

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052223\
 Data File : VN077789.D
 Acq On : 22 May 2023 15:05
 Operator : JC\MD
 Sample : 02880-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE132D5-20230517

Quant Time: May 23 04:19:55 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051523W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 16 04:07:42 2023
 Response via : Initial Calibration

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

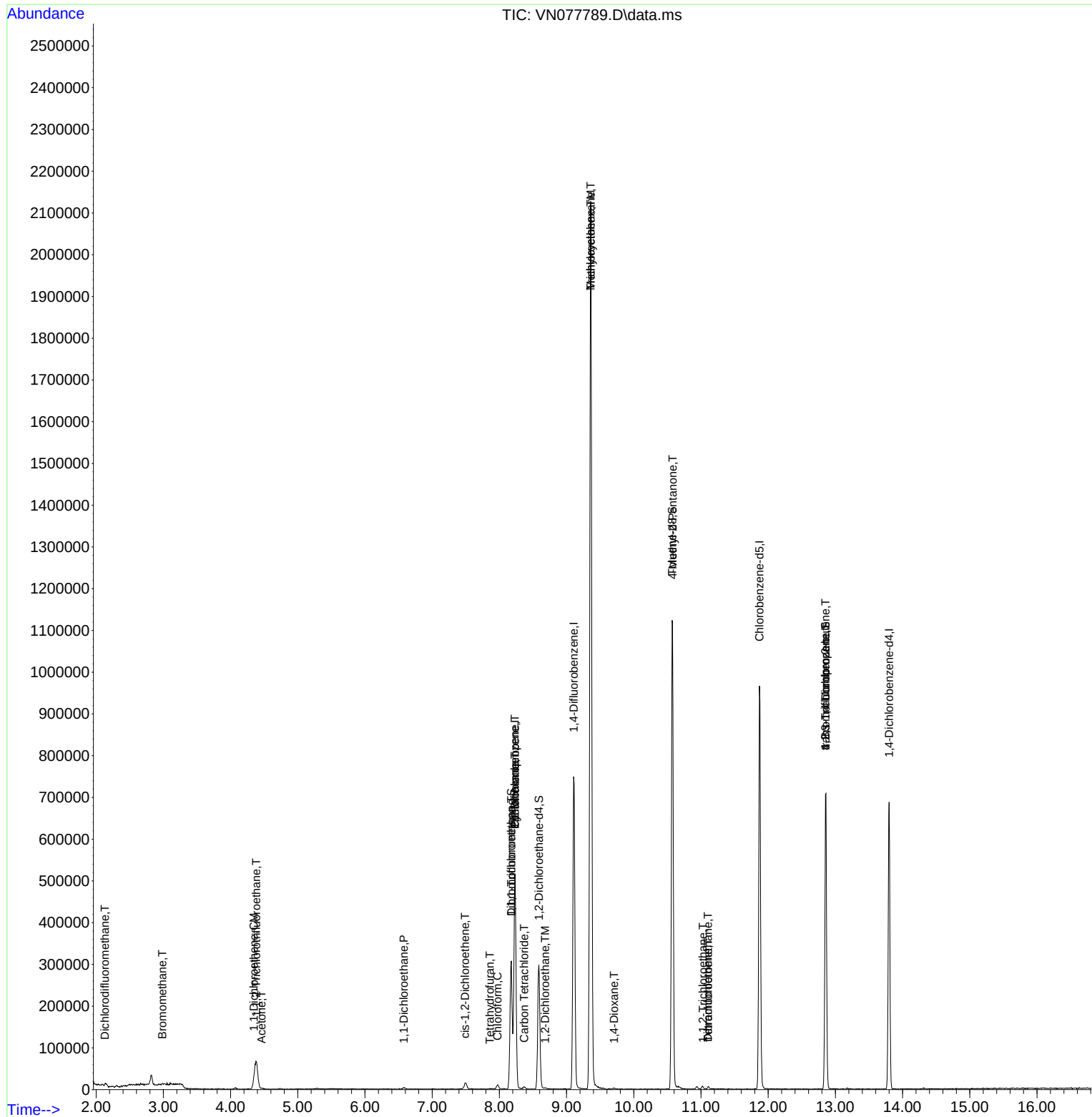
Internal Standards						
1) Pentafluorobenzene	8.230	168	369319	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	682776	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	584906	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	188447	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	252529	45.699	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	91.400%
35) Dibromofluoromethane	8.177	113	216998	48.738	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	97.480%
50) Toluene-d8	10.571	98	831559	48.523	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	97.040%
62) 4-Bromofluorobenzene	12.853	95	261021	43.126	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	86.260%
Target Compounds			Qvalue			
2) Dichlorodifluoromethane	2.130	85	4923	1.171	ug/l	84
3) Chloromethane	2.371	50	1760	Below Cal	#	76
5) Bromomethane	2.983	94	1398	0.357	ug/l #	54
9) 1,1,2-Trichlorotrifluo...	4.383	101	43519	10.648	ug/l	97
12) 1,1-Dichloroethene	4.348	96	9888	2.546	ug/l #	80
13) Acrolein	4.183	56	154	Below Cal	#	64
16) Acetone	4.459	43	2378	1.368	ug/l #	78
20) Methylene Chloride	5.277	84	470	Below Cal	#	42
24) 1,1-Dichloroethane	6.577	63	5324	0.650	ug/l #	81
27) cis-1,2-Dichloroethene	7.488	96	10431	1.994	ug/l	85
29) Tetrahydrofuran	7.859	42	613	0.344	ug/l #	26
30) Chloroform	7.971	83	9147	1.015	ug/l	85
31) Cyclohexane	8.230	56	9254	1.232	ug/l #	42
32) 1,1,1-Trichloroethane	8.177	97	2107	0.275	ug/l #	50
36) 1,1-Dichloropropene	8.230	75	30646	4.706	ug/l #	47
38) Carbon Tetrachloride	8.371	117	3702	0.563	ug/l #	84
39) Methylcyclohexane	9.359	83	9676	1.214	ug/l #	1
42) 1,2-Dichloroethane	8.682	62	1828	0.262	ug/l #	73
44) Trichloroethene	9.359	130	764662	157.145	ug/l	97
49) 1,4-Dioxane	9.706	88	1654	19.482	ug/l #	51
51) 4-Methyl-2-Pentanone	10.576	43	3495	0.620	ug/l #	1
55) 1,1,2-Trichloroethane	11.029	97	2401	0.505	ug/l #	79
60) Dibromochloromethane	11.106	129	1544	0.315	ug/l #	11
64) Tetrachloroethene	11.106	164	1300	0.318	ug/l #	69
76) 1,2,3-Trichloropropane	12.853	75	134727	28.548	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	134727	91.253	ug/l #	15

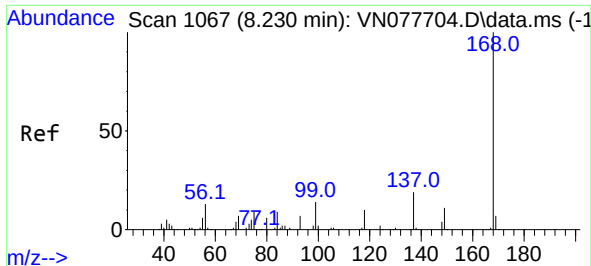
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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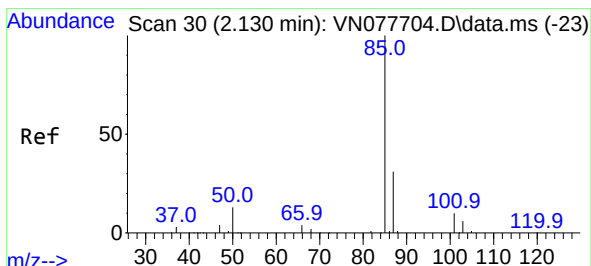
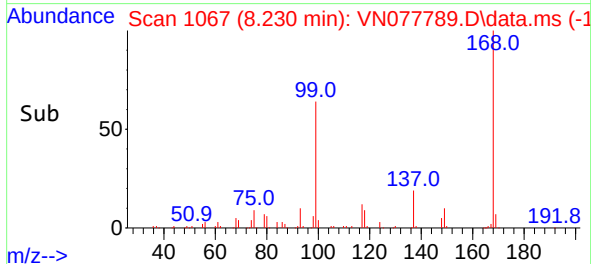
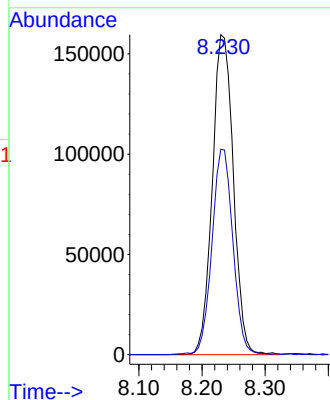
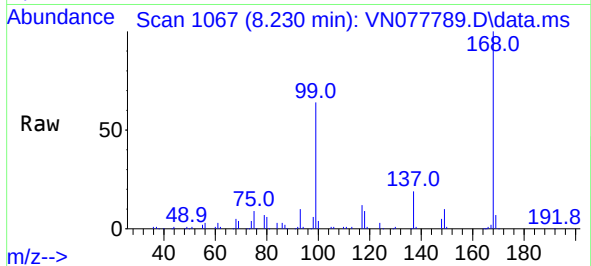




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN077789.D
Acq: 22 May 2023 15:05

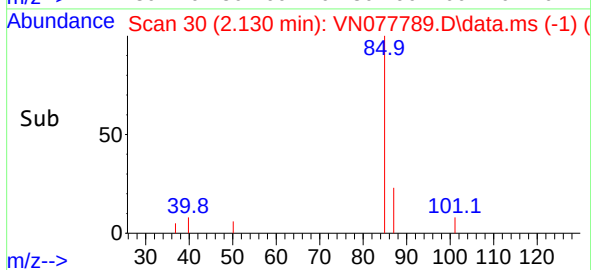
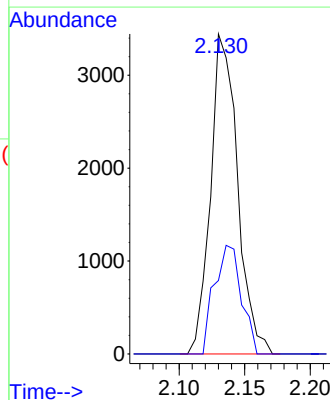
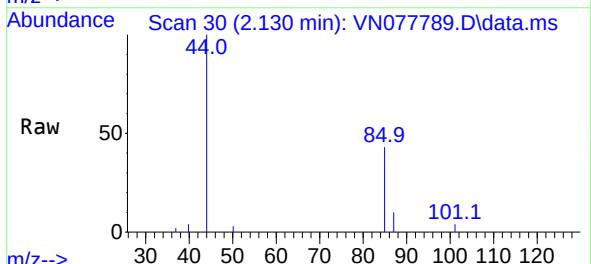
Instrument :
MSVOA_N
ClientSampleId :
RE132D5-20230517

Tgt Ion:168 Resp: 369319
Ion Ratio Lower Upper
168 100
99 64.1 53.0 79.6

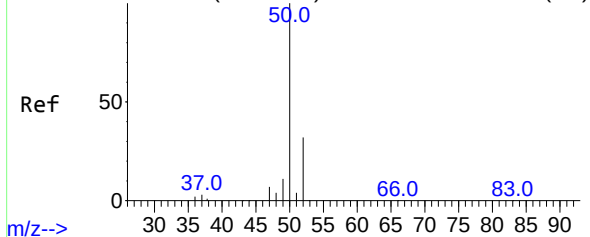


#2
Dichlorodifluoromethane
Concen: 1.171 ug/l
RT: 2.130 min Scan# 30
Delta R.T. -0.000 min
Lab File: VN077789.D
Acq: 22 May 2023 15:05

Tgt Ion: 85 Resp: 4923
Ion Ratio Lower Upper
85 100
87 22.9 15.8 47.4



Abundance Scan 70 (2.365 min): VN077704.D\data.ms (-62)



#3

Chloromethane

Concen: Below Cal

RT: 2.371 min Scan# 71

Delta R.T. 0.006 min

Lab File: VN077789.D

Acq: 22 May 2023 15:05

Instrument :

MSVOA_N

ClientSampleId :

RE132D5-20230517

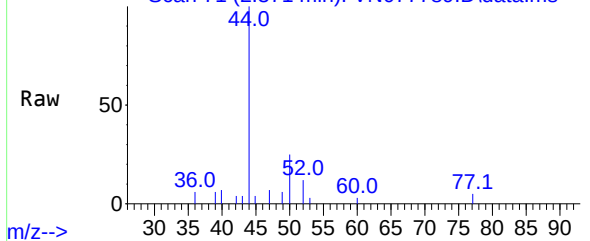
Tgt Ion: 50 Resp: 1760

Ion Ratio Lower Upper

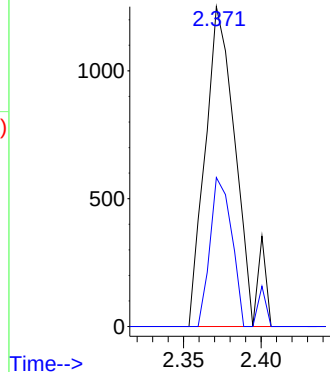
50 100

52 46.6 26.5 39.7#

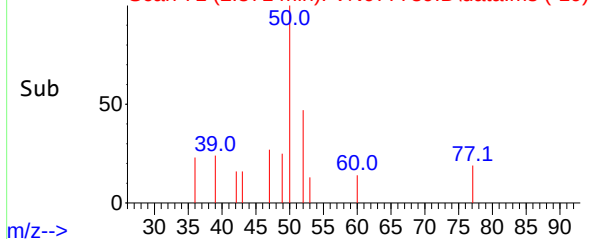
Abundance Scan 71 (2.371 min): VN077789.D\data.ms



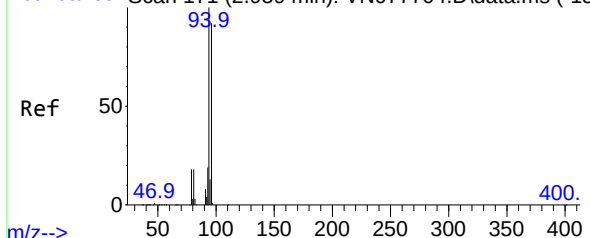
Abundance



Abundance Scan 71 (2.371 min): VN077789.D\data.ms (-19)



Abundance Scan 171 (2.959 min): VN077704.D\data.ms (-15)



#5

Bromomethane

Concen: 0.357 ug/l

RT: 2.983 min Scan# 175

Delta R.T. 0.036 min

Lab File: VN077789.D

Acq: 22 May 2023 15:05

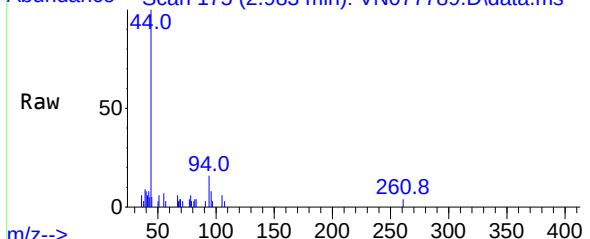
Tgt Ion: 94 Resp: 1398

Ion Ratio Lower Upper

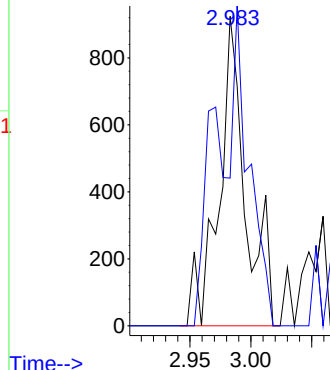
94 100

96 47.7 73.1 109.7#

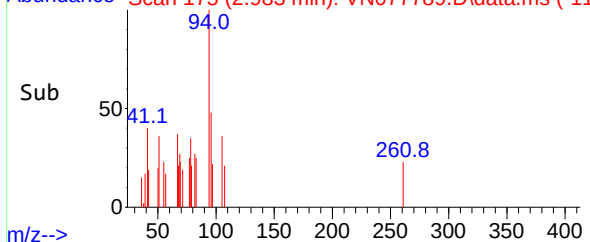
Abundance Scan 175 (2.983 min): VN077789.D\data.ms

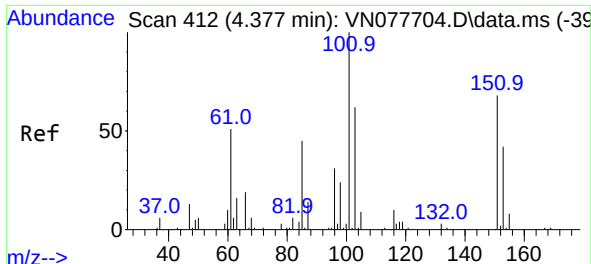


Abundance



Abundance Scan 175 (2.983 min): VN077789.D\data.ms (-11)

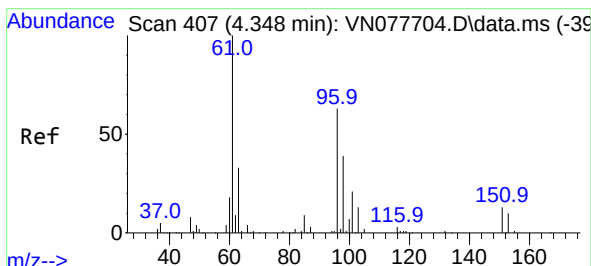
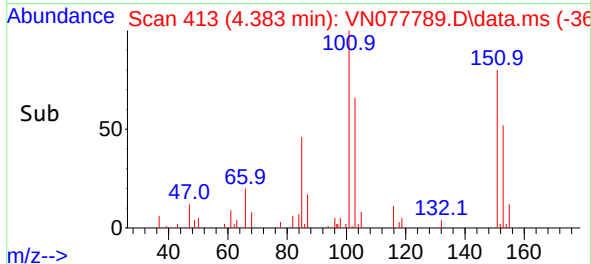
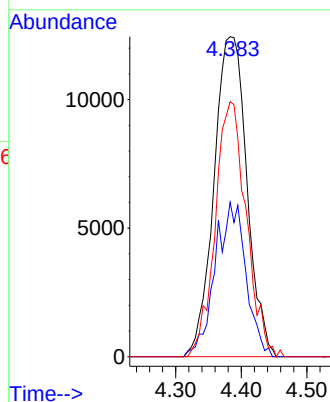
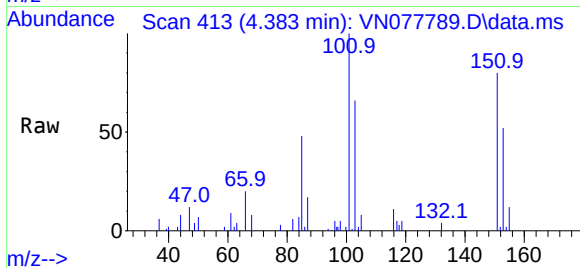




#9
1,1,2-Trichlorotrifluoroethane
Concen: 10.648 ug/l
RT: 4.383 min Scan# 412
Delta R.T. 0.006 min
Lab File: VN077789.D
Acq: 22 May 2023 15:05

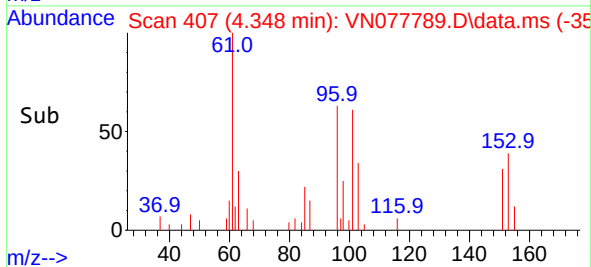
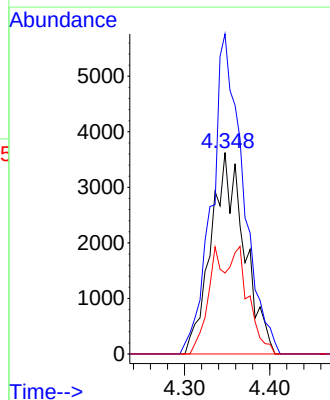
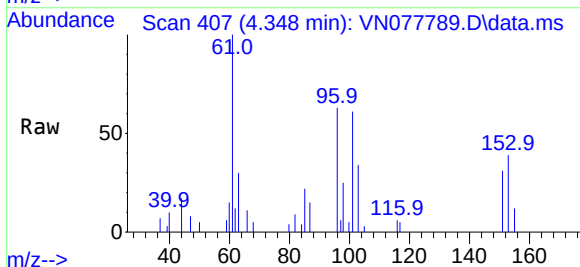
Instrument :
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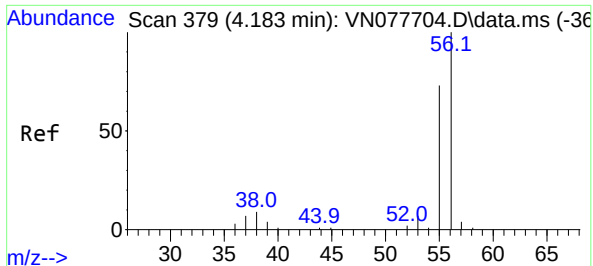
Tgt Ion:101 Resp: 43519
Ion Ratio Lower Upper
101 100
85 44.9 36.6 55.0
151 74.9 57.6 86.4



#12
1,1-Dichloroethene
Concen: 2.546 ug/l
RT: 4.348 min Scan# 407
Delta R.T. 0.000 min
Lab File: VN077789.D
Acq: 22 May 2023 15:05

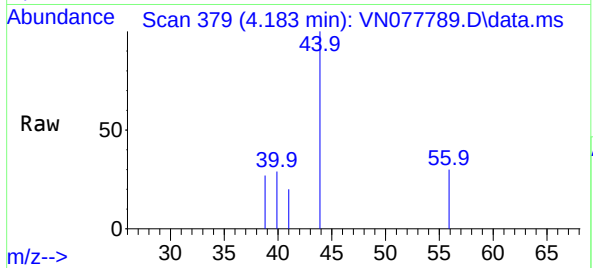
Tgt Ion: 96 Resp: 9888
Ion Ratio Lower Upper
96 100
61 158.8 112.7 169.1
98 40.2 51.2 76.8#



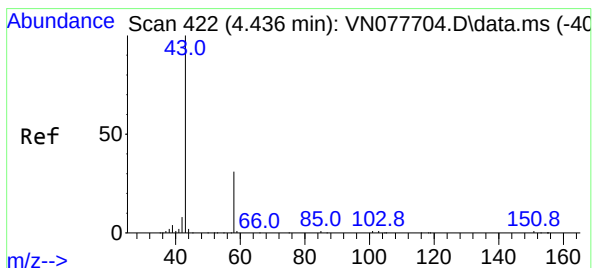
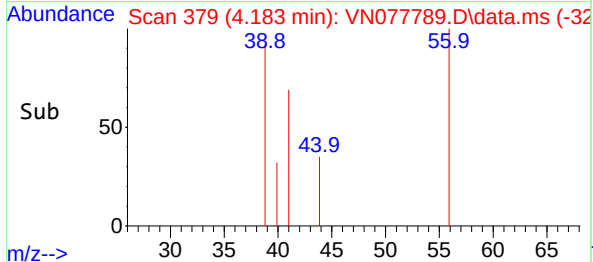
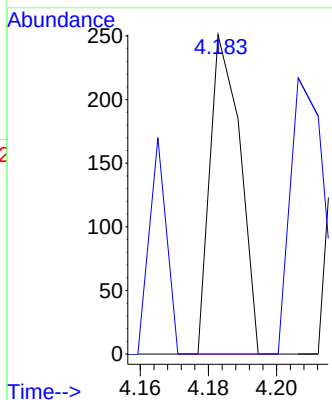


#13
Acrolein
Concen: Below Cal
RT: 4.183 min Scan# 31
Delta R.T. -0.006 min
Lab File: VN077789.D
Acq: 22 May 2023 15:05

Instrument :
MSVOA_N
ClientSampleId :
RE132D5-20230517

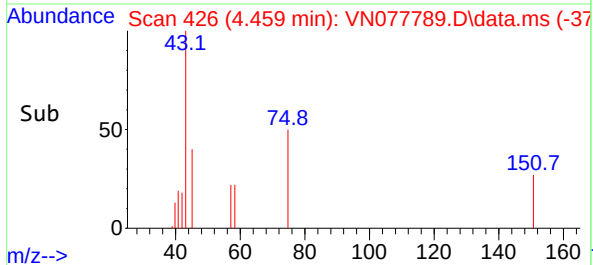
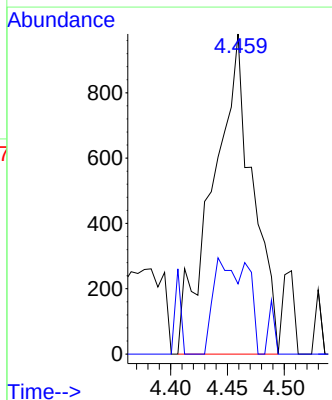
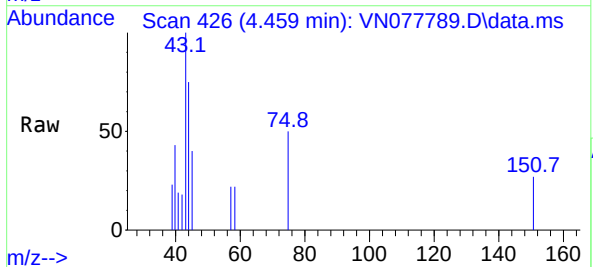


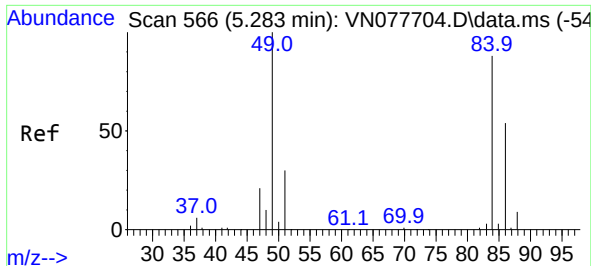
Tgt Ion: 56 Resp: 154
Ion Ratio Lower Upper
56 100
55 39.0 54.5 81.7#



#16
Acetone
Concen: 1.368 ug/l
RT: 4.459 min Scan# 426
Delta R.T. 0.029 min
Lab File: VN077789.D
Acq: 22 May 2023 15:05

Tgt Ion: 43 Resp: 2378
Ion Ratio Lower Upper
43 100
58 21.9 28.0 42.0#

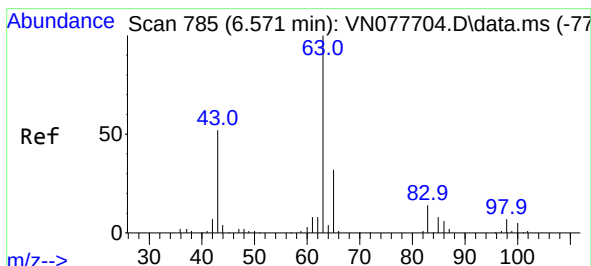
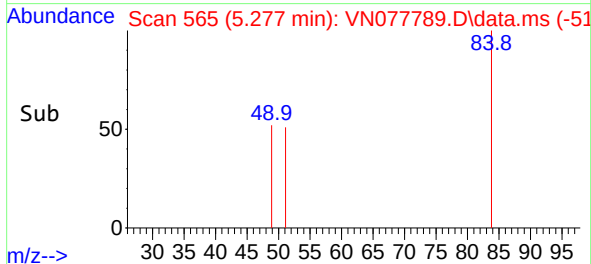
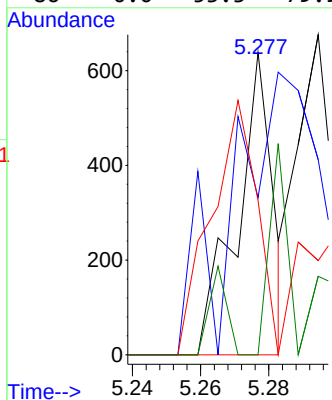
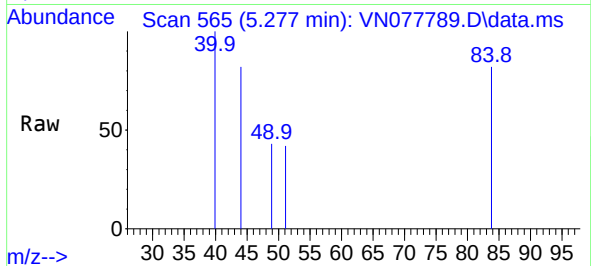




#20
Methylene Chloride
Concen: Below Cal
RT: 5.277 min Scan# 501
Delta R.T. -0.006 min
Lab File: VN077789.D
Acq: 22 May 2023 15:05

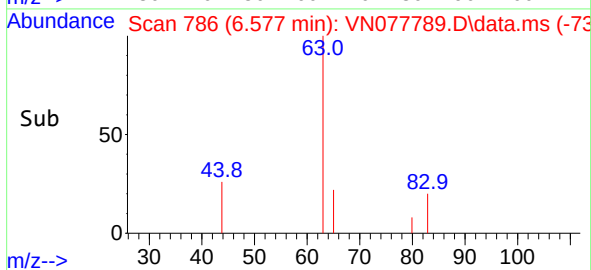
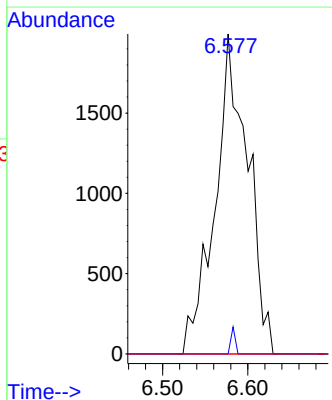
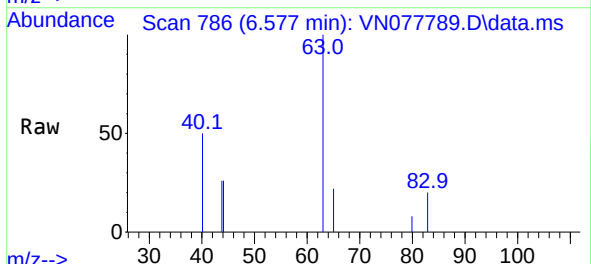
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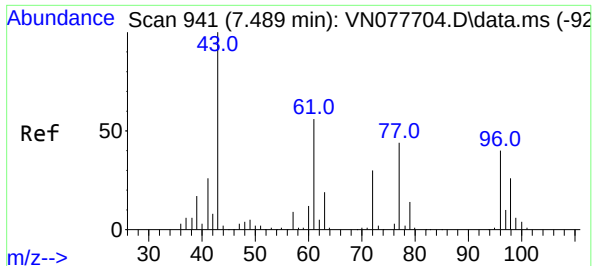
Tgt Ion: 84 Resp: 470
Ion Ratio Lower Upper
84 100
49 52.0 79.7 119.5#
51 51.0 25.2 37.8#
86 0.0 53.3 79.9#



#24
1,1-Dichloroethane
Concen: 0.650 ug/l
RT: 6.577 min Scan# 786
Delta R.T. 0.006 min
Lab File: VN077789.D
Acq: 22 May 2023 15:05

Tgt Ion: 63 Resp: 5324
Ion Ratio Lower Upper
63 100
98 0.0 3.9 11.7#
100 0.0 2.5 7.4#

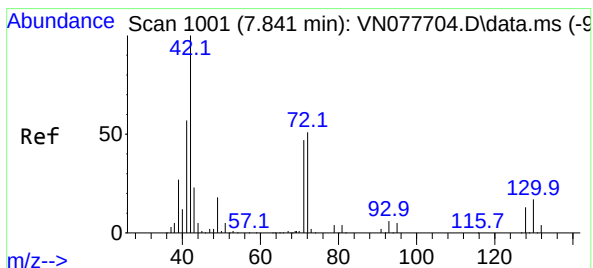
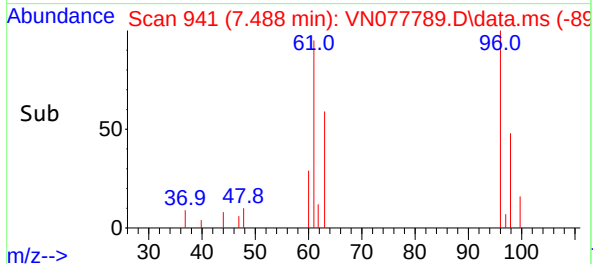
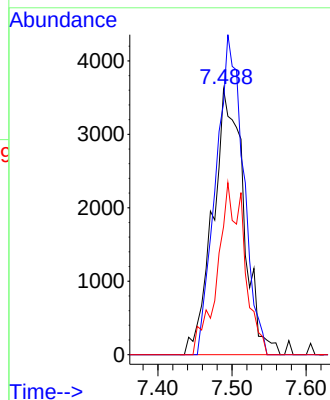
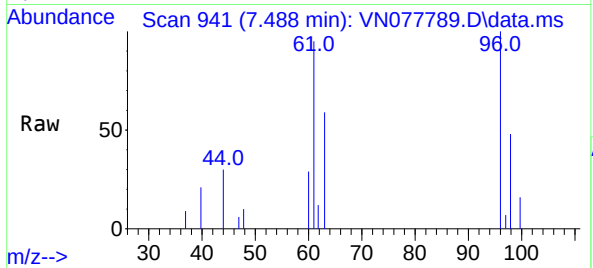




#27
 cis-1,2-Dichloroethene
 Concen: 1.994 ug/l
 RT: 7.488 min Scan# 941
 Delta R.T. 0.000 min
 Lab File: VN077789.D
 Acq: 22 May 2023 15:05

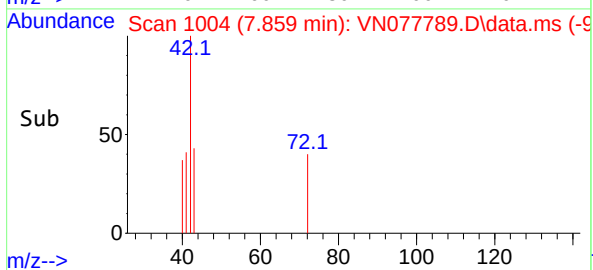
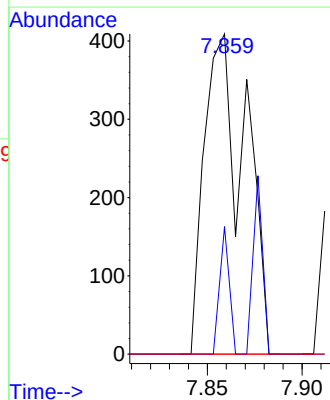
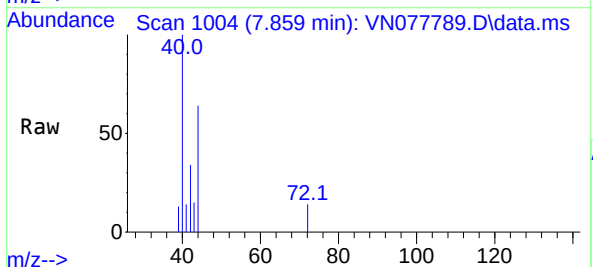
Instrument :
 MSVOA_N
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 RE132D5-20230517

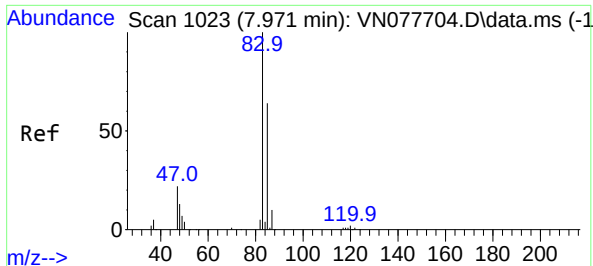
Tgt Ion: 96 Resp: 10431
 Ion Ratio Lower Upper
 96 100
 61 107.4 0.0 255.2
 98 56.6 0.0 128.8



#29
 Tetrahydrofuran
 Concen: 0.344 ug/l
 RT: 7.859 min Scan# 1004
 Delta R.T. 0.018 min
 Lab File: VN077789.D
 Acq: 22 May 2023 15:05

Tgt Ion: 42 Resp: 613
 Ion Ratio Lower Upper
 42 100
 72 9.5 49.8 74.6#
 71 0.0 47.4 71.2#





#30

Chloroform

Concen: 1.015 ug/l

RT: 7.971 min Scan# 1023

Delta R.T. -0.000 min

Lab File: VN077789.D

Acq: 22 May 2023 15:05

Instrument :

MSVOA_N

ClientSampleId :

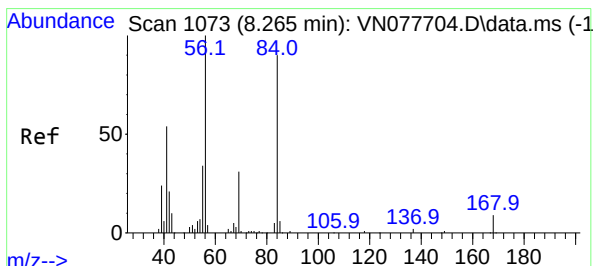
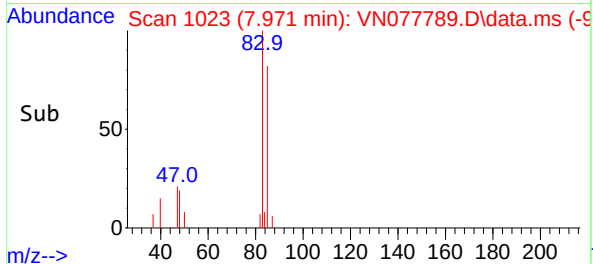
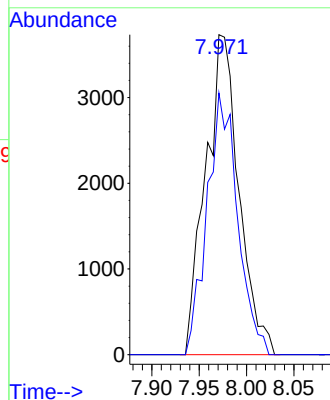
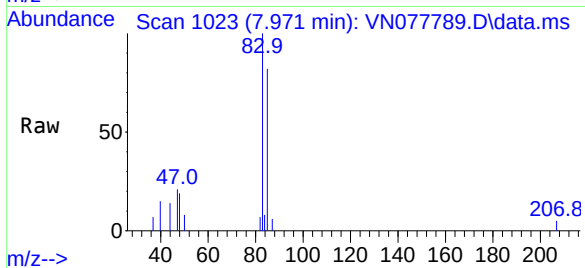
RE132D5-20230517

Tgt Ion: 83 Resp: 9147

Ion Ratio Lower Upper

83 100

85 81.8 55.4 83.0



#31

Cyclohexane

Concen: 1.232 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.035 min

Lab File: VN077789.D

Acq: 22 May 2023 15:05

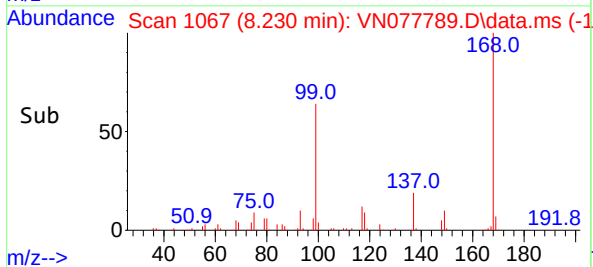
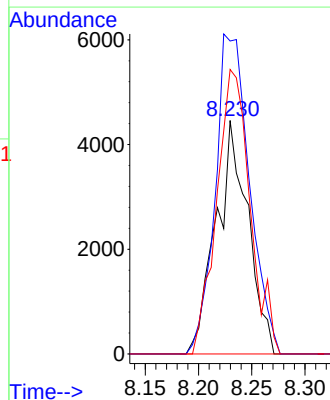
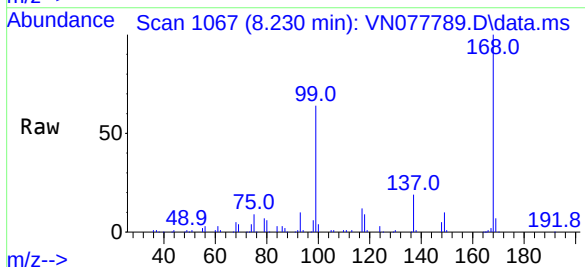
Tgt Ion: 56 Resp: 9254

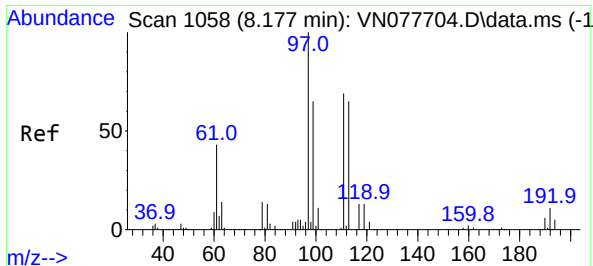
Ion Ratio Lower Upper

56 100

69 134.1 26.8 40.2#

84 121.9 81.8 122.6

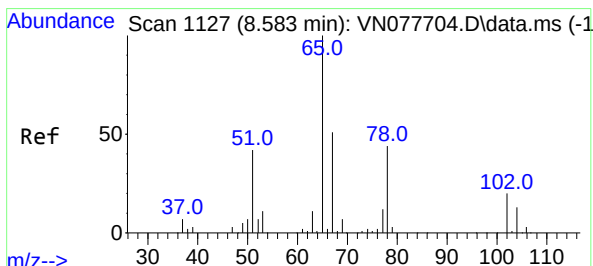
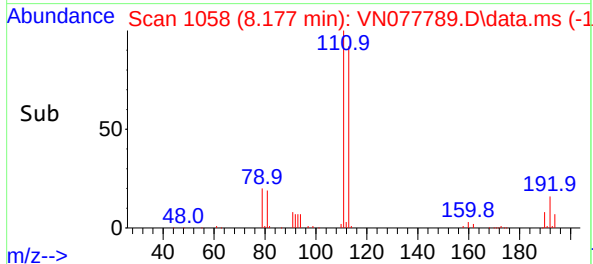
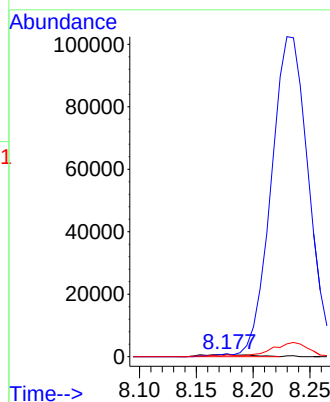
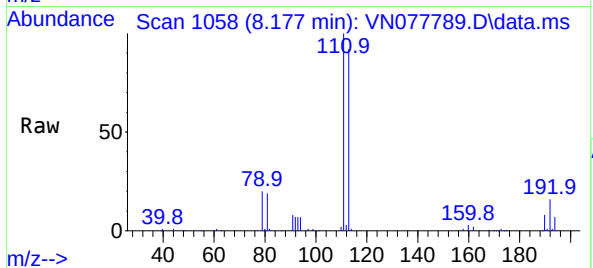




#32
1,1,1-Trichloroethane
Concen: 0.275 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN077789.D
Acq: 22 May 2023 15:05

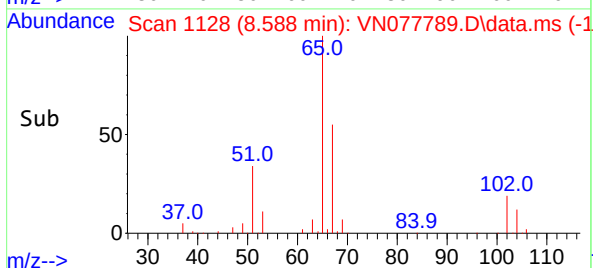
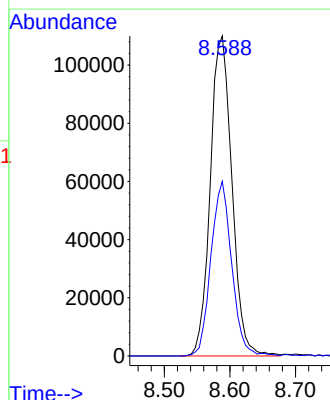
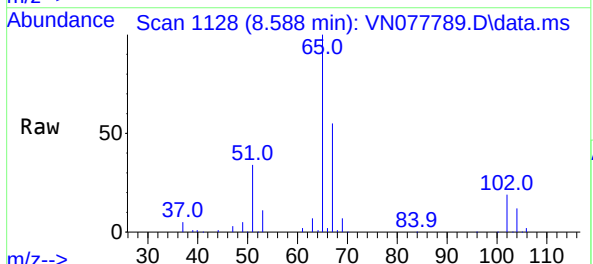
Instrument :
MSVOA_N
ClientSampleId :
RE132D5-20230517

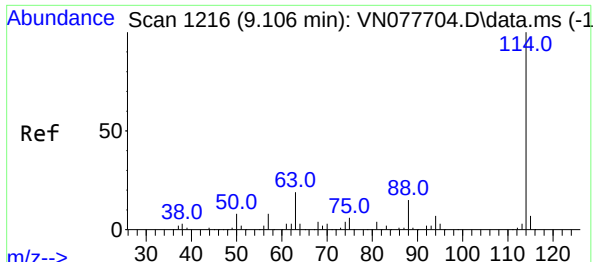
Tgt Ion: 97 Resp: 2107
Ion Ratio Lower Upper
97 100
99 0.0 50.3 75.5#
61 39.6 34.7 52.1



#33
1,2-Dichloroethane-d4
Concen: 45.699 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN077789.D
Acq: 22 May 2023 15:05

Tgt Ion: 65 Resp: 252529
Ion Ratio Lower Upper
65 100
67 52.4 0.0 106.6

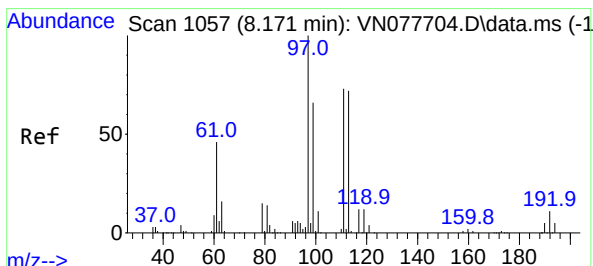
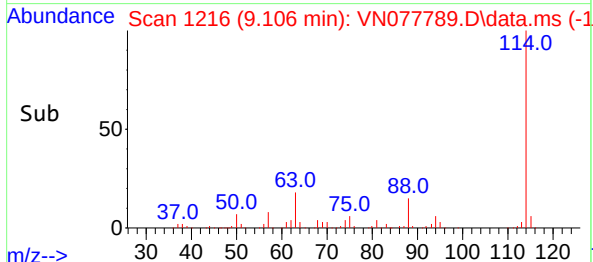
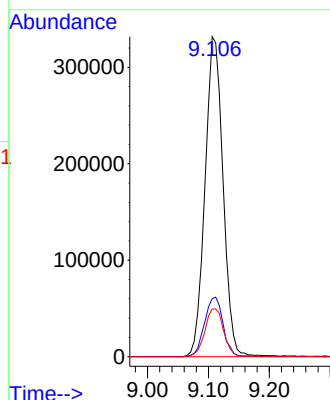
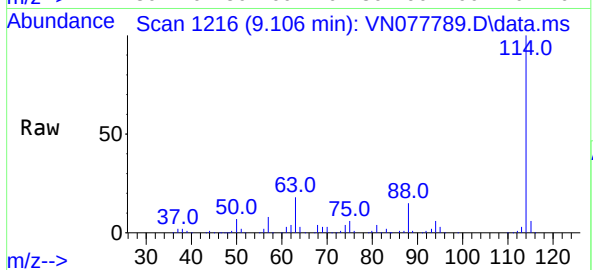




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN077789.D
Acq: 22 May 2023 15:05

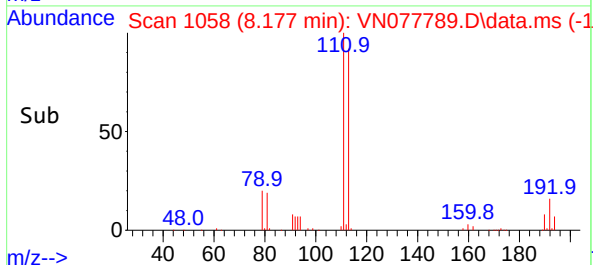
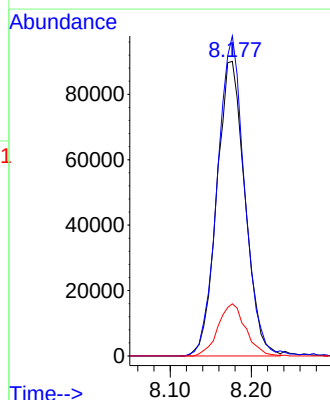
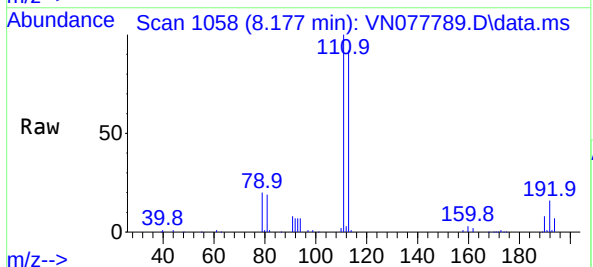
Instrument :
MSVOA_N
ClientSampleId :
RE132D5-20230517

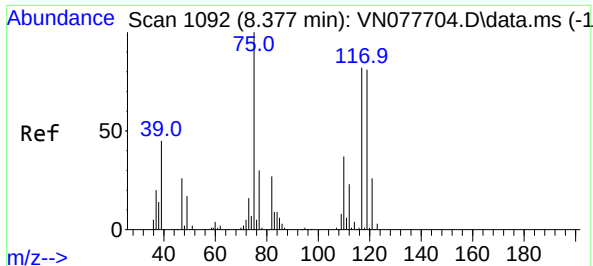
Tgt Ion:114 Resp: 682776
Ion Ratio Lower Upper
114 100
63 18.2 0.0 36.4
88 14.9 0.0 30.6



#35
Dibromofluoromethane
Concen: 48.738 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN077789.D
Acq: 22 May 2023 15:05

Tgt Ion:113 Resp: 216998
Ion Ratio Lower Upper
113 100
111 105.0 82.6 123.8
192 17.3 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.706 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN077789.D

Acq: 22 May 2023 15:05

Instrument :

MSVOA_N

ClientSampleId :

RE132D5-20230517

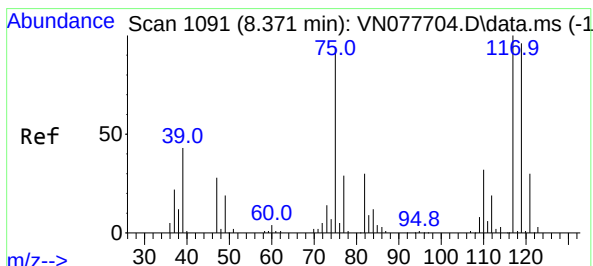
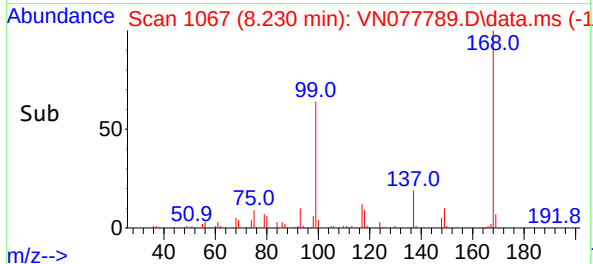
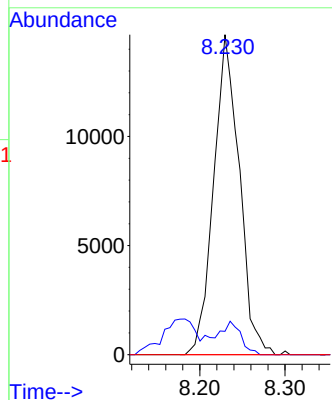
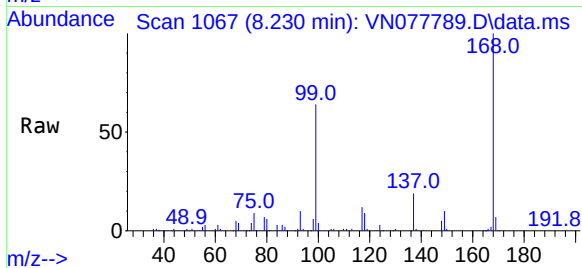
Tgt Ion: 75 Resp: 30646

Ion Ratio Lower Upper

75 100

110 7.8 19.1 57.3#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 0.563 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. -0.000 min

Lab File: VN077789.D

Acq: 22 May 2023 15:05

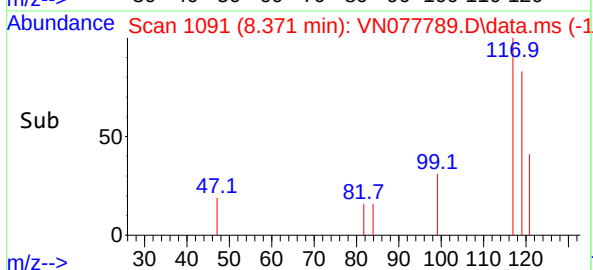
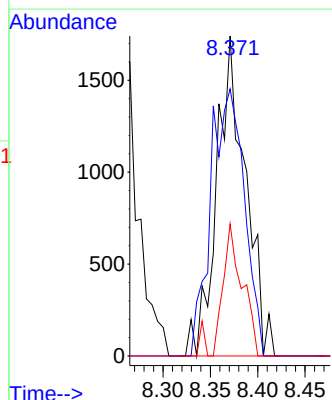
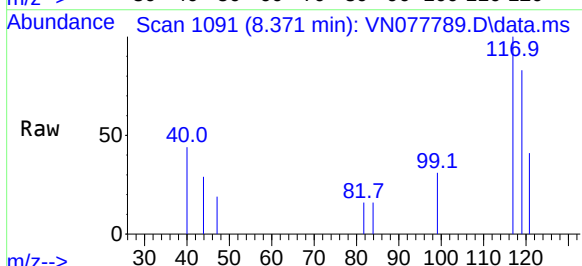
Tgt Ion: 117 Resp: 3702

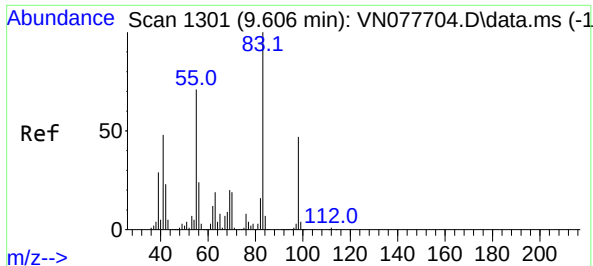
Ion Ratio Lower Upper

117 100

119 83.5 77.3 115.9

121 41.3 23.3 34.9#





#39

Methylcyclohexane

Concen: 1.214 ug/l

RT: 9.359 min Scan# 11

Delta R.T. -0.247 min

Lab File: VN077789.D

Acq: 22 May 2023 15:05

Instrument :

MSVOA_N

ClientSampleId :

RE132D5-20230517

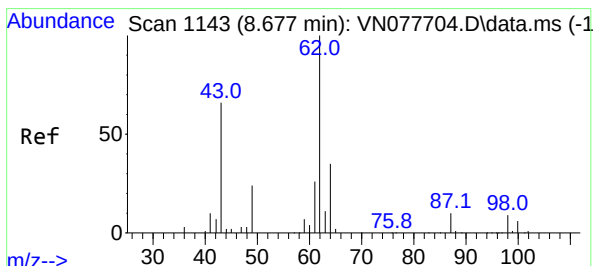
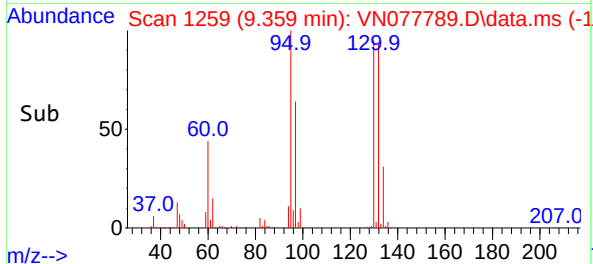
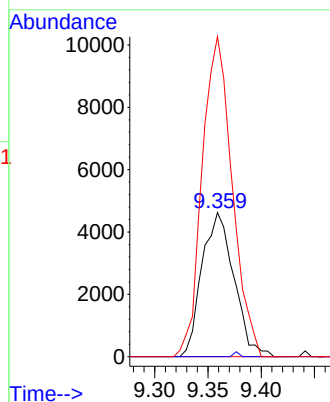
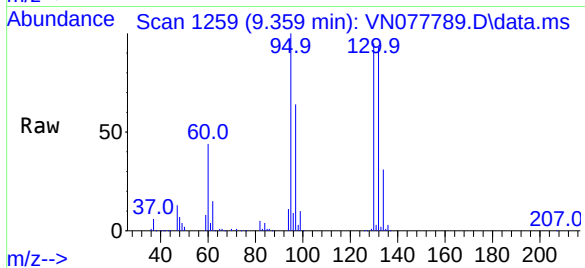
Tgt Ion: 83 Resp: 9676

Ion Ratio Lower Upper

83 100

55 0.0 49.1 73.7#

98 222.0 40.6 61.0#



#42

1,2-Dichloroethane

Concen: 0.262 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. 0.005 min

Lab File: VN077789.D

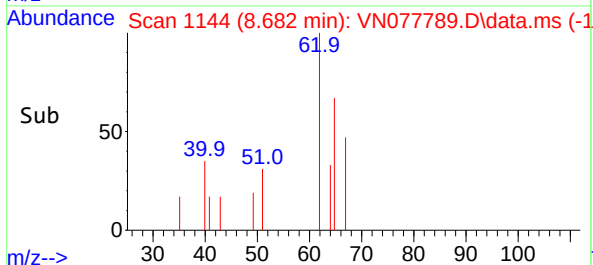
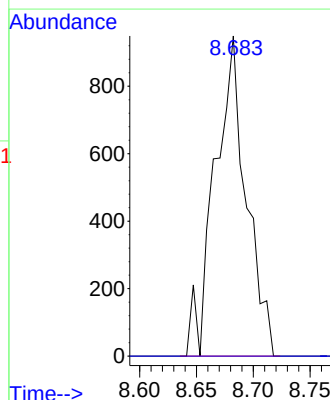
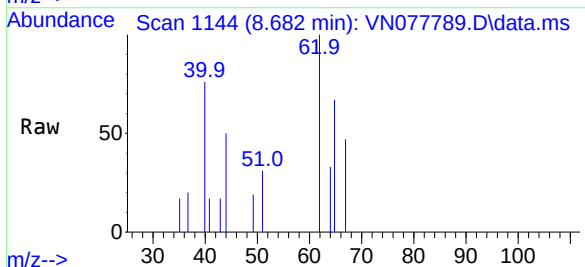
Acq: 22 May 2023 15:05

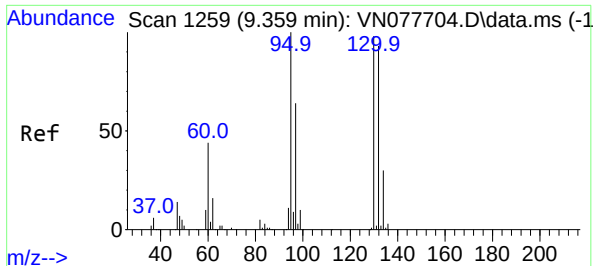
Tgt Ion: 62 Resp: 1828

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8

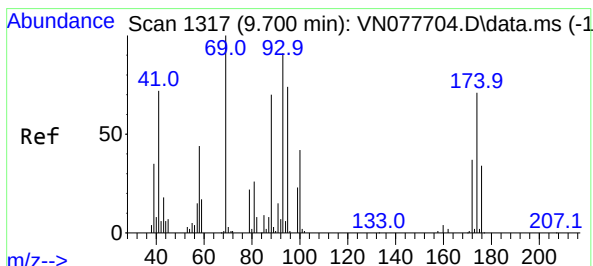
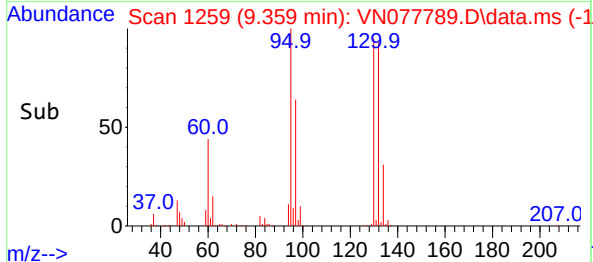
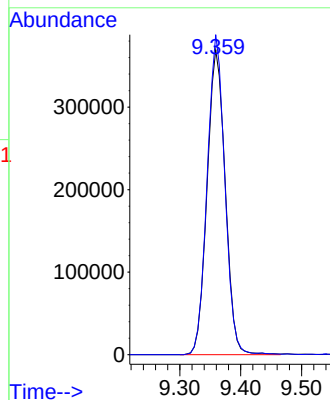
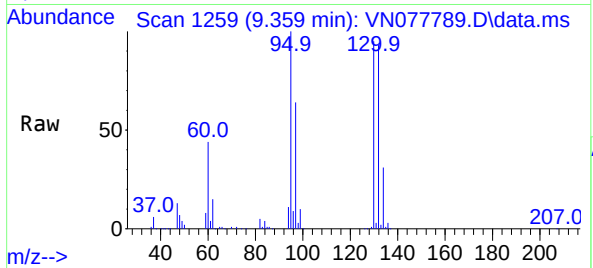




#44
Trichloroethene
Concen: 157.145 ug/l
RT: 9.359 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN077789.D
Acq: 22 May 2023 15:05

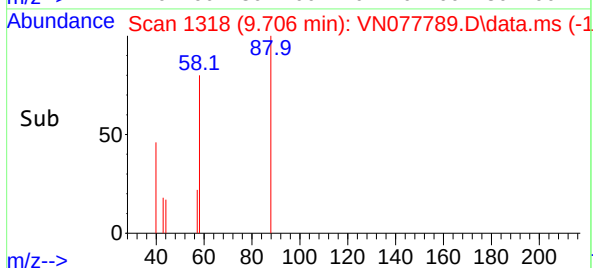
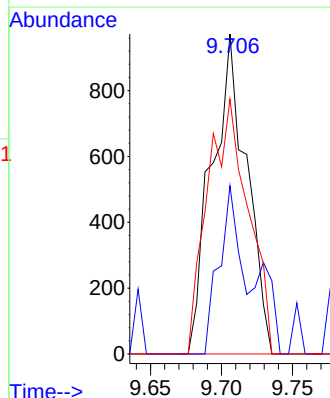
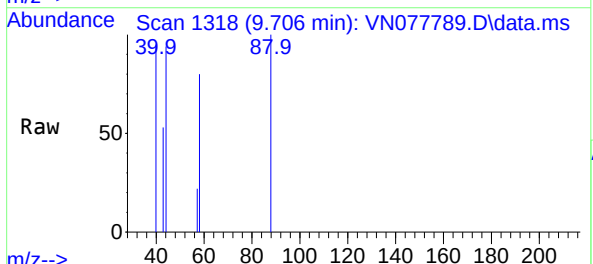
Instrument :
MSVOA_N
ClientSampleId :
RE132D5-20230517

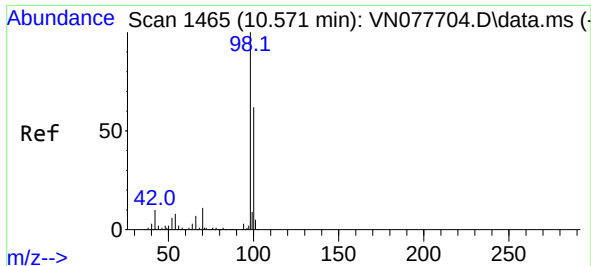
Tgt Ion:130 Resp: 764662
Ion Ratio Lower Upper
130 100
95 105.0 0.0 204.6



#49
1,4-Dioxane
Concen: 19.482 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. 0.012 min
Lab File: VN077789.D
Acq: 22 May 2023 15:05

Tgt Ion: 88 Resp: 1654
Ion Ratio Lower Upper
88 100
43 47.5 17.0 25.6#
58 93.2 47.0 70.4#

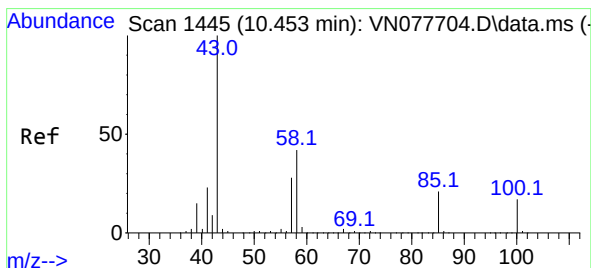
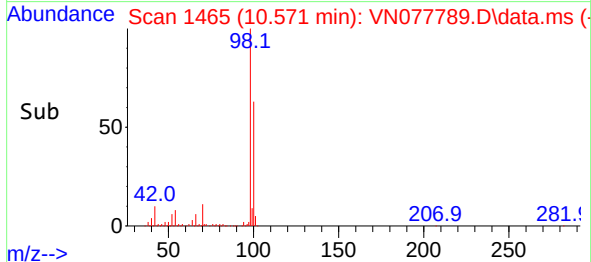
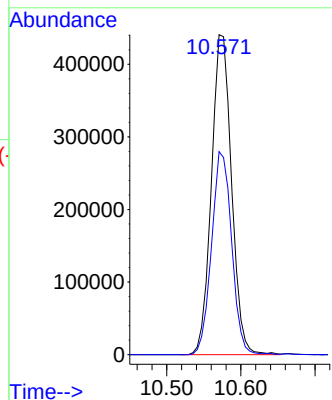
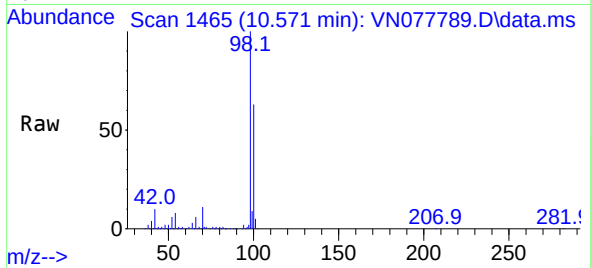




#50
Toluene-d8
Concen: 48.523 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN077789.D
Acq: 22 May 2023 15:05

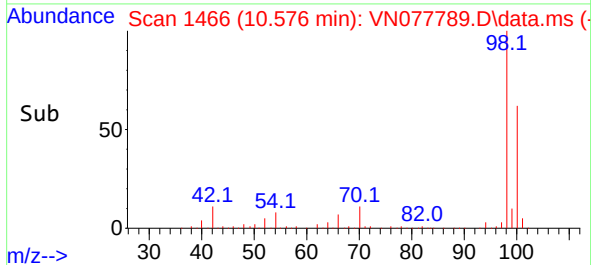
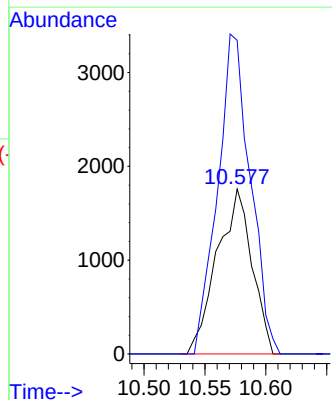
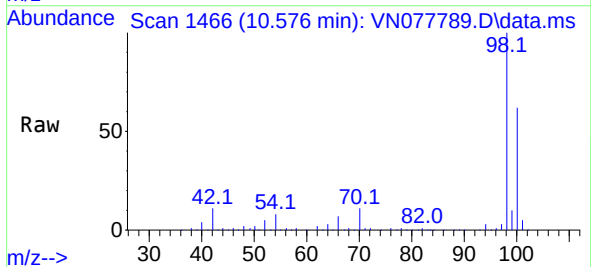
Instrument :
MSVOA_N
ClientSampleId :
RE132D5-20230517

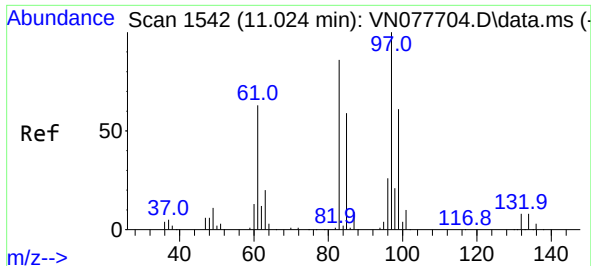
Tgt Ion: 98 Resp: 831559
Ion Ratio Lower Upper
98 100
100 63.4 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 0.620 ug/l
RT: 10.576 min Scan# 1466
Delta R.T. 0.130 min
Lab File: VN077789.D
Acq: 22 May 2023 15:05

Tgt Ion: 43 Resp: 3495
Ion Ratio Lower Upper
43 100
58 182.4 36.6 54.8#



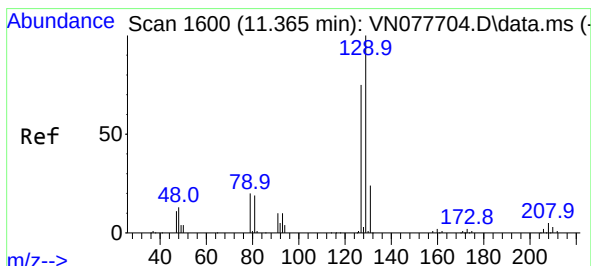
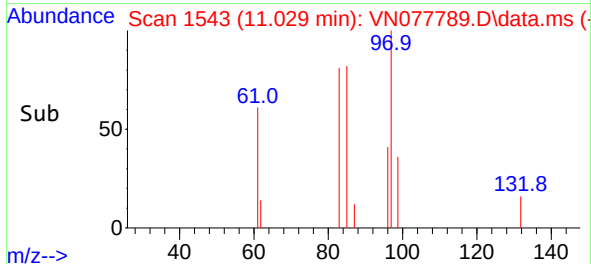
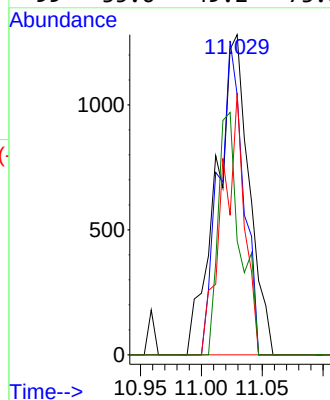
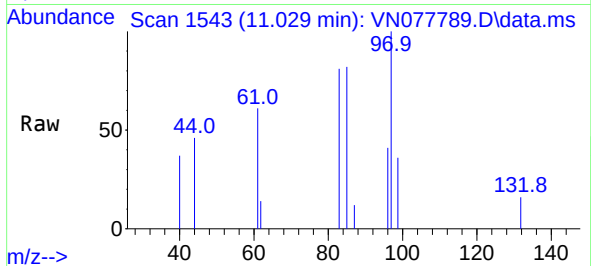


#55
1,1,2-Trichloroethane
Concen: 0.505 ug/l
RT: 11.029 min Scan# 1542
Delta R.T. 0.006 min
Lab File: VN077789.D
Acq: 22 May 2023 15:05

Instrument :
MSVOA_N
ClientSampleId :
RE132D5-20230517

Tgt Ion: 97 Resp: 2401

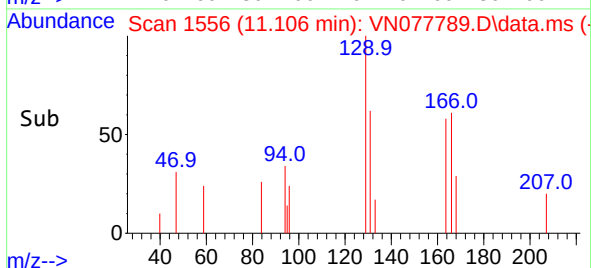
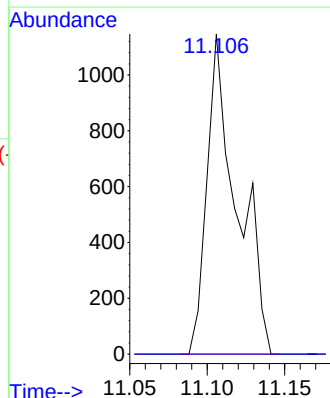
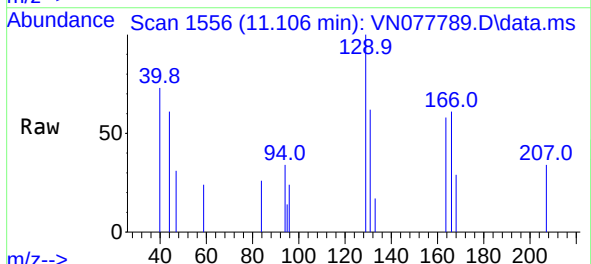
Ion	Ratio	Lower	Upper
97	100		
83	81.2	65.1	97.7
85	81.8	43.4	65.2#
99	35.6	49.2	73.8#

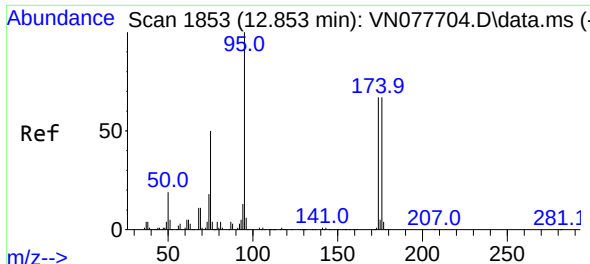


#60
Dibromochloromethane
Concen: 0.315 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.259 min
Lab File: VN077789.D
Acq: 22 May 2023 15:05

Tgt Ion: 129 Resp: 1544

Ion	Ratio	Lower	Upper
129	100		
127	0.0	38.6	116.0#

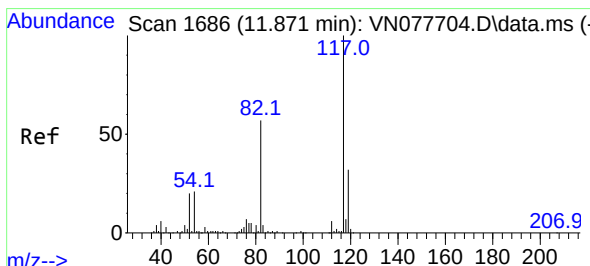
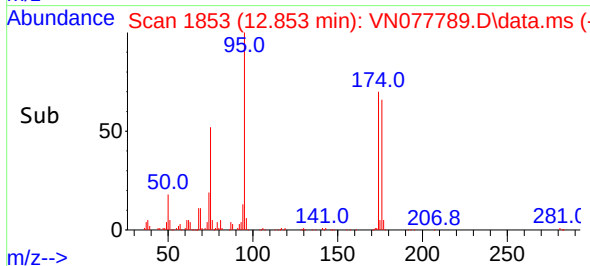
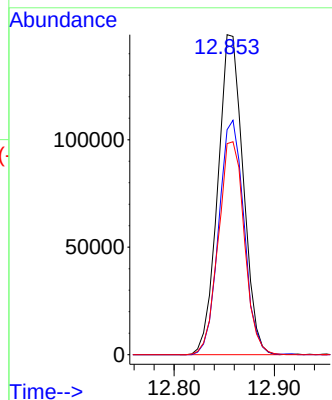
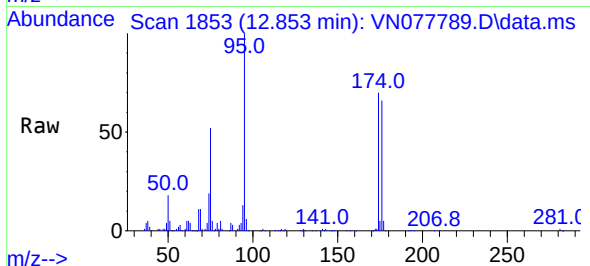




#62
4-Bromofluorobenzene
Concen: 43.126 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN077789.D
Acq: 22 May 2023 15:05

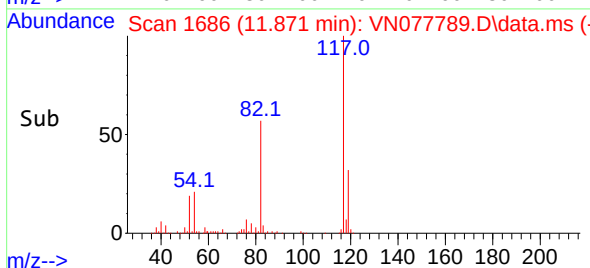
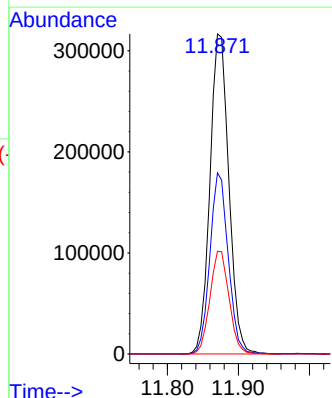
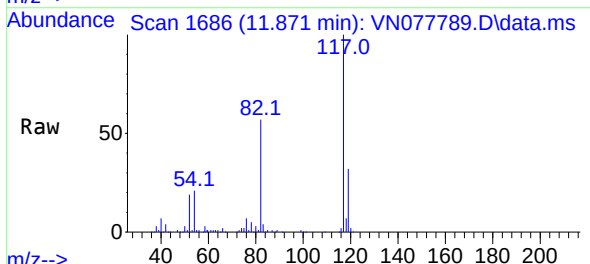
Instrument :
MSVOA_N
ClientSampleId :
RE132D5-20230517

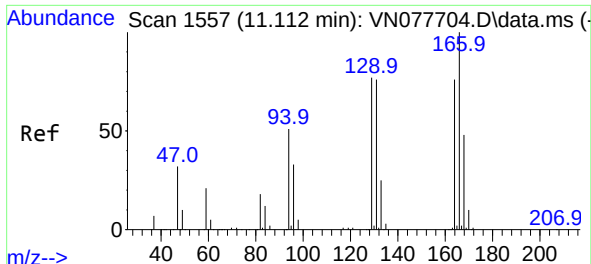
Tgt Ion:	95	Resp:	261021
Ion	Ratio	Lower	Upper
95	100		
174	72.8	0.0	143.8
176	68.2	0.0	135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.001 min
Lab File: VN077789.D
Acq: 22 May 2023 15:05

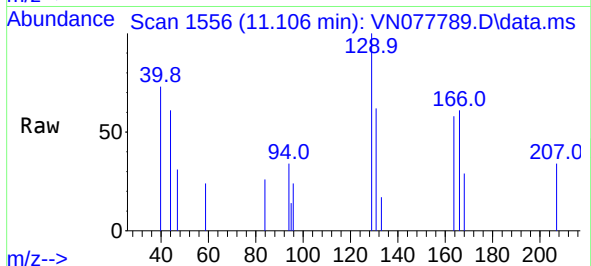
Tgt Ion:	117	Resp:	584906
Ion	Ratio	Lower	Upper
117	100		
82	56.6	44.0	66.0
119	32.1	25.6	38.4



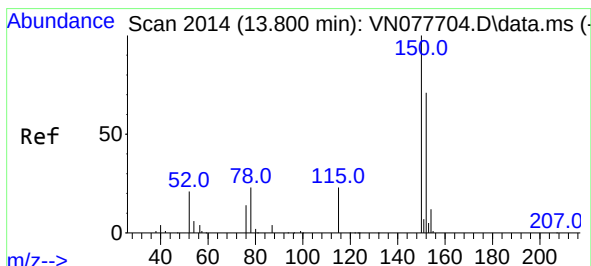
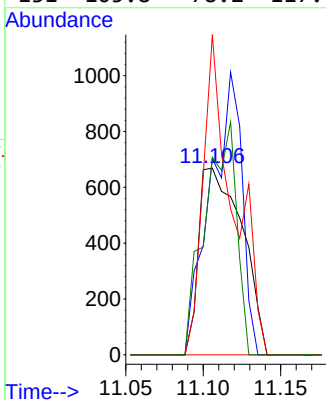
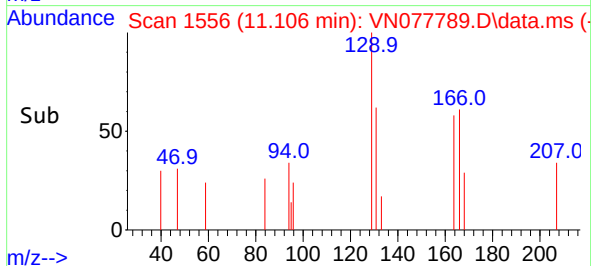


#64
Tetrachloroethene
Concen: 0.318 ug/l
RT: 11.106 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN077789.D
Acq: 22 May 2023 15:05

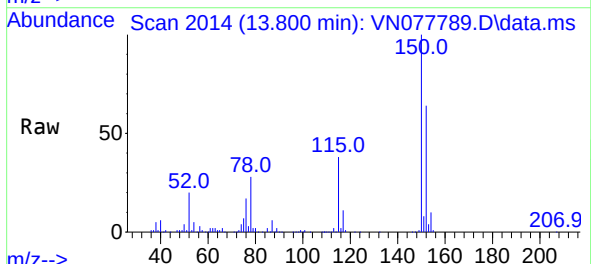
Instrument :
MSVOA_N
ClientSampleId :
RE132D5-20230517



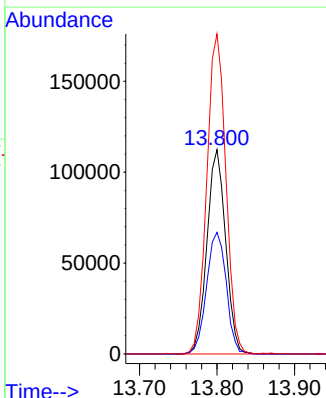
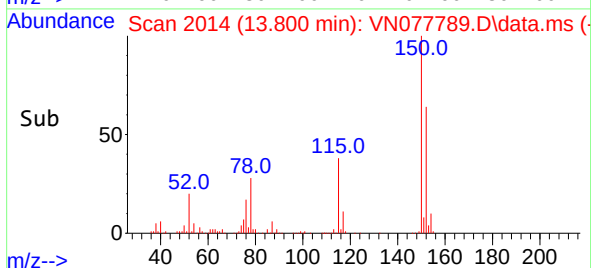
Tgt Ion:164 Resp: 1300
Ion Ratio Lower Upper
164 100
166 105.1 101.4 152.0
129 171.4 82.4 123.6#
131 105.8 78.2 117.4

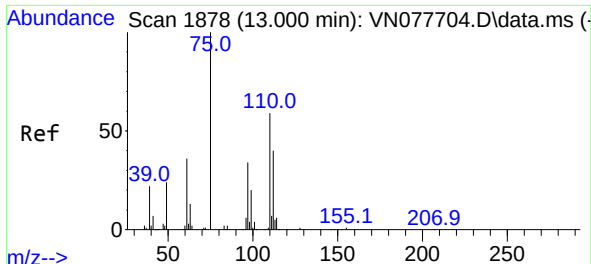


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. -0.000 min
Lab File: VN077789.D
Acq: 22 May 2023 15:05



Tgt Ion:152 Resp: 188447
Ion Ratio Lower Upper
152 100
115 62.6 32.3 96.8
150 159.2 0.0 355.8

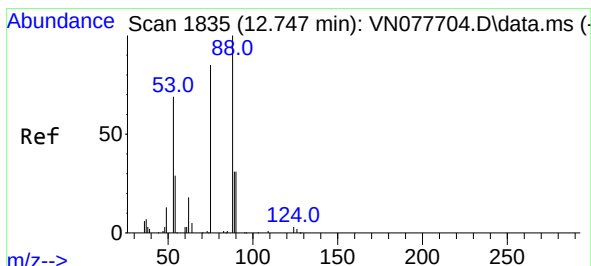
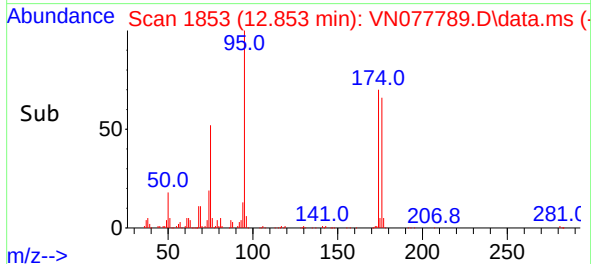
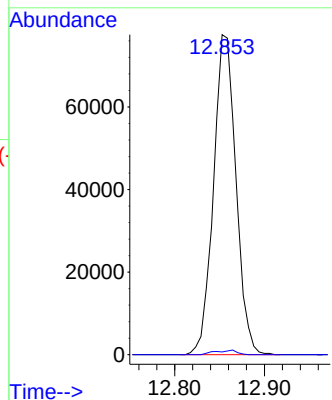
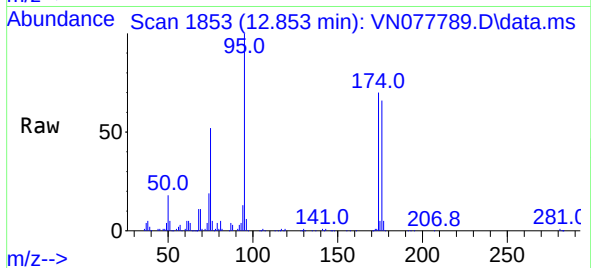




#76
1,2,3-Trichloropropane
Concen: 28.548 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN077789.D
Acq: 22 May 2023 15:05

Instrument :
MSVOA_N
ClientSampleId :
RE132D5-20230517

Tgt Ion: 75 Resp: 134727
Ion Ratio Lower Upper
75 100
77 1.4 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 91.253 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN077789.D
Acq: 22 May 2023 15:05

Tgt Ion: 75 Resp: 134727
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#

