

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032222\
 Data File : VN071487.D
 Acq On : 23 Mar 2022 01:00
 Operator : JC\MD
 Sample : N2058-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MHA

Quant Time: Mar 23 07:13:53 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N030722W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 08 06:52:46 2022
 Response via : Initial Calibration

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

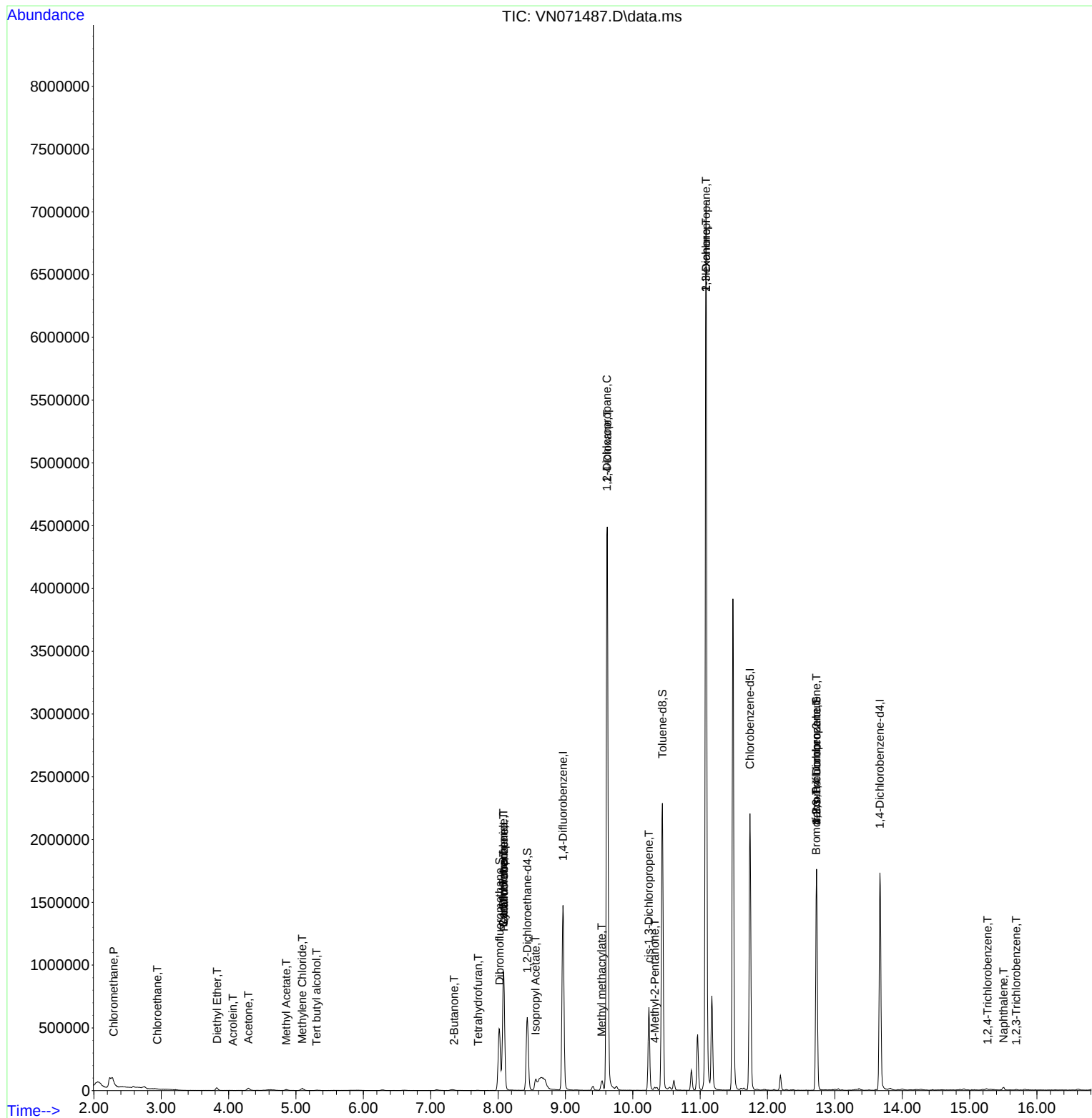
Internal Standards						
1) Pentafluorobenzene	8.087	168	725093	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.963	114	1257334	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.739	117	1243324	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.669	152	476468	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.434	65	484249	48.729	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	97.460%
35) Dibromofluoromethane	8.022	113	364727	45.969	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	91.940%
50) Toluene-d8	10.439	98	1581651	49.511	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	99.020%
62) 4-Bromofluorobenzene	12.727	95	601267	55.583	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	111.160%
Target Compounds						
					Qvalue	
3) Chloromethane	2.293	50	4519	0.389	ug/l	93
5) Bromomethane	2.822	94	56	Below Cal	#	3
6) Chloroethane	2.940	64	1755	0.298	ug/l #	71
8) Diethyl Ether	3.828	74	11860	2.162	ug/l	80
11) Tert butyl alcohol	5.304	59	1193	0.611	ug/l #	71
13) Acrolein	4.063	56	500	0.242	ug/l	89
16) Acetone	4.293	43	31485	6.511	ug/l	91
18) Methyl Acetate	4.857	43	17050	1.771	ug/l	92
20) Methylene Chloride	5.093	84	12438	1.779	ug/l	87
25) 2-Butanone	7.345	43	9540	1.225	ug/l #	75
29) Tetrahydrofuran	7.704	42	2038	0.378	ug/l #	66
31) Cyclohexane	8.081	56	15123	0.953	ug/l #	1
36) 1,1-Dichloropropene	8.081	75	58708	4.618	ug/l #	49
38) Carbon Tetrachloride	8.081	117	72107	5.864	ug/l #	16
43) Isopropyl Acetate	8.557	43	115169	4.402	ug/l #	81
45) 1,2-Dichloropropane	9.616	63	5790	0.563	ug/l #	44
48) Methyl methacrylate	9.539	41	22334	1.842	ug/l #	8
49) 1,4-Dioxane	9.622	88	615	2.918	ug/l #	1
51) 4-Methyl-2-Pentanone	10.328	43	14982	0.923	ug/l	97
54) cis-1,3-Dichloropropene	10.239	75	112898	7.329	ug/l #	61
57) 1,3-Dichloropropane	11.086	76	72066	4.248	ug/l #	43
59) 2-Hexanone	11.086	43	1132629	102.237	ug/l #	49
71) Bromoform	12.722	173	3573	0.481	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.827	83	617	Below Cal	#	52
76) 1,2,3-Trichloropropane	12.727	75	313447	25.776	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.727	75	313447	71.114	ug/l #	5
93) 1,2,4-Trichlorobenzene	15.268	180	2149	3.248	ug/l	83
95) Naphthalene	15.504	128	20342	5.904	ug/l	99
96) 1,2,3-Trichlorobenzene	15.692	180	1771	2.956	ug/l #	83

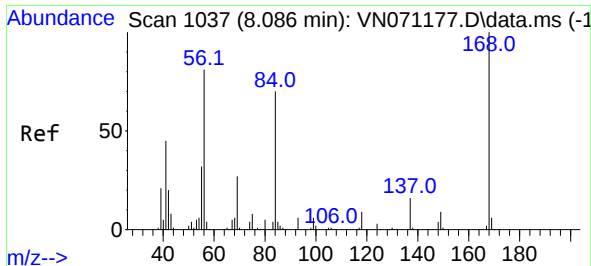
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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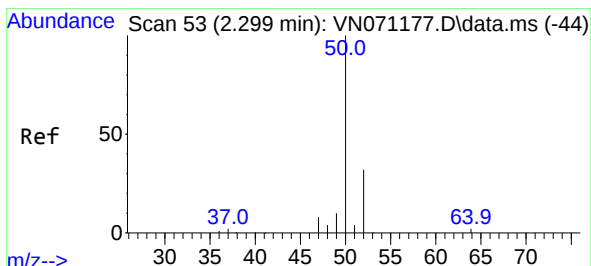
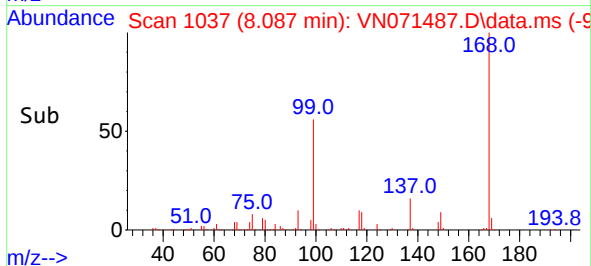
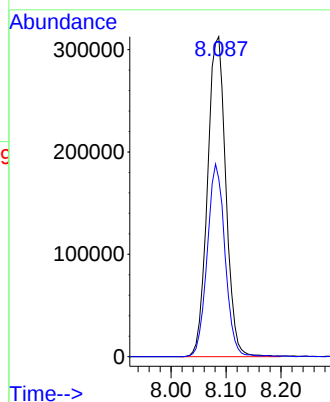
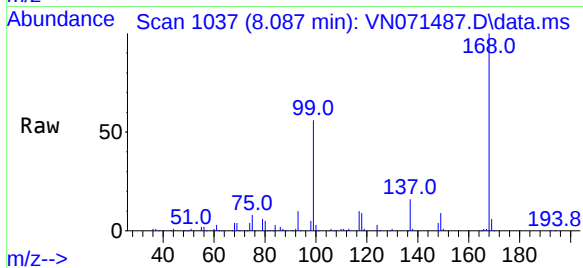




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.087 min Scan# 10
Delta R.T. 0.001 min
Lab File: VN071487.D
Acq: 23 Mar 2022 01:00

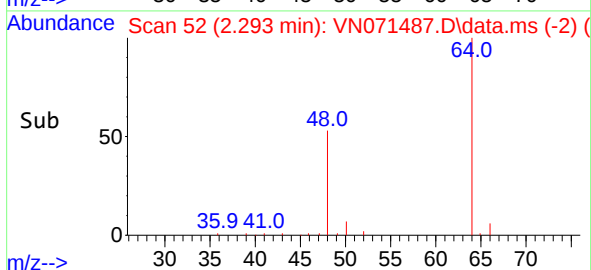
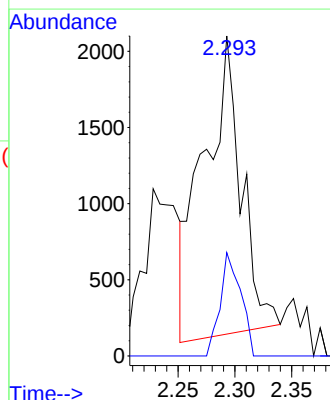
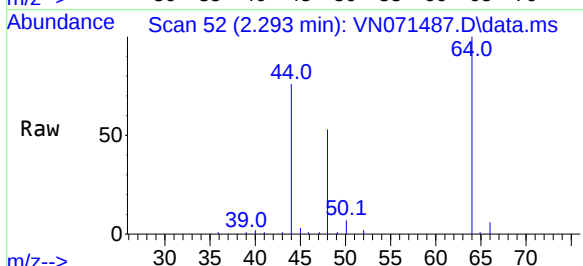
Instrument :
MSVOA_N
ClientSampleId :
MHA

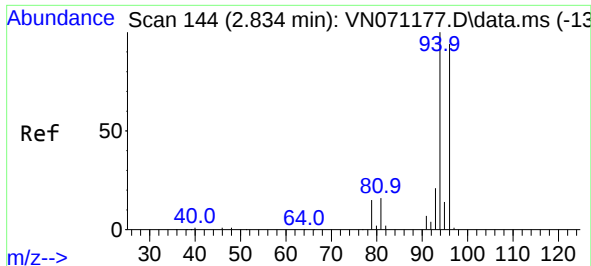
Tgt Ion:168 Resp: 725093
Ion Ratio Lower Upper
168 100
99 55.6 41.3 61.9



#3
Chloromethane
Concen: 0.389 ug/l
RT: 2.293 min Scan# 52
Delta R.T. -0.006 min
Lab File: VN071487.D
Acq: 23 Mar 2022 01:00

Tgt Ion: 50 Resp: 4519
Ion Ratio Lower Upper
50 100
52 35.9 25.4 38.0

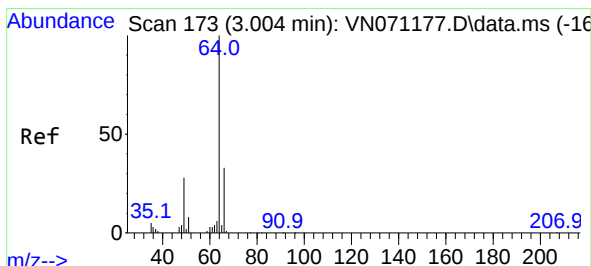
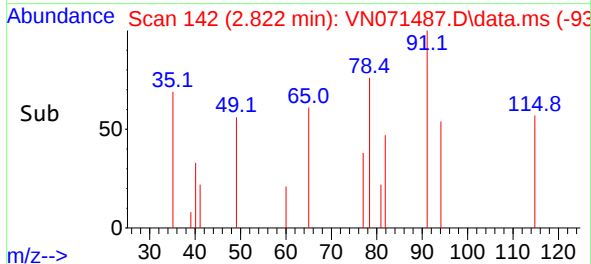
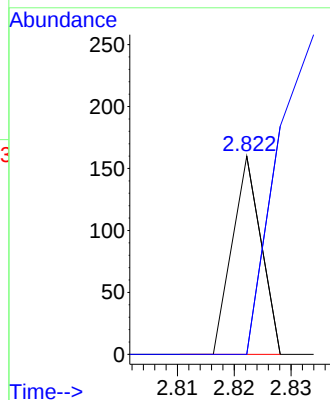
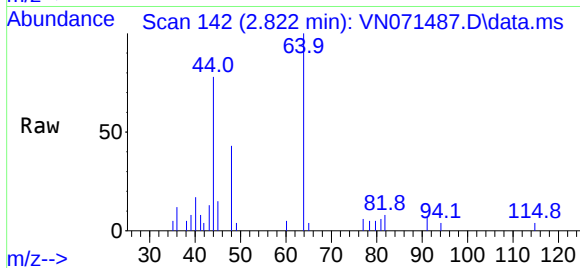




#5
Bromomethane
Concen: Below Cal
RT: 2.822 min Scan# 144
Delta R.T. -0.012 min
Lab File: VN071487.D
Acq: 23 Mar 2022 01:00

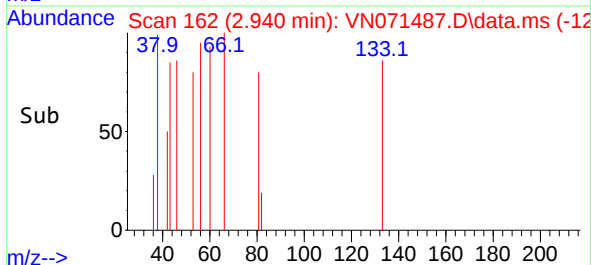
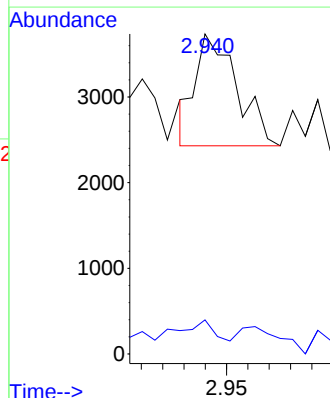
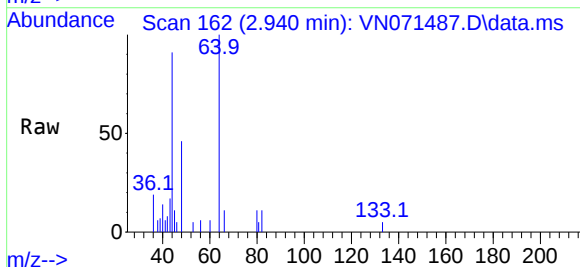
Instrument :
MSVOA_N
ClientSampleId :
MHA

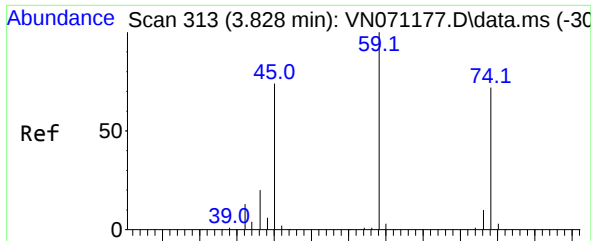
Tgt Ion: 94 Resp: 56
Ion Ratio Lower Upper
94 100
96 0.0 73.8 110.8#



#6
Chloroethane
Concen: 0.298 ug/l
RT: 2.940 min Scan# 162
Delta R.T. -0.064 min
Lab File: VN071487.D
Acq: 23 Mar 2022 01:00

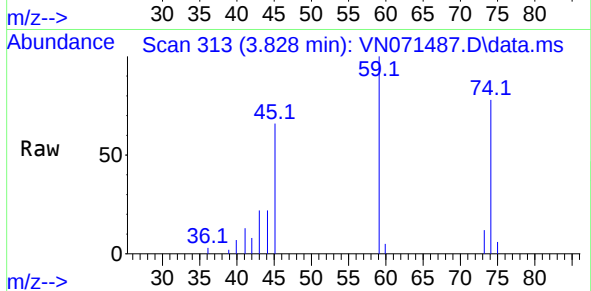
Tgt Ion: 64 Resp: 1755
Ion Ratio Lower Upper
64 100
66 16.6 26.3 39.5#



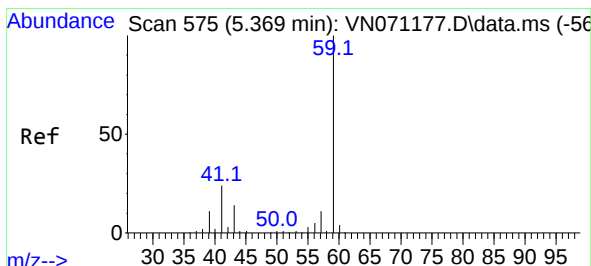
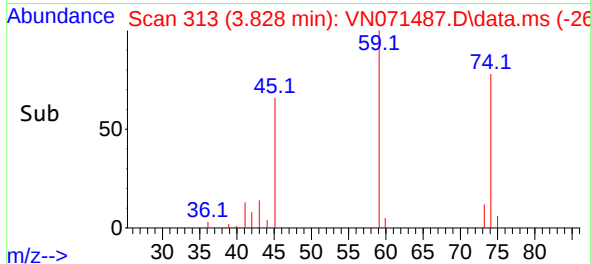
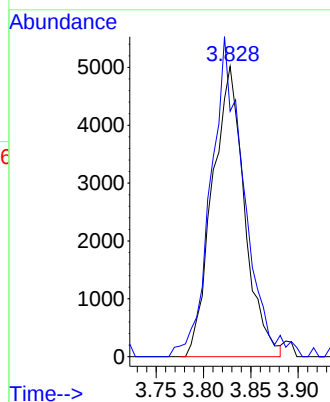


#8
Diethyl Ether
Concen: 2.162 ug/l
RT: 3.828 min Scan# 313
Delta R.T. 0.000 min
Lab File: VN071487.D
Acq: 23 Mar 2022 01:00

Instrument :
MSVOA_N
ClientSampleId :
MHA

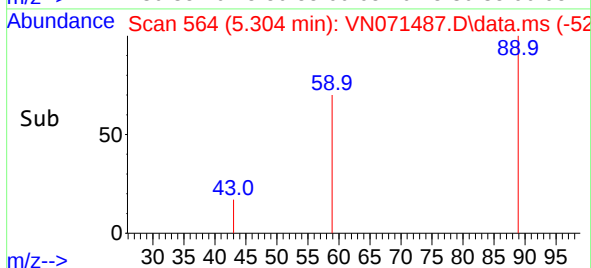
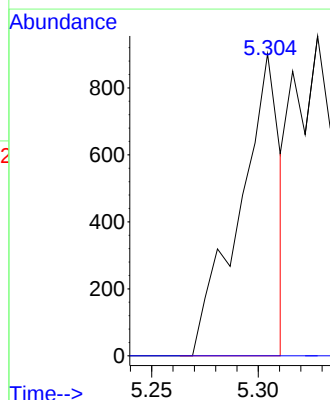
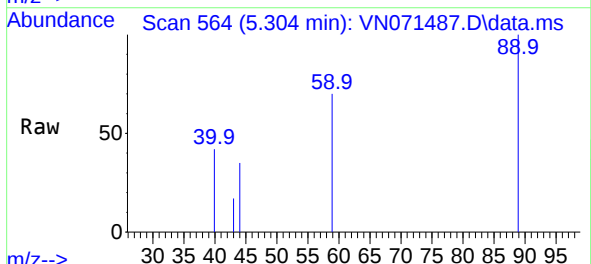


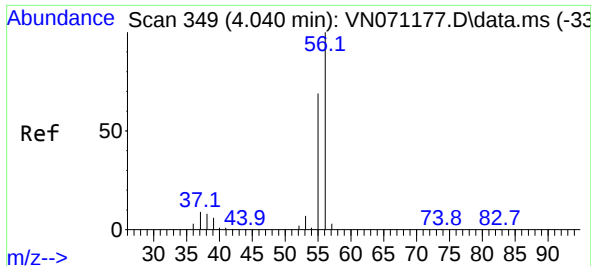
Tgt Ion: 74 Resp: 11860
Ion Ratio Lower Upper
74 100
45 113.7 47.0 141.2



#11
Tert butyl alcohol
Concen: 0.611 ug/l
RT: 5.304 min Scan# 564
Delta R.T. -0.065 min
Lab File: VN071487.D
Acq: 23 Mar 2022 01:00

Tgt Ion: 59 Resp: 1193
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#

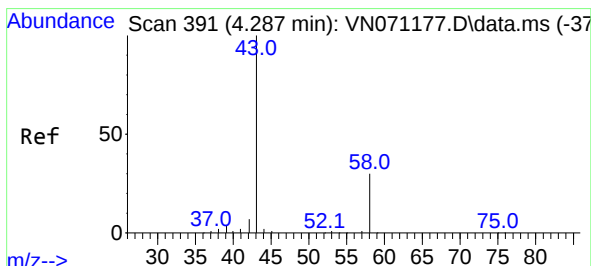
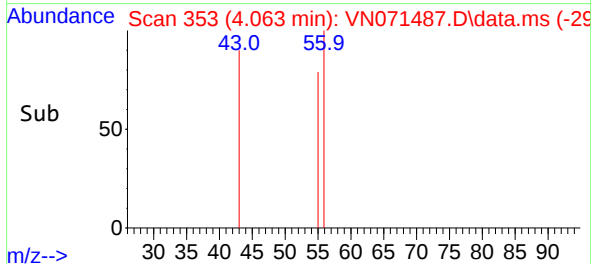
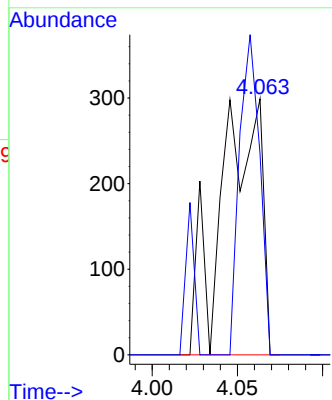
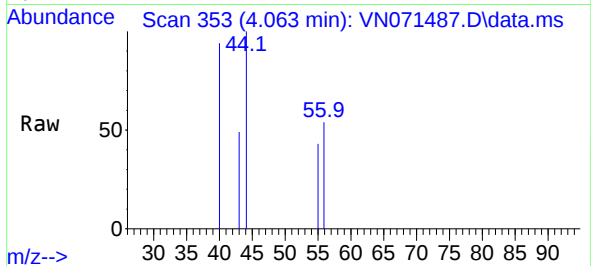




#13
Acrolein
Concen: 0.242 ug/l
RT: 4.063 min Scan# 31
Delta R.T. 0.024 min
Lab File: VN071487.D
Acq: 23 Mar 2022 01:00

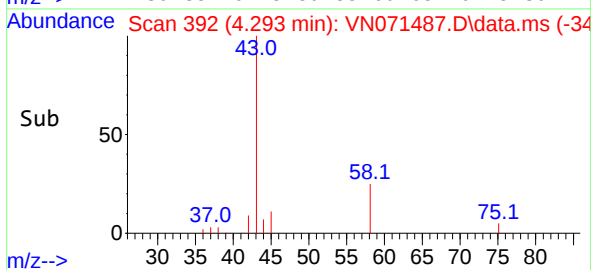
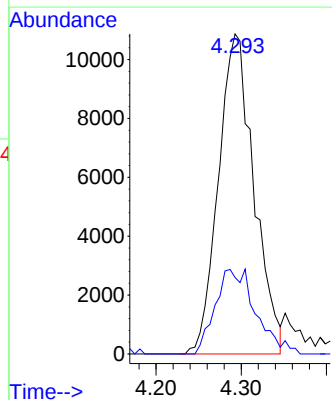
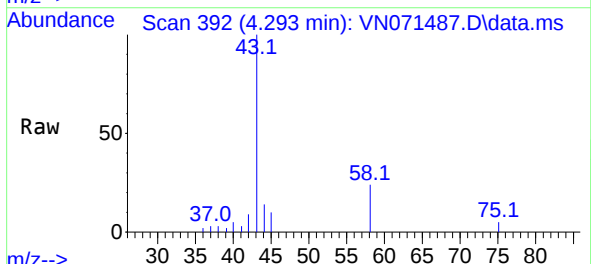
Instrument :
MSVOA_N
ClientSampleId :
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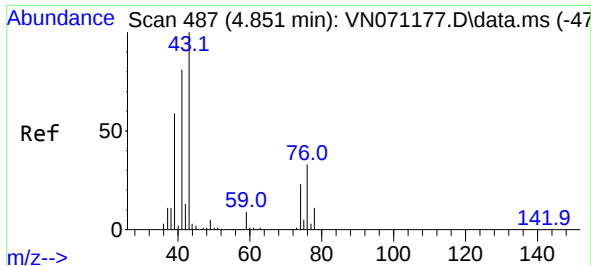
Tgt Ion: 56 Resp: 500
Ion Ratio Lower Upper
56 100
55 61.4 56.6 85.0



#16
Acetone
Concen: 6.511 ug/l
RT: 4.293 min Scan# 392
Delta R.T. 0.006 min
Lab File: VN071487.D
Acq: 23 Mar 2022 01:00

Tgt Ion: 43 Resp: 31485
Ion Ratio Lower Upper
43 100
58 23.9 23.1 34.7

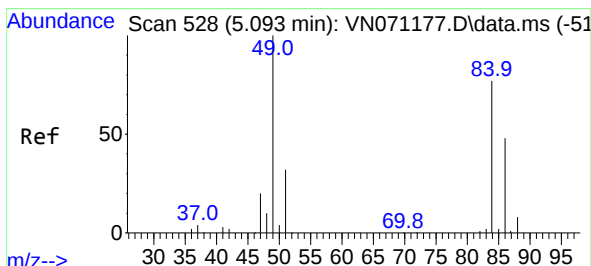
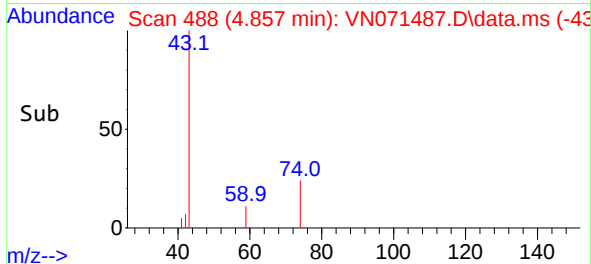
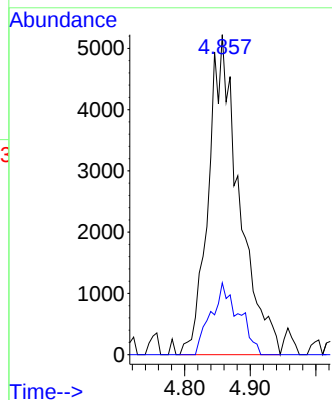
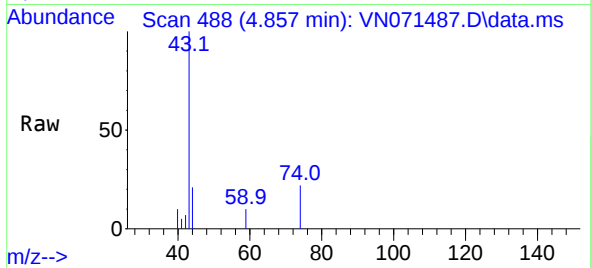




#18
Methyl Acetate
Concen: 1.771 ug/l
RT: 4.857 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN071487.D
Acq: 23 Mar 2022 01:00

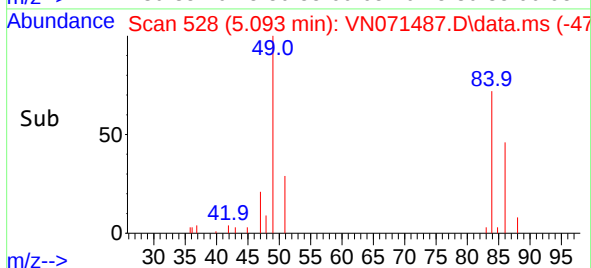
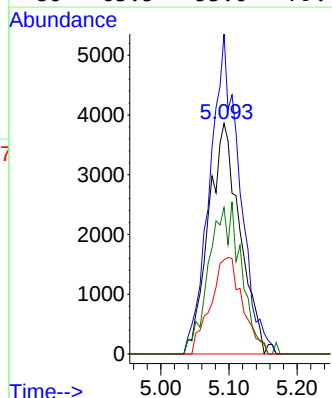
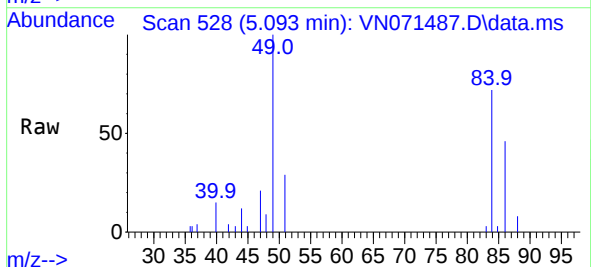
Instrument :
MSVOA_N
ClientSampleId :
MHA

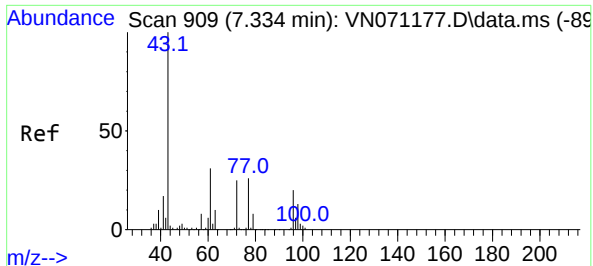
Tgt Ion: 43 Resp: 17050
Ion Ratio Lower Upper
43 100
74 20.2 19.4 29.2



#20
Methylene Chloride
Concen: 1.779 ug/l
RT: 5.093 min Scan# 528
Delta R.T. -0.000 min
Lab File: VN071487.D
Acq: 23 Mar 2022 01:00

Tgt Ion: 84 Resp: 12438
Ion Ratio Lower Upper
84 100
49 138.8 93.5 140.3
51 40.8 29.4 44.2
86 63.5 53.0 79.4





#25

2-Butanone

Concen: 1.225 ug/l

RT: 7.345 min Scan# 911

Delta R.T. 0.012 min

Lab File: VN071487.D

Acq: 23 Mar 2022 01:00

Instrument :

MSVOA_N

ClientSampleId :

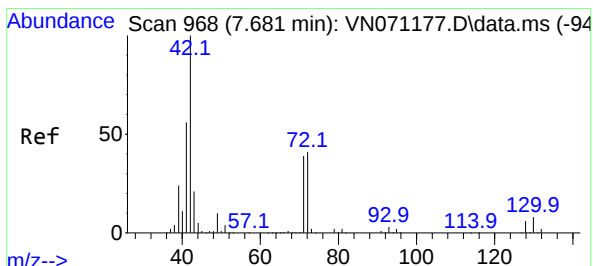
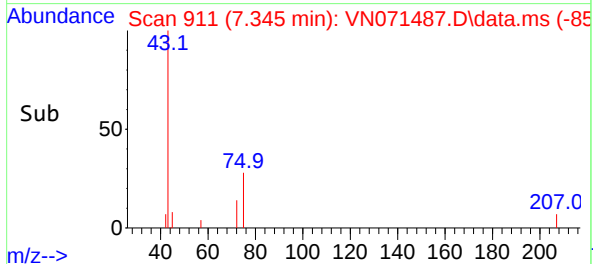
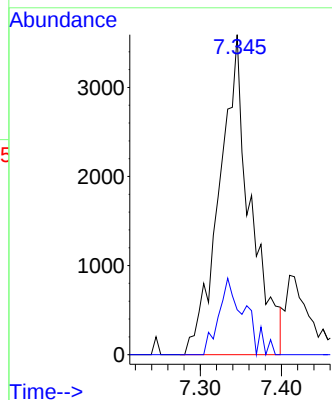
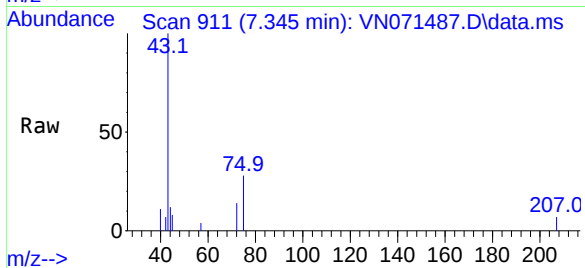
MHA

Tgt Ion: 43 Resp: 9540

Ion Ratio Lower Upper

43 100

72 14.1 21.7 32.5#



#29

Tetrahydrofuran

Concen: 0.378 ug/l

RT: 7.704 min Scan# 972

Delta R.T. 0.024 min

Lab File: VN071487.D

Acq: 23 Mar 2022 01:00

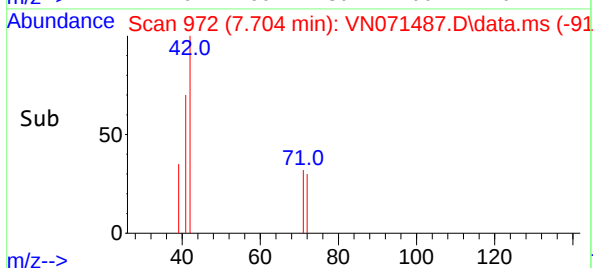
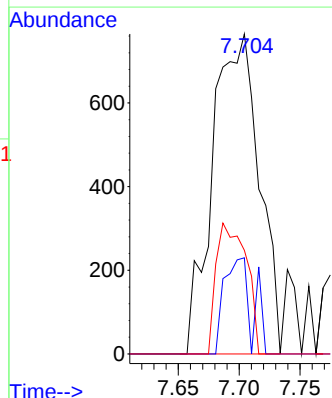
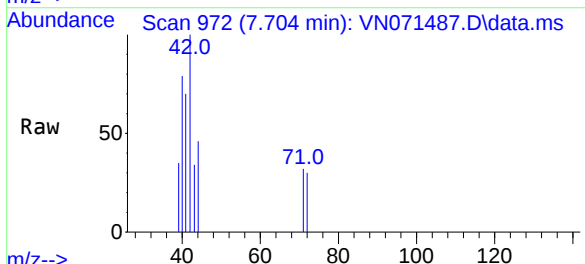
Tgt Ion: 42 Resp: 2038

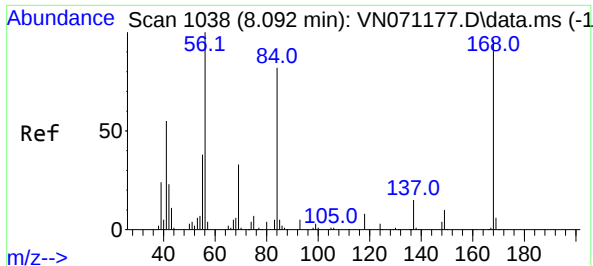
Ion Ratio Lower Upper

42 100

72 17.9 36.3 54.5#

71 26.3 34.7 52.1#





#31

Cyclohexane

Concen: 0.953 ug/l

RT: 8.081 min Scan# 1036

Delta R.T. -0.012 min

Lab File: VN071487.D

Acq: 23 Mar 2022 01:00

Instrument :

MSVOA_N

ClientSampleId :

MHA

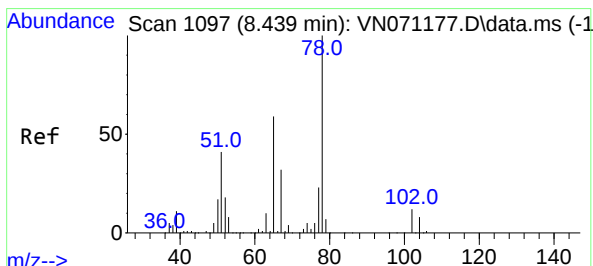
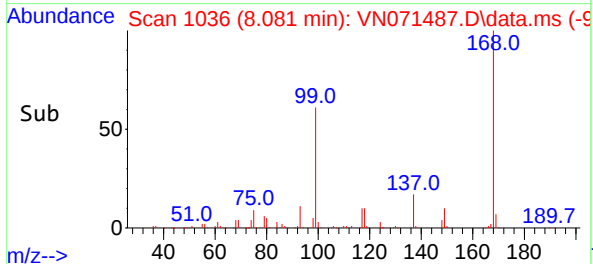
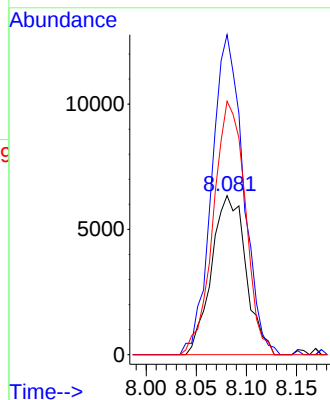
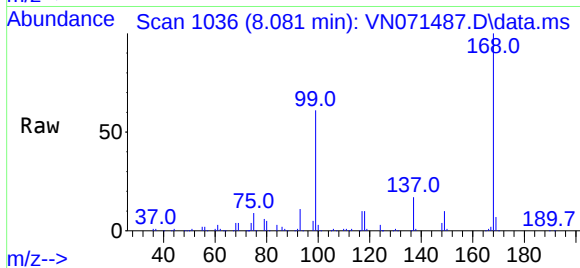
Tgt Ion: 56 Resp: 15123

Ion Ratio Lower Upper

56 100

69 201.3 27.1 40.7#

84 159.4 73.4 110.0#



#33

1,2-Dichloroethane-d4

Concen: 48.729 ug/l

RT: 8.434 min Scan# 1096

Delta R.T. -0.006 min

Lab File: VN071487.D

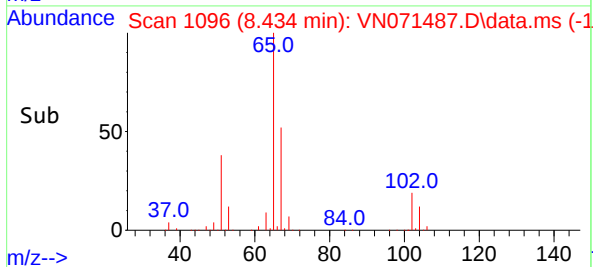
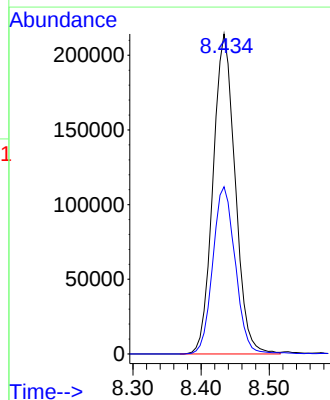
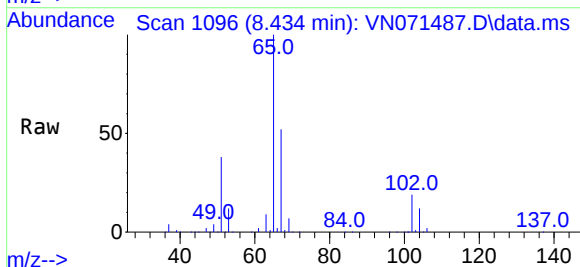
Acq: 23 Mar 2022 01:00

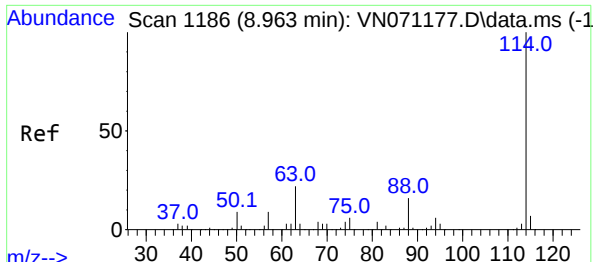
Tgt Ion: 65 Resp: 484249

Ion Ratio Lower Upper

65 100

67 53.1 0.0 103.0

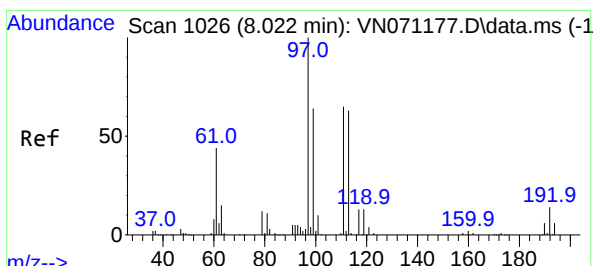
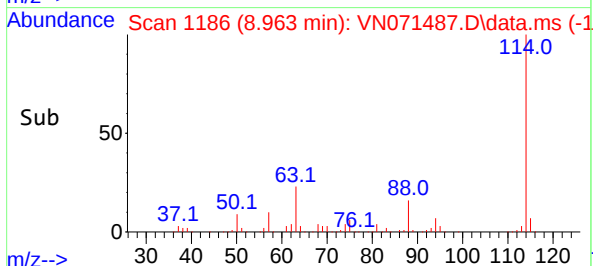
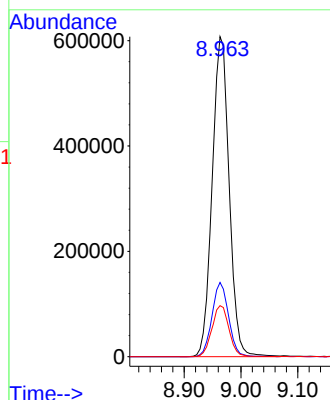
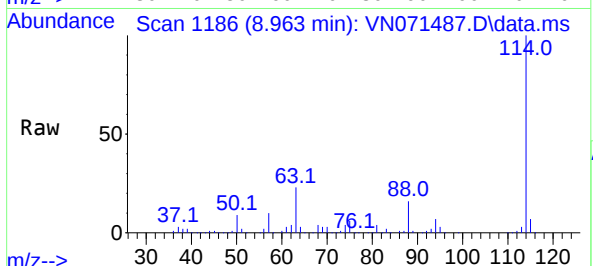




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.963 min Scan# 1186
Delta R.T. -0.000 min
Lab File: VN071487.D
Acq: 23 Mar 2022 01:00

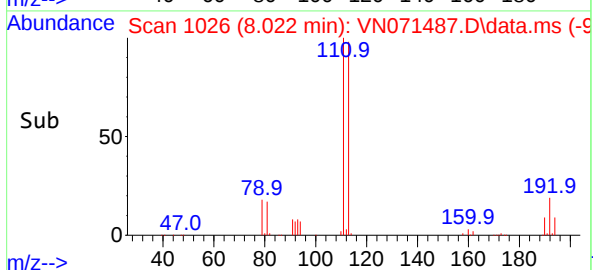
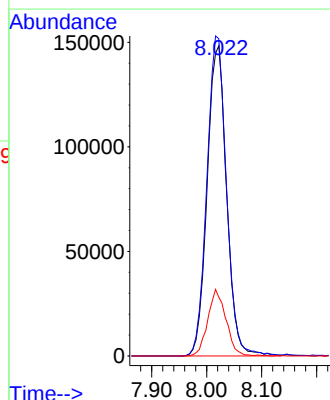
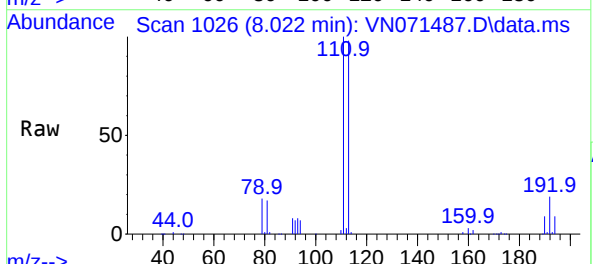
Instrument :
MSVOA_N
ClientSampleId :
MHA

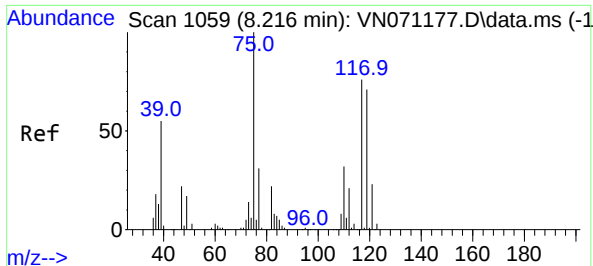
Tgt Ion:114 Resp: 1257334
Ion Ratio Lower Upper
114 100
63 23.2 0.0 37.8
88 15.9 0.0 27.4



#35
Dibromofluoromethane
Concen: 45.969 ug/l
RT: 8.022 min Scan# 1026
Delta R.T. 0.000 min
Lab File: VN071487.D
Acq: 23 Mar 2022 01:00

Tgt Ion:113 Resp: 364727
Ion Ratio Lower Upper
113 100
111 103.8 82.2 123.2
192 20.0 16.9 25.3





#36

1,1-Dichloropropene

Concen: 4.618 ug/l

RT: 8.081 min Scan# 1036

Delta R.T. -0.135 min

Lab File: VN071487.D

Acq: 23 Mar 2022 01:00

Instrument :

MSVOA_N

ClientSampleId :

MHA

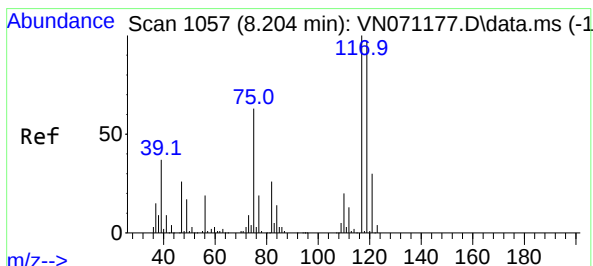
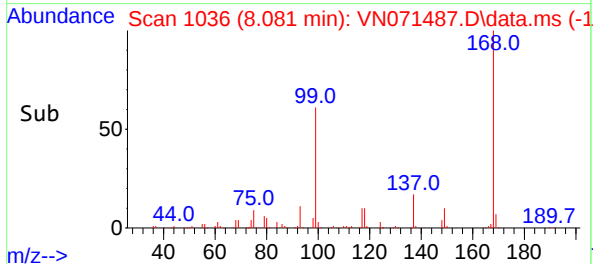
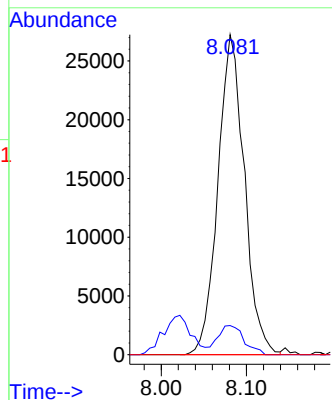
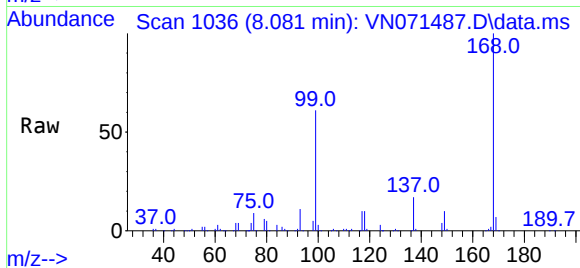
Tgt Ion: 75 Resp: 58708

Ion Ratio Lower Upper

75 100

110 9.2 18.4 55.2#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 5.864 ug/l

RT: 8.081 min Scan# 1036

Delta R.T. -0.123 min

Lab File: VN071487.D

Acq: 23 Mar 2022 01:00

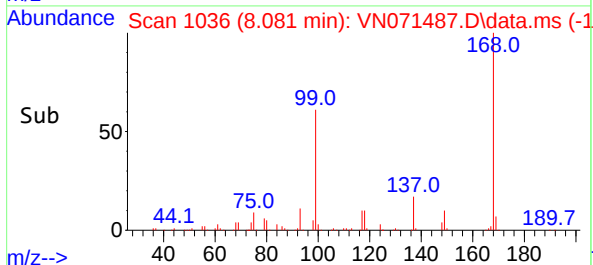
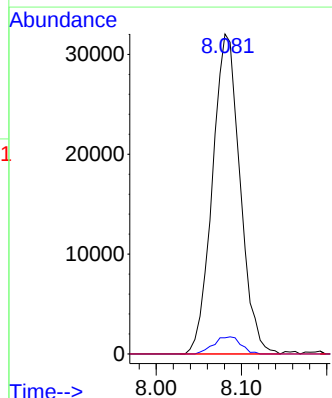
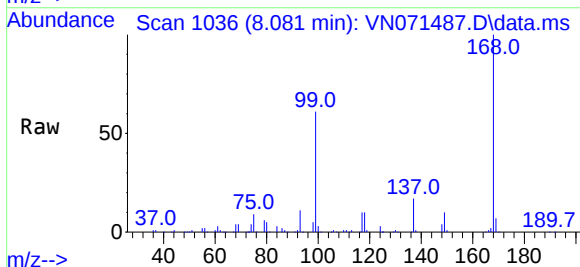
Tgt Ion: 117 Resp: 72107

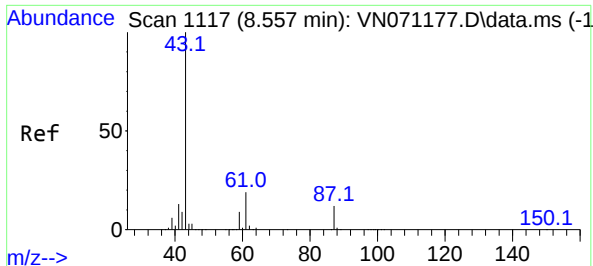
Ion Ratio Lower Upper

117 100

119 5.1 76.1 114.1#

121 0.0 24.2 36.2#

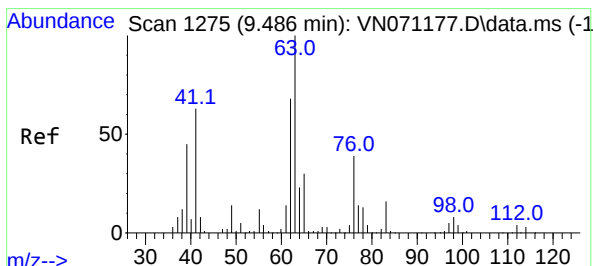
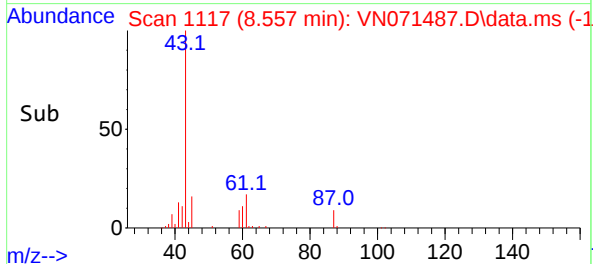
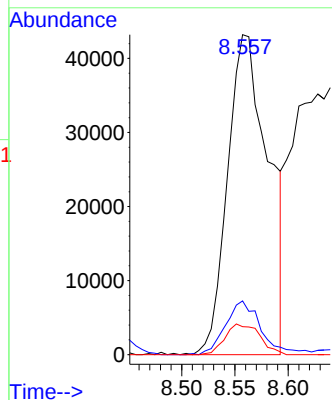
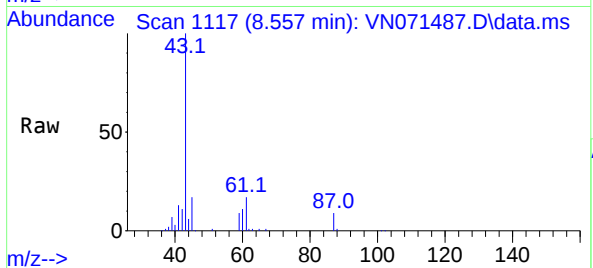




#43
Isopropyl Acetate
Concen: 4.402 ug/l
RT: 8.557 min Scan# 1117
Delta R.T. 0.000 min
Lab File: VN071487.D
Acq: 23 Mar 2022 01:00

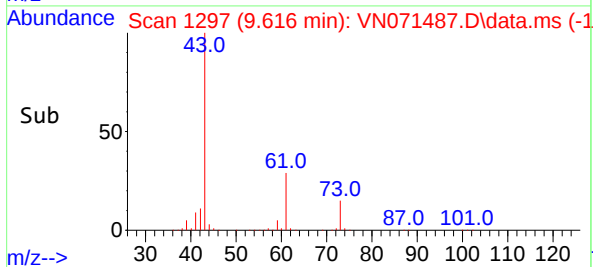
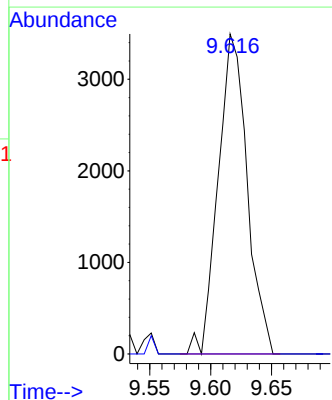
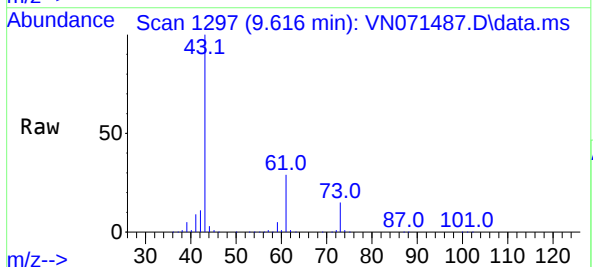
Instrument :
MSVOA_N
ClientSampleId :
MHA

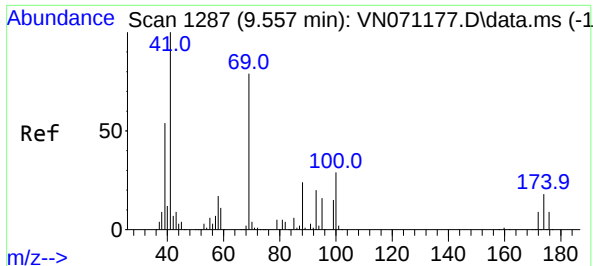
Tgt Ion: 43 Resp: 115169
Ion Ratio Lower Upper
43 100
61 14.8 20.4 30.6#
87 8.2 11.2 16.8#



#45
1,2-Dichloropropane
Concen: 0.563 ug/l
RT: 9.616 min Scan# 1297
Delta R.T. 0.130 min
Lab File: VN071487.D
Acq: 23 Mar 2022 01:00

Tgt Ion: 63 Resp: 5790
Ion Ratio Lower Upper
63 100
65 0.0 24.7 37.1#

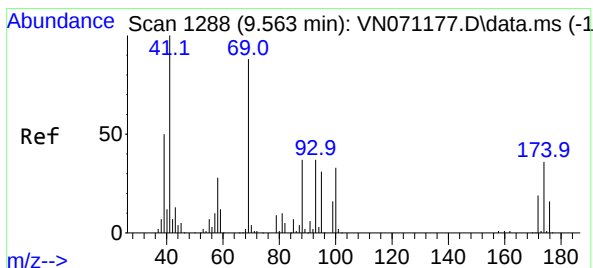
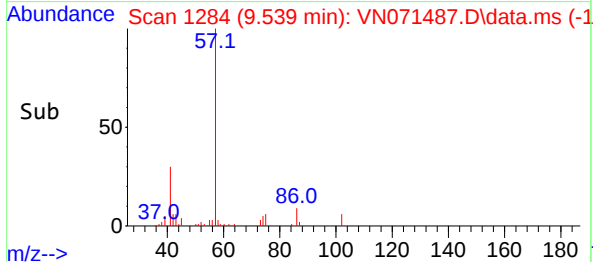
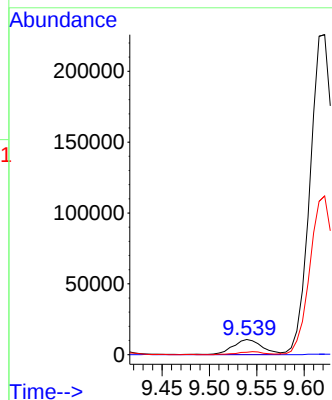
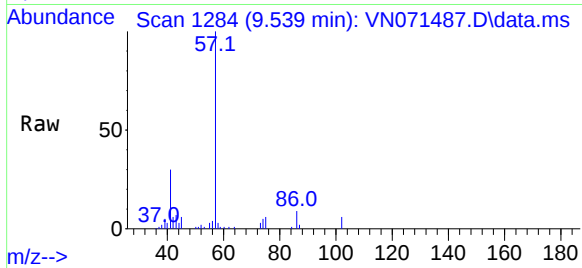




#48
Methyl methacrylate
Concen: 1.842 ug/l
RT: 9.539 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN071487.D
Acq: 23 Mar 2022 01:00

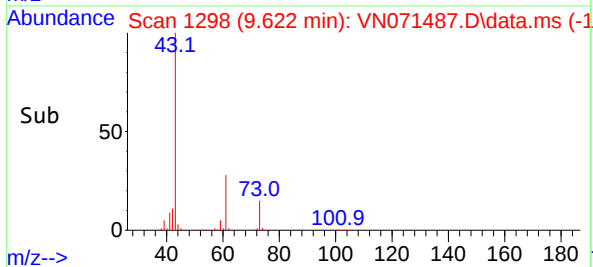
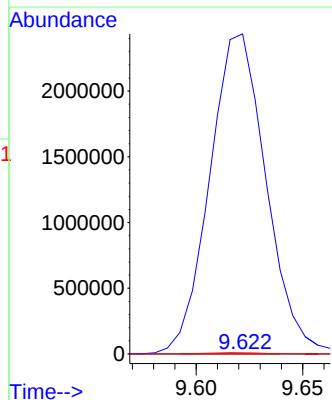
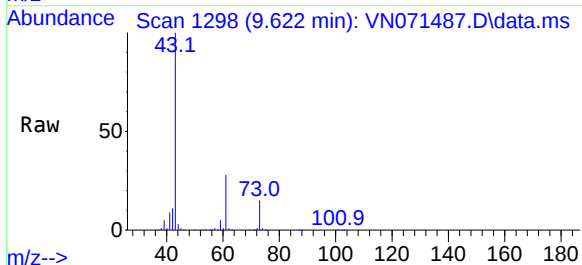
Instrument :
MSVOA_N
ClientSampleId :
MHA

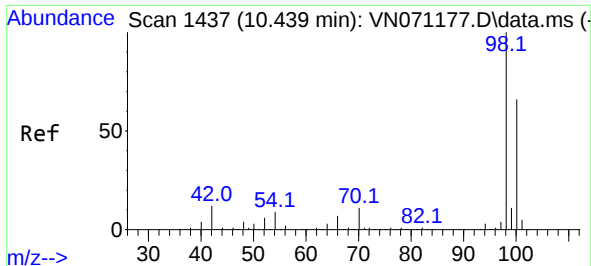
Tgt Ion: 41 Resp: 22334
Ion Ratio Lower Upper
41 100
69 0.0 72.4 108.6#
39 0.0 58.4 87.6#



#49
1,4-Dioxane
Concen: 2.918 ug/l
RT: 9.622 min Scan# 1298
Delta R.T. 0.059 min
Lab File: VN071487.D
Acq: 23 Mar 2022 01:00

Tgt Ion: 88 Resp: 615
Ion Ratio Lower Upper
88 100
43 741948.8 23.4 35.2#
58 2968.8 50.6 75.8#

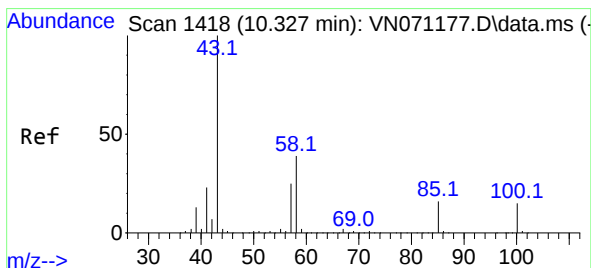
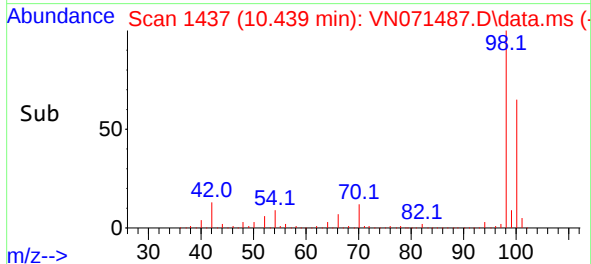
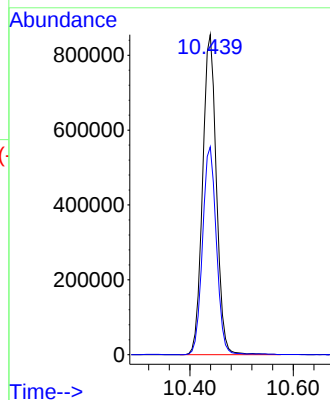
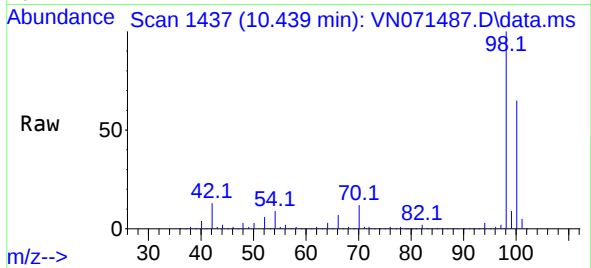




#50
Toluene-d8
Concen: 49.511 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VN071487.D
Acq: 23 Mar 2022 01:00

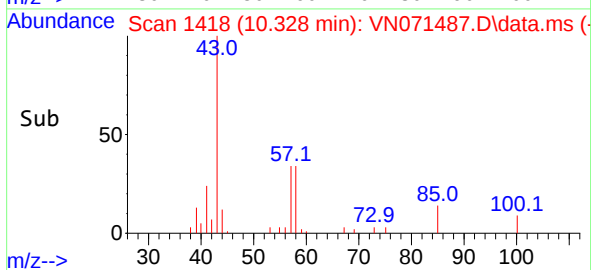
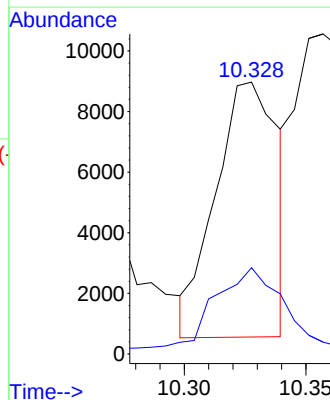
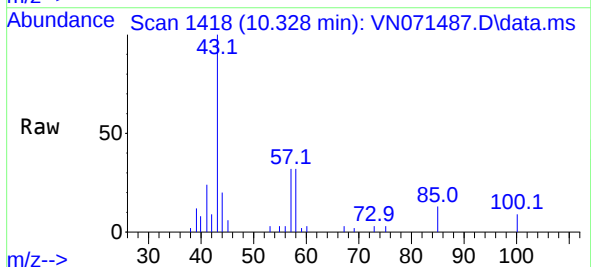
Instrument :
MSVOA_N
ClientSampleId :
MHA

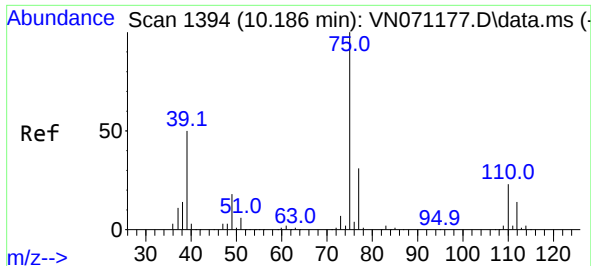
Tgt Ion: 98 Resp: 1581651
Ion Ratio Lower Upper
98 100
100 65.3 50.4 75.6



#51
4-Methyl-2-Pentanone
Concen: 0.923 ug/l
RT: 10.328 min Scan# 1418
Delta R.T. 0.001 min
Lab File: VN071487.D
Acq: 23 Mar 2022 01:00

Tgt Ion: 43 Resp: 14982
Ion Ratio Lower Upper
43 100
58 40.0 30.4 45.6

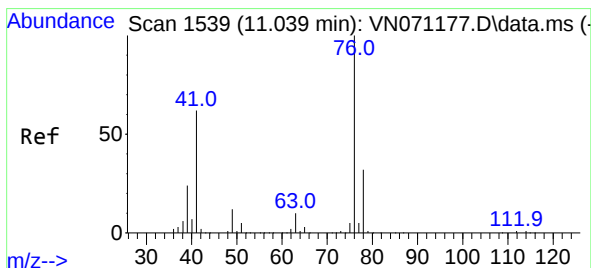
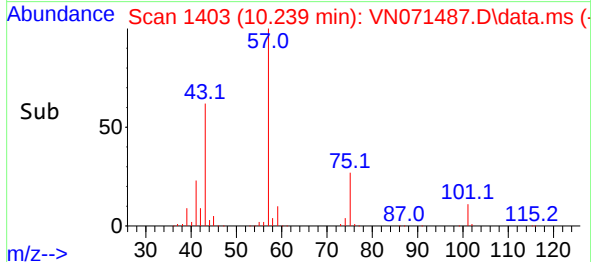
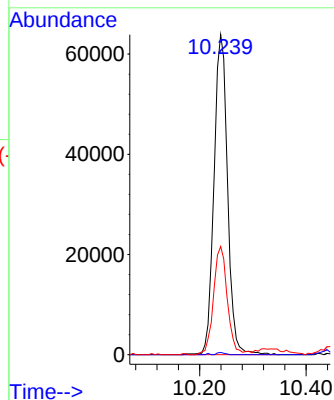
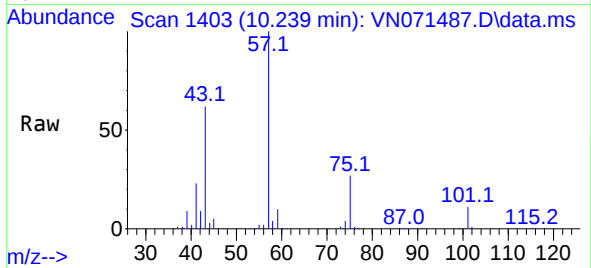




#54
 cis-1,3-Dichloropropene
 Concen: 7.329 ug/l
 RT: 10.239 min Scan# 14
 Delta R.T. 0.053 min
 Lab File: VN071487.D
 Acq: 23 Mar 2022 01:00

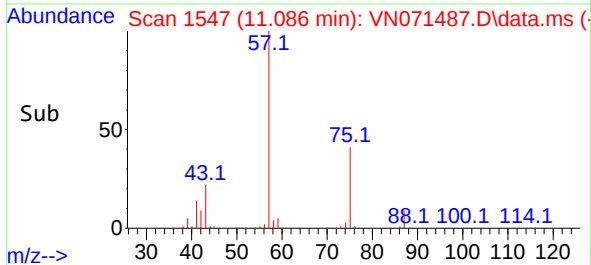
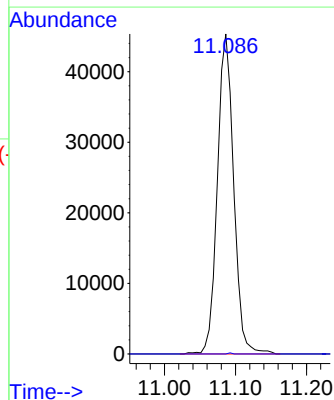
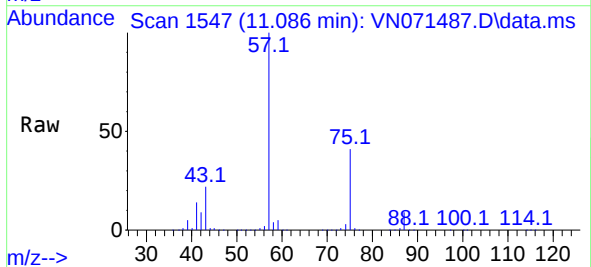
Instrument :
 MSVOA_N
 ClientSampleId :
 MHA

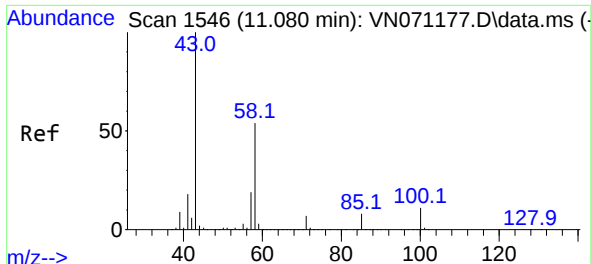
Tgt Ion: 75 Resp: 112898
 Ion Ratio Lower Upper
 75 100
 77 0.7 26.4 39.6#
 39 33.8 42.5 63.7#



#57
 1,3-Dichloropropane
 Concen: 4.248 ug/l
 RT: 11.086 min Scan# 1547
 Delta R.T. 0.047 min
 Lab File: VN071487.D
 Acq: 23 Mar 2022 01:00

Tgt Ion: 76 Resp: 72066
 Ion Ratio Lower Upper
 76 100
 78 0.1 25.7 38.5#

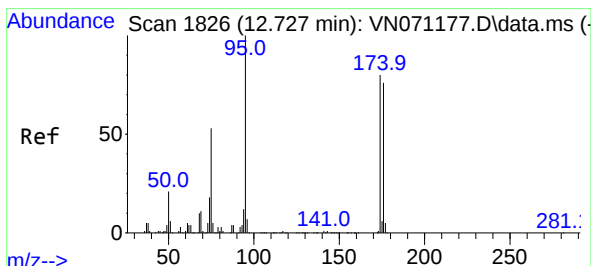
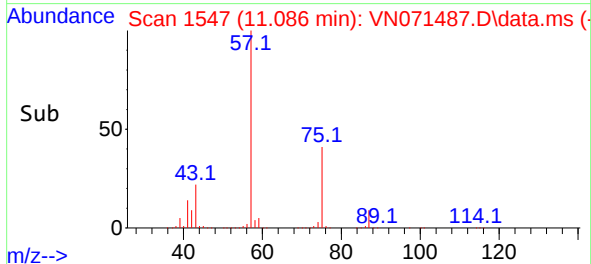
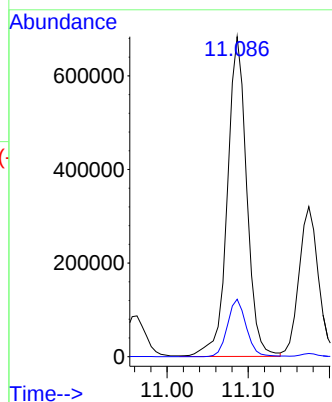
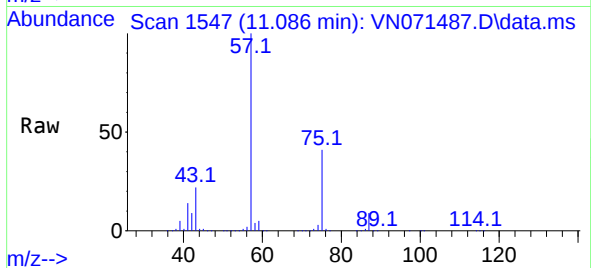




#59
2-Hexanone
Concen: 102.237 ug/l
RT: 11.086 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN071487.D
Acq: 23 Mar 2022 01:00

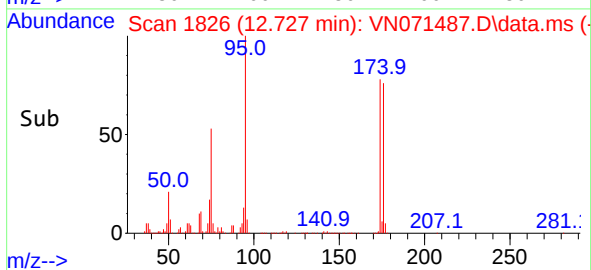
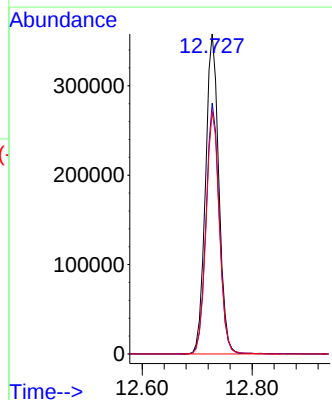
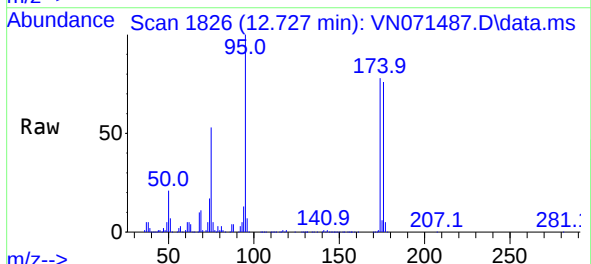
Instrument :
MSVOA_N
ClientSampleId :
MHA

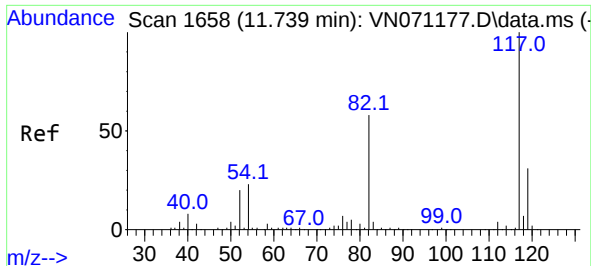
Tgt Ion: 43 Resp: 1132629
Ion Ratio Lower Upper
43 100
58 17.5 26.9 80.7#



#62
4-Bromofluorobenzene
Concen: 55.583 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN071487.D
Acq: 23 Mar 2022 01:00

Tgt Ion: 95 Resp: 601267
Ion Ratio Lower Upper
95 100
174 78.1 0.0 187.2
176 75.5 0.0 181.4

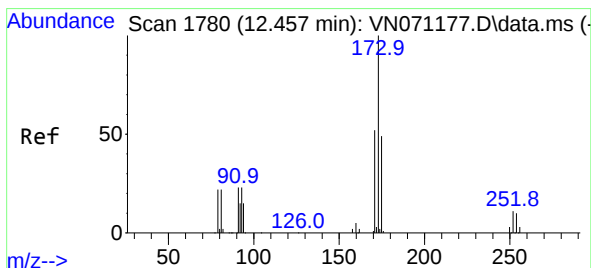
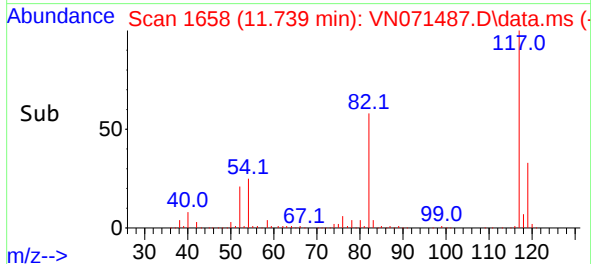
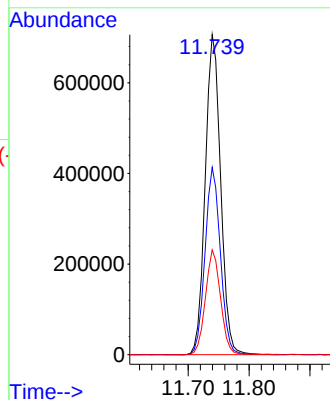
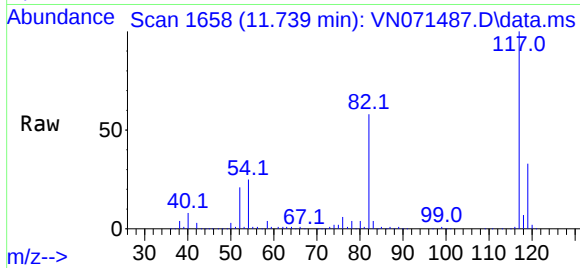




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.739 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN071487.D
Acq: 23 Mar 2022 01:00

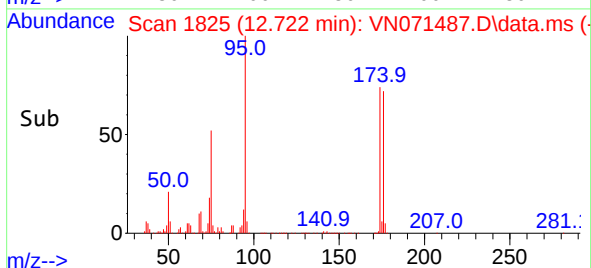
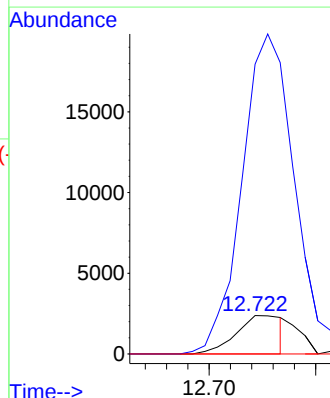
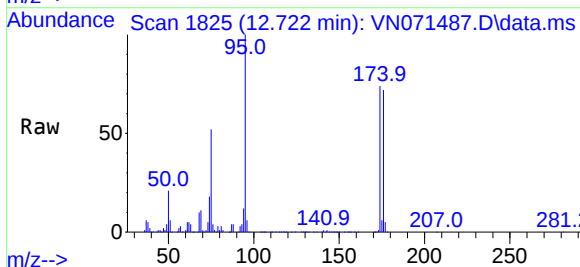
Instrument :
MSVOA_N
ClientSampleId :
MHA

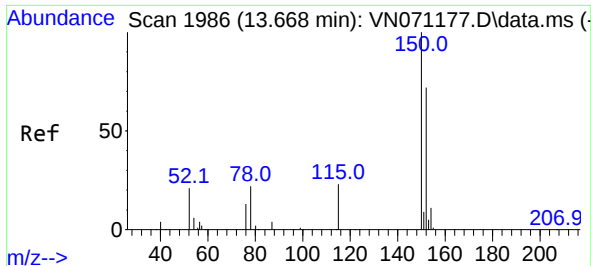
Tgt Ion:117 Resp: 1243324
Ion Ratio Lower Upper
117 100
82 58.5 42.4 63.6
119 32.7 25.4 38.2



#71
Bromoform
Concen: 0.481 ug/l
RT: 12.722 min Scan# 1825
Delta R.T. 0.265 min
Lab File: VN071487.D
Acq: 23 Mar 2022 01:00

Tgt Ion:173 Resp: 3573
Ion Ratio Lower Upper
173 100
175 735.9 24.2 72.6#
254 0.0 0.0 0.0

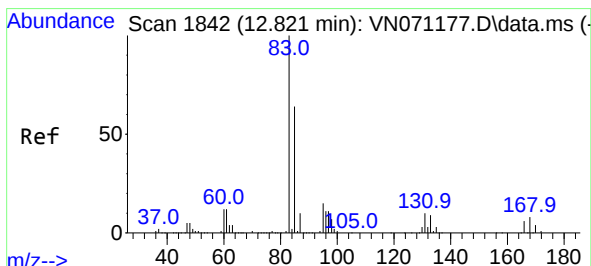
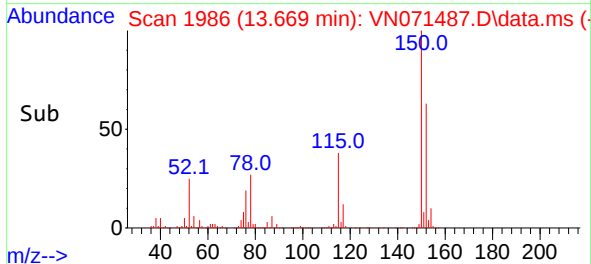
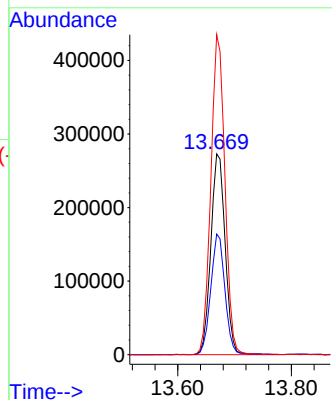
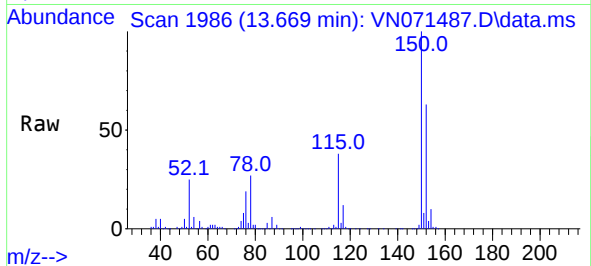




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.669 min Scan# 1986
 Delta R.T. 0.001 min
 Lab File: VN071487.D
 Acq: 23 Mar 2022 01:00

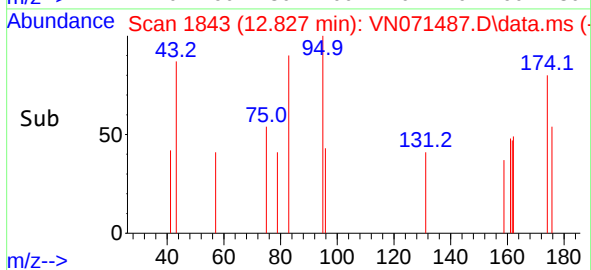
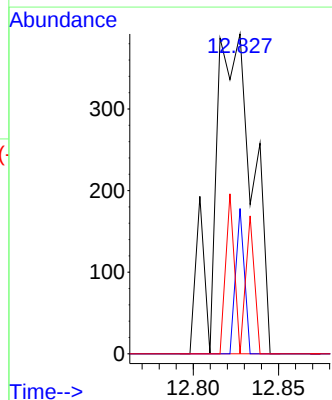
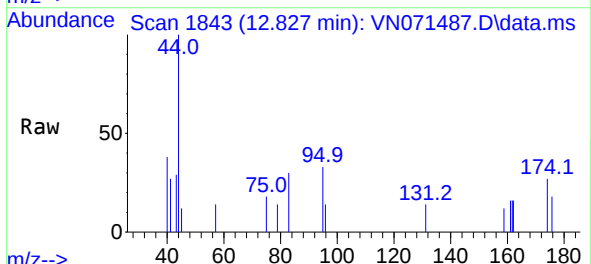
Instrument :
 MSVOA_N
 ClientSampleId :
 MHA

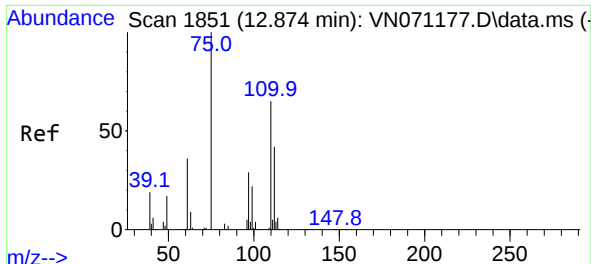
Tgt Ion:152 Resp: 476468
 Ion Ratio Lower Upper
 152 100
 115 59.8 27.5 82.5
 150 156.0 0.0 344.4



#75
 1,1,2,2-Tetrachloroethane
 Concen: Below Cal
 RT: 12.827 min Scan# 1843
 Delta R.T. 0.006 min
 Lab File: VN071487.D
 Acq: 23 Mar 2022 01:00

Tgt Ion: 83 Resp: 617
 Ion Ratio Lower Upper
 83 100
 131 10.2 5.5 16.5
 85 20.9 32.4 97.2#

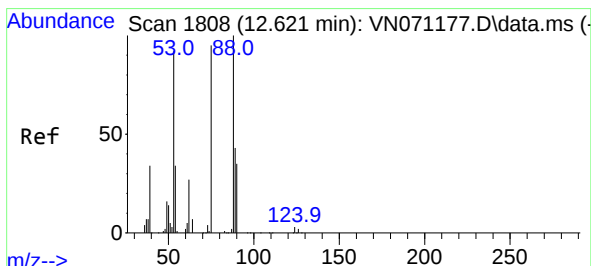
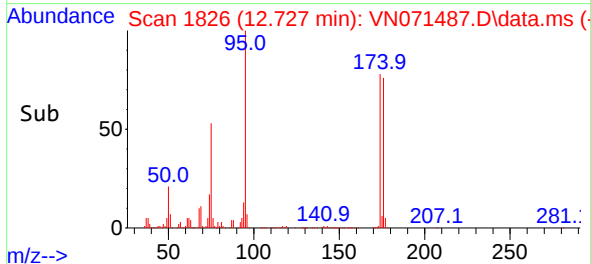
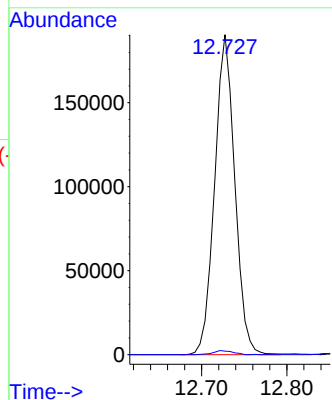
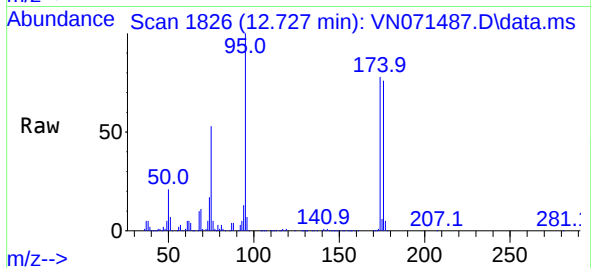




#76
1,2,3-Trichloropropane
Concen: 25.776 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.147 min
Lab File: VN071487.D
Acq: 23 Mar 2022 01:00

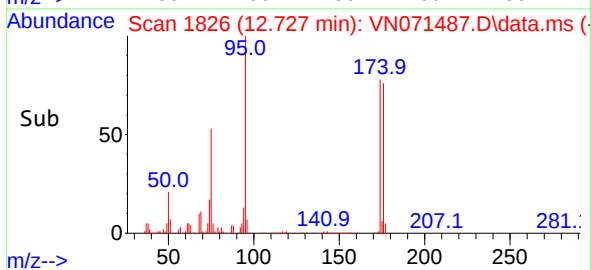
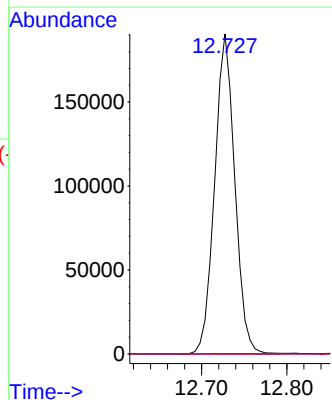
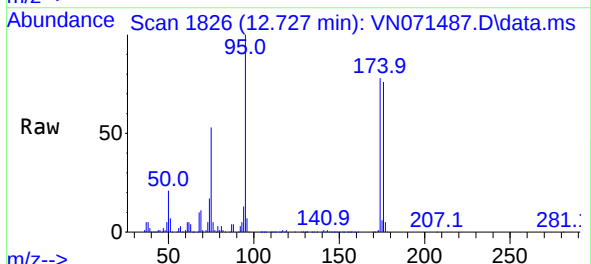
Instrument :
MSVOA_N
ClientSampleId :
MHA

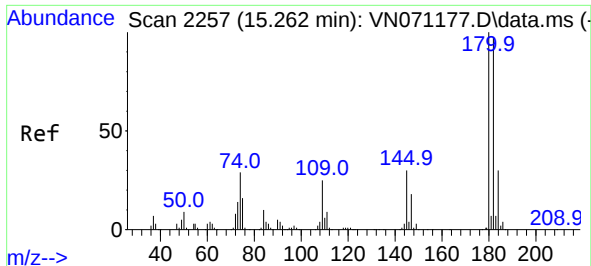
Tgt Ion: 75 Resp: 313447
Ion Ratio Lower Upper
75 100
77 1.2 82.6 247.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 71.114 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.106 min
Lab File: VN071487.D
Acq: 23 Mar 2022 01:00

Tgt Ion: 75 Resp: 313447
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 38.2 57.4#

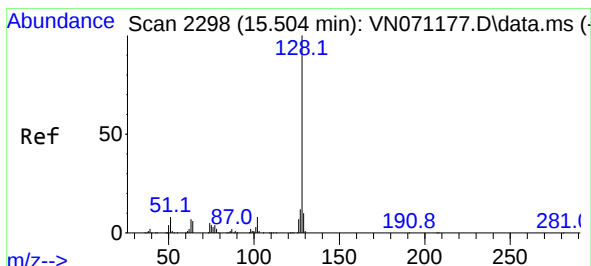
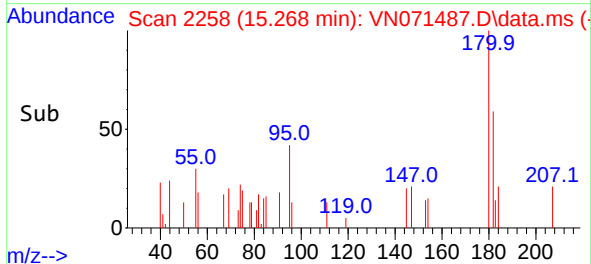
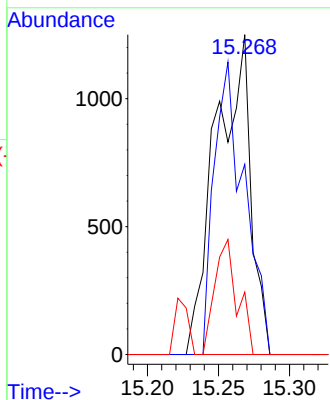
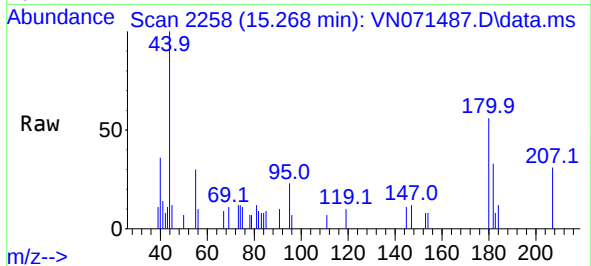




#93
1,2,4-Trichlorobenzene
Concen: 3.248 ug/l
RT: 15.268 min Scan# 2149
Delta R.T. 0.006 min
Lab File: VN071487.D
Acq: 23 Mar 2022 01:00

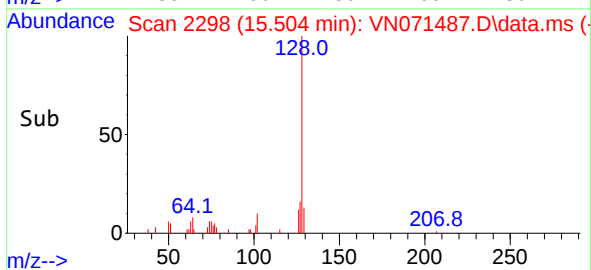
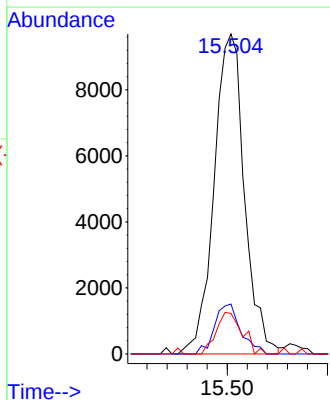
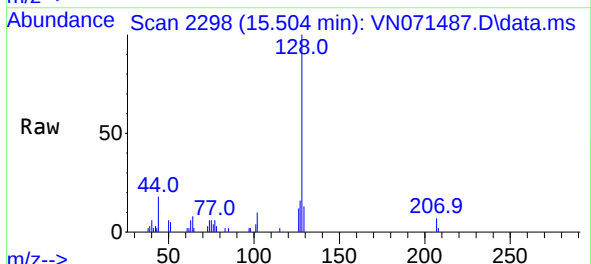
Instrument :
MSVOA_N
ClientSampleId :
MHA

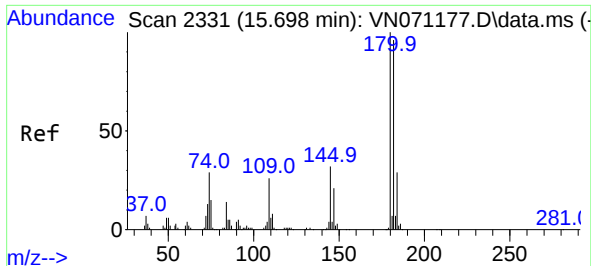
Tgt Ion:	180	Resp:	2149
Ion	Ratio	Lower	Upper
180	100		
182	78.7	48.3	144.9
145	23.3	14.5	43.5



#95
Naphthalene
Concen: 5.904 ug/l
RT: 15.504 min Scan# 2298
Delta R.T. -0.000 min
Lab File: VN071487.D
Acq: 23 Mar 2022 01:00

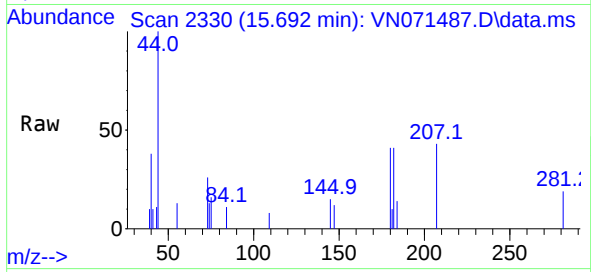
Tgt Ion:	128	Resp:	20342
Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.5	15.7
129	11.1	8.7	13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 2.956 ug/l
 RT: 15.692 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VN071487.D
 Acq: 23 Mar 2022 01:00

Instrument :
 MSVOA_N
 ClientSampleId :
 MHA



Tgt Ion:180 Resp: 1771
 Ion Ratio Lower Upper
 180 100
 182 103.2 47.4 142.2
 145 54.4 15.0 45.1#

