

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081122\
 Data File : VN073829.D
 Acq On : 11 Aug 2022 16:53
 Operator : JC\MD
 Sample : PB146912ZHE#04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB146912ZHE#04

Quant Time: Aug 12 06:04:23 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N072822W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 10 05:09:32 2022
 Response via : Initial Calibration

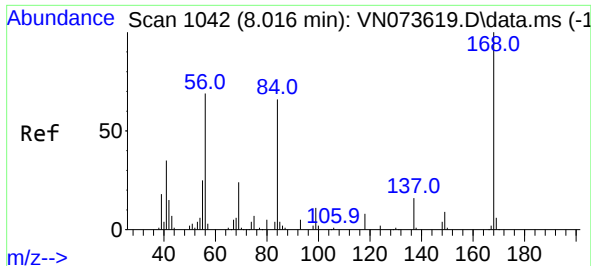
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.022	168	376942	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	623899	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	597090	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.616	152	257762	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	220154	47.926	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	95.860%		
35) Dibromofluoromethane	7.951	113	208179	53.138	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	106.280%		
50) Toluene-d8	10.380	98	705376	45.754	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	91.500%		
62) 4-Bromofluorobenzene	12.674	95	250421	46.477	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	92.960%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.263	50	810	Below Cal	#	73
5) Bromomethane	2.828	94	1182	0.319	ug/l #	78
6) Chloroethane	2.957	64	603	Below Cal	#	42
11) Tert butyl alcohol	5.310	59	2827	2.854	ug/l #	77
16) Acetone	4.228	43	82812	33.564	ug/l	99
18) Methyl Acetate	4.787	43	8513	1.387	ug/l	93
20) Methylene Chloride	5.016	84	18700	2.595	ug/l	91
25) 2-Butanone	7.263	43	26887	7.017	ug/l	91
29) Tetrahydrofuran	7.622	42	1944	0.802	ug/l	96
31) Cyclohexane	8.016	56	7155	1.046	ug/l #	8
36) 1,1-Dichloropropene	8.016	75	26644	4.772	ug/l #	49
37) Ethyl Acetate	7.345	43	68991	9.382	ug/l	97
38) Carbon Tetrachloride	8.022	117	34771	6.131	ug/l #	18
41) Methacrylonitrile	7.628	41	1197	0.360	ug/l #	34
42) 1,2-Dichloroethane	8.498	62	2062	0.337	ug/l #	74
43) Isopropyl Acetate	8.498	43	275549	27.743	ug/l #	92
45) 1,2-Dichloropropane	9.563	63	4037	0.891	ug/l #	44
48) Methyl methacrylate	9.486	41	11138	2.562	ug/l #	39
49) 1,4-Dioxane	9.504	88	144	1.175	ug/l #	25
51) 4-Methyl-2-Pentanone	10.275	43	24996	3.509	ug/l #	74
53) t-1,3-Dichloropropene	10.563	75	2358	0.395	ug/l #	1
54) cis-1,3-Dichloropropene	10.186	75	106250	15.809	ug/l #	63
57) 1,3-Dichloropropane	11.033	76	15920	2.032	ug/l #	42
59) 2-Hexanone	11.033	43	201600	37.352	ug/l #	50
71) Bromoform	12.669	173	1439	0.383	ug/l #	28
74) N-amyl acetate	12.298	43	2145	0.301	ug/l #	48
76) 1,2,3-Trichloropropane	12.674	75	127386	25.390	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.674	75	127386	64.045	ug/l #	11

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

Quant Time: Aug 12 06:04:23 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N072822W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 10 05:09:32 2022
Response via : Initial Calibration

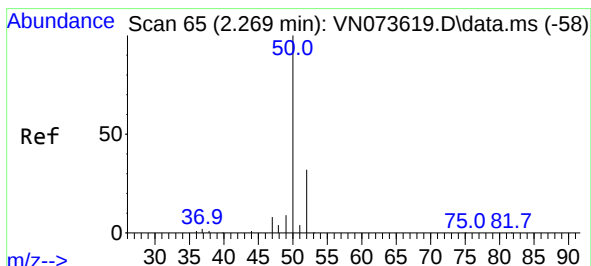
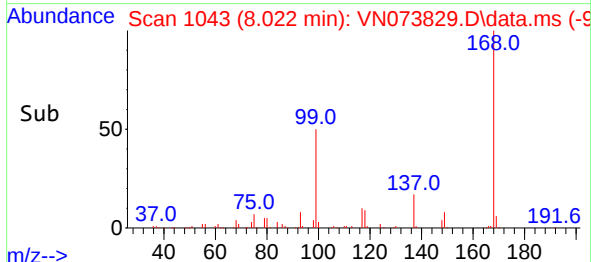
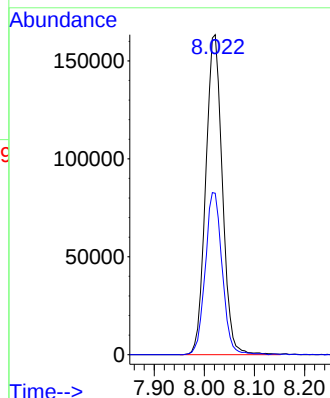
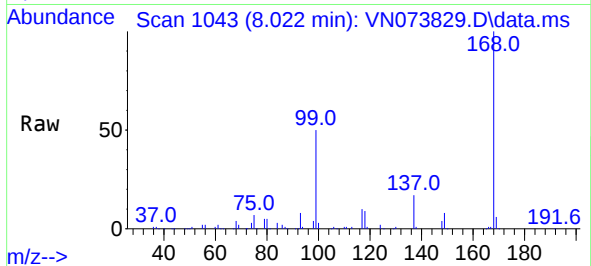




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.022 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN073829.D
Acq: 11 Aug 2022 16:53

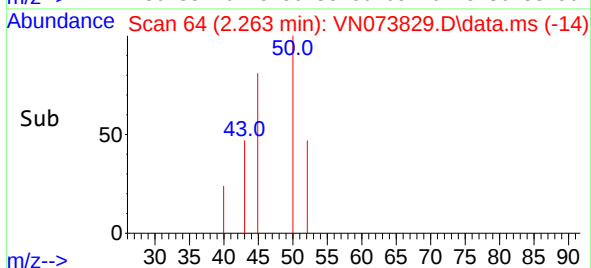
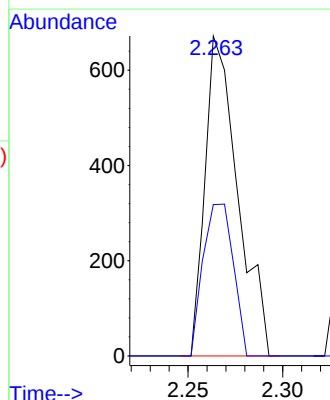
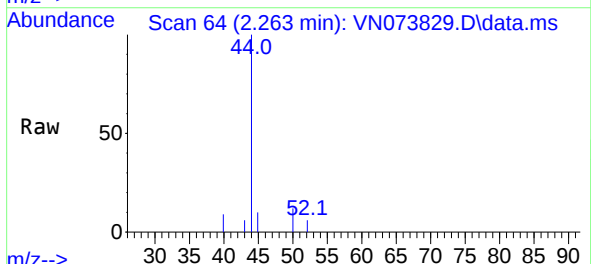
Instrument :
MSVOA_N
ClientSampleId :
PB146912ZHE#04

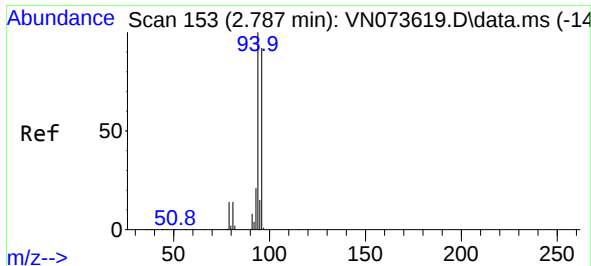
Tgt Ion:168 Resp: 376942
Ion Ratio Lower Upper
168 100
99 50.5 42.3 63.5



#3
Chloromethane
Concen: Below Cal
RT: 2.263 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN073829.D
Acq: 11 Aug 2022 16:53

Tgt Ion: 50 Resp: 810
Ion Ratio Lower Upper
50 100
52 47.3 25.7 38.5#

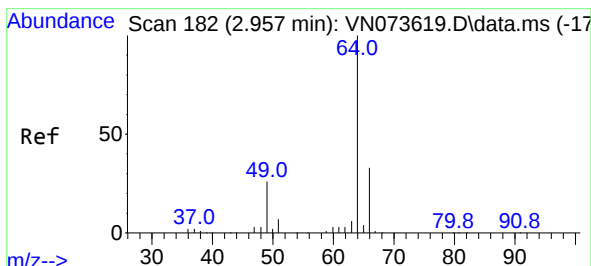
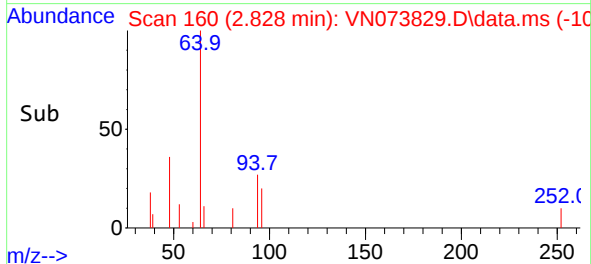
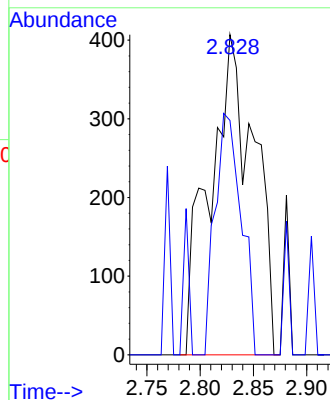
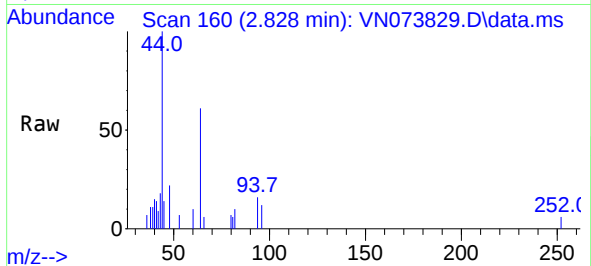




#5
Bromomethane
Concen: 0.319 ug/l
RT: 2.828 min Scan# 1182
Delta R.T. 0.041 min
Lab File: VN073829.D
Acq: 11 Aug 2022 16:53

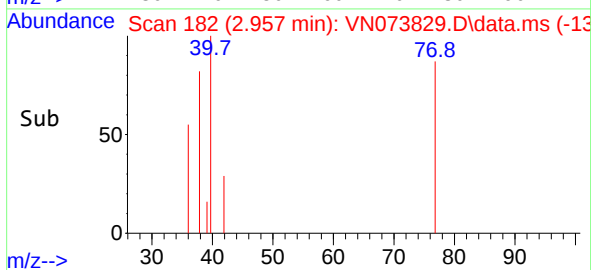
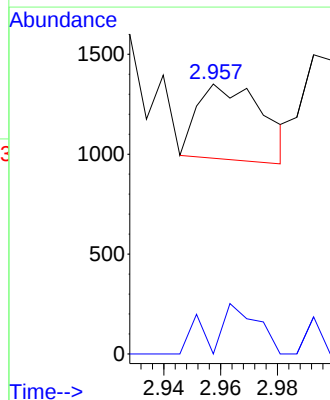
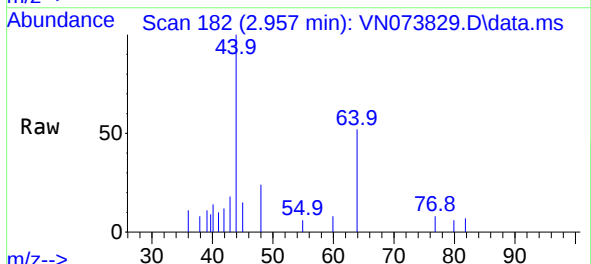
Instrument :
MSVOA_N
ClientSampleId :
PB146912ZHE#04

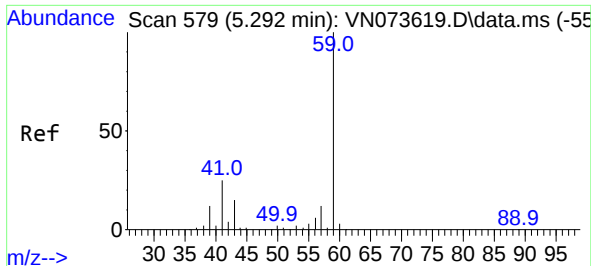
Tgt Ion: 94 Resp: 1182
Ion Ratio Lower Upper
94 100
96 73.2 76.0 114.0#



#6
Chloroethane
Concen: Below Cal
RT: 2.957 min Scan# 182
Delta R.T. 0.000 min
Lab File: VN073829.D
Acq: 11 Aug 2022 16:53

Tgt Ion: 64 Resp: 603
Ion Ratio Lower Upper
64 100
66 0.0 26.2 39.4#





#11

Tert butyl alcohol

Concen: 2.854 ug/l

RT: 5.310 min Scan# 51

Delta R.T. 0.018 min

Lab File: VN073829.D

Acq: 11 Aug 2022 16:53

Instrument :

MSVOA_N

ClientSampleId :

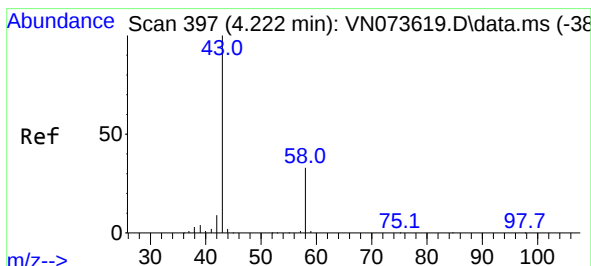
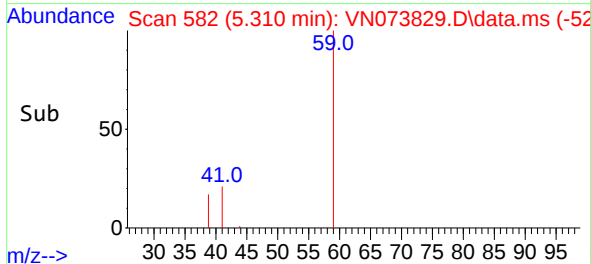
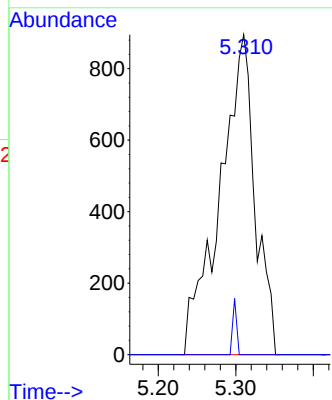
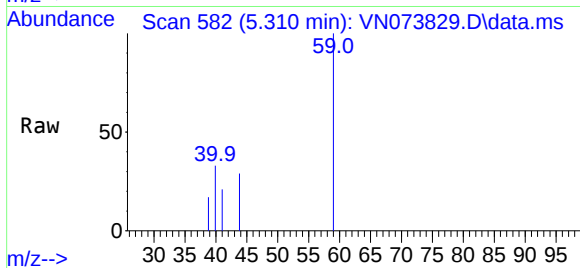
PB146912ZHE#04

Tgt Ion: 59 Resp: 2827

Ion Ratio Lower Upper

59 100

57 1.9 8.3 12.5#



#16

Acetone

Concen: 33.564 ug/l

RT: 4.228 min Scan# 398

Delta R.T. 0.006 min

Lab File: VN073829.D

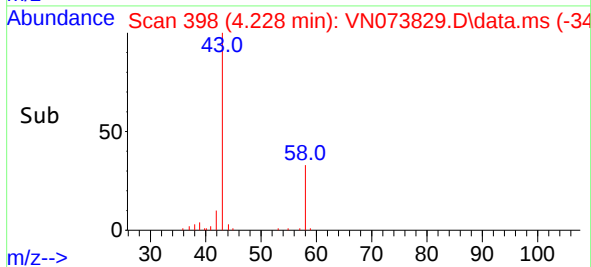
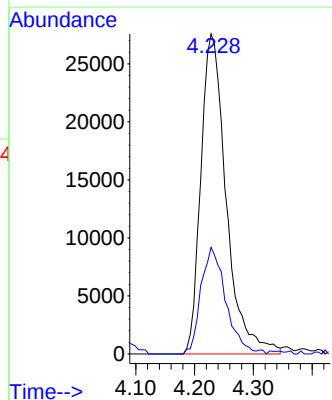
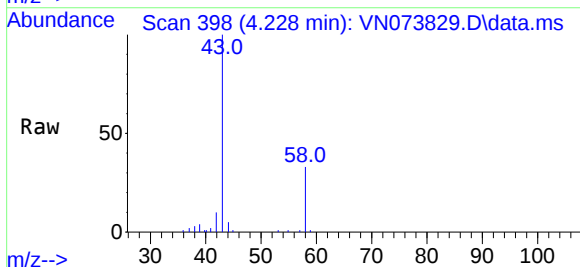
Acq: 11 Aug 2022 16:53

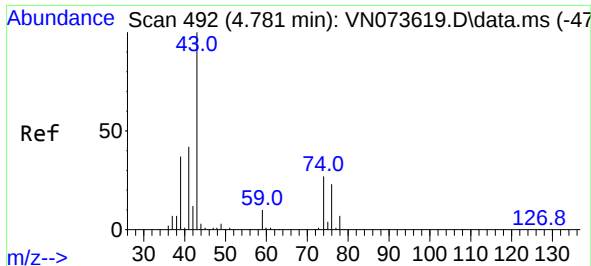
Tgt Ion: 43 Resp: 82812

Ion Ratio Lower Upper

43 100

58 33.3 26.0 39.0





#18

Methyl Acetate

Concen: 1.387 ug/l

RT: 4.787 min Scan# 493

Delta R.T. 0.006 min

Lab File: VN073829.D

Acq: 11 Aug 2022 16:53

Instrument :

MSVOA_N

ClientSampleId :

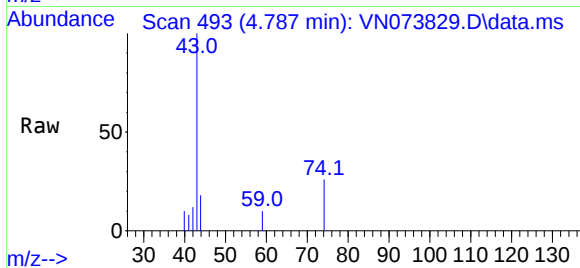
PB146912ZHE#04

Tgt Ion: 43 Resp: 8513

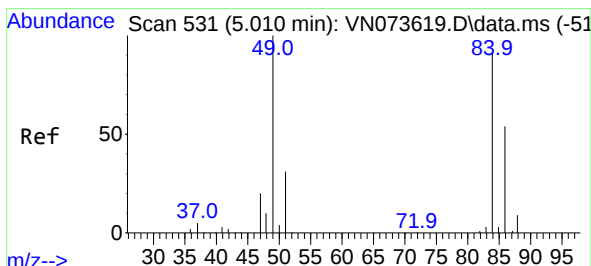
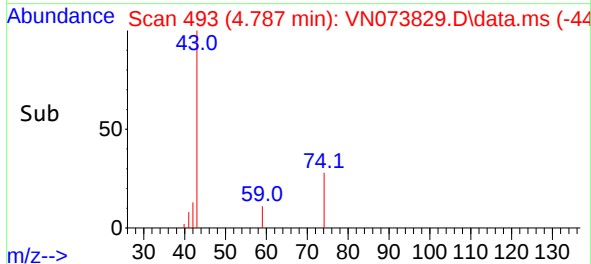
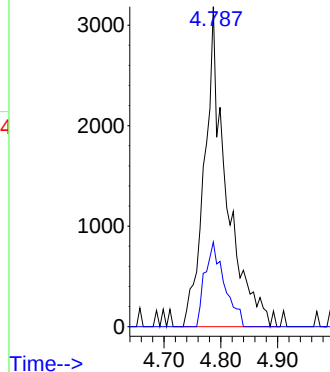
Ion Ratio Lower Upper

43 100

74 23.6 21.6 32.4



Abundance



#20

Methylene Chloride

Concen: 2.595 ug/l

RT: 5.016 min Scan# 532

Delta R.T. 0.006 min

Lab File: VN073829.D

Acq: 11 Aug 2022 16:53

Tgt Ion: 84 Resp: 18700

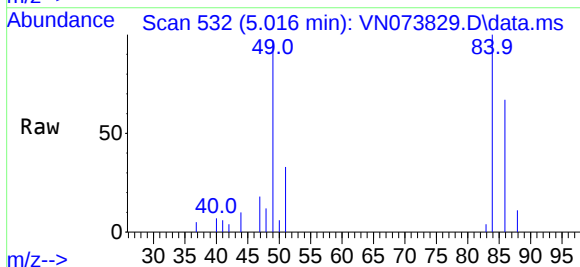
Ion Ratio Lower Upper

84 100

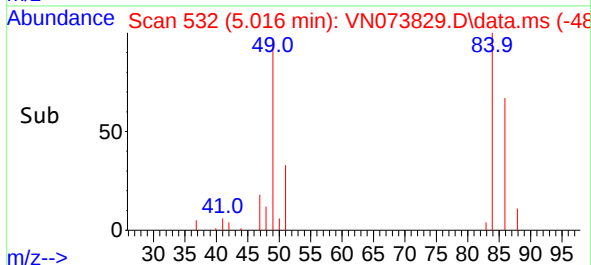
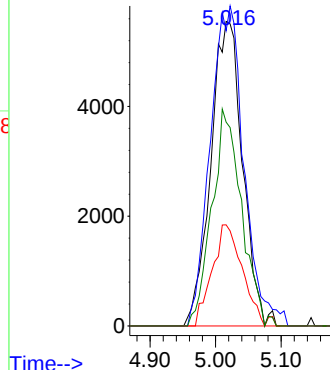
49 97.0 88.3 132.5

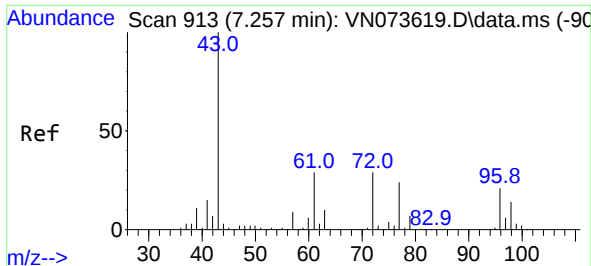
51 33.2 28.2 42.2

86 66.9 50.6 76.0



Abundance





#25

2-Butanone

Concen: 7.017 ug/l

RT: 7.263 min Scan# 913

Delta R.T. 0.006 min

Lab File: VN073829.D

Acq: 11 Aug 2022 16:53

Instrument :

MSVOA_N

ClientSampleId :

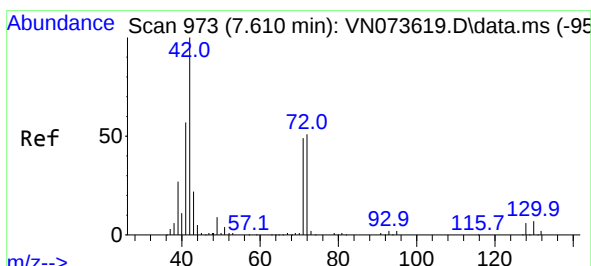
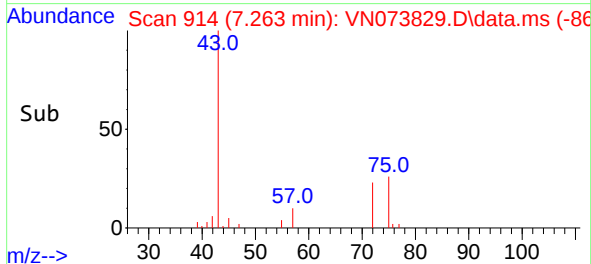
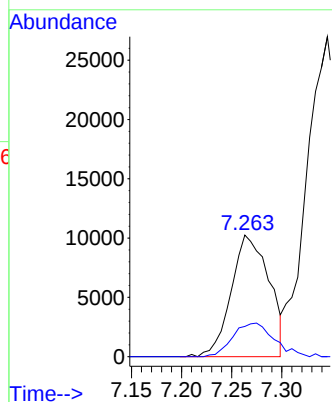
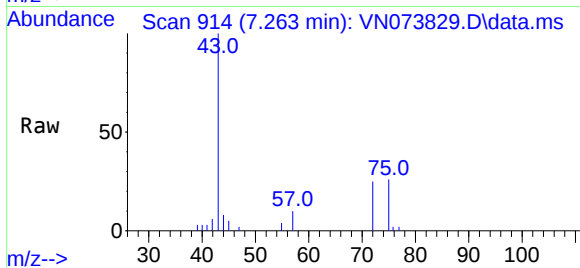
PB146912ZHE#04

Tgt Ion: 43 Resp: 26887

Ion Ratio Lower Upper

43 100

72 24.9 23.7 35.5



#29

Tetrahydrofuran

Concen: 0.802 ug/l

RT: 7.622 min Scan# 975

Delta R.T. 0.012 min

Lab File: VN073829.D

Acq: 11 Aug 2022 16:53

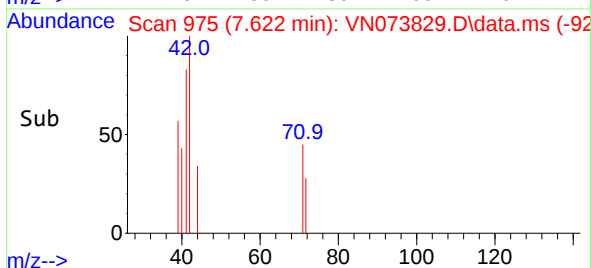
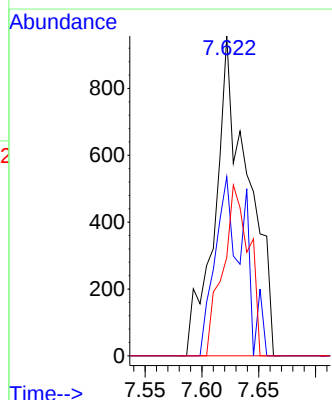
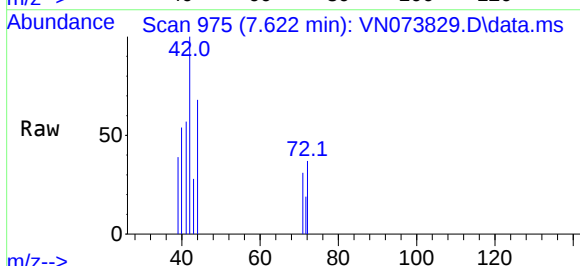
Tgt Ion: 42 Resp: 1944

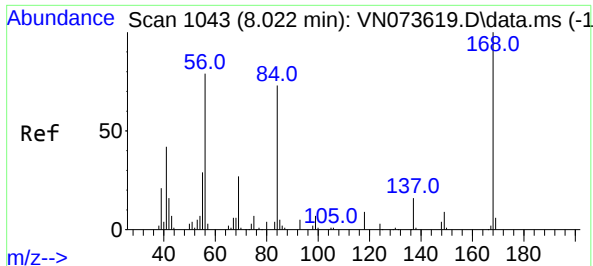
Ion Ratio Lower Upper

42 100

72 47.8 39.7 59.5

71 42.1 36.6 55.0

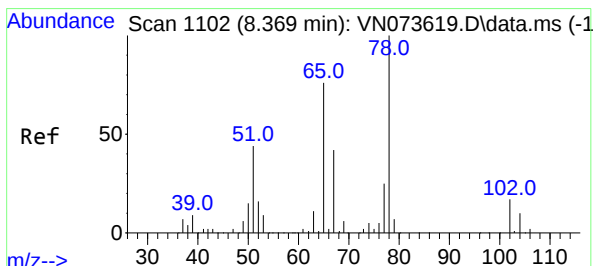
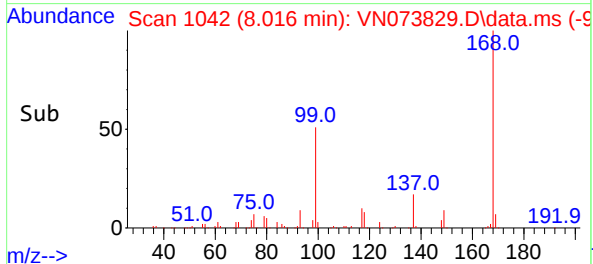
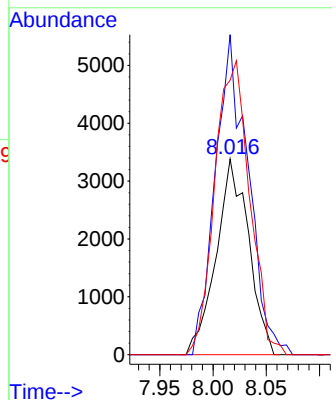
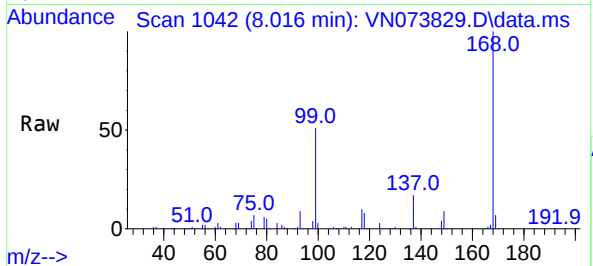




#31
Cyclohexane
Concen: 1.046 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.006 min
Lab File: VN073829.D
Acq: 11 Aug 2022 16:53

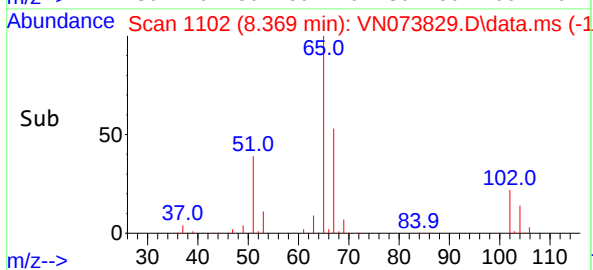
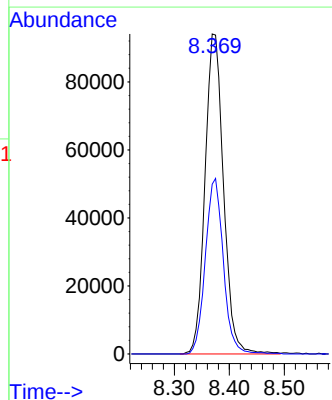
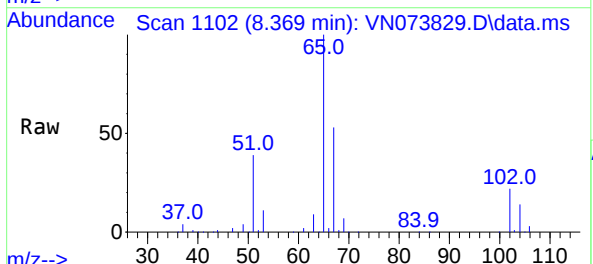
Instrument :
MSVOA_N
ClientSampleId :
PB146912ZHE#04

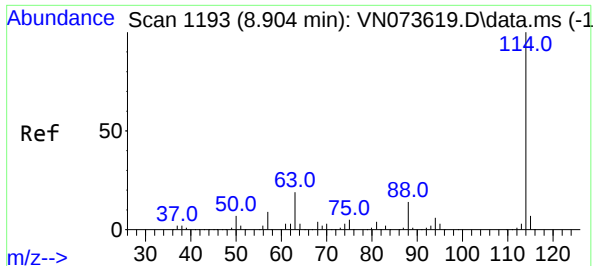
Tgt Ion: 56 Resp: 7155
Ion Ratio Lower Upper
56 100
69 163.5 27.8 41.8#
84 140.3 76.9 115.3#



#33
1,2-Dichloroethane-d4
Concen: 47.926 ug/l
RT: 8.369 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VN073829.D
Acq: 11 Aug 2022 16:53

Tgt Ion: 65 Resp: 220154
Ion Ratio Lower Upper
65 100
67 53.3 0.0 104.8



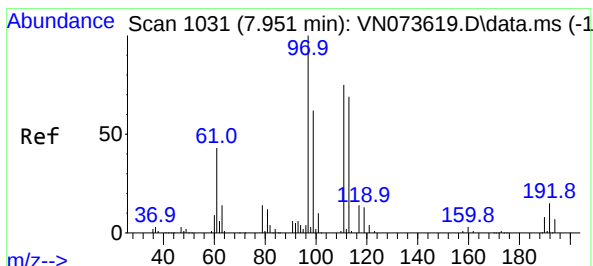
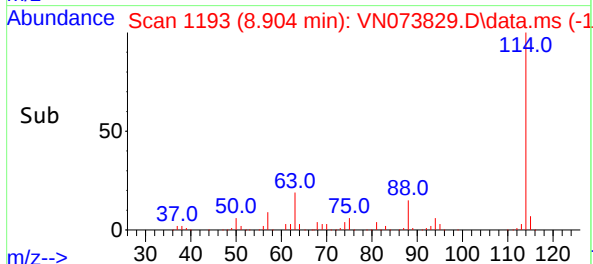
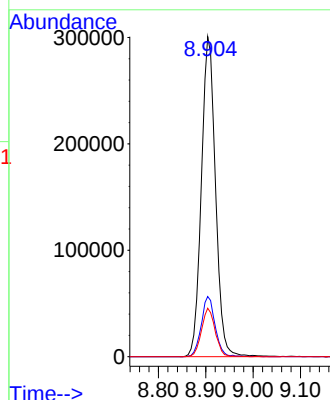
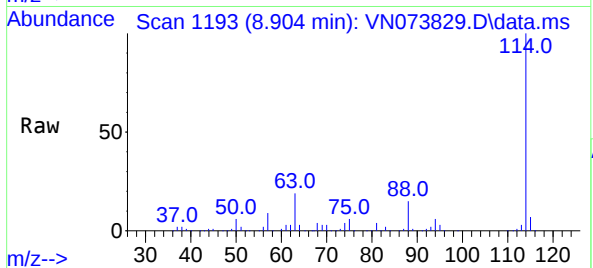


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.904 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VN073829.D
Acq: 11 Aug 2022 16:53

Instrument :
MSVOA_N
ClientSampleId :
PB146912ZHE#04

Tgt Ion:114 Resp: 623899

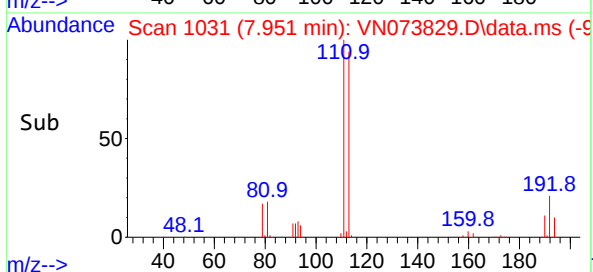
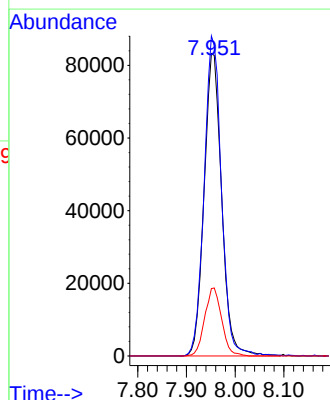
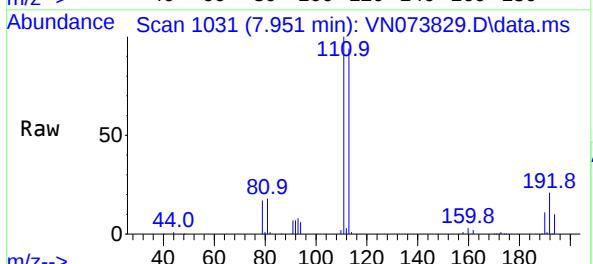
Ion	Ratio	Lower	Upper
114	100		
63	18.8	0.0	40.0
88	15.2	0.0	32.6

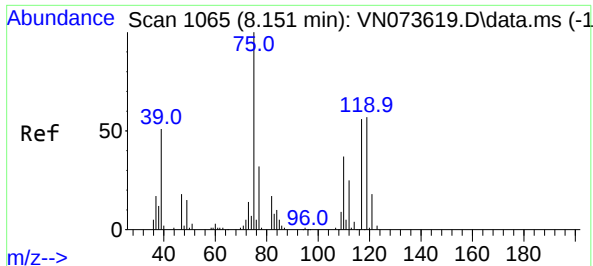


#35
Dibromofluoromethane
Concen: 53.138 ug/l
RT: 7.951 min Scan# 1031
Delta R.T. 0.000 min
Lab File: VN073829.D
Acq: 11 Aug 2022 16:53

Tgt Ion:113 Resp: 208179

Ion	Ratio	Lower	Upper
113	100		
111	104.3	81.4	122.0
192	21.7	17.0	25.6

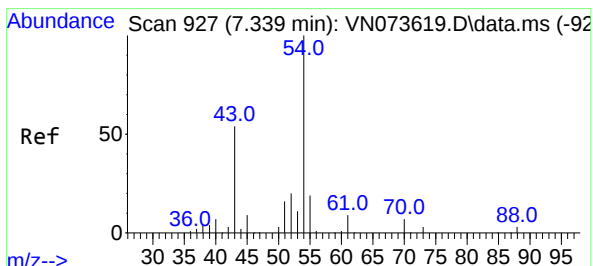
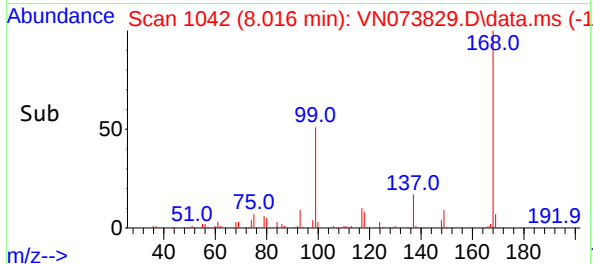
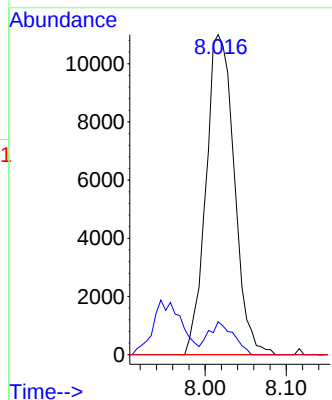
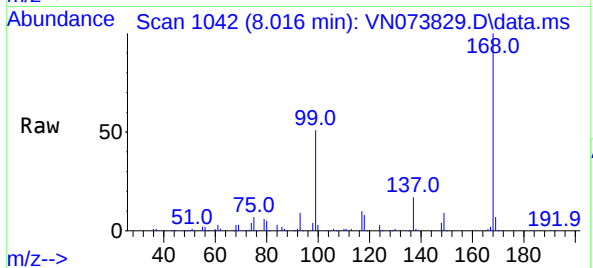




#36
1,1-Dichloropropene
Concen: 4.772 ug/l
RT: 8.016 min Scan# 1065
Delta R.T. -0.135 min
Lab File: VN073829.D
Acq: 11 Aug 2022 16:53

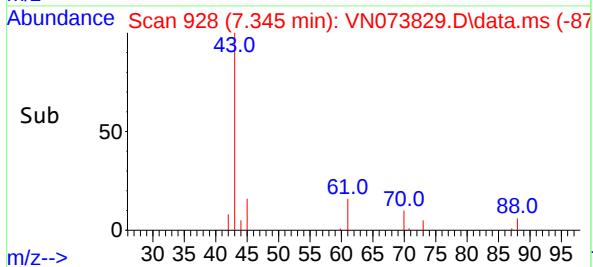
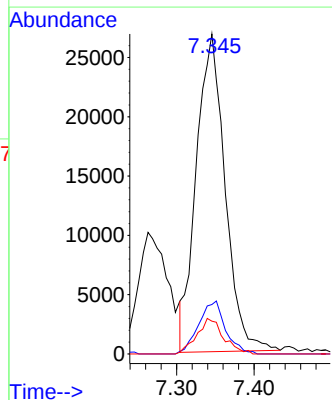
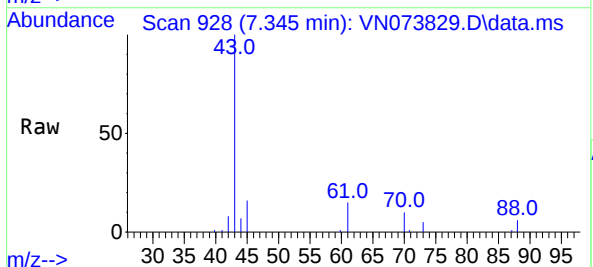
Instrument :
MSVOA_N
ClientSampleId :
PB146912ZHE#04

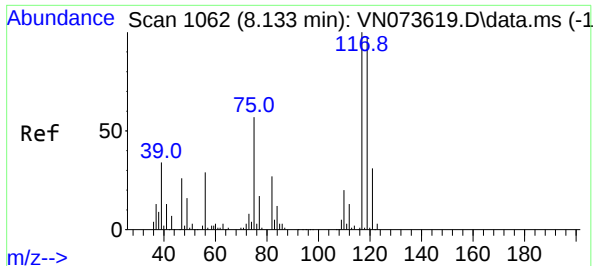
Tgt Ion: 75 Resp: 26644
Ion Ratio Lower Upper
75 100
110 9.0 18.3 54.8#
77 0.0 25.1 37.7#



#37
Ethyl Acetate
Concen: 9.382 ug/l
RT: 7.345 min Scan# 928
Delta R.T. 0.006 min
Lab File: VN073829.D
Acq: 11 Aug 2022 16:53

Tgt Ion: 43 Resp: 68991
Ion Ratio Lower Upper
43 100
61 15.5 11.8 17.6
70 10.4 9.3 13.9

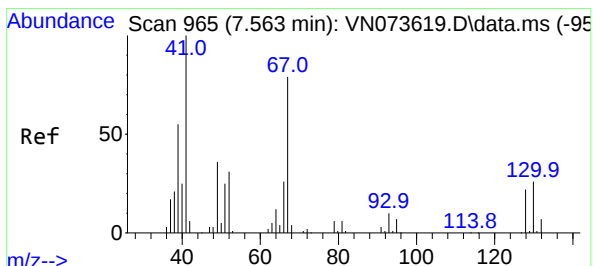
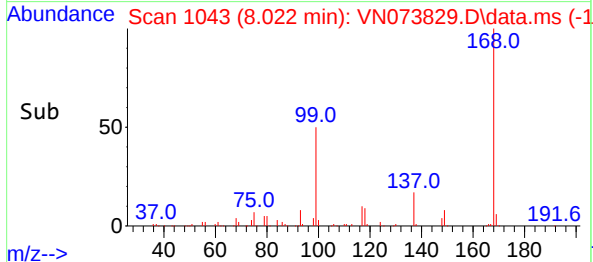
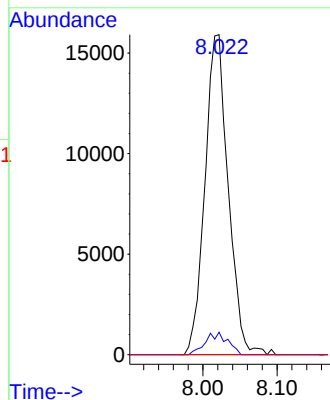
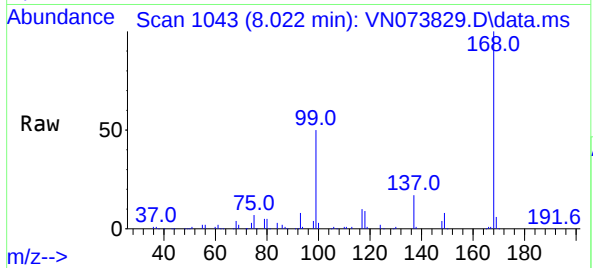




#38
Carbon Tetrachloride
Concen: 6.131 ug/l
RT: 8.022 min Scan# 1043
Delta R.T. -0.112 min
Lab File: VN073829.D
Acq: 11 Aug 2022 16:53

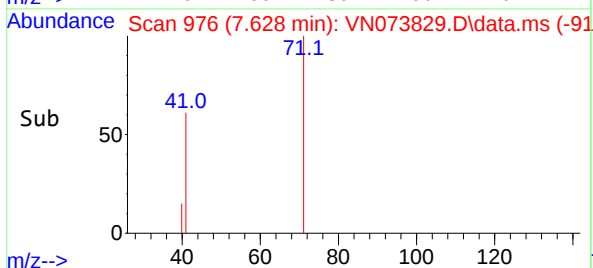
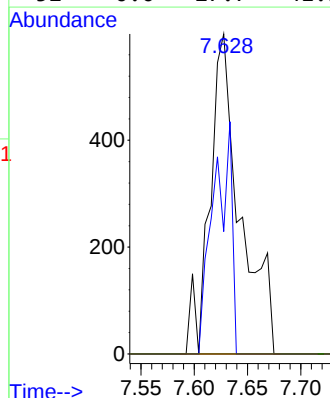
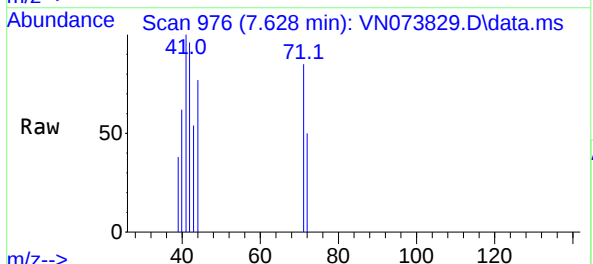
Instrument :
MSVOA_N
ClientSampleId :
PB146912ZHE#04

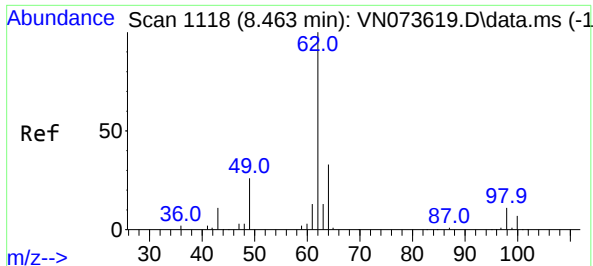
Tgt Ion:117 Resp: 34771
Ion Ratio Lower Upper
117 100
119 7.0 75.8 113.8#
121 0.0 24.6 37.0#



#41
Methacrylonitrile
Concen: 0.360 ug/l
RT: 7.628 min Scan# 976
Delta R.T. 0.065 min
Lab File: VN073829.D
Acq: 11 Aug 2022 16:53

Tgt Ion: 41 Resp: 1197
Ion Ratio Lower Upper
41 100
39 43.2 48.6 73.0#
67 0.0 73.4 110.2#
52 0.0 27.7 41.5#





#42

1,2-Dichloroethane

Concen: 0.337 ug/l

RT: 8.498 min Scan# 1118

Delta R.T. 0.035 min

Lab File: VN073829.D

Acq: 11 Aug 2022 16:53

Instrument :

MSVOA_N

ClientSampleId :

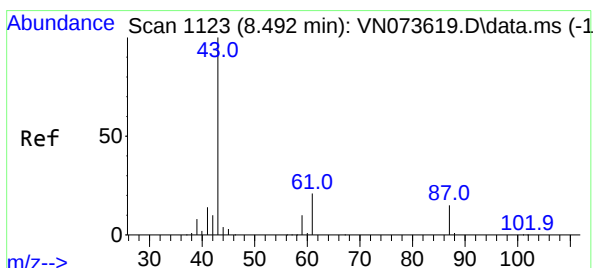
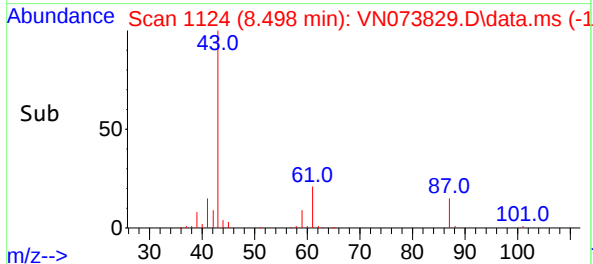
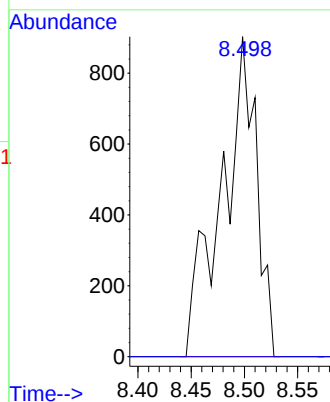
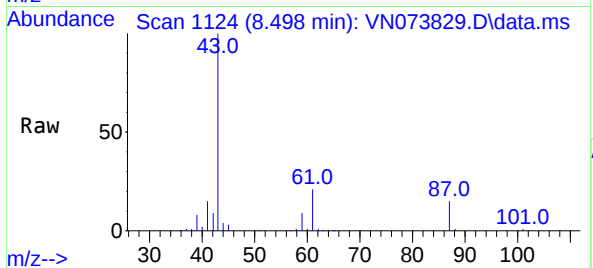
PB146912ZHE#04

Tgt Ion: 62 Resp: 2062

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.4



#43

Isopropyl Acetate

Concen: 27.743 ug/l

RT: 8.498 min Scan# 1124

Delta R.T. 0.006 min

Lab File: VN073829.D

Acq: 11 Aug 2022 16:53

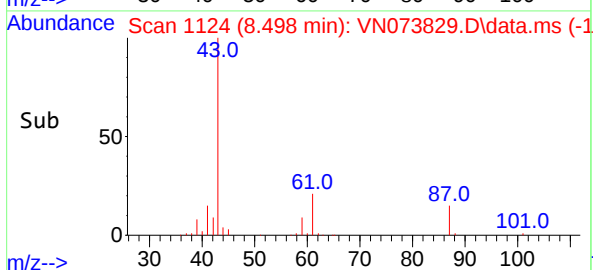
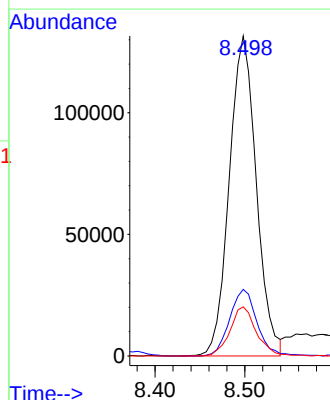
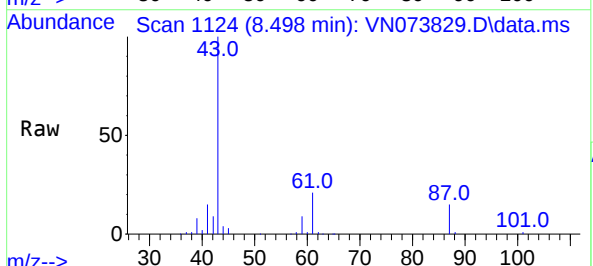
Tgt Ion: 43 Resp: 275549

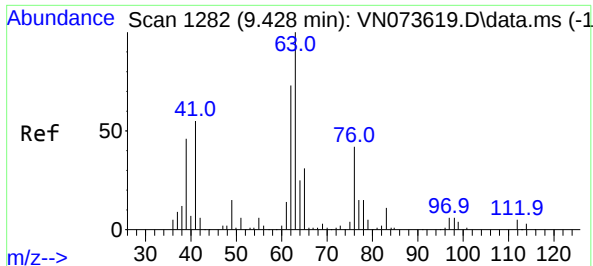
Ion Ratio Lower Upper

43 100

61 21.1 21.9 32.9#

87 15.0 12.0 18.0

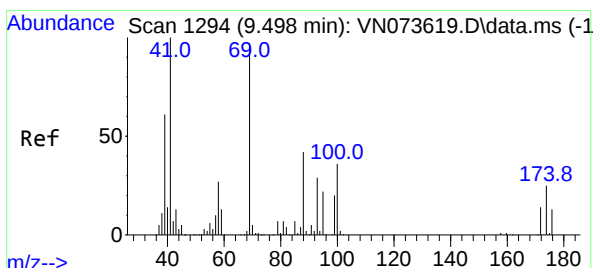
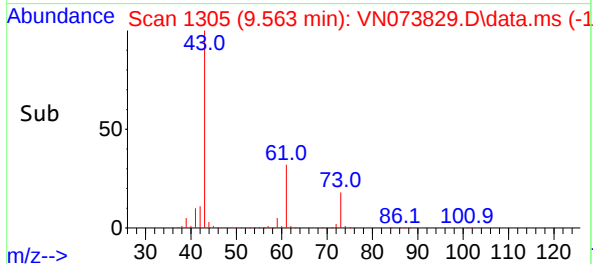
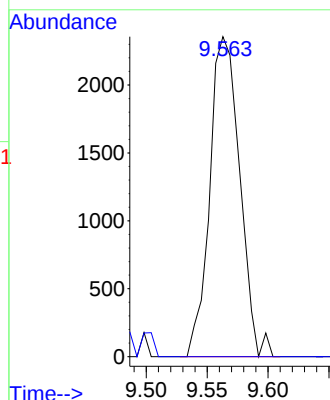
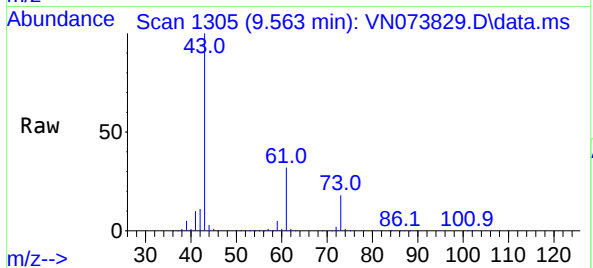




#45
1,2-Dichloropropane
Concen: 0.891 ug/l
RT: 9.563 min Scan# 11
Delta R.T. 0.135 min
Lab File: VN073829.D
Acq: 11 Aug 2022 16:53

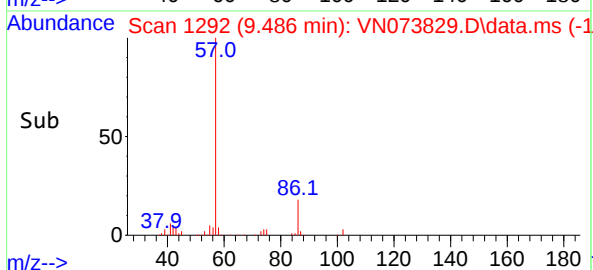
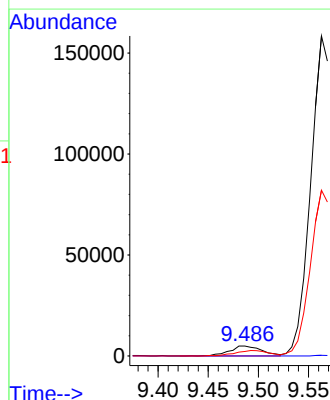
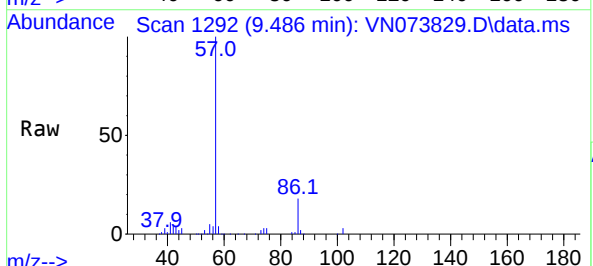
Instrument :
MSVOA_N
ClientSampleId :
PB146912ZHE#04

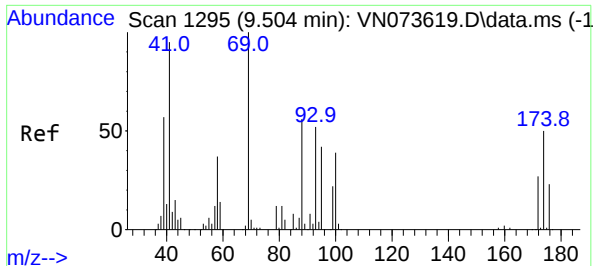
Tgt Ion: 63 Resp: 4037
Ion Ratio Lower Upper
63 100
65 0.0 24.9 37.3#



#48
Methyl methacrylate
Concen: 2.562 ug/l
RT: 9.486 min Scan# 1292
Delta R.T. -0.012 min
Lab File: VN073829.D
Acq: 11 Aug 2022 16:53

Tgt Ion: 41 Resp: 11138
Ion Ratio Lower Upper
41 100
69 0.0 74.7 112.1#
39 55.5 45.6 68.4

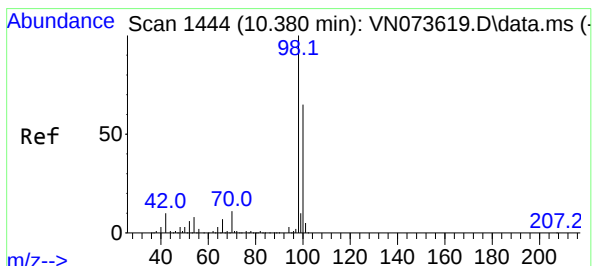
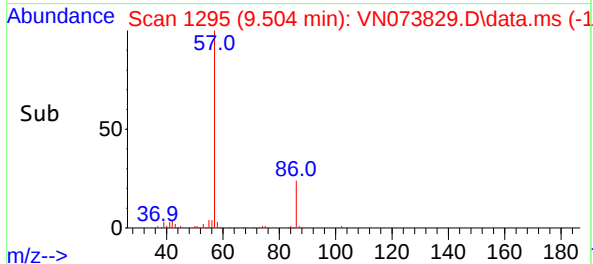
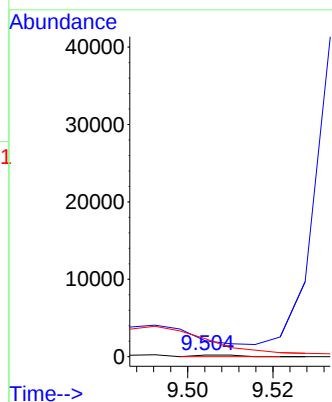
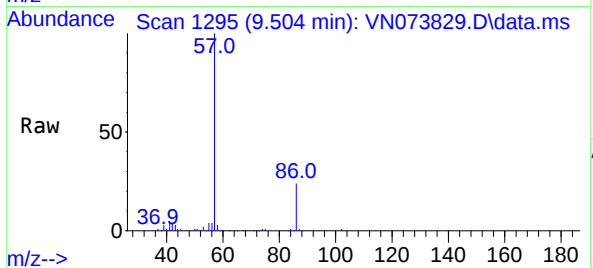




#49
1,4-Dioxane
Concen: 1.175 ug/l
RT: 9.504 min Scan# 1295
Delta R.T. 0.000 min
Lab File: VN073829.D
Acq: 11 Aug 2022 16:53

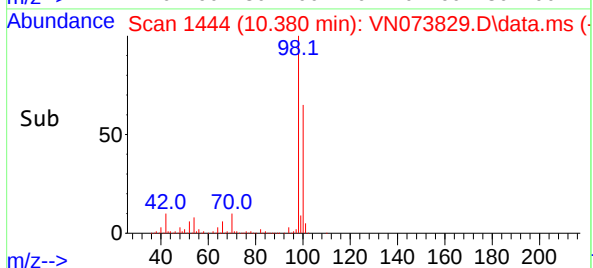
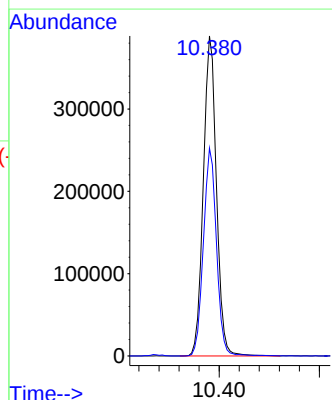
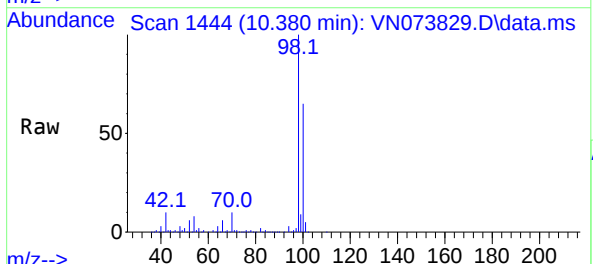
Instrument :
MSVOA_N
ClientSampleId :
PB146912ZHE#04

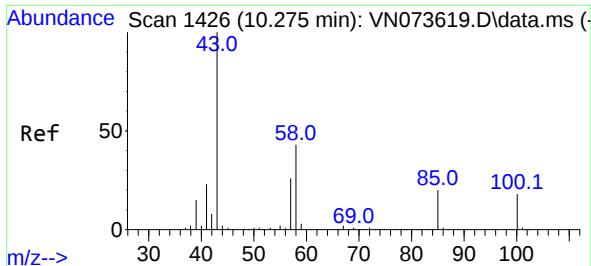
Tgt Ion: 88 Resp: 144
Ion Ratio Lower Upper
88 100
43 0.0 20.2 30.4#
58 0.0 54.2 81.4#



#50
Toluene-d8
Concen: 45.754 ug/l
RT: 10.380 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN073829.D
Acq: 11 Aug 2022 16:53

Tgt Ion: 98 Resp: 705376
Ion Ratio Lower Upper
98 100
100 64.7 52.6 78.8

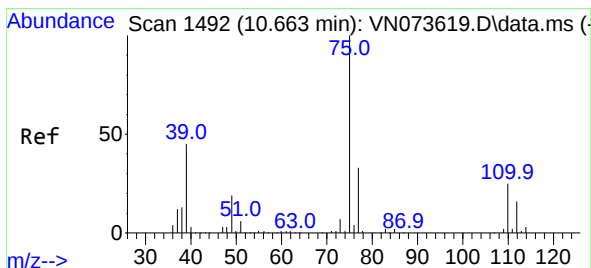
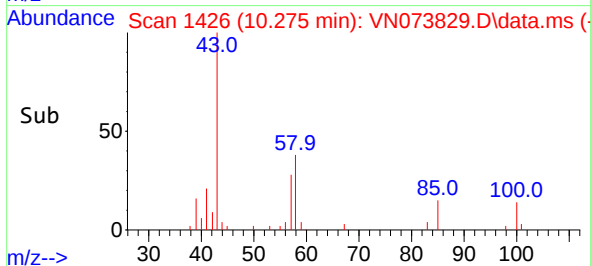
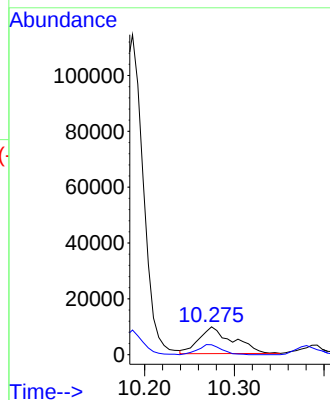
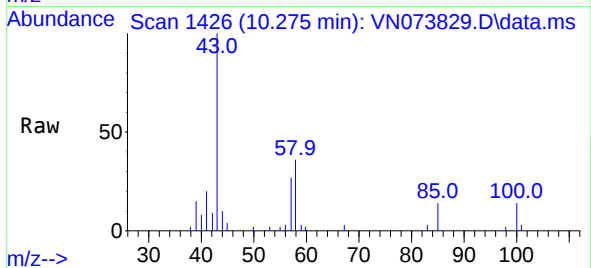




#51
4-Methyl-2-Pentanone
Concen: 3.509 ug/l
RT: 10.275 min Scan# 1426
Delta R.T. -0.000 min
Lab File: VN073829.D
Acq: 11 Aug 2022 16:53

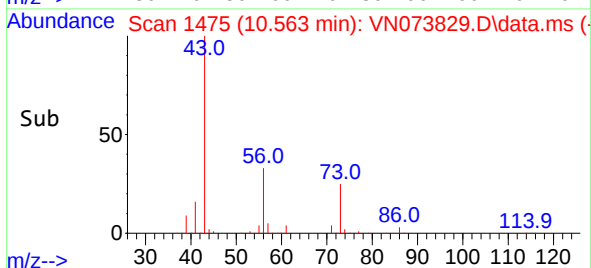
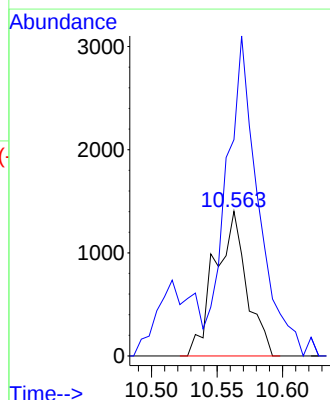
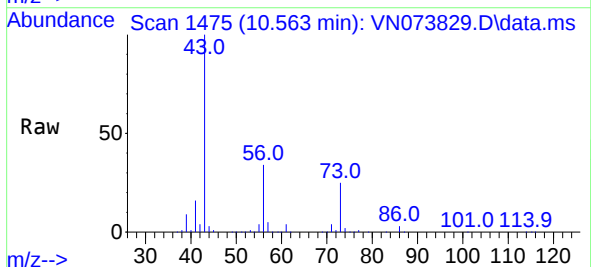
Instrument :
MSVOA_N
ClientSampleId :
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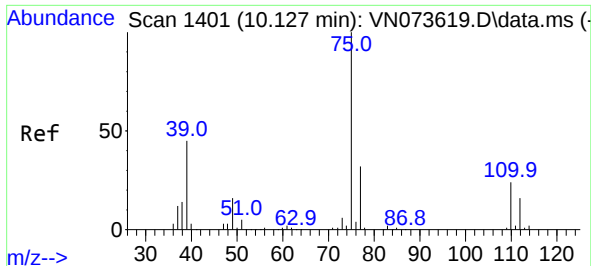
Tgt Ion: 43 Resp: 24996
Ion Ratio Lower Upper
43 100
58 26.0 34.1 51.1#



#53
t-1,3-Dichloropropene
Concen: 0.395 ug/l
RT: 10.563 min Scan# 1475
Delta R.T. -0.100 min
Lab File: VN073829.D
Acq: 11 Aug 2022 16:53

Tgt Ion: 75 Resp: 2358
Ion Ratio Lower Upper
75 100
77 120.5 25.6 38.4#

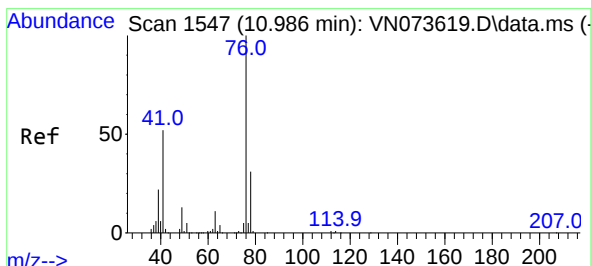
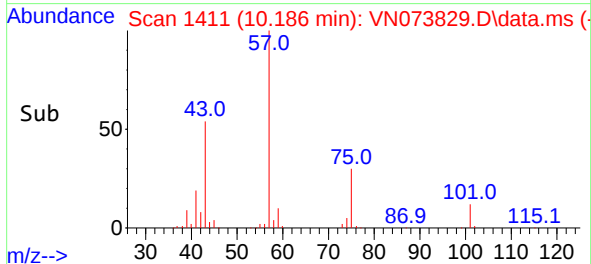
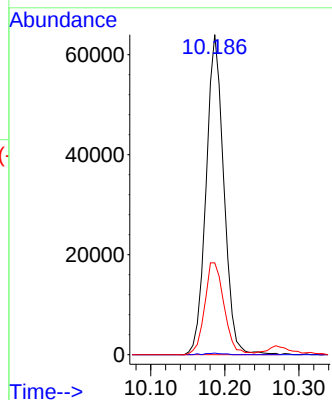
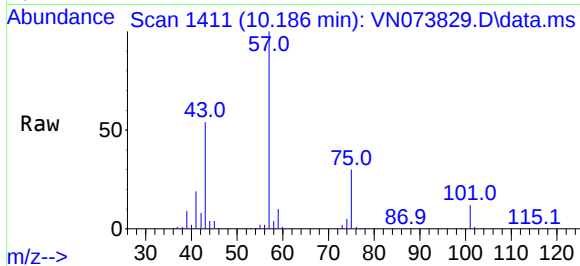




#54
cis-1,3-Dichloropropene
Concen: 15.809 ug/l
RT: 10.186 min Scan# 14
Delta R.T. 0.059 min
Lab File: VN073829.D
Acq: 11 Aug 2022 16:53

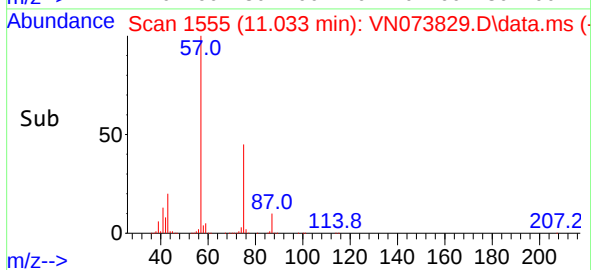
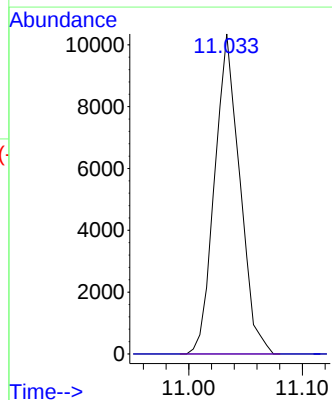
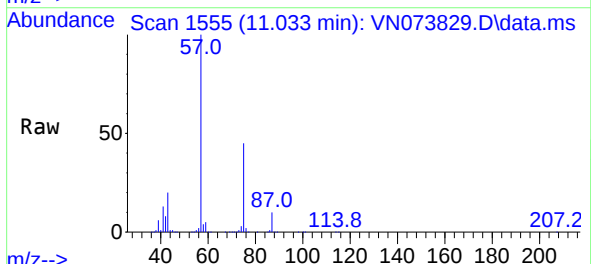
Instrument :
MSVOA_N
ClientSampleId :
PB146912ZHE#04

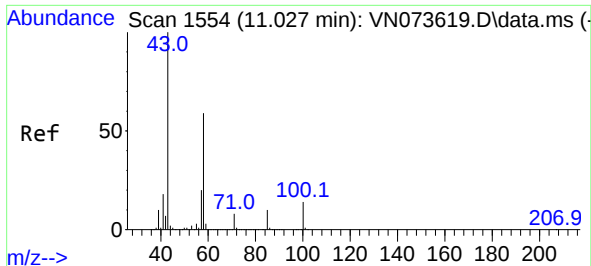
Tgt Ion: 75 Resp: 106250
Ion Ratio Lower Upper
75 100
77 0.5 25.2 37.8#
39 28.7 35.7 53.5#



#57
1,3-Dichloropropane
Concen: 2.032 ug/l
RT: 11.033 min Scan# 1555
Delta R.T. 0.047 min
Lab File: VN073829.D
Acq: 11 Aug 2022 16:53

Tgt Ion: 76 Resp: 15920
Ion Ratio Lower Upper
76 100
78 0.0 26.2 39.2#

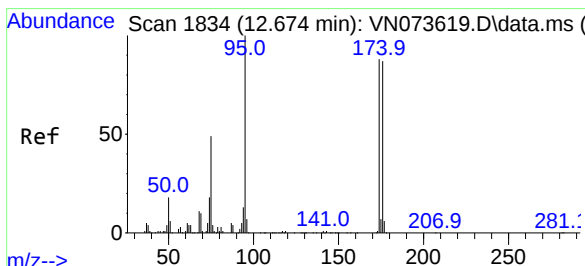
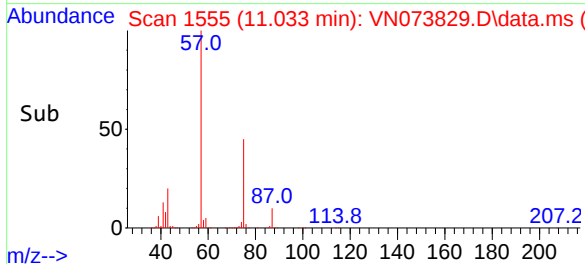
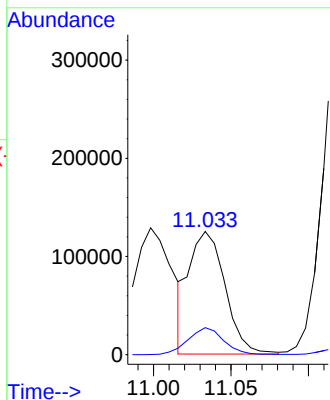
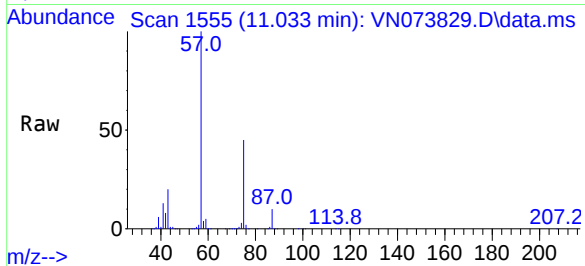




#59
2-Hexanone
Concen: 37.352 ug/l
RT: 11.033 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN073829.D
Acq: 11 Aug 2022 16:53

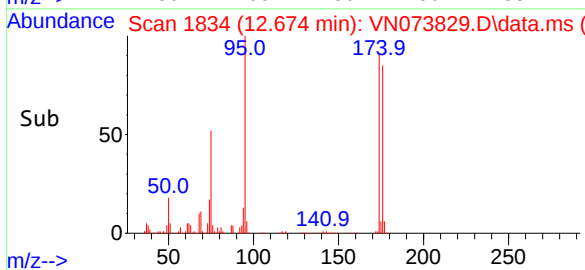
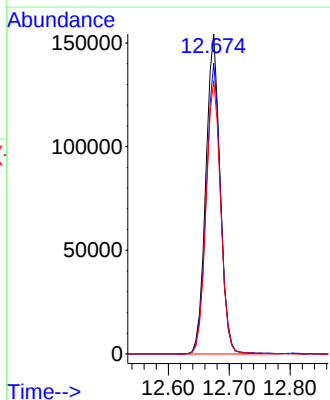
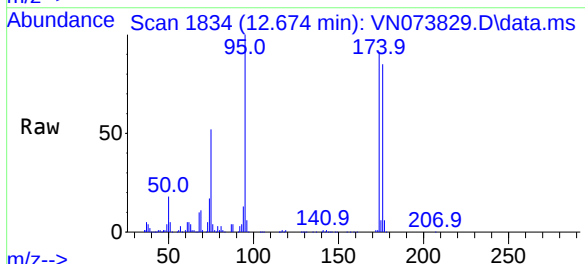
Instrument :
MSVOA_N
ClientSampleId :
PB146912ZHE#04

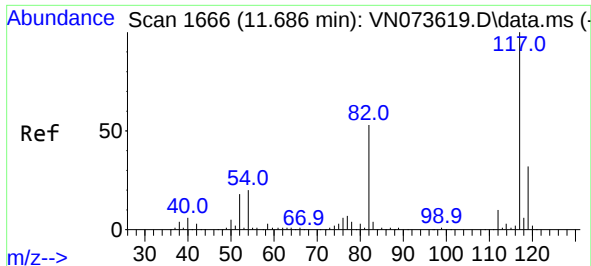
Tgt Ion: 43 Resp: 201600
Ion Ratio Lower Upper
43 100
58 22.0 29.7 89.1#



#62
4-Bromofluorobenzene
Concen: 46.477 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.000 min
Lab File: VN073829.D
Acq: 11 Aug 2022 16:53

Tgt Ion: 95 Resp: 250421
Ion Ratio Lower Upper
95 100
174 92.0 0.0 167.6
176 87.5 0.0 163.4

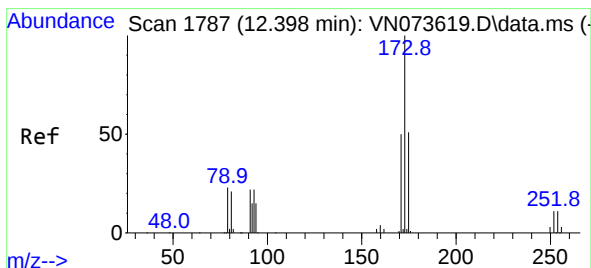
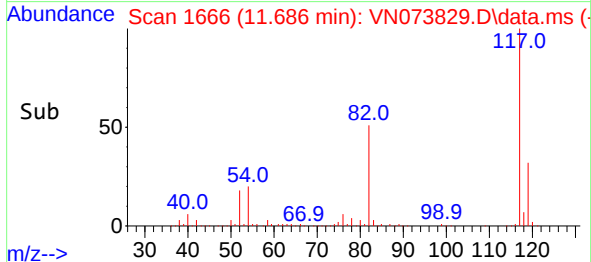
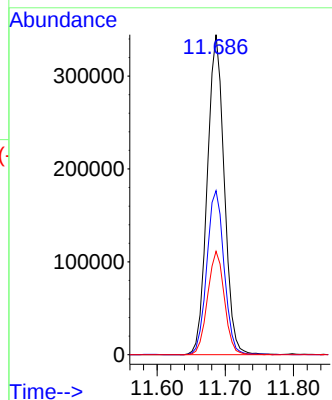
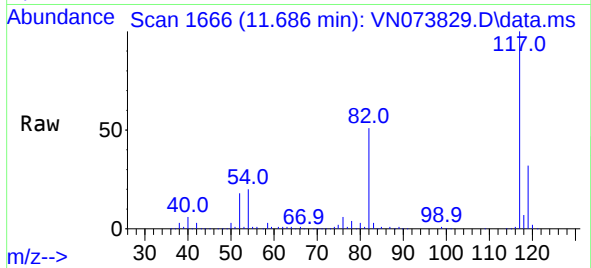




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.686 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN073829.D
Acq: 11 Aug 2022 16:53

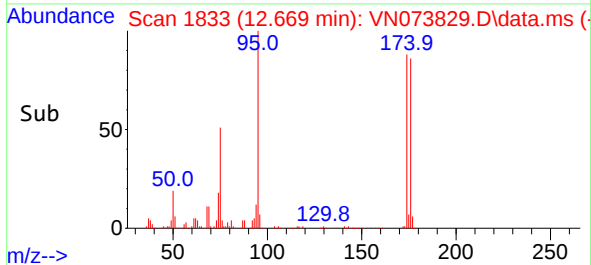
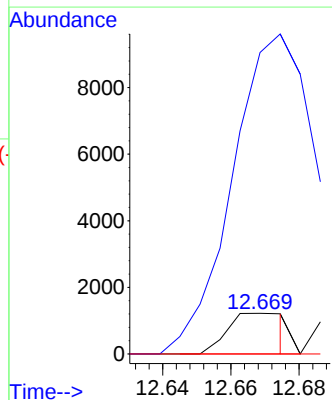
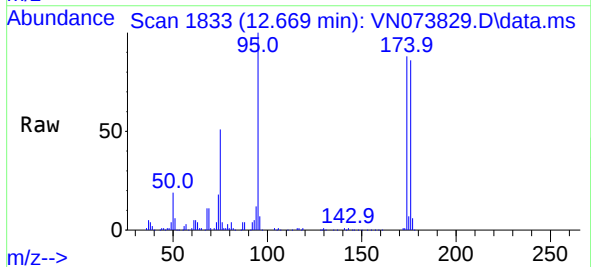
Instrument :
MSVOA_N
ClientSampleId :
PB146912ZHE#04

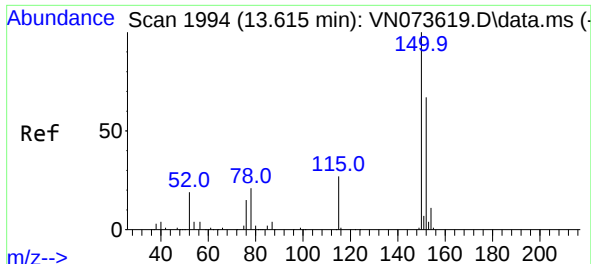
Tgt Ion:117 Resp: 597090
Ion Ratio Lower Upper
117 100
82 51.2 44.2 66.2
119 32.3 25.4 38.0



#71
Bromoform
Concen: 0.383 ug/l
RT: 12.669 min Scan# 1833
Delta R.T. 0.271 min
Lab File: VN073829.D
Acq: 11 Aug 2022 16:53

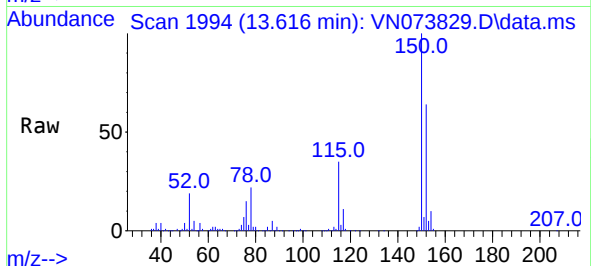
Tgt Ion:173 Resp: 1439
Ion Ratio Lower Upper
173 100
175 0.0 24.6 73.6#
254 0.0 0.1 0.1#



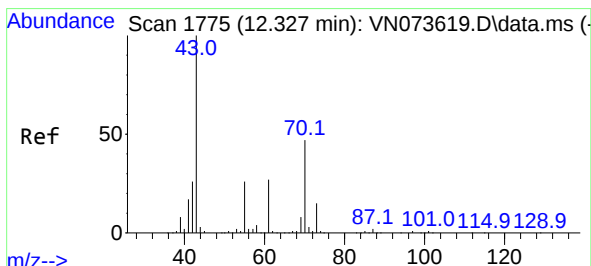
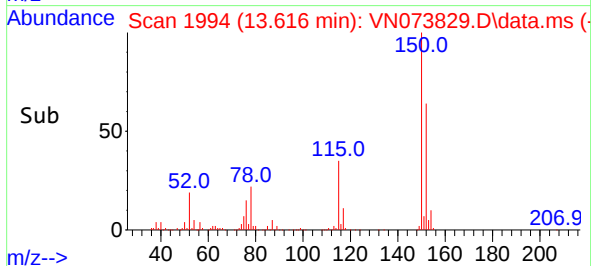
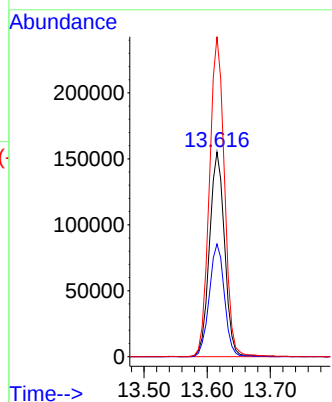


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.616 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VN073829.D
Acq: 11 Aug 2022 16:53

Instrument :
MSVOA_N
ClientSampleId :
PB146912ZHE#04

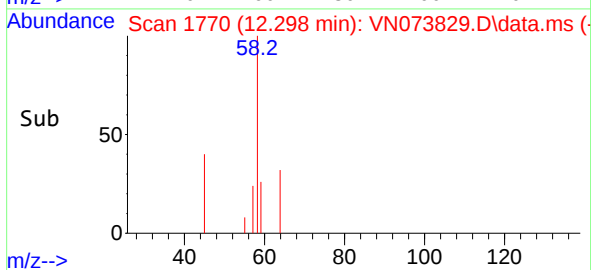
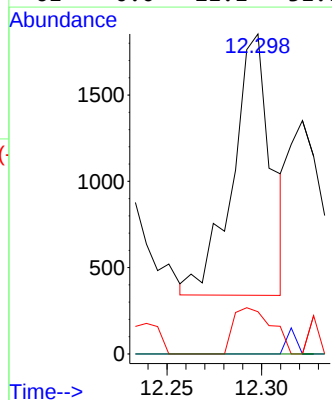
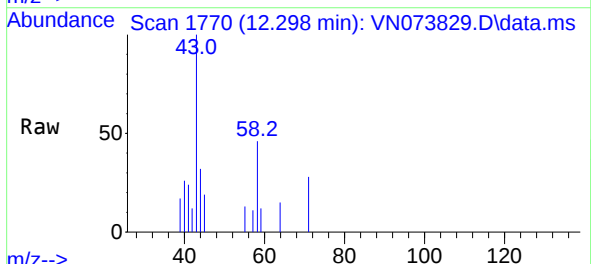


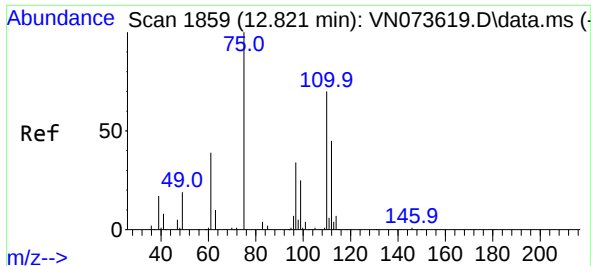
Tgt Ion:152 Resp: 257762
Ion Ratio Lower Upper
152 100
115 55.4 28.9 86.7
150 156.0 0.0 356.2



#74
N-ethyl acetate
Concen: 0.301 ug/l
RT: 12.298 min Scan# 1770
Delta R.T. -0.029 min
Lab File: VN073829.D
Acq: 11 Aug 2022 16:53

Tgt Ion: 43 Resp: 2145
Ion Ratio Lower Upper
43 100
70 0.0 39.0 58.4#
55 17.7 21.1 31.7#
61 0.0 21.1 31.7#

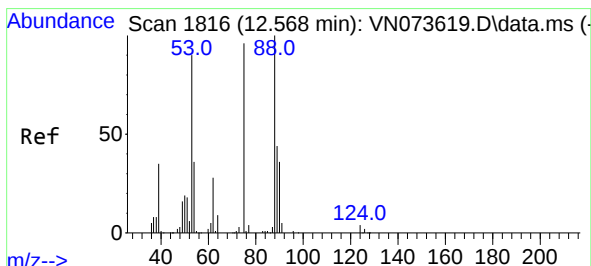
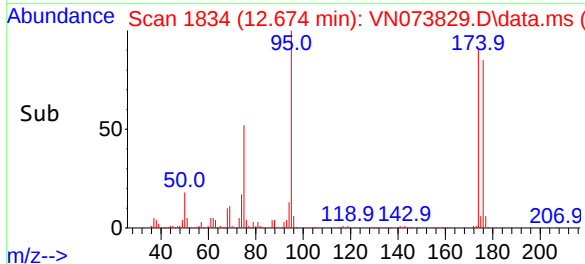
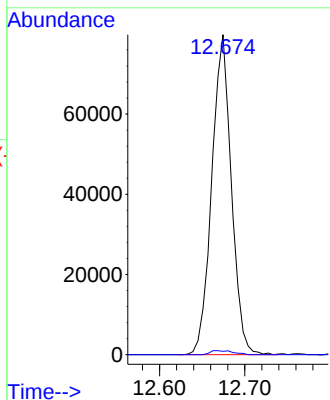
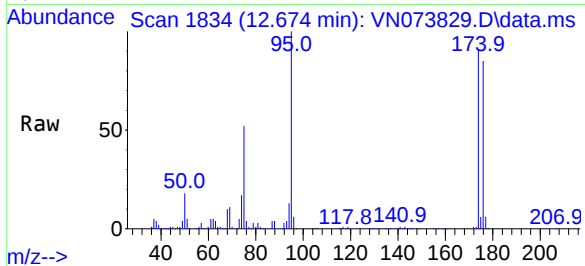




#76
1,2,3-Trichloropropane
Concen: 25.390 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. -0.147 min
Lab File: VN073829.D
Acq: 11 Aug 2022 16:53

Instrument :
MSVOA_N
ClientSampleId :
PB146912ZHE#04

Tgt Ion: 75 Resp: 127386
Ion Ratio Lower Upper
75 100
77 1.5 98.5 295.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 64.045 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.106 min
Lab File: VN073829.D
Acq: 11 Aug 2022 16:53

Tgt Ion: 75 Resp: 127386
Ion Ratio Lower Upper
75 100
53 0.1 78.0 117.0#
89 0.0 37.2 55.8#

