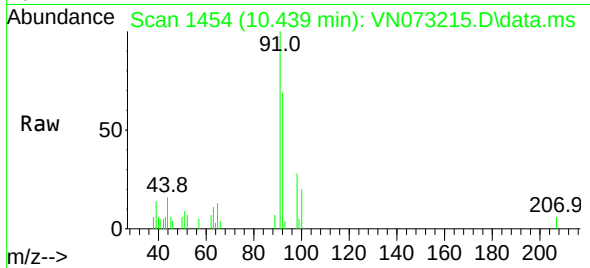




#52
Toluene
Concen: 0.492 ug/l
RT: 10.439 min Scan# 1454
Delta R.T. 0.000 min
Lab File: VN073215.D
Acq: 28 Jun 2022 22:39

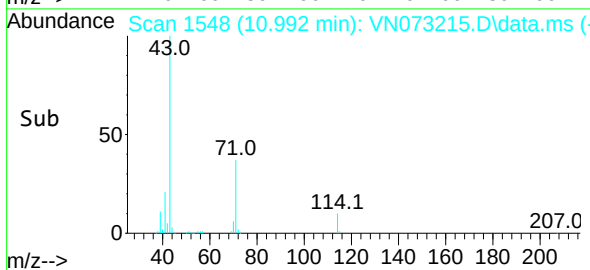
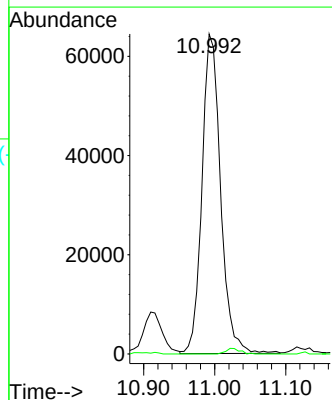
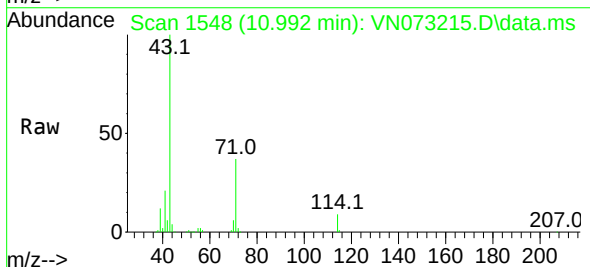
Instrument :
MSVOA_N
ClientSampleId :

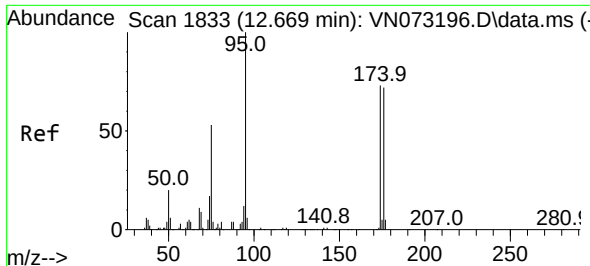
Tgt Ion: 92 Resp: 5089
Ion Ratio Lower Upper
92 100
91 185.6 138.6 207.8



#59
2-Hexanone
Concen: 20.657 ug/l
RT: 10.992 min Scan# 1548
Delta R.T. -0.030 min
Lab File: VN073215.D
Acq: 28 Jun 2022 22:39

Tgt Ion: 43 Resp: 117607
Ion Ratio Lower Upper
43 100
58 0.0 29.7 89.1#

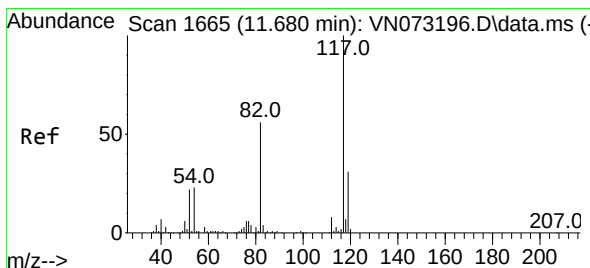
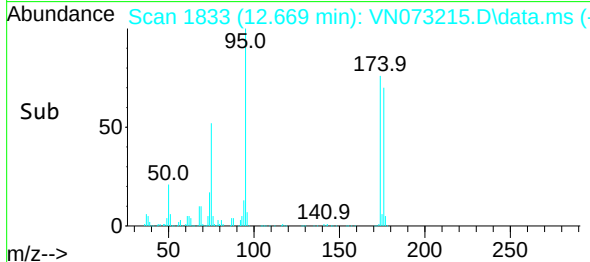
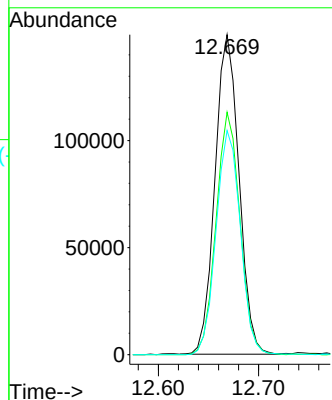
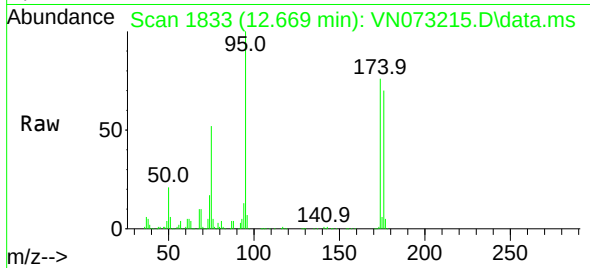




#62
4-Bromofluorobenzene
Concen: 51.609 ug/l
RT: 12.669 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN073215.D
Acq: 28 Jun 2022 22:39

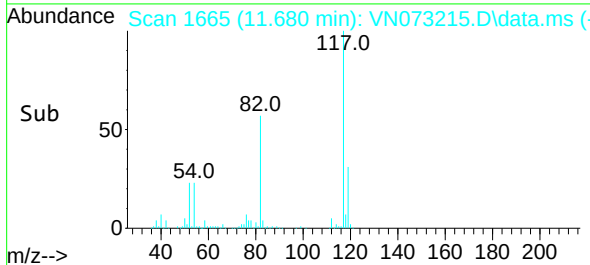
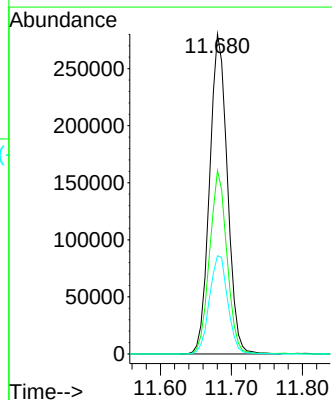
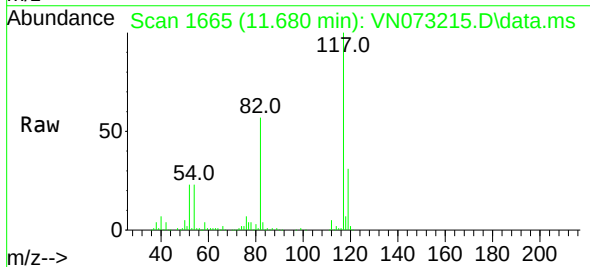
Instrument :
MSVOA_N
ClientSampleId :

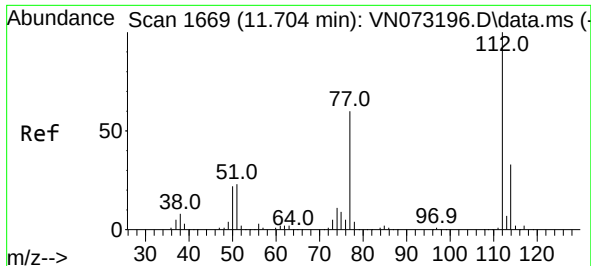
Tgt Ion: 95 Resp: 248289
Ion Ratio Lower Upper
95 100
174 75.4 0.0 167.6
176 71.1 0.0 163.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.680 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VN073215.D
Acq: 28 Jun 2022 22:39

Tgt Ion: 117 Resp: 487165
Ion Ratio Lower Upper
117 100
82 57.3 44.2 66.2
119 30.7 25.4 38.0

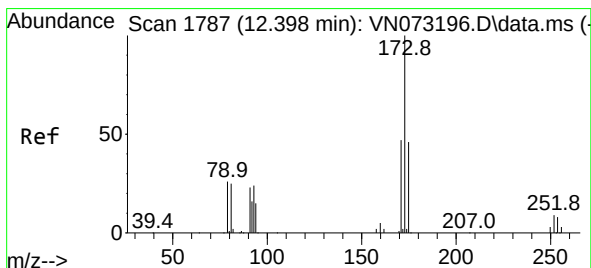
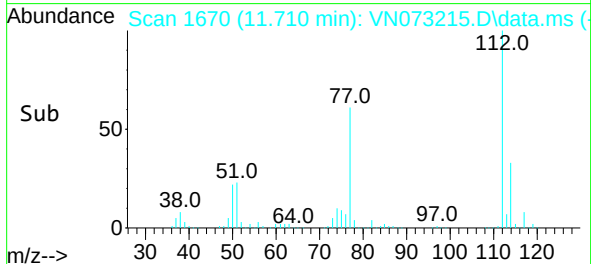
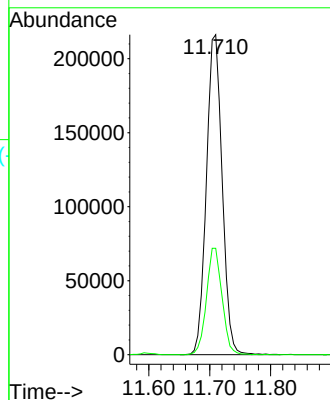
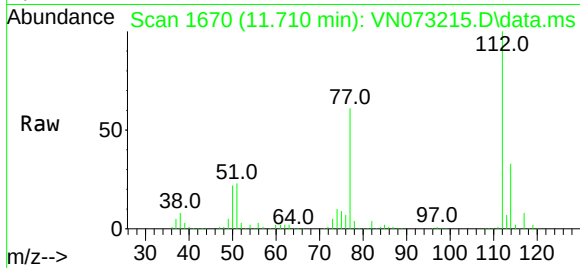




#65
Chlorobenzene
Concen: 35.330 ug/l
RT: 11.710 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN073215.D
Acq: 28 Jun 2022 22:39

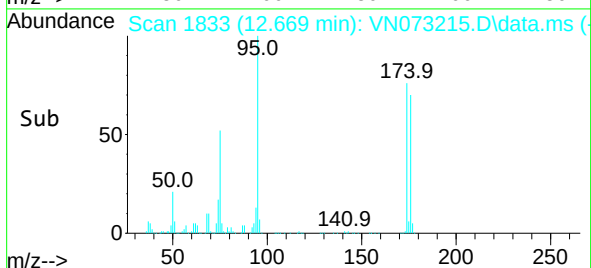
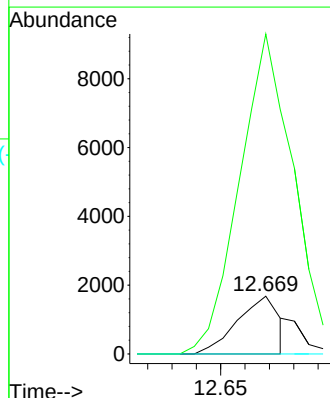
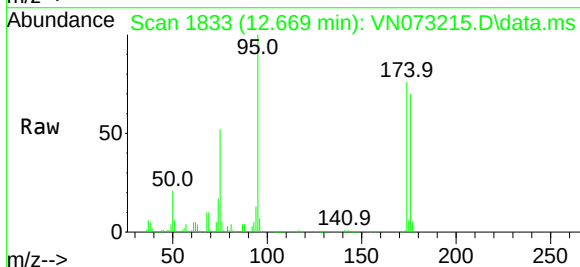
Instrument :
MSVOA_N
ClientSampleId :

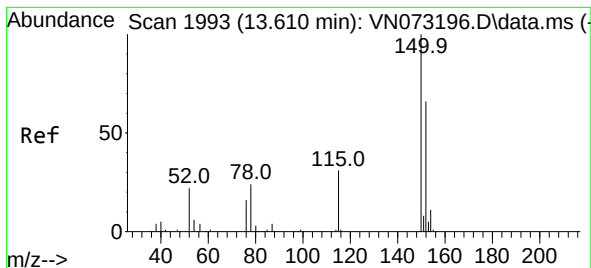
Tgt Ion:112 Resp: 389260
Ion Ratio Lower Upper
112 100
114 33.2 25.4 38.2



#71
Bromoform
Concen: 0.678 ug/l
RT: 12.669 min Scan# 1833
Delta R.T. 0.271 min
Lab File: VN073215.D
Acq: 28 Jun 2022 22:39

Tgt Ion:173 Resp: 2011
Ion Ratio Lower Upper
173 100
175 551.7 24.6 73.6#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.610 min Scan# 1993

Delta R.T. -0.000 min MSVOA_N

Lab File: VN073215.D

Acq: 28 Jun 2022 22:39

Instrument :

MSVOA_N

ClientSampleId :

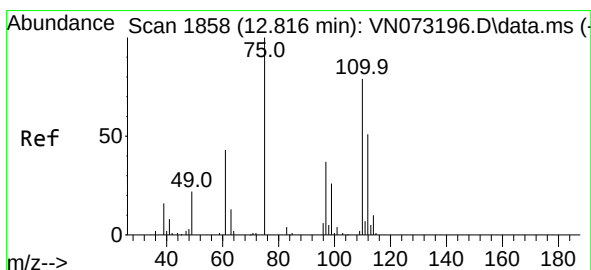
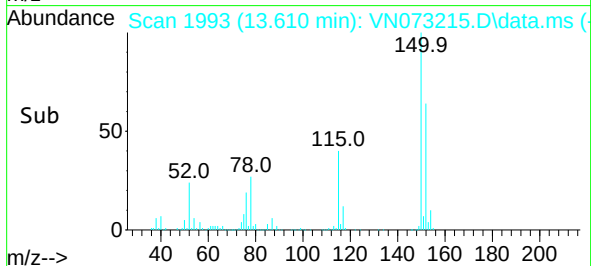
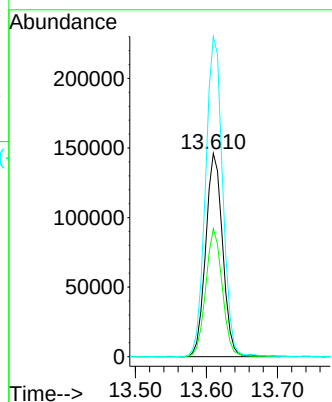
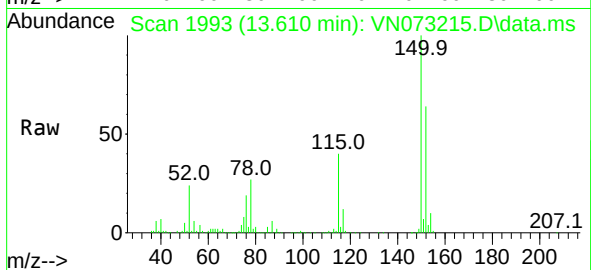
Tgt Ion:152 Resp: 242575

Ion Ratio Lower Upper

152 100

115 61.5 28.9 86.7

150 158.6 0.0 356.2



#76

1,2,3-Trichloropropane

Concen: 20.616 ug/l

RT: 12.669 min Scan# 1833

Delta R.T. -0.147 min

Lab File: VN073215.D

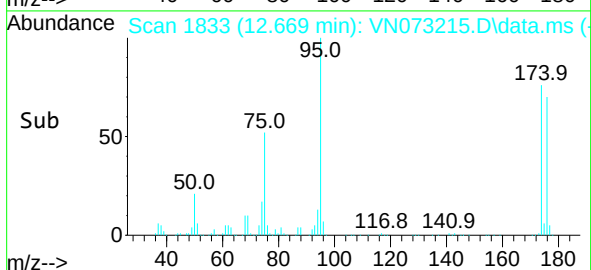
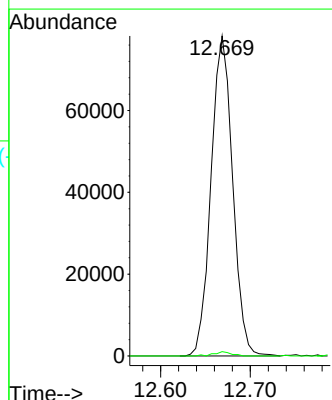
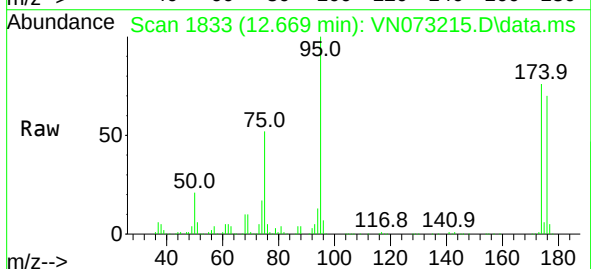
Acq: 28 Jun 2022 22:39

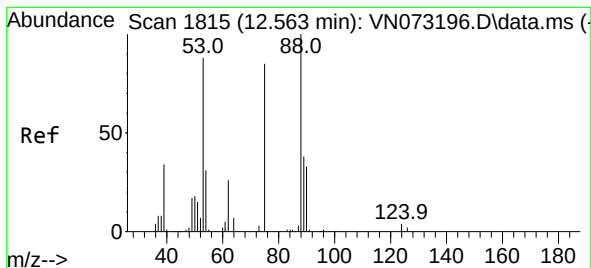
Tgt Ion: 75 Resp: 130766

Ion Ratio Lower Upper

75 100

77 1.1 98.5 295.5#

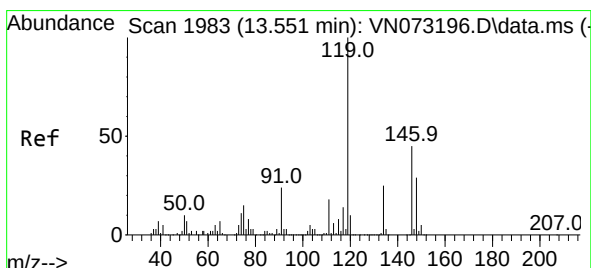
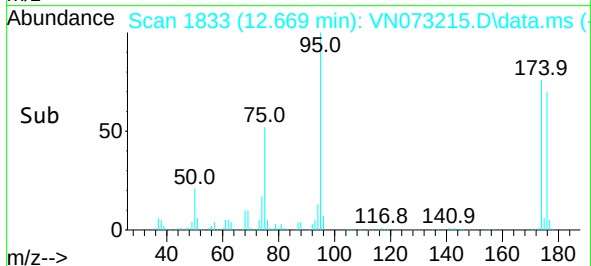
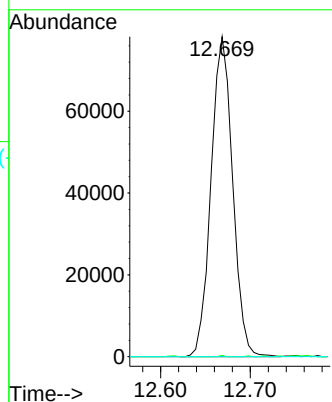
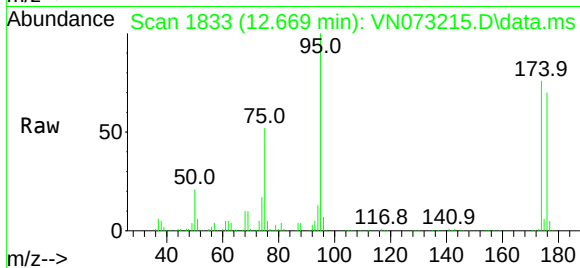




#81
trans-1,4-Dichloro-2-butene
Concen: 56.539 ug/l
RT: 12.669 min Scan# 1815
Delta R.T. 0.106 min
Lab File: VN073215.D
Acq: 28 Jun 2022 22:39

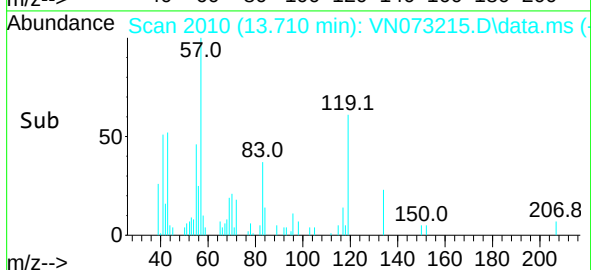
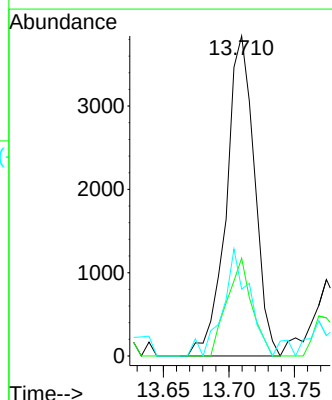
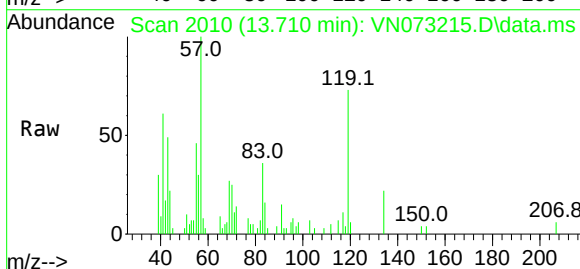
Instrument :
MSVOA_N
ClientSampleId :

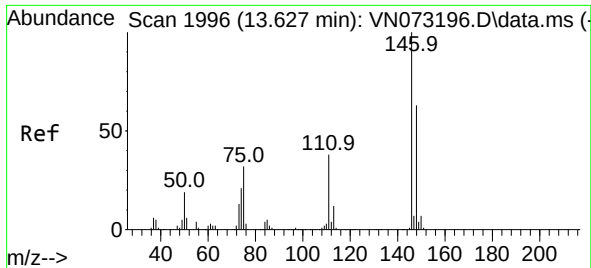
Tgt Ion: 75 Resp: 130766
Ion Ratio Lower Upper
75 100
53 0.1 78.0 117.0#
89 0.0 37.2 55.8#



#86
p-Isopropyltoluene
Concen: 0.346 ug/l
RT: 13.710 min Scan# 2010
Delta R.T. 0.159 min
Lab File: VN073215.D
Acq: 28 Jun 2022 22:39

Tgt Ion: 119 Resp: 5739
Ion Ratio Lower Upper
119 100
134 26.9 13.3 39.8
91 31.3 11.3 33.9

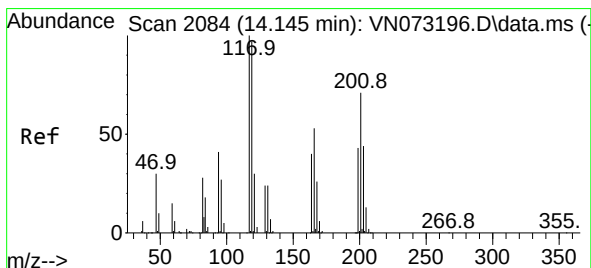
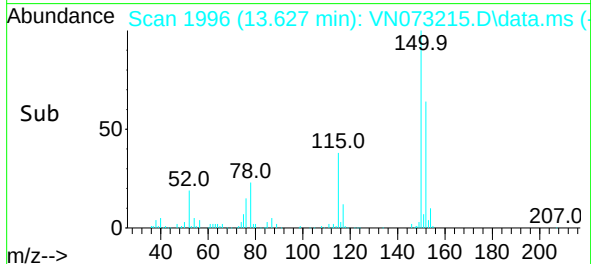
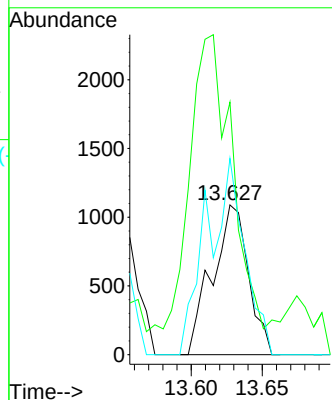
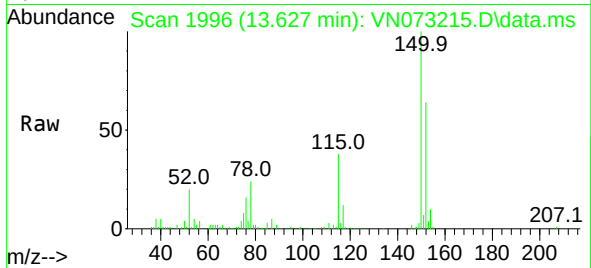




#88
 1,4-Dichlorobenzene
 Concen: 0.220 ug/l
 RT: 13.627 min Scan# 1996
 Delta R.T. 0.000 min
 Lab File: VN073215.D
 Acq: 28 Jun 2022 22:39

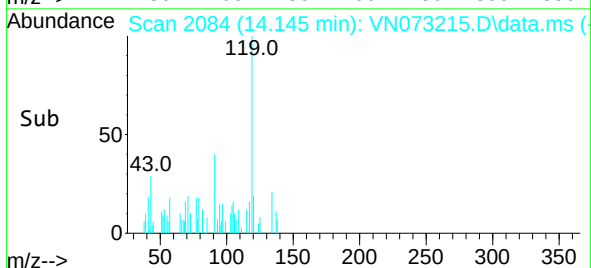
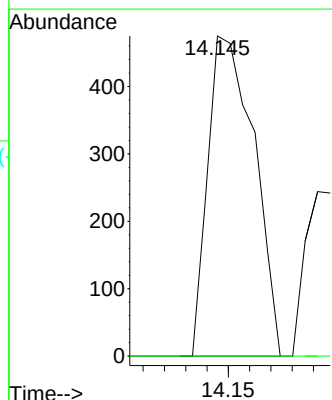
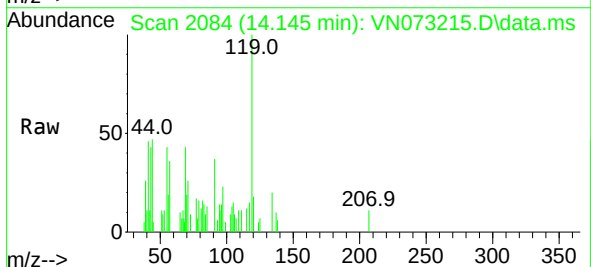
Instrument :
 MSVOA_N
 ClientSampleId :

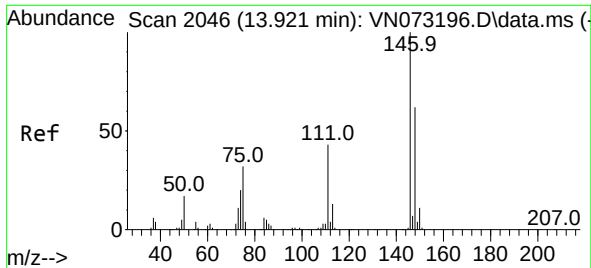
Tgt Ion:146 Resp: 1927
 Ion Ratio Lower Upper
 146 100
 111 270.4 19.1 57.1#
 148 136.6 31.4 94.3#



#90
 Hexachloroethane
 Concen: 0.231 ug/l
 RT: 14.145 min Scan# 2084
 Delta R.T. -0.000 min
 Lab File: VN073215.D
 Acq: 28 Jun 2022 22:39

Tgt Ion:117 Resp: 715
 Ion Ratio Lower Upper
 117 100
 201 0.0 40.6 122.0#

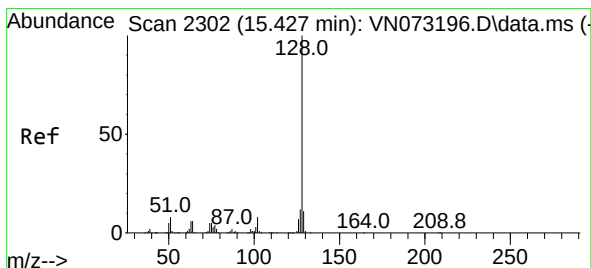
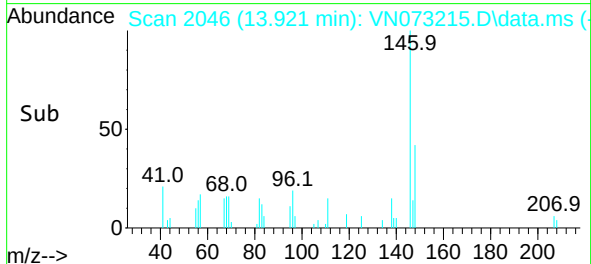
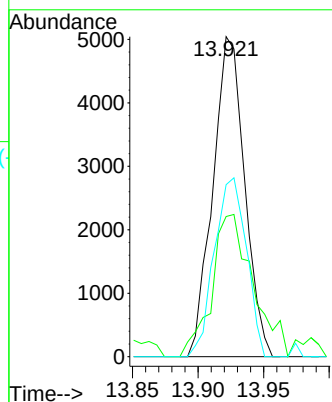
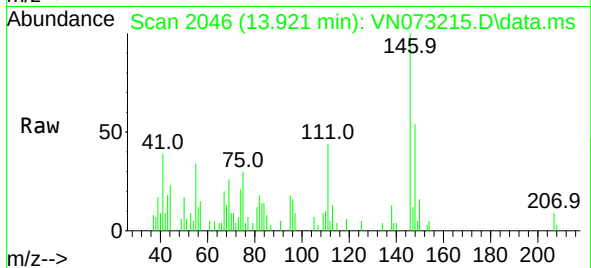




#91
1,2-Dichlorobenzene
Concen: 0.955 ug/l
RT: 13.921 min Scan# 2046
Delta R.T. 0.000 min
Lab File: VN073215.D
Acq: 28 Jun 2022 22:39

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion	Ratio	Lower	Upper
146	100		
111	57.4	20.9	62.8
148	56.5	32.1	96.3



#95
Naphthalene
Concen: 0.420 ug/l
RT: 15.433 min Scan# 2303
Delta R.T. 0.006 min
Lab File: VN073215.D
Acq: 28 Jun 2022 22:39

Tgt Ion	Ratio	Lower	Upper
128	100		
127	17.4	10.3	15.5#
129	10.4	8.6	13.0

