

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081122\
 Data File : VN073827.D
 Acq On : 11 Aug 2022 16:03
 Operator : JC\MD
 Sample : PB146912ZHE#02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB146912ZHE#02

Quant Time: Aug 12 06:03:28 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)

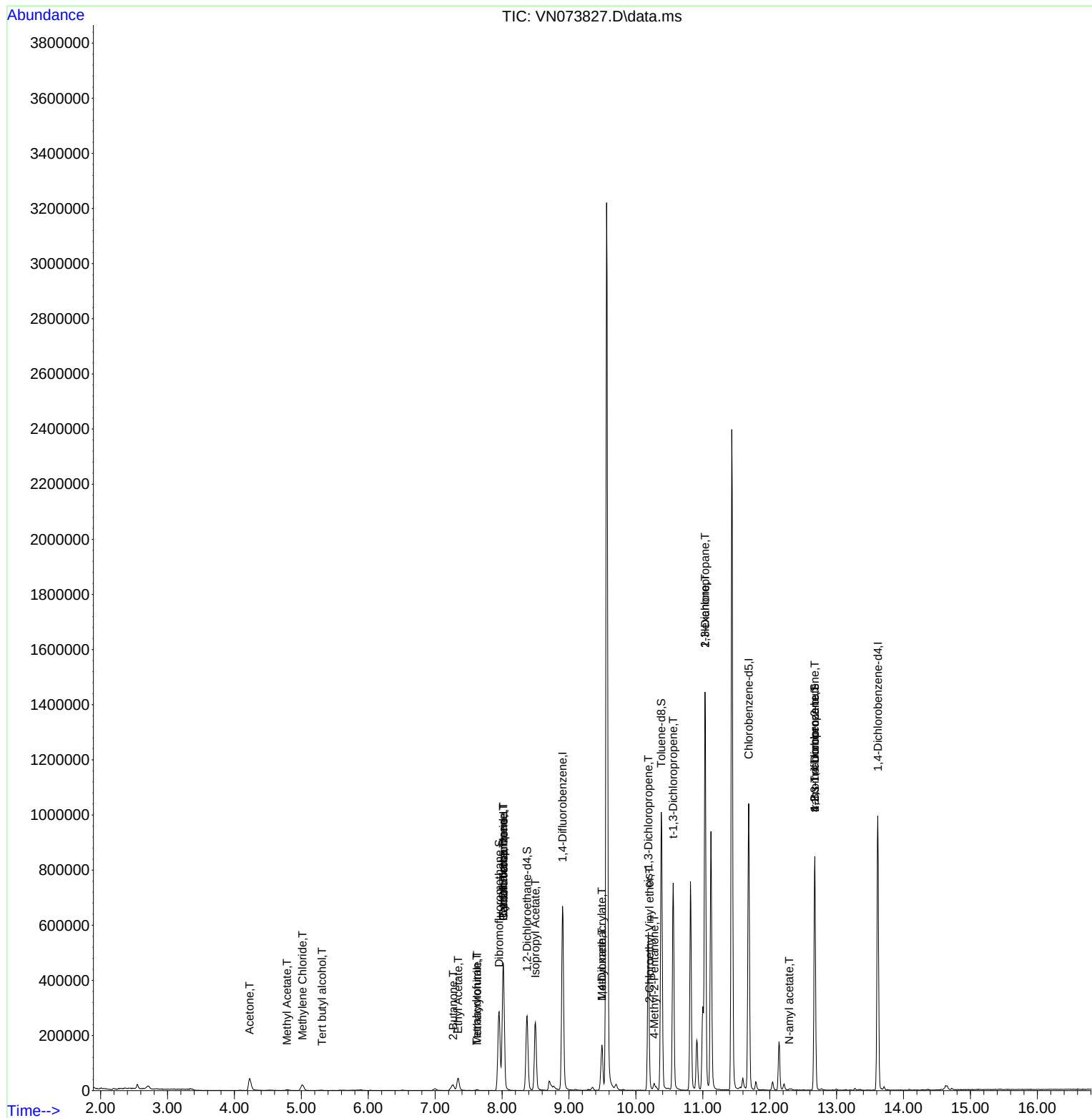
Internal Standards						
1) Pentafluorobenzene	8.022	168	381578	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	615795	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	618508	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.615	152	288789	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.375	65	226405	48.688	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	97.380%		
35) Dibromofluoromethane	7.957	113	214991	55.599	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	111.200%		
50) Toluene-d8	10.380	98	721602	47.423	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	94.840%		
62) 4-Bromofluorobenzene	12.674	95	270976	50.689	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	101.380%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.263	50	738	Below Cal	#	62
6) Chloroethane	2.957	64	59	Below Cal	#	42
11) Tert butyl alcohol	5.310	59	2951	2.943	ug/l #	78
16) Acetone	4.228	43	81237	32.526	ug/l	95
18) Methyl Acetate	4.787	43	6559	1.056	ug/l	93
20) Methylene Chloride	5.016	84	16995	2.095	ug/l	96
25) 2-Butanone	7.269	43	25812	6.655	ug/l	96
29) Tetrahydrofuran	7.622	42	2243	0.915	ug/l #	88
31) Cyclohexane	8.016	56	6804	0.983	ug/l #	25
36) 1,1-Dichloropropene	8.016	75	27274	4.949	ug/l #	48
37) Ethyl Acetate	7.345	43	70842	9.761	ug/l	99
38) Carbon Tetrachloride	8.022	117	33230	5.937	ug/l #	18
41) Methacrylonitrile	7.628	41	1522	0.463	ug/l #	31
43) Isopropyl Acetate	8.498	43	277971	28.355	ug/l #	92
48) Methyl methacrylate	9.492	41	10393	2.422	ug/l #	38
49) 1,4-Dioxane	9.492	88	65	0.537	ug/l #	1
51) 4-Methyl-2-Pentanone	10.274	43	23458	3.336	ug/l #	77
53) t-1,3-Dichloropropene	10.557	75	2263	0.384	ug/l #	1
54) cis-1,3-Dichloropropene	10.186	75	105087	15.842	ug/l #	65
57) 1,3-Dichloropropane	11.033	76	15018	1.942	ug/l #	42
58) 2-Chloroethyl Vinyl ether	10.204	63	62	9.960	ug/l #	44
59) 2-Hexanone	11.033	43	198476	37.257	ug/l #	50
74) N-amyl acetate	12.292	43	1821	0.228	ug/l #	47
76) 1,2,3-Trichloropropane	12.674	75	137823	24.401	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.674	75	137823	61.848	ug/l #	11

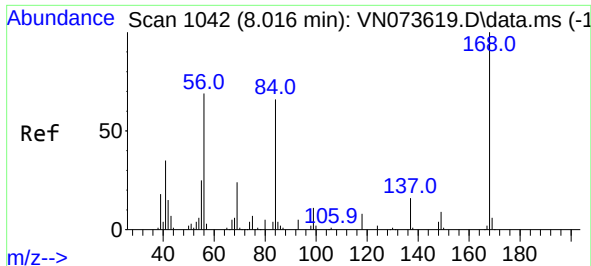
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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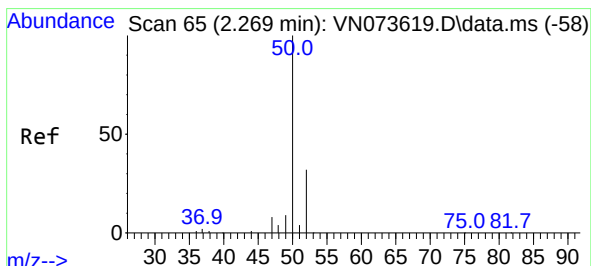
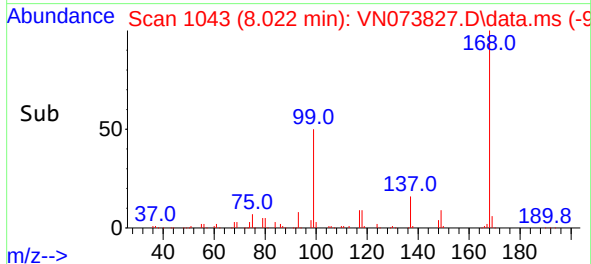
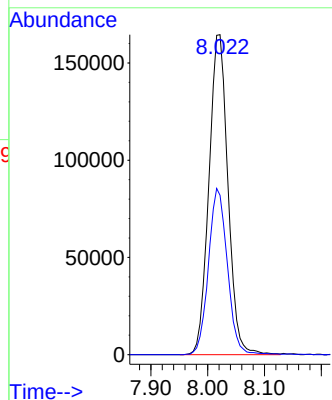
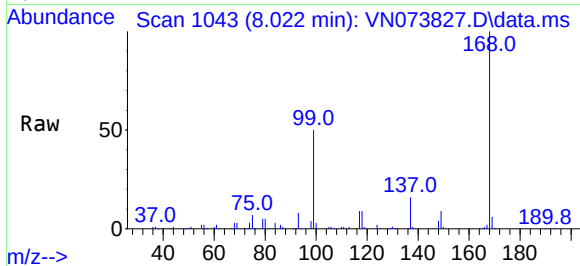




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.022 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN073827.D
Acq: 11 Aug 2022 16:03

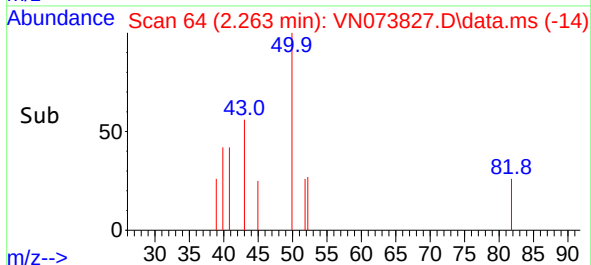
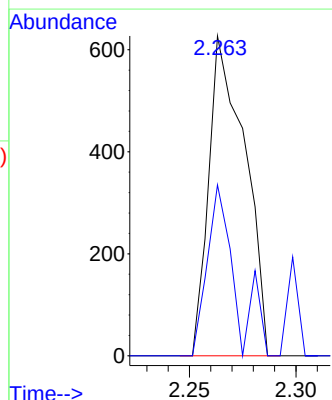
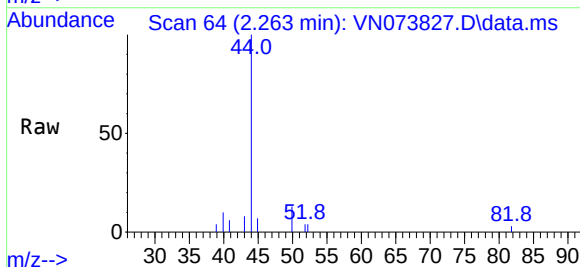
Instrument :
MSVOA_N
ClientSampleId :
PB146912ZHE#02

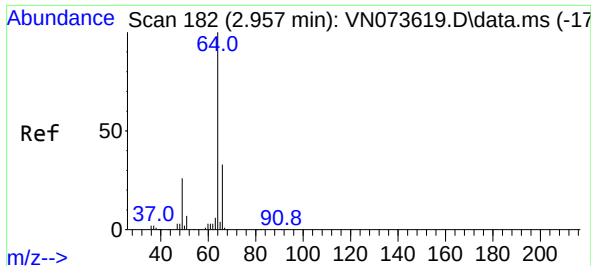
Tgt Ion:168 Resp: 381578
Ion Ratio Lower Upper
168 100
99 49.8 42.3 63.5



#3
Chloromethane
Concen: Below Cal
RT: 2.263 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN073827.D
Acq: 11 Aug 2022 16:03

Tgt Ion: 50 Resp: 738
Ion Ratio Lower Upper
50 100
52 53.4 25.7 38.5#

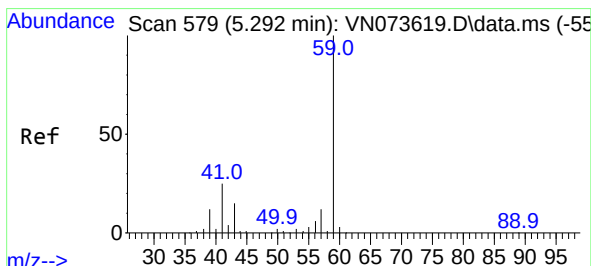
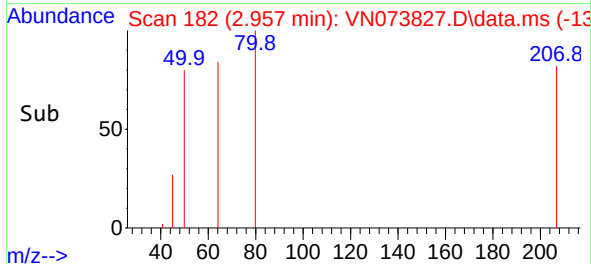
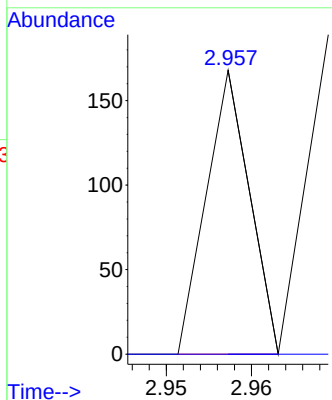
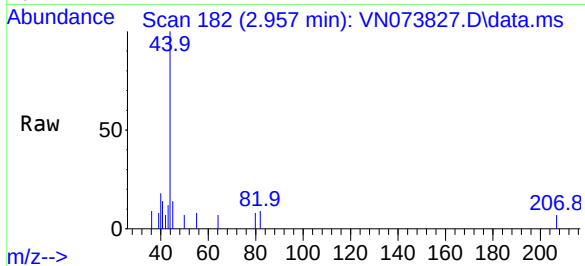




#6
Chloroethane
Concen: Below Cal
RT: 2.957 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN073827.D
Acq: 11 Aug 2022 16:03

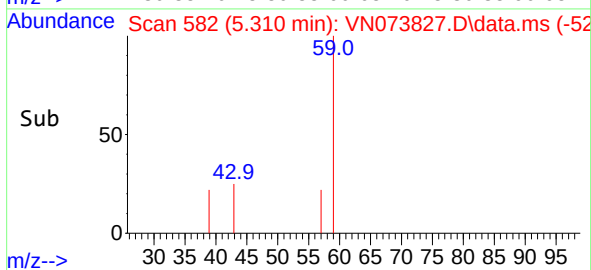
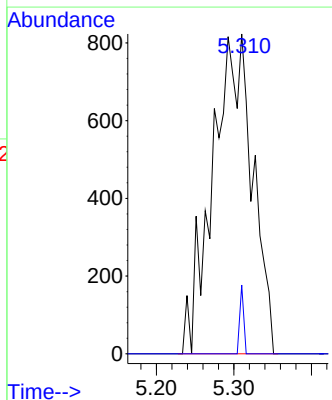
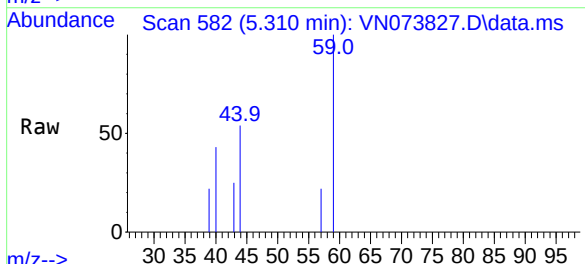
Instrument :
MSVOA_N
ClientSampleId :
PB146912ZHE#02

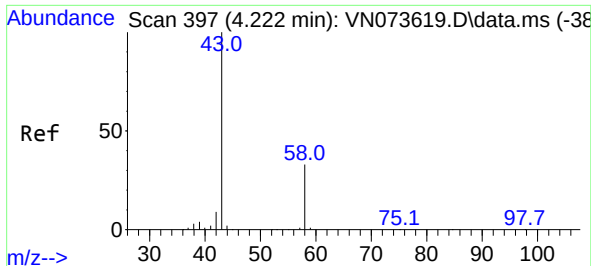
Tgt Ion: 64 Resp: 59
Ion Ratio Lower Upper
64 100
66 0.0 26.2 39.4#



#11
Tert butyl alcohol
Concen: 2.943 ug/l
RT: 5.310 min Scan# 582
Delta R.T. 0.018 min
Lab File: VN073827.D
Acq: 11 Aug 2022 16:03

Tgt Ion: 59 Resp: 2951
Ion Ratio Lower Upper
59 100
57 2.1 8.3 12.5#

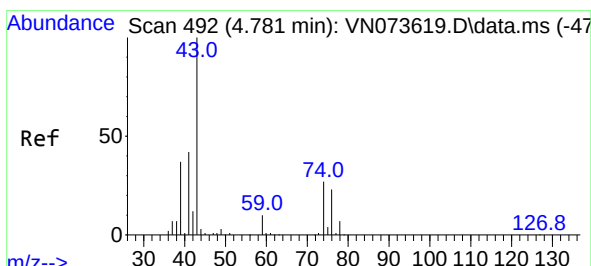
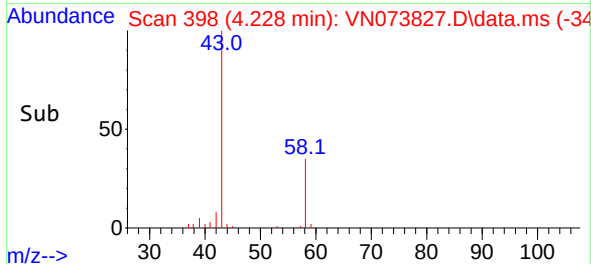
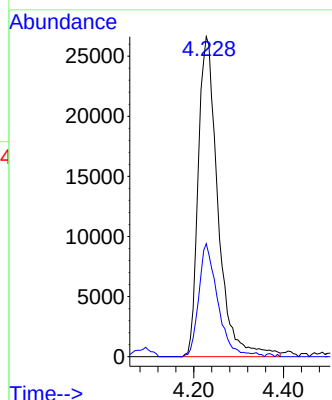
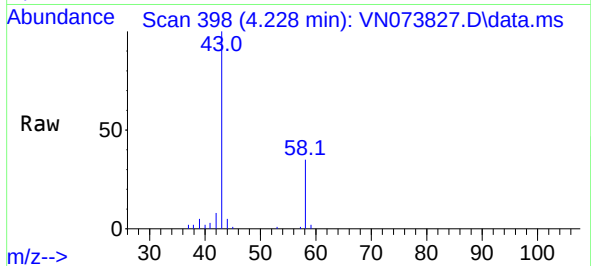




#16
Acetone
Concen: 32.526 ug/l
RT: 4.228 min Scan# 397
Delta R.T. 0.006 min
Lab File: VN073827.D
Acq: 11 Aug 2022 16:03

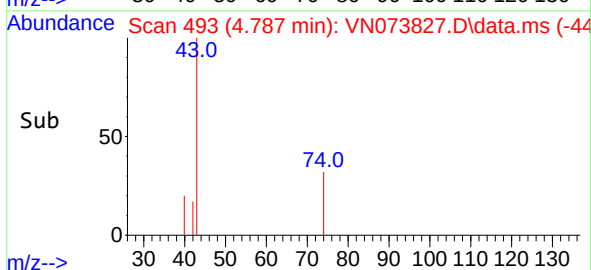
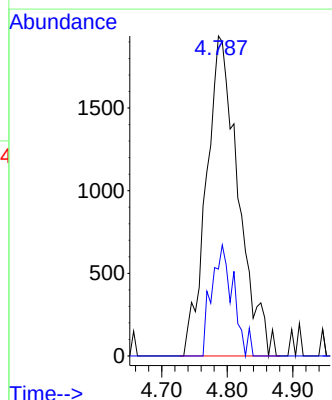
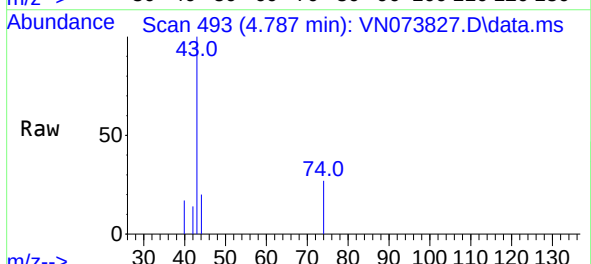
Instrument :
MSVOA_N
ClientSampleId :
PB146912ZHE#02

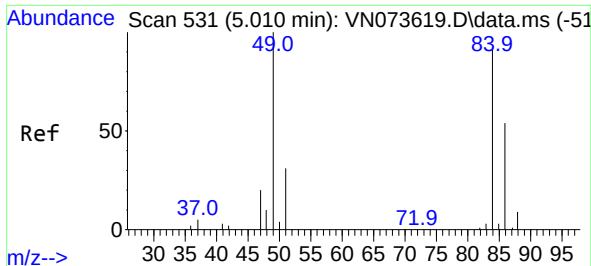
Tgt Ion: 43 Resp: 81237
Ion Ratio Lower Upper
43 100
58 35.3 26.0 39.0



#18
Methyl Acetate
Concen: 1.056 ug/l
RT: 4.787 min Scan# 493
Delta R.T. 0.006 min
Lab File: VN073827.D
Acq: 11 Aug 2022 16:03

Tgt Ion: 43 Resp: 6559
Ion Ratio Lower Upper
43 100
74 23.4 21.6 32.4



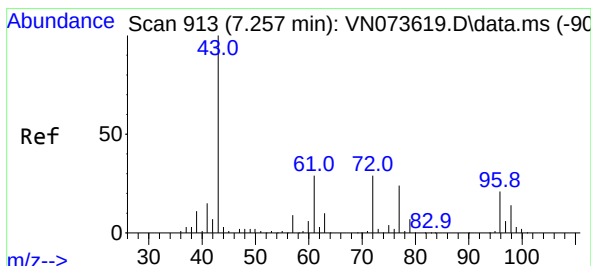
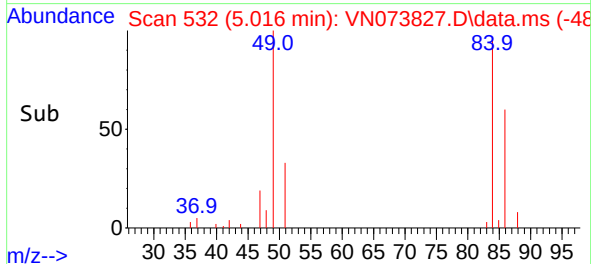
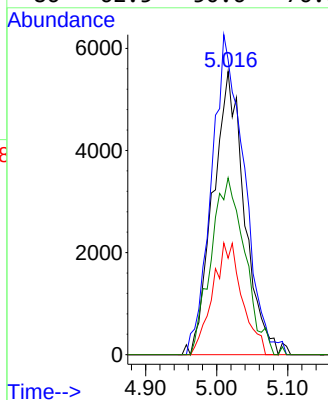
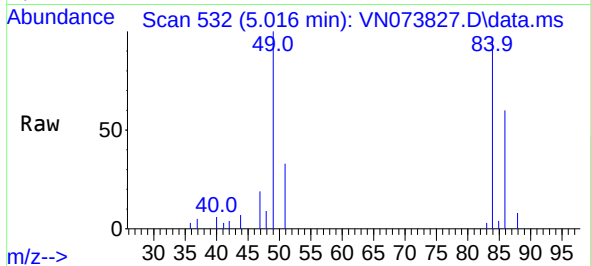


#20
Methylene Chloride
Concen: 2.095 ug/l
RT: 5.016 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN073827.D
Acq: 11 Aug 2022 16:03

Instrument :
MSVOA_N
ClientSampleId :
PB146912ZHE#02

Tgt Ion: 84 Resp: 16995

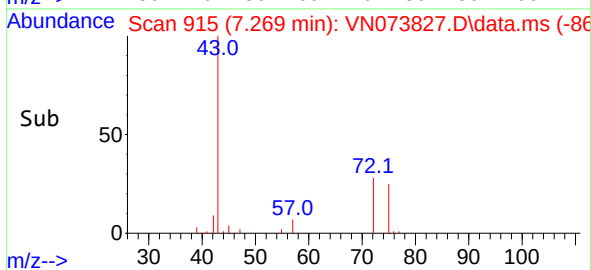
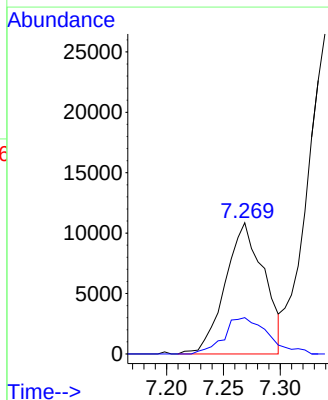
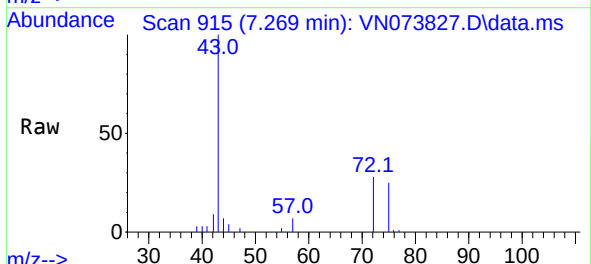
Ion	Ratio	Lower	Upper
84	100		
49	104.1	88.3	132.5
51	34.1	28.2	42.2
86	62.5	50.6	76.0

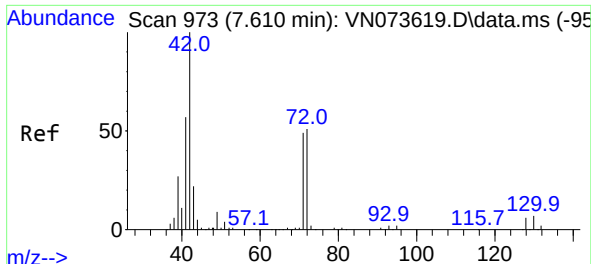


#25
2-Butanone
Concen: 6.655 ug/l
RT: 7.269 min Scan# 915
Delta R.T. 0.012 min
Lab File: VN073827.D
Acq: 11 Aug 2022 16:03

Tgt Ion: 43 Resp: 25812

Ion	Ratio	Lower	Upper
43	100		
72	27.7	23.7	35.5

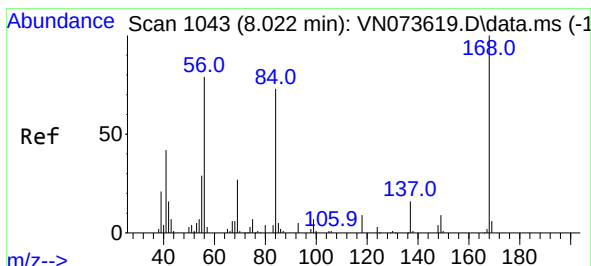
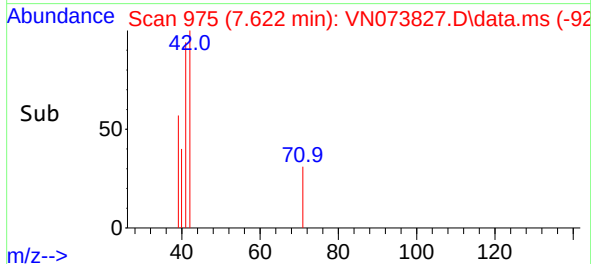
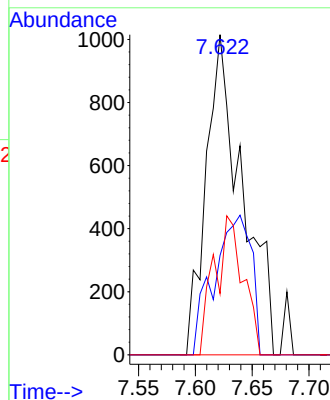
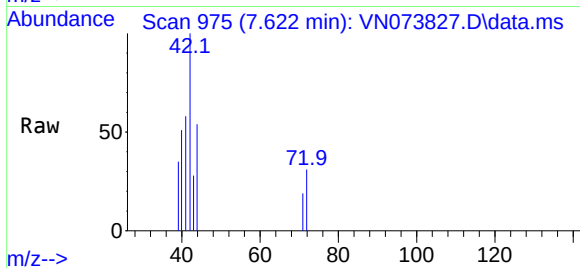




#29
Tetrahydrofuran
Concen: 0.915 ug/l
RT: 7.622 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN073827.D
Acq: 11 Aug 2022 16:03

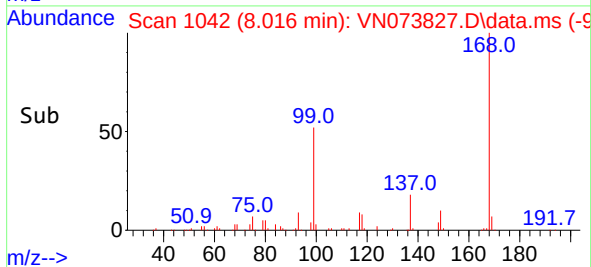
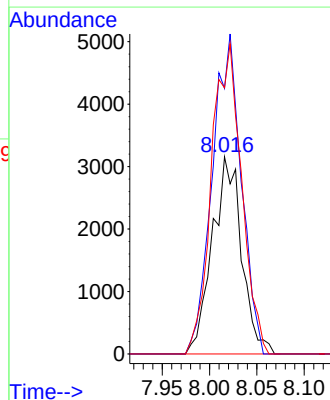
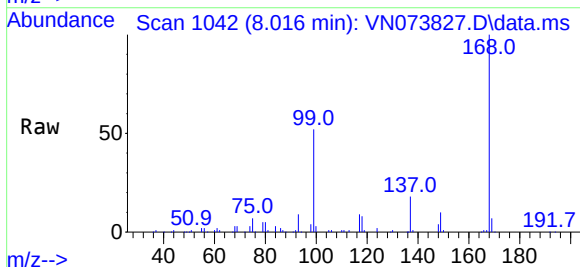
Instrument :
MSVOA_N
ClientSampleId :
PB146912ZHE#02

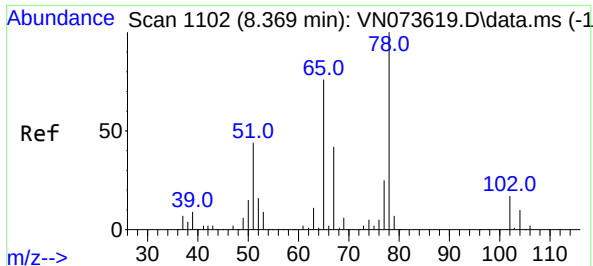
Tgt Ion:	42	Resp:	2243
Ion	Ratio	Lower	Upper
42	100		
72	45.2	39.7	59.5
71	34.6	36.6	55.0#



#31
Cyclohexane
Concen: 0.983 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.006 min
Lab File: VN073827.D
Acq: 11 Aug 2022 16:03

Tgt Ion:	56	Resp:	6804
Ion	Ratio	Lower	Upper
56	100		
69	134.8	27.8	41.8#
84	135.0	76.9	115.3#

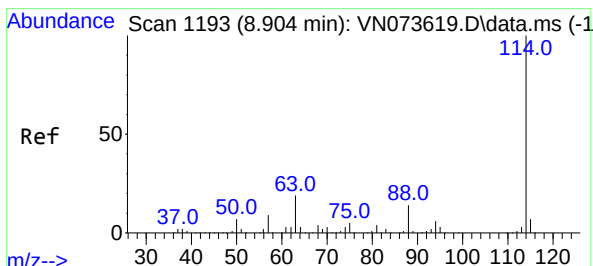
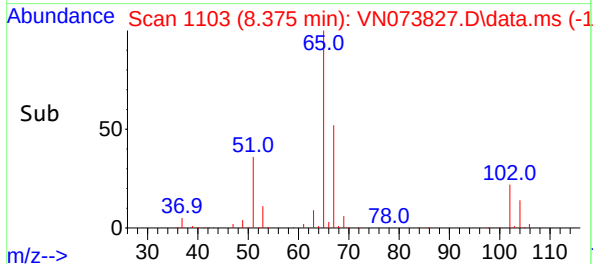
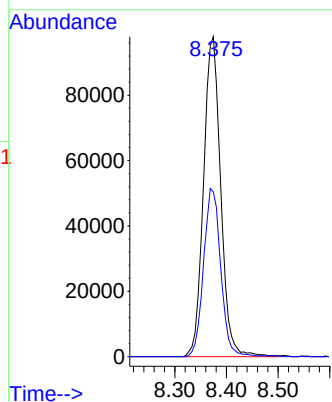
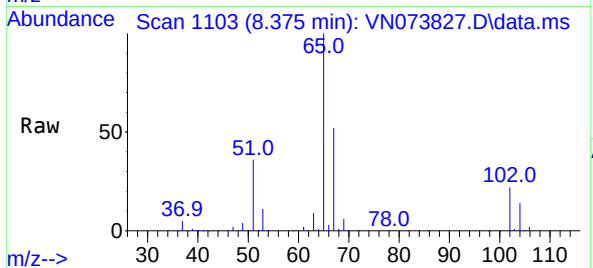




#33
1,2-Dichloroethane-d4
Concen: 48.688 ug/l
RT: 8.375 min Scan# 1102
Delta R.T. 0.006 min
Lab File: VN073827.D
Acq: 11 Aug 2022 16:03

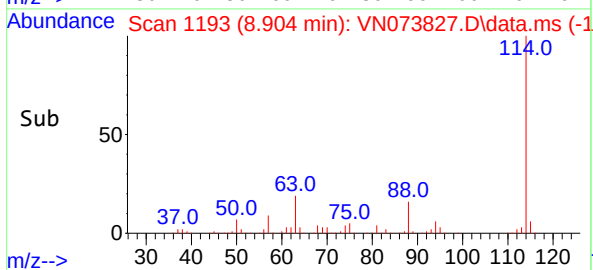
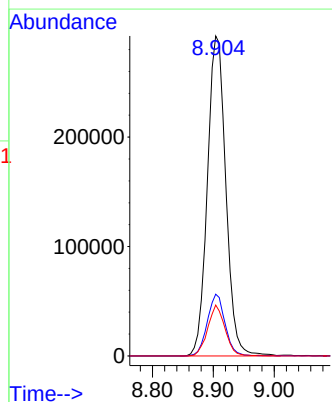
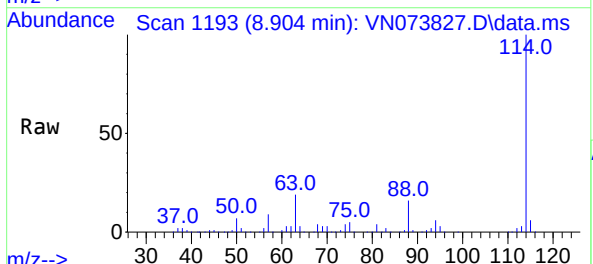
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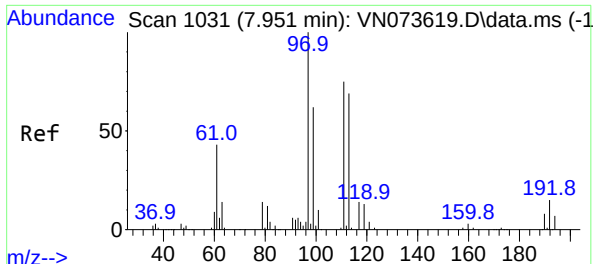
Tgt Ion: 65 Resp: 226405
Ion Ratio Lower Upper
65 100
67 52.4 0.0 104.8



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.904 min Scan# 1193
Delta R.T. -0.000 min
Lab File: VN073827.D
Acq: 11 Aug 2022 16:03

Tgt Ion: 114 Resp: 615795
Ion Ratio Lower Upper
114 100
63 19.3 0.0 40.0
88 15.9 0.0 32.6

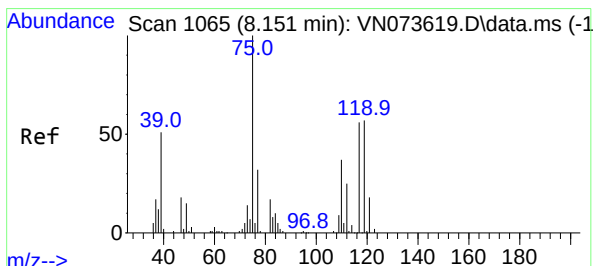
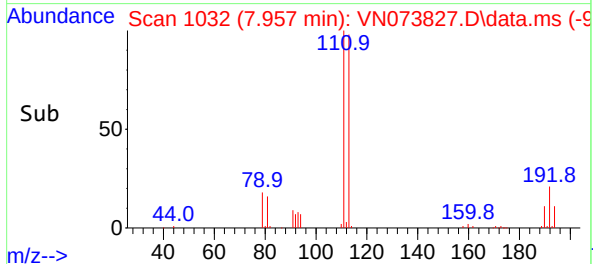
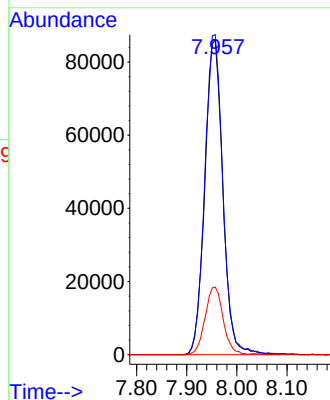
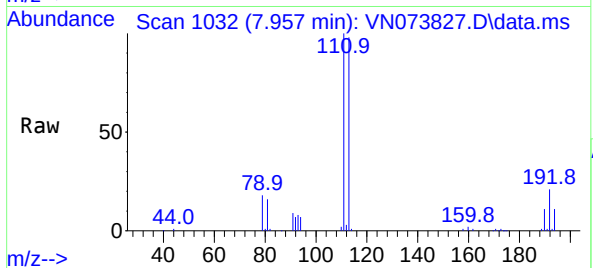




#35
Dibromofluoromethane
Concen: 55.599 ug/l
RT: 7.957 min Scan# 1031
Delta R.T. 0.006 min
Lab File: VN073827.D
Acq: 11 Aug 2022 16:03

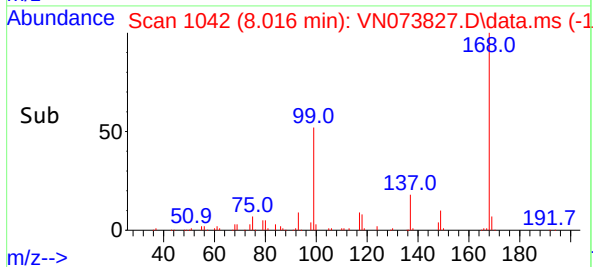
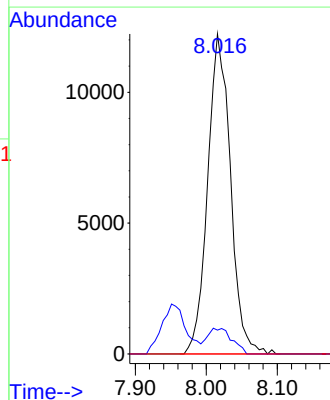
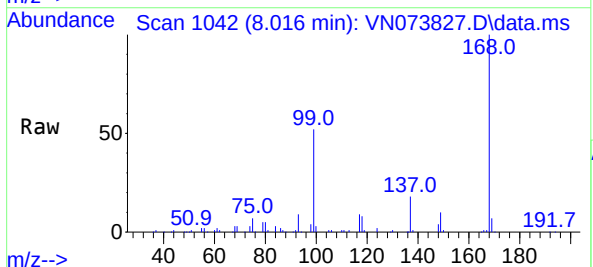
Instrument :
MSVOA_N
ClientSampleId :
PB146912ZHE#02

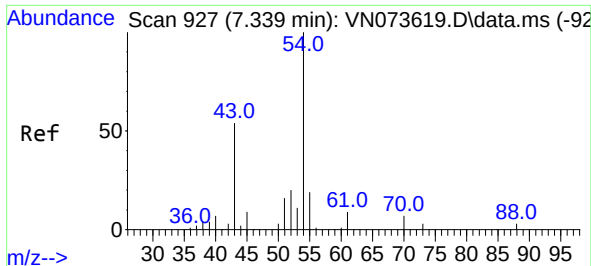
Tgt Ion:113 Resp: 214991
Ion Ratio Lower Upper
113 100
111 102.0 81.4 122.0
192 21.6 17.0 25.6



#36
1,1-Dichloropropene
Concen: 4.949 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.135 min
Lab File: VN073827.D
Acq: 11 Aug 2022 16:03

Tgt Ion: 75 Resp: 27274
Ion Ratio Lower Upper
75 100
110 8.6 18.3 54.8#
77 0.0 25.1 37.7#

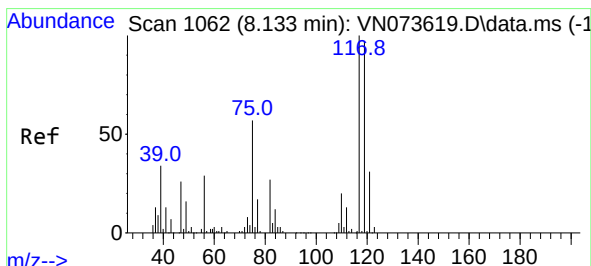
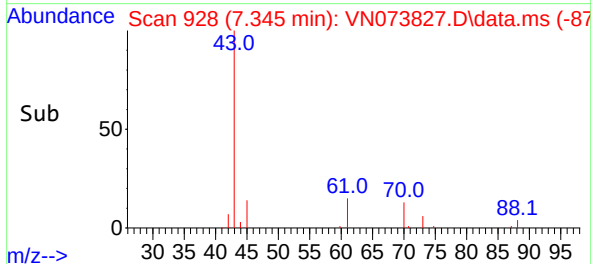
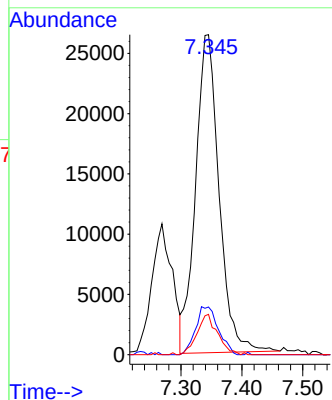
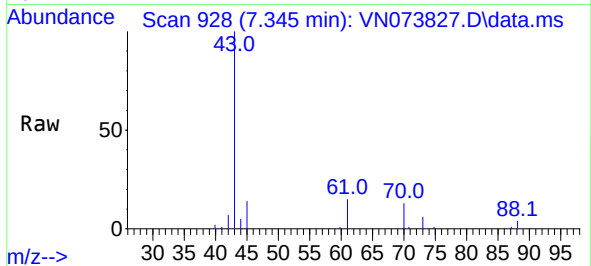




#37
Ethyl Acetate
Concen: 9.761 ug/l
RT: 7.345 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN073827.D
Acq: 11 Aug 2022 16:03

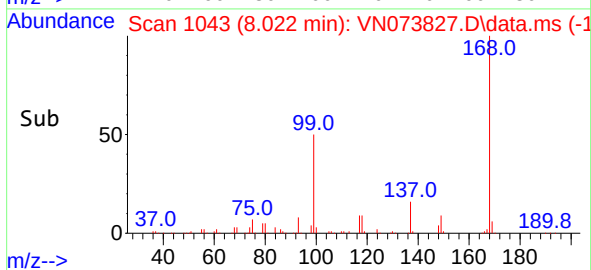
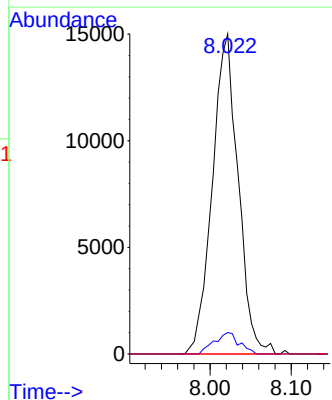
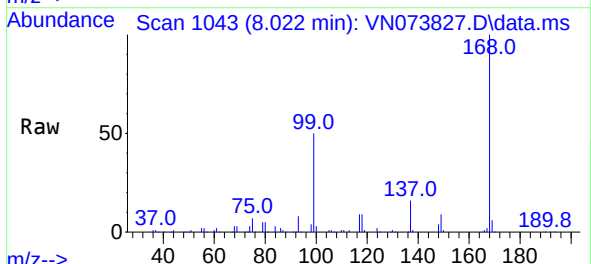
Instrument :
MSVOA_N
ClientSampleId :
PB146912ZHE#02

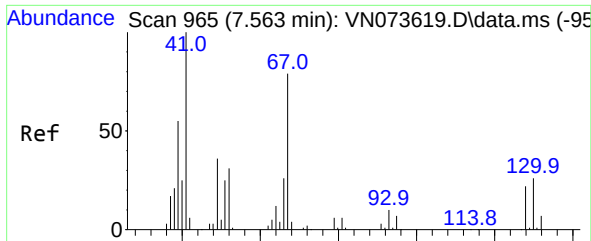
Tgt Ion: 43 Resp: 70842
Ion Ratio Lower Upper
43 100
61 14.6 11.8 17.6
70 11.1 9.3 13.9



#38
Carbon Tetrachloride
Concen: 5.937 ug/l
RT: 8.022 min Scan# 1043
Delta R.T. -0.112 min
Lab File: VN073827.D
Acq: 11 Aug 2022 16:03

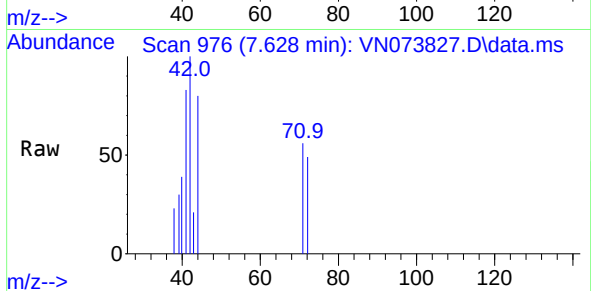
Tgt Ion: 117 Resp: 33230
Ion Ratio Lower Upper
117 100
119 6.7 75.8 113.8#
121 0.0 24.6 37.0#



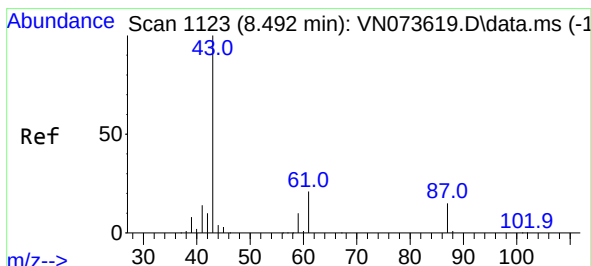
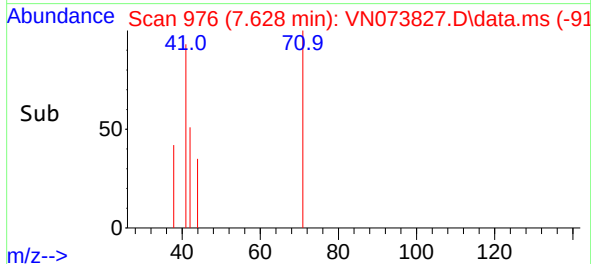
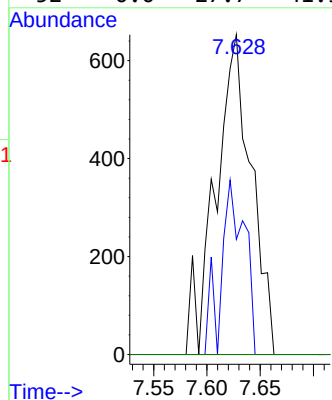


#41
Methacrylonitrile
Concen: 0.463 ug/l
RT: 7.628 min Scan# 91
Delta R.T. 0.065 min
Lab File: VN073827.D
Acq: 11 Aug 2022 16:03

Instrument :
MSVOA_N
ClientSampleId :
PB146912ZHE#02

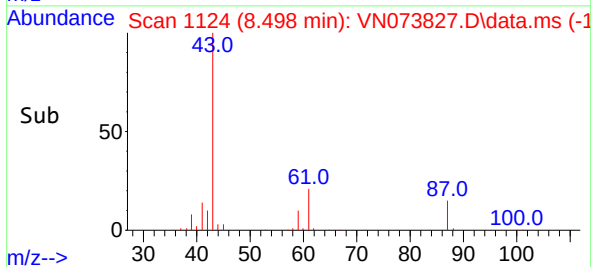
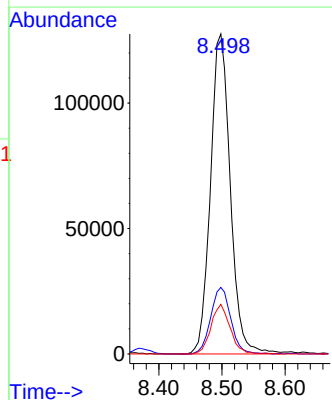
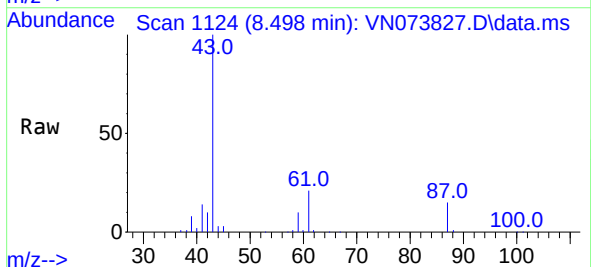


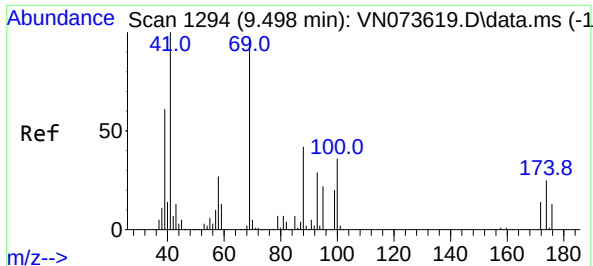
Tgt Ion: 41 Resp: 1522
Ion Ratio Lower Upper
41 100
39 35.9 48.6 73.0#
67 0.0 73.4 110.2#
52 0.0 27.7 41.5#



#43
Isopropyl Acetate
Concen: 28.355 ug/l
RT: 8.498 min Scan# 1124
Delta R.T. 0.006 min
Lab File: VN073827.D
Acq: 11 Aug 2022 16:03

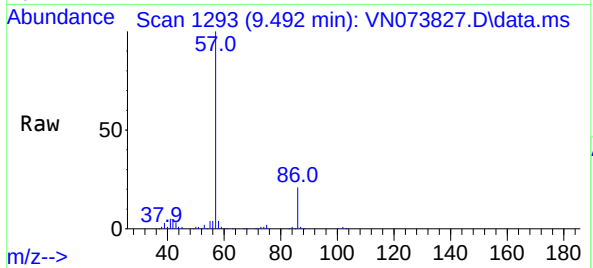
Tgt Ion: 43 Resp: 277971
Ion Ratio Lower Upper
43 100
61 21.1 21.9 32.9#
87 14.9 12.0 18.0



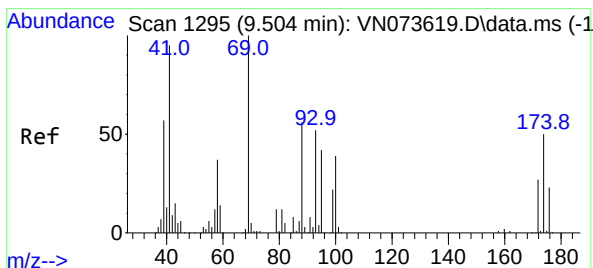
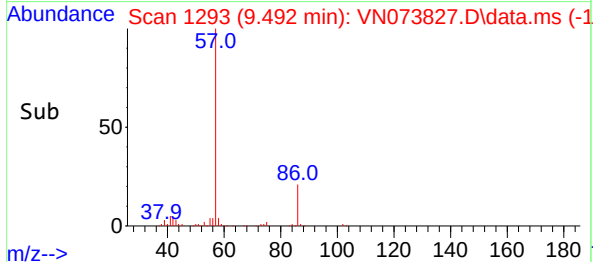
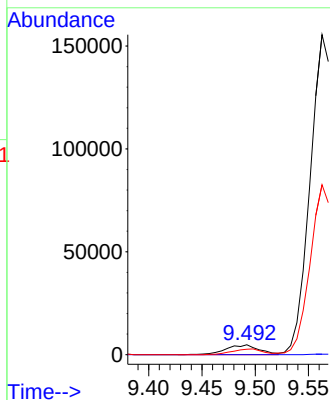


#48
Methyl methacrylate
Concen: 2.422 ug/l
RT: 9.492 min Scan# 1293
Delta R.T. -0.006 min
Lab File: VN073827.D
Acq: 11 Aug 2022 16:03

Instrument :
MSVOA_N
ClientSampleId :
PB146912ZHE#02

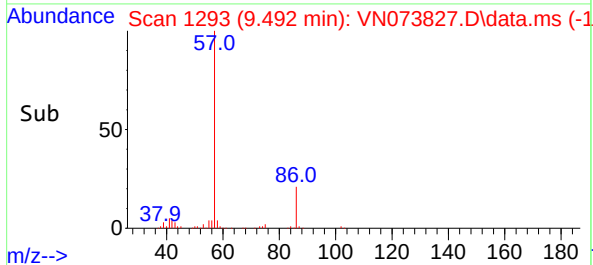
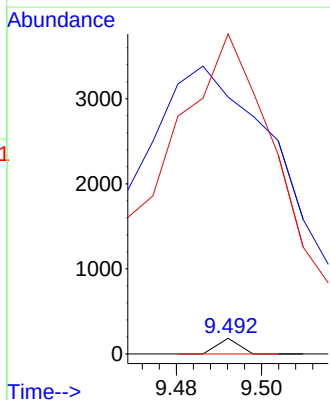
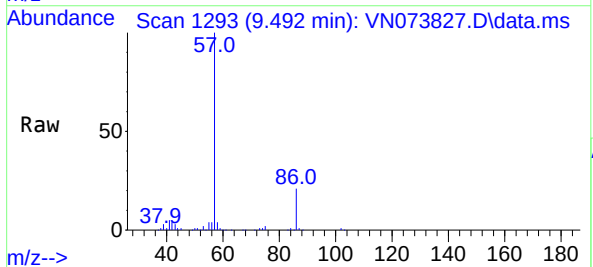


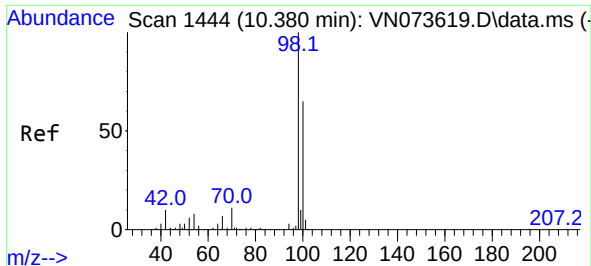
Tgt Ion: 41 Resp: 10393
Ion Ratio Lower Upper
41 100
69 0.0 74.7 112.1#
39 53.0 45.6 68.4



#49
1,4-Dioxane
Concen: 0.537 ug/l
RT: 9.492 min Scan# 1293
Delta R.T. -0.012 min
Lab File: VN073827.D
Acq: 11 Aug 2022 16:03

Tgt Ion: 88 Resp: 65
Ion Ratio Lower Upper
88 100
43 0.0 20.2 30.4#
58 12367.7 54.2 81.4#

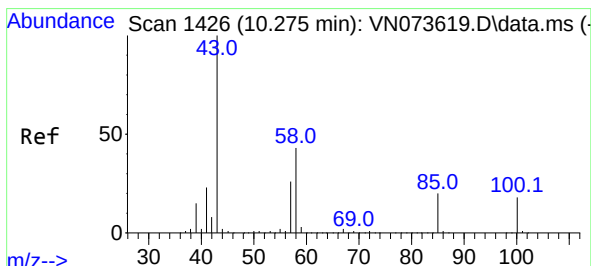
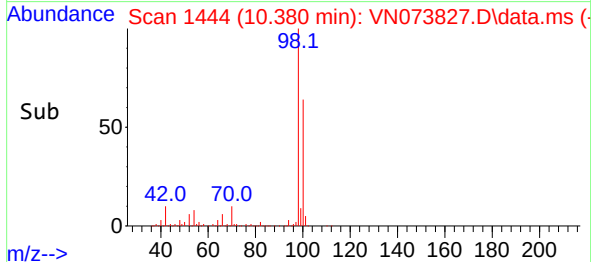
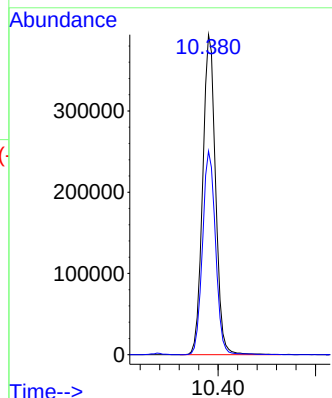
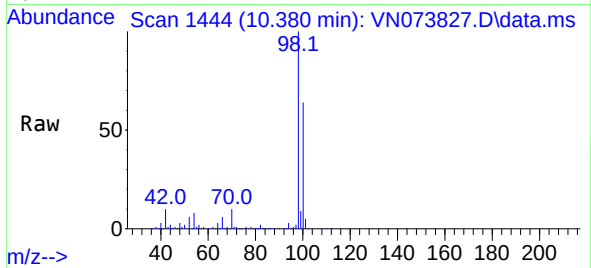




#50
Toluene-d8
Concen: 47.423 ug/l
RT: 10.380 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN073827.D
Acq: 11 Aug 2022 16:03

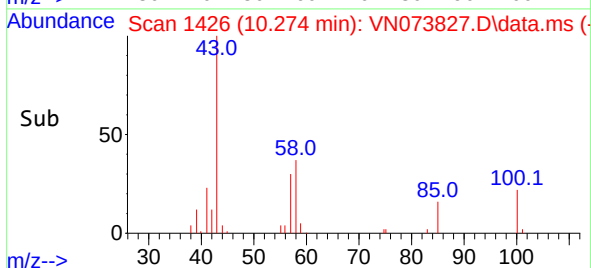
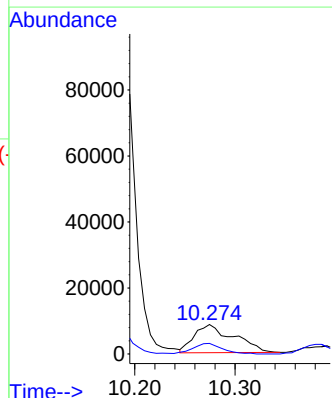
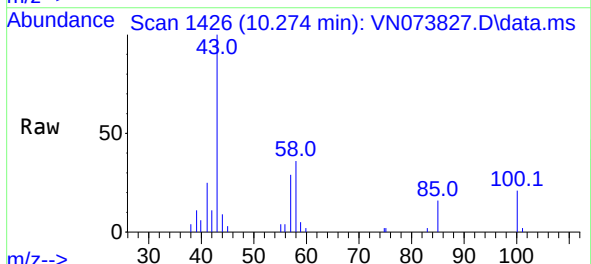
Instrument :
MSVOA_N
ClientSampleId :
PB146912ZHE#02

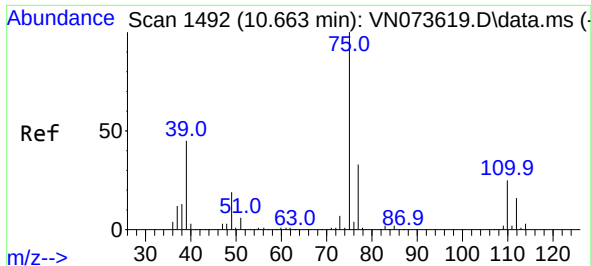
Tgt Ion: 98 Resp: 721602
Ion Ratio Lower Upper
98 100
100 64.6 52.6 78.8



#51
4-Methyl-2-Pentanone
Concen: 3.336 ug/l
RT: 10.274 min Scan# 1426
Delta R.T. -0.001 min
Lab File: VN073827.D
Acq: 11 Aug 2022 16:03

Tgt Ion: 43 Resp: 23458
Ion Ratio Lower Upper
43 100
58 27.9 34.1 51.1#

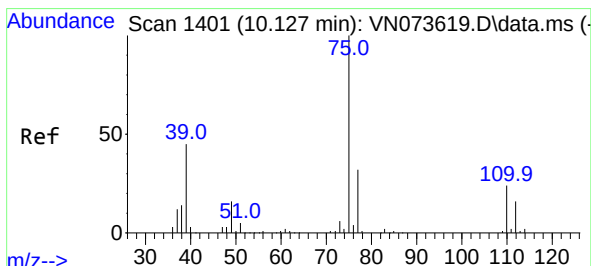
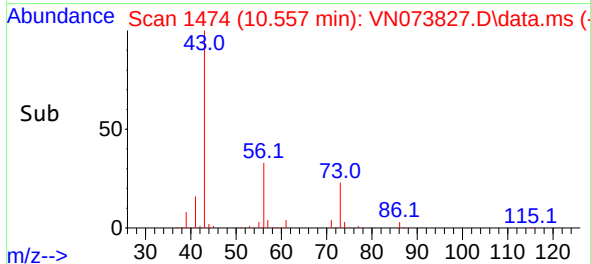
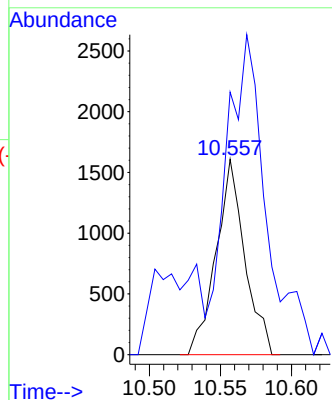
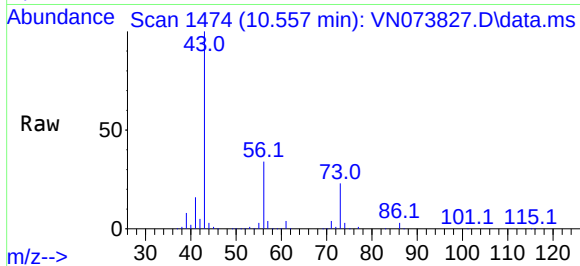




#53
 t-1,3-Dichloropropene
 Concen: 0.384 ug/l
 RT: 10.557 min Scan# 1410
 Delta R.T. -0.106 min
 Lab File: VN073827.D
 Acq: 11 Aug 2022 16:03

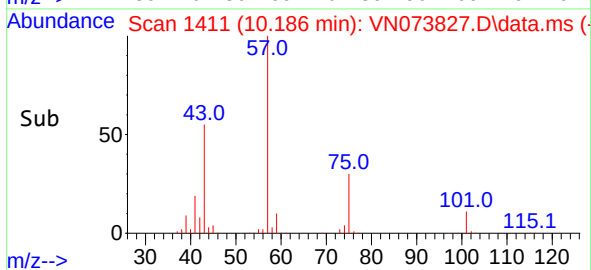
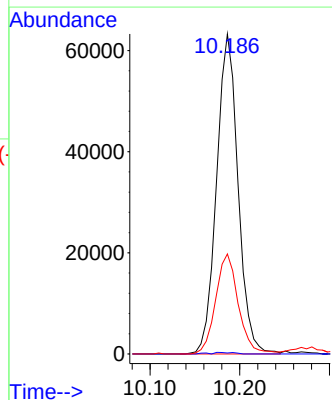
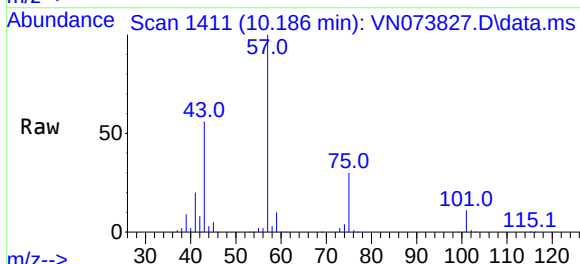
Instrument :
 MSVOA_N
 ClientSampleId :
 PB146912ZHE#02

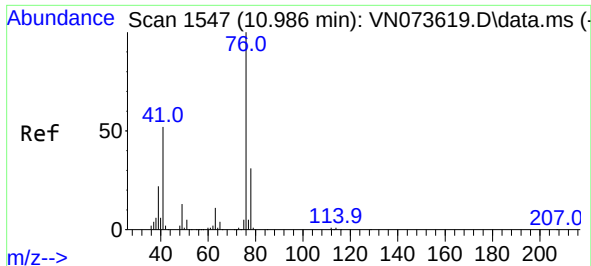
Tgt Ion: 75 Resp: 2263
 Ion Ratio Lower Upper
 75 100
 77 107.3 25.6 38.4#



#54
 cis-1,3-Dichloropropene
 Concen: 15.842 ug/l
 RT: 10.186 min Scan# 1411
 Delta R.T. 0.059 min
 Lab File: VN073827.D
 Acq: 11 Aug 2022 16:03

Tgt Ion: 75 Resp: 105087
 Ion Ratio Lower Upper
 75 100
 77 0.3 25.2 37.8#
 39 31.3 35.7 53.5#





#57

1,3-Dichloropropane

Concen: 1.942 ug/l

RT: 11.033 min Scan# 11

Delta R.T. 0.047 min

Lab File: VN073827.D

Acq: 11 Aug 2022 16:03

Instrument :

MSVOA_N

ClientSampleId :

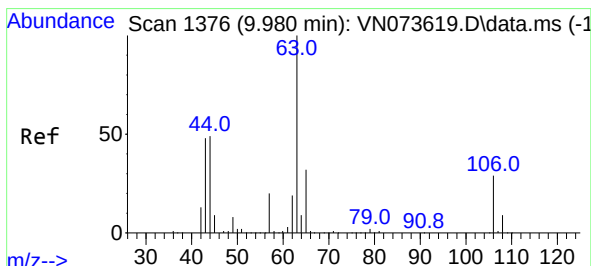
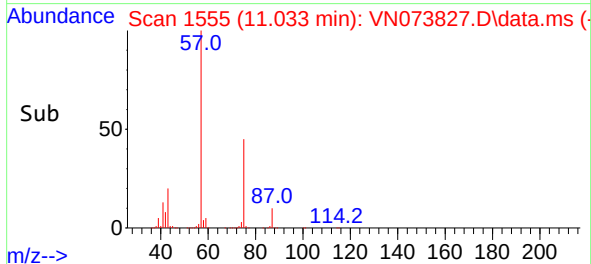
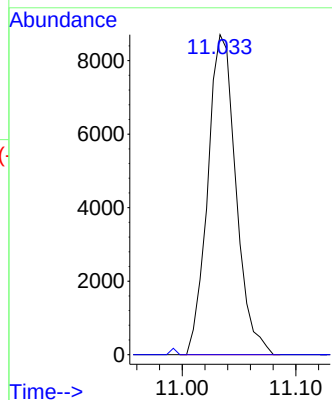
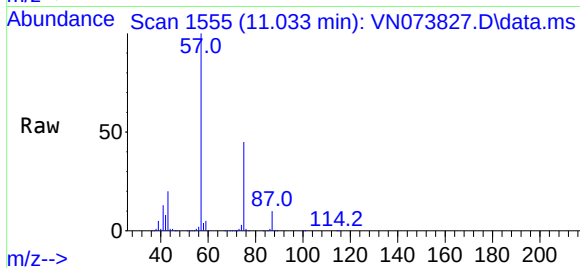
PB146912ZHE#02

Tgt Ion: 76 Resp: 15018

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.2#



#58

2-Chloroethyl Vinyl ether

Concen: 9.960 ug/l

RT: 10.204 min Scan# 1414

Delta R.T. 0.224 min

Lab File: VN073827.D

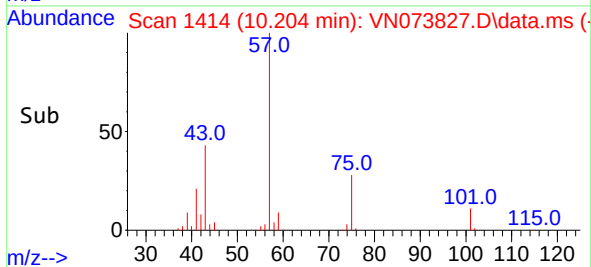
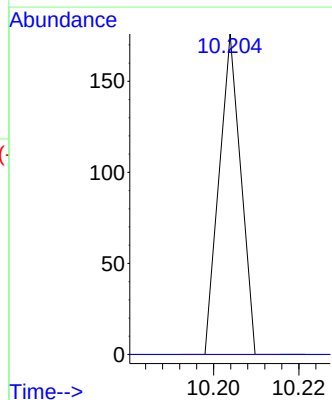
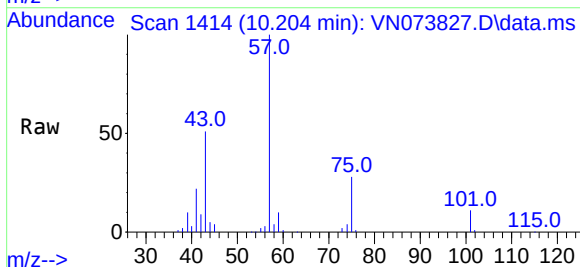
Acq: 11 Aug 2022 16:03

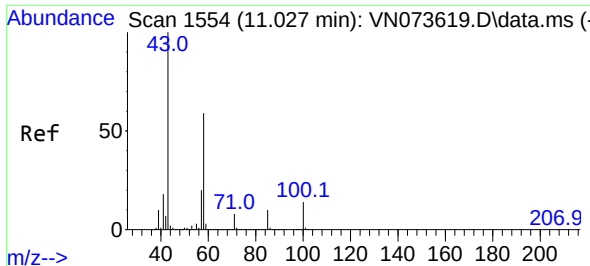
Tgt Ion: 63 Resp: 62

Ion Ratio Lower Upper

63 100

106 0.0 24.6 36.8#

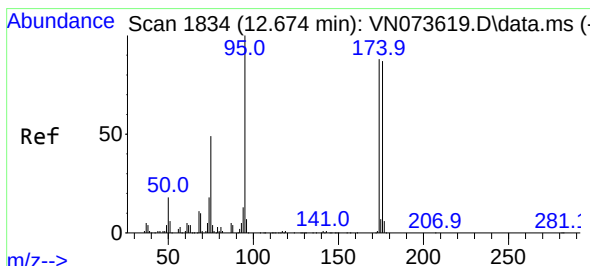
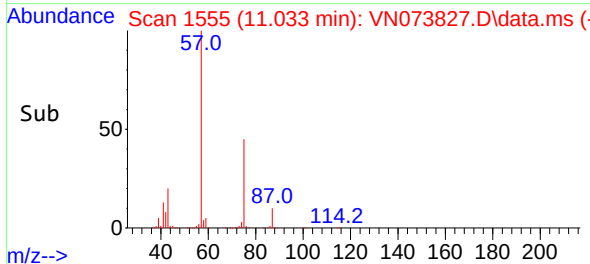
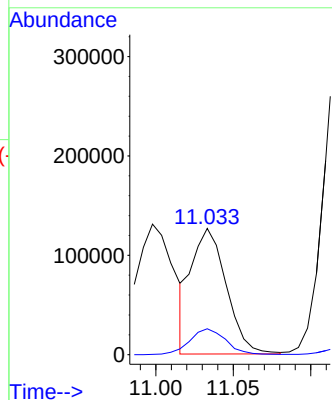
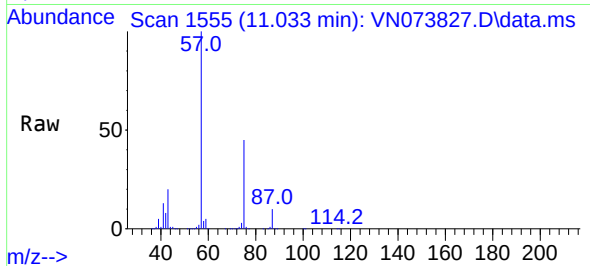




#59
2-Hexanone
Concen: 37.257 ug/l
RT: 11.033 min Scan# 1555
Delta R.T. 0.006 min
Lab File: VN073827.D
Acq: 11 Aug 2022 16:03

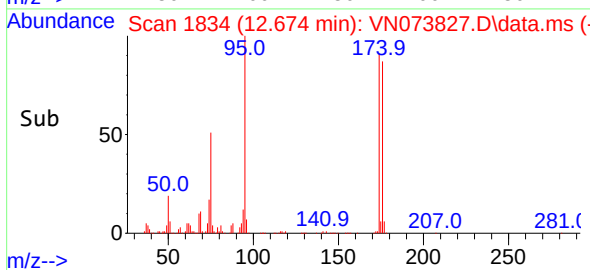
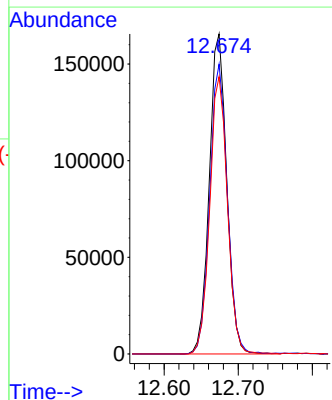
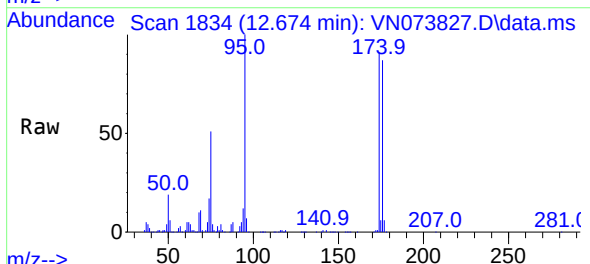
Instrument :
MSVOA_N
ClientSampleId :
PB146912ZHE#02

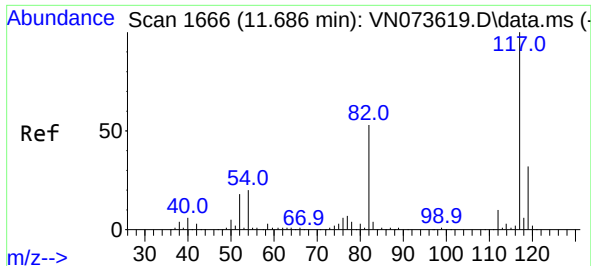
Tgt Ion: 43 Resp: 198476
Ion Ratio Lower Upper
43 100
58 21.5 29.7 89.1#



#62
4-Bromofluorobenzene
Concen: 50.689 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.000 min
Lab File: VN073827.D
Acq: 11 Aug 2022 16:03

Tgt Ion: 95 Resp: 270976
Ion Ratio Lower Upper
95 100
174 91.8 0.0 167.6
176 87.4 0.0 163.4

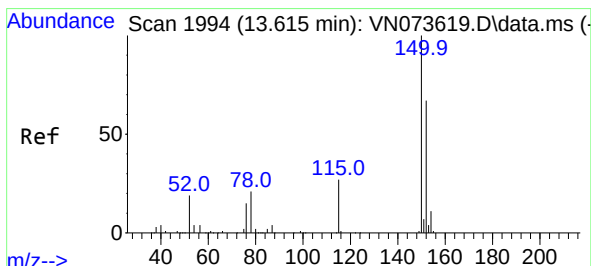
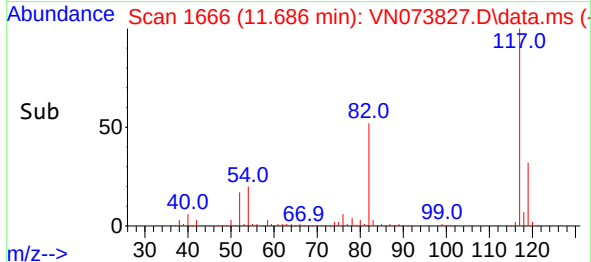
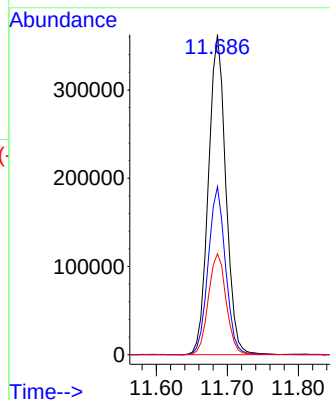
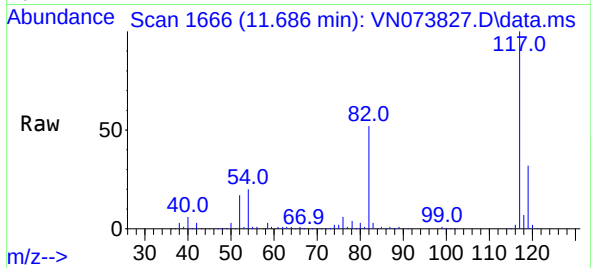




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.686 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN073827.D
Acq: 11 Aug 2022 16:03

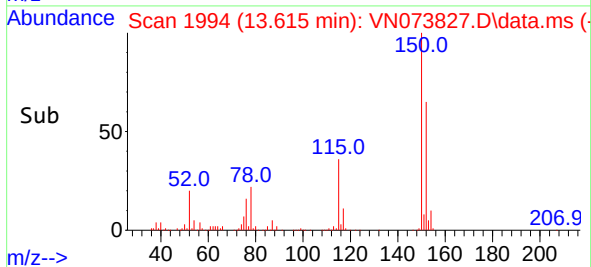
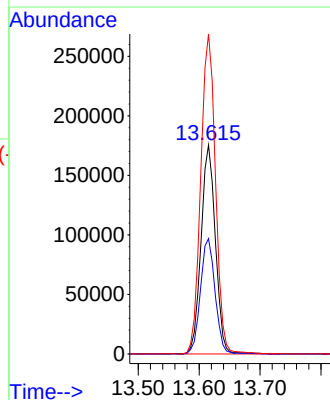
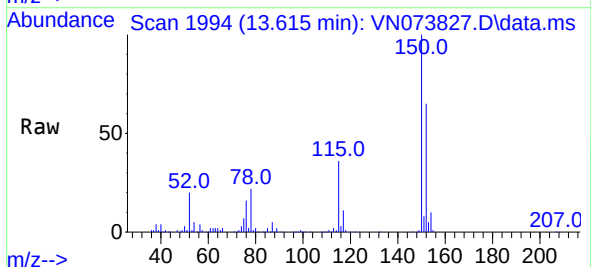
Instrument :
MSVOA_N
ClientSampleId :
PB146912ZHE#02

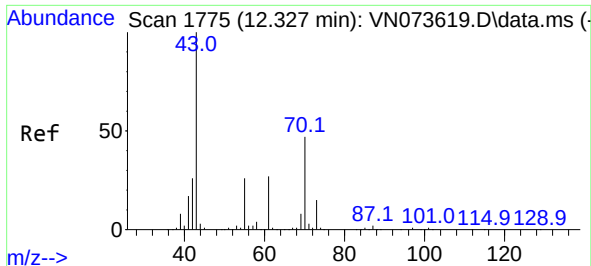
Tgt Ion:117 Resp: 618508
Ion Ratio Lower Upper
117 100
82 52.5 44.2 66.2
119 31.5 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.615 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VN073827.D
Acq: 11 Aug 2022 16:03

Tgt Ion:152 Resp: 288789
Ion Ratio Lower Upper
152 100
115 56.2 28.9 86.7
150 157.0 0.0 356.2

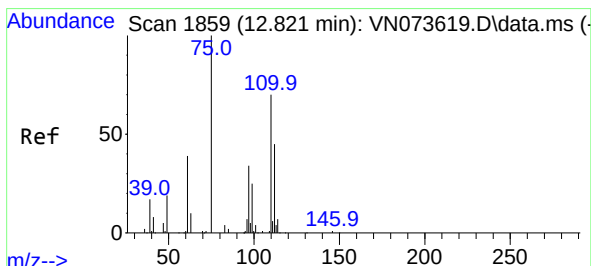
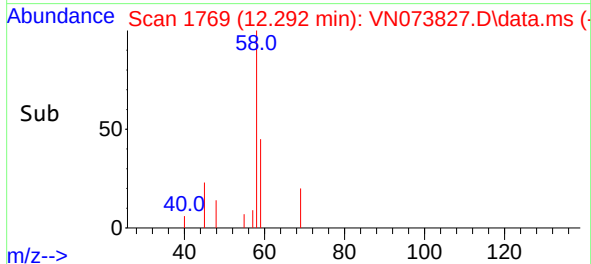
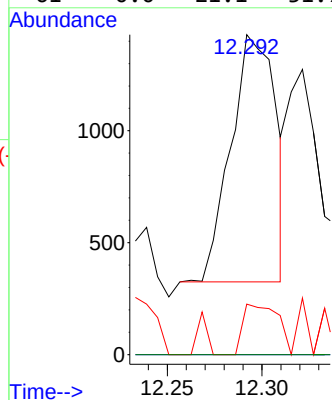
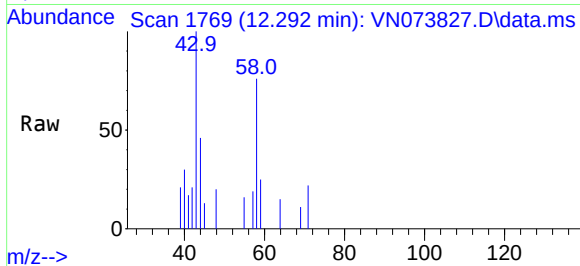




#74
N-amy1 acetate
Concen: 0.228 ug/l
RT: 12.292 min Scan# 11
Delta R.T. -0.035 min
Lab File: VN073827.D
Acq: 11 Aug 2022 16:03

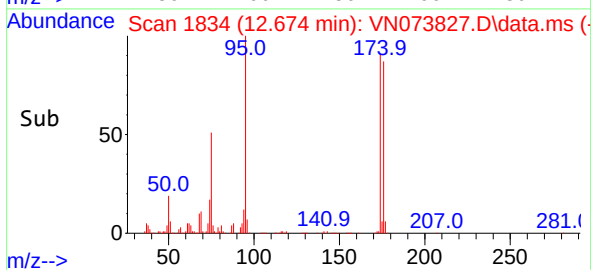
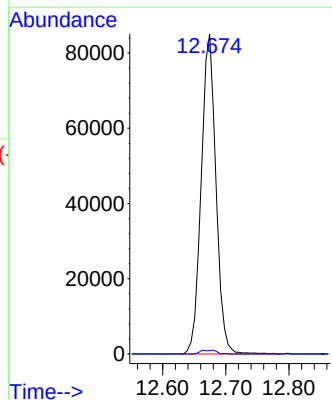
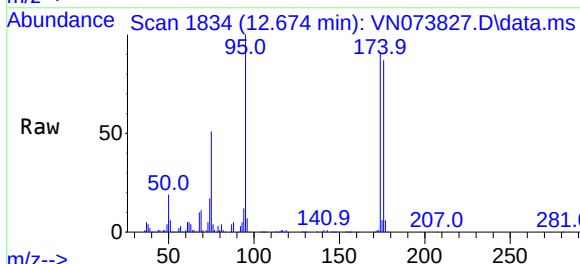
Instrument :
MSVOA_N
ClientSampleId :
PB146912ZHE#02

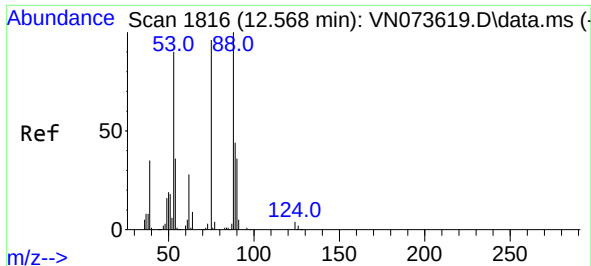
Tgt Ion:	43	Resp:	1821
Ion	Ratio	Lower	Upper
43	100		
70	0.0	39.0	58.4#
55	15.9	21.1	31.7#
61	0.0	21.1	31.7#



#76
1,2,3-Trichloropropane
Concen: 24.401 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. -0.147 min
Lab File: VN073827.D
Acq: 11 Aug 2022 16:03

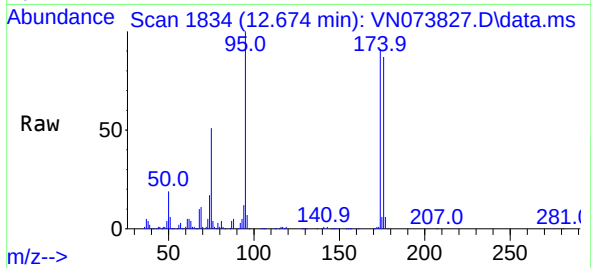
Tgt Ion:	75	Resp:	137823
Ion	Ratio	Lower	Upper
75	100		
77	1.3	98.5	295.5#





#81
trans-1,4-Dichloro-2-butene
Concen: 61.848 ug/l
RT: 12.674 min Scan# 11
Delta R.T. 0.106 min
Lab File: VN073827.D
Acq: 11 Aug 2022 16:03

Instrument :
MSVOA_N
ClientSampleId :
PB146912ZHE#02



Tgt Ion: 75 Resp: 137823
Ion Ratio Lower Upper
75 100
53 0.3 78.0 117.0#
89 0.0 37.2 55.8#

