

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U120618\
 Data File : VU028504.D
 Acq On : 06 Dec 2018 16:35
 Operator : MD/SY
 Sample : J6259-20
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 07 06:15:56 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U120618W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 07 00:39:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	103115	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	194113	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	178480	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	81315	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	87057	55.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.64%	
35) Dibromofluoromethane	4.88	113	63664	52.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.24%	
50) Toluene-d8	7.57	98	252824	52.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.64%	
62) 4-Bromofluorobenzene	10.30	95	90385	50.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.08%	

Target Compounds

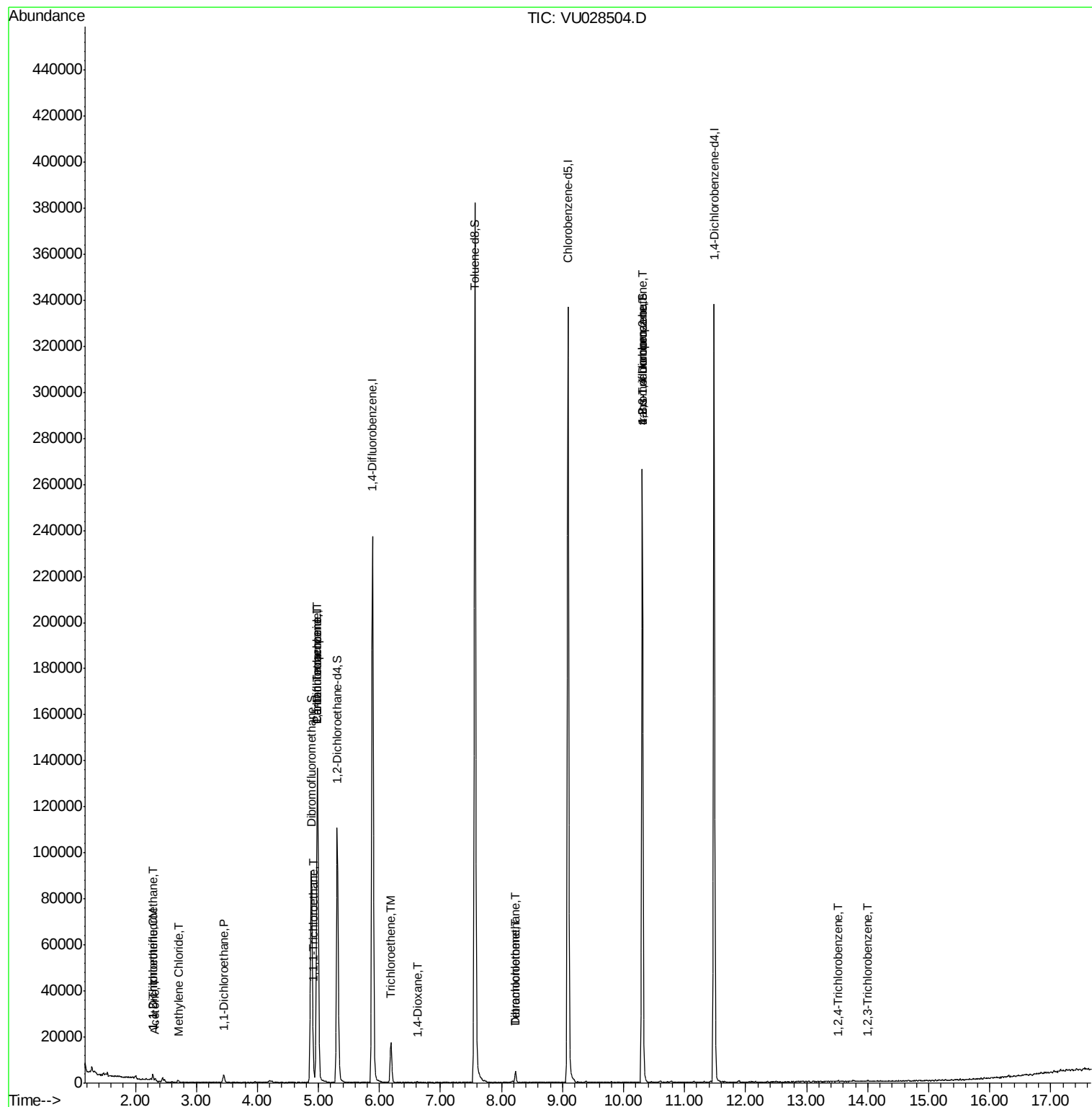
						Qvalue
9) 1,1,2-Trichlorotrifluoroet	2.29	101	293	0.254	ug/l #	58
12) 1,1-Dichloroethene	2.29	96	585	0.510	ug/l	89
16) Acetone	2.32	43	1490	1.451	ug/l	90
20) Methylene Chloride	2.70	84	348	0.230	ug/l #	81
24) 1,1-Dichloroethane	3.45	63	4141	1.498	ug/l #	96
31) Cyclohexane	4.98	56	2654	Below Cal	#	1
32) 1,1,1-Trichloroethane	4.92	97	2124	1.061	ug/l #	37
36) 1,1-Dichloropropene	4.98	75	9092	4.280	ug/l #	49
38) Carbon Tetrachloride	4.98	117	10076	5.885	ug/l #	15
44) Trichloroethene	6.19	130	5978	4.298	ug/l	96
49) 1,4-Dioxane	6.62	88	163	4.780	ug/l #	37
60) Dibromochloromethane	8.22	129	1123	0.788	ug/l #	10
64) Tetrachloroethene	8.23	164	1061	0.891	ug/l	93
76) 1,2,3-Trichloropropane	10.30	75	47717	22.981	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.30	75	47717	56.434	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.51	180	149	0.921	ug/l #	59
96) 1,2,3-Trichlorobenzene	13.99	180	164	0.233	ug/l #	44

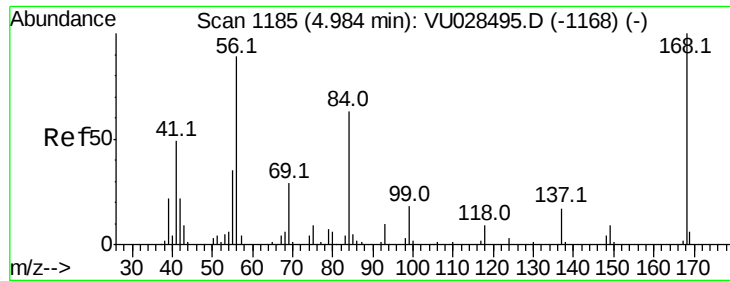
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VU028504.D

Acq: 06 Dec 2018 16:35

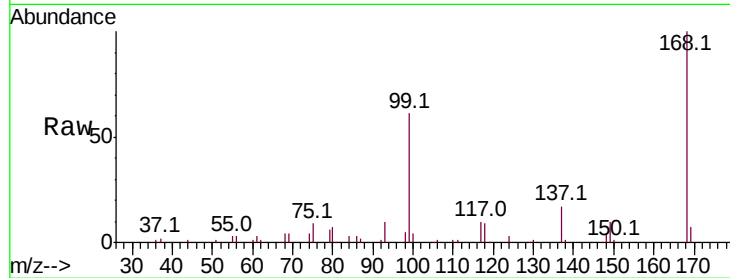
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:168 Resp: 103115

Ion Ratio Lower Upper

168 100

99 60.8 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VU

4.98

50000

40000

30000

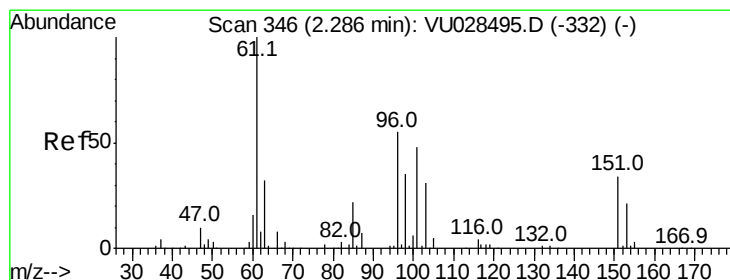
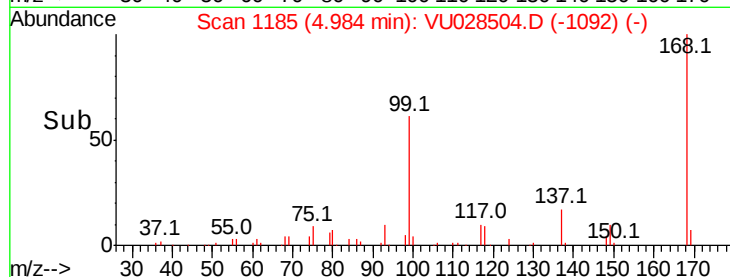
20000

10000

0

Time-->

4.90 5.00 5.10



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.254 ug/l

RT: 2.29 min Scan# 347

Delta R.T. 0.00 min

Lab File: VU028504.D

Acq: 06 Dec 2018 16:35

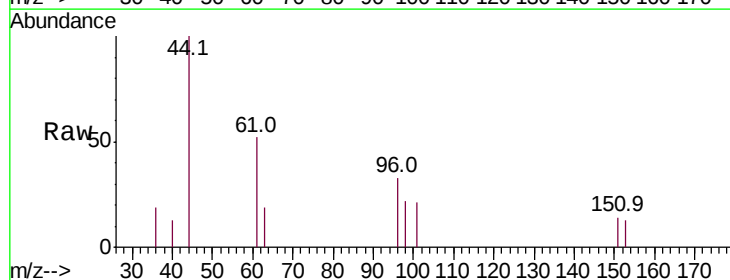
Tgt Ion:101 Resp: 293

Ion Ratio Lower Upper

101 100

85 6.8 36.4 54.6#

151 46.4 58.2 87.2#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VU

Ion 150.80 (150.50 to 151.50): V

2.29

300

250

200

150

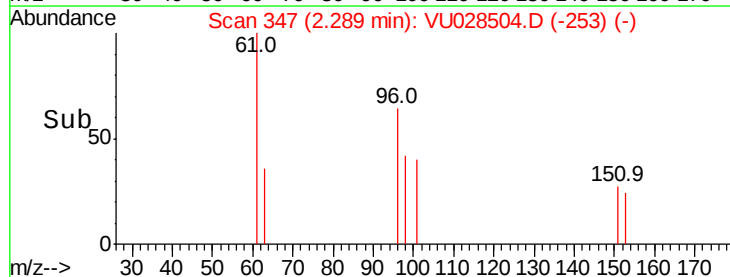
100

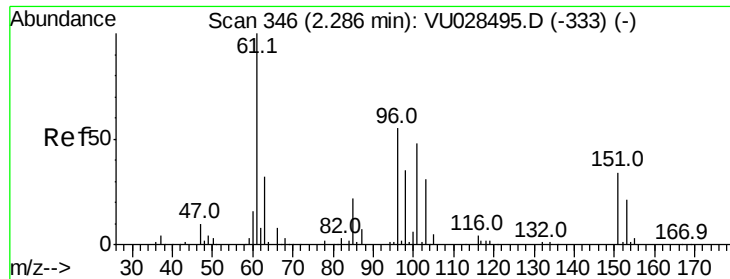
50

0

Time-->

2.26 2.28 2.30





#12

1,1-Dichloroethene

Concen: 0.510 ug/l

RT: 2.29 min Scan# 346

Delta R.T. -0.00 min

Lab File: VU028504.D

Acq: 06 Dec 2018 16:35

Instrument :
MSVOA_U
ClientSampleId :

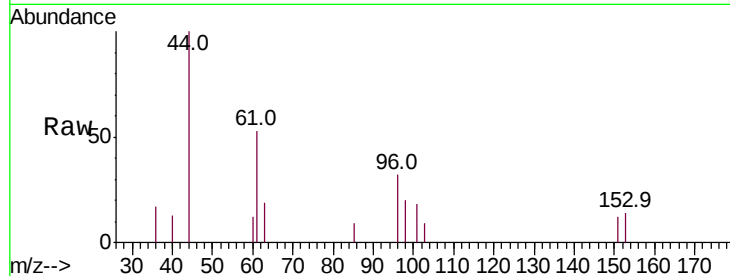
Tot Ion: 96 Resp: 585

Ion Ratio Lower Upper

96 100

61 164.2 146.4 219.6

98 62.1 51.8 77.8



Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0

800

600

400

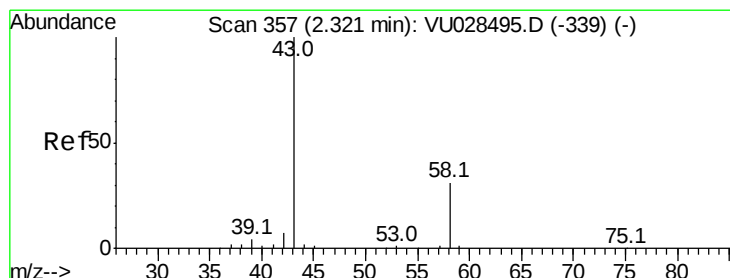
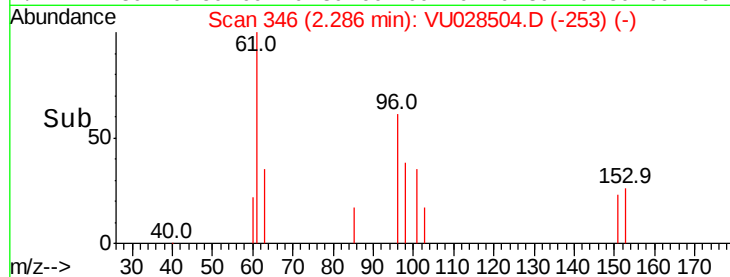
200

0

2.24 2.26 2.28 2.30 2.32

2.29

Time-->



#16

Acetone

Concen: 1.451 ug/l

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU028504.D

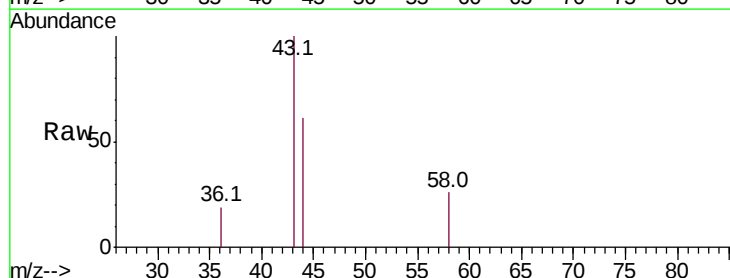
Acq: 06 Dec 2018 16:35

Tgt Ion: 43 Resp: 1490

Ion Ratio Lower Upper

43 100

58 25.5 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

1000

800

600

400

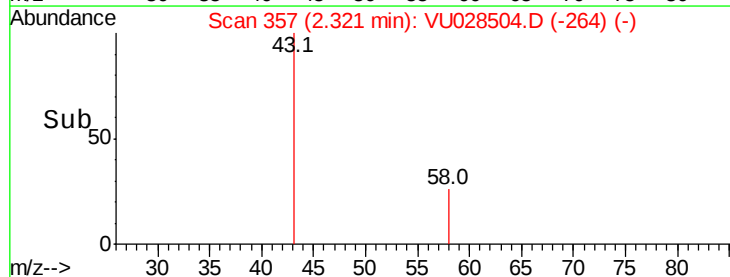
200

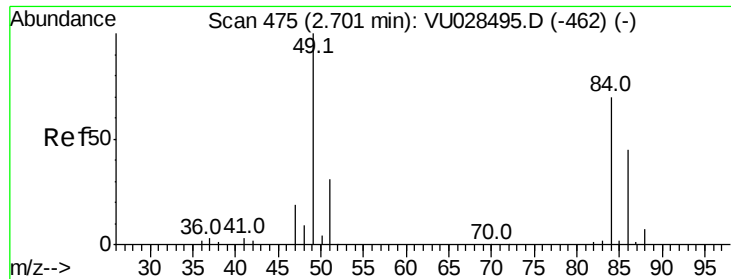
0

2.30 2.32 2.35

2.32

Time-->

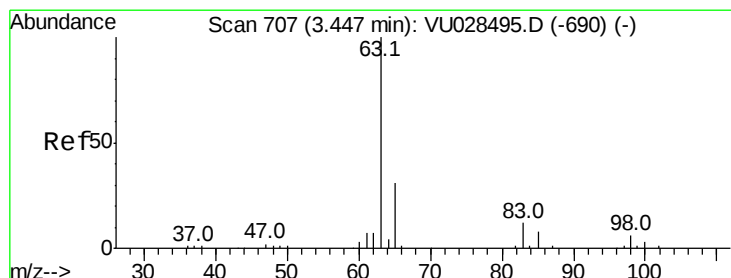
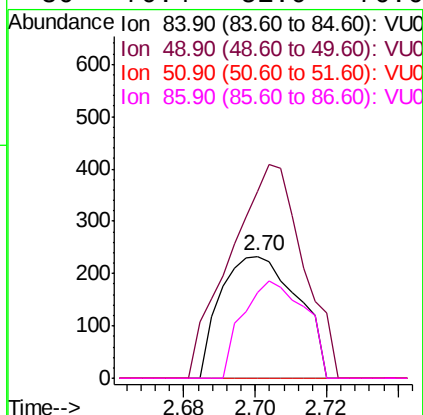
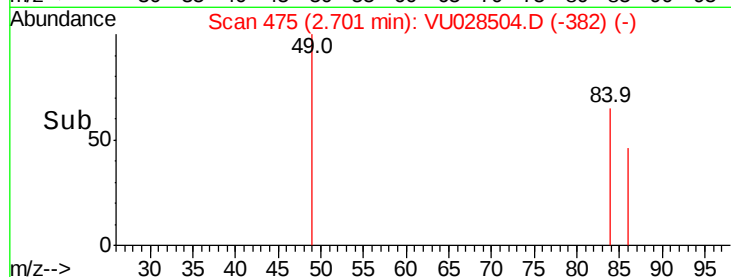
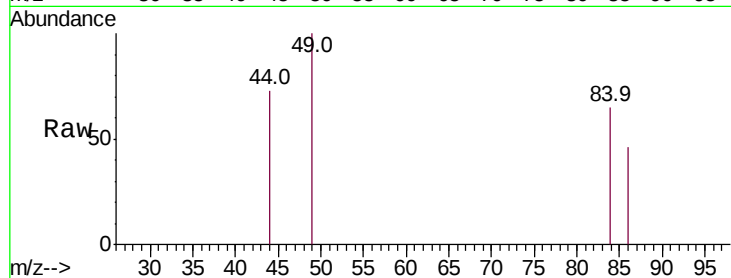




#20
Methvlene Chloride
Concen: 0.230 ug/l
RT: 2.70 min Scan# 475
Delta R.T. -0.00 min
Lab File: VU028504.D
Acq: 06 Dec 2018 16:35

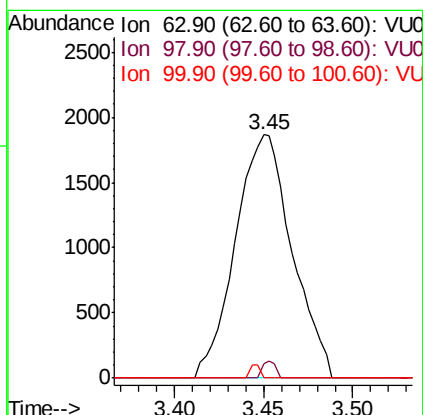
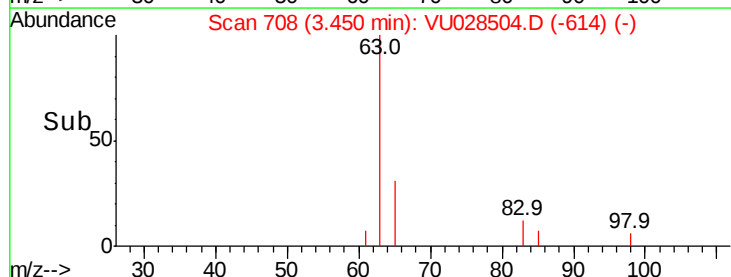
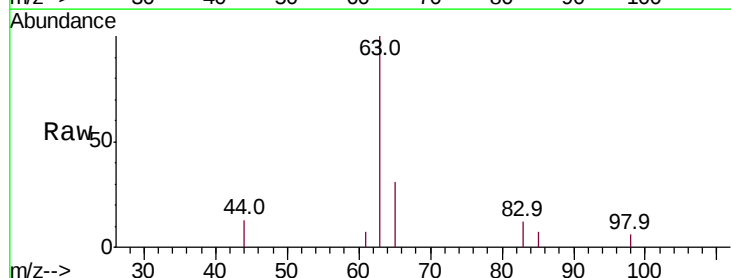
Instrument :
MSVOA_U
ClientSampled :

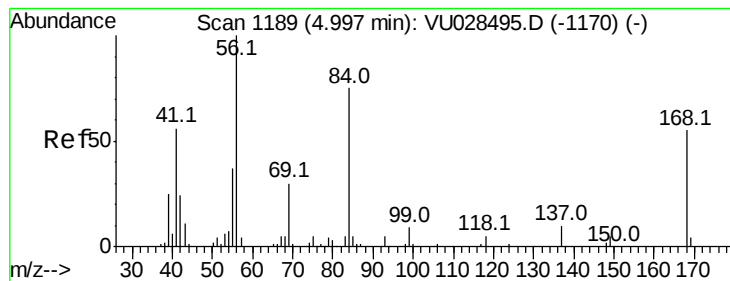
Tot Ion: 84 Resp: 348
Ion Ratio Lower Upper
84 100
49 153.2 114.0 171.0
51 0.0 35.1 52.7#
86 70.4 51.0 76.6



#24
1,1-Dichloroethane
Concen: 1.498 ug/l
RT: 3.45 min Scan# 708
Delta R.T. 0.00 min
Lab File: VU028504.D
Acq: 06 Dec 2018 16:35

Tgt Ion: 63 Resp: 4141
Ion Ratio Lower Upper
63 100
98 6.1 3.0 9.2
100 0.0 1.7 5.1#





#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1184

Delta R.T. -0.02 min

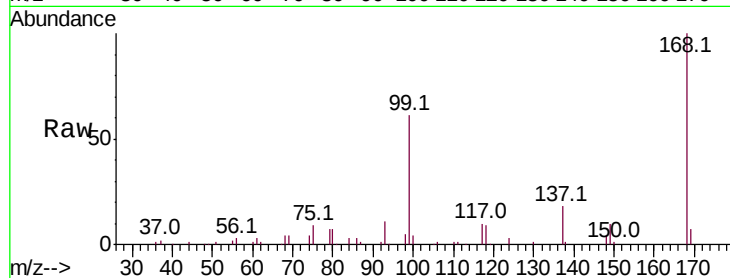
Lab File: VU028504.D

Acq: 06 Dec 2018 16:35

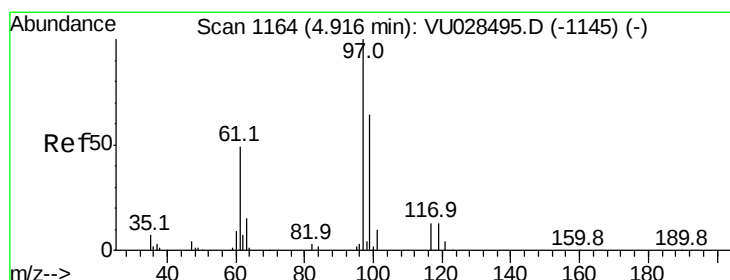
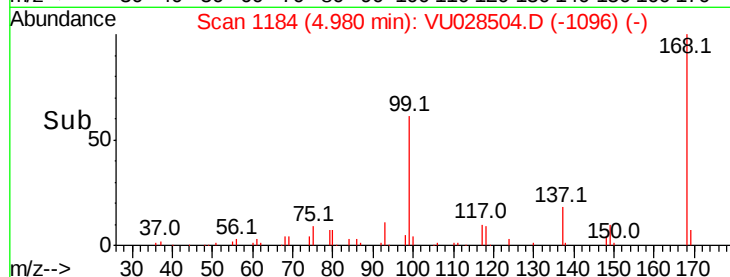
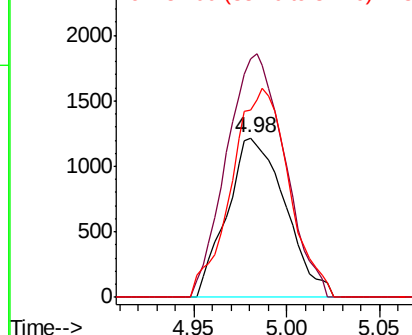
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 56 Resp: 2654

Ion	Ratio	Lower	Upper
56	100		
69	149.5	24.0	36.0#
84	117.7	59.7	89.5#



Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0



#32

1,1,1-Trichloroethane

Concen: 1.061 ug/l

RT: 4.92 min Scan# 1165

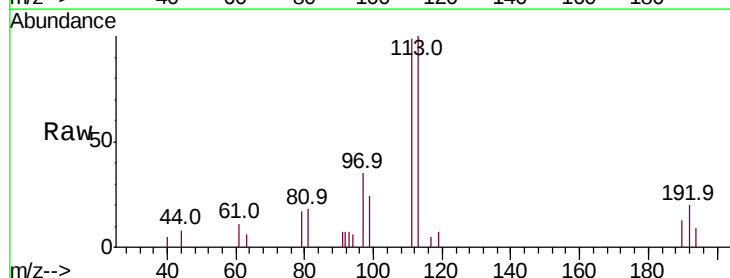
Delta R.T. 0.00 min

Lab File: VU028504.D

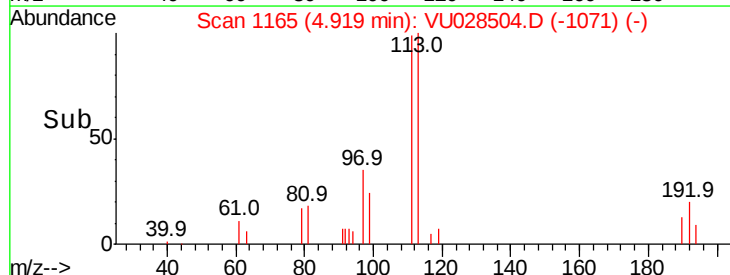
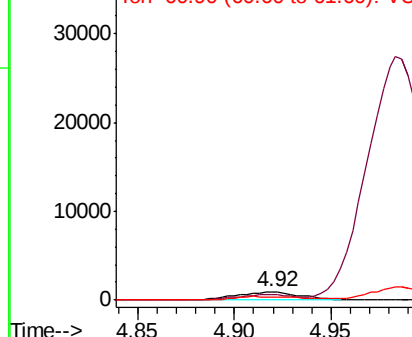
Acq: 06 Dec 2018 16:35

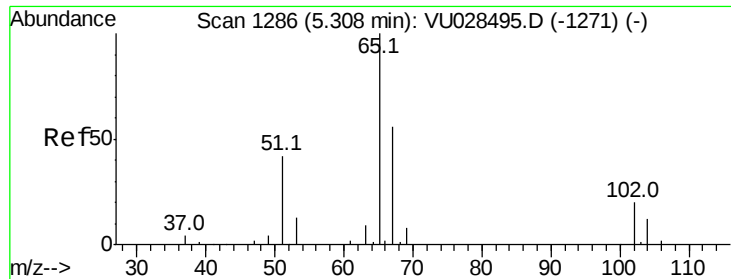
Tgt Ion: 97 Resp: 2124

Ion	Ratio	Lower	Upper
97	100		
99	0.0	52.3	78.5#
61	23.1	39.0	58.6#



Abundance Ion 96.90 (96.60 to 97.60): VU0
Ion 98.90 (98.60 to 99.60): VU0
Ion 60.90 (60.60 to 61.60): VU0

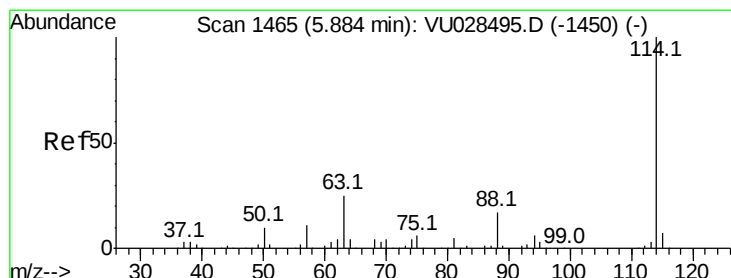
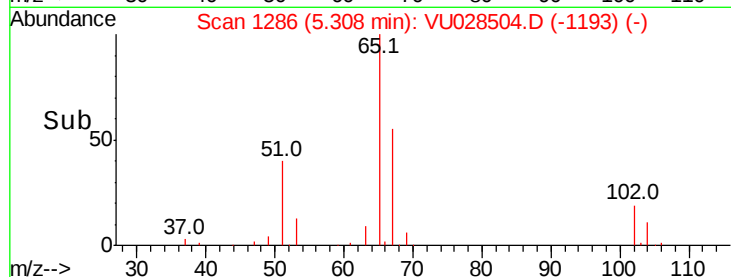
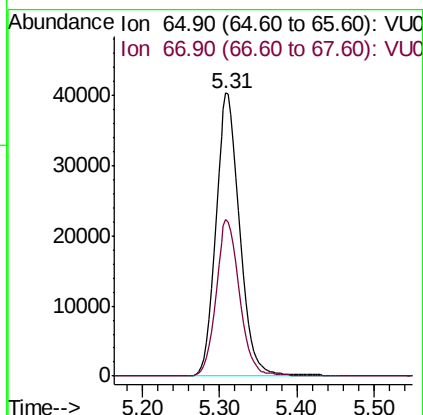
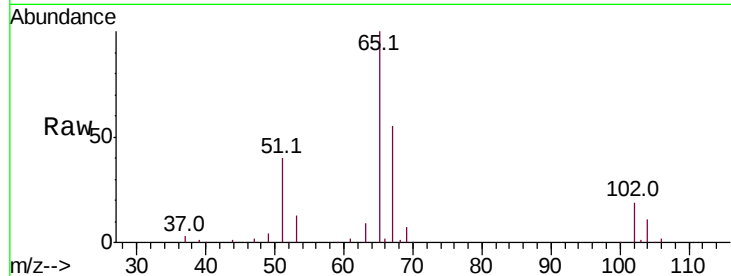




#33
 1,2-Dichloroethane-d4
 Concen: 55.323 ug/l
 RT: 5.31 min Scan# 1286
 Delta R.T. -0.00 min
 Lab File: VU028504.D
 Acq: 06 Dec 2018 16:35

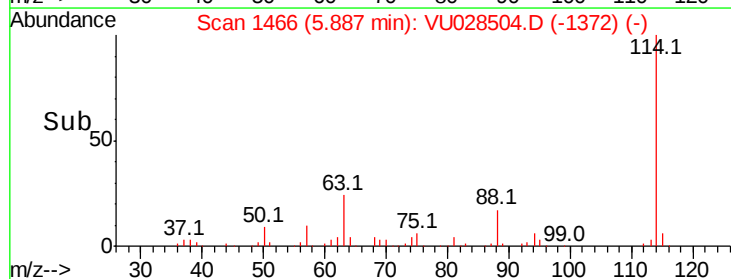
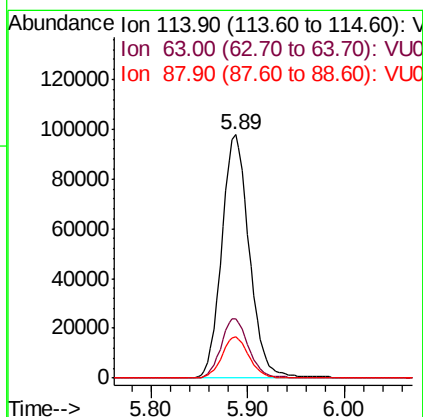
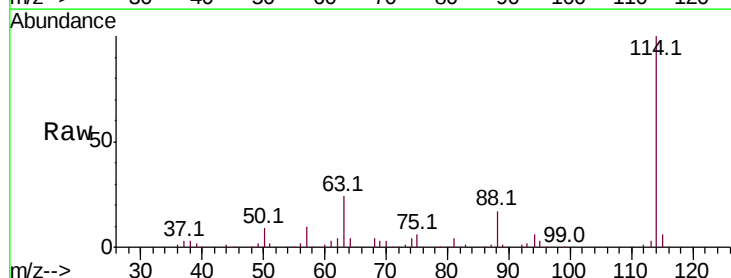
Instrument :
 MSVOA_U
 ClientSampleId :

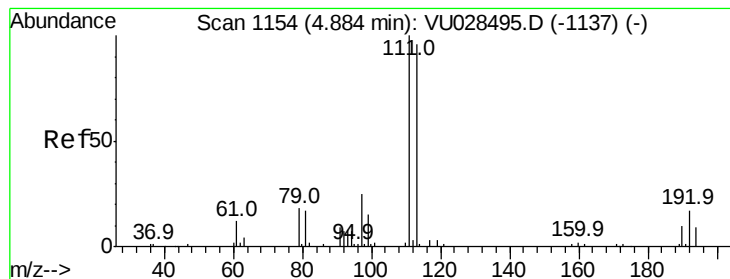
Tot Ion: 65 Resp: 87057
 Ion Ratio Lower Upper
 65 100
 67 54.6 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. 0.00 min
 Lab File: VU028504.D
 Acq: 06 Dec 2018 16:35

Tgt Ion:114 Resp: 194113
 Ion Ratio Lower Upper
 114 100
 63 24.3 0.0 49.2
 88 16.8 0.0 33.4





#35

Dibromofluoromethane

Concen: 52.117 ug/l

RT: 4.88 min Scan# 1154

Delta R.T. -0.00 min

Lab File: VU028504.D

Acq: 06 Dec 2018 16:35

Instrument :
MSVOA_U
ClientSampleId :

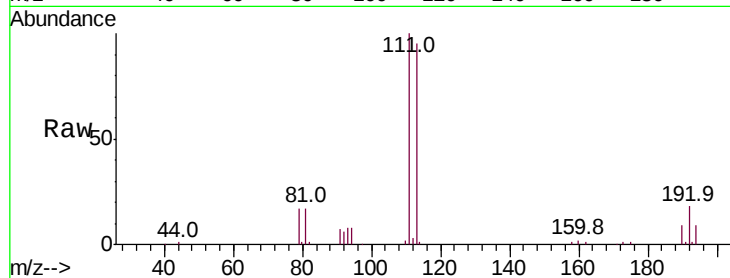
Tot Ion:113 Resp: 63664

Ion Ratio Lower Upper

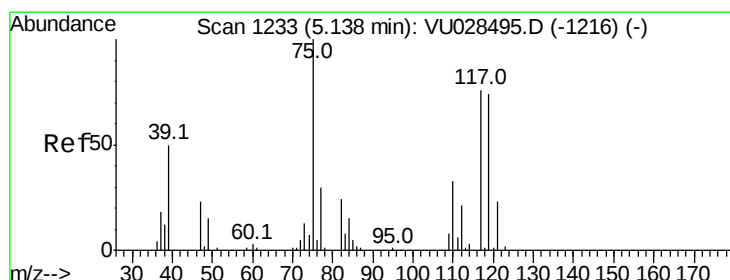
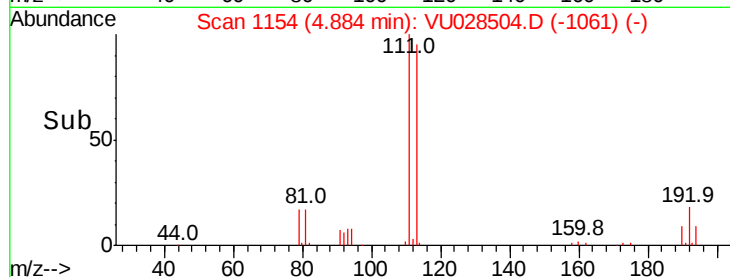
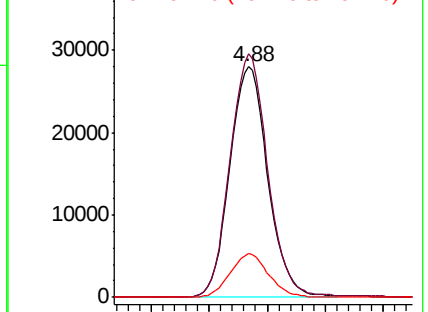
113 100

111 104.8 83.4 125.0

192 19.0 14.8 22.2



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.280 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU028504.D

Acq: 06 Dec 2018 16:35

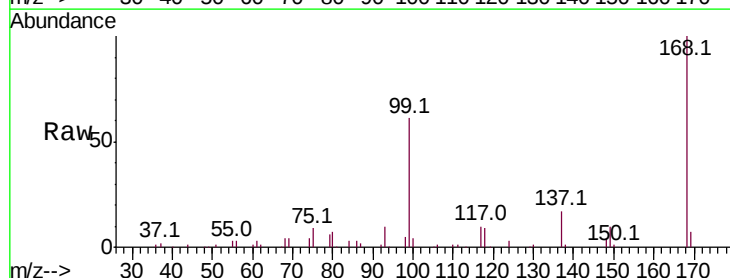
Tgt Ion: 75 Resp: 9092

Ion Ratio Lower Upper

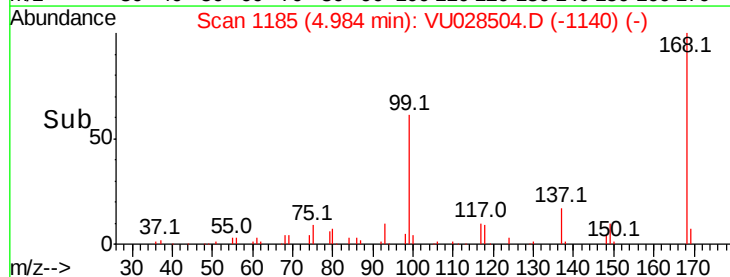
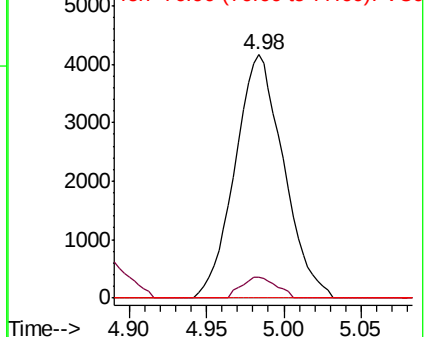
75 100

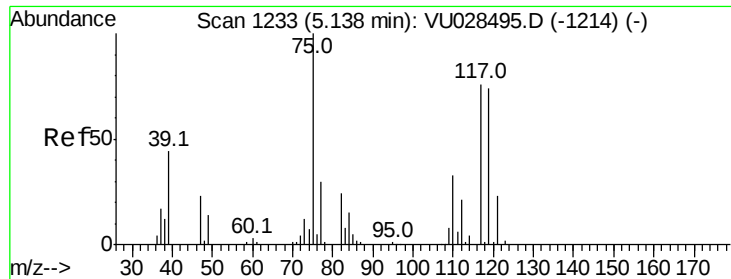
110 6.1 16.1 48.2#

77 0.0 24.5 36.7#



Abundance Ion 74.90 (74.60 to 75.60): VU0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VU0





#38

Carbon Tetrachloride

Concen: 5.885 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU028504.D

Acq: 06 Dec 2018 16:35

Instrument :
MSVOA_U
ClientSampled :

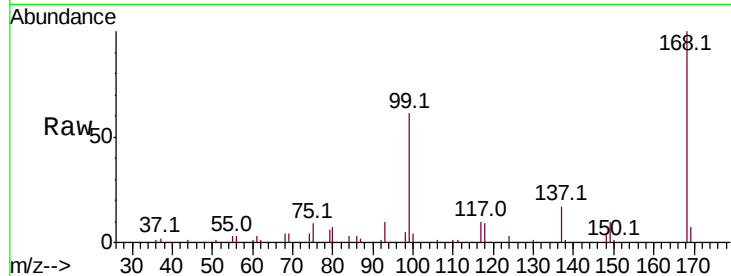
Tot Ion:117 Resp: 10076

Ion Ratio Lower Upper

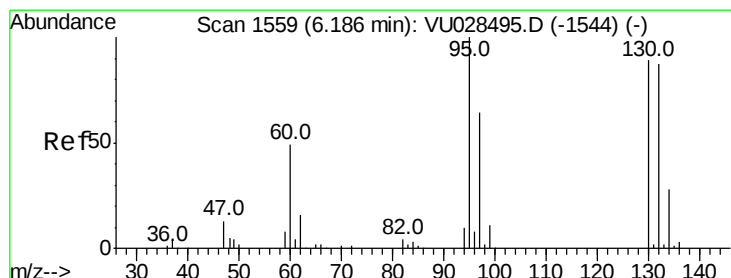
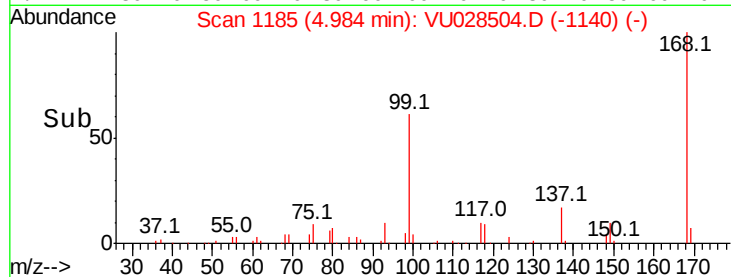
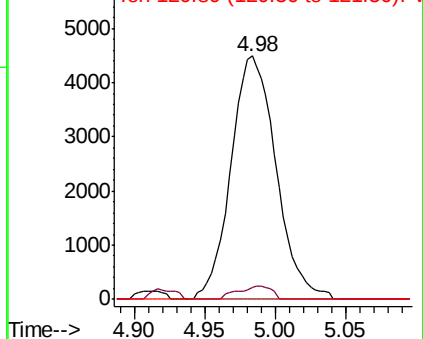
117 100

119 4.8 77.6 116.4#

121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V



#44

Trichloroethene

Concen: 4.298 ug/l

RT: 6.19 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VU028504.D

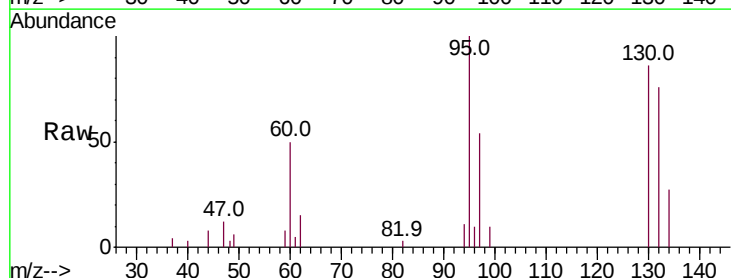
Acq: 06 Dec 2018 16:35

Tgt Ion:130 Resp: 5978

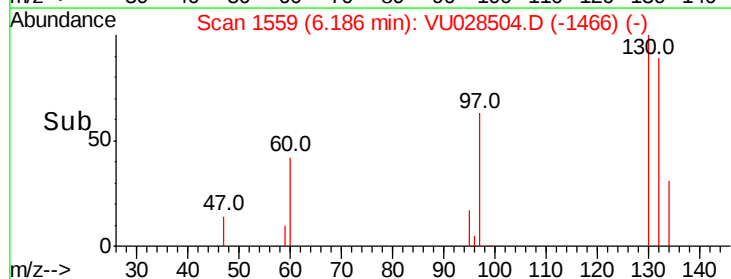
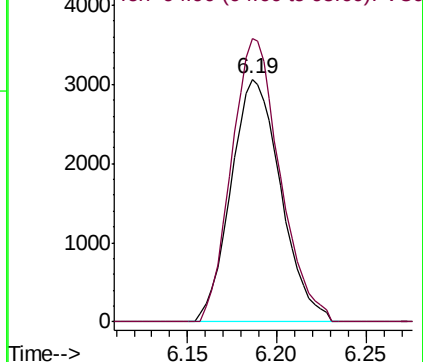
Ion Ratio Lower Upper

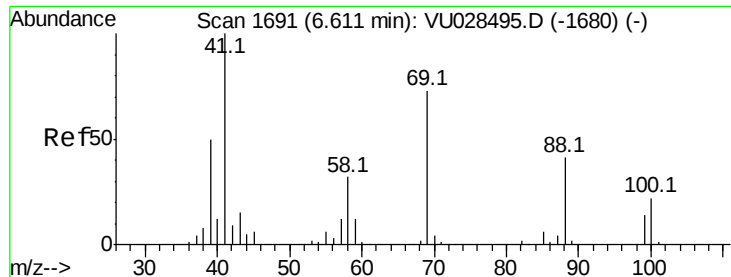
130 100

95 116.8 0.0 224.0



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): VU0





#49

1,4-Dioxane

Concen: 4.780 ug/l

RT: 6.62 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VU028504.D

Acq: 06 Dec 2018 16:35

Instrument :
MSVOA_U
ClientSampled :

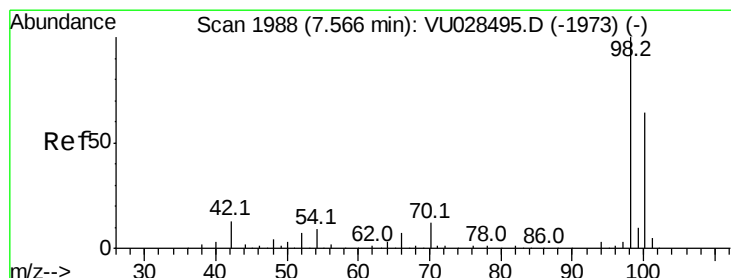
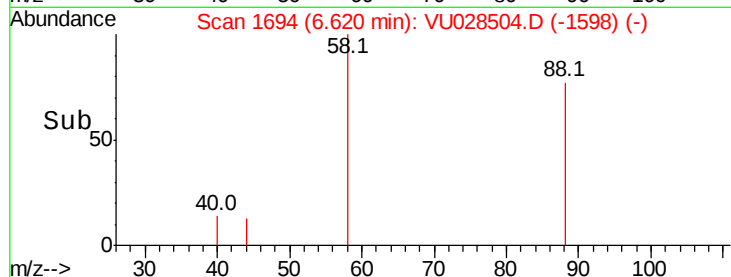
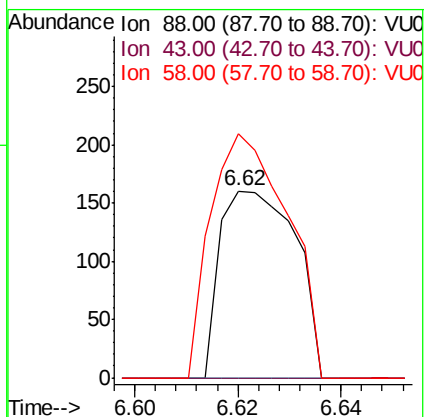
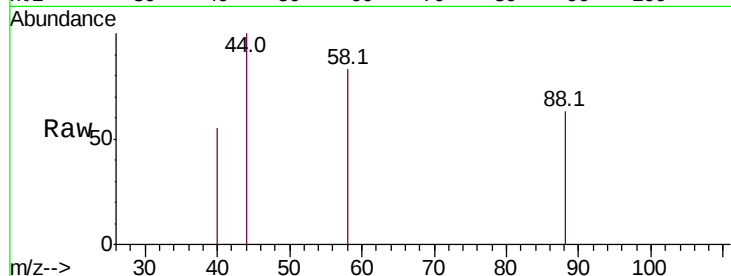
Tot Ion: 88 Resp: 163

Ion Ratio Lower Upper

88 100

43 0.0 30.9 46.3#

58 132.5 62.4 93.6#



#50

Toluene-d8

Concen: 52.320 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VU028504.D

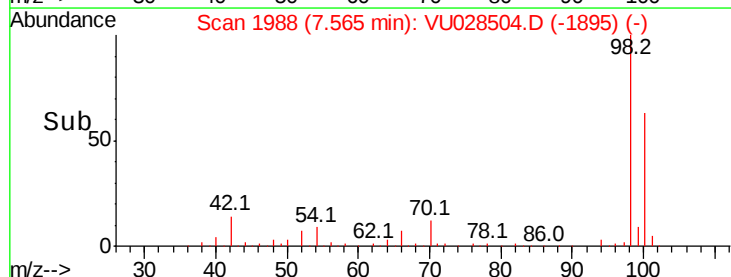
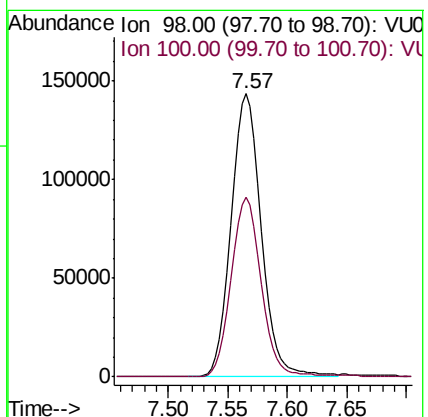
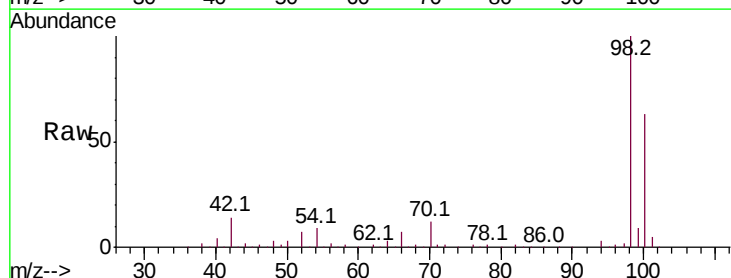
Acq: 06 Dec 2018 16:35

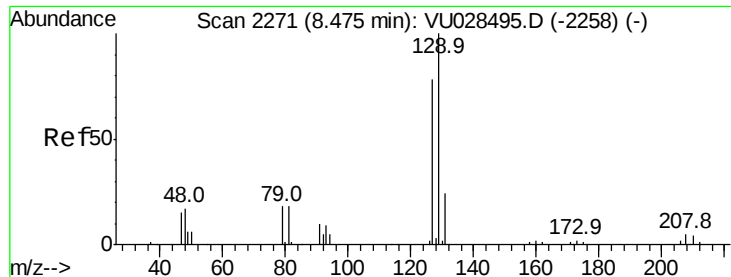
Tgt Ion: 98 Resp: 252824

Ion Ratio Lower Upper

98 100

100 63.2 51.0 76.6





#60

Dibromochloromethane

Concen: 0.788 ug/l

RT: 8.22 min Scan# 2193

Delta R.T. -0.25 min

Lab File: VU028504.D

Acq: 06 Dec 2018 16:35

Instrument :

MSVOA_U

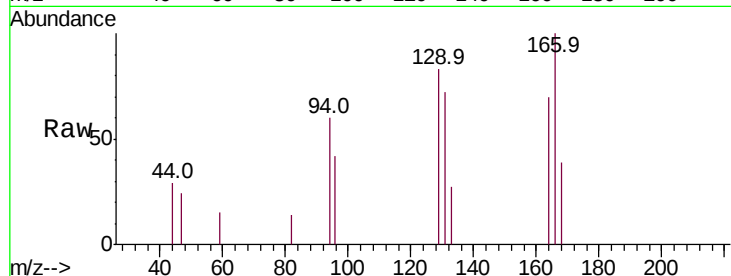
ClientSampled :

Tot Ion:129 Resp: 1123

Ion Ratio Lower Upper

129 100

127 0.0 39.1 117.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

8.22

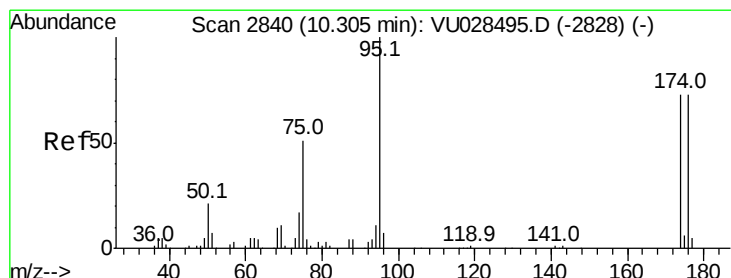
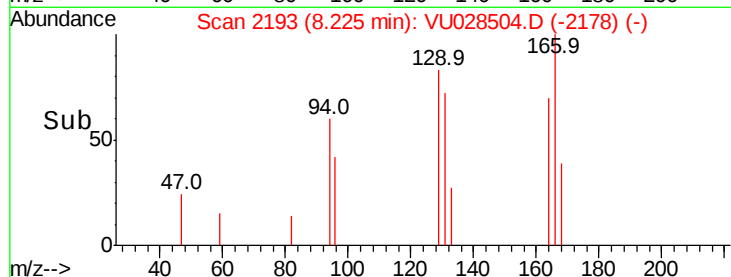
600

400

200

0

Time--> 8.18 8.20 8.22 8.24 8.26



#62

4-Bromofluorobenzene

Concen: 50.043 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.00 min

Lab File: VU028504.D

Acq: 06 Dec 2018 16:35

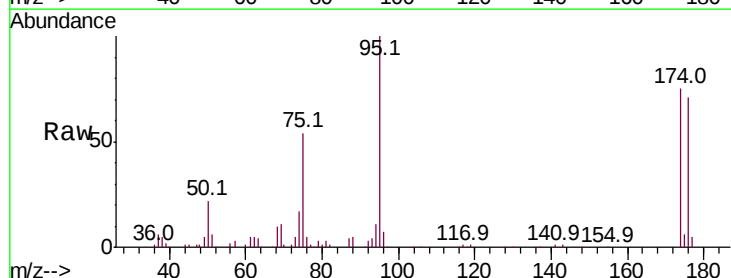
Tgt Ion: 95 Resp: 90385

Ion Ratio Lower Upper

95 100

174 75.7 0.0 150.4

176 72.1 0.0 145.2



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

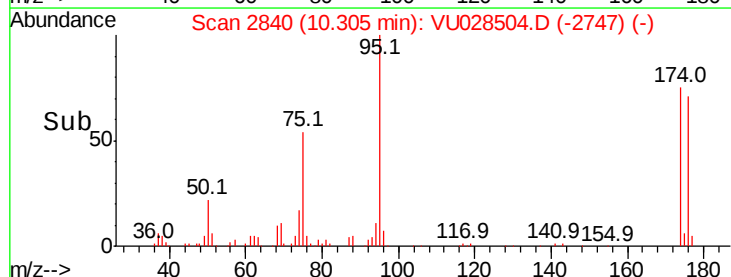
60000

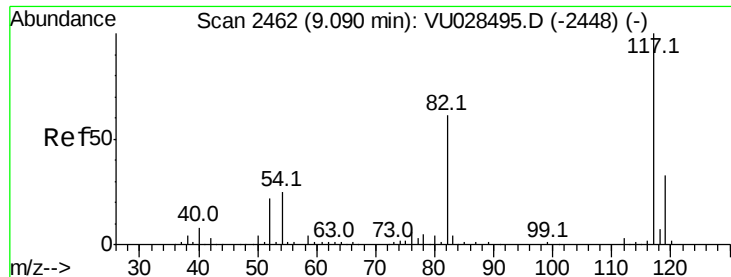
40000

20000

0

Time--> 10.30 10.40

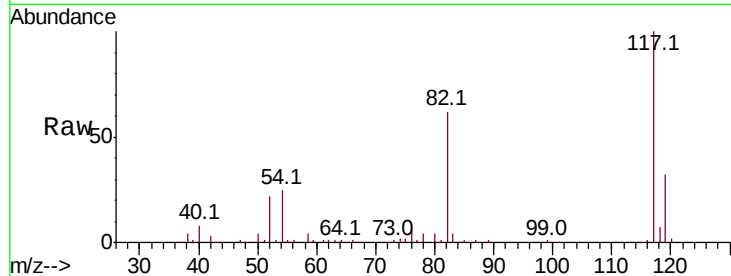




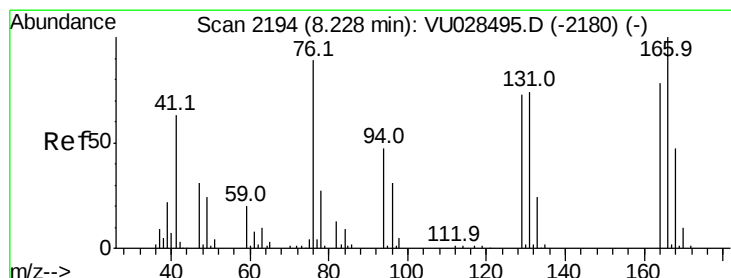
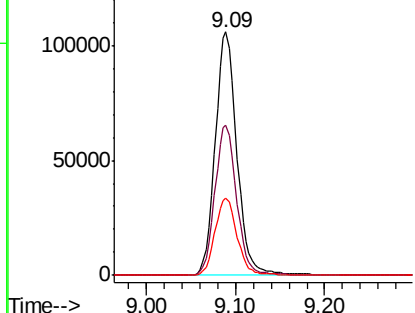
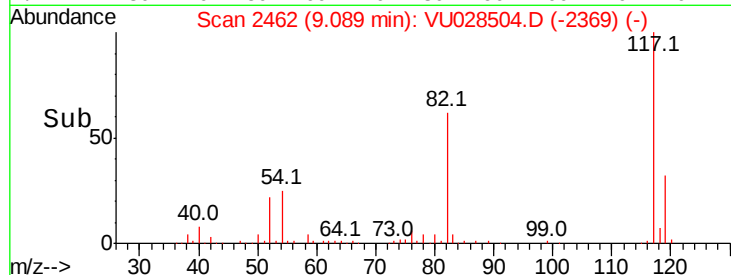
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028504.D
Acq: 06 Dec 2018 16:35

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:117 Resp: 178480
Ion Ratio Lower Upper
117 100
82 61.6 48.9 73.3
119 31.7 26.2 39.4

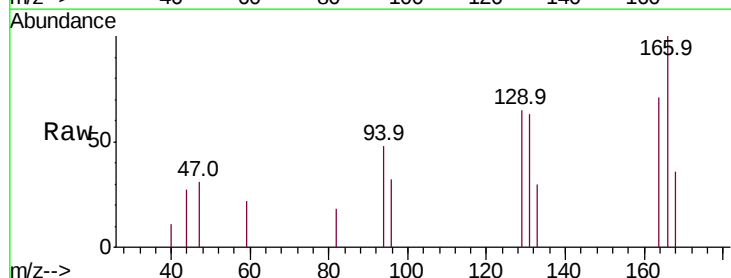


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

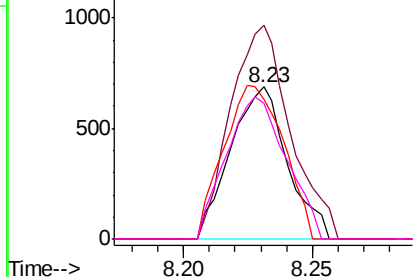
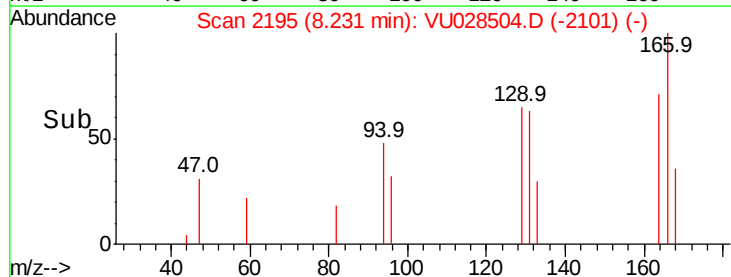


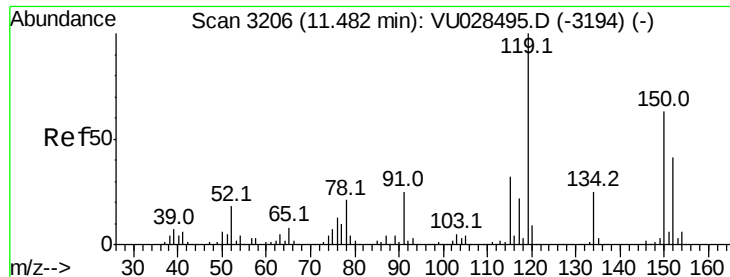
#64
Tetrachloroethene
Concen: 0.891 ug/l
RT: 8.23 min Scan# 2195
Delta R.T. 0.00 min
Lab File: VU028504.D
Acq: 06 Dec 2018 16:35

Tgt Ion:164 Resp: 1061
Ion Ratio Lower Upper
164 100
166 140.8 101.9 152.9
129 92.0 74.9 112.3
131 89.1 75.4 113.0



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3206

Delta R.T. -0.00 min

Lab File: VU028504.D

Acq: 06 Dec 2018 16:35

Instrument :

MSVOA_U

ClientSampleId :

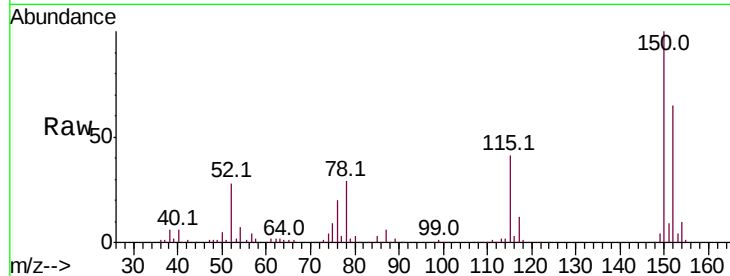
Tot Ion:152 Resp: 81315

Ion Ratio Lower Upper

152 100

115 62.4 42.7 128.1

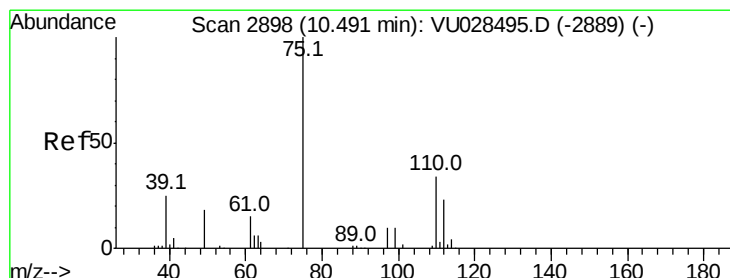
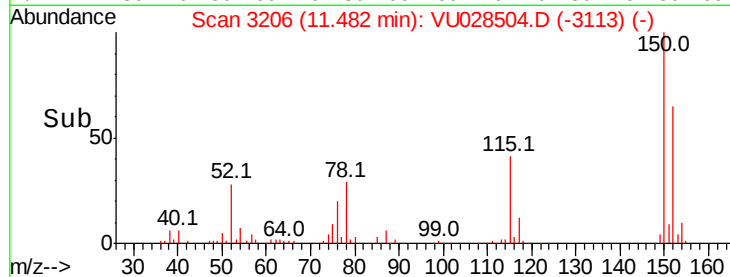
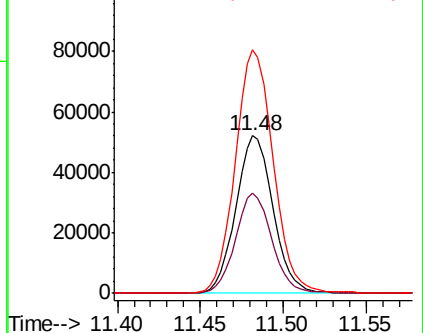
150 158.9 0.0 346.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 22.981 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU028504.D

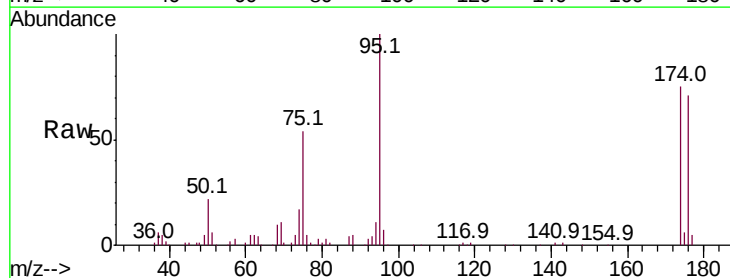
Acq: 06 Dec 2018 16:35

Tgt Ion: 75 Resp: 47717

Ion Ratio Lower Upper

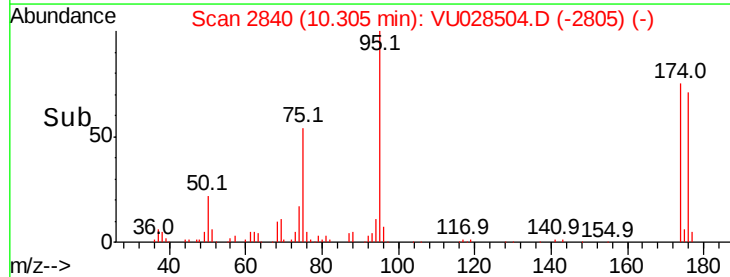
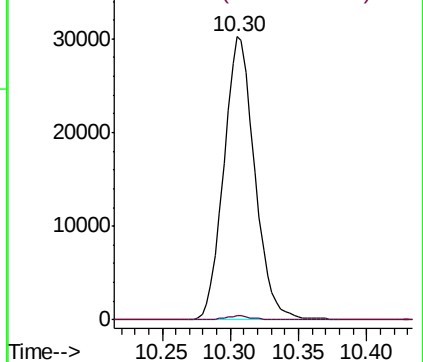
75 100

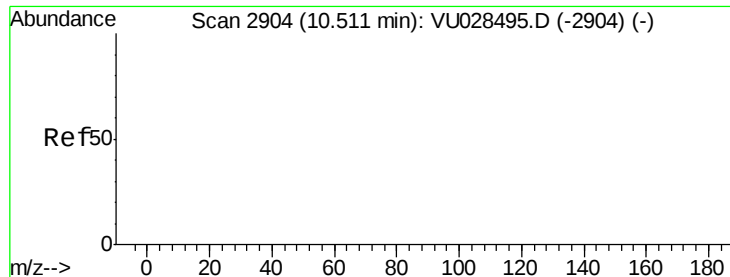
77 1.2 20.8 62.4#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

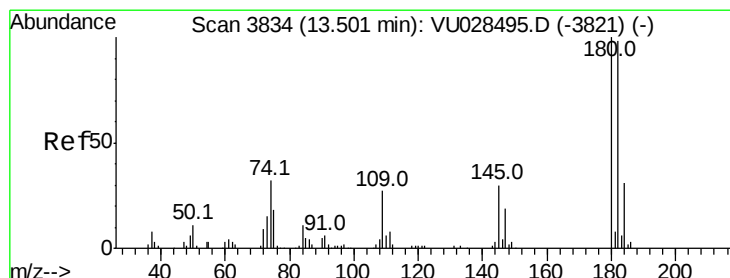
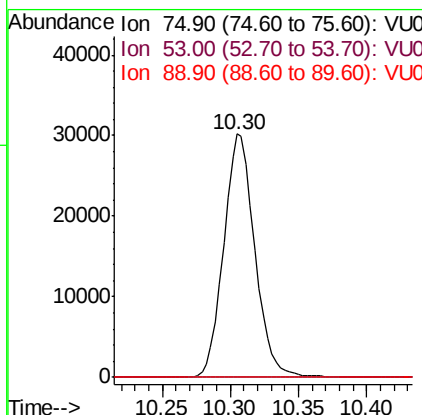
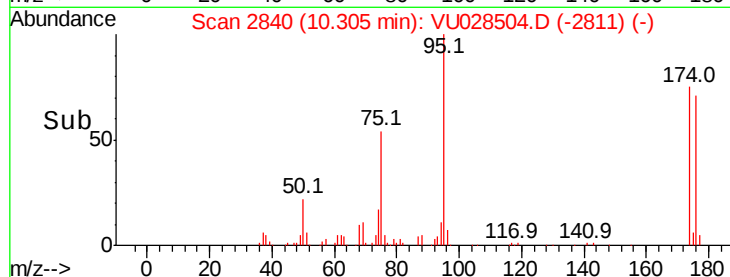
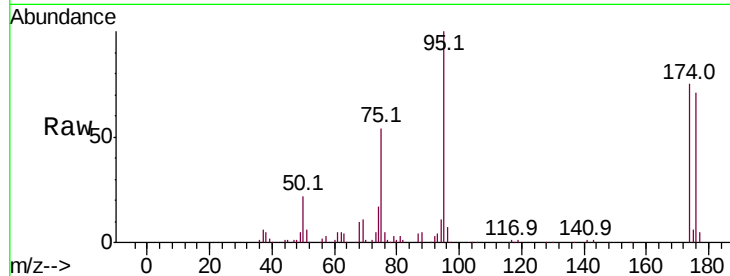




#81
trans-1,4-Dichloro-2-butene
Concen: 56.434 ug/l
RT: 10.30 min Scan# 2840
Delta R.T. -0.21 min
Lab File: VU028504.D
Acq: 06 Dec 2018 16:35

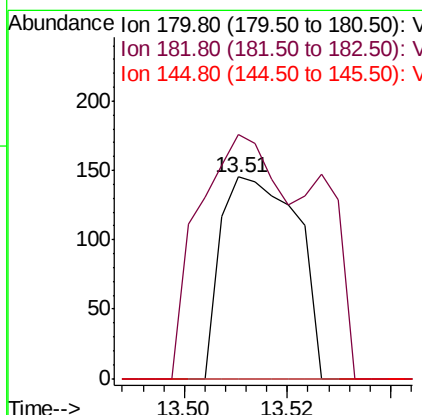
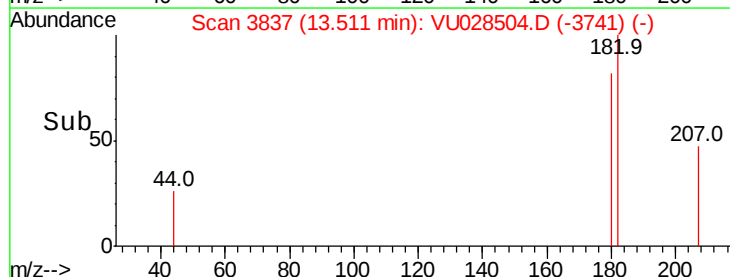
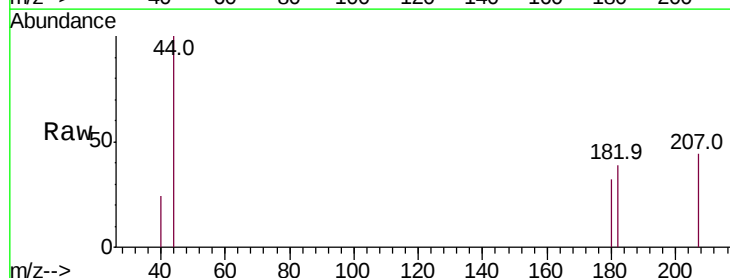
Instrument :
MSVOA_U
ClientSampleId :

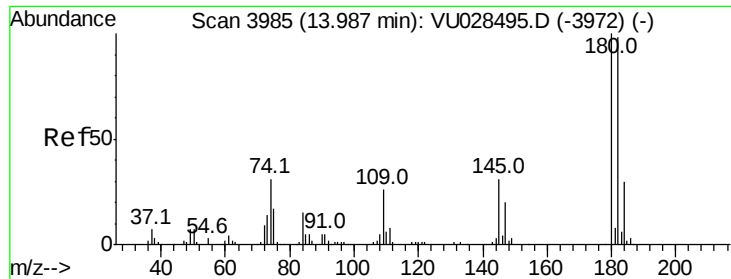
Tot Ion: 75 Resp: 47717
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0
89 0.1 0.0 0.0#



#93
1,2,4-Trichlorobenzene
Concen: 0.921 ug/l
RT: 13.51 min Scan# 3837
Delta R.T. 0.01 min
Lab File: VU028504.D
Acq: 06 Dec 2018 16:35

Tgt Ion:180 Resp: 149
Ion Ratio Lower Upper
180 100
182 130.9 47.9 143.8
145 0.0 15.0 45.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.233 ug/l
 RT: 13.99 min Scan# 3986
 Delta R.T. 0.00 min
 Lab File: VU028504.D
 Acq: 06 Dec 2018 16:35

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180 Resp: 164
 Ion Ratio Lower Upper
 180 100
 182 41.5 48.2 144.6#
 145 0.0 15.8 47.3#

