

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU110921\
 Data File : VU045667.D
 Acq On : 09 Nov 2021 18:37
 Operator : SY/MD
 Sample : M4594-06
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 45BR-20211108

Quant Time: Nov 22 07:30:20 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U110521W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 05 13:35:16 2021
 Response via : Initial Calibration

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

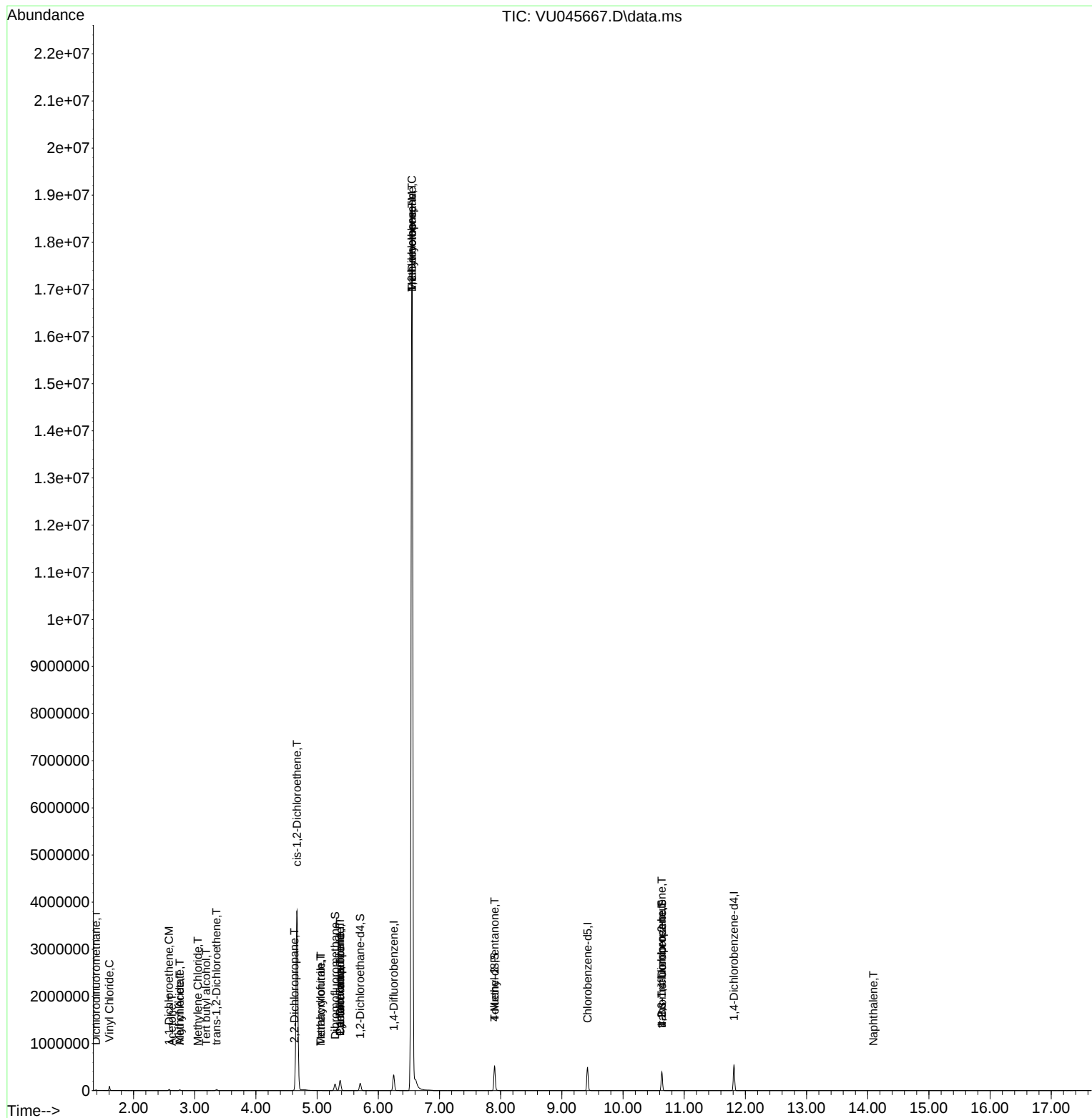
Internal Standards						
1) Pentafluorobenzene	5.375	168	141840	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	266008	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	265580	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.812	152	134503	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.703	65	114615	53.956	ug/l	0.00
Spiked Amount	50.000	Range 78 - 117	Recovery	= 107.920%		
35) Dibromofluoromethane	5.292	113	89374	50.323	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 100.640%		
50) Toluene-d8	7.899	98	344363	52.144	ug/l	0.00
Spiked Amount	50.000	Range 92 - 112	Recovery	= 104.280%		
62) 4-Bromofluorobenzene	10.636	95	132193	49.918	ug/l	0.00
Spiked Amount	50.000	Range 83 - 123	Recovery	= 99.840%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.385	85	6914	3.760	ug/l	97
4) Vinyl Chloride	1.604	62	57962	28.278	ug/l	99
11) Tert butyl alcohol	3.186	59	1401	3.332	ug/l #	72
12) 1,1-Dichloroethene	2.581	96	8357	5.355	ug/l	97
14) Allyl chloride	2.755	41	1752	0.629	ug/l #	68
16) Acetone	2.626	43	2474	2.288	ug/l	94
18) Methyl Acetate	2.755	43	4639	1.260	ug/l #	50
20) Methylene Chloride	3.047	84	412	0.219	ug/l	94
21) trans-1,2-Dichloroethene	3.356	96	9502	5.853	ug/l	91
26) 2,2-Dichloropropane	4.629	77	546	0.202	ug/l #	53
27) cis-1,2-Dichloroethene	4.671	96	1977172	1036.914	ug/l	90
29) Tetrahydrofuran	5.057	42	622	0.678	ug/l #	69
31) Cyclohexane	5.375	56	3255	1.050	ug/l #	1
36) 1,1-Dichloropropene	5.375	75	12486	4.814	ug/l #	51
38) Carbon Tetrachloride	5.375	117	15367	5.877	ug/l #	15
39) Methylcyclohexane	6.549	83	84573	26.578	ug/l #	1
41) Methacrylonitrile	5.060	41	734	0.466	ug/l #	26
44) Trichloroethene	6.549	130	6276232	3414.394	ug/l	96
45) 1,2-Dichloropropane	6.549	63	22376	11.012	ug/l #	1
51) 4-Methyl-2-Pentanone	7.899	43	1321	0.439	ug/l #	1
76) 1,2,3-Trichloropropane	10.632	75	68826	16.874	ug/l #	42
81) trans-1,4-Dichloro-2-b...	10.632	75	68826	54.961	ug/l #	12
95) Naphthalene	14.092	128	261	1.052	ug/l #	69

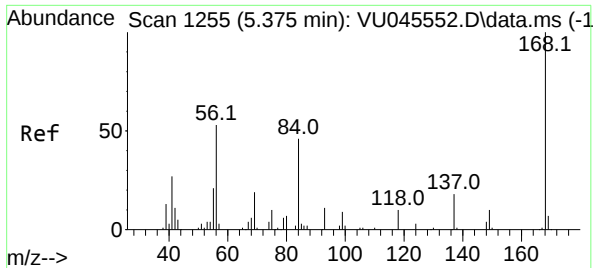
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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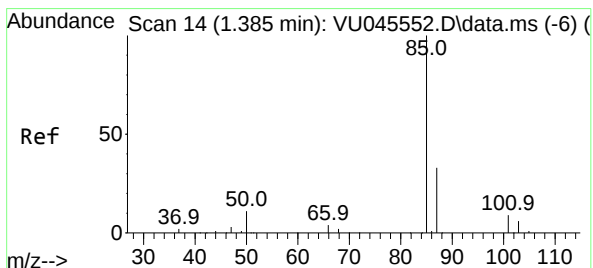
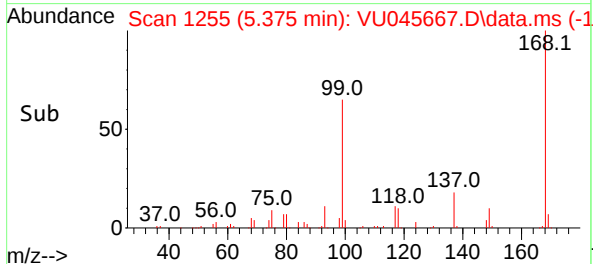
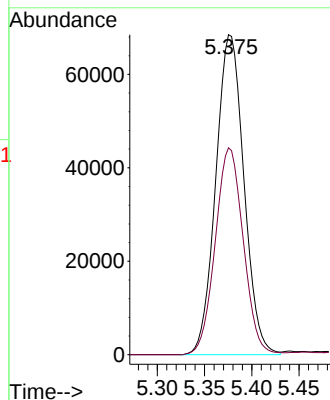
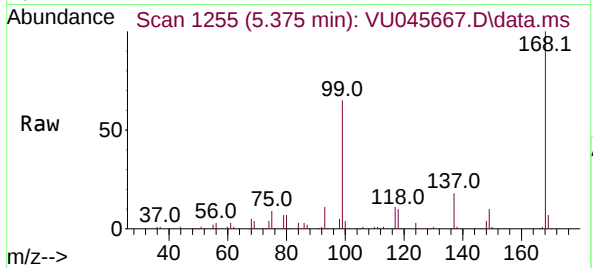




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.375 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU045667.D
Acq: 09 Nov 2021 18:37

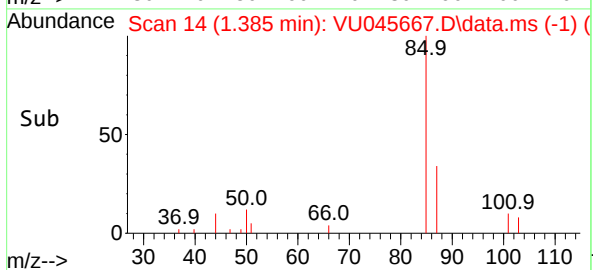
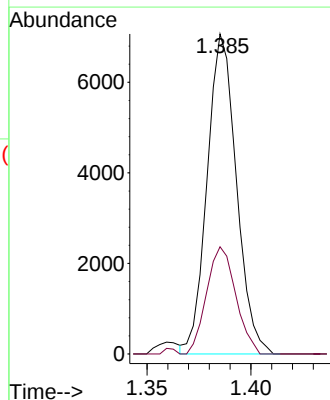
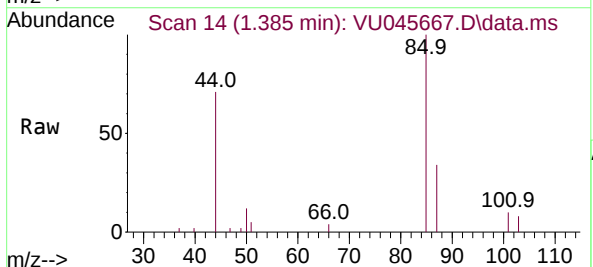
Instrument :
MSVOA_U
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45BR-20211108

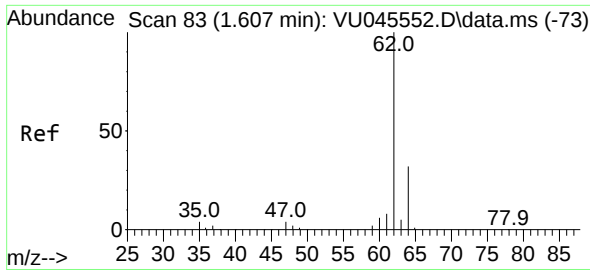
Tgt Ion:168 Resp: 141840
Ion Ratio Lower Upper
168 100
99 64.7 51.0 76.6



#2
Dichlorodifluoromethane
Concen: 3.760 ug/l
RT: 1.385 min Scan# 14
Delta R.T. 0.000 min
Lab File: VU045667.D
Acq: 09 Nov 2021 18:37

Tgt Ion: 85 Resp: 6914
Ion Ratio Lower Upper
85 100
87 33.5 15.9 47.7

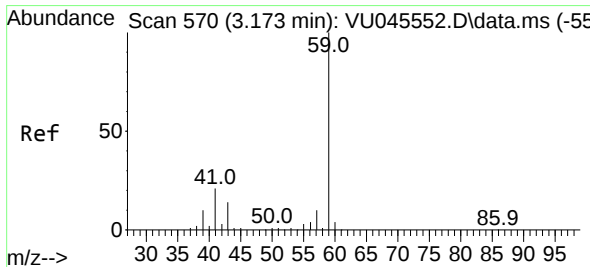
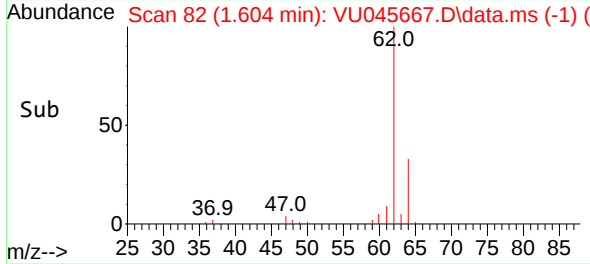
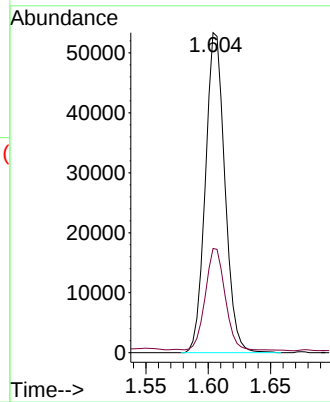
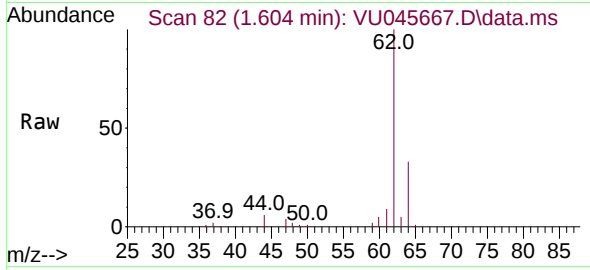




#4
 Vinyl Chloride
 Concen: 28.278 ug/l
 RT: 1.604 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VU045667.D
 Acq: 09 Nov 2021 18:37

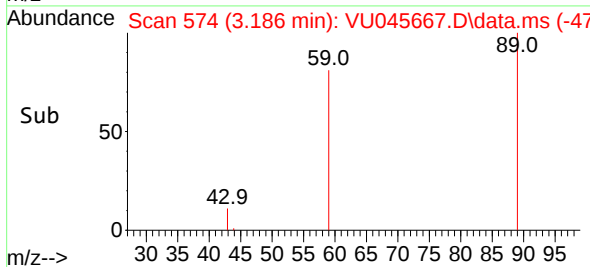
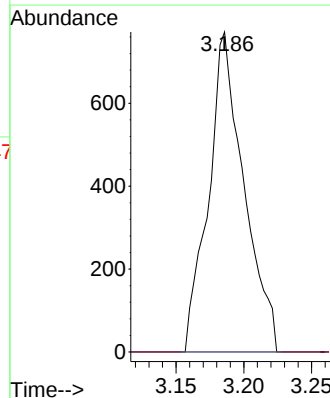
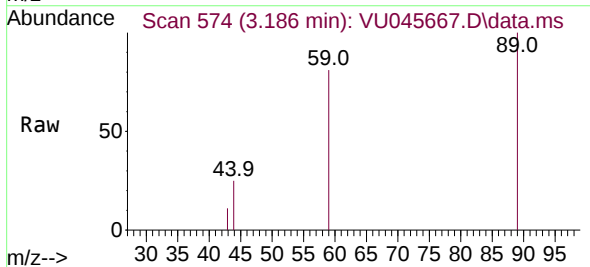
Instrument :
 MSVOA_U
 ClientSampleId :
 45BR-20211108

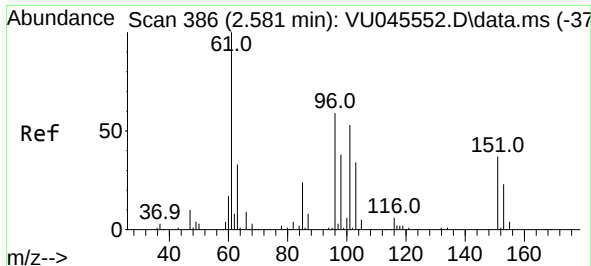
Tgt Ion: 62 Resp: 57962
 Ion Ratio Lower Upper
 62 100
 64 31.7 25.8 38.6



#11
 Tert butyl alcohol
 Concen: 3.332 ug/l
 RT: 3.186 min Scan# 574
 Delta R.T. 0.013 min
 Lab File: VU045667.D
 Acq: 09 Nov 2021 18:37

Tgt Ion: 59 Resp: 1401
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5





#12

1,1-Dichloroethene

Concen: 5.355 ug/l

RT: 2.581 min Scan# 386

Delta R.T. 0.000 min

Lab File: VU045667.D

Acq: 09 Nov 2021 18:37

Instrument :

MSVOA_U

ClientSampleId :

45BR-20211108

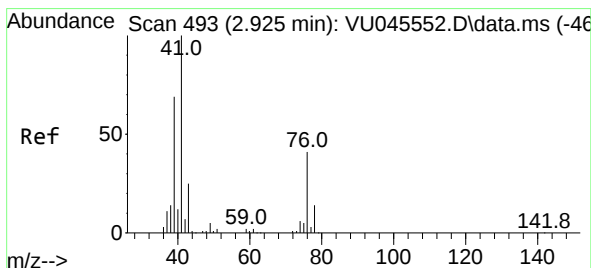
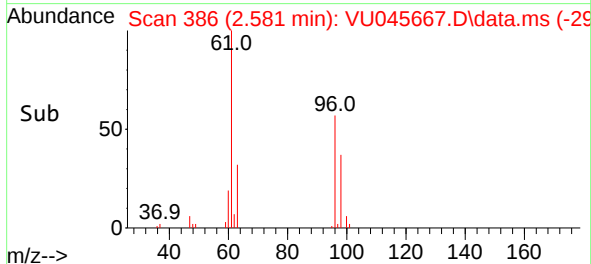
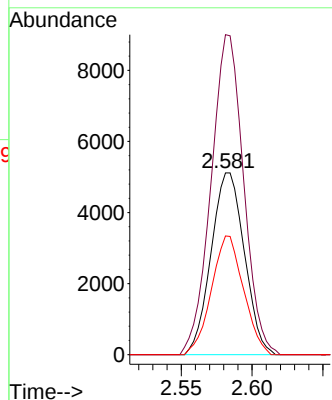
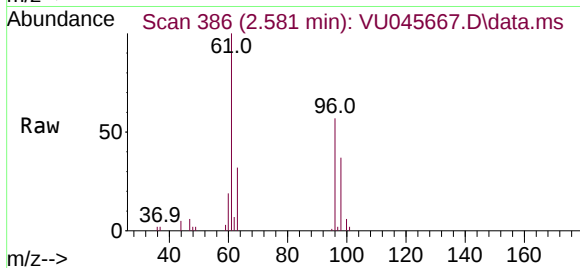
Tgt Ion: 96 Resp: 8357

Ion Ratio Lower Upper

96 100

61 176.0 137.1 205.7

98 65.3 51.5 77.3



#14

Allyl chloride

Concen: 0.629 ug/l

RT: 2.755 min Scan# 440

Delta R.T. -0.170 min

Lab File: VU045667.D

Acq: 09 Nov 2021 18:37

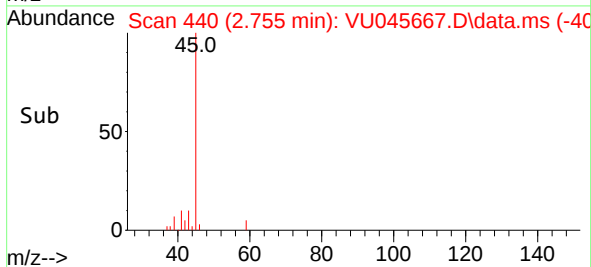
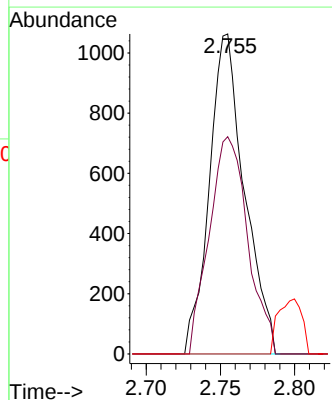
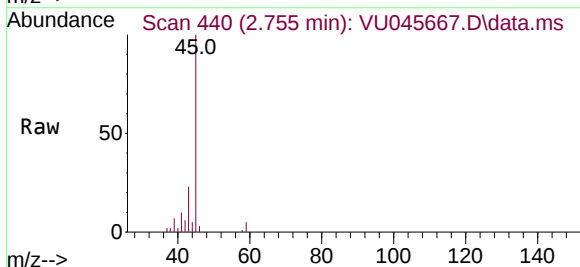
Tgt Ion: 41 Resp: 1752

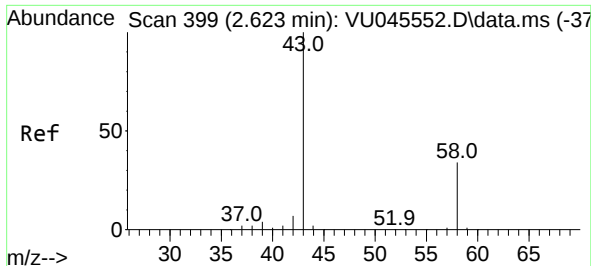
Ion Ratio Lower Upper

41 100

39 74.3 49.7 74.5

76 0.0 27.7 41.5#





#16

Acetone

Concen: 2.288 ug/l

RT: 2.626 min Scan# 40

Delta R.T. 0.003 min

Lab File: VU045667.D

Acq: 09 Nov 2021 18:37

Instrument :

MSVOA_U

ClientSampleId :

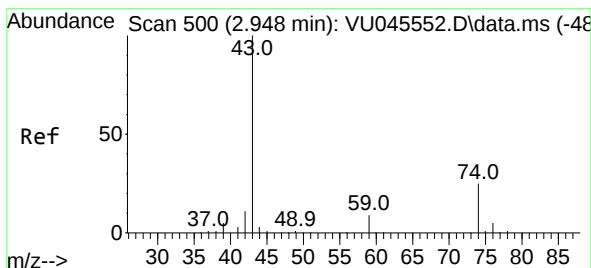
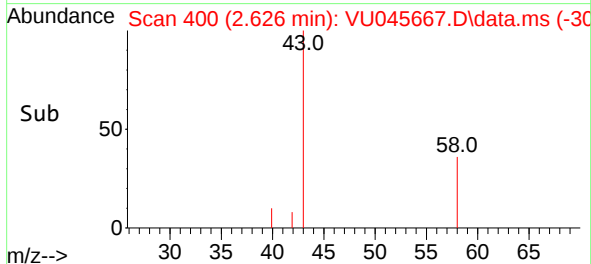
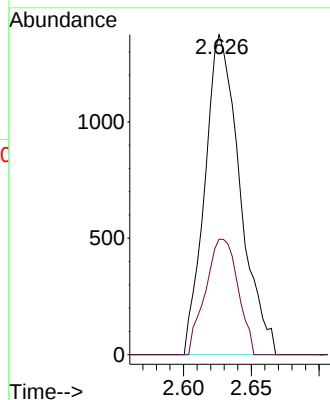
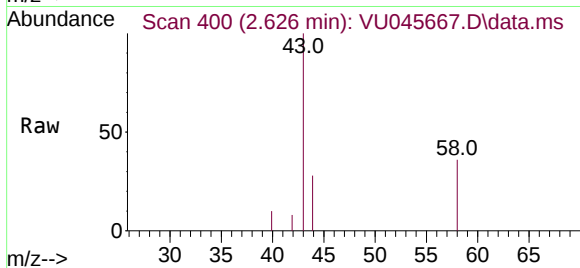
45BR-20211108

Tgt Ion: 43 Resp: 2474

Ion Ratio Lower Upper

43 100

58 36.1 26.2 39.2



#18

Methyl Acetate

Concen: 1.260 ug/l

RT: 2.755 min Scan# 440

Delta R.T. -0.193 min

Lab File: VU045667.D

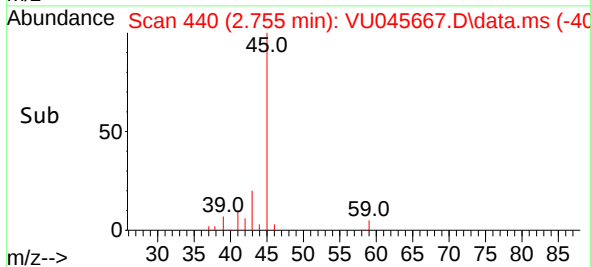
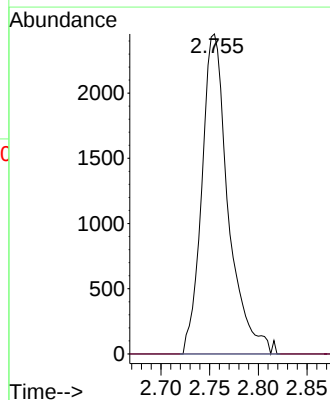
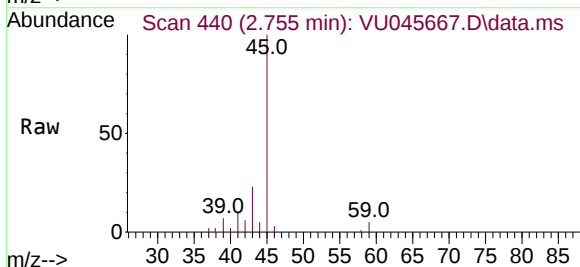
Acq: 09 Nov 2021 18:37

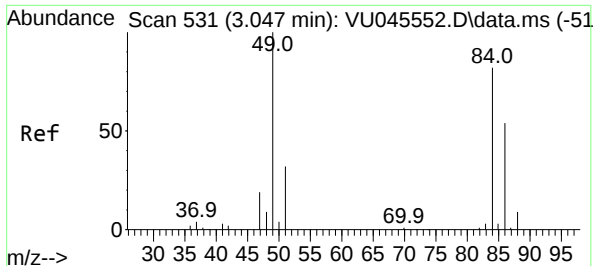
Tgt Ion: 43 Resp: 4639

Ion Ratio Lower Upper

43 100

74 0.0 20.2 30.2#

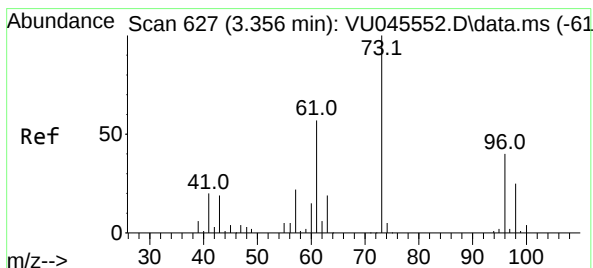
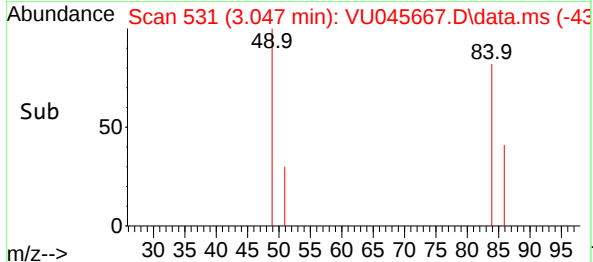
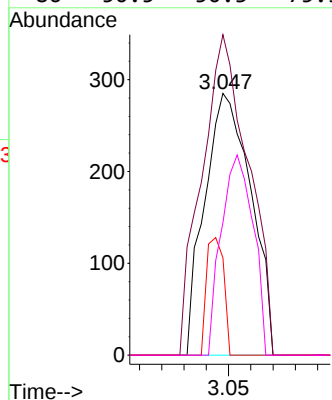
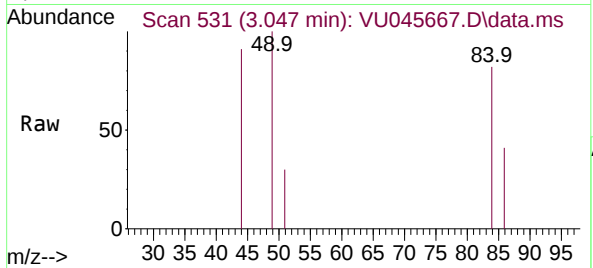




#20
Methylene Chloride
Concen: 0.219 ug/l
RT: 3.047 min Scan# 531
Delta R.T. 0.000 min
Lab File: VU045667.D
Acq: 09 Nov 2021 18:37

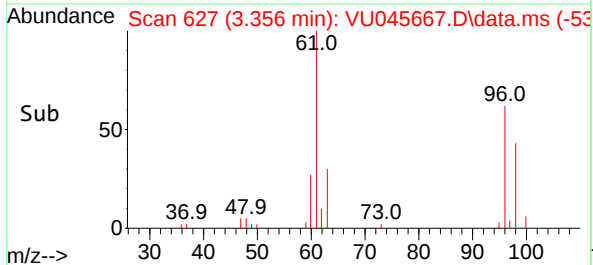
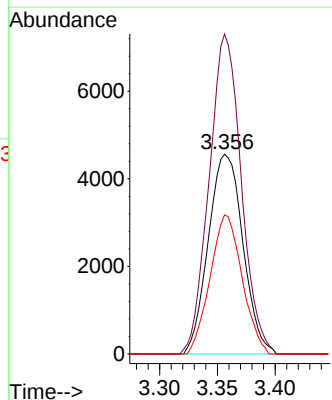
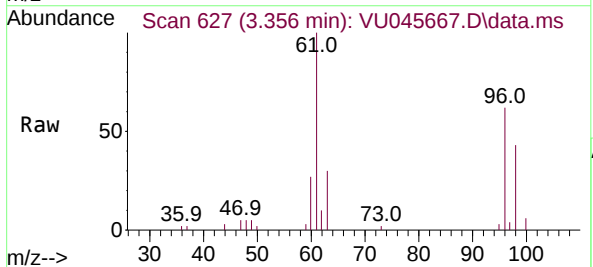
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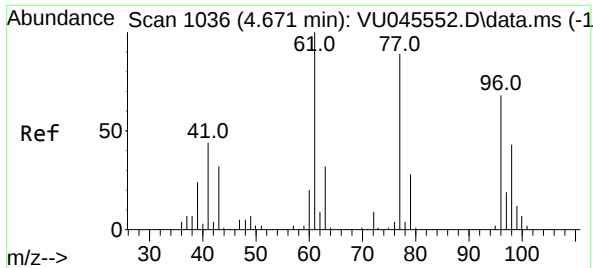
Tgt Ion: 84	Resp: 412
Ion Ratio	Lower Upper
84 100	
49 122.5	96.4 144.6
51 37.2	30.5 45.7
86 50.5	50.3 75.5



#21
trans-1,2-Dichloroethene
Concen: 5.853 ug/l
RT: 3.356 min Scan# 627
Delta R.T. 0.000 min
Lab File: VU045667.D
Acq: 09 Nov 2021 18:37

Tgt Ion: 96	Resp: 9502		
Ion Ratio	Lower	Upper	
96	100		
61	160.3	118.2	177.4
98	69.6	52.1	78.1





#26

2,2-Dichloropropane

Concen: 0.202 ug/l

RT: 4.629 min Scan# 1036

Delta R.T. -0.042 min

Lab File: VU045667.D

Acq: 09 Nov 2021 18:37

Instrument :

MSVOA_U

ClientSampleId :

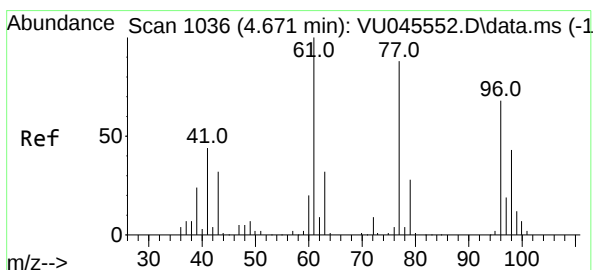
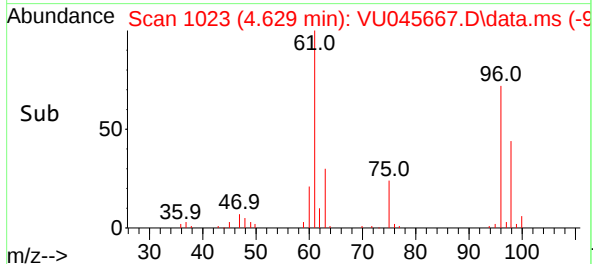
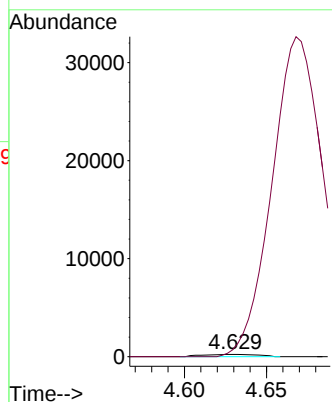
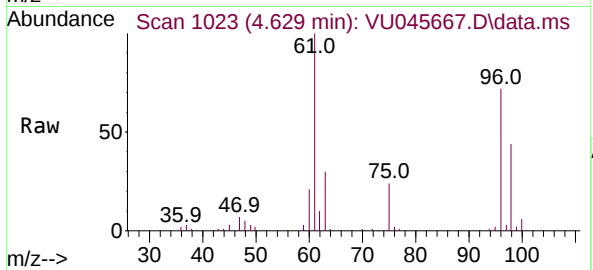
45BR-20211108

Tgt Ion: 77 Resp: 546

Ion Ratio Lower Upper

77 100

97 0.0 11.4 34.1#



#27

cis-1,2-Dichloroethene

Concen: 1036.914 ug/l

RT: 4.671 min Scan# 1036

Delta R.T. 0.000 min

Lab File: VU045667.D

Acq: 09 Nov 2021 18:37

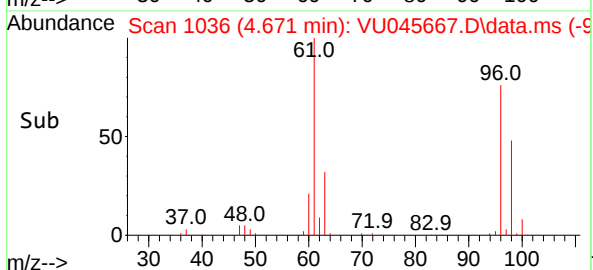
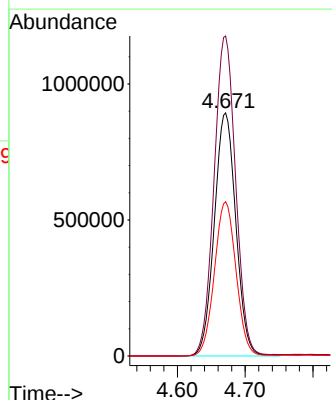
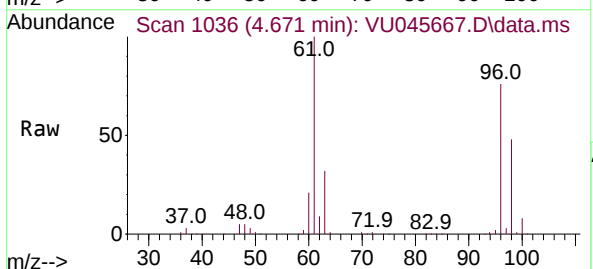
Tgt Ion: 96 Resp: 1977172

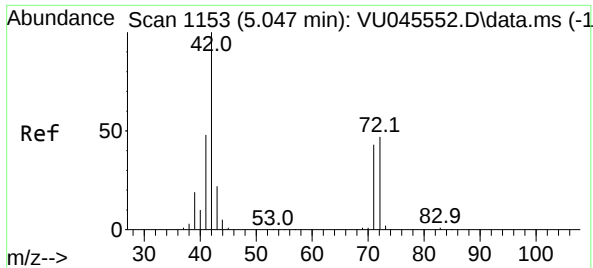
Ion Ratio Lower Upper

96 100

61 132.1 0.0 299.2

98 63.6 0.0 127.6

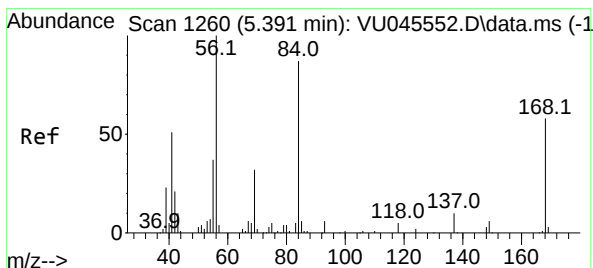
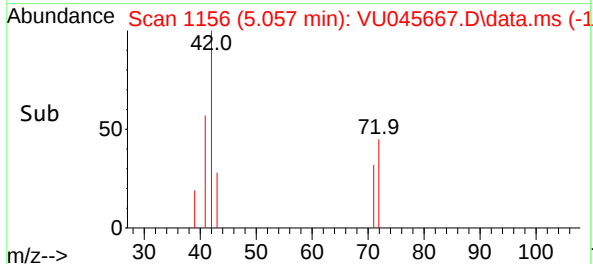
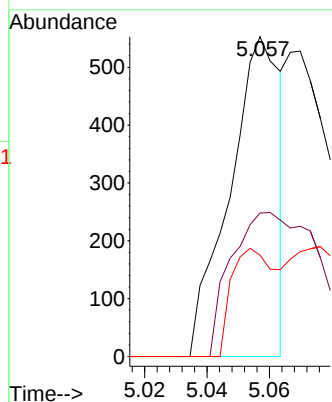
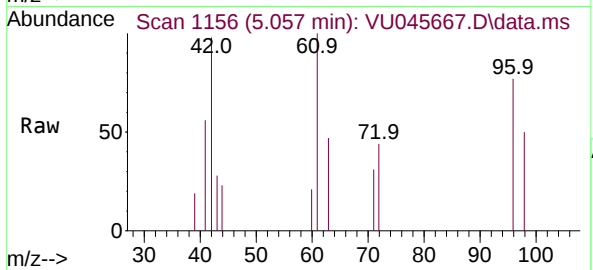




#29
Tetrahydrofuran
Concen: 0.678 ug/l
RT: 5.057 min Scan# 1153
Delta R.T. 0.010 min
Lab File: VU045667.D
Acq: 09 Nov 2021 18:37

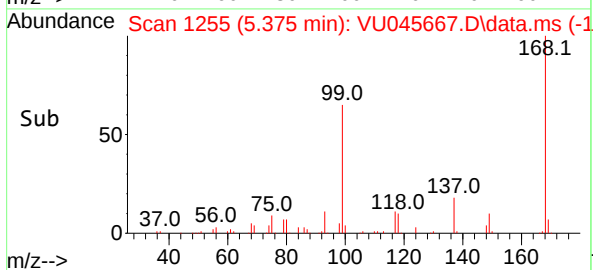
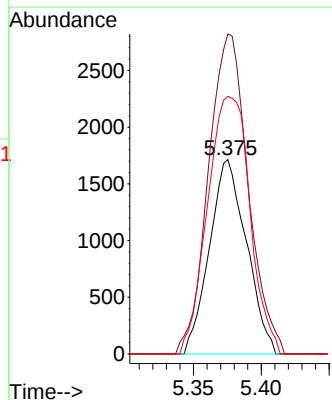
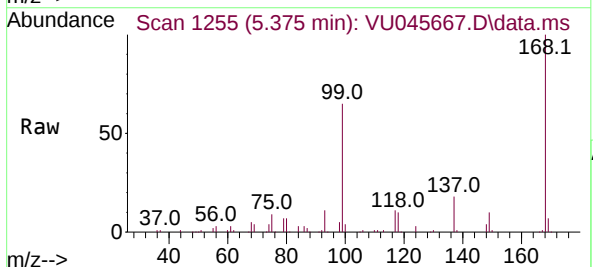
Instrument :
MSVOA_U
ClientSampleId :
45BR-20211108

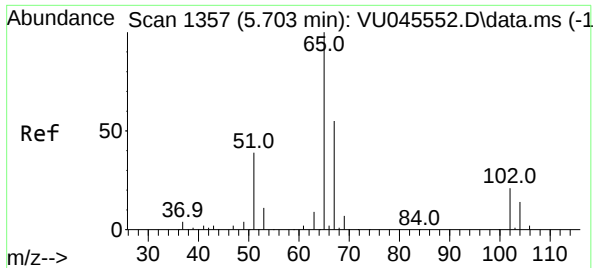
Tgt Ion: 42	Resp:	622
Ion	Ratio	Lower Upper
42	100	
72	74.4	38.2 57.4#
71	30.1	35.4 53.2#



#31
Cyclohexane
Concen: 1.050 ug/l
RT: 5.375 min Scan# 1255
Delta R.T. -0.016 min
Lab File: VU045667.D
Acq: 09 Nov 2021 18:37

Tgt Ion: 56	Resp:	3255
Ion	Ratio	Lower Upper
56	100	
69	158.6	26.4 39.6#
84	132.6	68.4 102.6#





#33

1,2-Dichloroethane-d4

Concen: 53.956 ug/l

RT: 5.703 min Scan# 11

Delta R.T. 0.000 min

Lab File: VU045667.D

Acq: 09 Nov 2021 18:37

Instrument :

MSVOA_U

ClientSampleId :

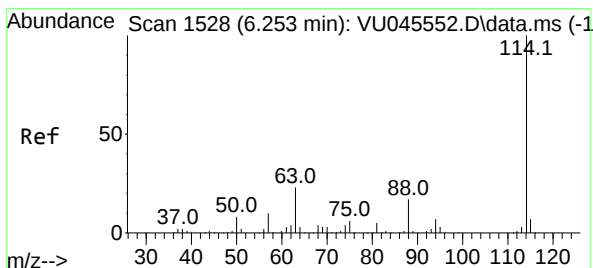
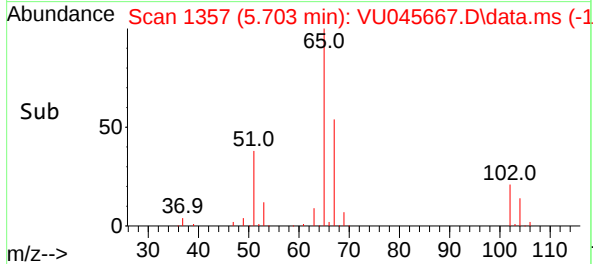
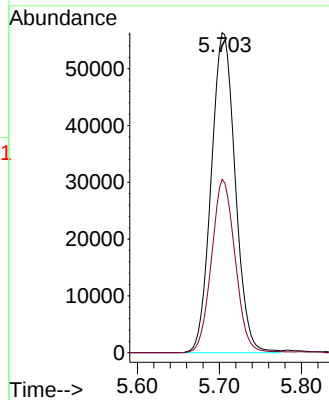
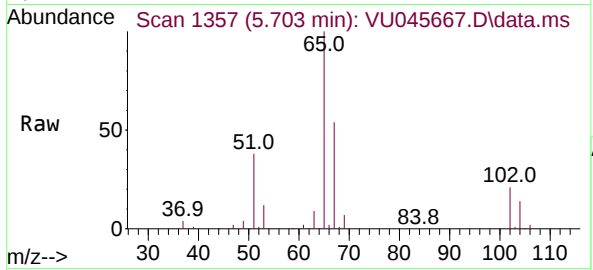
45BR-20211108

Tgt Ion: 65 Resp: 114615

Ion Ratio Lower Upper

65 100

67 53.3 0.0 105.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.253 min Scan# 1528

Delta R.T. 0.000 min

Lab File: VU045667.D

Acq: 09 Nov 2021 18:37

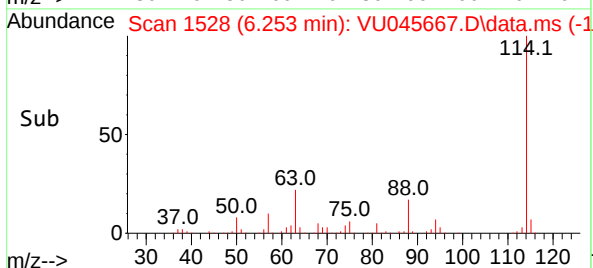
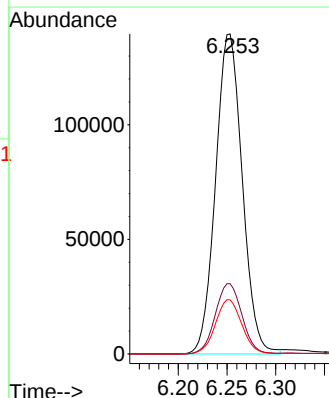
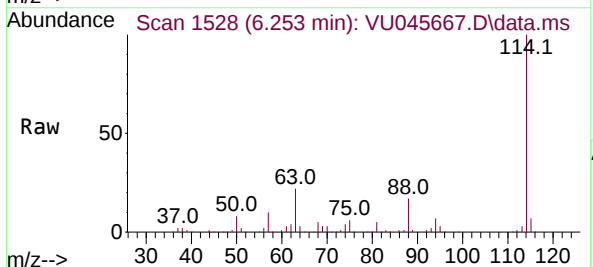
Tgt Ion: 114 Resp: 266008

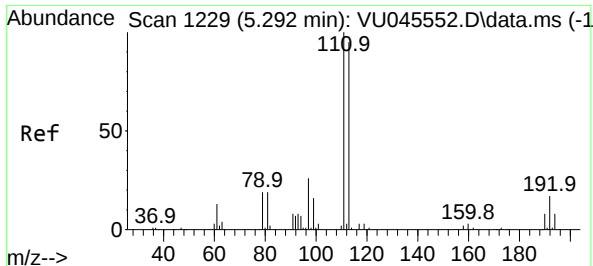
Ion Ratio Lower Upper

114 100

63 22.0 0.0 45.6

88 16.9 0.0 33.8

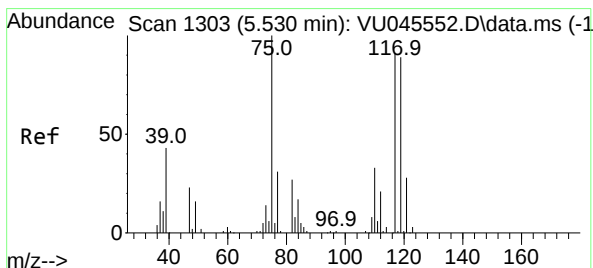
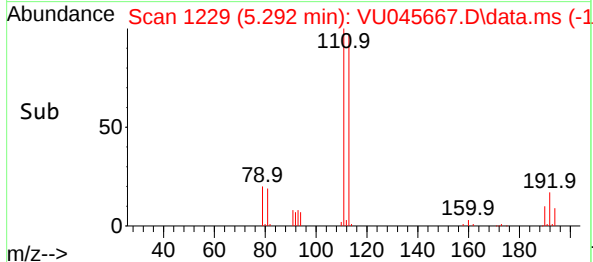
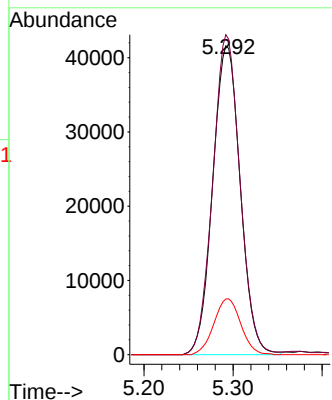
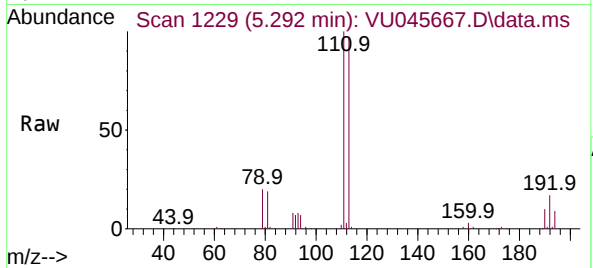




#35
Dibromofluoromethane
Concen: 50.323 ug/l
RT: 5.292 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU045667.D
Acq: 09 Nov 2021 18:37

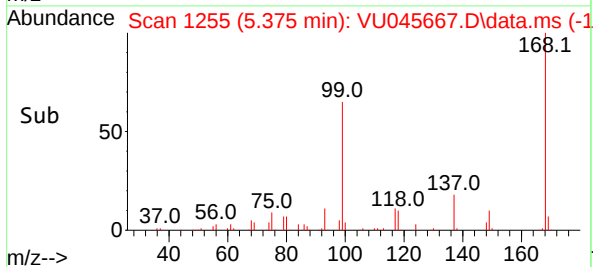
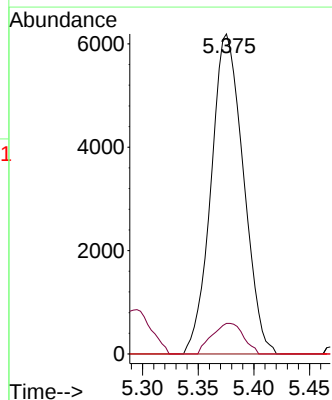
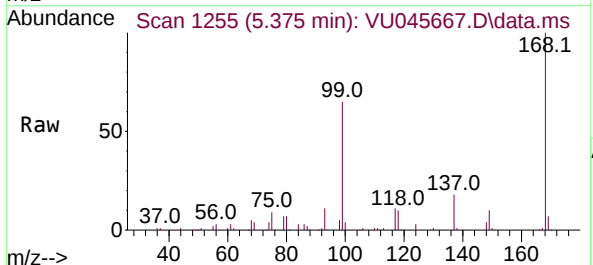
Instrument :
MSVOA_U
ClientSampleId :
45BR-20211108

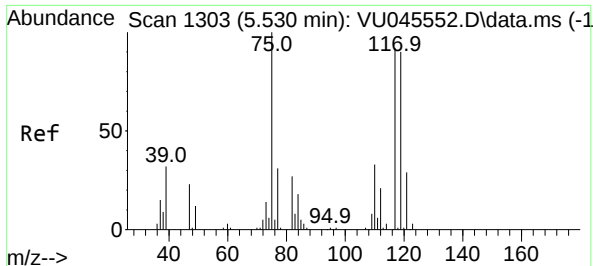
Tgt Ion:113 Resp: 89374
Ion Ratio Lower Upper
113 100
111 102.1 82.8 124.2
192 17.7 14.8 22.2



#36
1,1-Dichloropropene
Concen: 4.814 ug/l
RT: 5.375 min Scan# 1255
Delta R.T. -0.154 min
Lab File: VU045667.D
Acq: 09 Nov 2021 18:37

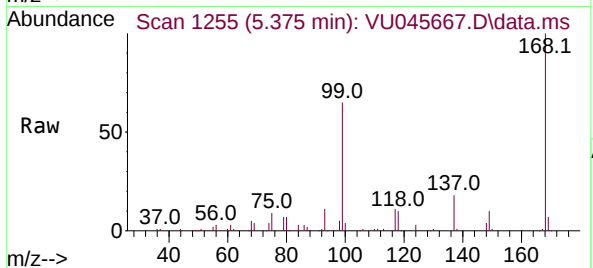
Tgt Ion: 75 Resp: 12486
Ion Ratio Lower Upper
75 100
110 9.3 16.7 50.0#
77 0.0 25.0 37.4#



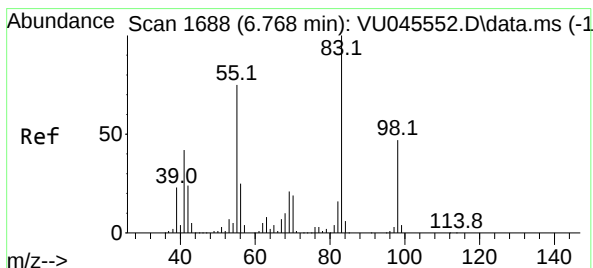
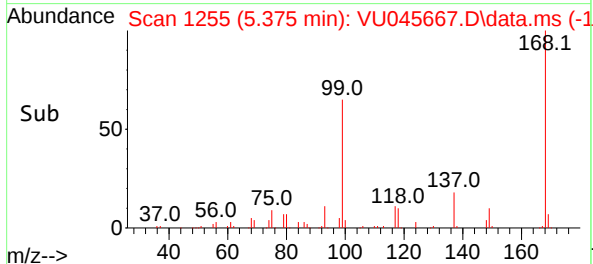
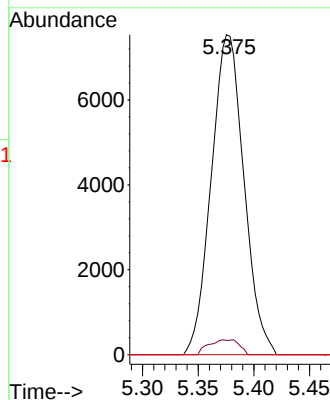


#38
Carbon Tetrachloride
Concen: 5.877 ug/l
RT: 5.375 min Scan# 11
Delta R.T. -0.154 min
Lab File: VU045667.D
Acq: 09 Nov 2021 18:37

Instrument :
MSVOA_U
ClientSampleId :
45BR-20211108

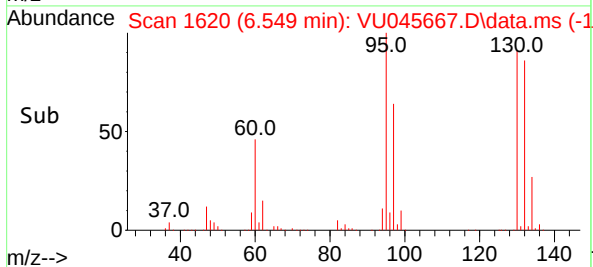
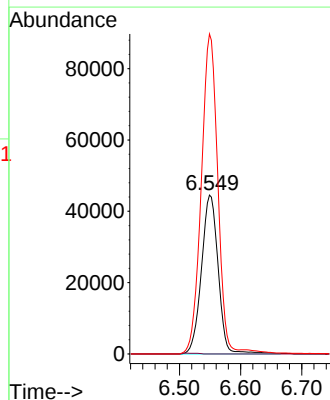
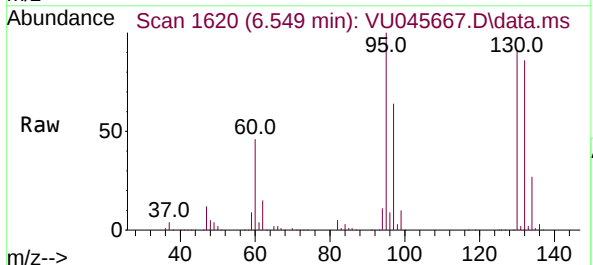


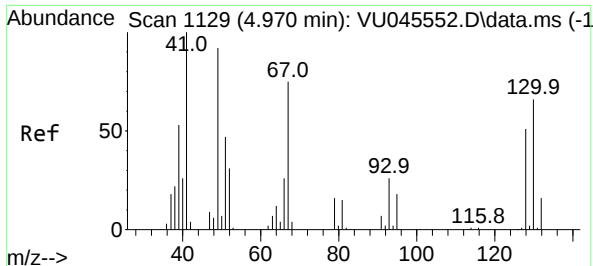
Tgt Ion:117 Resp: 15367
Ion Ratio Lower Upper
117 100
119 4.4 77.4 116.0#
121 0.0 24.8 37.2#



#39
Methylcyclohexane
Concen: 26.578 ug/l
RT: 6.549 min Scan# 1620
Delta R.T. -0.219 min
Lab File: VU045667.D
Acq: 09 Nov 2021 18:37

Tgt Ion: 83 Resp: 84573
Ion Ratio Lower Upper
83 100
55 0.0 63.6 95.4#
98 201.3 37.1 55.7#

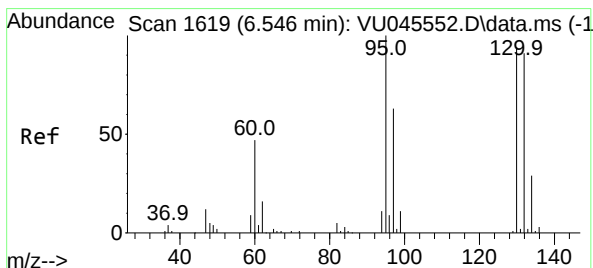
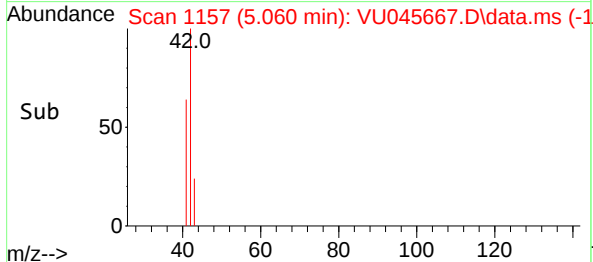
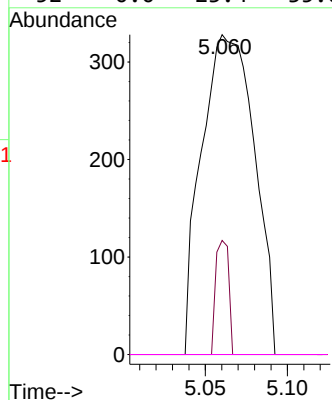
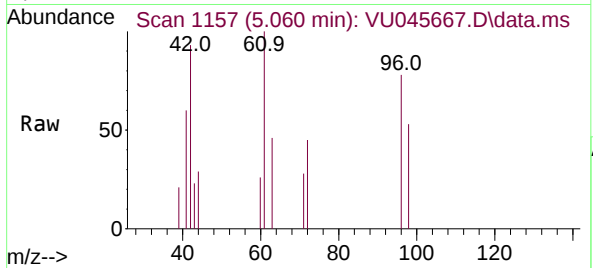




#41
Methacrylonitrile
Concen: 0.466 ug/l
RT: 5.060 min Scan# 1129
Delta R.T. 0.090 min
Lab File: VU045667.D
Acq: 09 Nov 2021 18:37

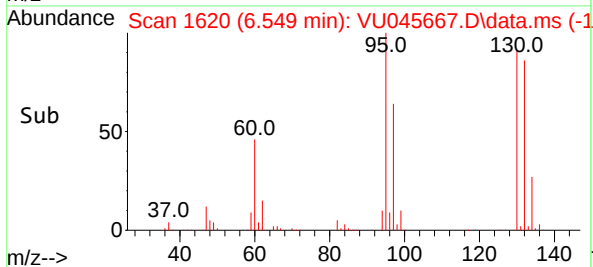
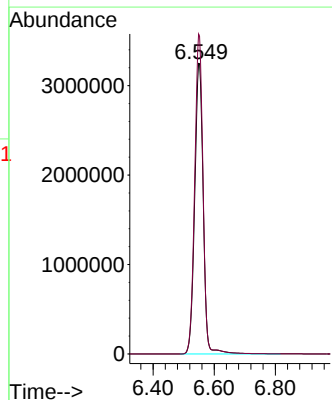
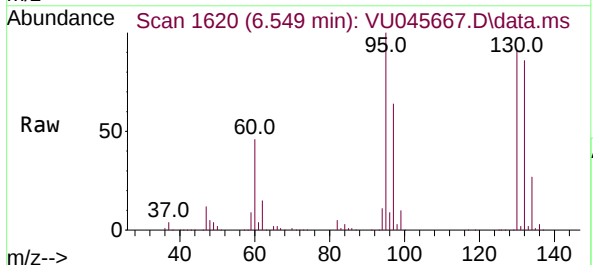
Instrument :
MSVOA_U
ClientSampleId :
45BR-20211108

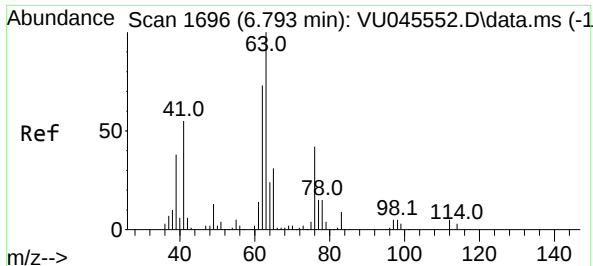
Tgt Ion: 41	Resp: 734
Ion Ratio	Lower Upper
41	100
39	8.7 43.4 65.0#
67	0.0 61.0 91.4#
52	0.0 23.4 35.0#



#44
Trichloroethene
Concen: 3414.394 ug/l
RT: 6.549 min Scan# 1620
Delta R.T. 0.003 min
Lab File: VU045667.D
Acq: 09 Nov 2021 18:37

Tgt Ion: 130	Resp: 6276232
Ion Ratio	Lower Upper
130	100
95	110.1 0.0 211.4





#45

1,2-Dichloropropane

Concen: 11.012 ug/l

RT: 6.549 min Scan# 1

Delta R.T. -0.244 min

Lab File: VU045667.D

Acq: 09 Nov 2021 18:37

Instrument :

MSVOA_U

ClientSampleId :

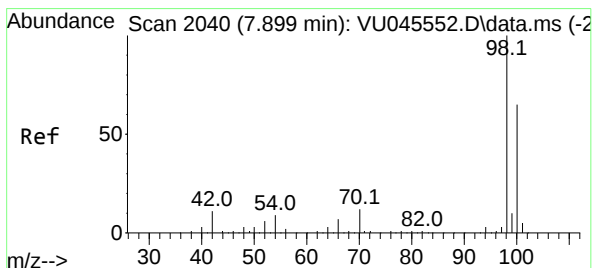
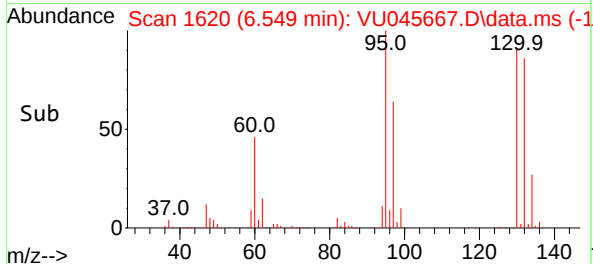
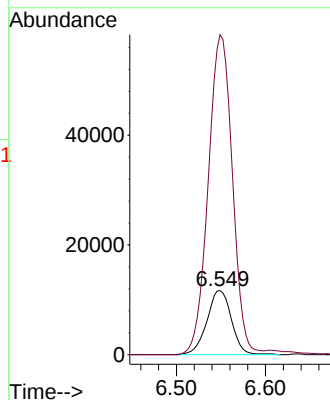
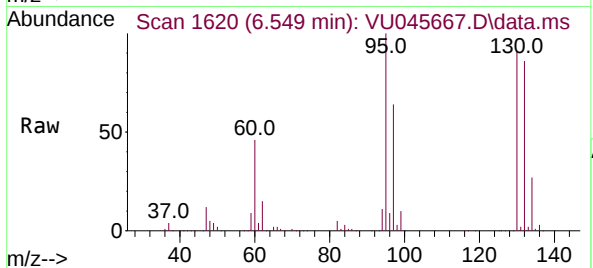
45BR-20211108

Tgt Ion: 63 Resp: 22376

Ion Ratio Lower Upper

63 100

65 498.6 25.7 38.5#



#50

Toluene-d8

Concen: 52.144 ug/l

RT: 7.899 min Scan# 2040

Delta R.T. 0.000 min

Lab File: VU045667.D

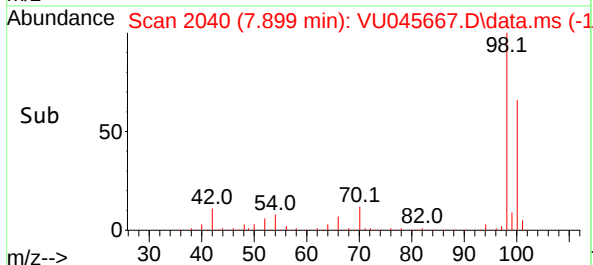
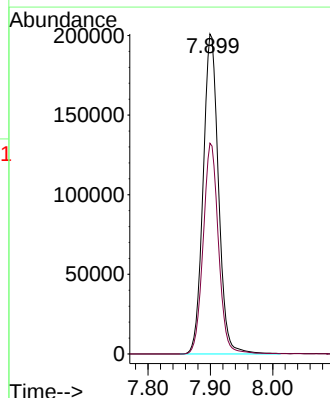
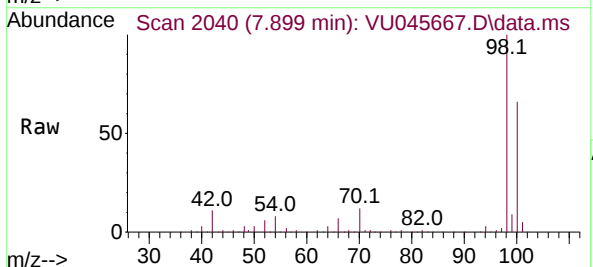
Acq: 09 Nov 2021 18:37

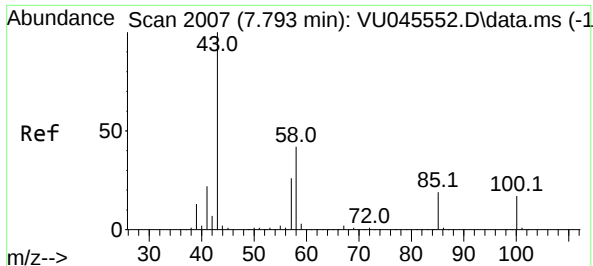
Tgt Ion: 98 Resp: 344363

Ion Ratio Lower Upper

98 100

100 65.7 52.5 78.7

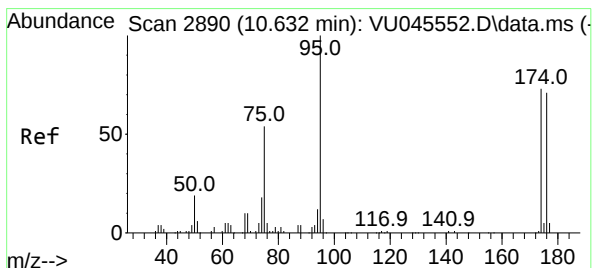
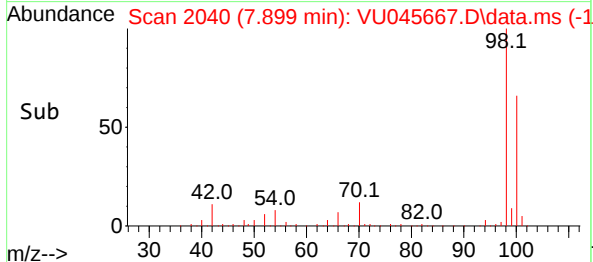
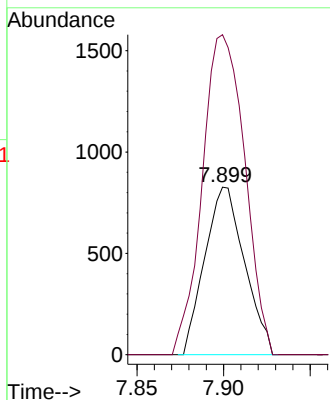
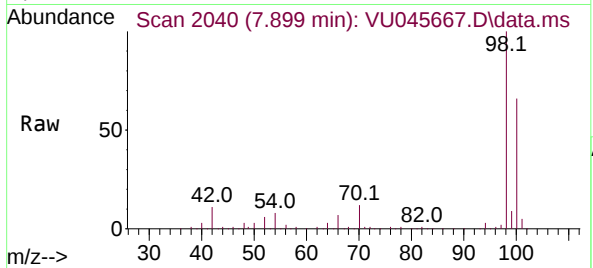




#51
4-Methyl-2-Pentanone
Concen: 0.439 ug/l
RT: 7.899 min Scan# 2007
Delta R.T. 0.106 min
Lab File: VU045667.D
Acq: 09 Nov 2021 18:37

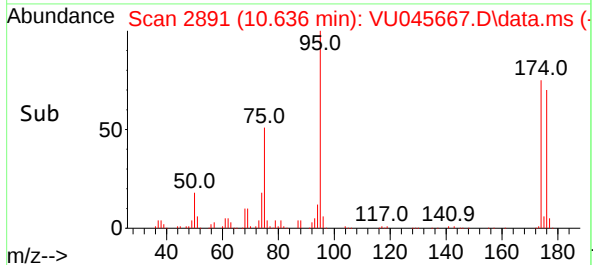
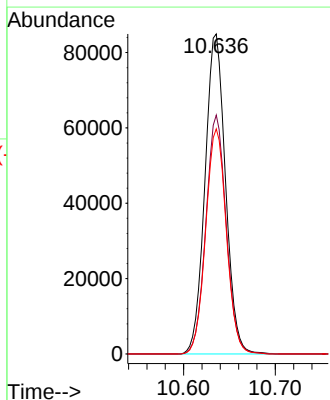
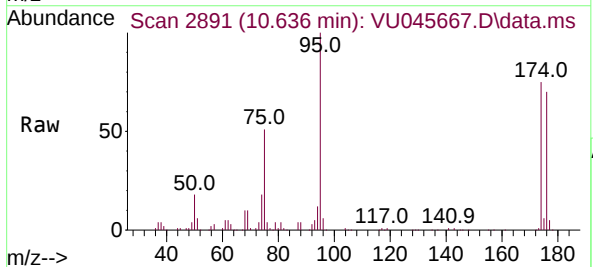
Instrument :
MSVOA_U
ClientSampleId :
45BR-20211108

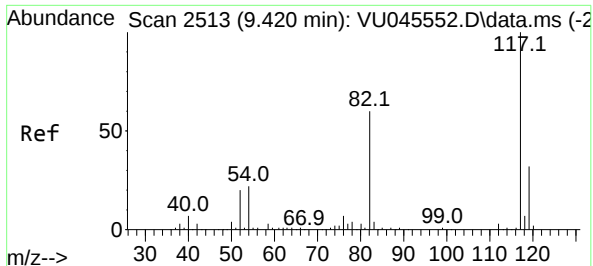
Tgt Ion: 43 Resp: 1321
Ion Ratio Lower Upper
43 100
58 203.6 33.8 50.8#



#62
4-Bromofluorobenzene
Concen: 49.918 ug/l
RT: 10.636 min Scan# 2891
Delta R.T. 0.003 min
Lab File: VU045667.D
Acq: 09 Nov 2021 18:37

Tgt Ion: 95 Resp: 132193
Ion Ratio Lower Upper
95 100
174 73.9 0.0 141.8
176 70.7 0.0 138.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.420 min Scan# 2

Delta R.T. 0.000 min

Lab File: VU045667.D

Acq: 09 Nov 2021 18:37

Instrument :

MSVOA_U

ClientSampleId :

45BR-20211108

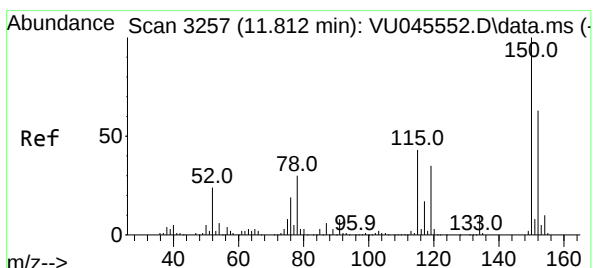
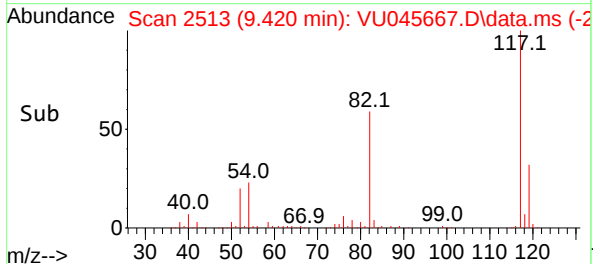
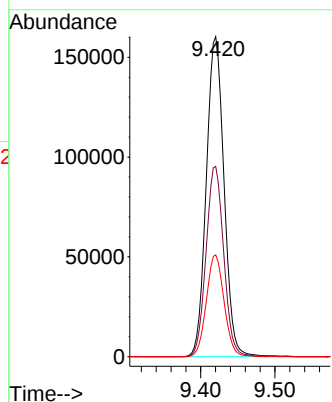
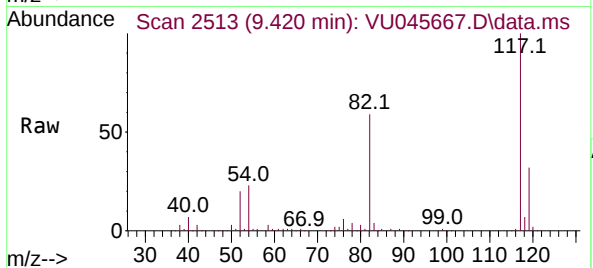
Tgt Ion:117 Resp: 265580

Ion Ratio Lower Upper

117 100

82 59.5 47.8 71.8

119 31.8 25.8 38.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.812 min Scan# 3257

Delta R.T. 0.000 min

Lab File: VU045667.D

Acq: 09 Nov 2021 18:37

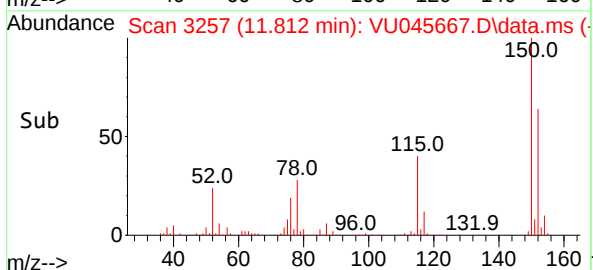
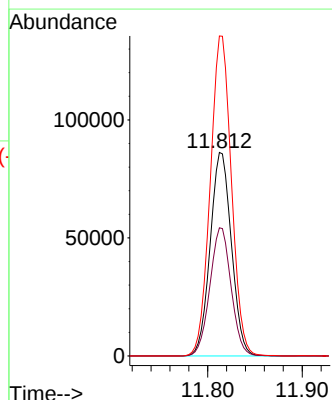
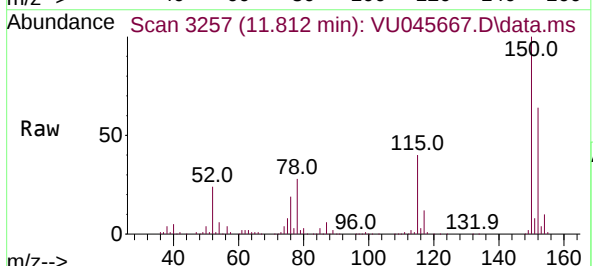
Tgt Ion:152 Resp: 134503

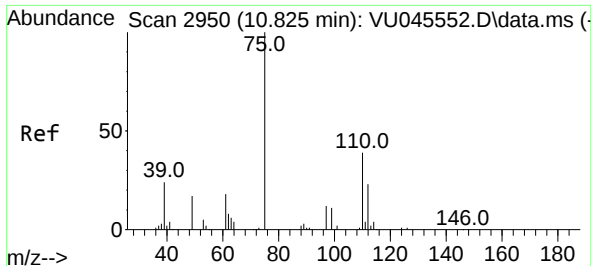
Ion Ratio Lower Upper

152 100

115 62.8 42.7 128.1

150 156.7 0.0 346.8

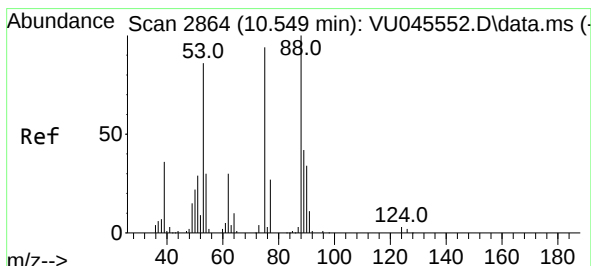
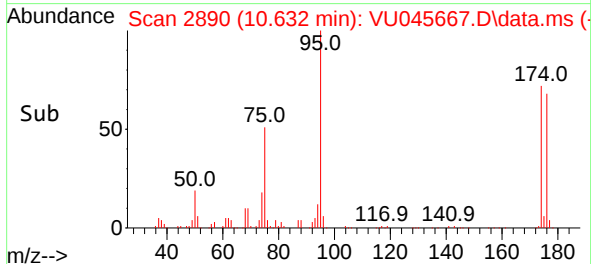
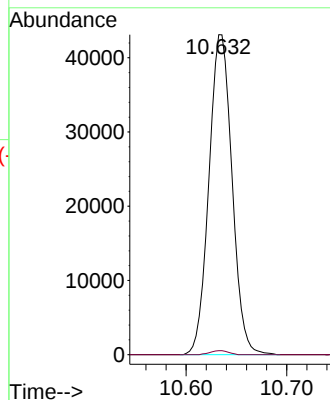
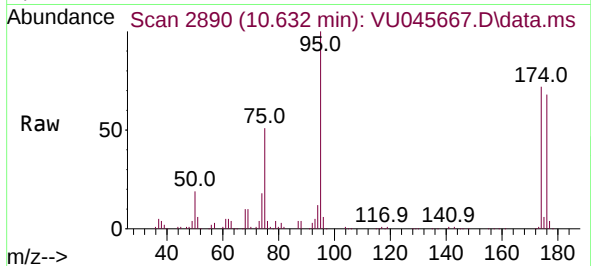




#76
1,2,3-Trichloropropane
Concen: 16.874 ug/l
RT: 10.632 min Scan# 2890
Delta R.T. -0.193 min
Lab File: VU045667.D
Acq: 09 Nov 2021 18:37

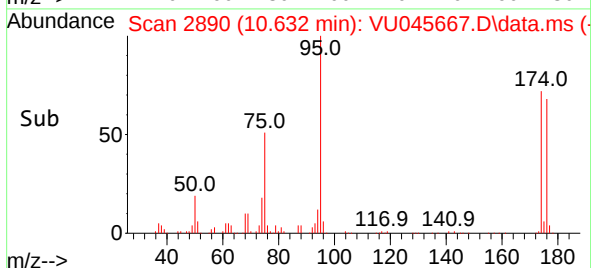
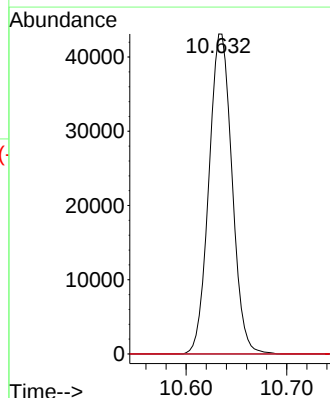
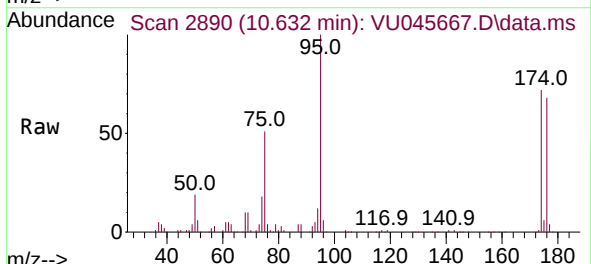
Instrument :
MSVOA_U
ClientSampleId :
45BR-20211108

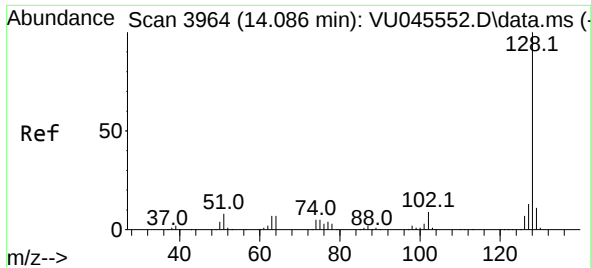
Tgt Ion: 75 Resp: 68826
Ion Ratio Lower Upper
75 100
77 1.0 17.1 51.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 54.961 ug/l
RT: 10.632 min Scan# 2890
Delta R.T. 0.083 min
Lab File: VU045667.D
Acq: 09 Nov 2021 18:37

Tgt Ion: 75 Resp: 68826
Ion Ratio Lower Upper
75 100
53 0.0 76.2 114.4#
89 0.0 34.0 51.0#





#95

Naphthalene

Concen: 1.052 ug/l

RT: 14.092 min Scan# 3966

Delta R.T. 0.006 min

Lab File: VU045667.D

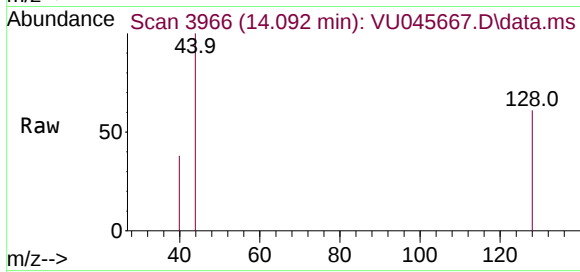
Acq: 09 Nov 2021 18:37

Instrument :

MSVOA_U

ClientSampleId :

45BR-20211108



Tgt Ion:128 Resp: 261

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

129 0.0 8.6 13.0#

