

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081823\
 Data File : VN078945.D
 Acq On : 18 Aug 2023 16:23
 Operator : JC\MD
 Sample : PB154902ZHE#02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 18 23:44:03 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N081523W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 16 02:42:02 2023
 Response via : Initial Calibration

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

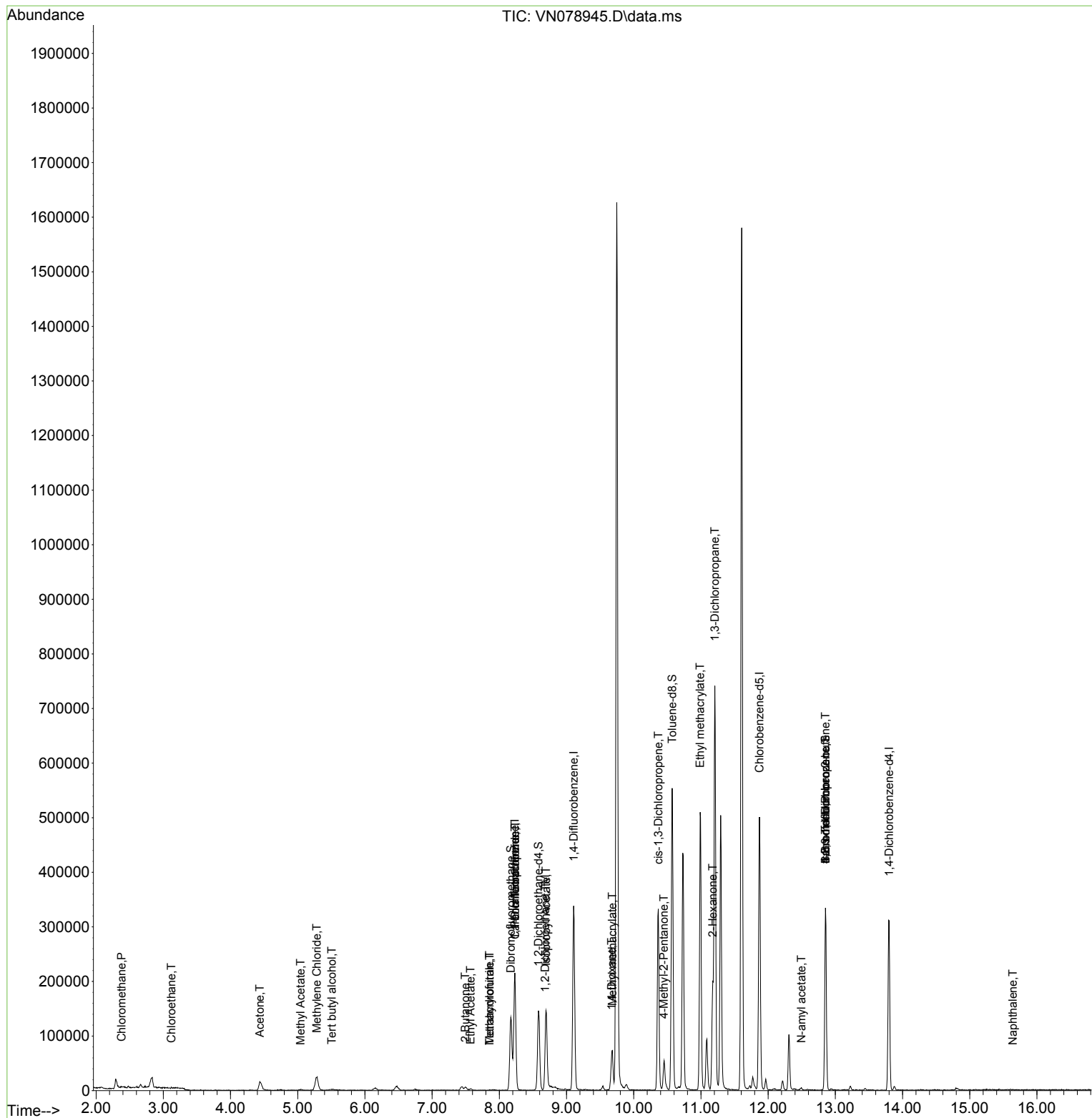
Internal Standards						
1) Pentafluorobenzene	8.230	168	151217	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	278716	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	275658	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	84117	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	117133	49.779	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.560%		
35) Dibromofluoromethane	8.171	113	94830	50.544	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	101.080%		
50) Toluene-d8	10.571	98	360983	51.818	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	103.640%		
62) 4-Bromofluorobenzene	12.853	95	107913	47.392	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	94.780%		
Target Compounds						Qvalue
3) Chloromethane	2.377	50	1232	0.421	ug/l #	56
6) Chloroethane	3.118	64	523	0.291	ug/l #	43
11) Tert butyl alcohol	5.506	59	800	2.026	ug/l #	72
16) Acetone	4.436	43	31279	32.216	ug/l #	84
18) Methyl Acetate	5.042	43	2501	0.610	ug/l #	54
20) Methylene Chloride	5.283	84	17527	8.471	ug/l	86
25) 2-Butanone	7.494	43	9372	6.021	ug/l #	67
29) Tetrahydrofuran	7.853	42	413	0.401	ug/l #	33
31) Cyclohexane	8.230	56	4383	Below Cal	#	51
36) 1,1-Dichloropropene	8.236	75	13195	4.675	ug/l #	49
37) Ethyl Acetate	7.571	43	3874	1.227	ug/l #	80
38) Carbon Tetrachloride	8.236	117	16290	5.761	ug/l #	16
41) Methacrylonitrile	7.853	41	409	0.238	ug/l #	21
42) 1,2-Dichloroethane	8.683	62	1047	0.336	ug/l #	73
43) Isopropyl Acetate	8.694	43	170714	30.587	ug/l #	79
48) Methyl methacrylate	9.683	41	5547	2.193	ug/l #	33
49) 1,4-Dioxane	9.671	88	57	1.323	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	41820	12.634	ug/l #	79
54) cis-1,3-Dichloropropene	10.365	75	55710	15.857	ug/l #	71
56) Ethyl methacrylate	10.988	69	2285	0.718	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	7300	1.987	ug/l #	42
59) 2-Hexanone	11.177	43	162927	67.955	ug/l #	19
71) Bromoform	12.853	173	468	0.290	ug/l #	1
74) N-amyl acetate	12.494	43	2551	0.721	ug/l #	38
76) 1,2,3-Trichloropropane	12.853	75	59180	29.199	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	59180	74.590	ug/l #	15
92) 1,2-Dibromo-3-Chloropr...	14.717	75	53	Below Cal	#	4
95) Naphthalene	15.641	128	797	2.770	ug/l #	70

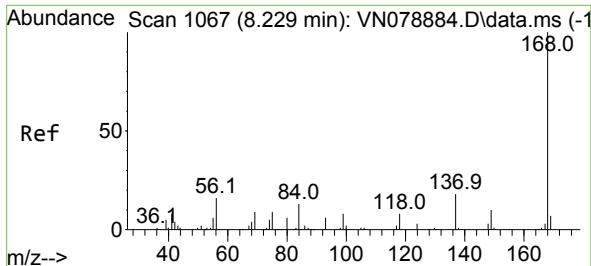
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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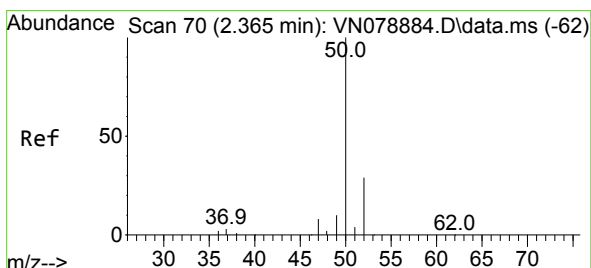
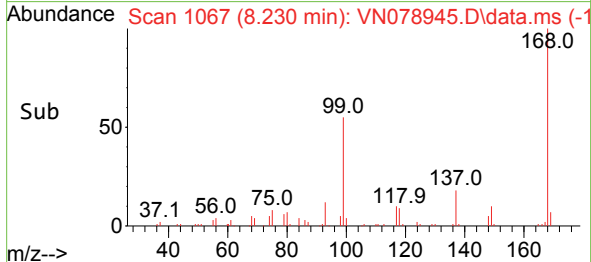
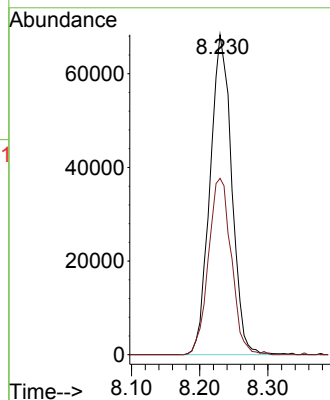
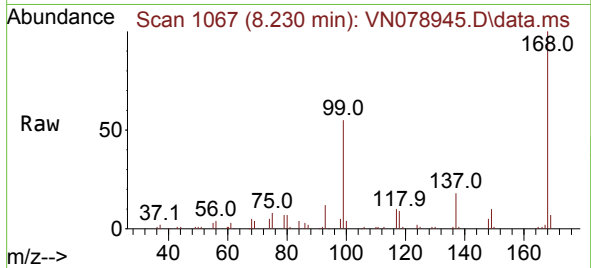




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN078945.D
Acq: 18 Aug 2023 16:23

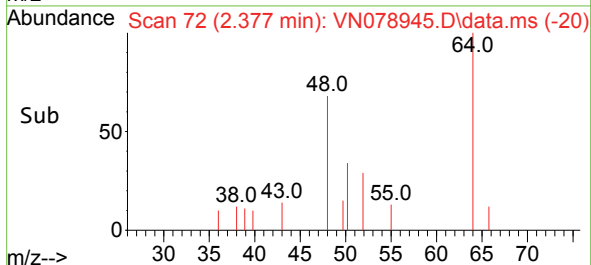
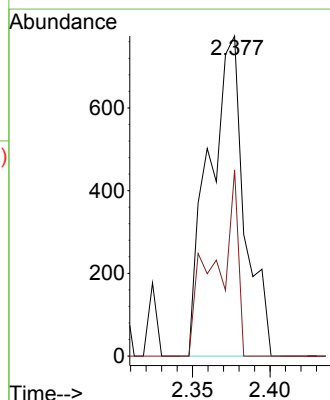
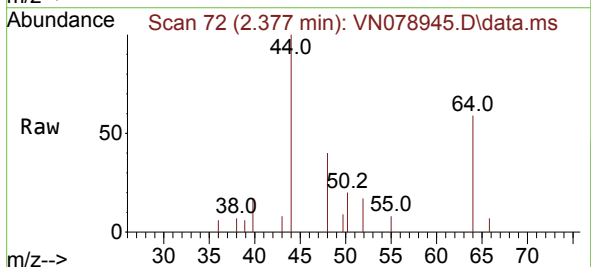
Instrument :
MSVOA_N
ClientSampleId :

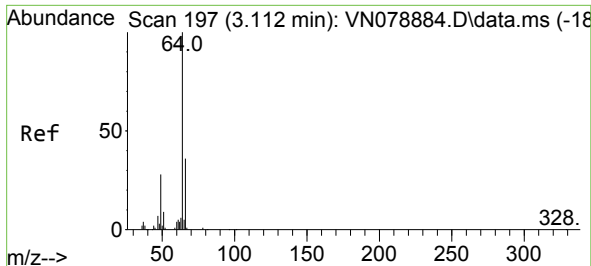
Tgt Ion:168 Resp: 151217
Ion Ratio Lower Upper
168 100
99 55.1 53.0 79.6



#3
Chloromethane
Concen: 0.421 ug/l
RT: 2.377 min Scan# 72
Delta R.T. 0.006 min
Lab File: VN078945.D
Acq: 18 Aug 2023 16:23

Tgt Ion: 50 Resp: 1232
Ion Ratio Lower Upper
50 100
52 58.1 26.5 39.7#

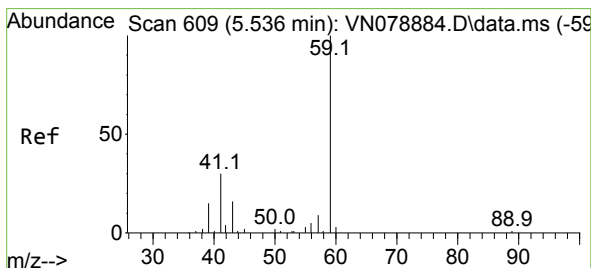
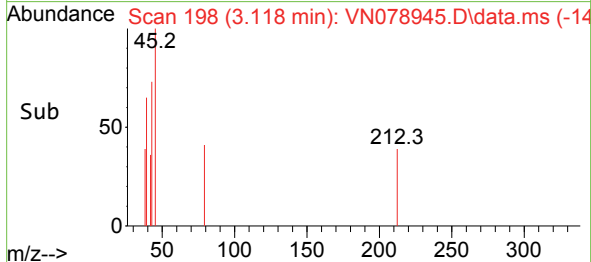
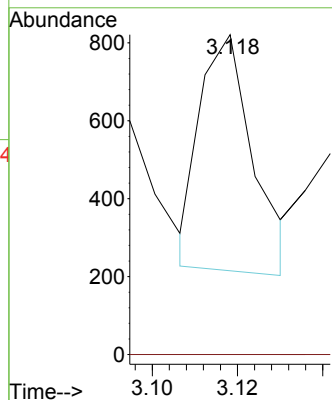
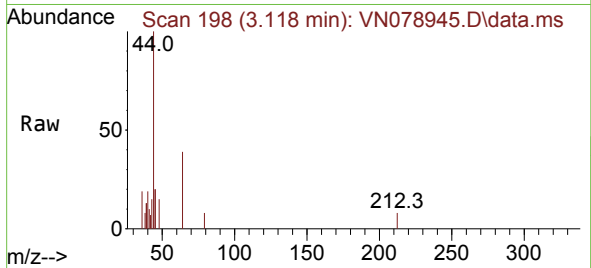




#6
Chloroethane
Concen: 0.291 ug/l
RT: 3.118 min Scan# 197
Delta R.T. 0.000 min
Lab File: VN078945.D
Acq: 18 Aug 2023 16:23

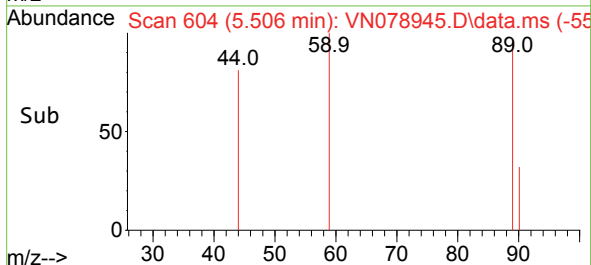
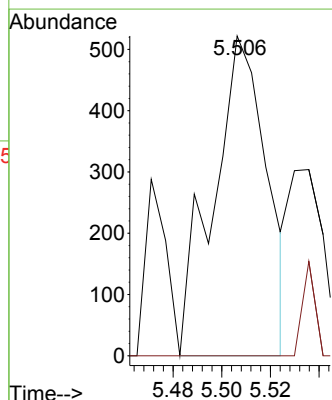
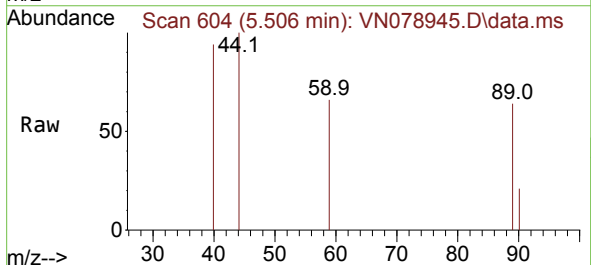
Instrument :
MSVOA_N
ClientSampleId :

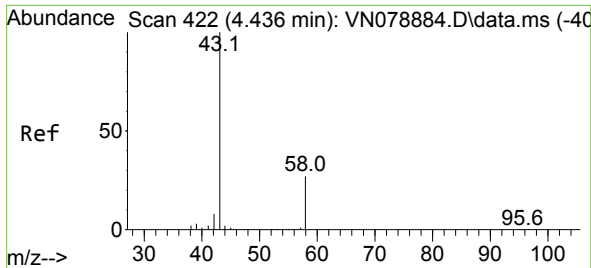
Tgt Ion: 64 Resp: 523
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#11
Tert butyl alcohol
Concen: 2.026 ug/l
RT: 5.506 min Scan# 604
Delta R.T. -0.036 min
Lab File: VN078945.D
Acq: 18 Aug 2023 16:23

Tgt Ion: 59 Resp: 800
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

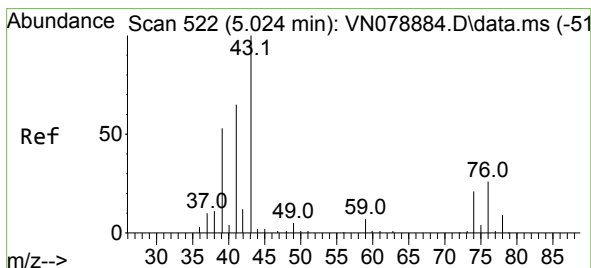
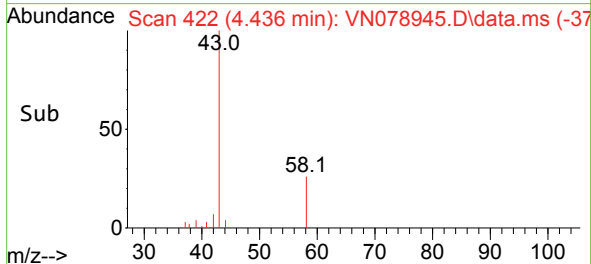
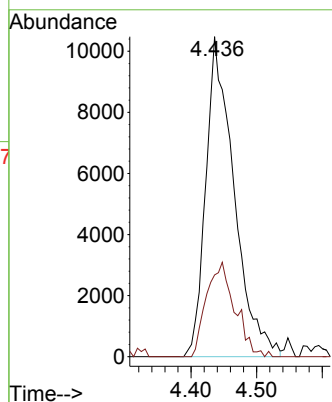
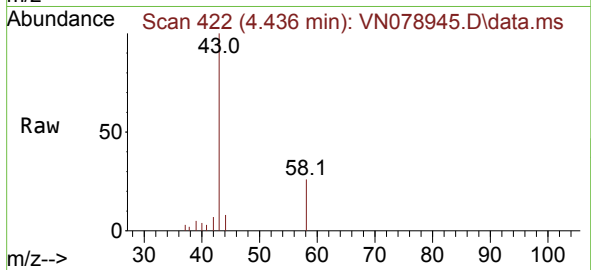




#16
Acetone
Concen: 32.216 ug/l
RT: 4.436 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN078945.D
Acq: 18 Aug 2023 16:23

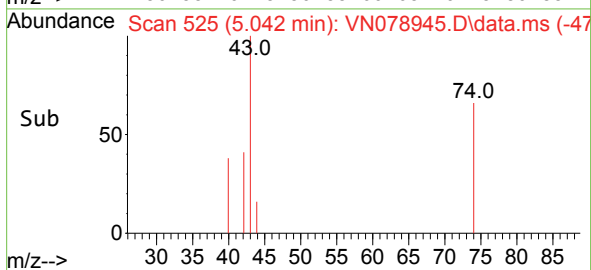
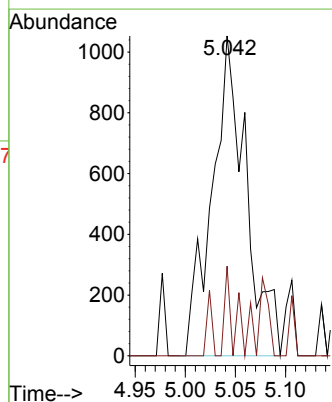
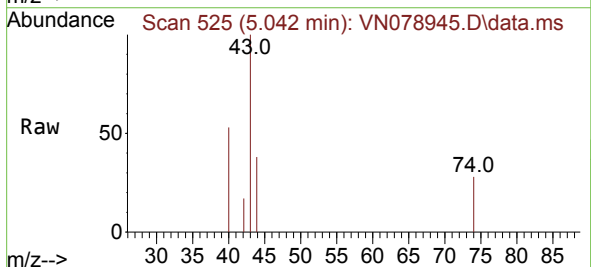
Instrument :
MSVOA_N
ClientSampleId :

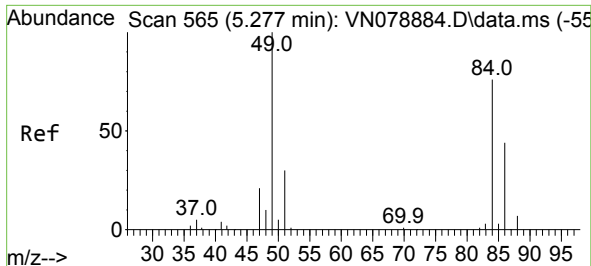
Tgt Ion: 43 Resp: 31279
Ion Ratio Lower Upper
43 100
58 25.5 28.0 42.0#



#18
Methyl Acetate
Concen: 0.610 ug/l
RT: 5.042 min Scan# 525
Delta R.T. -0.000 min
Lab File: VN078945.D
Acq: 18 Aug 2023 16:23

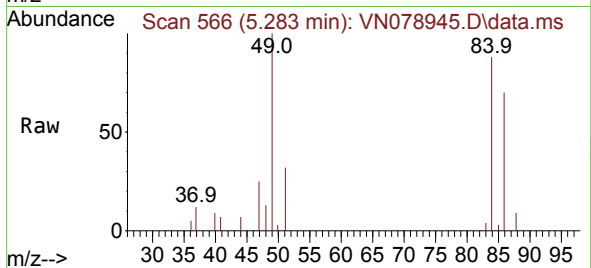
Tgt Ion: 43 Resp: 2501
Ion Ratio Lower Upper
43 100
74 7.1 26.2 39.4#



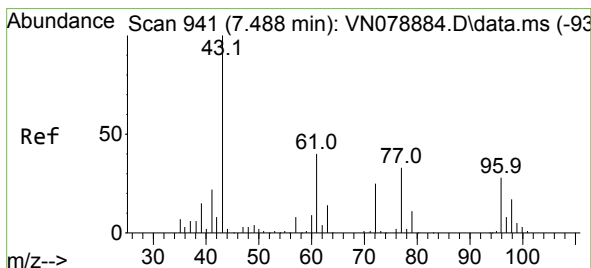
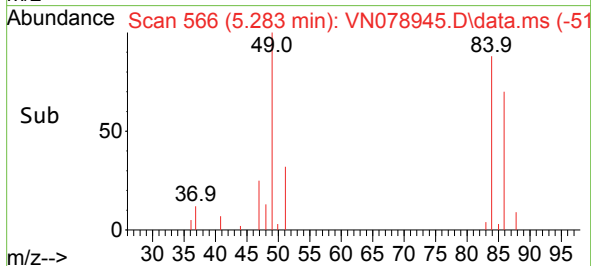
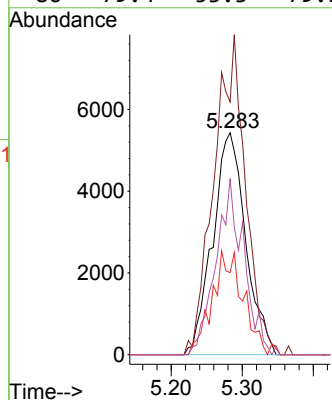


#20
Methylene Chloride
Concen: 8.471 ug/l
RT: 5.283 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN078945.D
Acq: 18 Aug 2023 16:23

Instrument :
MSVOA_N
ClientSampleId :

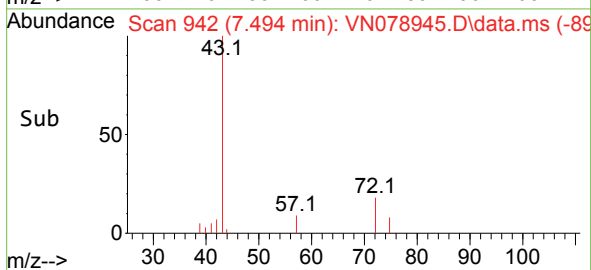
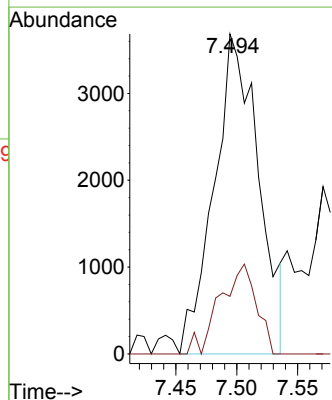
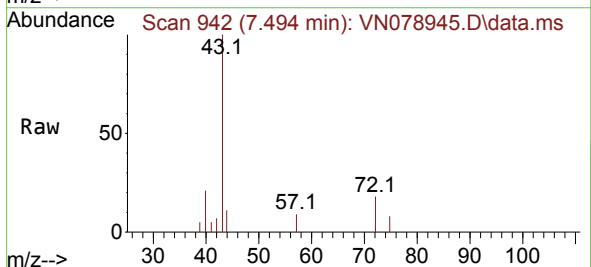


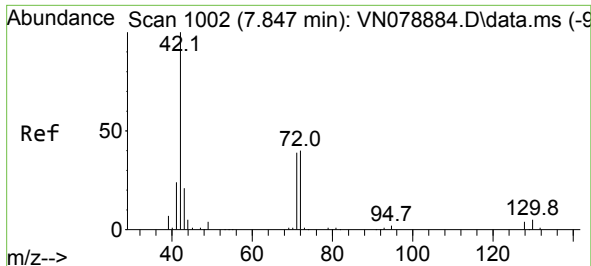
Tgt Ion:	84	Resp:	17527
Ion	Ratio	Lower	Upper
84	100		
49	113.9	79.7	119.5
51	37.0	25.2	37.8
86	79.4	53.3	79.9



#25
2-Butanone
Concen: 6.021 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.000 min
Lab File: VN078945.D
Acq: 18 Aug 2023 16:23

Tgt Ion:	43	Resp:	9372
Ion	Ratio	Lower	Upper
43	100		
72	18.0	30.2	45.2#





#29

Tetrahydrofuran

Concen: 0.401 ug/l

RT: 7.853 min Scan# 10

Delta R.T. 0.006 min

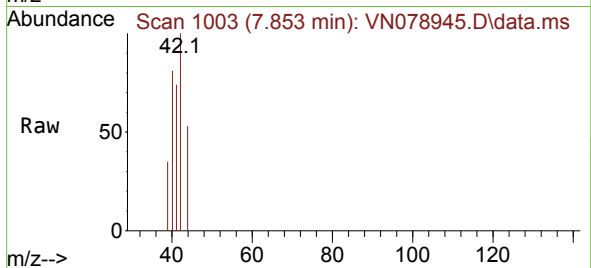
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Acq: 18 Aug 2023 16:23

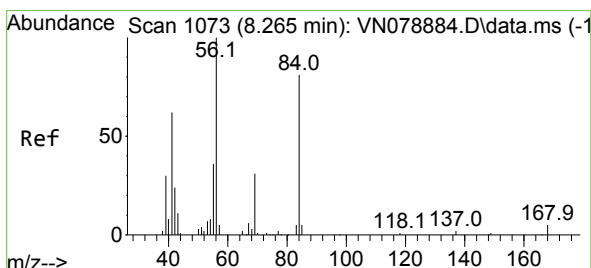
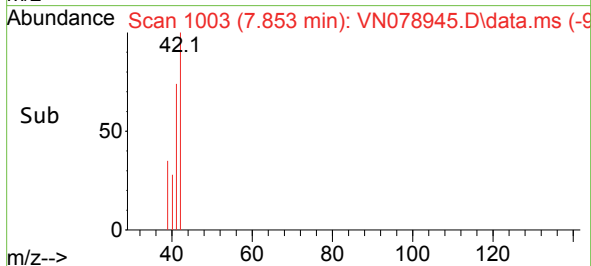
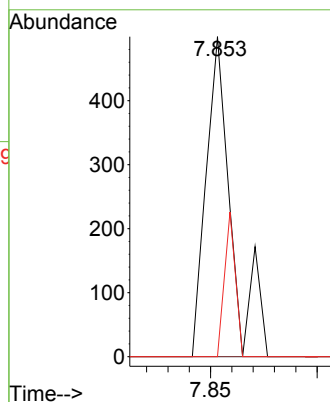
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	413
Ion	Ratio	Lower	Upper
42	100		
72	0.0	49.8	74.6#
71	19.4	47.4	71.2#



#31

Cyclohexane

Concen: Below Cal

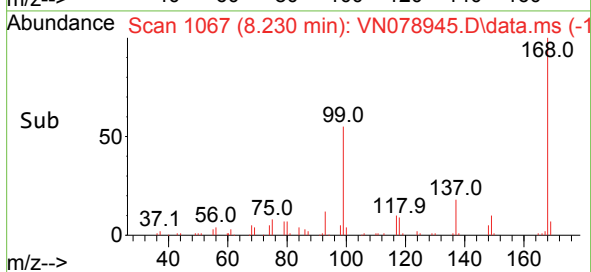
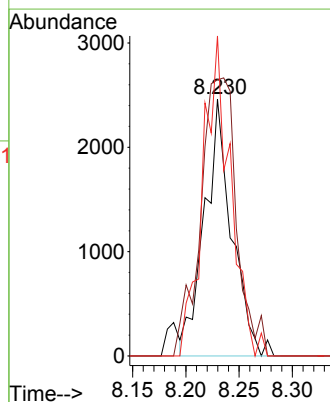
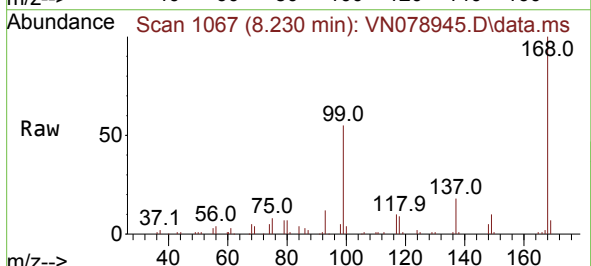
RT: 8.230 min Scan# 1067

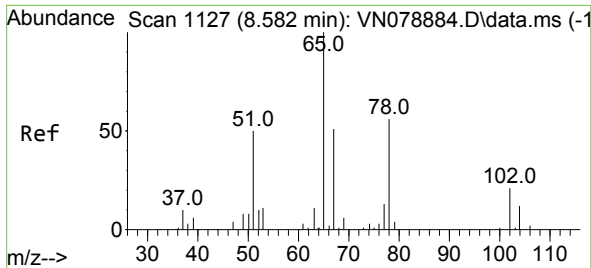
Delta R.T. -0.035 min

Lab File: VN078945.D

Acq: 18 Aug 2023 16:23

Tgt Ion:	56	Resp:	4383
Ion	Ratio	Lower	Upper
56	100		
69	107.6	26.8	40.2#
84	124.6	81.8	122.6#





#33

1,2-Dichloroethane-d4

Concen: 49.779 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VN078945.D

Acq: 18 Aug 2023 16:23

Instrument :

MSVOA_N

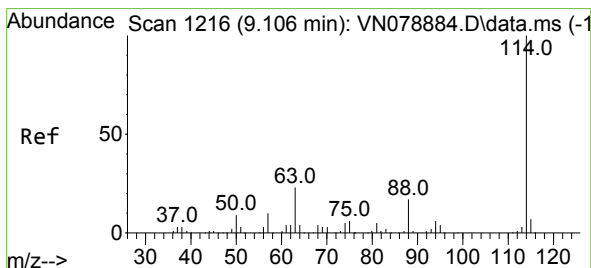
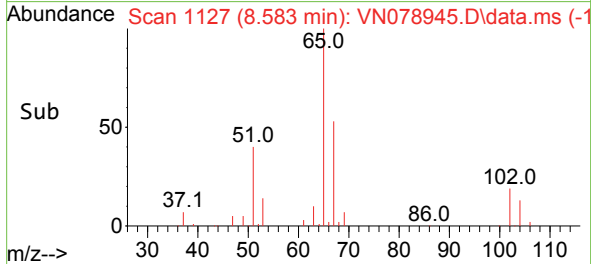
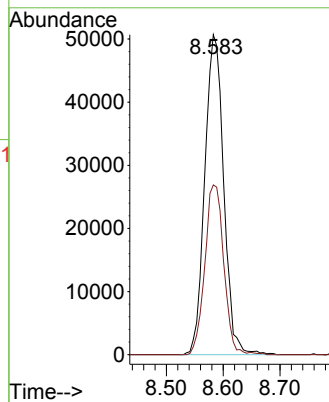
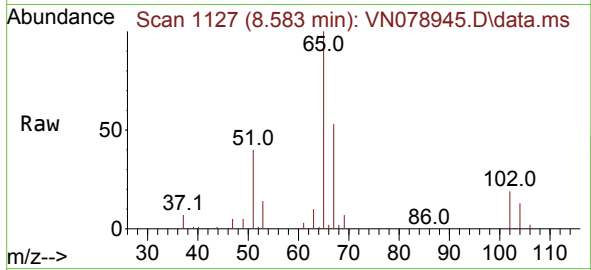
ClientSampleId :

Tgt Ion: 65 Resp: 117133

Ion Ratio Lower Upper

65 100

67 53.1 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.006 min

Lab File: VN078945.D

Acq: 18 Aug 2023 16:23

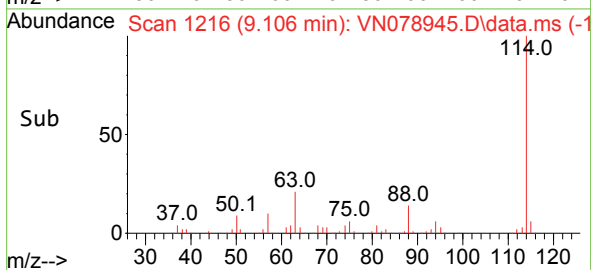
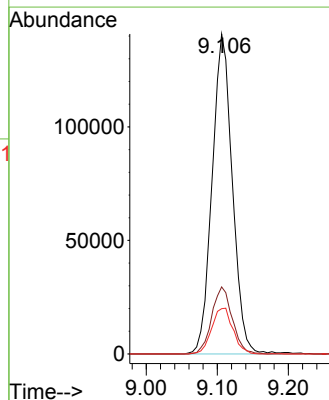
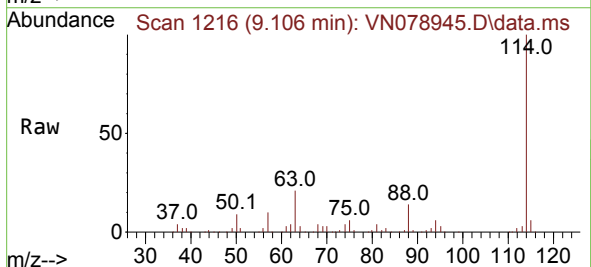
Tgt Ion: 114 Resp: 278716

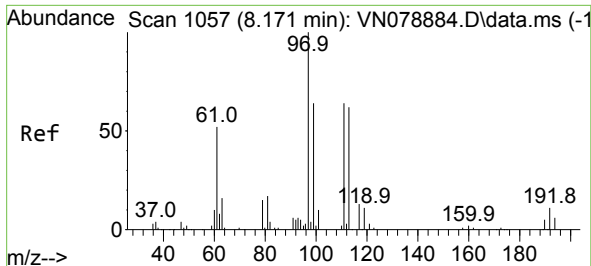
Ion Ratio Lower Upper

114 100

63 21.0 0.0 36.4

88 14.2 0.0 30.6





#35

Dibromofluoromethane

Concen: 50.544 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

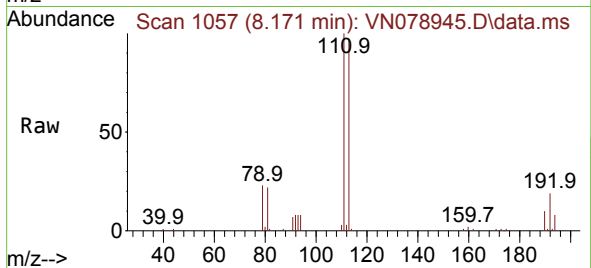
Lab File: VN078945.D

Acq: 18 Aug 2023 16:23

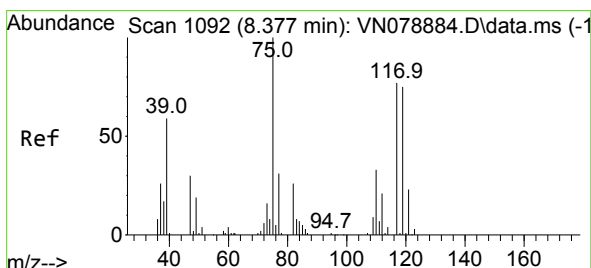
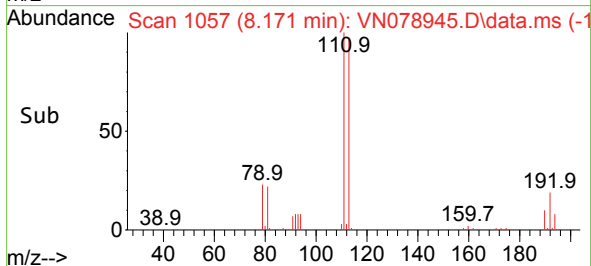
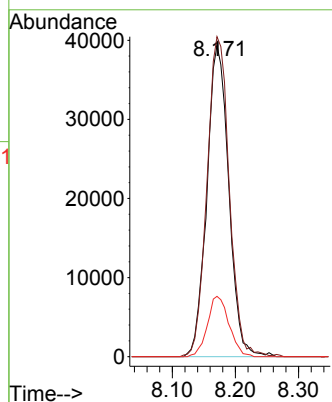
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	113	Resp:	94830
Ion	Ratio	Lower	Upper
113	100		
111	104.5	82.6	123.8
192	19.1	12.7	19.1#



#36

1,1-Dichloropropene

Concen: 4.675 ug/l

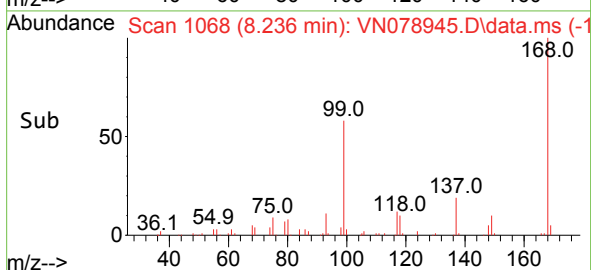
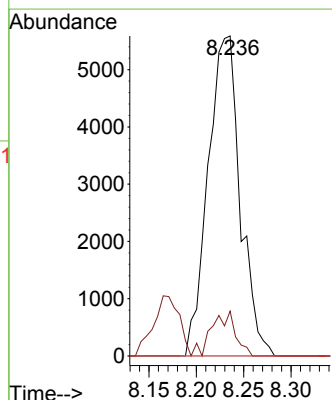
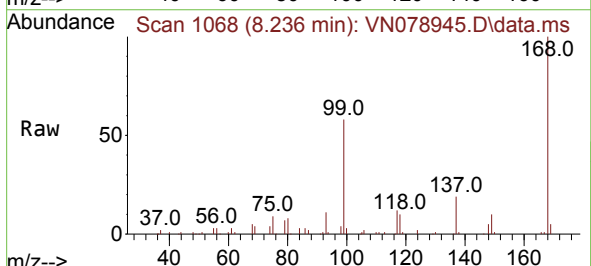
RT: 8.236 min Scan# 1068

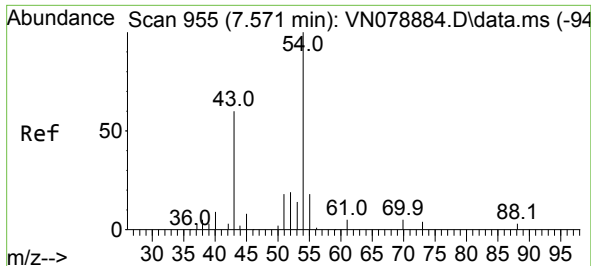
Delta R.T. -0.141 min

Lab File: VN078945.D

Acq: 18 Aug 2023 16:23

Tgt Ion:	75	Resp:	13195
Ion	Ratio	Lower	Upper
75	100		
110	10.4	19.1	57.3#
77	0.0	25.0	37.4#





#37

Ethyl Acetate

Concen: 1.227 ug/l

RT: 7.571 min Scan# 91

Delta R.T. -0.000 min

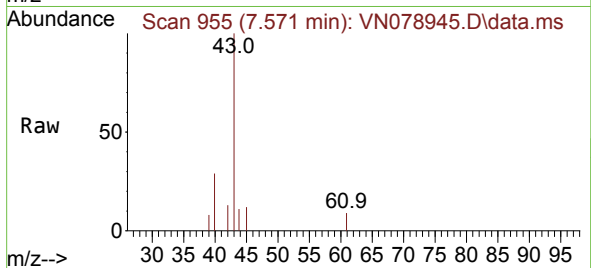
Lab File: VN078945.D

Acq: 18 Aug 2023 16:23

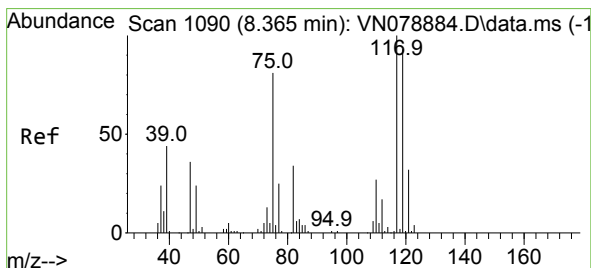
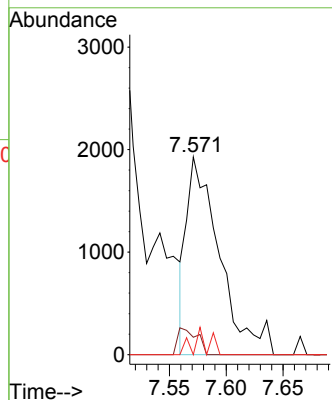
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	43	Resp:	3874
Ion	Ratio	Lower	Upper
43	100		
61	7.9	13.2	19.8#
70	5.9	11.3	16.9#



#38

Carbon Tetrachloride

Concen: 5.761 ug/l

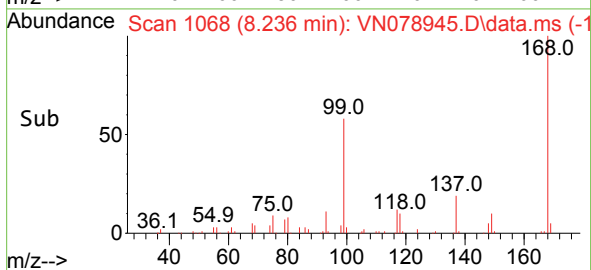
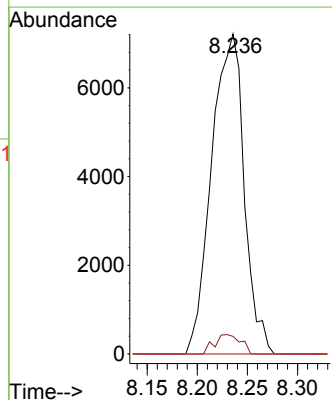
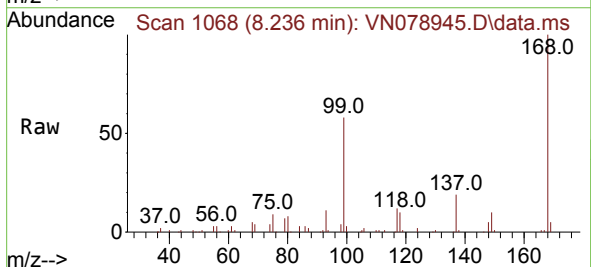
RT: 8.236 min Scan# 1068

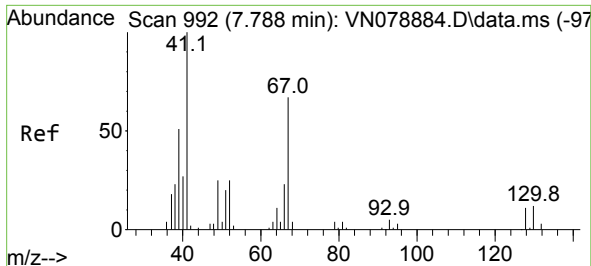
Delta R.T. -0.135 min

Lab File: VN078945.D

Acq: 18 Aug 2023 16:23

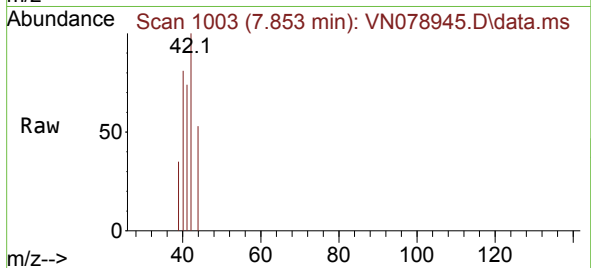
Tgt Ion:	117	Resp:	16290
Ion	Ratio	Lower	Upper
117	100		
119	5.5	77.3	115.9#
121	0.0	23.3	34.9#



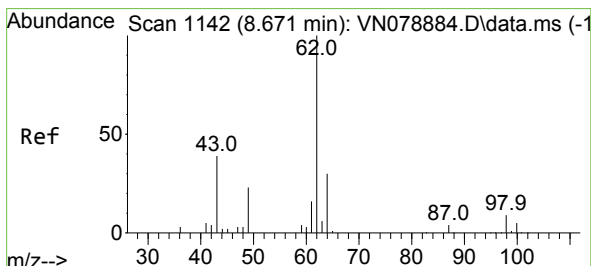
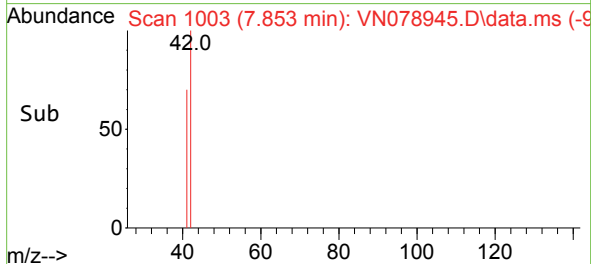
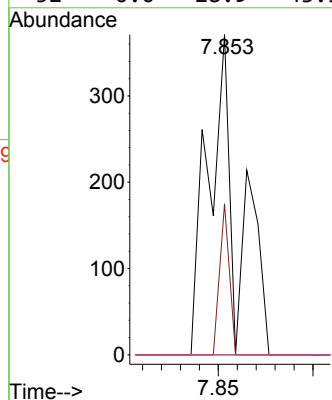


#41
Methacrylonitrile
Concen: 0.238 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.059 min
Lab File: VN078945.D
Acq: 18 Aug 2023 16:23

Instrument :
MSVOA_N
ClientSampleId :

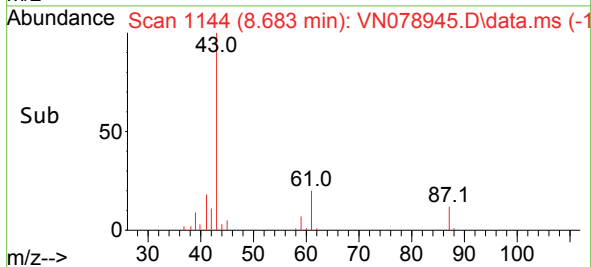
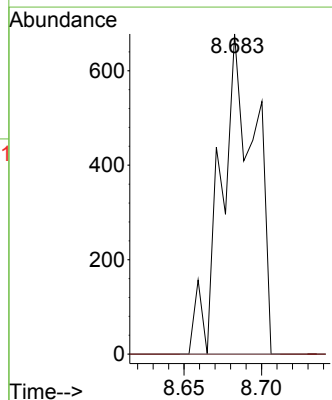
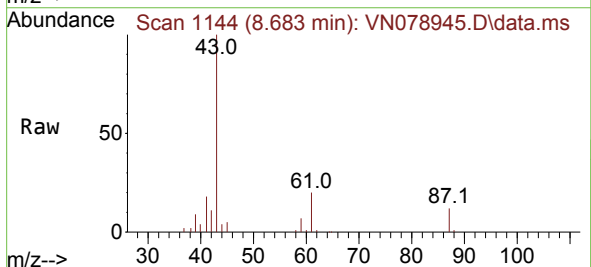


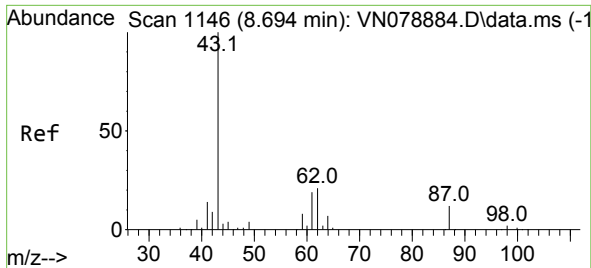
Tgt Ion: 41	Resp: 409
Ion Ratio	Lower Upper
41 100	
39 15.2	42.6 64.0#
67 0.0	77.5 116.3#
52 0.0	28.9 43.3#



#42
1,2-Dichloroethane
Concen: 0.336 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. 0.006 min
Lab File: VN078945.D
Acq: 18 Aug 2023 16:23

Tgt Ion: 62	Resp: 1047		
Ion Ratio	Lower	Upper	
62 100			
98 0.0	0.0	19.8	

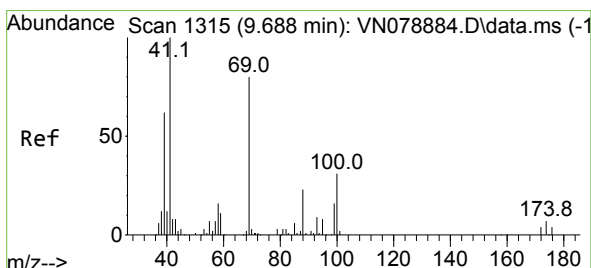
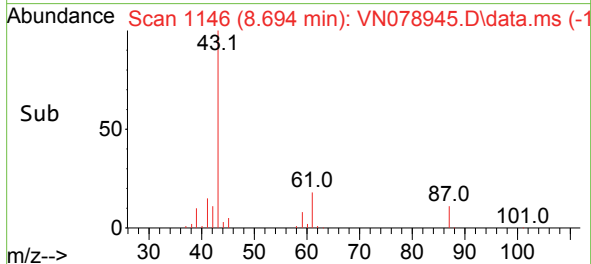
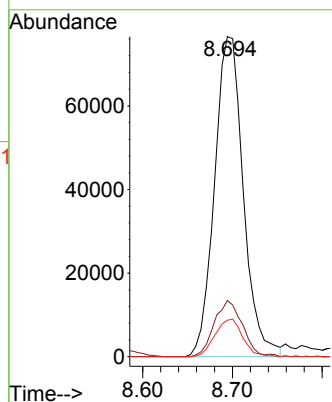
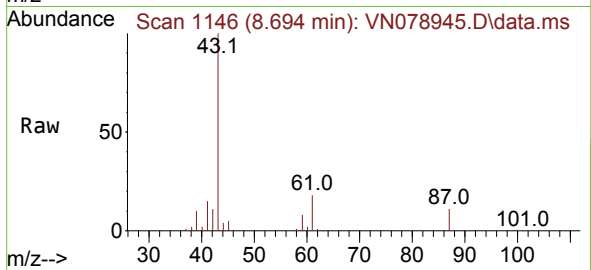




#43
Isopropyl Acetate
Concen: 30.587 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN078945.D
Acq: 18 Aug 2023 16:23

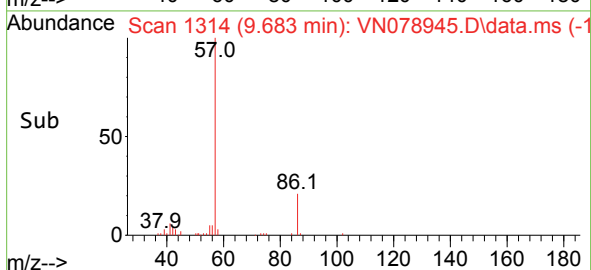
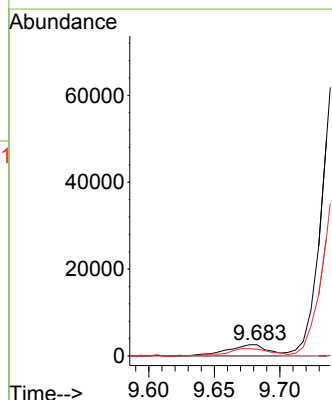
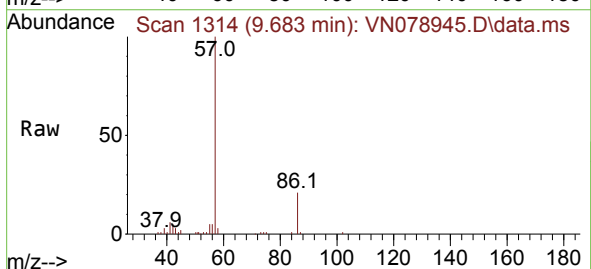
Instrument :
MSVOA_N
ClientSampleId :

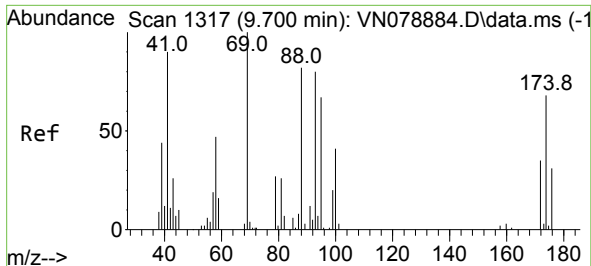
Tgt Ion: 43 Resp: 170714
Ion Ratio Lower Upper
43 100
61 17.3 24.7 37.1#
87 11.3 14.6 21.8#



#48
Methyl methacrylate
Concen: 2.193 ug/l
RT: 9.683 min Scan# 1314
Delta R.T. -0.005 min
Lab File: VN078945.D
Acq: 18 Aug 2023 16:23

Tgt Ion: 41 Resp: 5547
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 70.4 54.6 81.8





#49

1,4-Dioxane

Concen: 1.323 ug/l

RT: 9.671 min Scan# 1

Delta R.T. -0.029 min

Lab File: VN078945.D

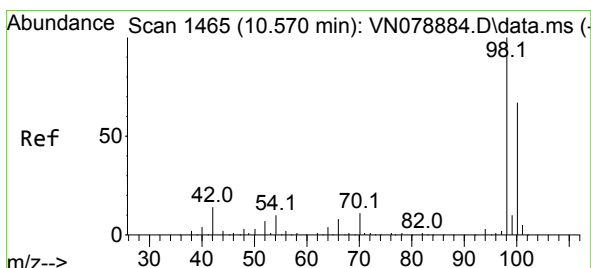
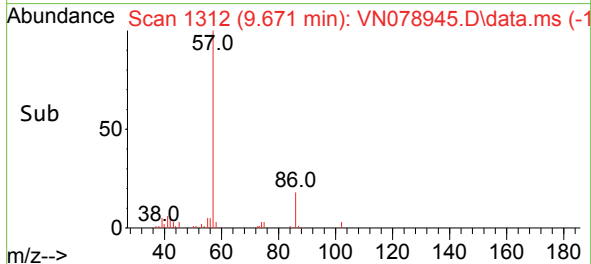
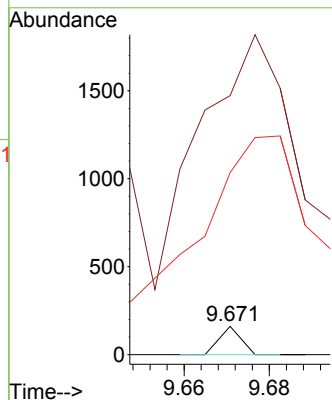
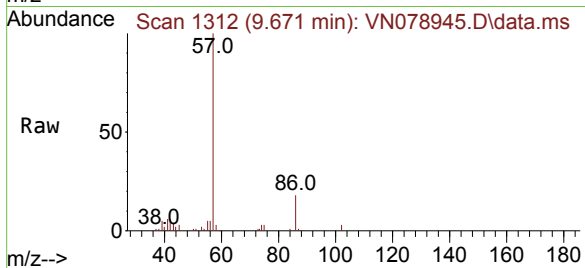
Acq: 18 Aug 2023 16:23

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion: 88 Resp: 57
 Ion Ratio Lower Upper
 88 100
 43 0.0 17.0 25.6#
 58 4443.9 47.0 70.4#



#50

Toluene-d8

Concen: 51.818 ug/l

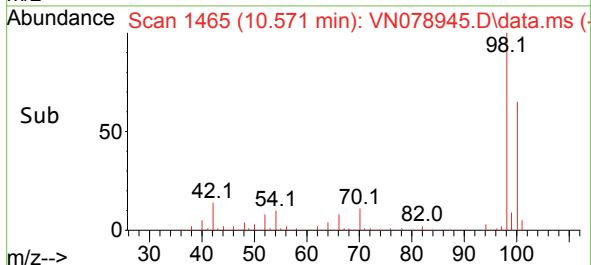
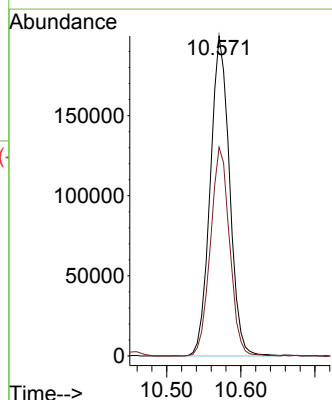
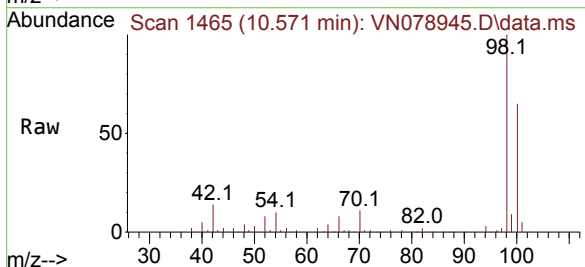
RT: 10.571 min Scan# 1465

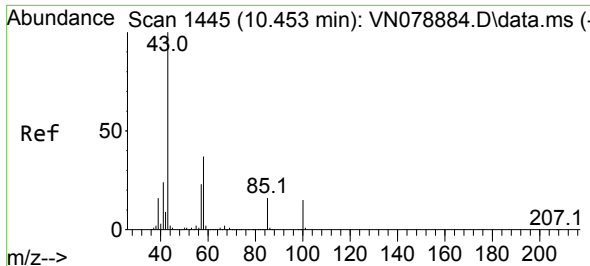
Delta R.T. -0.000 min

Lab File: VN078945.D

Acq: 18 Aug 2023 16:23

Tgt Ion: 98 Resp: 360983
 Ion Ratio Lower Upper
 98 100
 100 64.7 52.0 78.0

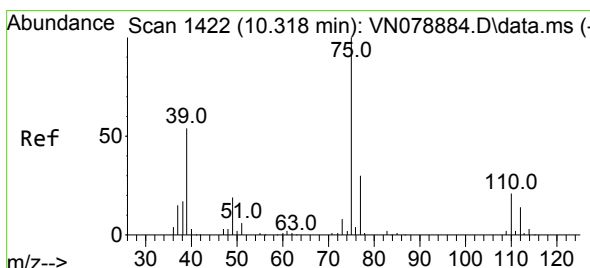
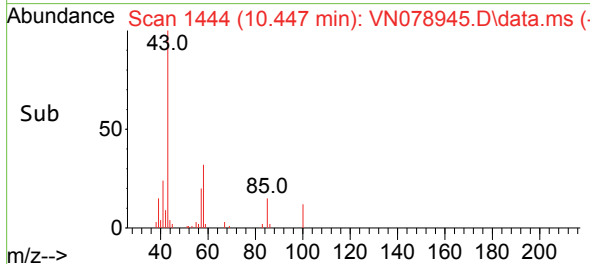
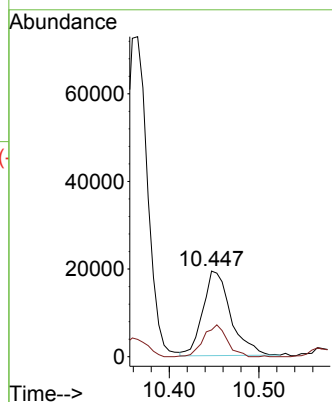
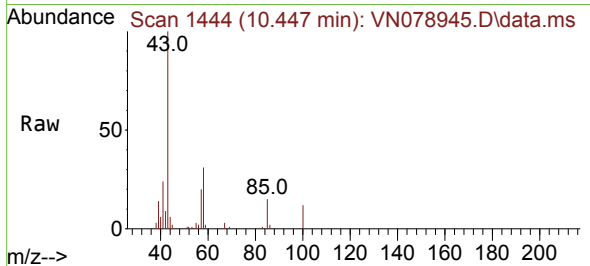




#51
4-Methyl-2-Pentanone
Concen: 12.634 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.006 min
Lab File: VN078945.D
Acq: 18 Aug 2023 16:23

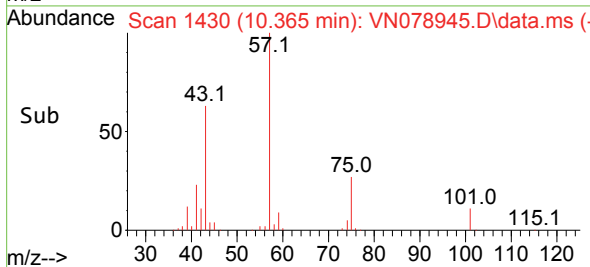
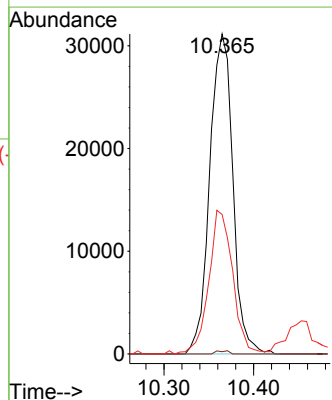
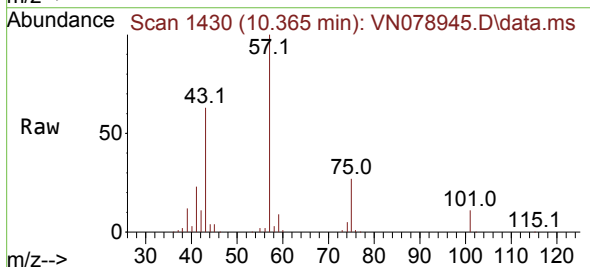
Instrument :
MSVOA_N
ClientSampleId :

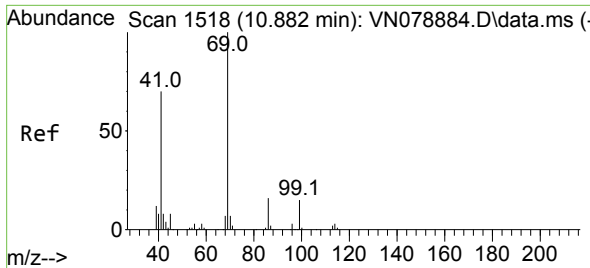
Tgt Ion: 43 Resp: 41820
Ion Ratio Lower Upper
43 100
58 31.7 36.6 54.8#



#54
cis-1,3-Dichloropropene
Concen: 15.857 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. 0.047 min
Lab File: VN078945.D
Acq: 18 Aug 2023 16:23

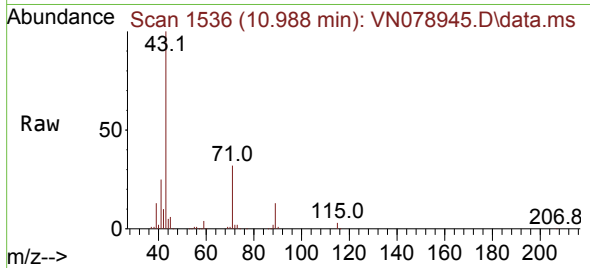
Tgt Ion: 75 Resp: 55710
Ion Ratio Lower Upper
75 100
77 0.7 26.1 39.1#
39 43.0 31.6 47.4



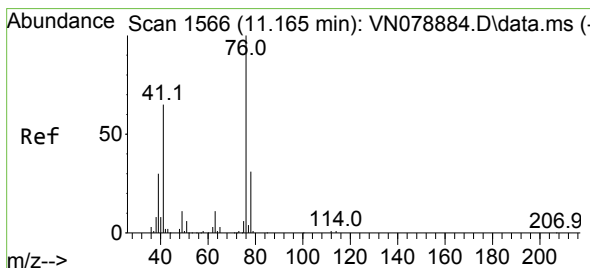
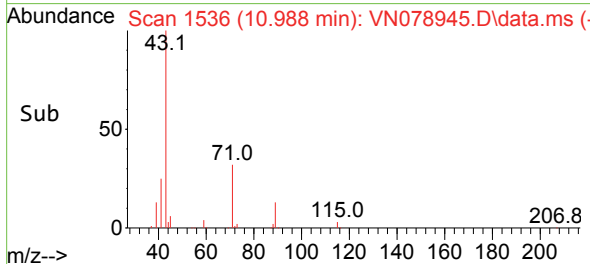
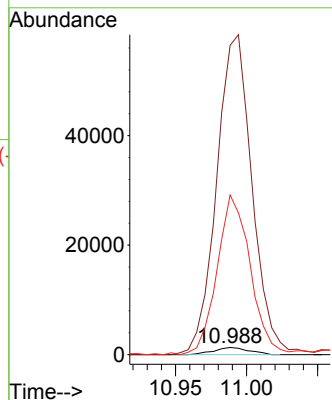


#56
Ethyl methacrylate
Concen: 0.718 ug/l
RT: 10.988 min Scan# 1536
Delta R.T. 0.111 min
Lab File: VN078945.D
Acq: 18 Aug 2023 16:23

Instrument :
MSVOA_N
ClientSampleId :

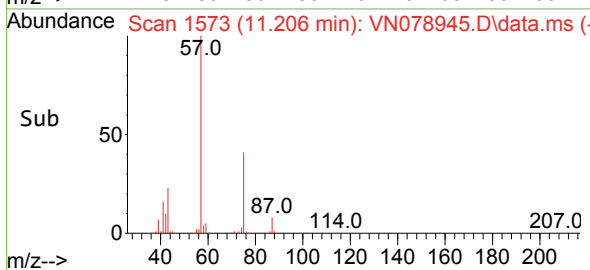
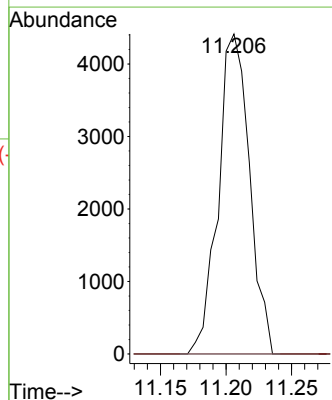
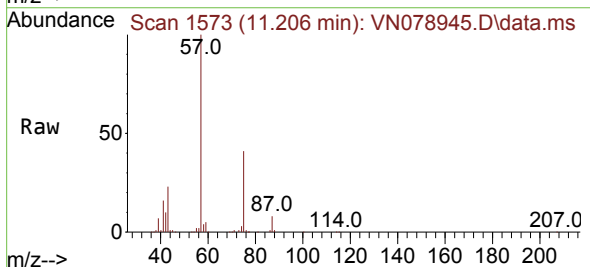


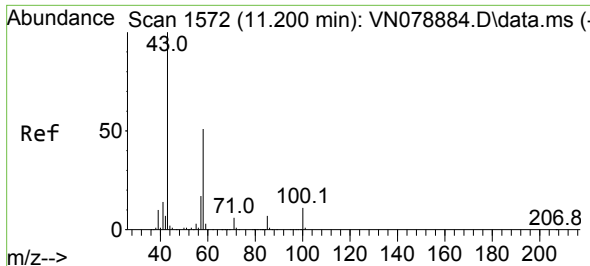
Tgt Ion: 69 Resp: 2285
Ion Ratio Lower Upper
69 100
41 4457.0 39.6 59.4#
39 2104.3 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 1.987 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.041 min
Lab File: VN078945.D
Acq: 18 Aug 2023 16:23

Tgt Ion: 76 Resp: 7300
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

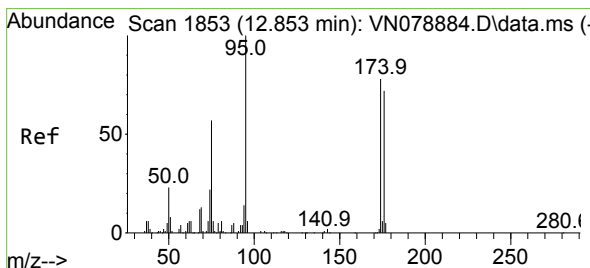
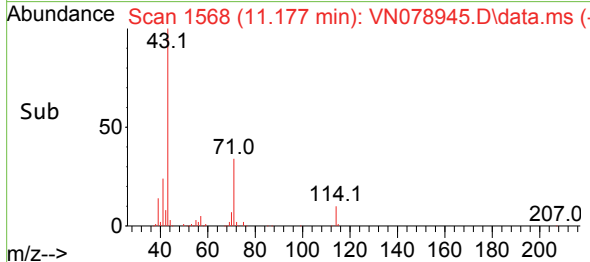
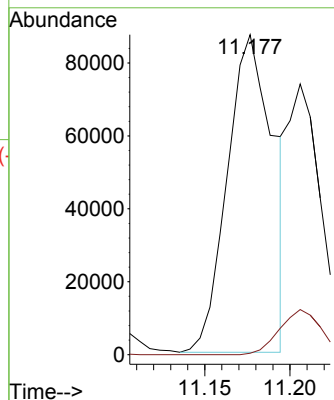
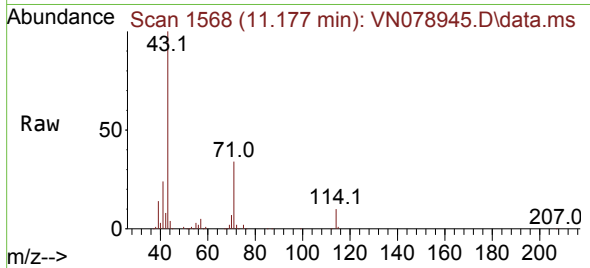




#59
2-Hexanone
Concen: 67.955 ug/l
RT: 11.177 min Scan# 1568
Delta R.T. -0.023 min
Lab File: VN078945.D
Acq: 18 Aug 2023 16:23

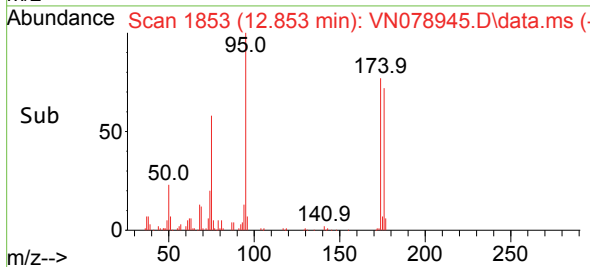
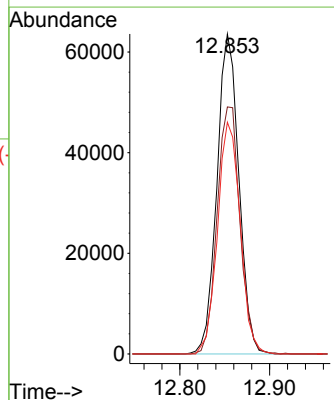
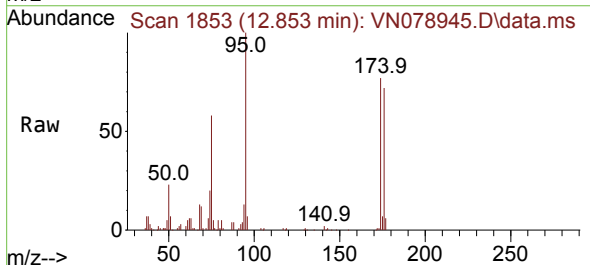
Instrument :
MSVOA_N
ClientSampleId :

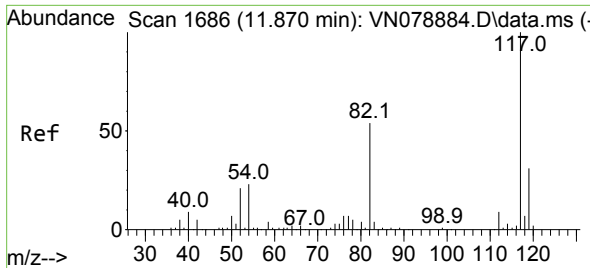
Tgt Ion: 43 Resp: 162927
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 47.392 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078945.D
Acq: 18 Aug 2023 16:23

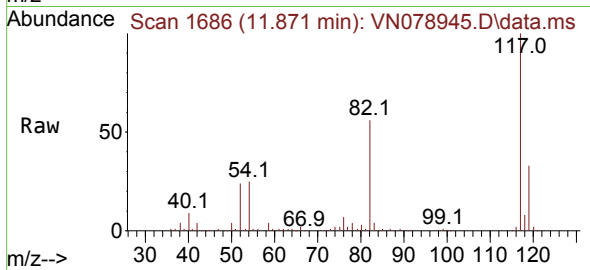
Tgt Ion: 95 Resp: 107913
Ion Ratio Lower Upper
95 100
174 80.6 0.0 143.8
176 74.8 0.0 135.8



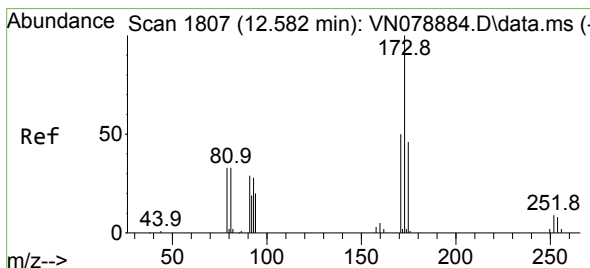
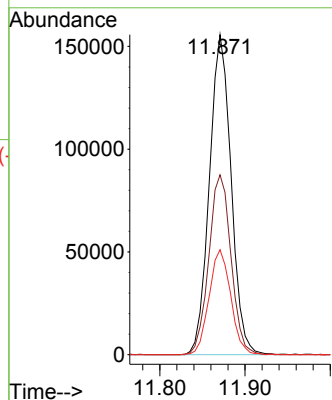
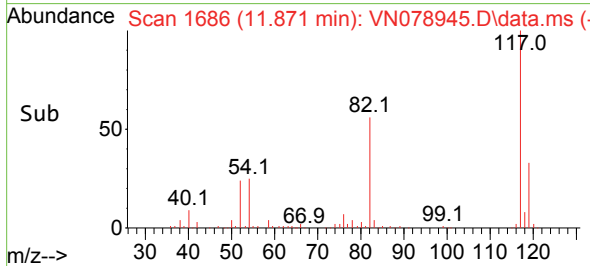


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN078945.D
Acq: 18 Aug 2023 16:23

Instrument :
MSVOA_N
ClientSampleId :

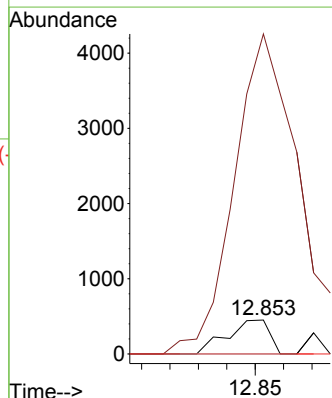
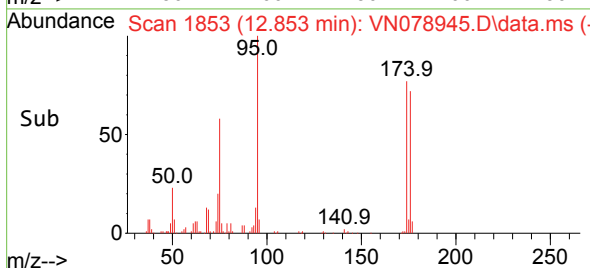
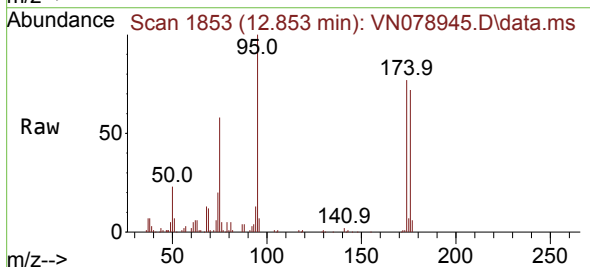


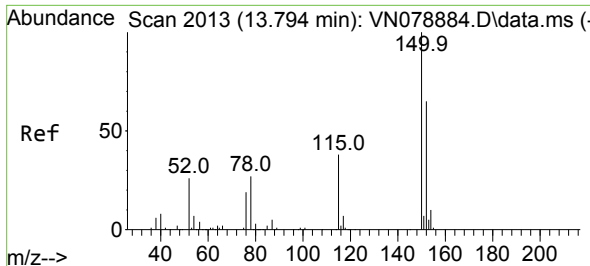
Tgt Ion:117 Resp: 275658
Ion Ratio Lower Upper
117 100
82 56.2 44.0 66.0
119 32.8 25.6 38.4



#71
Bromoform
Concen: 0.290 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.271 min
Lab File: VN078945.D
Acq: 18 Aug 2023 16:23

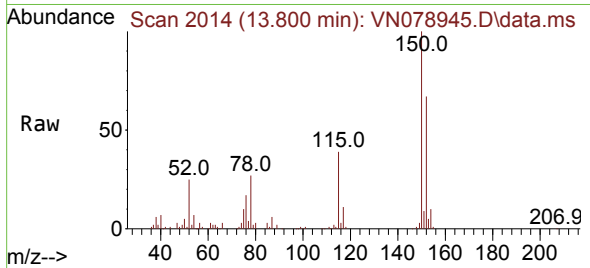
Tgt Ion:173 Resp: 468
Ion Ratio Lower Upper
173 100
175 1067.5 24.3 73.0#
254 0.0 0.0 0.0



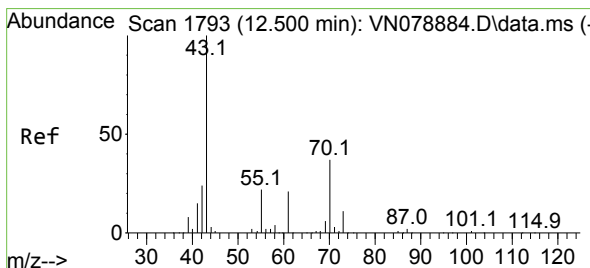
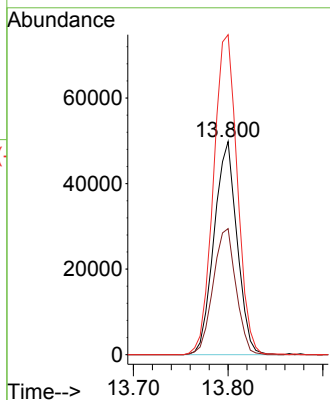
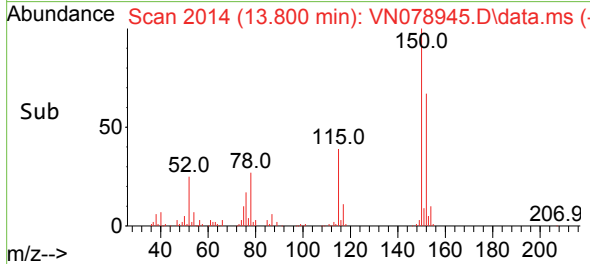


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.800 min Scan# 20
 Delta R.T. 0.006 min
 Lab File: VN078945.D
 Acq: 18 Aug 2023 16:23

Instrument :
 MSVOA_N
 ClientSampleId :

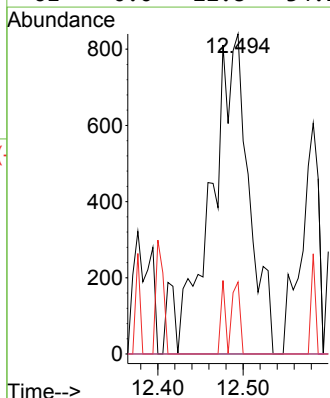
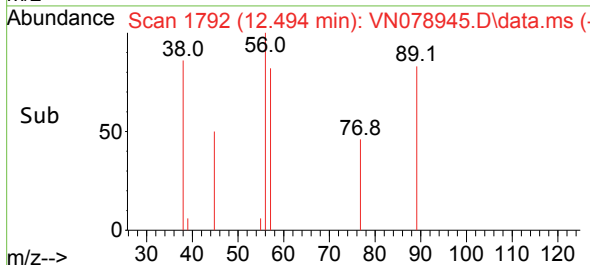
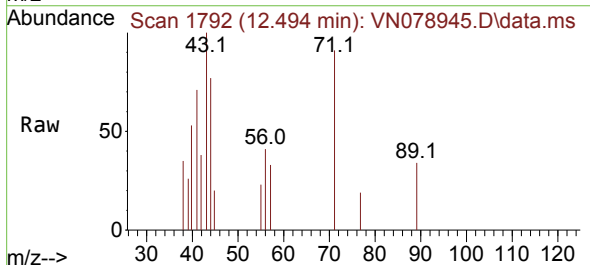


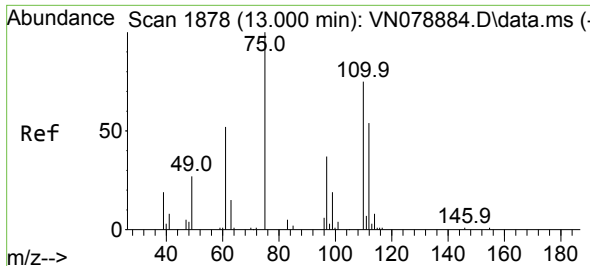
Tgt Ion:152 Resp: 84117
 Ion Ratio Lower Upper
 152 100
 115 59.1 32.3 96.8
 150 155.5 0.0 355.8



#74
 N-ethyl acetate
 Concen: 0.721 ug/l
 RT: 12.494 min Scan# 1792
 Delta R.T. -0.006 min
 Lab File: VN078945.D
 Acq: 18 Aug 2023 16:23

Tgt Ion: 43 Resp: 2551
 Ion Ratio Lower Upper
 43 100
 70 0.0 43.4 65.2#
 55 4.9 21.4 32.0#
 61 0.0 22.8 34.2#

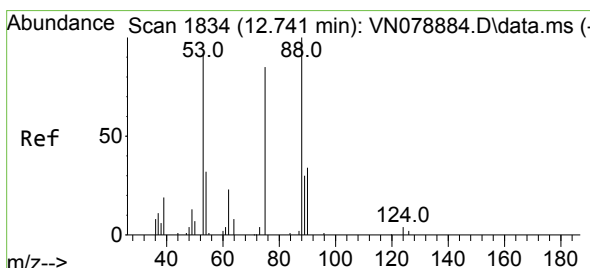
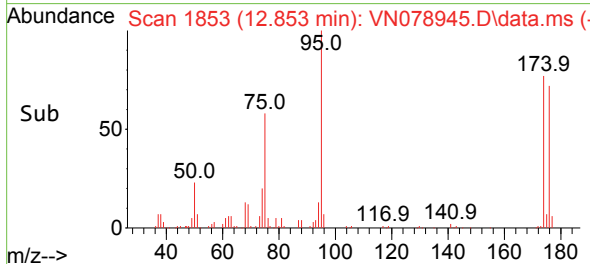
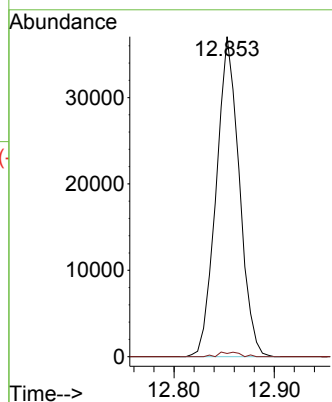
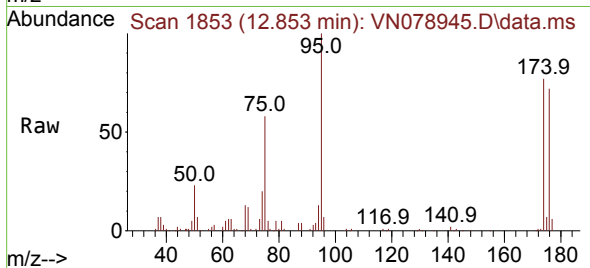




#76
1,2,3-Trichloropropane
Concen: 29.199 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078945.D
Acq: 18 Aug 2023 16:23

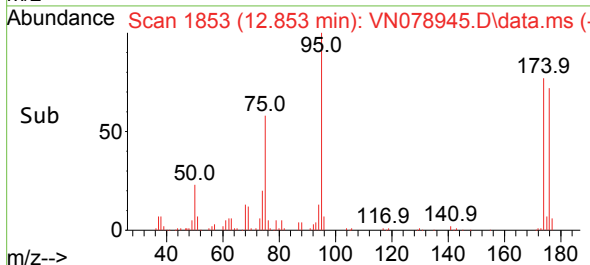
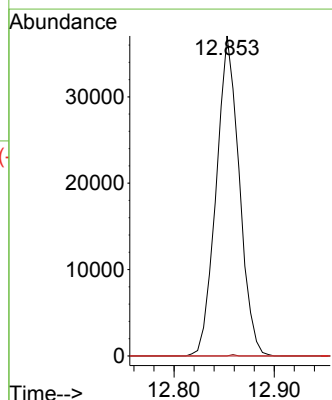
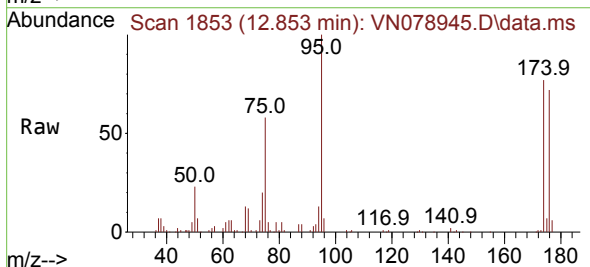
Instrument :
MSVOA_N
ClientSampleId :

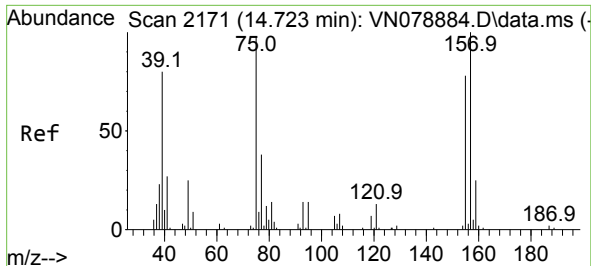
Tgt Ion: 75 Resp: 59180
Ion Ratio Lower Upper
75 100
77 1.3 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 74.590 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078945.D
Acq: 18 Aug 2023 16:23

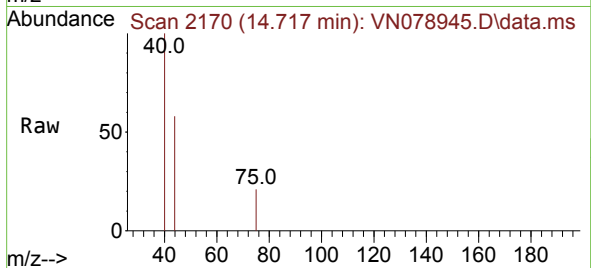
Tgt Ion: 75 Resp: 59180
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.0 38.8 58.2#



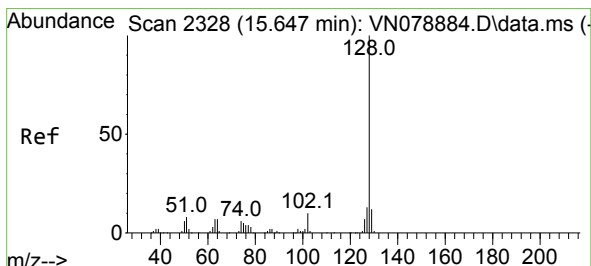
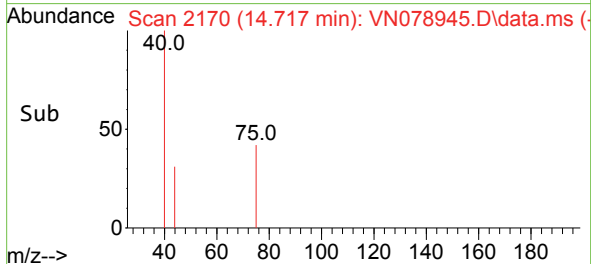
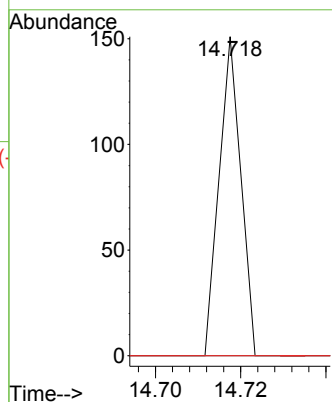


#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 14.717 min Scan# 2171
Delta R.T. -0.006 min
Lab File: VN078945.D
Acq: 18 Aug 2023 16:23

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 75 Resp: 53
Ion Ratio Lower Upper
75 100
155 0.0 39.1 117.2#
157 0.0 50.3 150.9#



#95
Naphthalene
Concen: 2.770 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.006 min
Lab File: VN078945.D
Acq: 18 Aug 2023 16:23

Tgt Ion:128 Resp: 797
Ion Ratio Lower Upper
128 100
127 0.0 10.0 15.0#
129 0.0 8.7 13.1#

