

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072922\
 Data File : VN073642.D
 Acq On : 29 Jul 2022 18:12
 Operator : JC\MD
 Sample : PB146545ZHE#03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB146545ZHE#03

Quant Time: Aug 01 04:07:46 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

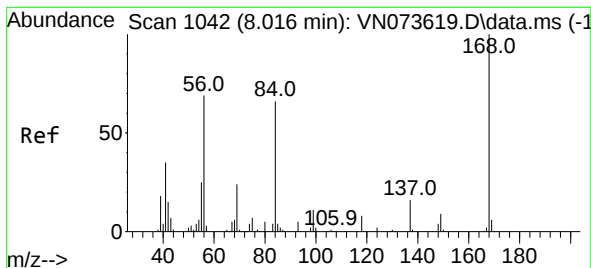
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.016	168	342945	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	572098	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	564374	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.615	152	249365	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	196507	47.019	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	94.040%		
35) Dibromofluoromethane	7.951	113	183110	50.971	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	101.940%		
50) Toluene-d8	10.380	98	636166	45.001	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	90.000%		
62) 4-Bromofluorobenzene	12.674	95	236757	50.108	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	100.220%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.269	50	741	Below Cal	#	68
5) Bromomethane	2.840	94	1095	0.325	ug/l #	59
6) Chloroethane	2.934	64	521	Below Cal	#	42
11) Tert butyl alcohol	5.287	59	1660	1.842	ug/l #	91
16) Acetone	4.228	43	102331	45.587	ug/l	97
18) Methyl Acetate	4.787	43	6671	1.195	ug/l #	72
20) Methylene Chloride	5.010	84	24201	4.666	ug/l	96
25) 2-Butanone	7.269	43	27821	7.981	ug/l	90
29) Tetrahydrofuran	7.616	42	9636	4.372	ug/l	97
31) Cyclohexane	8.022	56	6714	1.079	ug/l #	35
36) 1,1-Dichloropropene	8.016	75	25348	4.951	ug/l #	49
37) Ethyl Acetate	7.339	43	62886	9.326	ug/l	98
38) Carbon Tetrachloride	8.022	117	32198	6.192	ug/l #	16
41) Methacrylonitrile	7.616	41	5765	1.889	ug/l #	40
42) 1,2-Dichloroethane	8.486	62	1559	0.278	ug/l #	74
43) Isopropyl Acetate	8.498	43	237673	26.096	ug/l #	92
48) Methyl methacrylate	9.492	41	8231	2.065	ug/l #	39
49) 1,4-Dioxane	9.504	88	448	3.987	ug/l #	1
51) 4-Methyl-2-Pentanone	10.269	43	24814	3.799	ug/l #	80
53) t-1,3-Dichloropropene	10.557	75	1575	0.288	ug/l #	1
54) cis-1,3-Dichloropropene	10.186	75	88922	14.429	ug/l #	64
57) 1,3-Dichloropropane	11.033	76	12629	1.758	ug/l #	42
58) 2-Chloroethyl Vinyl ether	10.186	63	69	9.963	ug/l #	44
59) 2-Hexanone	11.033	43	164373	33.212	ug/l #	50
74) N-amyl acetate	12.316	43	3083	0.447	ug/l #	39
76) 1,2,3-Trichloropropane	12.674	75	120579	24.769	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.674	75	120579	62.664	ug/l #	10

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

Quant Time: Aug 01 04:07:46 2022
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QLast Update : Fri Jul 29 02:20:25 2022
Response via : Initial Calibration

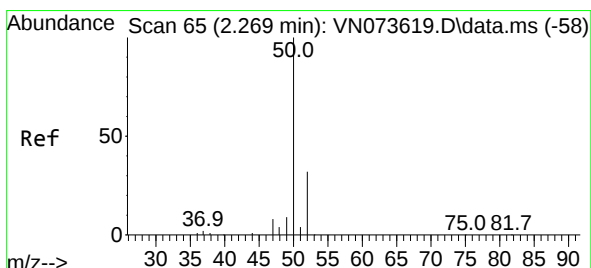
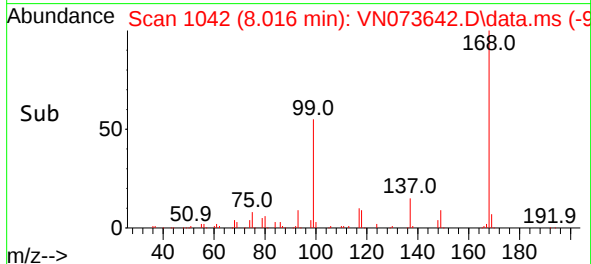
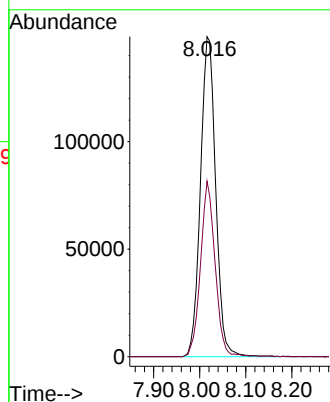
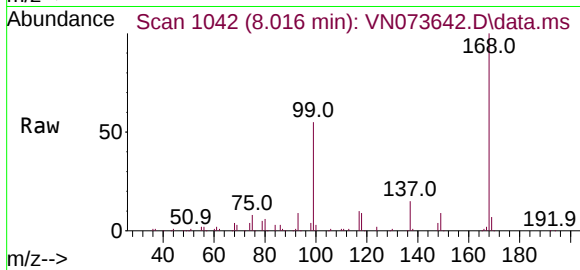




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.000 min
Lab File: VN073642.D
Acq: 29 Jul 2022 18:12

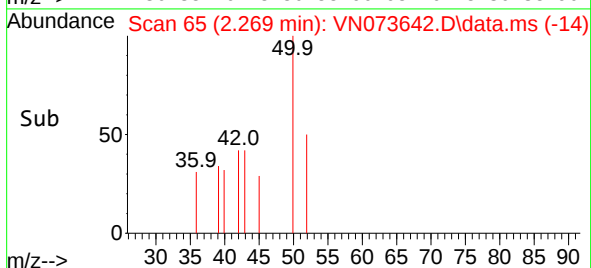
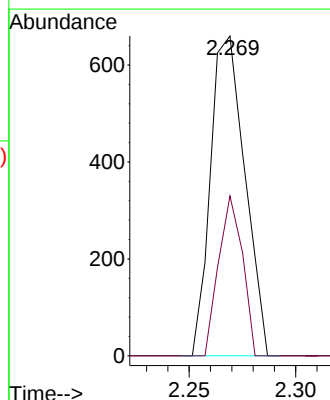
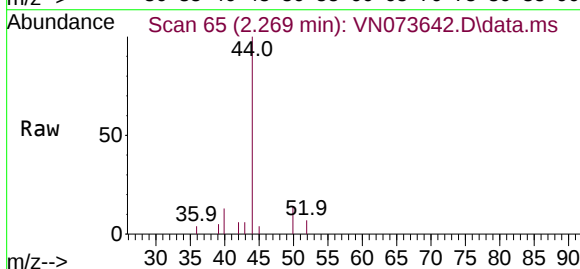
Instrument :
MSVOA_N
ClientSampleId :
PB146545ZHE#03

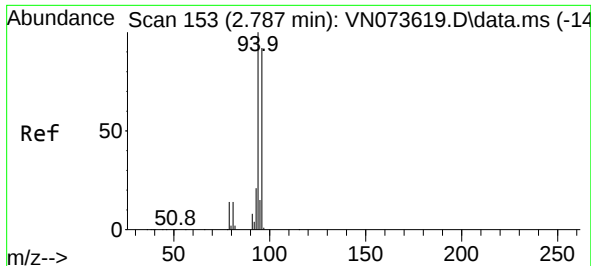
Tgt Ion:168 Resp: 342945
Ion Ratio Lower Upper
168 100
99 54.8 42.3 63.5



#3
Chloromethane
Concen: Below Cal
RT: 2.269 min Scan# 65
Delta R.T. 0.000 min
Lab File: VN073642.D
Acq: 29 Jul 2022 18:12

Tgt Ion: 50 Resp: 741
Ion Ratio Lower Upper
50 100
52 50.0 25.7 38.5#

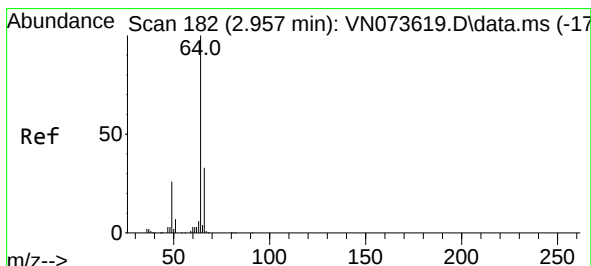
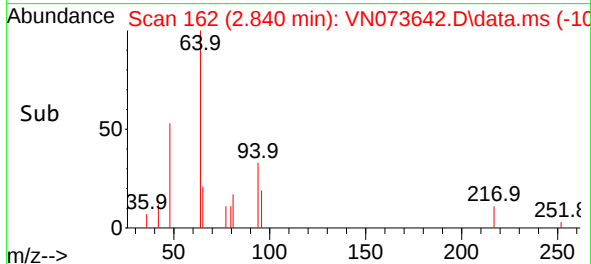
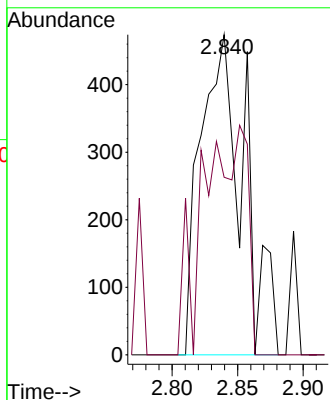
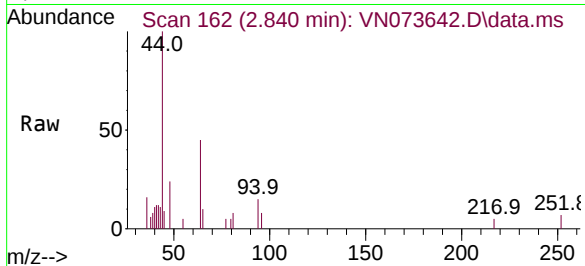




#5
Bromomethane
Concen: 0.325 ug/l
RT: 2.840 min Scan# 1095
Delta R.T. 0.053 min
Lab File: VN073642.D
Acq: 29 Jul 2022 18:12

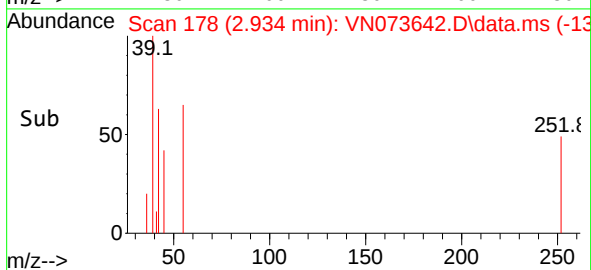
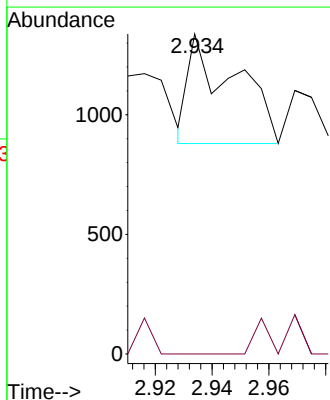
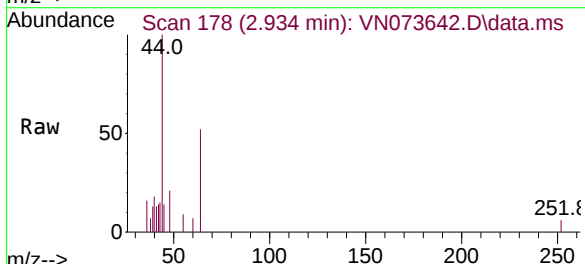
Instrument :
MSVOA_N
ClientSampleId :
PB146545ZHE#03

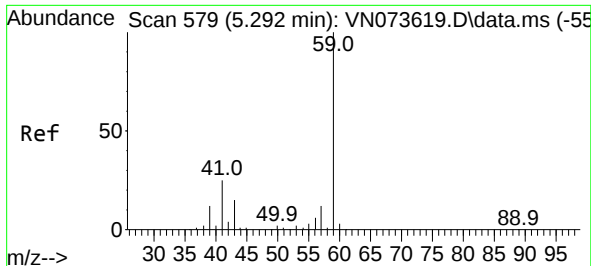
Tgt Ion: 94 Resp: 1095
Ion Ratio Lower Upper
94 100
96 55.5 76.0 114.0#



#6
Chloroethane
Concen: Below Cal
RT: 2.934 min Scan# 178
Delta R.T. -0.023 min
Lab File: VN073642.D
Acq: 29 Jul 2022 18:12

Tgt Ion: 64 Resp: 521
Ion Ratio Lower Upper
64 100
66 0.0 26.2 39.4#

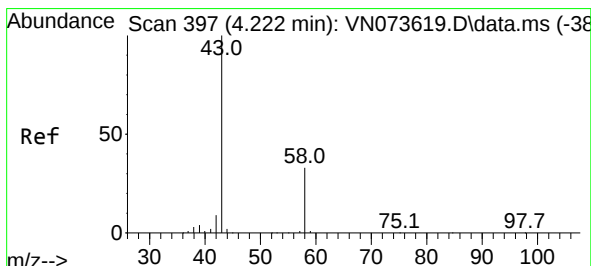
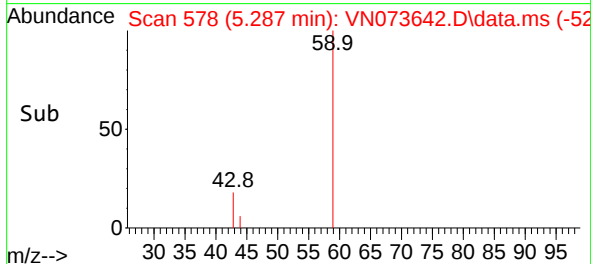
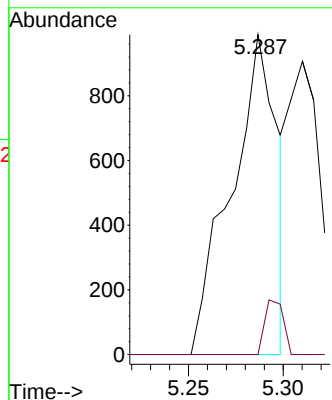
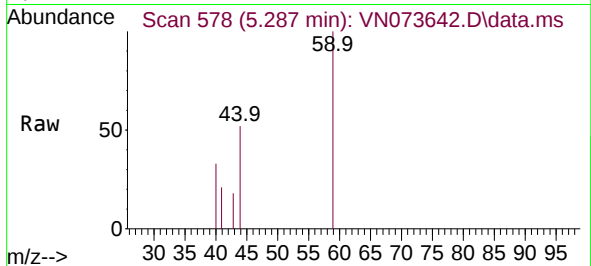




#11
Tert butyl alcohol
Concen: 1.842 ug/l
RT: 5.287 min Scan# 51
Delta R.T. -0.005 min
Lab File: VN073642.D
Acq: 29 Jul 2022 18:12

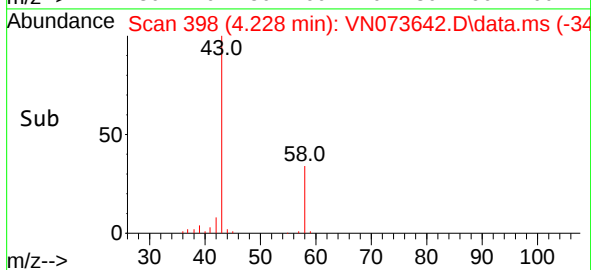
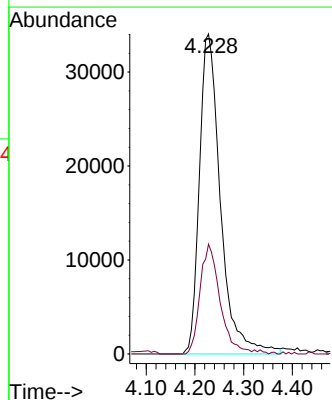
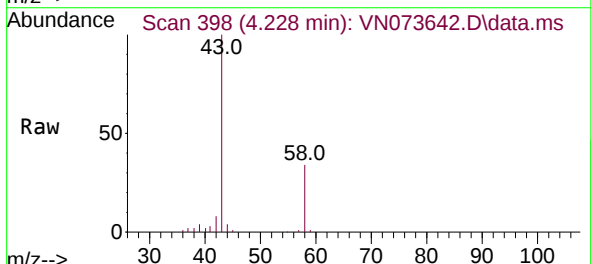
Instrument :
MSVOA_N
ClientSampleId :
PB146545ZHE#03

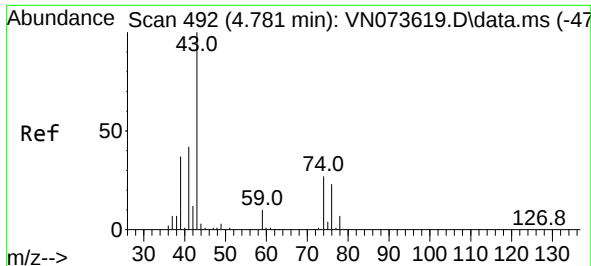
Tgt Ion: 59 Resp: 1660
Ion Ratio Lower Upper
59 100
57 6.9 8.3 12.5#



#16
Acetone
Concen: 45.587 ug/l
RT: 4.228 min Scan# 398
Delta R.T. 0.006 min
Lab File: VN073642.D
Acq: 29 Jul 2022 18:12

Tgt Ion: 43 Resp: 102331
Ion Ratio Lower Upper
43 100
58 34.3 26.0 39.0

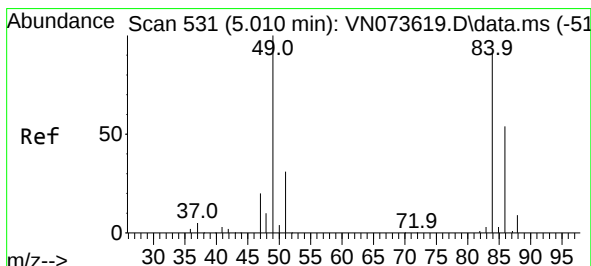
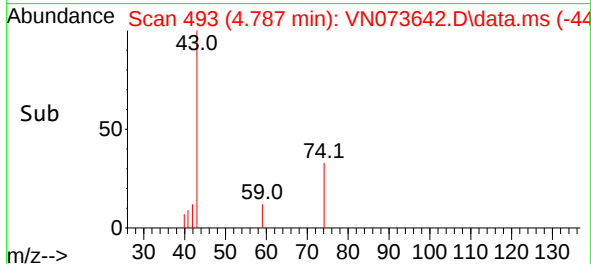
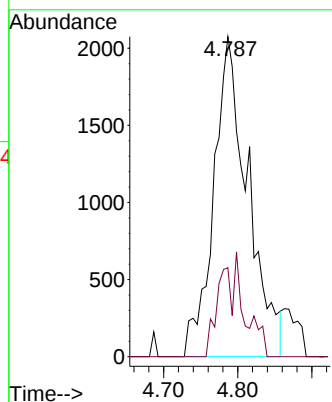
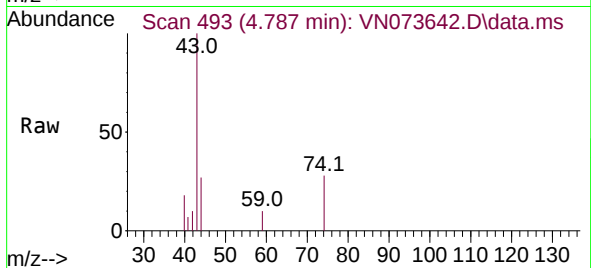




#18
Methyl Acetate
Concen: 1.195 ug/l
RT: 4.787 min Scan# 492
Delta R.T. 0.006 min
Lab File: VN073642.D
Acq: 29 Jul 2022 18:12

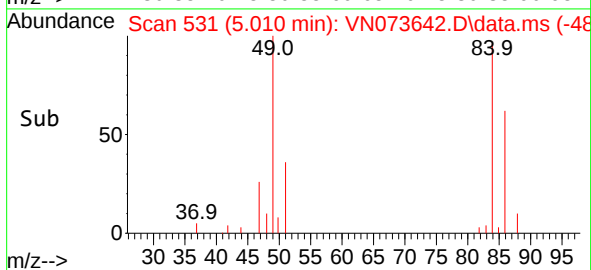
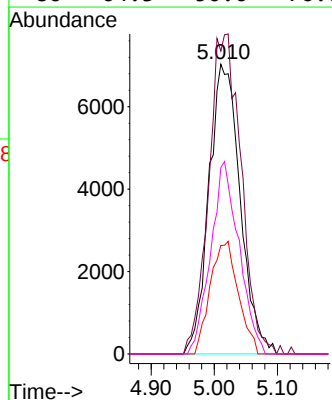
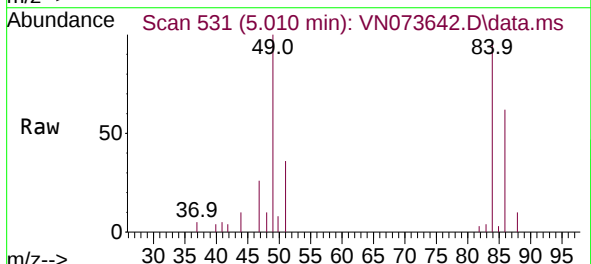
Instrument :
MSVOA_N
ClientSampleId :
PB146545ZHE#03

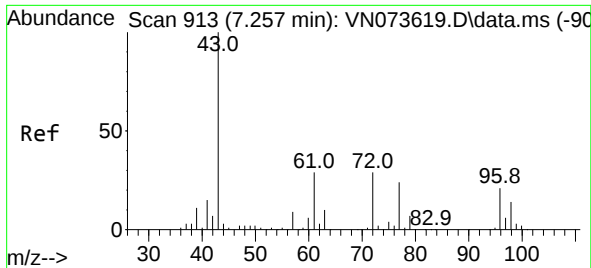
Tgt Ion: 43 Resp: 6671
Ion Ratio Lower Upper
43 100
74 12.3 21.6 32.4#



#20
Methylene Chloride
Concen: 4.666 ug/l
RT: 5.010 min Scan# 531
Delta R.T. 0.000 min
Lab File: VN073642.D
Acq: 29 Jul 2022 18:12

Tgt Ion: 84 Resp: 24201
Ion Ratio Lower Upper
84 100
49 104.5 88.3 132.5
51 37.5 28.2 42.2
86 64.3 50.6 76.0

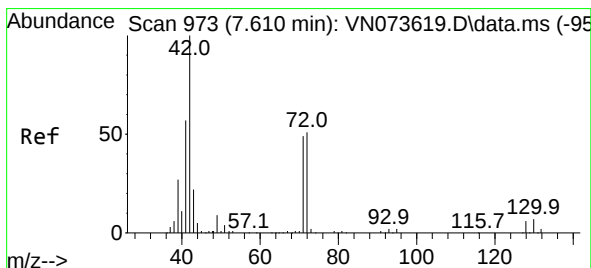
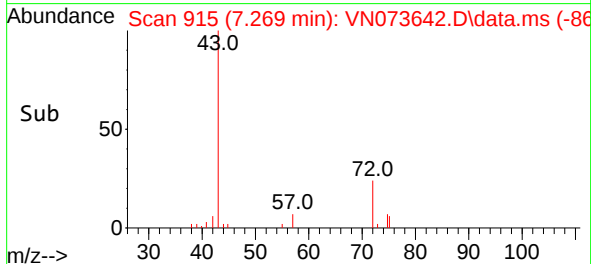
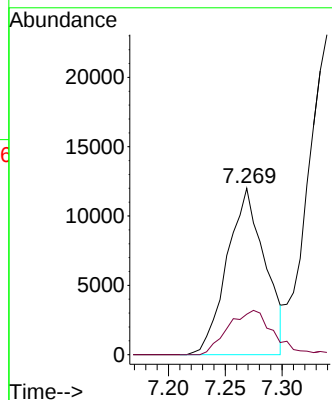
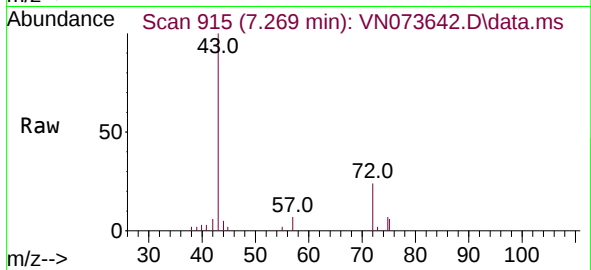




#25
2-Butanone
Concen: 7.981 ug/l
RT: 7.269 min Scan# 913
Delta R.T. 0.012 min
Lab File: VN073642.D
Acq: 29 Jul 2022 18:12

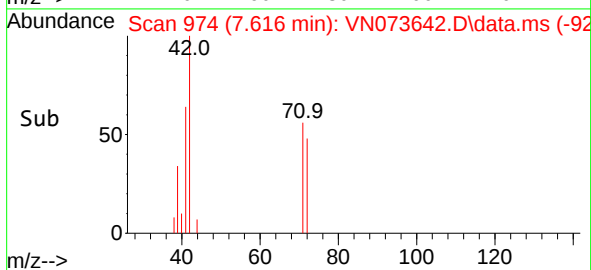
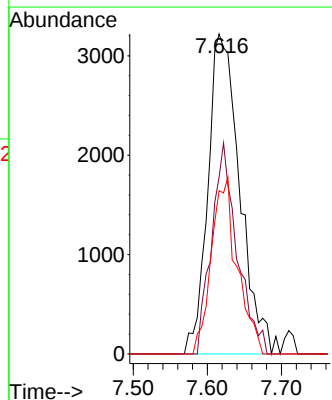
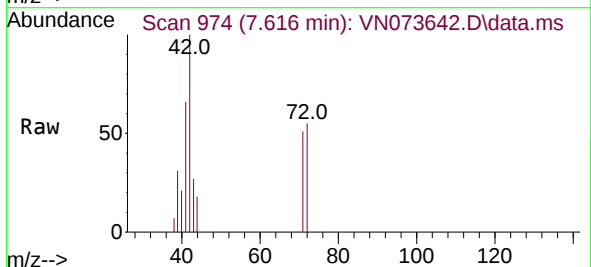
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MSVOA_N
ClientSampleId :
PB146545ZHE#03

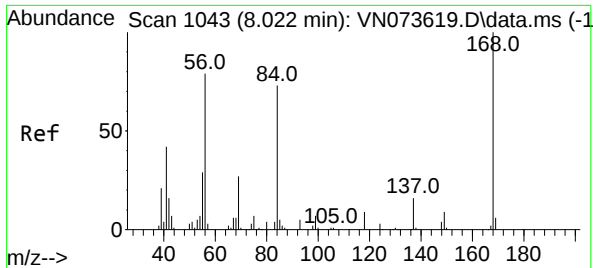
Tgt Ion: 43 Resp: 27821
Ion Ratio Lower Upper
43 100
72 24.4 23.7 35.5



#29
Tetrahydrofuran
Concen: 4.372 ug/l
RT: 7.616 min Scan# 974
Delta R.T. 0.006 min
Lab File: VN073642.D
Acq: 29 Jul 2022 18:12

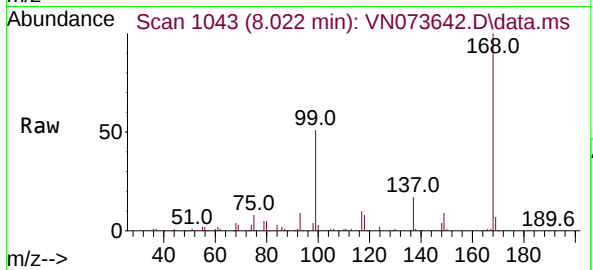
Tgt Ion: 42 Resp: 9636
Ion Ratio Lower Upper
42 100
72 52.9 39.7 59.5
71 44.6 36.6 55.0



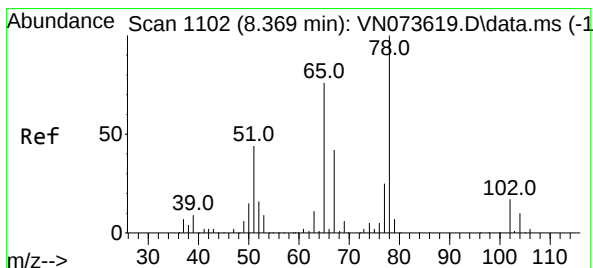
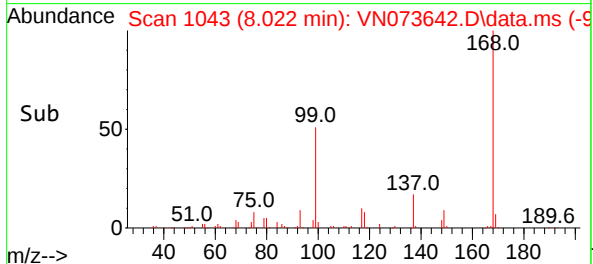
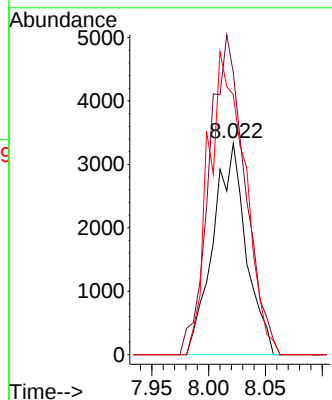


#31
Cyclohexane
Concen: 1.079 ug/l
RT: 8.022 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VN073642.D
Acq: 29 Jul 2022 18:12

Instrument :
MSVOA_N
ClientSampleId :
PB146545ZHE#03

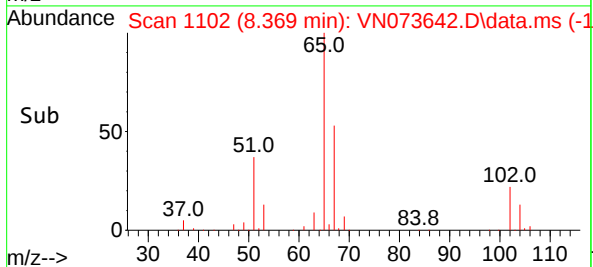
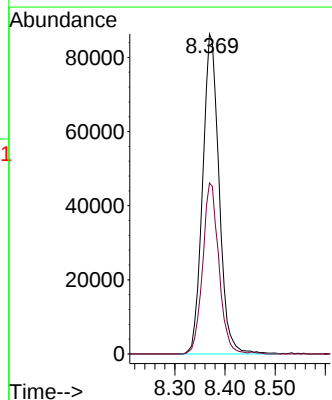
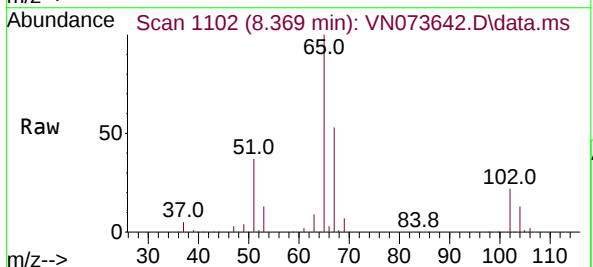


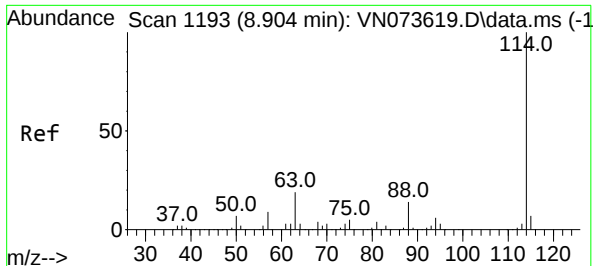
Tgt Ion: 56 Resp: 6714
Ion Ratio Lower Upper
56 100
69 133.3 27.8 41.8#
84 123.0 76.9 115.3#



#33
1,2-Dichloroethane-d4
Concen: 47.019 ug/l
RT: 8.369 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VN073642.D
Acq: 29 Jul 2022 18:12

Tgt Ion: 65 Resp: 196507
Ion Ratio Lower Upper
65 100
67 52.6 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: VN073642.D

Acq: 29 Jul 2022 18:12

Instrument :

MSVOA_N

ClientSampleId :

PB146545ZHE#03

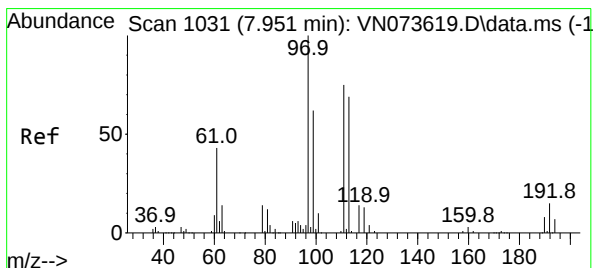
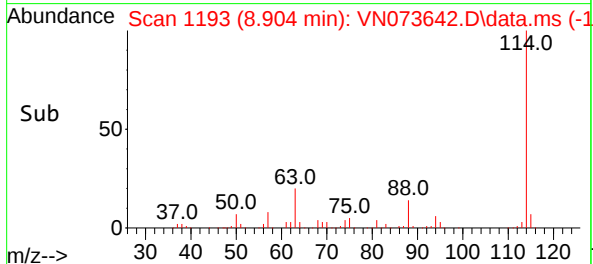
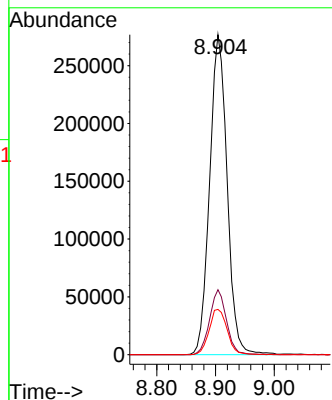
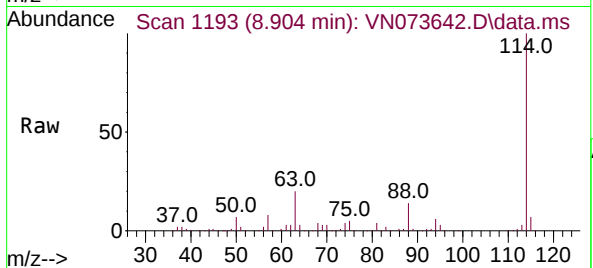
Tgt Ion:114 Resp: 572098

Ion Ratio Lower Upper

114 100

63 20.3 0.0 40.0

88 14.2 0.0 32.6



#35

Dibromofluoromethane

Concen: 50.971 ug/l

RT: 7.951 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VN073642.D

Acq: 29 Jul 2022 18:12

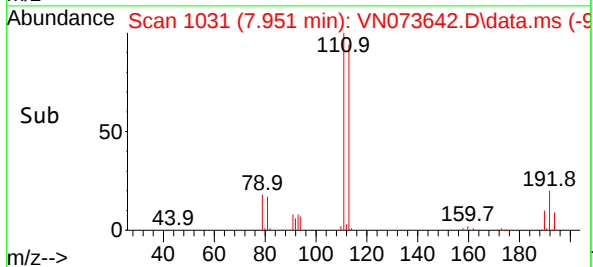
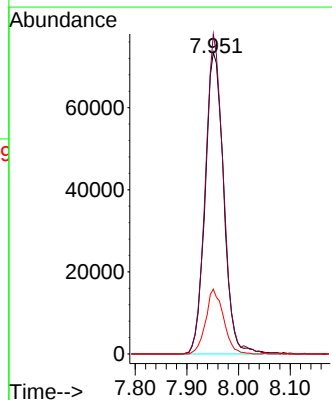
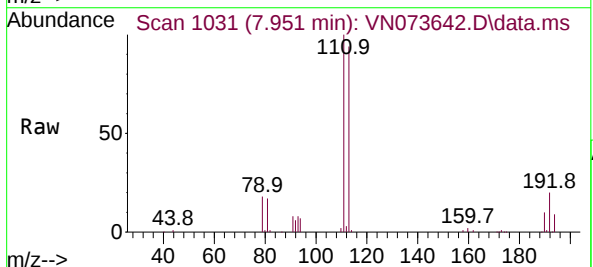
Tgt Ion:113 Resp: 183110

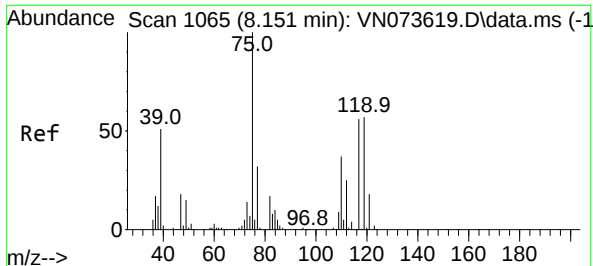
Ion Ratio Lower Upper

113 100

111 103.1 81.4 122.0

192 20.6 17.0 25.6

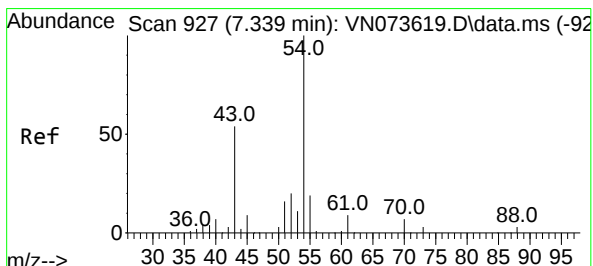
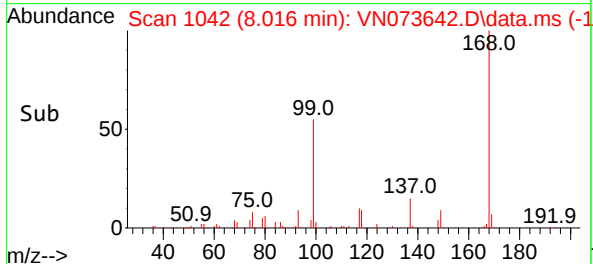
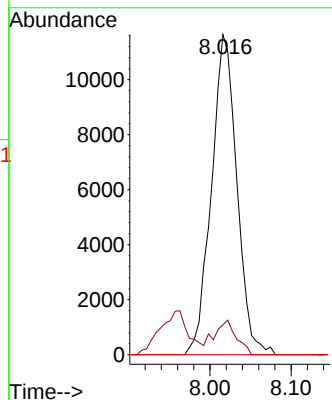
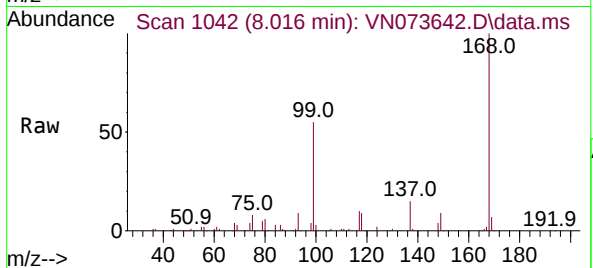




#36
1,1-Dichloropropene
Concen: 4.951 ug/l
RT: 8.016 min Scan# 1065
Delta R.T. -0.135 min
Lab File: VN073642.D
Acq: 29 Jul 2022 18:12

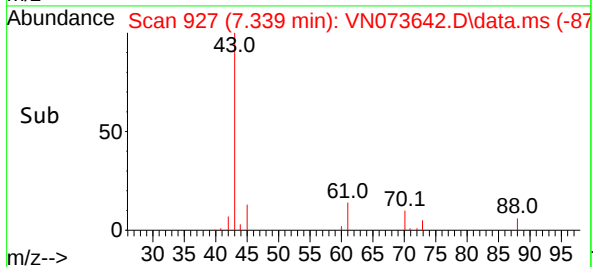
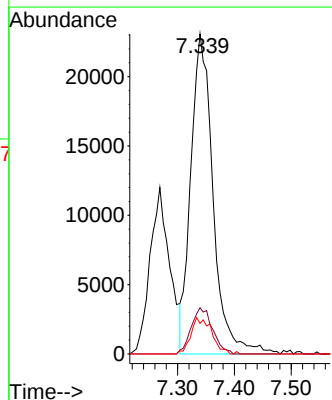
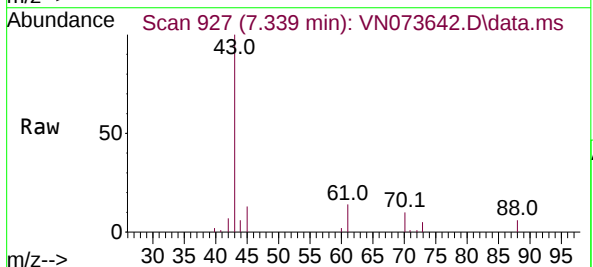
Instrument :
MSVOA_N
ClientSampleId :
PB146545ZHE#03

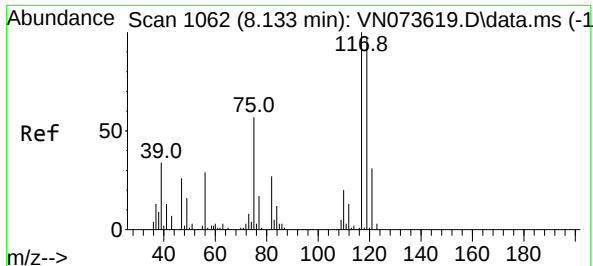
Tgt Ion: 75 Resp: 25348
Ion Ratio Lower Upper
75 100
110 9.3 18.3 54.8#
77 0.0 25.1 37.7#



#37
Ethyl Acetate
Concen: 9.326 ug/l
RT: 7.339 min Scan# 927
Delta R.T. 0.000 min
Lab File: VN073642.D
Acq: 29 Jul 2022 18:12

Tgt Ion: 43 Resp: 62886
Ion Ratio Lower Upper
43 100
61 13.8 11.8 17.6
70 10.5 9.3 13.9

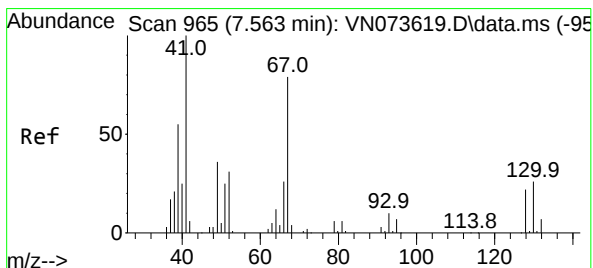
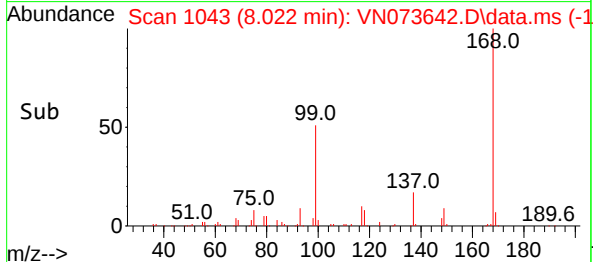
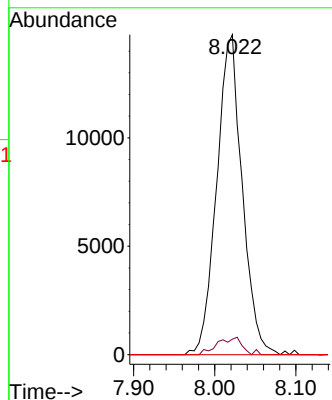
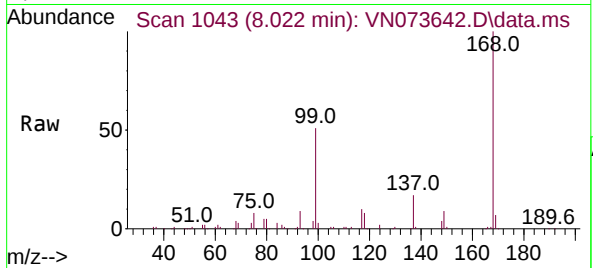




#38
Carbon Tetrachloride
Concen: 6.192 ug/l
RT: 8.022 min Scan# 1043
Delta R.T. -0.112 min
Lab File: VN073642.D
Acq: 29 Jul 2022 18:12

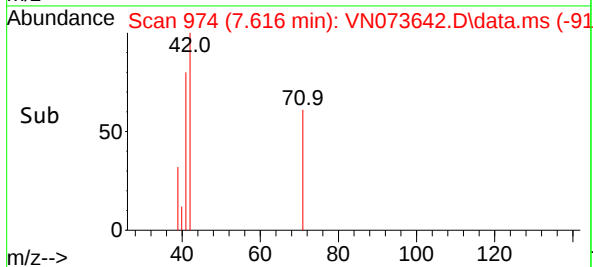
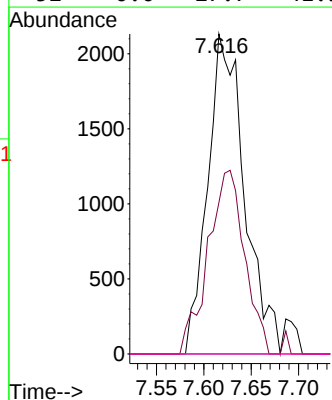
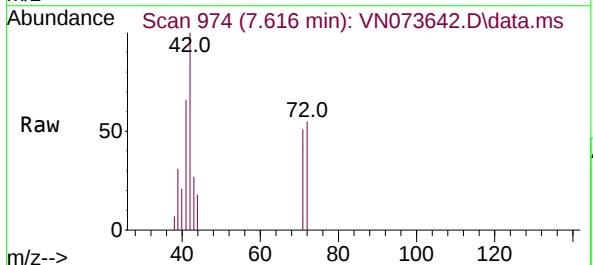
Instrument :
MSVOA_N
ClientSampleId :
PB146545ZHE#03

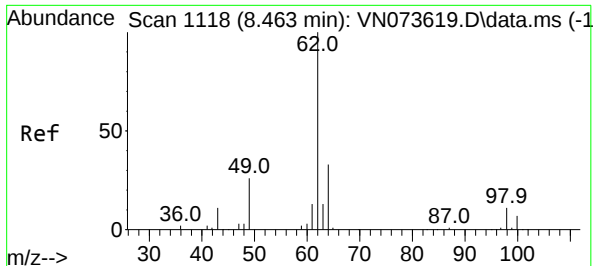
Tgt Ion:117 Resp: 32198
Ion Ratio Lower Upper
117 100
119 4.9 75.8 113.8#
121 0.0 24.6 37.0#



#41
Methacrylonitrile
Concen: 1.889 ug/l
RT: 7.616 min Scan# 974
Delta R.T. 0.053 min
Lab File: VN073642.D
Acq: 29 Jul 2022 18:12

Tgt Ion: 41 Resp: 5765
Ion Ratio Lower Upper
41 100
39 57.0 48.6 73.0
67 0.0 73.4 110.2#
52 0.0 27.7 41.5#





#42

1,2-Dichloroethane

Concen: 0.278 ug/l

RT: 8.486 min Scan# 1118

Delta R.T. 0.024 min

Lab File: VN073642.D

Acq: 29 Jul 2022 18:12

Instrument :

MSVOA_N

ClientSampleId :

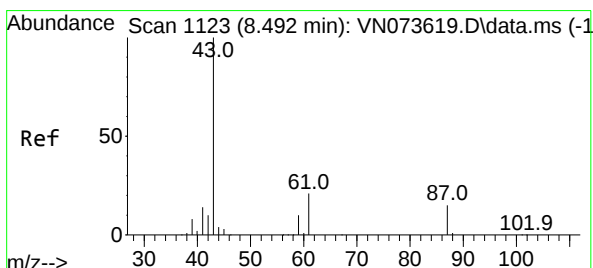
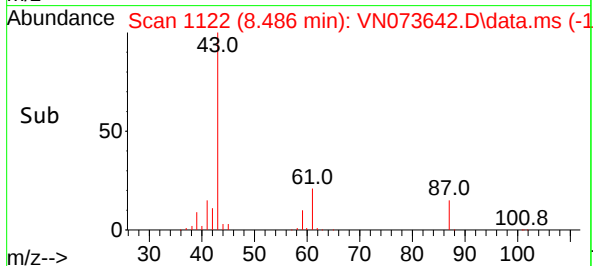
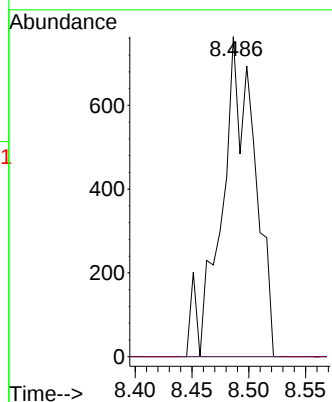
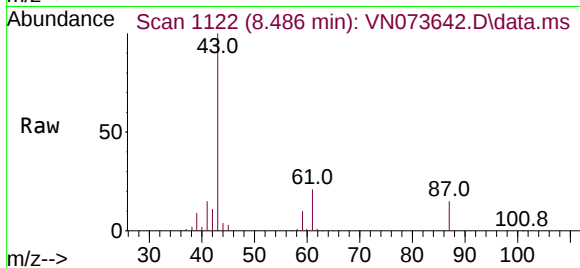
PB146545ZHE#03

Tgt Ion: 62 Resp: 1559

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.4



#43

Isopropyl Acetate

Concen: 26.096 ug/l

RT: 8.498 min Scan# 1124

Delta R.T. 0.006 min

Lab File: VN073642.D

Acq: 29 Jul 2022 18:12

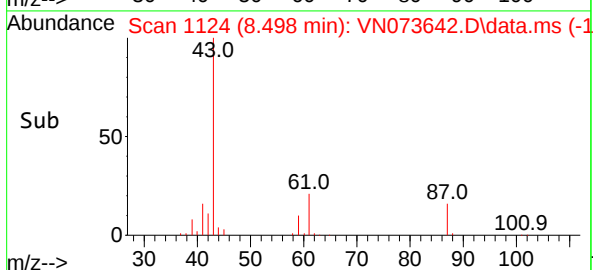
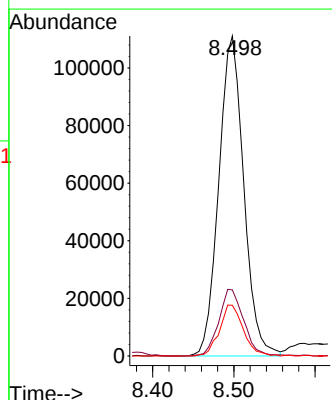
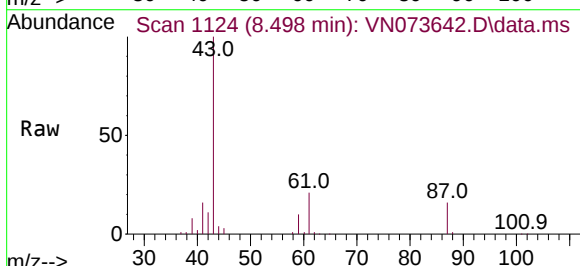
Tgt Ion: 43 Resp: 237673

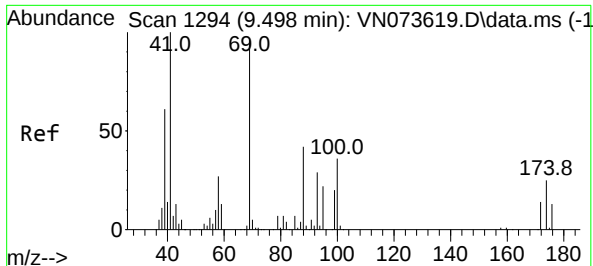
Ion Ratio Lower Upper

43 100

61 20.8 21.9 32.9#

87 15.2 12.0 18.0

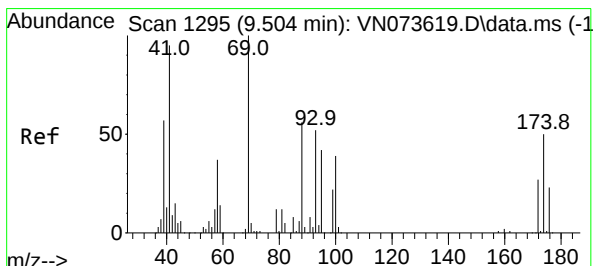
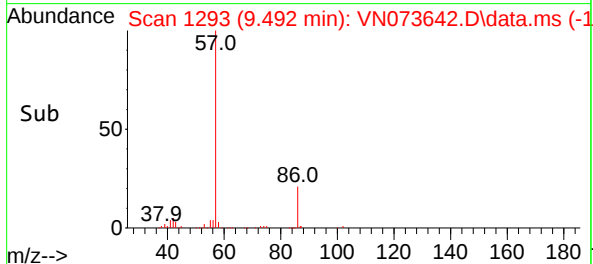
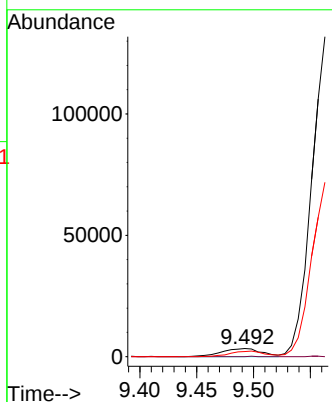
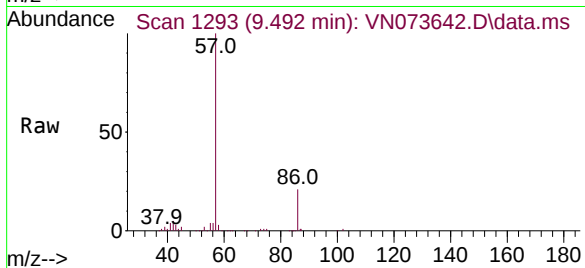




#48
Methyl methacrylate
Concen: 2.065 ug/l
RT: 9.492 min Scan# 1293
Delta R.T. -0.006 min
Lab File: VN073642.D
Acq: 29 Jul 2022 18:12

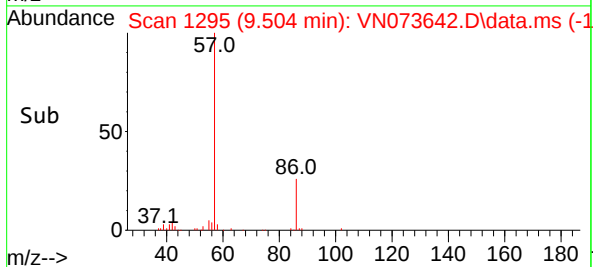
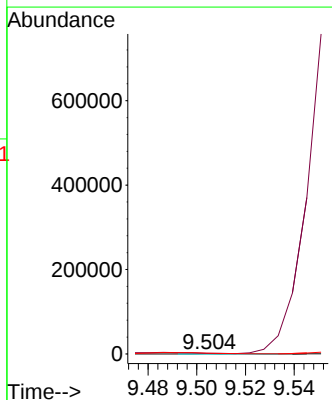
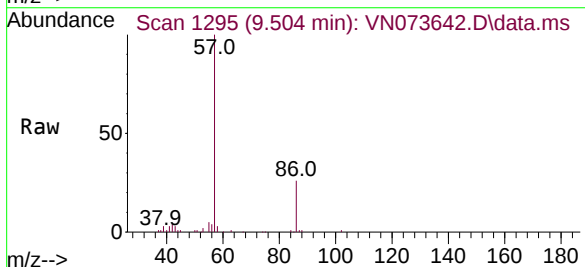
Instrument :
MSVOA_N
ClientSampleId :
PB146545ZHE#03

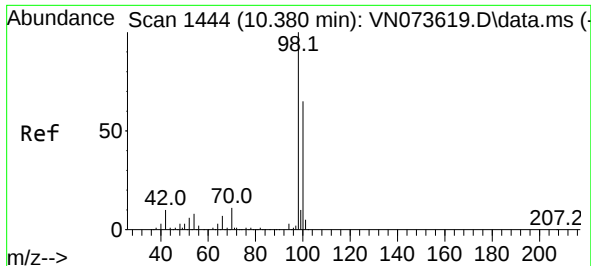
Tgt Ion: 41 Resp: 8231
Ion Ratio Lower Upper
41 100
69 1.0 74.7 112.1#
39 59.5 45.6 68.4



#49
1,4-Dioxane
Concen: 3.987 ug/l
RT: 9.504 min Scan# 1295
Delta R.T. 0.000 min
Lab File: VN073642.D
Acq: 29 Jul 2022 18:12

Tgt Ion: 88 Resp: 448
Ion Ratio Lower Upper
88 100
43 0.0 20.2 30.4#
58 1460.3 54.2 81.4#

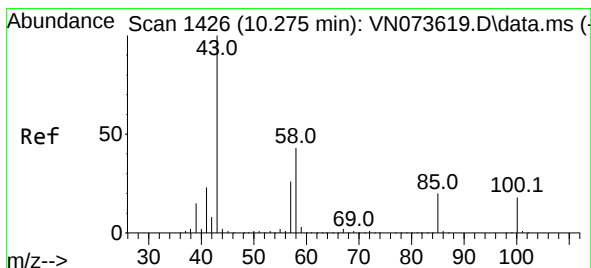
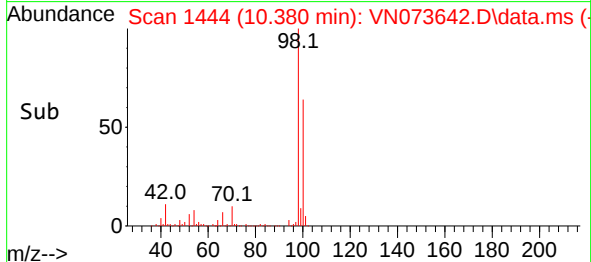
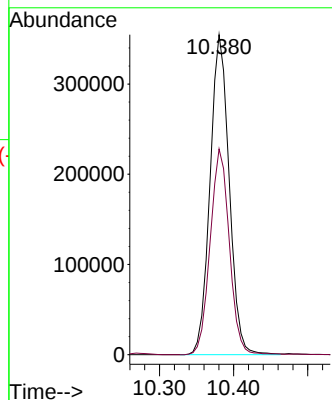
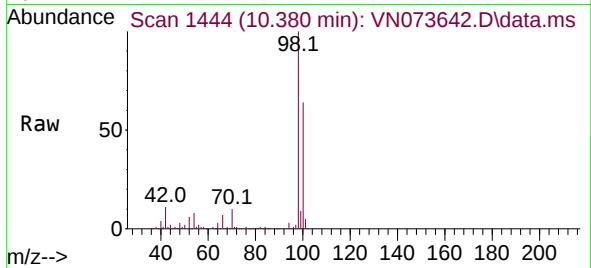




#50
Toluene-d8
Concen: 45.001 ug/l
RT: 10.380 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN073642.D
Acq: 29 Jul 2022 18:12

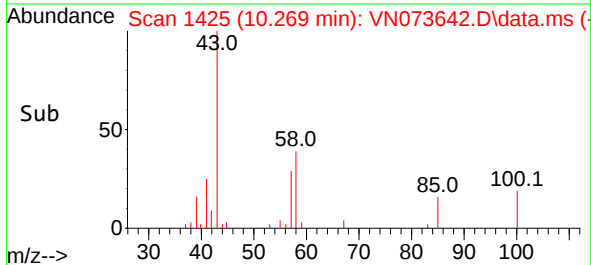
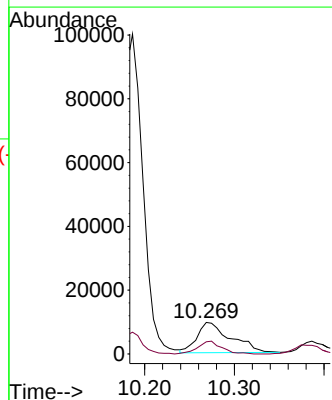
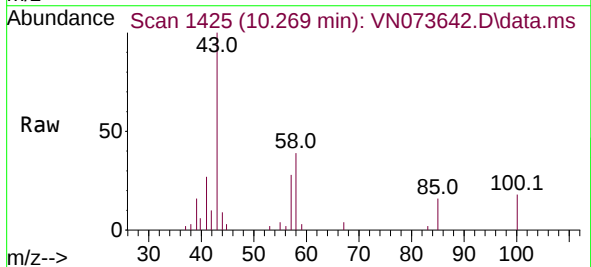
Instrument :
MSVOA_N
ClientSampleId :
PB146545ZHE#03

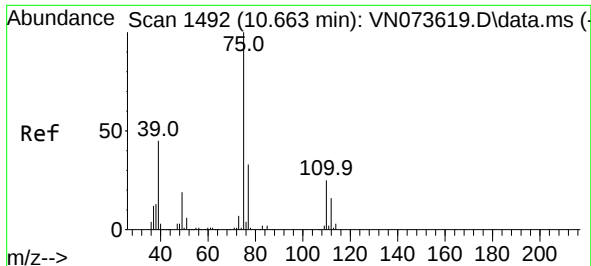
Tgt Ion: 98 Resp: 636166
Ion Ratio Lower Upper
98 100
100 64.5 52.6 78.8



#51
4-Methyl-2-Pentanone
Concen: 3.799 ug/l
RT: 10.269 min Scan# 1425
Delta R.T. -0.006 min
Lab File: VN073642.D
Acq: 29 Jul 2022 18:12

Tgt Ion: 43 Resp: 24814
Ion Ratio Lower Upper
43 100
58 29.8 34.1 51.1#

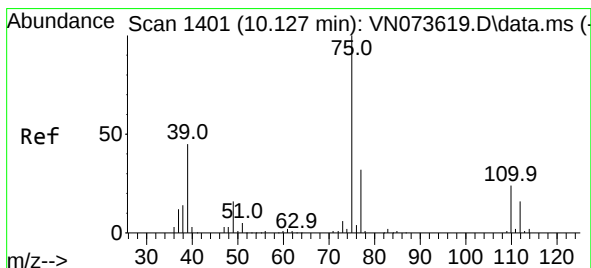
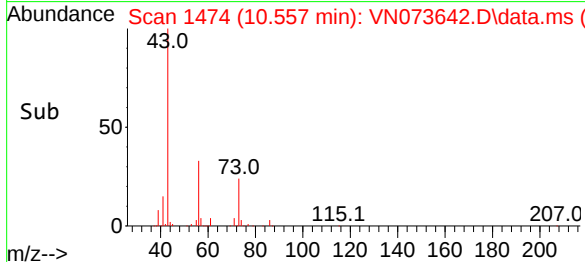
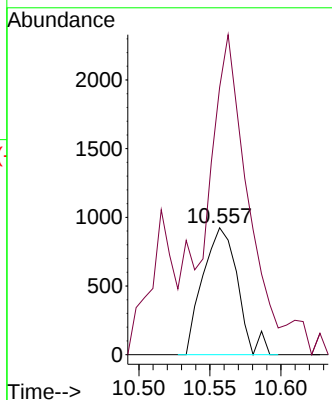
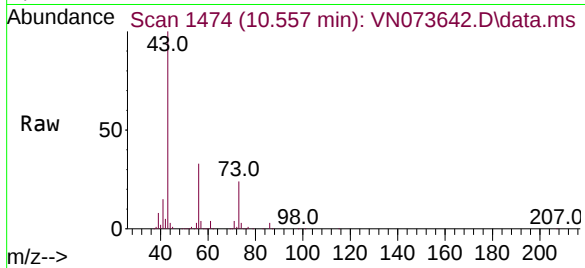




#53
t-1,3-Dichloropropene
Concen: 0.288 ug/l
RT: 10.557 min Scan# 1410
Delta R.T. -0.106 min
Lab File: VN073642.D
Acq: 29 Jul 2022 18:12

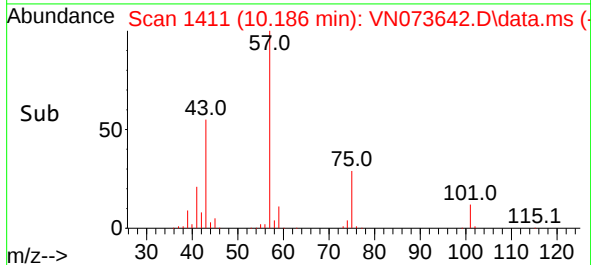
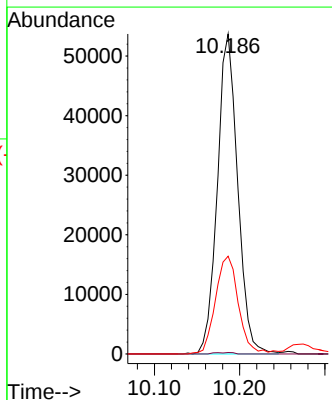
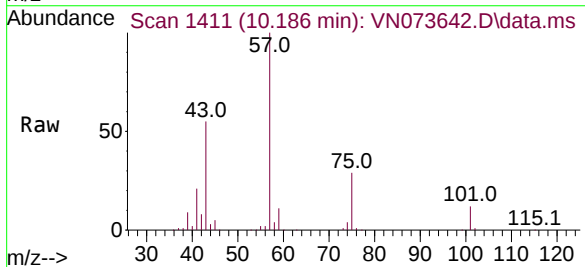
Instrument :
MSVOA_N
ClientSampleId :
PB146545ZHE#03

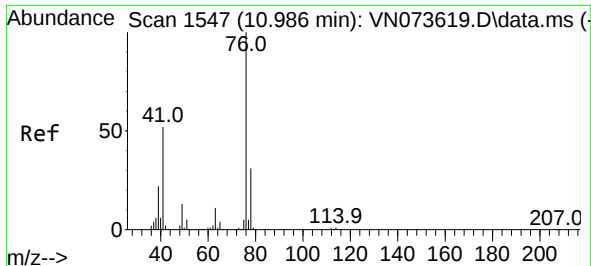
Tgt Ion: 75 Resp: 1575
Ion Ratio Lower Upper
75 100
77 189.7 25.6 38.4#



#54
cis-1,3-Dichloropropene
Concen: 14.429 ug/l
RT: 10.186 min Scan# 1411
Delta R.T. 0.059 min
Lab File: VN073642.D
Acq: 29 Jul 2022 18:12

Tgt Ion: 75 Resp: 88922
Ion Ratio Lower Upper
75 100
77 0.5 25.2 37.8#
39 30.5 35.7 53.5#





#57

1,3-Dichloropropane

Concen: 1.758 ug/l

RT: 11.033 min Scan# 11

Delta R.T. 0.047 min

Lab File: VN073642.D

Acq: 29 Jul 2022 18:12

Instrument :

MSVOA_N

ClientSampleId :

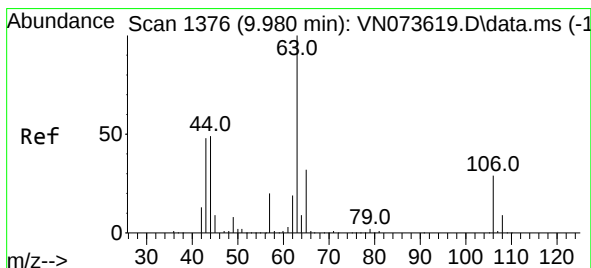
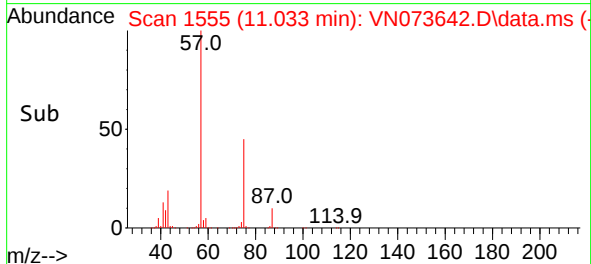
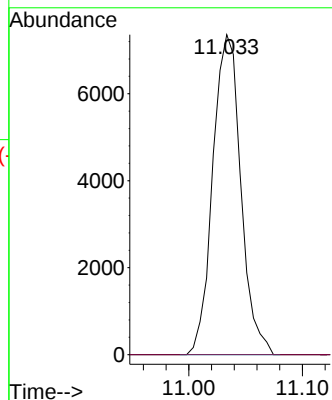
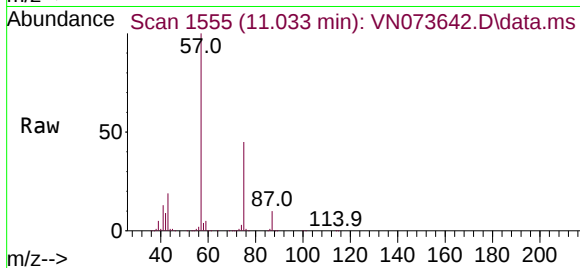
PB146545ZHE#03

Tgt Ion: 76 Resp: 12629

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.2#



#58

2-Chloroethyl Vinyl ether

Concen: 9.963 ug/l

RT: 10.186 min Scan# 1411

Delta R.T. 0.206 min

Lab File: VN073642.D

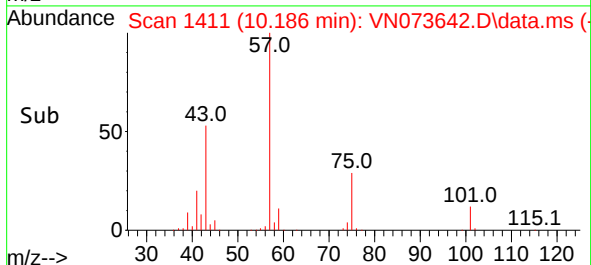
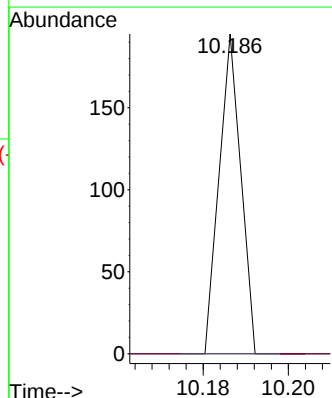
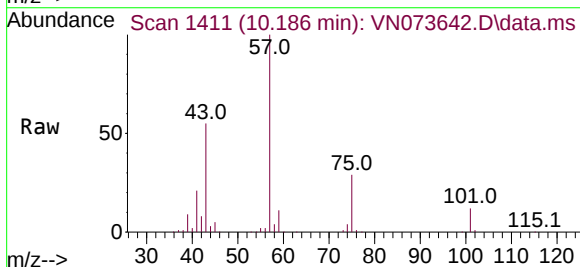
Acq: 29 Jul 2022 18:12

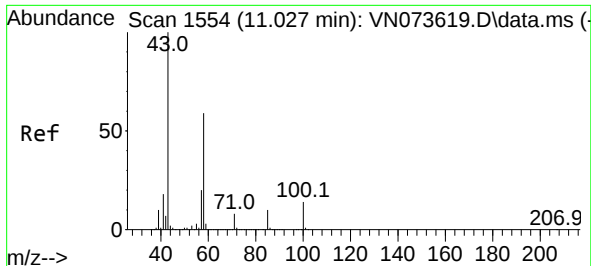
Tgt Ion: 63 Resp: 69

Ion Ratio Lower Upper

63 100

106 0.0 24.6 36.8#

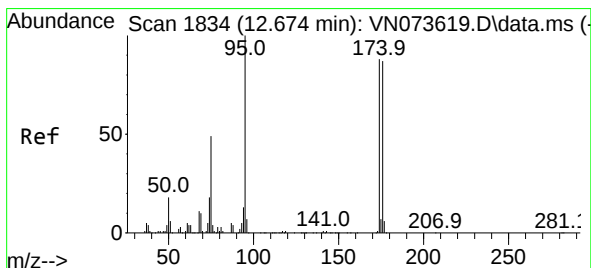
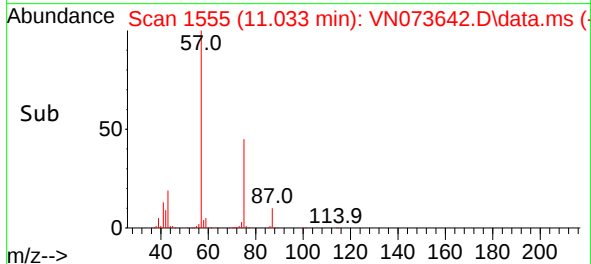
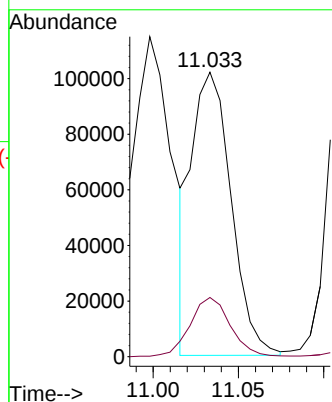
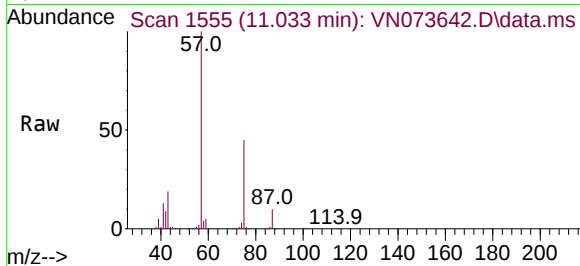




#59
2-Hexanone
Concen: 33.212 ug/l
RT: 11.033 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN073642.D
Acq: 29 Jul 2022 18:12

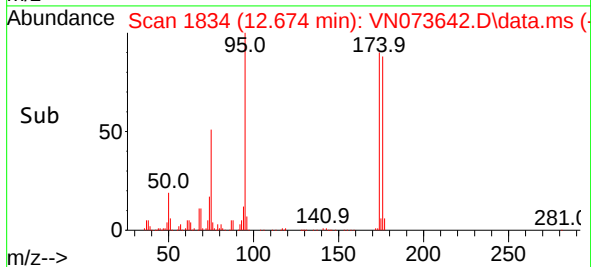
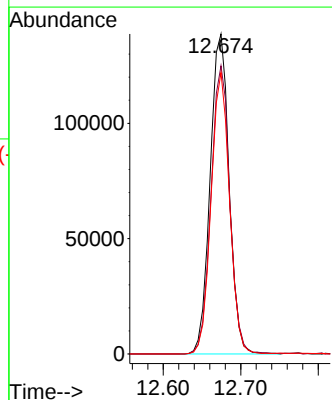
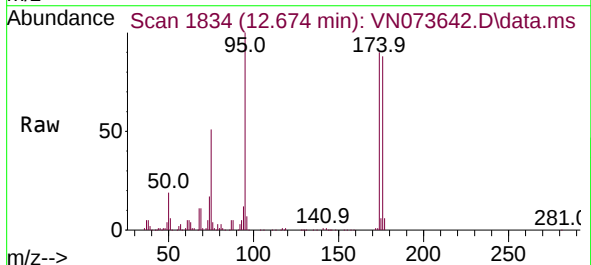
Instrument :
MSVOA_N
ClientSampleId :
PB146545ZHE#03

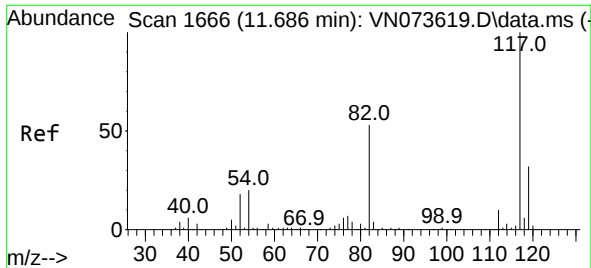
Tgt Ion: 43 Resp: 164373
Ion Ratio Lower Upper
43 100
58 21.4 29.7 89.1#



#62
4-Bromofluorobenzene
Concen: 50.108 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.000 min
Lab File: VN073642.D
Acq: 29 Jul 2022 18:12

Tgt Ion: 95 Resp: 236757
Ion Ratio Lower Upper
95 100
174 89.2 0.0 167.6
176 85.4 0.0 163.4

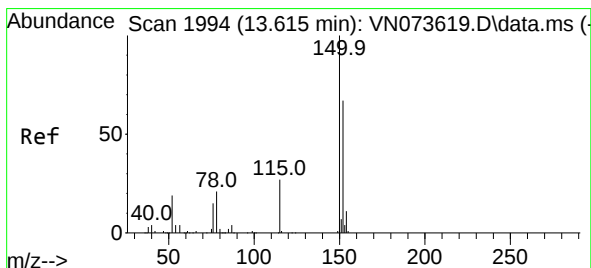
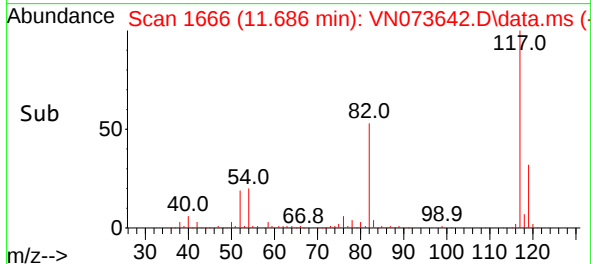
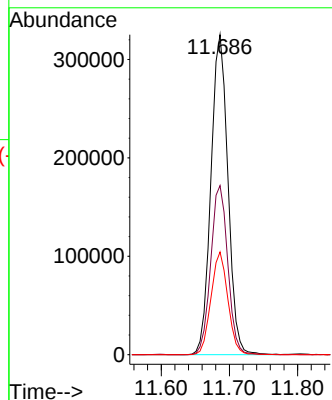
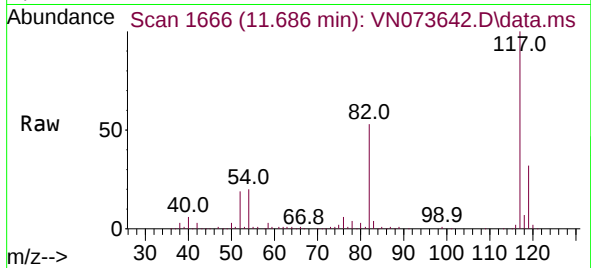




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.686 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN073642.D
Acq: 29 Jul 2022 18:12

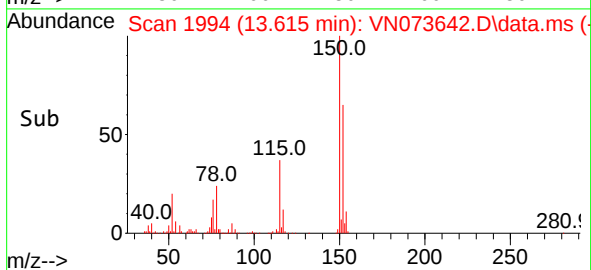
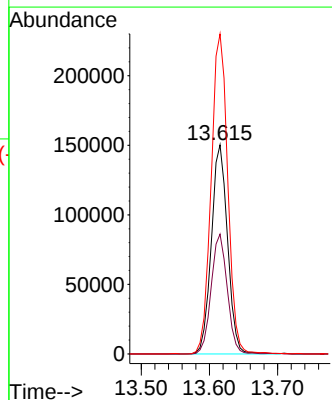
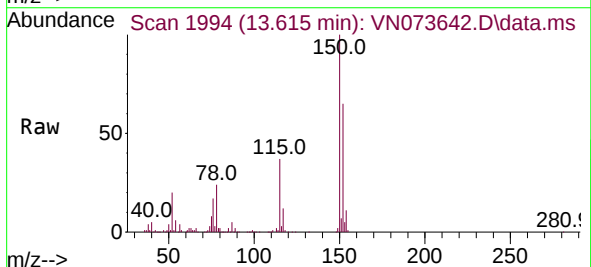
Instrument :
MSVOA_N
ClientSampleId :
PB146545ZHE#03

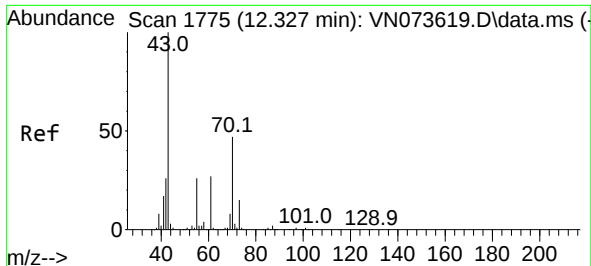
Tgt Ion:117 Resp: 564374
Ion Ratio Lower Upper
117 100
82 52.9 44.2 66.2
119 32.1 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.615 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VN073642.D
Acq: 29 Jul 2022 18:12

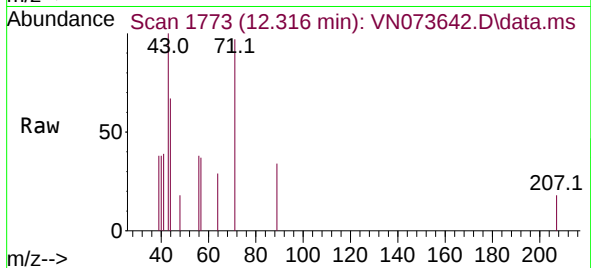
Tgt Ion:152 Resp: 249365
Ion Ratio Lower Upper
152 100
115 56.7 28.9 86.7
150 156.5 0.0 356.2



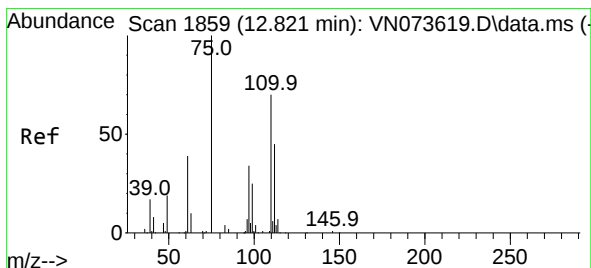
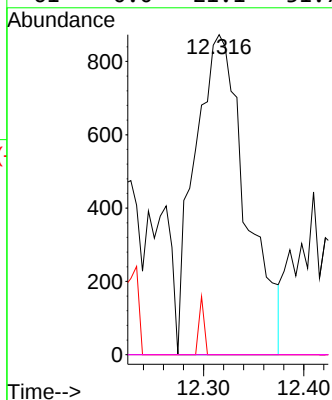
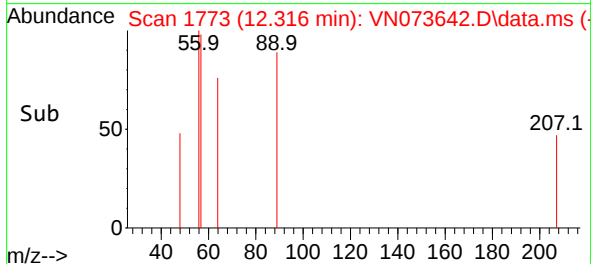


#74
N-amy1 acetate
Concen: 0.447 ug/l
RT: 12.316 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN073642.D
Acq: 29 Jul 2022 18:12

Instrument :
MSVOA_N
ClientSampleId :
PB146545ZHE#03

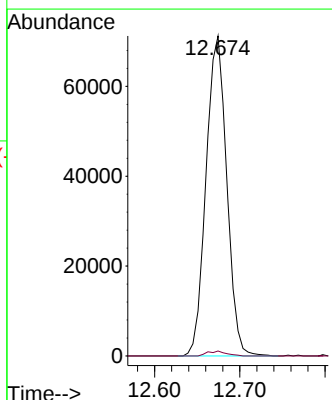
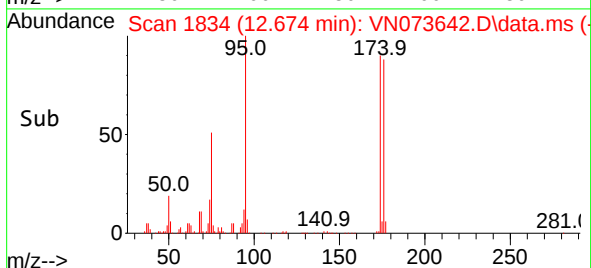
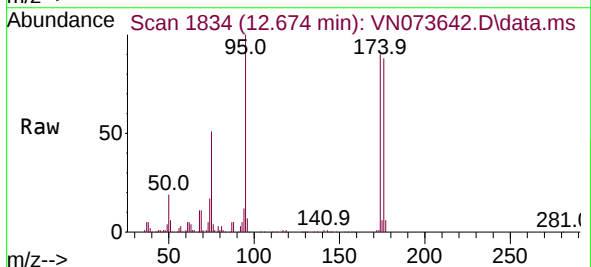


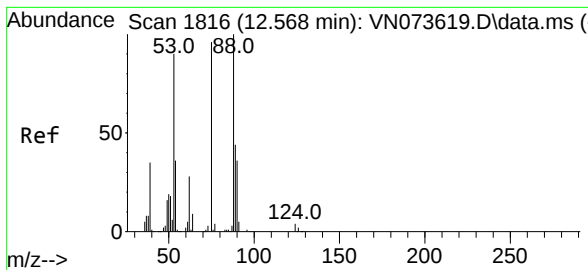
Tgt Ion: 43	Resp: 3083
Ion Ratio	Lower Upper
43 100	
70 0.0	39.0 58.4#
55 0.0	21.1 31.7#
61 0.0	21.1 31.7#



#76
1,2,3-Trichloropropane
Concen: 24.769 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. -0.147 min
Lab File: VN073642.D
Acq: 29 Jul 2022 18:12

Tgt Ion: 75	Resp: 120579
Ion Ratio	Lower Upper
75 100	
77 1.4	98.5 295.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 62.664 ug/l
 RT: 12.674 min Scan# 11
 Delta R.T. 0.106 min
 Lab File: VN073642.D
 Acq: 29 Jul 2022 18:12

Instrument :
 MSVOA_N
 ClientSampleId :
 PB146545ZHE#03

Tgt Ion: 75 Resp: 120579
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.0 117.0#
 89 0.0 37.2 55.8#

