

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080322\
 Data File : VN073715.D
 Acq On : 03 Aug 2022 16:38
 Operator : JC\MD
 Sample : N3972-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SPN-7

Quant Time: Aug 04 05:35:47 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N072822W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 29 02:20:25 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.016	168	326802	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	537191	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	497509	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.616	152	226885	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.375	65	202606	50.873	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 101.740%	
35) Dibromofluoromethane	7.951	113	187005	55.438	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 110.880%	
50) Toluene-d8	10.380	98	608149	45.815	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 91.620%	
62) 4-Bromofluorobenzene	12.674	95	213305	48.398	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 96.800%	

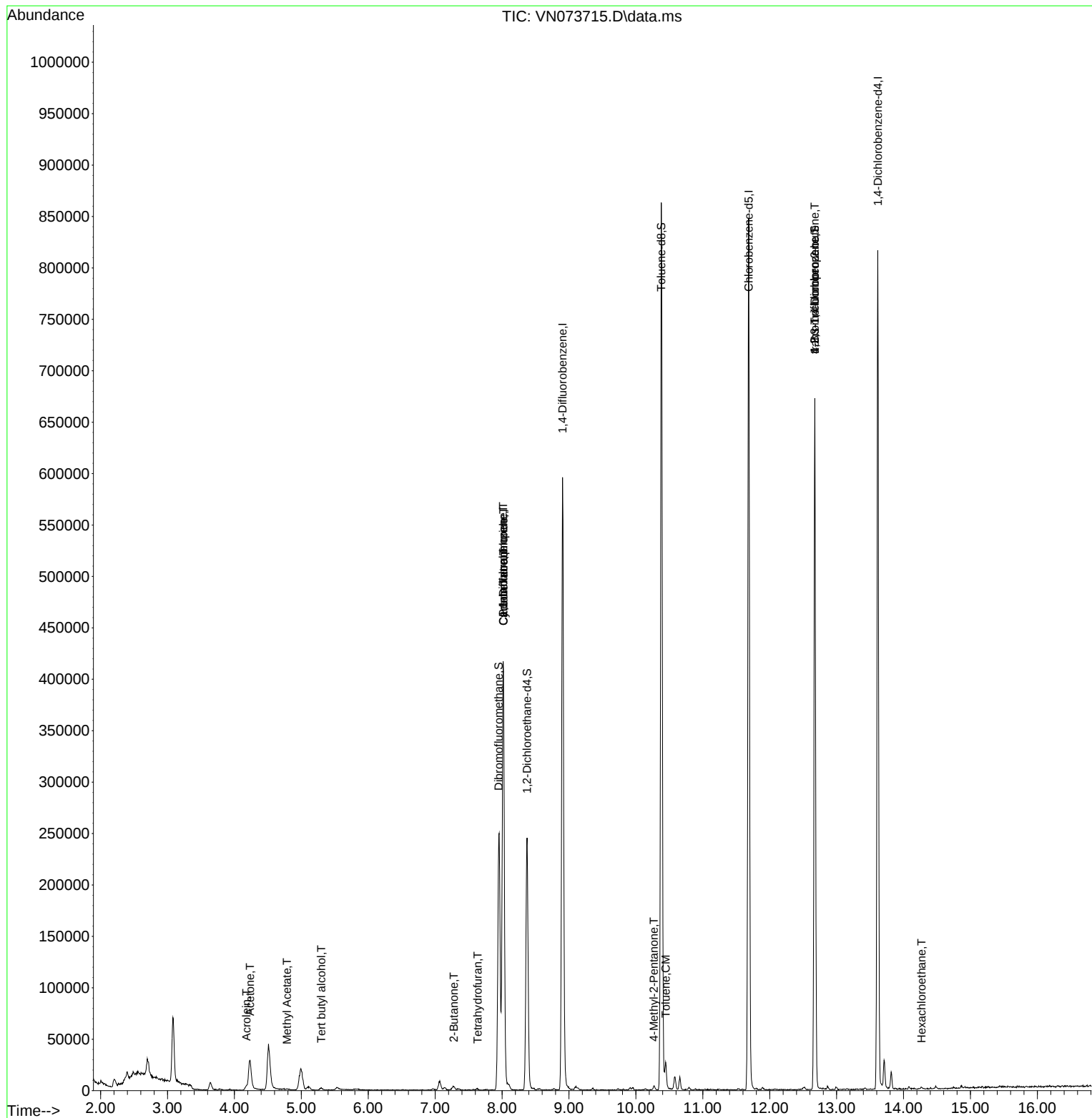
Target Compounds				Qvalue		
3) Chloromethane	2.269	50	845	Below Cal	#	74
6) Chloroethane	2.999	64	1008	Below Cal	#	42
11) Tert butyl alcohol	5.298	59	3224	3.754	ug/l #	78
13) Acrolein	4.181	56	1109	1.302	ug/l #	80
16) Acetone	4.234	43	57008	26.651	ug/l	99
18) Methyl Acetate	4.787	43	1919	0.361	ug/l #	60
20) Methylene Chloride	4.987	84	962	Below Cal	#	52
25) 2-Butanone	7.281	43	6244	1.880	ug/l	98
29) Tetrahydrofuran	7.634	42	892	0.425	ug/l #	57
31) Cyclohexane	8.022	56	8884	1.498	ug/l #	38
36) 1,1-Dichloropropene	8.016	75	24790	5.156	ug/l #	49
38) Carbon Tetrachloride	8.022	117	31973	6.548	ug/l #	16
51) 4-Methyl-2-Pentanone	10.269	43	2532	0.413	ug/l #	33
52) Toluene	10.445	92	9674	1.014	ug/l	98
76) 1,2,3-Trichloropropane	12.674	75	109584	24.737	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.674	75	109584	62.593	ug/l #	10
90) Hexachloroethane	14.268	117	1473	0.563	ug/l #	9

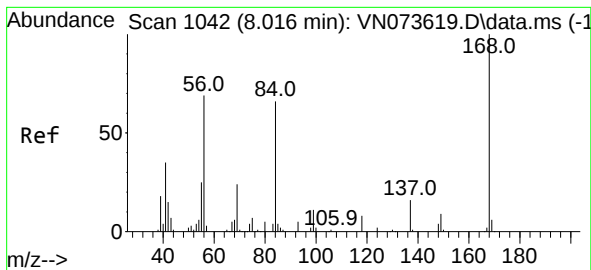
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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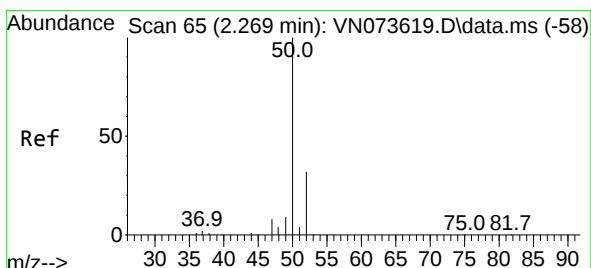
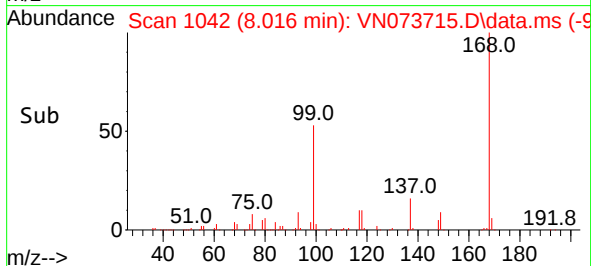
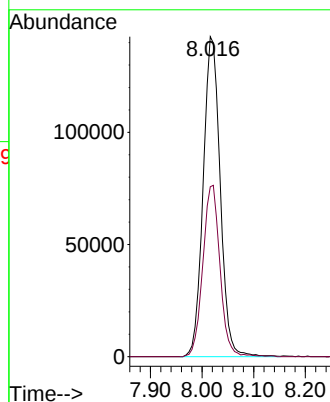
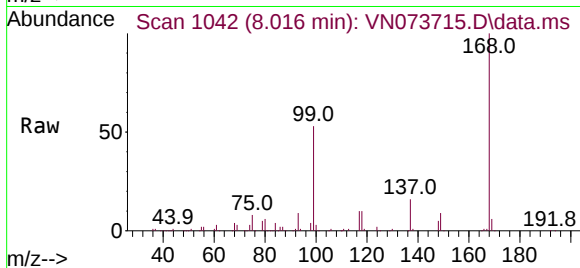




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.000 min
Lab File: VN073715.D
Acq: 03 Aug 2022 16:38

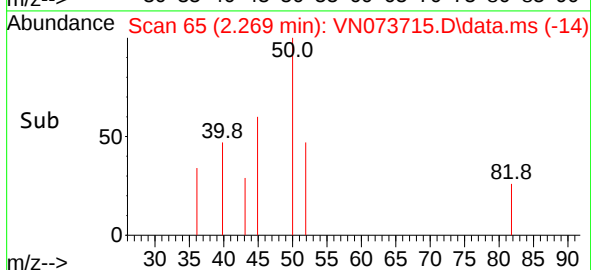
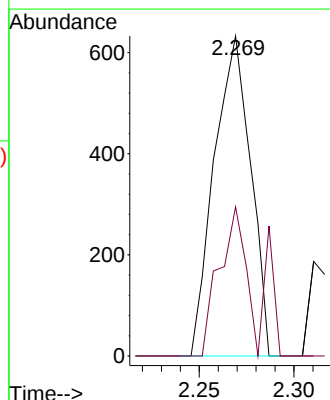
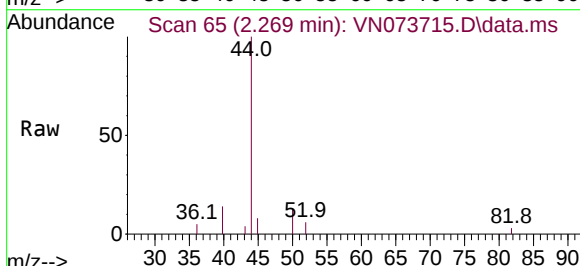
Instrument :
MSVOA_N
ClientSampleId :
SPN-7

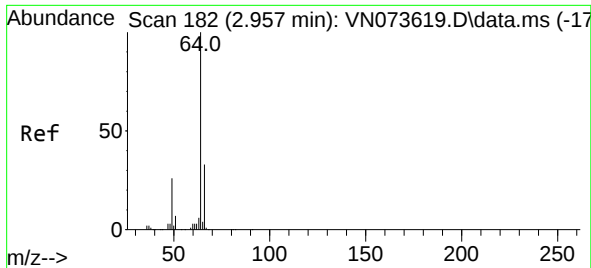
Tgt Ion:168 Resp: 326802
Ion Ratio Lower Upper
168 100
99 53.1 42.3 63.5



#3
Chloromethane
Concen: Below Cal
RT: 2.269 min Scan# 65
Delta R.T. 0.000 min
Lab File: VN073715.D
Acq: 03 Aug 2022 16:38

Tgt Ion: 50 Resp: 845
Ion Ratio Lower Upper
50 100
52 46.6 25.7 38.5#

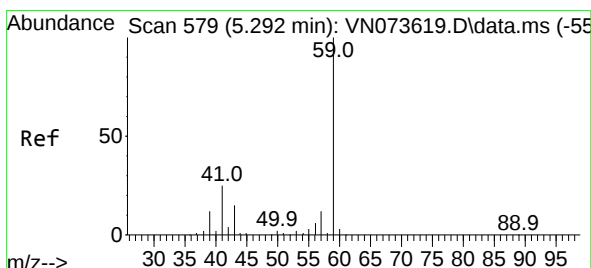
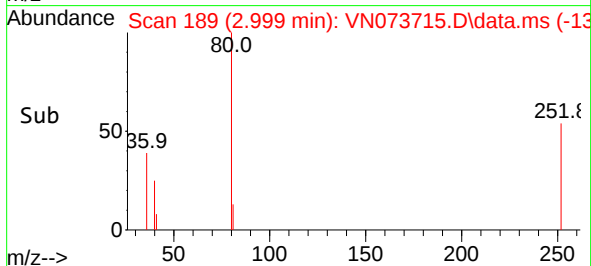
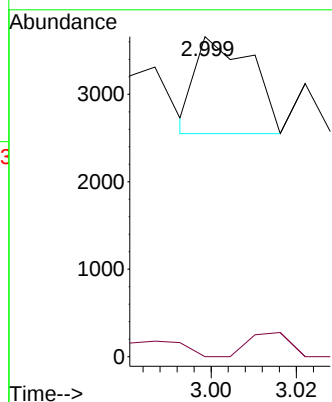
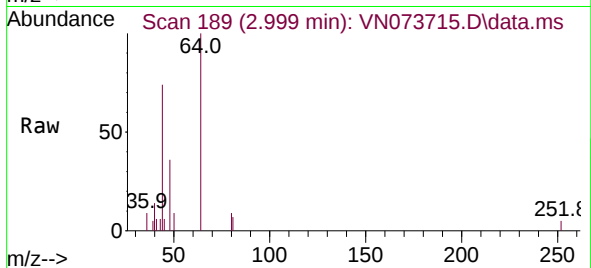




#6
Chloroethane
Concen: Below Cal
RT: 2.999 min Scan# 11
Delta R.T. 0.042 min
Lab File: VN073715.D
Acq: 03 Aug 2022 16:38

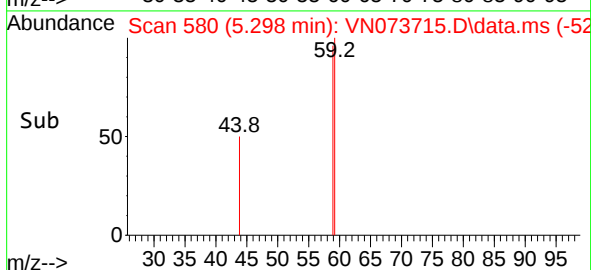
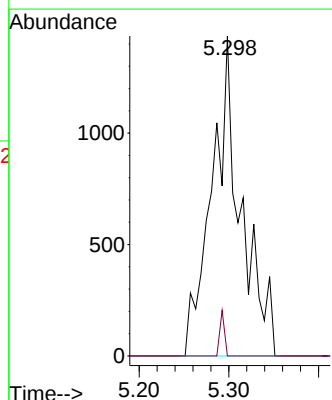
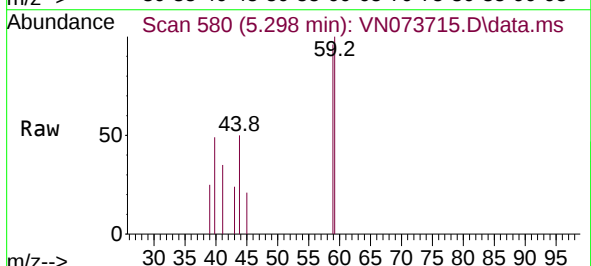
Instrument :
MSVOA_N
ClientSampleId :
SPN-7

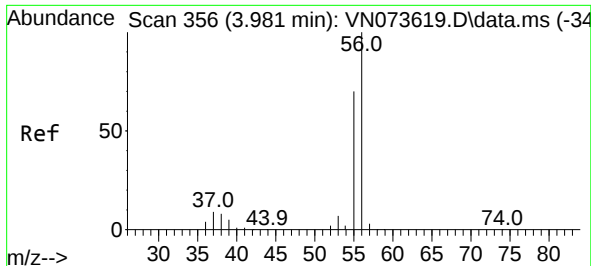
Tgt Ion: 64 Resp: 1008
Ion Ratio Lower Upper
64 100
66 0.0 26.2 39.4#



#11
Tert butyl alcohol
Concen: 3.754 ug/l
RT: 5.298 min Scan# 580
Delta R.T. 0.006 min
Lab File: VN073715.D
Acq: 03 Aug 2022 16:38

Tgt Ion: 59 Resp: 3224
Ion Ratio Lower Upper
59 100
57 2.2 8.3 12.5#

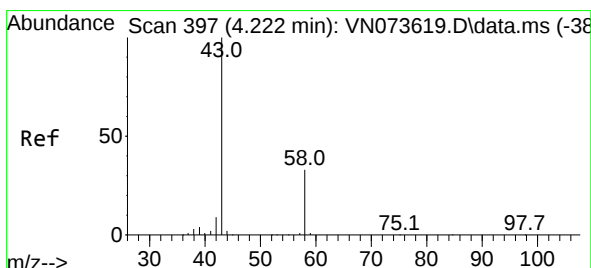
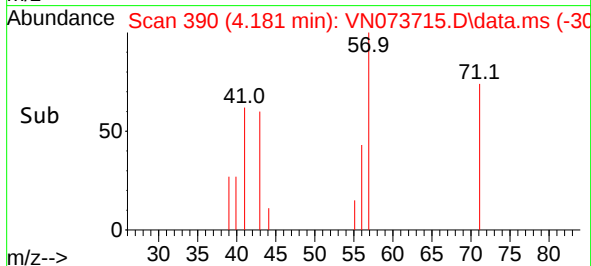
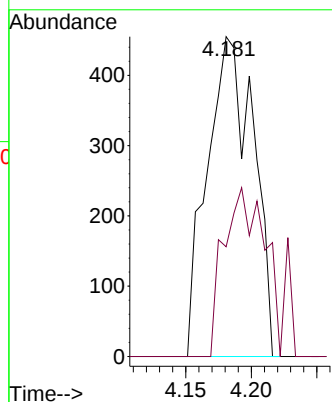
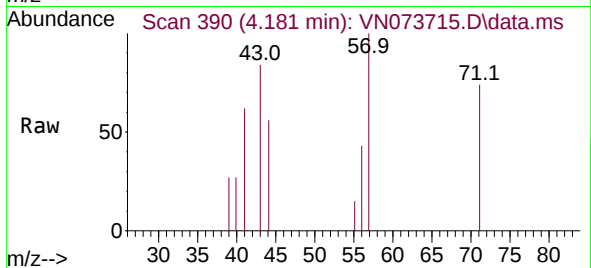




#13
Acrolein
Concen: 1.302 ug/l
RT: 4.181 min Scan# 390
Delta R.T. 0.200 min
Lab File: VN073715.D
Acq: 03 Aug 2022 16:38

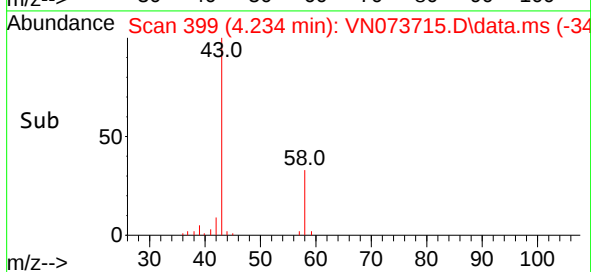
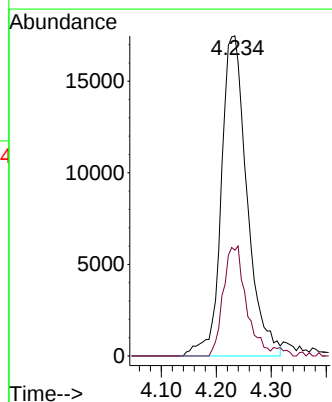
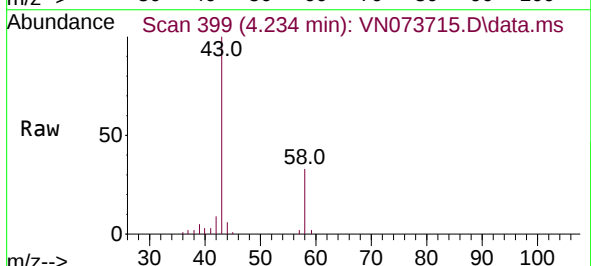
Instrument :
MSVOA_N
ClientSampleId :
SPN-7

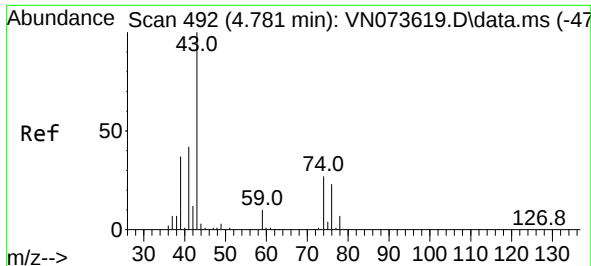
Tgt Ion: 56 Resp: 1109
Ion Ratio Lower Upper
56 100
55 52.2 54.8 82.2#



#16
Acetone
Concen: 26.651 ug/l
RT: 4.234 min Scan# 399
Delta R.T. 0.012 min
Lab File: VN073715.D
Acq: 03 Aug 2022 16:38

Tgt Ion: 43 Resp: 57008
Ion Ratio Lower Upper
43 100
58 33.0 26.0 39.0

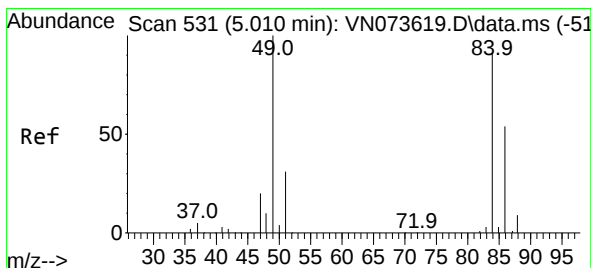
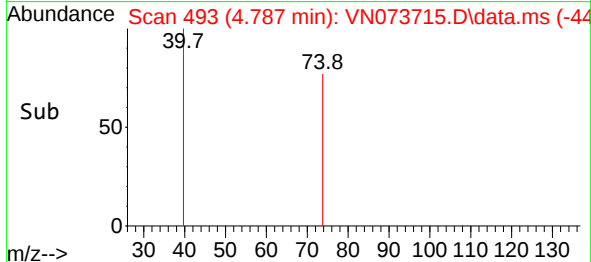
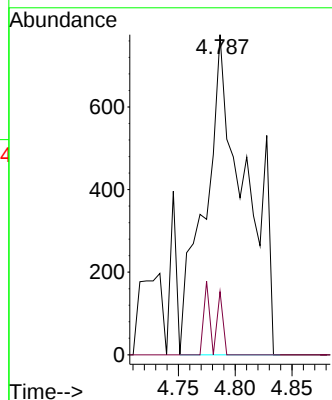
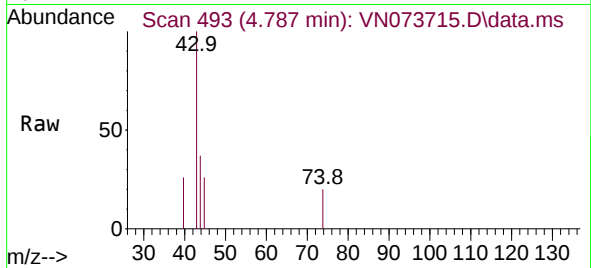




#18
Methyl Acetate
Concen: 0.361 ug/l
RT: 4.787 min Scan# 492
Delta R.T. 0.006 min
Lab File: VN073715.D
Acq: 03 Aug 2022 16:38

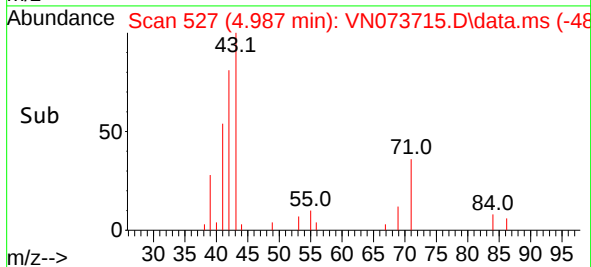
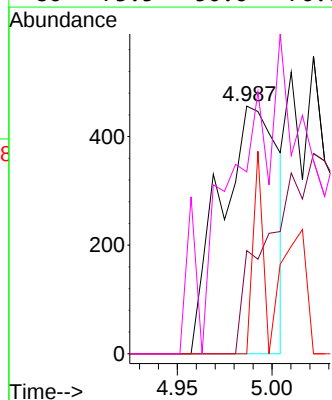
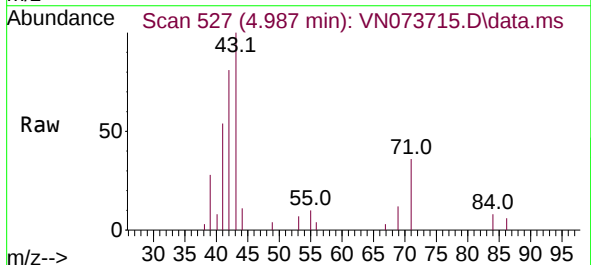
Instrument :
MSVOA_N
ClientSampleId :
SPN-7

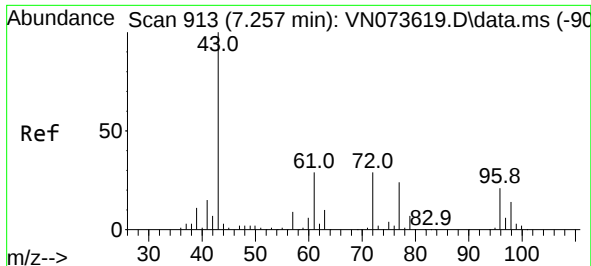
Tgt Ion: 43 Resp: 1919
Ion Ratio Lower Upper
43 100
74 6.1 21.6 32.4#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.987 min Scan# 527
Delta R.T. -0.023 min
Lab File: VN073715.D
Acq: 03 Aug 2022 16:38

Tgt Ion: 84 Resp: 962
Ion Ratio Lower Upper
84 100
49 41.7 88.3 132.5#
51 0.0 28.2 42.2#
86 73.5 50.6 76.0





#25

2-Butanone

Concen: 1.880 ug/l

RT: 7.281 min Scan# 917

Delta R.T. 0.024 min

Lab File: VN073715.D

Acq: 03 Aug 2022 16:38

Instrument :

MSVOA_N

ClientSampleId :

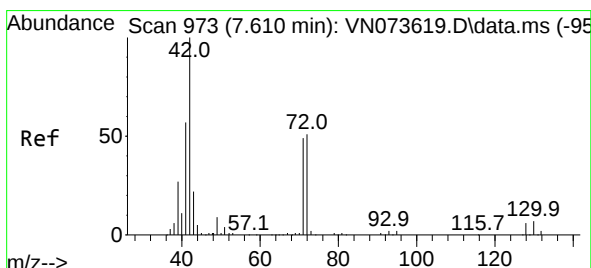
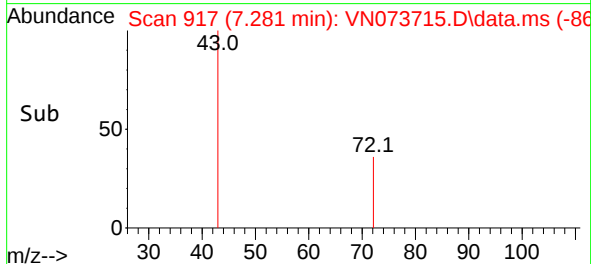
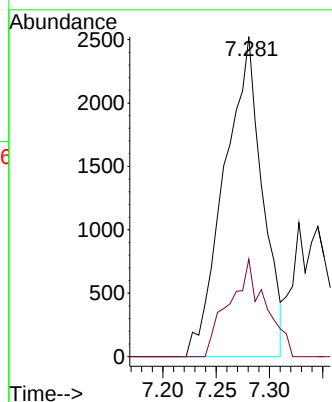
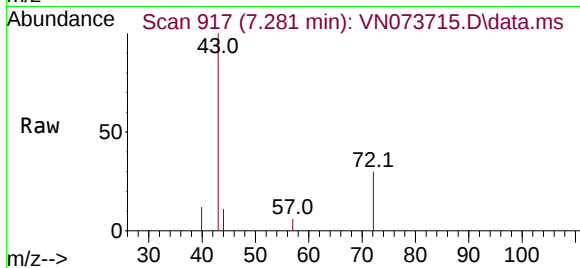
SPN-7

Tgt Ion: 43 Resp: 6244

Ion Ratio Lower Upper

43 100

72 30.5 23.7 35.5



#29

Tetrahydrofuran

Concen: 0.425 ug/l

RT: 7.634 min Scan# 977

Delta R.T. 0.024 min

Lab File: VN073715.D

Acq: 03 Aug 2022 16:38

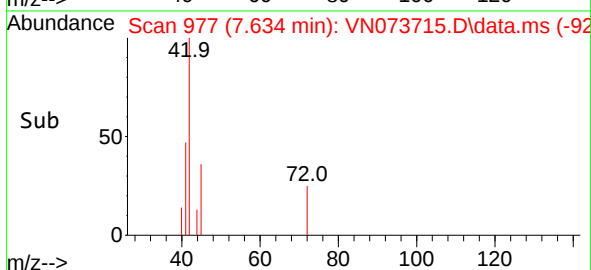
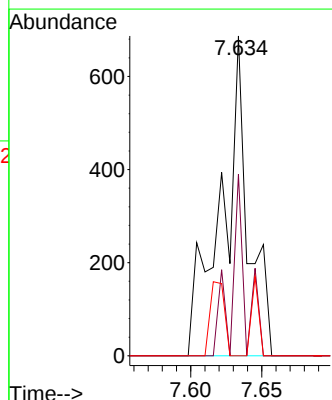
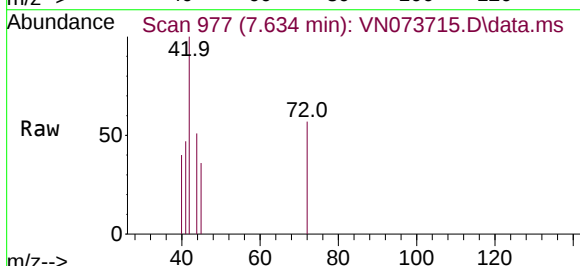
Tgt Ion: 42 Resp: 892

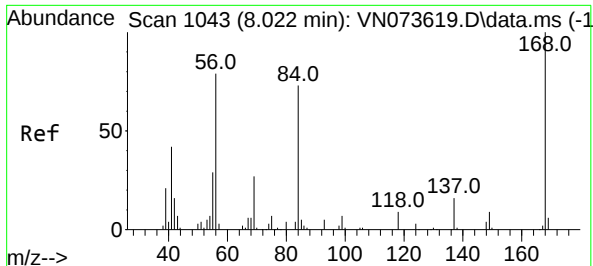
Ion Ratio Lower Upper

42 100

72 30.2 39.7 59.5#

71 6.7 36.6 55.0#

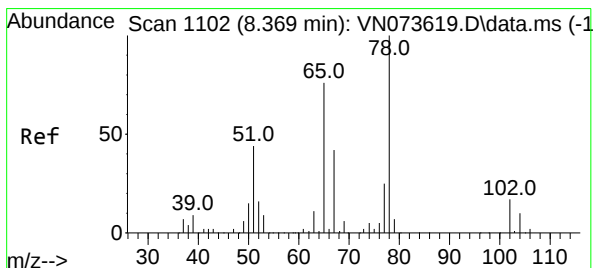
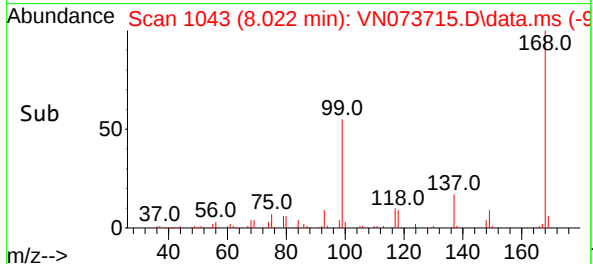
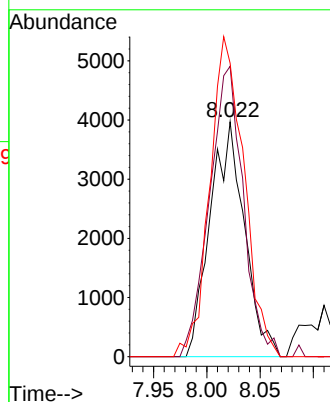
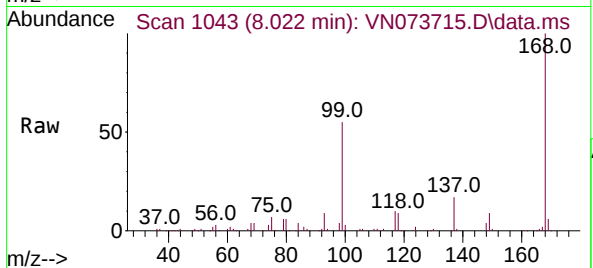




#31
Cyclohexane
Concen: 1.498 ug/l
RT: 8.022 min Scan# 1103
Delta R.T. 0.000 min
Lab File: VN073715.D
Acq: 03 Aug 2022 16:38

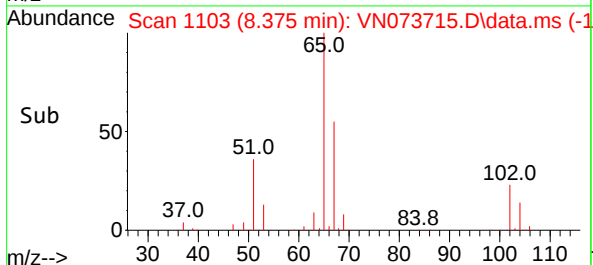
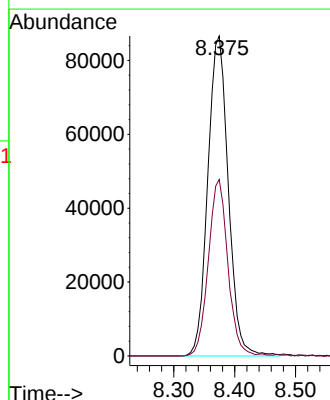
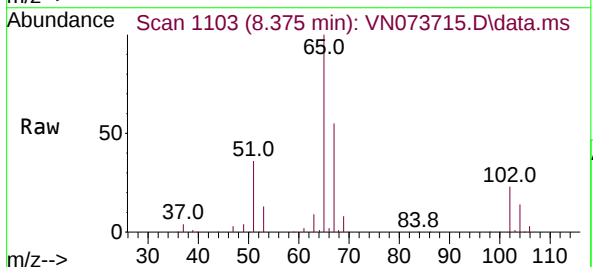
Instrument :
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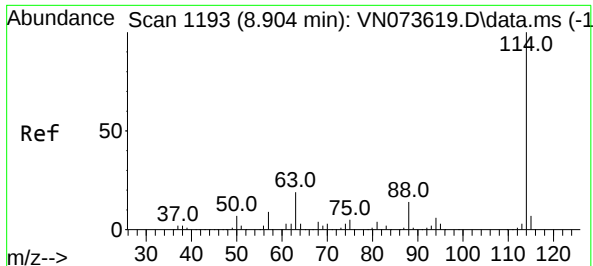
Tgt Ion: 56 Resp: 8884
Ion Ratio Lower Upper
56 100
69 123.6 27.8 41.8#
84 124.9 76.9 115.3#



#33
1,2-Dichloroethane-d4
Concen: 50.873 ug/l
RT: 8.375 min Scan# 1103
Delta R.T. 0.006 min
Lab File: VN073715.D
Acq: 03 Aug 2022 16:38

Tgt Ion: 65 Resp: 202606
Ion Ratio Lower Upper
65 100
67 52.8 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VN073715.D

Acq: 03 Aug 2022 16:38

Instrument :

MSVOA_N

ClientSampleId :

SPN-7

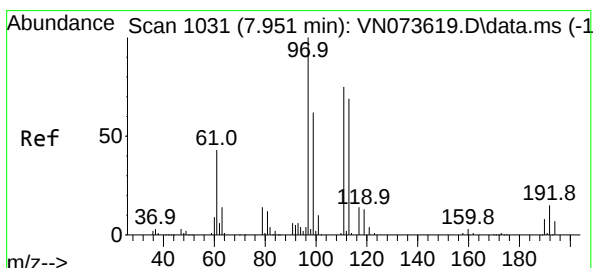
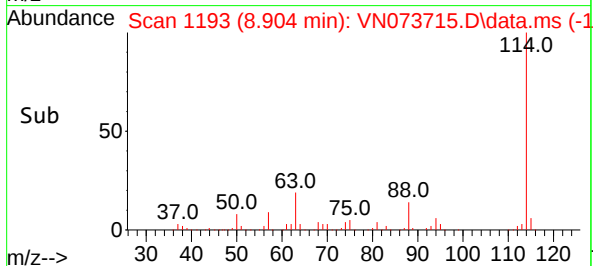
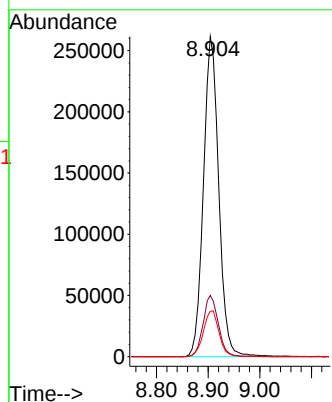
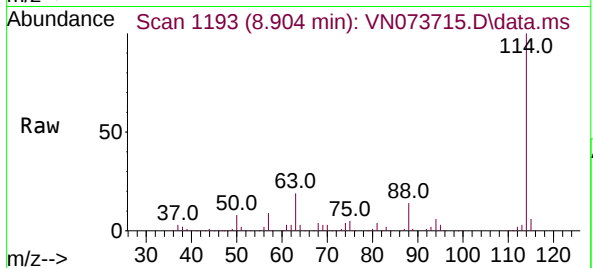
Tgt Ion:114 Resp: 537191

Ion Ratio Lower Upper

114 100

63 19.2 0.0 40.0

88 14.2 0.0 32.6



#35

Dibromofluoromethane

Concen: 55.438 ug/l

RT: 7.951 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VN073715.D

Acq: 03 Aug 2022 16:38

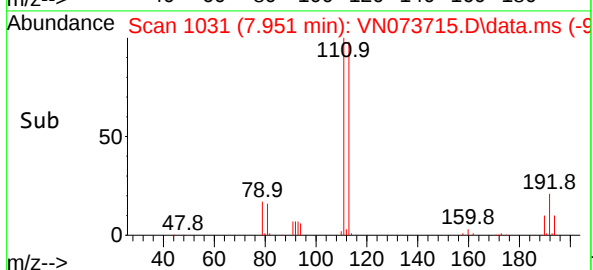
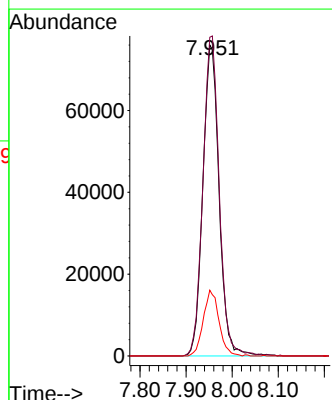
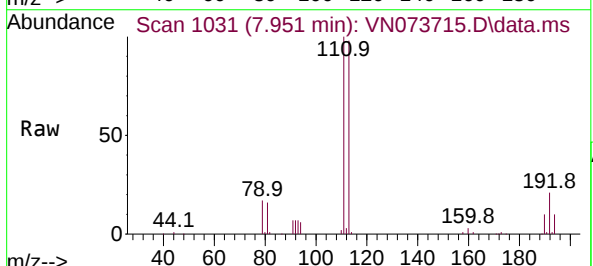
Tgt Ion:113 Resp: 187005

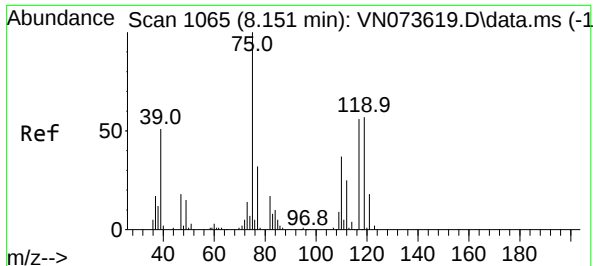
Ion Ratio Lower Upper

113 100

111 103.4 81.4 122.0

192 20.5 17.0 25.6





#36

1,1-Dichloropropene

Concen: 5.156 ug/l

RT: 8.016 min Scan# 1042

Delta R.T. -0.135 min

Lab File: VN073715.D

Acq: 03 Aug 2022 16:38

Instrument :

MSVOA_N

ClientSampleId :

SPN-7

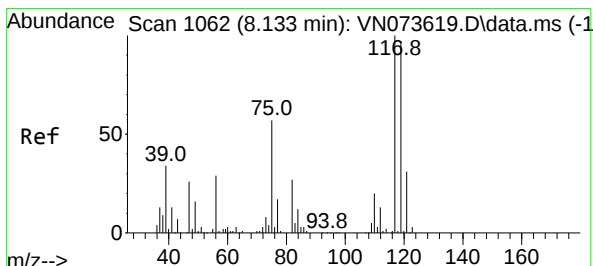
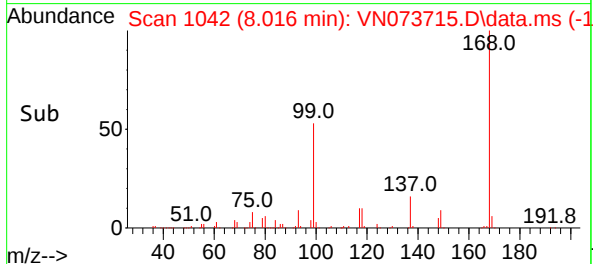
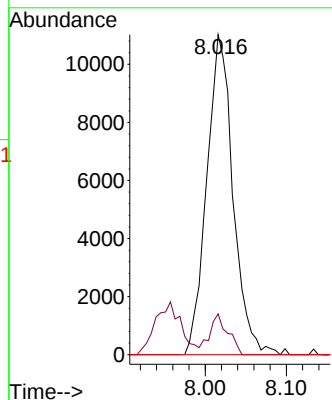
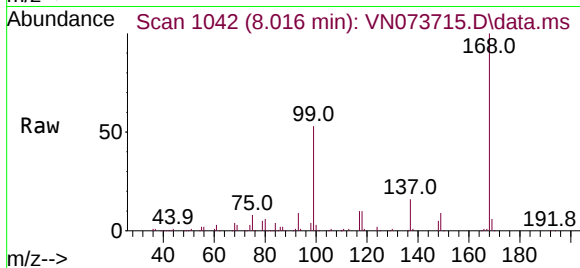
Tgt Ion: 75 Resp: 24790

Ion Ratio Lower Upper

75 100

110 8.8 18.3 54.8#

77 0.0 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 6.548 ug/l

RT: 8.022 min Scan# 1043

Delta R.T. -0.112 min

Lab File: VN073715.D

Acq: 03 Aug 2022 16:38

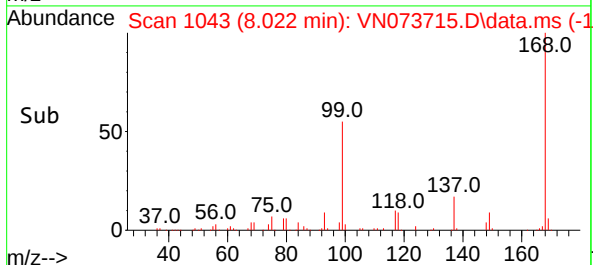
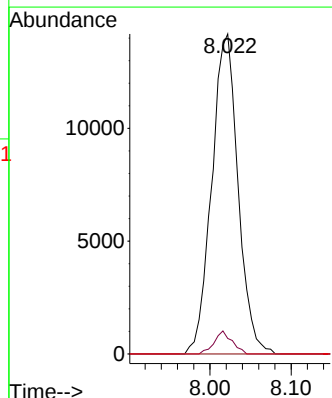
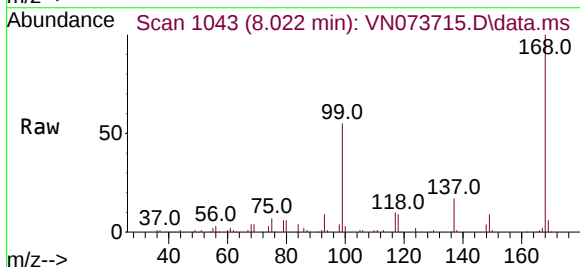
Tgt Ion: 117 Resp: 31973

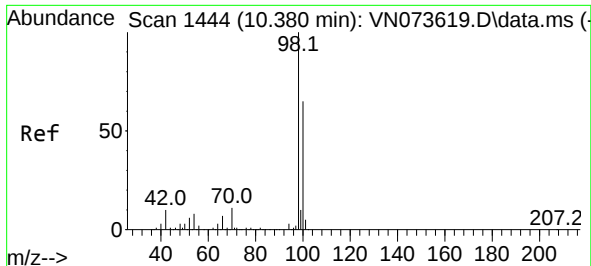
Ion Ratio Lower Upper

117 100

119 4.8 75.8 113.8#

121 0.0 24.6 37.0#

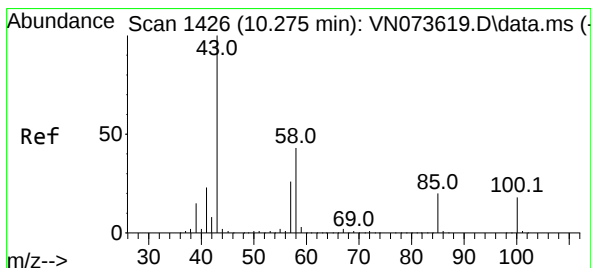
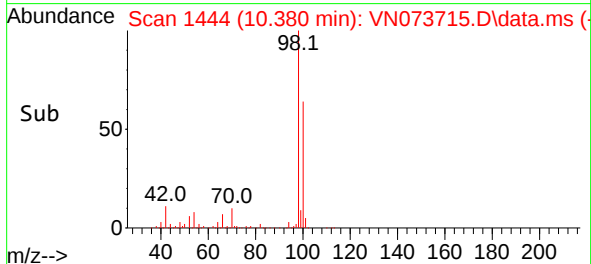
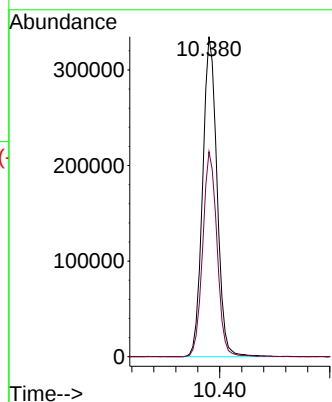
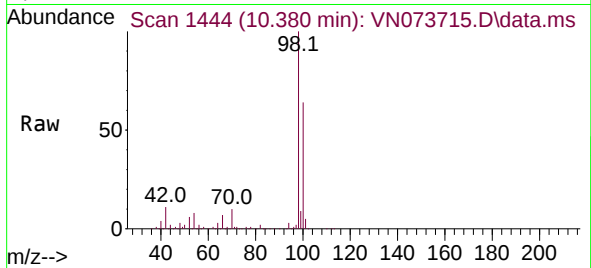




#50
Toluene-d8
Concen: 45.815 ug/l
RT: 10.380 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN073715.D
Acq: 03 Aug 2022 16:38

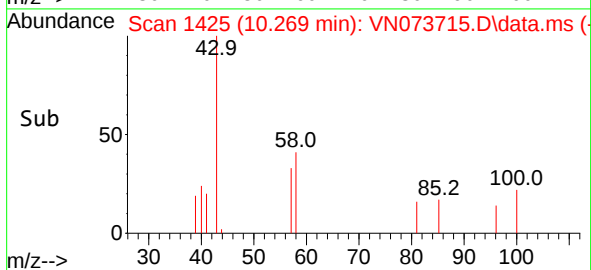
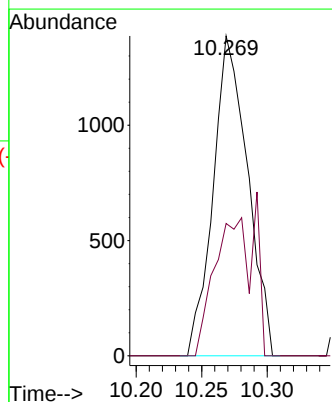
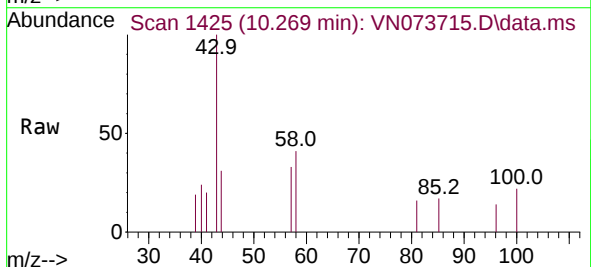
Instrument :
MSVOA_N
ClientSampleId :
SPN-7

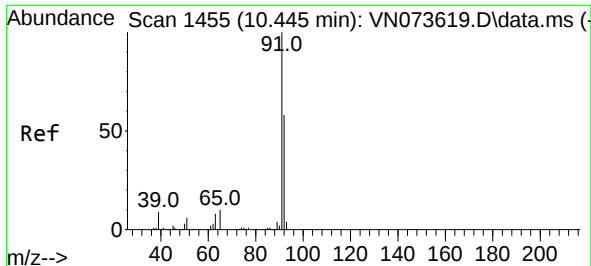
Tgt Ion: 98 Resp: 608149
Ion Ratio Lower Upper
98 100
100 63.7 52.6 78.8



#51
4-Methyl-2-Pentanone
Concen: 0.413 ug/l
RT: 10.269 min Scan# 1425
Delta R.T. -0.006 min
Lab File: VN073715.D
Acq: 03 Aug 2022 16:38

Tgt Ion: 43 Resp: 2532
Ion Ratio Lower Upper
43 100
58 0.0 34.1 51.1#

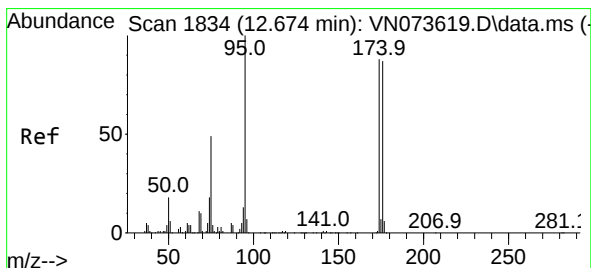
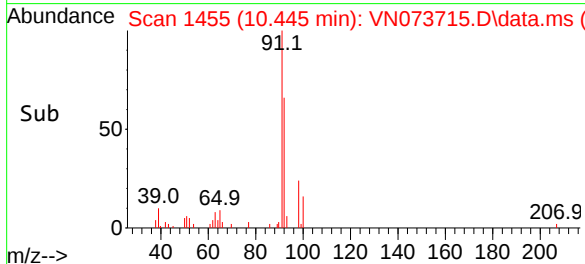
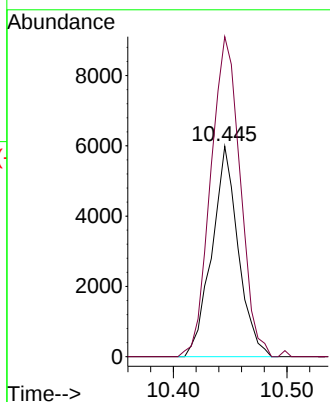
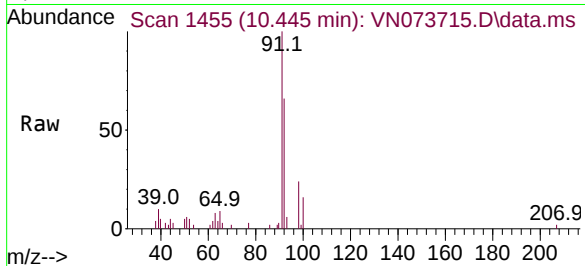




#52
Toluene
Concen: 1.014 ug/l
RT: 10.445 min Scan# 1455
Delta R.T. 0.000 min
Lab File: VN073715.D
Acq: 03 Aug 2022 16:38

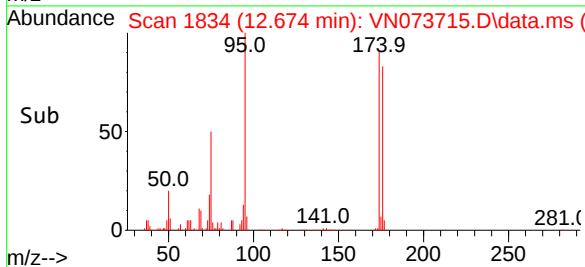
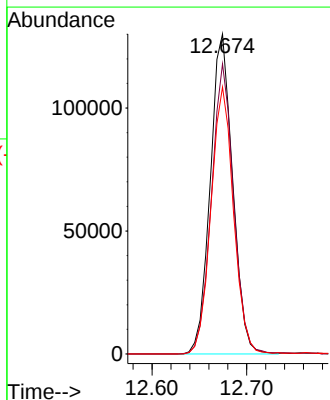
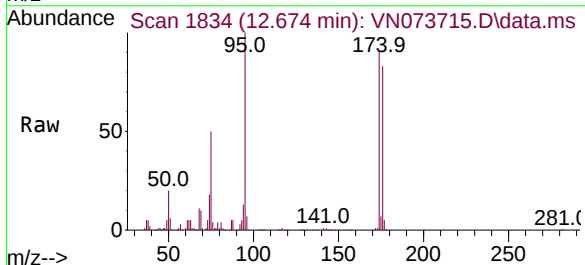
Instrument :
MSVOA_N
ClientSampleId :
SPN-7

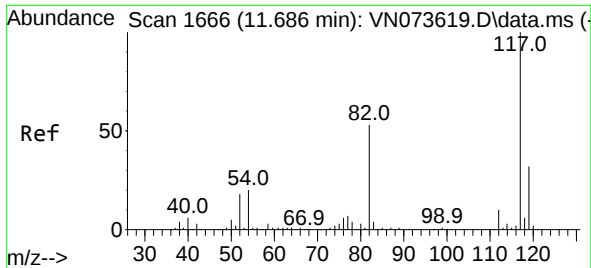
Tgt Ion: 92 Resp: 9674
Ion Ratio Lower Upper
92 100
91 169.9 138.6 207.8



#62
4-Bromofluorobenzene
Concen: 48.398 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.000 min
Lab File: VN073715.D
Acq: 03 Aug 2022 16:38

Tgt Ion: 95 Resp: 213305
Ion Ratio Lower Upper
95 100
174 90.0 0.0 167.6
176 84.0 0.0 163.4

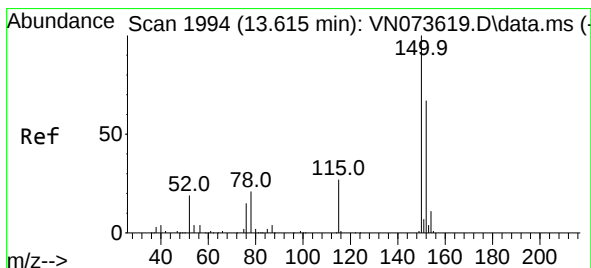
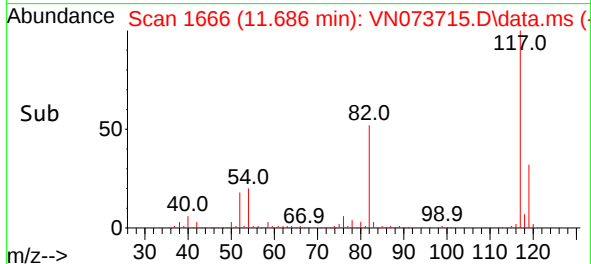
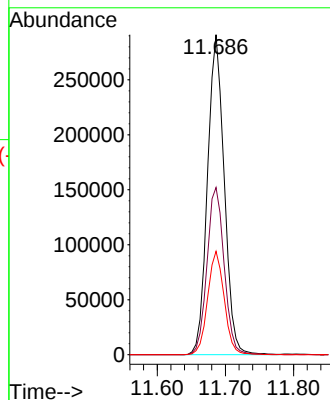
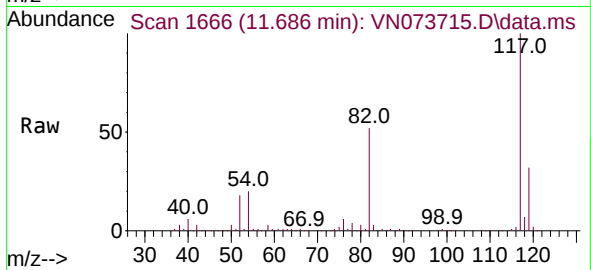




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.686 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN073715.D
Acq: 03 Aug 2022 16:38

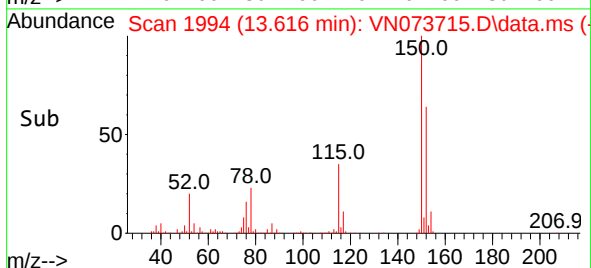
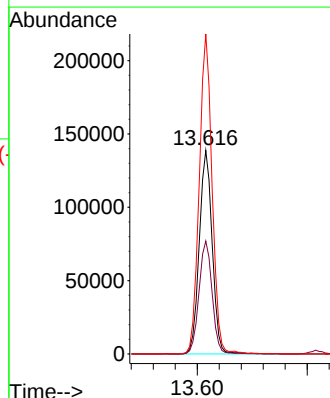
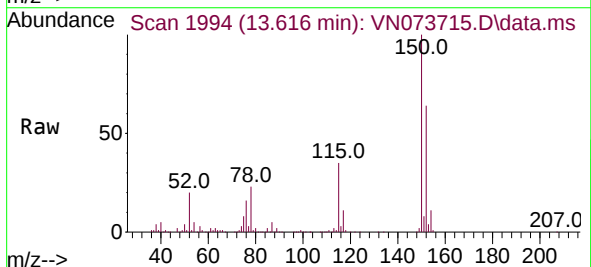
Instrument :
MSVOA_N
ClientSampleId :
SPN-7

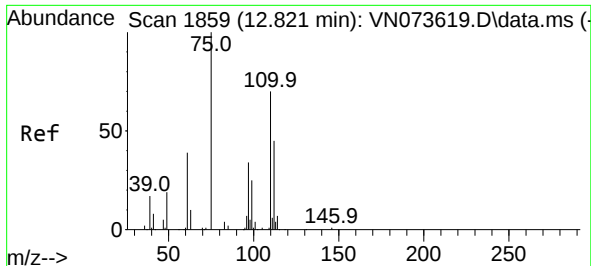
Tgt Ion:117 Resp: 497509
Ion Ratio Lower Upper
117 100
82 52.3 44.2 66.2
119 32.3 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.616 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VN073715.D
Acq: 03 Aug 2022 16:38

Tgt Ion:152 Resp: 226885
Ion Ratio Lower Upper
152 100
115 56.3 28.9 86.7
150 156.1 0.0 356.2

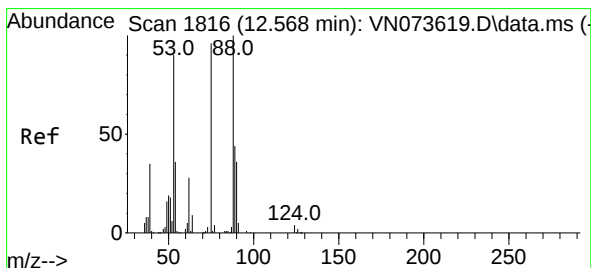
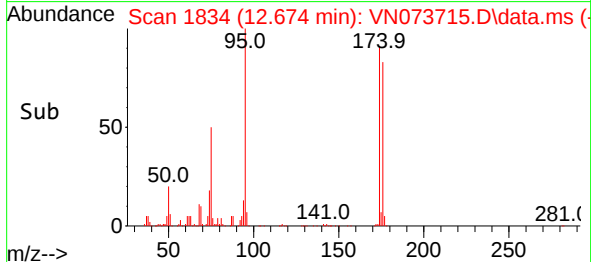
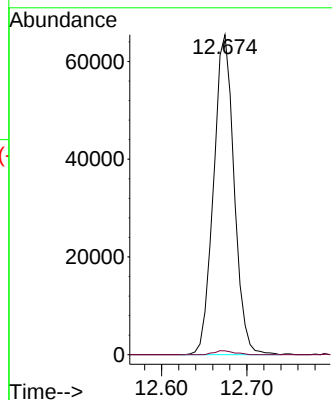
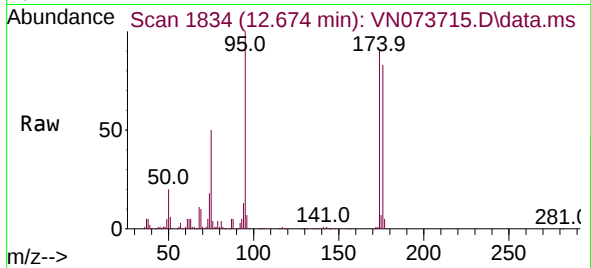




#76
1,2,3-Trichloropropane
Concen: 24.737 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. -0.147 min
Lab File: VN073715.D
Acq: 03 Aug 2022 16:38

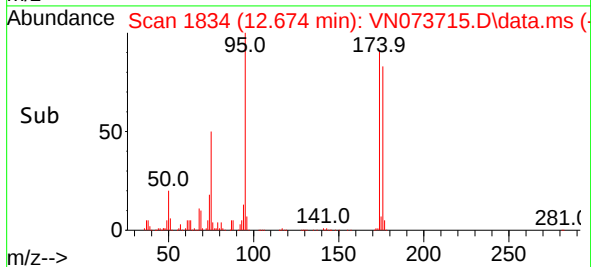
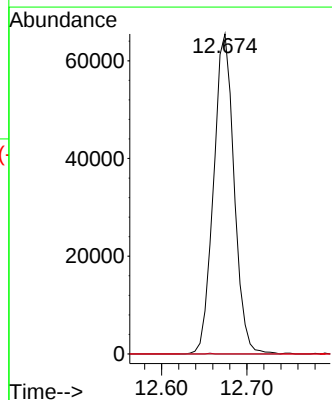
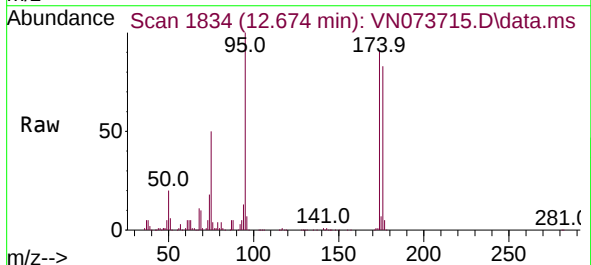
Instrument :
MSVOA_N
ClientSampleId :
SPN-7

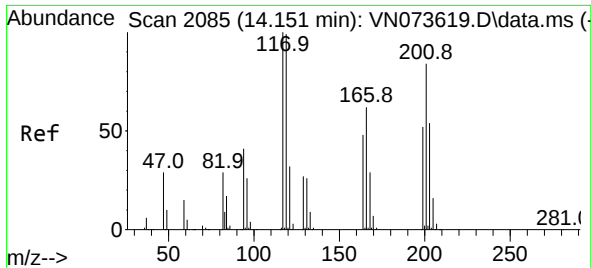
Tgt Ion: 75 Resp: 109584
Ion Ratio Lower Upper
75 100
77 1.2 98.5 295.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 62.593 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.106 min
Lab File: VN073715.D
Acq: 03 Aug 2022 16:38

Tgt Ion: 75 Resp: 109584
Ion Ratio Lower Upper
75 100
53 0.1 78.0 117.0#
89 0.0 37.2 55.8#





#90
Hexachloroethane
Concen: 0.563 ug/l
RT: 14.268 min Scan# 21
Delta R.T. 0.118 min
Lab File: VN073715.D
Acq: 03 Aug 2022 16:38

Instrument :
MSVOA_N
ClientSampleId :
SPN-7

Tgt Ion:117 Resp: 1473
Ion Ratio Lower Upper
117 100
201 0.0 40.6 122.0#

