

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062123\
 Data File : VN078325.D
 Acq On : 21 Jun 2023 16:22
 Operator : JC\MD
 Sample : 03336-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 22 04:51:17 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060623W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 07 05:05:00 2023
 Response via : Initial Calibration

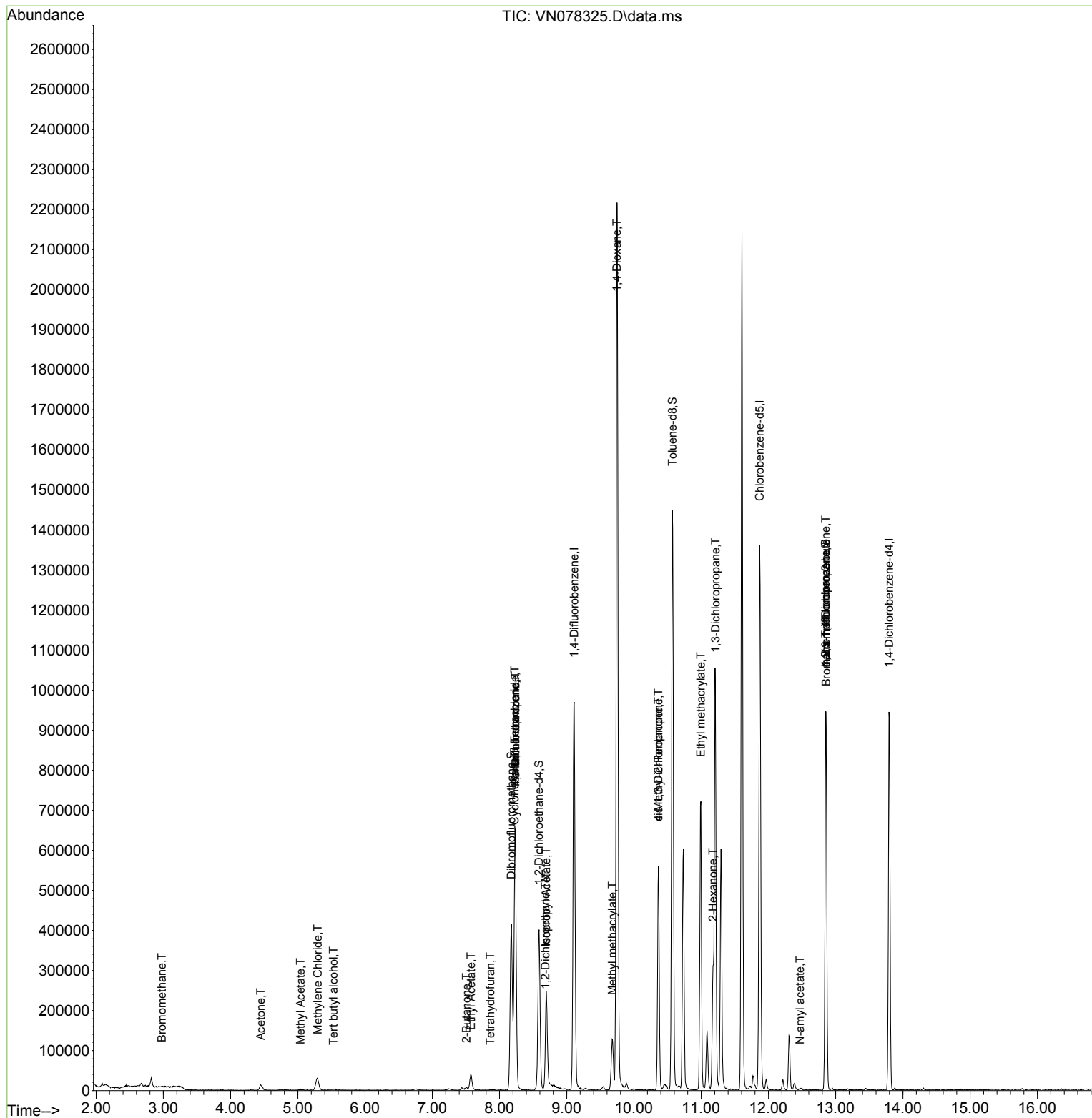
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.235	168	473649	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	863595	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	811200	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	254480	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	331052	52.422	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 104.840%	
35) Dibromofluoromethane	8.177	113	301183	55.158	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 110.320%	
50) Toluene-d8	10.571	98	1039686	49.390	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 98.780%	
62) 4-Bromofluorobenzene	12.853	95	333787	51.006	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 102.020%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	988	Below Cal	#	87
5) Bromomethane	2.977	94	1561	0.295	ug/l	87
11) Tert butyl alcohol	5.530	59	1548	1.775	ug/l #	72
16) Acetone	4.447	43	25518	14.038	ug/l #	84
18) Methyl Acetate	5.042	43	2840	0.339	ug/l #	67
20) Methylene Chloride	5.294	84	24193	4.028	ug/l	94
25) 2-Butanone	7.506	43	8961	3.206	ug/l	97
29) Tetrahydrofuran	7.865	42	841	0.450	ug/l #	49
31) Cyclohexane	8.224	56	11047	1.364	ug/l #	50
36) 1,1-Dichloropropene	8.235	75	39570	5.052	ug/l #	48
37) Ethyl Acetate	7.577	43	57320	9.368	ug/l #	95
38) Carbon Tetrachloride	8.230	117	51715	6.253	ug/l #	16
42) 1,2-Dichloroethane	8.682	62	2070	0.258	ug/l #	73
43) Isopropyl Acetate	8.694	43	276837	23.658	ug/l #	83
48) Methyl methacrylate	9.677	41	7036	1.433	ug/l #	32
49) 1,4-Dioxane	9.747	88	421	4.079	ug/l #	1
51) 4-Methyl-2-Pentanone	10.365	43	196485	31.887	ug/l #	41
54) cis-1,3-Dichloropropene	10.365	75	99734	10.884	ug/l #	70
56) Ethyl methacrylate	10.994	69	3190	0.392	ug/l #	1
57) 1,3-Dichloropropane	11.212	76	11357	1.205	ug/l #	42
59) 2-Hexanone	11.176	43	227859	53.108	ug/l #	19
71) Bromoform	12.859	173	2638	0.640	ug/l #	1
74) N-amyl acetate	12.470	43	3581	0.452	ug/l #	40
75) 1,1,2,2-Tetrachloroethane	12.953	83	96	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.853	75	182702	30.369	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	182702	93.304	ug/l #	15

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

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QLast Update : Wed Jun 07 05:05:00 2023
Response via : Initial Calibration

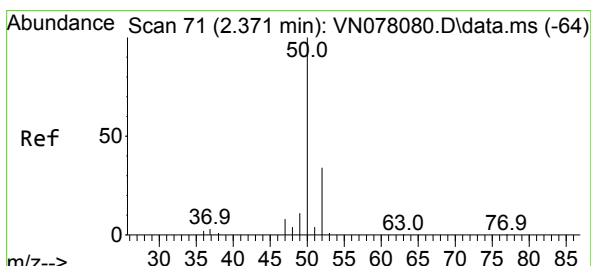
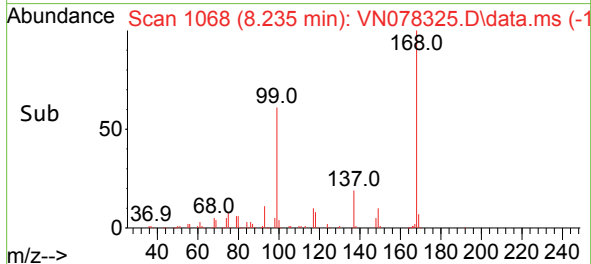
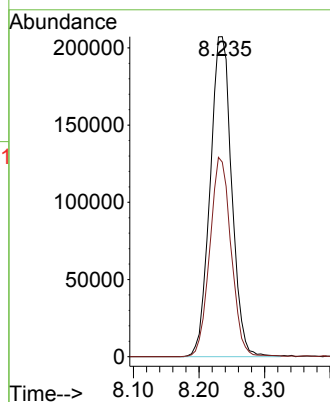
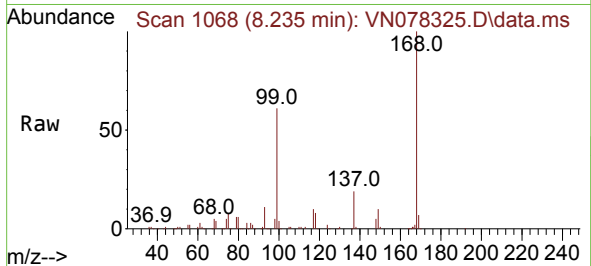




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. 0.000 min
Lab File: VN078325.D
Acq: 21 Jun 2023 16:22

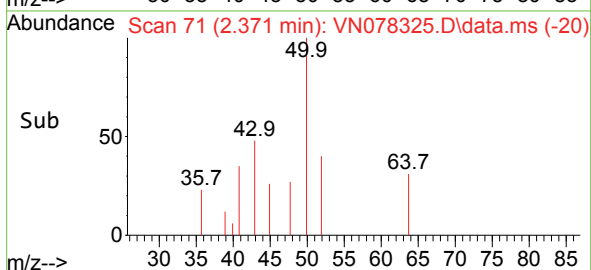
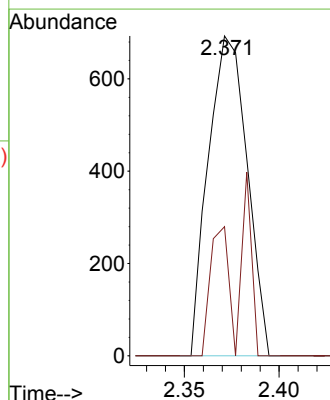
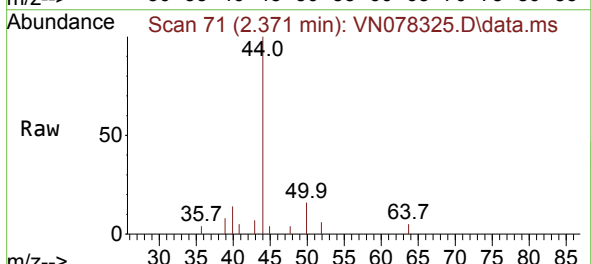
Instrument :
MSVOA_N
ClientSampleId :

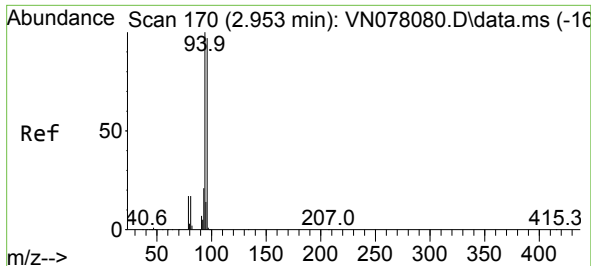
Tgt Ion:168 Resp: 473649
Ion Ratio Lower Upper
168 100
99 60.8 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.371 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN078325.D
Acq: 21 Jun 2023 16:22

Tgt Ion: 50 Resp: 988
Ion Ratio Lower Upper
50 100
52 40.4 26.5 39.7#

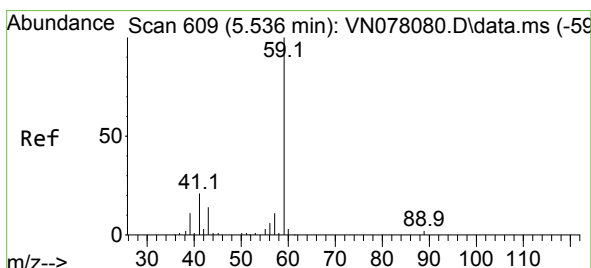
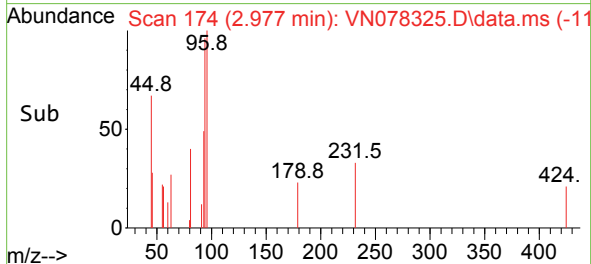
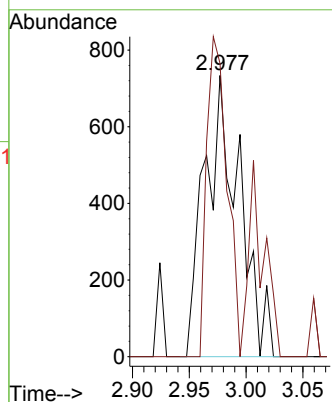
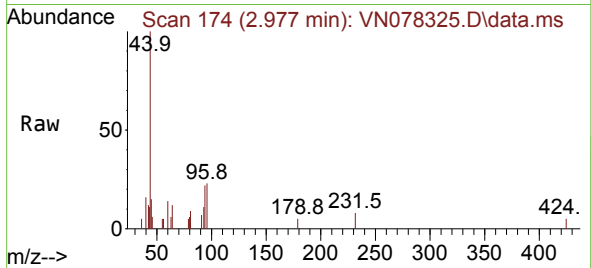




#5
Bromomethane
Concen: 0.295 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.024 min
Lab File: VN078325.D
Acq: 21 Jun 2023 16:22

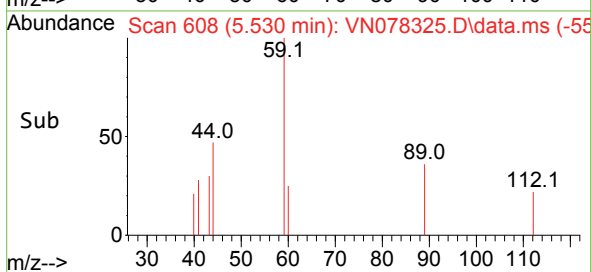
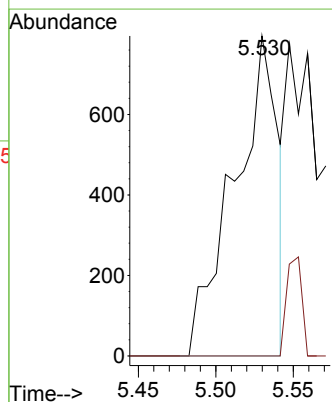
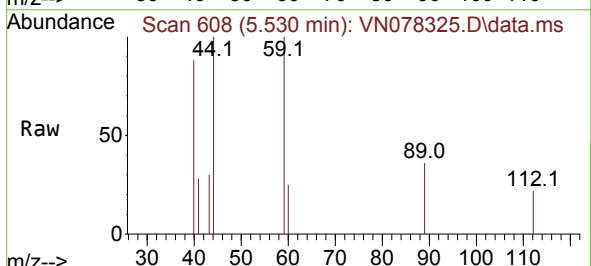
Instrument :
MSVOA_N
ClientSampleId :

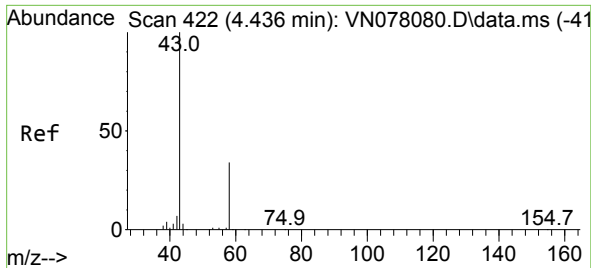
Tgt Ion: 94 Resp: 1561
Ion Ratio Lower Upper
94 100
96 104.2 73.1 109.7



#11
Tert butyl alcohol
Concen: 1.775 ug/l
RT: 5.530 min Scan# 608
Delta R.T. -0.006 min
Lab File: VN078325.D
Acq: 21 Jun 2023 16:22

Tgt Ion: 59 Resp: 1548
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

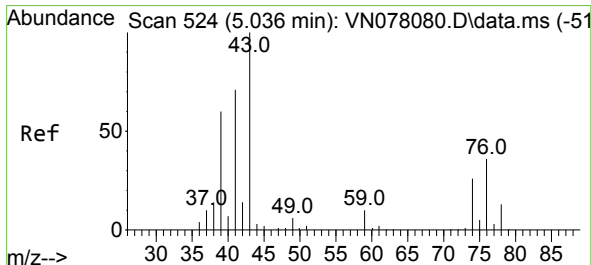
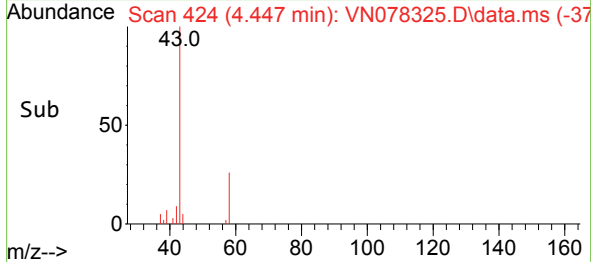
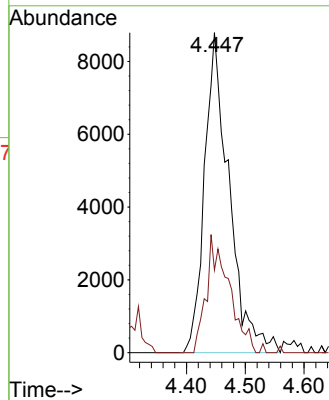
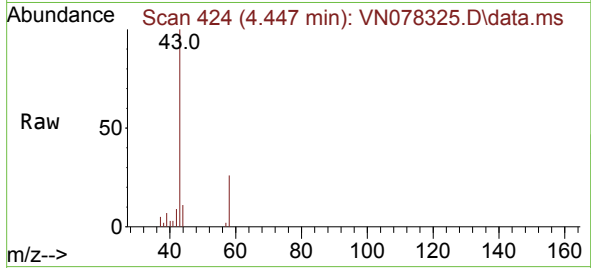




#16
Acetone
Concen: 14.038 ug/l
RT: 4.447 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN078325.D
Acq: 21 Jun 2023 16:22

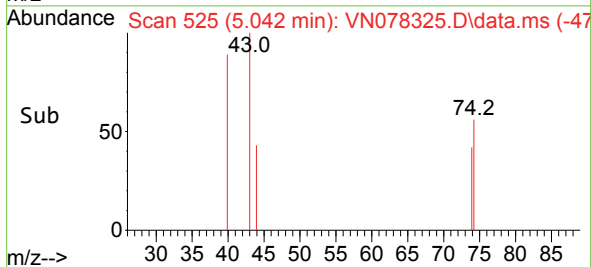
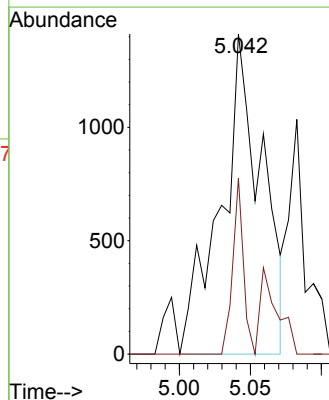
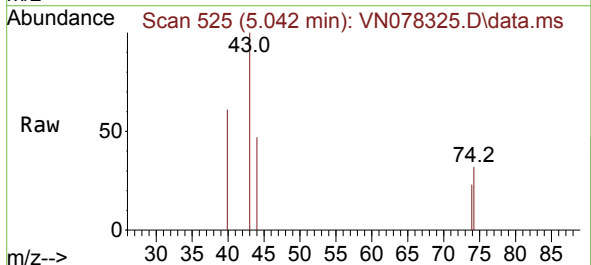
Instrument :
MSVOA_N
ClientSampleId :

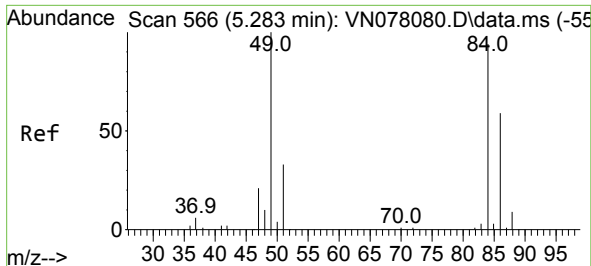
Tgt Ion: 43 Resp: 25518
Ion Ratio Lower Upper
43 100
58 25.8 28.0 42.0#



#18
Methyl Acetate
Concen: 0.339 ug/l
RT: 5.042 min Scan# 525
Delta R.T. 0.006 min
Lab File: VN078325.D
Acq: 21 Jun 2023 16:22

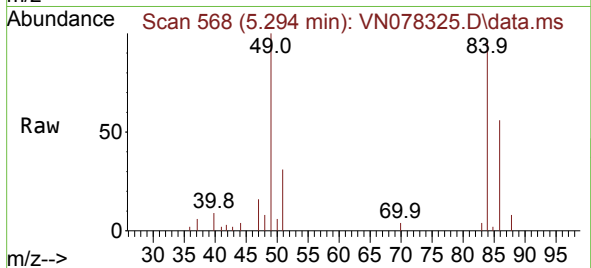
Tgt Ion: 43 Resp: 2840
Ion Ratio Lower Upper
43 100
74 14.2 26.2 39.4#



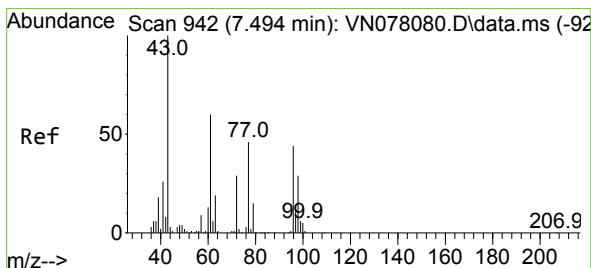
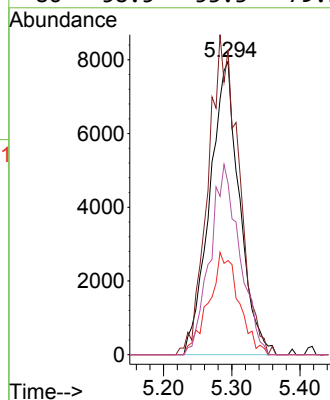
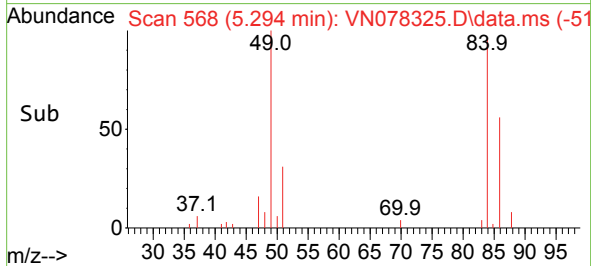


#20
Methylene Chloride
Concen: 4.028 ug/l
RT: 5.294 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN078325.D
Acq: 21 Jun 2023 16:22

Instrument :
MSVOA_N
ClientSampleId :

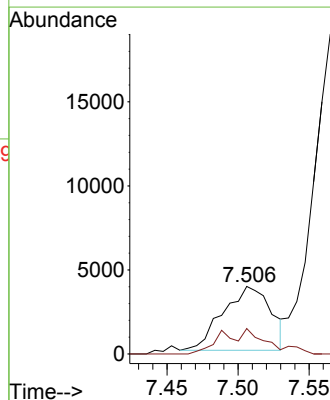
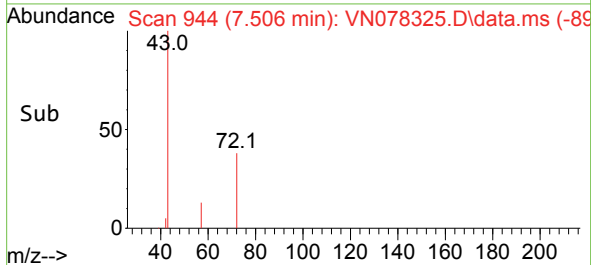
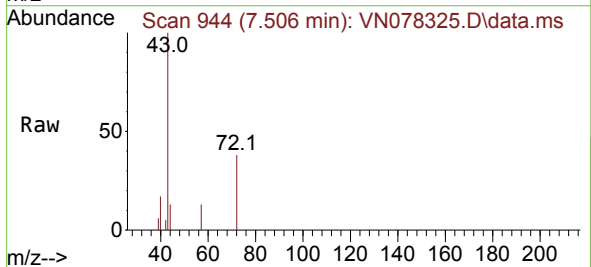


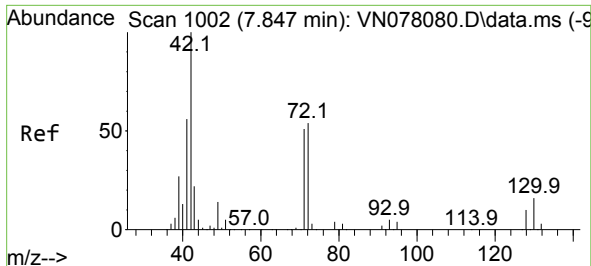
Tgt Ion:	84	Resp:	24193
Ion	Ratio	Lower	Upper
84	100		
49	103.9	79.7	119.5
51	32.1	25.2	37.8
86	58.5	53.3	79.9



#25
2-Butanone
Concen: 3.206 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.012 min
Lab File: VN078325.D
Acq: 21 Jun 2023 16:22

Tgt Ion:	43	Resp:	8961
Ion	Ratio	Lower	Upper
43	100		
72	39.8	30.2	45.2

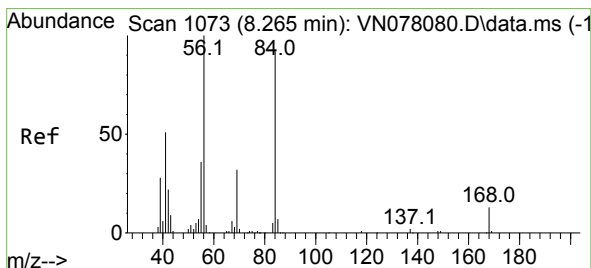
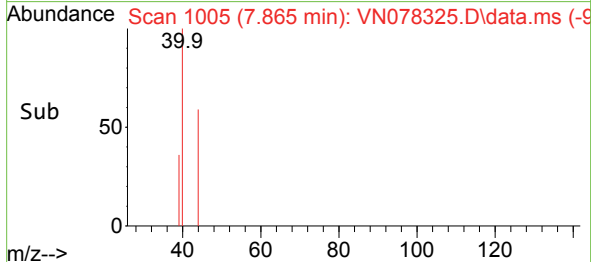
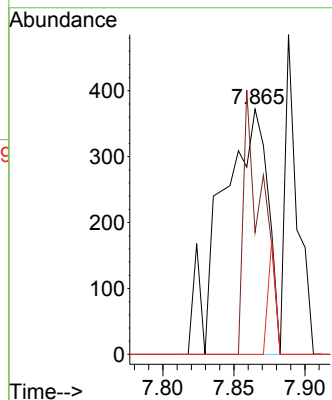
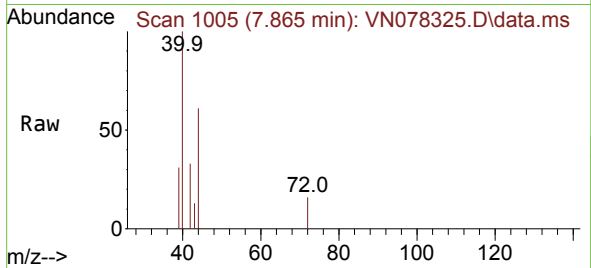




#29
Tetrahydrofuran
Concen: 0.450 ug/l
RT: 7.865 min Scan# 1005
Delta R.T. 0.018 min
Lab File: VN078325.D
Acq: 21 Jun 2023 16:22

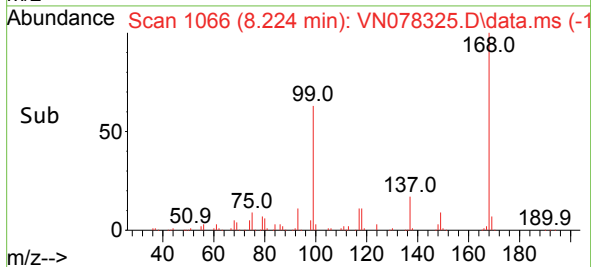
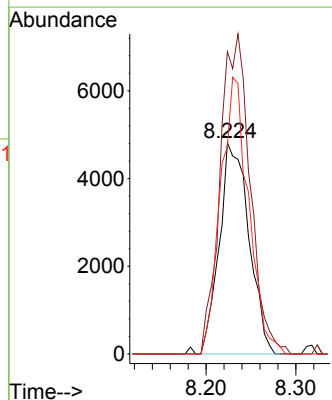
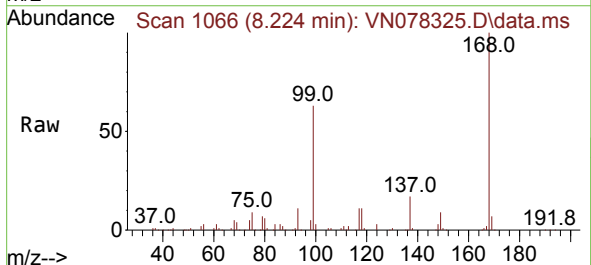
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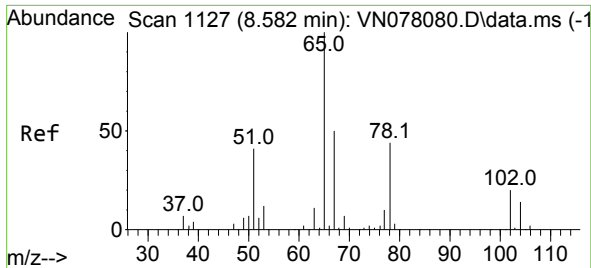
Tgt Ion: 42 Resp: 841
Ion Ratio Lower Upper
42 100
72 42.9 49.8 74.6#
71 0.0 47.4 71.2#



#31
Cyclohexane
Concen: 1.364 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.041 min
Lab File: VN078325.D
Acq: 21 Jun 2023 16:22

Tgt Ion: 56 Resp: 11047
Ion Ratio Lower Upper
56 100
69 143.2 26.8 40.2#
84 98.3 81.8 122.6

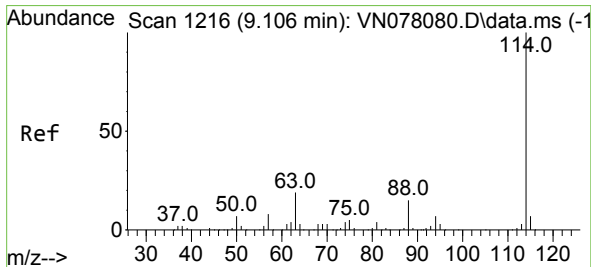
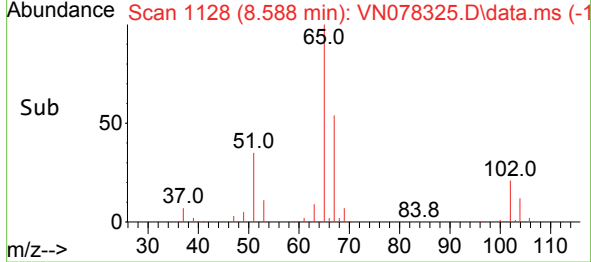
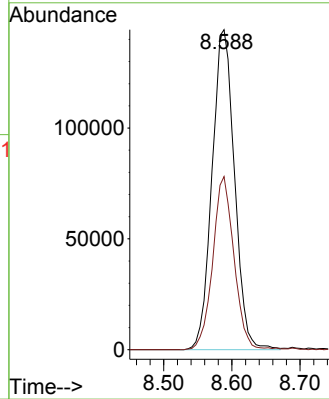
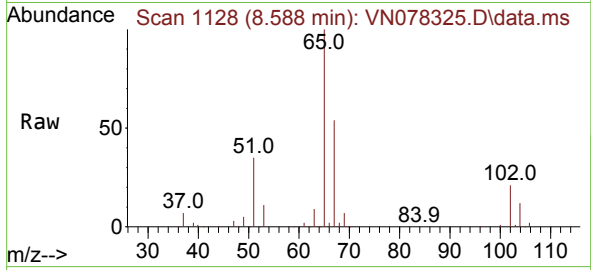




#33
1,2-Dichloroethane-d4
Concen: 52.422 ug/l
RT: 8.588 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN078325.D
Acq: 21 Jun 2023 16:22

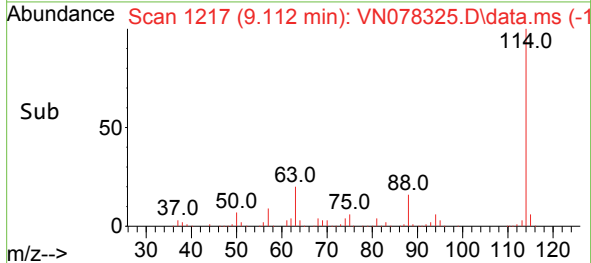
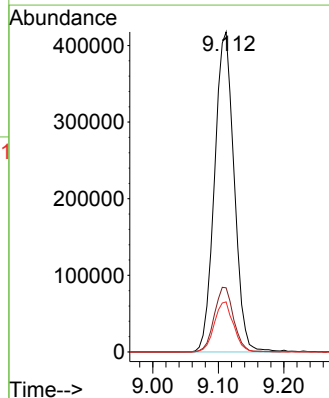
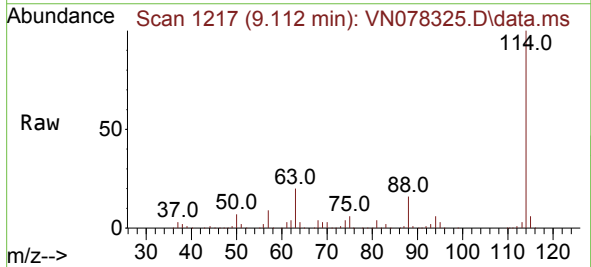
Instrument :
MSVOA_N
ClientSampleId :

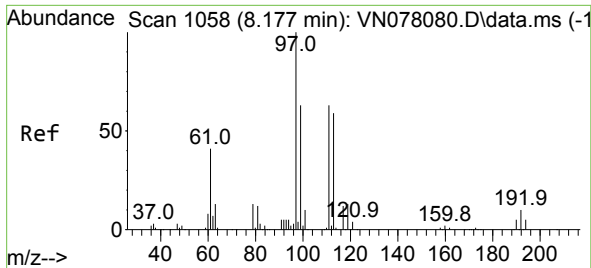
Tgt Ion: 65 Resp: 331052
Ion Ratio Lower Upper
65 100
67 51.3 0.0 106.6



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.112 min Scan# 1217
Delta R.T. 0.006 min
Lab File: VN078325.D
Acq: 21 Jun 2023 16:22

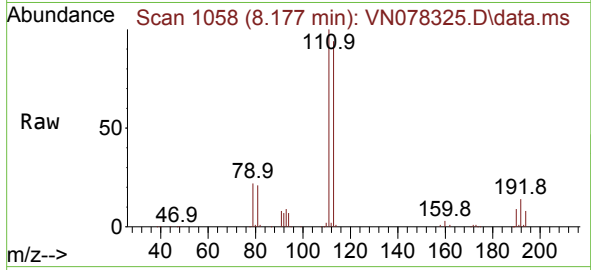
Tgt Ion:114 Resp: 863595
Ion Ratio Lower Upper
114 100
63 20.1 0.0 36.4
88 15.7 0.0 30.6



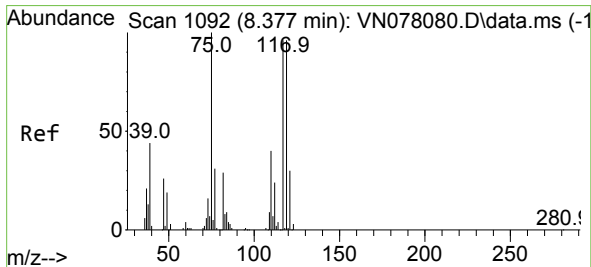
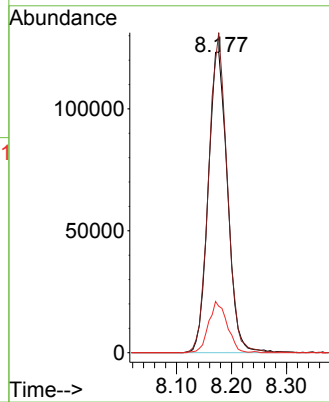
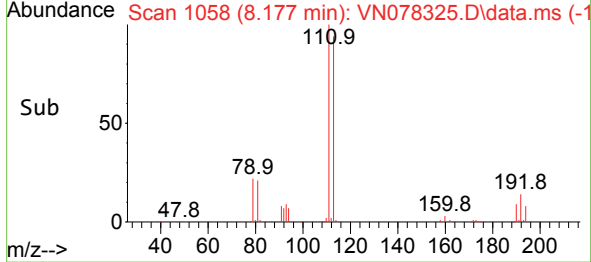


#35
 Dibromofluoromethane
 Concen: 55.158 ug/l
 RT: 8.177 min Scan# 1058
 Delta R.T. 0.000 min
 Lab File: VN078325.D
 Acq: 21 Jun 2023 16:22

Instrument :
 MSVOA_N
 ClientSampleId :

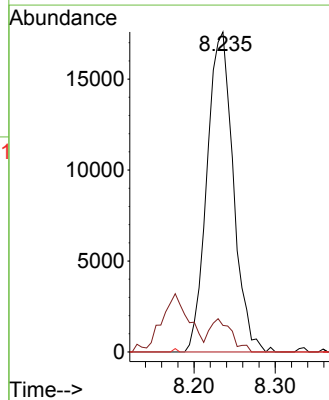
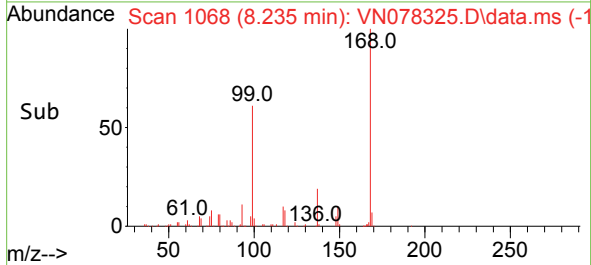
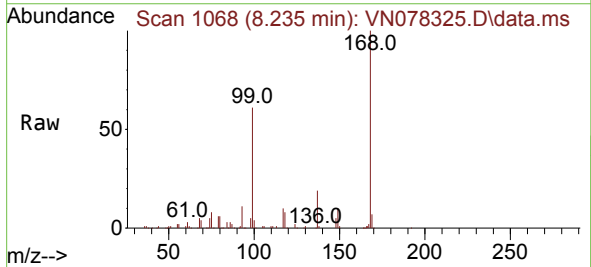


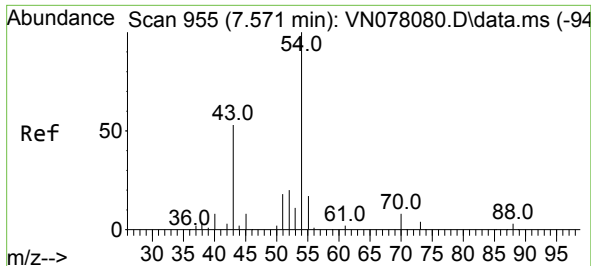
Tgt Ion:113 Resp: 301183
 Ion Ratio Lower Upper
 113 100
 111 102.4 82.6 123.8
 192 16.3 12.7 19.1



#36
 1,1-Dichloropropene
 Concen: 5.052 ug/l
 RT: 8.235 min Scan# 1068
 Delta R.T. -0.141 min
 Lab File: VN078325.D
 Acq: 21 Jun 2023 16:22

Tgt Ion: 75 Resp: 39570
 Ion Ratio Lower Upper
 75 100
 110 8.6 19.1 57.3#
 77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 9.368 ug/l

RT: 7.577 min Scan# 91

Delta R.T. 0.006 min

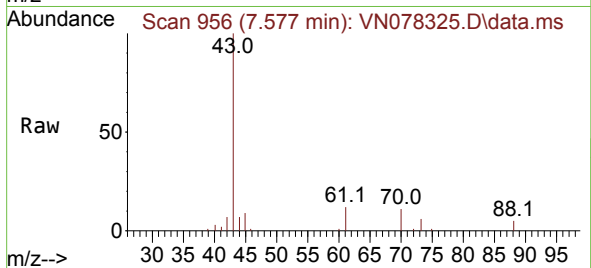
Lab File: VN078325.D

Acq: 21 Jun 2023 16:22

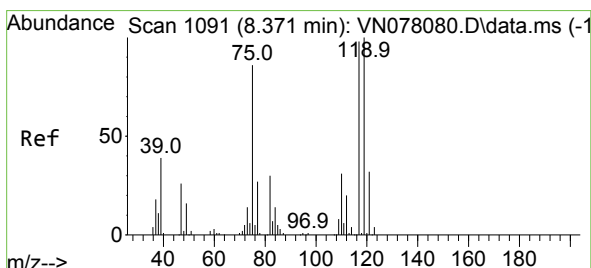
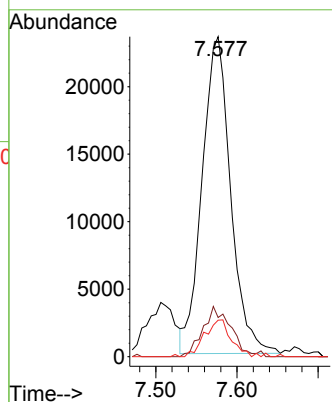
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	43	Resp:	57320
Ion	Ratio	Lower	Upper
43	100		
61	15.6	13.2	19.8
70	11.1	11.3	16.9



#38

Carbon Tetrachloride

Concen: 6.253 ug/l

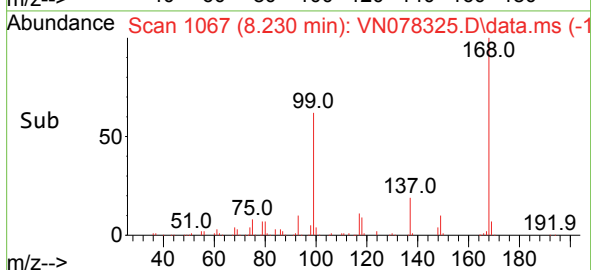
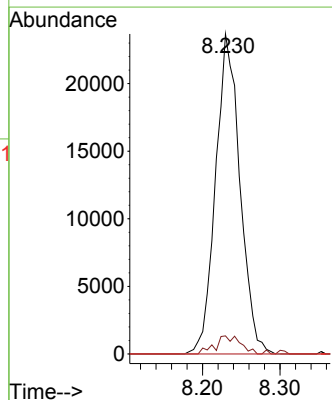
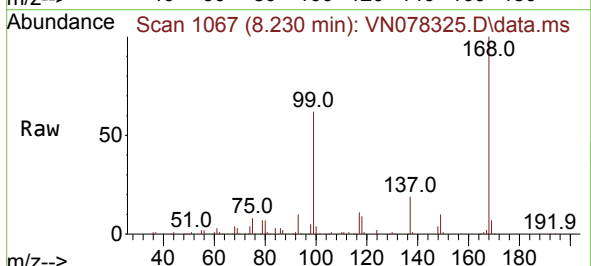
RT: 8.230 min Scan# 1067

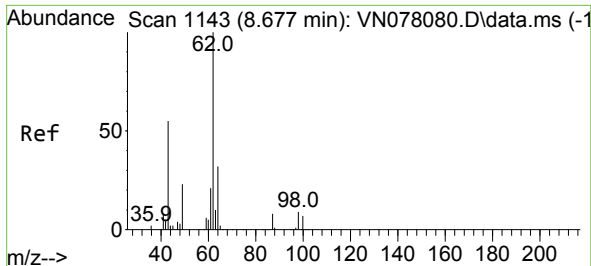
Delta R.T. -0.141 min

Lab File: VN078325.D

Acq: 21 Jun 2023 16:22

Tgt Ion:	117	Resp:	51715
Ion	Ratio	Lower	Upper
117	100		
119	5.6	77.3	115.9
121	0.0	23.3	34.9





#42

1,2-Dichloroethane

Concen: 0.258 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. 0.006 min

Lab File: VN078325.D

Acq: 21 Jun 2023 16:22

Instrument :

MSVOA_N

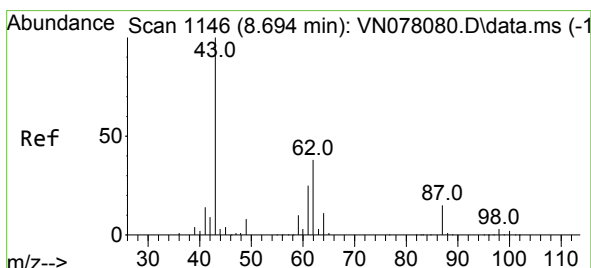
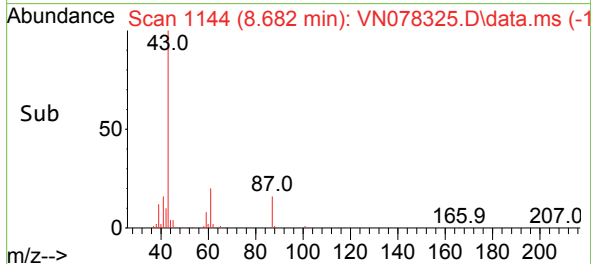
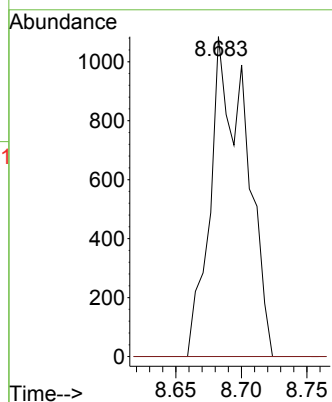
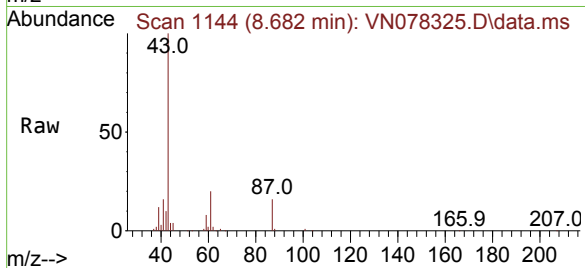
ClientSampleId :

Tgt Ion: 62 Resp: 2070

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 23.658 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VN078325.D

Acq: 21 Jun 2023 16:22

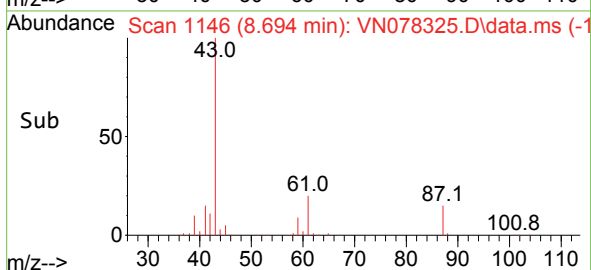
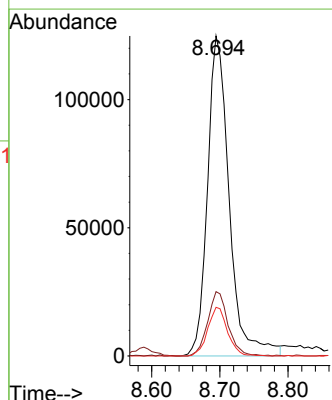
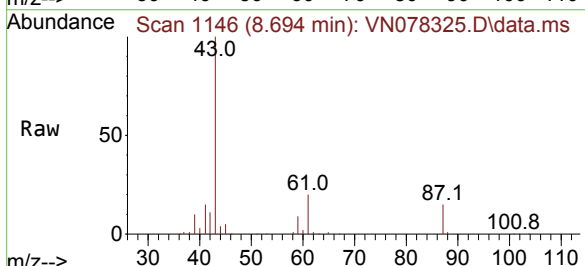
Tgt Ion: 43 Resp: 276837

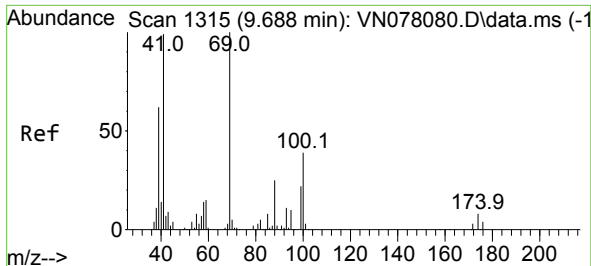
Ion Ratio Lower Upper

43 100

61 18.8 24.7 37.1#

87 13.9 14.6 21.8#

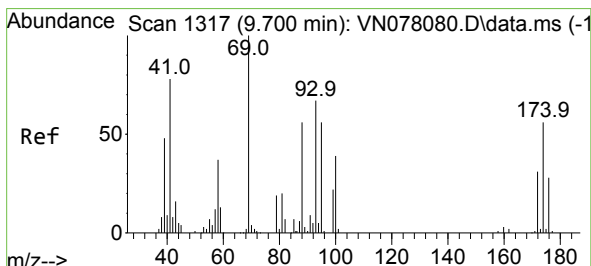
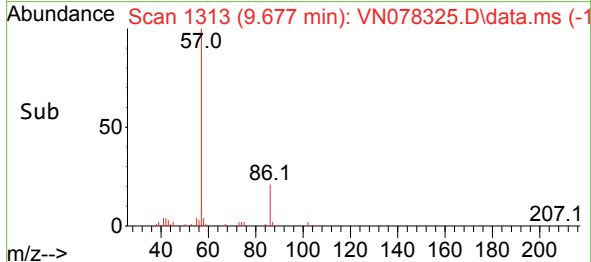
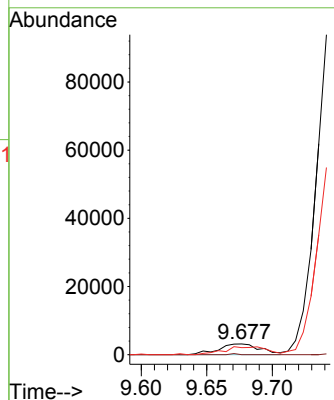
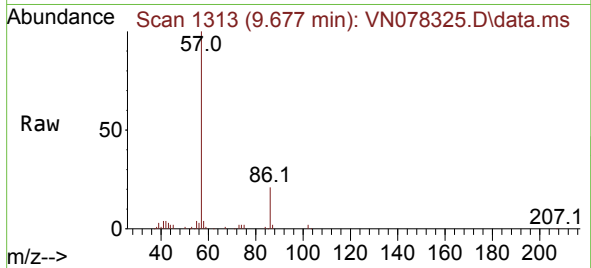




#48
Methyl methacrylate
Concen: 1.433 ug/l
RT: 9.677 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN078325.D
Acq: 21 Jun 2023 16:22

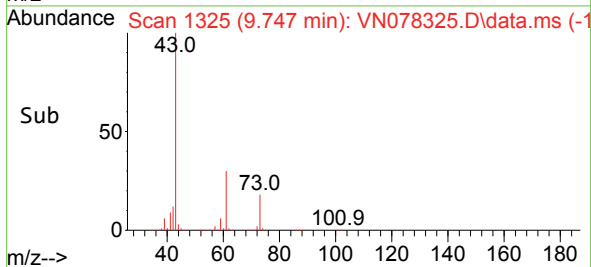
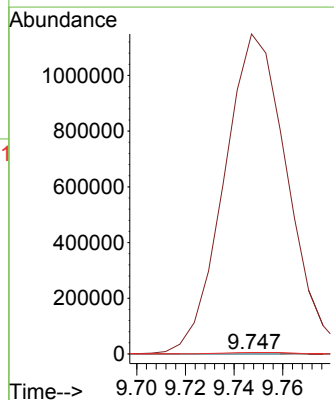
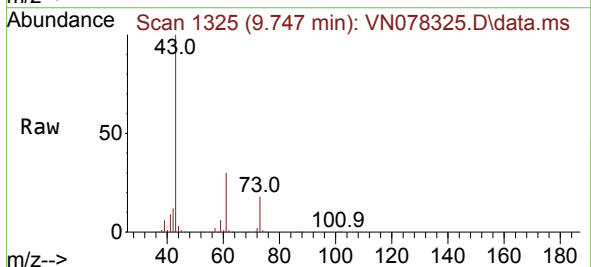
Instrument :
MSVOA_N
ClientSampleId :

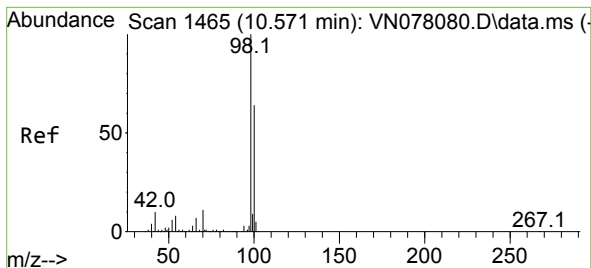
Tgt Ion: 41 Resp: 7036
Ion Ratio Lower Upper
41 100
69 1.6 90.4 135.6#
39 75.2 54.6 81.8



#49
1,4-Dioxane
Concen: 4.079 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.047 min
Lab File: VN078325.D
Acq: 21 Jun 2023 16:22

Tgt Ion: 88 Resp: 421
Ion Ratio Lower Upper
88 100
43 500401.4 17.0 25.6#
58 2624.9 47.0 70.4#





#50

Toluene-d8

Concen: 49.390 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN078325.D

Acq: 21 Jun 2023 16:22

Instrument :

MSVOA_N

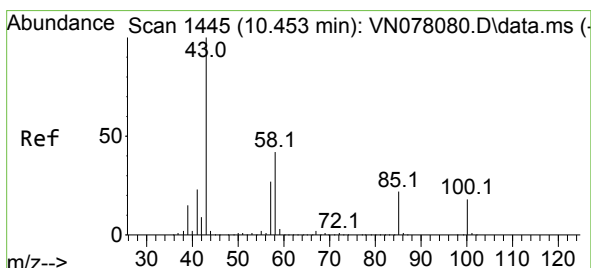
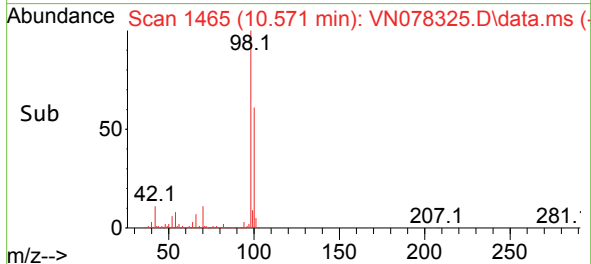
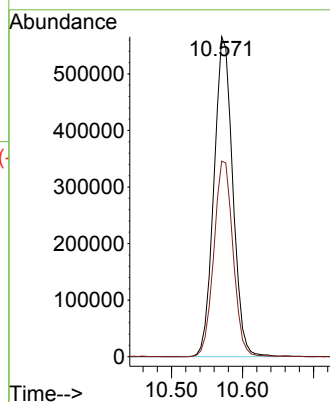
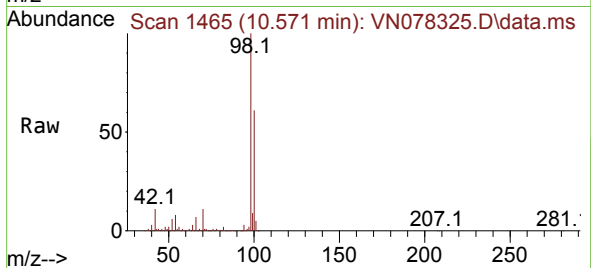
ClientSampleId :

Tgt Ion: 98 Resp: 1039686

Ion Ratio Lower Upper

98 100

100 62.4 52.0 78.0



#51

4-Methyl-2-Pentanone

Concen: 31.887 ug/l

RT: 10.365 min Scan# 1430

Delta R.T. -0.088 min

Lab File: VN078325.D

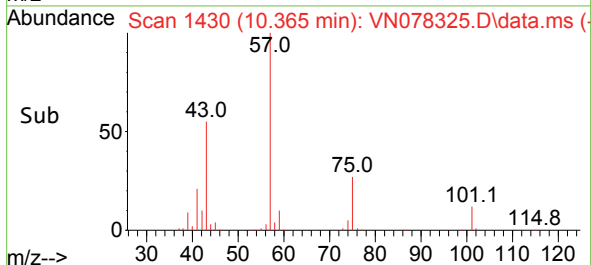
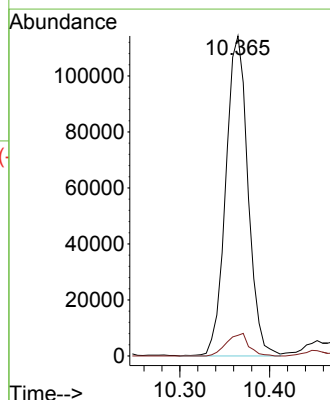
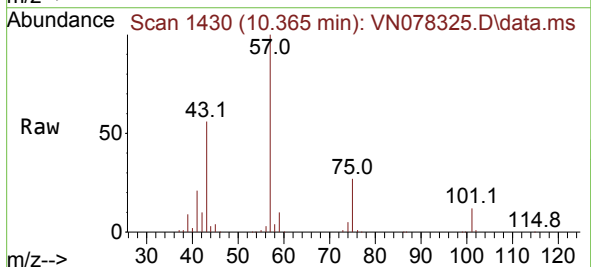
Acq: 21 Jun 2023 16:22

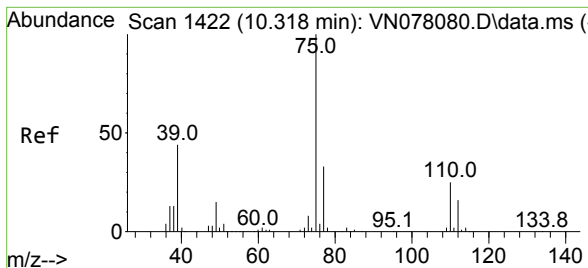
Tgt Ion: 43 Resp: 196485

Ion Ratio Lower Upper

43 100

58 7.0 36.6 54.8#

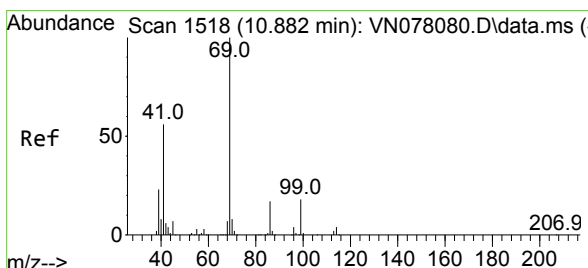
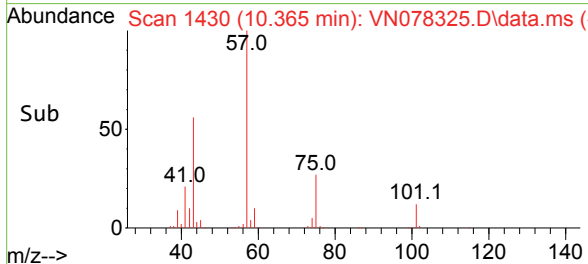
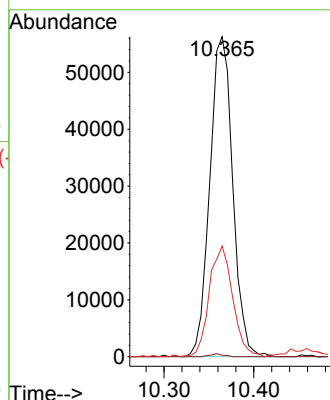
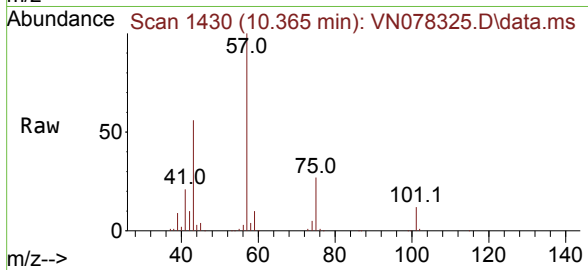




#54
 cis-1,3-Dichloropropene
 Concen: 10.884 ug/l
 RT: 10.365 min Scan# 1422
 Delta R.T. 0.047 min
 Lab File: VN078325.D
 Acq: 21 Jun 2023 16:22

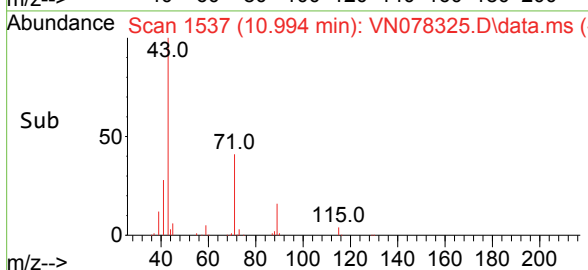
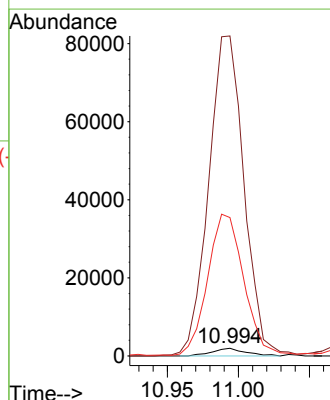
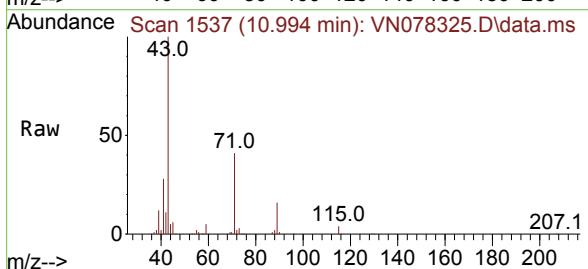
Instrument :
 MSVOA_N
 ClientSampleId :

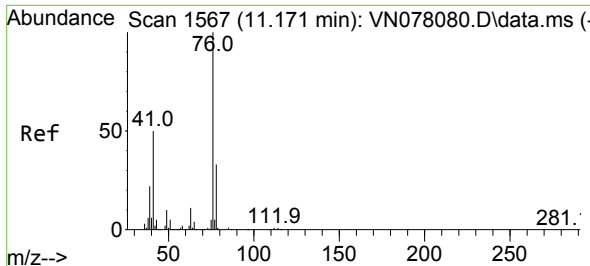
Tgt Ion: 75 Resp: 99734
 Ion Ratio Lower Upper
 75 100
 77 0.5 26.1 39.1#
 39 34.6 31.6 47.4



#56
 Ethyl methacrylate
 Concen: 0.392 ug/l
 RT: 10.994 min Scan# 1537
 Delta R.T. 0.112 min
 Lab File: VN078325.D
 Acq: 21 Jun 2023 16:22

Tgt Ion: 69 Resp: 3190
 Ion Ratio Lower Upper
 69 100
 41 4454.8 39.6 59.4#
 39 1993.9 28.6 43.0#





#57

1,3-Dichloropropane

Concen: 1.205 ug/l

RT: 11.212 min Scan# 11

Delta R.T. 0.041 min

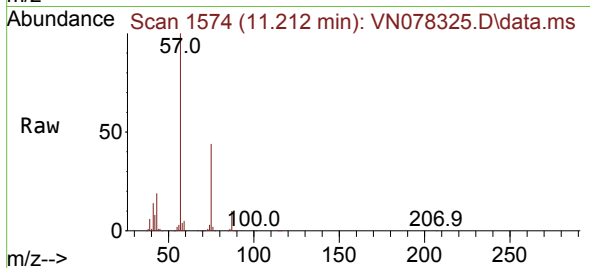
Lab File: VN078325.D

Acq: 21 Jun 2023 16:22

Instrument :

MSVOA_N

ClientSampleId :

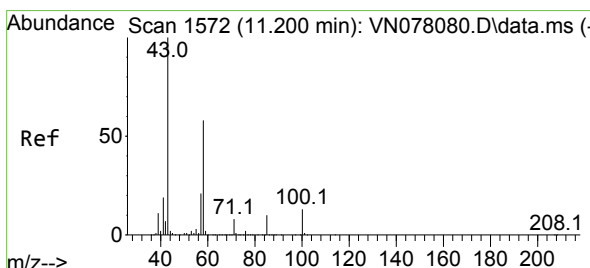
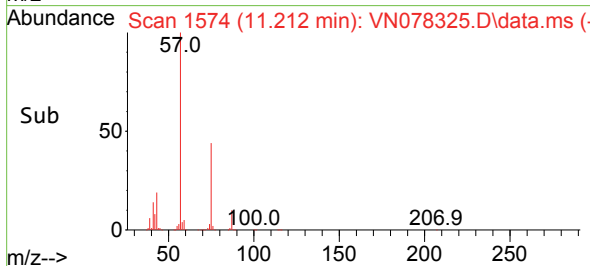
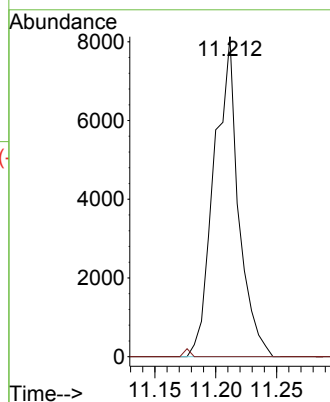


Tgt Ion: 76 Resp: 11357

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 53.108 ug/l

RT: 11.176 min Scan# 1568

Delta R.T. -0.023 min

Lab File: VN078325.D

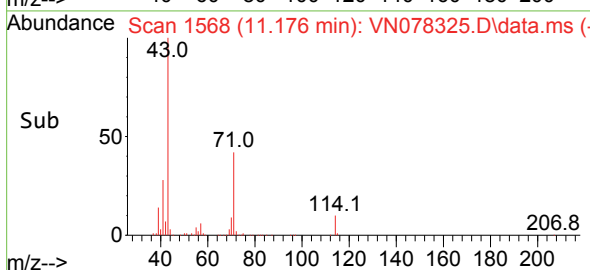
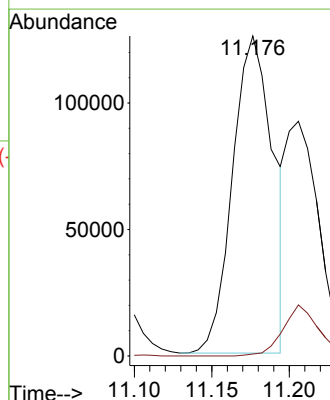
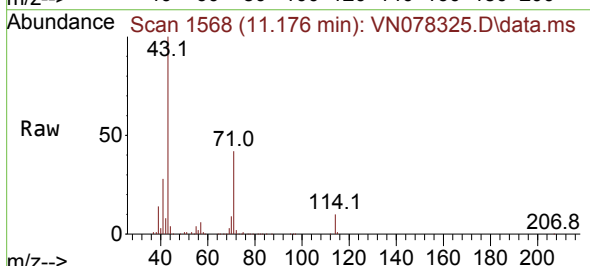
Acq: 21 Jun 2023 16:22

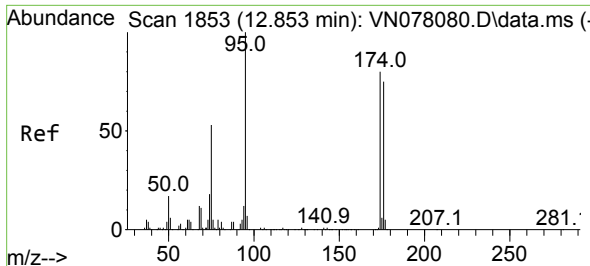
Tgt Ion: 43 Resp: 227859

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

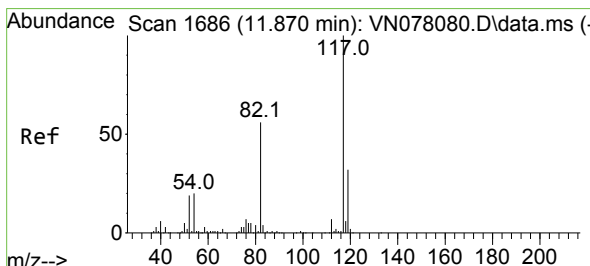
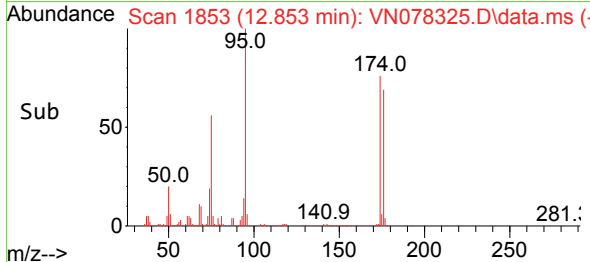
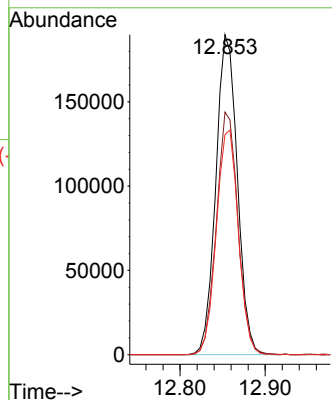
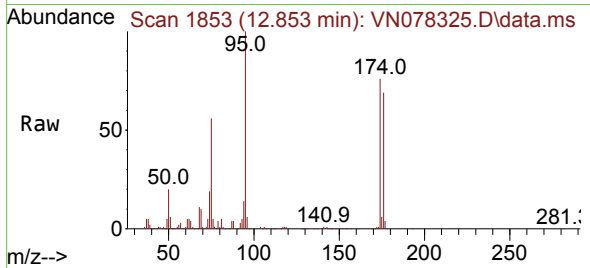




#62
4-Bromofluorobenzene
Concen: 51.006 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN078325.D
Acq: 21 Jun 2023 16:22

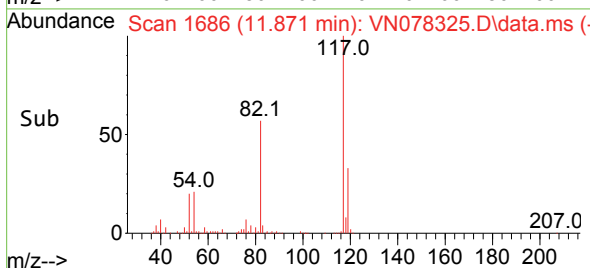
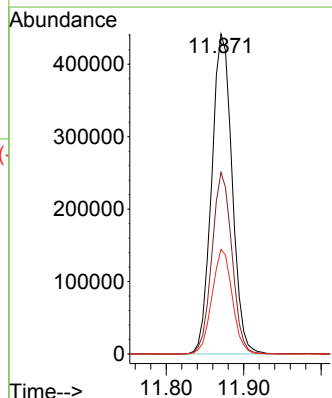
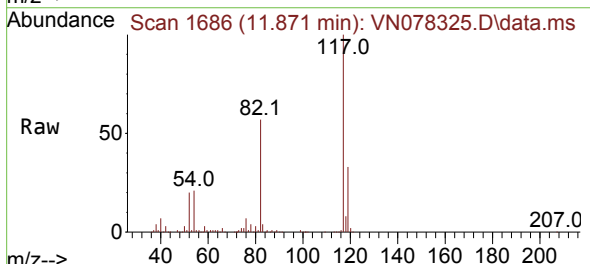
Instrument :
MSVOA_N
ClientSampleId :

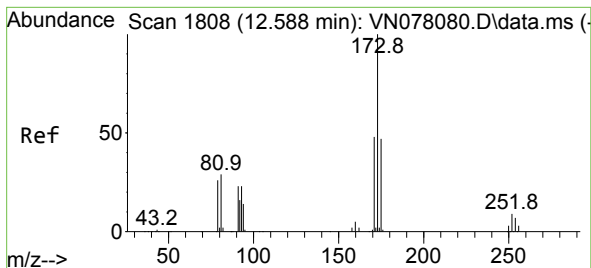
Tgt Ion: 95 Resp: 333787
Ion Ratio Lower Upper
95 100
174 76.0 0.0 143.8
176 71.8 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN078325.D
Acq: 21 Jun 2023 16:22

Tgt Ion: 117 Resp: 811200
Ion Ratio Lower Upper
117 100
82 56.7 44.0 66.0
119 32.7 25.6 38.4





#71

Bromoform

Concen: 0.640 ug/l

RT: 12.859 min Scan# 1854

Delta R.T. 0.271 min

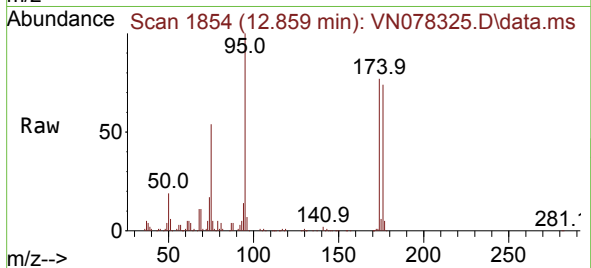
Lab File: VN078325.D

Acq: 21 Jun 2023 16:22

Instrument :

MSVOA_N

ClientSampleId :



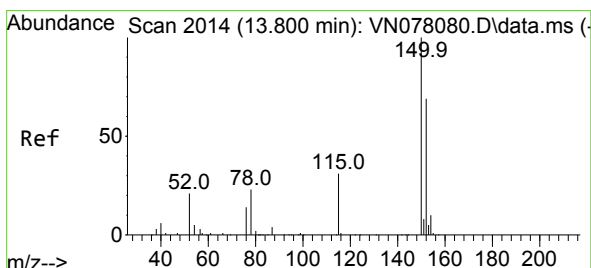
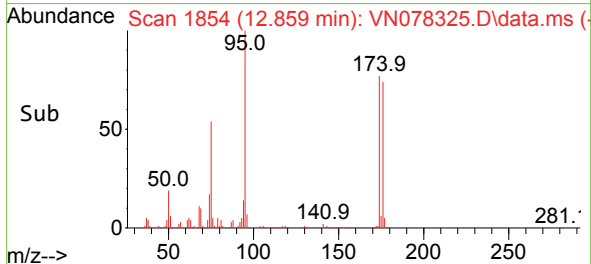
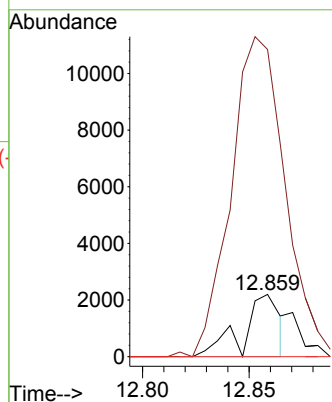
Tgt Ion:173 Resp: 2638

Ion Ratio Lower Upper

173 100

175 659.6 24.3 73.0#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. -0.006 min

Lab File: VN078325.D

Acq: 21 Jun 2023 16:22

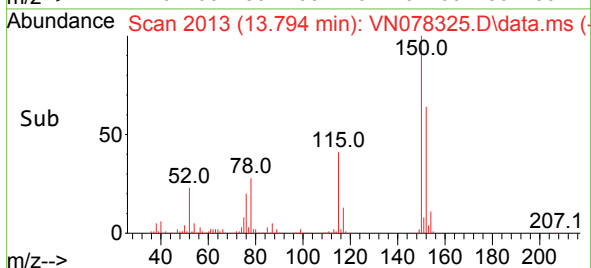
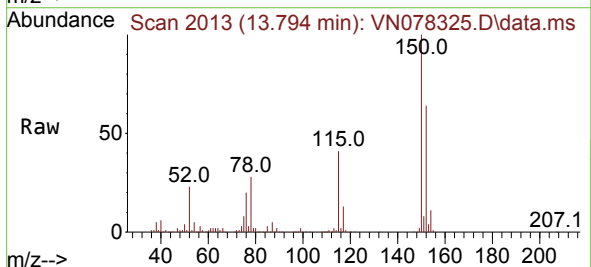
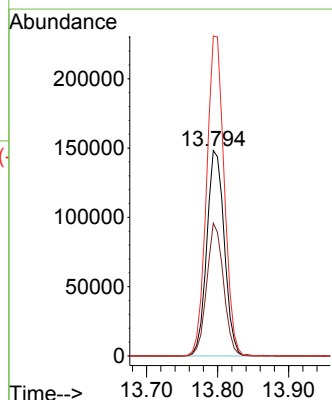
Tgt Ion:152 Resp: 254480

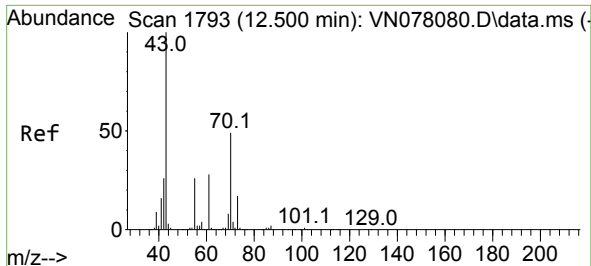
Ion Ratio Lower Upper

152 100

115 61.9 32.3 96.8

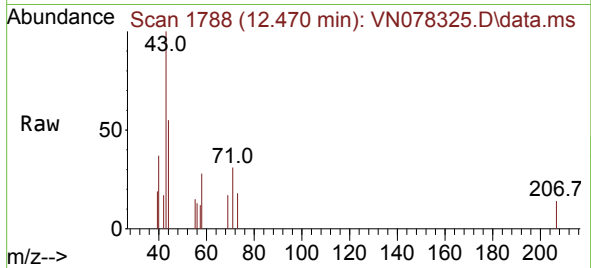
150 156.4 0.0 355.8



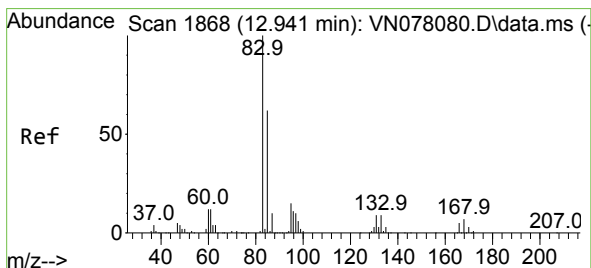
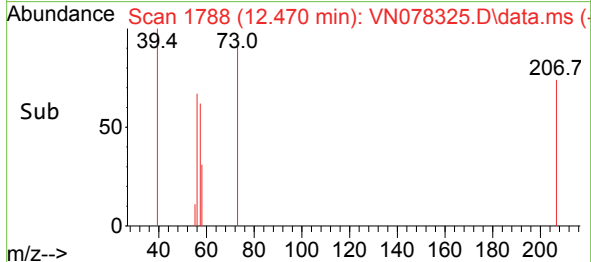
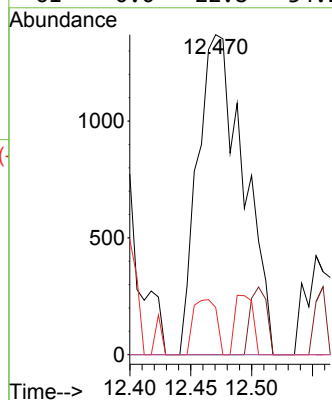


#74
N-amy1 acetate
Concen: 0.452 ug/l
RT: 12.470 min Scan# 1
Delta R.T. -0.029 min
Lab File: VN078325.D
Acq: 21 Jun 2023 16:22

Instrument :
MSVOA_N
ClientSampleId :

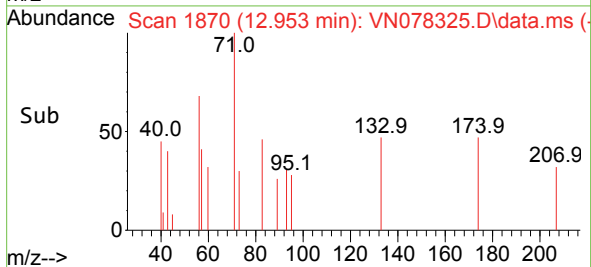
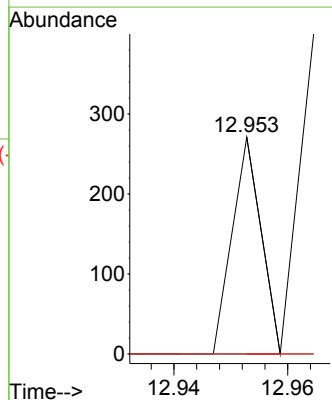
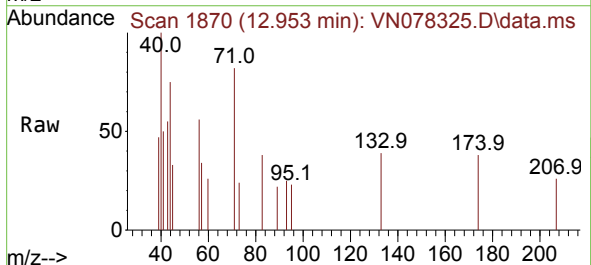


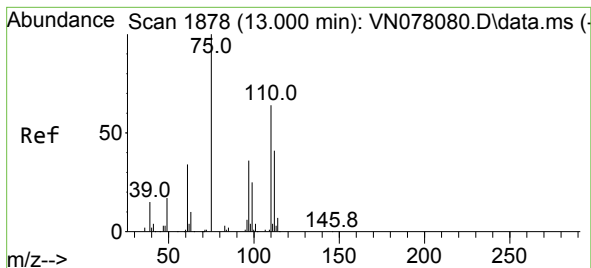
Tgt Ion: 43	Resp: 3581
Ion Ratio	Lower Upper
43 100	
70 0.0	43.4 65.2#
55 8.7	21.4 32.0#
61 0.0	22.8 34.2#



#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.953 min Scan# 1870
Delta R.T. 0.012 min
Lab File: VN078325.D
Acq: 21 Jun 2023 16:22

Tgt Ion: 83	Resp: 96
Ion Ratio	Lower Upper
83 100	
131 0.0	5.0 15.0#
85 0.0	31.9 95.7#





#76

1,2,3-Trichloropropane

Concen: 30.369 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078325.D

Acq: 21 Jun 2023 16:22

Instrument :

MSVOA_N

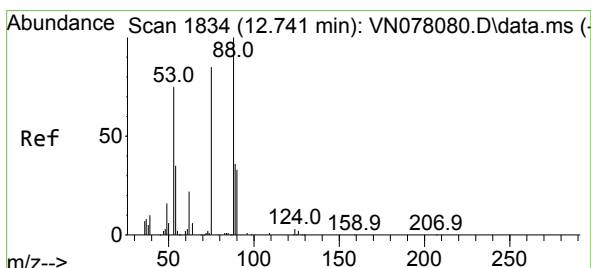
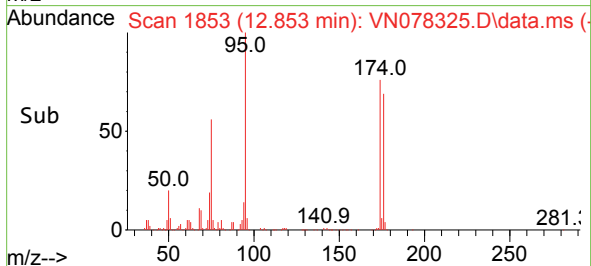
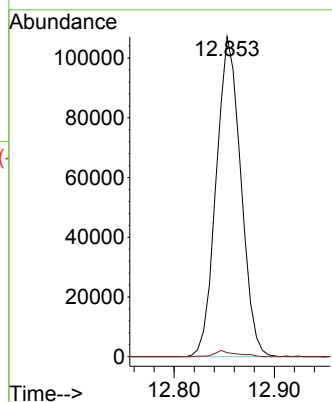
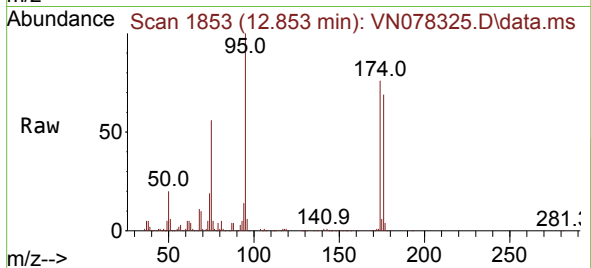
ClientSampleId :

Tgt Ion: 75 Resp: 182702

Ion Ratio Lower Upper

75 100

77 1.7 84.5 253.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 93.304 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN078325.D

Acq: 21 Jun 2023 16:22

Tgt Ion: 75 Resp: 182702

Ion Ratio Lower Upper

75 100

53 0.2 67.4 101.2#

89 0.0 38.8 58.2#

