

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U110218\
 Data File : VU027936.D
 Acq On : 02 Nov 2018 19:09
 Operator : MD/SY
 Sample : J5755-08
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 TP-2A-S

Quant Time: Nov 03 04:25:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U110218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 02 02:28:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	190383	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	335778	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	297541	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	122015	50.00	ug/l	0.00

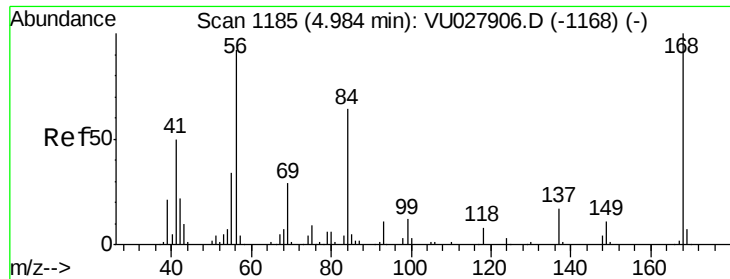
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	146819	51.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.74%	
35) Dibromofluoromethane	4.89	113	108249	51.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.26%	
50) Toluene-d8	7.57	98	432913	52.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.86%	
62) 4-Bromofluorobenzene	10.31	95	142502	47.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.48%	

Target Compounds

					Qvalue	
6) Chloroethane	1.70	64	406	0.243	ug/l #	42
11) Tert butyl alcohol	2.84	59	363	0.484	ug/l #	73
13) Acrolein	2.20	56	44	Below Cal	#	1
14) Allyl chloride	2.70	41	14964	3.069	ug/l #	27
16) Acetone	2.32	43	21059	11.992	ug/l	92
18) Methyl Acetate	2.62	43	4880	1.010	ug/l #	90
20) Methylene Chloride	2.70	84	282738	110.267	ug/l	97
25) 2-Butanone	4.29	43	2142	0.767	ug/l #	90
29) Tetrahydrofuran	4.66	42	1180	0.633	ug/l #	61
30) Chloroform	4.68	83	2400	0.522	ug/l	87
31) Cyclohexane	4.99	56	4718	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	16427	4.671	ug/l #	49
38) Carbon Tetrachloride	4.99	117	18271	5.863	ug/l #	17
43) Isopropyl Acetate	5.55	43	194688	24.116	ug/l	100
47) Bromodichloromethane	6.76	83	773	0.225	ug/l #	73
48) Methyl methacrylate	6.71	41	16298	4.120	ug/l #	44
51) 4-Methyl-2-Pentanone	7.47	43	1716	0.318	ug/l	98
54) cis-1,3-Dichloropropene	7.42	75	1032	0.244	ug/l #	79
55) 1,1,2-Trichloroethane	8.19	97	1031	0.401	ug/l #	12
59) 2-Hexanone	8.42	43	12251	2.938	ug/l #	52
76) 1,2,3-Trichloropropane	10.31	75	72510	21.726	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	72510	54.223	ug/l #	100
92) 1,2-Dibromo-3-Chloropropan	12.48	75	292	0.363	ug/l #	4
95) Naphthalene	13.75	128	18097	1.633	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU027936.D

Acq: 02 Nov 2018 19:09

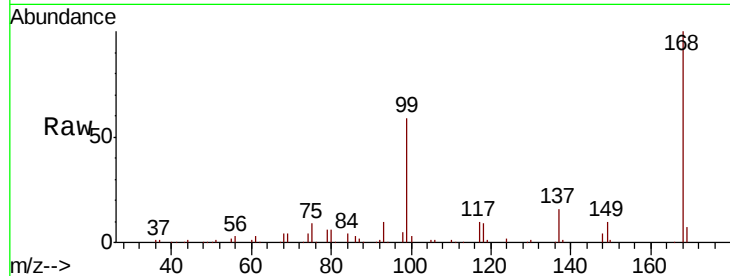
Instrument :
MSVOA_U
ClientSampleId :
TP-2A-S

Tot Ion:168 Resp: 190383

Ion Ratio Lower Upper

168 100

99 58.8 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VU027906.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU027906.D (-1168) (-)

4.99

80000

60000

40000

20000

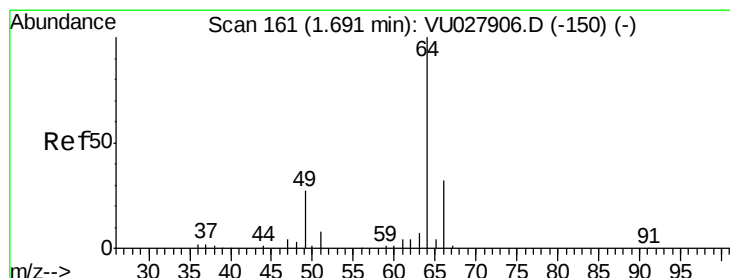
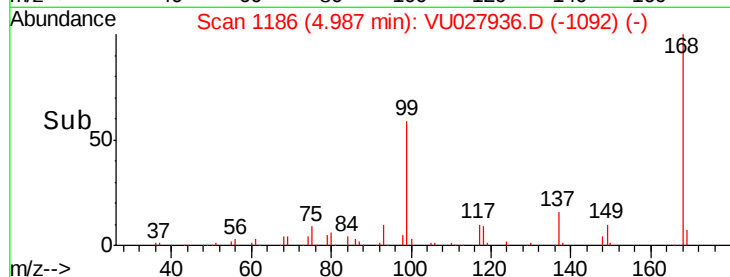
0

4.90

5.00

5.10

Time-->



#6

Chloroethane

Concen: 0.243 ug/l

RT: 1.70 min Scan# 165

Delta R.T. 0.01 min

Lab File: VU027936.D

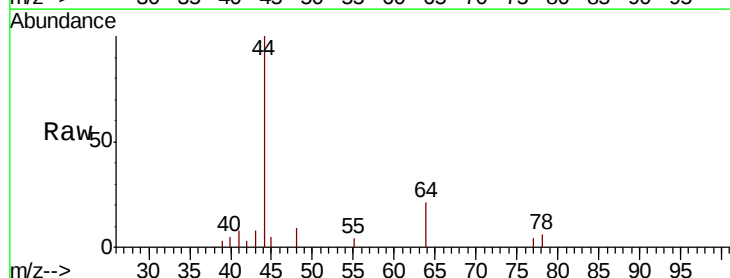
Acq: 02 Nov 2018 19:09

Tgt Ion: 64 Resp: 406

Ion Ratio Lower Upper

64 100

66 0.0 25.9 38.9#



Abundance Ion 63.90 (63.60 to 64.60): VU027906.D (-150) (-)

Ion 65.90 (65.60 to 66.60): VU027906.D (-150) (-)

1.70

800

600

400

200

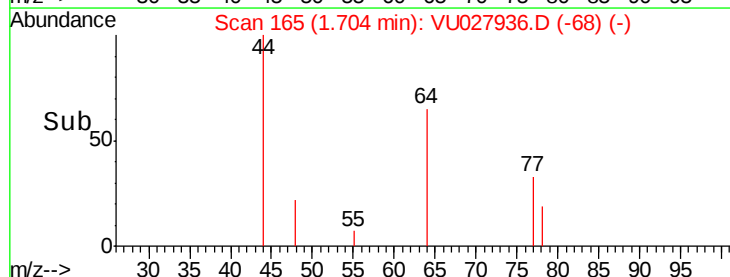
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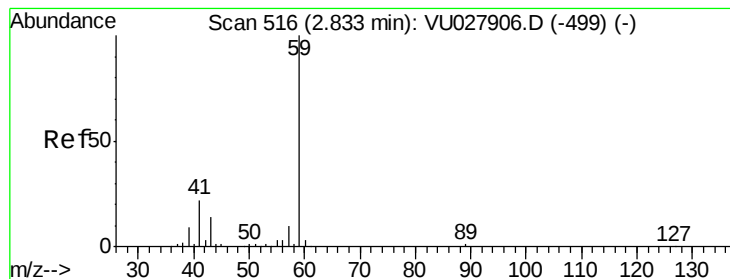
1.68

1.70

1.72

Time-->



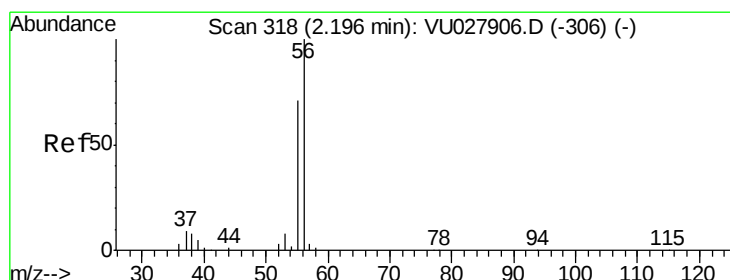
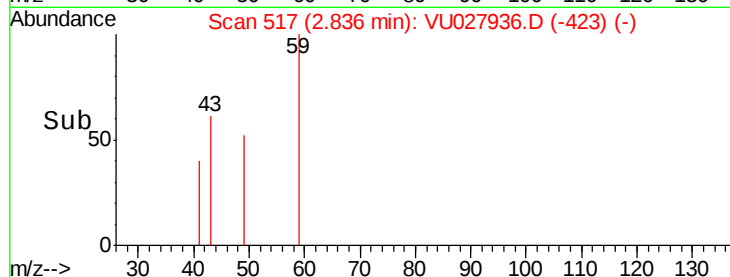
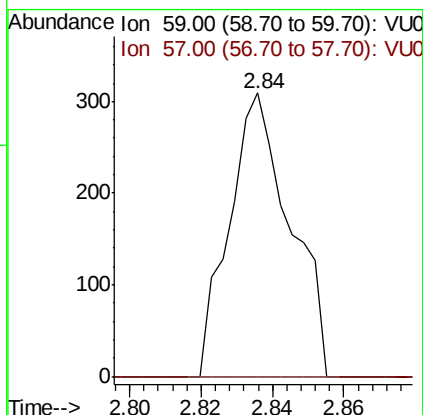
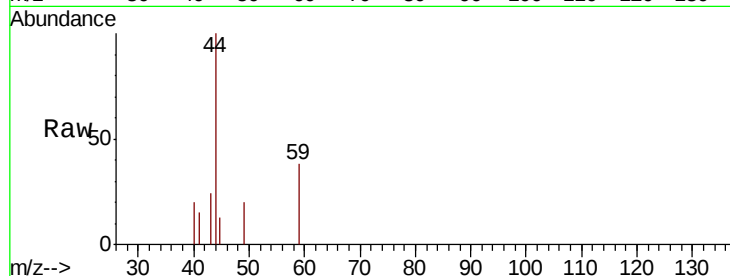


#11

Tert butyl alcohol
 Concen: 0.484 ug/l
 RT: 2.84 min Scan# 517
 Delta R.T. 0.00 min
 Lab File: VU027936.D
 Acq: 02 Nov 2018 19:09

Instrument :
 MSVOA_U
 ClientSampleId :
 TP-2A-S

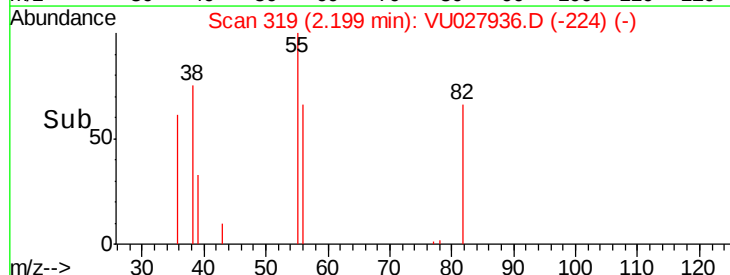
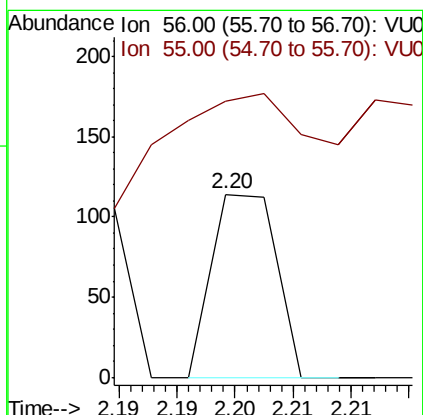
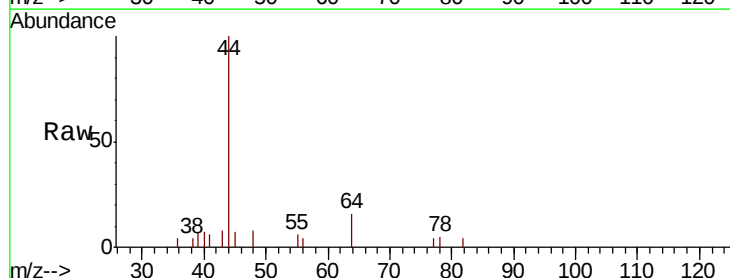
Tot Ion: 59 Resp: 363
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.8#

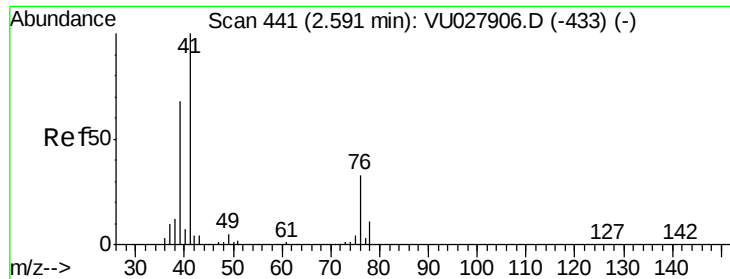


#13

Acrolein
 Concen: Below Cal
 RT: 2.20 min Scan# 319
 Delta R.T. 0.00 min
 Lab File: VU027936.D
 Acq: 02 Nov 2018 19:09

Tgt Ion: 56 Resp: 44
 Ion Ratio Lower Upper
 56 100
 55 463.6 56.2 84.4#

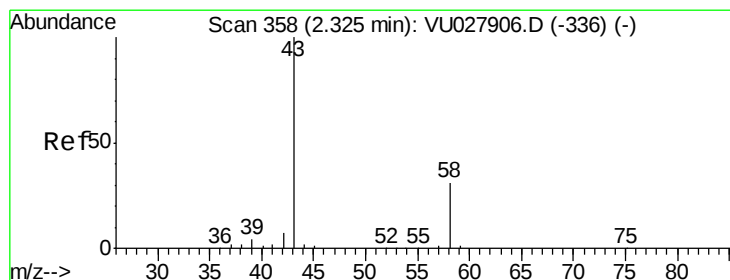
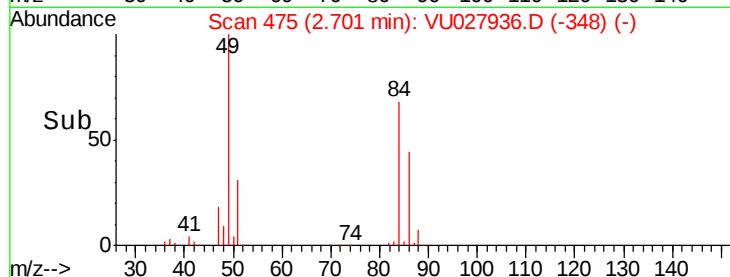
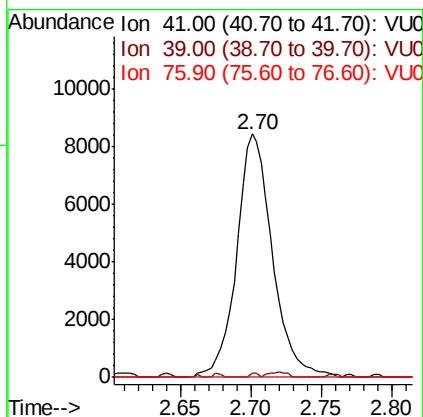
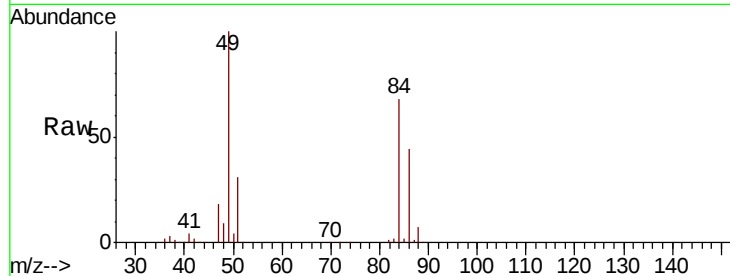




#14
Allvl chloride
Concen: 3.069 ug/l
RT: 2.70 min Scan# 475
Delta R.T. 0.11 min
Lab File: VU027936.D
Acq: 02 Nov 2018 19:09

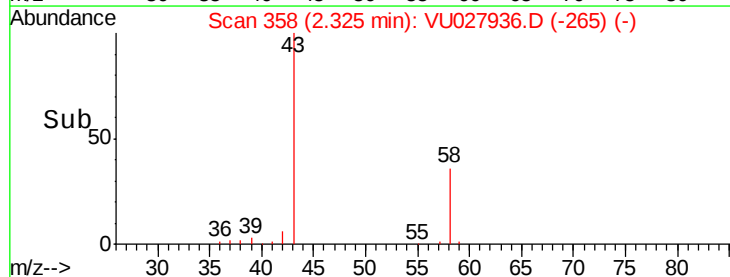
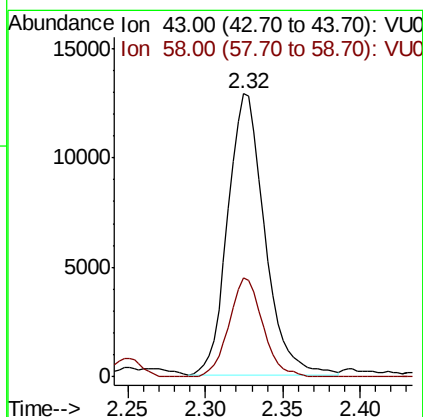
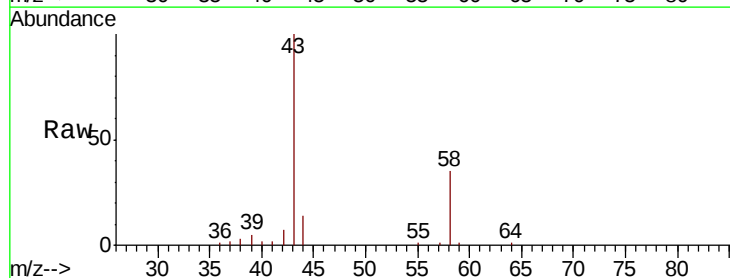
Instrument :
MSVOA_U
ClientSampleId :
TP-2A-S

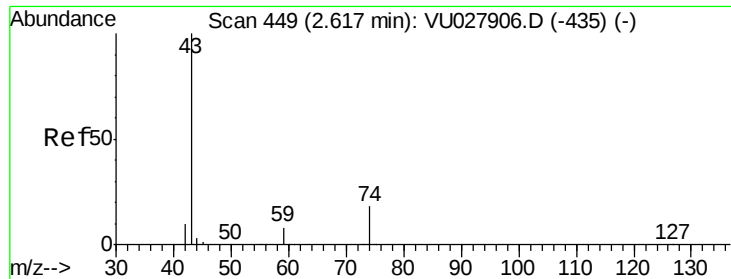
Tot Ion: 41 Resp: 14964
Ion Ratio Lower Upper
41 100
39 0.4 51.9 77.9#
76 0.0 23.8 35.6#



#16
Acetone
Concen: 11.992 ug/l
RT: 2.32 min Scan# 358
Delta R.T. 0.00 min
Lab File: VU027936.D
Acq: 02 Nov 2018 19:09

Tgt Ion: 43 Resp: 21059
Ion Ratio Lower Upper
43 100
58 35.1 24.6 37.0

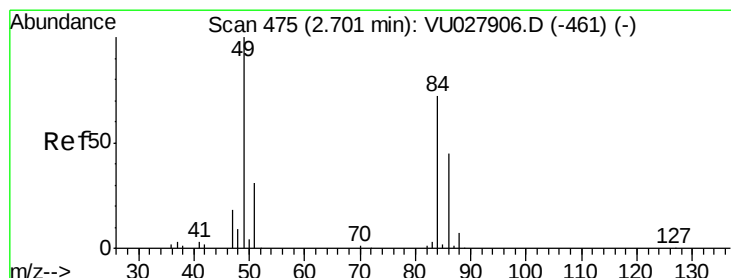
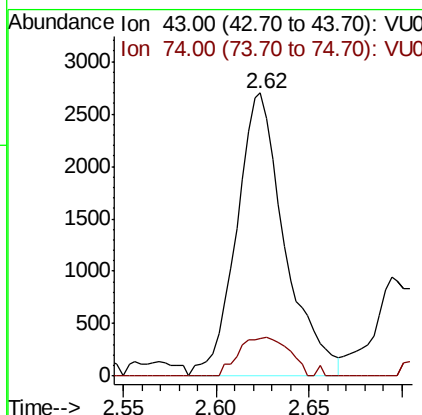
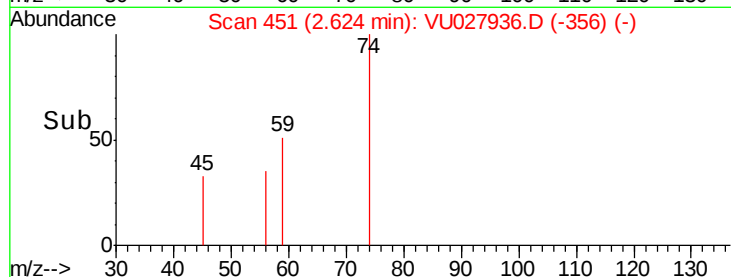
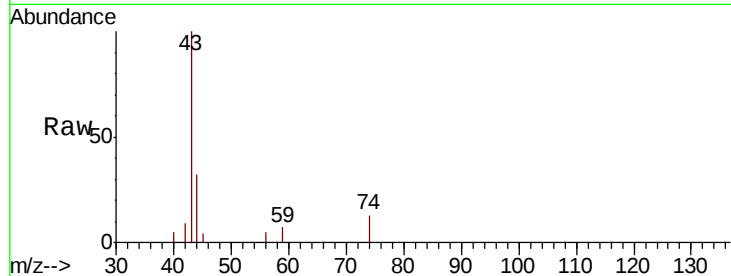




#18
Methyl Acetate
Concen: 1.010 ug/l
RT: 2.62 min Scan# 451
Delta R.T. 0.01 min
Lab File: VU027936.D
Acq: 02 Nov 2018 19:09

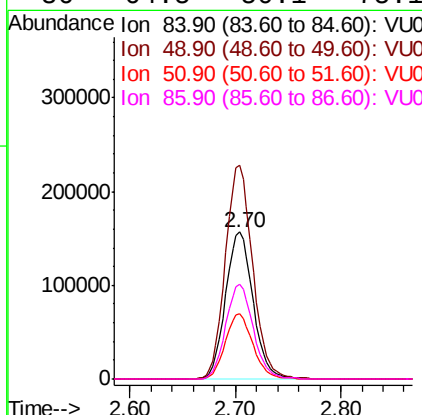
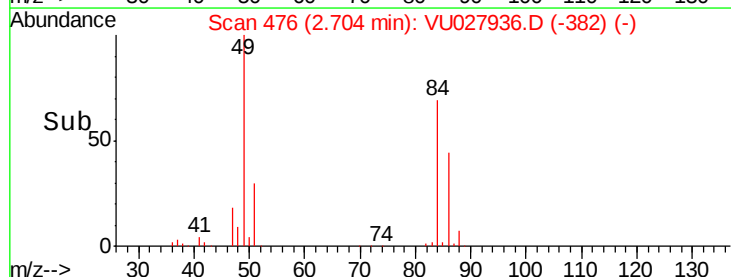
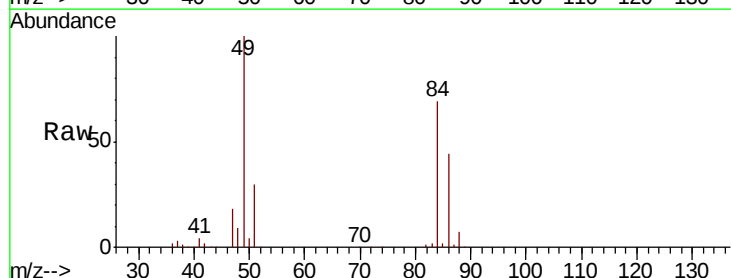
Instrument :
MSVOA_U
ClientSampleId :
TP-2A-S

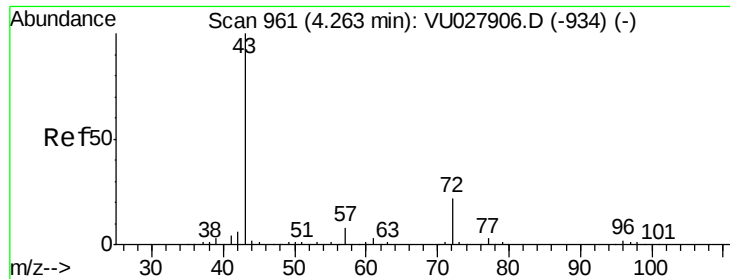
Tot Ion: 43 Resp: 4880
Ion Ratio Lower Upper
43 100
74 14.3 14.9 22.3#



#20
Methylene Chloride
Concen: 110.267 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU027936.D
Acq: 02 Nov 2018 19:09

Tgt Ion: 84 Resp: 282738
Ion Ratio Lower Upper
84 100
49 145.2 111.6 167.4
51 44.0 34.8 52.2
86 64.5 50.1 75.1





#25

2-Butanone

Concen: 0.767 ug/l

RT: 4.29 min Scan# 969

Delta R.T. 0.03 min

Lab File: VU027936.D

Acq: 02 Nov 2018 19:09

Instrument :

MSVOA_U

ClientSampleId :

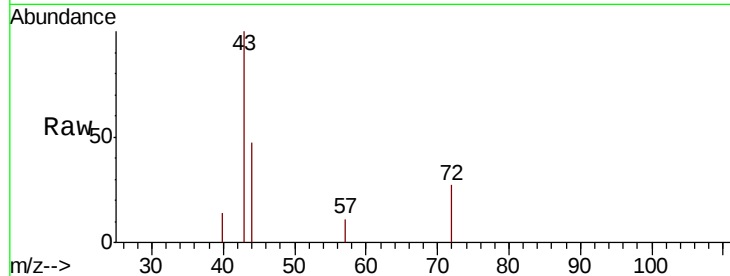
TP-2A-S

Tot Ion: 43 Resp: 2142

Ion Ratio Lower Upper

43 100

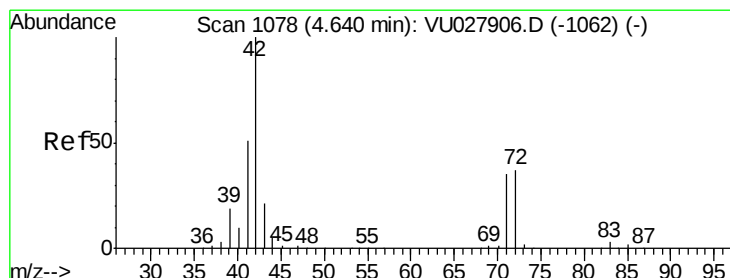
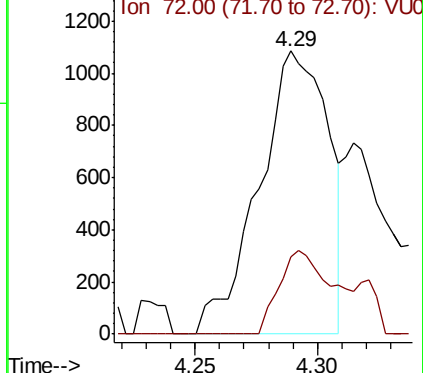
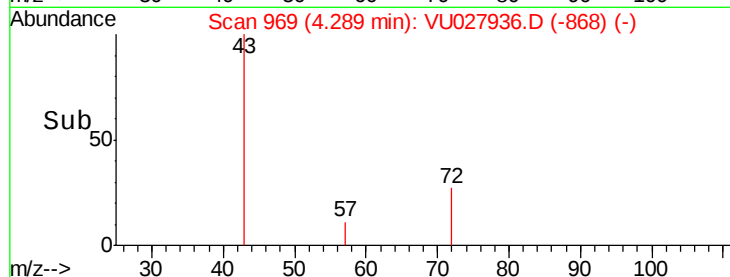
72 27.1 17.7 26.5#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

Time-->



#29

Tetrahydrofuran

Concen: 0.633 ug/l

RT: 4.66 min Scan# 1084

Delta R.T. 0.02 min

Lab File: VU027936.D

Acq: 02 Nov 2018 19:09

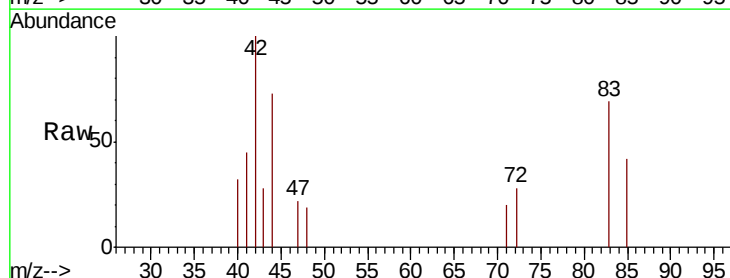
Tgt Ion: 42 Resp: 1180

Ion Ratio Lower Upper

42 100

72 12.2 29.4 44.0#

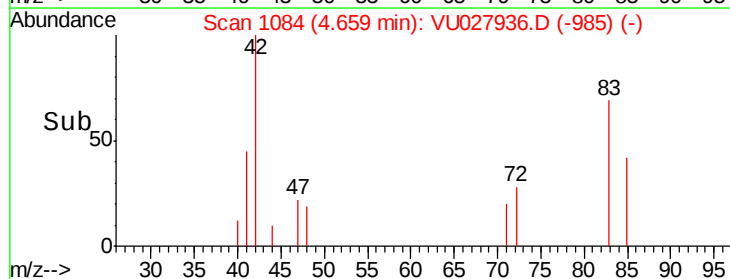
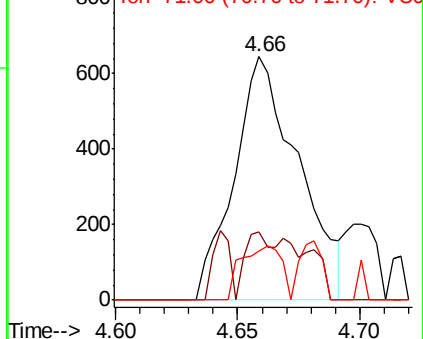
71 13.9 27.9 41.9#

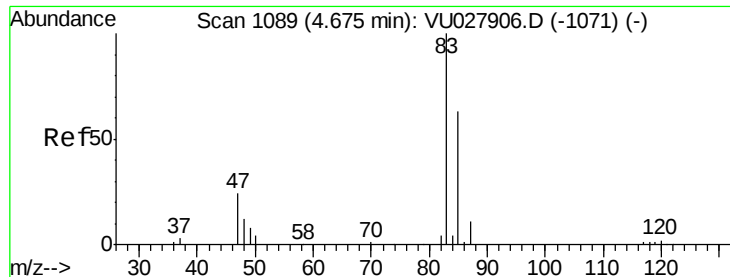


Abundance Ion 42.00 (41.70 to 42.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

Ion 71.00 (70.70 to 71.70): VU0

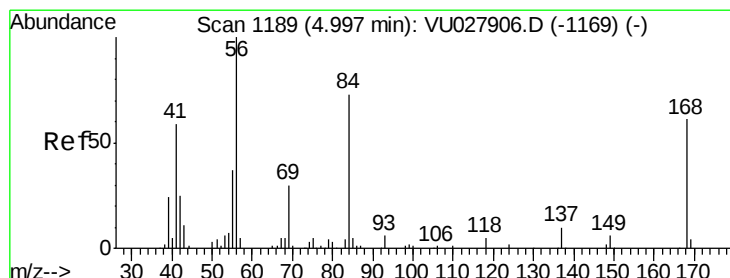
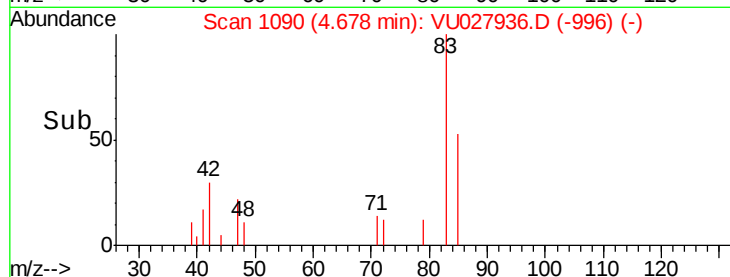
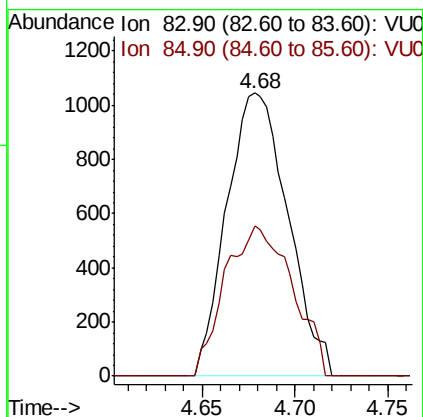
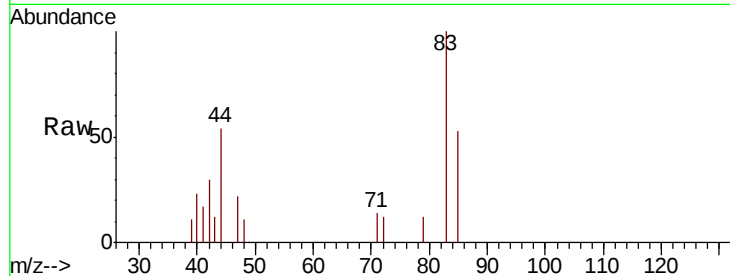




#30
Chloroform
Concen: 0.522 ug/l
RT: 4.68 min Scan# 1090
Delta R.T. 0.00 min
Lab File: VU027936.D
Acq: 02 Nov 2018 19:09

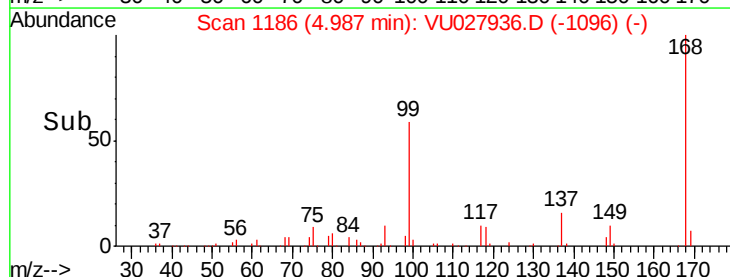
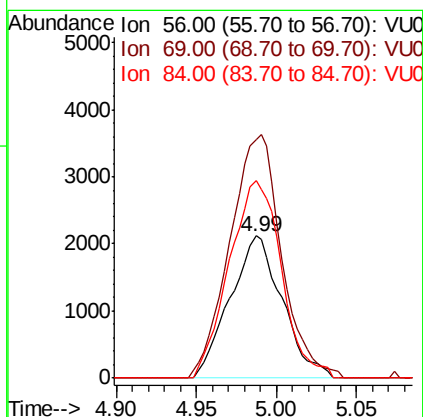
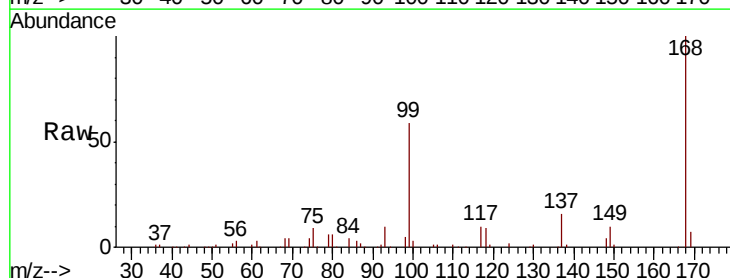
Instrument :
MSVOA_U
ClientSampled :
TP-2A-S

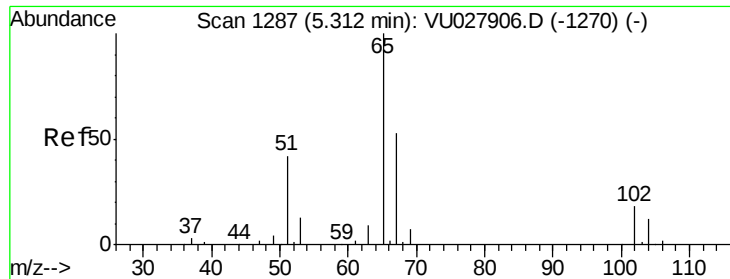
Tot Ion: 83 Resp: 2400
Ion Ratio Lower Upper
83 100
85 53.0 50.6 76.0



#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1186
Delta R.T. -0.01 min
Lab File: VU027936.D
Acq: 02 Nov 2018 19:09

Tgt Ion: 56 Resp: 4718
Ion Ratio Lower Upper
56 100
69 168.3 23.7 35.5#
84 139.5 58.2 87.4#

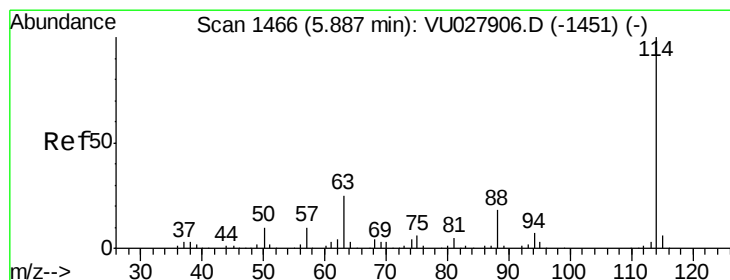
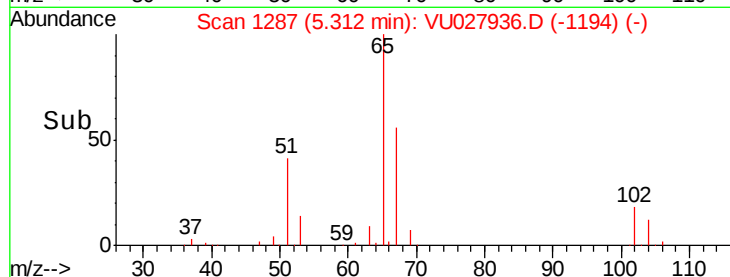
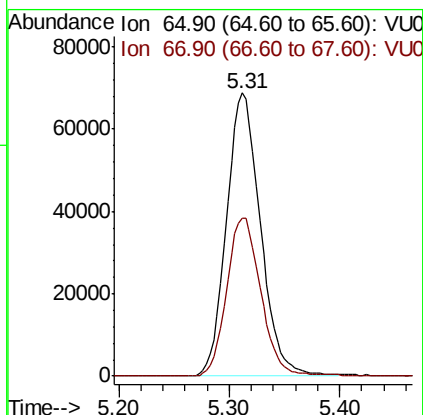
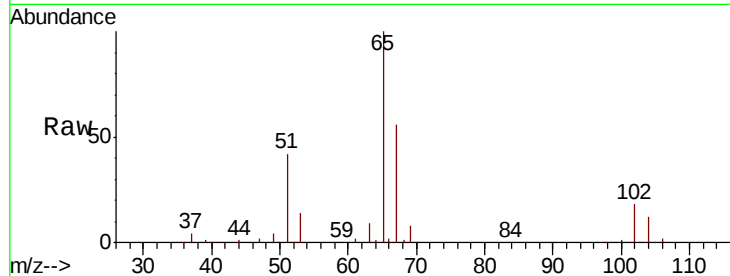




#33
 1,2-Dichloroethane-d4
 Concen: 51.870 ug/l
 RT: 5.31 min Scan# 1287
 Delta R.T. 0.00 min
 Lab File: VU027936.D
 Acq: 02 Nov 2018 19:09

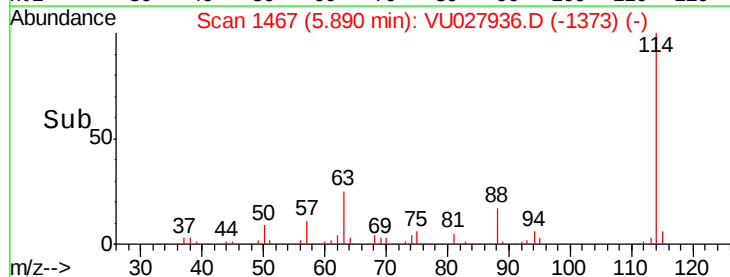
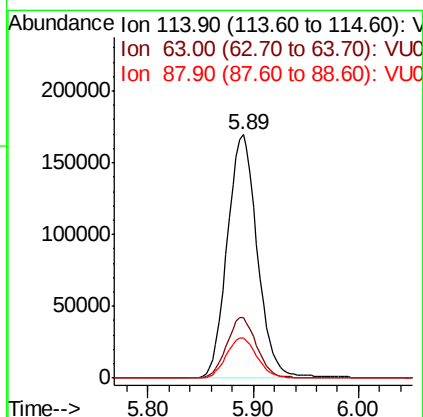
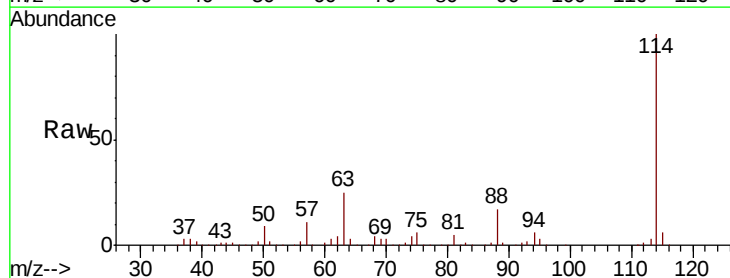
Instrument :
 MSVOA_U
 ClientSampleId :
 TP-2A-S

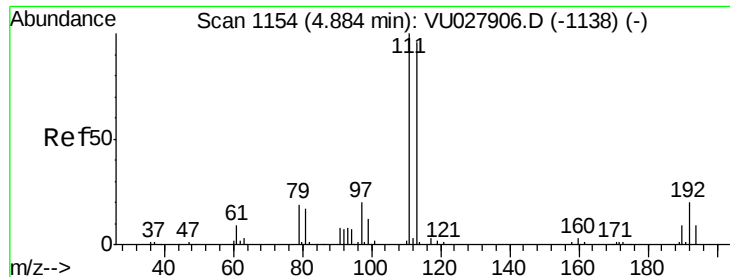
Tot Ion: 65 Resp: 146819
 Ion Ratio Lower Upper
 65 100
 67 56.3 0.0 109.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1467
 Delta R.T. 0.00 min
 Lab File: VU027936.D
 Acq: 02 Nov 2018 19:09

Tgt Ion: 114 Resp: 335778
 Ion Ratio Lower Upper
 114 100
 63 24.8 0.0 50.8
 88 16.6 0.0 35.8

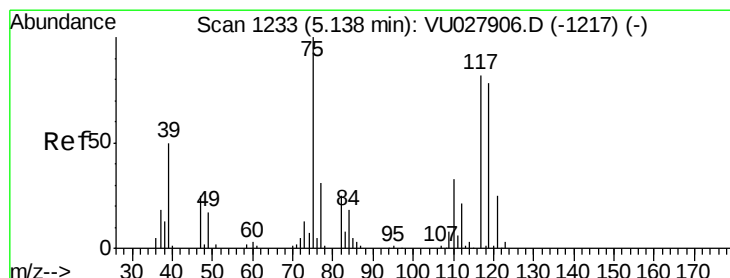
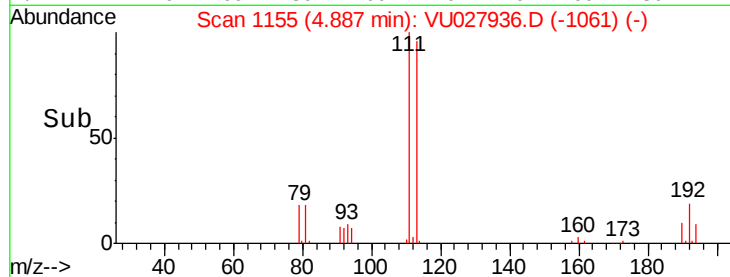
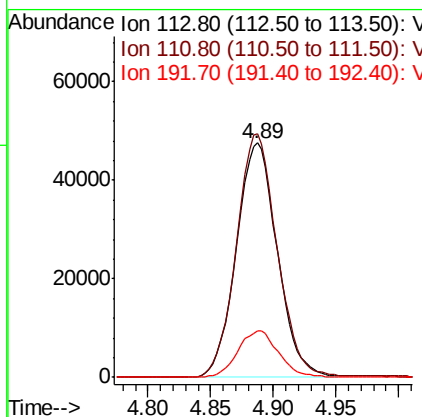
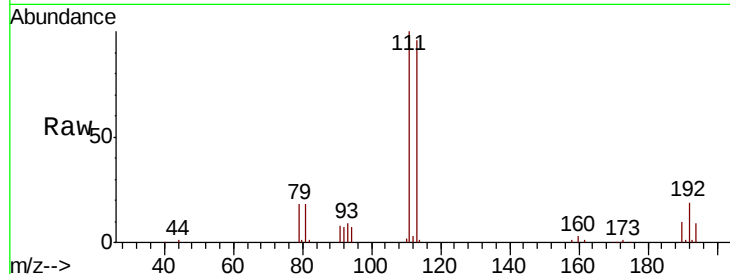




#35
 Dibromofluoromethane
 Concen: 51.130 ug/l
 RT: 4.89 min Scan# 1155
 Delta R.T. 0.00 min
 Lab File: VU027936.D
 Acq: 02 Nov 2018 19:09

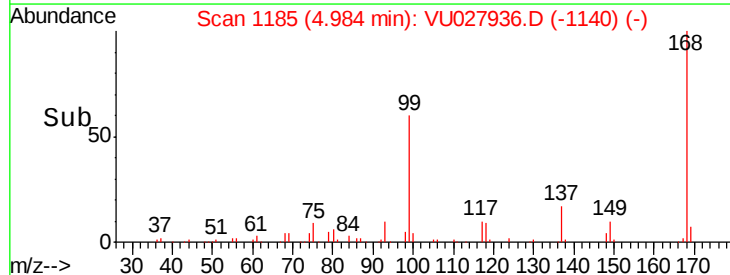
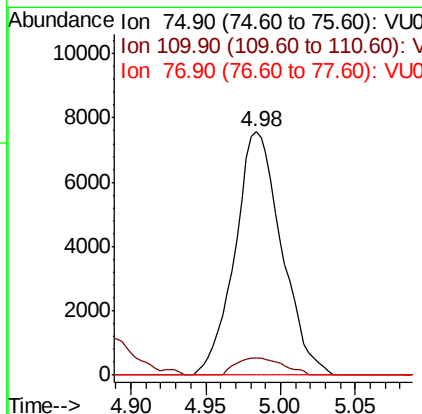
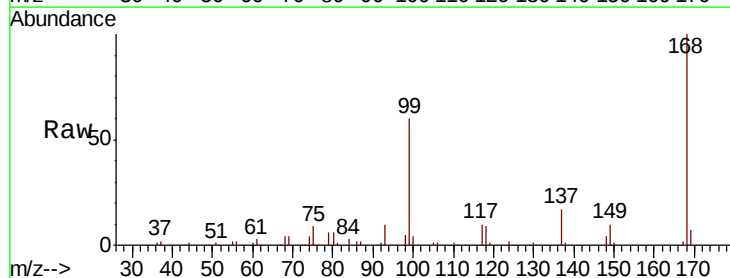
Instrument :
 MSVOA_U
 ClientSampleId :
 TP-2A-S

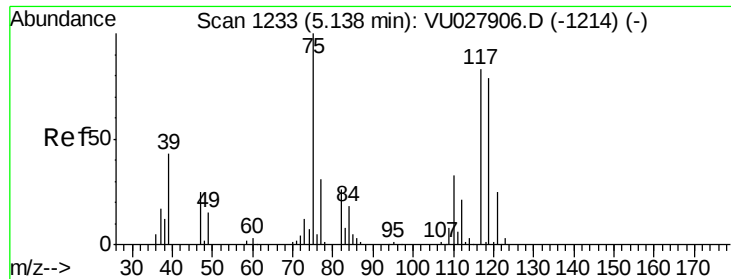
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.3	83.0	124.6
192	19.8	15.6	23.4



#36
 1,1-Dichloropropene
 Concen: 4.671 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU027936.D
 Acq: 02 Nov 2018 19:09

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.2	16.5	49.5#
77	0.0	24.9	37.3#

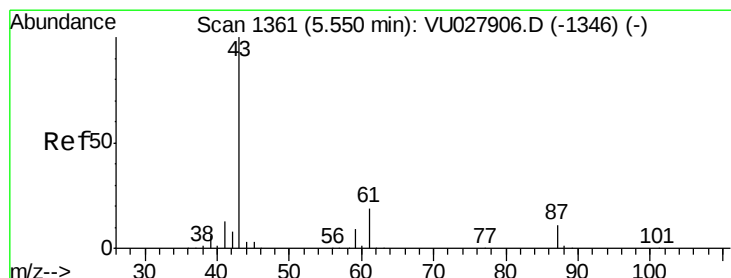
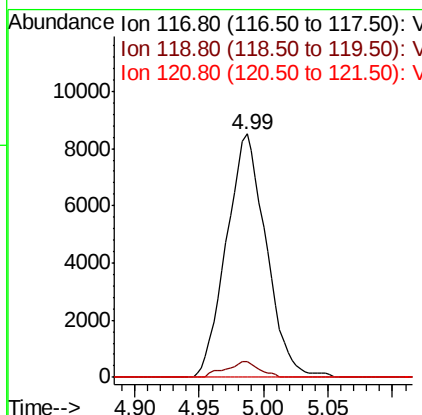
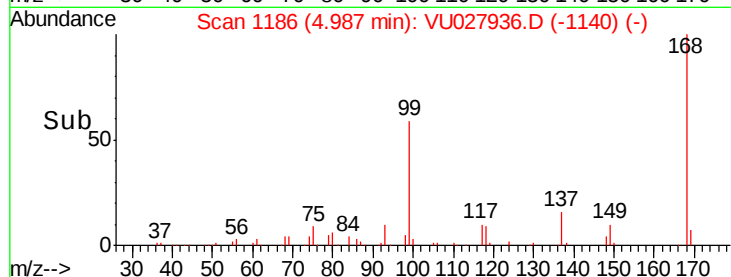
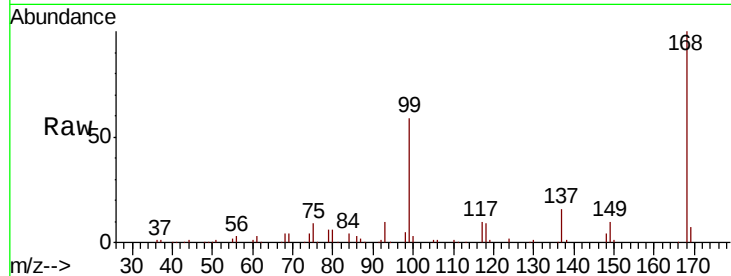




#38
 Carbon Tetrachloride
 Concen: 5.863 ug/l
 RT: 4.99 min Scan# 1186
 Delta R.T. -0.15 min
 Lab File: VU027936.D
 Acq: 02 Nov 2018 19:09

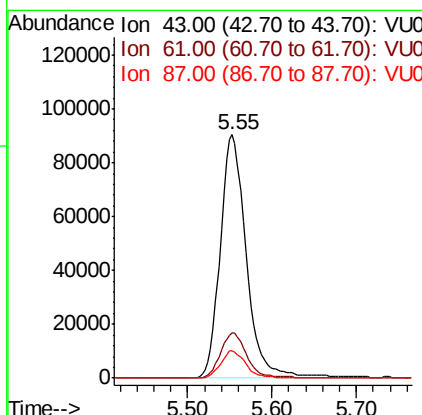
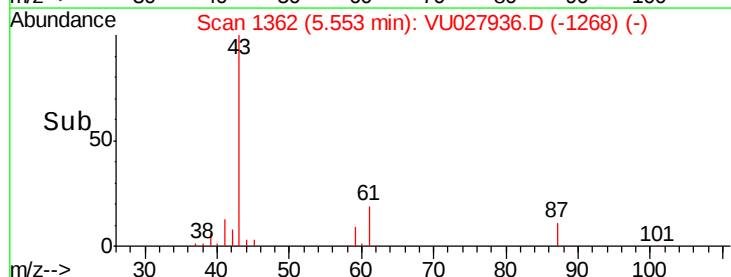
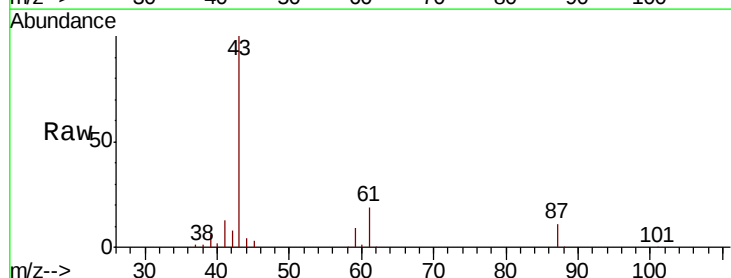
Instrument :
 MSVOA_U
 ClientSampled :
 TP-2A-S

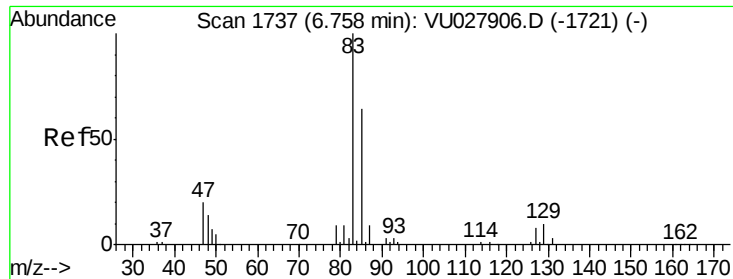
Tot Ion:117 Resp: 18271
 Ion Ratio Lower Upper
 117 100
 119 6.3 76.0 114.0#
 121 0.0 24.5 36.7#



#43
 Isopropyl Acetate
 Concen: 24.116 ug/l
 RT: 5.55 min Scan# 1362
 Delta R.T. 0.00 min
 Lab File: VU027936.D
 Acq: 02 Nov 2018 19:09

Tgt Ion: 43 Resp: 194688
 Ion Ratio Lower Upper
 43 100
 61 18.7 15.0 22.4
 87 10.6 8.6 12.8





#47

Bromodichloromethane

Concen: 0.225 ug/l

RT: 6.76 min Scan# 1739

Delta R.T. 0.01 min

Lab File: VU027936.D

Acq: 02 Nov 2018 19:09

Instrument :

MSVOA_U

ClientSampleId :

TP-2A-S

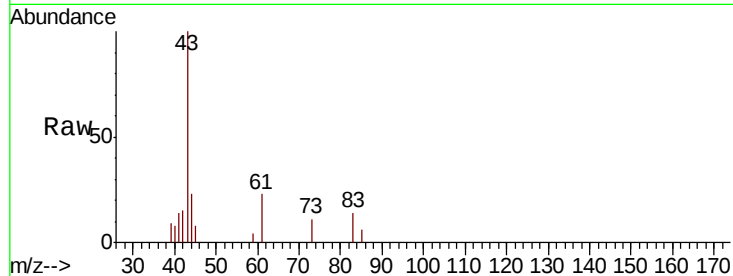
Tot Ion: 83 Resp: 773

Ion Ratio Lower Upper

83 100

85 42.1 51.0 76.6#

127 0.0 6.2 9.4#



Abundance Ion 82.90 (82.60 to 83.60): VU0

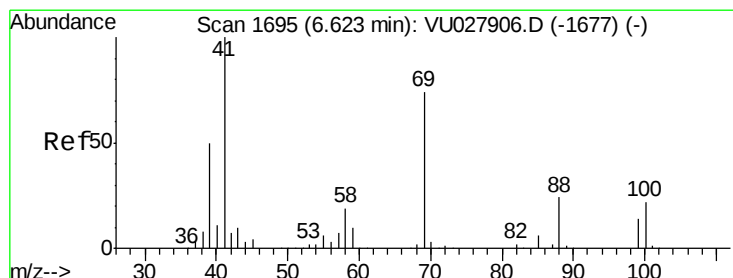
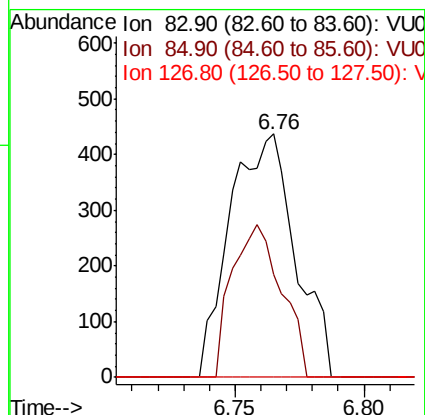
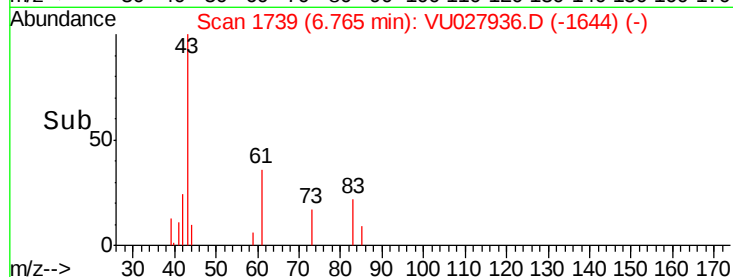
Ion 84.90 (84.60 to 85.60): VU0

Ion 126.80 (126.50 to 127.50): V

6.76

6.75

6.80



#48

Methyl methacrylate

Concen: 4.120 ug/l

RT: 6.71 min Scan# 1722

Delta R.T. 0.09 min

Lab File: VU027936.D

Acq: 02 Nov 2018 19:09

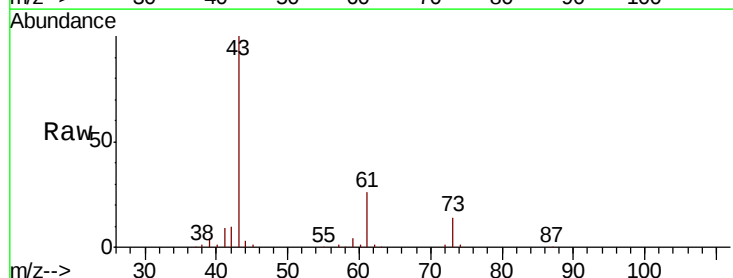
Tgt Ion: 41 Resp: 16298

Ion Ratio Lower Upper

41 100

69 0.0 59.8 89.8#

39 44.9 40.0 60.0



Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

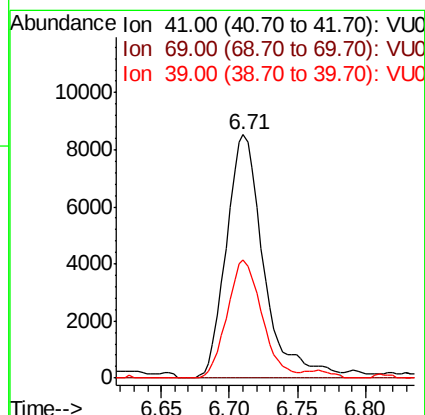
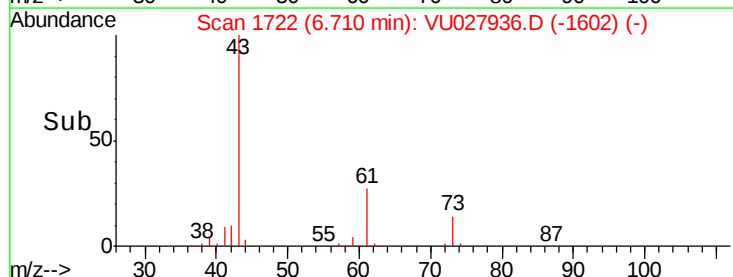
6.71

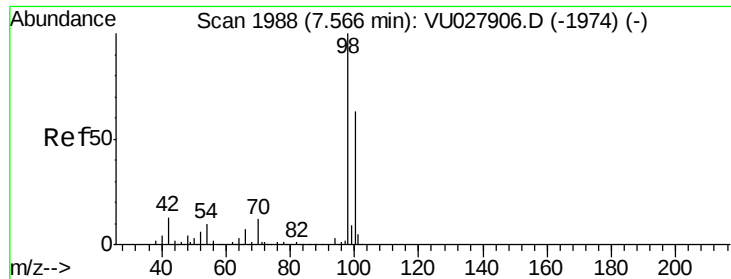
6.65

6.70

6.75

6.80





#50

Toluene-d8

Concen: 52.934 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VU027936.D

Acq: 02 Nov 2018 19:09

Instrument :

MSVOA_U

ClientSampled :

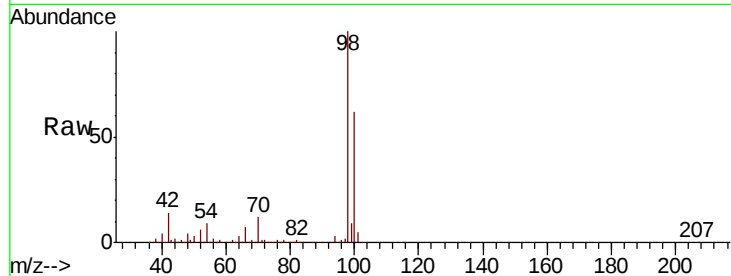
TP-2A-S

Tot Ion: 98 Resp: 432913

Ion Ratio Lower Upper

98 100

100 62.6 50.1 75.1



Abundance Ion 98.00 (97.70 to 98.70): VU027906.D (-1974) (-)

Ion 100.00 (99.70 to 100.70): VU027906.D (-1974) (-)

7.57

250000

200000

150000

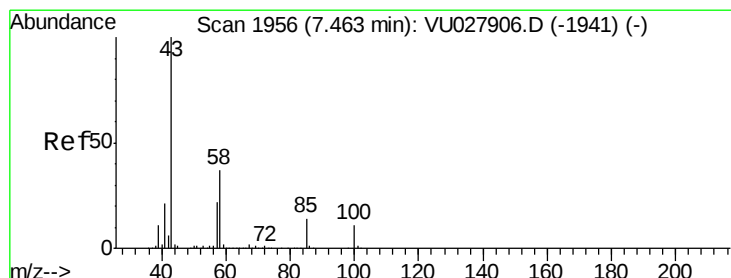
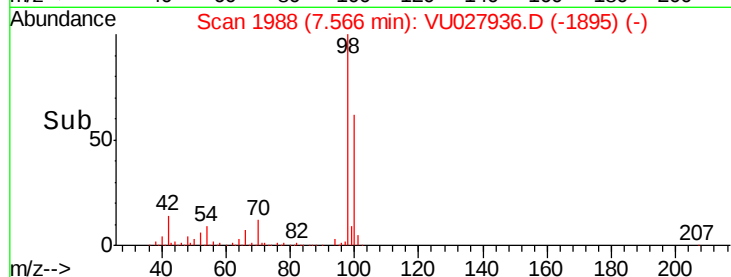
100000

50000

0

7.50 7.60 7.70

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.318 ug/l

RT: 7.47 min Scan# 1957

Delta R.T. 0.00 min

Lab File: VU027936.D

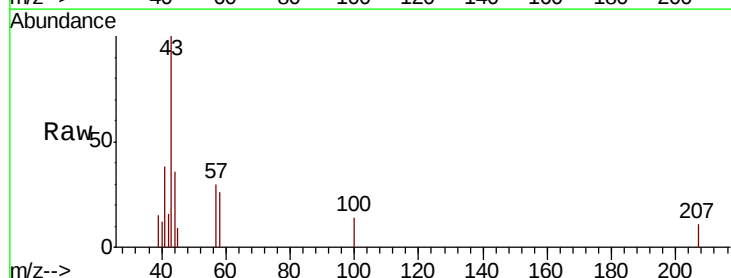
Acq: 02 Nov 2018 19:09

Tgt Ion: 43 Resp: 1716

Ion Ratio Lower Upper

43 100

58 35.7 29.5 44.3



Abundance Ion 43.00 (42.70 to 43.70): VU027906.D (-1941) (-)

Ion 58.00 (57.70 to 58.70): VU027906.D (-1941) (-)

7.47

1500

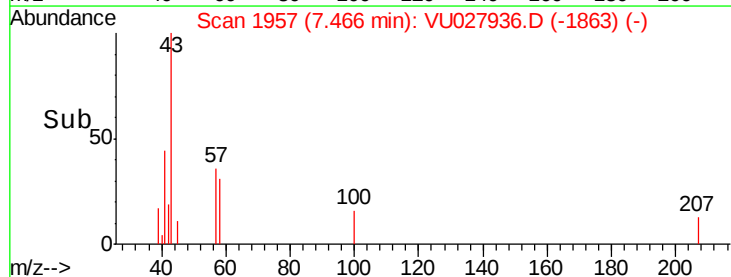
1000

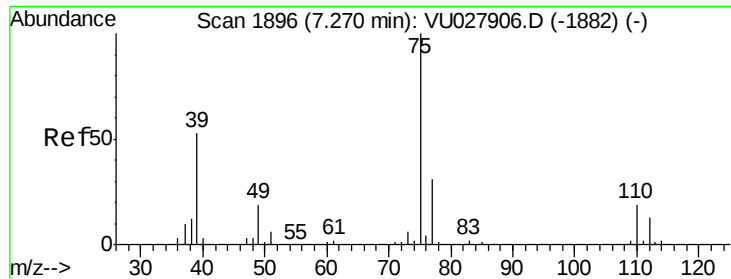
500

0

7.45 7.50

Time-->



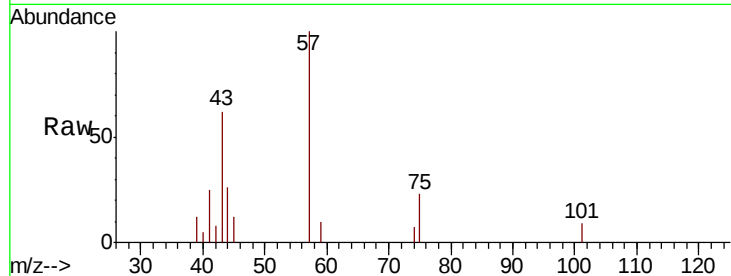


#54

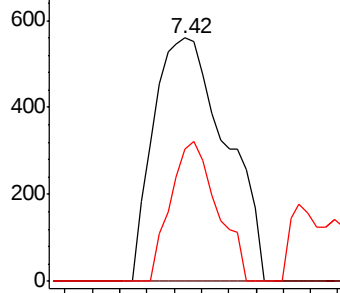
cis-1,3-Dichloropropene
 Concen: 0.244 ug/l
 RT: 7.42 min Scan# 1944
 Delta R.T. 0.15 min
 Lab File: VU027936.D
 Acq: 02 Nov 2018 19:09

Instrument :
 MSVOA_U
 ClientSampleId :
 TP-2A-S

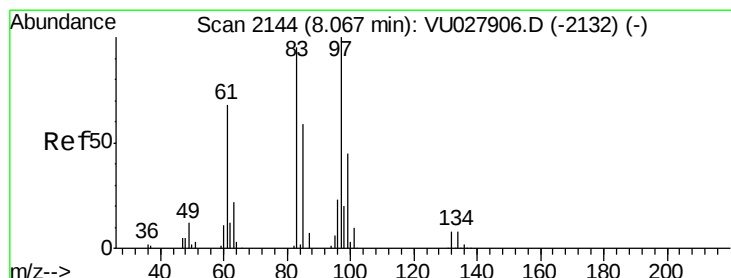
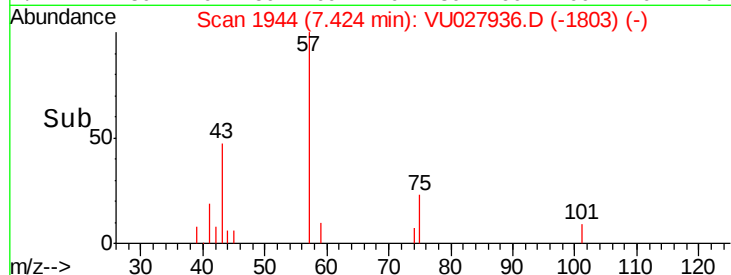
Tot Ion: 75 Resp: 1032
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.6 37.0#
 39 54.1 42.6 64.0



Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 76.90 (76.60 to 77.60): VU0
 Ion 39.00 (38.70 to 39.70): VU0



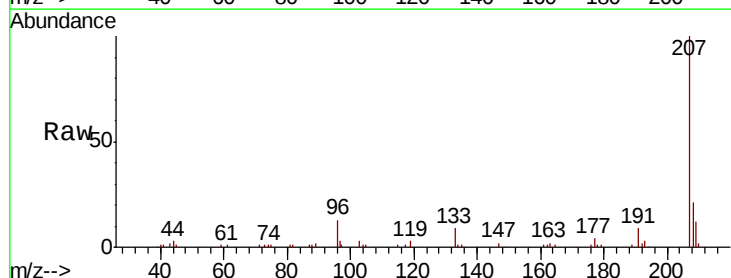
Time-->



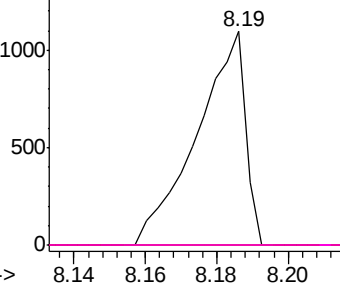
#55

1,1,2-Trichloroethane
 Concen: 0.401 ug/l
 RT: 8.19 min Scan# 2181
 Delta R.T. 0.12 min
 Lab File: VU027936.D
 Acq: 02 Nov 2018 19:09

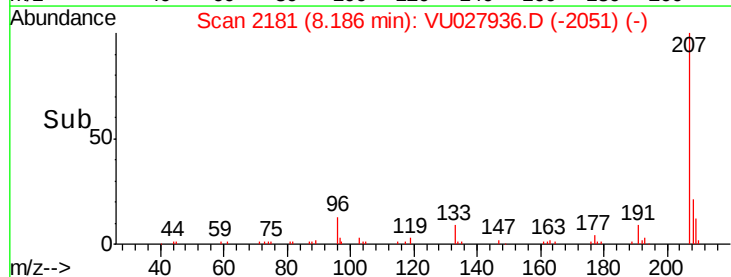
Tgt Ion: 97 Resp: 1031
 Ion Ratio Lower Upper
 97 100
 83 0.0 76.1 114.1#
 85 0.0 48.9 73.3#
 99 0.0 52.0 78.0#

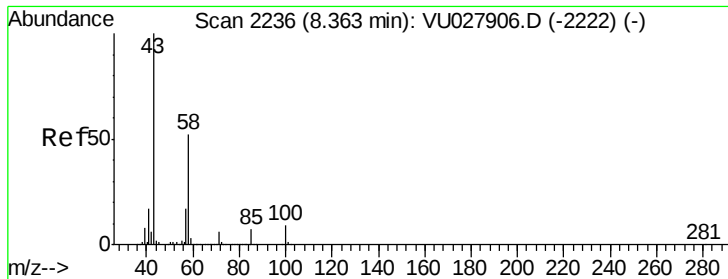


Abundance Ion 96.90 (96.60 to 97.60): VU0
 Ion 82.90 (82.60 to 83.60): VU0
 Ion 84.90 (84.60 to 85.60): VU0
 Ion 98.90 (98.60 to 99.60): VU0



Time-->





#59

2-Hexanone

Concen: 2.938 ug/l

RT: 8.42 min Scan# 2253

Delta R.T. 0.05 min

Lab File: VU027936.D

Acq: 02 Nov 2018 19:09

Instrument :

MSVOA_U

ClientSampleId :

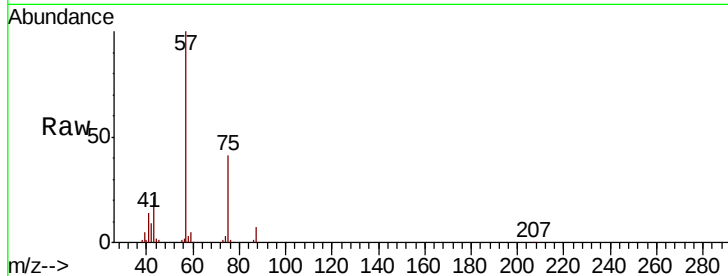
TP-2A-S

Tot Ion: 43 Resp: 12251

Ion Ratio Lower Upper

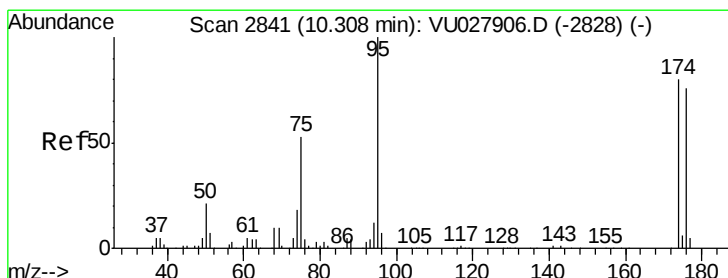
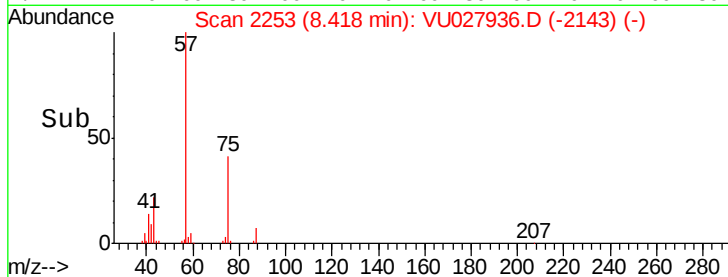
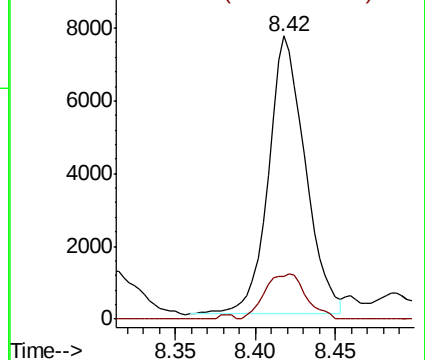
43 100

58 18.1 25.8 77.3#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#62

4-Bromofluorobenzene

Concen: 47.241 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. 0.00 min

Lab File: VU027936.D

Acq: 02 Nov 2018 19:09

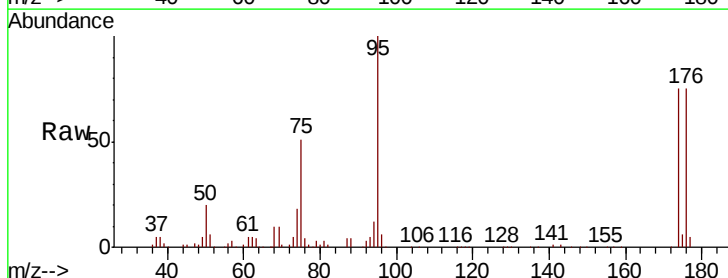
Tgt Ion: 95 Resp: 142502

Ion Ratio Lower Upper

95 100

174 75.7 0.0 156.4

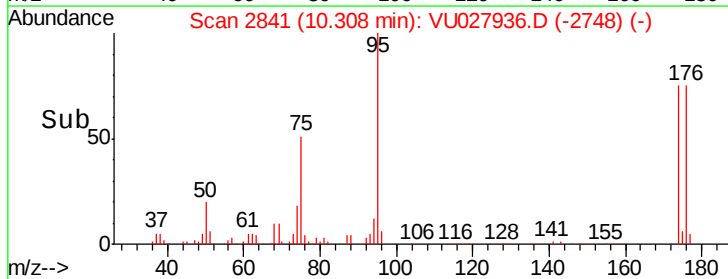
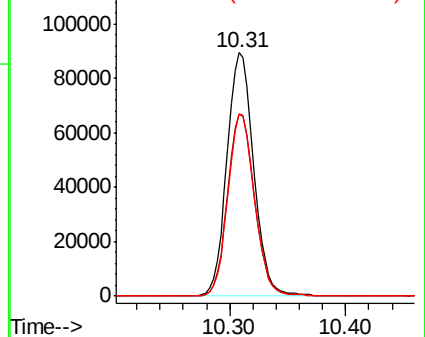
176 74.1 0.0 150.8

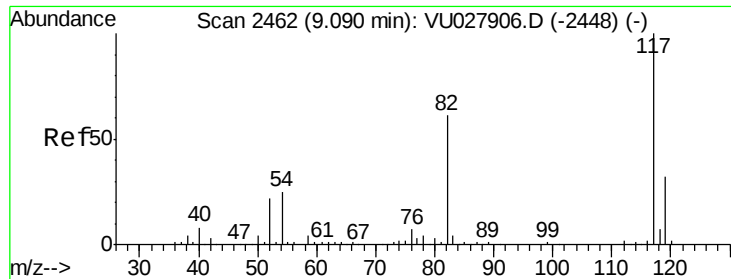


Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

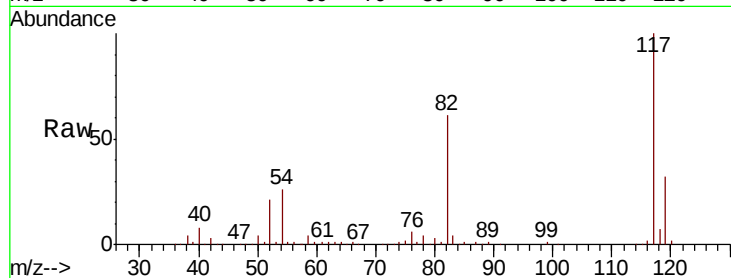




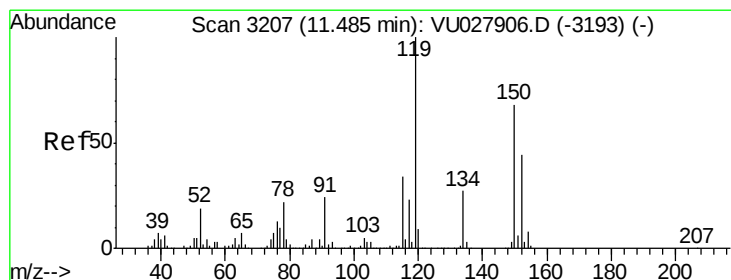
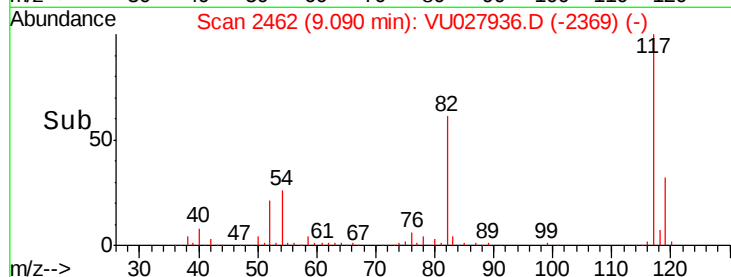
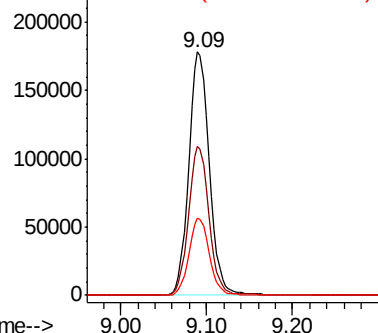
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. 0.00 min
Lab File: VU027936.D
Acq: 02 Nov 2018 19:09

Instrument :
MSVOA_U
ClientSampleId :
TP-2A-S

Tot Ion:117 Resp: 297541
Ion Ratio Lower Upper
117 100
82 61.1 48.6 73.0
119 31.6 25.8 38.8

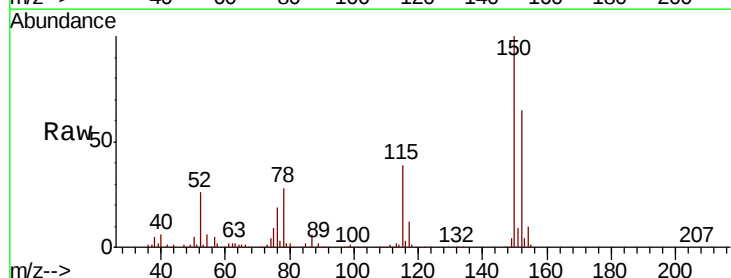


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU027906.D (-2448) (-)
Ion 118.90 (118.60 to 119.60): V

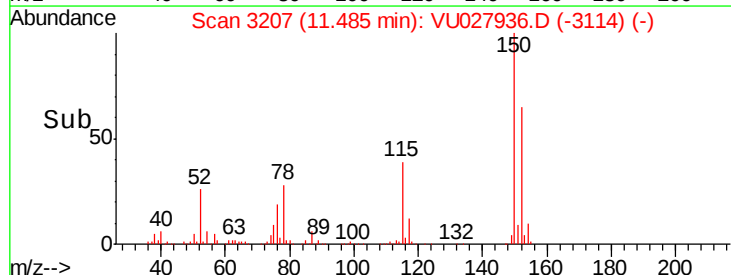
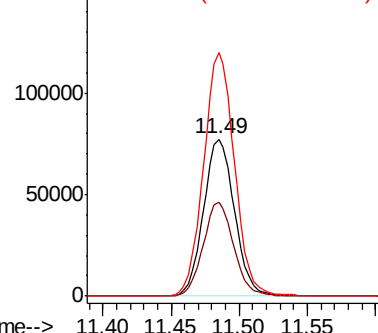


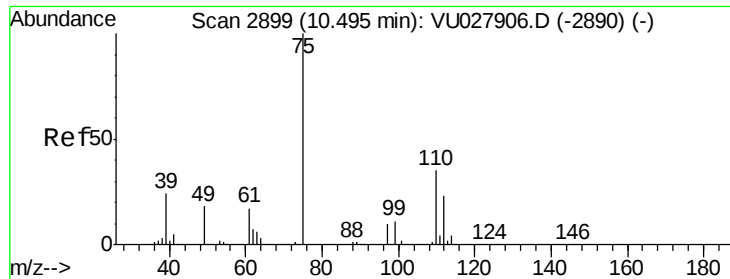
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.49 min Scan# 3207
Delta R.T. 0.00 min
Lab File: VU027936.D
Acq: 02 Nov 2018 19:09

Tgt Ion:152 Resp: 122015
Ion Ratio Lower Upper
152 100
115 58.9 43.0 129.0
150 154.5 0.0 349.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): VU027906.D (-3193) (-)
Ion 149.90 (149.60 to 150.60): V

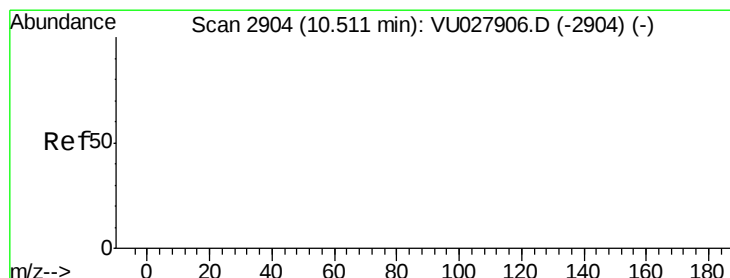
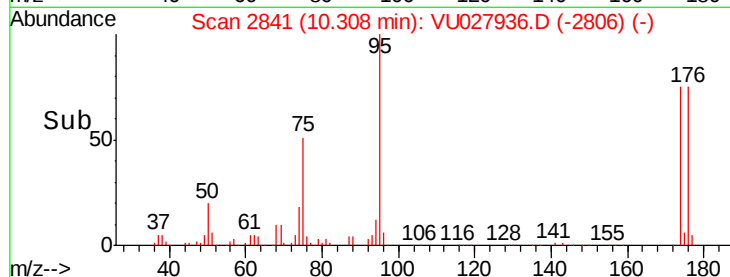
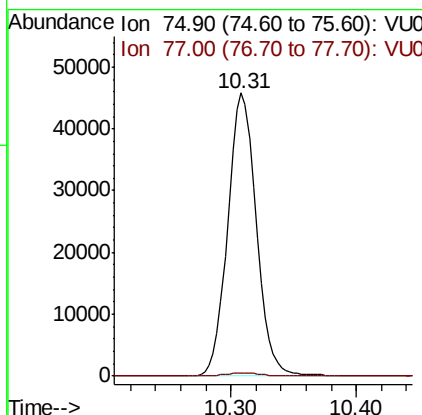
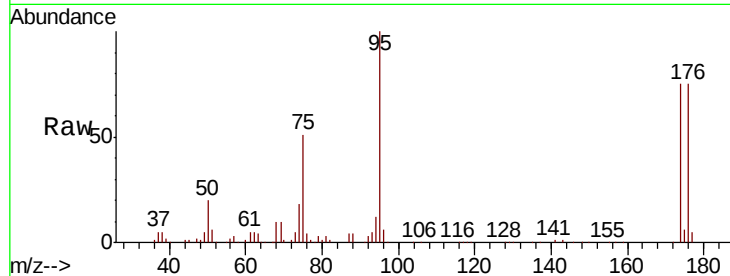




#76
 1,2,3-Trichloropropane
 Concen: 21.726 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. -0.19 min
 Lab File: VU027936.D
 Acq: 02 Nov 2018 19:09

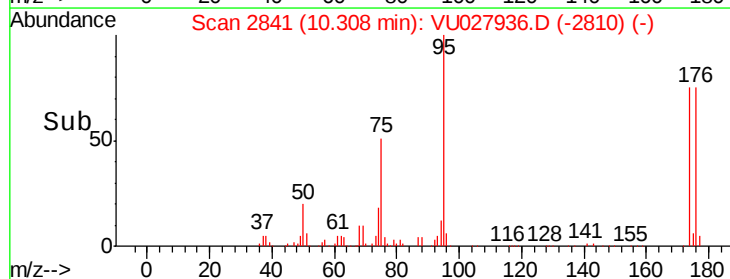
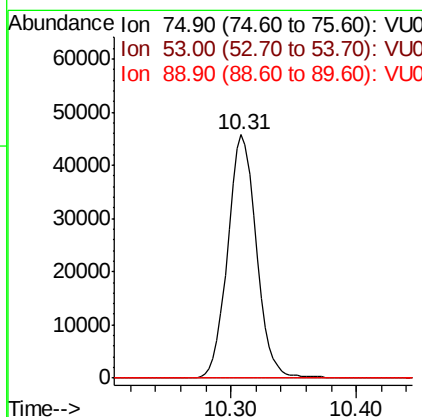
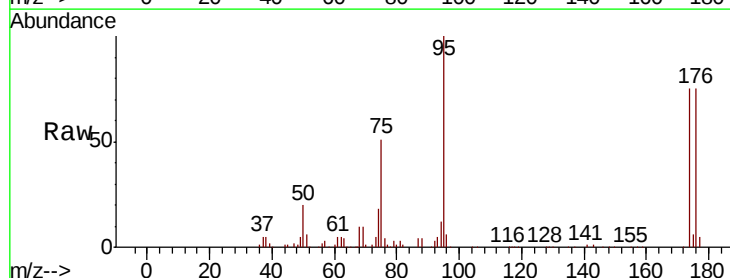
Instrument :
 MSVOA_U
 ClientSampled :
 TP-2A-S

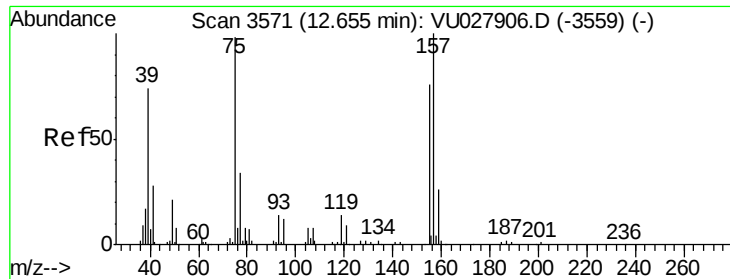
Tot Ion: 75 Resp: 72510
 Ion Ratio Lower Upper
 75 100
 77 1.3 21.6 64.6#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 54.223 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. -0.20 min
 Lab File: VU027936.D
 Acq: 02 Nov 2018 19:09

Tgt Ion: 75 Resp: 72510
 Ion Ratio Lower Upper
 75 100
 53 0.0 0.0 0.0
 89 0.0 0.0 0.0





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.363 ug/l

RT: 12.48 min Scan# 3515

Delta R.T. -0.18 min

Lab File: VU027936.D

Acq: 02 Nov 2018 19:09

Instrument :

MSVOA_U

ClientSampleId :

TP-2A-S

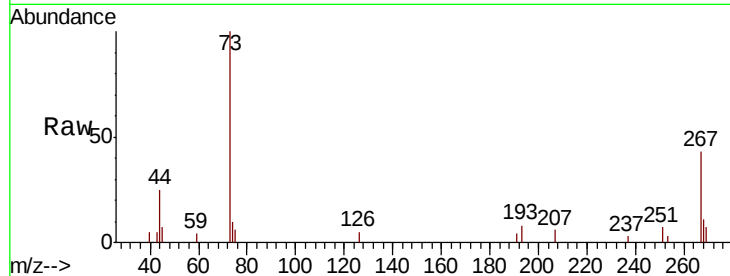
Tot Ion: 75 Resp: 292

Ion Ratio Lower Upper

75 100

155 0.0 39.8 119.3#

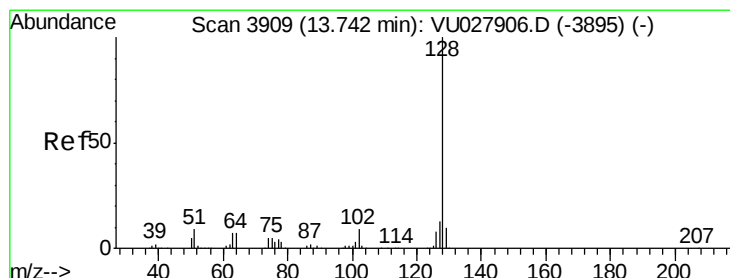
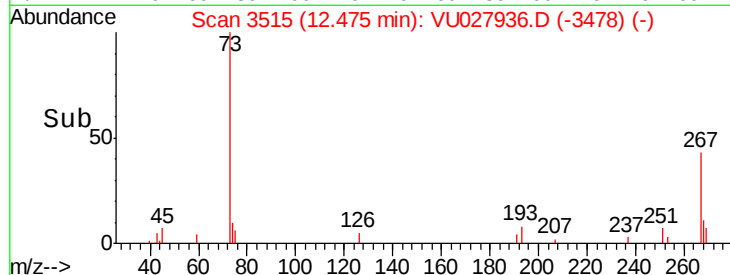
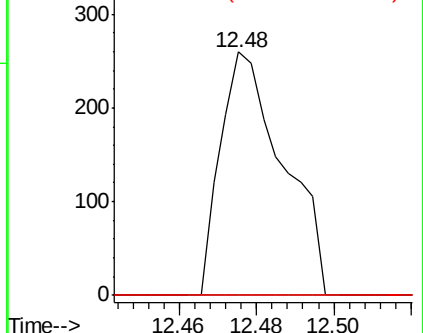
157 0.0 50.6 151.9#



Abundance Ion 74.90 (74.60 to 75.60): VU027906.D (-3559) (-)

Ion 154.80 (154.50 to 155.50): VU027906.D (-3559) (-)

Ion 156.80 (156.50 to 157.50): VU027906.D (-3559) (-)



#95

Naphthalene

Concen: 1.633 ug/l

RT: 13.75 min Scan# 3911

Delta R.T. 0.01 min

Lab File: VU027936.D

Acq: 02 Nov 2018 19:09

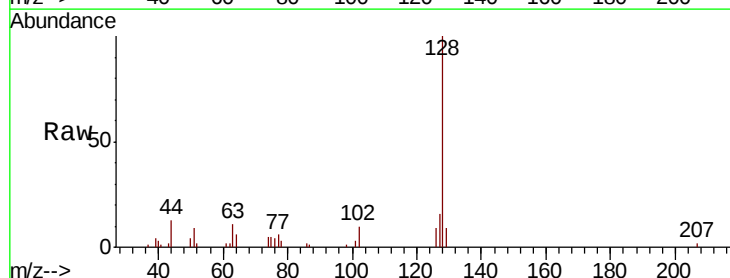
Tgt Ion: 128 Resp: 18097

Ion Ratio Lower Upper

128 100

127 12.4 10.4 15.6

129 9.5 8.3 12.5



Abundance Ion 128.00 (127.70 to 128.70): VU027906.D (-3895) (-)

Ion 127.00 (126.70 to 127.70): VU027906.D (-3895) (-)

Ion 129.00 (128.70 to 129.70): VU027906.D (-3895) (-)

