

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081322\
 Data File : VN073882.D
 Acq On : 13 Aug 2022 20:55
 Operator : JC\MD
 Sample : PB146976ZHE#08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB146976ZHE#08

Quant Time: Aug 14 02:40:06 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)

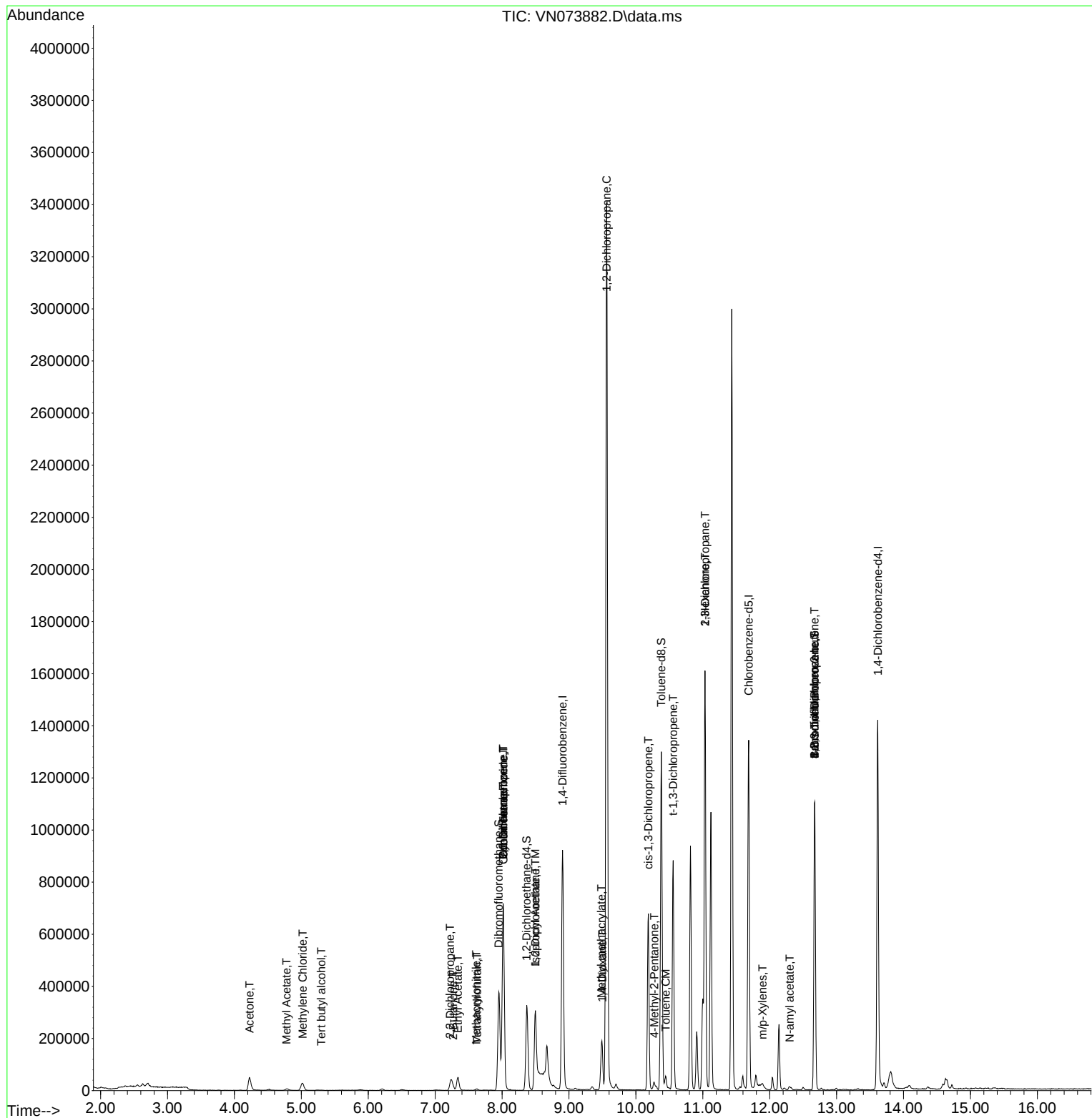
Internal Standards						
1) Pentafluorobenzene	8.016	168	614717	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	881781	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	836823	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.616	152	416891	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	275913	36.831	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	73.660%#		
35) Dibromofluoromethane	7.951	113	276344	49.908	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	99.820%		
50) Toluene-d8	10.380	98	919609	42.205	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	84.420%#		
62) 4-Bromofluorobenzene	12.669	95	364693	47.806	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	95.620%		
Target Compounds						Qvalue
3) Chloromethane	2.269	50	980	Below Cal	#	43
6) Chloroethane	3.022	64	54	Below Cal	#	1
11) Tert butyl alcohol	5.298	59	1520	0.941	ug/l #	72
16) Acetone	4.228	43	91318	22.695	ug/l	95
18) Methyl Acetate	4.781	43	13314	1.330	ug/l	97
20) Methylene Chloride	5.022	84	24489	1.630	ug/l #	88
25) 2-Butanone	7.269	43	19980	3.197	ug/l	94
26) 2,2-Dichloropropane	7.222	77	3196	0.336	ug/l #	53
29) Tetrahydrofuran	7.628	42	4215	1.067	ug/l	96
31) Cyclohexane	8.016	56	9688	0.869	ug/l #	8
36) 1,1-Dichloropropene	8.016	75	38679	4.901	ug/l #	49
37) Ethyl Acetate	7.340	43	75631	7.277	ug/l	97
38) Carbon Tetrachloride	8.022	117	53188	6.636	ug/l #	16
41) Methacrylonitrile	7.616	41	2532	0.538	ug/l #	36
42) 1,2-Dichloroethane	8.498	62	2368	0.274	ug/l #	74
43) Isopropyl Acetate	8.498	43	407155	29.004	ug/l #	86
45) 1,2-Dichloropropane	9.563	63	4415	0.689	ug/l #	44
48) Methyl methacrylate	9.486	41	10982	1.787	ug/l #	40
49) 1,4-Dioxane	9.498	88	373	2.153	ug/l #	1
51) 4-Methyl-2-Pentanone	10.275	43	30393	3.019	ug/l #	74
52) Toluene	10.445	92	22278	1.423	ug/l	98
53) t-1,3-Dichloropropene	10.557	75	2884	0.342	ug/l #	39
54) cis-1,3-Dichloropropene	10.186	75	134921	14.204	ug/l #	60
57) 1,3-Dichloropropane	11.033	76	18165	1.640	ug/l #	42
59) 2-Hexanone	11.033	43	205147	26.893	ug/l #	49
68) m/p-Xylenes	11.892	106	3780	0.331	ug/l	94
71) Bromoform	12.669	173	1865	0.354	ug/l #	1
74) N-amyl acetate	12.298	43	9973	0.865	ug/l #	43
76) 1,2,3-Trichloropropane	12.669	75	179330	21.654	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.669	75	179330	55.746	ug/l #	11

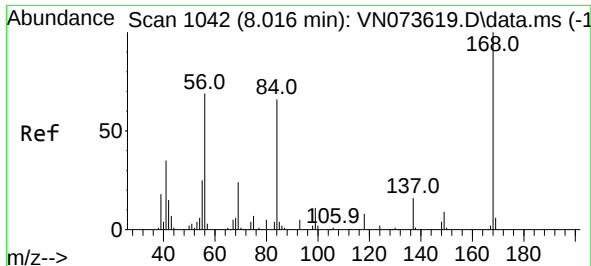
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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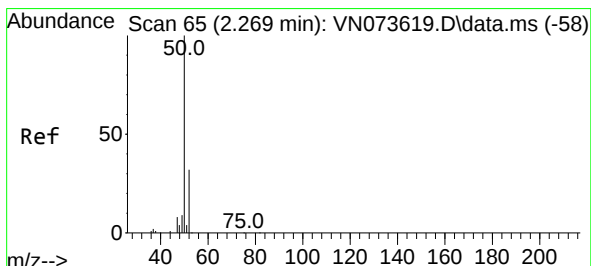
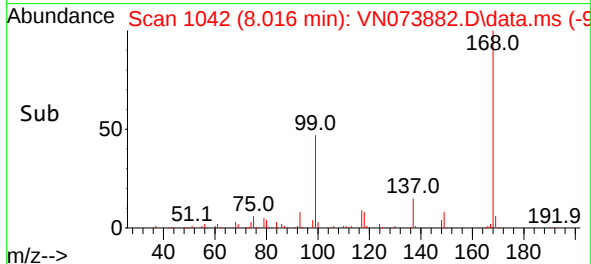
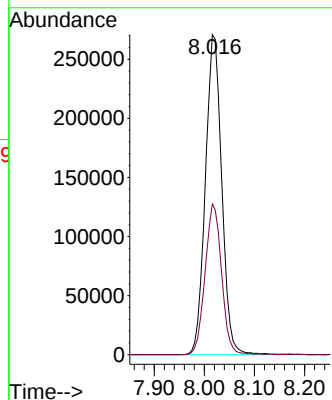
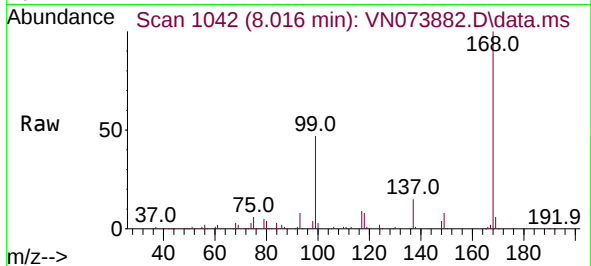




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.000 min
Lab File: VN073882.D
Acq: 13 Aug 2022 20:55

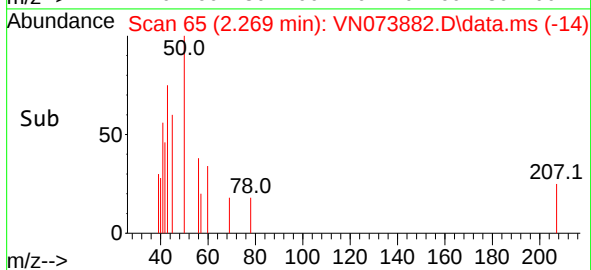
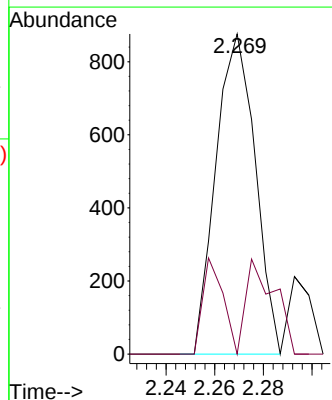
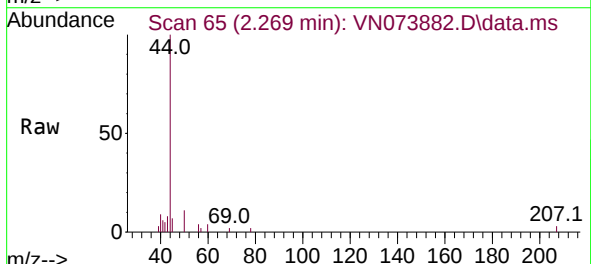
Instrument :
MSVOA_N
ClientSampleId :
PB146976ZHE#08

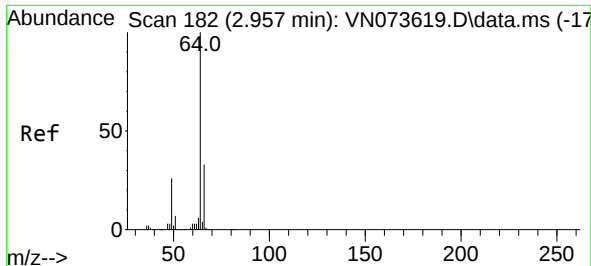
Tgt Ion:168 Resp: 614717
Ion Ratio Lower Upper
168 100
99 47.1 42.3 63.5



#3
Chloromethane
Concen: Below Cal
RT: 2.269 min Scan# 65
Delta R.T. 0.000 min
Lab File: VN073882.D
Acq: 13 Aug 2022 20:55

Tgt Ion: 50 Resp: 980
Ion Ratio Lower Upper
50 100
52 0.0 25.7 38.5#

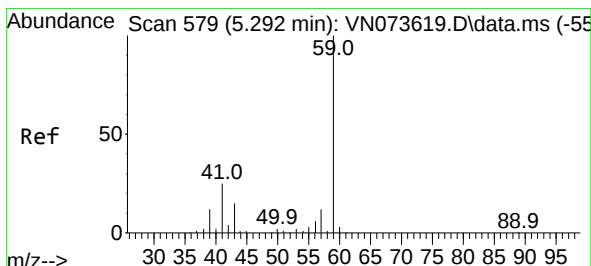
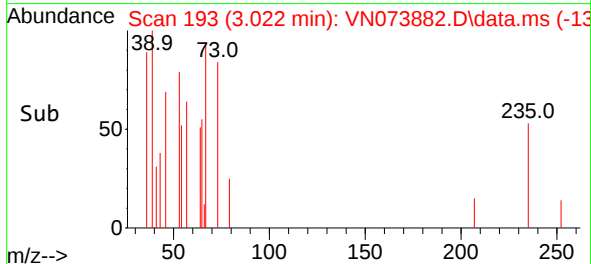
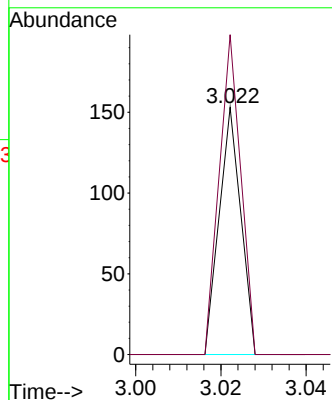
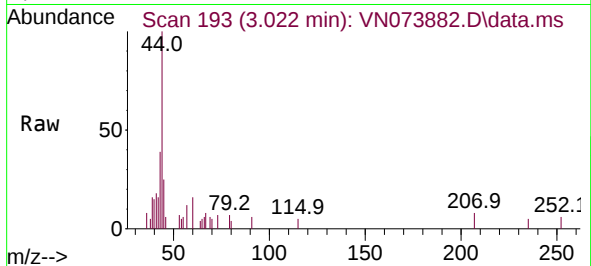




#6
Chloroethane
Concen: Below Cal
RT: 3.022 min Scan# 11
Delta R.T. 0.065 min
Lab File: VN073882.D
Acq: 13 Aug 2022 20:55

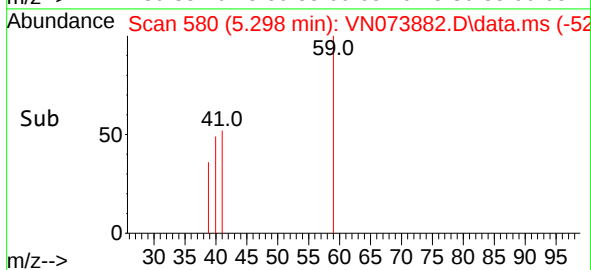
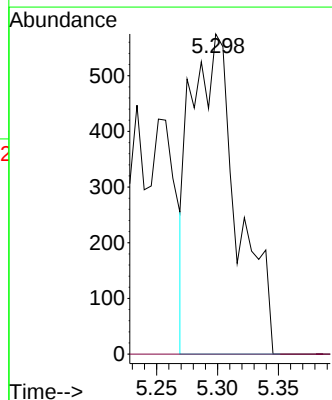
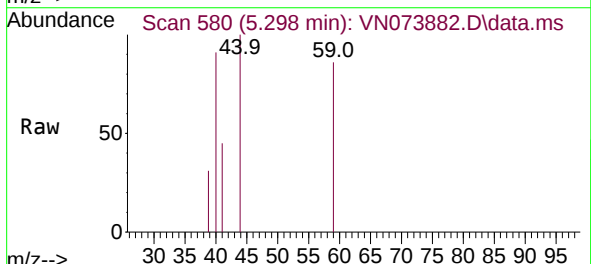
Instrument :
MSVOA_N
ClientSampleId :
PB146976ZHE#08

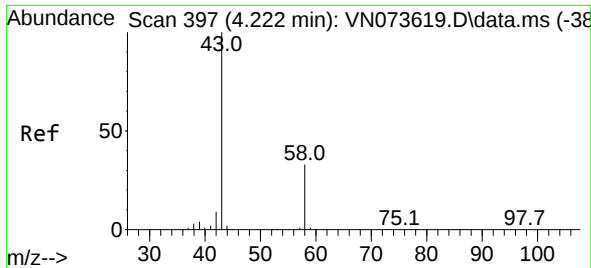
Tgt Ion: 64 Resp: 54
Ion Ratio Lower Upper
64 100
66 129.4 26.2 39.4#



#11
Tert butyl alcohol
Concen: 0.941 ug/l
RT: 5.298 min Scan# 580
Delta R.T. 0.006 min
Lab File: VN073882.D
Acq: 13 Aug 2022 20:55

Tgt Ion: 59 Resp: 1520
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

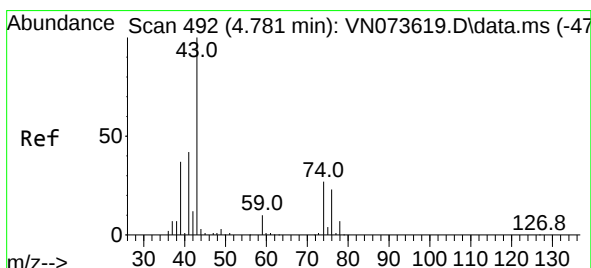
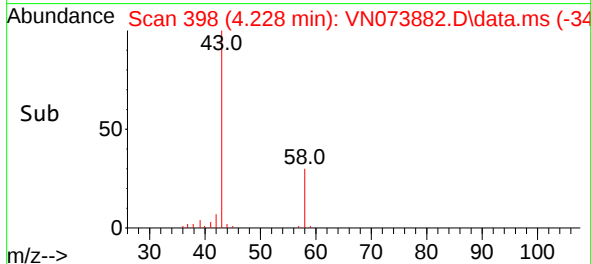
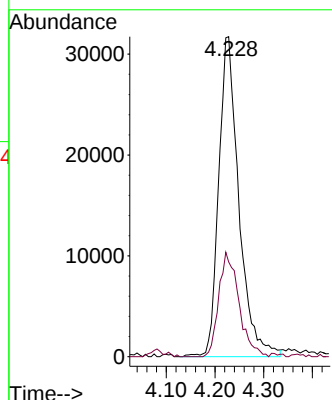
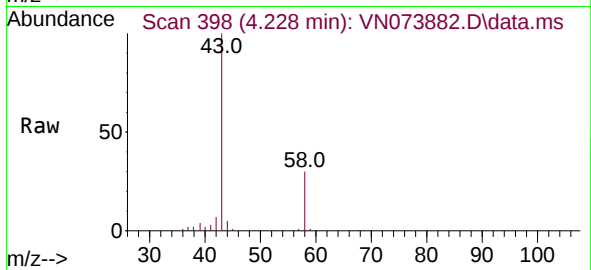




#16
Acetone
Concen: 22.695 ug/l
RT: 4.228 min Scan# 397
Delta R.T. 0.006 min
Lab File: VN073882.D
Acq: 13 Aug 2022 20:55

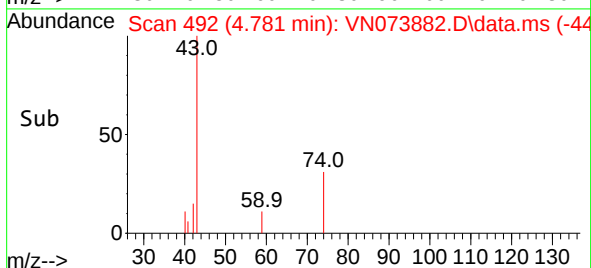
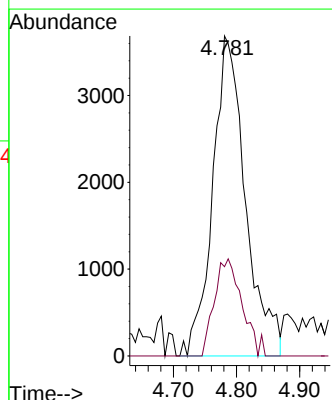
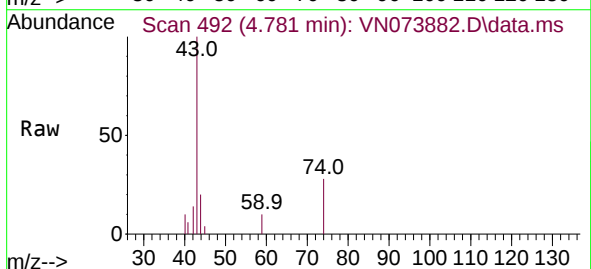
Instrument :
MSVOA_N
ClientSampleId :
PB146976ZHE#08

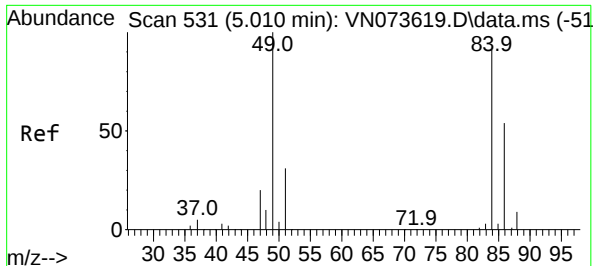
Tgt Ion: 43 Resp: 91318
Ion Ratio Lower Upper
43 100
58 29.6 26.0 39.0



#18
Methyl Acetate
Concen: 1.330 ug/l
RT: 4.781 min Scan# 492
Delta R.T. 0.000 min
Lab File: VN073882.D
Acq: 13 Aug 2022 20:55

Tgt Ion: 43 Resp: 13314
Ion Ratio Lower Upper
43 100
74 25.5 21.6 32.4

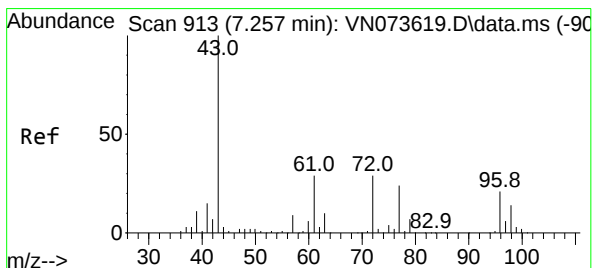
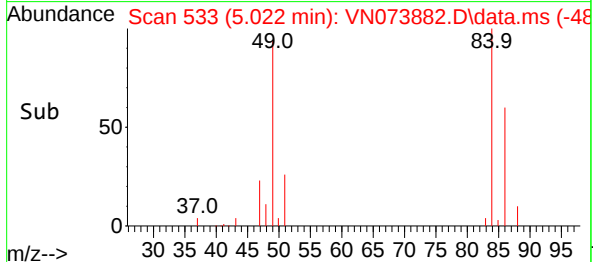
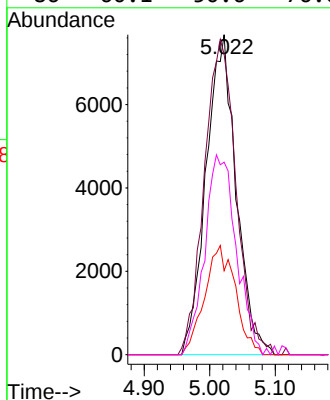
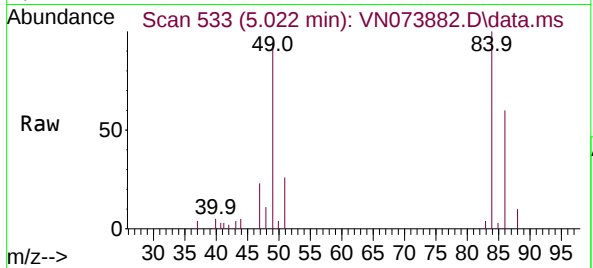




#20
Methylene Chloride
Concen: 1.630 ug/l
RT: 5.022 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN073882.D
Acq: 13 Aug 2022 20:55

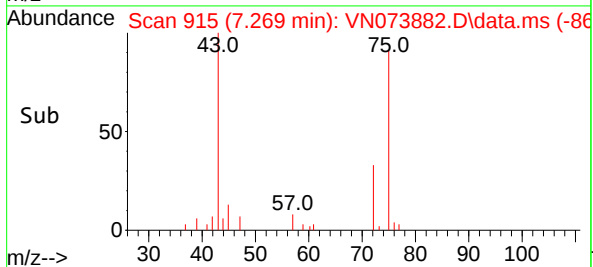
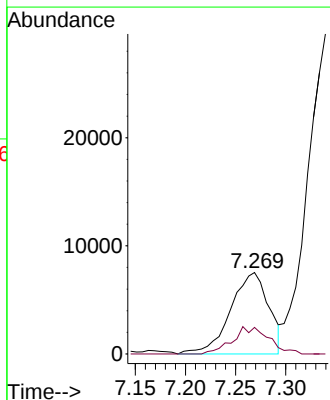
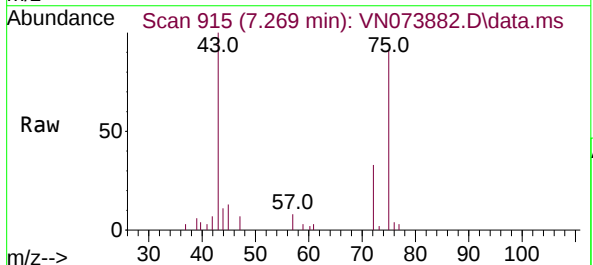
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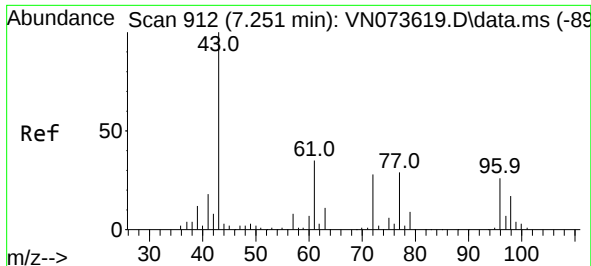
Tgt Ion: 84	Resp: 24489
Ion Ratio	Lower Upper
84 100	
49 93.9	88.3 132.5
51 26.3	28.2 42.2#
86 60.1	50.6 76.0



#25
2-Butanone
Concen: 3.197 ug/l
RT: 7.269 min Scan# 915
Delta R.T. 0.012 min
Lab File: VN073882.D
Acq: 13 Aug 2022 20:55

Tgt Ion: 43	Resp: 19980
Ion Ratio	Lower Upper
43 100	
72 32.7	23.7 35.5

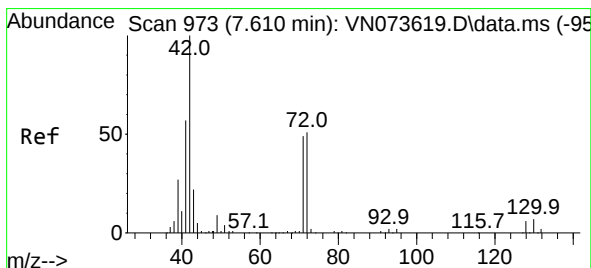
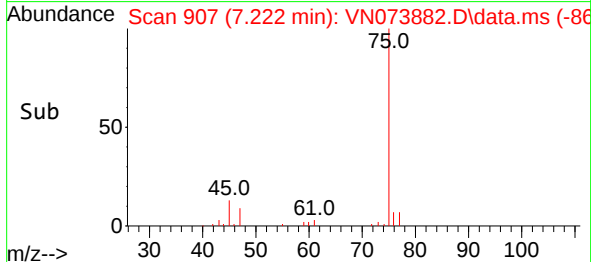
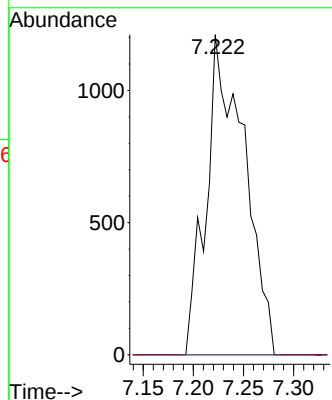
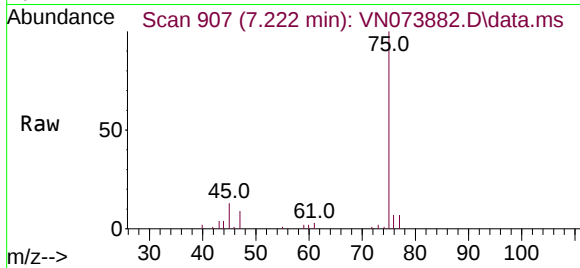




#26
2,2-Dichloropropane
Concen: 0.336 ug/l
RT: 7.222 min Scan# 907
Delta R.T. -0.029 min
Lab File: VN073882.D
Acq: 13 Aug 2022 20:55

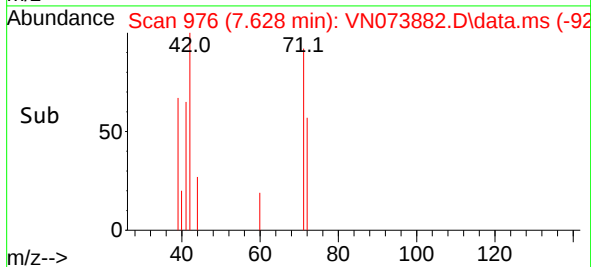
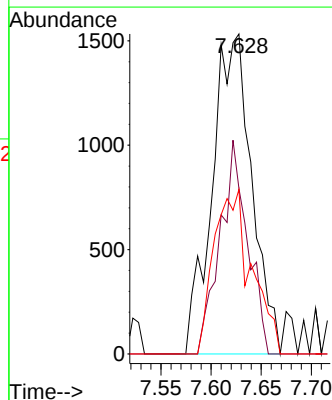
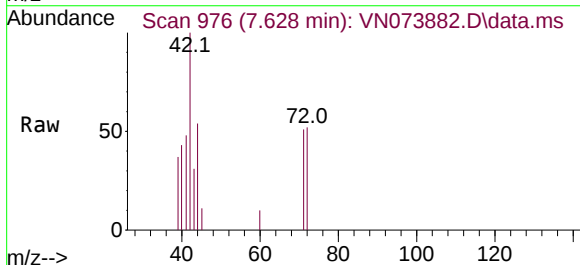
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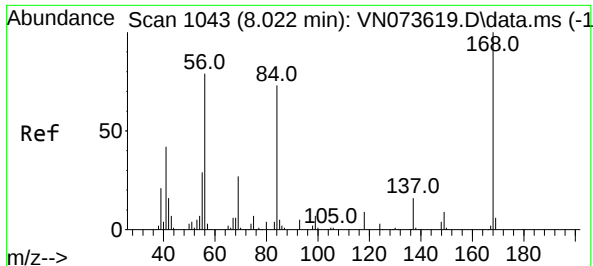
Tgt Ion: 77 Resp: 3196
Ion Ratio Lower Upper
77 100
97 0.0 11.4 34.2#



#29
Tetrahydrofuran
Concen: 1.067 ug/l
RT: 7.628 min Scan# 976
Delta R.T. 0.018 min
Lab File: VN073882.D
Acq: 13 Aug 2022 20:55

Tgt Ion: 42 Resp: 4215
Ion Ratio Lower Upper
42 100
72 46.5 39.7 59.5
71 48.5 36.6 55.0

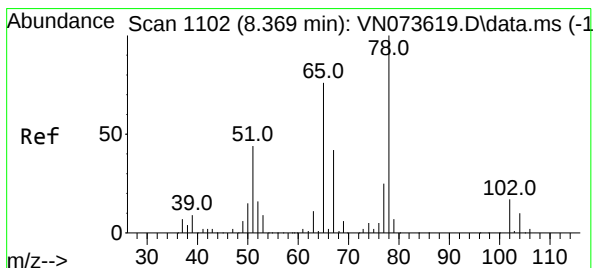
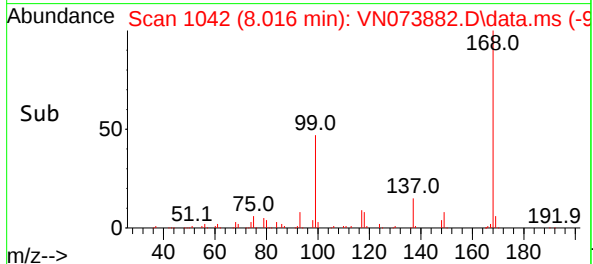
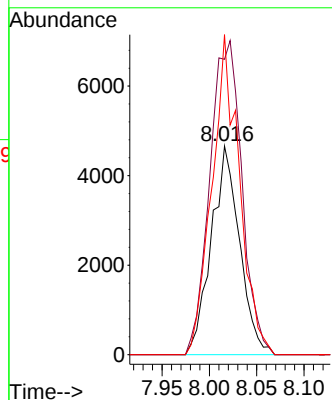
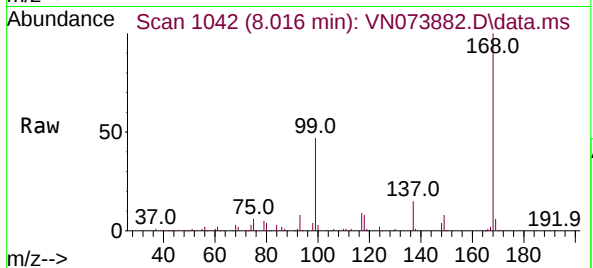




#31
Cyclohexane
Concen: 0.869 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.006 min
Lab File: VN073882.D
Acq: 13 Aug 2022 20:55

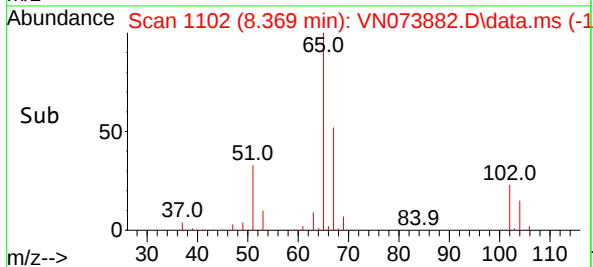
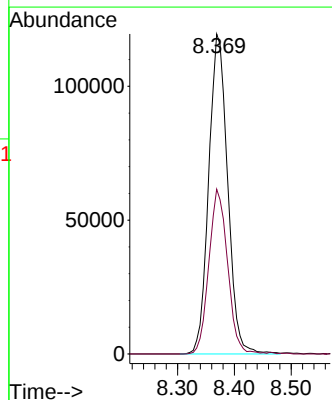
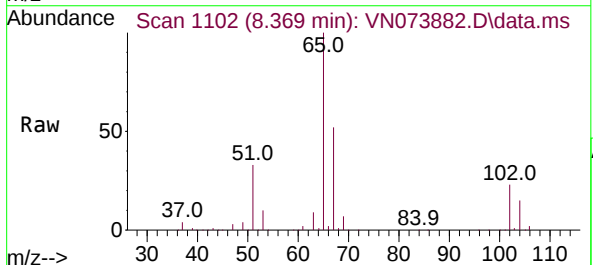
Instrument :
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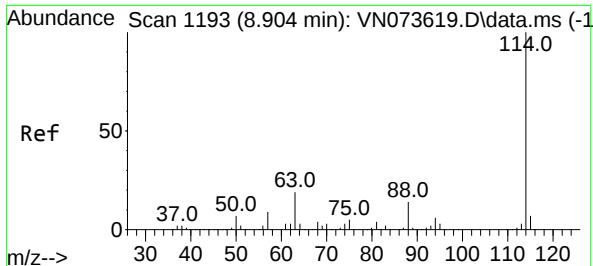
Tgt Ion: 56 Resp: 9688
Ion Ratio Lower Upper
56 100
69 141.5 27.8 41.8#
84 153.3 76.9 115.3#



#33
1,2-Dichloroethane-d4
Concen: 36.831 ug/l
RT: 8.369 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VN073882.D
Acq: 13 Aug 2022 20:55

Tgt Ion: 65 Resp: 275913
Ion Ratio Lower Upper
65 100
67 51.0 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: VN073882.D

Acq: 13 Aug 2022 20:55

Instrument :

MSVOA_N

ClientSampleId :

PB146976ZHE#08

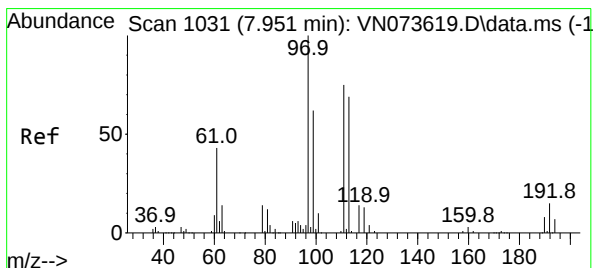
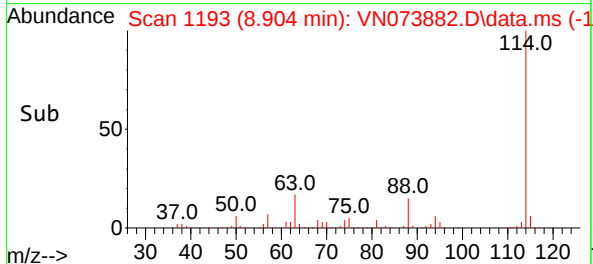
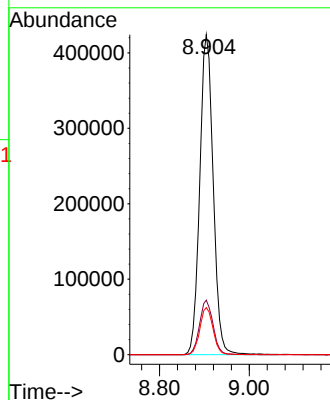
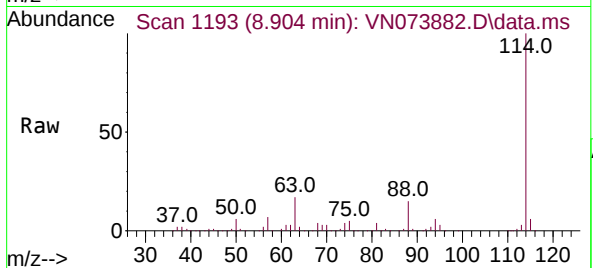
Tgt Ion:114 Resp: 881781

Ion Ratio Lower Upper

114 100

63 17.0 0.0 40.0

88 14.7 0.0 32.6



#35

Dibromofluoromethane

Concen: 49.908 ug/l

RT: 7.951 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VN073882.D

Acq: 13 Aug 2022 20:55

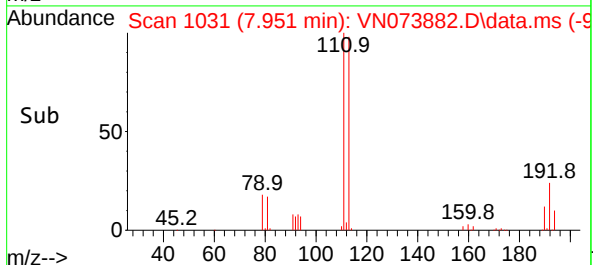
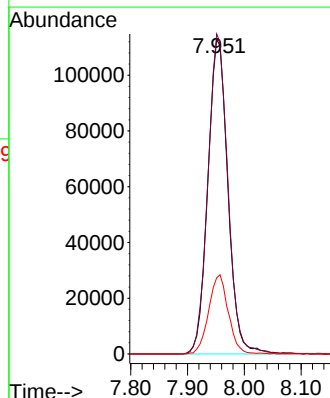
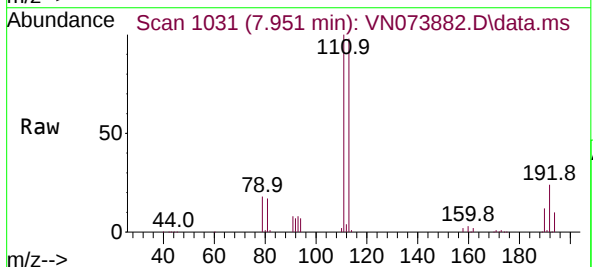
Tgt Ion:113 Resp: 276344

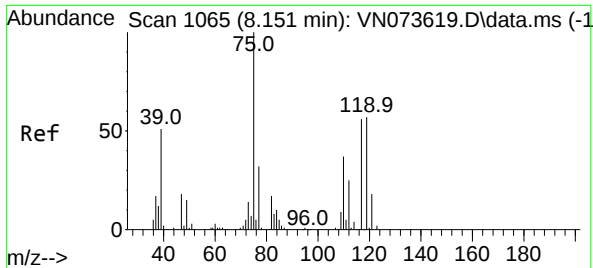
Ion Ratio Lower Upper

113 100

111 101.4 81.4 122.0

192 24.6 17.0 25.6





#36

1,1-Dichloropropene

Concen: 4.901 ug/l

RT: 8.016 min Scan# 1

Delta R.T. -0.135 min

Lab File: VN073882.D

Acq: 13 Aug 2022 20:55

Instrument :

MSVOA_N

ClientSampleId :

PB146976ZHE#08

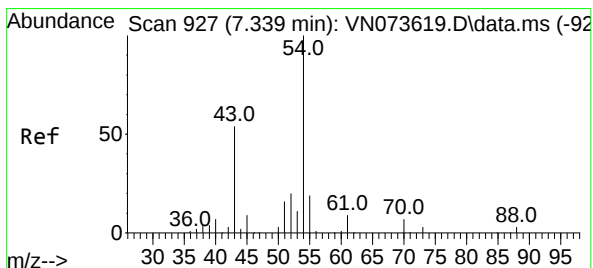
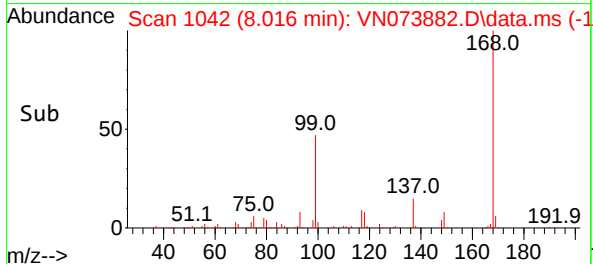
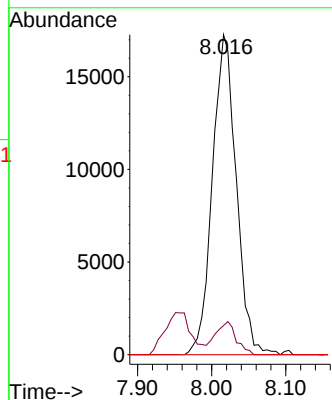
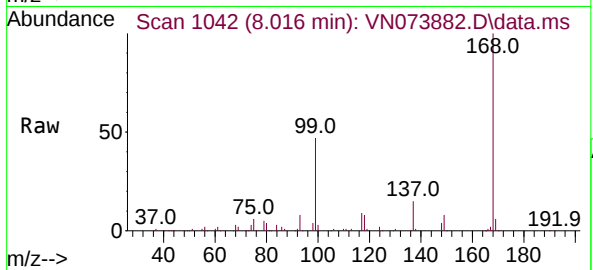
Tgt Ion: 75 Resp: 38679

Ion Ratio Lower Upper

75 100

110 8.9 18.3 54.8#

77 0.0 25.1 37.7#



#37

Ethyl Acetate

Concen: 7.277 ug/l

RT: 7.340 min Scan# 927

Delta R.T. 0.000 min

Lab File: VN073882.D

Acq: 13 Aug 2022 20:55

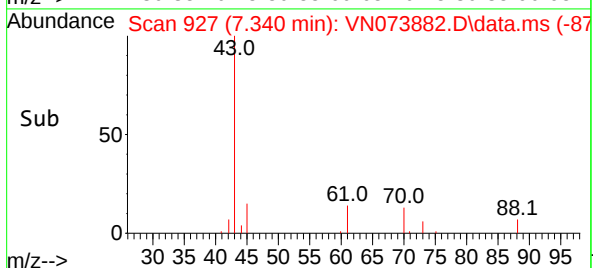
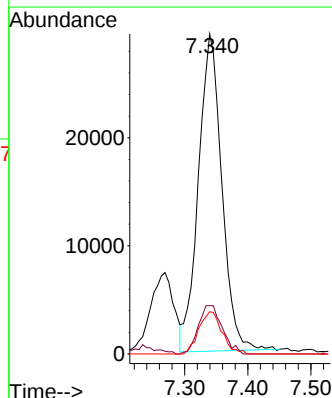
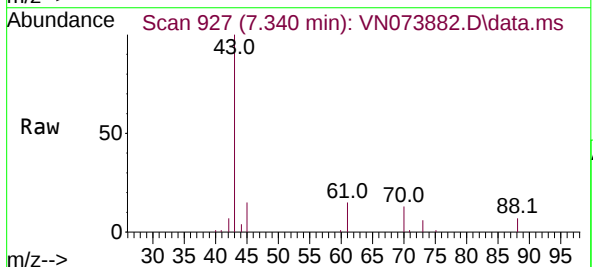
Tgt Ion: 43 Resp: 75631

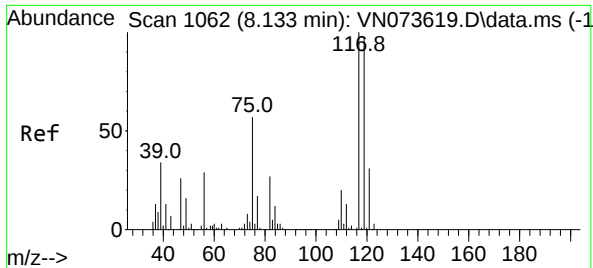
Ion Ratio Lower Upper

43 100

61 15.6 11.8 17.6

70 13.1 9.3 13.9

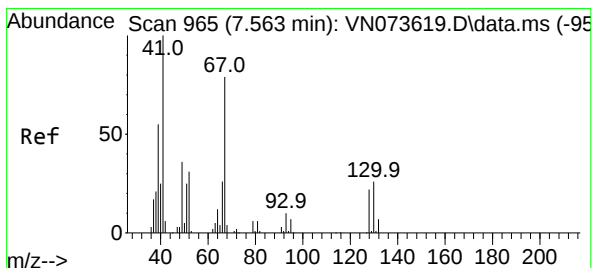
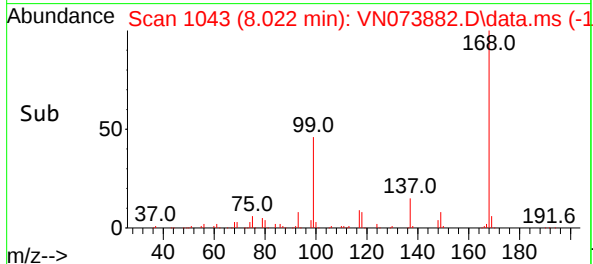
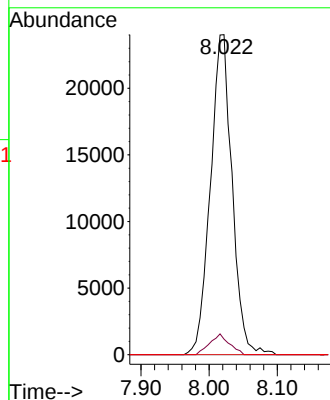
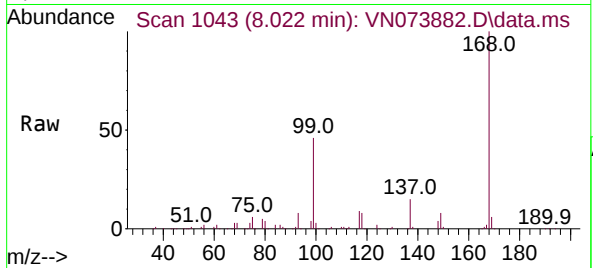




#38
Carbon Tetrachloride
Concen: 6.636 ug/l
RT: 8.022 min Scan# 117
Delta R.T. -0.112 min
Lab File: VN073882.D
Acq: 13 Aug 2022 20:55

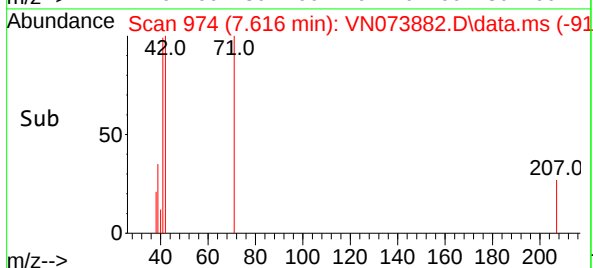
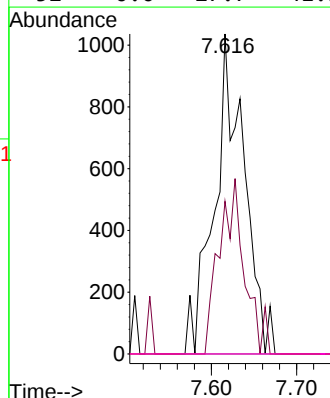
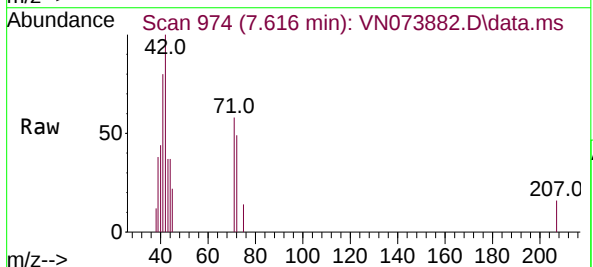
Instrument :
MSVOA_N
ClientSampleId :
PB146976ZHE#08

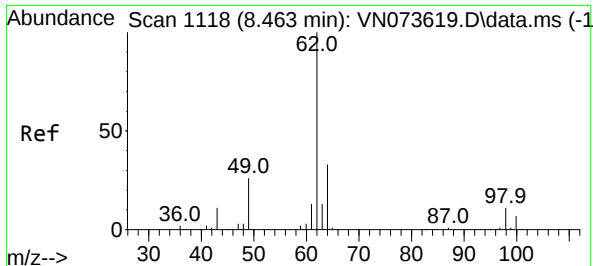
Tgt Ion:117 Resp: 53188
Ion Ratio Lower Upper
117 100
119 4.9 75.8 113.8#
121 0.0 24.6 37.0#



#41
Methacrylonitrile
Concen: 0.538 ug/l
RT: 7.616 min Scan# 974
Delta R.T. 0.053 min
Lab File: VN073882.D
Acq: 13 Aug 2022 20:55

Tgt Ion: 41 Resp: 2532
Ion Ratio Lower Upper
41 100
39 46.4 48.6 73.0#
67 0.0 73.4 110.2#
52 0.0 27.7 41.5#





#42

1,2-Dichloroethane

Concen: 0.274 ug/l

RT: 8.498 min Scan# 1124

Delta R.T. 0.035 min

Lab File: VN073882.D

Acq: 13 Aug 2022 20:55

Instrument :

MSVOA_N

ClientSampleId :

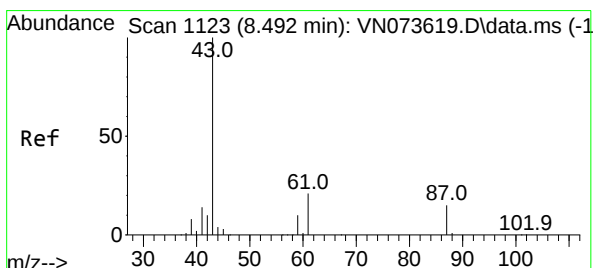
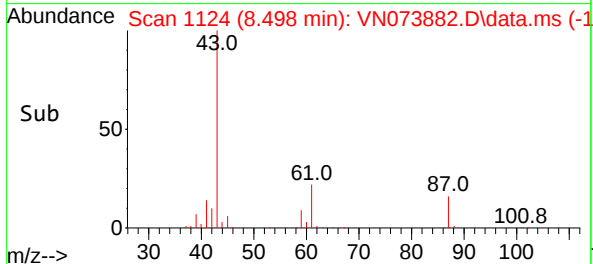
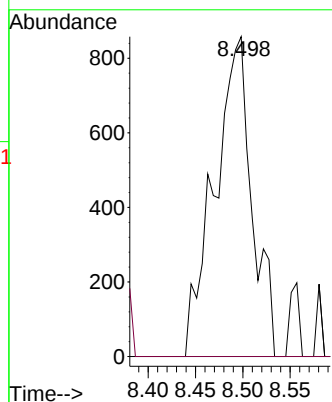
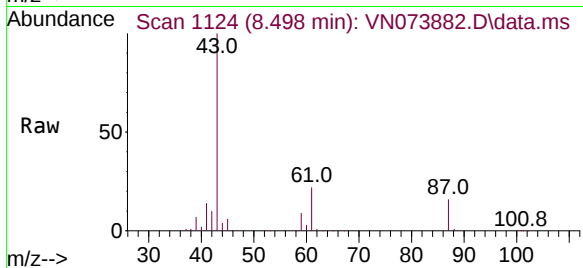
PB146976ZHE#08

Tgt Ion: 62 Resp: 2368

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.4



#43

Isopropyl Acetate

Concen: 29.004 ug/l

RT: 8.498 min Scan# 1124

Delta R.T. 0.006 min

Lab File: VN073882.D

Acq: 13 Aug 2022 20:55

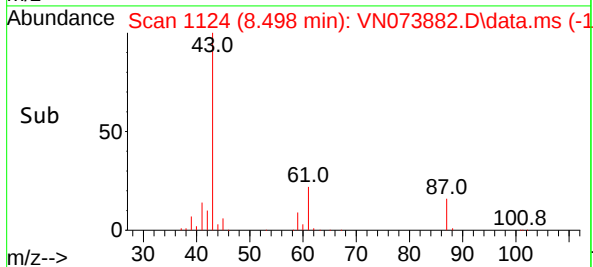
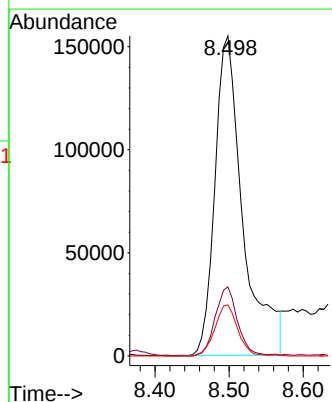
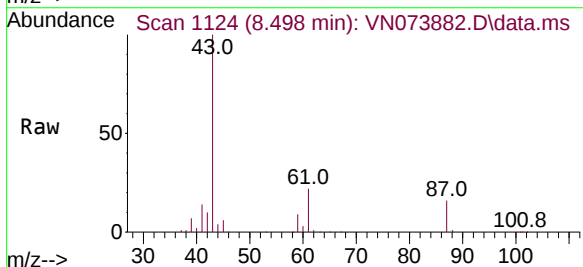
Tgt Ion: 43 Resp: 407155

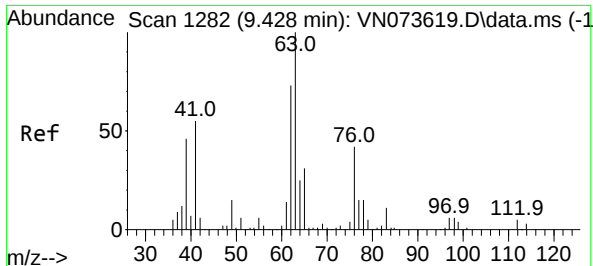
Ion Ratio Lower Upper

43 100

61 17.5 21.9 32.9

87 13.1 12.0 18.0





#45

1,2-Dichloropropane

Concen: 0.689 ug/l

RT: 9.563 min Scan# 11

Delta R.T. 0.135 min

Lab File: VN073882.D

Acq: 13 Aug 2022 20:55

Instrument :

MSVOA_N

ClientSampleId :

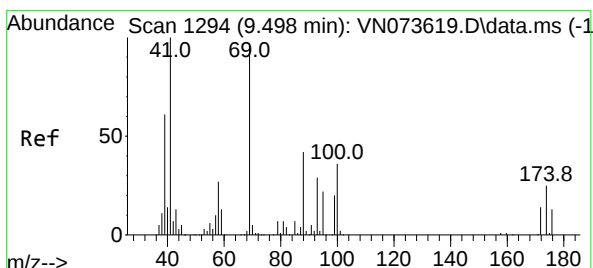
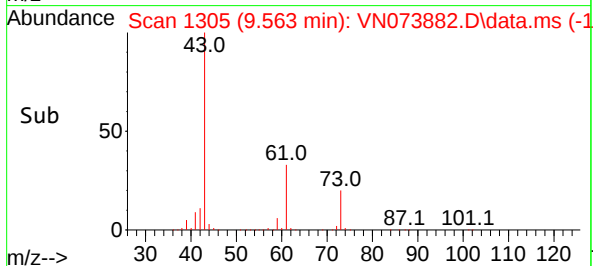
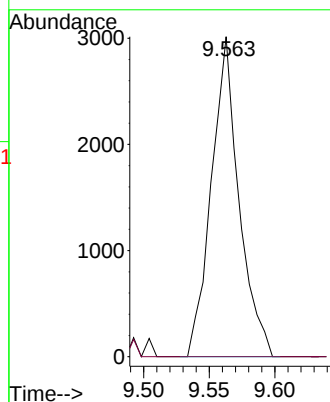
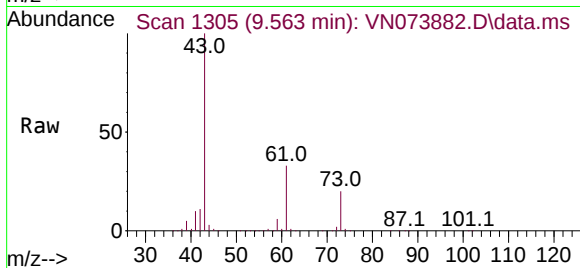
PB146976ZHE#08

Tgt Ion: 63 Resp: 4415

Ion Ratio Lower Upper

63 100

65 0.0 24.9 37.3#



#48

Methyl methacrylate

Concen: 1.787 ug/l

RT: 9.486 min Scan# 1292

Delta R.T. -0.012 min

Lab File: VN073882.D

Acq: 13 Aug 2022 20:55

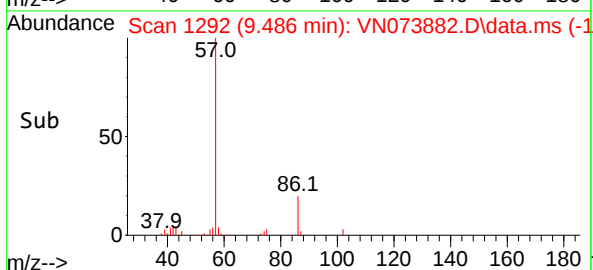
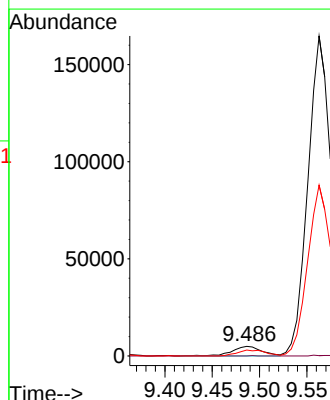
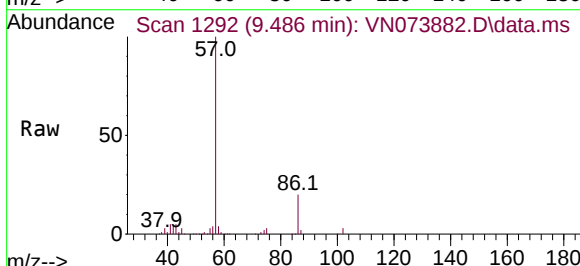
Tgt Ion: 41 Resp: 10982

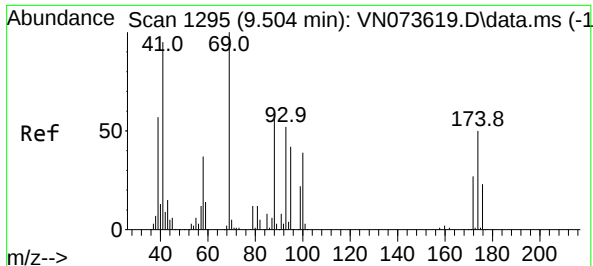
Ion Ratio Lower Upper

41 100

69 0.5 74.7 112.1#

39 57.7 45.6 68.4





#49

1,4-Dioxane

Concen: 2.153 ug/l

RT: 9.498 min Scan# 1294

Delta R.T. -0.006 min

Lab File: VN073882.D

Acq: 13 Aug 2022 20:55

Instrument :

MSVOA_N

ClientSampleId :

PB146976ZHE#08

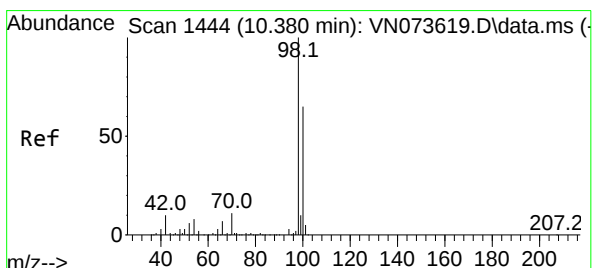
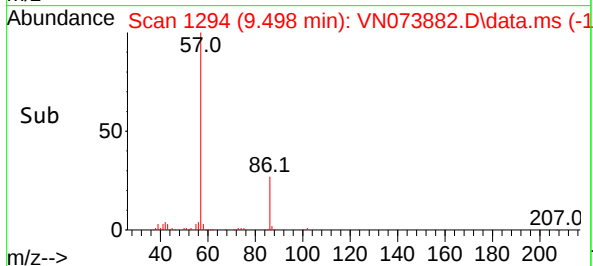
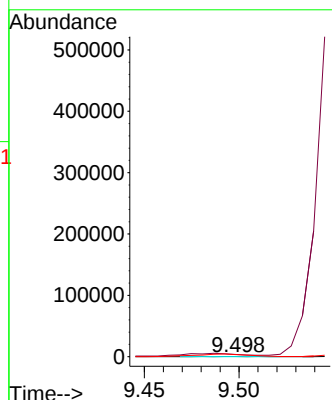
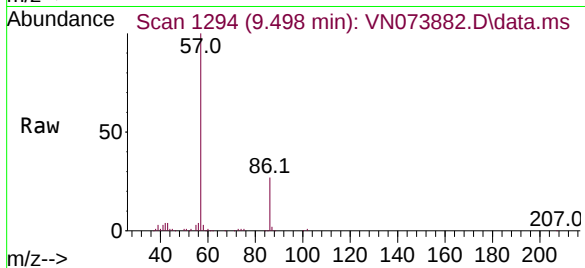
Tgt Ion: 88 Resp: 373

Ion Ratio Lower Upper

88 100

43 0.0 20.2 30.4#

58 2373.5 54.2 81.4#



#50

Toluene-d8

Concen: 42.205 ug/l

RT: 10.380 min Scan# 1444

Delta R.T. 0.000 min

Lab File: VN073882.D

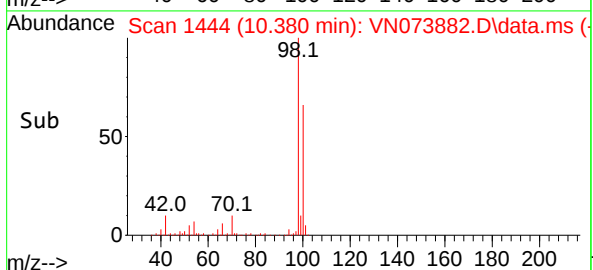
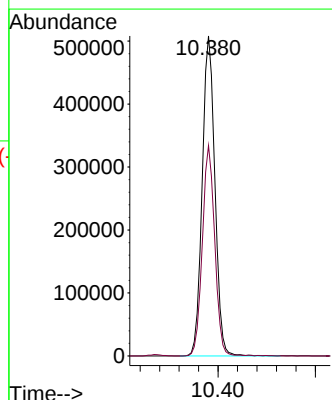
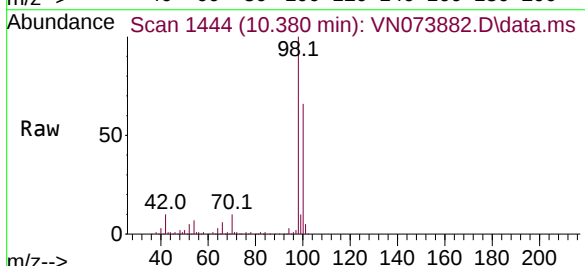
Acq: 13 Aug 2022 20:55

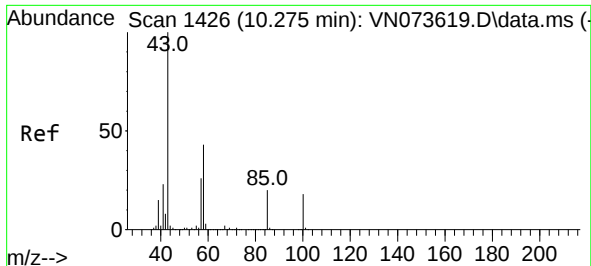
Tgt Ion: 98 Resp: 919609

Ion Ratio Lower Upper

98 100

100 64.2 52.6 78.8





#51

4-Methyl-2-Pentanone

Concen: 3.019 ug/l

RT: 10.275 min Scan# 1426

Delta R.T. -0.000 min

Lab File: VN073882.D

Acq: 13 Aug 2022 20:55

Instrument :

MSVOA_N

ClientSampleId :

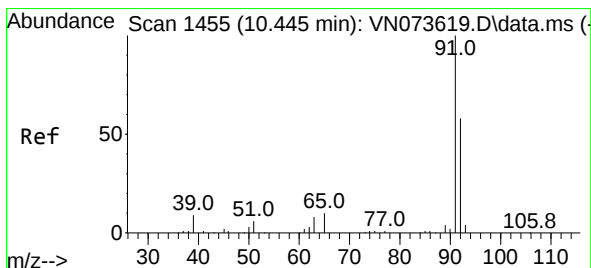
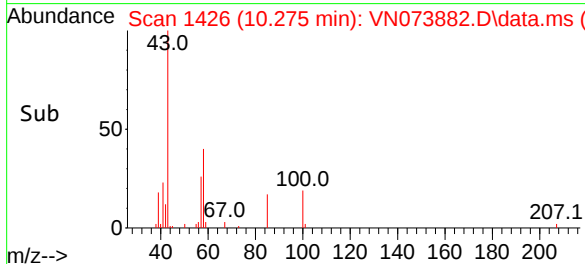
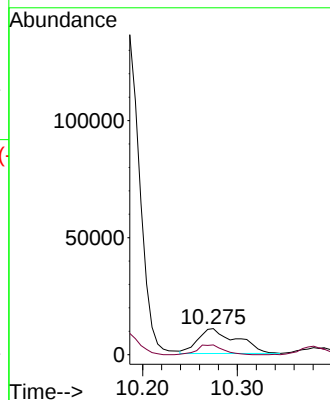
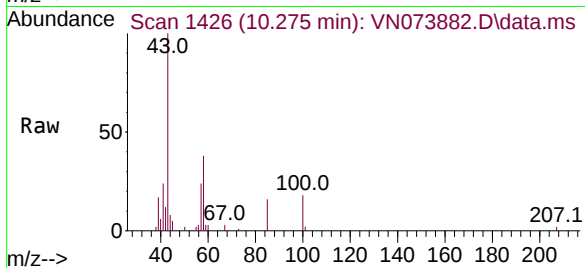
PB146976ZHE#08

Tgt Ion: 43 Resp: 30393

Ion Ratio Lower Upper

43 100

58 26.3 34.1 51.1#



#52

Toluene

Concen: 1.423 ug/l

RT: 10.445 min Scan# 1455

Delta R.T. 0.000 min

Lab File: VN073882.D

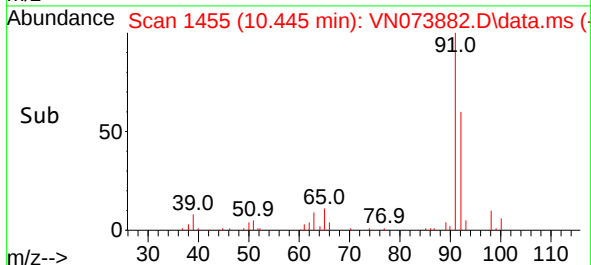
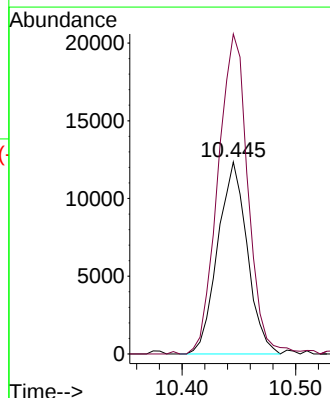
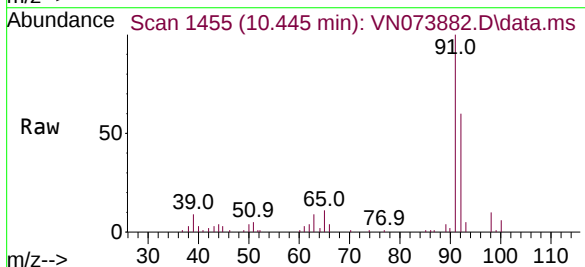
Acq: 13 Aug 2022 20:55

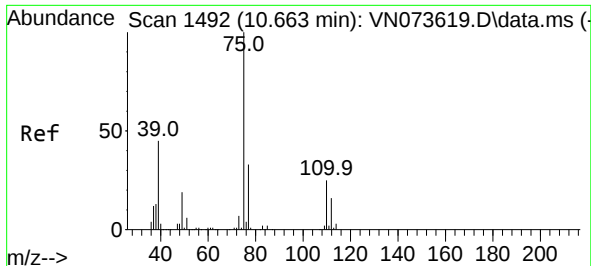
Tgt Ion: 92 Resp: 22278

Ion Ratio Lower Upper

92 100

91 170.1 138.6 207.8

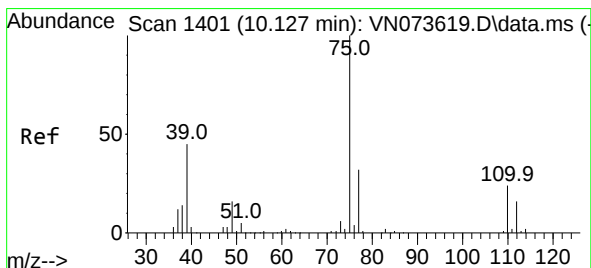
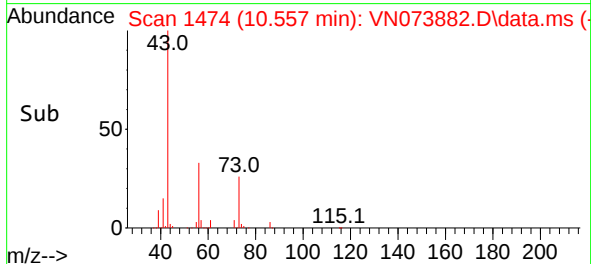
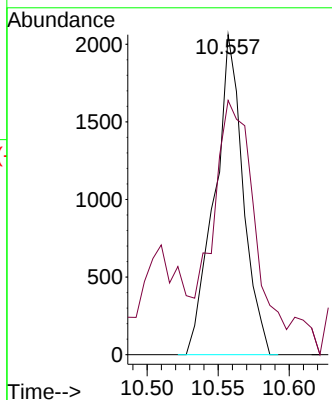
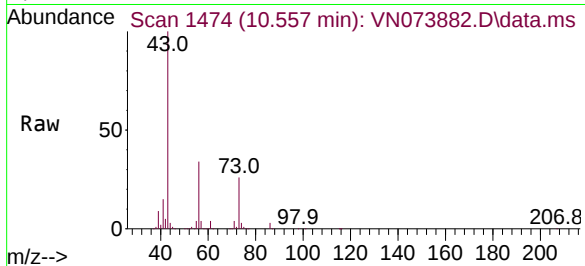




#53
 t-1,3-Dichloropropene
 Concen: 0.342 ug/l
 RT: 10.557 min Scan# 1410
 Delta R.T. -0.106 min
 Lab File: VN073882.D
 Acq: 13 Aug 2022 20:55

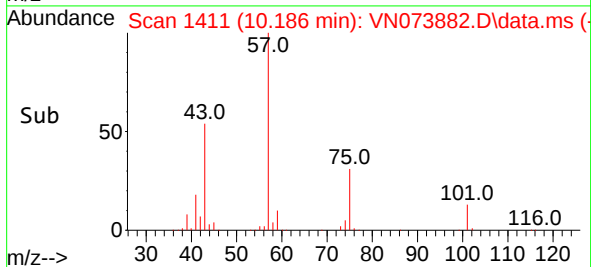
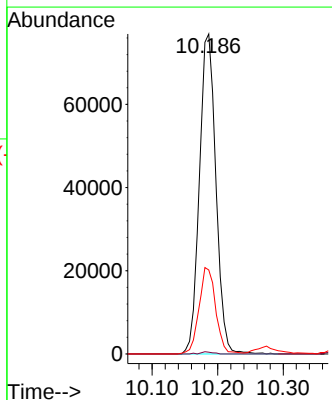
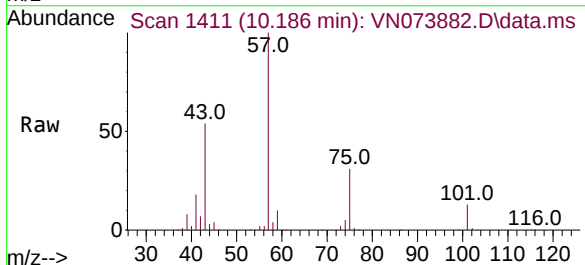
Instrument :
 MSVOA_N
 ClientSampleId :
 PB146976ZHE#08

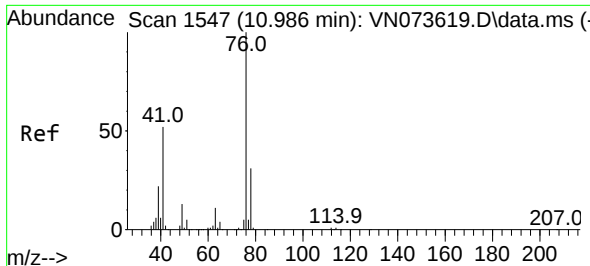
Tgt Ion: 75 Resp: 2884
 Ion Ratio Lower Upper
 75 100
 77 66.1 25.6 38.4#



#54
 cis-1,3-Dichloropropene
 Concen: 14.204 ug/l
 RT: 10.186 min Scan# 1411
 Delta R.T. 0.059 min
 Lab File: VN073882.D
 Acq: 13 Aug 2022 20:55

Tgt Ion: 75 Resp: 134921
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.2 37.8#
 39 26.3 35.7 53.5#





#57

1,3-Dichloropropane

Concen: 1.640 ug/l

RT: 11.033 min Scan# 1555

Delta R.T. 0.047 min

Lab File: VN073882.D

Acq: 13 Aug 2022 20:55

Instrument :

MSVOA_N

ClientSampleId :

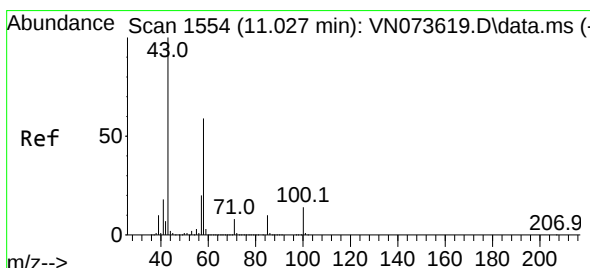
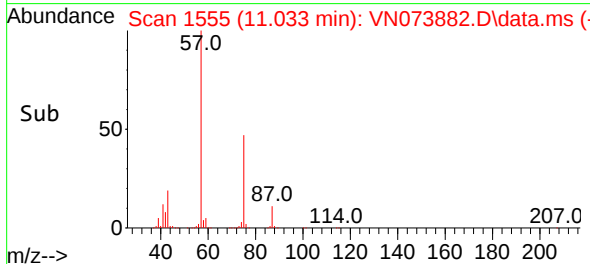
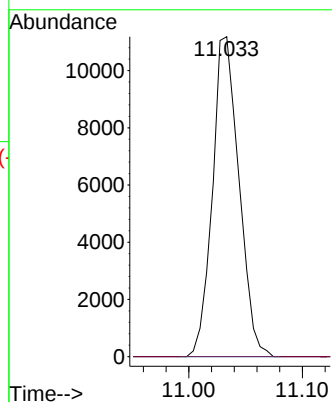
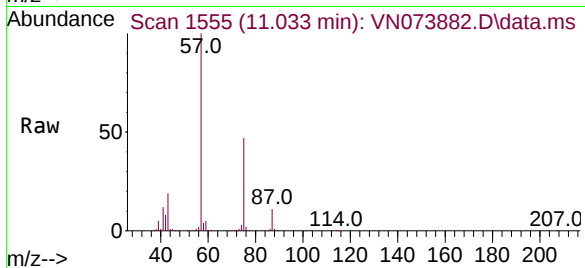
PB146976ZHE#08

Tgt Ion: 76 Resp: 18165

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.2#



#59

2-Hexanone

Concen: 26.893 ug/l

RT: 11.033 min Scan# 1555

Delta R.T. 0.006 min

Lab File: VN073882.D

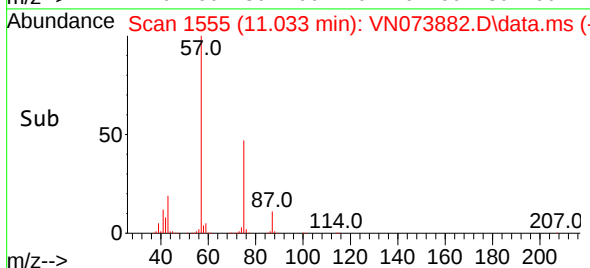
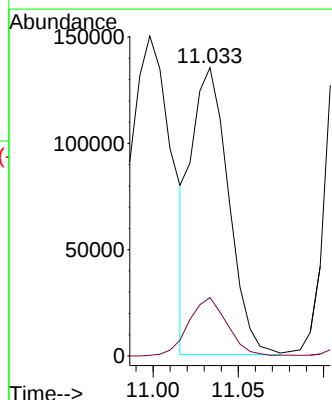
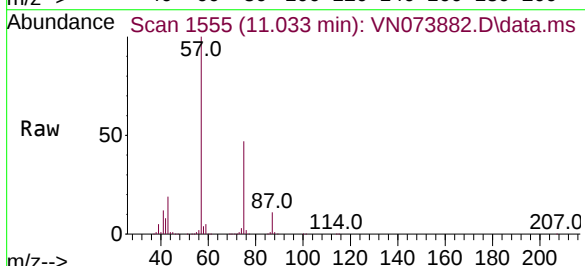
Acq: 13 Aug 2022 20:55

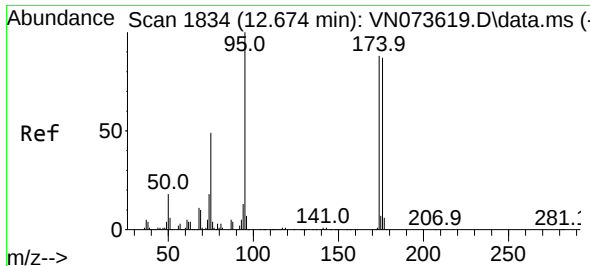
Tgt Ion: 43 Resp: 205147

Ion Ratio Lower Upper

43 100

58 21.2 29.7 89.1#

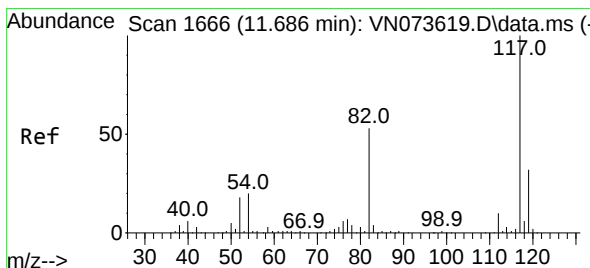
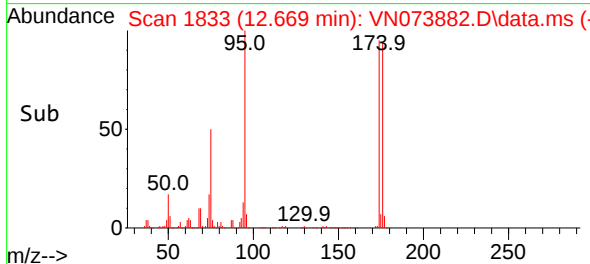
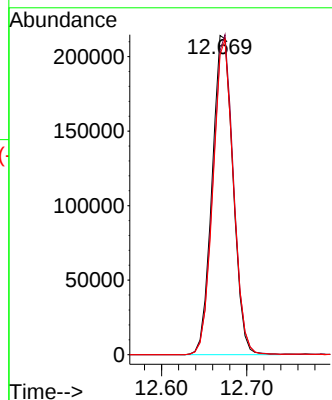
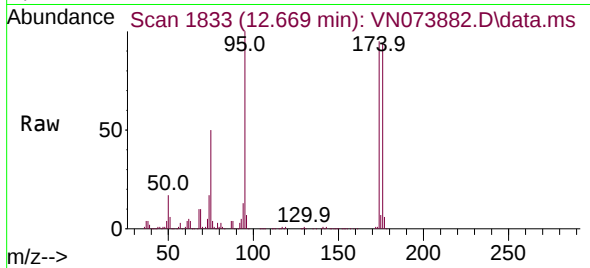




#62
4-Bromofluorobenzene
Concen: 47.806 ug/l
RT: 12.669 min Scan# 1833
Delta R.T. -0.005 min
Lab File: VN073882.D
Acq: 13 Aug 2022 20:55

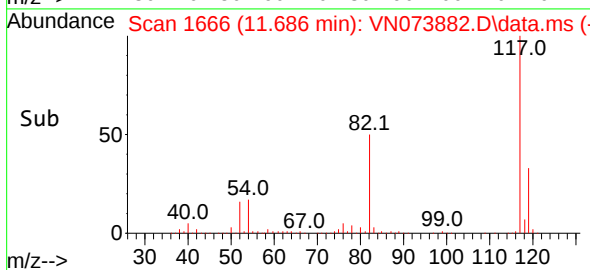
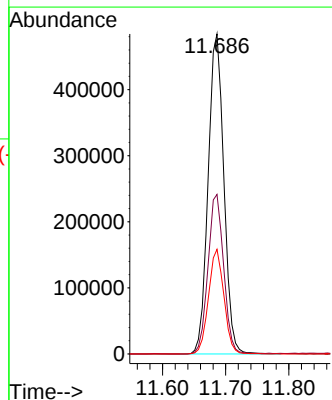
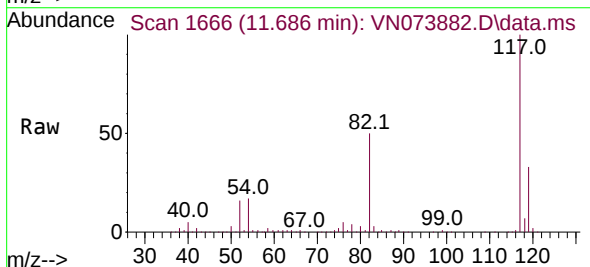
Instrument :
MSVOA_N
ClientSampleId :
PB146976ZHE#08

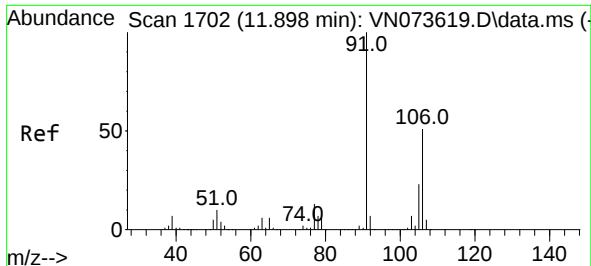
Tgt Ion: 95 Resp: 364693
Ion Ratio Lower Upper
95 100
174 98.3 0.0 167.6
176 95.9 0.0 163.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.686 min Scan# 1666
Delta R.T. 0.000 min
Lab File: VN073882.D
Acq: 13 Aug 2022 20:55

Tgt Ion: 117 Resp: 836823
Ion Ratio Lower Upper
117 100
82 49.9 44.2 66.2
119 32.7 25.4 38.0

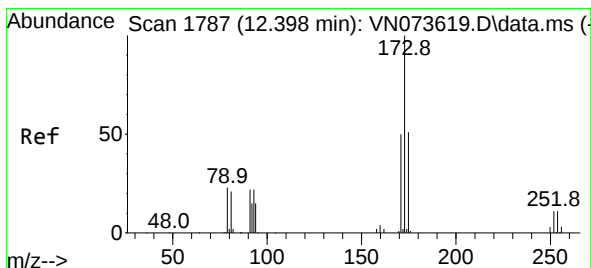
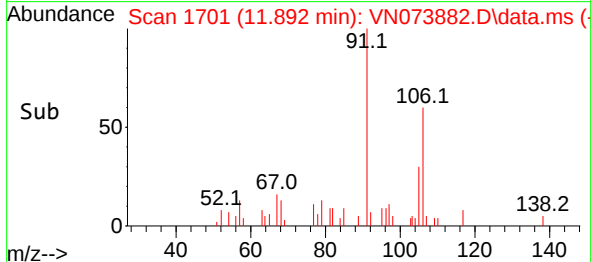
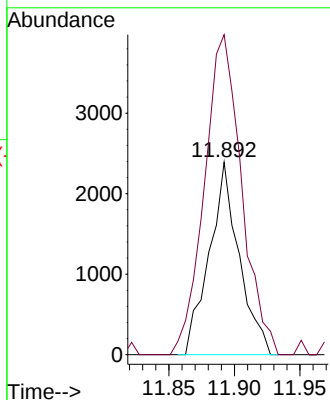
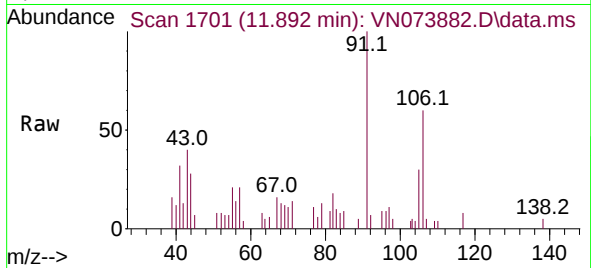




#68
m/p-Xylenes
Concen: 0.331 ug/l
RT: 11.892 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN073882.D
Acq: 13 Aug 2022 20:55

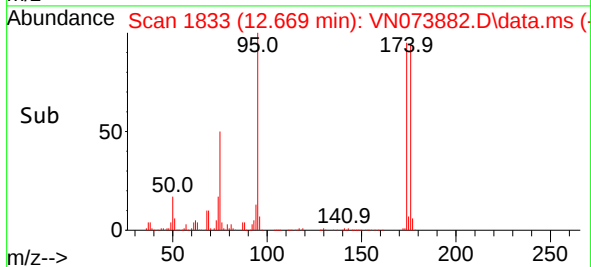
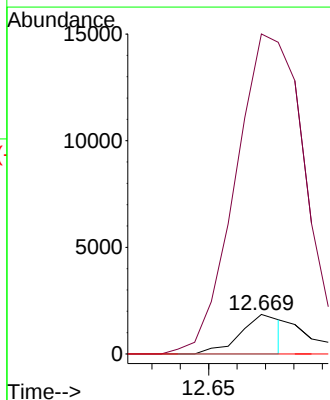
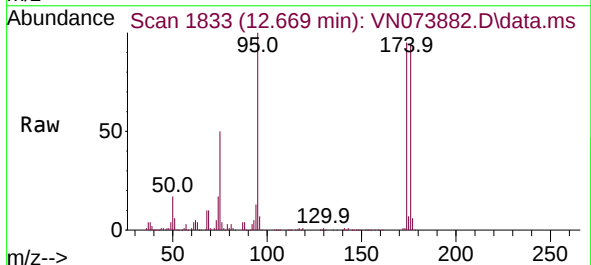
Instrument :
MSVOA_N
ClientSampleId :
PB146976ZHE#08

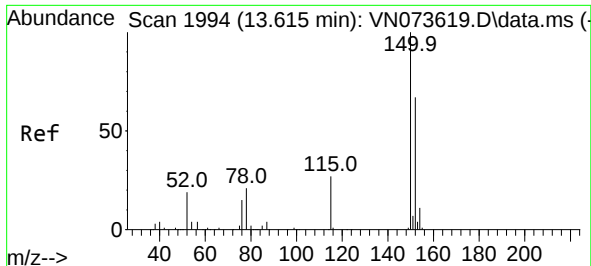
Tgt Ion:106 Resp: 3780
Ion Ratio Lower Upper
106 100
91 207.5 158.9 238.3



#71
Bromoform
Concen: 0.354 ug/l
RT: 12.669 min Scan# 1833
Delta R.T. 0.271 min
Lab File: VN073882.D
Acq: 13 Aug 2022 20:55

Tgt Ion:173 Resp: 1865
Ion Ratio Lower Upper
173 100
175 946.5 24.6 73.6#
254 0.0 0.1 0.1#

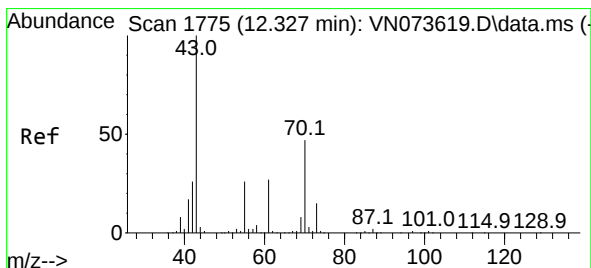
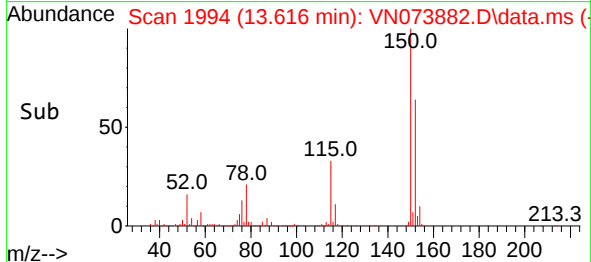
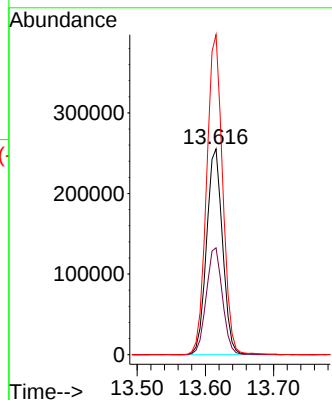
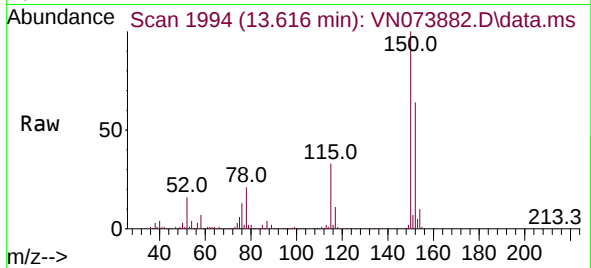




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.616 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VN073882.D
Acq: 13 Aug 2022 20:55

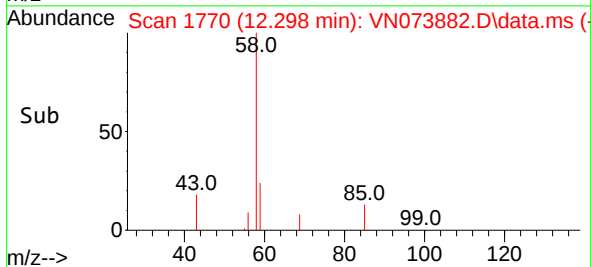
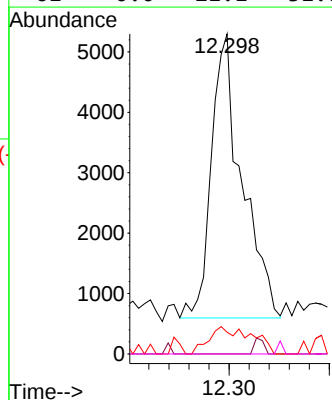
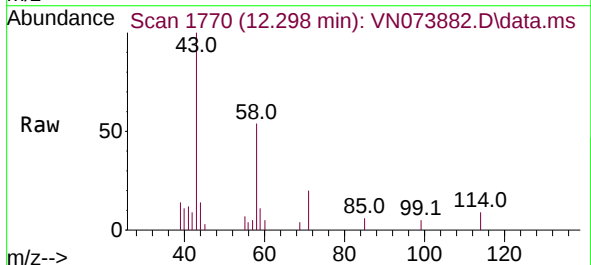
Instrument :
MSVOA_N
ClientSampleId :
PB146976ZHE#08

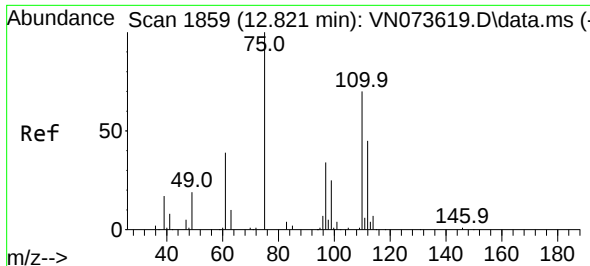
Tgt Ion:152 Resp: 416891
Ion Ratio Lower Upper
152 100
115 52.6 28.9 86.7
150 156.0 0.0 356.2



#74
N-ethyl acetate
Concen: 0.865 ug/l
RT: 12.298 min Scan# 1770
Delta R.T. -0.029 min
Lab File: VN073882.D
Acq: 13 Aug 2022 20:55

Tgt Ion: 43 Resp: 9973
Ion Ratio Lower Upper
43 100
70 0.0 39.0 58.4#
55 7.2 21.1 31.7#
61 0.0 21.1 31.7#

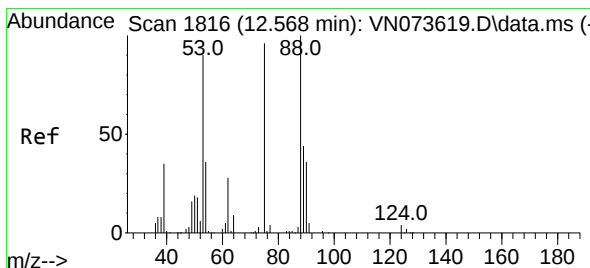
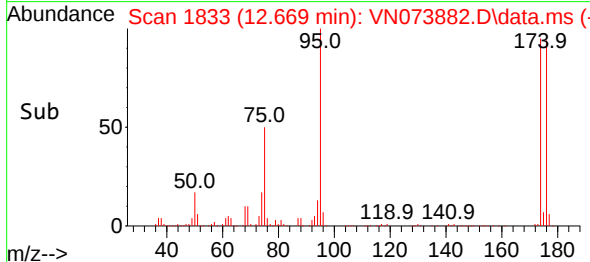
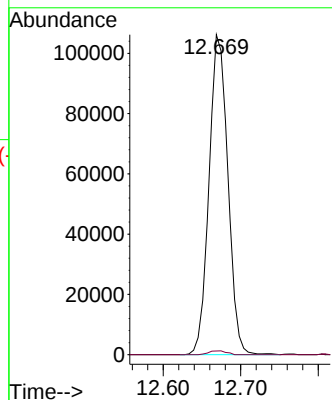
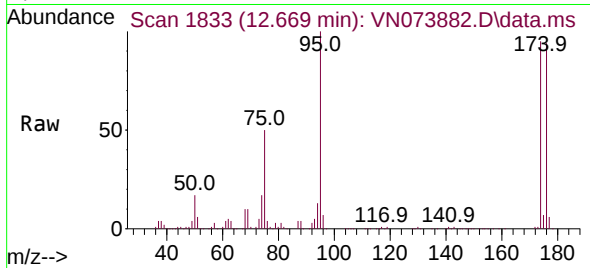




#76
1,2,3-Trichloropropane
Concen: 21.654 ug/l
RT: 12.669 min Scan# 1833
Delta R.T. -0.152 min
Lab File: VN073882.D
Acq: 13 Aug 2022 20:55

Instrument :
MSVOA_N
ClientSampleId :
PB146976ZHE#08

Tgt Ion: 75 Resp: 179330
Ion Ratio Lower Upper
75 100
77 1.1 98.5 295.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 55.746 ug/l
RT: 12.669 min Scan# 1833
Delta R.T. 0.100 min
Lab File: VN073882.D
Acq: 13 Aug 2022 20:55

Tgt Ion: 75 Resp: 179330
Ion Ratio Lower Upper
75 100
53 0.1 78.0 117.0#
89 0.0 37.2 55.8#

