

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121522\
 Data File : VN075816.D
 Acq On : 15 Dec 2022 14:35
 Operator : JC\MD
 Sample : N5990-10RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP120722-1

Quant Time: Dec 16 03:09:23 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121422W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 14 13:03:41 2022
 Response via : Initial Calibration

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

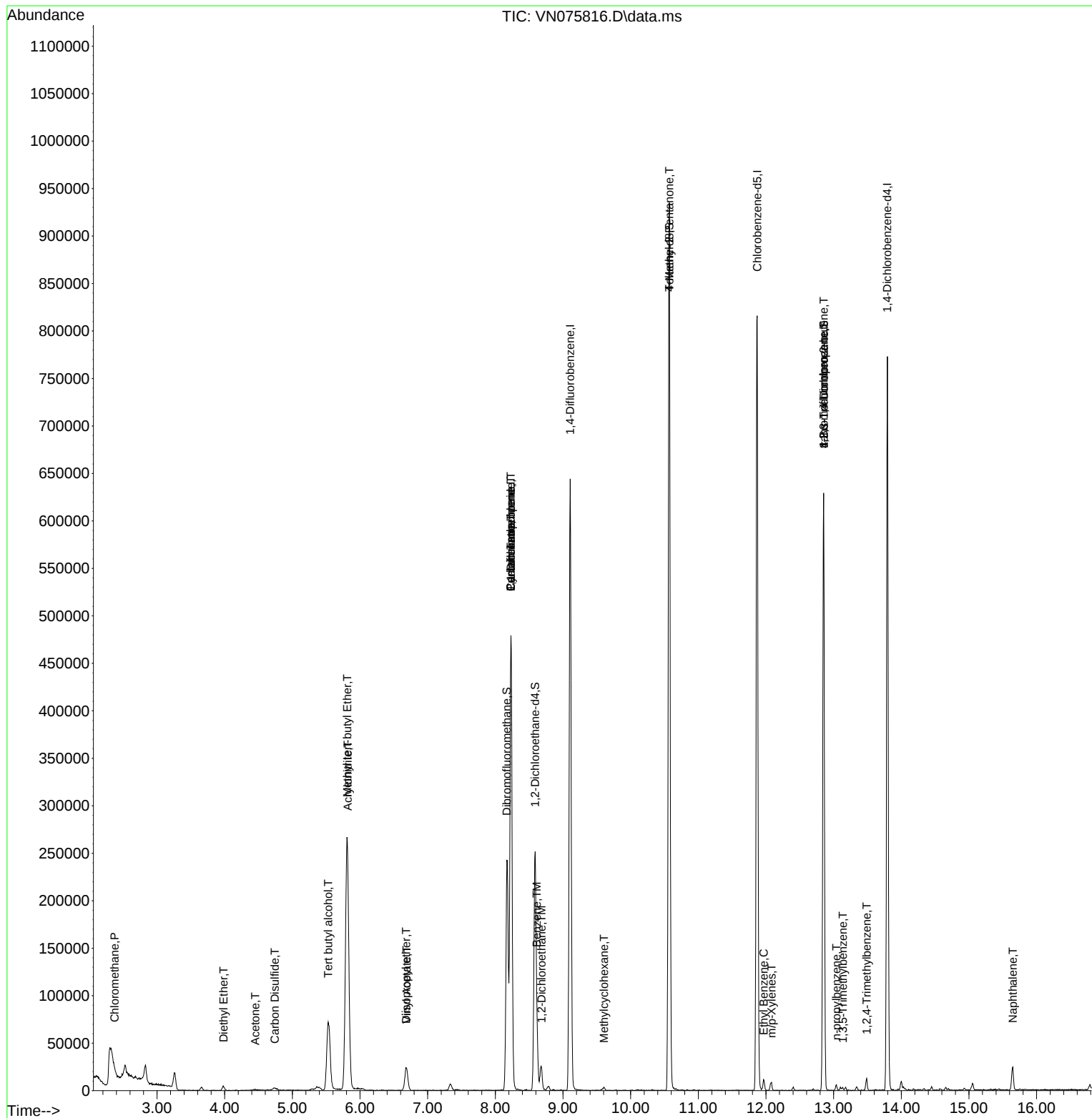
Internal Standards						
1) Pentafluorobenzene	8.230	168	382509	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	596955	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	510805	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	216651	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	195782	47.048	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	94.100%
35) Dibromofluoromethane	8.171	113	177293	47.958	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	95.920%
50) Toluene-d8	10.571	98	680697	49.247	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	98.500%
62) 4-Bromofluorobenzene	12.853	95	211182	46.129	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	92.260%
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	691	0.205	ug/l #	40
8) Diethyl Ether	3.983	74	2790	1.250	ug/l	96
11) Tert butyl alcohol	5.530	59	139541	236.982	ug/l	99
15) Acrylonitrile	5.818	53	5046	3.140	ug/l #	22
16) Acetone	4.453	43	1273	0.887	ug/l #	39
17) Carbon Disulfide	4.742	76	3032	0.369	ug/l #	68
19) Methyl tert-butyl Ether	5.812	73	478844	42.892	ug/l	95
20) Methylene Chloride	5.289	84	294	Below Cal	#	59
22) Diisopropyl ether	6.683	45	28731	2.984	ug/l #	94
23) Vinyl Acetate	6.689	43	15172	2.341	ug/l #	65
31) Cyclohexane	8.230	56	9342	1.568	ug/l #	14
36) 1,1-Dichloropropene	8.230	75	26051	5.305	ug/l #	49
38) Carbon Tetrachloride	8.230	117	37917	6.899	ug/l #	16
39) Methylcyclohexane	9.606	83	1870	0.316	ug/l #	90
40) Benzene	8.612	78	54258	3.581	ug/l	100
42) 1,2-Dichloroethane	8.683	62	22104	4.388	ug/l	100
51) 4-Methyl-2-Pentanone	10.571	43	2368	0.602	ug/l #	1
67) Ethyl Benzene	11.965	91	8591	0.486	ug/l	94
68) m/p-Xylenes	12.082	106	3154	0.450	ug/l	94
76) 1,2,3-Trichloropropane	12.853	75	107422	24.598	ug/l #	1
78) n-propylbenzene	13.041	91	5737	0.332	ug/l	98
80) 1,3,5-Trimethylbenzene	13.135	105	2682	0.205	ug/l	68
81) trans-1,4-Dichloro-2-b...	12.853	75	107422	88.539	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.488	105	7613	0.586	ug/l	99
95) Naphthalene	15.647	128	26025	4.289	ug/l	99

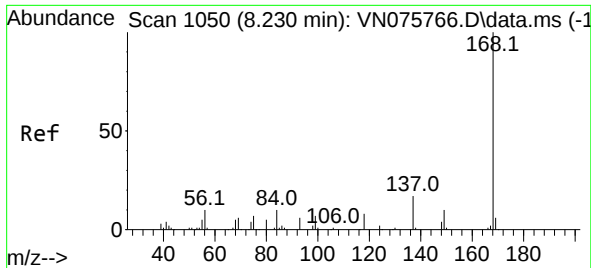
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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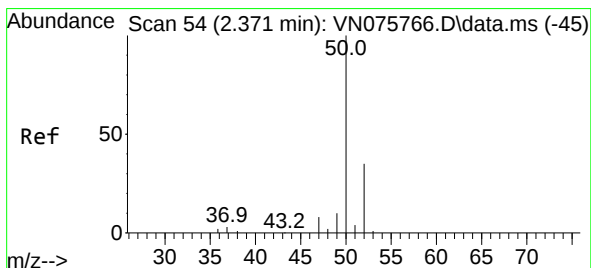
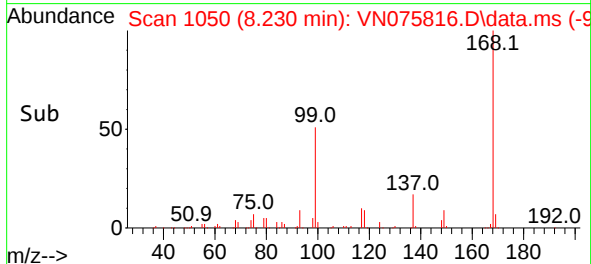
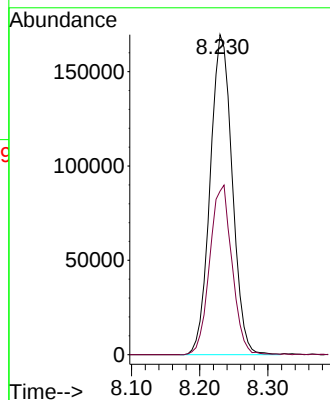
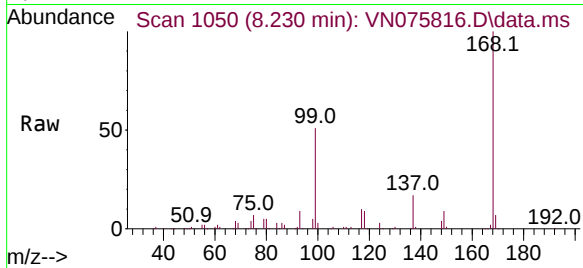




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.000 min
Lab File: VN075816.D
Acq: 15 Dec 2022 14:35

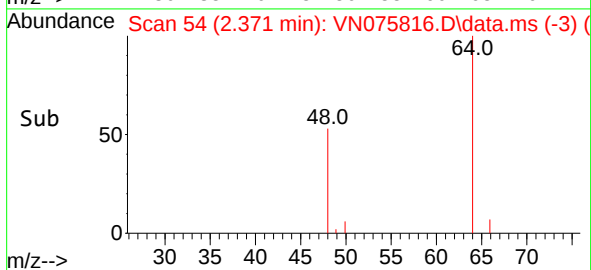
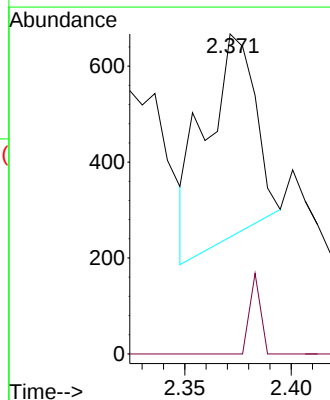
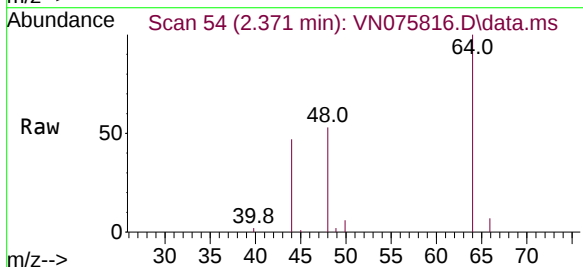
Instrument :
MSVOA_N
ClientSampleId :
DUP120722-1

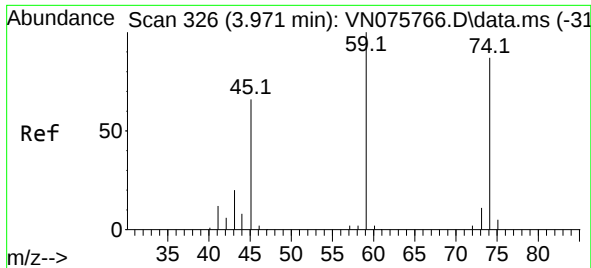
Tgt Ion:168 Resp: 382509
Ion Ratio Lower Upper
168 100
99 51.1 44.2 66.4



#3
Chloromethane
Concen: 0.205 ug/l
RT: 2.371 min Scan# 54
Delta R.T. 0.000 min
Lab File: VN075816.D
Acq: 15 Dec 2022 14:35

Tgt Ion: 50 Resp: 691
Ion Ratio Lower Upper
50 100
52 0.0 27.7 41.5#





#8

Diethyl Ether

Concen: 1.250 ug/l

RT: 3.983 min Scan# 31

Delta R.T. 0.012 min

Lab File: VN075816.D

Acq: 15 Dec 2022 14:35

Instrument :

MSVOA_N

ClientSampleId :

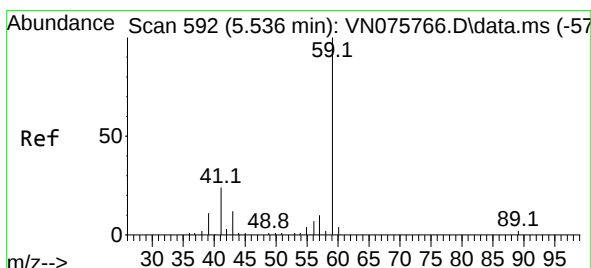
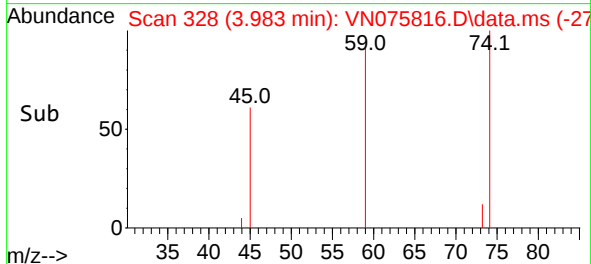
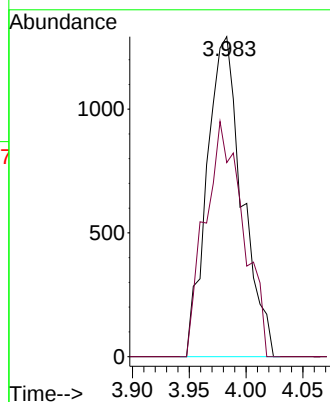
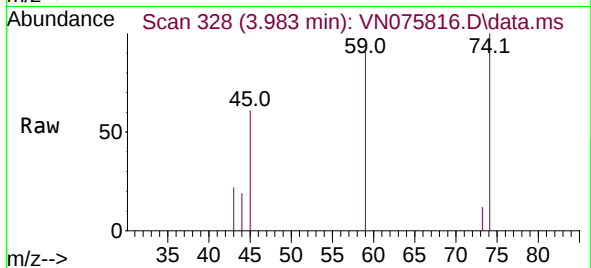
DUP120722-1

Tgt Ion: 74 Resp: 2790

Ion Ratio Lower Upper

74 100

45 79.2 37.8 113.4



#11

Tert butyl alcohol

Concen: 236.982 ug/l

RT: 5.530 min Scan# 591

Delta R.T. -0.006 min

Lab File: VN075816.D

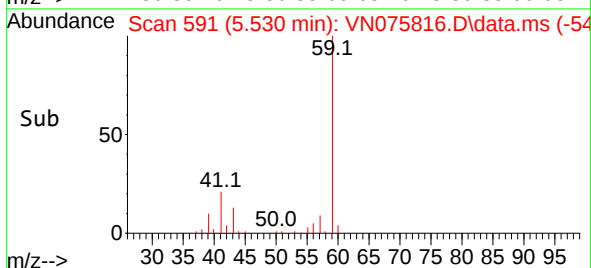
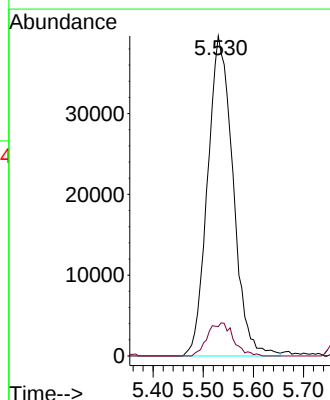
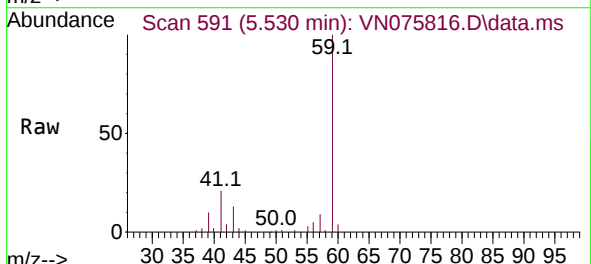
Acq: 15 Dec 2022 14:35

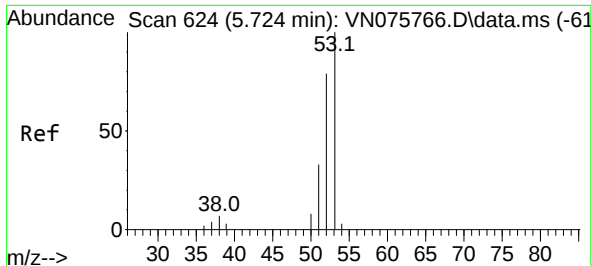
Tgt Ion: 59 Resp: 139541

Ion Ratio Lower Upper

59 100

57 10.5 8.2 12.4

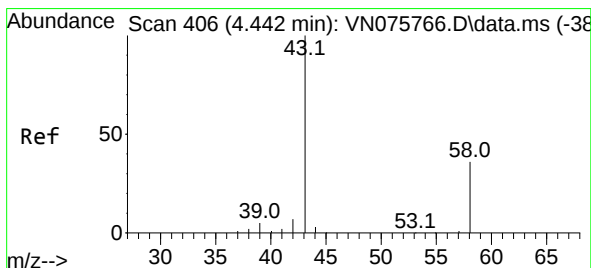
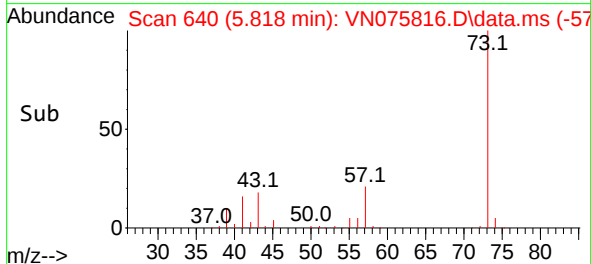
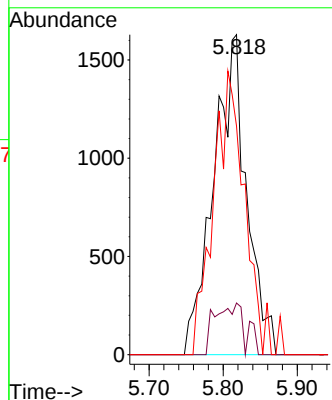
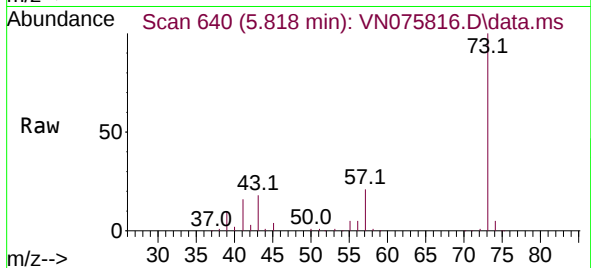




#15
Acrylonitrile
Concen: 3.140 ug/l
RT: 5.818 min Scan# 64
Delta R.T. 0.094 min
Lab File: VN075816.D
Acq: 15 Dec 2022 14:35

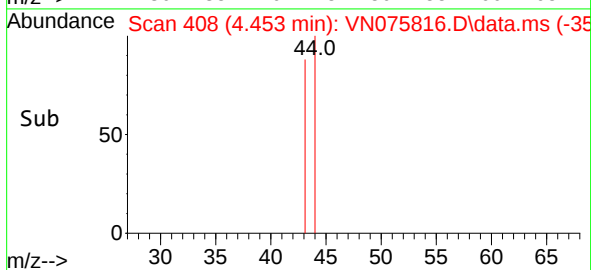
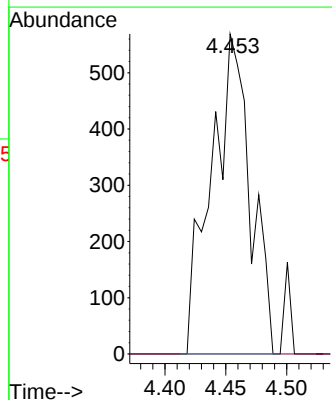
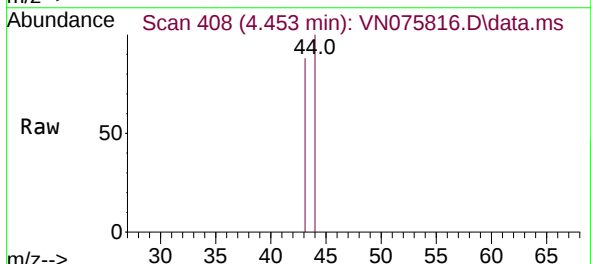
Instrument :
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DUP120722-1

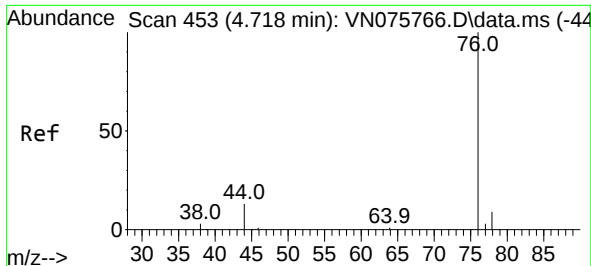
Tgt Ion: 53 Resp: 5046
Ion Ratio Lower Upper
53 100
52 12.5 65.4 98.0#
51 83.2 28.9 43.3#



#16
Acetone
Concen: 0.887 ug/l
RT: 4.453 min Scan# 408
Delta R.T. 0.012 min
Lab File: VN075816.D
Acq: 15 Dec 2022 14:35

Tgt Ion: 43 Resp: 1273
Ion Ratio Lower Upper
43 100
58 0.0 28.6 43.0#

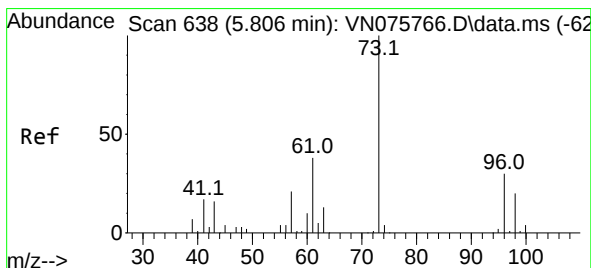
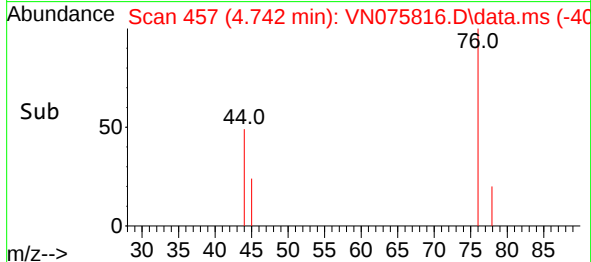
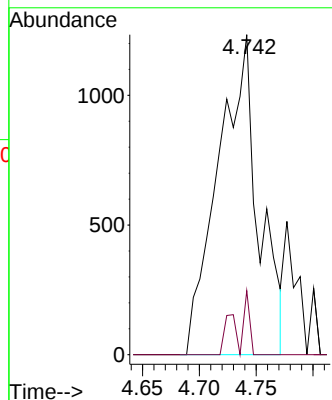
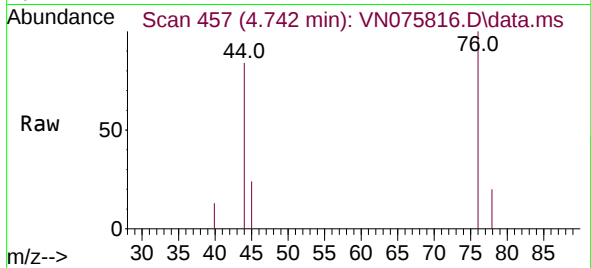




#17
Carbon Disulfide
Concen: 0.369 ug/l
RT: 4.742 min Scan# 41
Delta R.T. 0.024 min
Lab File: VN075816.D
Acq: 15 Dec 2022 14:35

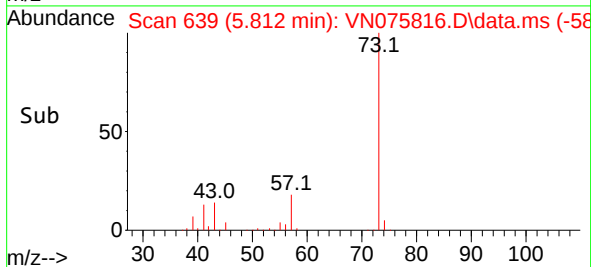
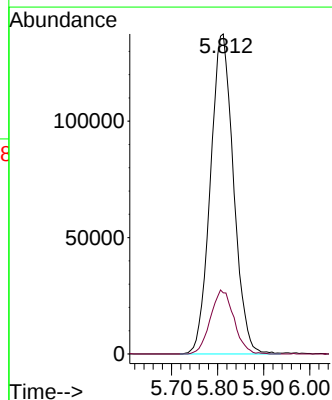
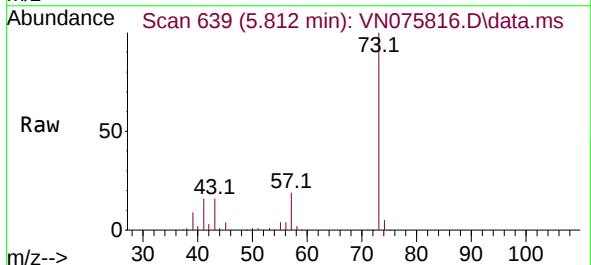
Instrument :
MSVOA_N
ClientSampleId :
DUP120722-1

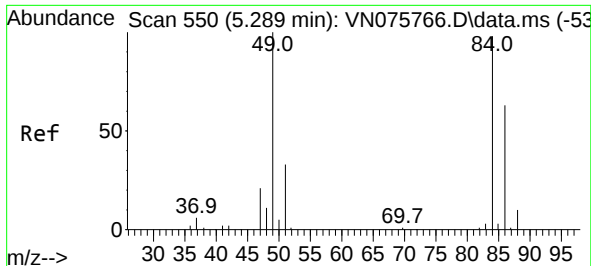
Tgt Ion: 76 Resp: 3032
Ion Ratio Lower Upper
76 100
78 20.0 6.8 10.2#



#19
Methyl tert-butyl Ether
Concen: 42.892 ug/l
RT: 5.812 min Scan# 639
Delta R.T. 0.006 min
Lab File: VN075816.D
Acq: 15 Dec 2022 14:35

Tgt Ion: 73 Resp: 478844
Ion Ratio Lower Upper
73 100
57 19.1 17.1 25.7

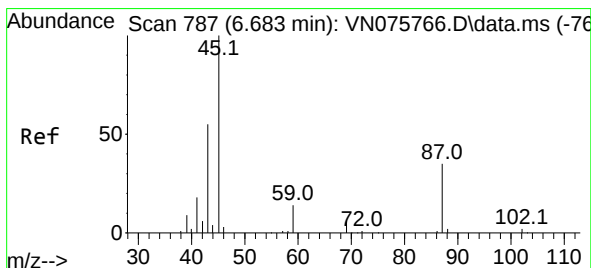
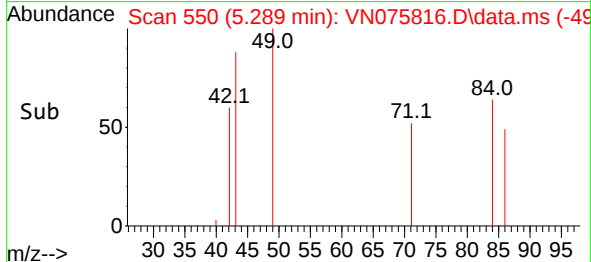
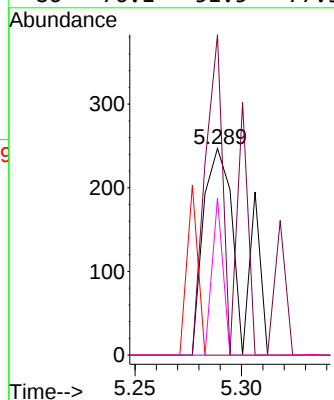
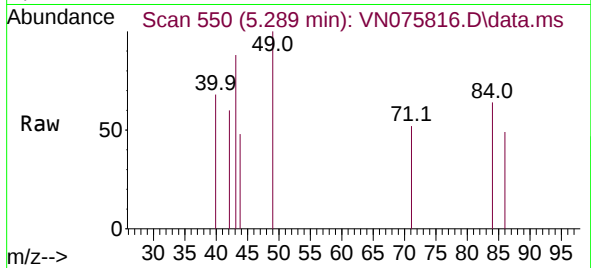




#20
Methylene Chloride
Concen: Below Cal
RT: 5.289 min Scan# 511
Delta R.T. -0.000 min
Lab File: VN075816.D
Acq: 15 Dec 2022 14:35

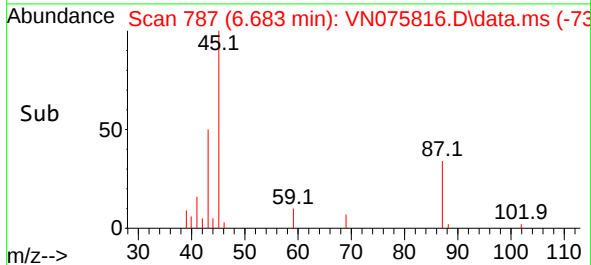
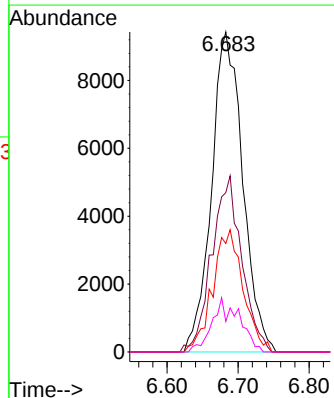
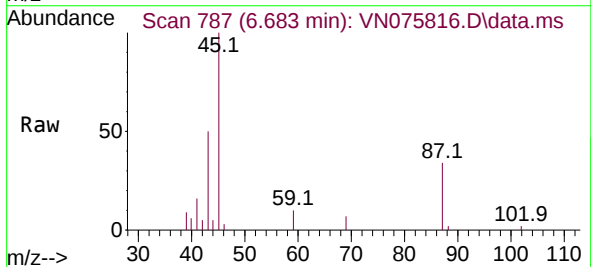
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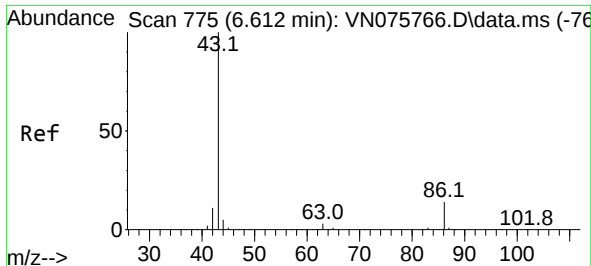
Tgt Ion:	84	Resp:	294
Ion	Ratio	Lower	Upper
84	100		
49	155.1	81.8	122.6#
51	0.0	26.7	40.1#
86	76.1	51.5	77.3



#22
Diisopropyl ether
Concen: 2.984 ug/l
RT: 6.683 min Scan# 787
Delta R.T. 0.000 min
Lab File: VN075816.D
Acq: 15 Dec 2022 14:35

Tgt Ion:	45	Resp:	28731
Ion	Ratio	Lower	Upper
45	100		
43	49.8	44.2	66.4
87	33.9	28.3	42.5
59	9.6	11.1	16.7#

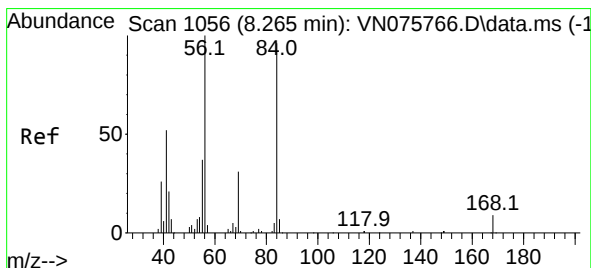
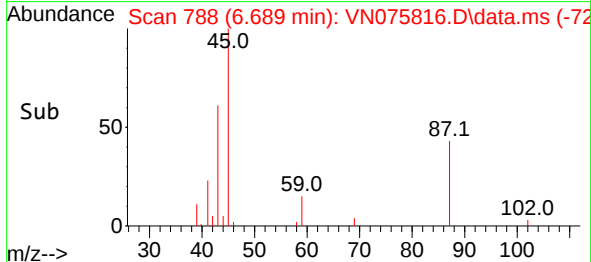
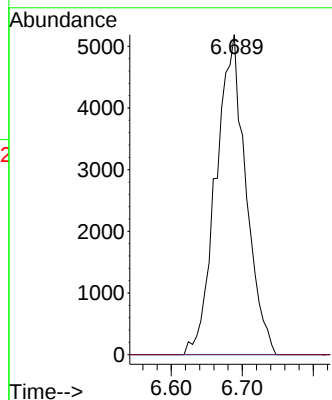
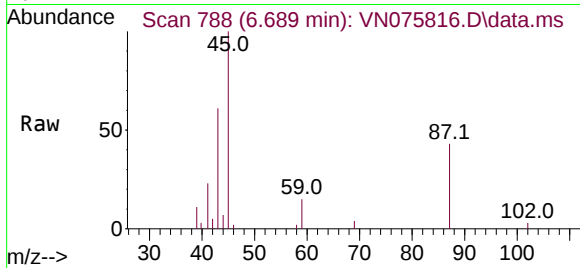




#23
 Vinyl Acetate
 Concen: 2.341 ug/l
 RT: 6.689 min Scan# 71
 Delta R.T. 0.077 min
 Lab File: VN075816.D
 Acq: 15 Dec 2022 14:35

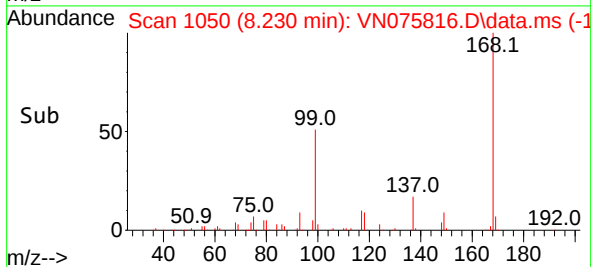
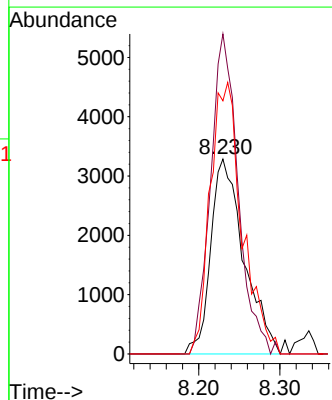
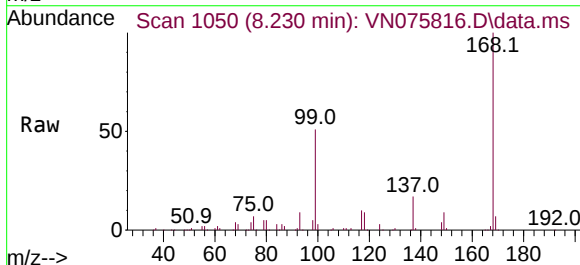
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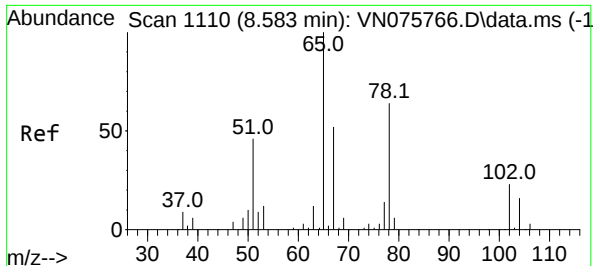
Tgt Ion: 43 Resp: 15172
 Ion Ratio Lower Upper
 43 100
 86 0.0 11.4 17.2#



#31
 Cyclohexane
 Concen: 1.568 ug/l
 RT: 8.230 min Scan# 1050
 Delta R.T. -0.035 min
 Lab File: VN075816.D
 Acq: 15 Dec 2022 14:35

Tgt Ion: 56 Resp: 9342
 Ion Ratio Lower Upper
 56 100
 69 164.3 24.7 37.1#
 84 130.0 76.5 114.7#





#33

1,2-Dichloroethane-d4

Concen: 47.048 ug/l

RT: 8.588 min Scan# 1110

Delta R.T. 0.006 min

Lab File: VN075816.D

Acq: 15 Dec 2022 14:35

Instrument :

MSVOA_N

ClientSampleId :

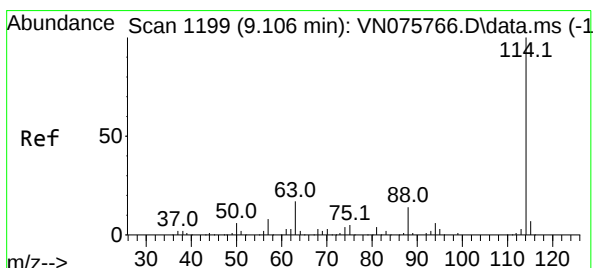
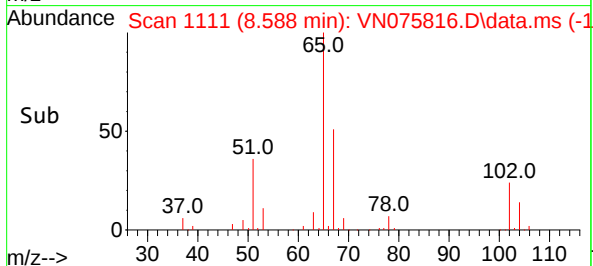
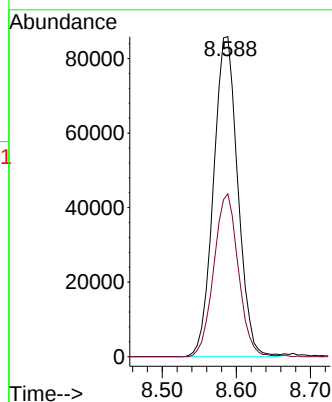
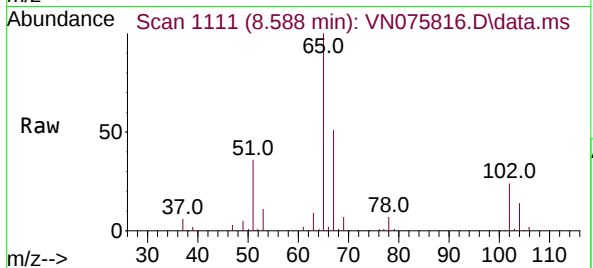
DUP120722-1

Tgt Ion: 65 Resp: 195782

Ion Ratio Lower Upper

65 100

67 51.2 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. 0.000 min

Lab File: VN075816.D

Acq: 15 Dec 2022 14:35

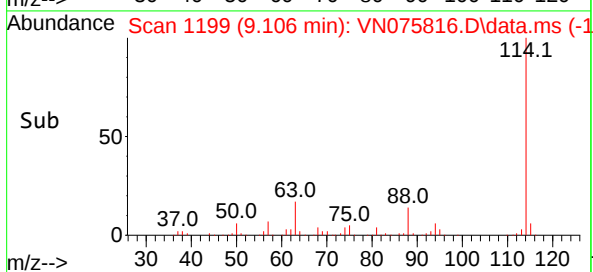
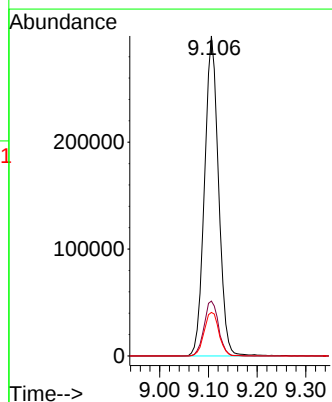
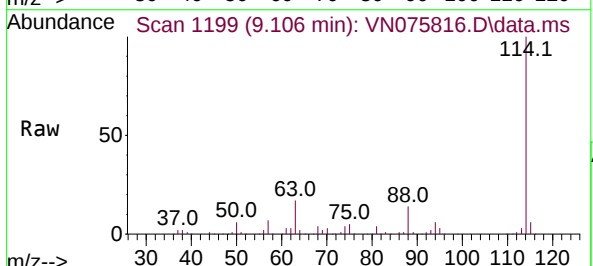
Tgt Ion: 114 Resp: 596955

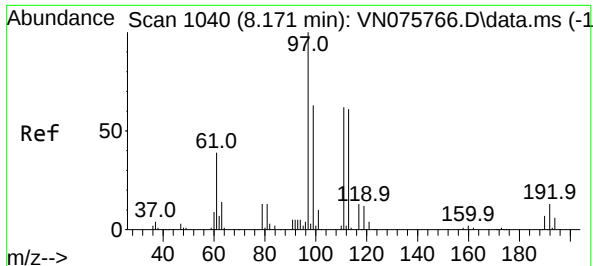
Ion Ratio Lower Upper

114 100

63 17.2 0.0 34.4

88 13.6 0.0 28.8





#35

Dibromofluoromethane

Concen: 47.958 ug/l

RT: 8.171 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN075816.D

Acq: 15 Dec 2022 14:35

Instrument :

MSVOA_N

ClientSampleId :

DUP120722-1

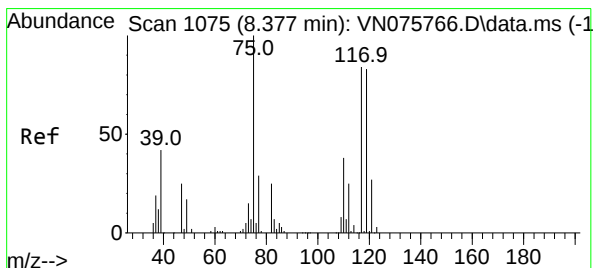
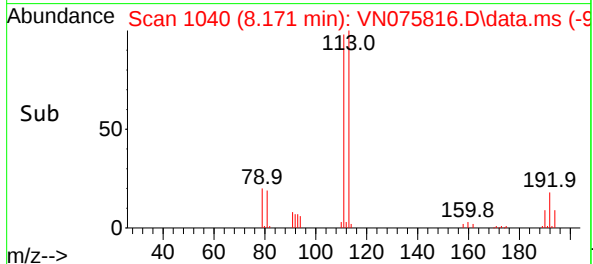
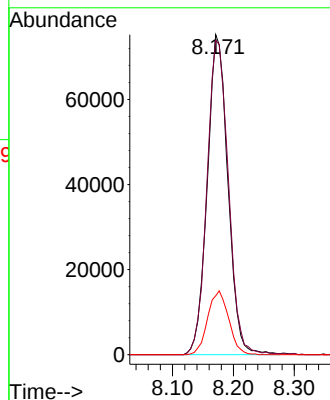
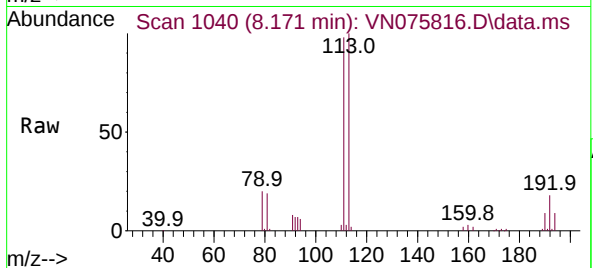
Tgt Ion:113 Resp: 177293

Ion Ratio Lower Upper

113 100

111 101.9 83.4 125.2

192 20.3 16.1 24.1



#36

1,1-Dichloropropene

Concen: 5.305 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.147 min

Lab File: VN075816.D

Acq: 15 Dec 2022 14:35

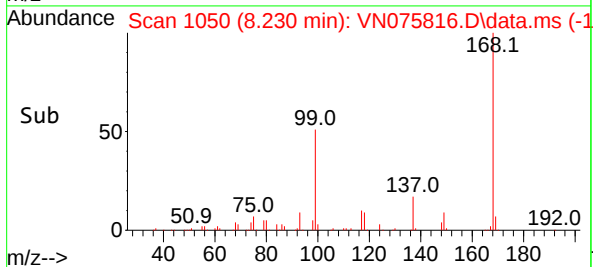
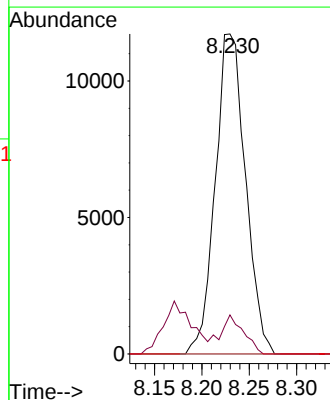
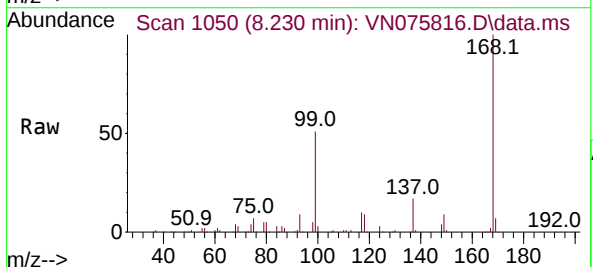
Tgt Ion: 75 Resp: 26051

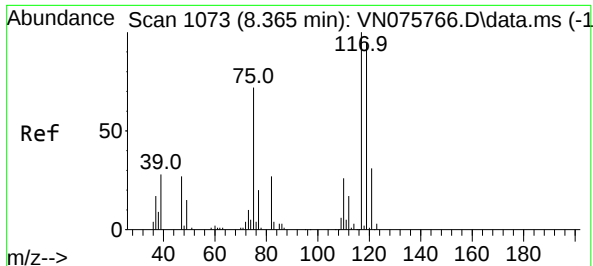
Ion Ratio Lower Upper

75 100

110 9.4 18.8 56.4#

77 0.0 24.1 36.1#

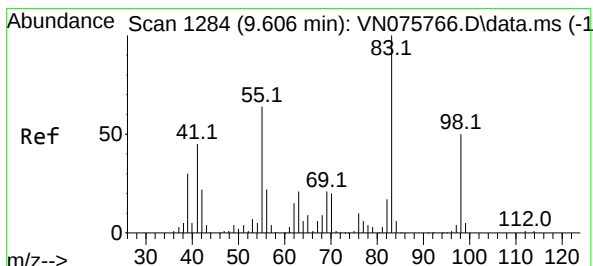
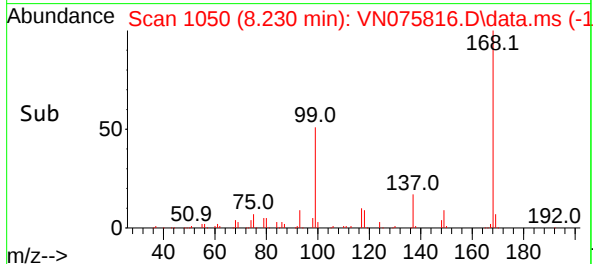
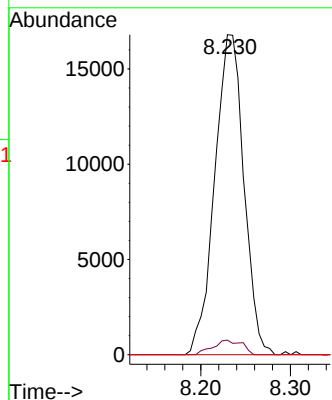
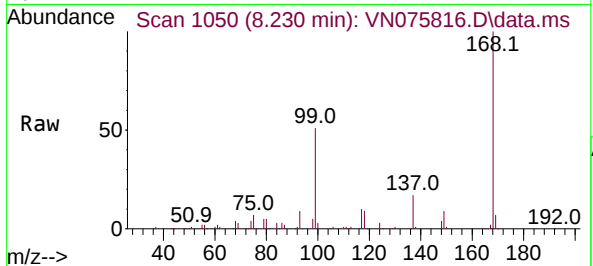




#38
Carbon Tetrachloride
Concen: 6.899 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.135 min
Lab File: VN075816.D
Acq: 15 Dec 2022 14:35

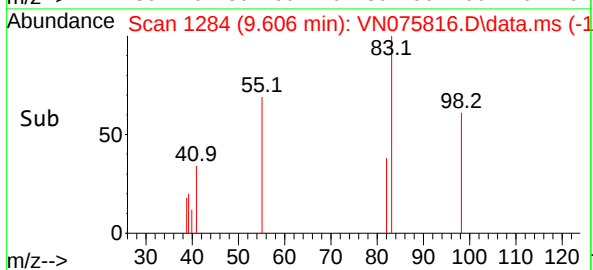
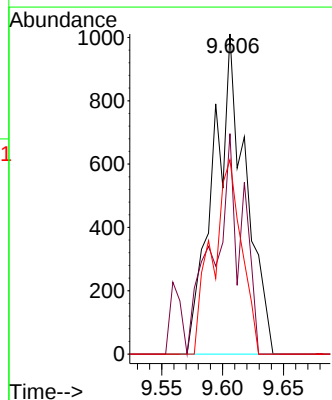
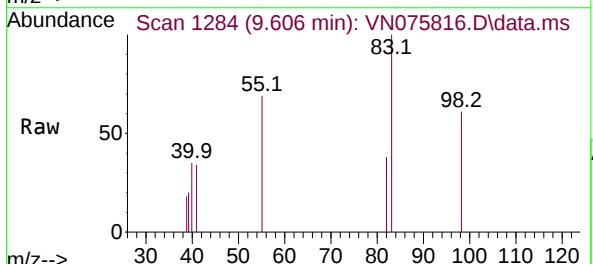
Instrument :
MSVOA_N
ClientSampleId :
DUP120722-1

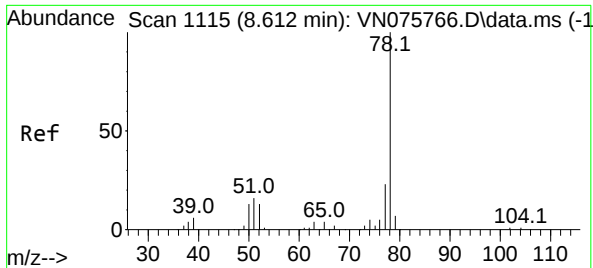
Tgt Ion:117 Resp: 37917
Ion Ratio Lower Upper
117 100
119 4.6 76.1 114.1#
121 0.0 24.5 36.7#



#39
Methylcyclohexane
Concen: 0.316 ug/l
RT: 9.606 min Scan# 1284
Delta R.T. 0.000 min
Lab File: VN075816.D
Acq: 15 Dec 2022 14:35

Tgt Ion: 83 Resp: 1870
Ion Ratio Lower Upper
83 100
55 68.8 51.4 77.0
98 60.7 39.8 59.8#

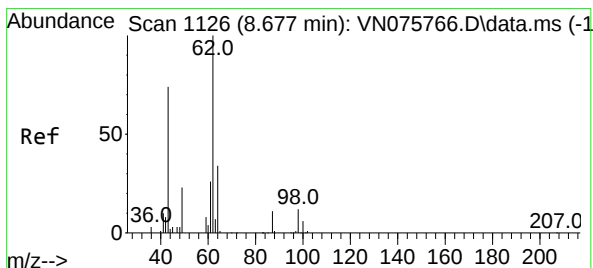
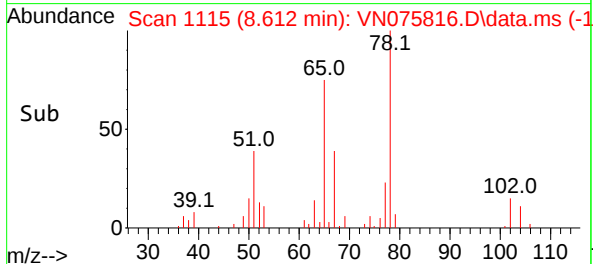
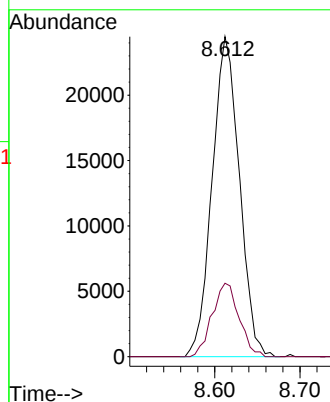
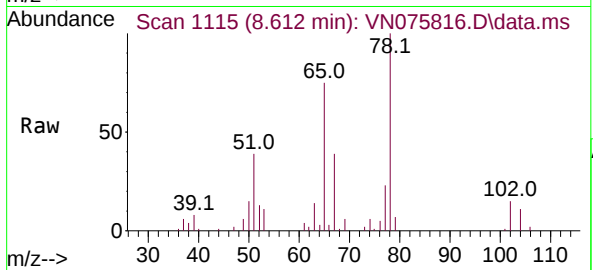




#40
Benzene
Concen: 3.581 ug/l
RT: 8.612 min Scan# 1115
Delta R.T. 0.000 min
Lab File: VN075816.D
Acq: 15 Dec 2022 14:35

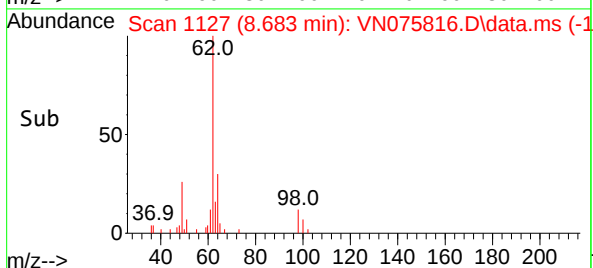
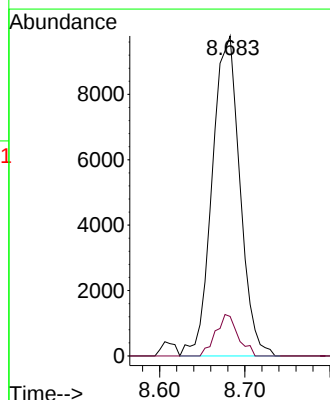
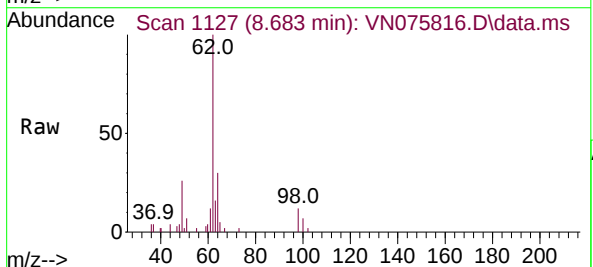
Instrument :
MSVOA_N
ClientSampleId :
DUP120722-1

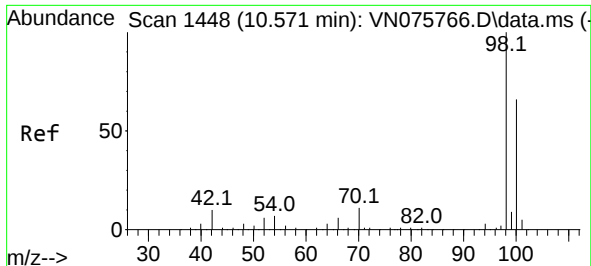
Tgt Ion: 78 Resp: 54258
Ion Ratio Lower Upper
78 100
77 23.0 18.5 27.7



#42
1,2-Dichloroethane
Concen: 4.388 ug/l
RT: 8.683 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN075816.D
Acq: 15 Dec 2022 14:35

Tgt Ion: 62 Resp: 22104
Ion Ratio Lower Upper
62 100
98 10.4 0.0 20.8

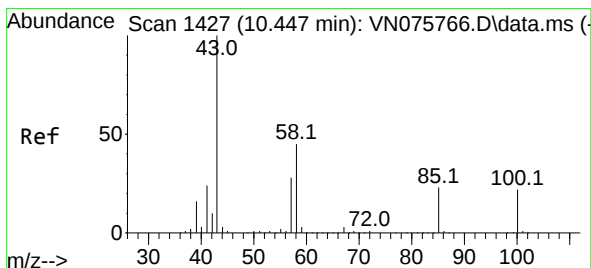
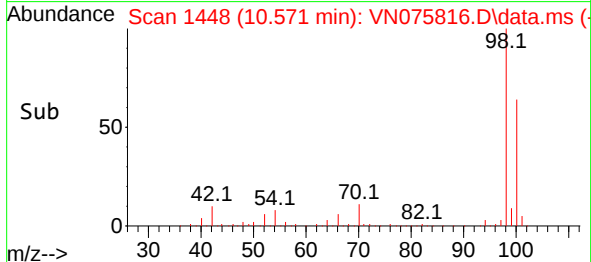
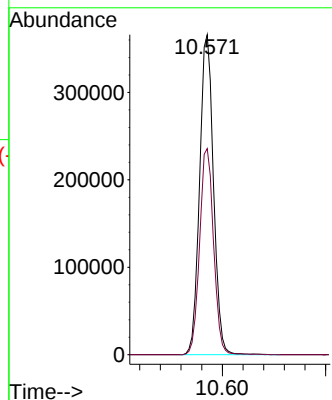
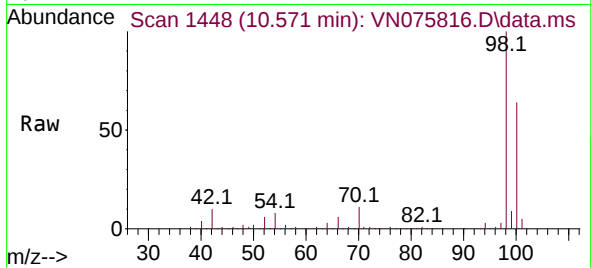




#50
Toluene-d8
Concen: 49.247 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. 0.000 min
Lab File: VN075816.D
Acq: 15 Dec 2022 14:35

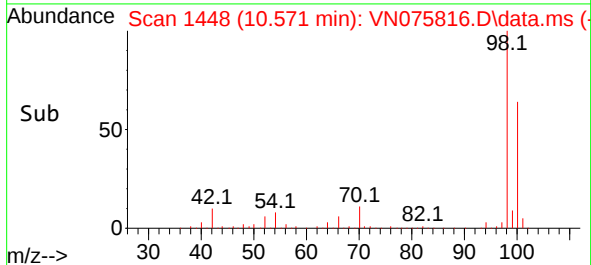
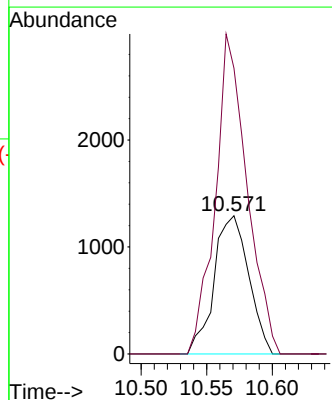
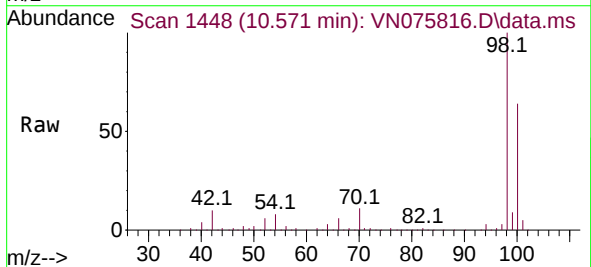
Instrument :
MSVOA_N
ClientSampleId :
DUP120722-1

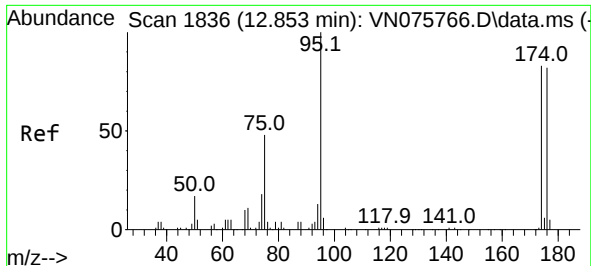
Tgt Ion: 98 Resp: 680697
Ion Ratio Lower Upper
98 100
100 64.8 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 0.602 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. 0.124 min
Lab File: VN075816.D
Acq: 15 Dec 2022 14:35

Tgt Ion: 43 Resp: 2368
Ion Ratio Lower Upper
43 100
58 212.2 35.5 53.3#

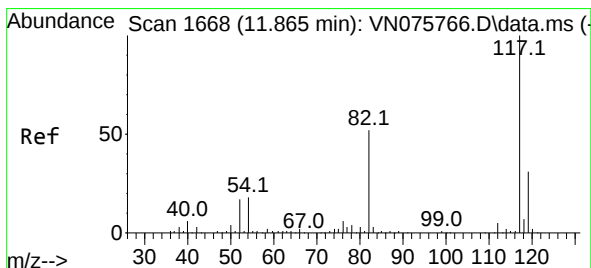
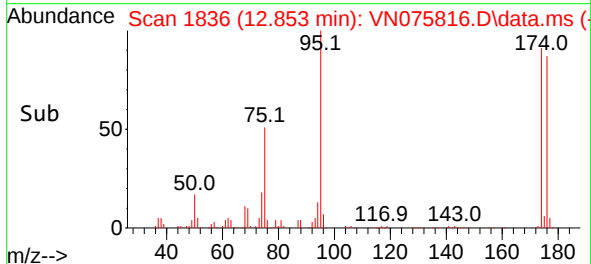
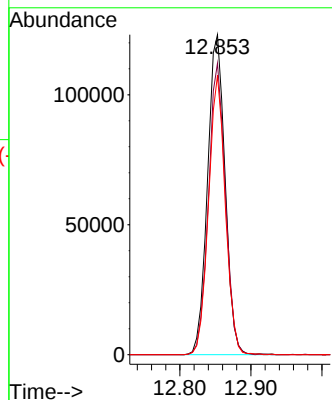
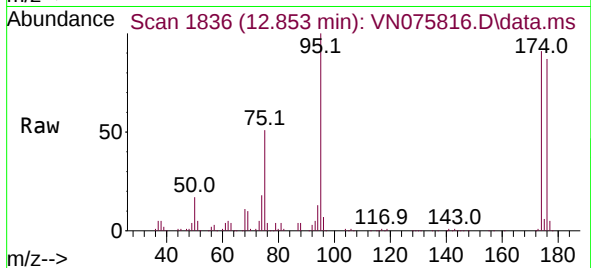




#62
4-Bromofluorobenzene
Concen: 46.129 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.000 min
Lab File: VN075816.D
Acq: 15 Dec 2022 14:35

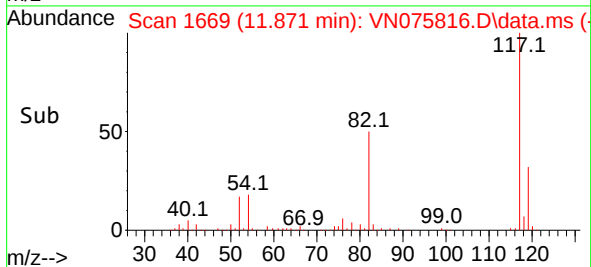
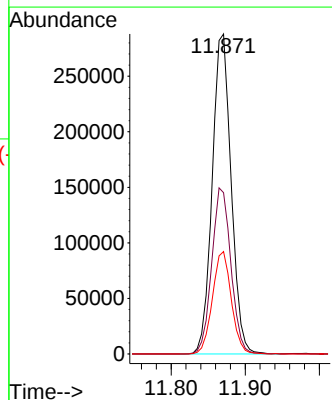
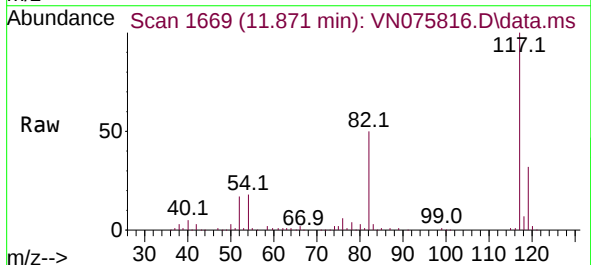
Instrument :
MSVOA_N
ClientSampleId :
DUP120722-1

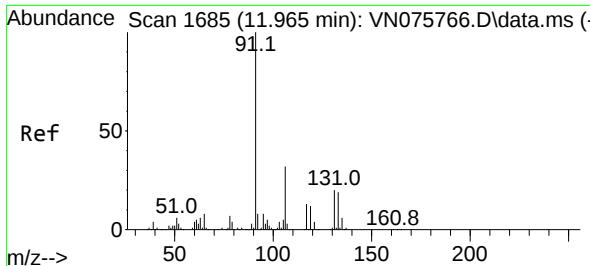
Tgt Ion: 95 Resp: 211182
Ion Ratio Lower Upper
95 100
174 88.1 0.0 171.6
176 83.6 0.0 169.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1669
Delta R.T. 0.006 min
Lab File: VN075816.D
Acq: 15 Dec 2022 14:35

Tgt Ion: 117 Resp: 510805
Ion Ratio Lower Upper
117 100
82 50.4 41.3 61.9
119 32.0 24.6 37.0

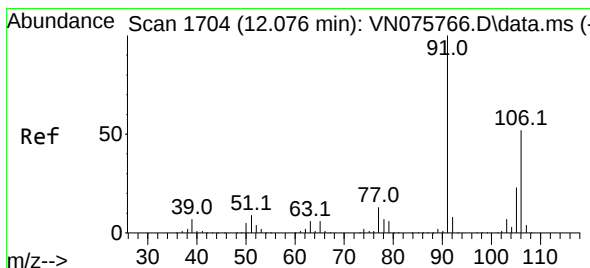
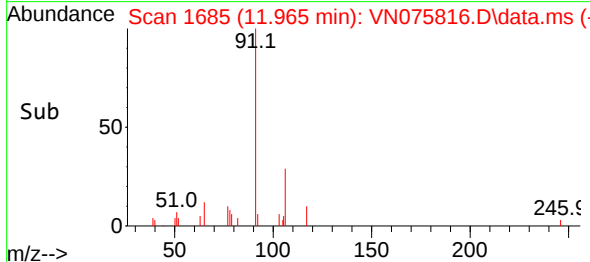
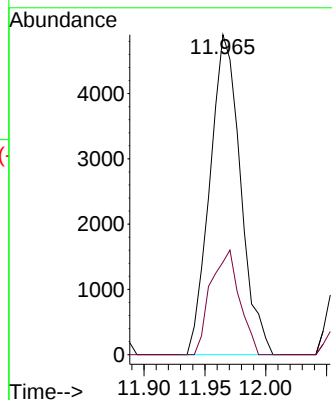
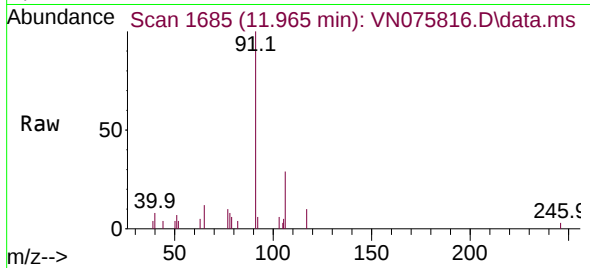




#67
Ethyl Benzene
Concen: 0.486 ug/l
RT: 11.965 min Scan# 1105
Delta R.T. 0.000 min
Lab File: VN075816.D
Acq: 15 Dec 2022 14:35

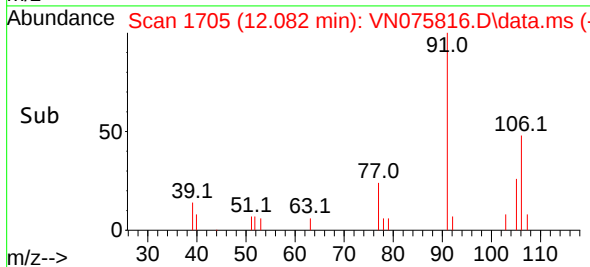
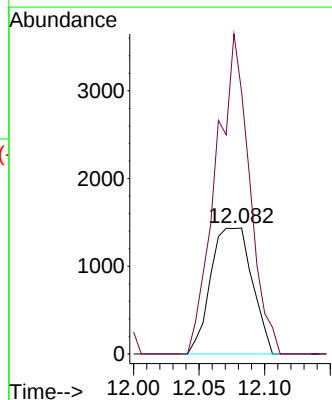
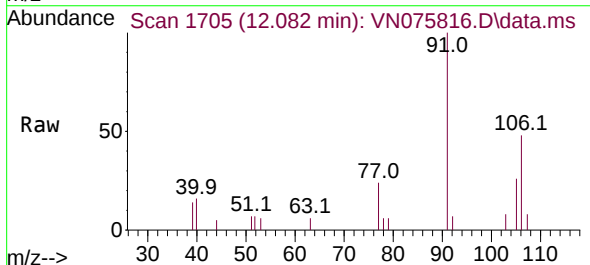
Instrument :
MSVOA_N
ClientSampleId :
DUP120722-1

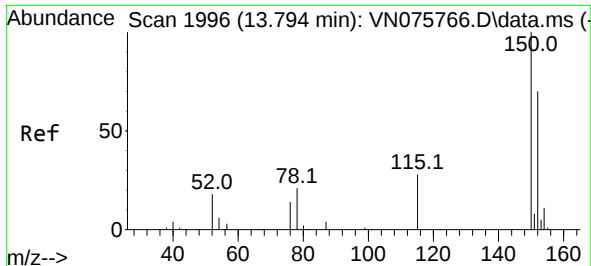
Tgt Ion: 91 Resp: 8591
Ion Ratio Lower Upper
91 100
106 28.9 25.7 38.5



#68
m/p-Xylenes
Concen: 0.450 ug/l
RT: 12.082 min Scan# 1705
Delta R.T. 0.006 min
Lab File: VN075816.D
Acq: 15 Dec 2022 14:35

Tgt Ion: 106 Resp: 3154
Ion Ratio Lower Upper
106 100
91 205.5 156.6 235.0

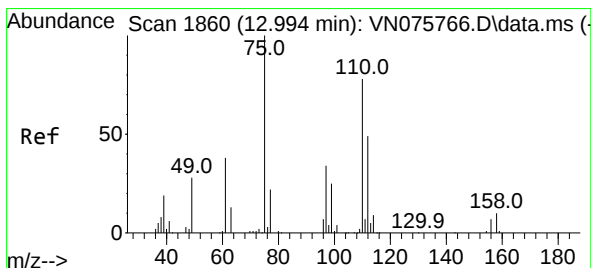
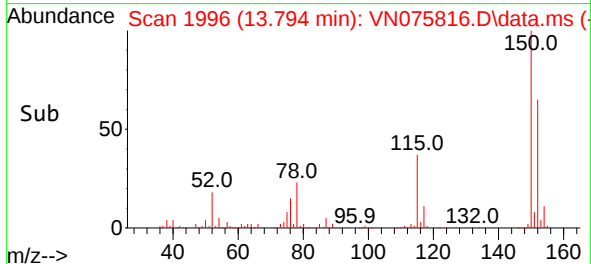
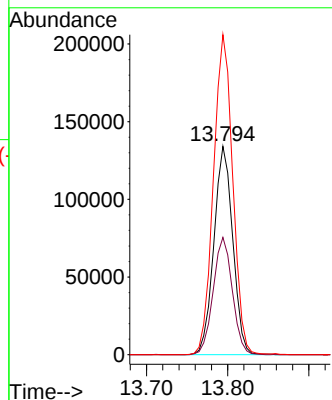
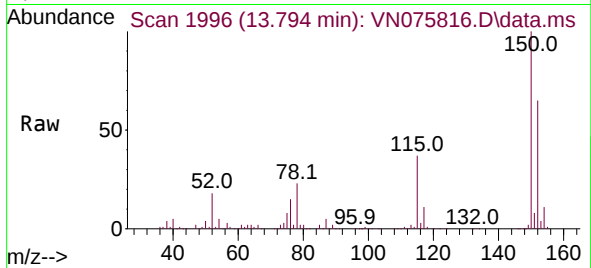




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 1996
 Delta R.T. 0.000 min
 Lab File: VN075816.D
 Acq: 15 Dec 2022 14:35

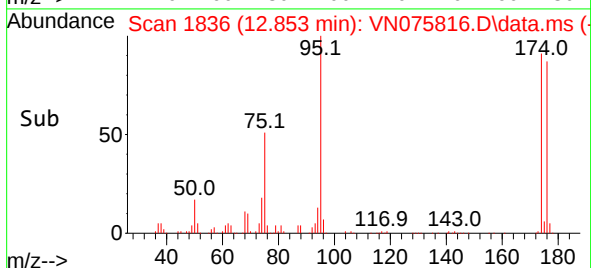
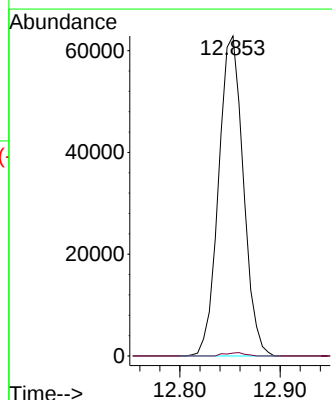
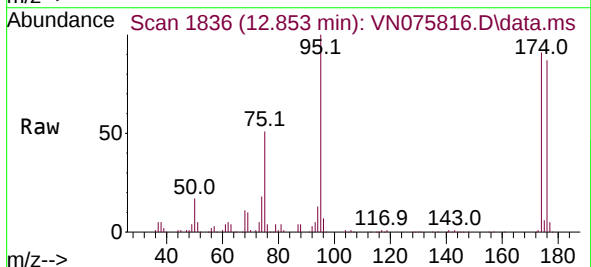
Instrument :
 MSVOA_N
 ClientSampleId :
 DUP120722-1

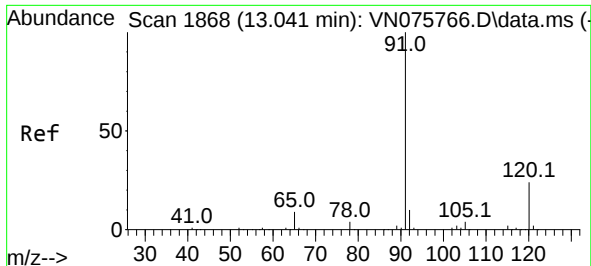
Tgt Ion:152 Resp: 216651
 Ion Ratio Lower Upper
 152 100
 115 57.0 29.1 87.4
 150 157.2 0.0 347.0



#76
 1,2,3-Trichloropropane
 Concen: 24.598 ug/l
 RT: 12.853 min Scan# 1836
 Delta R.T. -0.141 min
 Lab File: VN075816.D
 Acq: 15 Dec 2022 14:35

Tgt Ion: 75 Resp: 107422
 Ion Ratio Lower Upper
 75 100
 77 0.8 82.6 247.8#

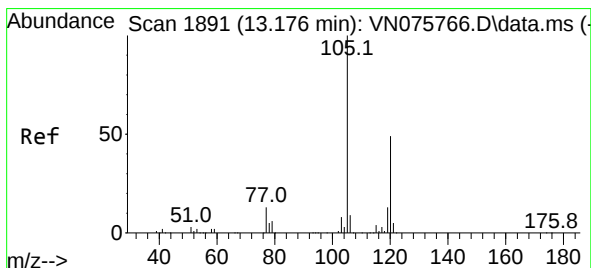
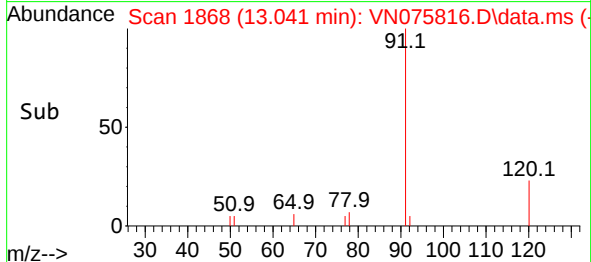
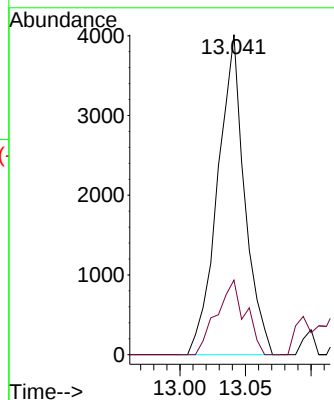
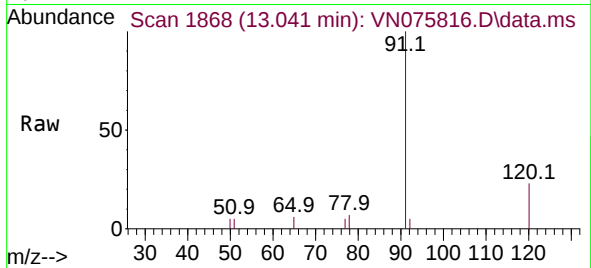




#78
 n-propylbenzene
 Concen: 0.332 ug/l
 RT: 13.041 min Scan# 1868
 Delta R.T. 0.000 min
 Lab File: VN075816.D
 Acq: 15 Dec 2022 14:35

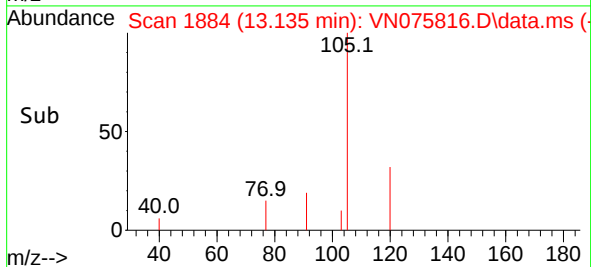
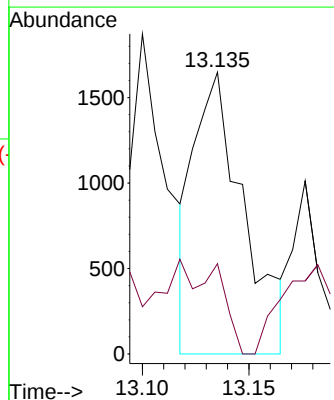
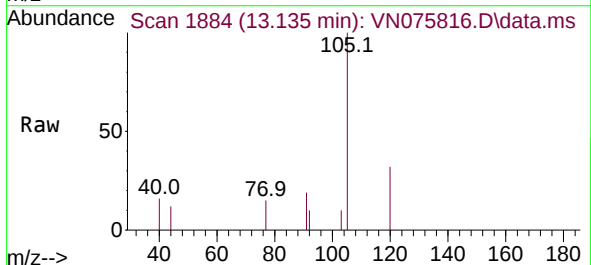
Instrument :
 MSVOA_N
 ClientSampleId :
 DUP120722-1

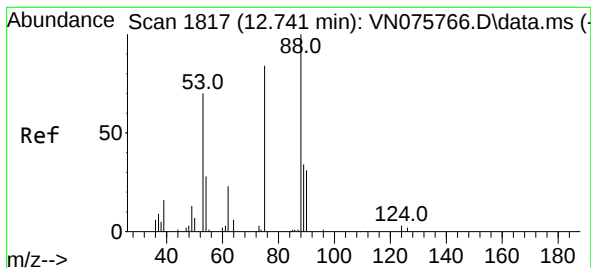
Tgt Ion: 91 Resp: 5737
 Ion Ratio Lower Upper
 91 100
 120 24.9 12.0 36.1



#80
 1,3,5-Trimethylbenzene
 Concen: 0.205 ug/l
 RT: 13.135 min Scan# 1884
 Delta R.T. -0.041 min
 Lab File: VN075816.D
 Acq: 15 Dec 2022 14:35

Tgt Ion: 105 Resp: 2682
 Ion Ratio Lower Upper
 105 100
 120 27.7 24.7 74.1

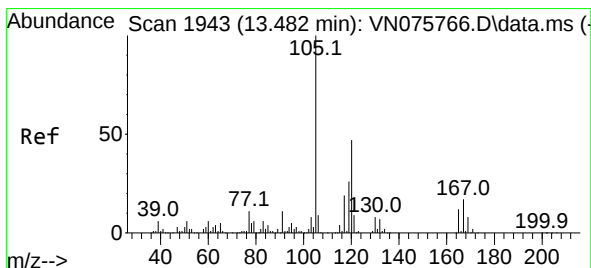
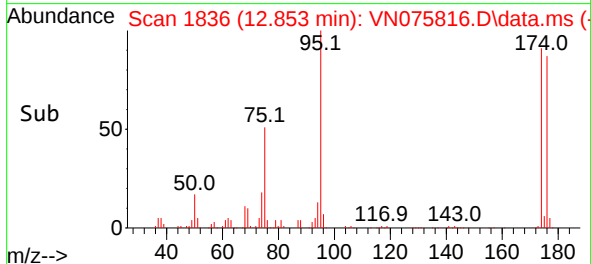
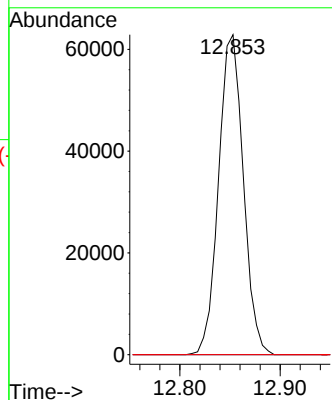
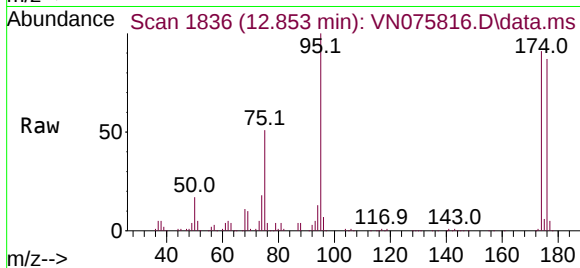




#81
trans-1,4-Dichloro-2-butene
Concen: 88.539 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.112 min
Lab File: VN075816.D
Acq: 15 Dec 2022 14:35

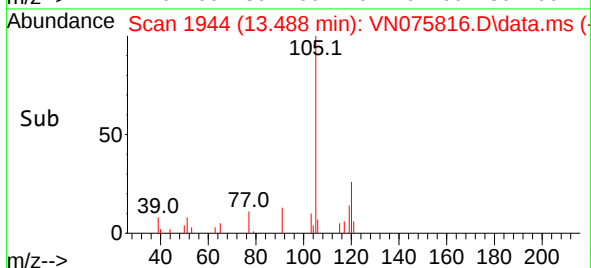
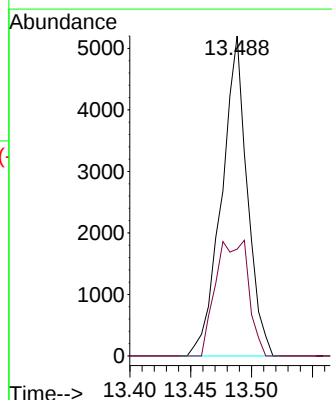
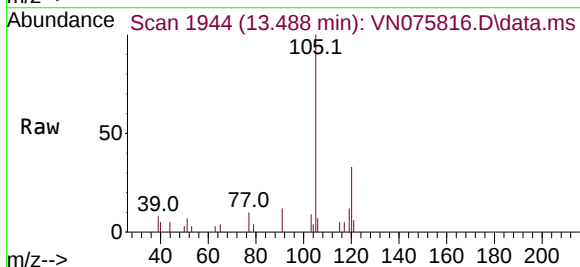
Instrument :
MSVOA_N
ClientSampleId :
DUP120722-1

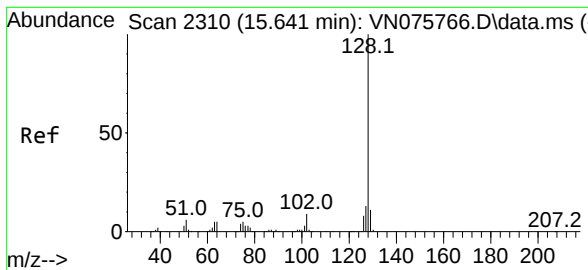
Tgt Ion: 75 Resp: 107422
Ion Ratio Lower Upper
75 100
53 0.0 73.8 110.6#
89 0.0 39.5 59.3#



#84
1,2,4-Trimethylbenzene
Concen: 0.586 ug/l
RT: 13.488 min Scan# 1944
Delta R.T. 0.006 min
Lab File: VN075816.D
Acq: 15 Dec 2022 14:35

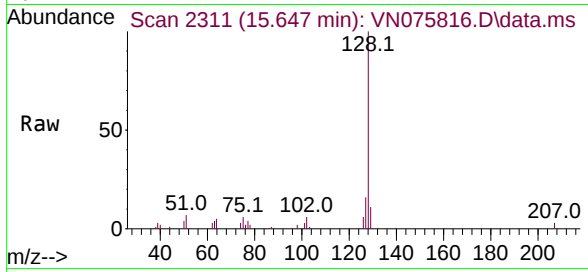
Tgt Ion:105 Resp: 7613
Ion Ratio Lower Upper
105 100
120 46.2 23.3 69.8





#95
Naphthalene
Concen: 4.289 ug/l
RT: 15.647 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN075816.D
Acq: 15 Dec 2022 14:35

Instrument :
MSVOA_N
ClientSampleId :
DUP120722-1



Tgt Ion:	128	Resp:	26025
Ion Ratio	Lower	Upper	
128	100		
127	12.5	10.4	15.6
129	10.6	8.7	13.1

