

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052623\
 Data File : VN077947.D
 Acq On : 27 May 2023 01:15
 Operator : JC\MD
 Sample : 02953-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PNNL-RH-524-1

Quant Time: May 29 01:40:58 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051523W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 16 04:07:42 2023
 Response via : Initial Calibration

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

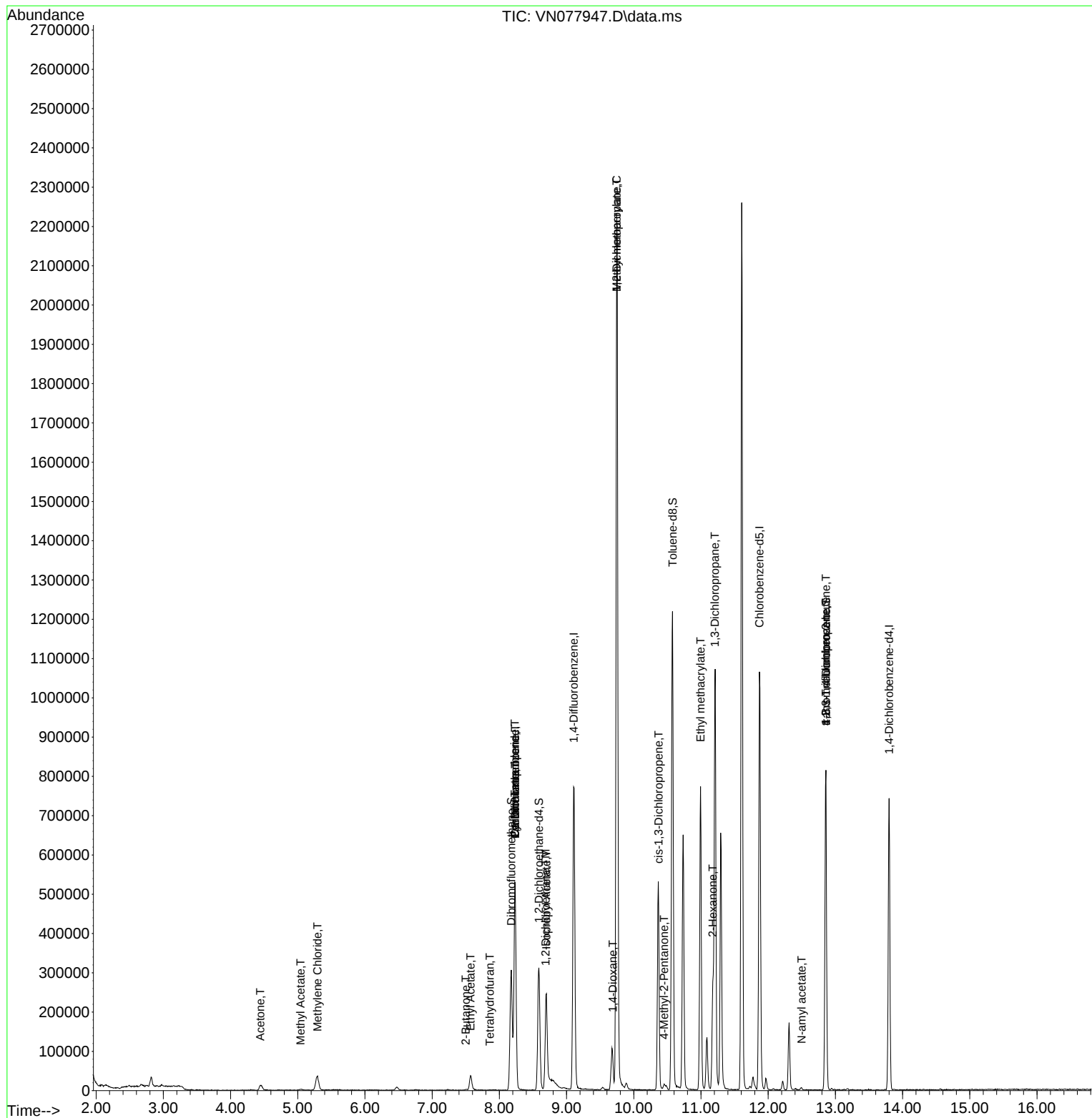
Internal Standards						
1) Pentafluorobenzene	8.235	168	374528	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	687099	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	641093	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	196066	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	262354	46.816	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	93.640%		
35) Dibromofluoromethane	8.177	113	222452	49.649	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	99.300%		
50) Toluene-d8	10.576	98	877778	50.898	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	101.800%		
62) 4-Bromofluorobenzene	12.859	95	285713	46.909	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	93.820%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	1332	Below Cal	#	42
13) Acrolein	4.189	56	241	Below Cal		99
16) Acetone	4.442	43	26415	14.982	ug/l	94
18) Methyl Acetate	5.042	43	4736	0.640	ug/l #	46
20) Methylene Chloride	5.294	84	29241	4.577	ug/l	92
25) 2-Butanone	7.500	43	2801	1.016	ug/l #	76
29) Tetrahydrofuran	7.859	42	379	0.210	ug/l #	20
31) Cyclohexane	8.235	56	9496	1.247	ug/l #	37
36) 1,1-Dichloropropene	8.235	75	33696	5.142	ug/l #	48
37) Ethyl Acetate	7.571	43	55359	9.477	ug/l #	96
38) Carbon Tetrachloride	8.230	117	41060	6.205	ug/l #	17
42) 1,2-Dichloroethane	8.688	62	1822	0.259	ug/l #	73
43) Isopropyl Acetate	8.700	43	302532	31.709	ug/l #	78
45) 1,2-Dichloropropane	9.747	63	2627	0.533	ug/l #	45
48) Methyl methacrylate	9.747	41	202947	44.865	ug/l #	28
49) 1,4-Dioxane	9.688	88	79	0.925	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	9131	1.610	ug/l #	86
54) cis-1,3-Dichloropropene	10.371	75	96933	12.291	ug/l #	67
56) Ethyl methacrylate	10.994	69	2698	0.373	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	12298	1.501	ug/l #	42
59) 2-Hexanone	11.176	43	210600	50.205	ug/l #	19
74) N-amyl acetate	12.500	43	3090	0.495	ug/l #	46
76) 1,2,3-Trichloropropane	12.859	75	150452	30.641	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.859	75	150452	97.944	ug/l #	15

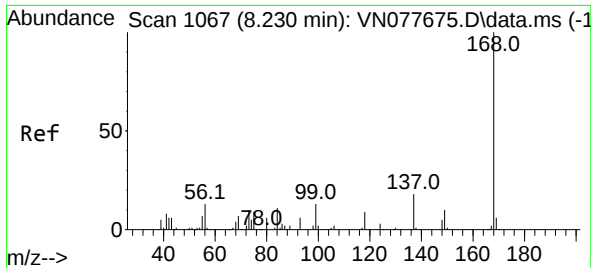
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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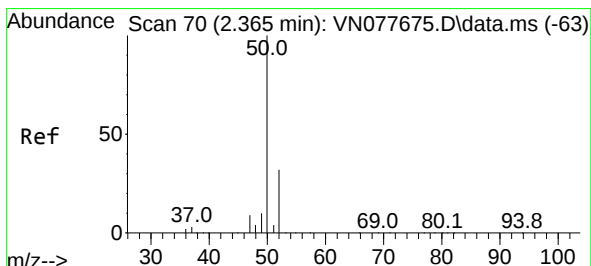
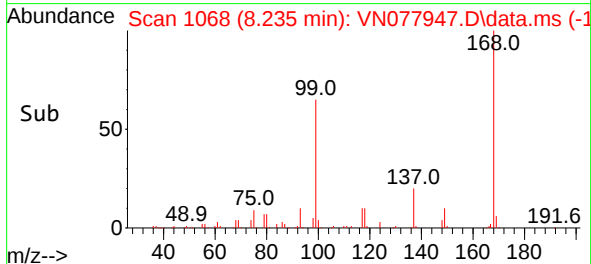
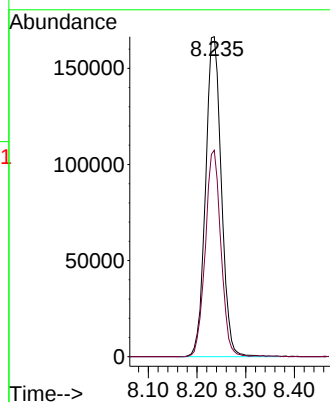
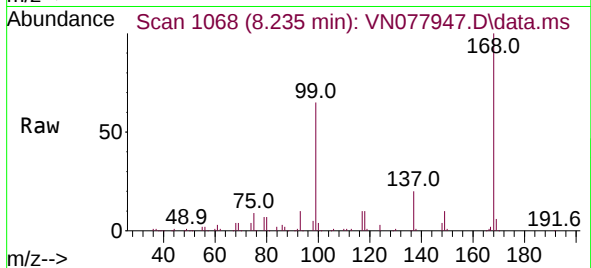




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 10
Delta R.T. 0.005 min
Lab File: VN077947.D
Acq: 27 May 2023 01:15

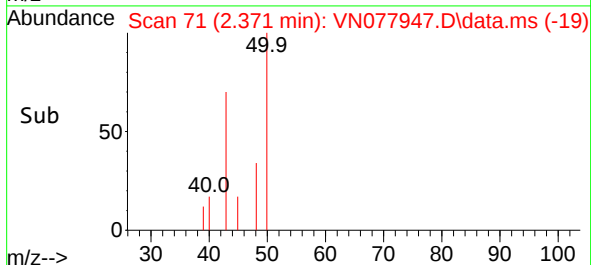
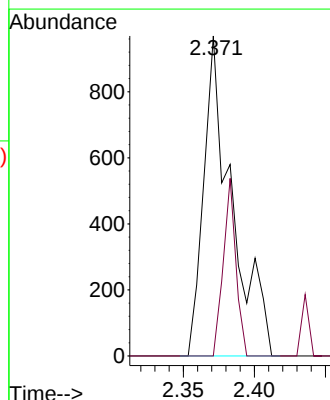
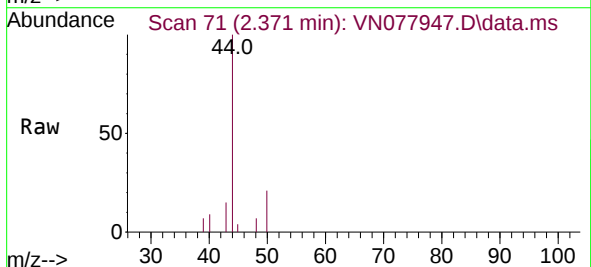
Instrument :
MSVOA_N
ClientSampleId :
PNNL-RH-524-1

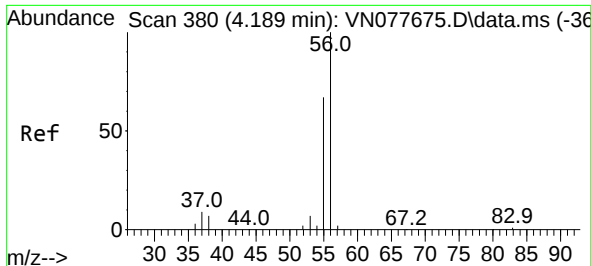
Tgt Ion:168 Resp: 374528
Ion Ratio Lower Upper
168 100
99 64.5 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.371 min Scan# 71
Delta R.T. 0.006 min
Lab File: VN077947.D
Acq: 27 May 2023 01:15

Tgt Ion: 50 Resp: 1332
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#

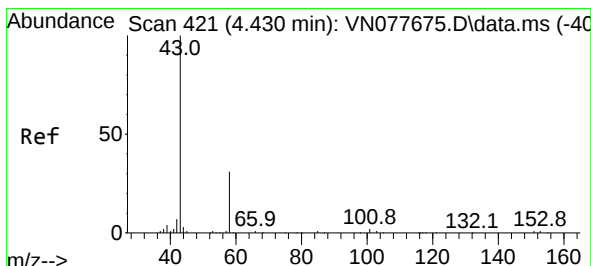
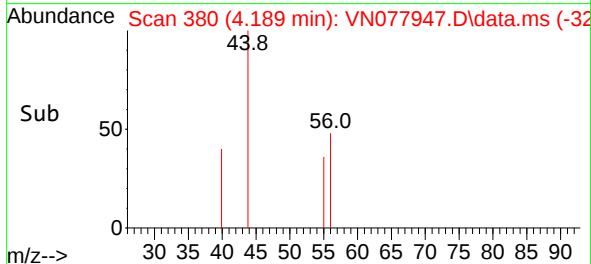
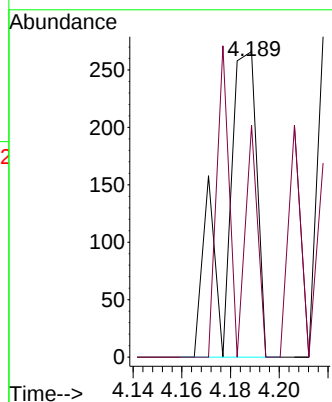
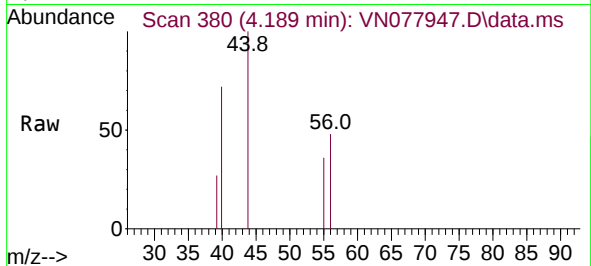




#13
Acrolein
Concen: Below Cal
RT: 4.189 min Scan# 380
Delta R.T. -0.000 min
Lab File: VN077947.D
Acq: 27 May 2023 01:15

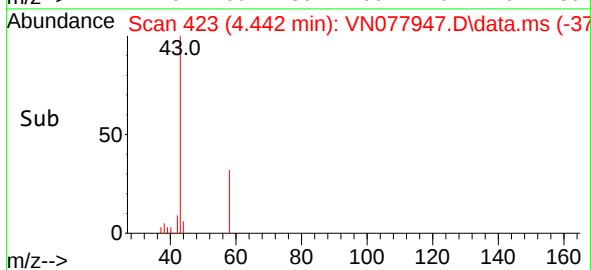
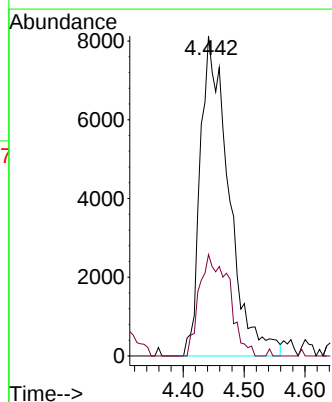
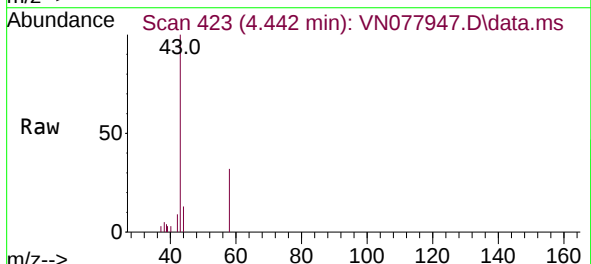
Instrument :
MSVOA_N
ClientSampleId :
PNNL-RH-524-1

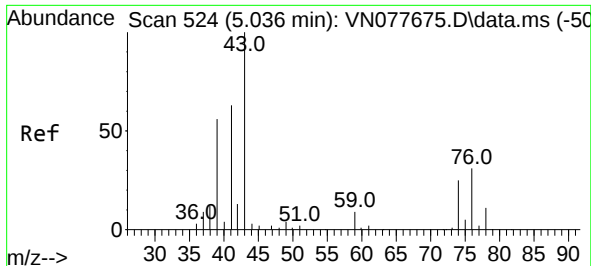
Tgt Ion: 56 Resp: 241
Ion Ratio Lower Upper
56 100
55 69.3 54.5 81.7



#16
Acetone
Concen: 14.982 ug/l
RT: 4.442 min Scan# 423
Delta R.T. 0.012 min
Lab File: VN077947.D
Acq: 27 May 2023 01:15

Tgt Ion: 43 Resp: 26415
Ion Ratio Lower Upper
43 100
58 31.7 28.0 42.0

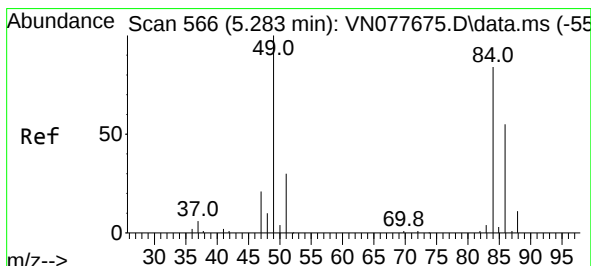
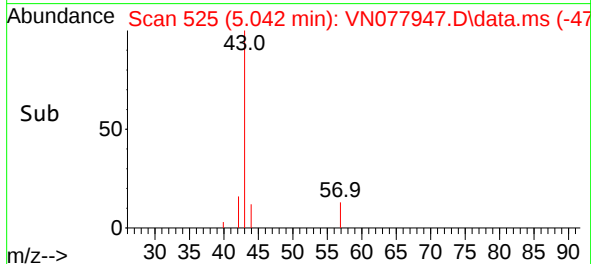
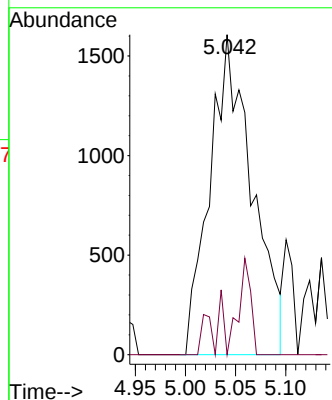
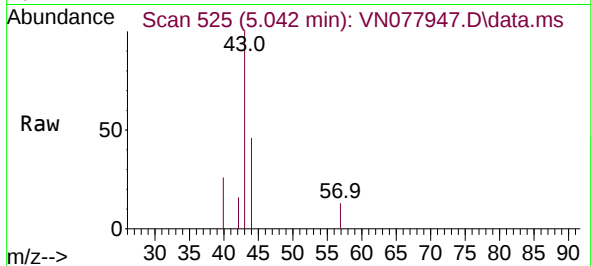




#18
Methyl Acetate
Concen: 0.640 ug/l
RT: 5.042 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN077947.D
Acq: 27 May 2023 01:15

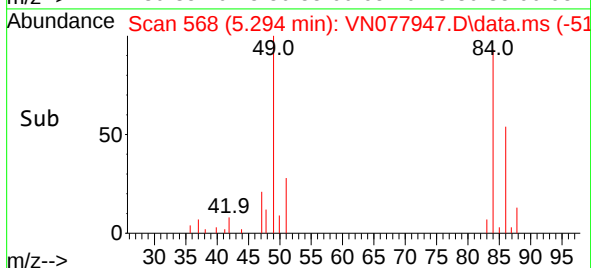
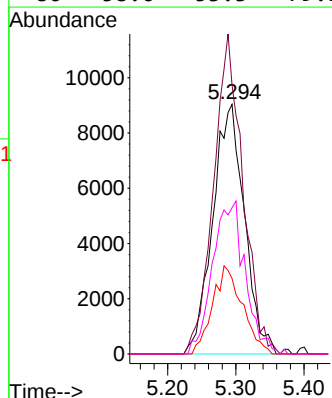
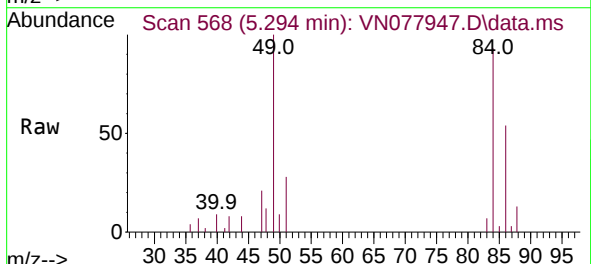
Instrument :
MSVOA_N
ClientSampleId :
PNNL-RH-524-1

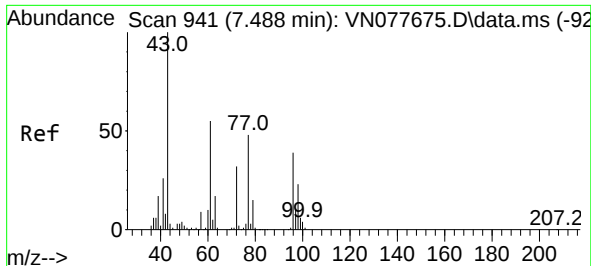
Tgt Ion: 43 Resp: 4736
Ion Ratio Lower Upper
43 100
74 2.4 26.2 39.4#



#20
Methylene Chloride
Concen: 4.577 ug/l
RT: 5.294 min Scan# 568
Delta R.T. 0.011 min
Lab File: VN077947.D
Acq: 27 May 2023 01:15

Tgt Ion: 84 Resp: 29241
Ion Ratio Lower Upper
84 100
49 107.7 79.7 119.5
51 30.2 25.2 37.8
86 58.6 53.3 79.9

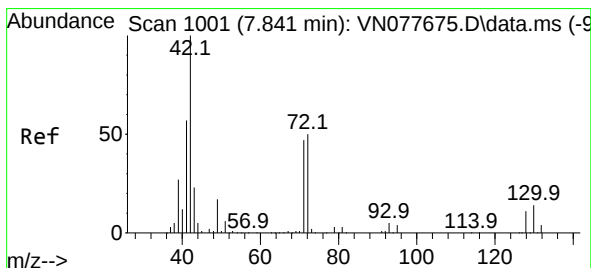
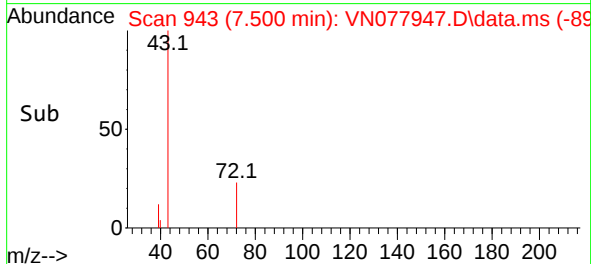
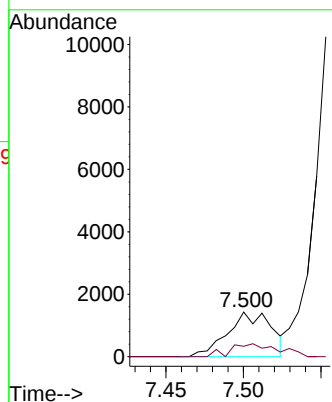
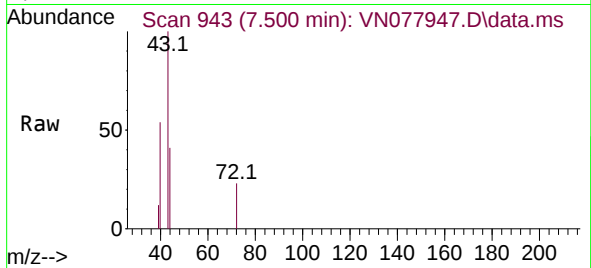




#25
2-Butanone
Concen: 1.016 ug/l
RT: 7.500 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN077947.D
Acq: 27 May 2023 01:15

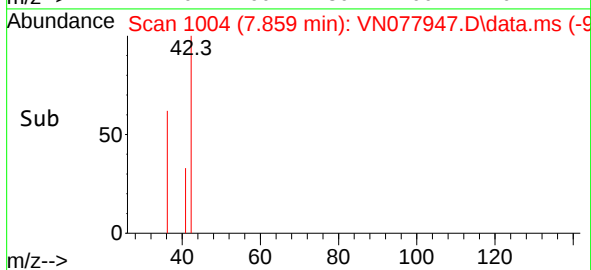
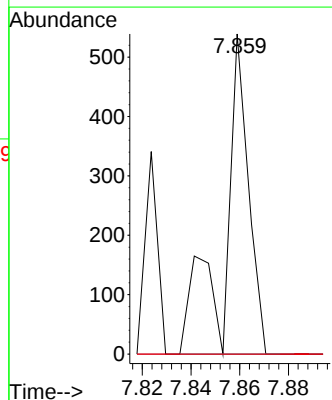
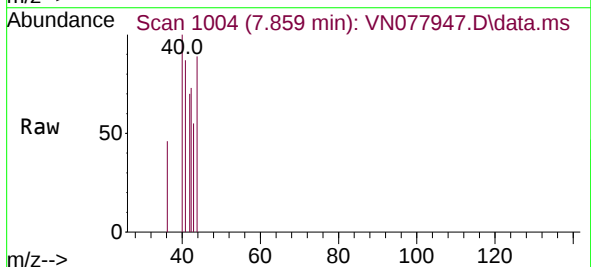
Instrument :
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ClientSampleId :
PNNL-RH-524-1

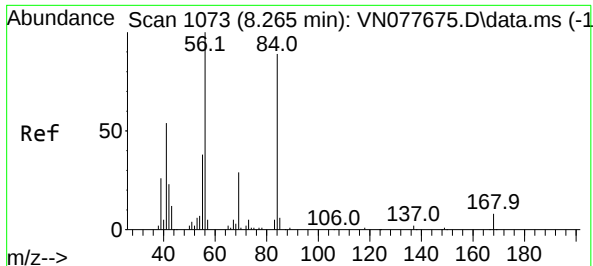
Tgt Ion: 43 Resp: 2801
Ion Ratio Lower Upper
43 100
72 23.3 30.2 45.2#



#29
Tetrahydrofuran
Concen: 0.210 ug/l
RT: 7.859 min Scan# 1004
Delta R.T. 0.018 min
Lab File: VN077947.D
Acq: 27 May 2023 01:15

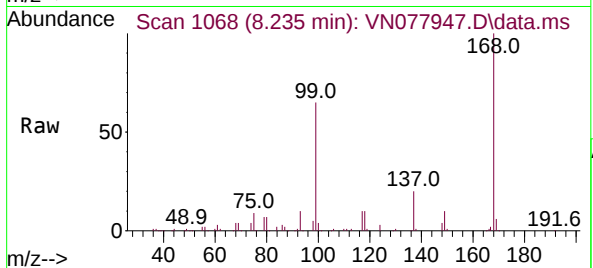
Tgt Ion: 42 Resp: 379
Ion Ratio Lower Upper
42 100
72 0.0 49.8 74.6#
71 0.0 47.4 71.2#



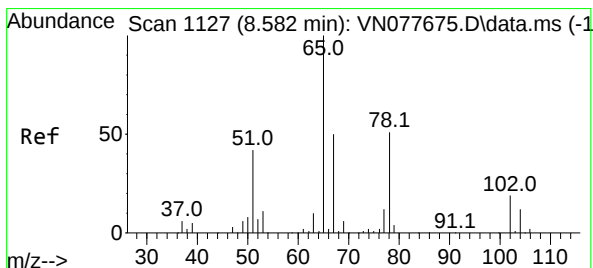
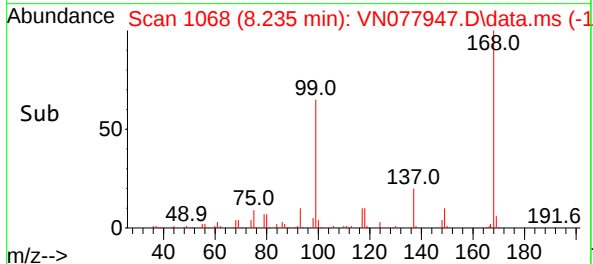
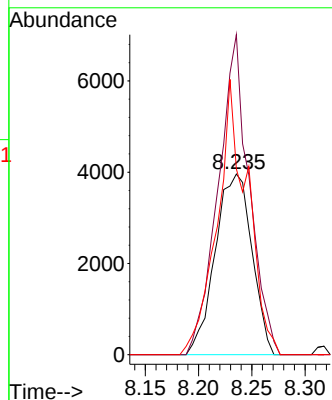


#31
Cyclohexane
Concen: 1.247 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.030 min
Lab File: VN077947.D
Acq: 27 May 2023 01:15

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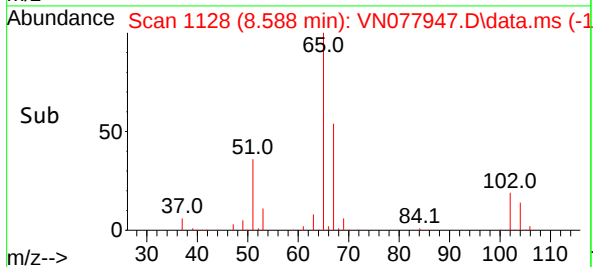
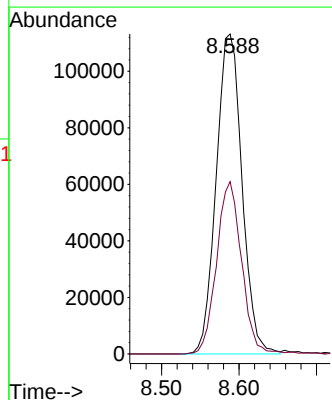
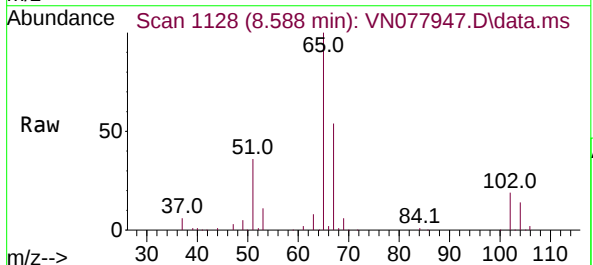


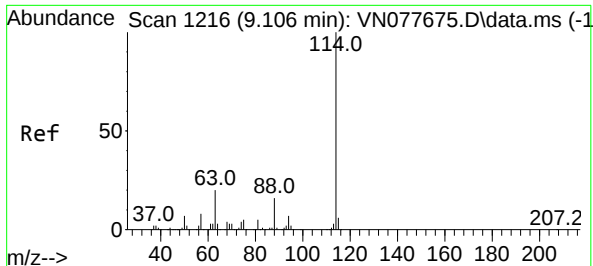
Tgt Ion: 56 Resp: 9496
Ion Ratio Lower Upper
56 100
69 177.2 26.8 40.2#
84 102.8 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 46.816 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN077947.D
Acq: 27 May 2023 01:15

Tgt Ion: 65 Resp: 262354
Ion Ratio Lower Upper
65 100
67 52.2 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN077947.D

Acq: 27 May 2023 01:15

Instrument :

MSVOA_N

ClientSampleId :

PNNL-RH-524-1

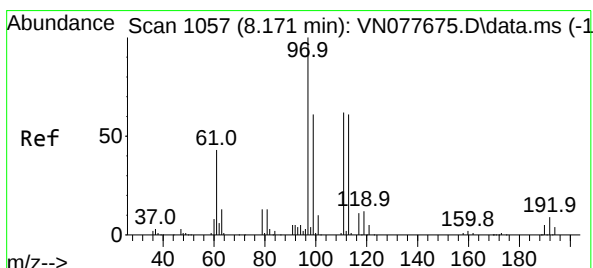
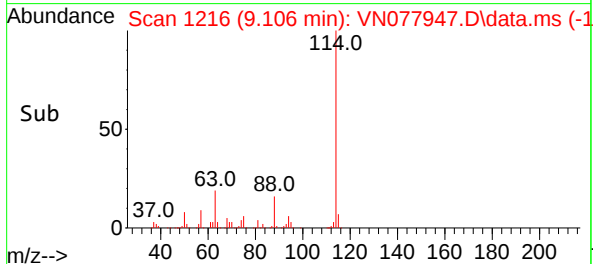
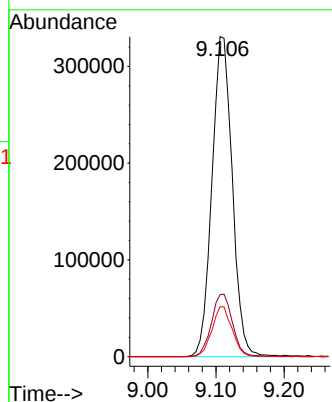
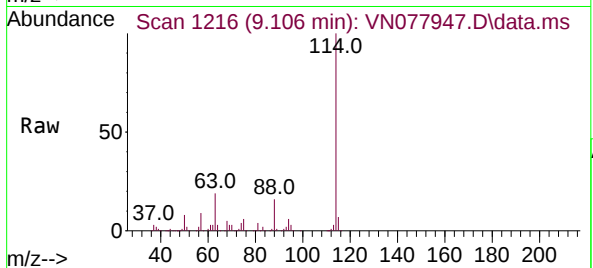
Tgt Ion:114 Resp: 687099

Ion Ratio Lower Upper

114 100

63 19.4 0.0 36.4

88 15.6 0.0 30.6



#35

Dibromofluoromethane

Concen: 49.649 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN077947.D

Acq: 27 May 2023 01:15

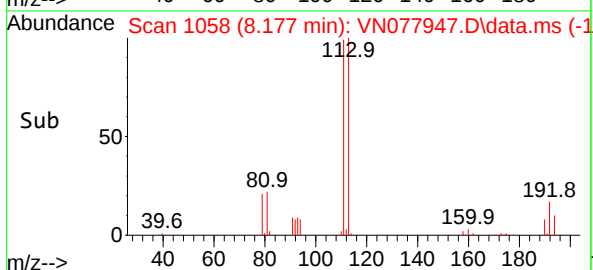
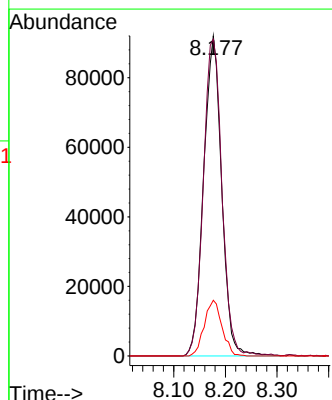
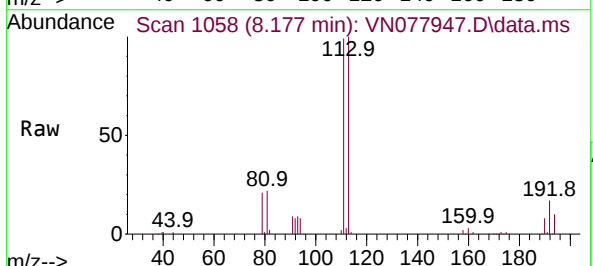
Tgt Ion:113 Resp: 222452

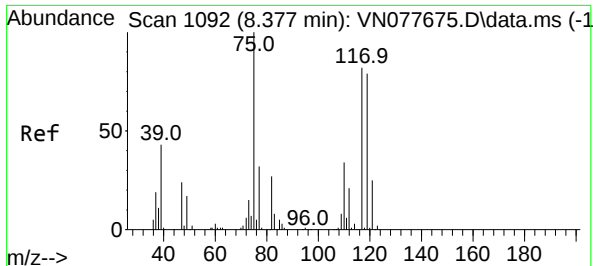
Ion Ratio Lower Upper

113 100

111 102.4 82.6 123.8

192 17.1 12.7 19.1





#36

1,1-Dichloropropene

Concen: 5.142 ug/l

RT: 8.235 min Scan# 1092

Delta R.T. -0.142 min

Lab File: VN077947.D

Acq: 27 May 2023 01:15

Instrument :

MSVOA_N

ClientSampleId :

PNNL-RH-524-1

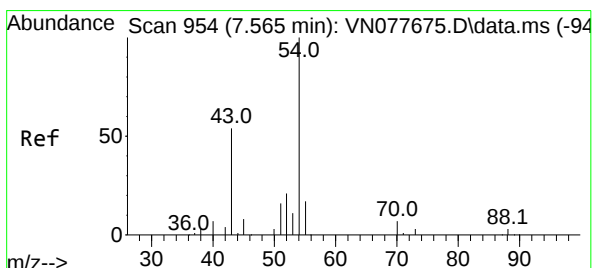
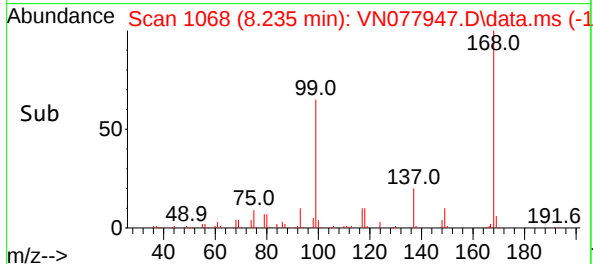
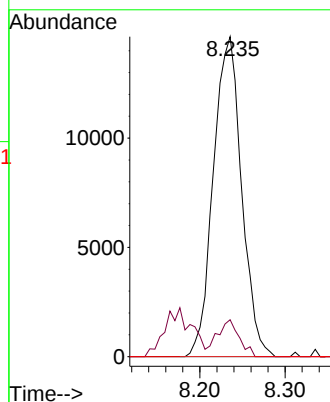
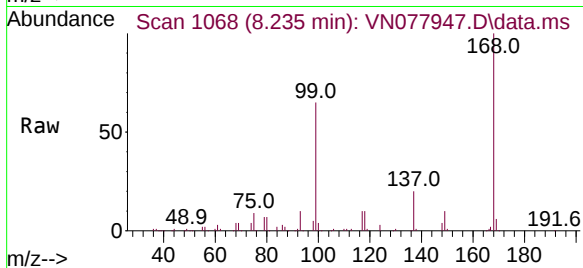
Tgt Ion: 75 Resp: 33696

Ion Ratio Lower Upper

75 100

110 9.0 19.1 57.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 9.477 ug/l

RT: 7.571 min Scan# 955

Delta R.T. 0.006 min

Lab File: VN077947.D

Acq: 27 May 2023 01:15

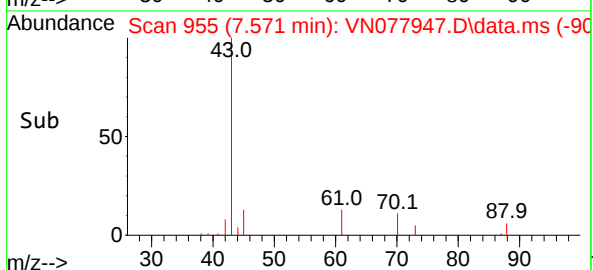
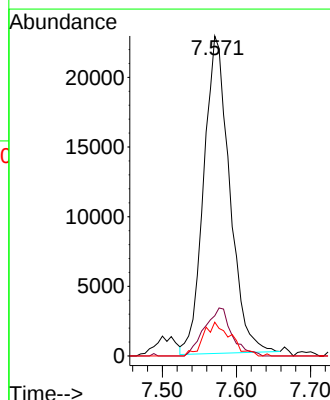
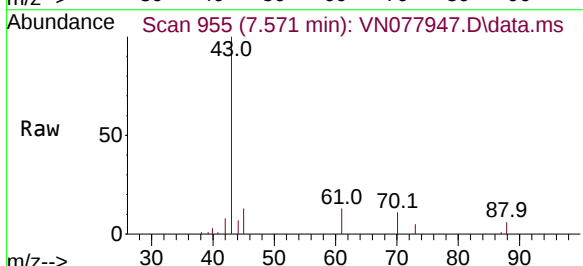
Tgt Ion: 43 Resp: 55359

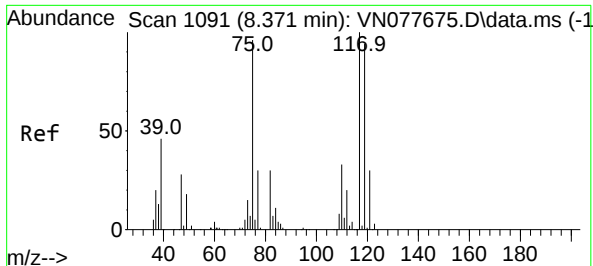
Ion Ratio Lower Upper

43 100

61 15.9 13.2 19.8

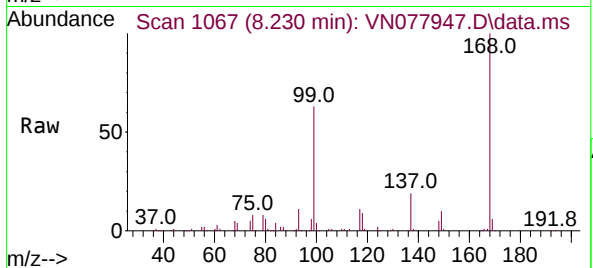
70 11.2 11.3 16.9#



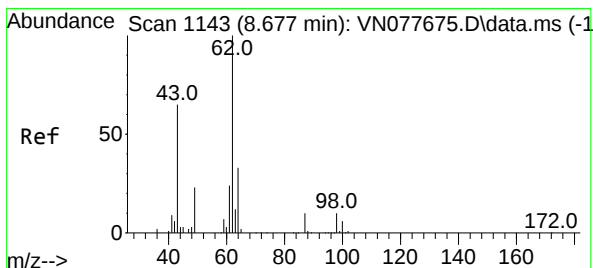
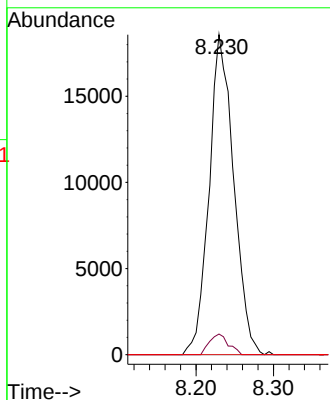
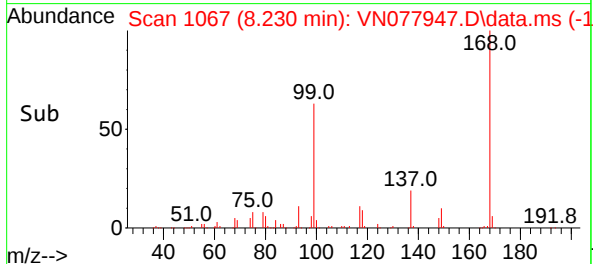


#38
Carbon Tetrachloride
Concen: 6.205 ug/l
RT: 8.230 min Scan# 1106
Delta R.T. -0.141 min
Lab File: VN077947.D
Acq: 27 May 2023 01:15

Instrument :
MSVOA_N
ClientSampleId :
PNNL-RH-524-1

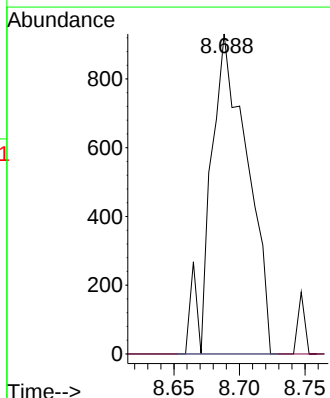
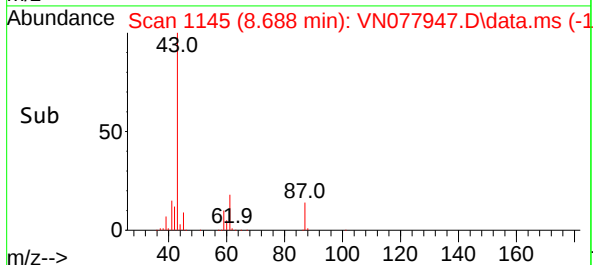
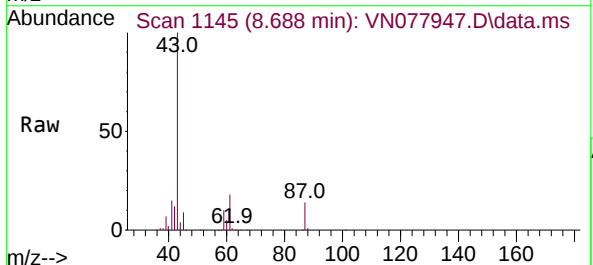


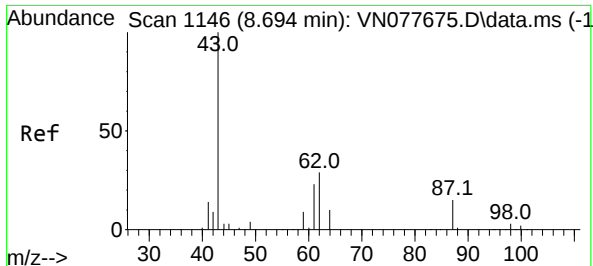
Tgt Ion:117 Resp: 41060
Ion Ratio Lower Upper
117 100
119 6.4 77.3 115.9#
121 0.0 23.3 34.9#



#42
1,2-Dichloroethane
Concen: 0.259 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.011 min
Lab File: VN077947.D
Acq: 27 May 2023 01:15

Tgt Ion: 62 Resp: 1822
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.8

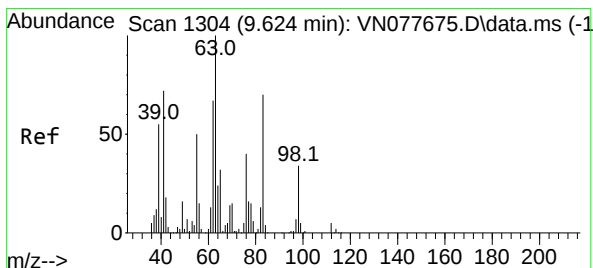
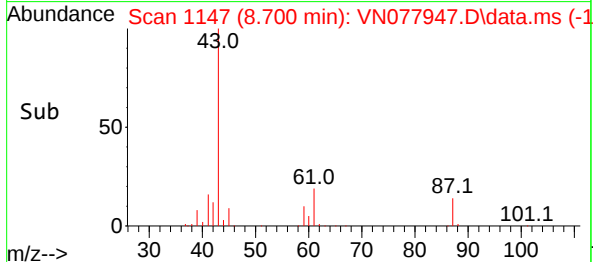
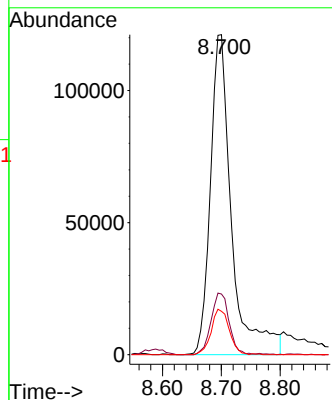
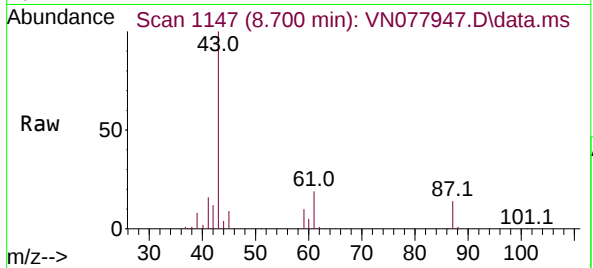




#43
Isopropyl Acetate
Concen: 31.709 ug/l
RT: 8.700 min Scan# 1146
Delta R.T. 0.006 min
Lab File: VN077947.D
Acq: 27 May 2023 01:15

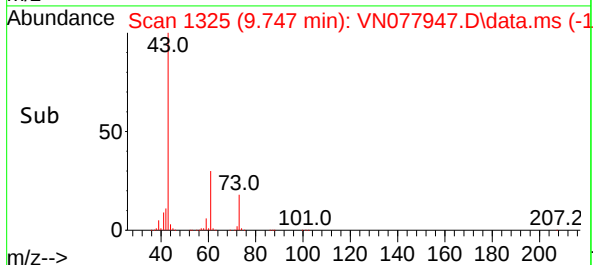
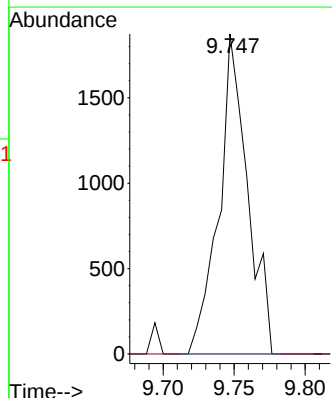
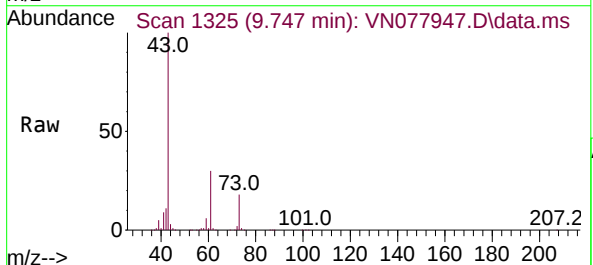
Instrument :
MSVOA_N
ClientSampleId :
PNNL-RH-524-1

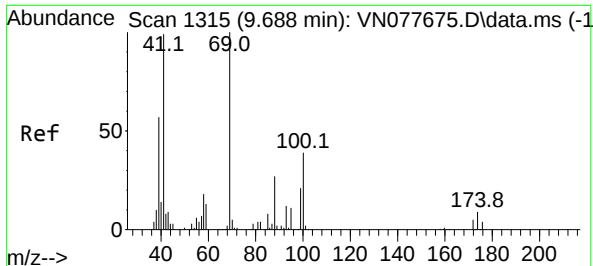
Tgt Ion: 43 Resp: 302532
Ion Ratio Lower Upper
43 100
61 16.4 24.7 37.1#
87 12.1 14.6 21.8#



#45
1,2-Dichloropropane
Concen: 0.533 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.123 min
Lab File: VN077947.D
Acq: 27 May 2023 01:15

Tgt Ion: 63 Resp: 2627
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#





#48

Methyl methacrylate

Concen: 44.865 ug/l

RT: 9.747 min Scan# 1

Delta R.T. 0.059 min

Lab File: VN077947.D

Acq: 27 May 2023 01:15

Instrument :

MSVOA_N

ClientSampleId :

PNNL-RH-524-1

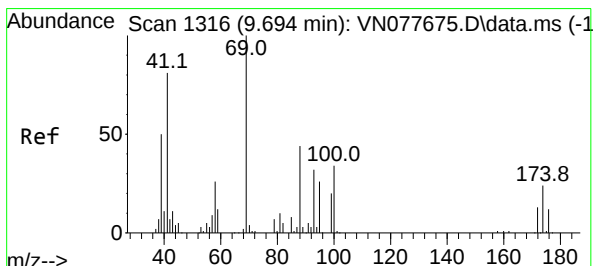
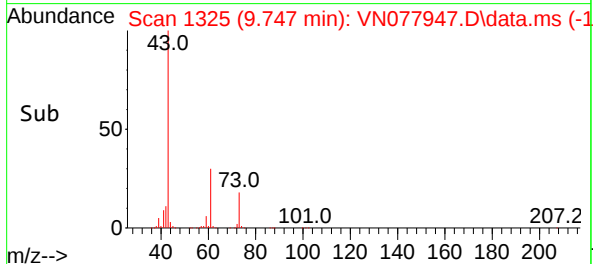
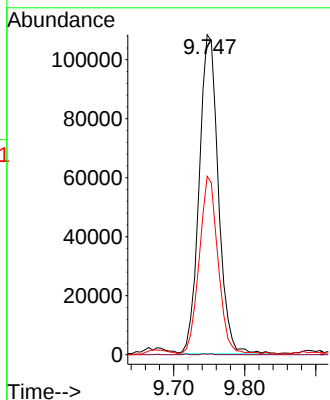
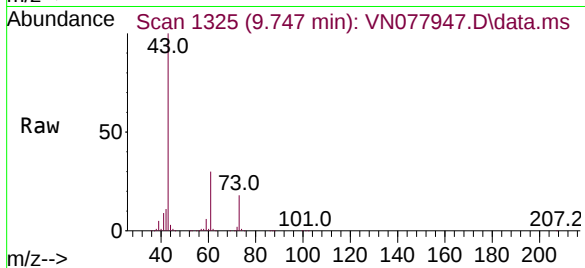
Tgt Ion: 41 Resp: 202947

Ion Ratio Lower Upper

41 100

69 0.1 90.4 135.6#

39 54.7 54.6 81.8



#49

1,4-Dioxane

Concen: 0.925 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. -0.006 min

Lab File: VN077947.D

Acq: 27 May 2023 01:15

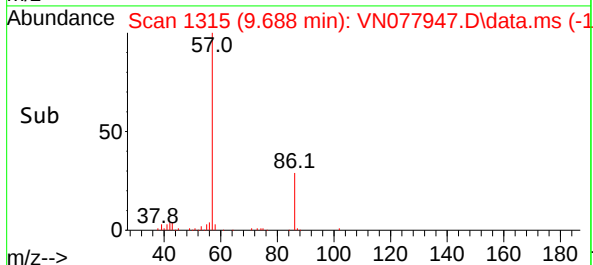
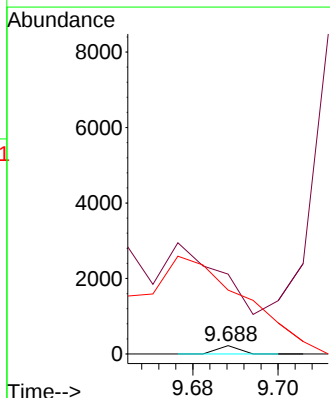
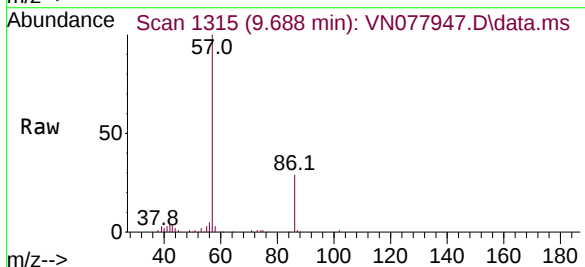
Tgt Ion: 88 Resp: 79

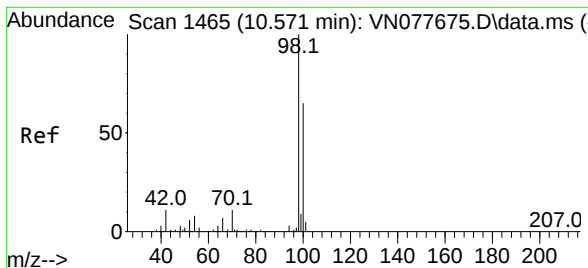
Ion Ratio Lower Upper

88 100

43 0.0 17.0 25.6#

58 6415.2 47.0 70.4#





#50

Toluene-d8

Concen: 50.898 ug/l

RT: 10.576 min Scan# 1466

Delta R.T. 0.005 min

Lab File: VN077947.D

Acq: 27 May 2023 01:15

Instrument :

MSVOA_N

ClientSampleId :

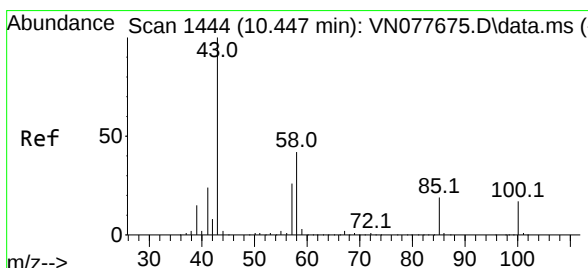
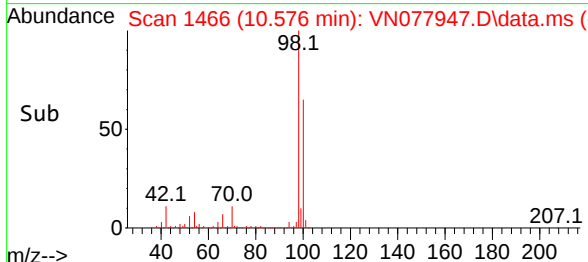
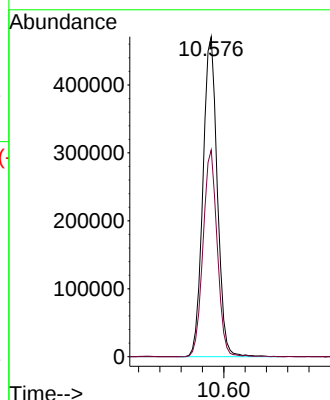
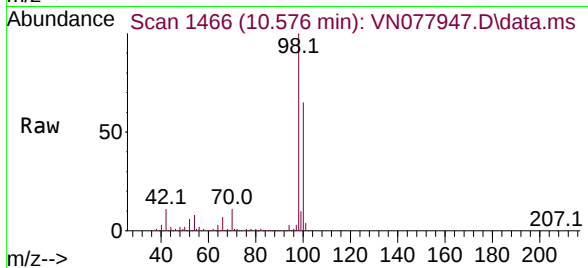
PNNL-RH-524-1

Tgt Ion: 98 Resp: 877778

Ion Ratio Lower Upper

98 100

100 63.8 52.0 78.0



#51

4-Methyl-2-Pentanone

Concen: 1.610 ug/l

RT: 10.453 min Scan# 1445

Delta R.T. 0.006 min

Lab File: VN077947.D

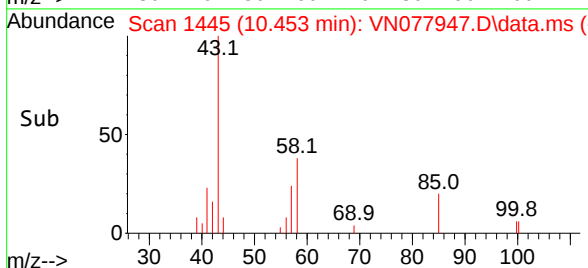
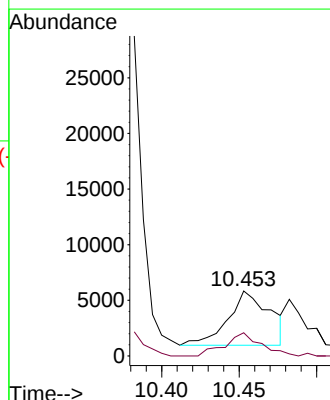
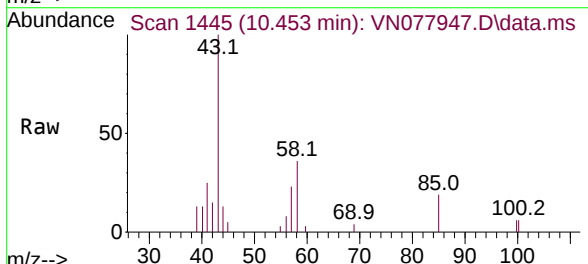
Acq: 27 May 2023 01:15

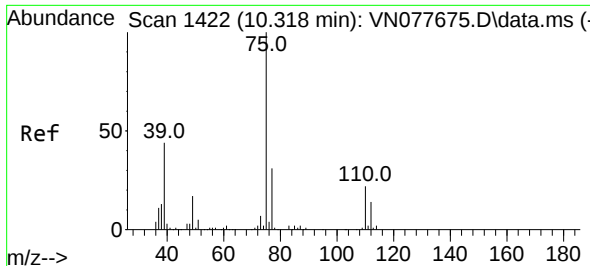
Tgt Ion: 43 Resp: 9131

Ion Ratio Lower Upper

43 100

58 36.5 36.6 54.8#

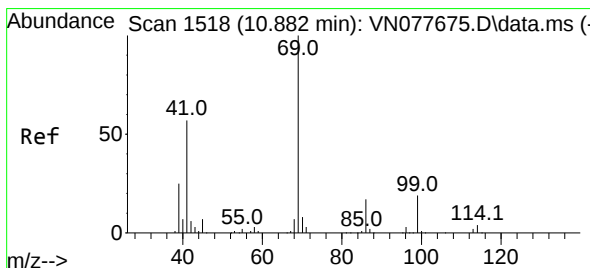
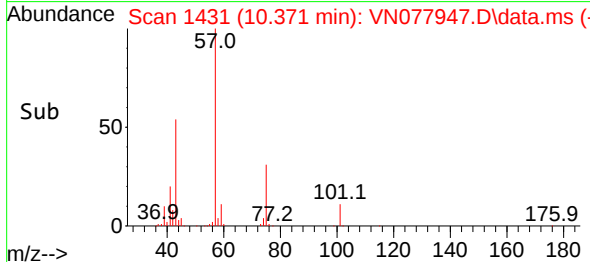
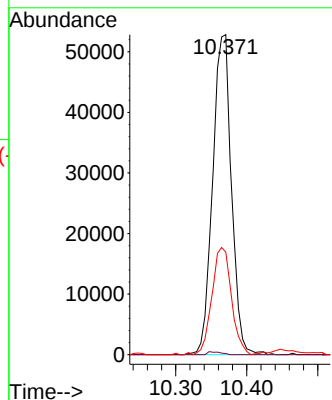
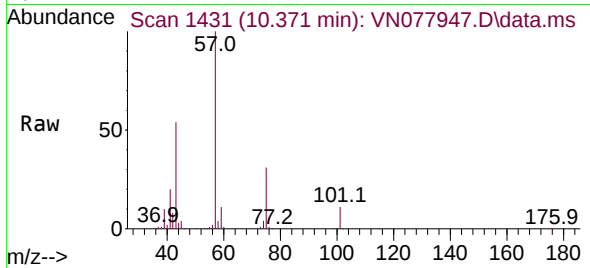




#54
cis-1,3-Dichloropropene
Concen: 12.291 ug/l
RT: 10.371 min Scan# 14
Delta R.T. 0.053 min
Lab File: VN077947.D
Acq: 27 May 2023 01:15

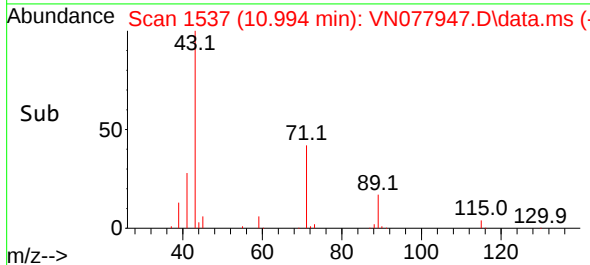
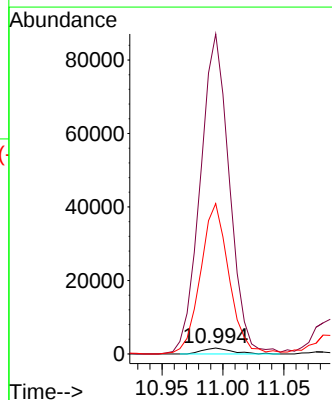
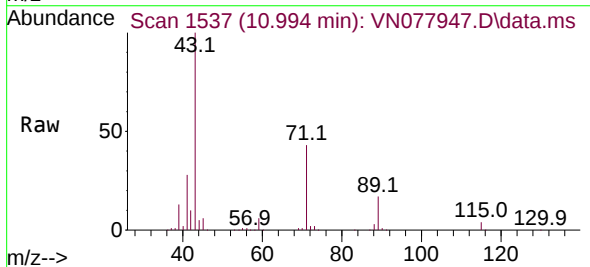
Instrument :
MSVOA_N
ClientSampleId :
PNNL-RH-524-1

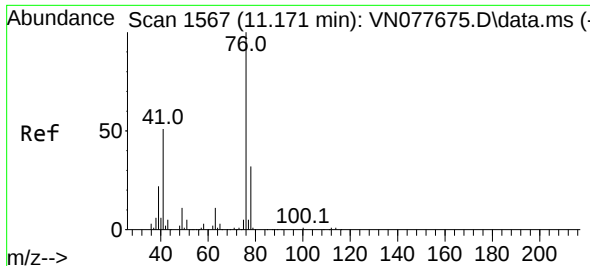
Tgt Ion: 75 Resp: 96933
Ion Ratio Lower Upper
75 100
77 0.4 26.1 39.1#
39 32.0 31.6 47.4



#56
Ethyl methacrylate
Concen: 0.373 ug/l
RT: 10.994 min Scan# 1537
Delta R.T. 0.112 min
Lab File: VN077947.D
Acq: 27 May 2023 01:15

Tgt Ion: 69 Resp: 2698
Ion Ratio Lower Upper
69 100
41 5381.6 39.6 59.4#
39 2483.5 28.6 43.0#





#57

1,3-Dichloropropane

Concen: 1.501 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.035 min

Lab File: VN077947.D

Acq: 27 May 2023 01:15

Instrument :

MSVOA_N

ClientSampleId :

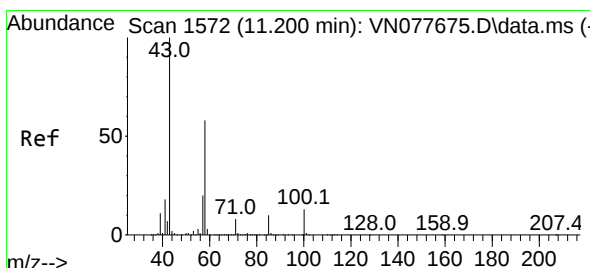
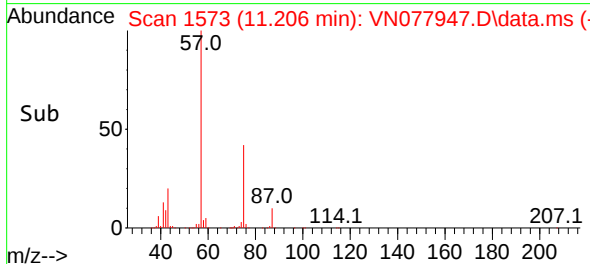
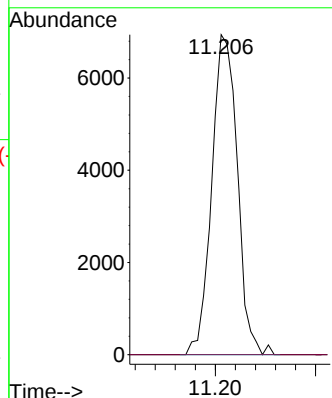
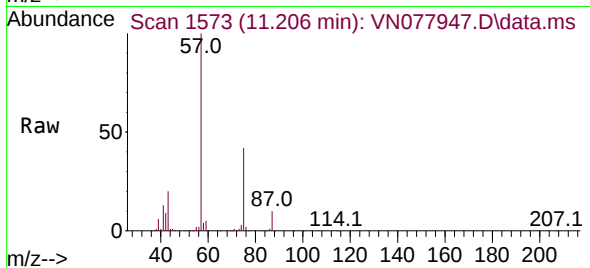
PNNL-RH-524-1

Tgt Ion: 76 Resp: 12298

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 50.205 ug/l

RT: 11.176 min Scan# 1568

Delta R.T. -0.024 min

Lab File: VN077947.D

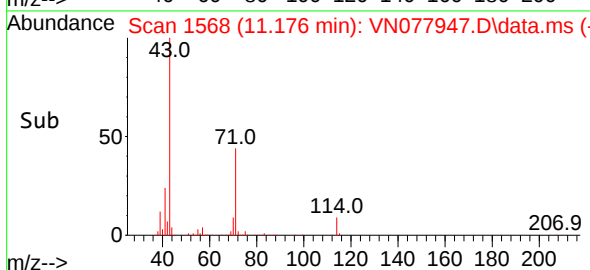
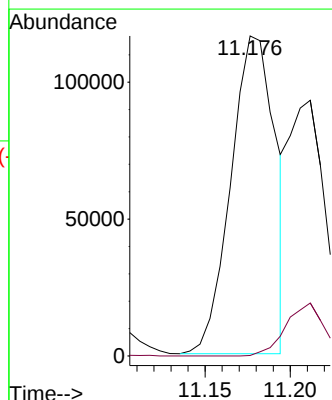
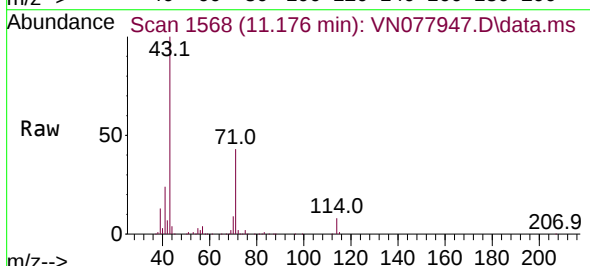
Acq: 27 May 2023 01:15

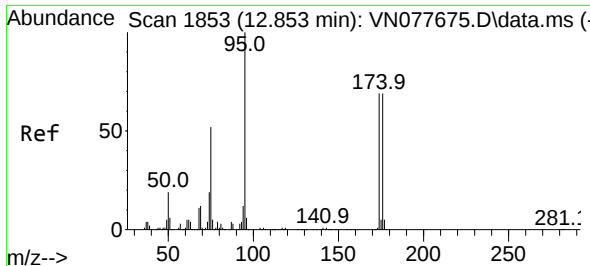
Tgt Ion: 43 Resp: 210600

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

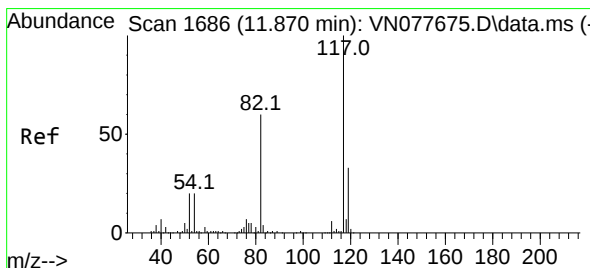
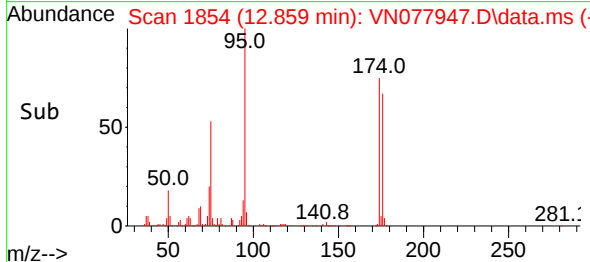
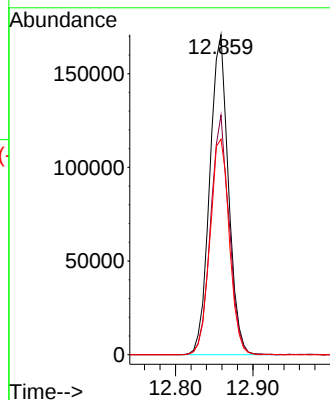
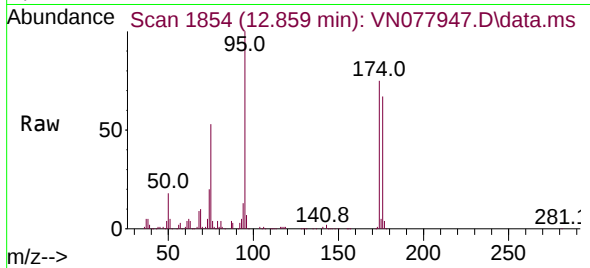




#62
4-Bromofluorobenzene
Concen: 46.909 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.006 min
Lab File: VN077947.D
Acq: 27 May 2023 01:15

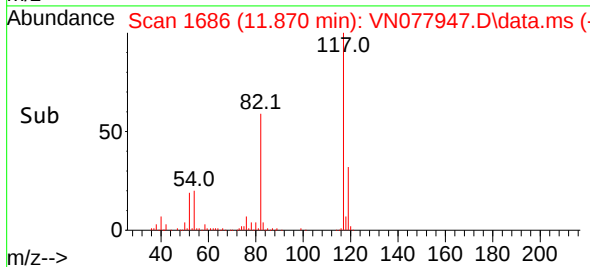
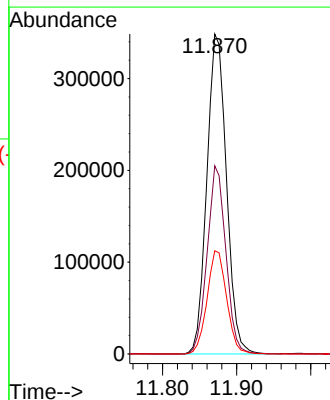
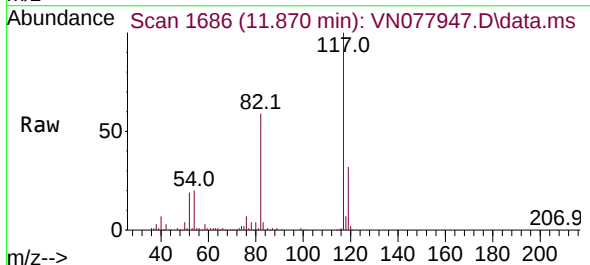
Instrument :
MSVOA_N
ClientSampleId :
PNNL-RH-524-1

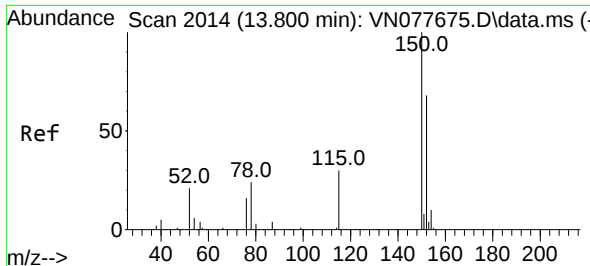
Tgt Ion: 95 Resp: 285713
Ion Ratio Lower Upper
95 100
174 74.2 0.0 143.8
176 69.8 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN077947.D
Acq: 27 May 2023 01:15

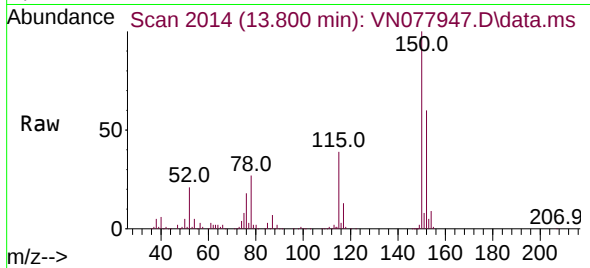
Tgt Ion: 117 Resp: 641093
Ion Ratio Lower Upper
117 100
82 58.8 44.0 66.0
119 32.2 25.6 38.4



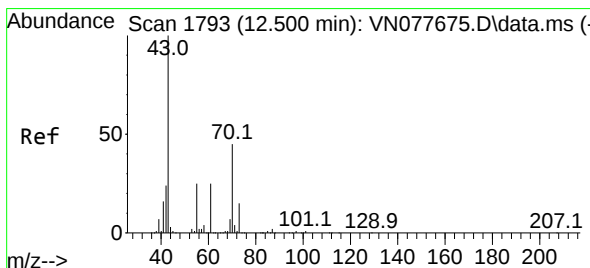
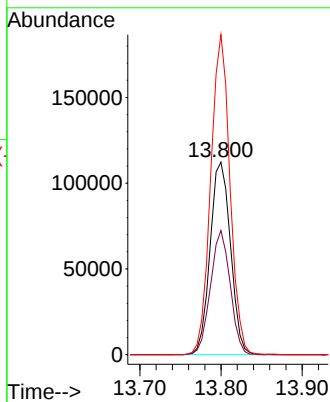
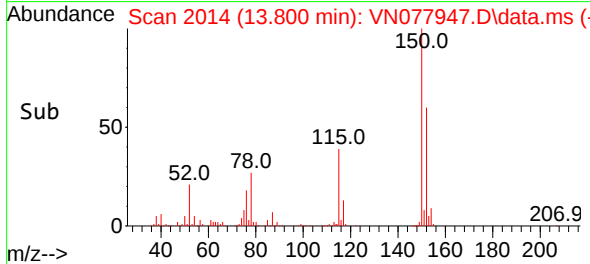


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. -0.000 min
Lab File: VN077947.D
Acq: 27 May 2023 01:15

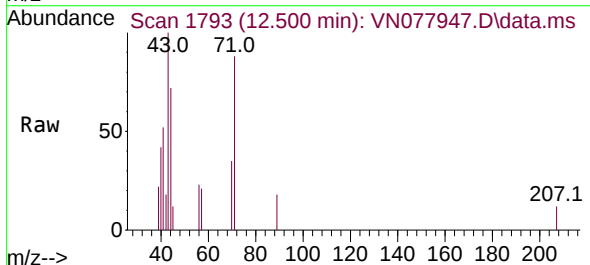
Instrument :
MSVOA_N
ClientSampleId :
PNNL-RH-524-1



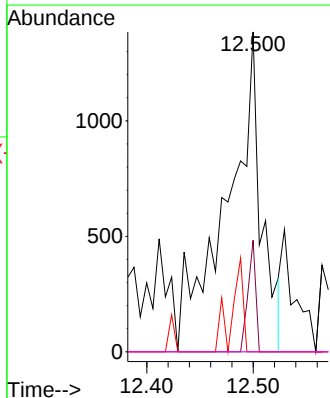
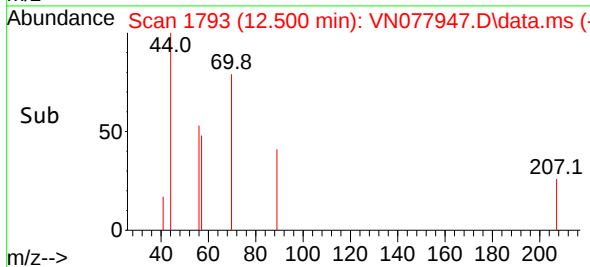
Tgt Ion:152 Resp: 196066
Ion Ratio Lower Upper
152 100
115 62.3 32.3 96.8
150 156.6 0.0 355.8

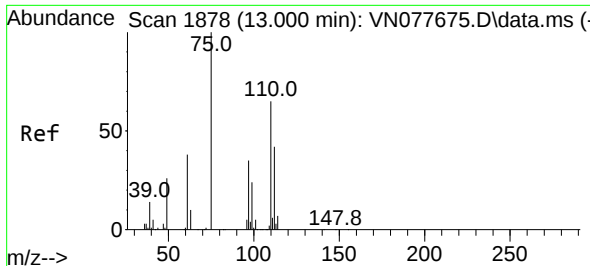


#74
N-ethyl acetate
Concen: 0.495 ug/l
RT: 12.500 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VN077947.D
Acq: 27 May 2023 01:15



Tgt Ion: 43 Resp: 3090
Ion Ratio Lower Upper
43 100
70 7.9 43.4 65.2#
55 9.9 21.4 32.0#
61 0.0 22.8 34.2#

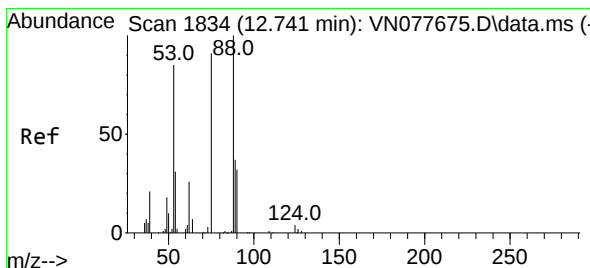
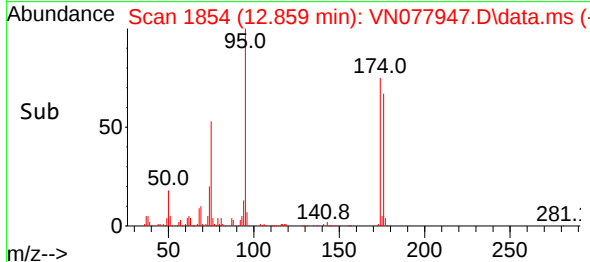
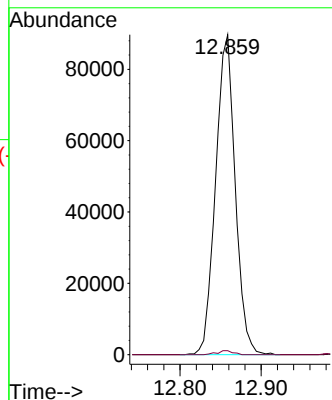
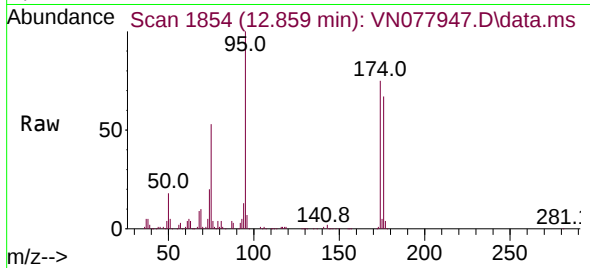




#76
1,2,3-Trichloropropane
Concen: 30.641 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. -0.141 min
Lab File: VN077947.D
Acq: 27 May 2023 01:15

Instrument :
MSVOA_N
ClientSampleId :
PNNL-RH-524-1

Tgt Ion: 75 Resp: 150452
Ion Ratio Lower Upper
75 100
77 1.0 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 97.944 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.118 min
Lab File: VN077947.D
Acq: 27 May 2023 01:15

Tgt Ion: 75 Resp: 150452
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.1 38.8 58.2#

