

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051624\
 Data File : VN082166.D
 Acq On : 16 May 2024 16:54
 Operator : JC\MD
 Sample : PB160937ZHE#01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB160937ZHE#01

Quant Time: May 17 05:04:41 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051524W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 04:08:43 2024
 Response via : Initial Calibration

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

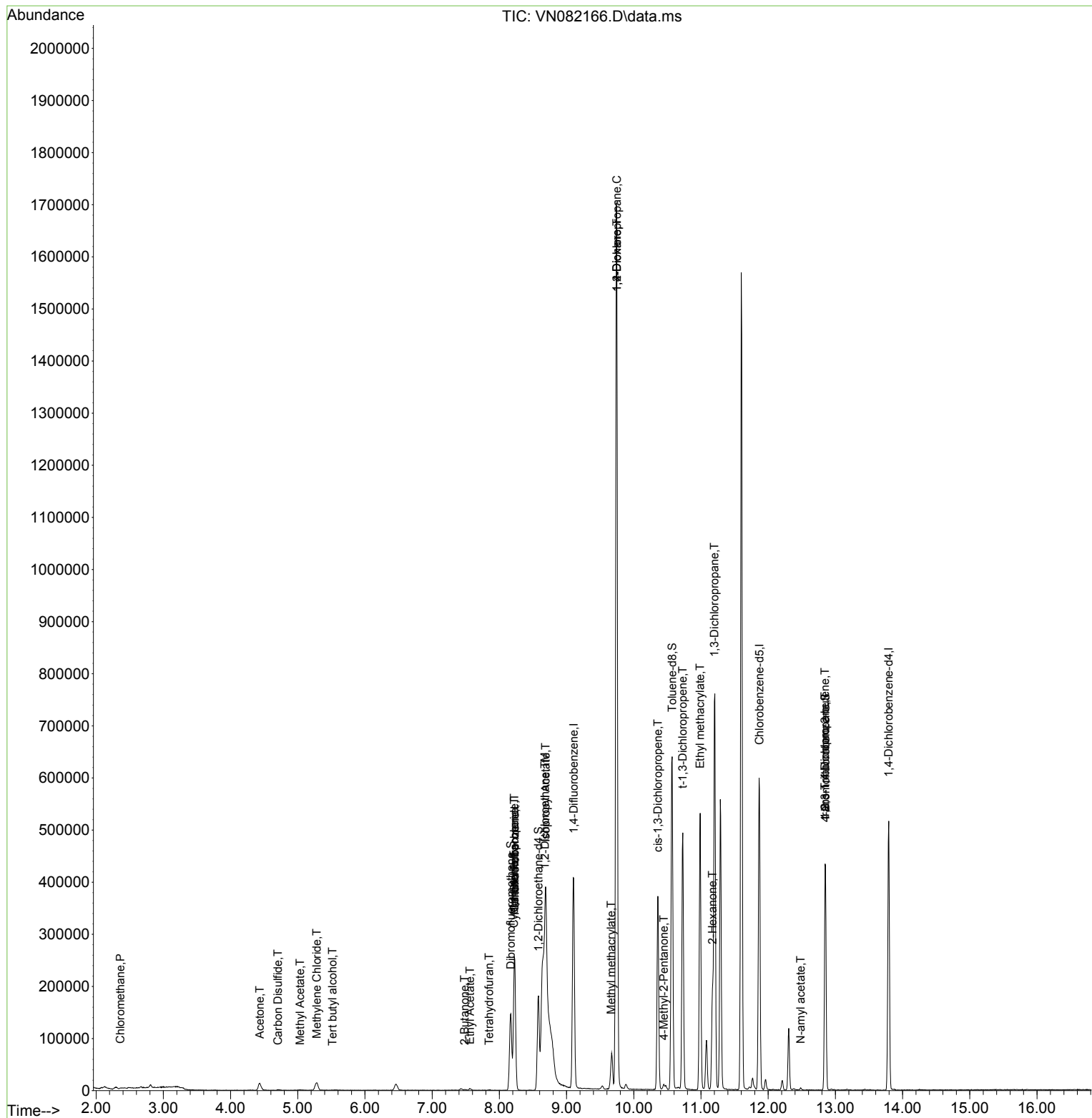
Internal Standards						
1) Pentafluorobenzene	8.229	168	177768	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	325053	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	309256	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	126830	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	149202	53.153	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.300%			
35) Dibromofluoromethane	8.171	113	103175	51.598	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.200%			
50) Toluene-d8	10.571	98	417652	54.480	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 108.960%			
62) 4-Bromofluorobenzene	12.853	95	139852	51.111	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 102.220%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	601	0.207	ug/l #	43
11) Tert butyl alcohol	5.518	59	197	0.437	ug/l #	71
16) Acetone	4.436	43	26555	23.062	ug/l	91
17) Carbon Disulfide	4.706	76	2034	0.324	ug/l #	74
18) Methyl Acetate	5.036	43	1883	0.657	ug/l #	64
20) Methylene Chloride	5.283	84	10458	4.501	ug/l #	81
25) 2-Butanone	7.482	43	2878	1.649	ug/l #	43
29) Tetrahydrofuran	7.847	42	606	0.541	ug/l #	29
31) Cyclohexane	8.218	56	5735	1.279	ug/l #	44
36) 1,1-Dichloropropene	8.224	75	16946	5.053	ug/l #	49
37) Ethyl Acetate	7.565	43	4785	1.275	ug/l #	82
38) Carbon Tetrachloride	8.224	117	18741	5.513	ug/l #	16
42) 1,2-Dichloroethane	8.677	62	1847	0.480	ug/l #	73
43) Isopropyl Acetate	8.688	43	952908	143.290	ug/l #	59
45) 1,2-Dichloropropane	9.747	63	1964	0.761	ug/l #	45
48) Methyl methacrylate	9.665	41	5242	1.654	ug/l #	39
49) 1,4-Dioxane	9.747	88	134	3.018	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	7229	1.913	ug/l #	77
53) t-1,3-Dichloropropene	10.729	75	1096	0.296	ug/l	95
54) cis-1,3-Dichloropropene	10.359	75	57828	14.771	ug/l #	75
56) Ethyl methacrylate	10.988	69	1553	0.419	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	7330	1.798	ug/l #	42
59) 2-Hexanone	11.170	43	165155	59.696	ug/l #	23
74) N-amyl acetate	12.482	43	3166	0.571	ug/l #	41
76) 1,2,3-Trichloropropane	12.847	75	83174	31.157	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	83174	72.876	ug/l #	12

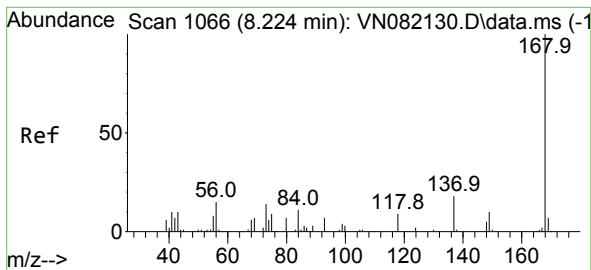
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051624\
Data File : VN082166.D
Acq On : 16 May 2024 16:54
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Sample : PB160937ZHE#01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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Quant Time: May 17 05:04:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051524W.M
Quant Title : SW846 8260
QLast Update : Fri May 17 04:08:43 2024
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.229 min Scan# 1066

Delta R.T. 0.005 min

Lab File: VN082166.D

Acq: 16 May 2024 16:54

Instrument :

MSVOA_N

ClientSampleId :

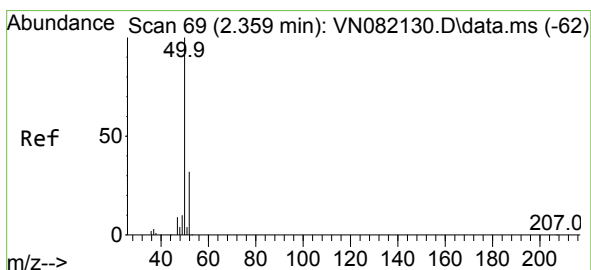
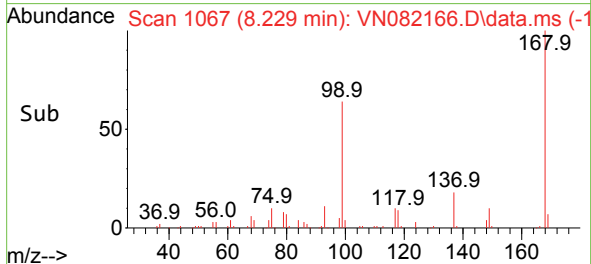
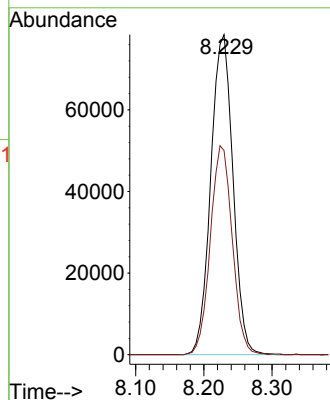
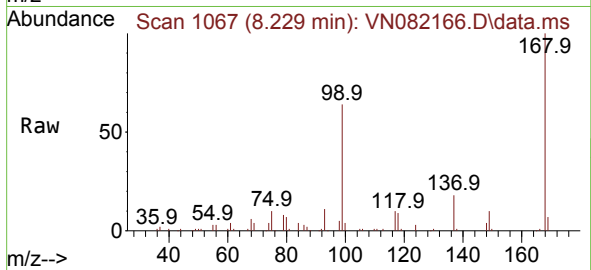
PB160937ZHE#01

Tgt Ion:168 Resp: 177768

Ion Ratio Lower Upper

168 100

99 63.8 48.2 72.4



#3

Chloromethane

Concen: 0.207 ug/l

RT: 2.359 min Scan# 69

Delta R.T. -0.000 min

Lab File: VN082166.D

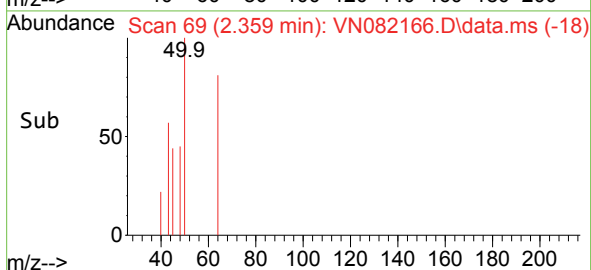
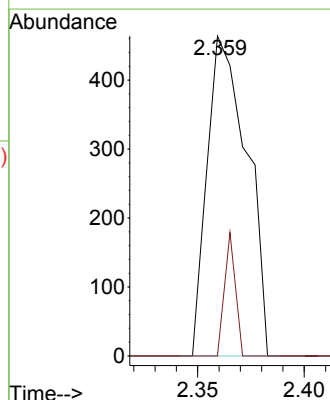
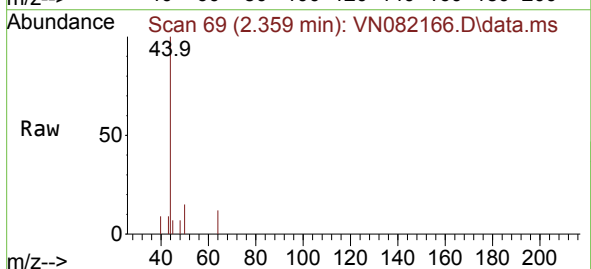
Acq: 16 May 2024 16:54

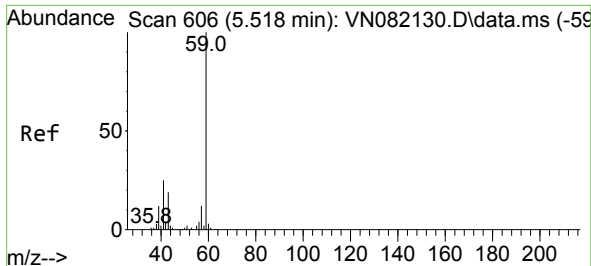
Tgt Ion: 50 Resp: 601

Ion Ratio Lower Upper

50 100

52 0.0 25.5 38.3#

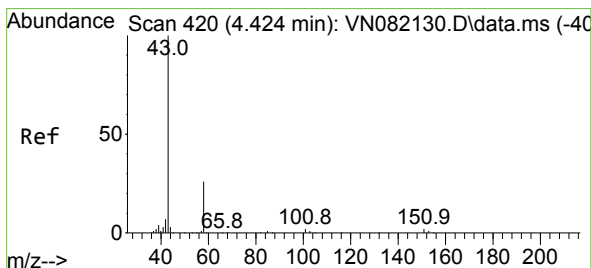
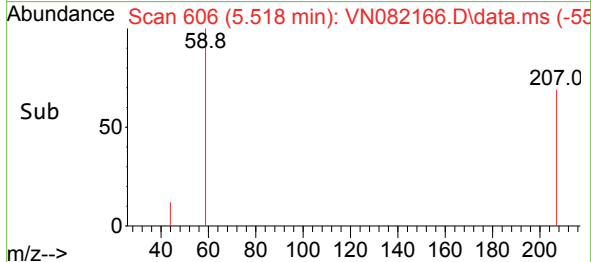
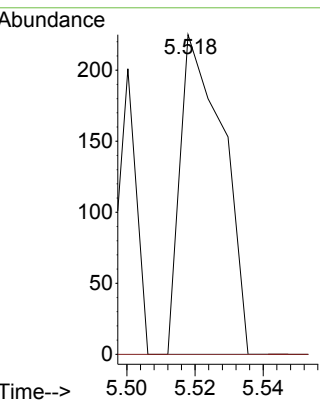
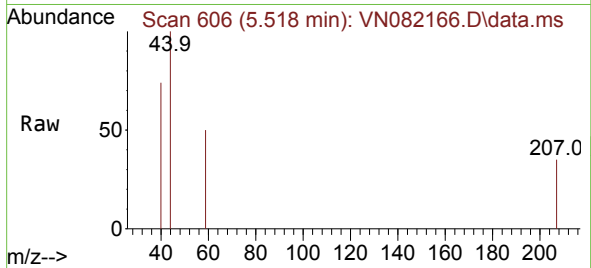




#11
Tert butyl alcohol
Concen: 0.437 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.000 min
Lab File: VN082166.D
Acq: 16 May 2024 16:54

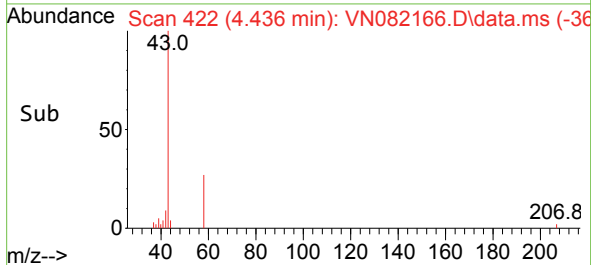
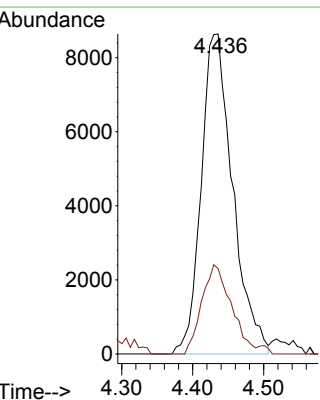
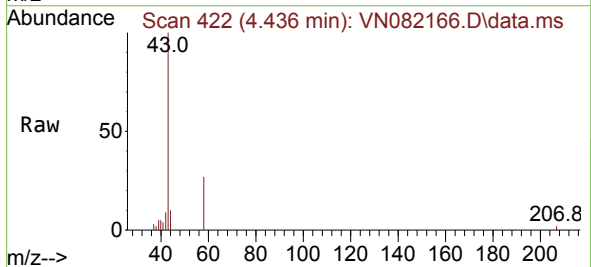
Instrument :
MSVOA_N
ClientSampleId :
PB160937ZHE#01

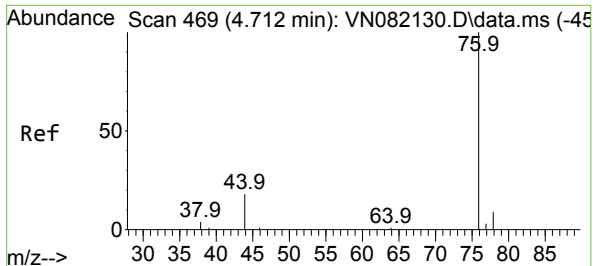
Tgt Ion: 59 Resp: 197
Ion Ratio Lower Upper
59 100
57 0.0 8.9 13.3#



#16
Acetone
Concen: 23.062 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN082166.D
Acq: 16 May 2024 16:54

Tgt Ion: 43 Resp: 26555
Ion Ratio Lower Upper
43 100
58 26.7 25.2 37.8

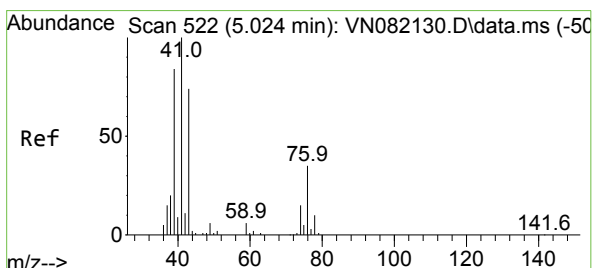
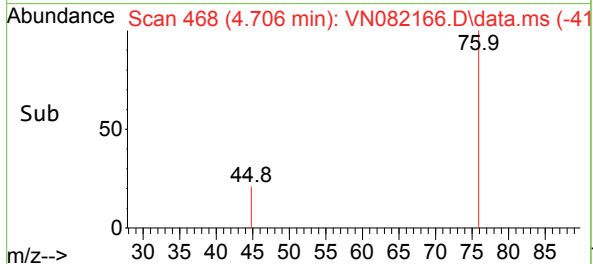
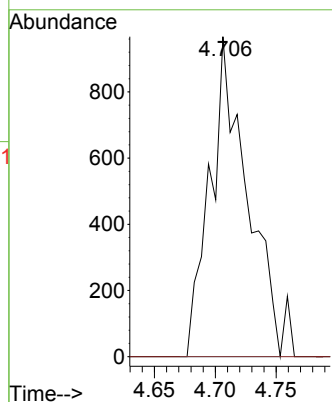
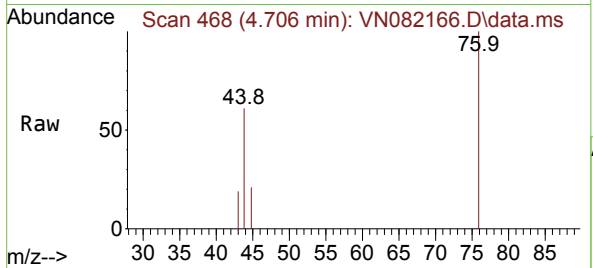




#17
Carbon Disulfide
Concen: 0.324 ug/l
RT: 4.706 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN082166.D
Acq: 16 May 2024 16:54

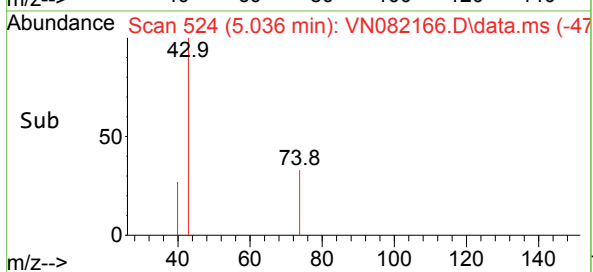
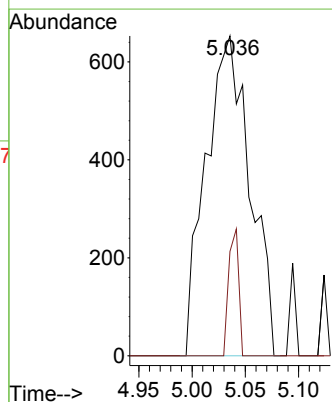
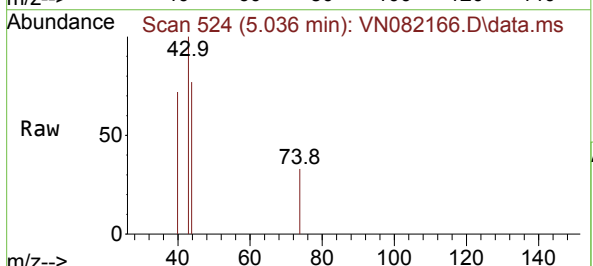
Instrument :
MSVOA_N
ClientSampleId :
PB160937ZHE#01

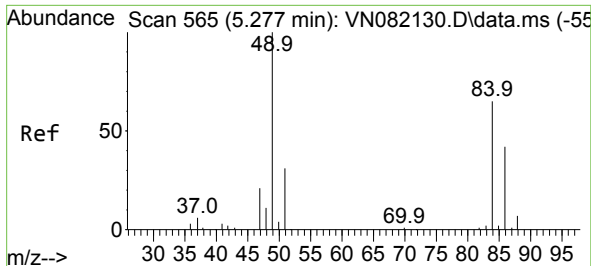
Tgt Ion: 76 Resp: 2034
Ion Ratio Lower Upper
76 100
78 0.0 7.5 11.3#



#18
Methyl Acetate
Concen: 0.657 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.012 min
Lab File: VN082166.D
Acq: 16 May 2024 16:54

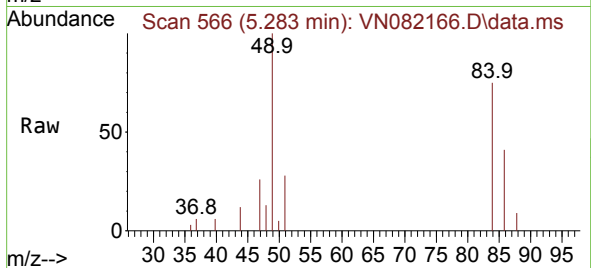
Tgt Ion: 43 Resp: 1883
Ion Ratio Lower Upper
43 100
74 8.9 22.2 33.2#



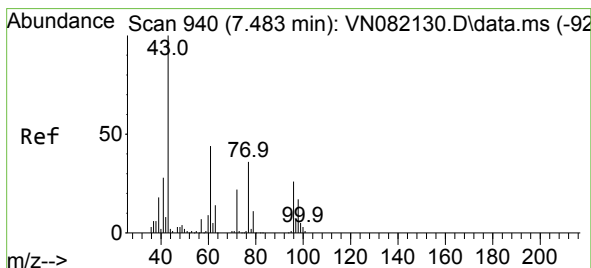
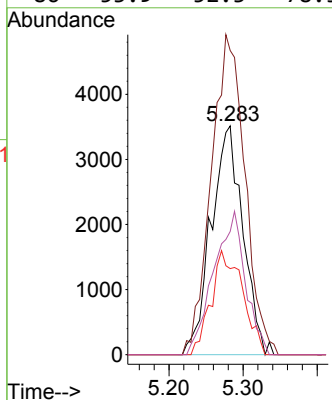


#20
Methylene Chloride
Concen: 4.501 ug/l
RT: 5.283 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN082166.D
Acq: 16 May 2024 16:54

Instrument :
MSVOA_N
ClientSampleId :
PB160937ZHE#01

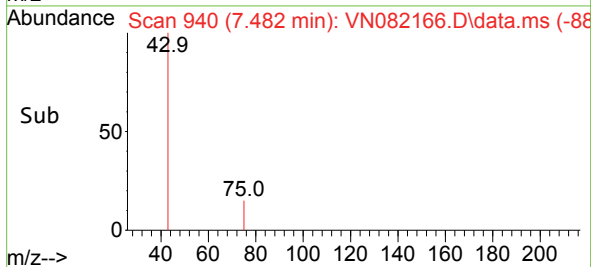
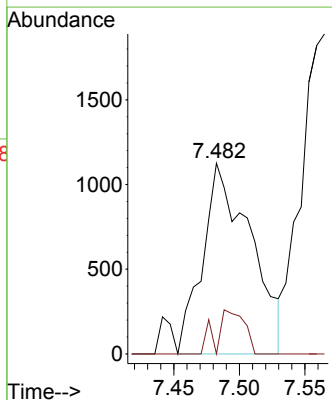
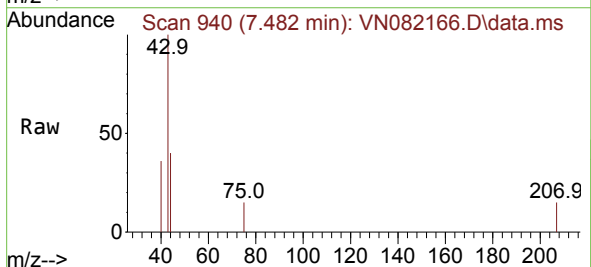


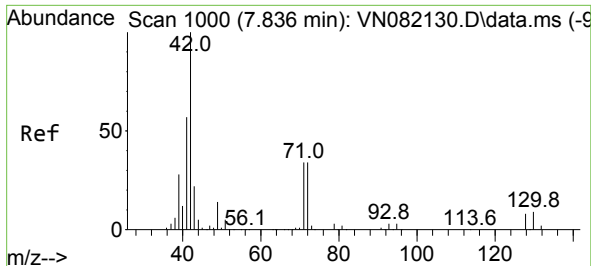
Tgt Ion:	84	Resp:	10458
Ion	Ratio	Lower	Upper
84	100		
49	133.0	84.9	127.3#
51	37.6	27.0	40.6
86	53.9	52.3	78.5



#25
2-Butanone
Concen: 1.649 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN082166.D
Acq: 16 May 2024 16:54

Tgt Ion:	43	Resp:	2878
Ion	Ratio	Lower	Upper
43	100		
72	0.0	25.3	37.9#





#29

Tetrahydrofuran

Concen: 0.541 ug/l

RT: 7.847 min Scan# 1065

Delta R.T. 0.011 min

Lab File: VN082166.D

Acq: 16 May 2024 16:54

Instrument :

MSVOA_N

ClientSampleId :

PB160937ZHE#01

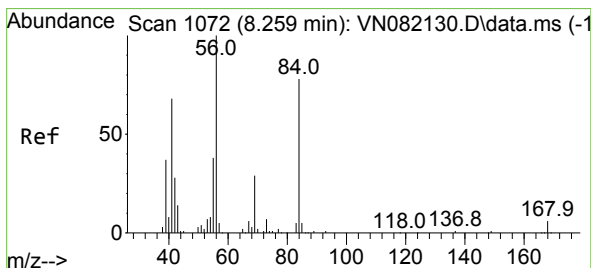
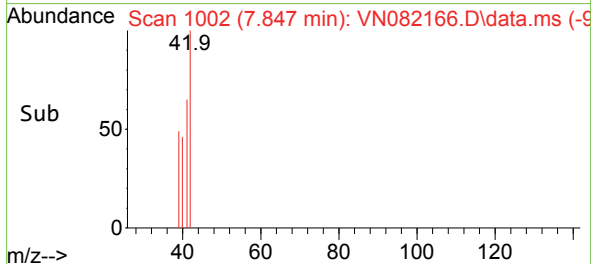
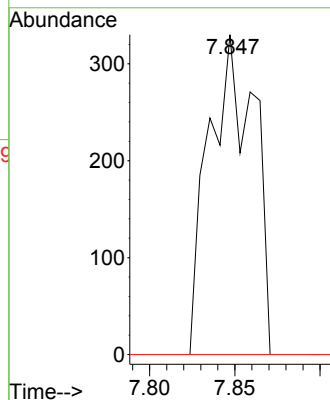
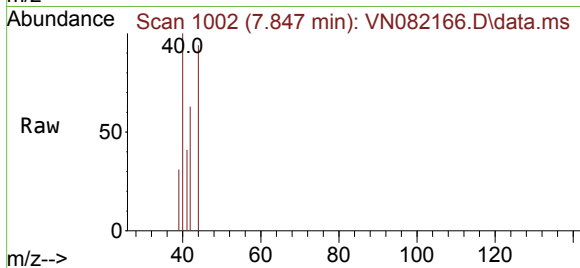
Tgt Ion: 42 Resp: 606

Ion Ratio Lower Upper

42 100

72 0.0 39.3 58.9#

71 0.0 37.4 56.0#



#31

Cyclohexane

Concen: 1.279 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.041 min

Lab File: VN082166.D

Acq: 16 May 2024 16:54

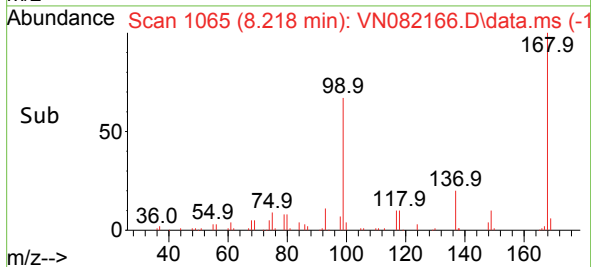
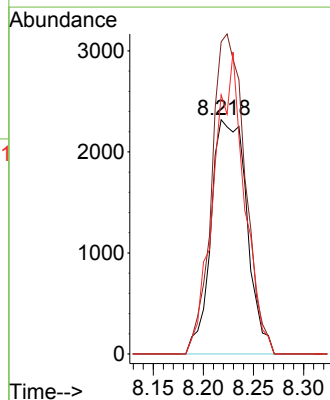
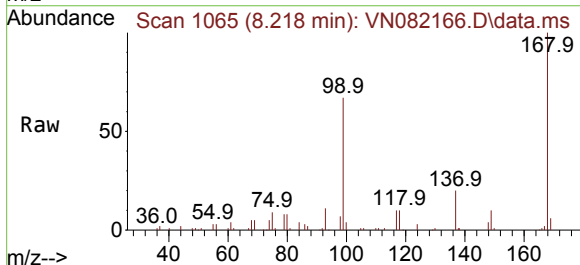
Tgt Ion: 56 Resp: 5735

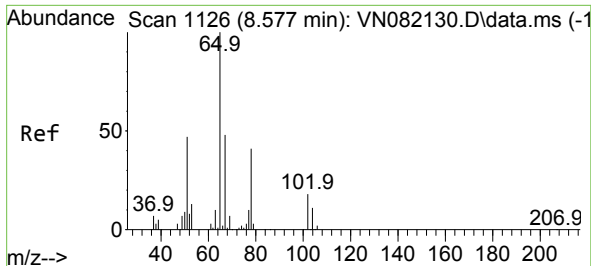
Ion Ratio Lower Upper

56 100

69 133.3 24.4 36.6#

84 110.6 77.0 115.4





#33

1,2-Dichloroethane-d4

Concen: 53.153 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN082166.D

Acq: 16 May 2024 16:54

Instrument :

MSVOA_N

ClientSampleId :

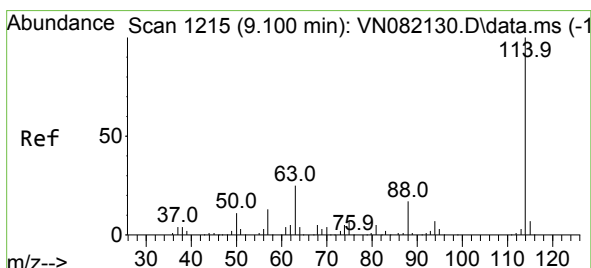
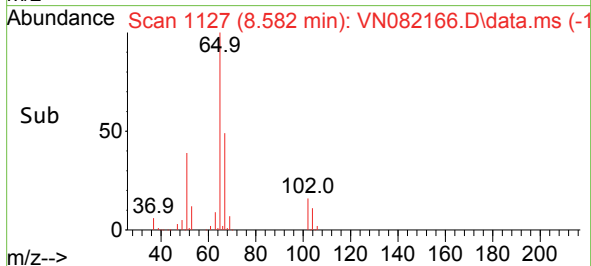
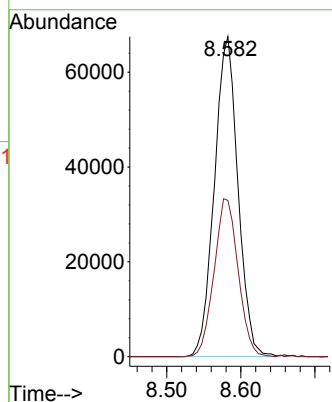
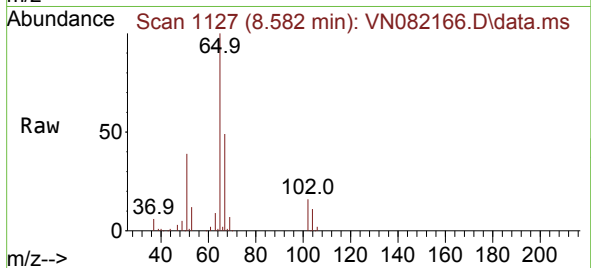
PB160937ZHE#01

Tgt Ion: 65 Resp: 149202

Ion Ratio Lower Upper

65 100

67 50.3 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.006 min

Lab File: VN082166.D

Acq: 16 May 2024 16:54

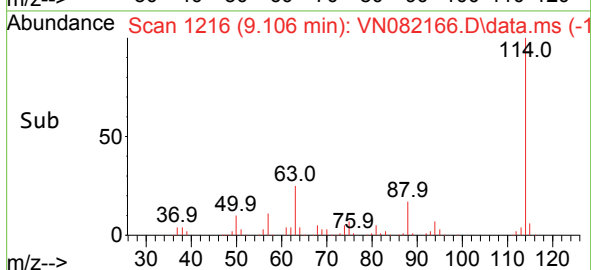
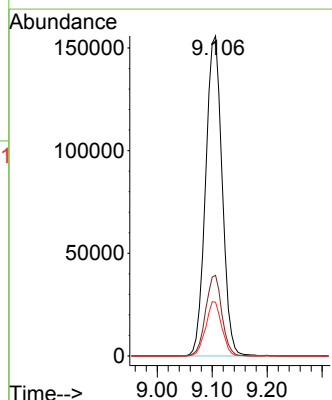
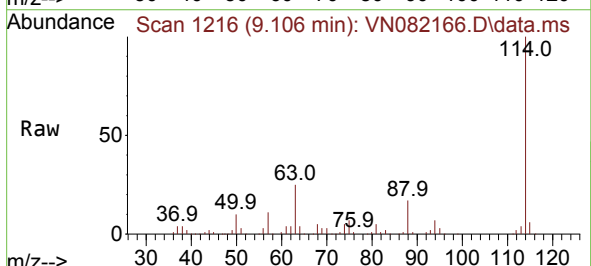
Tgt Ion: 114 Resp: 325053

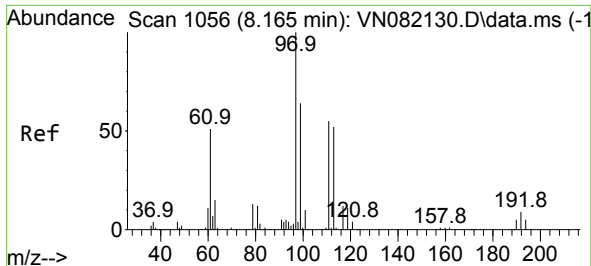
Ion Ratio Lower Upper

114 100

63 25.2 0.0 41.0

88 16.8 0.0 31.4

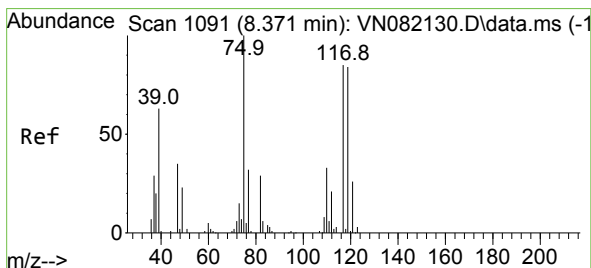
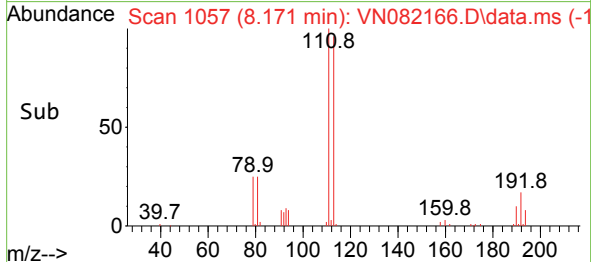
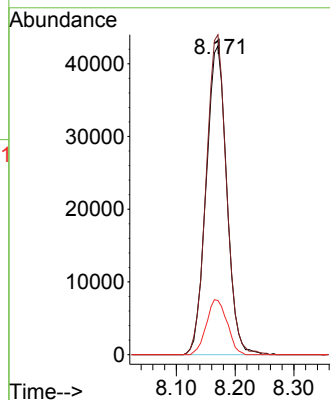
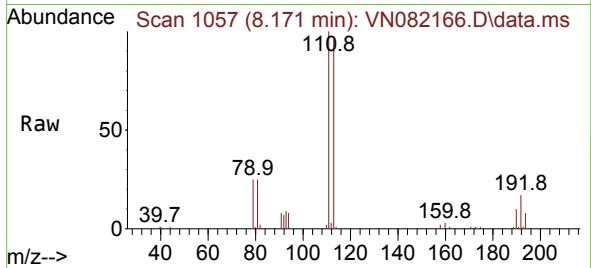




#35
Dibromofluoromethane
Concen: 51.598 ug/l
RT: 8.171 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN082166.D
Acq: 16 May 2024 16:54

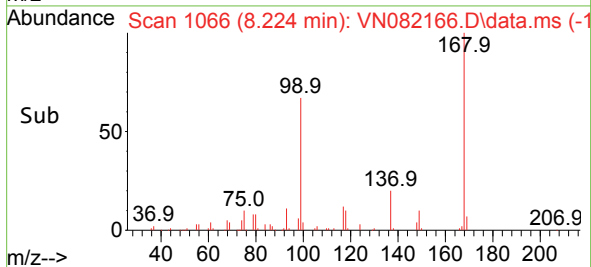
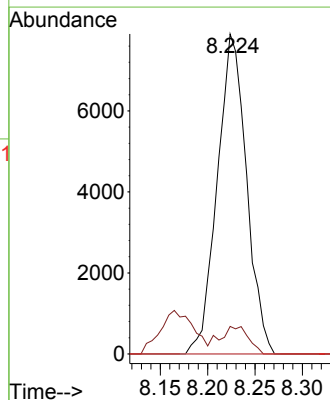
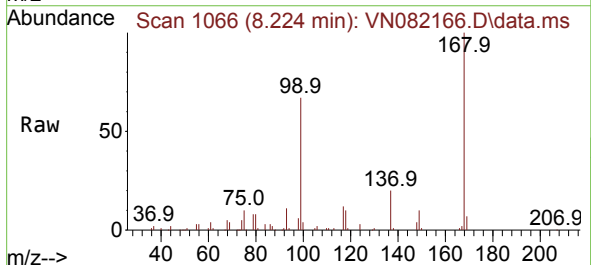
Instrument :
MSVOA_N
ClientSampleId :
PB160937ZHE#01

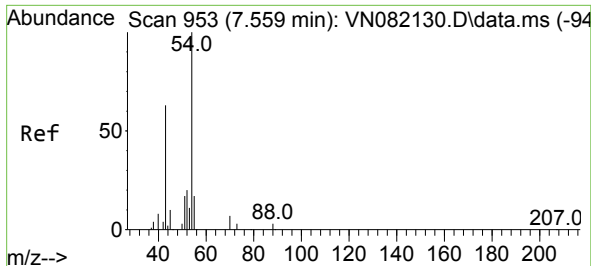
Tgt Ion:113 Resp: 103175
Ion Ratio Lower Upper
113 100
111 102.3 83.4 125.2
192 17.9 14.0 21.0



#36
1,1-Dichloropropene
Concen: 5.053 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.147 min
Lab File: VN082166.D
Acq: 16 May 2024 16:54

Tgt Ion: 75 Resp: 16946
Ion Ratio Lower Upper
75 100
110 8.5 17.8 53.5#
77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 1.275 ug/l

RT: 7.565 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN082166.D

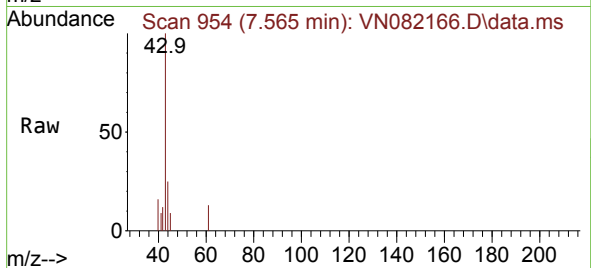
Acq: 16 May 2024 16:54

Instrument :

MSVOA_N

ClientSampleId :

PB160937ZHE#01



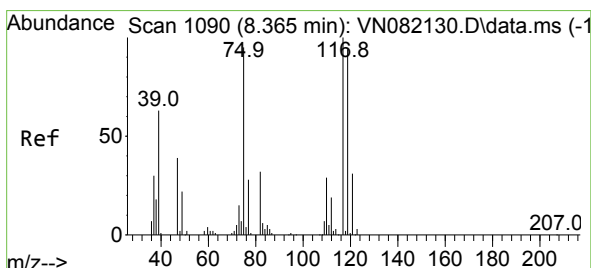
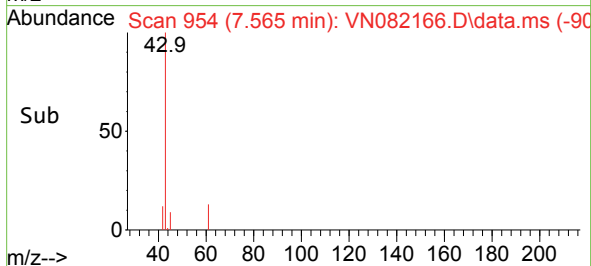
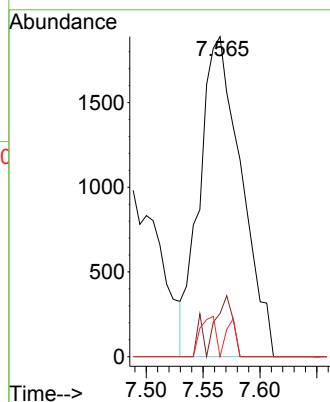
Tgt Ion: 43 Resp: 4785

Ion Ratio Lower Upper

43 100

61 7.6 11.3 16.9#

70 2.8 8.7 13.1#



#38

Carbon Tetrachloride

Concen: 5.513 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN082166.D

Acq: 16 May 2024 16:54

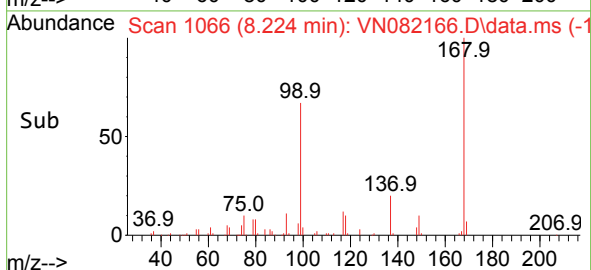
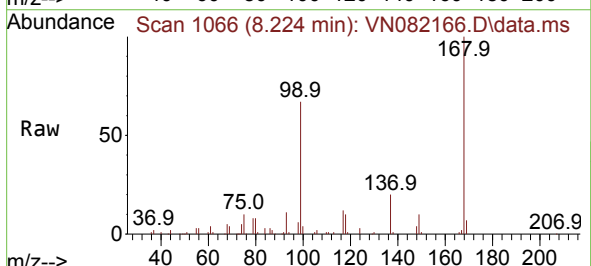
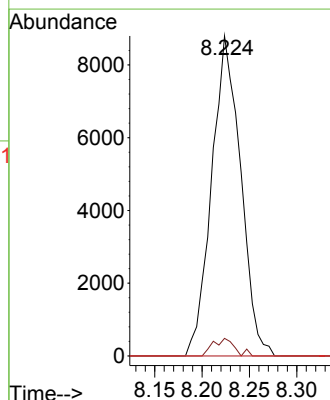
Tgt Ion: 117 Resp: 18741

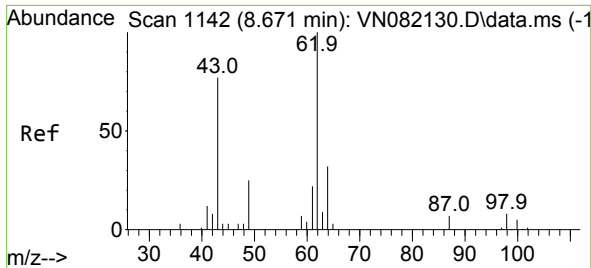
Ion Ratio Lower Upper

117 100

119 5.5 76.5 114.7#

121 0.0 23.9 35.9#

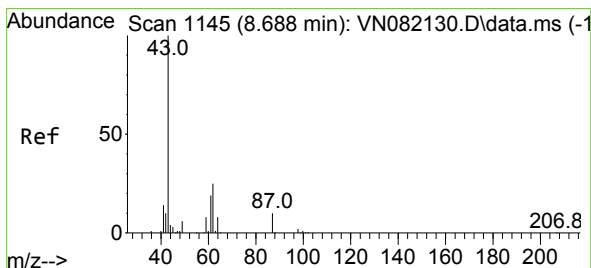
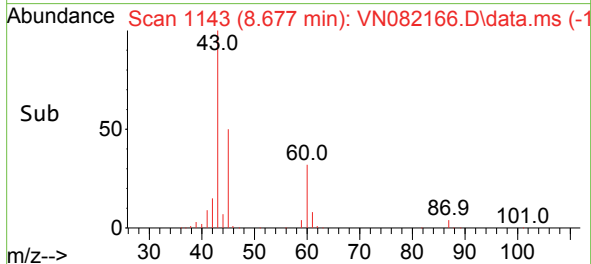
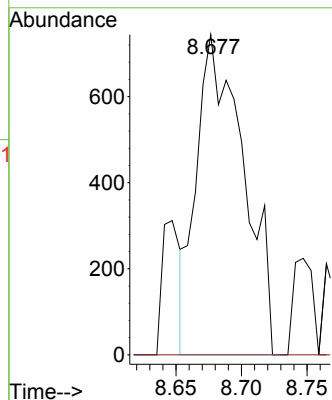
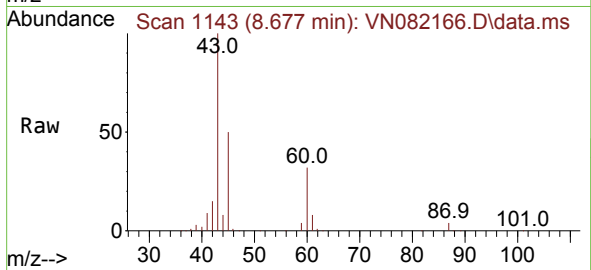




#42
1,2-Dichloroethane
Concen: 0.480 ug/l
RT: 8.677 min Scan# 1142
Delta R.T. 0.006 min
Lab File: VN082166.D
Acq: 16 May 2024 16:54

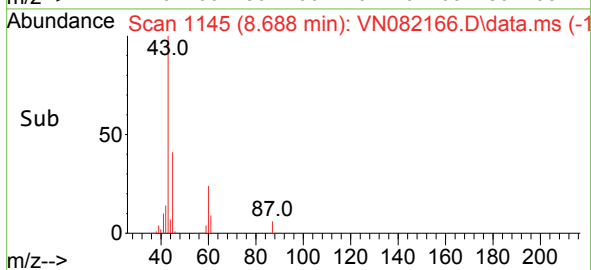
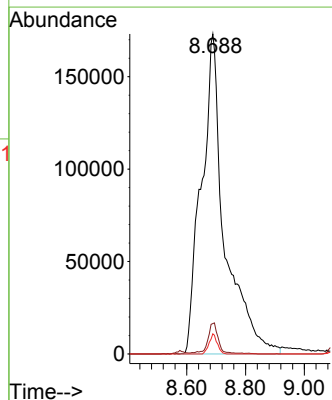
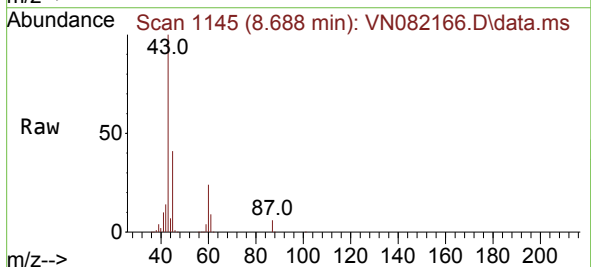
Instrument :
MSVOA_N
ClientSampleId :
PB160937ZHE#01

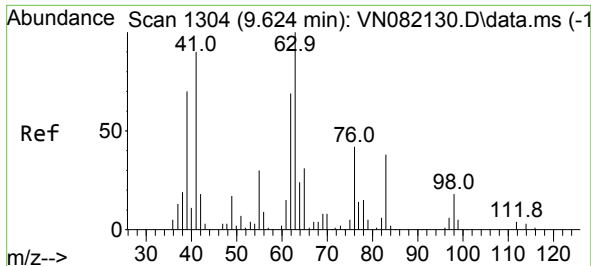
Tgt Ion: 62 Resp: 1847
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.6



#43
Isopropyl Acetate
Concen: 143.290 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. -0.000 min
Lab File: VN082166.D
Acq: 16 May 2024 16:54

Tgt Ion: 43 Resp: 952908
Ion Ratio Lower Upper
43 100
61 4.1 22.8 34.2#
87 2.2 12.0 18.0#





#45

1,2-Dichloropropane

Concen: 0.761 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.123 min

Lab File: VN082166.D

Acq: 16 May 2024 16:54

Instrument :

MSVOA_N

ClientSampleId :

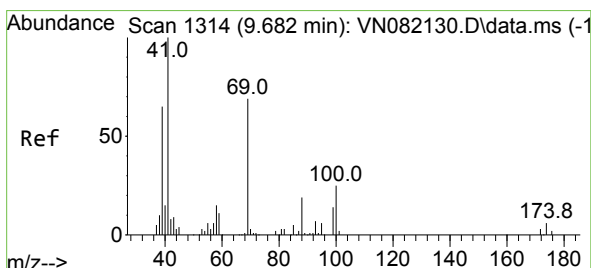
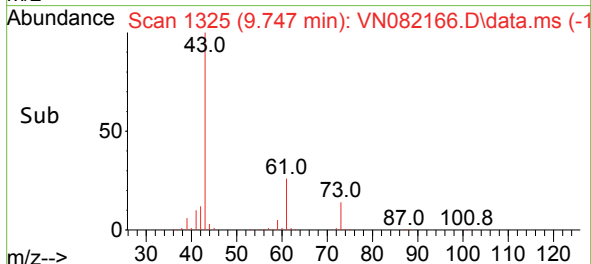
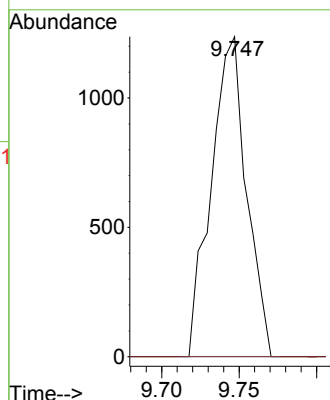
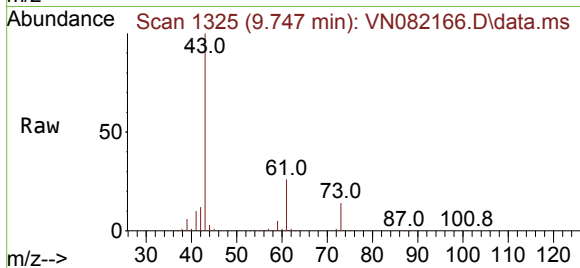
PB160937ZHE#01

Tgt Ion: 63 Resp: 1964

Ion Ratio Lower Upper

63 100

65 0.0 24.1 36.1#



#48

Methyl methacrylate

Concen: 1.654 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. -0.018 min

Lab File: VN082166.D

Acq: 16 May 2024 16:54

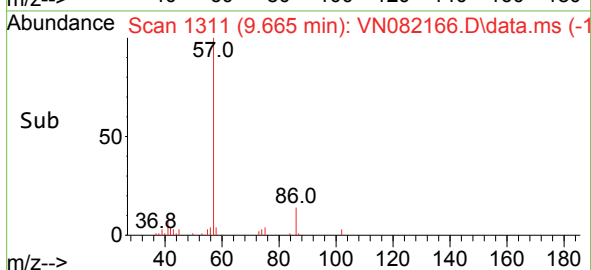
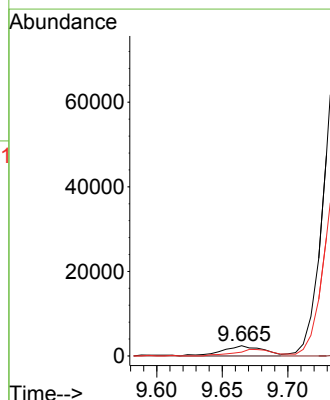
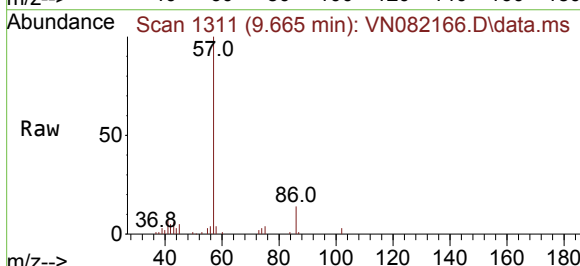
Tgt Ion: 41 Resp: 5242

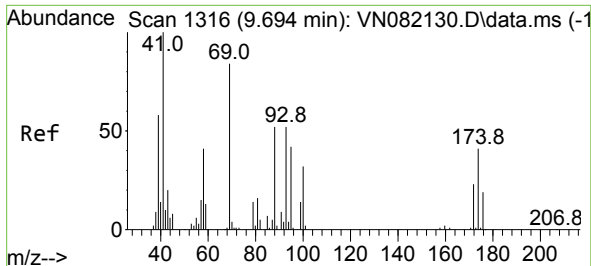
Ion Ratio Lower Upper

41 100

69 0.0 77.9 116.9#

39 60.3 50.9 76.3





#49

1,4-Dioxane

Concen: 3.018 ug/l

RT: 9.747 min Scan# 11

Delta R.T. 0.053 min

Lab File: VN082166.D

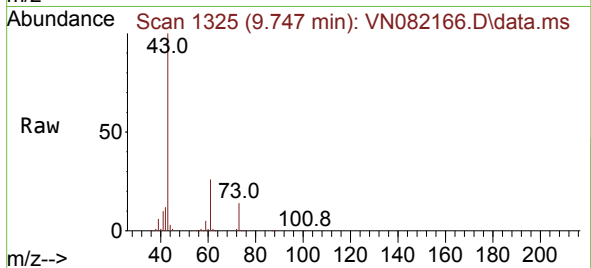
Acq: 16 May 2024 16:54

Instrument :

MSVOA_N

ClientSampleId :

PB160937ZHE#01



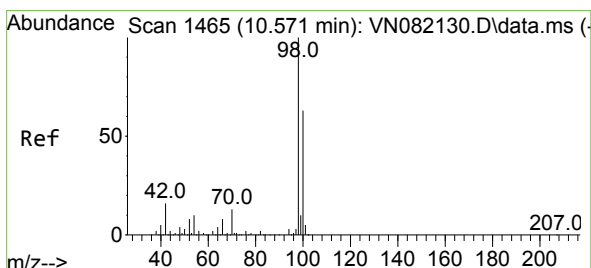
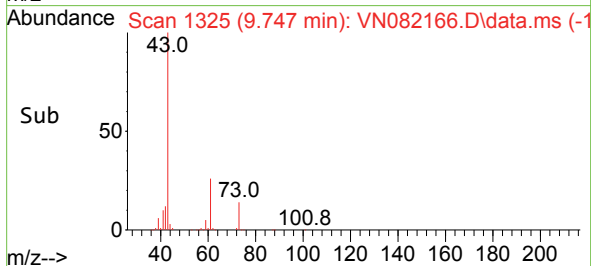
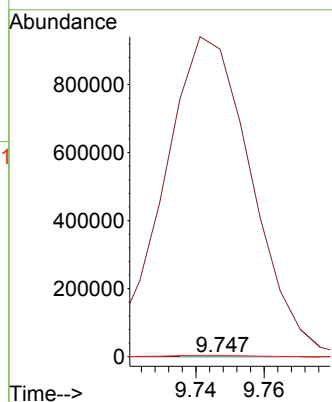
Tgt Ion: 88 Resp: 134

Ion Ratio Lower Upper

88 100

43 1268847.8 19.0 28.6#

58 5055.2 50.6 76.0#



#50

Toluene-d8

Concen: 54.480 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN082166.D

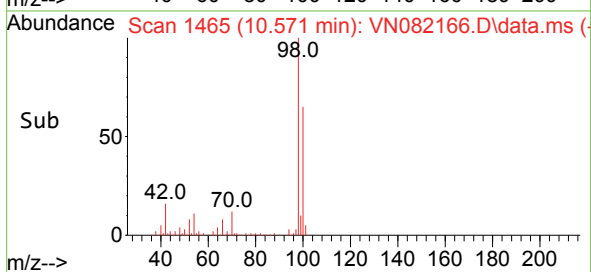
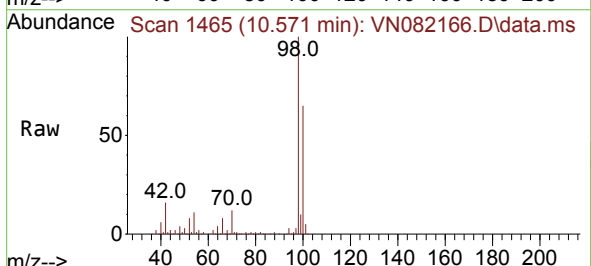
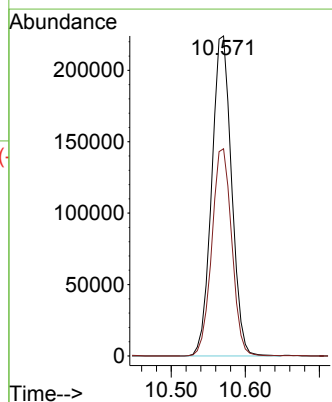
Acq: 16 May 2024 16:54

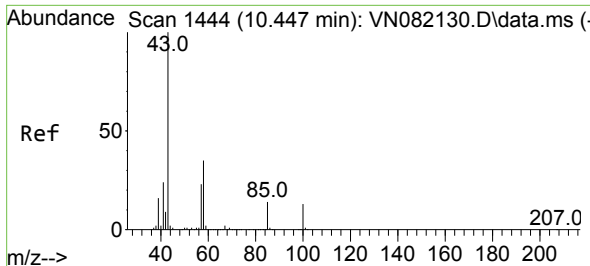
Tgt Ion: 98 Resp: 417652

Ion Ratio Lower Upper

98 100

100 64.9 51.8 77.6

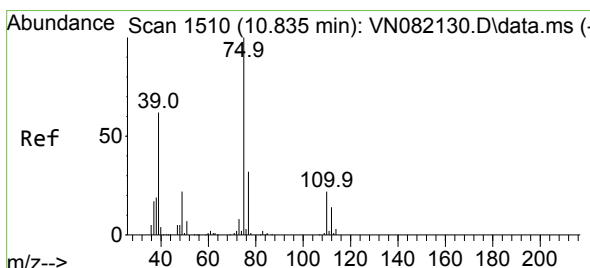
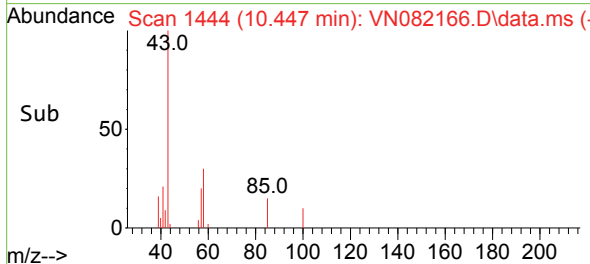
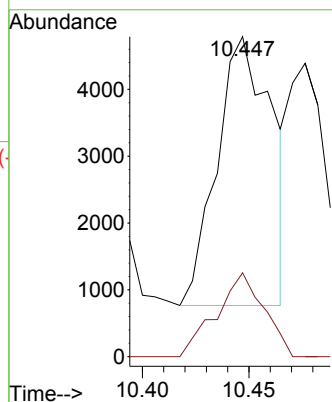
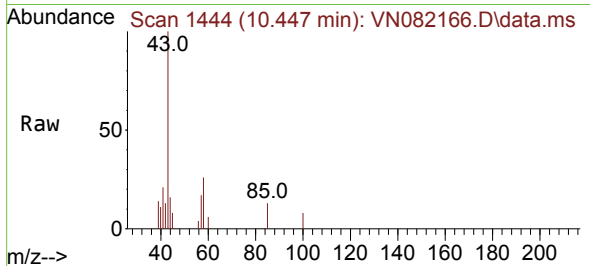




#51
4-Methyl-2-Pentanone
Concen: 1.913 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN082166.D
Acq: 16 May 2024 16:54

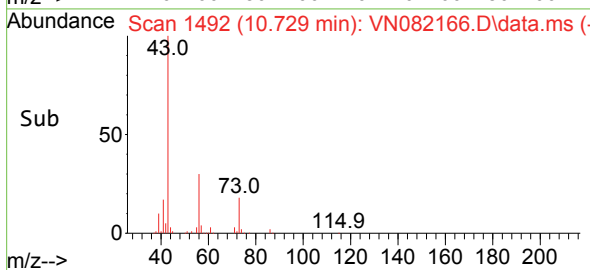
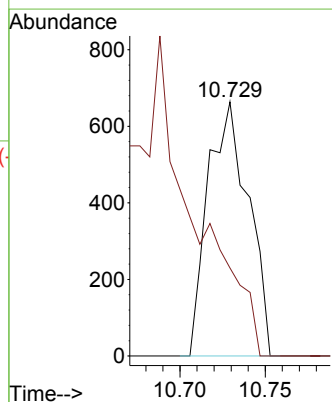
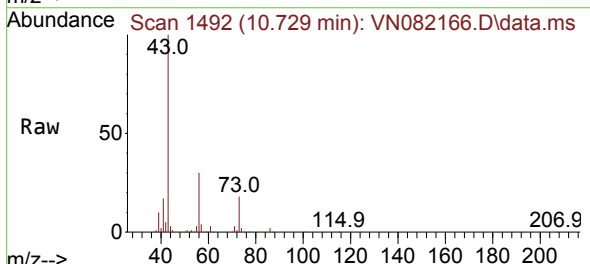
Instrument :
MSVOA_N
ClientSampleId :
PB160937ZHE#01

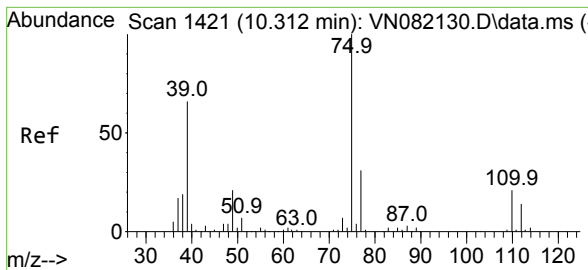
Tgt Ion: 43 Resp: 7229
Ion Ratio Lower Upper
43 100
58 27.0 33.2 49.8#



#53
t-1,3-Dichloropropene
Concen: 0.296 ug/l
RT: 10.729 min Scan# 1492
Delta R.T. -0.106 min
Lab File: VN082166.D
Acq: 16 May 2024 16:54

Tgt Ion: 75 Resp: 1096
Ion Ratio Lower Upper
75 100
77 34.6 25.4 38.0

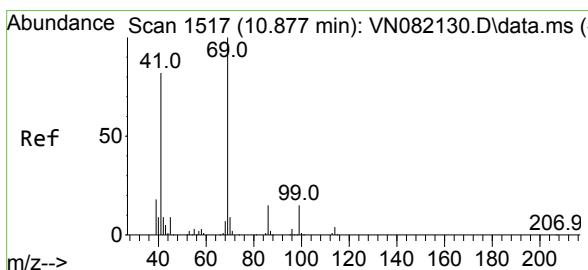
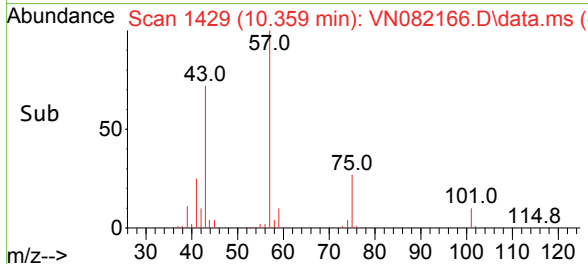
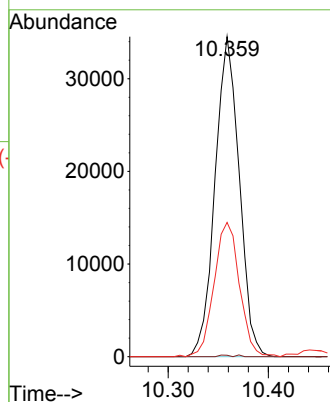
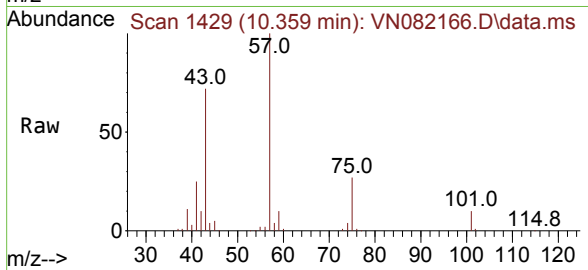




#54
 cis-1,3-Dichloropropene
 Concen: 14.771 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.047 min
 Lab File: VN082166.D
 Acq: 16 May 2024 16:54

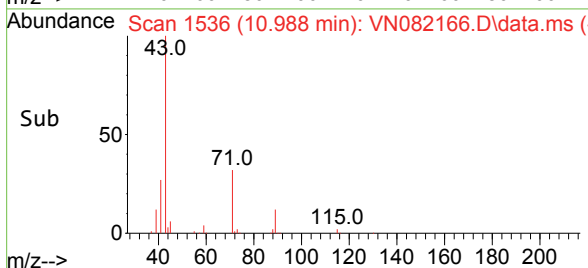
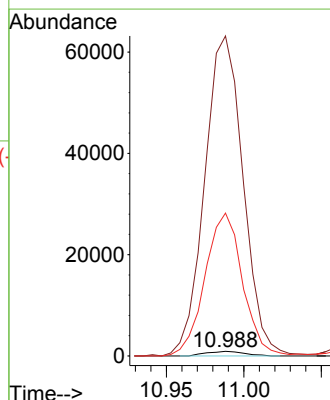
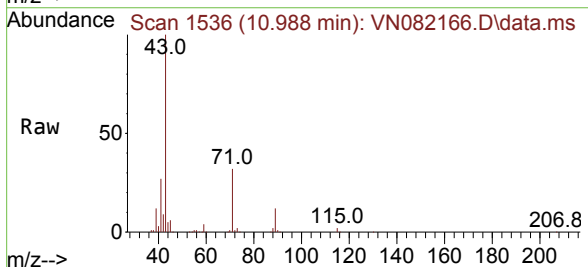
Instrument :
 MSVOA_N
 ClientSampleId :
 PB160937ZHE#01

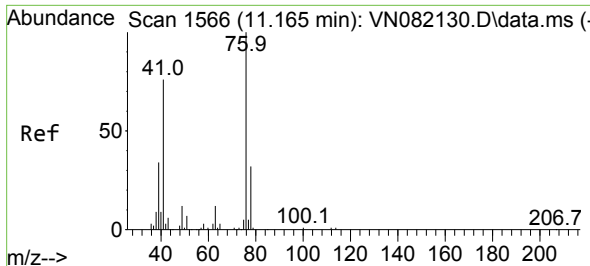
Tgt Ion: 75 Resp: 57828
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.0 37.4#
 39 42.0 34.8 52.2



#56
 Ethyl methacrylate
 Concen: 0.419 ug/l
 RT: 10.988 min Scan# 1536
 Delta R.T. 0.112 min
 Lab File: VN082166.D
 Acq: 16 May 2024 16:54

Tgt Ion: 69 Resp: 1553
 Ion Ratio Lower Upper
 69 100
 41 7043.5 46.6 70.0#
 39 3073.0 26.5 39.7#

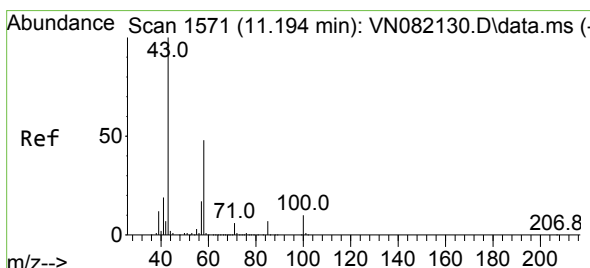
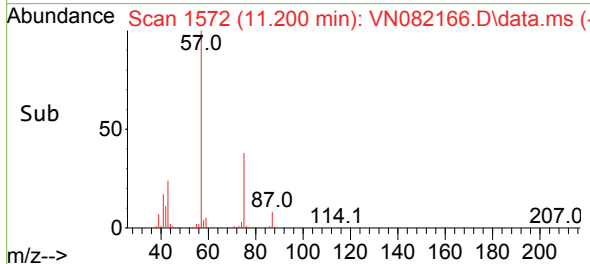
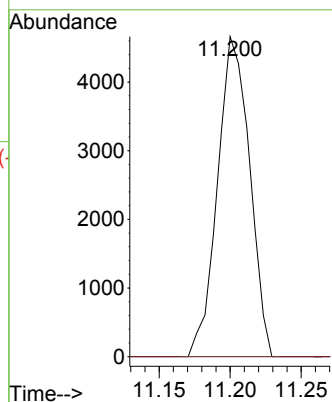
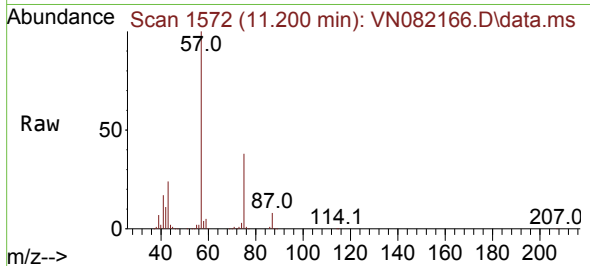




#57
1,3-Dichloropropane
Concen: 1.798 ug/l
RT: 11.200 min Scan# 1567
Delta R.T. 0.035 min
Lab File: VN082166.D
Acq: 16 May 2024 16:54

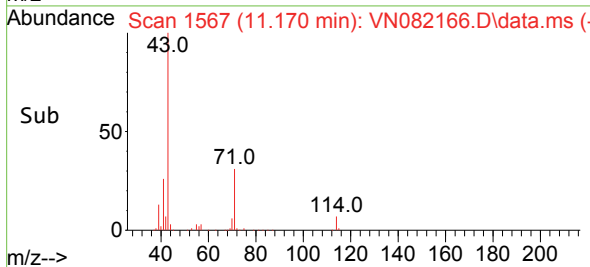
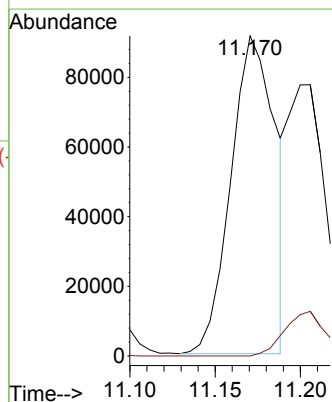
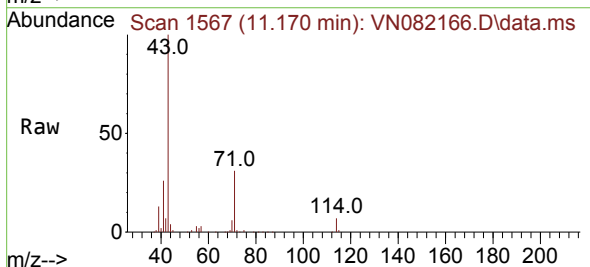
Instrument :
MSVOA_N
ClientSampleId :
PB160937ZHE#01

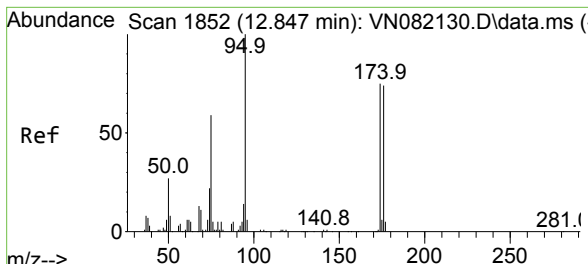
Tgt Ion: 76 Resp: 7330
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.6#



#59
2-Hexanone
Concen: 59.696 ug/l
RT: 11.170 min Scan# 1567
Delta R.T. -0.024 min
Lab File: VN082166.D
Acq: 16 May 2024 16:54

Tgt Ion: 43 Resp: 165155
Ion Ratio Lower Upper
43 100
58 0.0 28.3 84.9#

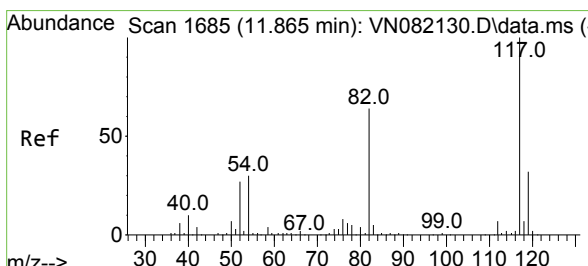
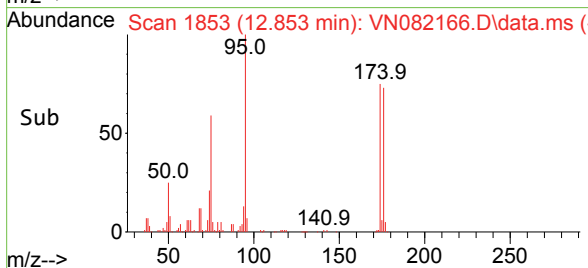
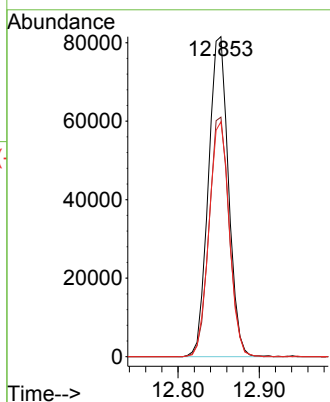
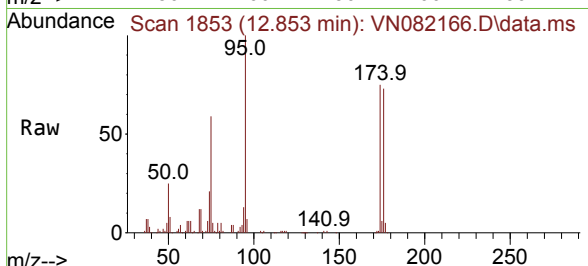




#62
4-Bromofluorobenzene
Concen: 51.111 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN082166.D
Acq: 16 May 2024 16:54

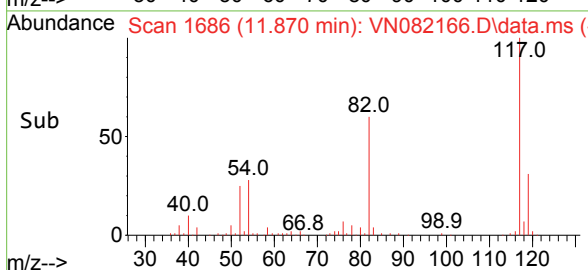
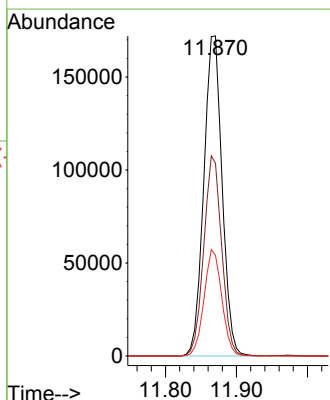
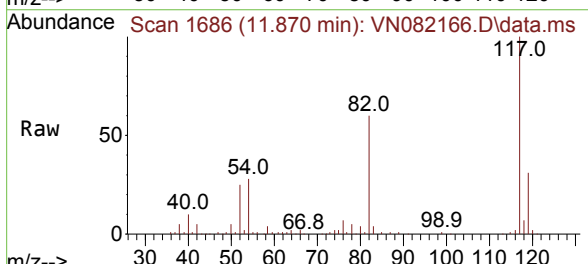
Instrument :
MSVOA_N
ClientSampleId :
PB160937ZHE#01

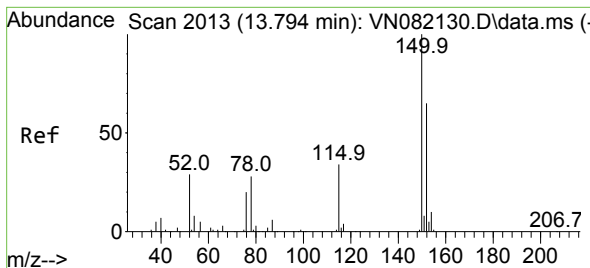
Tgt Ion:	95	Resp:	139852
Ion Ratio	Lower	Upper	
95	100		
174	74.8	0.0	160.6
176	74.1	0.0	152.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VN082166.D
Acq: 16 May 2024 16:54

Tgt Ion:	117	Resp:	309256
Ion Ratio	Lower	Upper	
117	100		
82	60.3	44.6	66.8
119	31.5	25.9	38.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 20

Delta R.T. -0.000 min

Lab File: VN082166.D

Acq: 16 May 2024 16:54

Instrument :

MSVOA_N

ClientSampleId :

PB160937ZHE#01

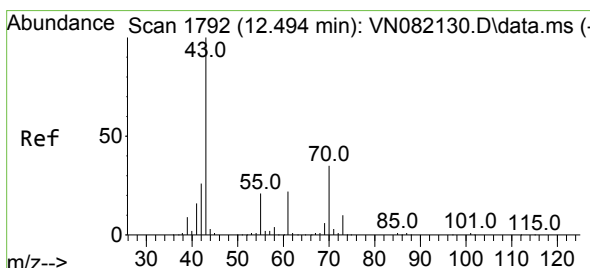
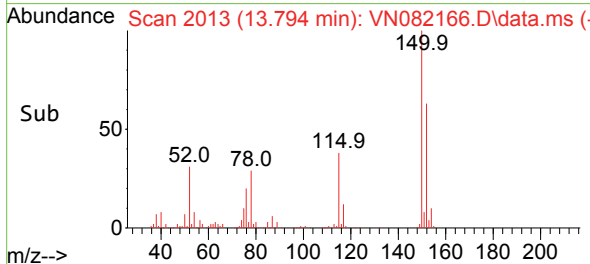
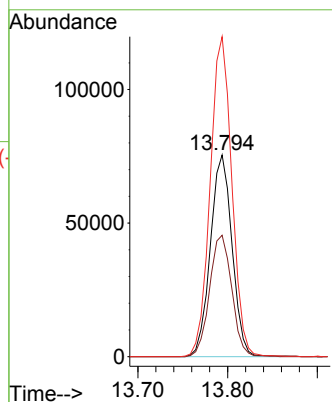
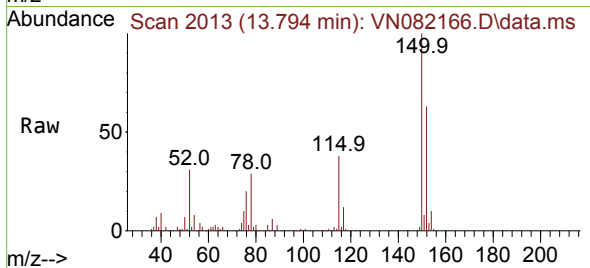
Tgt Ion:152 Resp: 126830

Ion Ratio Lower Upper

152 100

115 61.5 30.4 91.3

150 158.2 0.0 353.2



#74

N-ethyl acetate

Concen: 0.571 ug/l

RT: 12.482 min Scan# 1790

Delta R.T. -0.012 min

Lab File: VN082166.D

Acq: 16 May 2024 16:54

Tgt Ion: 43 Resp: 3166

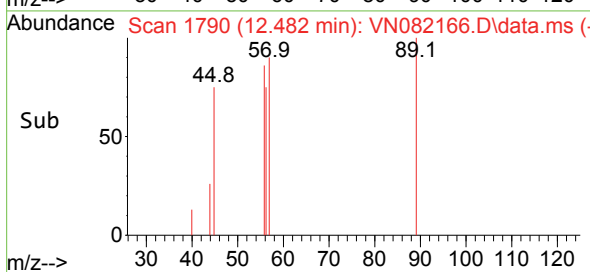
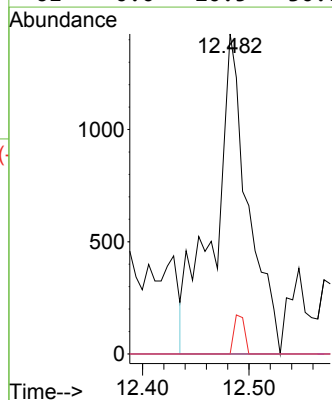
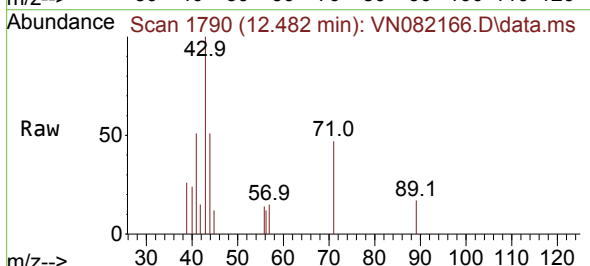
Ion Ratio Lower Upper

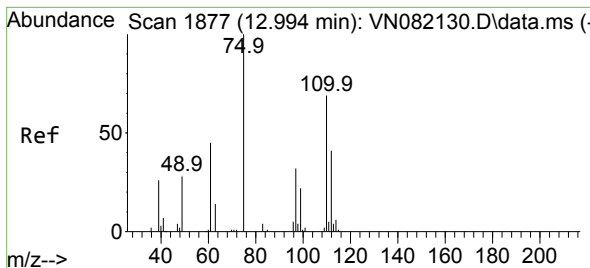
43 100

70 0.0 39.0 58.4#

55 3.8 21.3 31.9#

61 0.0 20.5 30.7#





#76

1,2,3-Trichloropropane

Concen: 31.157 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN082166.D

Acq: 16 May 2024 16:54

Instrument :

MSVOA_N

ClientSampleId :

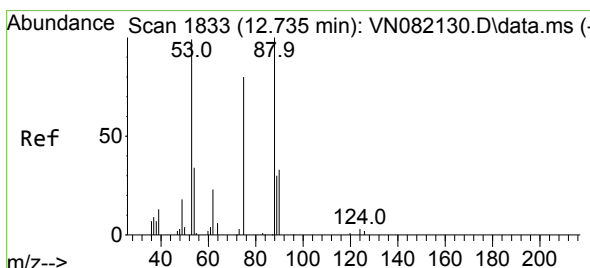
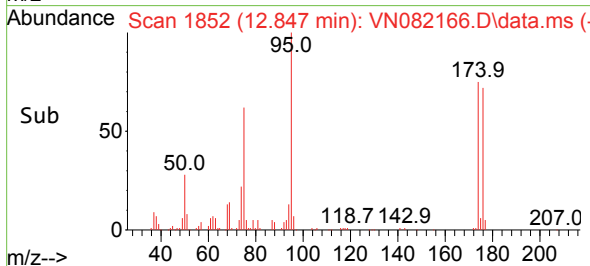
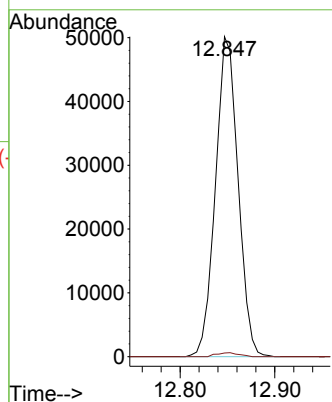
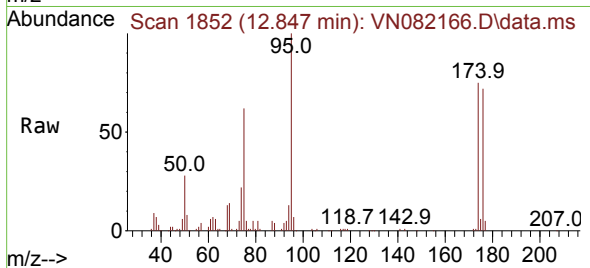
PB160937ZHE#01

Tgt Ion: 75 Resp: 83174

Ion Ratio Lower Upper

75 100

77 1.2 90.5 271.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 72.876 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.112 min

Lab File: VN082166.D

Acq: 16 May 2024 16:54

Tgt Ion: 75 Resp: 83174

Ion Ratio Lower Upper

75 100

53 0.0 72.9 109.3#

89 0.0 39.1 58.7#

