

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061724\
 Data File : VN082616.D
 Acq On : 17 Jun 2024 18:13
 Operator : JC\MD
 Sample : P2878-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 348

Quant Time: Jun 18 18:40:18 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N061724W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 18 04:52:44 2024
 Response via : Initial Calibration

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

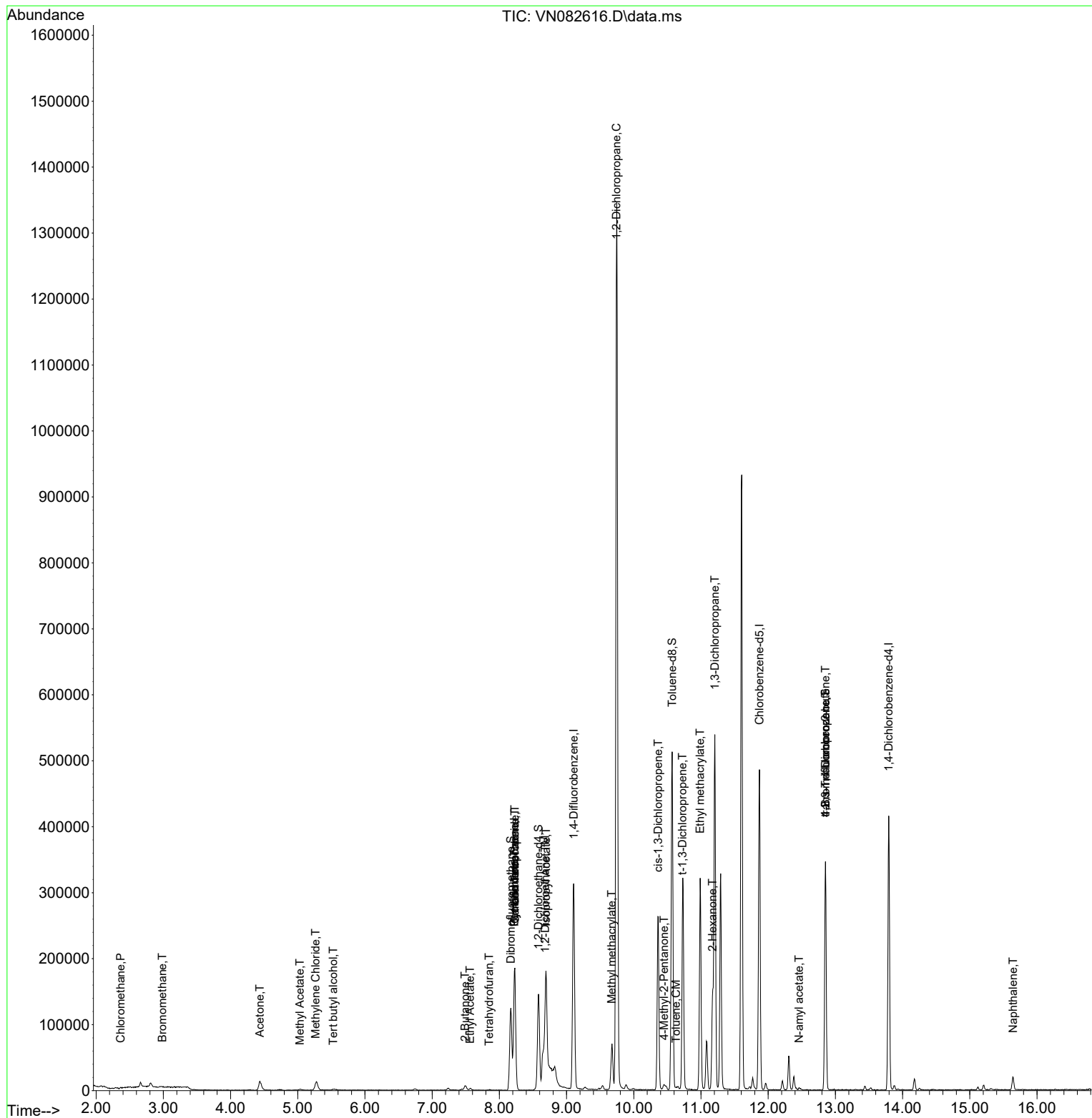
Internal Standards						
1) Pentafluorobenzene	8.224	168	128220	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	249129	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	254052	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	103665	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	119413	58.075	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 116.160%			
35) Dibromofluoromethane	8.171	113	87853	51.982	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.960%			
50) Toluene-d8	10.571	98	329075	51.489	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.980%			
62) 4-Bromofluorobenzene	12.853	95	108731	49.345	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 98.700%			
Target Compounds						Qvalue
3) Chloromethane	2.365	50	511	0.238	ug/l #	53
5) Bromomethane	2.983	94	450	0.342	ug/l #	52
11) Tert butyl alcohol	5.530	59	1041	3.093	ug/l #	71
16) Acetone	4.436	43	25783	27.572	ug/l	100
18) Methyl Acetate	5.030	43	2803	1.226	ug/l #	60
20) Methylene Chloride	5.265	84	8637	5.254	ug/l #	78
25) 2-Butanone	7.489	43	11590	8.720	ug/l	95
29) Tetrahydrofuran	7.847	42	267	0.328	ug/l #	56
31) Cyclohexane	8.224	56	3485	1.174	ug/l #	37
36) 1,1-Dichloropropene	8.230	75	12303	4.870	ug/l #	50
37) Ethyl Acetate	7.565	43	4589	1.426	ug/l #	82
38) Carbon Tetrachloride	8.230	117	13861	4.868	ug/l #	17
42) 1,2-Dichloroethane	8.683	62	841	0.283	ug/l #	78
43) Isopropyl Acetate	8.694	43	299074	49.726	ug/l #	78
45) 1,2-Dichloropropane	9.741	63	1672	0.832	ug/l #	44
48) Methyl methacrylate	9.671	41	5186	2.092	ug/l #	53
51) 4-Methyl-2-Pentanone	10.453	43	10234	3.318	ug/l #	72
52) Toluene	10.629	92	1267	0.268	ug/l	97
53) t-1,3-Dichloropropene	10.724	75	756	0.255	ug/l #	50
54) cis-1,3-Dichloropropene	10.365	75	41503	13.519	ug/l #	66
56) Ethyl methacrylate	10.988	69	1962	0.692	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	4937	1.560	ug/l #	43
59) 2-Hexanone	11.171	43	129062	55.046	ug/l #	28
74) N-amyl acetate	12.459	43	3364	0.801	ug/l #	47
76) 1,2,3-Trichloropropane	12.853	75	62912	24.813	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	62912	59.362	ug/l #	6
95) Naphthalene	15.647	128	17759	3.052	ug/l	97

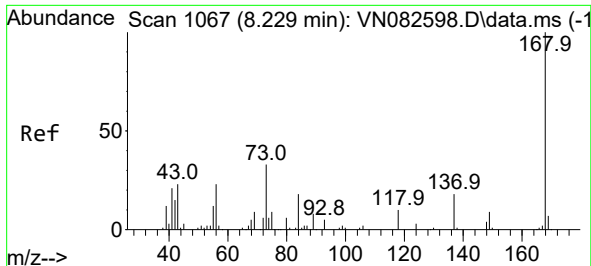
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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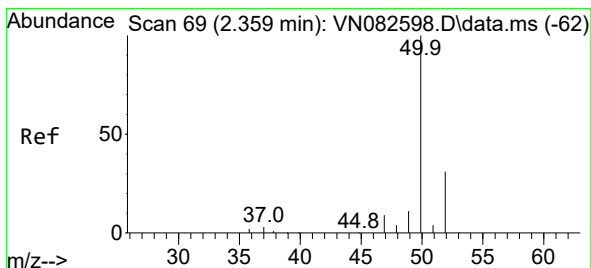
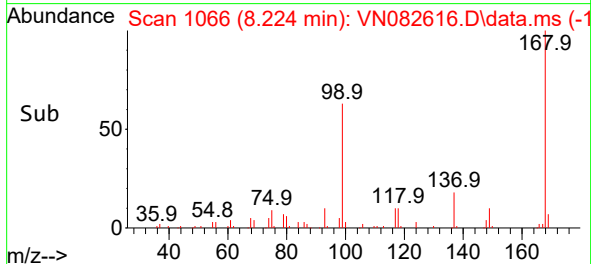
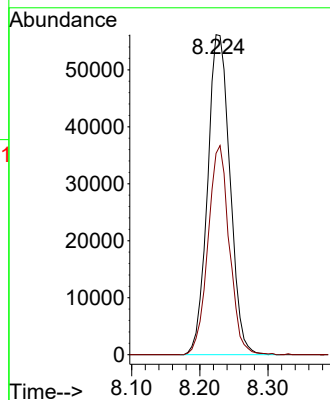
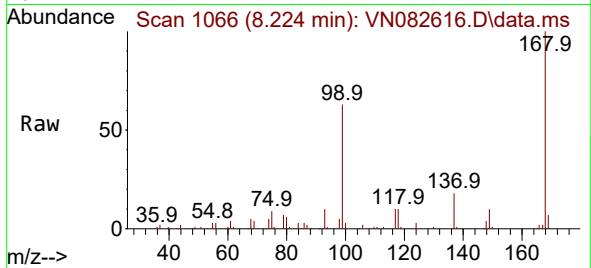




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.005 min
Lab File: VN082616.D
Acq: 17 Jun 2024 18:13

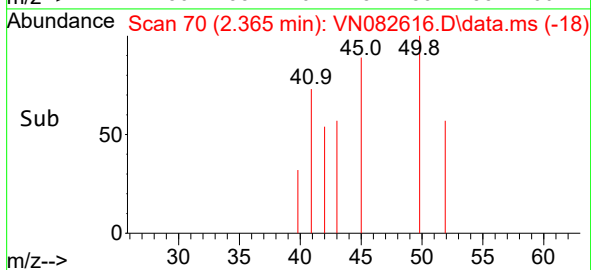
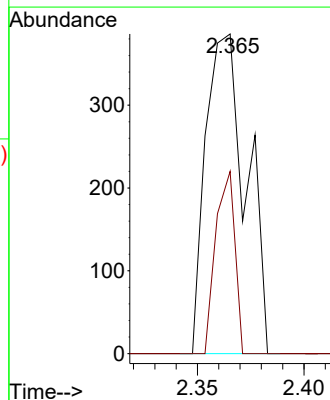
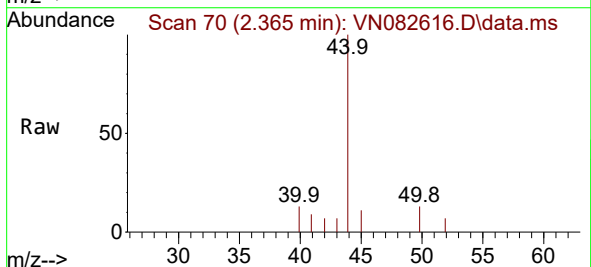
Instrument :
MSVOA_N
ClientSampleId :
348

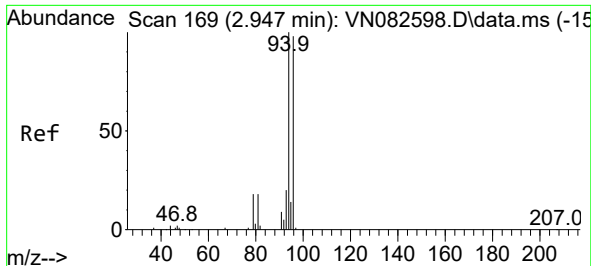
Tgt Ion:168 Resp: 128220
Ion Ratio Lower Upper
168 100
99 62.9 48.2 72.4



#3
Chloromethane
Concen: 0.238 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN082616.D
Acq: 17 Jun 2024 18:13

Tgt Ion: 50 Resp: 511
Ion Ratio Lower Upper
50 100
52 57.0 25.0 37.4#

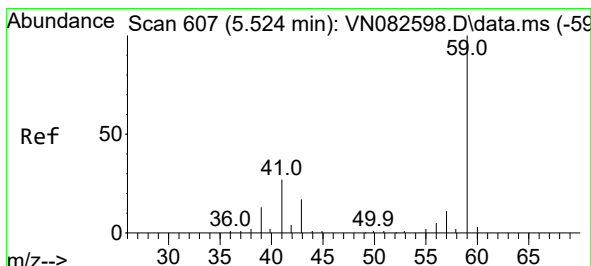
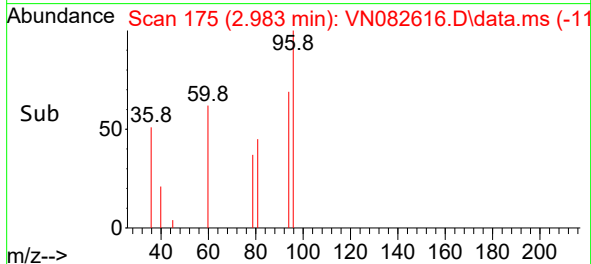
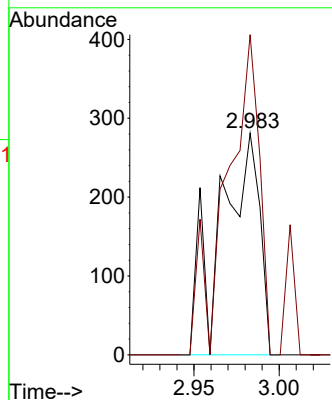
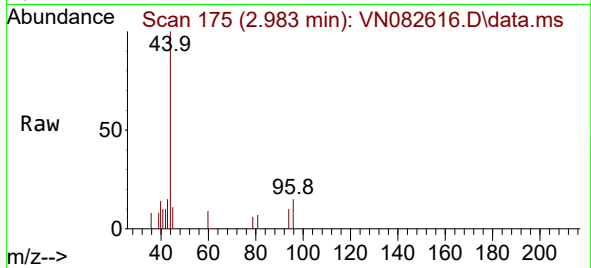




#5
Bromomethane
Concen: 0.342 ug/l
RT: 2.983 min Scan# 11
Delta R.T. 0.036 min
Lab File: VN082616.D
Acq: 17 Jun 2024 18:13

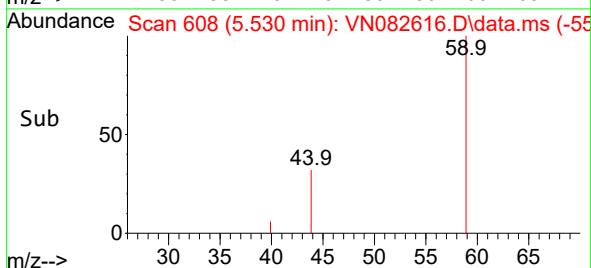
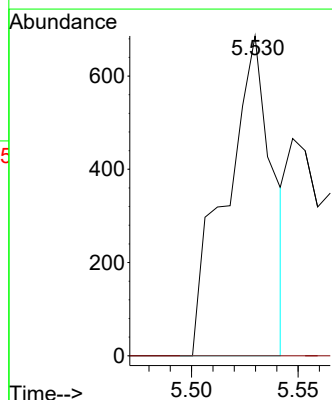
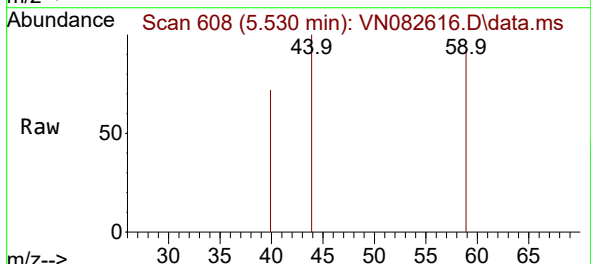
Instrument :
MSVOA_N
ClientSampleId :
348

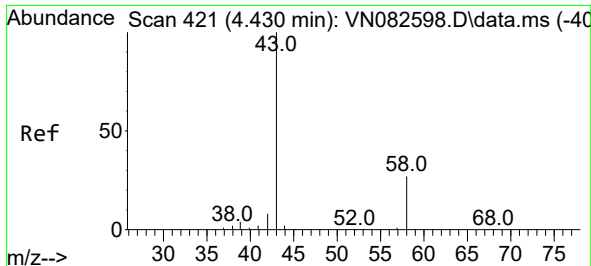
Tgt Ion: 94 Resp: 450
Ion Ratio Lower Upper
94 100
96 144.5 78.0 117.0#



#11
Tert butyl alcohol
Concen: 3.093 ug/l
RT: 5.530 min Scan# 608
Delta R.T. 0.006 min
Lab File: VN082616.D
Acq: 17 Jun 2024 18:13

Tgt Ion: 59 Resp: 1041
Ion Ratio Lower Upper
59 100
57 0.0 8.9 13.3#

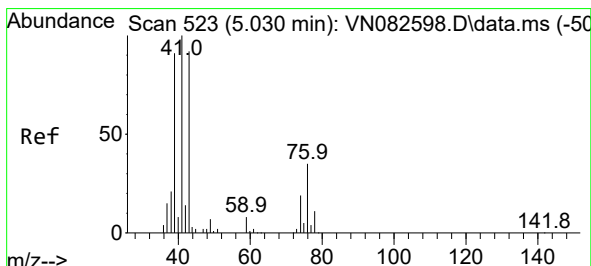
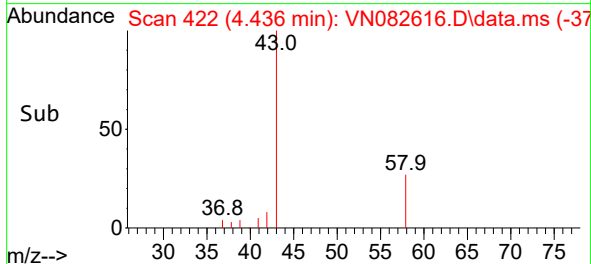
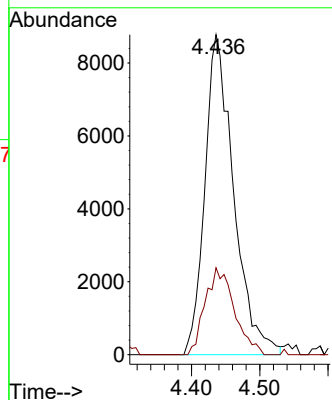
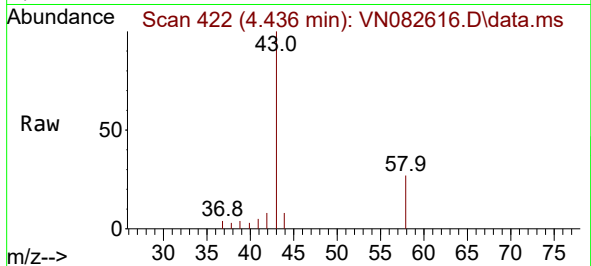




#16
Acetone
Concen: 27.572 ug/l
RT: 4.436 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN082616.D
Acq: 17 Jun 2024 18:13

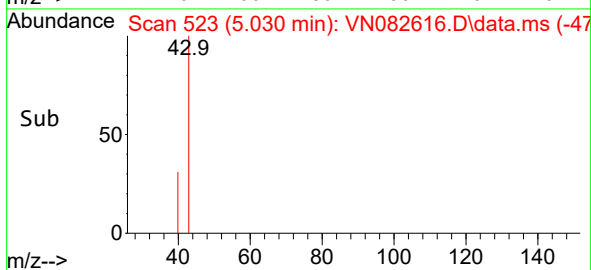
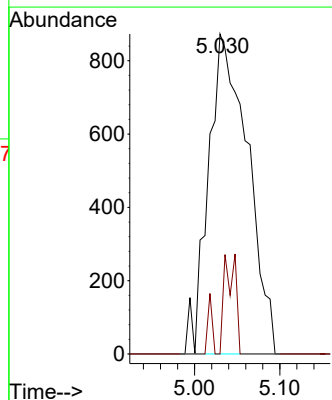
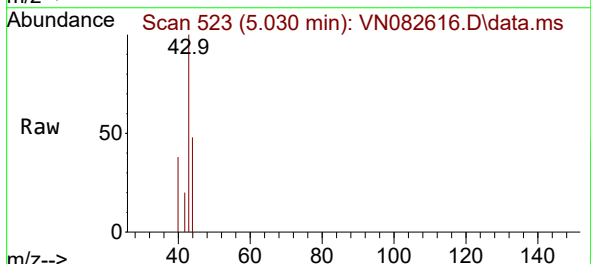
Instrument :
MSVOA_N
ClientSampleId :
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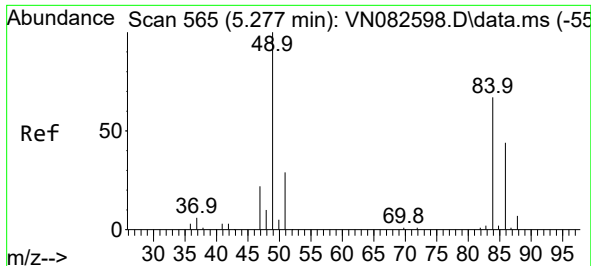
Tgt Ion: 43 Resp: 25783
Ion Ratio Lower Upper
43 100
58 27.2 21.8 32.6



#18
Methyl Acetate
Concen: 1.226 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.000 min
Lab File: VN082616.D
Acq: 17 Jun 2024 18:13

Tgt Ion: 43 Resp: 2803
Ion Ratio Lower Upper
43 100
74 2.1 16.3 24.5#

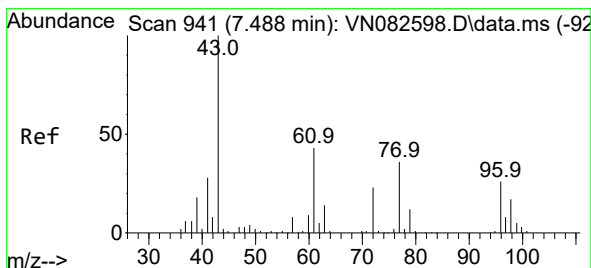
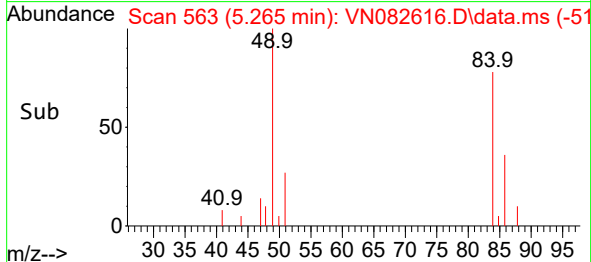
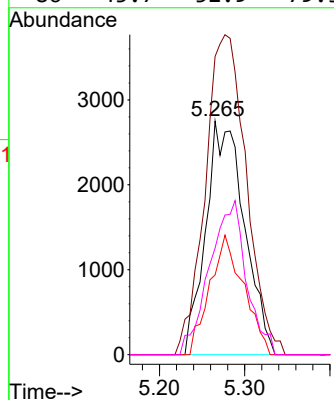
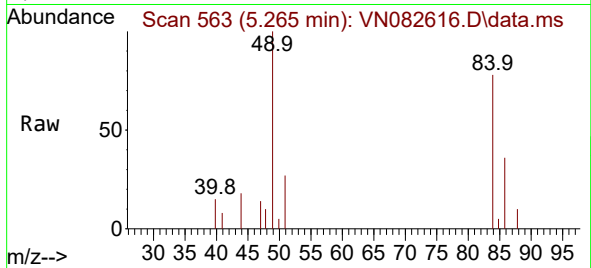




#20
Methylene Chloride
Concen: 5.254 ug/l
RT: 5.265 min Scan# 51
Delta R.T. -0.012 min
Lab File: VN082616.D
Acq: 17 Jun 2024 18:13

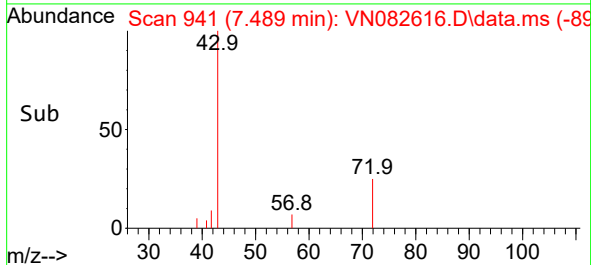
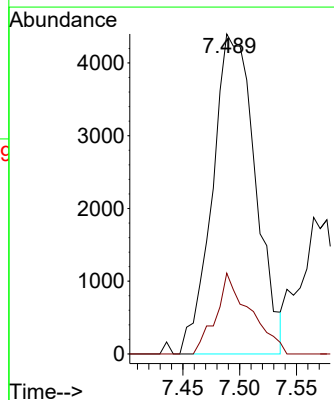
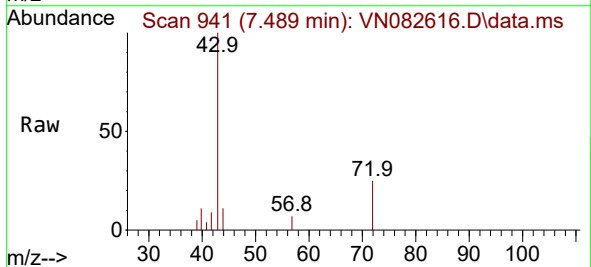
Instrument :
MSVOA_N
ClientSampleId :
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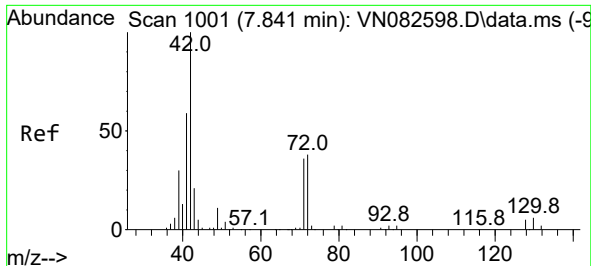
Tgt Ion:	84	Resp:	8637
Ion	Ratio	Lower	Upper
84	100		
49	122.0	119.6	179.4
51	34.2	34.8	52.2#
86	45.7	52.9	79.3#



#25
2-Butanone
Concen: 8.720 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN082616.D
Acq: 17 Jun 2024 18:13

Tgt Ion:	43	Resp:	11590
Ion	Ratio	Lower	Upper
43	100		
72	25.3	18.2	27.2





#29

Tetrahydrofuran

Concen: 0.328 ug/l

RT: 7.847 min Scan# 1066

Delta R.T. 0.006 min

Lab File: VN082616.D

Acq: 17 Jun 2024 18:13

Instrument :

MSVOA_N

ClientSampleId :

348

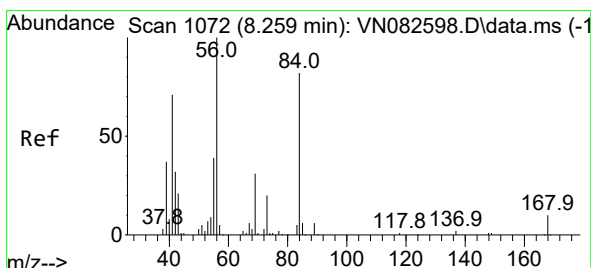
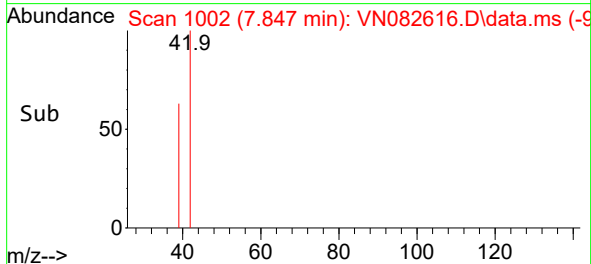
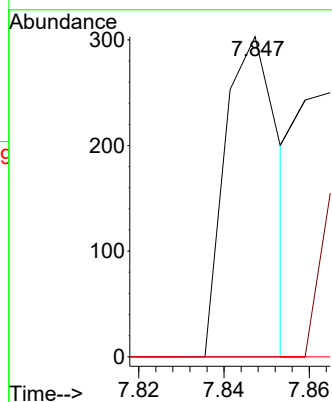
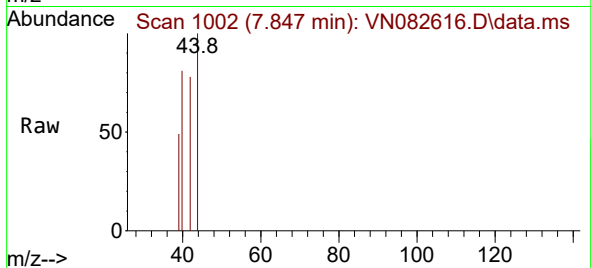
Tgt Ion: 42 Resp: 267

Ion Ratio Lower Upper

42 100

72 20.6 30.0 45.0#

71 0.0 28.3 42.5#



#31

Cyclohexane

Concen: 1.174 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.035 min

Lab File: VN082616.D

Acq: 17 Jun 2024 18:13

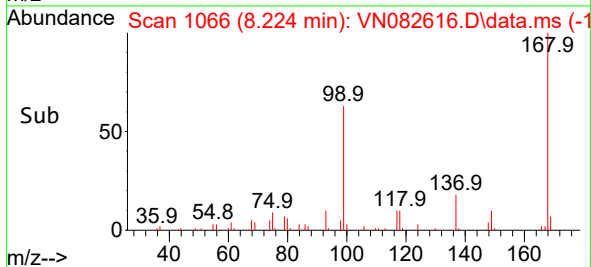
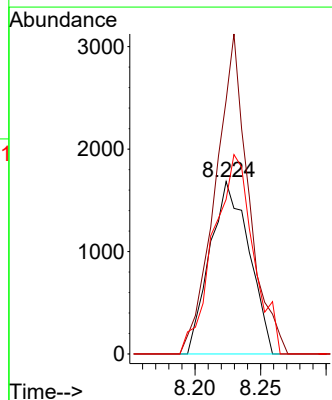
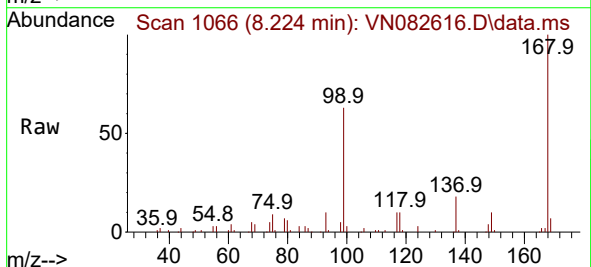
Tgt Ion: 56 Resp: 3485

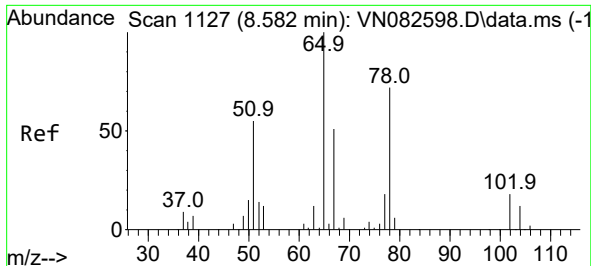
Ion Ratio Lower Upper

56 100

69 147.1 24.5 36.7#

84 89.7 66.0 99.0





#33

1,2-Dichloroethane-d4

Concen: 58.075 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN082616.D

Acq: 17 Jun 2024 18:13

Instrument :

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ClientSampleId :

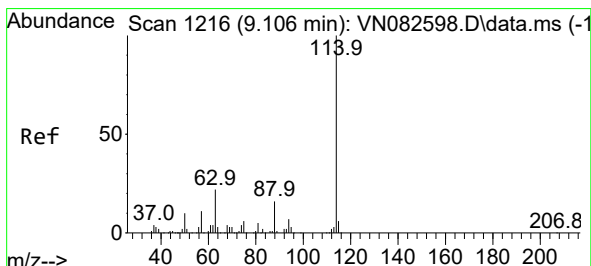
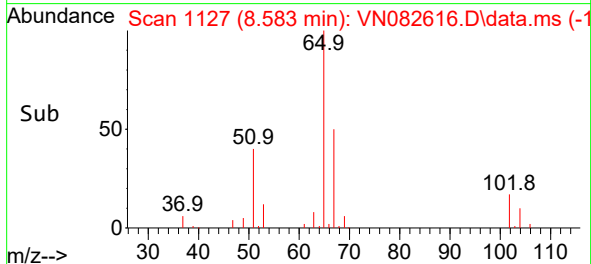
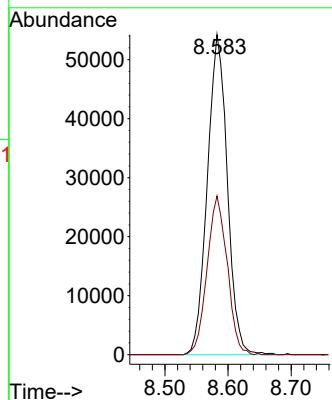
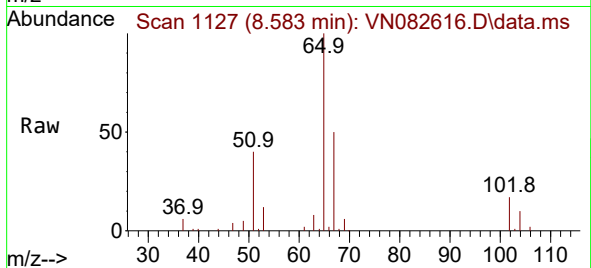
348

Tgt Ion: 65 Resp: 119413

Ion Ratio Lower Upper

65 100

67 49.8 0.0 104.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.000 min

Lab File: VN082616.D

Acq: 17 Jun 2024 18:13

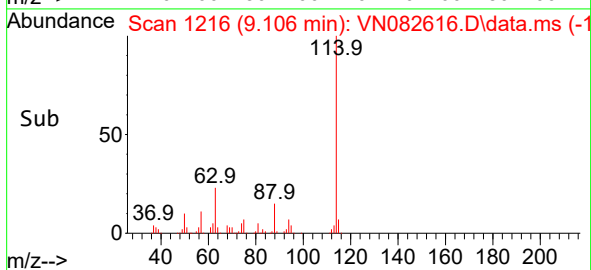
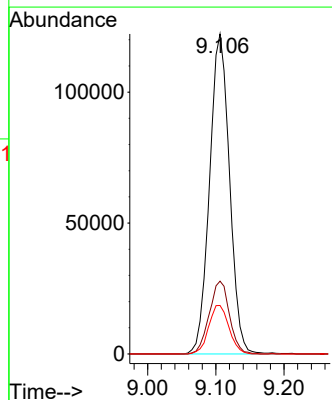
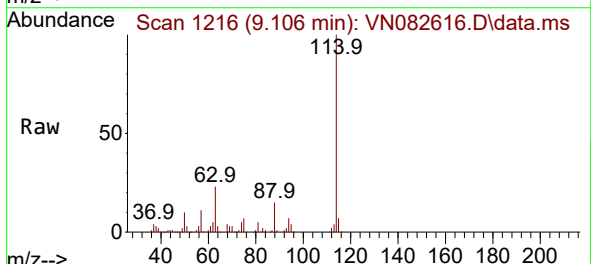
Tgt Ion: 114 Resp: 249129

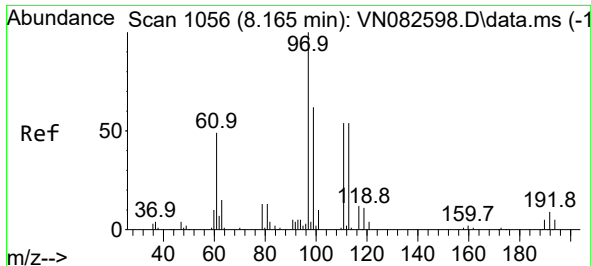
Ion Ratio Lower Upper

114 100

63 22.8 0.0 44.6

88 15.2 0.0 31.4





#35

Dibromofluoromethane

Concen: 51.982 ug/l

RT: 8.171 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN082616.D

Acq: 17 Jun 2024 18:13

Instrument :

MSVOA_N

ClientSampleId :

348

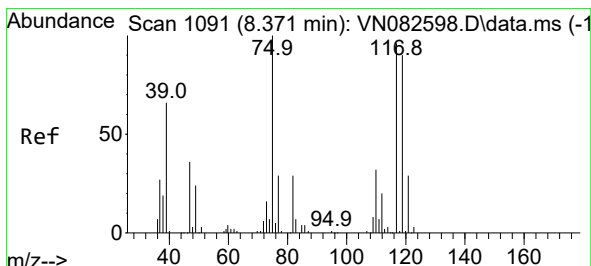
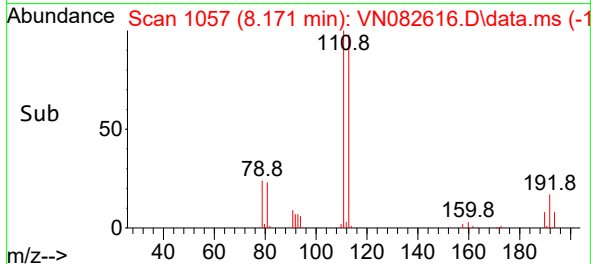
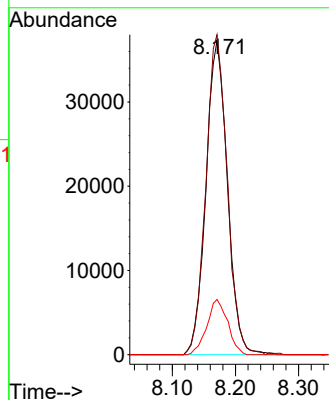
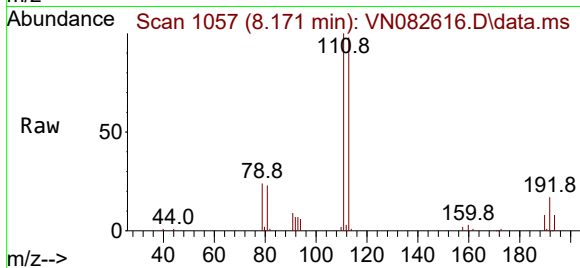
Tgt Ion:113 Resp: 87853

Ion Ratio Lower Upper

113 100

111 101.4 82.4 123.6

192 17.1 14.9 22.3



#36

1,1-Dichloropropene

Concen: 4.870 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.141 min

Lab File: VN082616.D

Acq: 17 Jun 2024 18:13

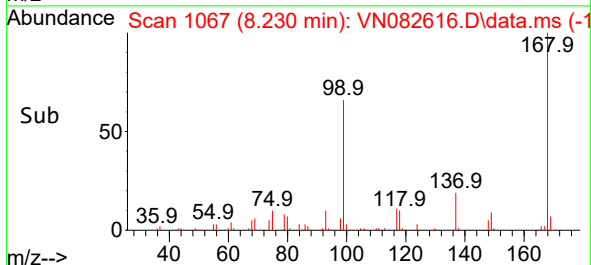
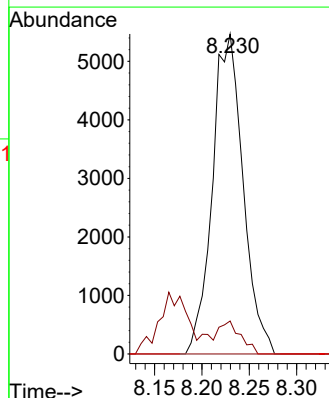
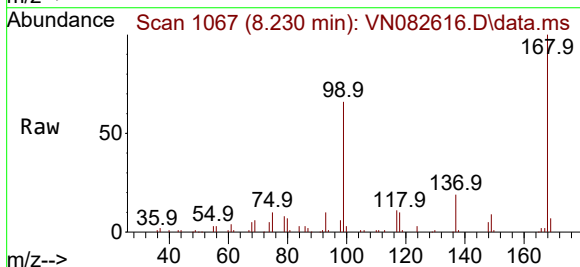
Tgt Ion: 75 Resp: 12303

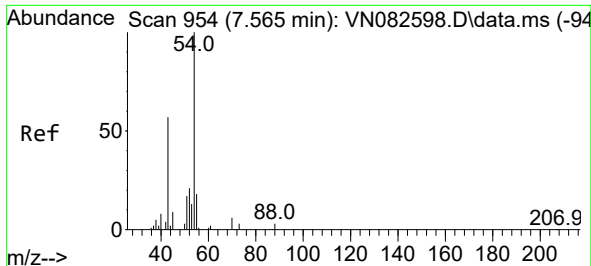
Ion Ratio Lower Upper

75 100

110 7.3 16.3 48.9#

77 0.0 24.6 37.0#





#37

Ethyl Acetate

Concen: 1.426 ug/l

RT: 7.565 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN082616.D

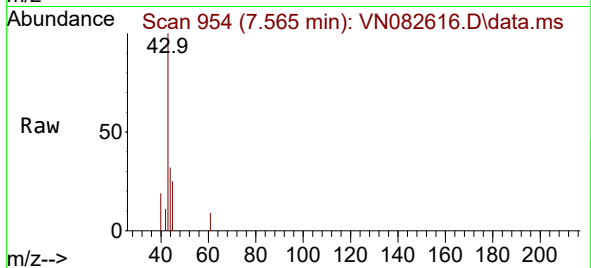
Acq: 17 Jun 2024 18:13

Instrument :

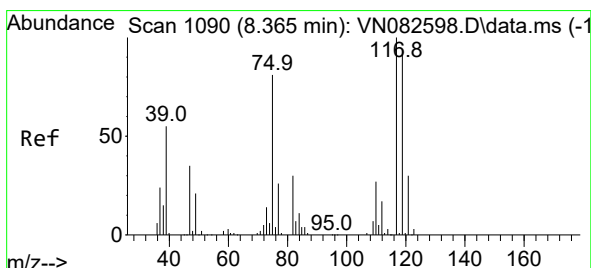
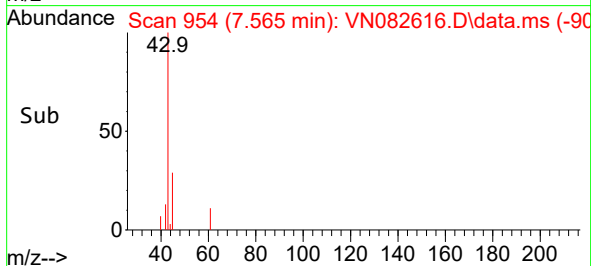
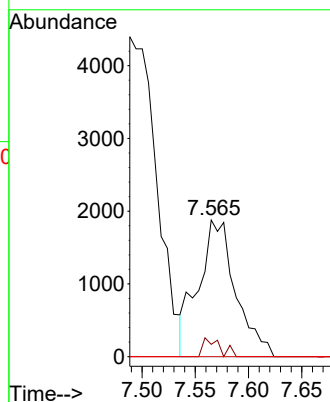
MSVOA_N

ClientSampleId :

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Tgt Ion:	43	Resp:	4589
Ion	Ratio	Lower	Upper
43	100		
61	6.3	9.3	13.9#
70	0.0	7.0	10.6#



#38

Carbon Tetrachloride

Concen: 4.868 ug/l

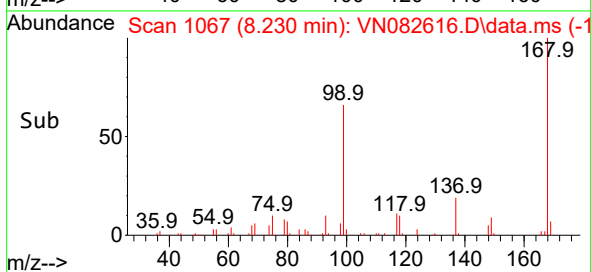
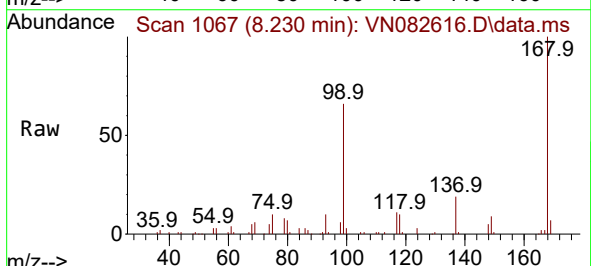
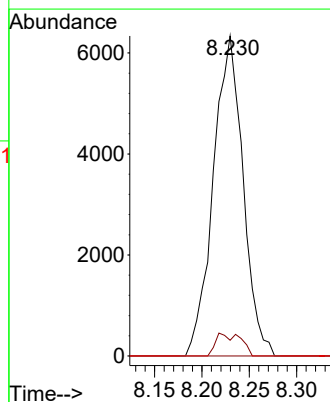
RT: 8.230 min Scan# 1067

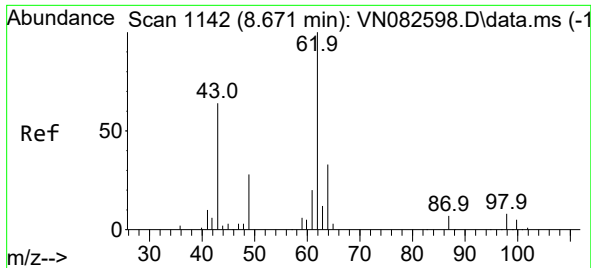
Delta R.T. -0.135 min

Lab File: VN082616.D

Acq: 17 Jun 2024 18:13

Tgt Ion:	117	Resp:	13861
Ion	Ratio	Lower	Upper
117	100		
119	4.9	74.9	112.3#
121	0.0	24.3	36.5#





#42

1,2-Dichloroethane

Concen: 0.283 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. 0.012 min

Lab File: VN082616.D

Acq: 17 Jun 2024 18:13

Instrument :

MSVOA_N

ClientSampleId :

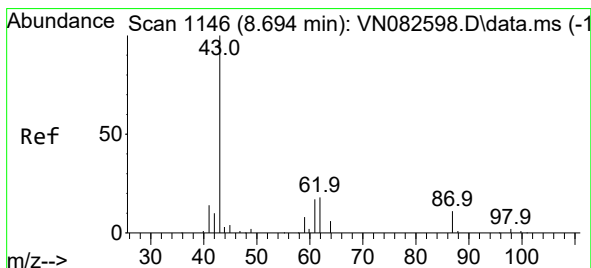
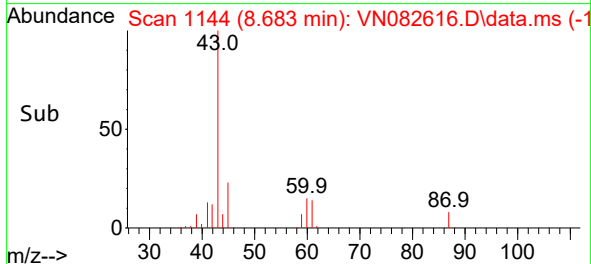
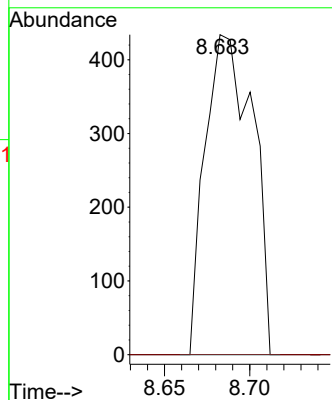
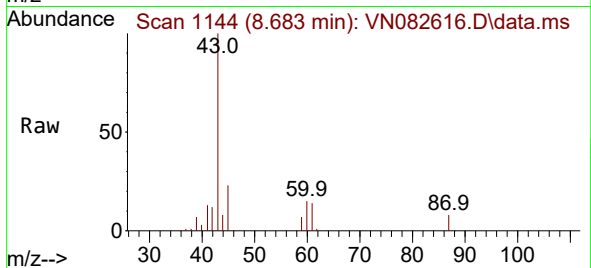
348

Tgt Ion: 62 Resp: 841

Ion Ratio Lower Upper

62 100

98 0.0 0.0 15.8



#43

Isopropyl Acetate

Concen: 49.726 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VN082616.D

Acq: 17 Jun 2024 18:13

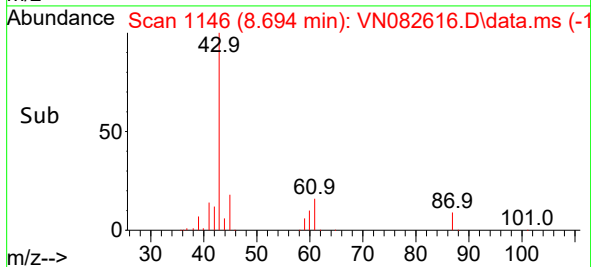
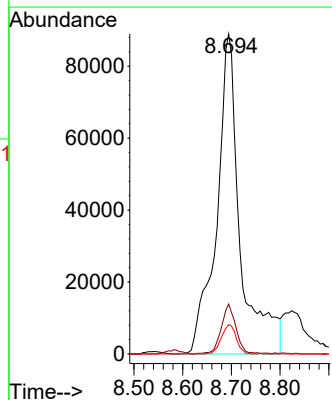
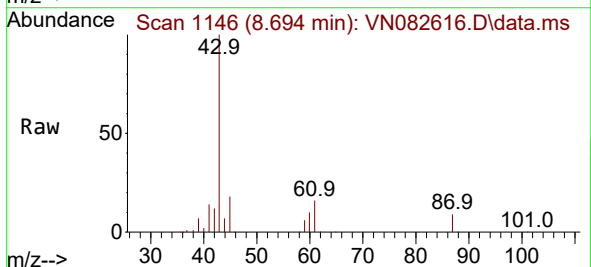
Tgt Ion: 43 Resp: 299074

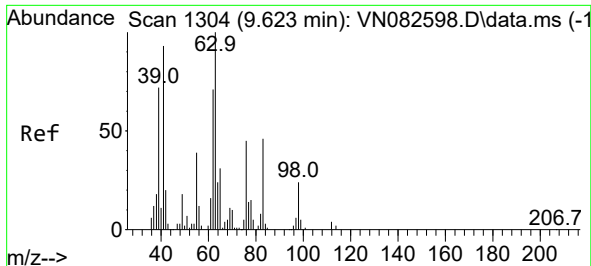
Ion Ratio Lower Upper

43 100

61 9.8 17.8 26.6#

87 5.8 8.2 12.2#

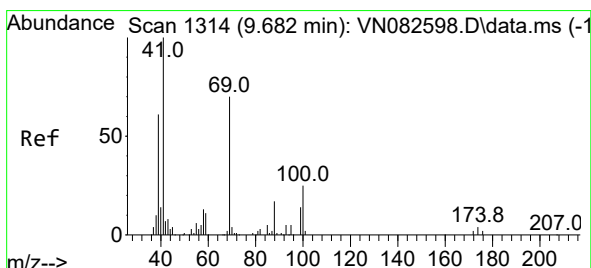
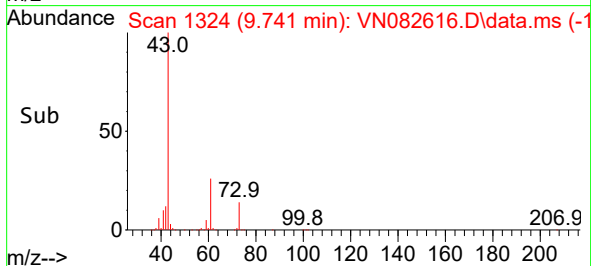
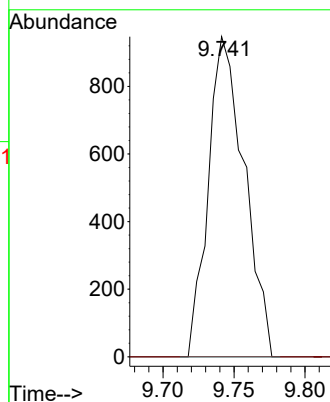
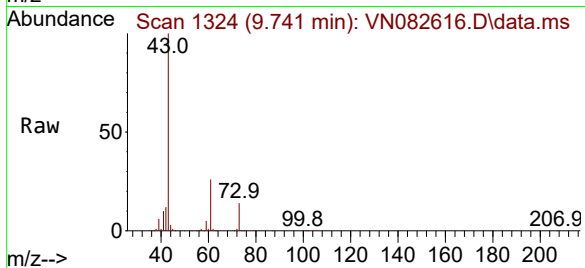




#45
1,2-Dichloropropane
Concen: 0.832 ug/l
RT: 9.741 min Scan# 11
Delta R.T. 0.118 min
Lab File: VN082616.D
Acq: 17 Jun 2024 18:13

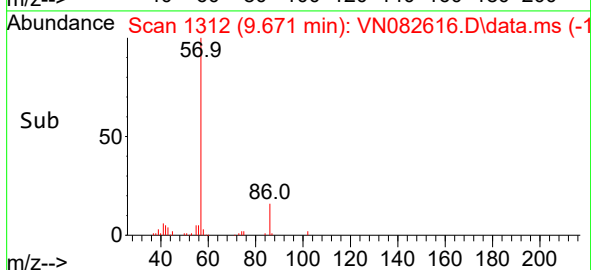
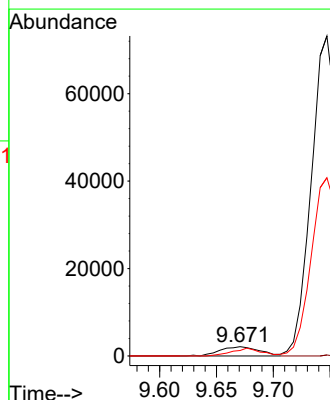
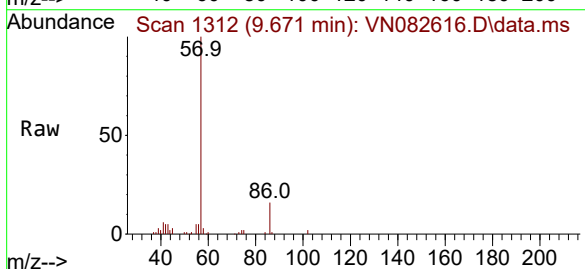
Instrument :
MSVOA_N
ClientSampleId :
348

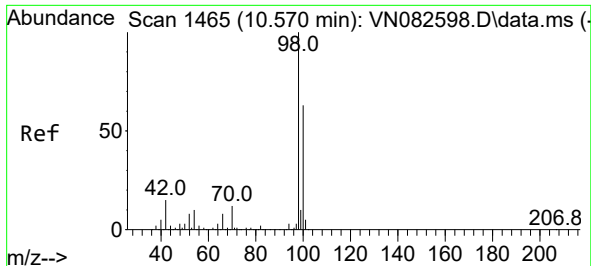
Tgt Ion: 63 Resp: 1672
Ion Ratio Lower Upper
63 100
65 0.0 24.4 36.6#



#48
Methyl methacrylate
Concen: 2.092 ug/l
RT: 9.671 min Scan# 1312
Delta R.T. -0.011 min
Lab File: VN082616.D
Acq: 17 Jun 2024 18:13

Tgt Ion: 41 Resp: 5186
Ion Ratio Lower Upper
41 100
69 0.0 56.3 84.5#
39 59.4 50.3 75.5

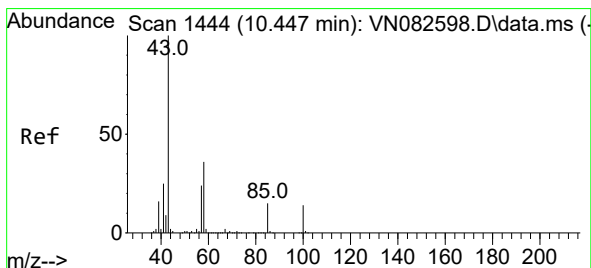
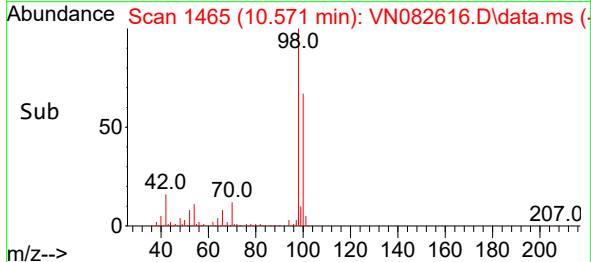
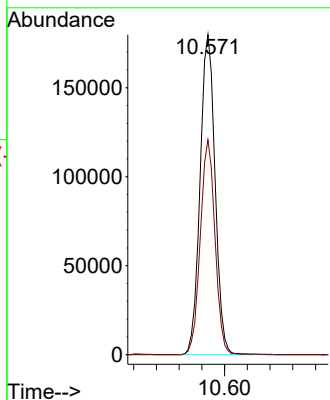
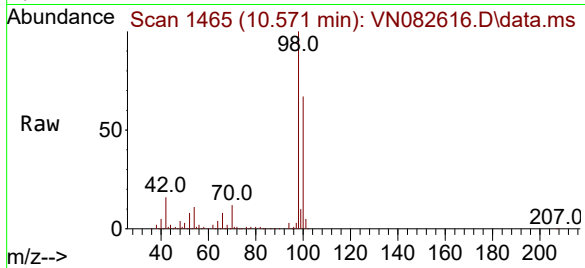




#50
Toluene-d8
Concen: 51.489 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN082616.D
Acq: 17 Jun 2024 18:13

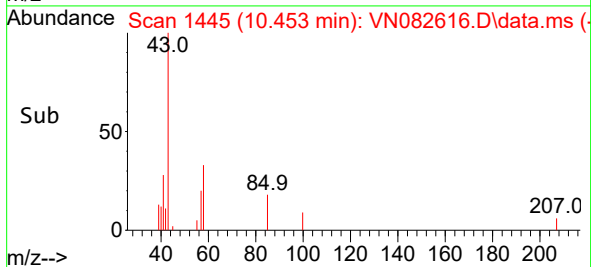
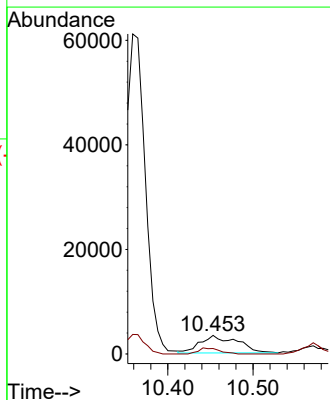
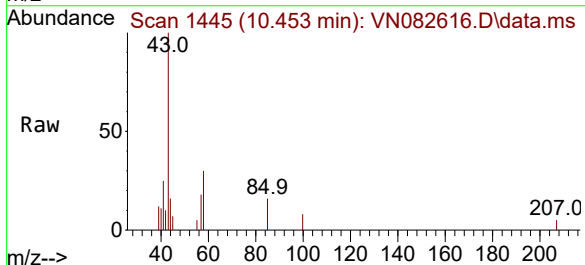
Instrument :
MSVOA_N
ClientSampleId :
348

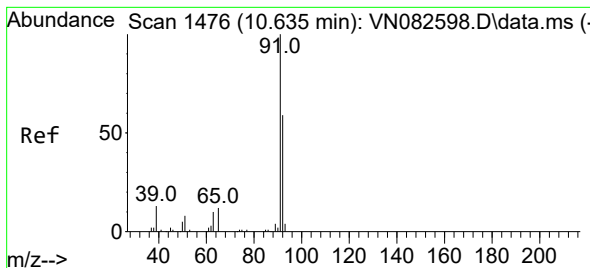
Tgt Ion: 98 Resp: 329075
Ion Ratio Lower Upper
98 100
100 65.8 51.5 77.3



#51
4-Methyl-2-Pentanone
Concen: 3.318 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN082616.D
Acq: 17 Jun 2024 18:13

Tgt Ion: 43 Resp: 10234
Ion Ratio Lower Upper
43 100
58 19.2 28.2 42.4#





#52

Toluene

Concen: 0.268 ug/l

RT: 10.629 min Scan# 1475

Delta R.T. -0.006 min

Lab File: VN082616.D

Acq: 17 Jun 2024 18:13

Instrument :

MSVOA_N

ClientSampleId :

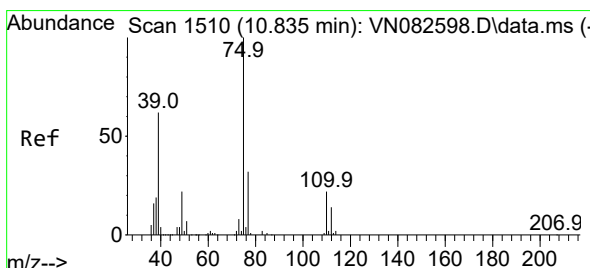
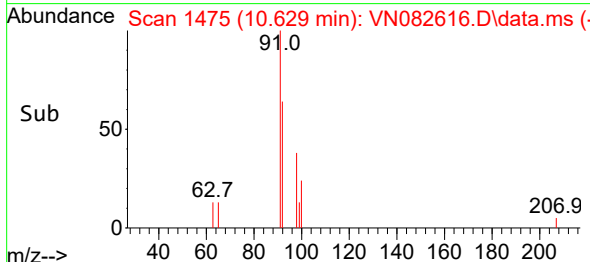
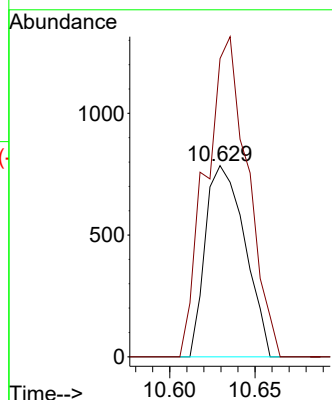
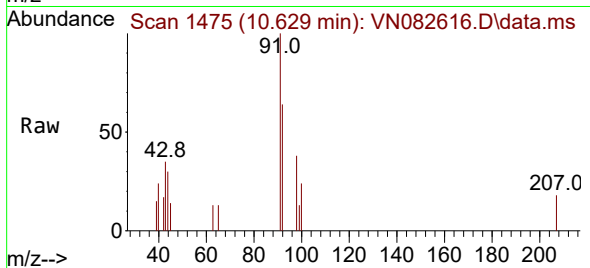
348

Tgt Ion: 92 Resp: 1267

Ion Ratio Lower Upper

92 100

91 177.9 139.4 209.0



#53

t-1,3-Dichloropropene

Concen: 0.255 ug/l

RT: 10.724 min Scan# 1491

Delta R.T. -0.112 min

Lab File: VN082616.D

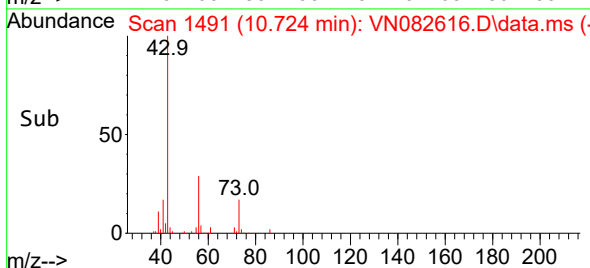
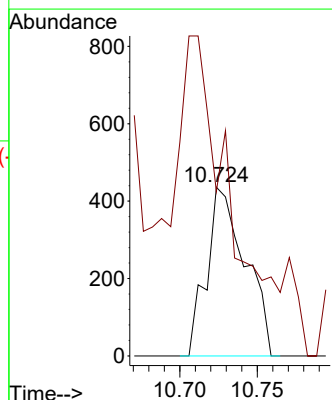
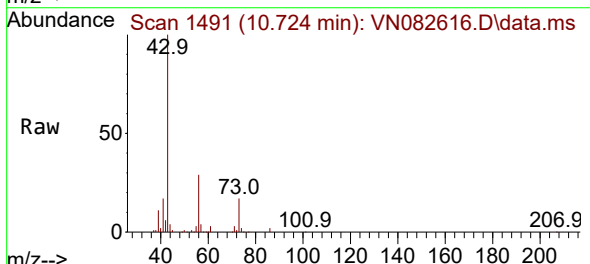
Acq: 17 Jun 2024 18:13

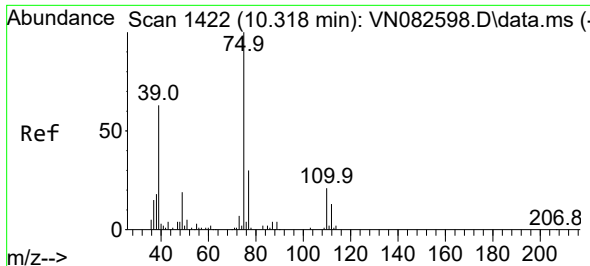
Tgt Ion: 75 Resp: 756

Ion Ratio Lower Upper

75 100

77 59.9 25.7 38.5#

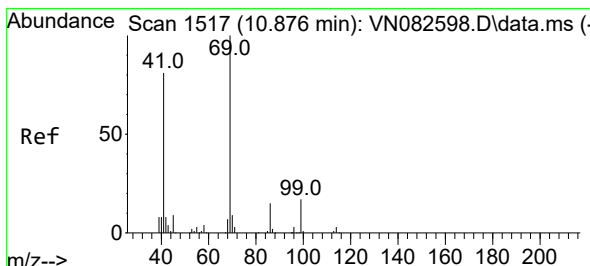
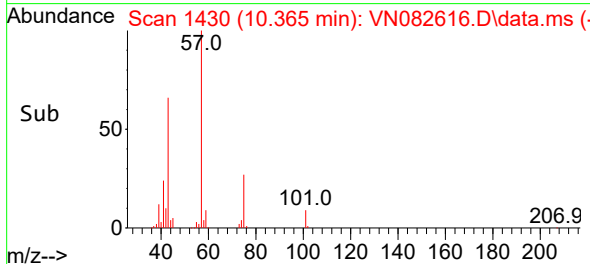
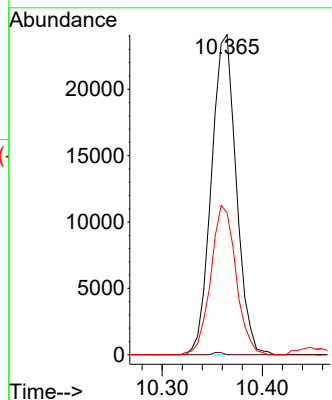
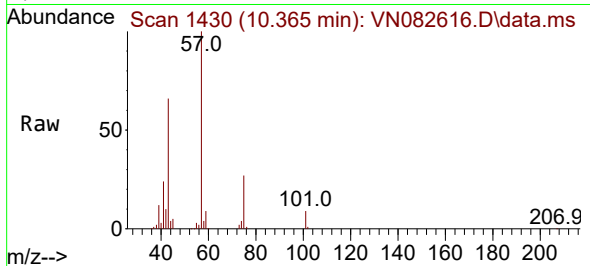




#54
cis-1,3-Dichloropropene
Concen: 13.519 ug/l
RT: 10.365 min Scan# 1422
Delta R.T. 0.047 min
Lab File: VN082616.D
Acq: 17 Jun 2024 18:13

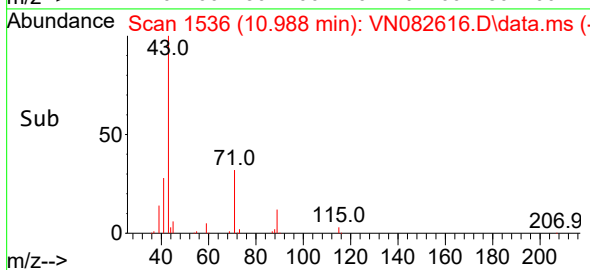
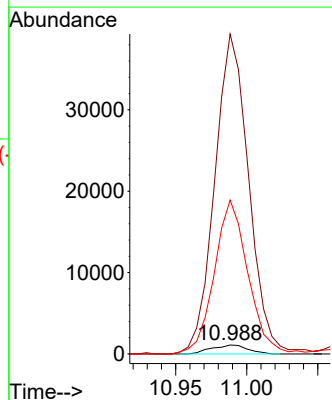
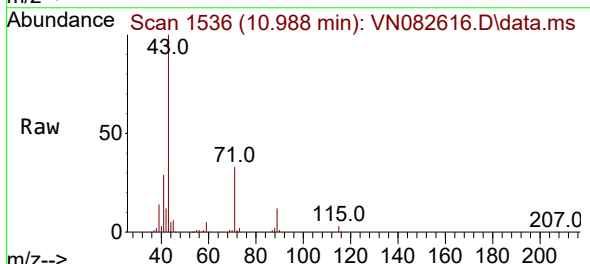
Instrument :
MSVOA_N
ClientSampleId :
348

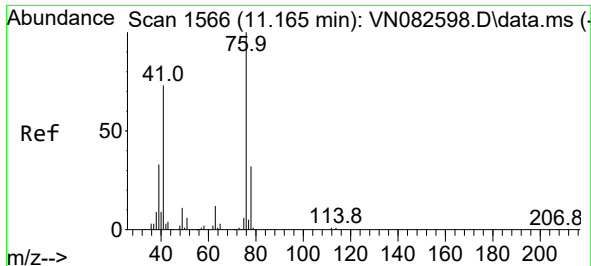
Tgt Ion: 75 Resp: 41503
Ion Ratio Lower Upper
75 100
77 0.0 24.3 36.5#
39 44.4 50.5 75.7#



#56
Ethyl methacrylate
Concen: 0.692 ug/l
RT: 10.988 min Scan# 1536
Delta R.T. 0.112 min
Lab File: VN082616.D
Acq: 17 Jun 2024 18:13

Tgt Ion: 69 Resp: 1962
Ion Ratio Lower Upper
69 100
41 3347.1 63.4 95.2#
39 1589.5 37.4 56.0#

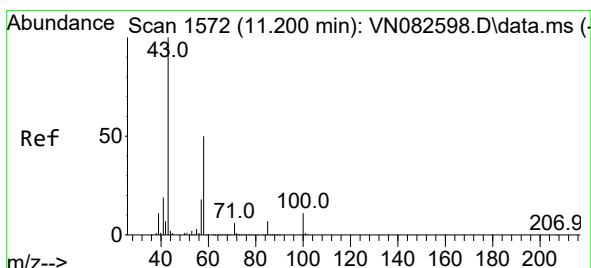
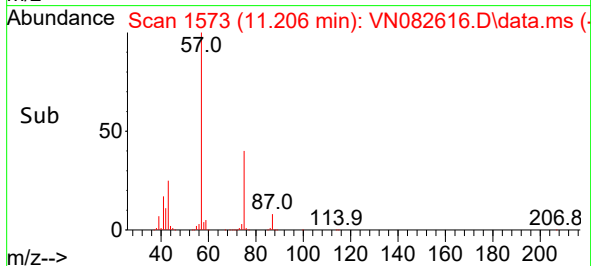
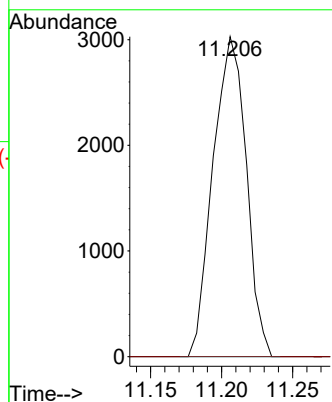
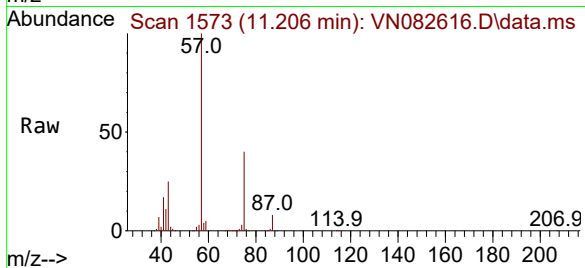




#57
1,3-Dichloropropane
Concen: 1.560 ug/l
RT: 11.206 min Scan# 11
Delta R.T. 0.041 min
Lab File: VN082616.D
Acq: 17 Jun 2024 18:13

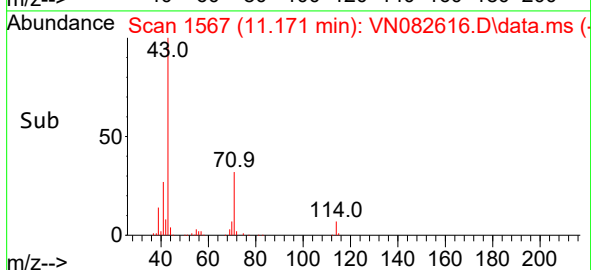
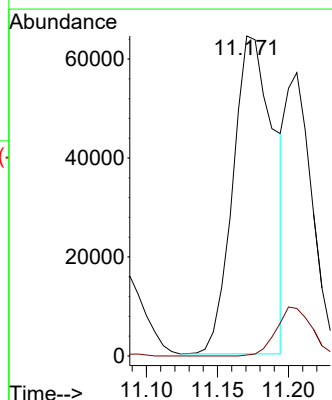
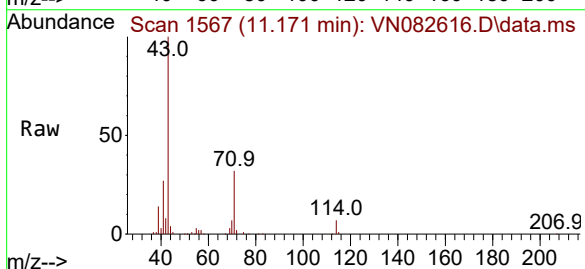
Instrument :
MSVOA_N
ClientSampleId :
348

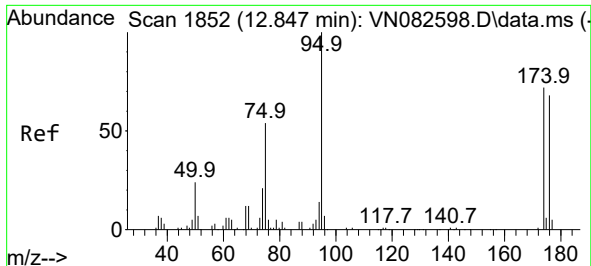
Tgt Ion: 76 Resp: 4937
Ion Ratio Lower Upper
76 100
78 0.0 25.6 38.4#



#59
2-Hexanone
Concen: 55.046 ug/l
RT: 11.171 min Scan# 1567
Delta R.T. -0.029 min
Lab File: VN082616.D
Acq: 17 Jun 2024 18:13

Tgt Ion: 43 Resp: 129062
Ion Ratio Lower Upper
43 100
58 0.0 24.6 73.8#

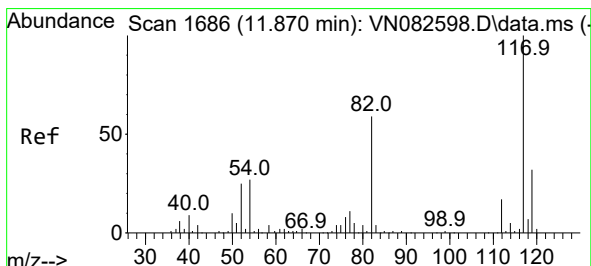
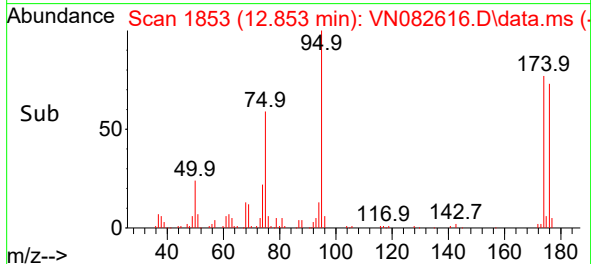
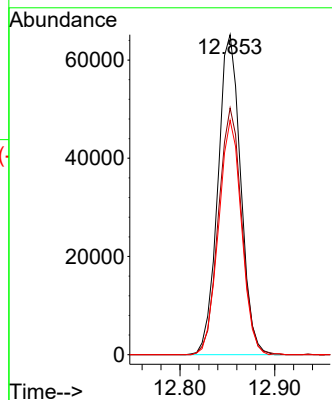
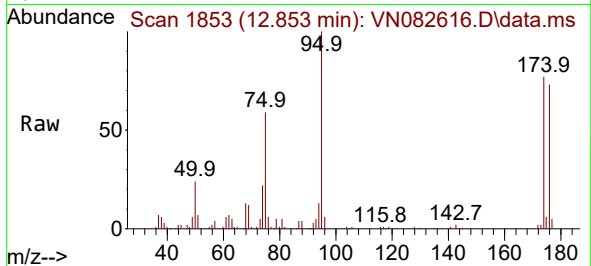




#62
4-Bromofluorobenzene
Concen: 49.345 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN082616.D
Acq: 17 Jun 2024 18:13

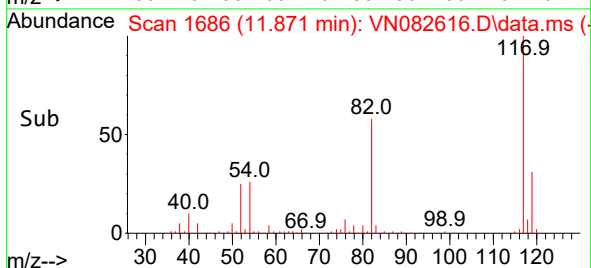
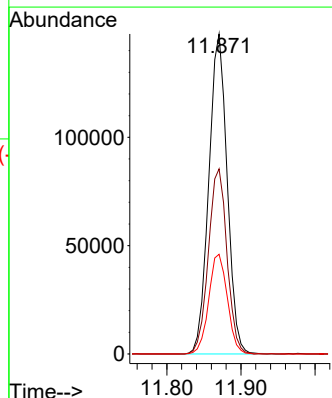
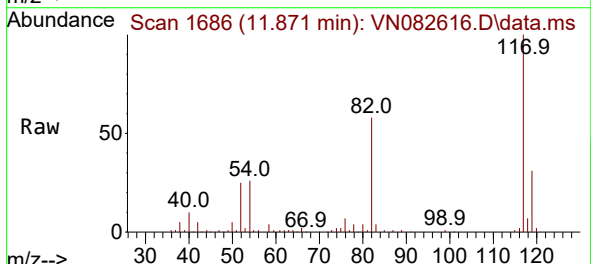
Instrument :
MSVOA_N
ClientSampleId :
348

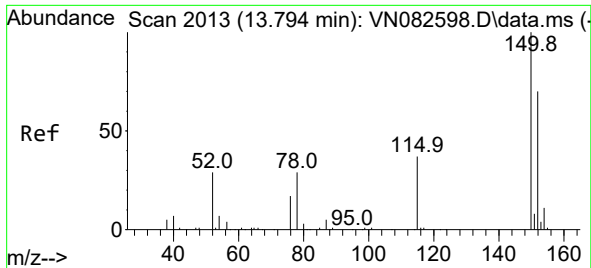
Tgt Ion: 95 Resp: 108731
Ion Ratio Lower Upper
95 100
174 78.9 0.0 159.2
176 74.0 0.0 147.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN082616.D
Acq: 17 Jun 2024 18:13

Tgt Ion: 117 Resp: 254052
Ion Ratio Lower Upper
117 100
82 57.8 47.5 71.3
119 31.2 25.6 38.4

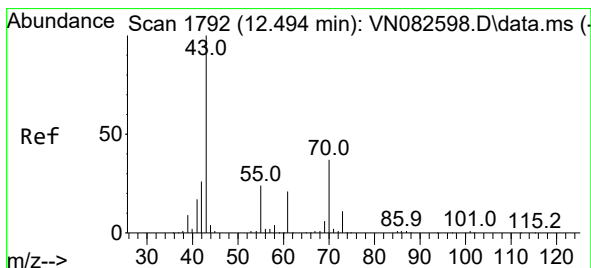
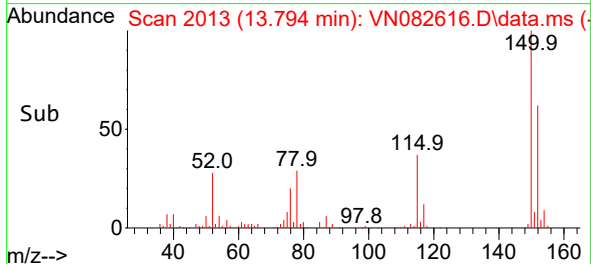
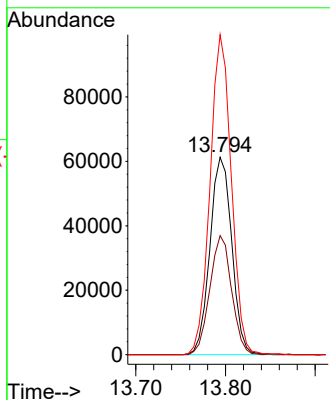
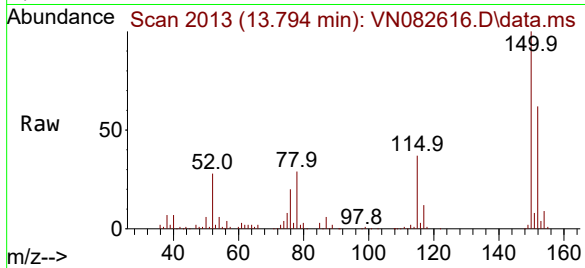




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN082616.D
Acq: 17 Jun 2024 18:13

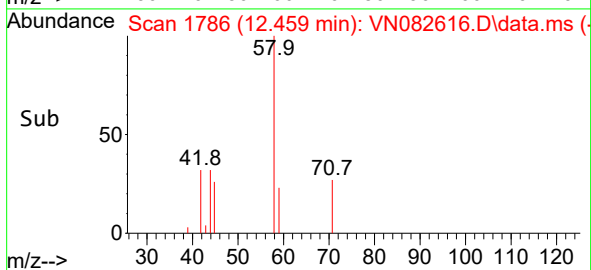
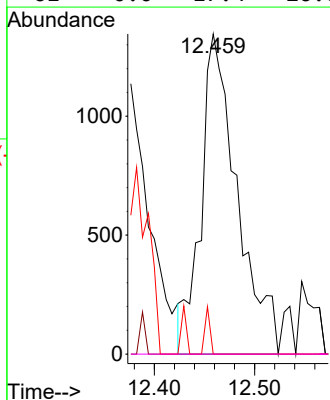
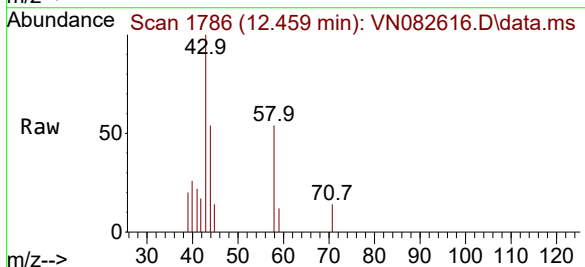
Instrument :
MSVOA_N
ClientSampleId :
348

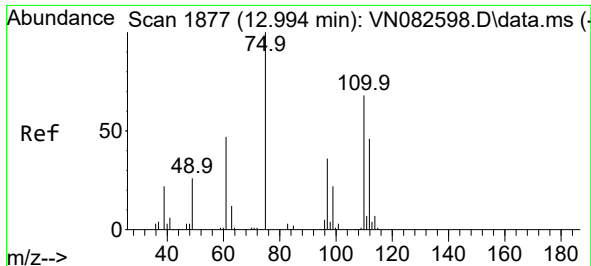
Tgt Ion:152 Resp: 103665
Ion Ratio Lower Upper
152 100
115 60.0 30.6 91.6
150 157.8 0.0 348.6



#74
N-ethyl acetate
Concen: 0.801 ug/l
RT: 12.459 min Scan# 1786
Delta R.T. -0.035 min
Lab File: VN082616.D
Acq: 17 Jun 2024 18:13

Tgt Ion: 43 Resp: 3364
Ion Ratio Lower Upper
43 100
70 0.0 29.8 44.6#
55 2.1 18.7 28.1#
61 0.0 17.4 26.0#

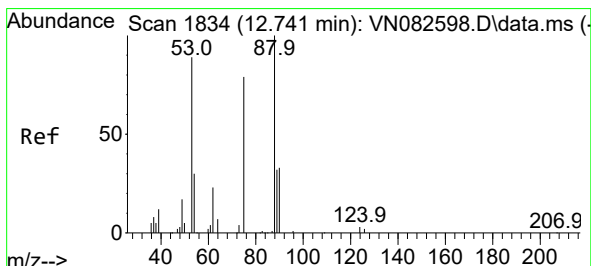
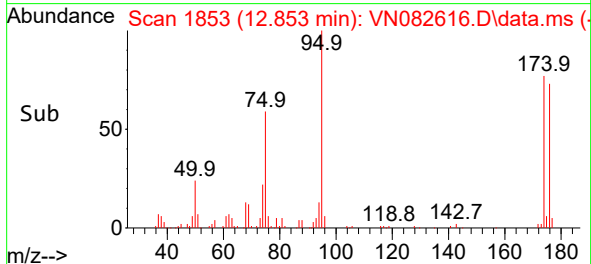
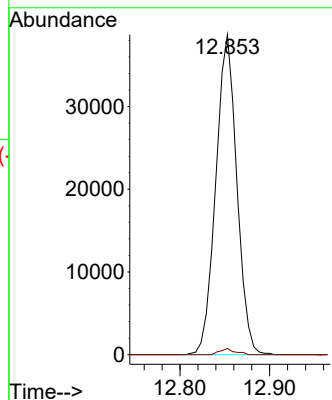
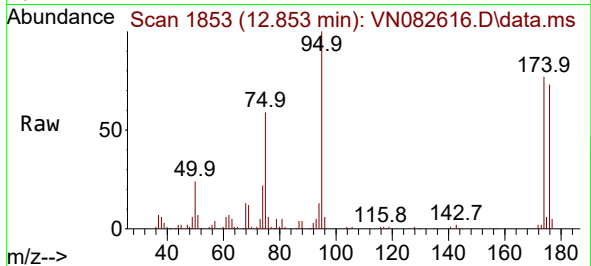




#76
1,2,3-Trichloropropane
Concen: 24.813 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN082616.D
Acq: 17 Jun 2024 18:13

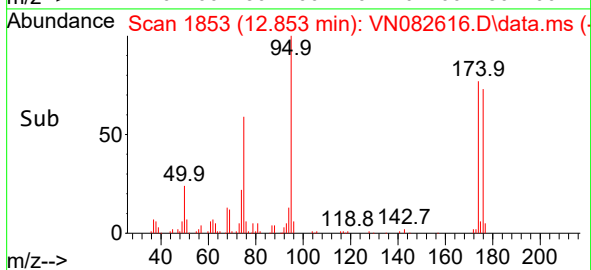
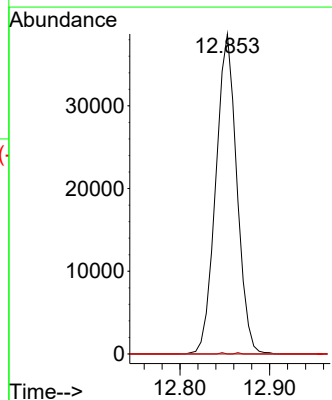
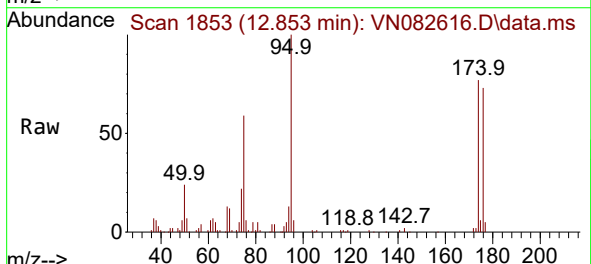
Instrument :
MSVOA_N
ClientSampleId :
348

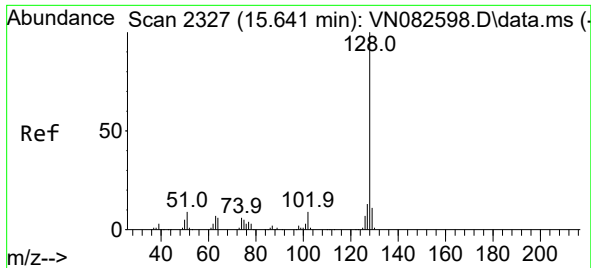
Tgt Ion: 75 Resp: 62912
Ion Ratio Lower Upper
75 100
77 1.4 110.9 332.6#



#81
trans-1,4-Dichloro-2-butene
Concen: 59.362 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN082616.D
Acq: 17 Jun 2024 18:13

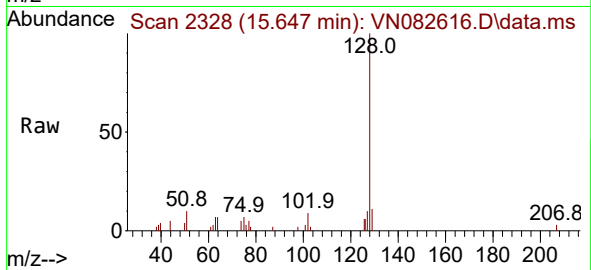
Tgt Ion: 75 Resp: 62912
Ion Ratio Lower Upper
75 100
53 0.1 88.4 132.6#
89 0.0 36.3 54.5#





#95
Naphthalene
Concen: 3.052 ug/l
RT: 15.647 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN082616.D
Acq: 17 Jun 2024 18:13

Instrument :
MSVOA_N
ClientSampleId :
348



Tgt Ion:	128	Resp:	17759
Ion	Ratio	Lower	Upper
128	100		
127	14.8	10.6	16.0
129	9.8	8.6	12.8

