

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011625\
 Data File : VN085470.D
 Acq On : 16 Jan 2025 15:22
 Operator : JC\MD
 Sample : Q1069-02RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RW7B-CARBON-20250109

Quant Time: Jan 17 01:05:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

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

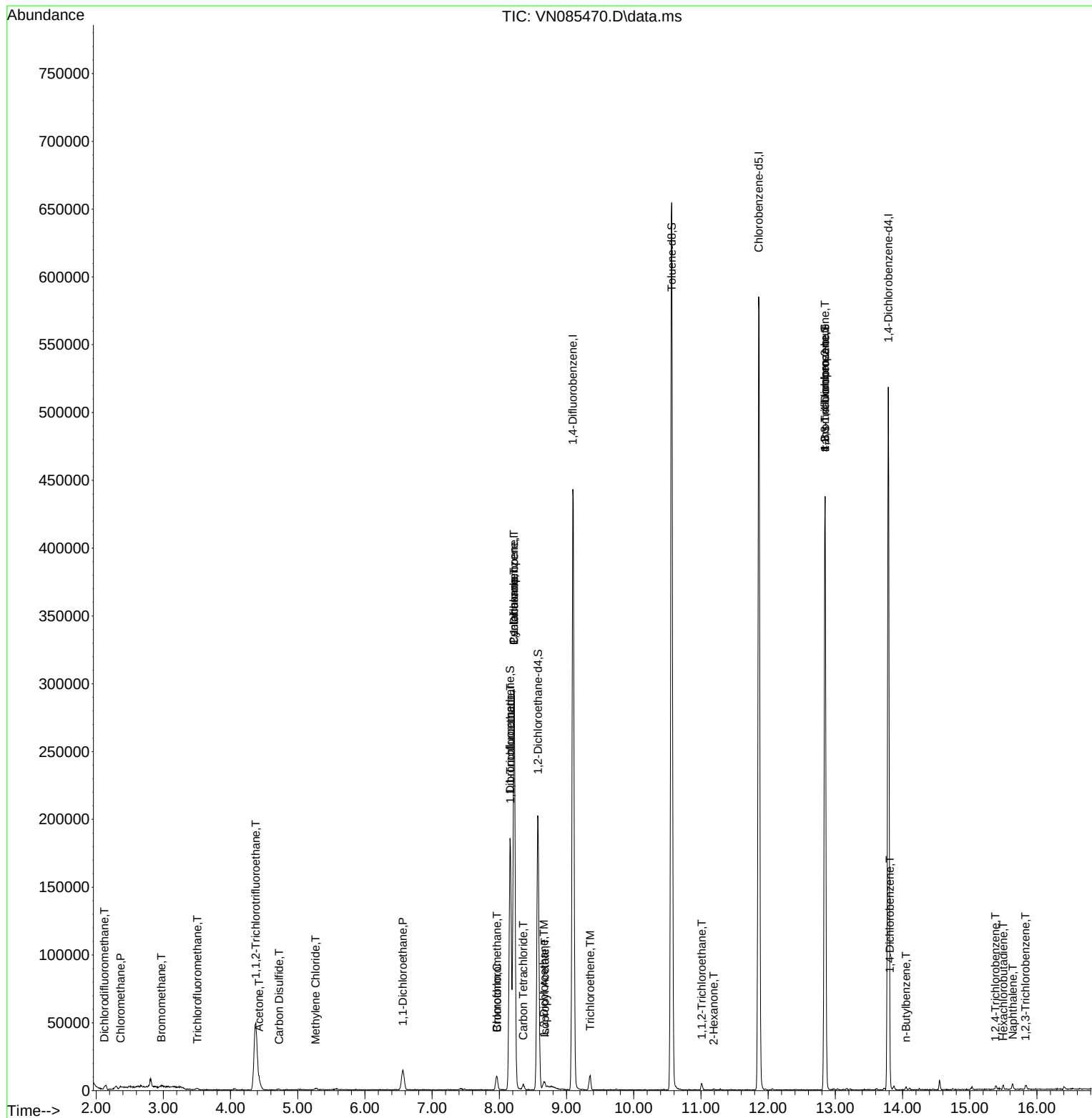
Internal Standards						
1) Pentafluorobenzene	8.218	168	198665	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	358567	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	314710	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	128541	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	172160	53.685	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 107.360%	
35) Dibromofluoromethane	8.159	113	125899	50.611	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 101.220%	
50) Toluene-d8	10.565	98	443352	50.163	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 100.320%	
62) 4-Bromofluorobenzene	12.847	95	148587	49.146	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 98.300%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	2150	0.799	ug/l	88
3) Chloromethane	2.365	50	717	0.246	ug/l #	41
5) Bromomethane	2.971	94	1006	0.569	ug/l	97
7) Trichlorofluoromethane	3.507	101	1371	0.323	ug/l	91
9) 1,1,2-Trichlorotrifluo...	4.377	101	35395	14.795	ug/l	99
16) Acetone	4.424	43	13081	12.624	ug/l	98
17) Carbon Disulfide	4.724	76	1538	0.234	ug/l #	76
20) Methylene Chloride	5.265	84	589	0.230	ug/l #	18
24) 1,1-Dichloroethane	6.565	63	21254	4.539	ug/l	99
28) Bromochloromethane	7.965	49	842	0.387	ug/l #	18
30) Chloroform	7.965	83	9847	2.035	ug/l	100
31) Cyclohexane	8.218	56	5836	1.434	ug/l #	13
32) 1,1,1-Trichloroethane	8.165	97	3213	0.757	ug/l #	56
36) 1,1-Dichloropropene	8.218	75	18385	5.266	ug/l #	51
38) Carbon Tetrachloride	8.353	117	2804	0.702	ug/l	94
42) 1,2-Dichloroethane	8.665	62	3778	0.956	ug/l	81
43) Isopropyl Acetate	8.677	43	2388	0.423	ug/l #	70
44) Trichloroethene	9.353	130	3876	1.587	ug/l	91
55) 1,1,2-Trichloroethane	11.012	97	1687	0.701	ug/l	89
59) 2-Hexanone	11.188	43	637	0.276	ug/l #	56
76) 1,2,3-Trichloropropane	12.847	75	83017	31.775	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	83017	85.970	ug/l #	3
88) 1,4-Dichlorobenzene	13.812	146	941	0.217	ug/l #	47
89) n-Butylbenzene	14.053	91	1751	0.293	ug/l	82
93) 1,2,4-Trichlorobenzene	15.382	180	1023	0.529	ug/l	96
94) Hexachlorobutadiene	15.500	225	812	0.790	ug/l	91
95) Naphthalene	15.641	128	4204	0.728	ug/l #	93
96) 1,2,3-Trichlorobenzene	15.829	180	1587	0.810	ug/l	96

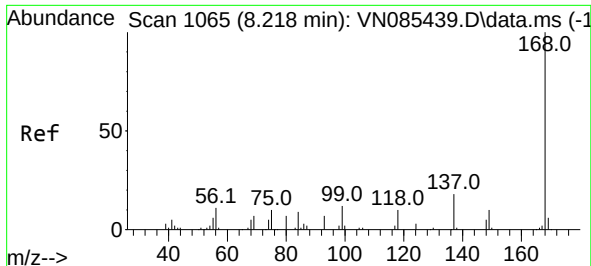
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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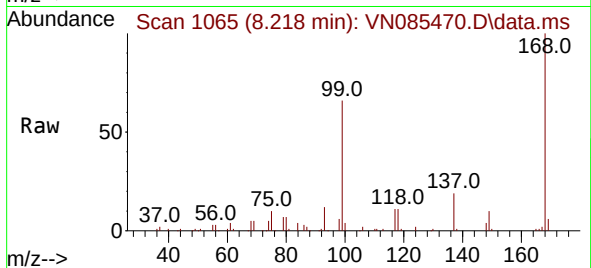
Quant Time: Jan 17 01:05:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
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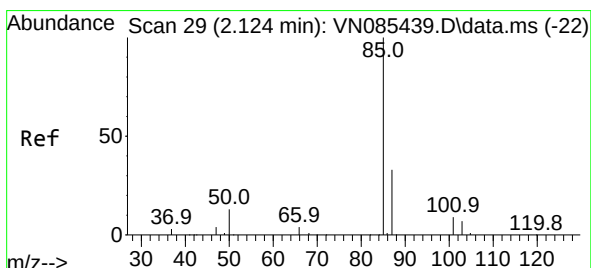
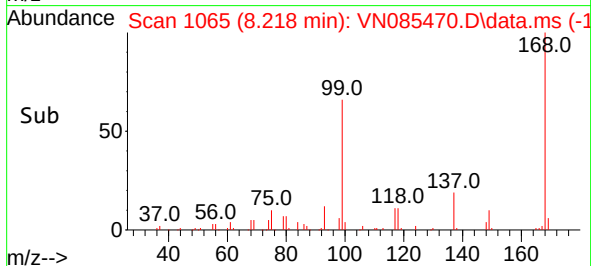
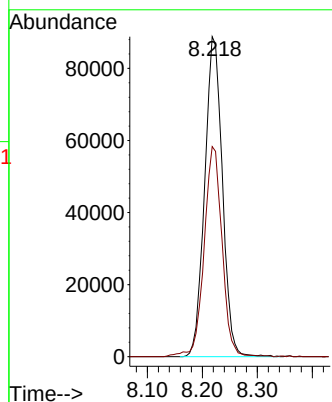


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN085470.D
Acq: 16 Jan 2025 15:22

Instrument :
MSVOA_N
ClientSampleId :
RW7B-CARBON-20250109

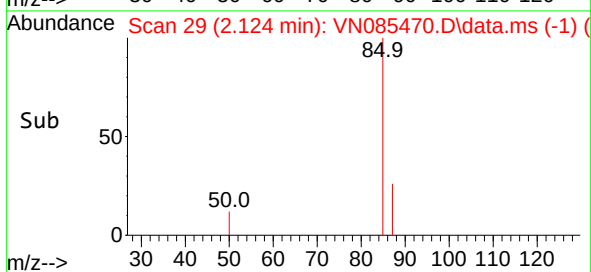
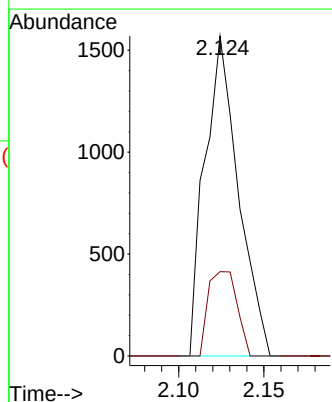
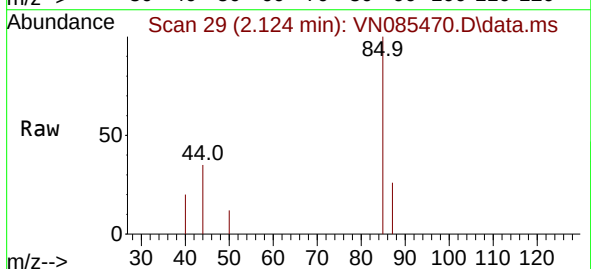


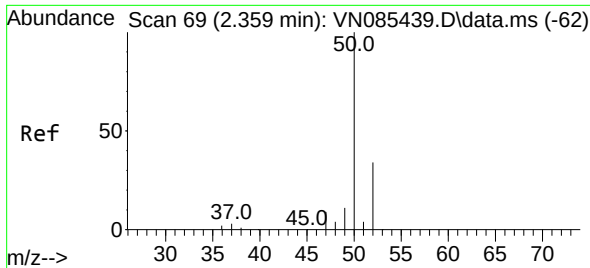
Tgt Ion:168 Resp: 198665
Ion Ratio Lower Upper
168 100
99 65.4 53.6 80.4



#2
Dichlorodifluoromethane
Concen: 0.799 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085470.D
Acq: 16 Jan 2025 15:22

Tgt Ion: 85 Resp: 2150
Ion Ratio Lower Upper
85 100
87 26.4 16.7 50.1





#3

Chloromethane

Concen: 0.246 ug/l

RT: 2.365 min Scan# 70

Delta R.T. 0.006 min

Lab File: VN085470.D

Acq: 16 Jan 2025 15:22

Instrument :

MSVOA_N

ClientSampleId :

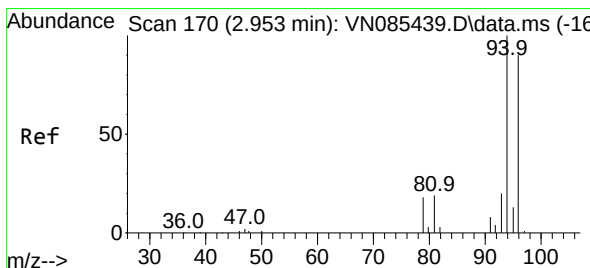
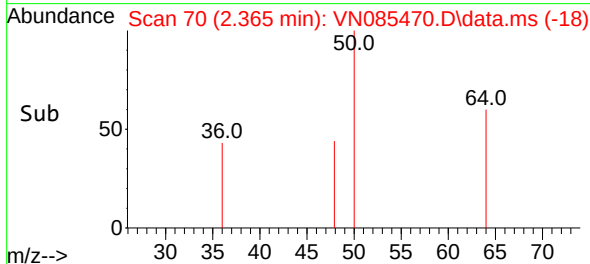
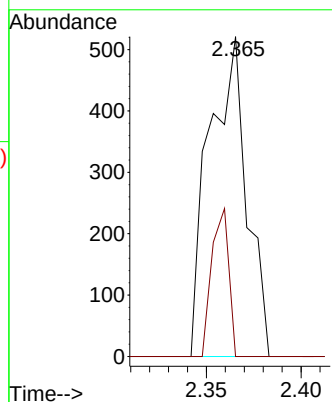
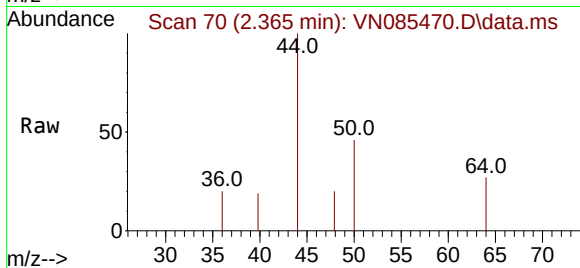
RW7B-CARBON-20250109

Tgt Ion: 50 Resp: 717

Ion Ratio Lower Upper

50 100

52 0.0 27.0 40.6#



#5

Bromomethane

Concen: 0.569 ug/l

RT: 2.971 min Scan# 173

Delta R.T. 0.018 min

Lab File: VN085470.D

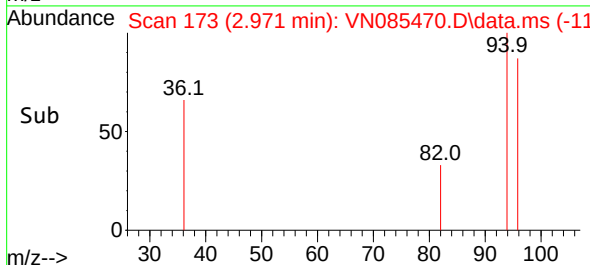
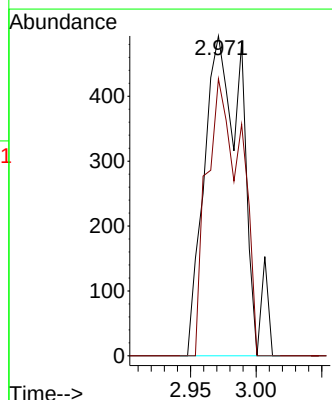
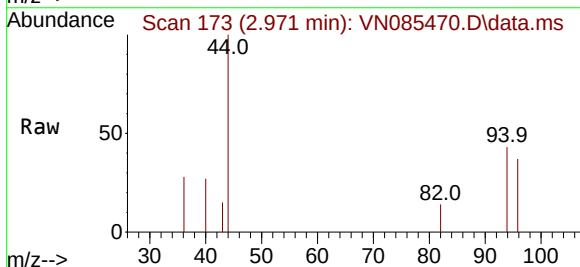
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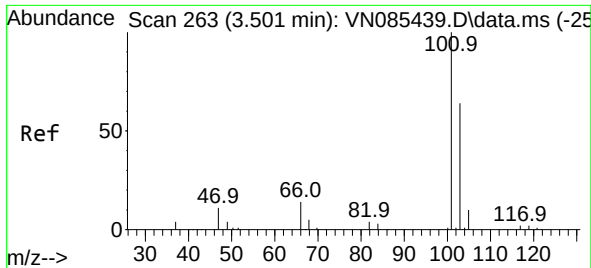
Tgt Ion: 94 Resp: 1006

Ion Ratio Lower Upper

94 100

96 86.6 71.8 107.6

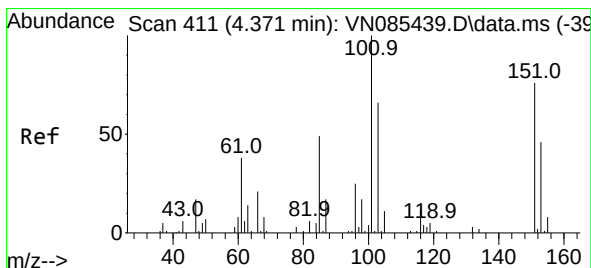
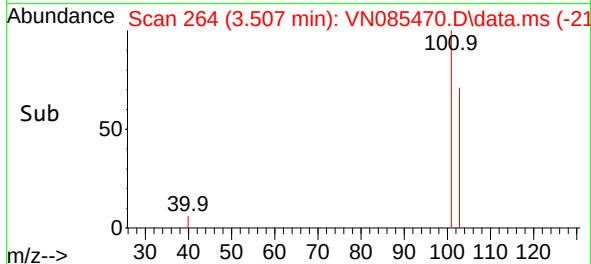
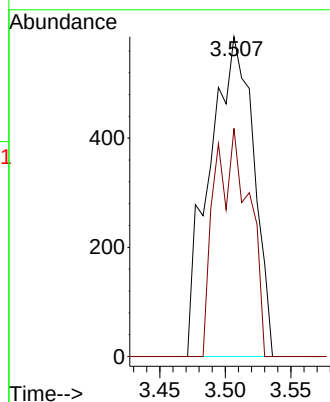
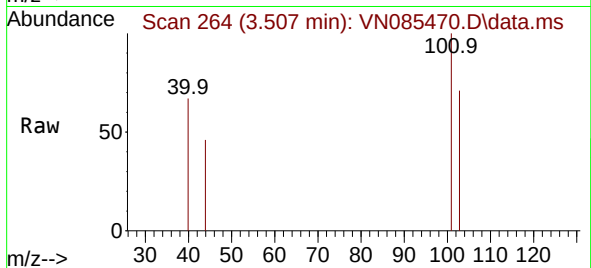




#7
 Trichlorofluoromethane
 Concen: 0.323 ug/l
 RT: 3.507 min Scan# 210
 Delta R.T. 0.006 min
 Lab File: VN085470.D
 Acq: 16 Jan 2025 15:22

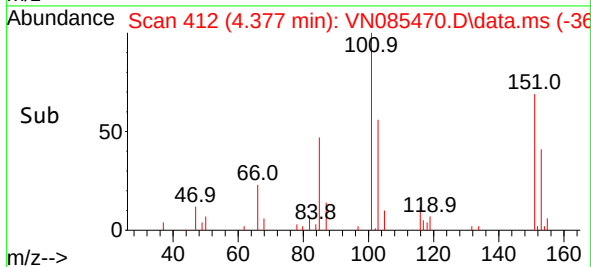
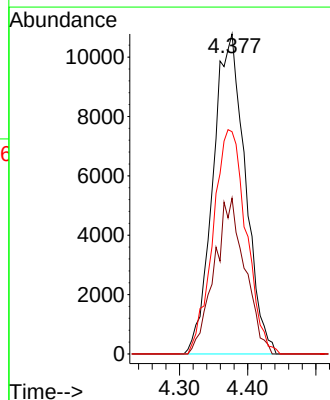
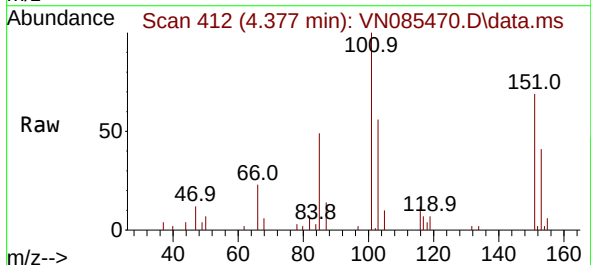
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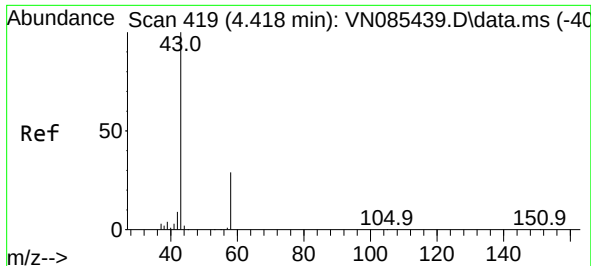
Tgt Ion:101 Resp: 1371
 Ion Ratio Lower Upper
 101 100
 103 71.3 51.4 77.2



#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 14.795 ug/l
 RT: 4.377 min Scan# 412
 Delta R.T. 0.006 min
 Lab File: VN085470.D
 Acq: 16 Jan 2025 15:22

Tgt Ion:101 Resp: 35395
 Ion Ratio Lower Upper
 101 100
 85 46.7 37.8 56.8
 151 72.3 58.8 88.2

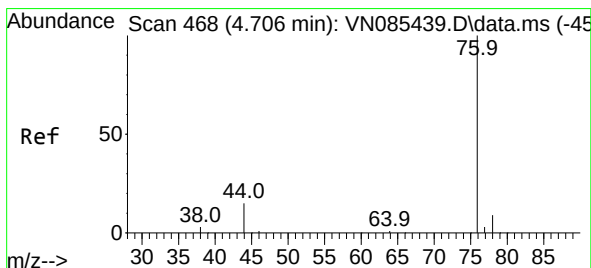
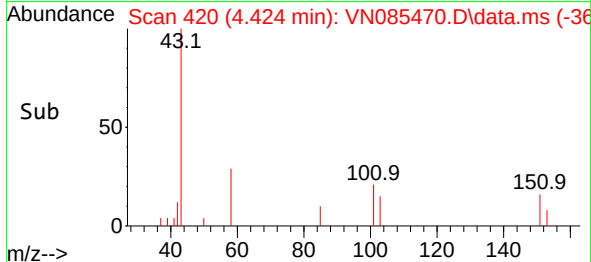
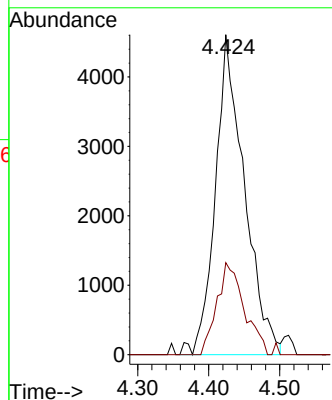
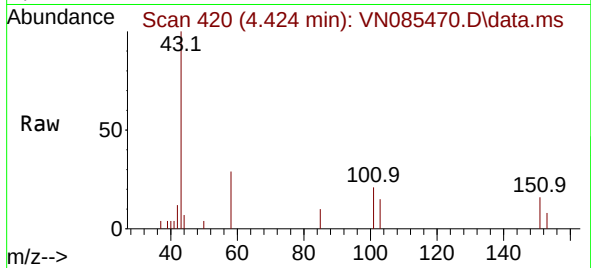




#16
Acetone
Concen: 12.624 ug/l
RT: 4.424 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN085470.D
Acq: 16 Jan 2025 15:22

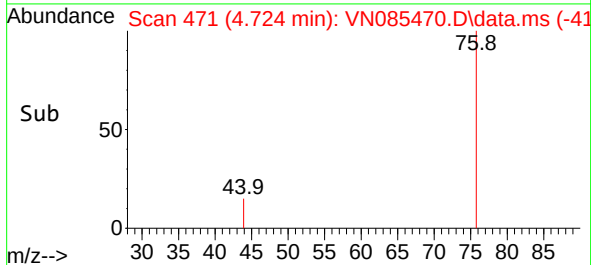
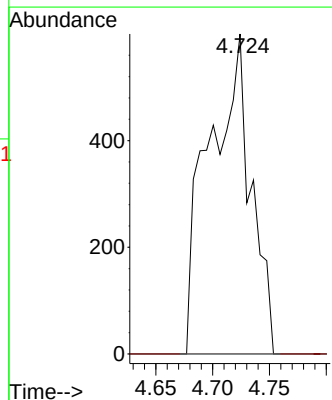
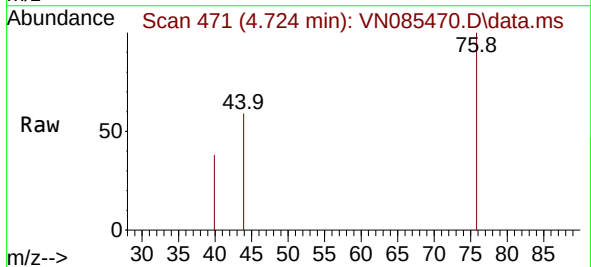
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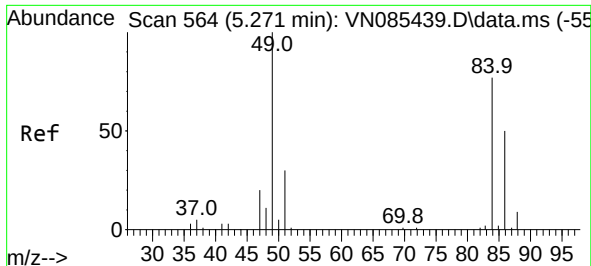
Tgt Ion: 43 Resp: 13081
Ion Ratio Lower Upper
43 100
58 28.7 23.8 35.6



#17
Carbon Disulfide
Concen: 0.234 ug/l
RT: 4.724 min Scan# 471
Delta R.T. 0.018 min
Lab File: VN085470.D
Acq: 16 Jan 2025 15:22

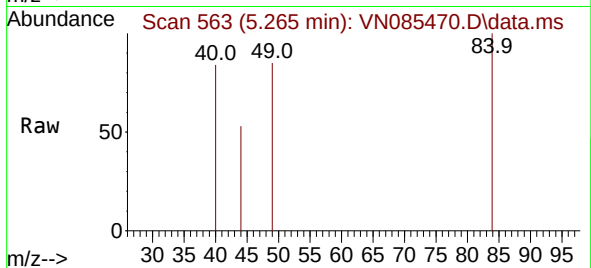
Tgt Ion: 76 Resp: 1538
Ion Ratio Lower Upper
76 100
78 0.0 6.9 10.3#



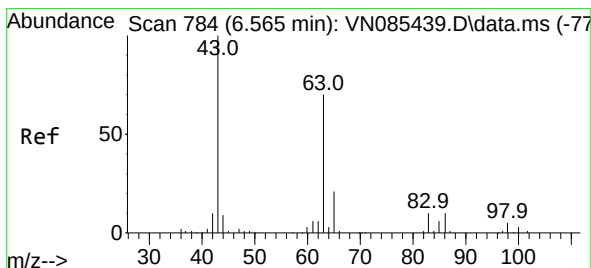
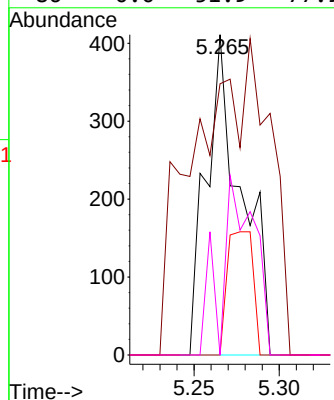


#20
Methylene Chloride
Concen: 0.230 ug/l
RT: 5.265 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN085470.D
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MSVOA_N
ClientSampleId :
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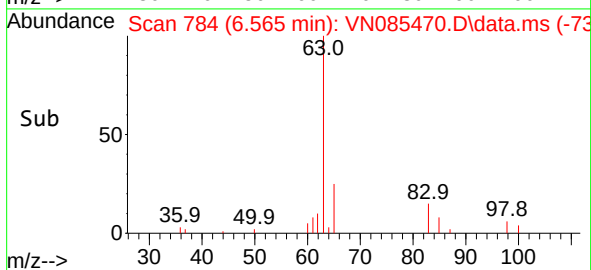
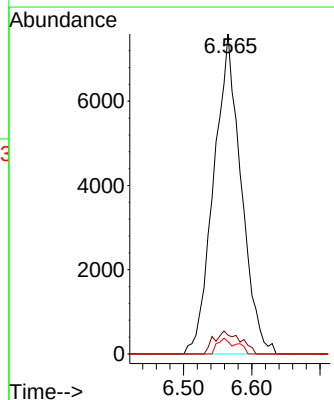
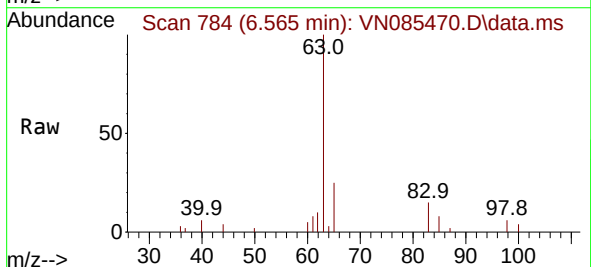


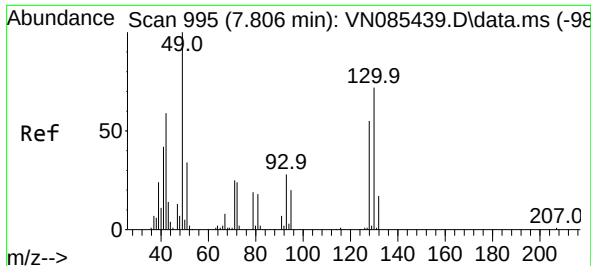
Tgt Ion:	84	Resp:	589
Ion	Ratio	Lower	Upper
84	100		
49	29.0	104.1	156.1#
51	0.0	31.0	46.4#
86	0.0	51.9	77.9#



#24
1,1-Dichloroethane
Concen: 4.539 ug/l
RT: 6.565 min Scan# 784
Delta R.T. 0.000 min
Lab File: VN085470.D
Acq: 16 Jan 2025 15:22

Tgt Ion:	63	Resp:	21254
Ion	Ratio	Lower	Upper
63	100		
98	5.9	3.3	9.8
100	3.8	2.0	6.0

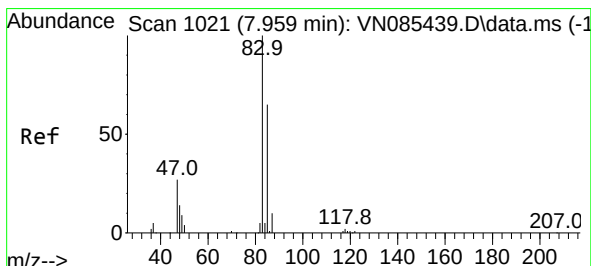
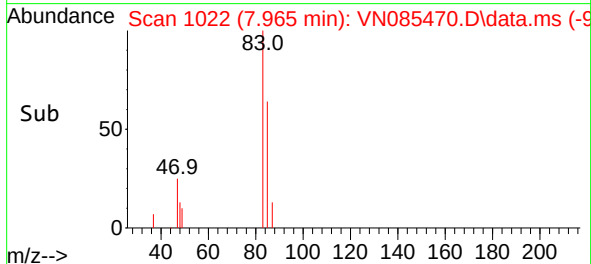
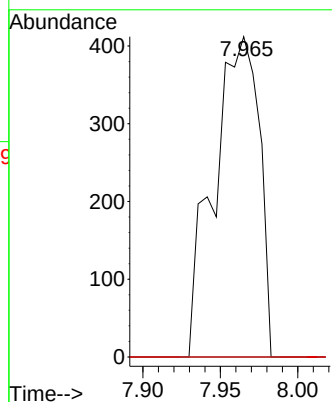
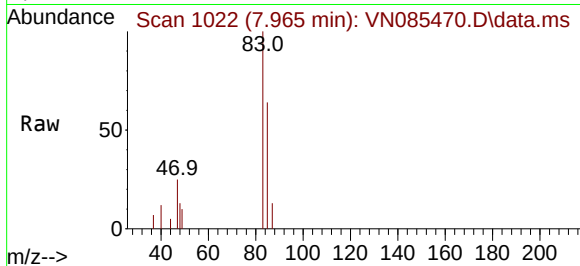




#28
Bromochloromethane
Concen: 0.387 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.159 min
Lab File: VN085470.D
Acq: 16 Jan 2025 15:22

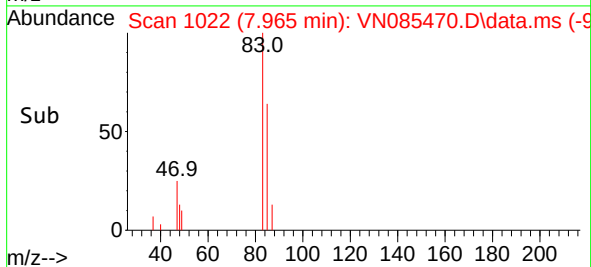
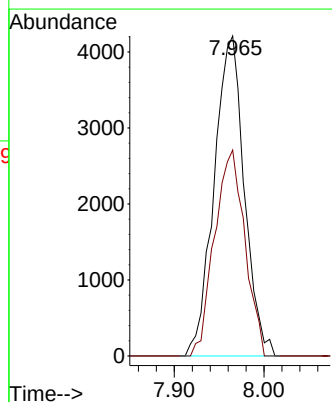
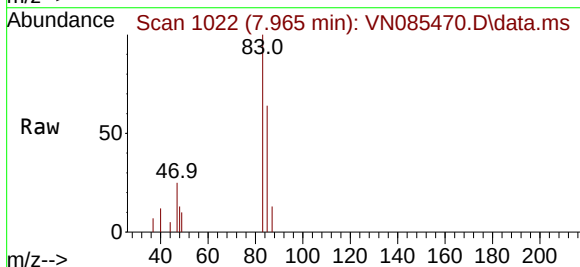
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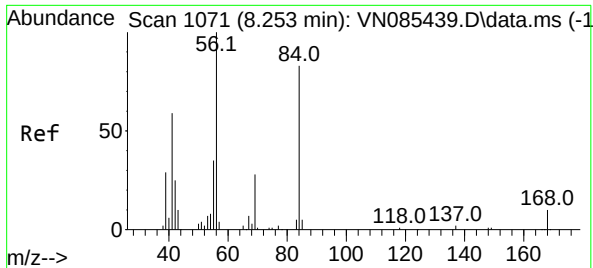
Tgt Ion: 49 Resp: 842
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.4
130 0.0 55.0 82.4#



#30
Chloroform
Concen: 2.035 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.006 min
Lab File: VN085470.D
Acq: 16 Jan 2025 15:22

Tgt Ion: 83 Resp: 9847
Ion Ratio Lower Upper
83 100
85 64.3 51.8 77.6

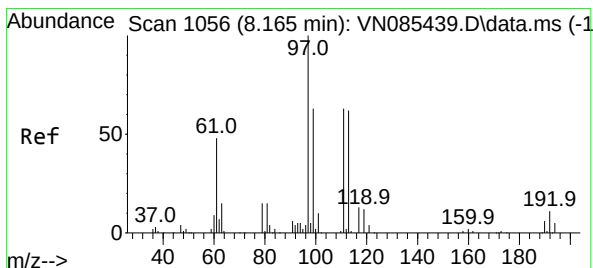
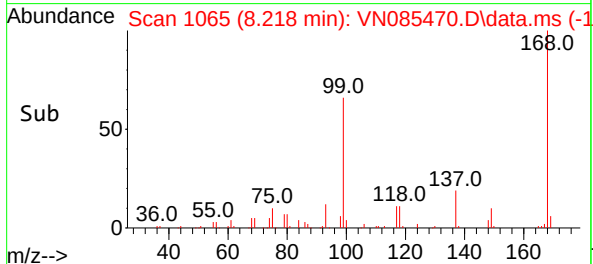
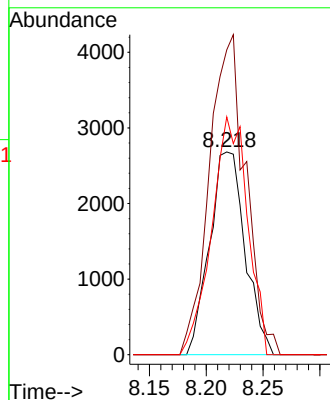
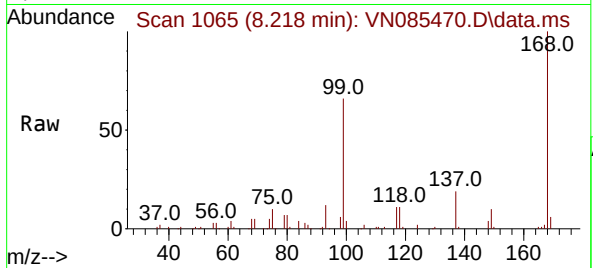




#31
Cyclohexane
Concen: 1.434 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN085470.D
Acq: 16 Jan 2025 15:22

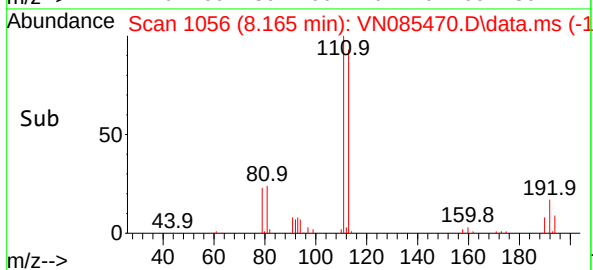
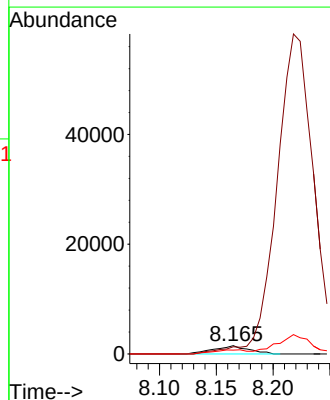
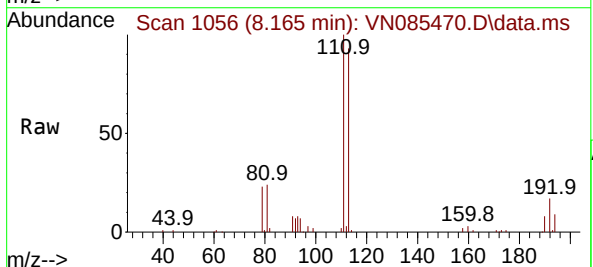
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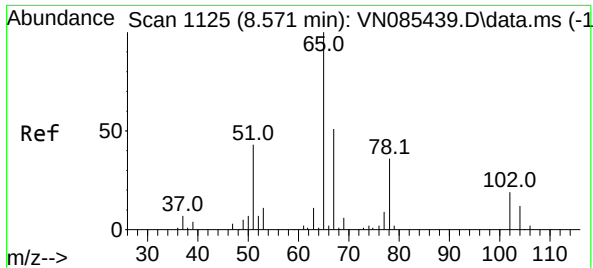
Tgt Ion: 56 Resp: 5836
Ion Ratio Lower Upper
56 100
69 150.4 22.2 33.4#
84 117.3 66.4 99.6#



#32
1,1,1-Trichloroethane
Concen: 0.757 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN085470.D
Acq: 16 Jan 2025 15:22

Tgt Ion: 97 Resp: 3213
Ion Ratio Lower Upper
97 100
99 0.0 49.8 74.6#
61 51.1 41.4 62.2





#33

1,2-Dichloroethane-d4

Concen: 53.685 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085470.D

Acq: 16 Jan 2025 15:22

Instrument :

MSVOA_N

ClientSampleId :

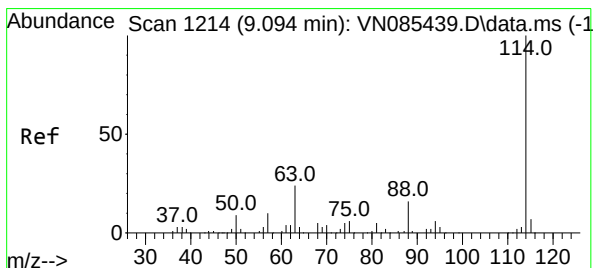
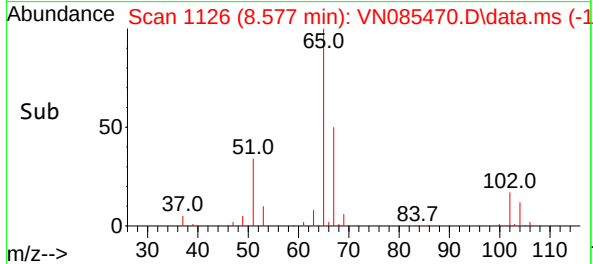
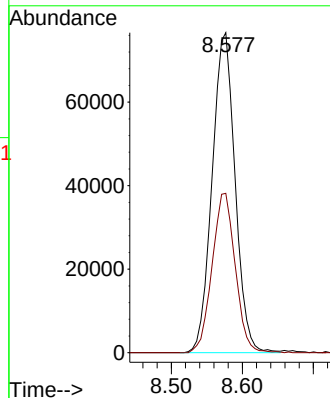
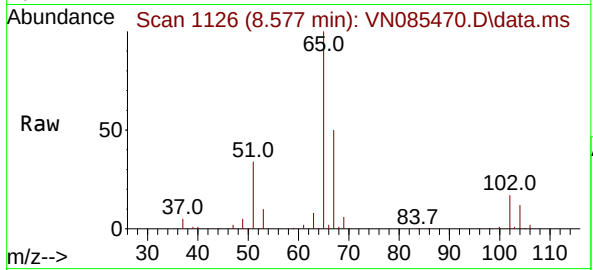
RW7B-CARBON-20250109

Tgt Ion: 65 Resp: 172160

Ion Ratio Lower Upper

65 100

67 50.2 0.0 101.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.094 min Scan# 1214

Delta R.T. 0.000 min

Lab File: VN085470.D

Acq: 16 Jan 2025 15:22

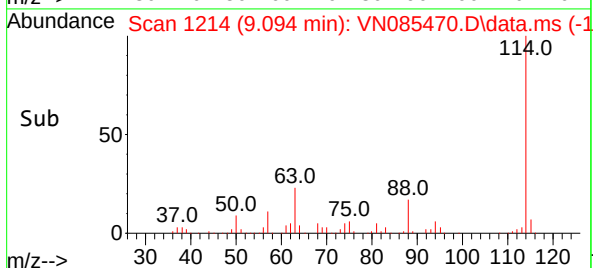
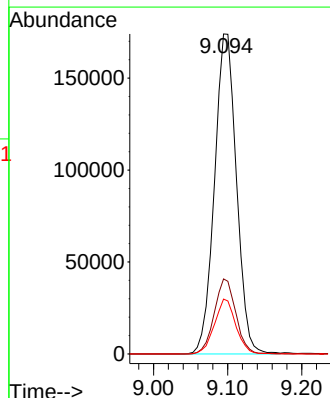
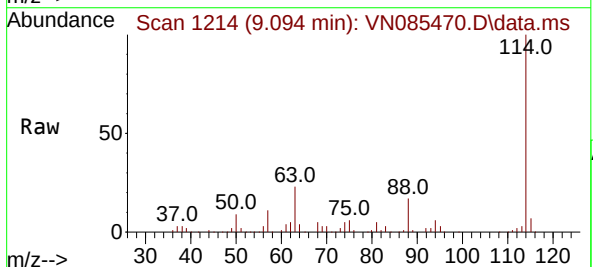
Tgt Ion: 114 Resp: 358567

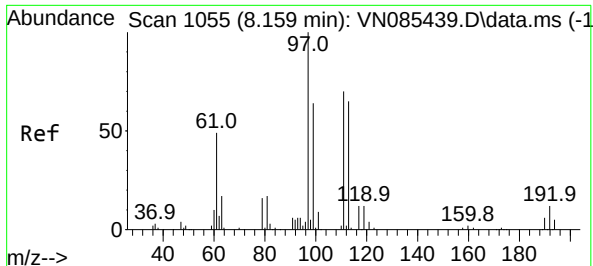
Ion Ratio Lower Upper

114 100

63 23.5 0.0 47.6

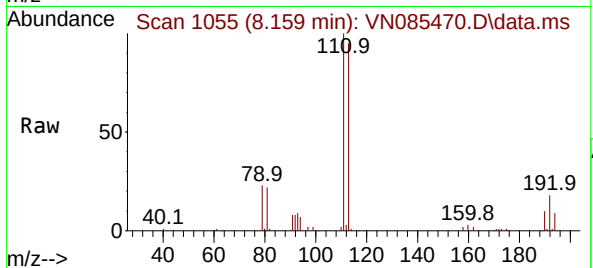
88 17.1 0.0 32.6



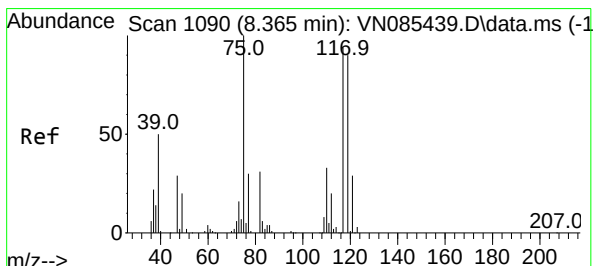
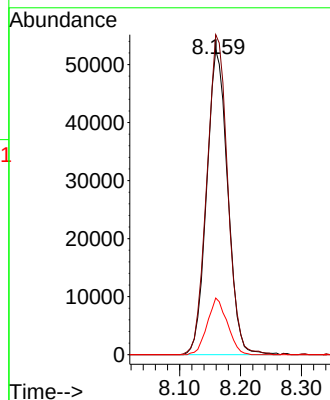
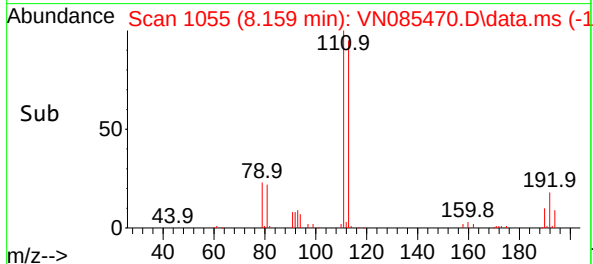


#35
Dibromofluoromethane
Concen: 50.611 ug/l
RT: 8.159 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VN085470.D
Acq: 16 Jan 2025 15:22

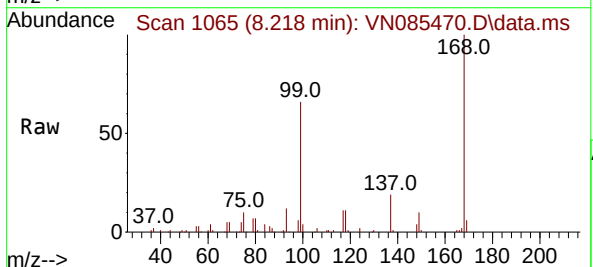
Instrument :
MSVOA_N
ClientSampleId :
RW7B-CARBON-20250109



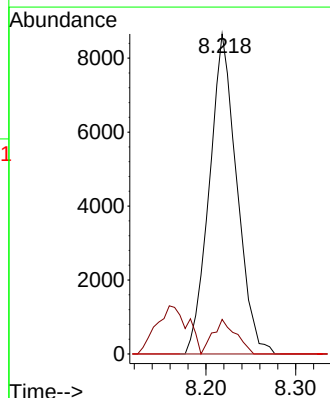
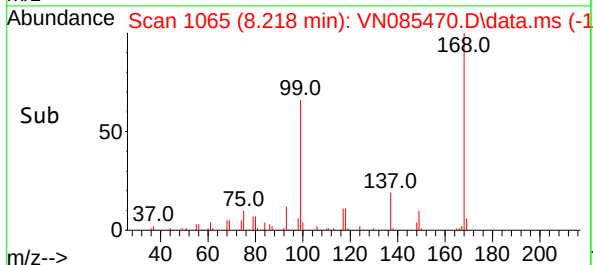
Tgt Ion:113 Resp: 125899
Ion Ratio Lower Upper
113 100
111 104.3 82.7 124.1
192 17.7 14.3 21.5

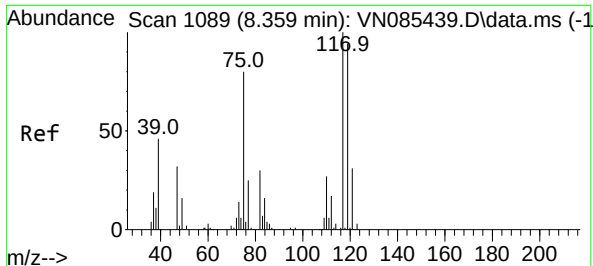


#36
1,1-Dichloropropene
Concen: 5.266 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.147 min
Lab File: VN085470.D
Acq: 16 Jan 2025 15:22



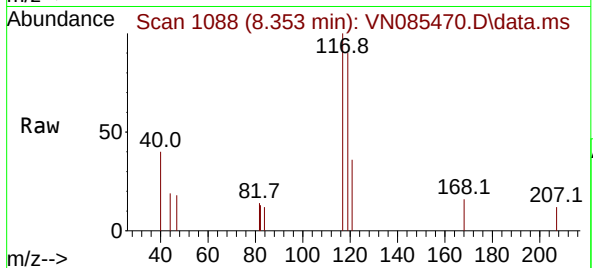
Tgt Ion: 75 Resp: 18385
Ion Ratio Lower Upper
75 100
110 9.0 16.5 49.5#
77 0.0 24.4 36.6#



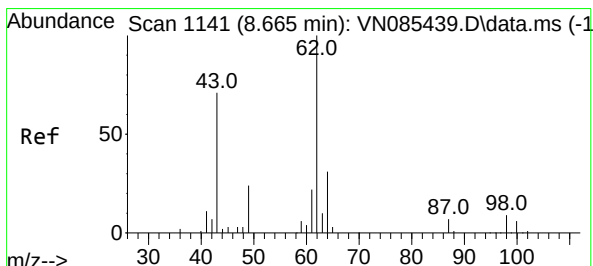
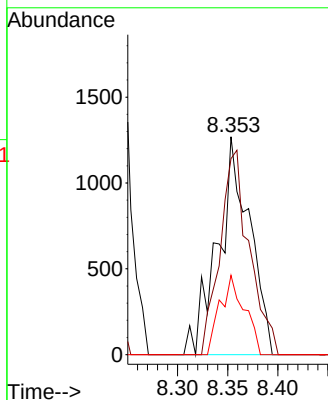
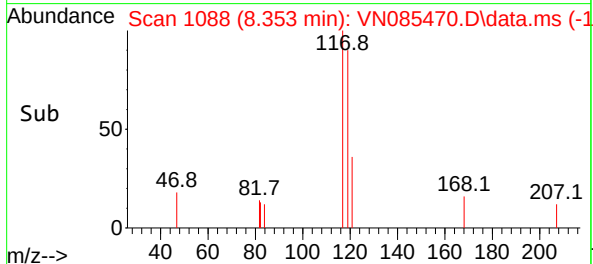


#38
Carbon Tetrachloride
Concen: 0.702 ug/l
RT: 8.353 min Scan# 1108
Delta R.T. -0.006 min
Lab File: VN085470.D
Acq: 16 Jan 2025 15:22

Instrument :
MSVOA_N
ClientSampleId :
RW7B-CARBON-20250109

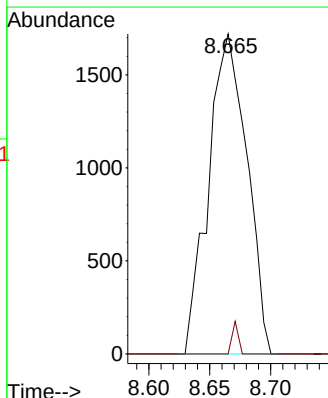
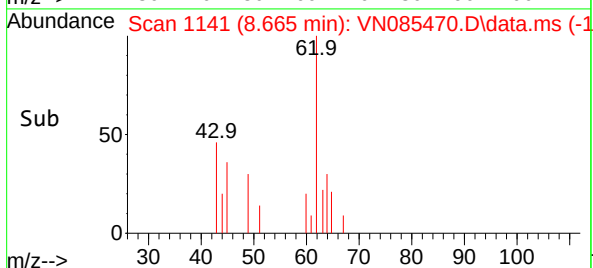
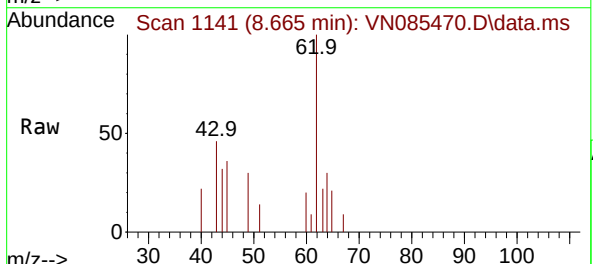


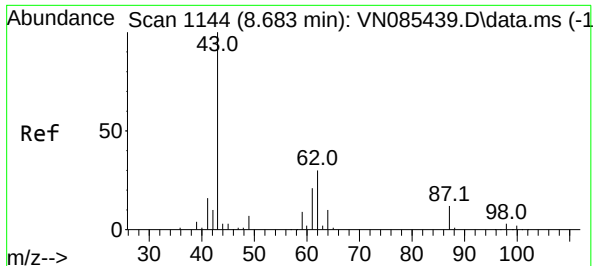
Tgt Ion:117 Resp: 2804
Ion Ratio Lower Upper
117 100
119 90.0 75.4 113.2
121 36.4 24.6 37.0



#42
1,2-Dichloroethane
Concen: 0.956 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. 0.000 min
Lab File: VN085470.D
Acq: 16 Jan 2025 15:22

Tgt Ion: 62 Resp: 3778
Ion Ratio Lower Upper
62 100
98 1.6 0.0 17.0





#43

Isopropyl Acetate

Concen: 0.423 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. -0.006 min

Lab File: VN085470.D

Acq: 16 Jan 2025 15:22

Instrument :

MSVOA_N

ClientSampleId :

RW7B-CARBON-20250109

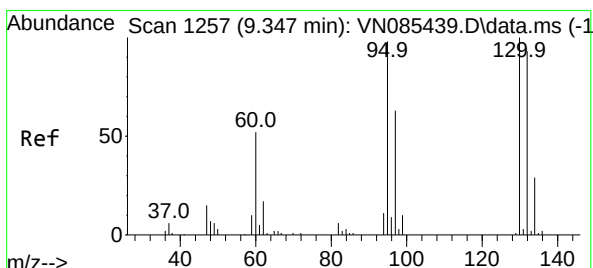
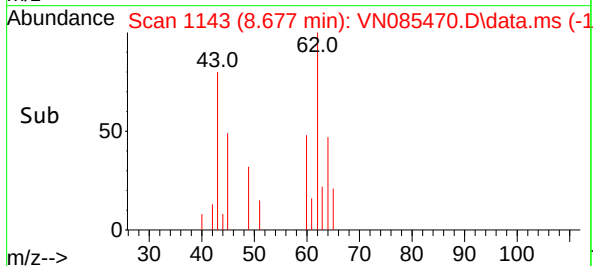
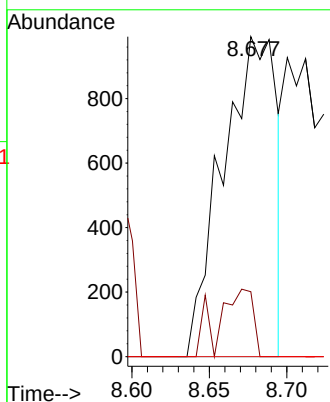
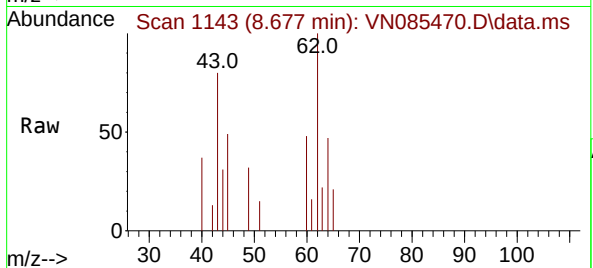
Tgt Ion: 43 Resp: 2388

Ion Ratio Lower Upper

43 100

61 10.9 20.7 31.1#

87 0.0 9.8 14.8#



#44

Trichloroethene

Concen: 1.587 ug/l

RT: 9.353 min Scan# 1258

Delta R.T. 0.006 min

Lab File: VN085470.D

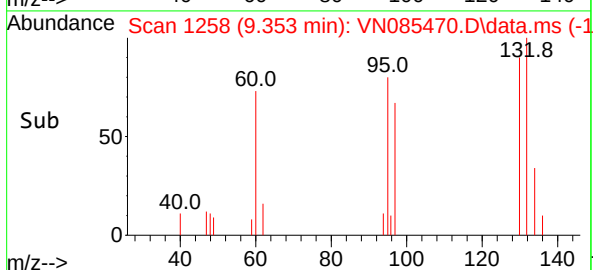
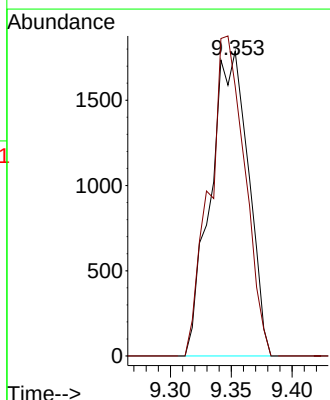
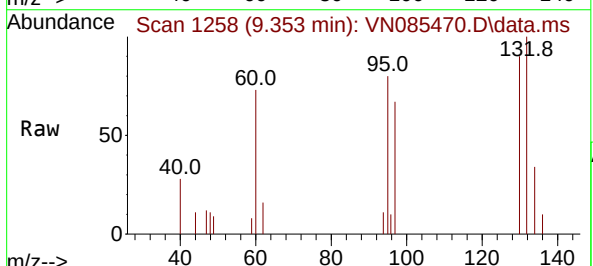
Acq: 16 Jan 2025 15:22

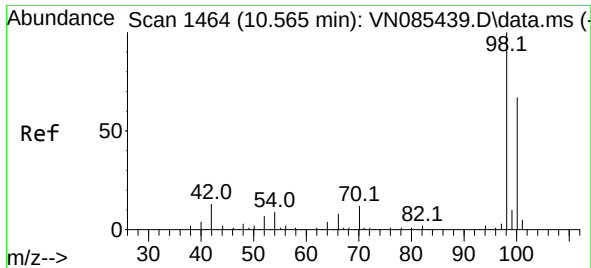
Tgt Ion:130 Resp: 3876

Ion Ratio Lower Upper

130 100

95 88.6 0.0 195.8

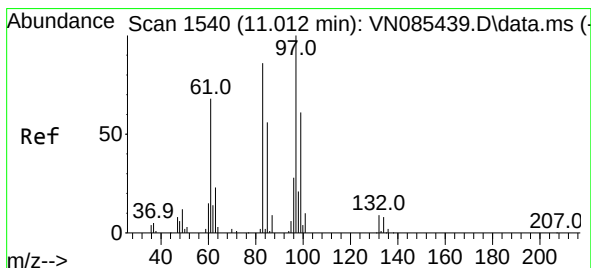
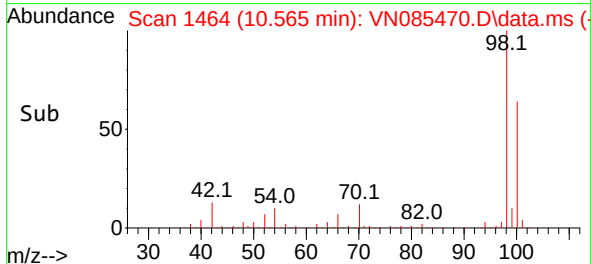
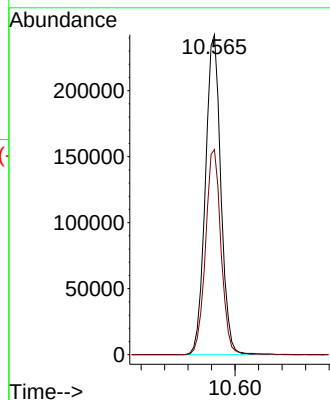
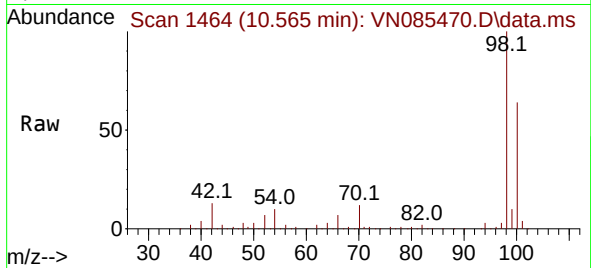




#50
Toluene-d8
Concen: 50.163 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085470.D
Acq: 16 Jan 2025 15:22

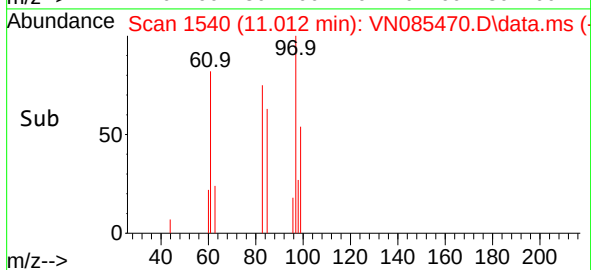
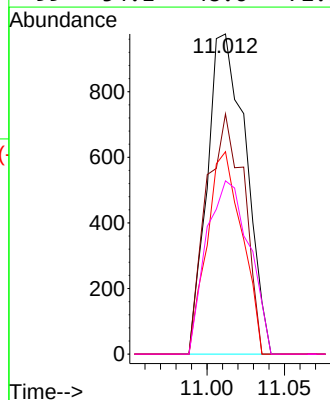
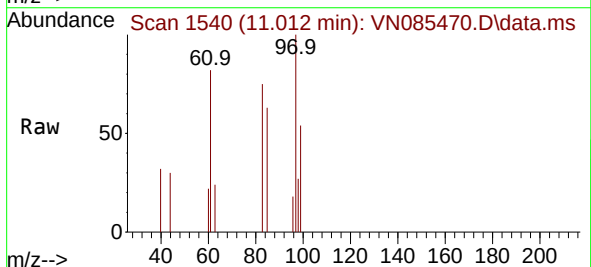
Instrument :
MSVOA_N
ClientSampleId :
RW7B-CARBON-20250109

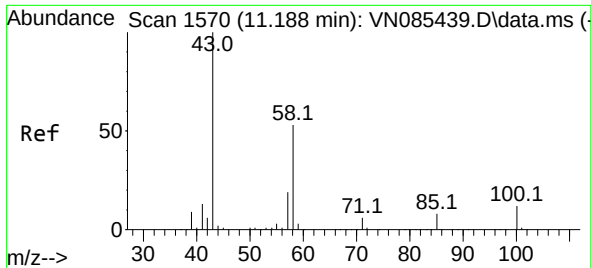
Tgt Ion: 98 Resp: 443352
Ion Ratio Lower Upper
98 100
100 64.1 52.2 78.4



#55
1,1,2-Trichloroethane
Concen: 0.701 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. 0.000 min
Lab File: VN085470.D
Acq: 16 Jan 2025 15:22

Tgt Ion: 97 Resp: 1687
Ion Ratio Lower Upper
97 100
83 75.0 69.0 103.6
85 63.2 44.6 66.8
99 54.1 48.6 72.8

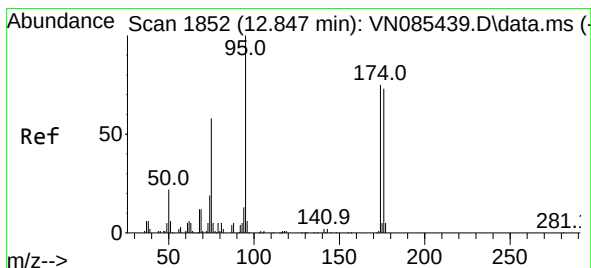
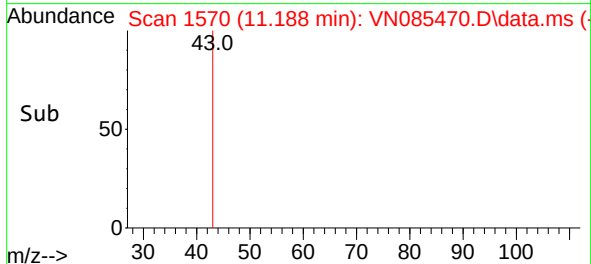
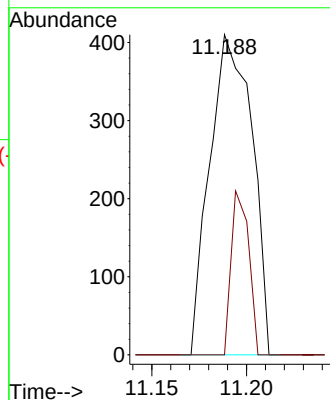
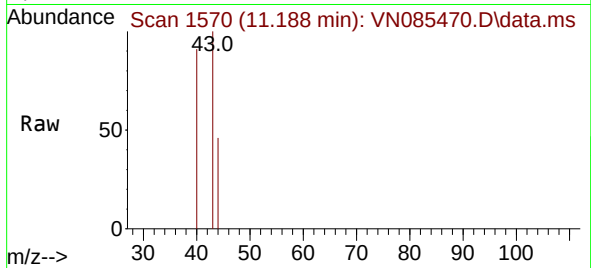




#59
2-Hexanone
Concen: 0.276 ug/l
RT: 11.188 min Scan# 111
Delta R.T. 0.000 min
Lab File: VN085470.D
Acq: 16 Jan 2025 15:22

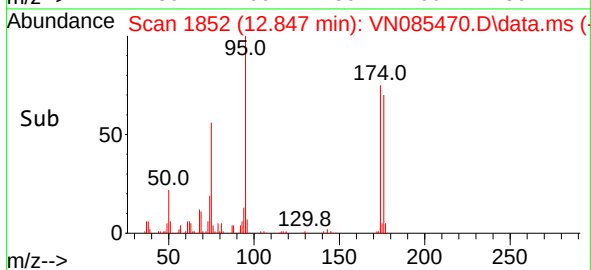
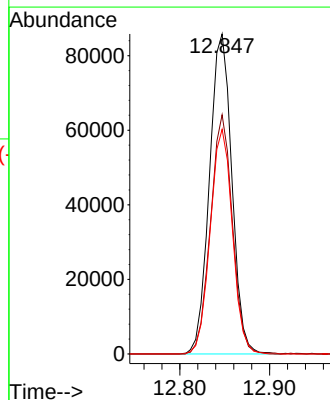
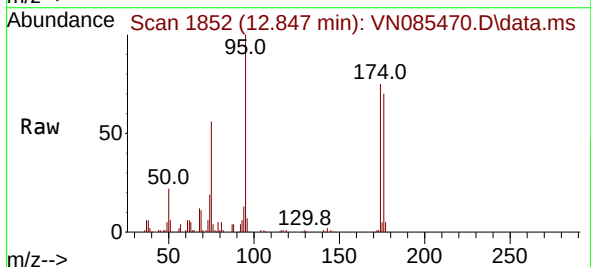
Instrument :
MSVOA_N
ClientSampleId :
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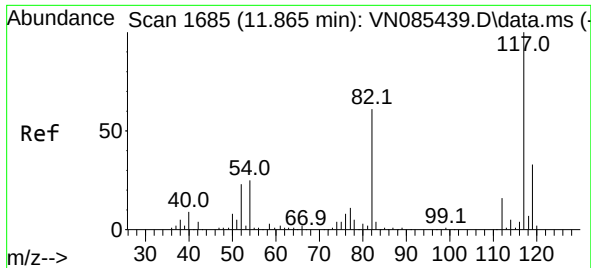
Tgt Ion: 43 Resp: 637
Ion Ratio Lower Upper
43 100
58 21.0 26.2 78.6#



#62
4-Bromofluorobenzene
Concen: 49.146 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085470.D
Acq: 16 Jan 2025 15:22

Tgt Ion: 95 Resp: 148587
Ion Ratio Lower Upper
95 100
174 73.3 0.0 145.0
176 69.5 0.0 142.4

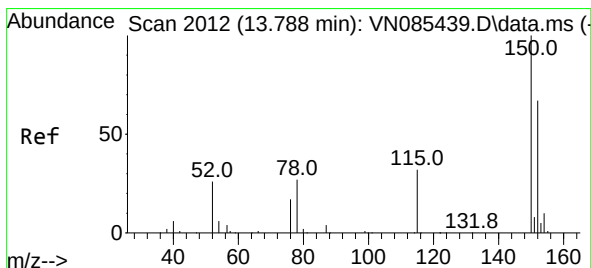
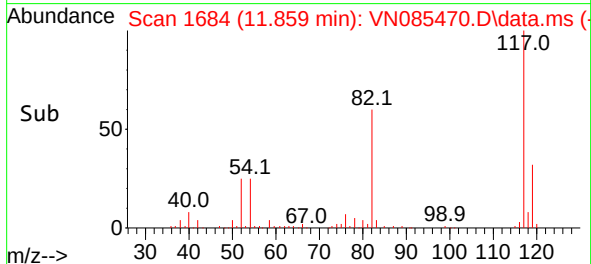
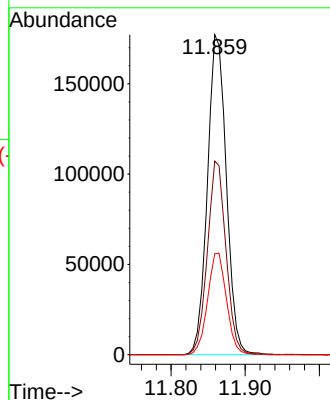
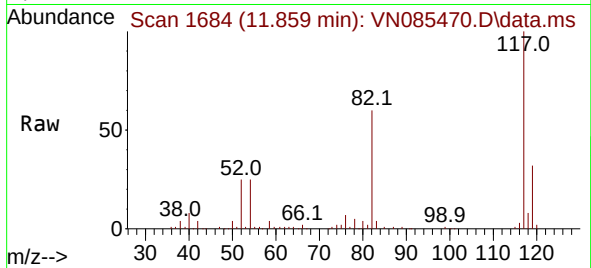




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.859 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN085470.D
Acq: 16 Jan 2025 15:22

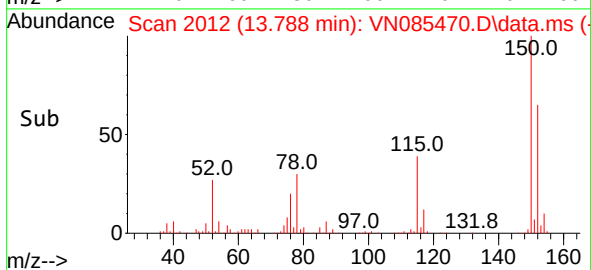
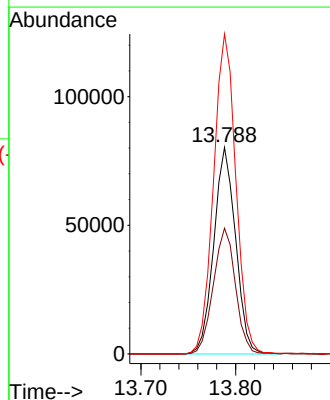
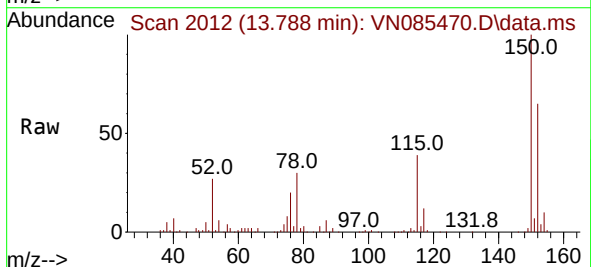
Instrument :
MSVOA_N
ClientSampleId :
RW7B-CARBON-20250109

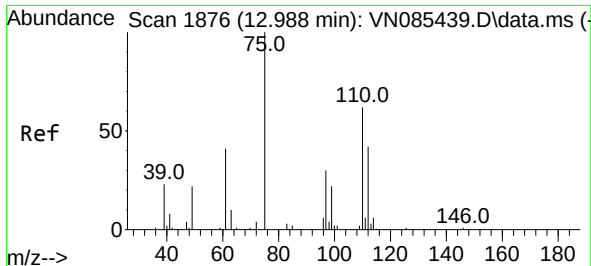
Tgt Ion:117 Resp: 314710
Ion Ratio Lower Upper
117 100
82 60.5 48.6 72.8
119 31.6 26.6 39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085470.D
Acq: 16 Jan 2025 15:22

Tgt Ion:152 Resp: 128541
Ion Ratio Lower Upper
152 100
115 61.7 31.1 93.3
150 158.6 0.0 343.6

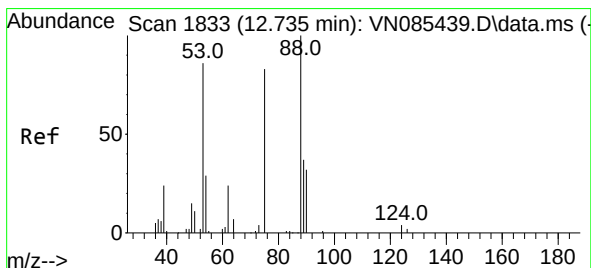
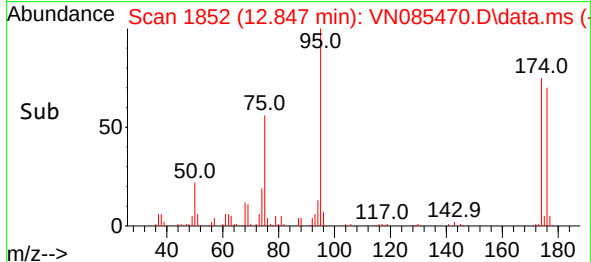
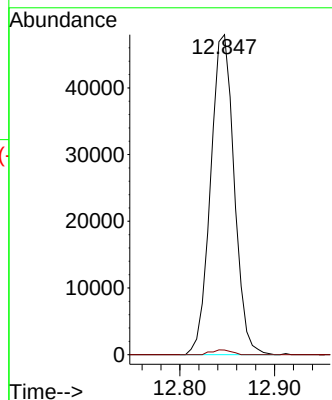
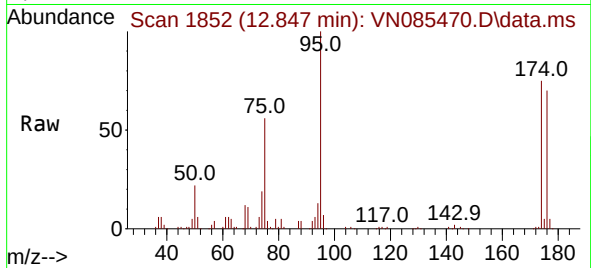




#76
1,2,3-Trichloropropane
Concen: 31.775 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN085470.D
Acq: 16 Jan 2025 15:22

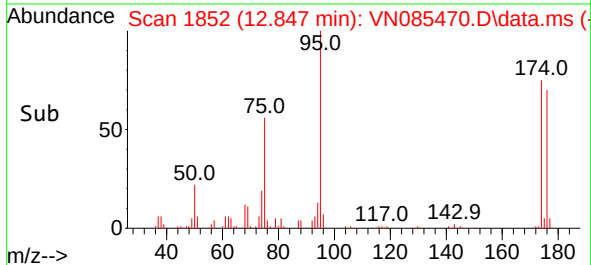
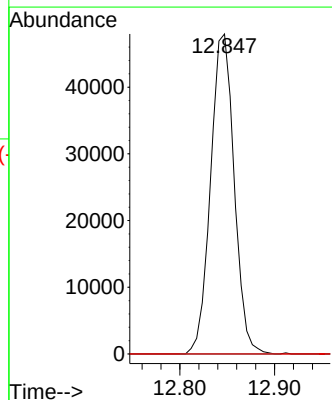
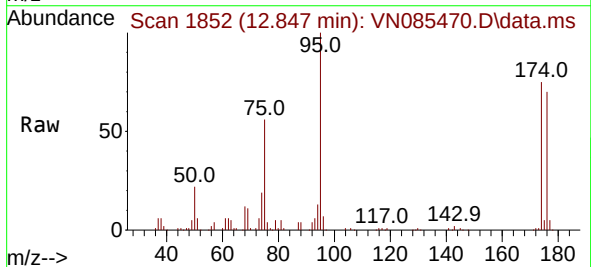
Instrument :
MSVOA_N
ClientSampleId :
RW7B-CARBON-20250109

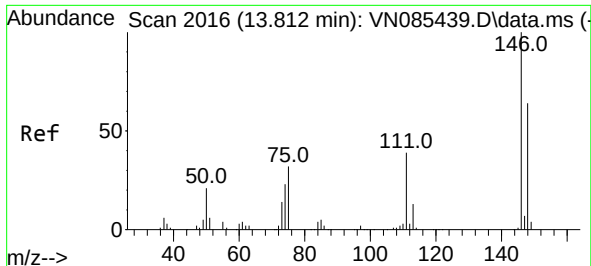
Tgt Ion: 75 Resp: 83017
Ion Ratio Lower Upper
75 100
77 1.3 109.7 329.2#



#81
trans-1,4-Dichloro-2-butene
Concen: 85.970 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN085470.D
Acq: 16 Jan 2025 15:22

Tgt Ion: 75 Resp: 83017
Ion Ratio Lower Upper
75 100
53 0.0 95.6 143.4#
89 0.0 37.0 55.6#

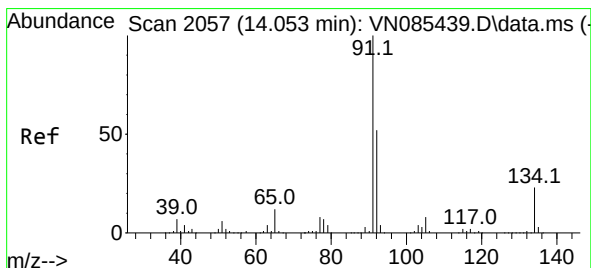
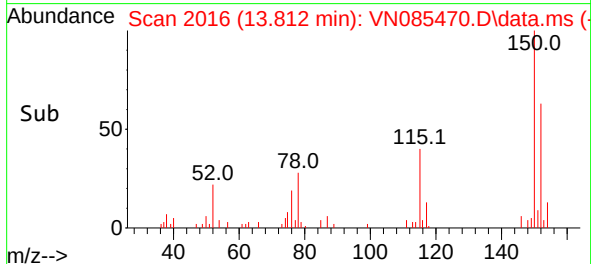
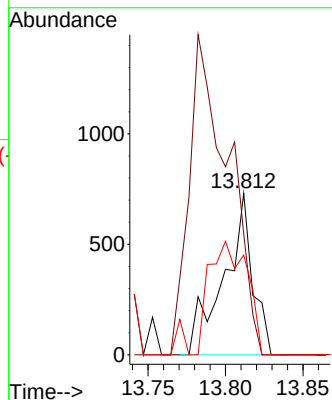
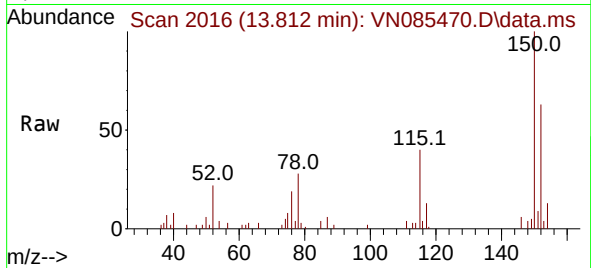




#88
1,4-Dichlorobenzene
Concen: 0.217 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN085470.D
Acq: 16 Jan 2025 15:22

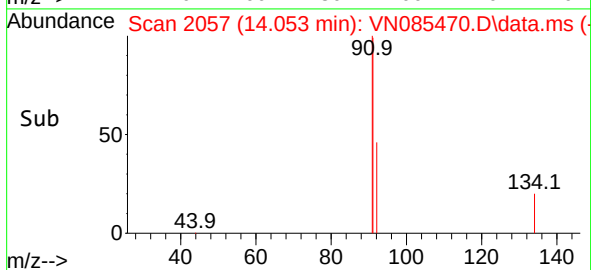
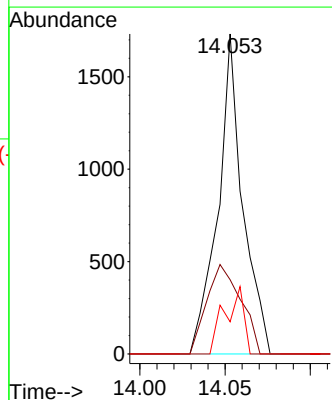
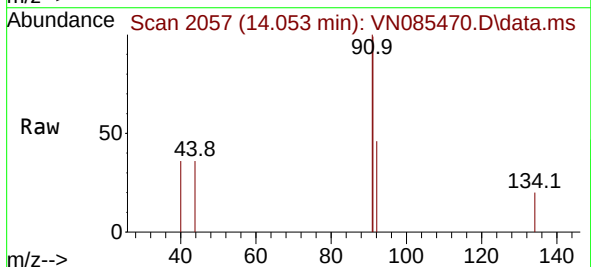
Instrument :
MSVOA_N
ClientSampleId :
RW7B-CARBON-20250109

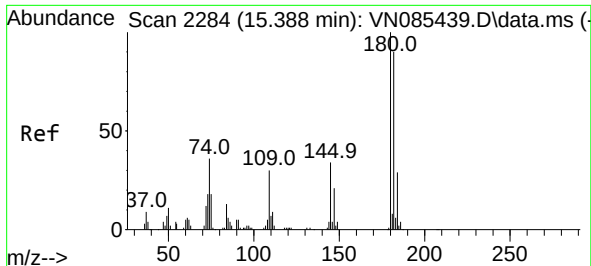
Tgt Ion:146 Resp: 941
Ion Ratio Lower Upper
146 100
111 0.0 21.3 63.7#
148 98.6 32.4 97.0#



#89
n-Butylbenzene
Concen: 0.293 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VN085470.D
Acq: 16 Jan 2025 15:22

Tgt Ion: 91 Resp: 1751
Ion Ratio Lower Upper
91 100
92 38.4 25.8 77.3
134 16.2 11.7 35.1

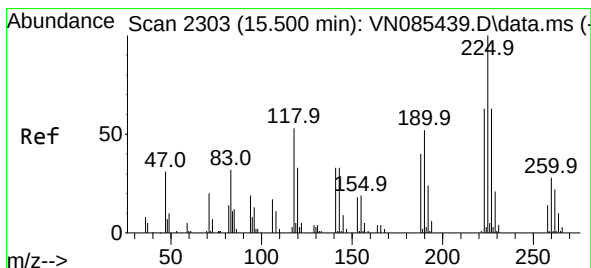
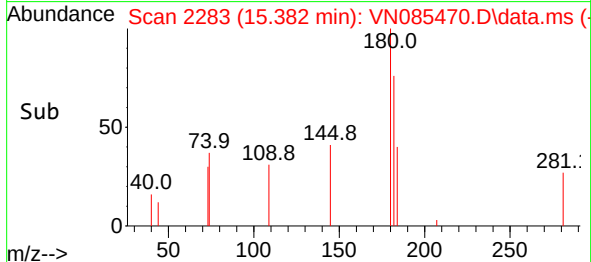
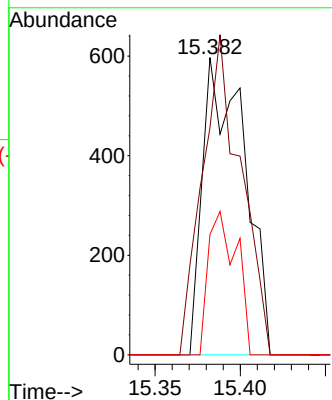
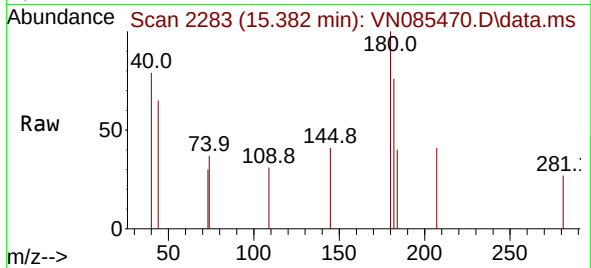




#93
1,2,4-Trichlorobenzene
Concen: 0.529 ug/l
RT: 15.382 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN085470.D
Acq: 16 Jan 2025 15:22

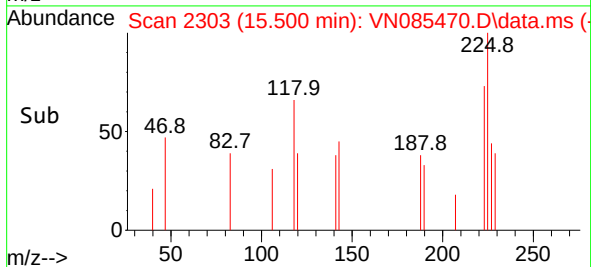
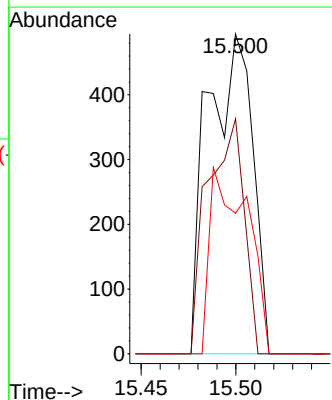
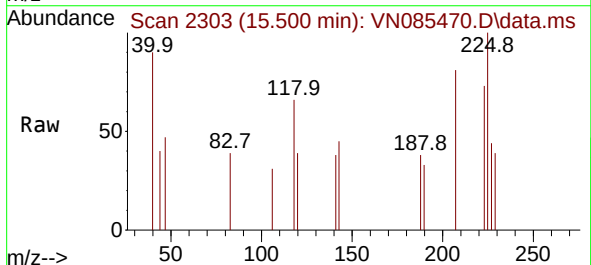
Instrument :
MSVOA_N
ClientSampleId :
RW7B-CARBON-20250109

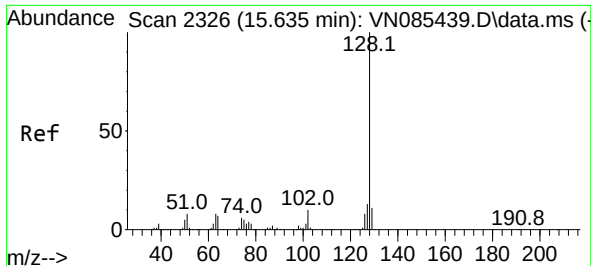
Tgt Ion:180 Resp: 1023
Ion Ratio Lower Upper
180 100
182 98.4 46.8 140.3
145 32.6 16.0 48.0



#94
Hexachlorobutadiene
Concen: 0.790 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN085470.D
Acq: 16 Jan 2025 15:22

Tgt Ion:225 Resp: 812
Ion Ratio Lower Upper
225 100
223 59.9 30.7 92.1
227 49.1 30.9 92.5

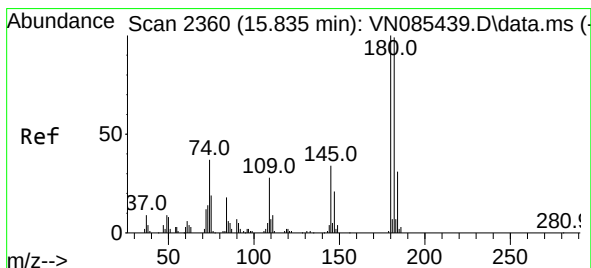
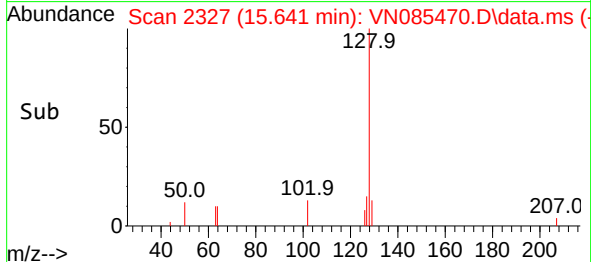
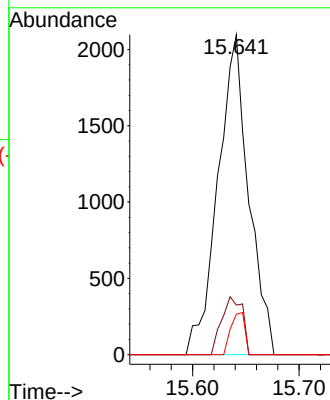
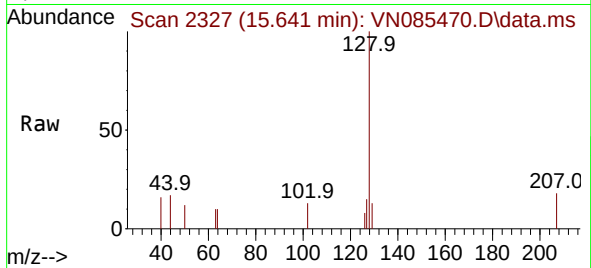




#95
Naphthalene
Concen: 0.728 ug/l
RT: 15.641 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN085470.D
Acq: 16 Jan 2025 15:22

Instrument :
MSVOA_N
ClientSampleId :
RW7B-CARBON-20250109

Tgt Ion:128 Resp: 4204
Ion Ratio Lower Upper
128 100
127 12.3 10.6 16.0
129 5.9 8.8 13.2#



#96
1,2,3-Trichlorobenzene
Concen: 0.810 ug/l
RT: 15.829 min Scan# 2359
Delta R.T. -0.006 min
Lab File: VN085470.D
Acq: 16 Jan 2025 15:22

Tgt Ion:180 Resp: 1587
Ion Ratio Lower Upper
180 100
182 93.9 47.4 142.2
145 26.0 16.9 50.7

