

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111723\
 Data File : VN080163.D
 Acq On : 17 Nov 2023 15:17
 Operator : JC\MD
 Sample : 05447-06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 18 02:31:22 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N111623W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 17 01:19:32 2023
 Response via : Initial Calibration

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

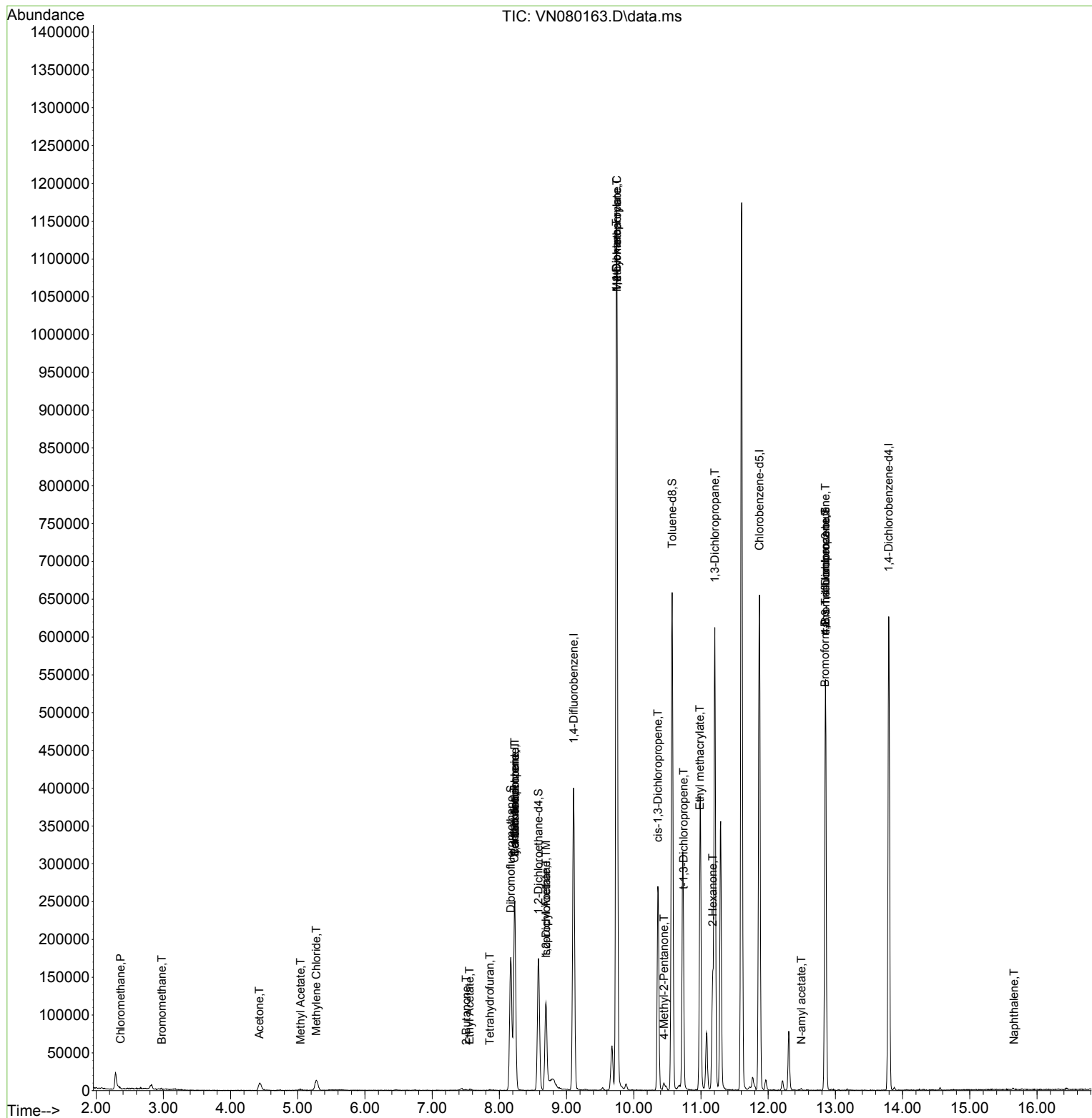
Internal Standards						
1) Pentafluorobenzene	8.229	168	172997	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	328283	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	369882	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	164263	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	157334	55.080	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 110.160%			
35) Dibromofluoromethane	8.171	113	124888	51.558	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.120%			
50) Toluene-d8	10.570	98	459196	52.588	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.180%			
62) 4-Bromofluorobenzene	12.853	95	185734	56.314	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 112.620%			
Target Compounds						Qvalue
3) Chloromethane	2.365	50	409	0.211	ug/l #	42
5) Bromomethane	2.977	94	290	0.208	ug/l #	4
6) Chloroethane	3.159	64	848	Below Cal	#	43
16) Acetone	4.430	43	20261	21.118	ug/l #	81
18) Methyl Acetate	5.041	43	2664	0.864	ug/l #	73
20) Methylene Chloride	5.277	84	11705	5.826	ug/l #	87
25) 2-Butanone	7.506	43	1982	1.739	ug/l #	37
29) Tetrahydrofuran	7.859	42	403	0.659	ug/l #	54
31) Cyclohexane	8.224	56	3564	1.147	ug/l #	40
36) 1,1-Dichloropropene	8.229	75	14020	3.998	ug/l #	49
37) Ethyl Acetate	7.559	43	2831	1.164	ug/l #	72
38) Carbon Tetrachloride	8.229	117	19873	4.465	ug/l #	15
42) 1,2-Dichloroethane	8.694	62	1085	0.266	ug/l #	73
43) Isopropyl Acetate	8.694	43	133416	28.184	ug/l #	84
45) 1,2-Dichloropropane	9.747	63	1304	0.563	ug/l #	45
48) Methyl methacrylate	9.747	41	109893	45.047	ug/l #	29
49) 1,4-Dioxane	9.741	88	160	3.942	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	5519	2.252	ug/l	87
53) t-1,3-Dichloropropene	10.741	75	877	0.221	ug/l #	65
54) cis-1,3-Dichloropropene	10.359	75	51124	12.628	ug/l #	66
56) Ethyl methacrylate	10.982	69	1903	0.782	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	6582	1.583	ug/l #	42
59) 2-Hexanone	11.176	43	102906	52.254	ug/l #	19
71) Bromoform	12.847	173	791	0.328	ug/l #	1
74) N-amyl acetate	12.494	43	1309	0.329	ug/l #	39
76) 1,2,3-Trichloropropane	12.853	75	104277	25.909	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	104277	87.536	ug/l #	15
95) Naphthalene	15.658	128	2064	0.221	ug/l #	84

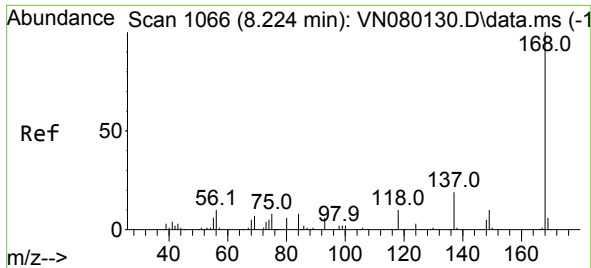
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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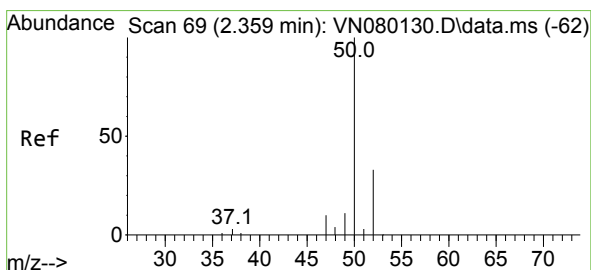
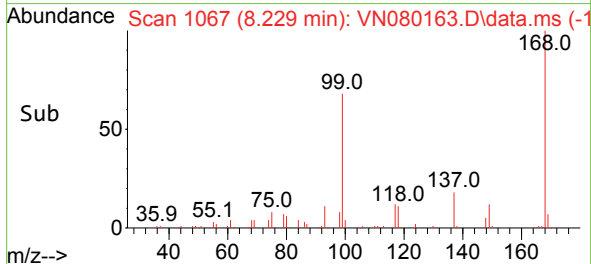
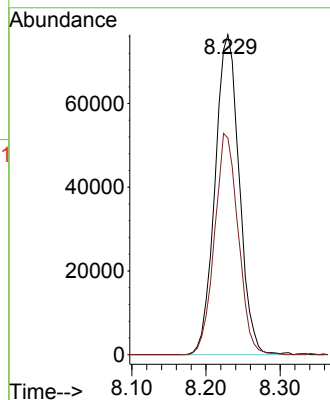
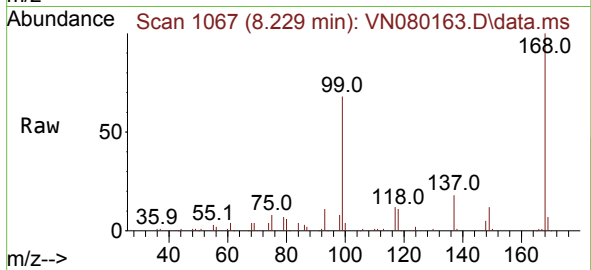




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 10
Delta R.T. 0.005 min
Lab File: VN080163.D
Acq: 17 Nov 2023 15:17

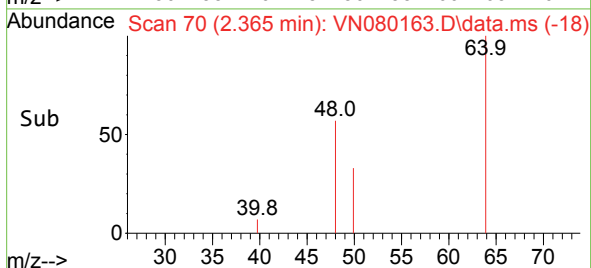
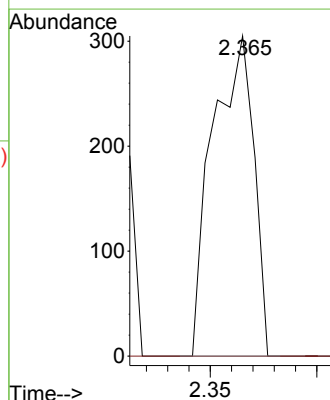
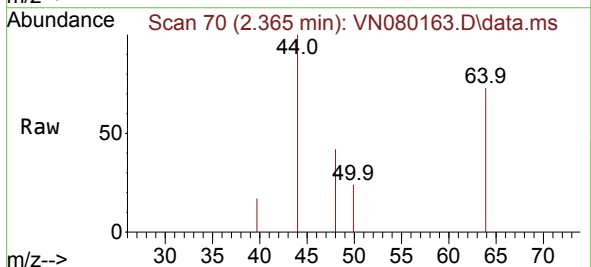
Instrument :
MSVOA_N
ClientSampleId :

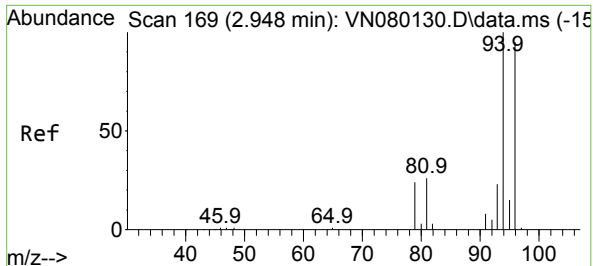
Tgt Ion:168 Resp: 172997
Ion Ratio Lower Upper
168 100
99 67.7 53.0 79.6



#3
Chloromethane
Concen: 0.211 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN080163.D
Acq: 17 Nov 2023 15:17

Tgt Ion: 50 Resp: 409
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#

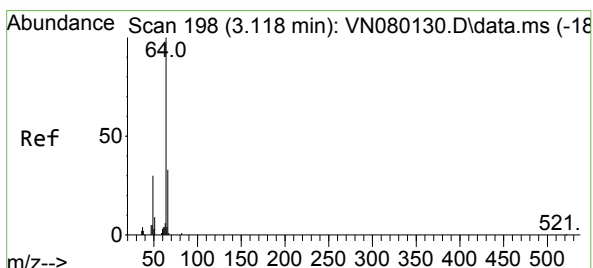
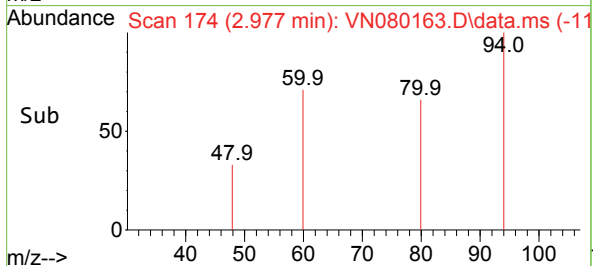
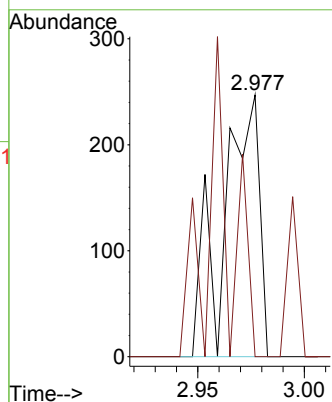
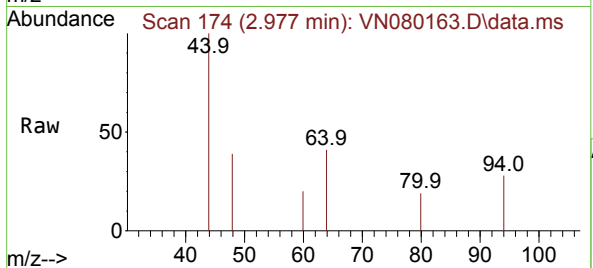




#5
Bromomethane
Concen: 0.208 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.029 min
Lab File: VN080163.D
Acq: 17 Nov 2023 15:17

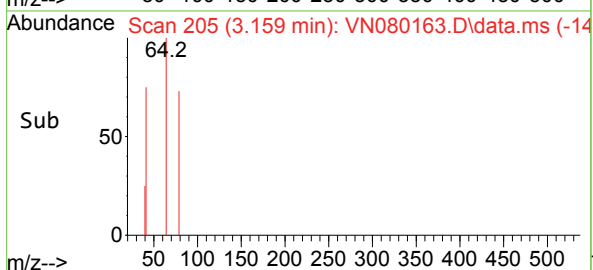
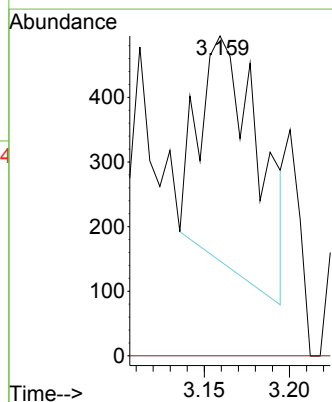
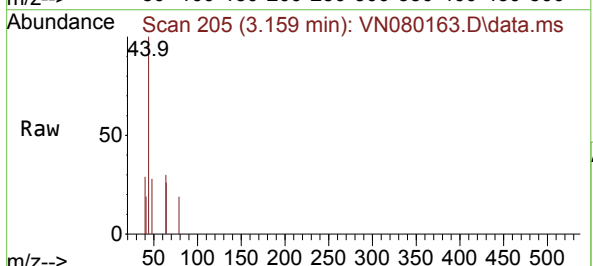
Instrument :
MSVOA_N
ClientSampleId :

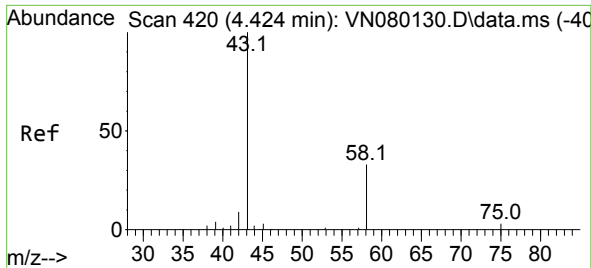
Tgt Ion: 94 Resp: 290
Ion Ratio Lower Upper
94 100
96 0.0 73.1 109.7#



#6
Chloroethane
Concen: Below Cal
RT: 3.159 min Scan# 205
Delta R.T. 0.041 min
Lab File: VN080163.D
Acq: 17 Nov 2023 15:17

Tgt Ion: 64 Resp: 848
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#





#16

Acetone

Concen: 21.118 ug/l

RT: 4.430 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN080163.D

Acq: 17 Nov 2023 15:17

Instrument :

MSVOA_N

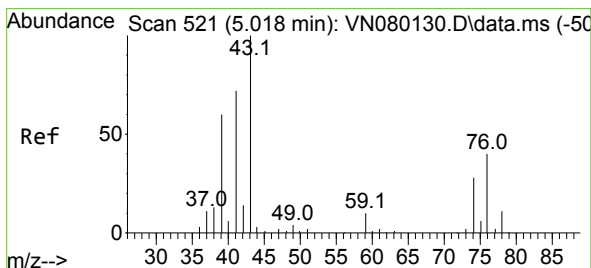
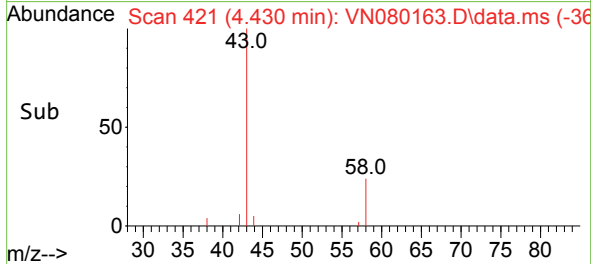
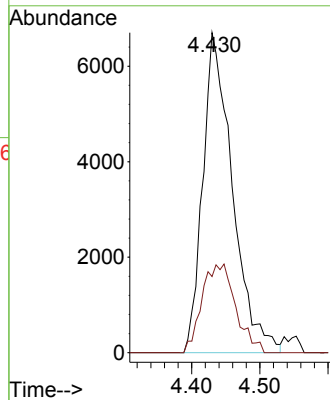
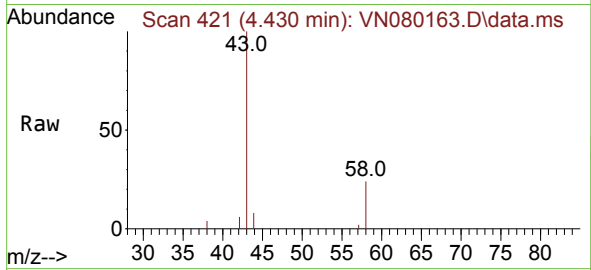
ClientSampleId :

Tgt Ion: 43 Resp: 20261

Ion Ratio Lower Upper

43 100

58 23.8 28.0 42.0#



#18

Methyl Acetate

Concen: 0.864 ug/l

RT: 5.041 min Scan# 525

Delta R.T. 0.023 min

Lab File: VN080163.D

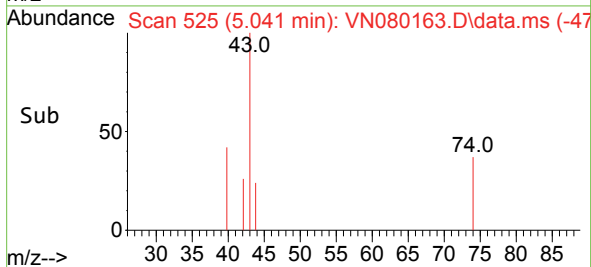
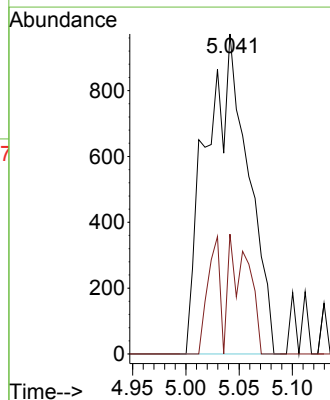
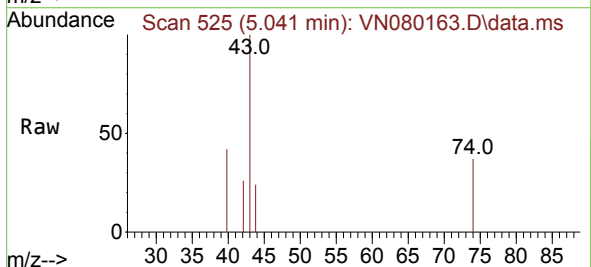
Acq: 17 Nov 2023 15:17

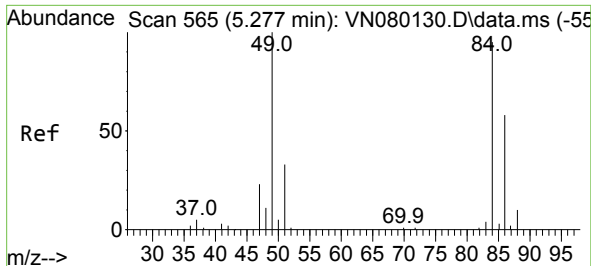
Tgt Ion: 43 Resp: 2664

Ion Ratio Lower Upper

43 100

74 17.4 26.2 39.4#





#20

Methylene Chloride

Concen: 5.826 ug/l

RT: 5.277 min Scan# 51

Delta R.T. -0.000 min

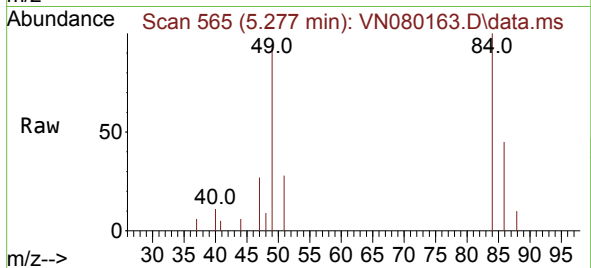
Lab File: VN080163.D

Acq: 17 Nov 2023 15:17

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 84 Resp: 11705

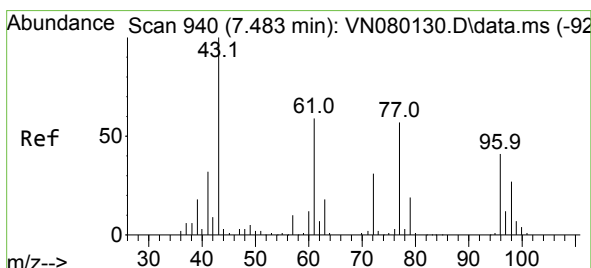
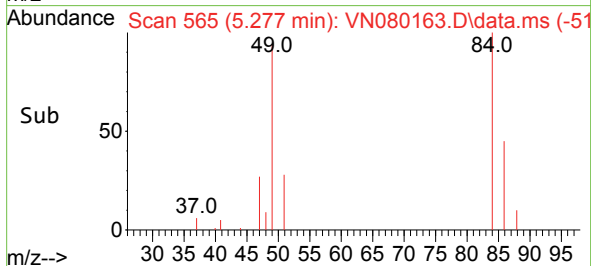
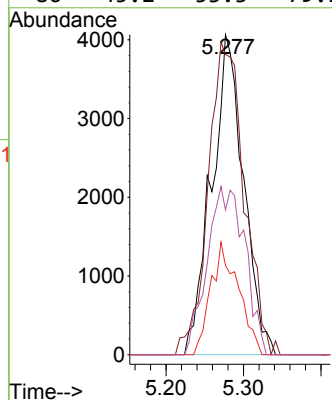
Ion Ratio Lower Upper

84 100

49 93.8 79.7 119.5

51 27.9 25.2 37.8

86 45.2 53.3 79.9#



#25

2-Butanone

Concen: 1.739 ug/l

RT: 7.506 min Scan# 944

Delta R.T. 0.023 min

Lab File: VN080163.D

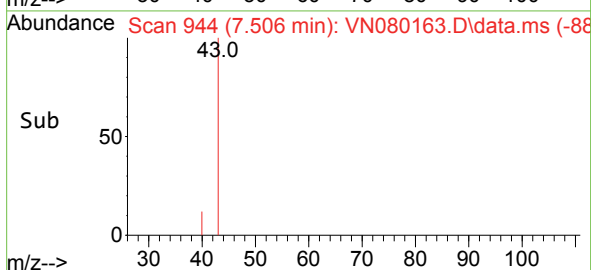
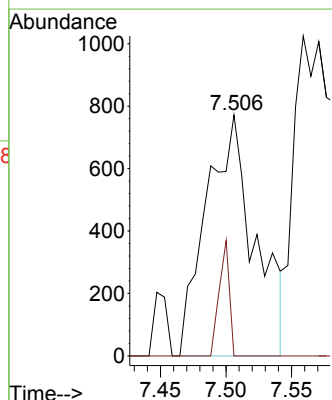
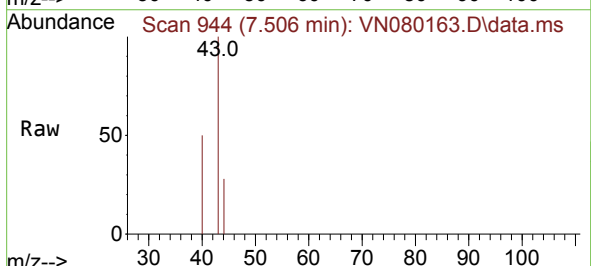
Acq: 17 Nov 2023 15:17

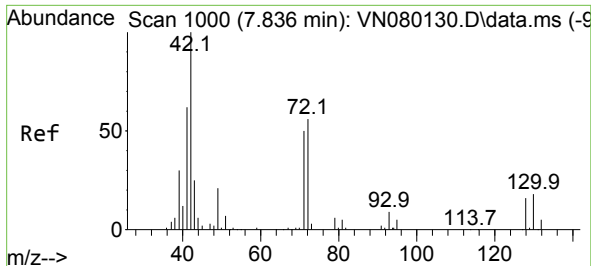
Tgt Ion: 43 Resp: 1982

Ion Ratio Lower Upper

43 100

72 0.0 30.2 45.2#





#29

Tetrahydrofuran

Concen: 0.659 ug/l

RT: 7.859 min Scan# 1004

Delta R.T. 0.023 min

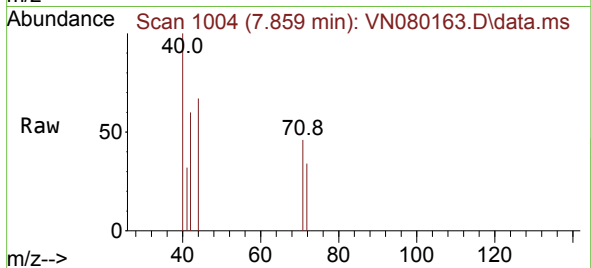
Lab File: VN080163.D

Acq: 17 Nov 2023 15:17

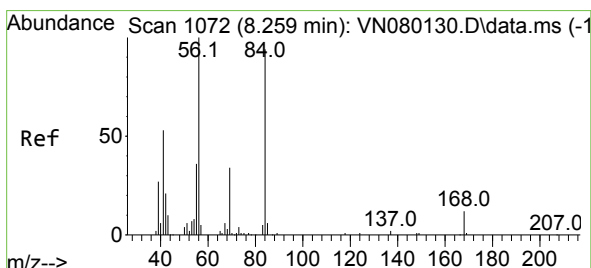
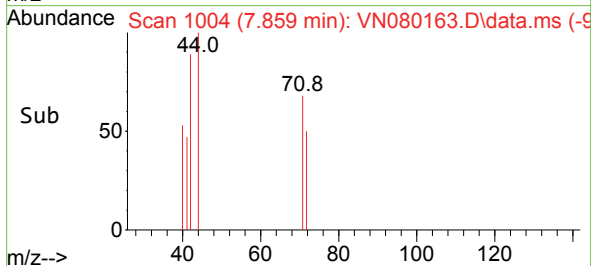
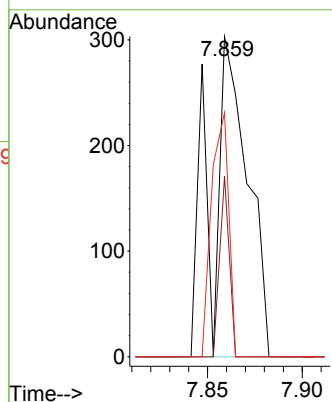
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	403
Ion	Ratio	Lower	Upper
42	100		
72	14.9	49.8	74.6#
71	36.2	47.4	71.2#



#31

Cyclohexane

Concen: 1.147 ug/l

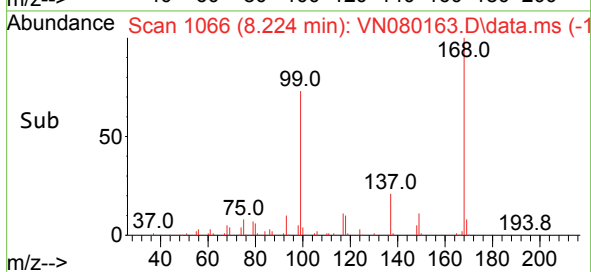
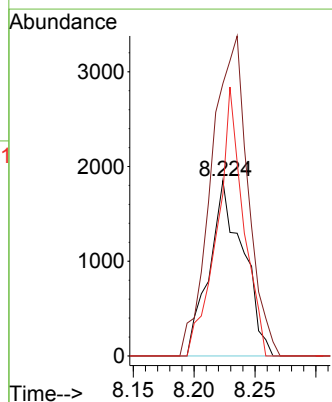
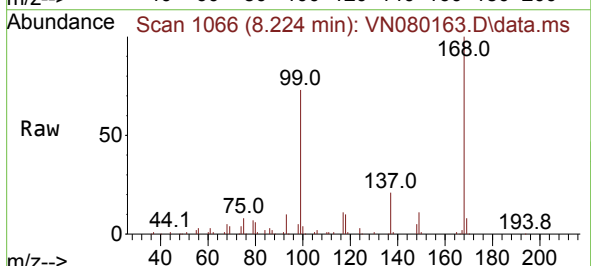
RT: 8.224 min Scan# 1066

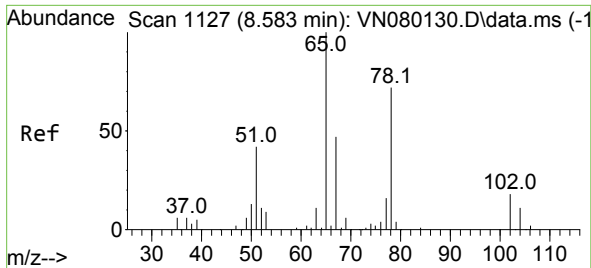
Delta R.T. -0.036 min

Lab File: VN080163.D

Acq: 17 Nov 2023 15:17

Tgt Ion:	56	Resp:	3564
Ion	Ratio	Lower	Upper
56	100		
69	155.4	26.8	40.2#
84	92.5	81.8	122.6





#33

1,2-Dichloroethane-d4

Concen: 55.080 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VN080163.D

Acq: 17 Nov 2023 15:17

Instrument :

MSVOA_N

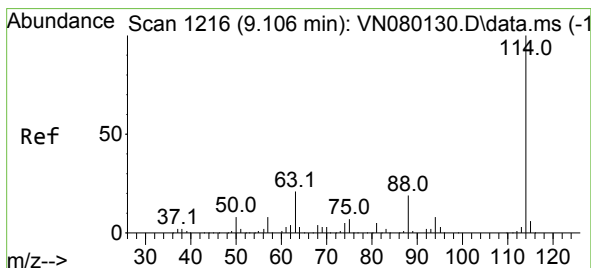
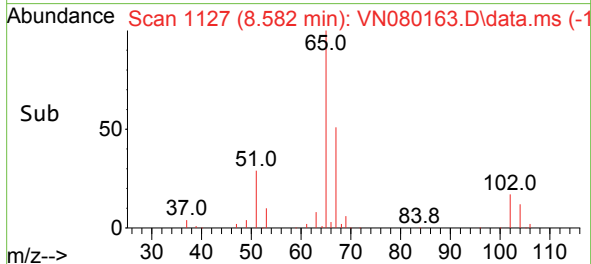
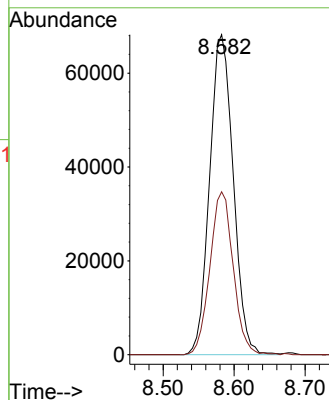
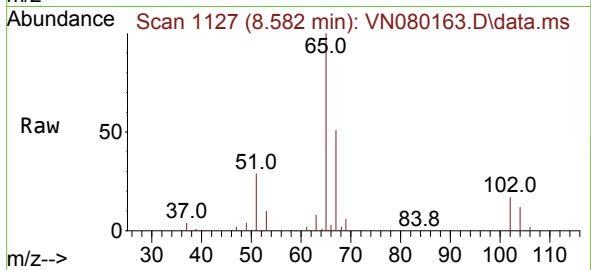
ClientSampleId :

Tgt Ion: 65 Resp: 157334

Ion Ratio Lower Upper

65 100

67 50.3 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN080163.D

Acq: 17 Nov 2023 15:17

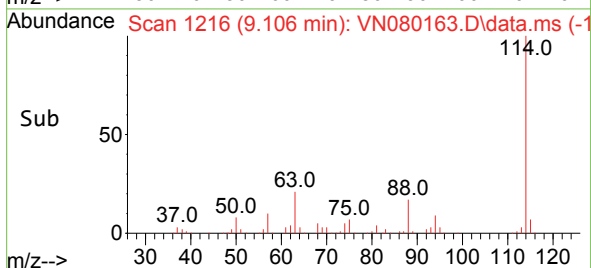
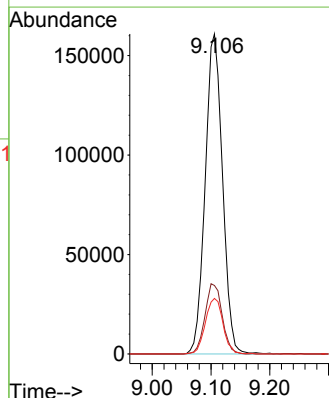
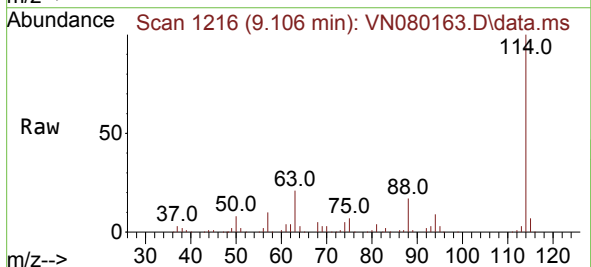
Tgt Ion:114 Resp: 328283

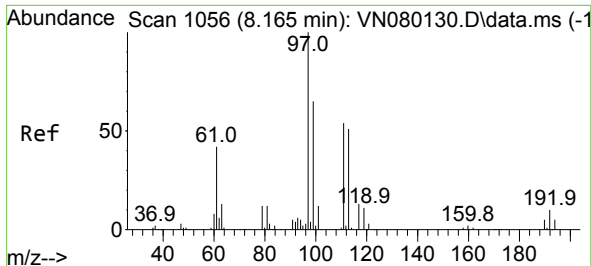
Ion Ratio Lower Upper

114 100

63 21.4 0.0 36.4

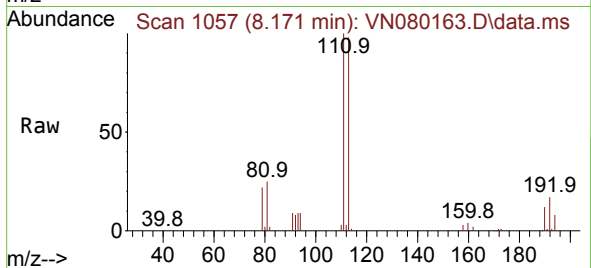
88 17.4 0.0 30.6



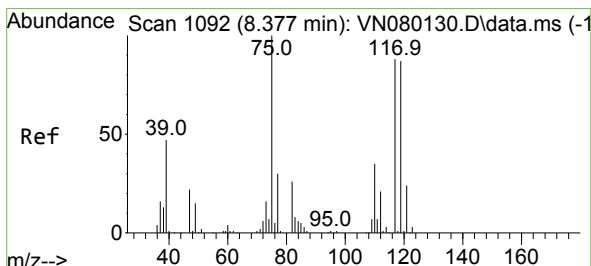
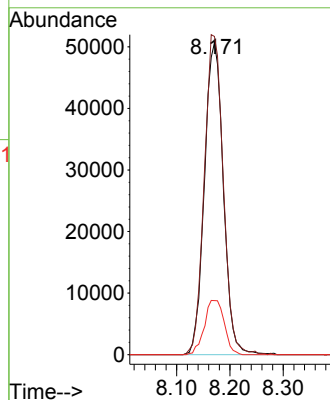
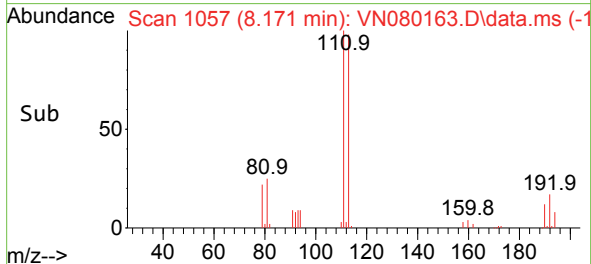


#35
Dibromofluoromethane
Concen: 51.558 ug/l
RT: 8.171 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN080163.D
Acq: 17 Nov 2023 15:17

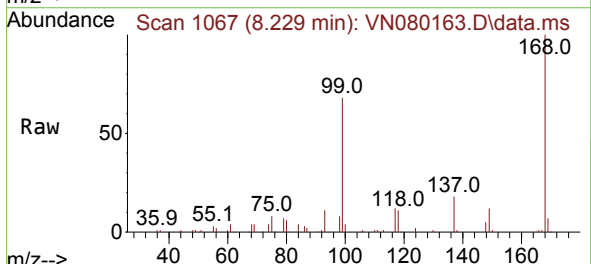
Instrument :
MSVOA_N
ClientSampleId :



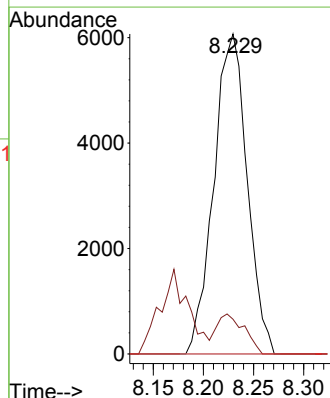
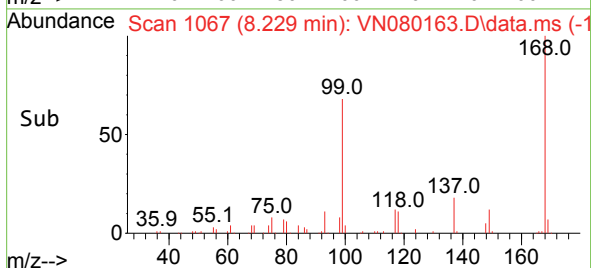
Tgt Ion:113 Resp: 124888
Ion Ratio Lower Upper
113 100
111 102.9 82.6 123.8
192 18.3 12.7 19.1

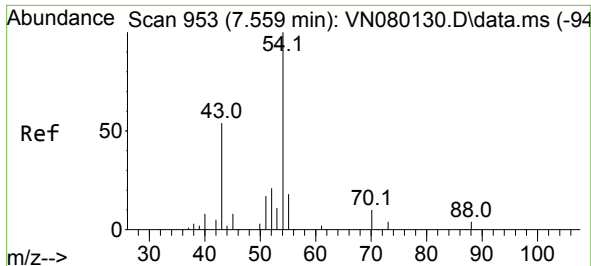


#36
1,1-Dichloropropene
Concen: 3.998 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN080163.D
Acq: 17 Nov 2023 15:17



Tgt Ion: 75 Resp: 14020
Ion Ratio Lower Upper
75 100
110 10.3 19.1 57.3#
77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 1.164 ug/l

RT: 7.559 min Scan# 91

Delta R.T. -0.000 min

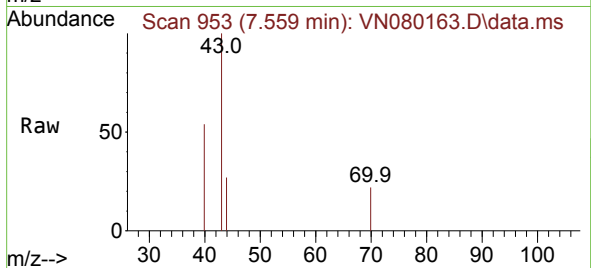
Lab File: VN080163.D

Acq: 17 Nov 2023 15:17

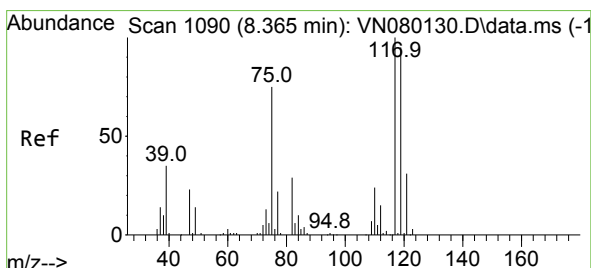
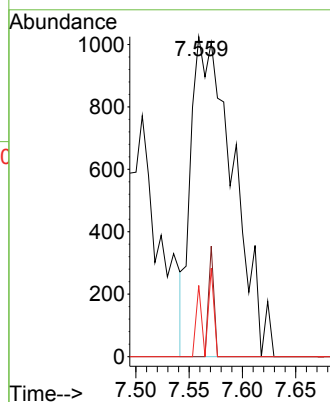
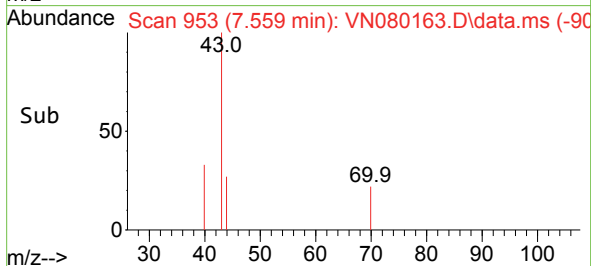
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	43	Resp:	2831
Ion	Ratio	Lower	Upper
43	100		
61	4.4	13.2	19.8#
70	2.8	11.3	16.9#



#38

Carbon Tetrachloride

Concen: 4.465 ug/l

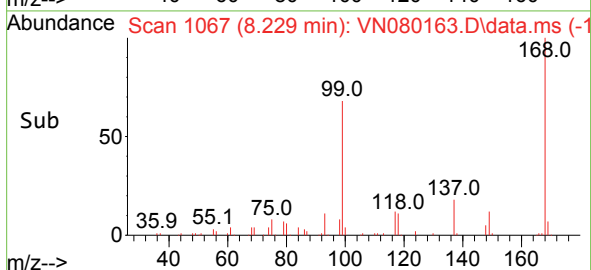
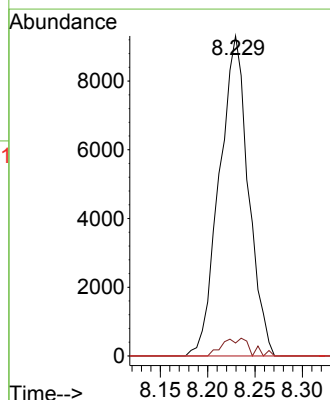
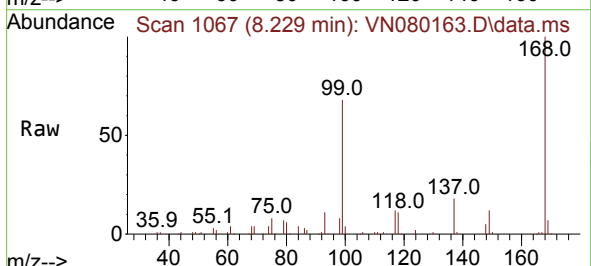
RT: 8.229 min Scan# 1067

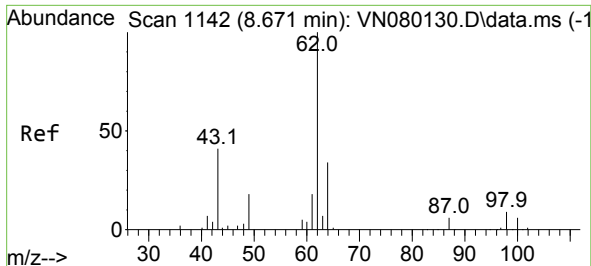
Delta R.T. -0.136 min

Lab File: VN080163.D

Acq: 17 Nov 2023 15:17

Tgt Ion:	117	Resp:	19873
Ion	Ratio	Lower	Upper
117	100		
119	4.1	77.3	115.9#
121	0.0	23.3	34.9#





#42

1,2-Dichloroethane

Concen: 0.266 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.023 min

Lab File: VN080163.D

Acq: 17 Nov 2023 15:17

Instrument :

MSVOA_N

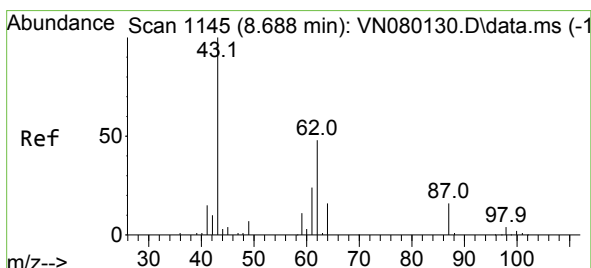
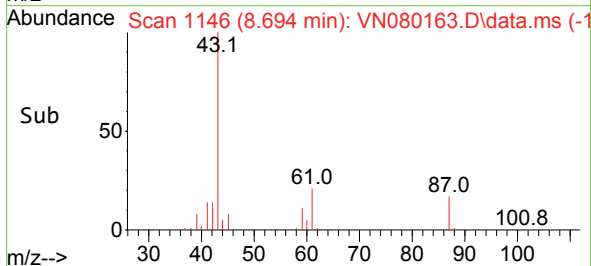
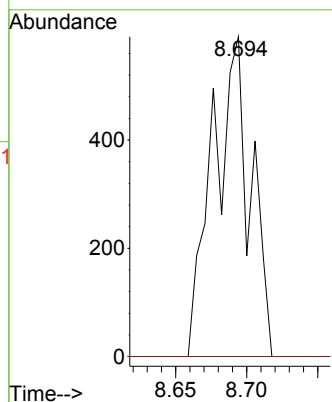
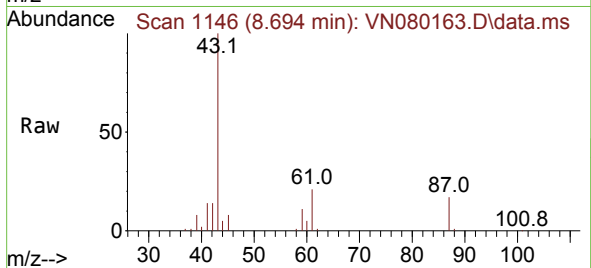
ClientSampleId :

Tgt Ion: 62 Resp: 1085

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 28.184 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.006 min

Lab File: VN080163.D

Acq: 17 Nov 2023 15:17

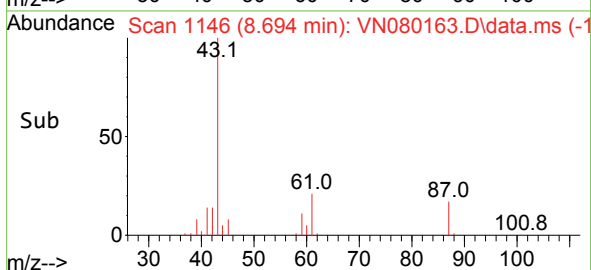
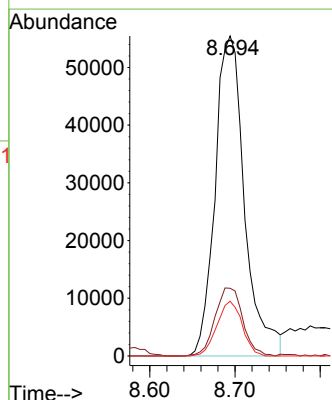
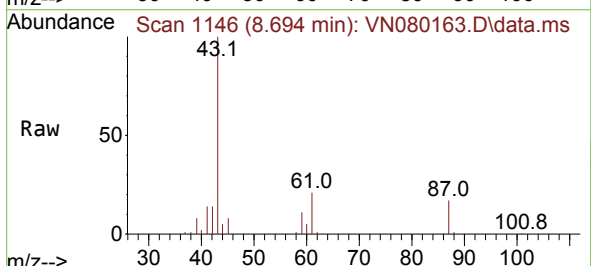
Tgt Ion: 43 Resp: 133416

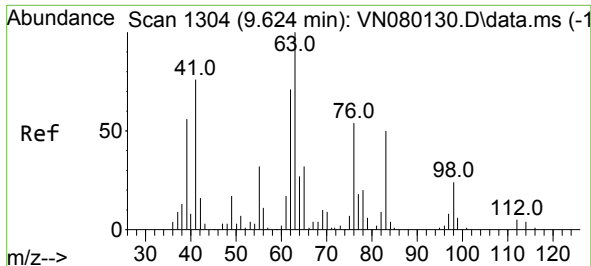
Ion Ratio Lower Upper

43 100

61 20.0 24.7 37.1#

87 14.6 14.6 21.8

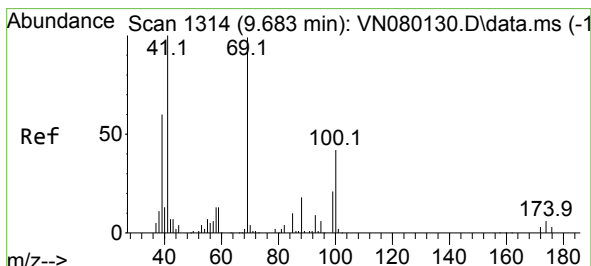
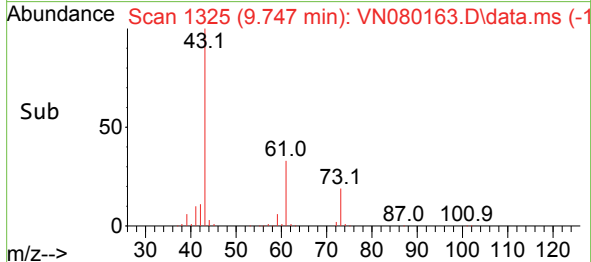
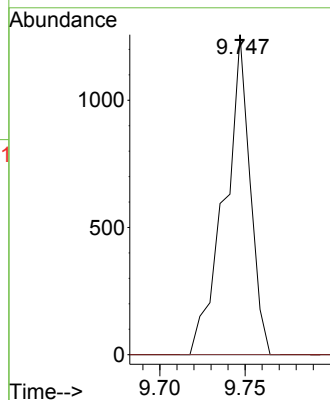
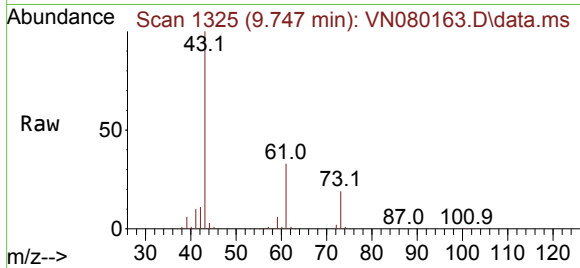




#45
1,2-Dichloropropane
Concen: 0.563 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.123 min
Lab File: VN080163.D
Acq: 17 Nov 2023 15:17

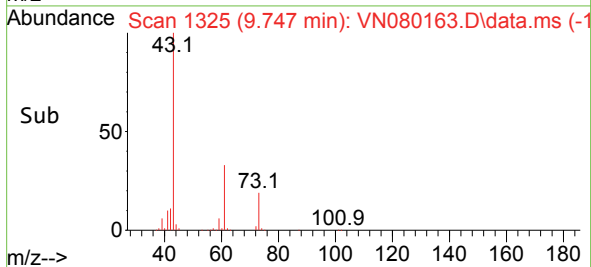
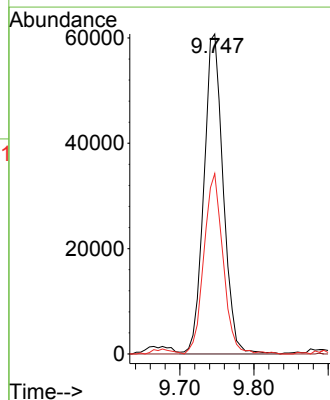
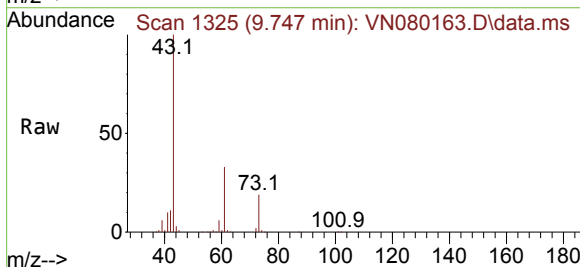
Instrument :
MSVOA_N
ClientSampleId :

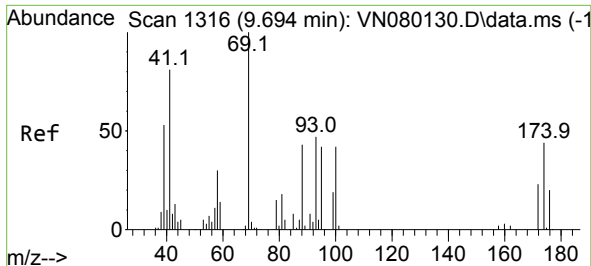
Tgt Ion: 63 Resp: 1304
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#



#48
Methyl methacrylate
Concen: 45.047 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.064 min
Lab File: VN080163.D
Acq: 17 Nov 2023 15:17

Tgt Ion: 41 Resp: 109893
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 56.2 54.6 81.8





#49

1,4-Dioxane

Concen: 3.942 ug/l

RT: 9.741 min Scan# 1

Delta R.T. 0.047 min

Lab File: VN080163.D

Acq: 17 Nov 2023 15:17

Instrument :

MSVOA_N

ClientSampleId :

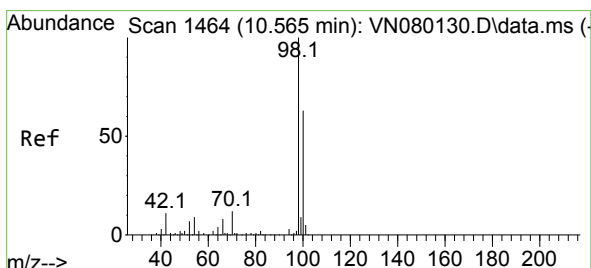
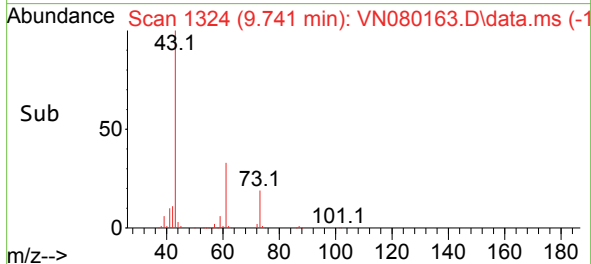
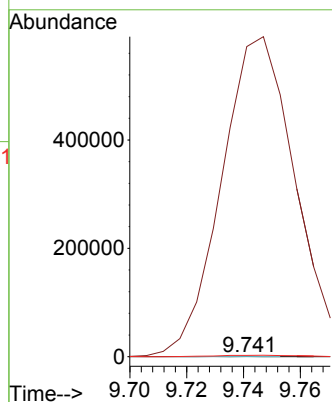
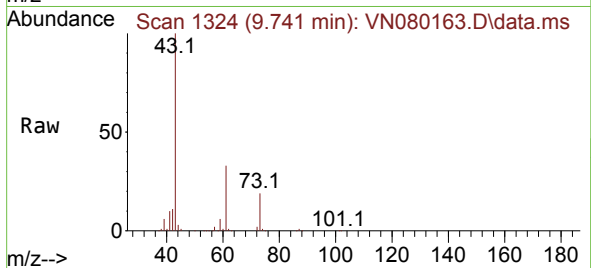
Tgt Ion: 88 Resp: 160

Ion Ratio Lower Upper

88 100

43 673373.1 17.0 25.6#

58 3398.7 47.0 70.4#



#50

Toluene-d8

Concen: 52.588 ug/l

RT: 10.570 min Scan# 1465

Delta R.T. 0.006 min

Lab File: VN080163.D

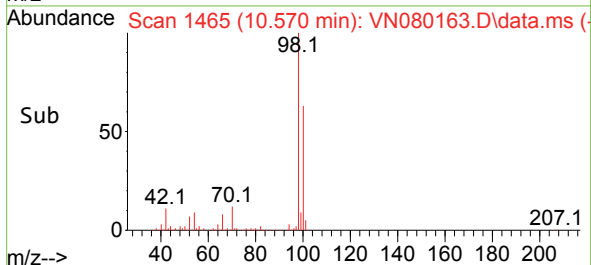
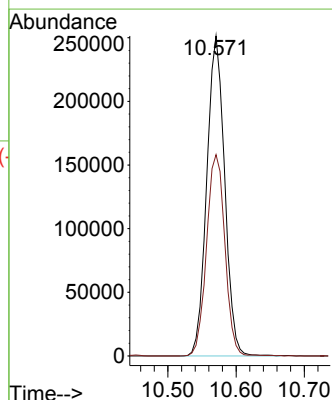
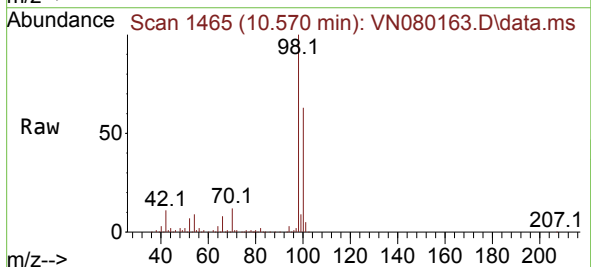
Acq: 17 Nov 2023 15:17

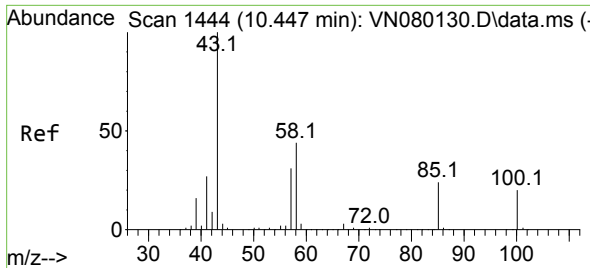
Tgt Ion: 98 Resp: 459196

Ion Ratio Lower Upper

98 100

100 64.5 52.0 78.0

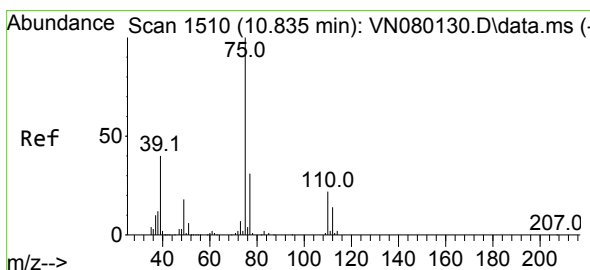
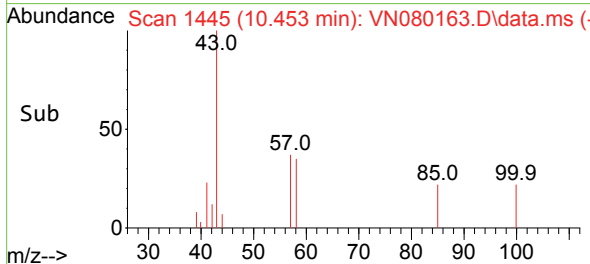
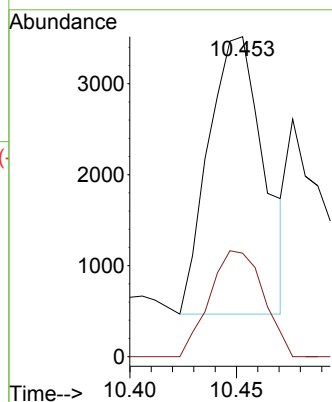
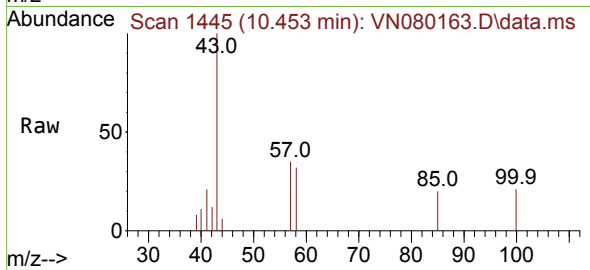




#51
4-Methyl-2-Pentanone
Concen: 2.252 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN080163.D
Acq: 17 Nov 2023 15:17

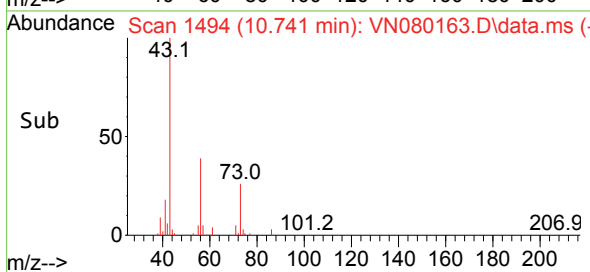
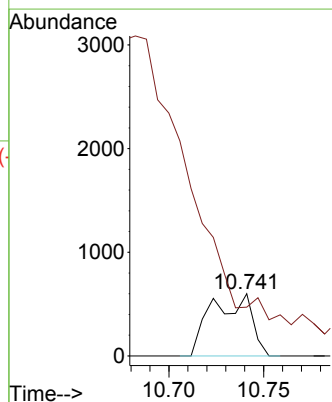
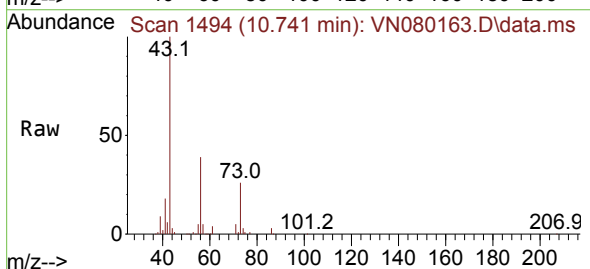
Instrument :
MSVOA_N
ClientSampleId :

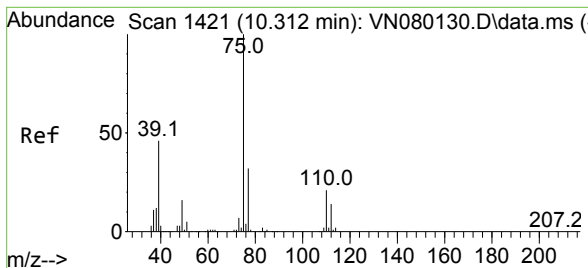
Tgt Ion: 43 Resp: 5519
Ion Ratio Lower Upper
43 100
58 37.0 36.6 54.8



#53
t-1,3-Dichloropropene
Concen: 0.221 ug/l
RT: 10.741 min Scan# 1494
Delta R.T. -0.094 min
Lab File: VN080163.D
Acq: 17 Nov 2023 15:17

Tgt Ion: 75 Resp: 877
Ion Ratio Lower Upper
75 100
77 12.5 25.4 38.0#

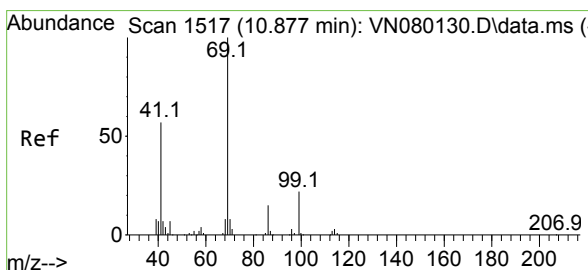
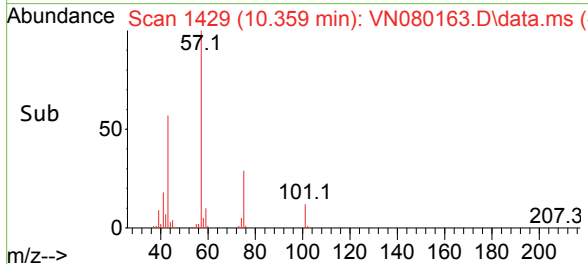
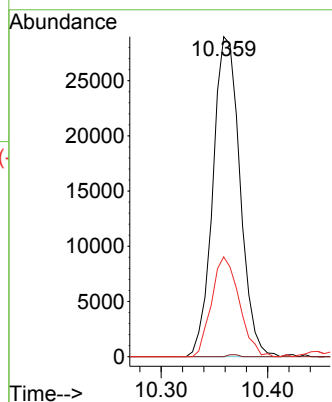
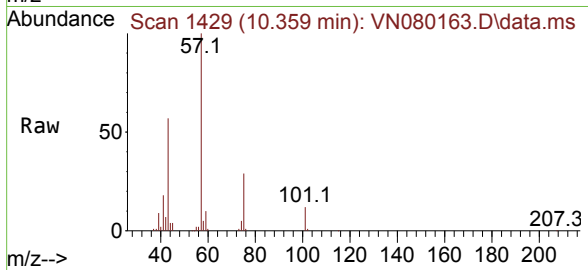




#54
cis-1,3-Dichloropropene
Concen: 12.628 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN080163.D
Acq: 17 Nov 2023 15:17

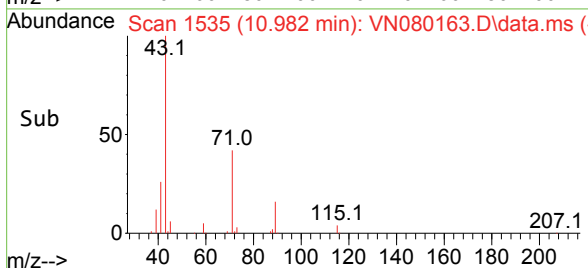
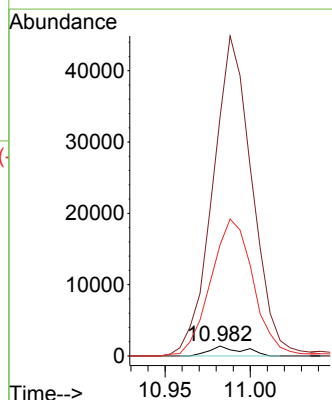
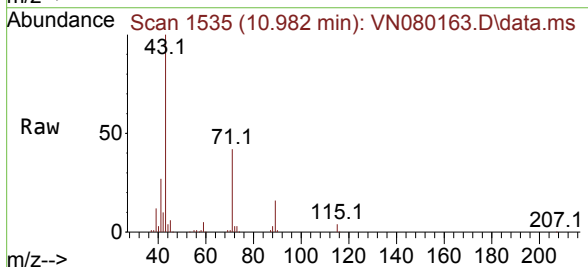
Instrument :
MSVOA_N
ClientSampleId :

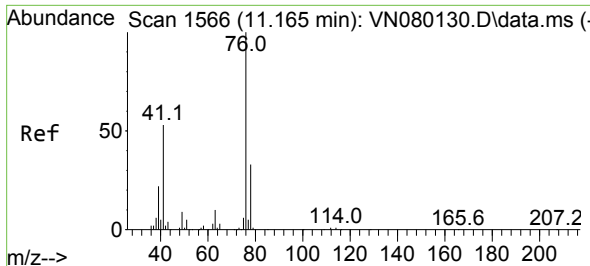
Tgt Ion: 75 Resp: 51124
Ion Ratio Lower Upper
75 100
77 0.0 26.1 39.1#
39 31.2 31.6 47.4#



#56
Ethyl methacrylate
Concen: 0.782 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.106 min
Lab File: VN080163.D
Acq: 17 Nov 2023 15:17

Tgt Ion: 69 Resp: 1903
Ion Ratio Lower Upper
69 100
41 3794.3 39.6 59.4#
39 1753.7 28.6 43.0#





#57

1,3-Dichloropropane

Concen: 1.583 ug/l

RT: 11.206 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN080163.D

Acq: 17 Nov 2023 15:17

Instrument :

MSVOA_N

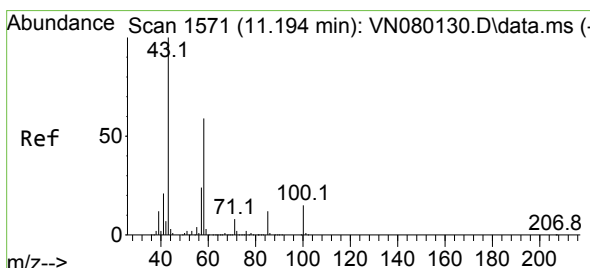
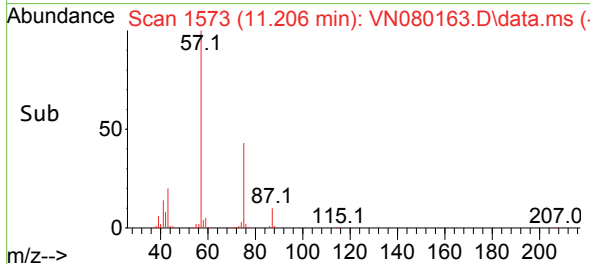
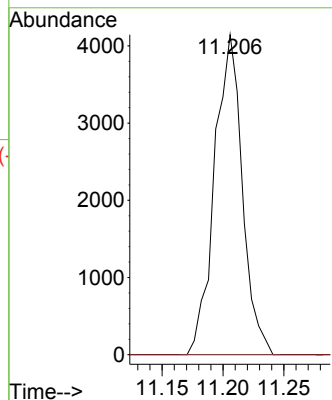
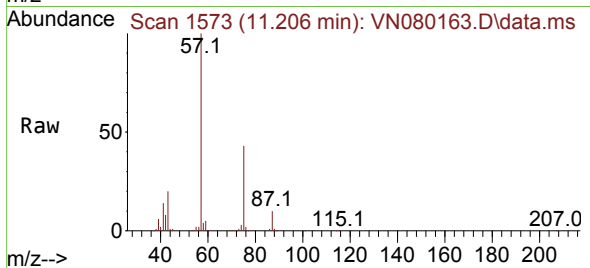
ClientSampleId :

Tgt Ion: 76 Resp: 6582

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 52.254 ug/l

RT: 11.176 min Scan# 1568

Delta R.T. -0.018 min

Lab File: VN080163.D

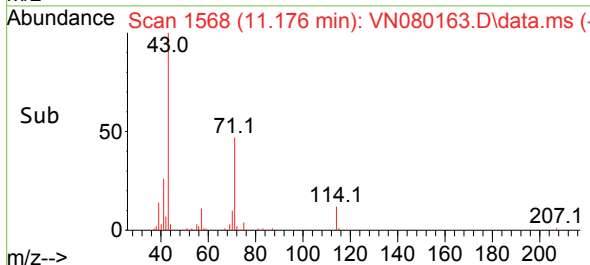
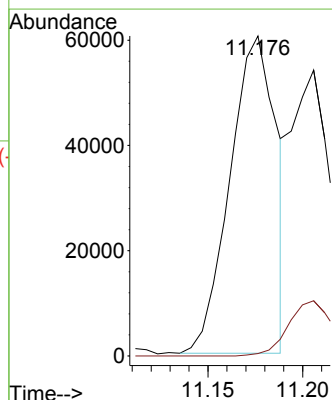
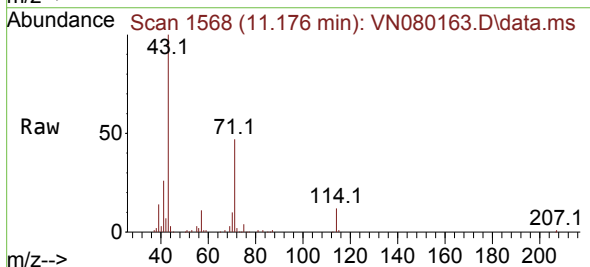
Acq: 17 Nov 2023 15:17

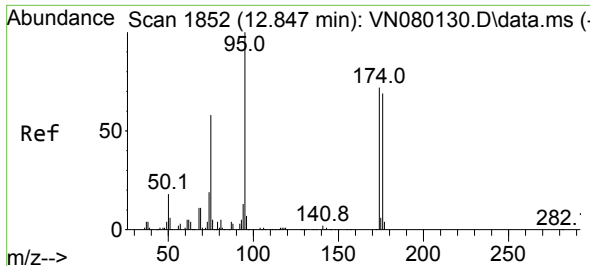
Tgt Ion: 43 Resp: 102906

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

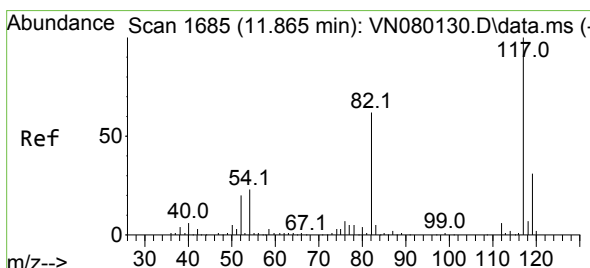
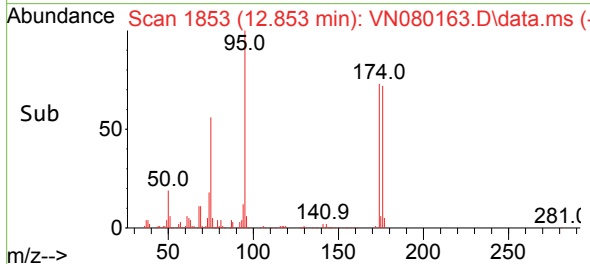
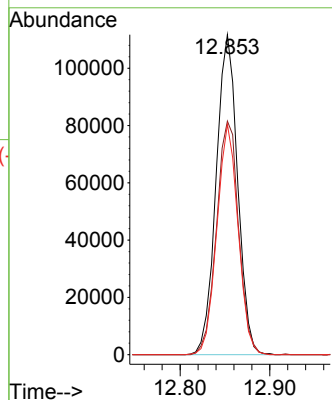
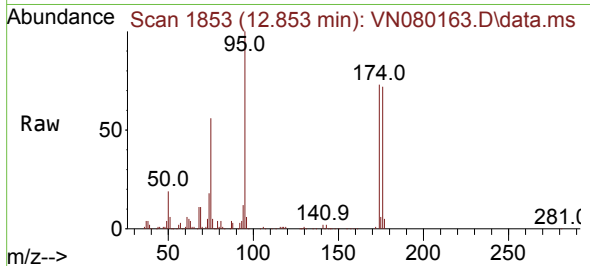




#62
4-Bromofluorobenzene
Concen: 56.314 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN080163.D
Acq: 17 Nov 2023 15:17

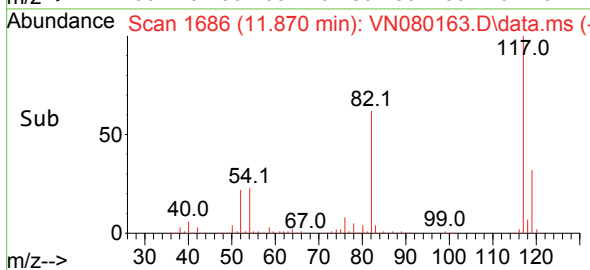
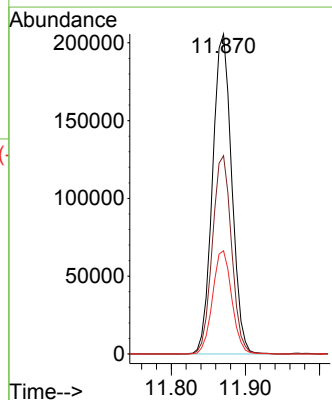
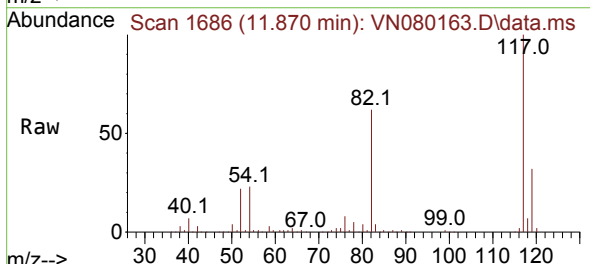
Instrument :
MSVOA_N
ClientSampleId :

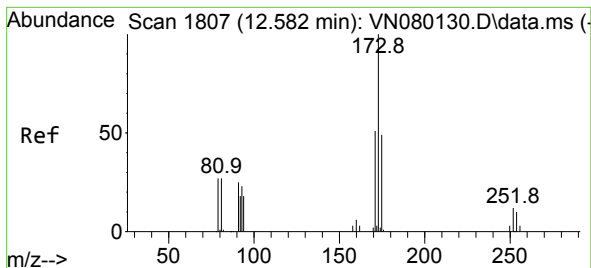
Tgt Ion: 95 Resp: 185734
Ion Ratio Lower Upper
95 100
174 75.4 0.0 143.8
176 70.8 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VN080163.D
Acq: 17 Nov 2023 15:17

Tgt Ion: 117 Resp: 369882
Ion Ratio Lower Upper
117 100
82 61.9 44.0 66.0
119 32.3 25.6 38.4





#71

Bromoform

Concen: 0.328 ug/l

RT: 12.847 min Scan# 1807

Delta R.T. 0.264 min

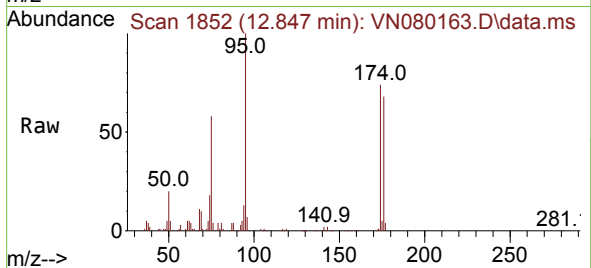
Lab File: VN080163.D

Acq: 17 Nov 2023 15:17

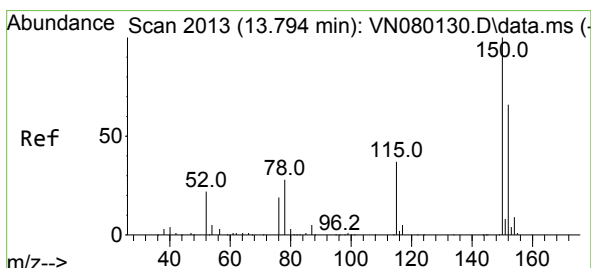
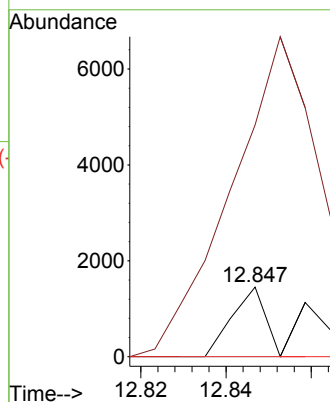
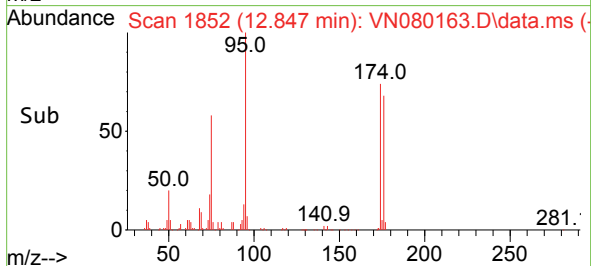
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	173	Resp:	791
Ion Ratio	Lower	Upper	
173	100		
175	1044.5	24.3	73.0#
254	0.0	0.0	0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

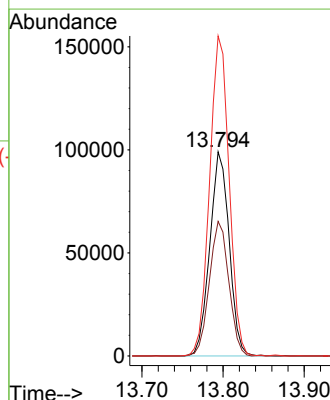
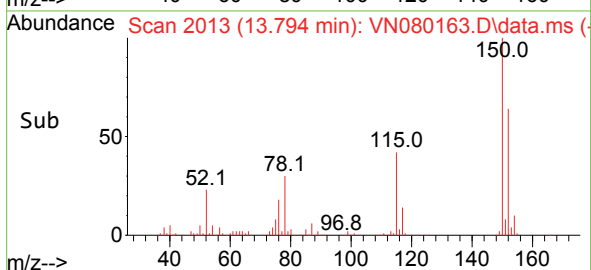
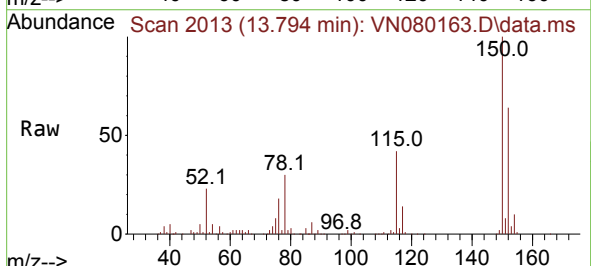
RT: 13.794 min Scan# 2013

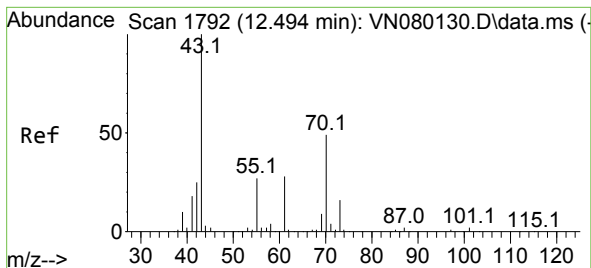
Delta R.T. -0.000 min

Lab File: VN080163.D

Acq: 17 Nov 2023 15:17

Tgt Ion:	152	Resp:	164263
Ion Ratio	Lower	Upper	
152	100		
115	66.2	32.3	96.8
150	157.6	0.0	355.8





#74

N-amy1 acetate

Concen: 0.329 ug/l

RT: 12.494 min Scan# 1

Delta R.T. -0.000 min

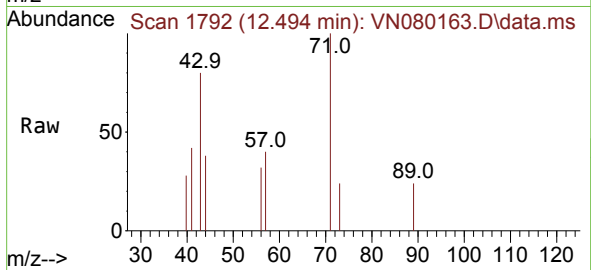
Lab File: VN080163.D

Acq: 17 Nov 2023 15:17

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 43 Resp: 1309

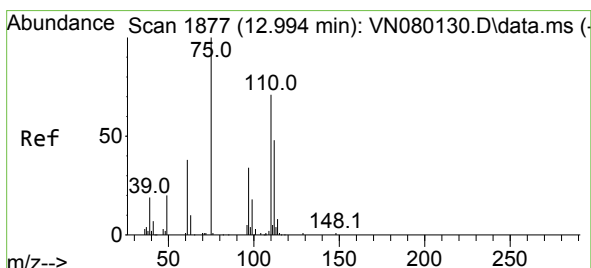
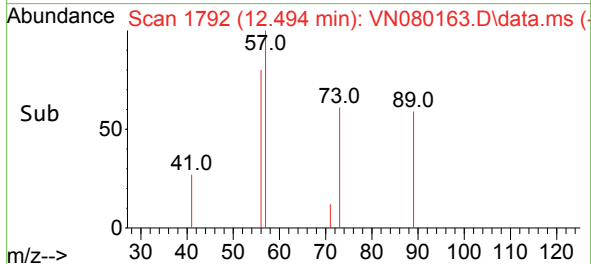
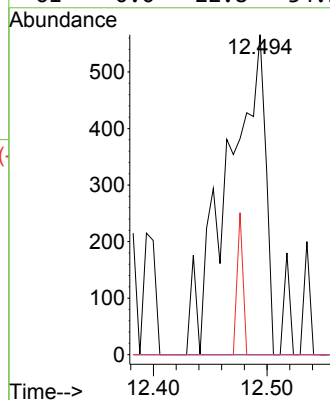
Ion Ratio Lower Upper

43 100

70 0.0 43.4 65.2#

55 6.8 21.4 32.0#

61 0.0 22.8 34.2#



#76

1,2,3-Trichloropropane

Concen: 25.909 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN080163.D

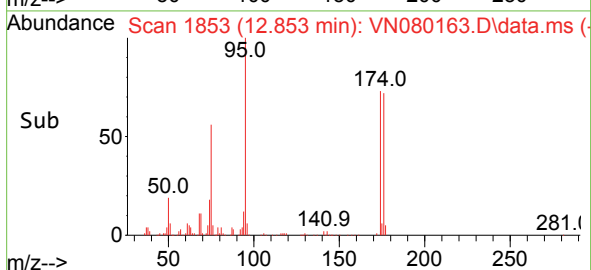
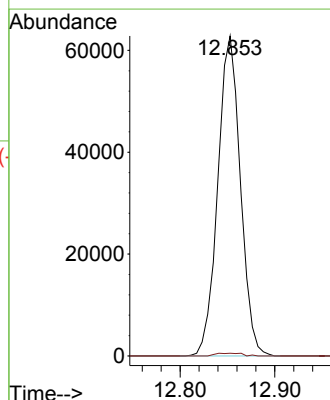
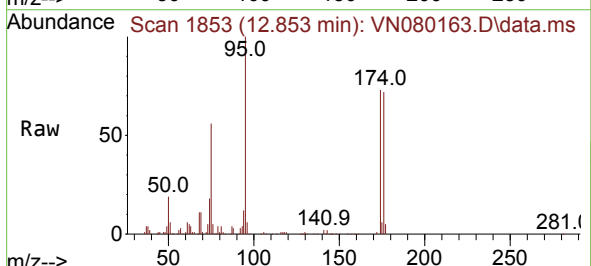
Acq: 17 Nov 2023 15:17

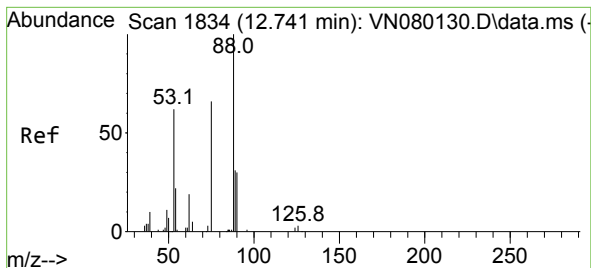
Tgt Ion: 75 Resp: 104277

Ion Ratio Lower Upper

75 100

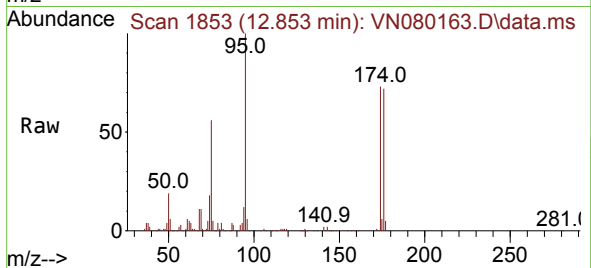
77 1.0 84.5 253.5#



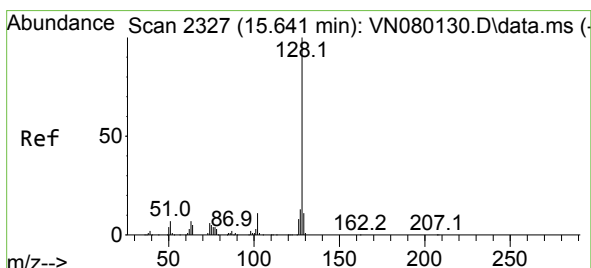
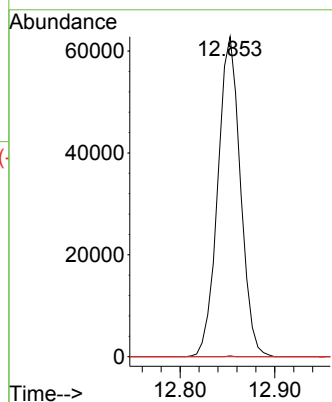
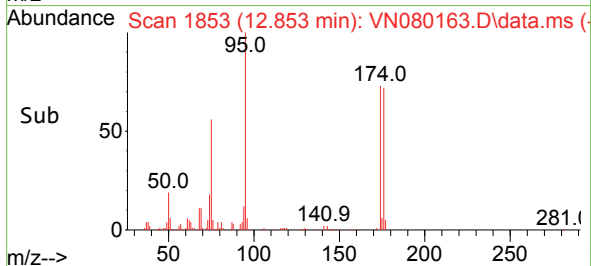


#81
 trans-1,4-Dichloro-2-butene
 Concen: 87.536 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.112 min
 Lab File: VN080163.D
 Acq: 17 Nov 2023 15:17

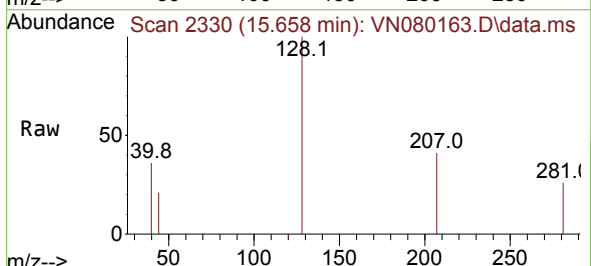
Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 104277
 Ion Ratio Lower Upper
 75 100
 53 0.1 67.4 101.2#
 89 0.0 38.8 58.2#



#95
 Naphthalene
 Concen: 0.221 ug/l
 RT: 15.658 min Scan# 2330
 Delta R.T. 0.017 min
 Lab File: VN080163.D
 Acq: 17 Nov 2023 15:17



Tgt Ion: 128 Resp: 2064
 Ion Ratio Lower Upper
 128 100
 127 10.4 10.0 15.0
 129 0.0 8.7 13.1#

