

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022423\
 Data File : VN076805.D
 Acq On : 24 Feb 2023 13:26
 Operator : JC\MD
 Sample : 01654-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 UGT

Quant Time: Feb 25 01:44:16 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021323W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 14 01:44:47 2023
 Response via : Initial Calibration

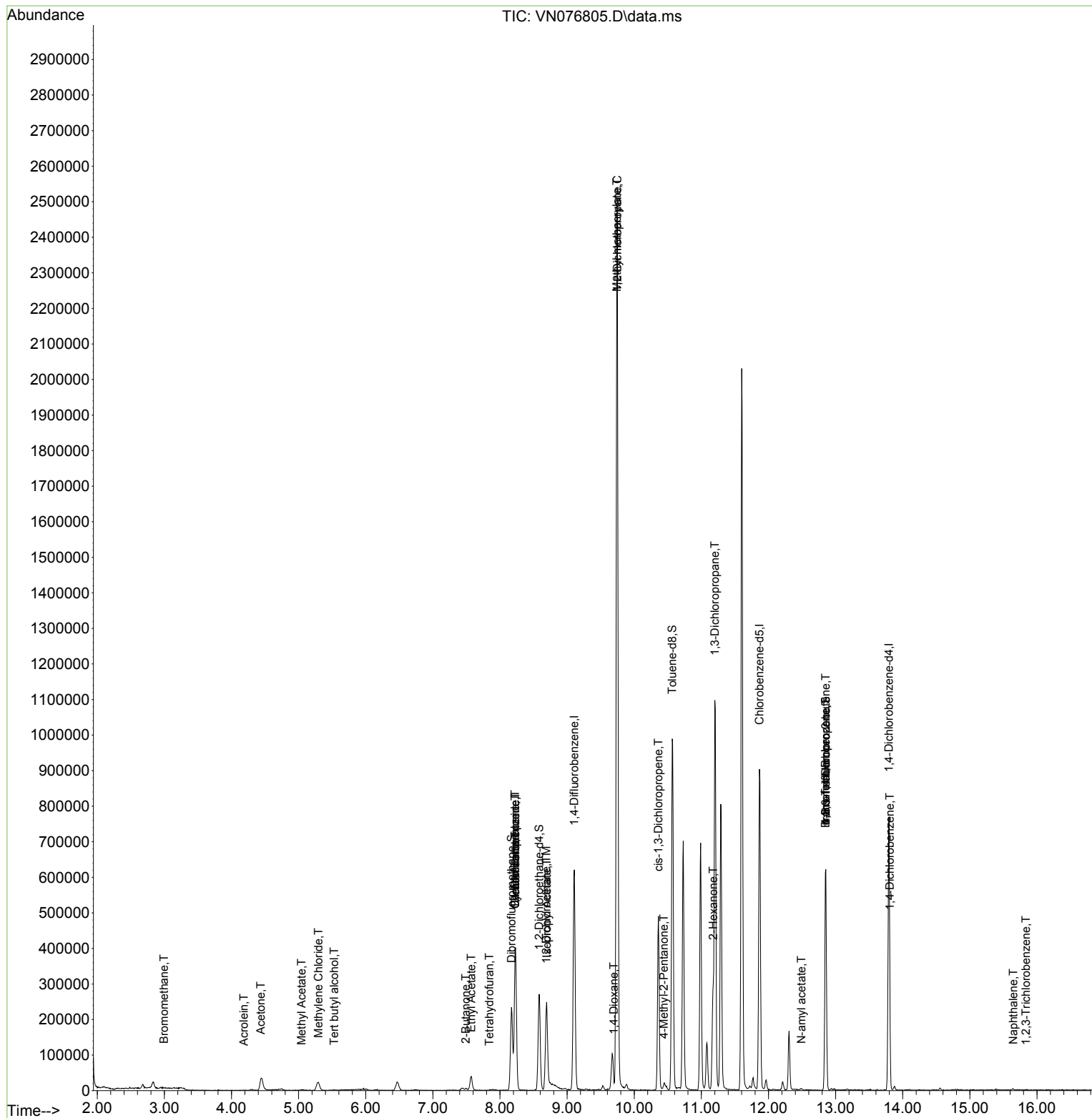
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.231	168	291806	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	520534	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	507292	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	183890	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	210025	52.123	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 104.240%	
35) Dibromofluoromethane	8.172	113	156722	45.975	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 91.940%	
50) Toluene-d8	10.566	98	663927	52.152	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 104.300%	
62) 4-Bromofluorobenzene	12.854	95	205805	48.810	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 97.620%	
Target Compounds						Qvalue
5) Bromomethane	2.996	94	1238	0.514	ug/l	86
11) Tert butyl alcohol	5.531	59	1671	3.142	ug/l #	83
13) Acrolein	4.184	56	292	0.366	ug/l	100
16) Acetone	4.437	43	69889	38.830	ug/l #	81
18) Methyl Acetate	5.043	43	2652	0.451	ug/l #	70
20) Methylene Chloride	5.295	84	17011	4.510	ug/l	88
25) 2-Butanone	7.489	43	7972	3.003	ug/l #	85
29) Tetrahydrofuran	7.842	42	769	0.443	ug/l #	50
31) Cyclohexane	8.225	56	8124	1.285	ug/l #	20
36) 1,1-Dichloropropene	8.225	75	25382	5.153	ug/l #	48
37) Ethyl Acetate	7.572	43	58663	11.320	ug/l	97
38) Carbon Tetrachloride	8.225	117	30725	6.184	ug/l #	18
42) 1,2-Dichloroethane	8.689	62	1736	0.329	ug/l #	74
43) Isopropyl Acetate	8.695	43	296674	35.183	ug/l #	85
45) 1,2-Dichloropropane	9.748	63	3163	0.790	ug/l #	44
48) Methyl methacrylate	9.742	41	230489	57.603	ug/l #	44
49) 1,4-Dioxane	9.695	88	56	0.809	ug/l #	23
51) 4-Methyl-2-Pentanone	10.442	43	20998	3.914	ug/l #	78
54) cis-1,3-Dichloropropene	10.360	75	81051	14.186	ug/l #	63
57) 1,3-Dichloropropane	11.201	76	11127	1.744	ug/l #	42
59) 2-Hexanone	11.177	43	220885	57.100	ug/l #	27
71) Bromoform	12.848	173	2177	0.760	ug/l #	1
74) N-amyl acetate	12.489	43	2614	0.430	ug/l #	53
76) 1,2,3-Trichloropropane	12.854	75	113125	30.428	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	113125	88.625	ug/l #	4
88) 1,4-Dichlorobenzene	13.807	146	1565	0.247	ug/l #	1
95) Naphthalene	15.648	128	3304	0.335	ug/l #	84
96) 1,2,3-Trichlorobenzene	15.836	180	754	0.239	ug/l #	58

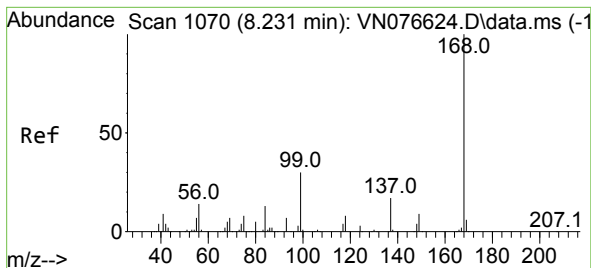
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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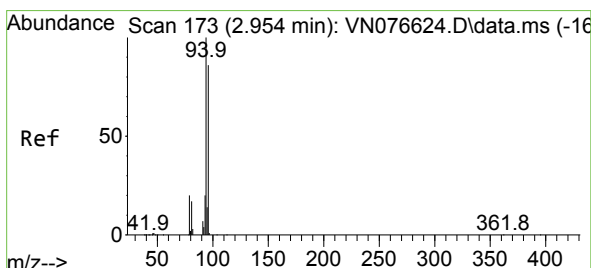
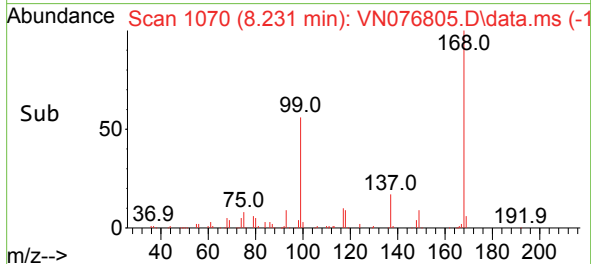
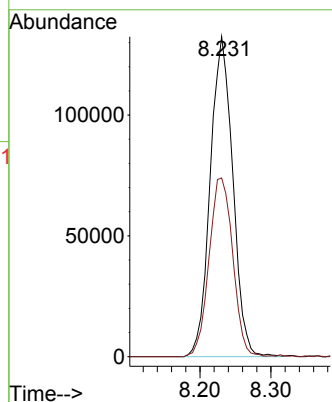
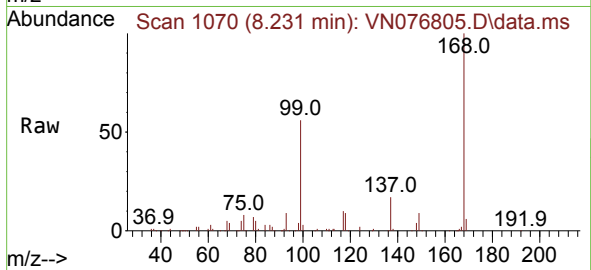




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.231 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN076805.D
Acq: 24 Feb 2023 13:26

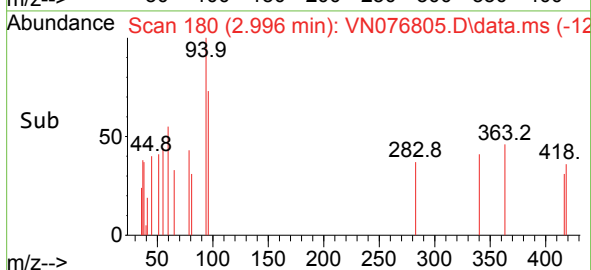
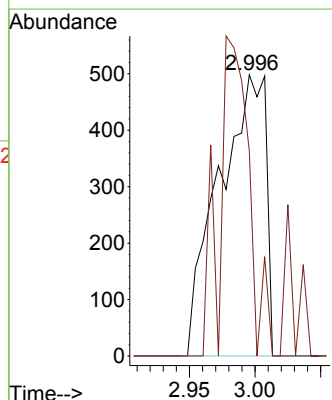
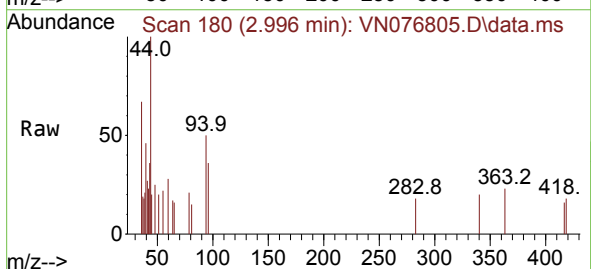
Instrument :
MSVOA_N
ClientSampleId :
UGT

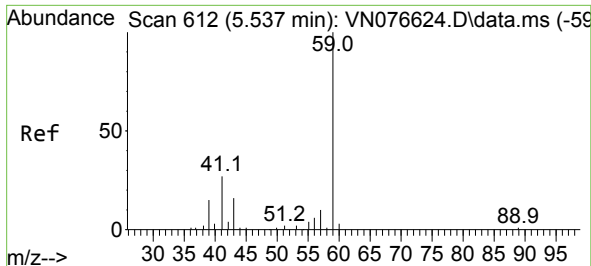
Tgt Ion:168 Resp: 291806
Ion Ratio Lower Upper
168 100
99 55.8 44.8 67.2



#5
Bromomethane
Concen: 0.514 ug/l
RT: 2.996 min Scan# 180
Delta R.T. 0.042 min
Lab File: VN076805.D
Acq: 24 Feb 2023 13:26

Tgt Ion: 94 Resp: 1238
Ion Ratio Lower Upper
94 100
96 72.9 69.0 103.4

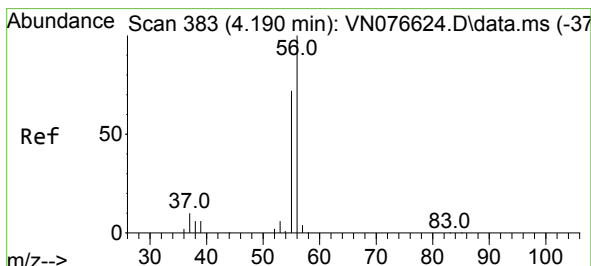
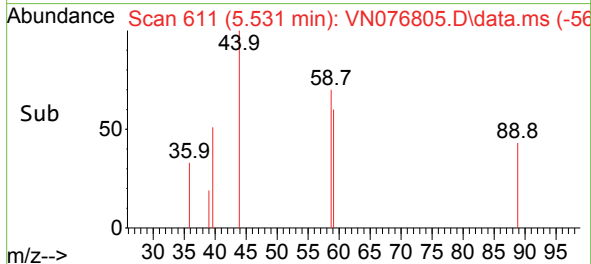
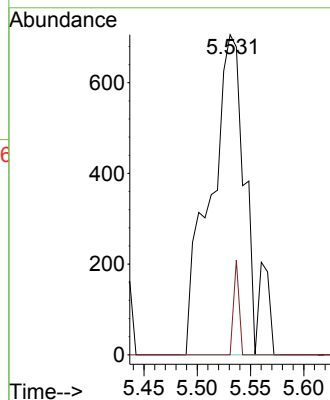
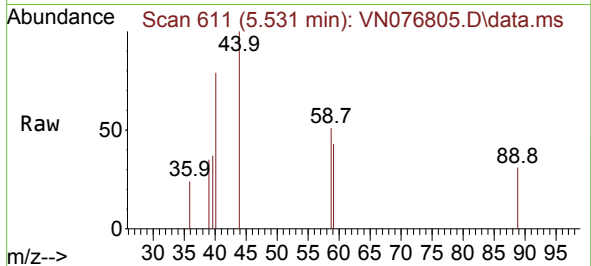




#11
Tert butyl alcohol
Concen: 3.142 ug/l
RT: 5.531 min Scan# 611
Delta R.T. -0.006 min
Lab File: VN076805.D
Acq: 24 Feb 2023 13:26

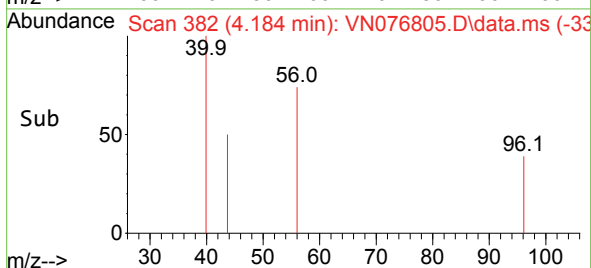
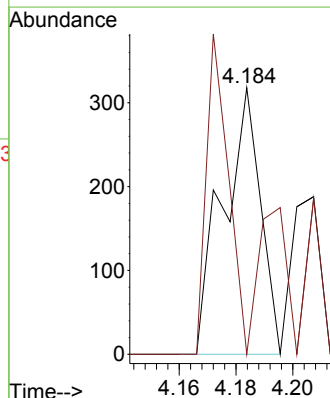
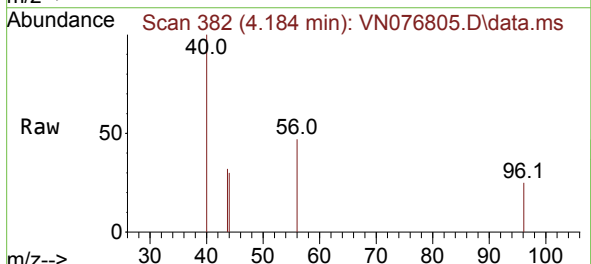
Instrument :
MSVOA_N
ClientSampleId :
UGT

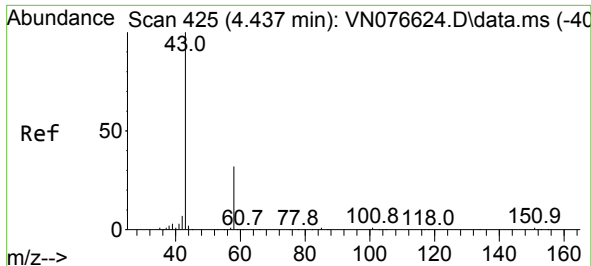
Tgt Ion: 59 Resp: 1671
Ion Ratio Lower Upper
59 100
57 4.4 8.7 13.1#



#13
Acrolein
Concen: 0.366 ug/l
RT: 4.184 min Scan# 382
Delta R.T. -0.006 min
Lab File: VN076805.D
Acq: 24 Feb 2023 13:26

Tgt Ion: 56 Resp: 292
Ion Ratio Lower Upper
56 100
55 70.2 56.3 84.5

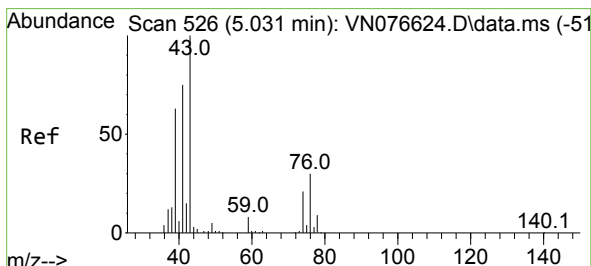
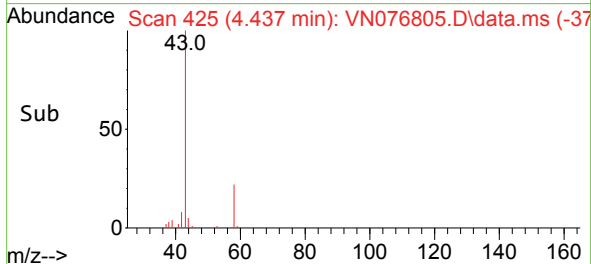
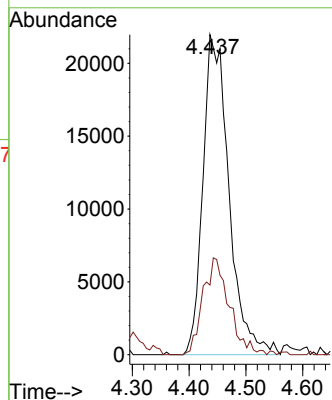
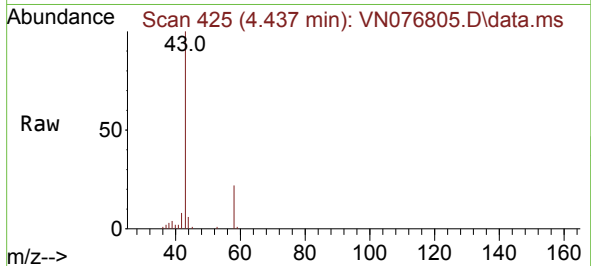




#16
Acetone
Concen: 38.830 ug/l
RT: 4.437 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN076805.D
Acq: 24 Feb 2023 13:26

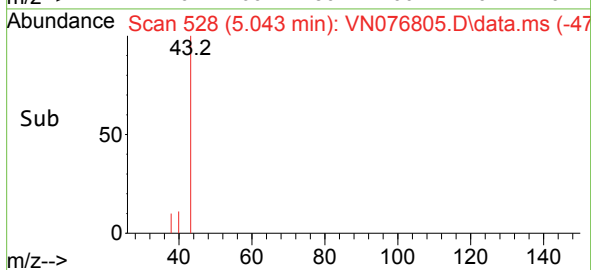
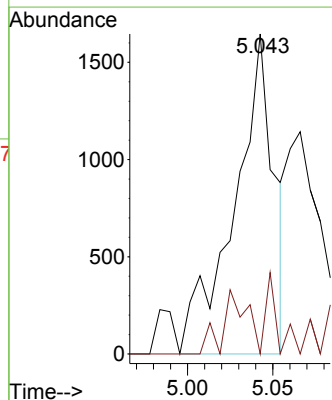
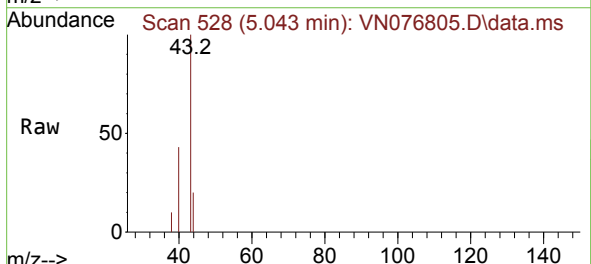
Instrument :
MSVOA_N
ClientSampleId :
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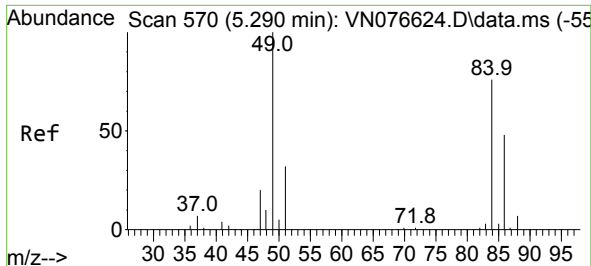
Tgt Ion: 43 Resp: 69889
Ion Ratio Lower Upper
43 100
58 21.8 25.9 38.9#



#18
Methyl Acetate
Concen: 0.451 ug/l
RT: 5.043 min Scan# 528
Delta R.T. 0.012 min
Lab File: VN076805.D
Acq: 24 Feb 2023 13:26

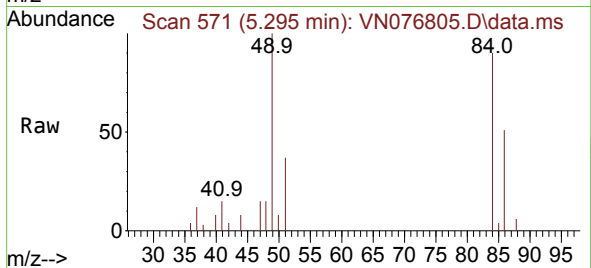
Tgt Ion: 43 Resp: 2652
Ion Ratio Lower Upper
43 100
74 7.6 17.7 26.5#



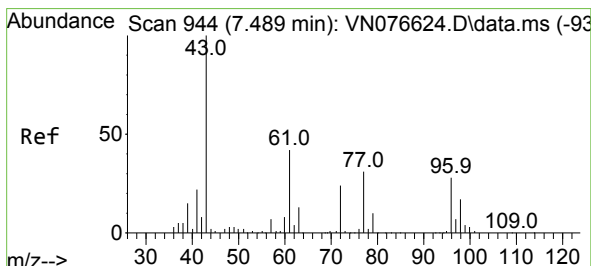
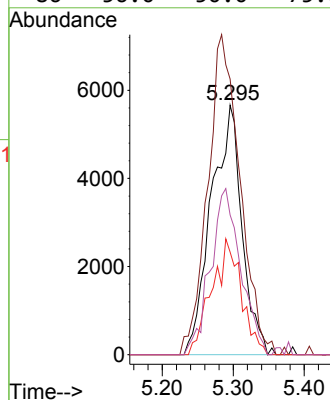
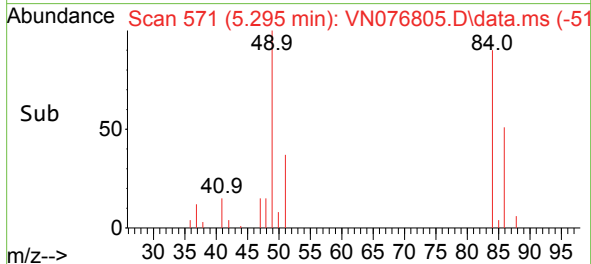


#20
Methylene Chloride
Concen: 4.510 ug/l
RT: 5.295 min Scan# 51
Delta R.T. 0.005 min
Lab File: VN076805.D
Acq: 24 Feb 2023 13:26

Instrument :
MSVOA_N
ClientSampleId :
UGT

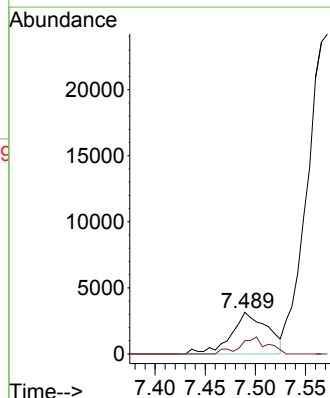
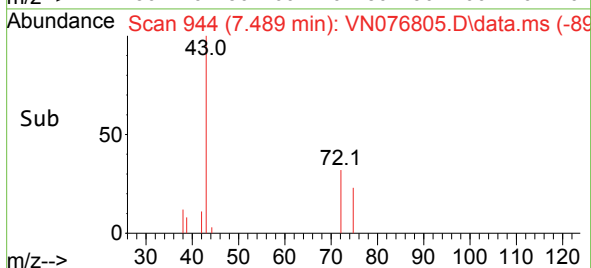
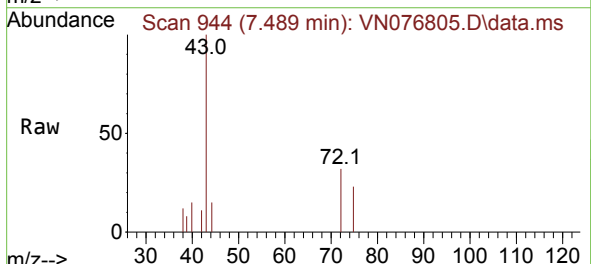


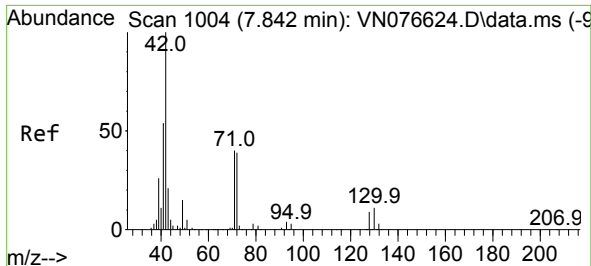
Tgt Ion:	84	Resp:	17011
Ion	Ratio	Lower	Upper
84	100		
49	110.5	104.9	157.3
51	41.1	33.8	50.8
86	56.0	50.0	75.0



#25
2-Butanone
Concen: 3.003 ug/l
RT: 7.489 min Scan# 944
Delta R.T. 0.000 min
Lab File: VN076805.D
Acq: 24 Feb 2023 13:26

Tgt Ion:	43	Resp:	7972
Ion	Ratio	Lower	Upper
43	100		
72	31.9	19.4	29.2#





#29

Tetrahydrofuran

Concen: 0.443 ug/l

RT: 7.842 min Scan# 1069

Delta R.T. 0.000 min

Lab File: VN076805.D

Acq: 24 Feb 2023 13:26

Instrument :

MSVOA_N

ClientSampleId :

UGT

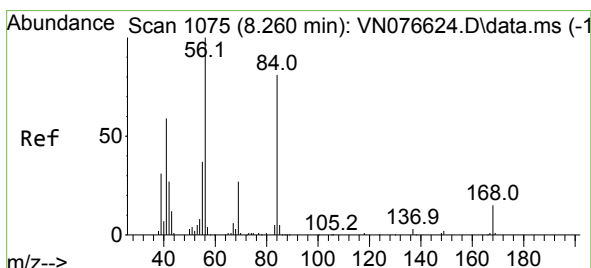
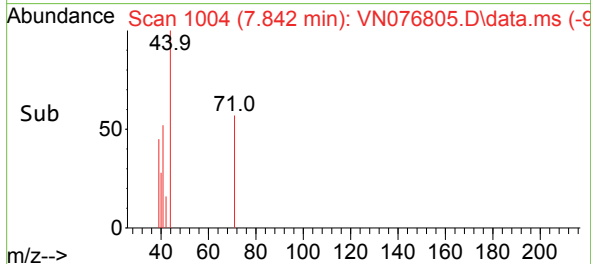
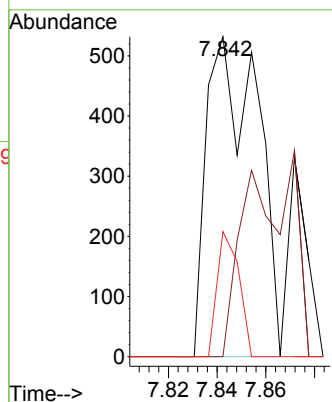
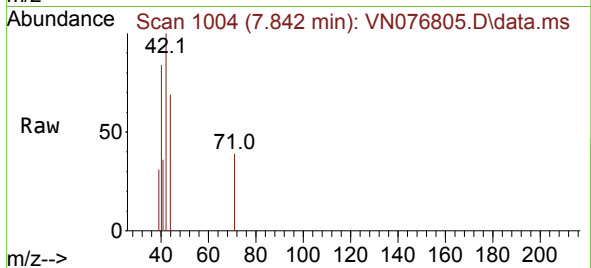
Tgt Ion: 42 Resp: 769

Ion Ratio Lower Upper

42 100

72 0.0 31.5 47.3#

71 16.8 29.8 44.8#



#31

Cyclohexane

Concen: 1.285 ug/l

RT: 8.225 min Scan# 1069

Delta R.T. -0.035 min

Lab File: VN076805.D

Acq: 24 Feb 2023 13:26

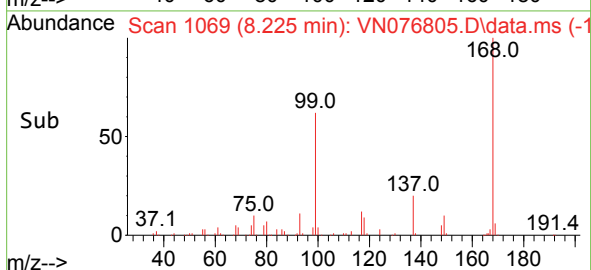
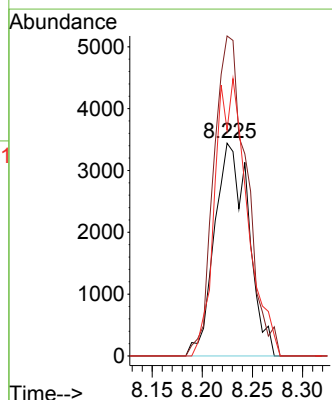
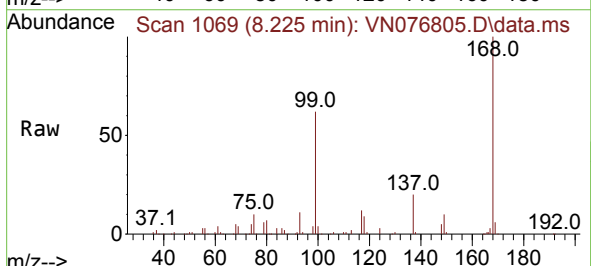
Tgt Ion: 56 Resp: 8124

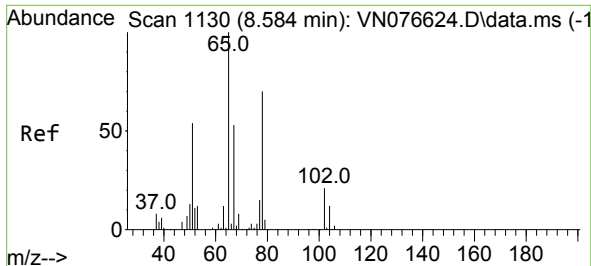
Ion Ratio Lower Upper

56 100

69 150.3 21.6 32.4#

84 106.1 65.1 97.7#





#33

1,2-Dichloroethane-d4

Concen: 52.123 ug/l

RT: 8.583 min Scan# 1130

Delta R.T. -0.001 min

Lab File: VN076805.D

Acq: 24 Feb 2023 13:26

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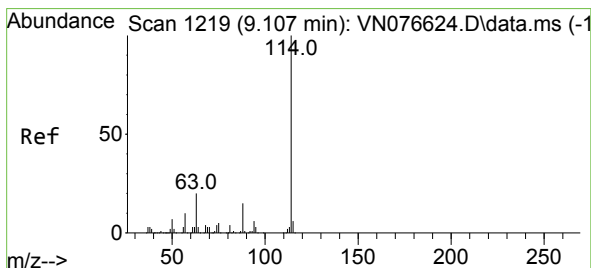
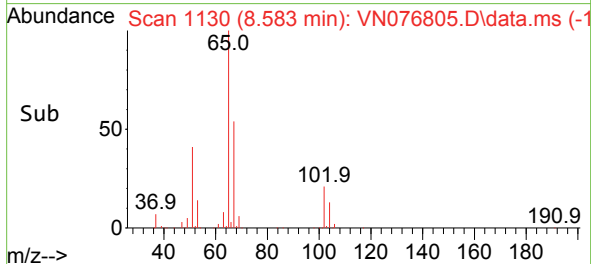
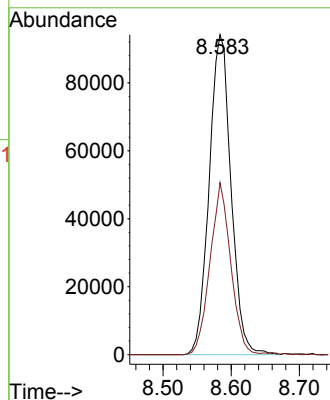
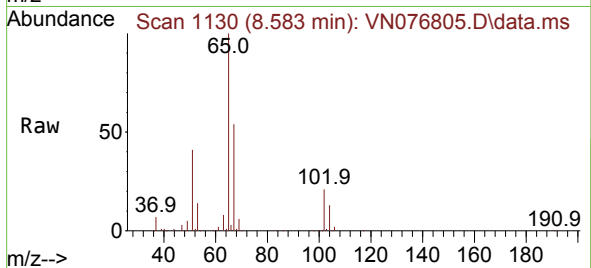
UGT

Tgt Ion: 65 Resp: 210025

Ion Ratio Lower Upper

65 100

67 50.9 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1219

Delta R.T. -0.000 min

Lab File: VN076805.D

Acq: 24 Feb 2023 13:26

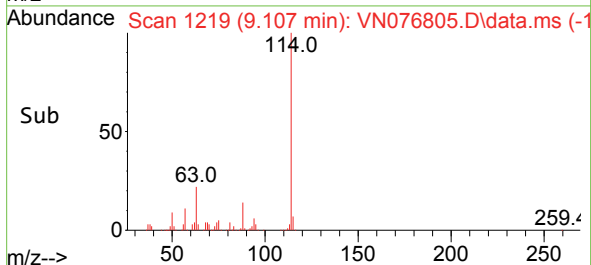
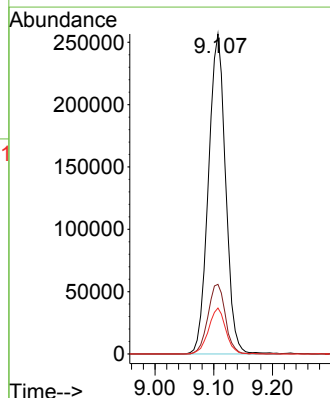
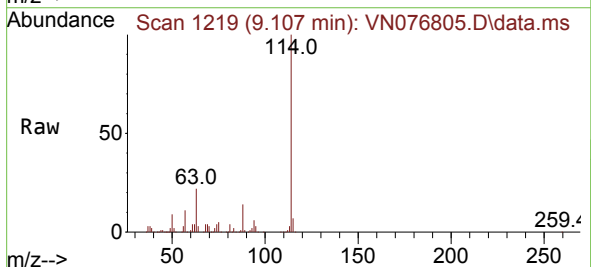
Tgt Ion: 114 Resp: 520534

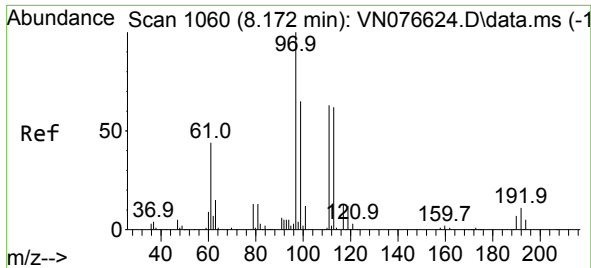
Ion Ratio Lower Upper

114 100

63 21.7 0.0 40.0

88 14.4 0.0 29.6

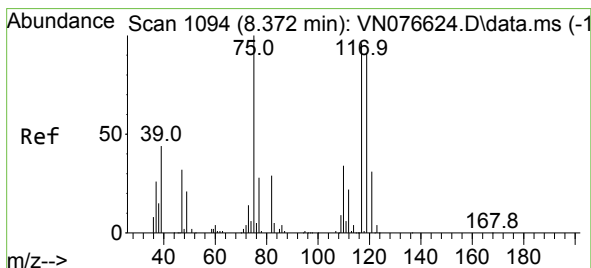
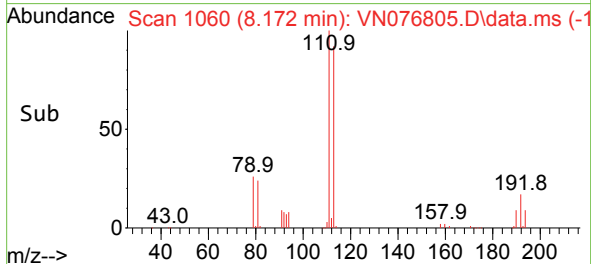
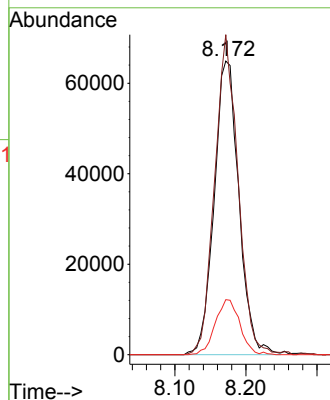
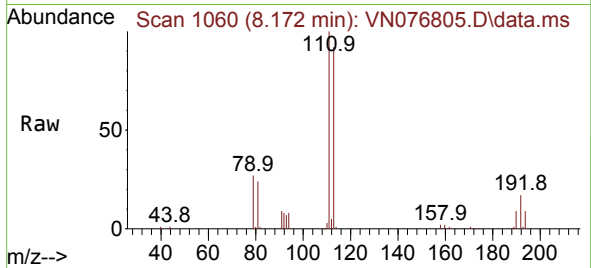




#35
Dibromofluoromethane
Concen: 45.975 ug/l
RT: 8.172 min Scan# 1060
Delta R.T. -0.000 min
Lab File: VN076805.D
Acq: 24 Feb 2023 13:26

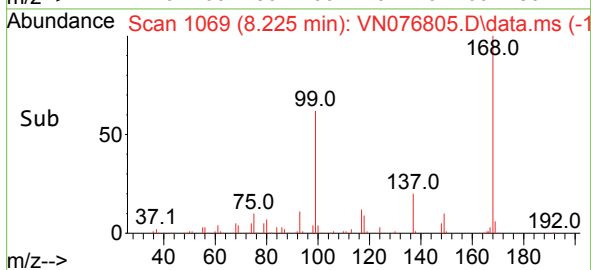
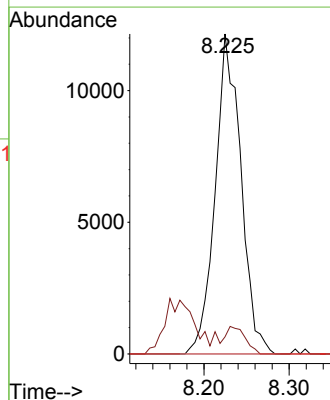
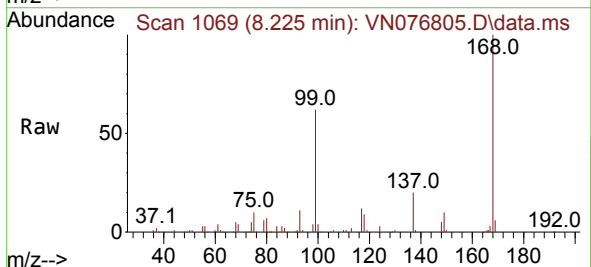
Instrument :
MSVOA_N
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UGT

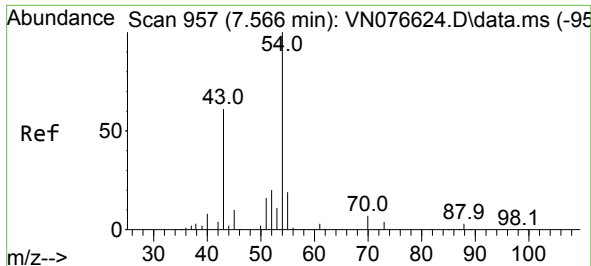
Tgt Ion:113 Resp: 156722
Ion Ratio Lower Upper
113 100
111 103.4 83.1 124.7
192 18.7 15.6 23.4



#36
1,1-Dichloropropene
Concen: 5.153 ug/l
RT: 8.225 min Scan# 1069
Delta R.T. -0.147 min
Lab File: VN076805.D
Acq: 24 Feb 2023 13:26

Tgt Ion: 75 Resp: 25382
Ion Ratio Lower Upper
75 100
110 6.5 17.5 52.5#
77 0.0 24.5 36.7#

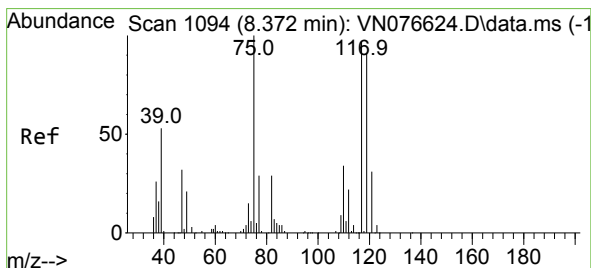
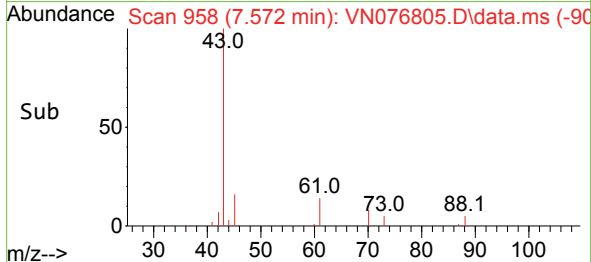
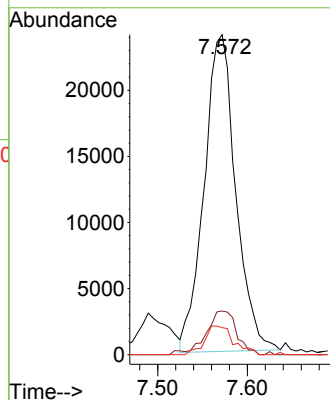
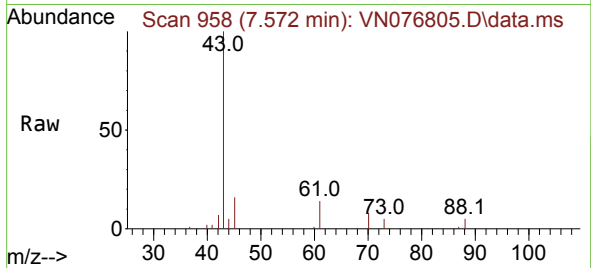




#37
Ethyl Acetate
Concen: 11.320 ug/l
RT: 7.572 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN076805.D
Acq: 24 Feb 2023 13:26

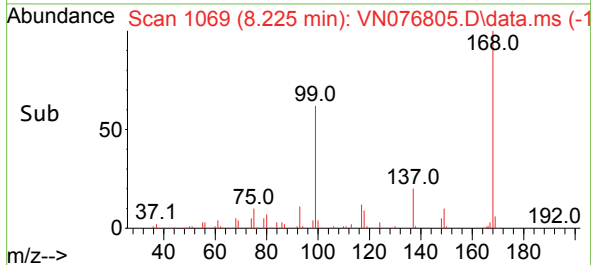
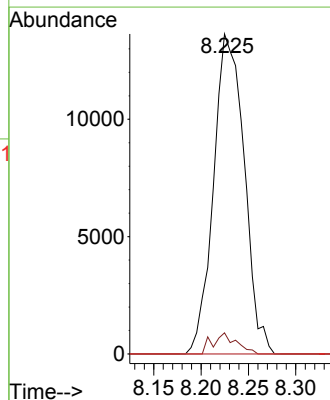
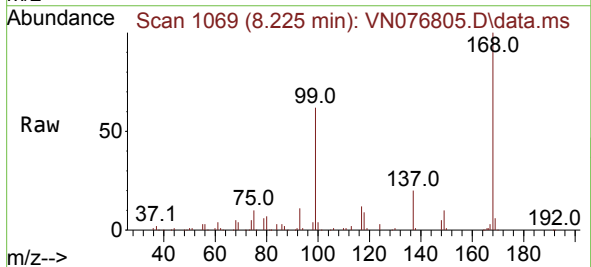
Instrument :
MSVOA_N
ClientSampleId :
UGT

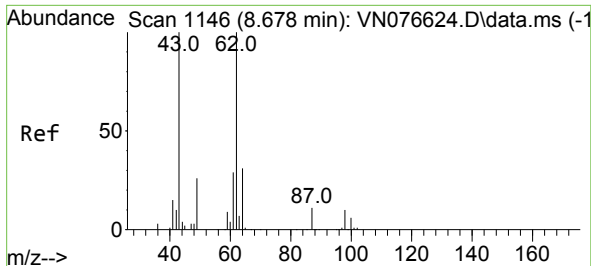
Tgt Ion: 43 Resp: 58663
Ion Ratio Lower Upper
43 100
61 13.3 9.9 14.9
70 8.3 7.8 11.6



#38
Carbon Tetrachloride
Concen: 6.184 ug/l
RT: 8.225 min Scan# 1069
Delta R.T. -0.147 min
Lab File: VN076805.D
Acq: 24 Feb 2023 13:26

Tgt Ion: 117 Resp: 30725
Ion Ratio Lower Upper
117 100
119 6.6 75.4 113.0#
121 0.0 26.0 39.0#





#42

1,2-Dichloroethane

Concen: 0.329 ug/l

RT: 8.689 min Scan# 1148

Delta R.T. 0.011 min

Lab File: VN076805.D

Acq: 24 Feb 2023 13:26

Instrument :

MSVOA_N

ClientSampleId :

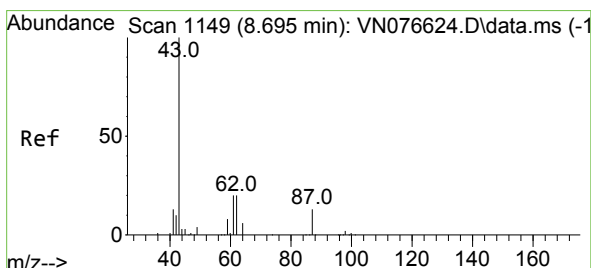
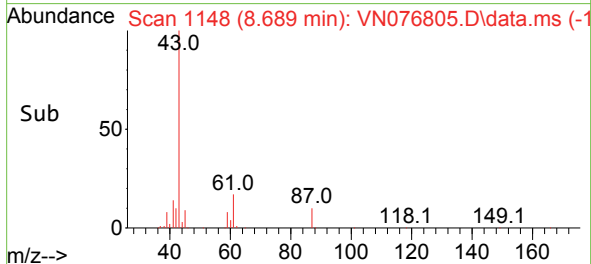
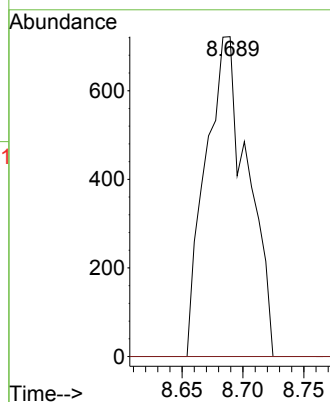
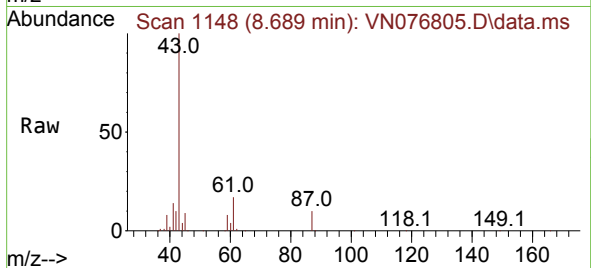
UGT

Tgt Ion: 62 Resp: 1736

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.2



#43

Isopropyl Acetate

Concen: 35.183 ug/l

RT: 8.695 min Scan# 1149

Delta R.T. 0.000 min

Lab File: VN076805.D

Acq: 24 Feb 2023 13:26

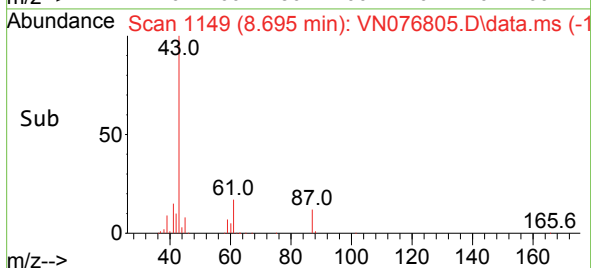
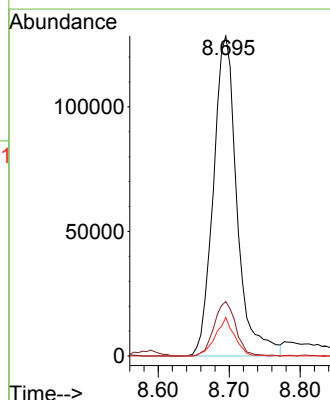
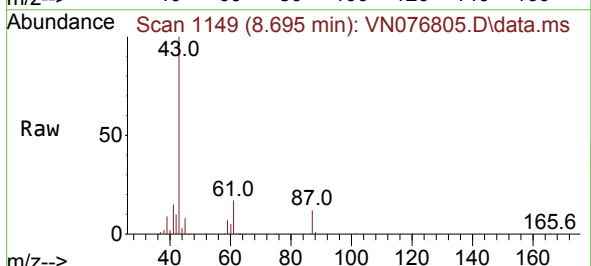
Tgt Ion: 43 Resp: 296674

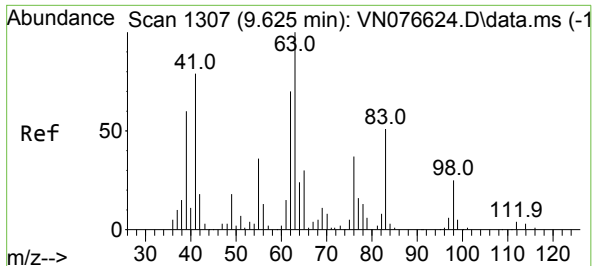
Ion Ratio Lower Upper

43 100

61 15.6 20.0 30.0#

87 9.7 9.9 14.9#





#45

1,2-Dichloropropane

Concen: 0.790 ug/l

RT: 9.748 min Scan# 11

Delta R.T. 0.123 min

Lab File: VN076805.D

Acq: 24 Feb 2023 13:26

Instrument :

MSVOA_N

ClientSampleId :

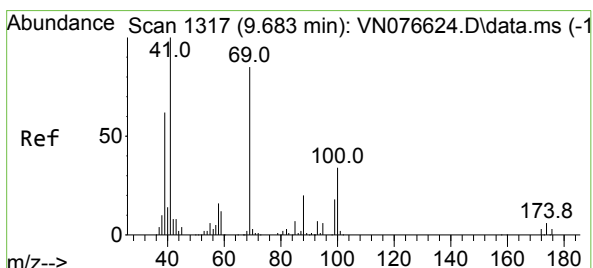
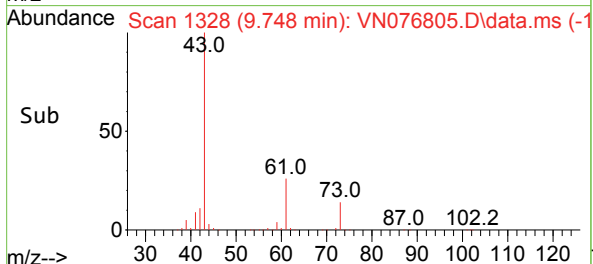
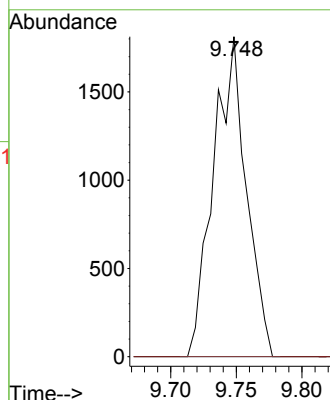
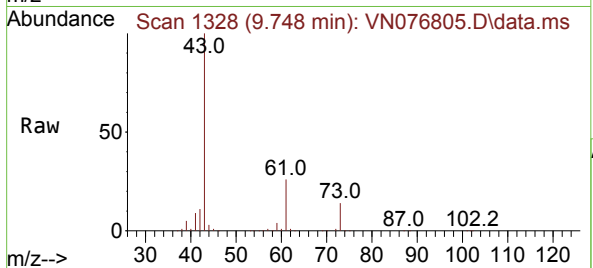
UGT

Tgt Ion: 63 Resp: 3163

Ion Ratio Lower Upper

63 100

65 0.0 24.2 36.2#



#48

Methyl methacrylate

Concen: 57.603 ug/l

RT: 9.742 min Scan# 1327

Delta R.T. 0.059 min

Lab File: VN076805.D

Acq: 24 Feb 2023 13:26

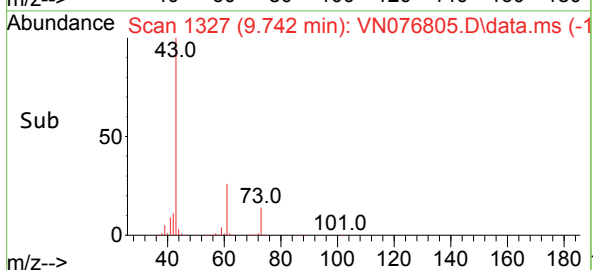
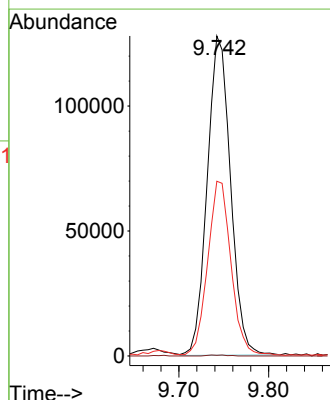
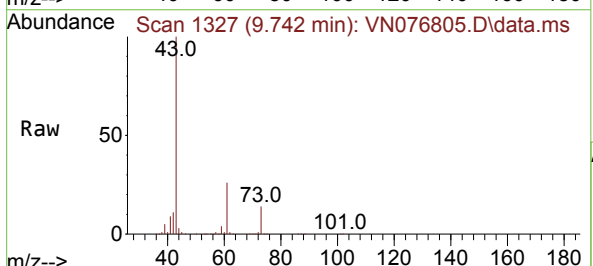
Tgt Ion: 41 Resp: 230489

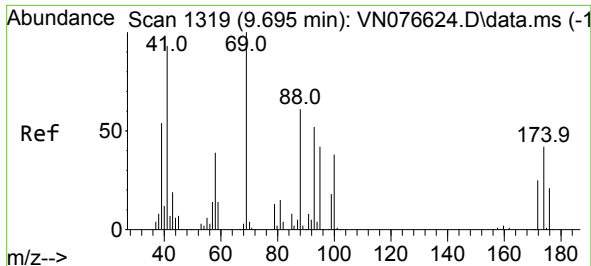
Ion Ratio Lower Upper

41 100

69 0.2 65.4 98.0#

39 54.5 49.3 73.9





#49

1,4-Dioxane

Concen: 0.809 ug/l

RT: 9.695 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN076805.D

Acq: 24 Feb 2023 13:26

Instrument :

MSVOA_N

ClientSampleId :

UGT

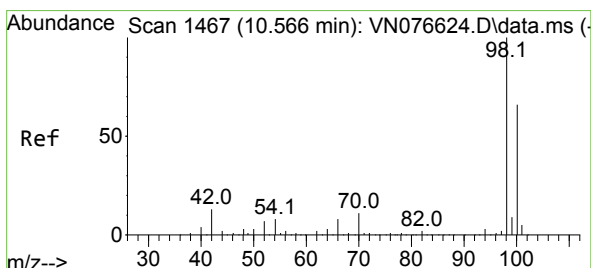
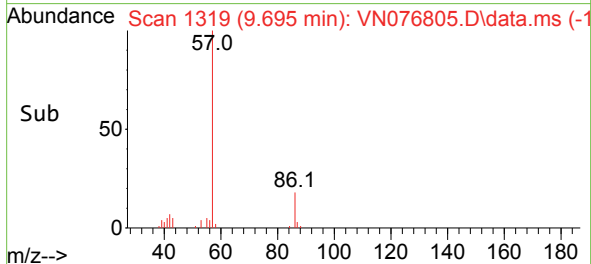
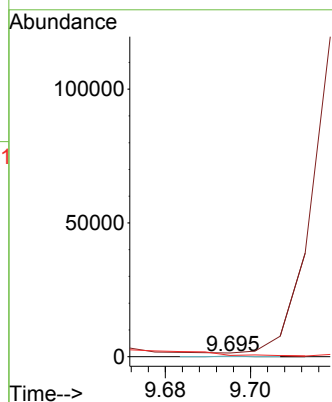
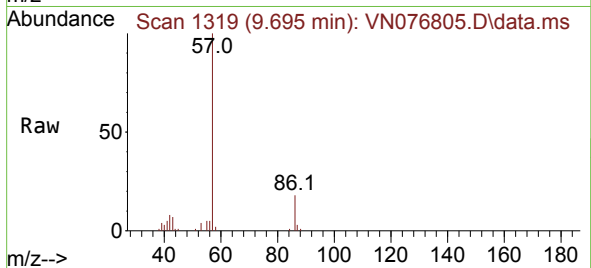
Tgt Ion: 88 Resp: 56

Ion Ratio Lower Upper

88 100

43 0.0 22.6 33.8#

58 0.0 57.6 86.4#



#50

Toluene-d8

Concen: 52.152 ug/l

RT: 10.566 min Scan# 1467

Delta R.T. -0.000 min

Lab File: VN076805.D

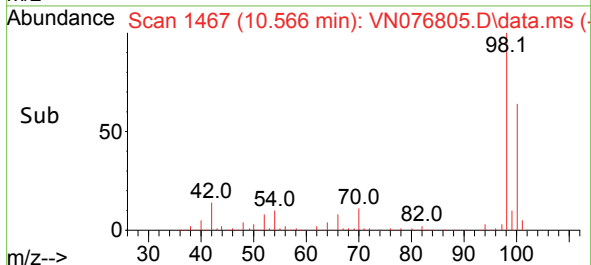
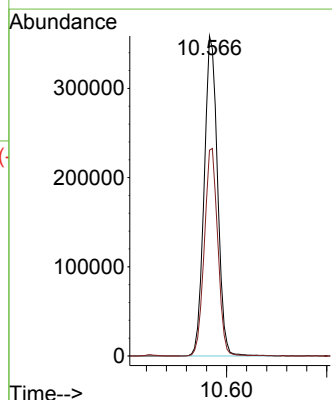
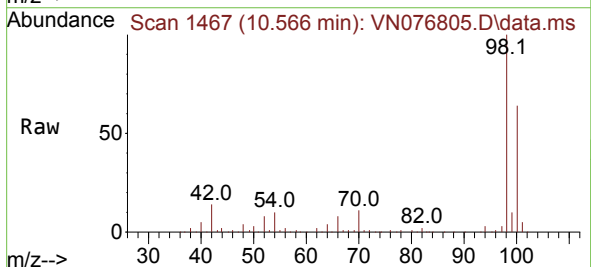
Acq: 24 Feb 2023 13:26

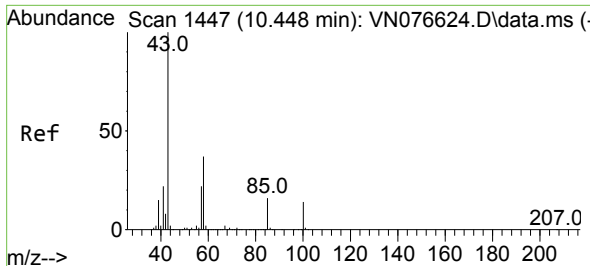
Tgt Ion: 98 Resp: 663927

Ion Ratio Lower Upper

98 100

100 65.1 52.9 79.3

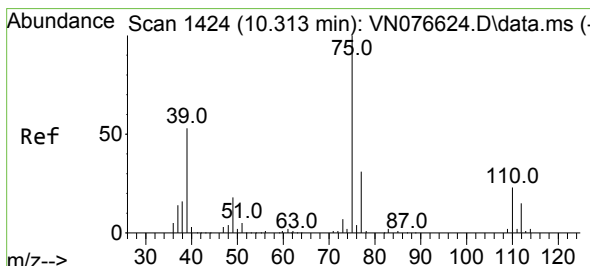
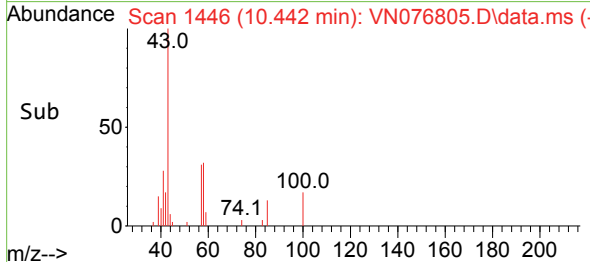
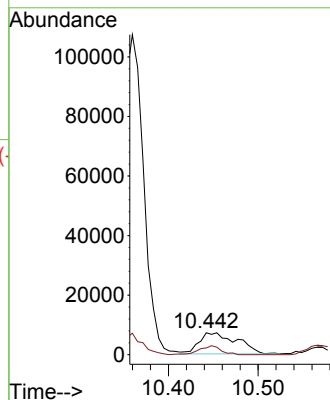
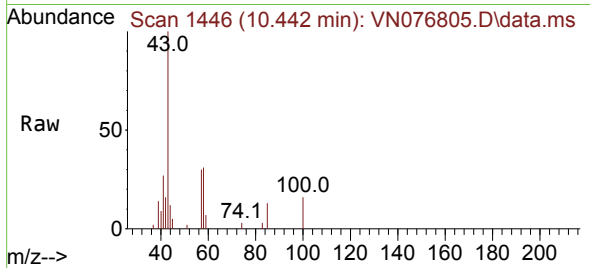




#51
4-Methyl-2-Pentanone
Concen: 3.914 ug/l
RT: 10.442 min Scan# 1446
Delta R.T. -0.006 min
Lab File: VN076805.D
Acq: 24 Feb 2023 13:26

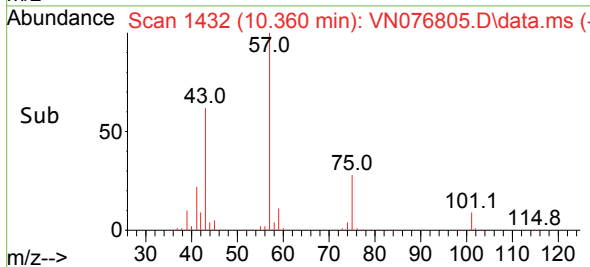
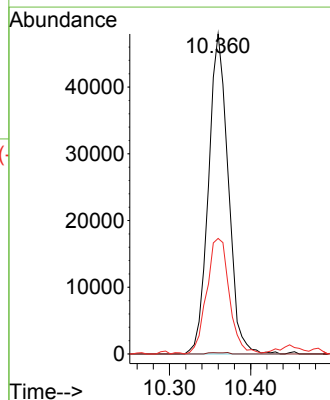
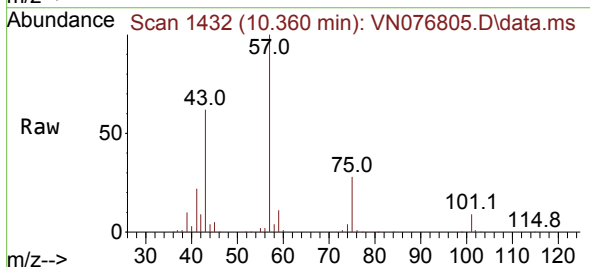
Instrument :
MSVOA_N
ClientSampleId :
UGT

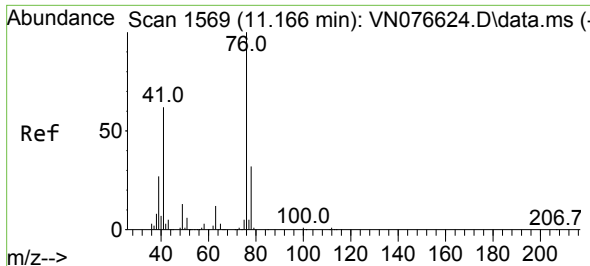
Tgt Ion: 43 Resp: 20998
Ion Ratio Lower Upper
43 100
58 24.0 29.5 44.3#



#54
cis-1,3-Dichloropropene
Concen: 14.186 ug/l
RT: 10.360 min Scan# 1432
Delta R.T. 0.047 min
Lab File: VN076805.D
Acq: 24 Feb 2023 13:26

Tgt Ion: 75 Resp: 81051
Ion Ratio Lower Upper
75 100
77 0.4 25.1 37.7#
39 35.1 42.3 63.5#





#57

1,3-Dichloropropane

Concen: 1.744 ug/l

RT: 11.201 min Scan# 11127

Delta R.T. 0.035 min

Lab File: VN076805.D

Acq: 24 Feb 2023 13:26

Instrument :

MSVOA_N

ClientSampleId :

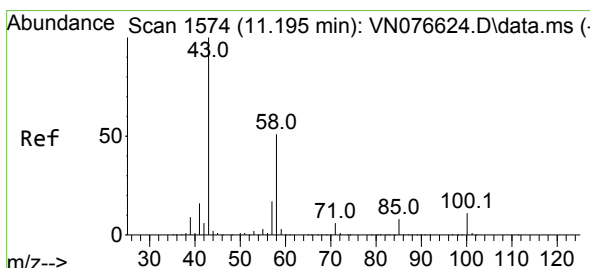
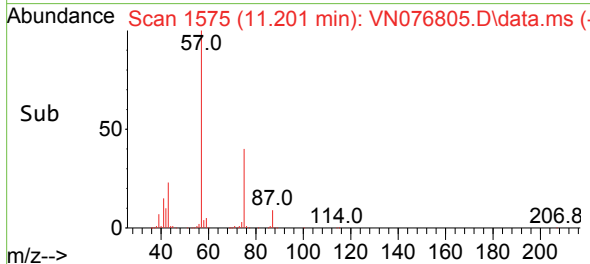
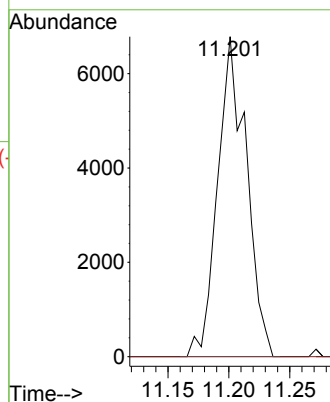
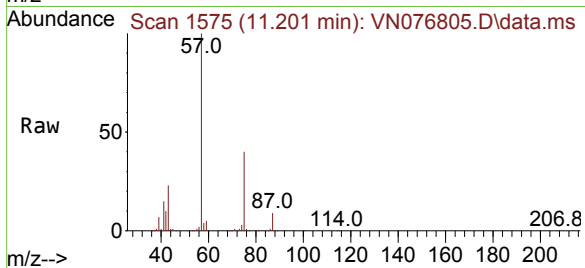
UGT

Tgt Ion: 76 Resp: 11127

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 57.100 ug/l

RT: 11.177 min Scan# 1571

Delta R.T. -0.018 min

Lab File: VN076805.D

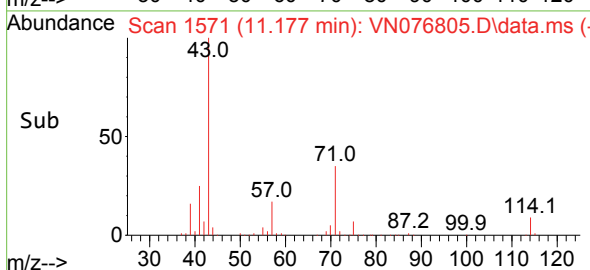
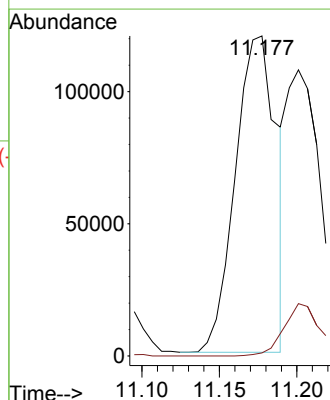
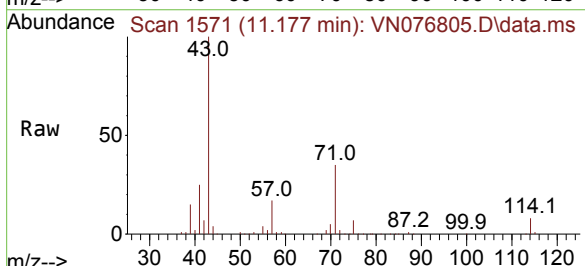
Acq: 24 Feb 2023 13:26

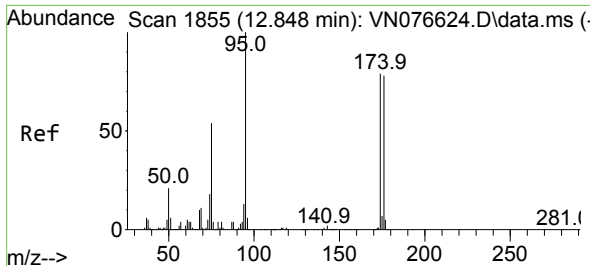
Tgt Ion: 43 Resp: 220885

Ion Ratio Lower Upper

43 100

58 0.0 25.4 76.0#

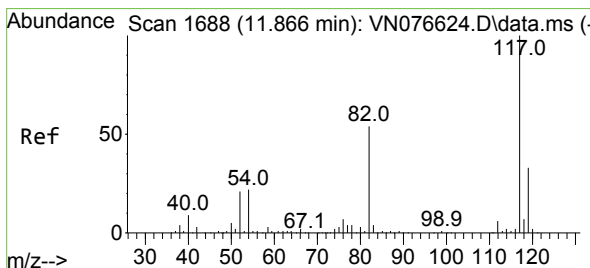
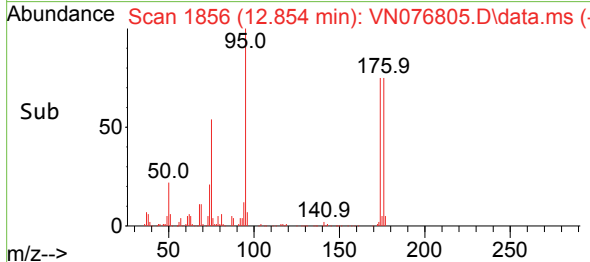
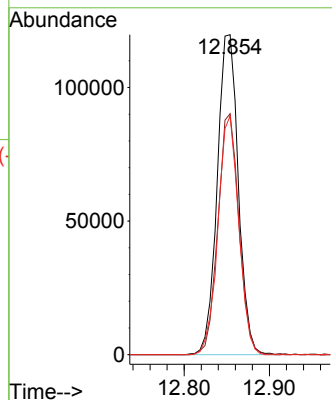
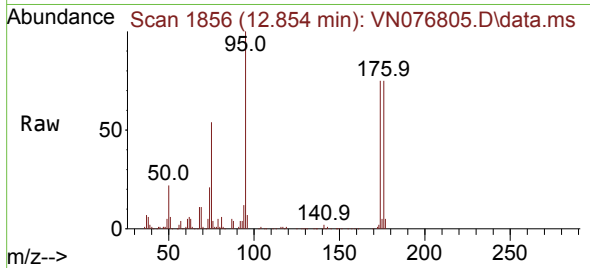




#62
4-Bromofluorobenzene
Concen: 48.810 ug/l
RT: 12.854 min Scan# 1855
Delta R.T. 0.006 min
Lab File: VN076805.D
Acq: 24 Feb 2023 13:26

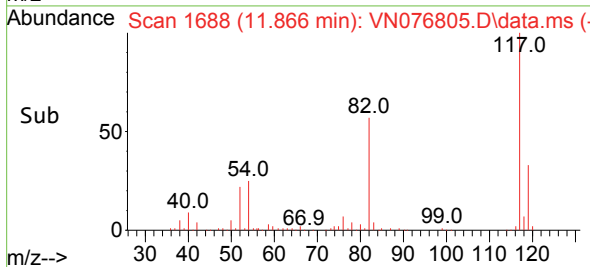
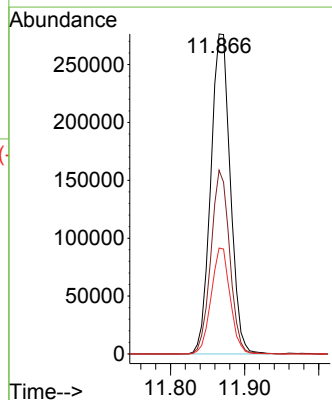
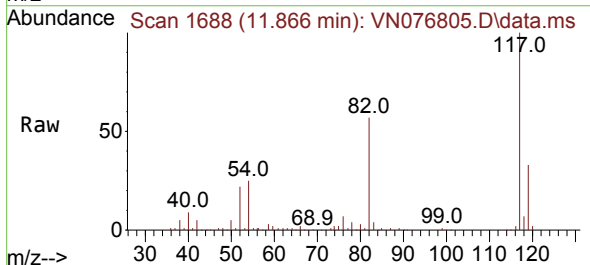
Instrument :
MSVOA_N
ClientSampleId :
UGT

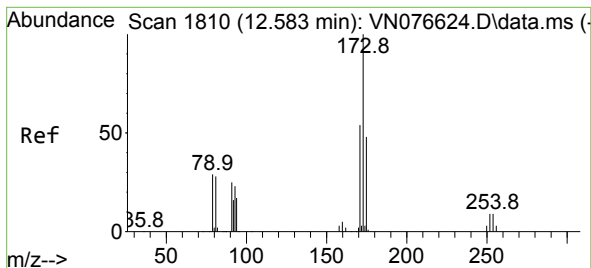
Tgt Ion: 95 Resp: 205805
Ion Ratio Lower Upper
95 100
174 75.2 0.0 169.2
176 73.1 0.0 163.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.866 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VN076805.D
Acq: 24 Feb 2023 13:26

Tgt Ion: 117 Resp: 507292
Ion Ratio Lower Upper
117 100
82 57.4 43.4 65.2
119 33.1 26.1 39.1





#71

Bromoform

Concen: 0.760 ug/l

RT: 12.848 min Scan# 1855

Delta R.T. 0.265 min

Lab File: VN076805.D

Acq: 24 Feb 2023 13:26

Instrument :

MSVOA_N

ClientSampleId :

UGT

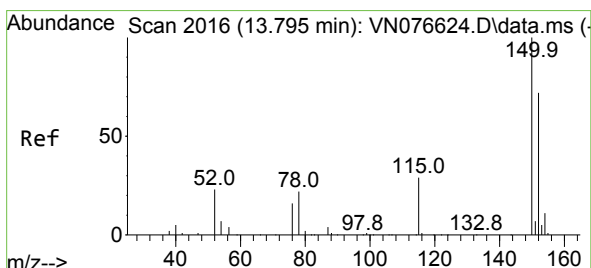
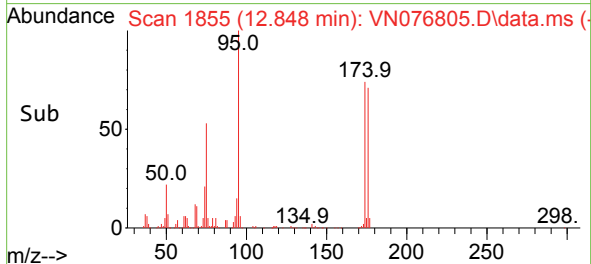
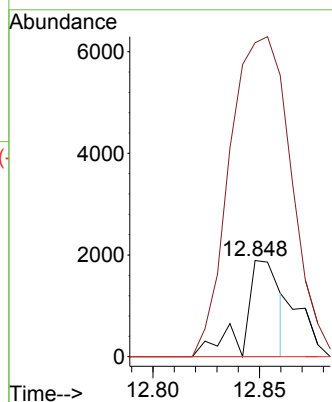
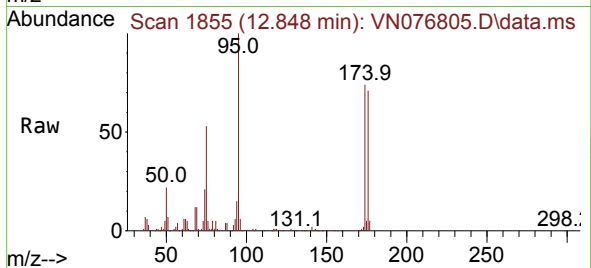
Tgt Ion:173 Resp: 2177

Ion Ratio Lower Upper

173 100

175 486.8 24.9 74.7#

254 0.0 0.1 0.1#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.795 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN076805.D

Acq: 24 Feb 2023 13:26

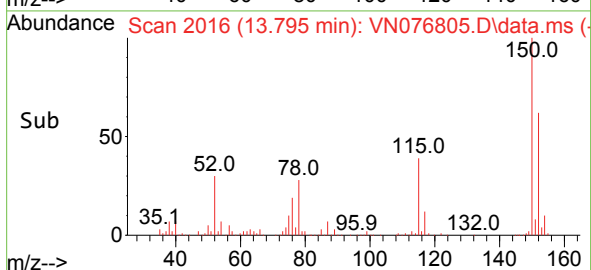
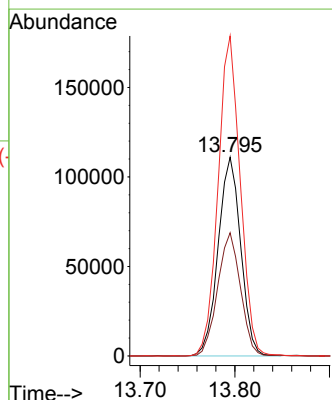
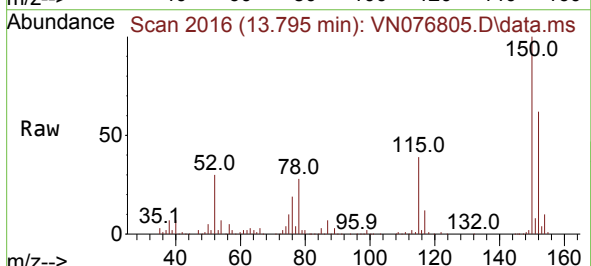
Tgt Ion:152 Resp: 183890

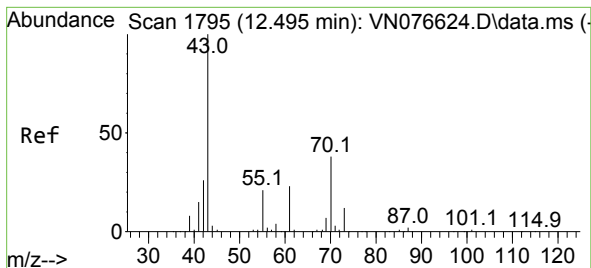
Ion Ratio Lower Upper

152 100

115 62.9 29.3 87.9

150 158.0 0.0 349.8





#74

N-amy1 acetate

Concen: 0.430 ug/l

RT: 12.489 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN076805.D

Acq: 24 Feb 2023 13:26

Instrument :

MSVOA_N

ClientSampleId :

UGT

Tgt Ion: 43 Resp: 2614

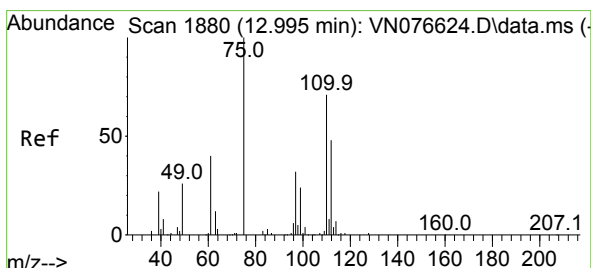
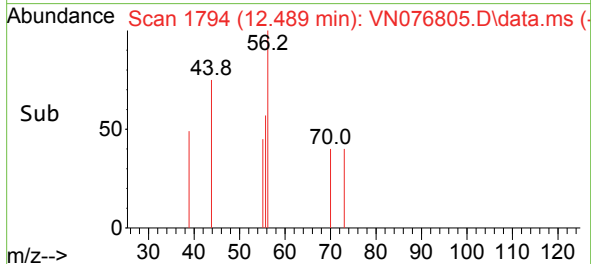
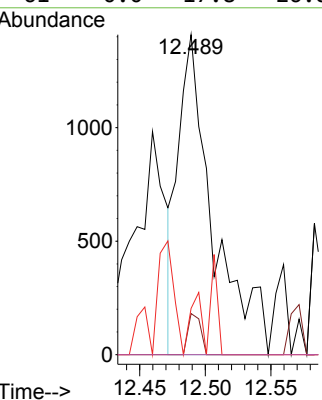
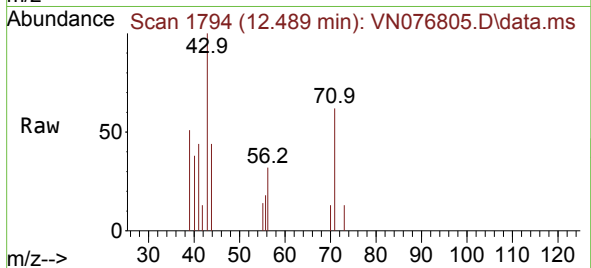
Ion Ratio Lower Upper

43 100

70 4.6 30.5 45.7#

55 6.5 17.8 26.8#

61 0.0 17.8 26.8#



#76

1,2,3-Trichloropropane

Concen: 30.428 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. -0.141 min

Lab File: VN076805.D

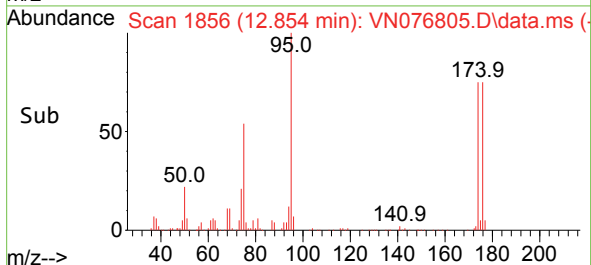
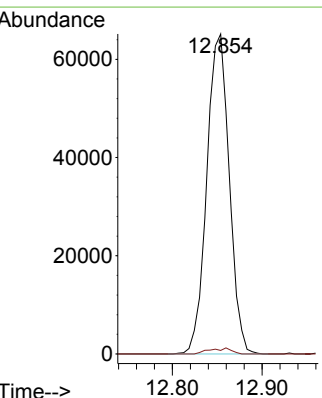
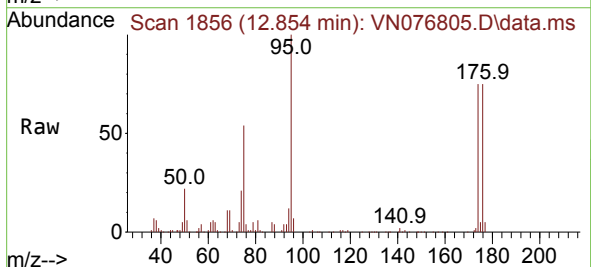
Acq: 24 Feb 2023 13:26

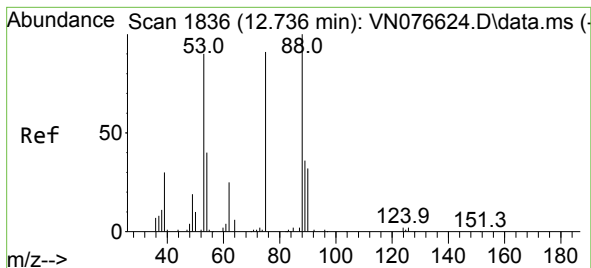
Tgt Ion: 75 Resp: 113125

Ion Ratio Lower Upper

75 100

77 1.8 93.1 279.3#

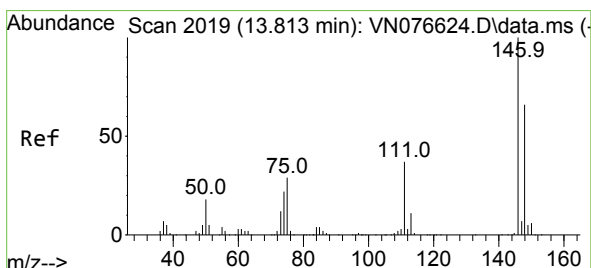
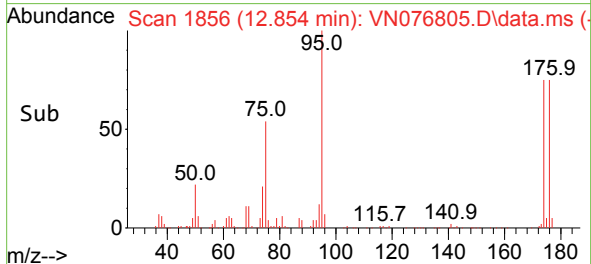
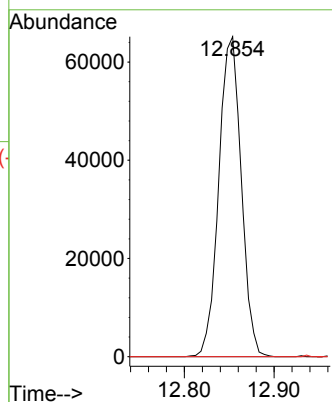
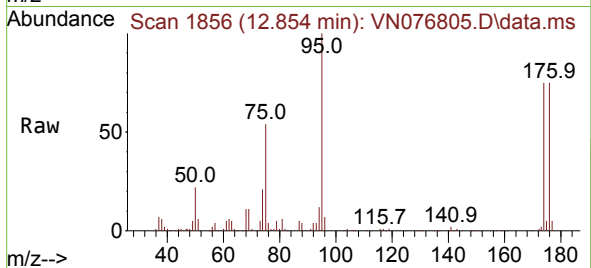




#81
 trans-1,4-Dichloro-2-butene
 Concen: 88.625 ug/l
 RT: 12.854 min Scan# 11
 Delta R.T. 0.118 min
 Lab File: VN076805.D
 Acq: 24 Feb 2023 13:26

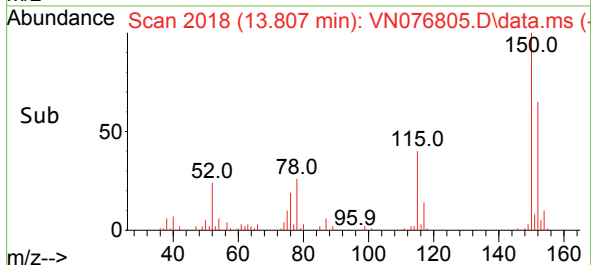
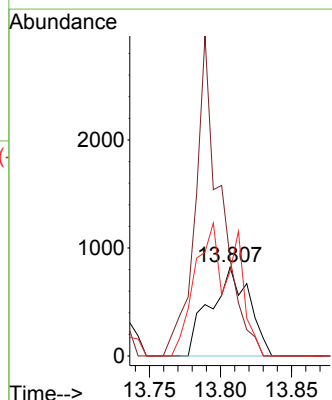
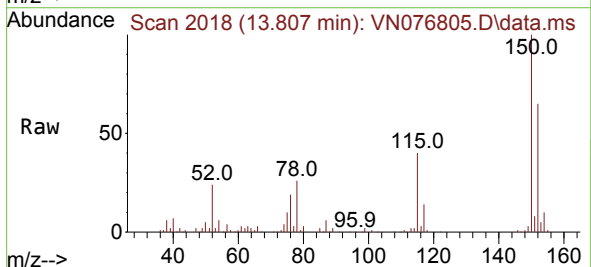
Instrument :
 MSVOA_N
 ClientSampleId :
 UGT

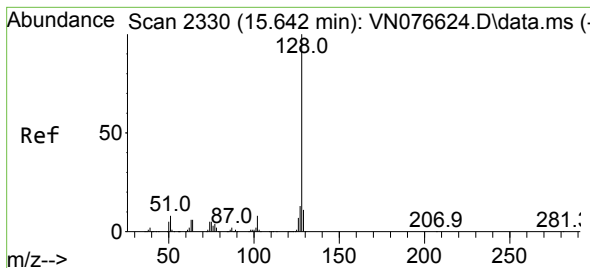
Tgt Ion: 75 Resp: 113125
 Ion Ratio Lower Upper
 75 100
 53 0.0 92.1 138.1#
 89 0.0 37.5 56.3#



#88
 1,4-Dichlorobenzene
 Concen: 0.247 ug/l
 RT: 13.807 min Scan# 2018
 Delta R.T. -0.006 min
 Lab File: VN076805.D
 Acq: 24 Feb 2023 13:26

Tgt Ion:146 Resp: 1565
 Ion Ratio Lower Upper
 146 100
 111 236.8 19.4 58.1#
 148 152.1 32.7 98.1#





#95

Naphthalene

Concen: 0.335 ug/l

RT: 15.648 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN076805.D

Acq: 24 Feb 2023 13:26

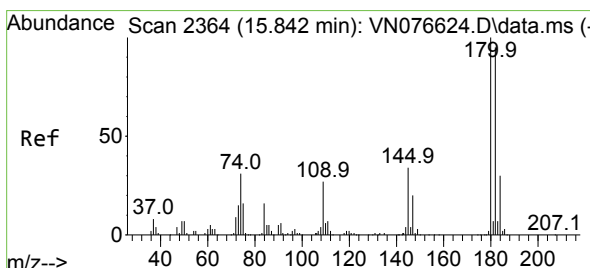
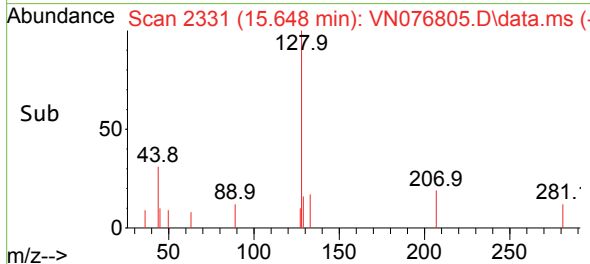
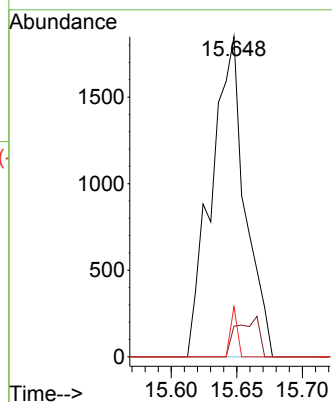
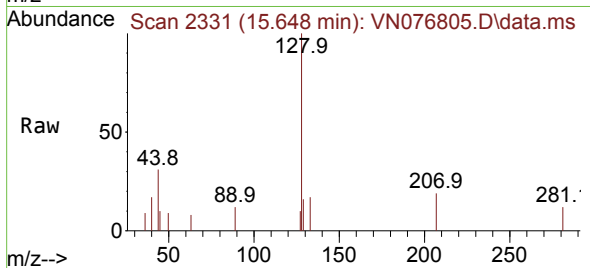
Instrument :

MSVOA_N

ClientSampleId :

UGT

Tgt Ion:128	Resp:	3304
Ion Ratio	Lower	Upper
128	100	
127	8.2	10.6 16.0#
129	3.1	8.6 13.0#



#96

1,2,3-Trichlorobenzene

Concen: 0.239 ug/l

RT: 15.836 min Scan# 2363

Delta R.T. -0.006 min

Lab File: VN076805.D

Acq: 24 Feb 2023 13:26

Tgt Ion:180	Resp:	754
Ion Ratio	Lower	Upper
180	100	
182	58.0	46.7 140.1
145	0.0	16.0 47.9#

