

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU110218\
 Data File : VU027926.D
 Acq On : 02 Nov 2018 15:14
 Operator : MD/SY
 Sample : J5741-10
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 TP-2

Quant Time: Nov 03 04:23:03 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	187584	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	330858	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	295490	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	121838	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.31	65	145321	52.11	ug/l	0.00
Spiked Amount			Recovery	=	104.22%	
35) Dibromofluoromethane	4.89	113	107734	51.64	ug/l	0.00
Spiked Amount			Recovery	=	103.28%	
50) Toluene-d8	7.57	98	423116	52.51	ug/l	0.00
Spiked Amount			Recovery	=	105.02%	
62) 4-Bromofluorobenzene	10.31	95	138146	46.48	ug/l	0.00
Spiked Amount			Recovery	=	92.96%	

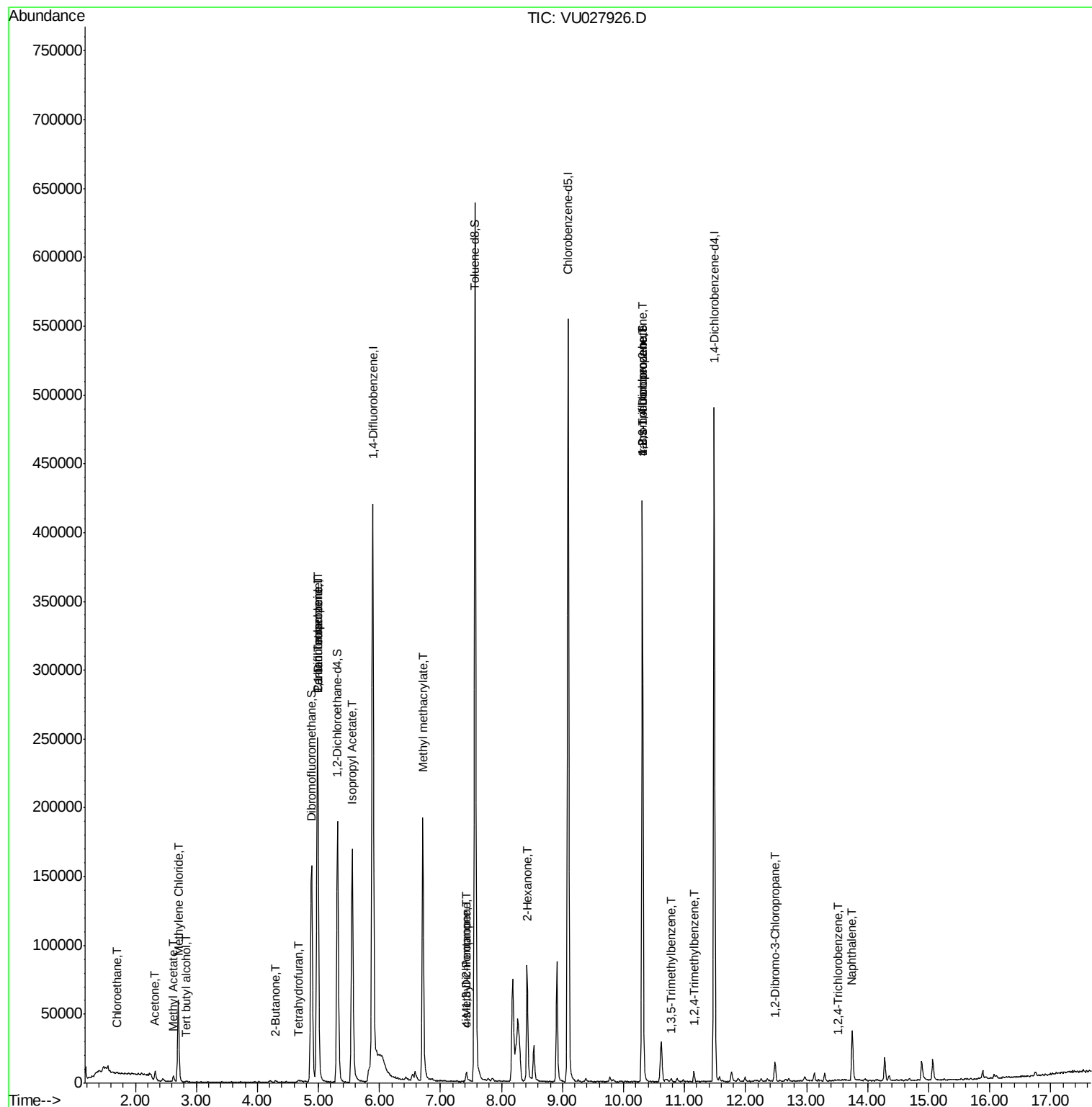
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.69	64	330	0.200	ug/l #	42
11) Tert butyl alcohol	2.83	59	207	0.280	ug/l #	73
13) Acrolein	2.20	56	107	Below Cal	#	15
16) Acetone	2.32	43	6660	3.849	ug/l	96
18) Methyl Acetate	2.62	43	5699	1.197	ug/l	92
20) Methylene Chloride	2.70	84	24985	9.890	ug/l	99
25) 2-Butanone	4.29	43	1842	0.669	ug/l #	90
29) Tetrahydrofuran	4.66	42	855	0.465	ug/l #	50
31) Cyclohexane	4.98	56	4170	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	15908	4.591	ug/l #	49
38) Carbon Tetrachloride	4.99	117	18493	6.022	ug/l #	16
43) Isopropyl Acetate	5.55	43	208846	26.255	ug/l	100
48) Methyl methacrylate	6.71	41	17926	4.599	ug/l #	47
51) 4-Methyl-2-Pentanone	7.42	43	2535	0.477	ug/l #	38
54) cis-1,3-Dichloropropene	7.43	75	875	0.210	ug/l #	70
59) 2-Hexanone	8.42	43	13325	3.243	ug/l #	54
76) 1,2,3-Trichloropropane	10.31	75	72920	21.881	ug/l #	35
80) 1,3,5-Trimethylbenzene	10.78	105	1677	0.214	ug/l	98
81) trans-1,4-Dichloro-2-buten	10.31	75	72920	54.607	ug/l #	100
84) 1,2,4-Trimethylbenzene	11.15	105	3971	0.504	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	12.47	75	332	0.414	ug/l #	4
93) 1,2,4-Trichlorobenzene	13.51	180	51	0.702	ug/l #	82
95) Naphthalene	13.75	128	31618	2.993	ug/l	99

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

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Quant Title : SW846 8260
QLast Update : Fri Nov 02 02:28:20 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU027926.D

Acq: 02 Nov 2018 15:14

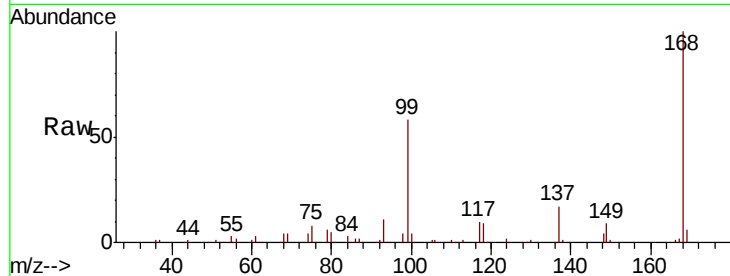
Instrument :
MSVOA_U
ClientSampleId :
TP-2

Tot Ion:168 Resp: 187584

Ion Ratio Lower Upper

168 100

99 58.2 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

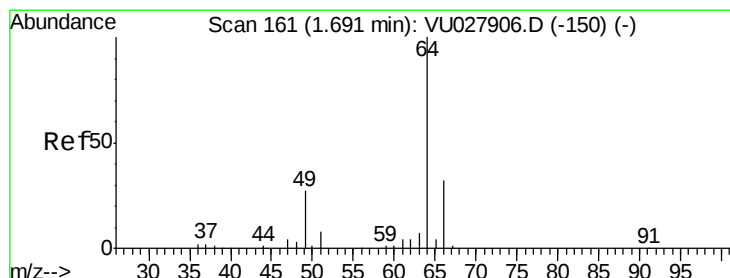
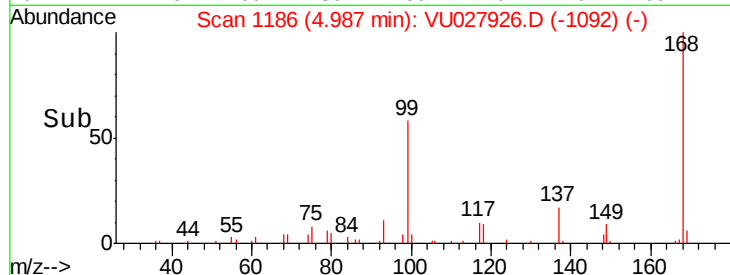
40000

20000

0

Time-->

4.90 5.00 5.10



#6

Chloroethane

Concen: 0.200 ug/l

RT: 1.69 min Scan# 162

Delta R.T. 0.00 min

Lab File: VU027926.D

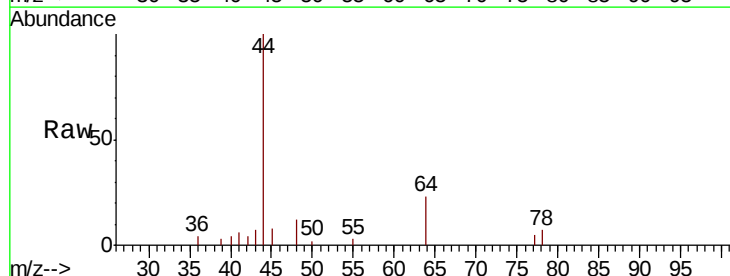
Acq: 02 Nov 2018 15:14

Tgt Ion: 64 Resp: 330

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) (-)

1.69

1000

800

600

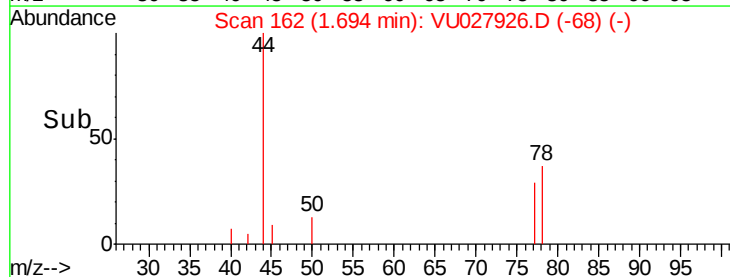
400

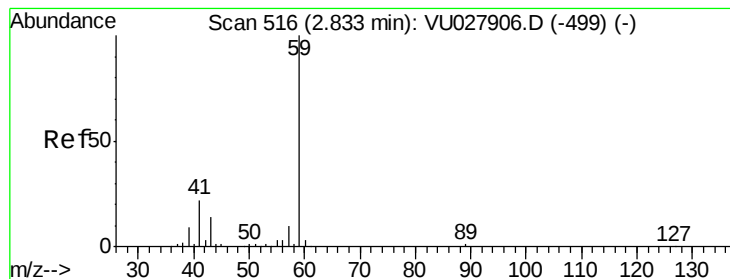
200

0

Time-->

1.68 1.70



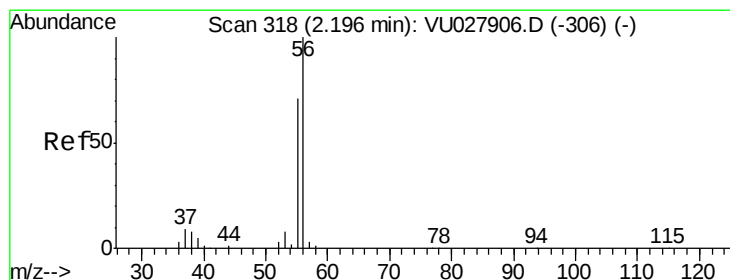
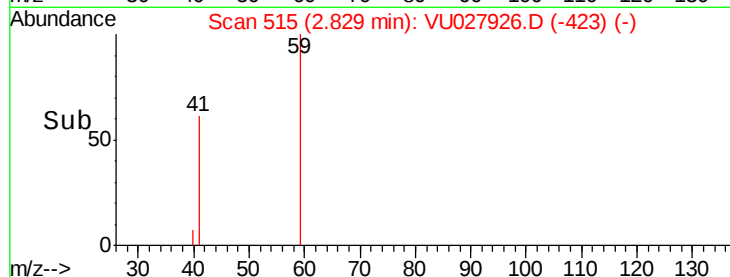
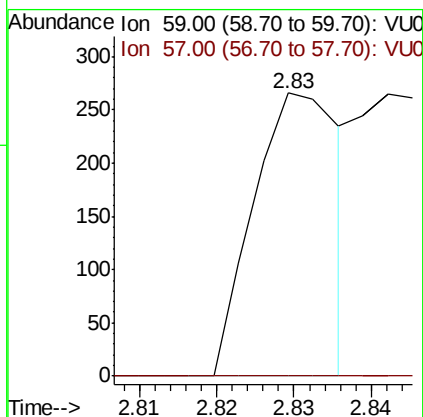
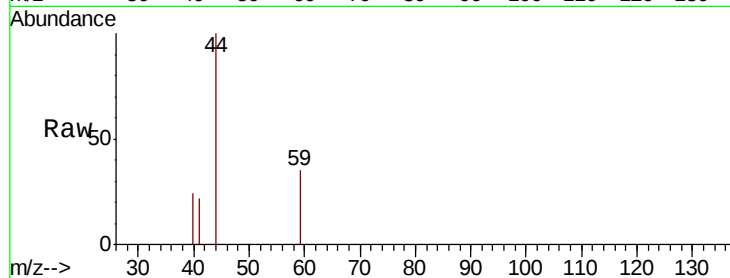


#11

Tert butyl alcohol
Concen: 0.280 ug/l
RT: 2.83 min Scan# 515
Delta R.T. -0.00 min
Lab File: VU027926.D
Acq: 02 Nov 2018 15:14

Instrument :
MSVOA_U
ClientSampled :
TP-2

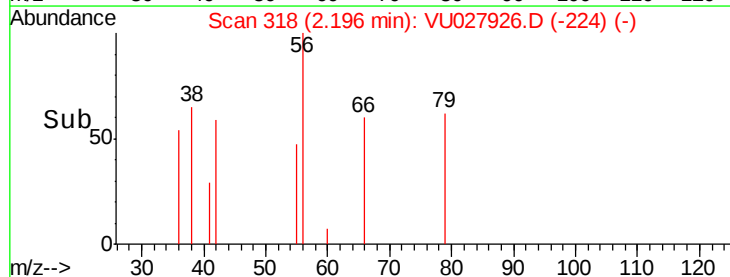
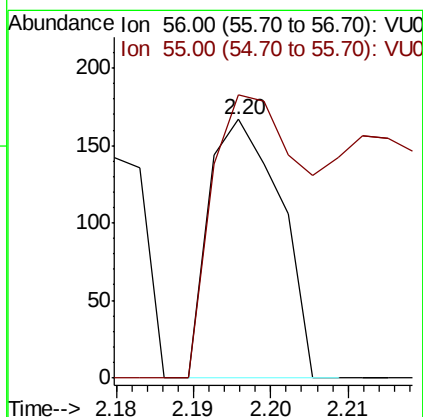
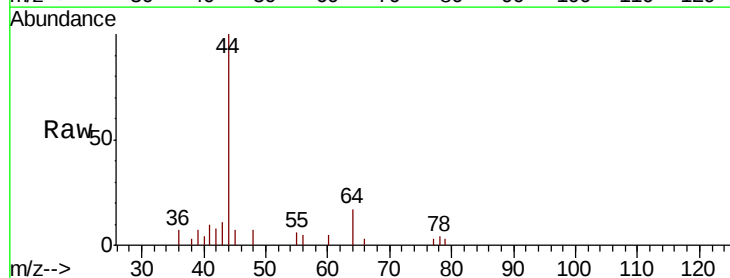
Tot Ion: 59 Resp: 207
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#

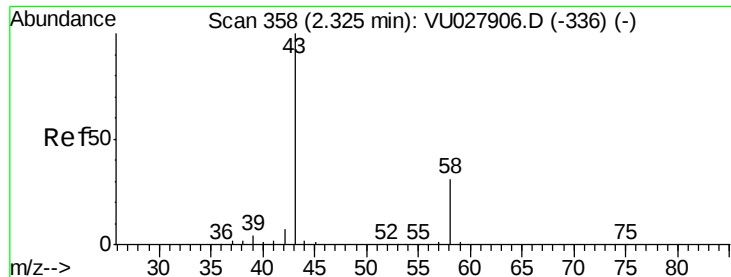


#13

Acrolein
Concen: Below Cal
RT: 2.20 min Scan# 318
Delta R.T. 0.00 min
Lab File: VU027926.D
Acq: 02 Nov 2018 15:14

Tgt Ion: 56 Resp: 107
Ion Ratio Lower Upper
56 100
55 140.2 56.2 84.4#





#16

Acetone

Concen: 3.849 ug/l

RT: 2.32 min Scan# 358

Delta R.T. -0.00 min

Lab File: VU027926.D

Acq: 02 Nov 2018 15:14

Instrument :

MSVOA_U

ClientSampleId :

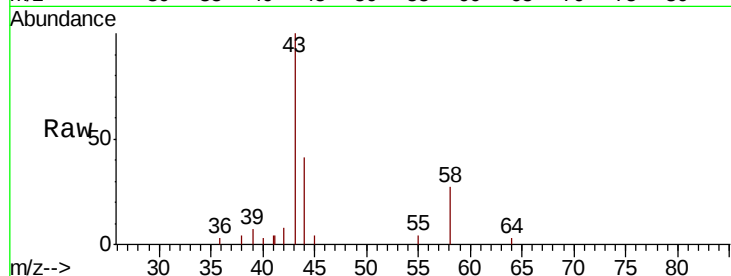
TP-2

Tot Ion: 43 Resp: 6660

Ion Ratio Lower Upper

43 100

58 28.5 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VU027906.D (-336) (-)

Ion 58.00 (57.70 to 58.70): VU027906.D (-336) (-)

2.32

4000

3000

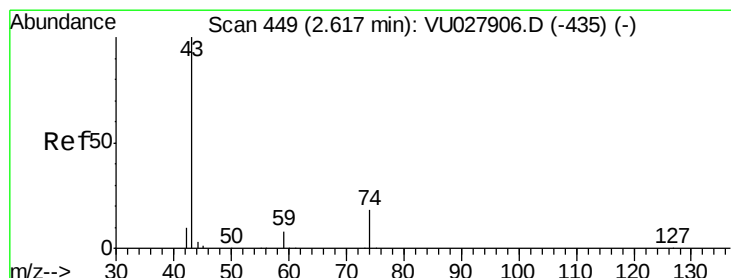
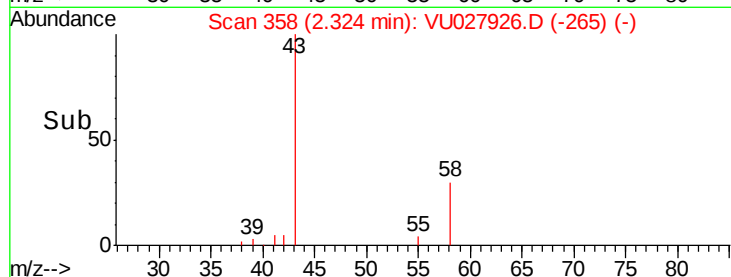
2000

1000

0

2.30 2.35 2.40

Time-->



#18

Methyl Acetate

Concen: 1.197 ug/l

RT: 2.62 min Scan# 451

Delta R.T. 0.01 min

Lab File: VU027926.D

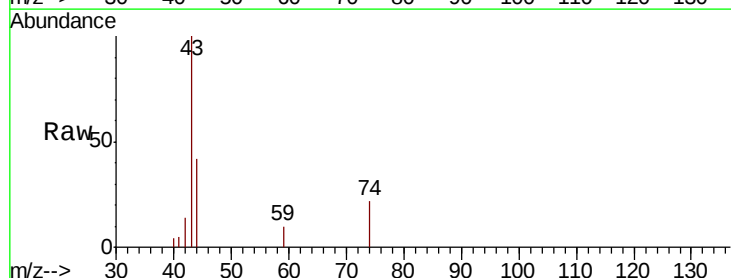
Acq: 02 Nov 2018 15:14

Tgt Ion: 43 Resp: 5699

Ion Ratio Lower Upper

43 100

74 15.1 14.9 22.3



Abundance Ion 43.00 (42.70 to 43.70): VU027906.D (-435) (-)

Ion 74.00 (73.70 to 74.70): VU027906.D (-435) (-)

2.62

3000

2500

2000

1500

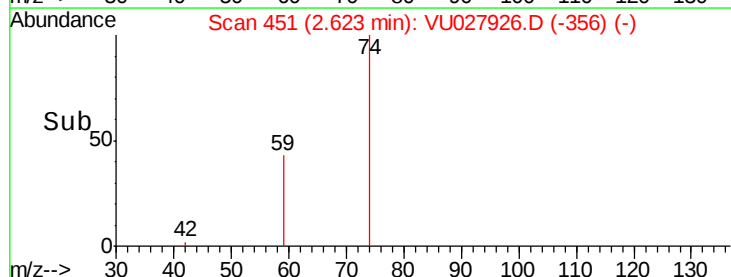
1000

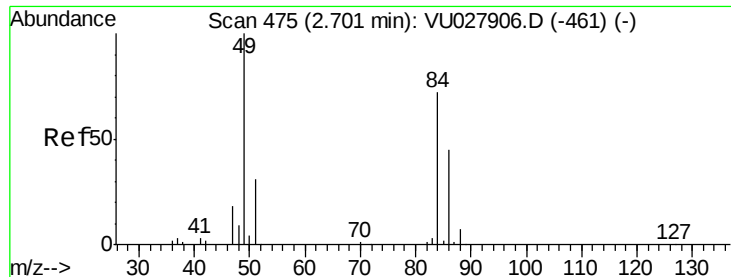
500

0

2.55 2.60 2.65 2.70

Time-->

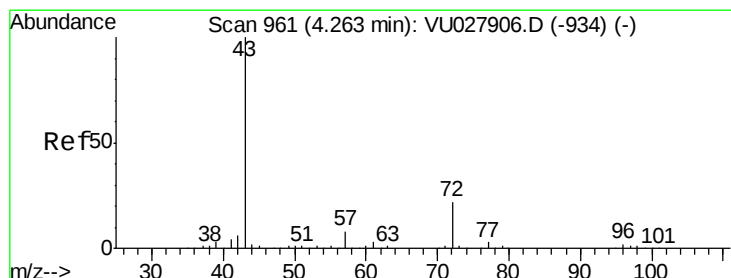
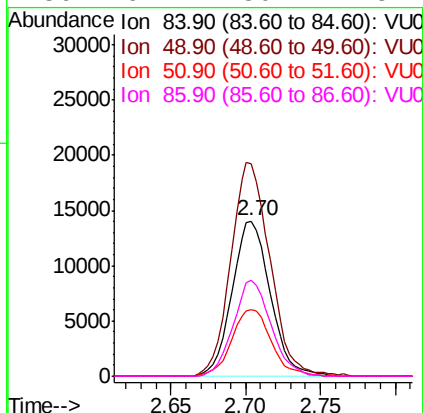
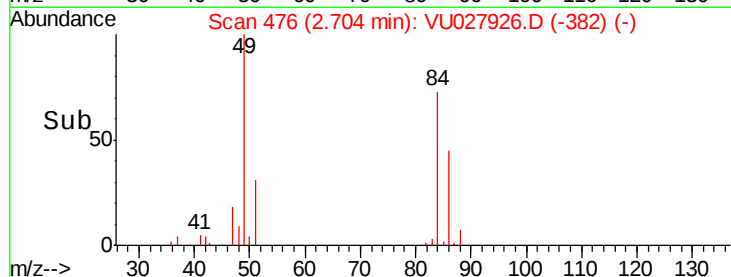
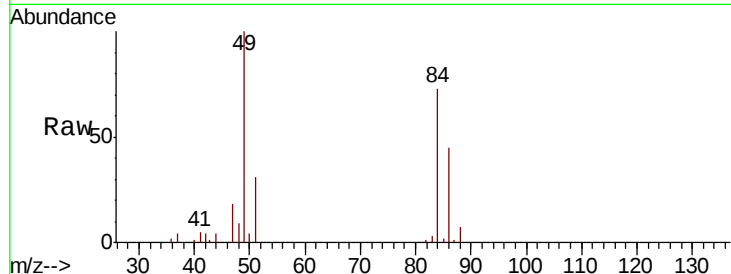




#20
Methvlene Chloride
Concen: 9.890 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU027926.D
Acq: 02 Nov 2018 15:14

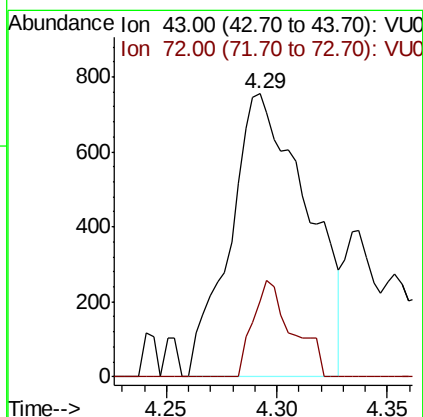
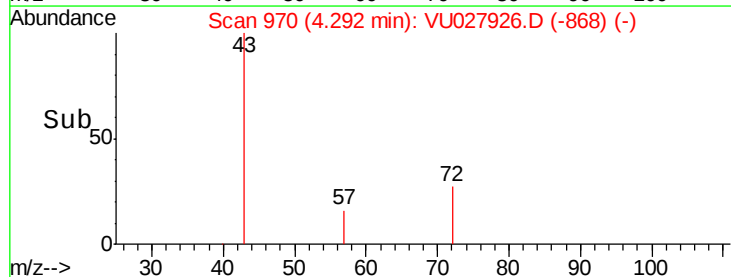
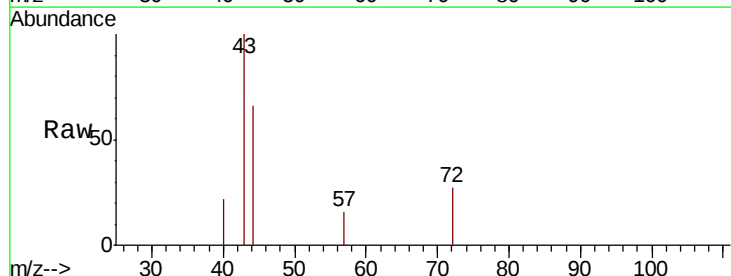
Instrument :
MSVOA_U
ClientSampleId :
TP-2

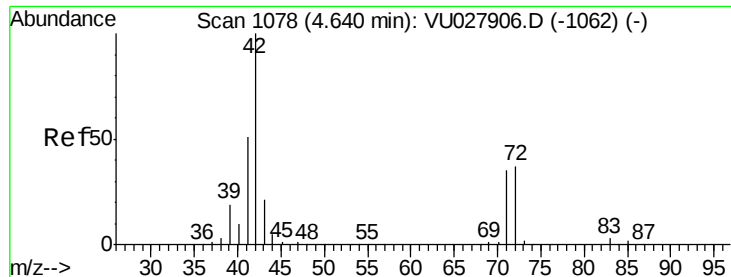
Tot Ion: 84 Resp: 24985
Ion Ratio Lower Upper
84 100
49 137.1 111.6 167.4
51 42.9 34.8 52.2
86 62.2 50.1 75.1



#25
2-Butanone
Concen: 0.669 ug/l
RT: 4.29 min Scan# 970
Delta R.T. 0.03 min
Lab File: VU027926.D
Acq: 02 Nov 2018 15:14

Tgt Ion: 43 Resp: 1842
Ion Ratio Lower Upper
43 100
72 26.8 17.7 26.5#





#29

Tetrahydrofuran

Concen: 0.465 ug/l

RT: 4.66 min Scan# 1085

Delta R.T. 0.02 min

Lab File: VU027926.D

Acq: 02 Nov 2018 15:14

Instrument :

MSVOA_U

ClientSampled :

TP-2

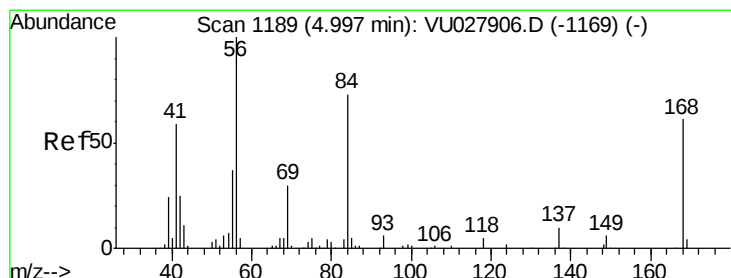
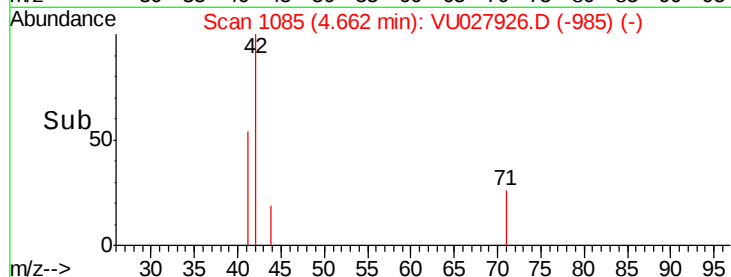
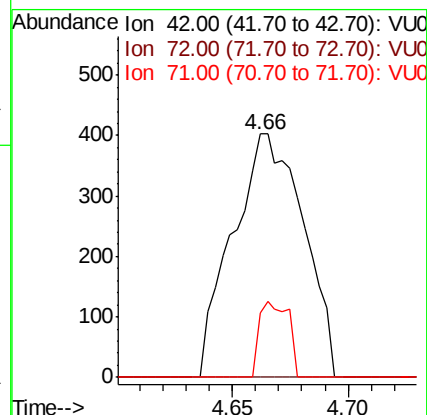
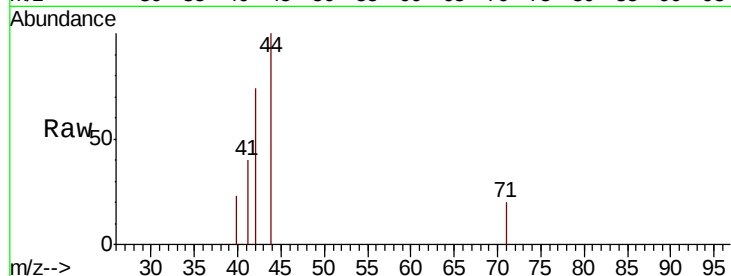
Tot Ion: 42 Resp: 855

Ion Ratio Lower Upper

42 100

72 0.0 29.4 44.0#

71 12.7 27.9 41.9#



#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1185

Delta R.T. -0.01 min

Lab File: VU027926.D

Acq: 02 Nov 2018 15:14

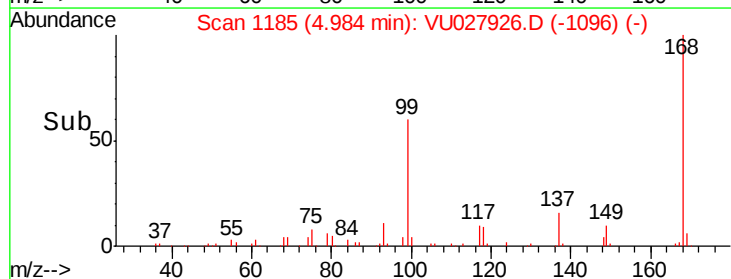
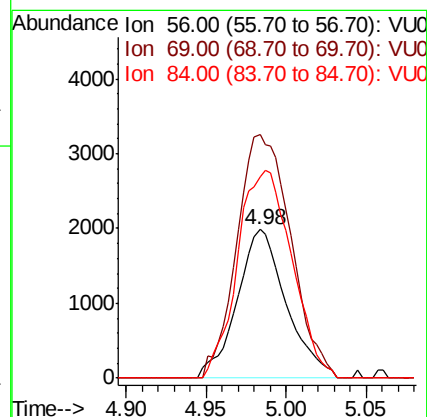
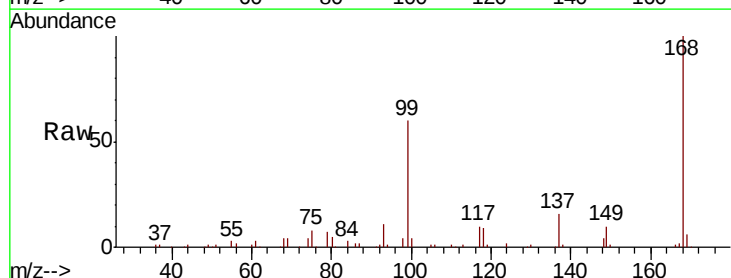
Tgt Ion: 56 Resp: 4170

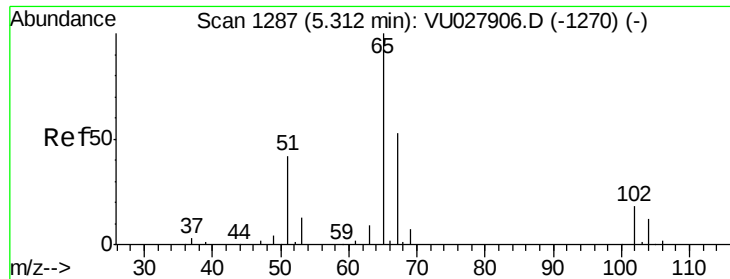
Ion Ratio Lower Upper

56 100

69 164.0 23.7 35.5#

84 135.5 58.2 87.4#

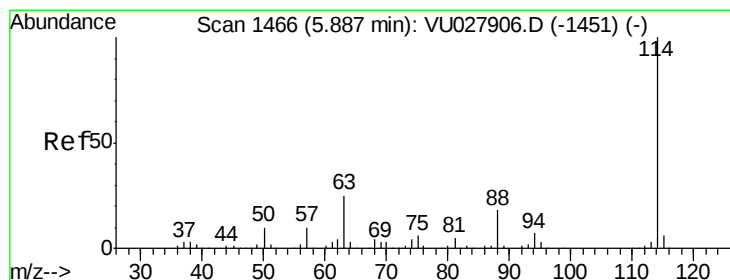
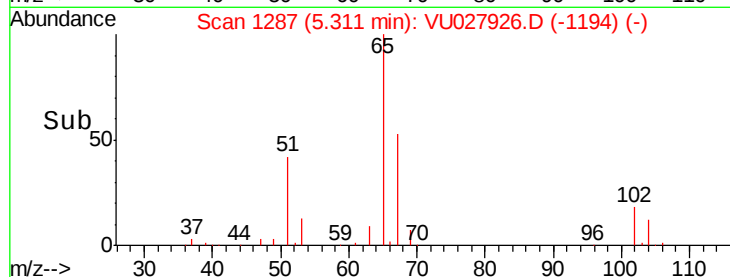
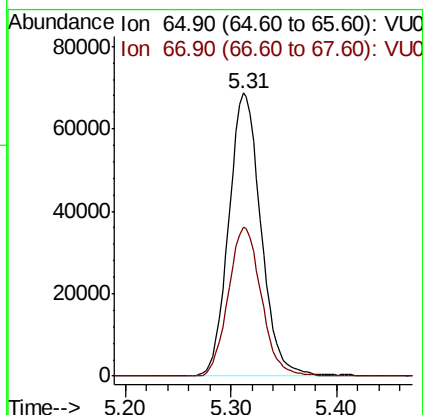
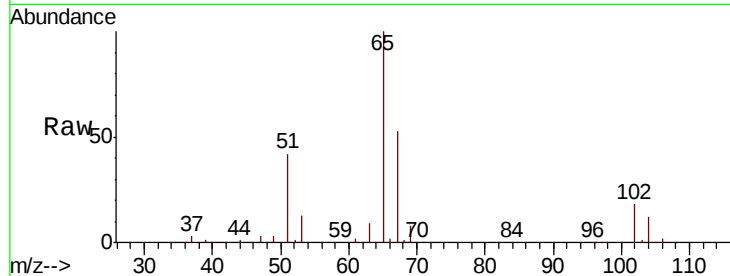




#33
 1,2-Dichloroethane-d4
 Concen: 52.107 ug/l
 RT: 5.31 min Scan# 1287
 Delta R.T. -0.00 min
 Lab File: VU027926.D
 Acq: 02 Nov 2018 15:14

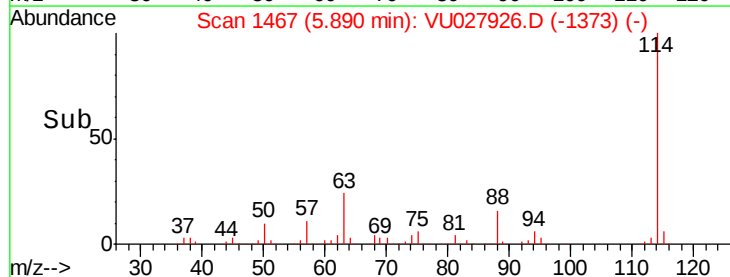
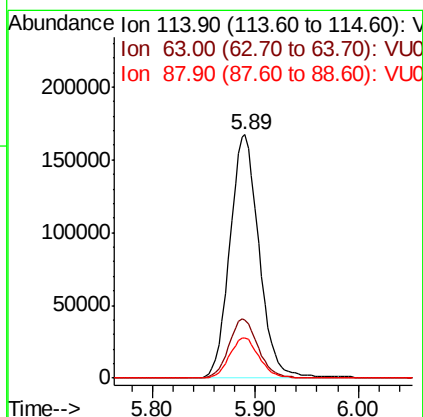
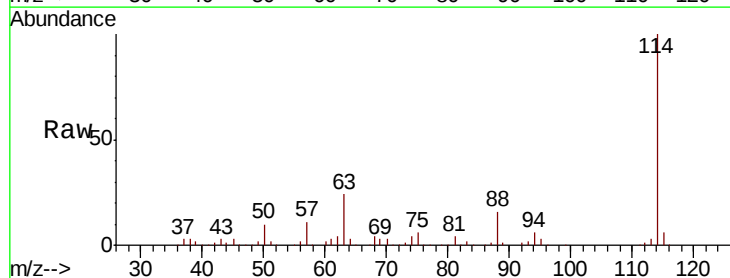
Instrument :
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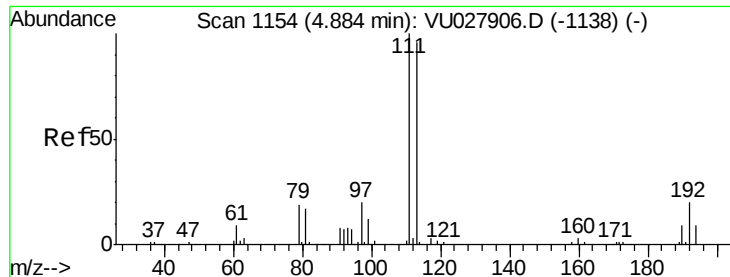
Tot Ion: 65 Resp: 145321
 Ion Ratio Lower Upper
 65 100
 67 53.9 0.0 109.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1467
 Delta R.T. 0.00 min
 Lab File: VU027926.D
 Acq: 02 Nov 2018 15:14

Tgt Ion: 114 Resp: 330858
 Ion Ratio Lower Upper
 114 100
 63 23.9 0.0 50.8
 88 16.5 0.0 35.8





#35

Dibromofluoromethane

Concen: 51.643 ug/l

RT: 4.89 min Scan# 1155

Delta R.T. 0.00 min

Lab File: VU027926.D

Acq: 02 Nov 2018 15:14

Instrument :

MSVOA_U

ClientSampleId :

TP-2

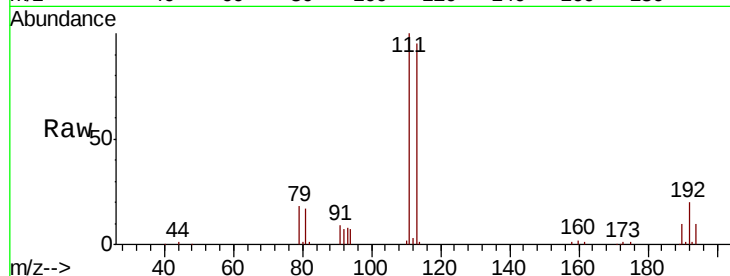
Tot Ion:113 Resp: 107734

Ion Ratio Lower Upper

113 100

111 104.5 83.0 124.6

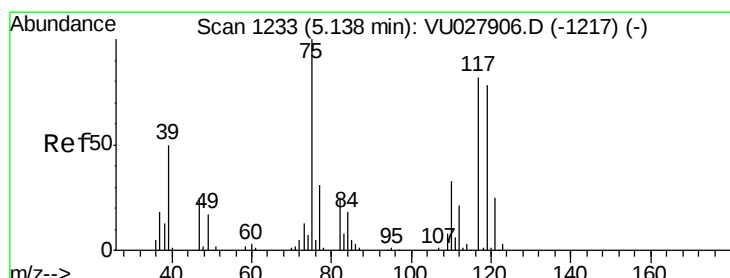
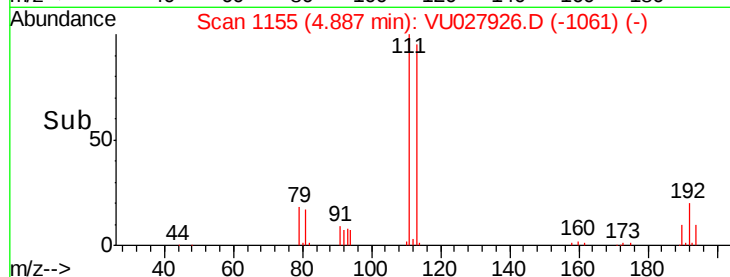
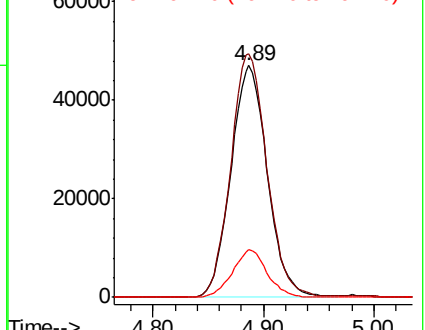
192 19.5 15.6 23.4



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: 4.591 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.15 min

Lab File: VU027926.D

Acq: 02 Nov 2018 15:14

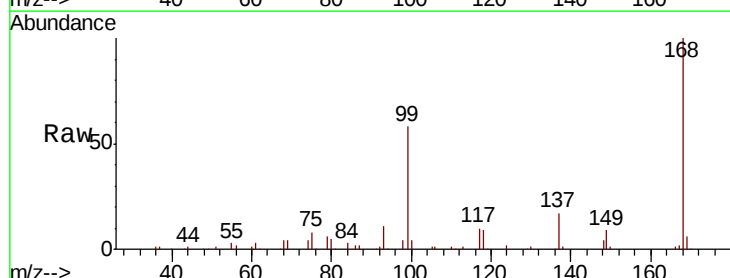
Tgt Ion: 75 Resp: 15908

Ion Ratio Lower Upper

75 100

110 7.5 16.5 49.5#

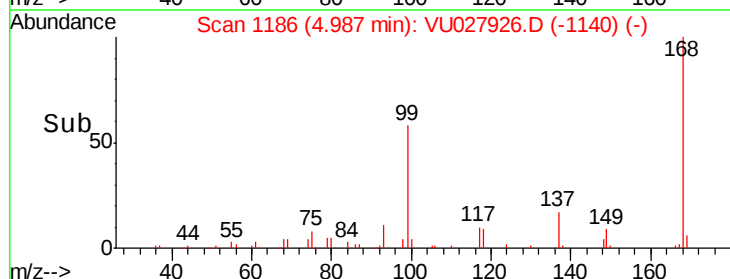
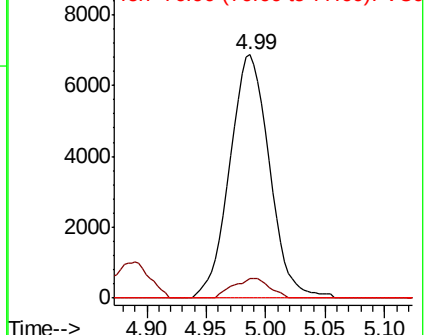
77 0.0 24.9 37.3#

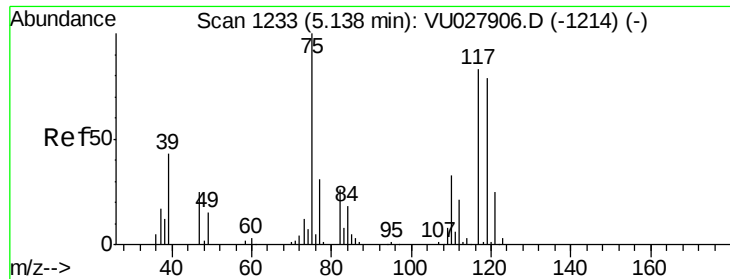


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0

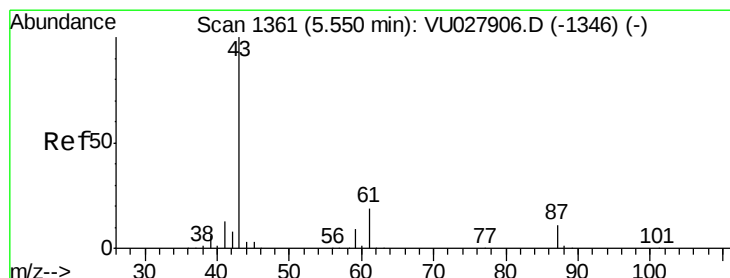
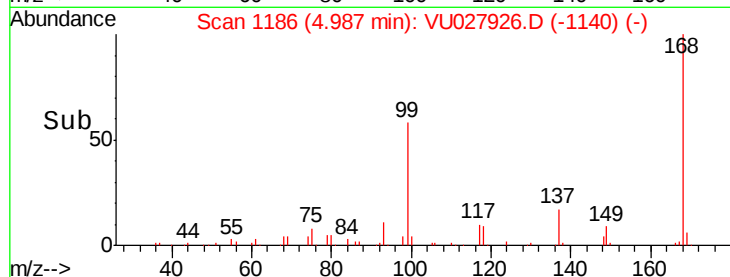
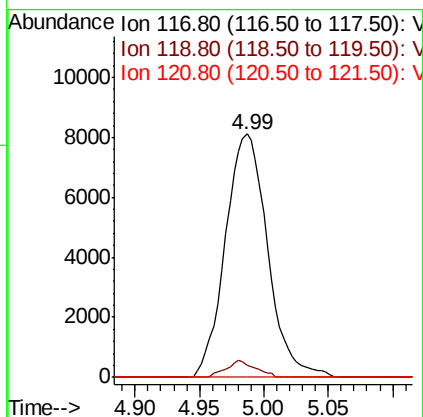
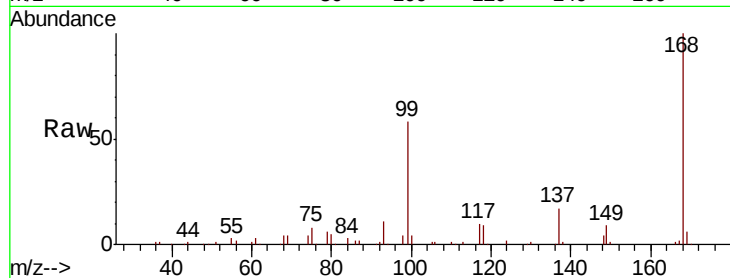




#38
Carbon Tetrachloride
Concen: 6.022 ug/l
RT: 4.99 min Scan# 1186
Delta R.T. -0.15 min
Lab File: VU027926.D
Acq: 02 Nov 2018 15:14

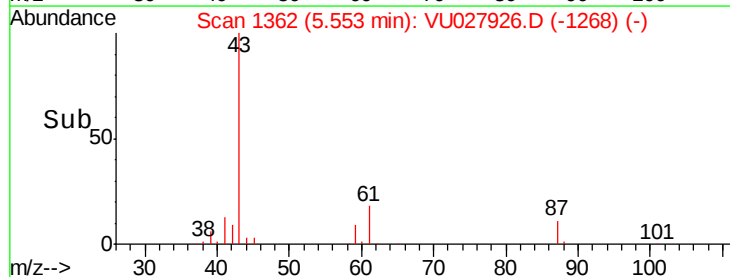
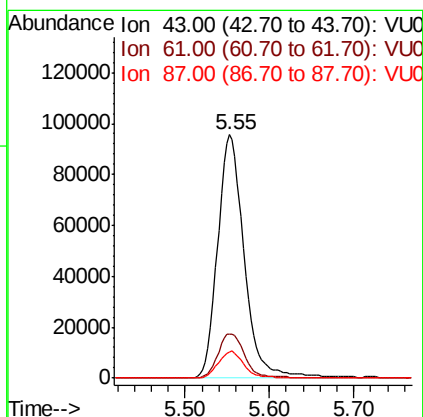
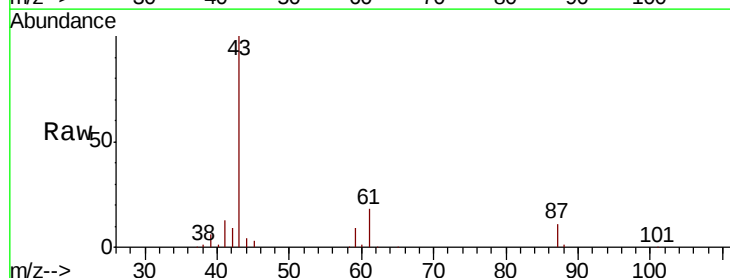
Instrument :
MSVOA_U
ClientSampled :
TP-2

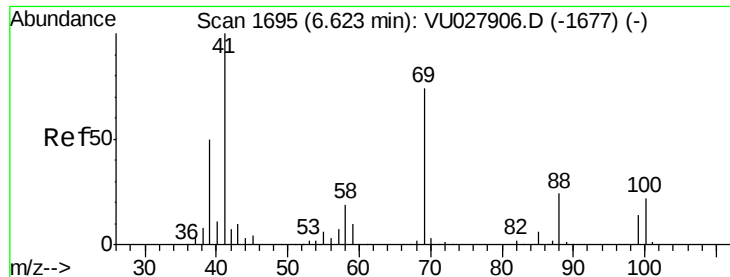
Tot Ion:117 Resp: 18493
Ion Ratio Lower Upper
117 100
119 5.1 76.0 114.0#
121 0.0 24.5 36.7#



#43
Isopropyl Acetate
Concen: 26.255 ug/l
RT: 5.55 min Scan# 1362
Delta R.T. 0.00 min
Lab File: VU027926.D
Acq: 02 Nov 2018 15:14

Tgt Ion: 43 Resp: 208846
Ion Ratio Lower Upper
43 100
61 18.4 15.0 22.4
87 10.7 8.6 12.8

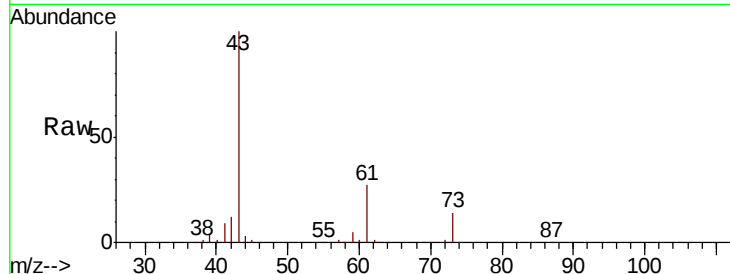




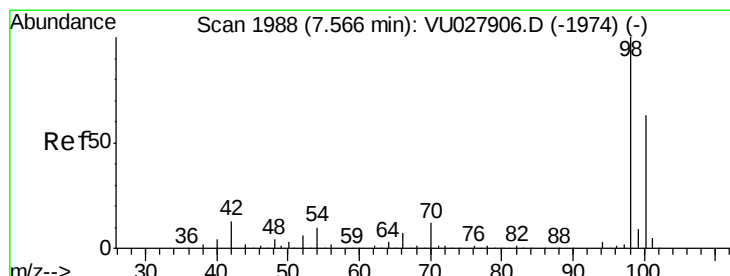
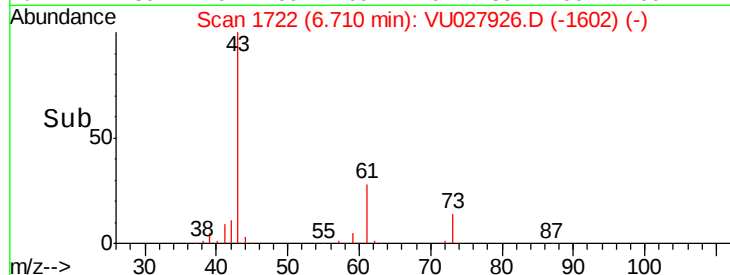
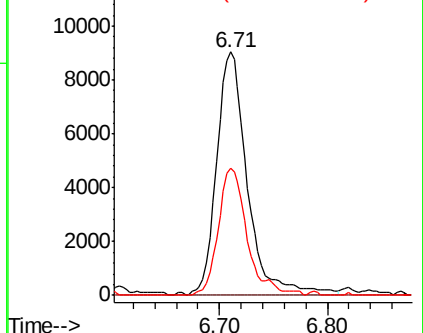
#48
Methvl methacrylate
Concen: 4.599 ug/l
RT: 6.71 min Scan# 1722
Delta R.T. 0.09 min
Lab File: VU027926.D
Acq: 02 Nov 2018 15:14

Instrument :
MSVOA_U
ClientSampleId :
TP-2

Tot Ion: 41 Resp: 17926
Ion Ratio Lower Upper
41 100
69 0.0 59.8 89.8#
39 48.8 40.0 60.0

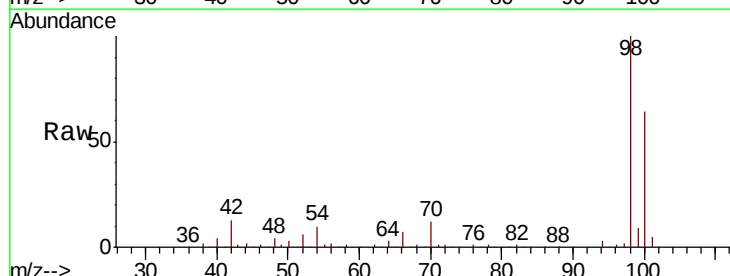


Abundance Ion 41.00 (40.70 to 41.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 39.00 (38.70 to 39.70): VU0

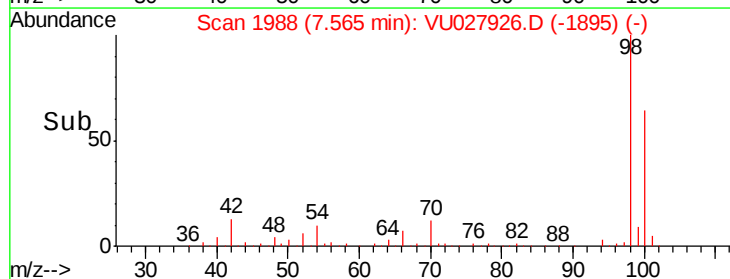
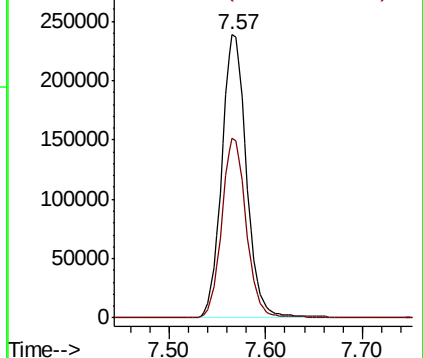


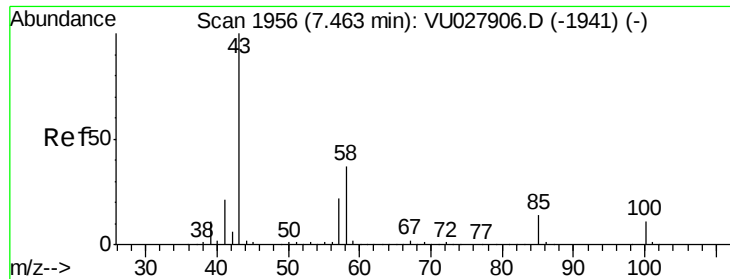
#50
Toluene-d8
Concen: 52.506 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VU027926.D
Acq: 02 Nov 2018 15:14

Tgt Ion: 98 Resp: 423116
Ion Ratio Lower Upper
98 100
100 63.2 50.1 75.1



Abundance Ion 98.00 (97.70 to 98.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

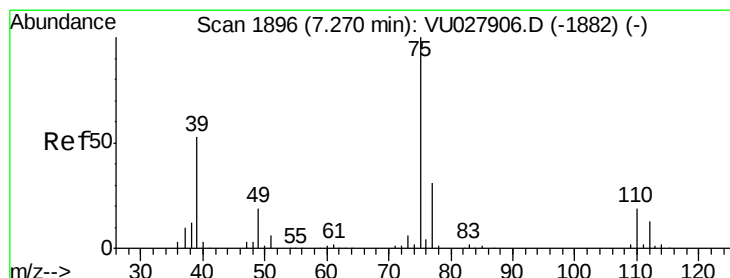
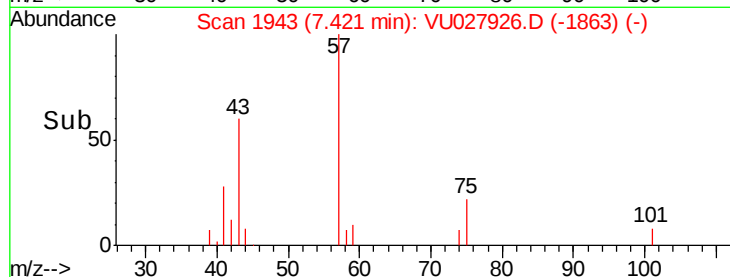
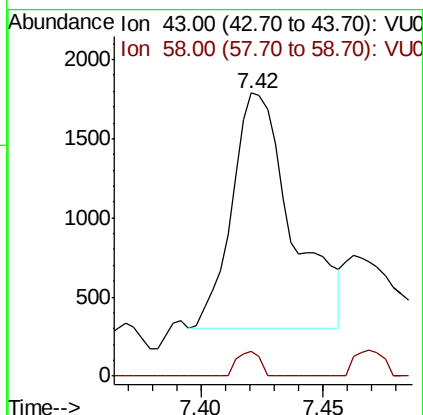
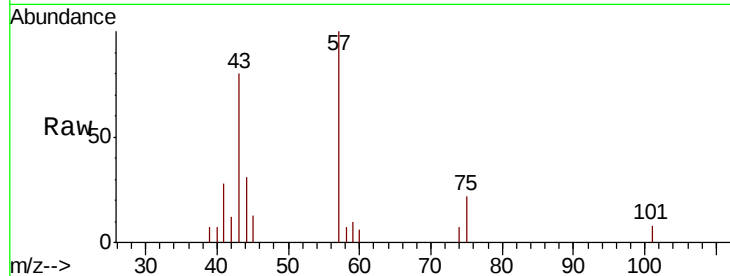




#51
4-Methyl-2-Pentanone
Concen: 0.477 ug/l
RT: 7.42 min Scan# 1943
Delta R.T. -0.04 min
Lab File: VU027926.D
Acq: 02 Nov 2018 15:14

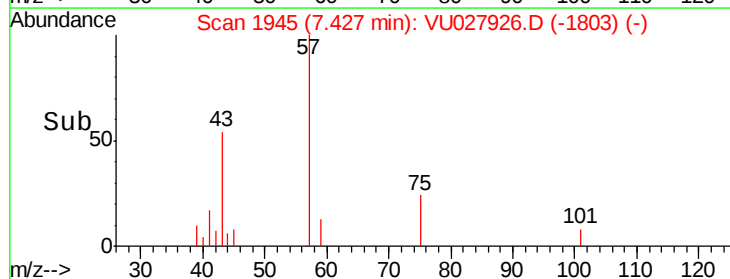
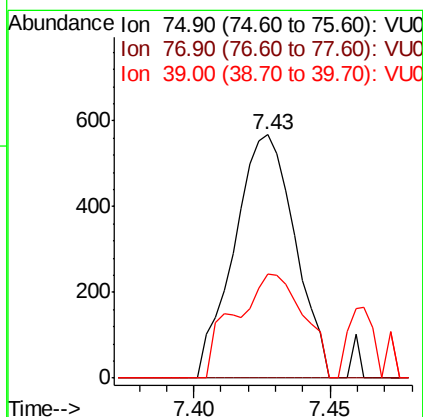
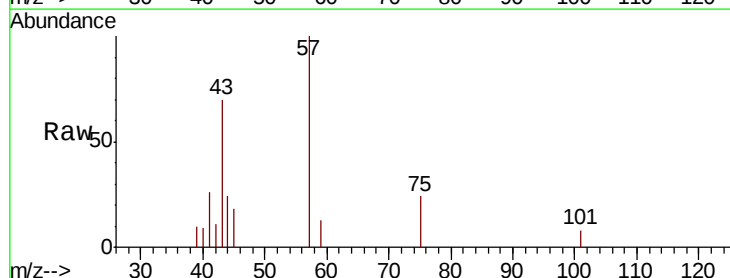
Instrument :
MSVOA_U
ClientSampled :
TP-2

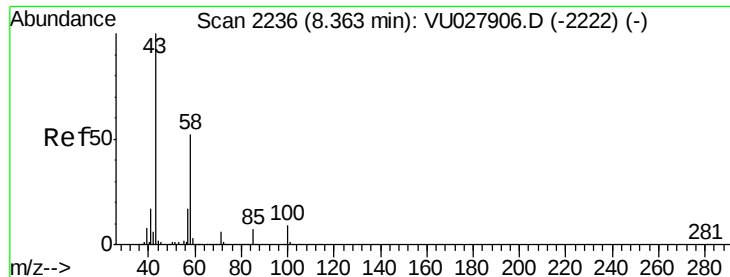
Tot Ion: 43 Resp: 2535
Ion Ratio Lower Upper
43 100
58 0.0 29.5 44.3#



#54
cis-1,3-Dichloropropene
Concen: 0.210 ug/l
RT: 7.43 min Scan# 1945
Delta R.T. 0.16 min
Lab File: VU027926.D
Acq: 02 Nov 2018 15:14

Tgt Ion: 75 Resp: 875
Ion Ratio Lower Upper
75 100
77 0.0 24.6 37.0#
39 43.0 42.6 64.0





#59

2-Hexanone

Concen: 3.243 ug/l

RT: 8.42 min Scan# 2253

Delta R.T. 0.05 min

Lab File: VU027926.D

Acq: 02 Nov 2018 15:14

Instrument :

MSVOA_U

ClientSampleId :

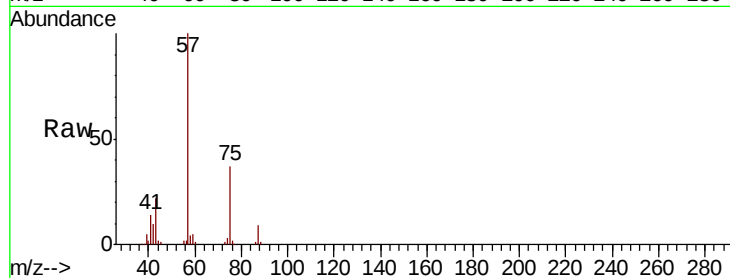
TP-2

Tot Ion: 43 Resp: 13325

Ion Ratio Lower Upper

43 100

58 19.0 25.8 77.3#



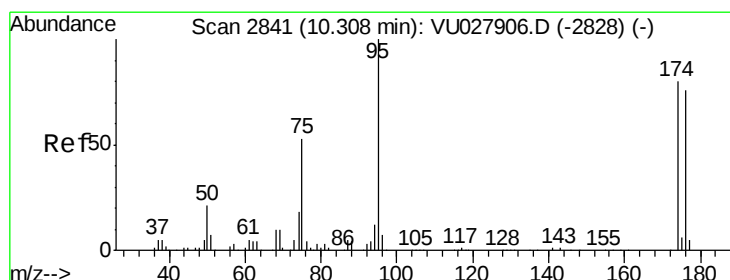
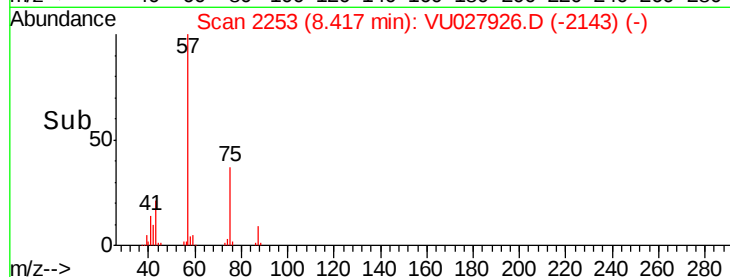
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

8.42

8.35 8.40 8.45

Time-->



#62

4-Bromofluorobenzene

Concen: 46.477 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.00 min

Lab File: VU027926.D

Acq: 02 Nov 2018 15:14

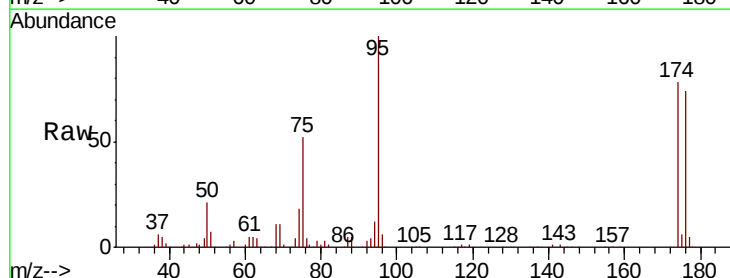
Tgt Ion: 95 Resp: 138146

Ion Ratio Lower Upper

95 100

174 79.2 0.0 156.4

176 74.9 0.0 150.8



Abundance Ion 94.90 (94.60 to 95.60): VU0

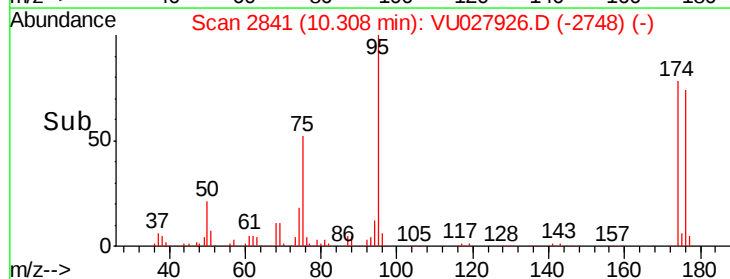
Ion 173.80 (173.50 to 174.50): V

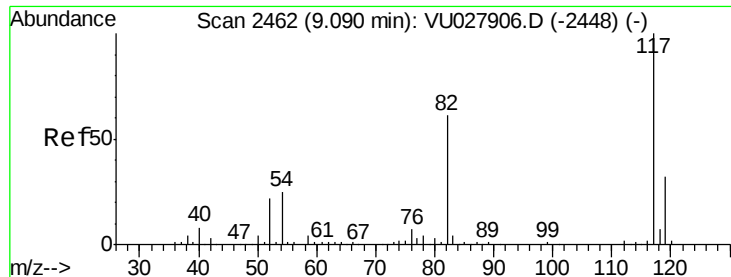
Ion 175.80 (175.50 to 176.50): V

10.31

10.30 10.40

Time-->

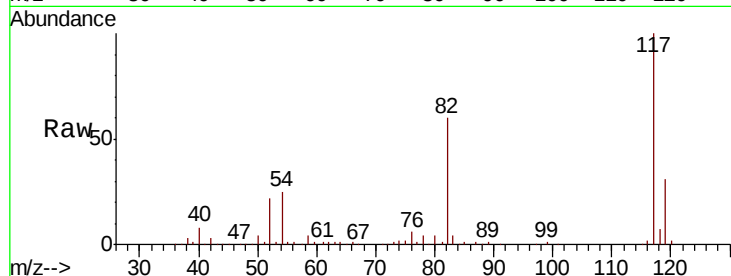




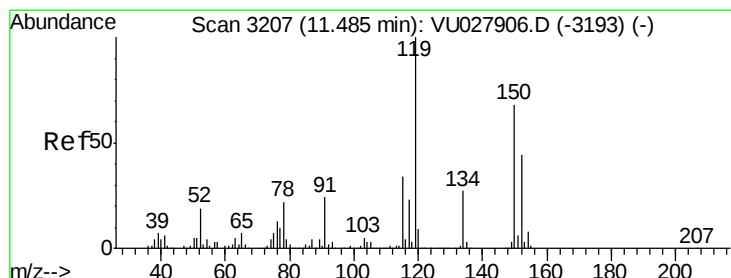
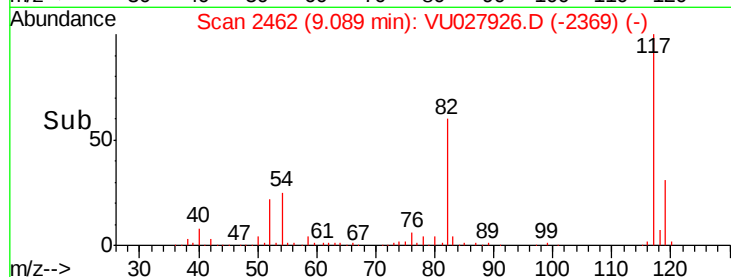
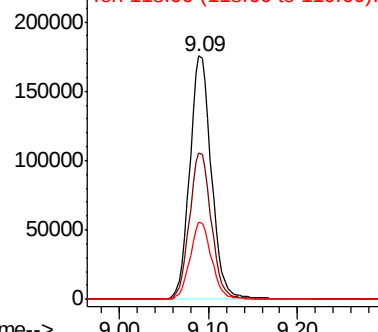
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU027926.D
Acq: 02 Nov 2018 15:14

Instrument :
MSVOA_U
ClientSampleId :
TP-2

Tot Ion:117 Resp: 295490
Ion Ratio Lower Upper
117 100
82 60.3 48.6 73.0
119 31.5 25.8 38.8

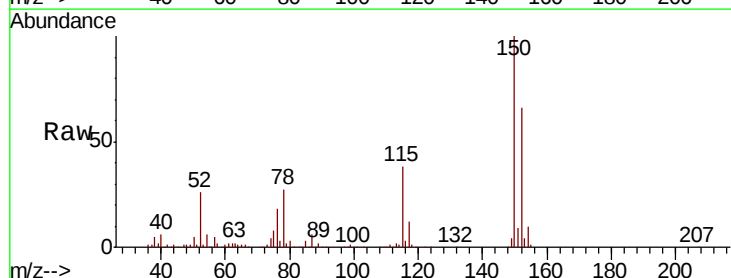


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

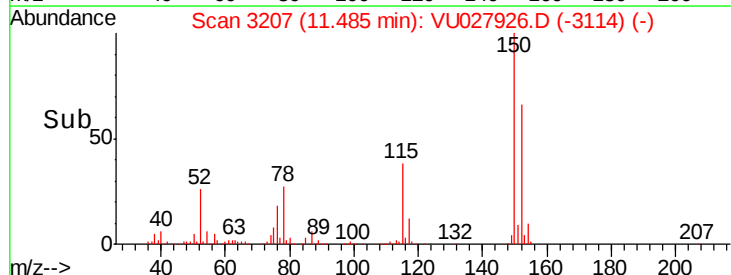
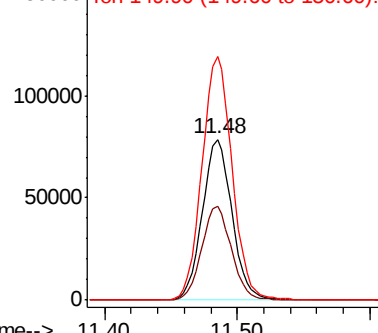


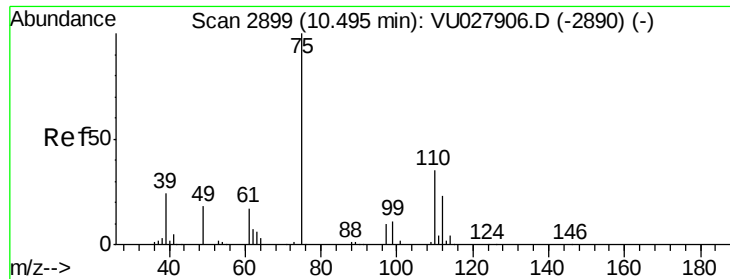
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3207
Delta R.T. -0.00 min
Lab File: VU027926.D
Acq: 02 Nov 2018 15:14

Tgt Ion:152 Resp: 121838
Ion Ratio Lower Upper
152 100
115 58.8 43.0 129.0
150 154.2 0.0 349.4



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: 21.881 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU027926.D

Acq: 02 Nov 2018 15:14

Instrument :

MSVOA_U

ClientSampled :

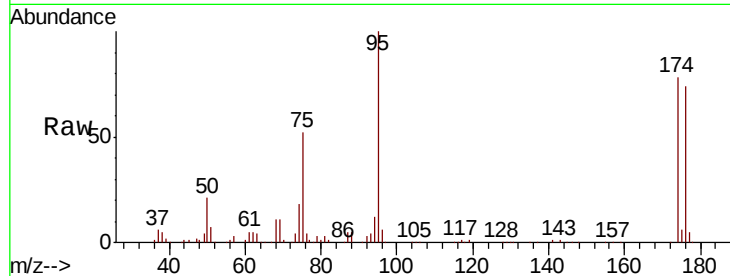
TP-2

Tot Ion: 75 Resp: 72920

Ion Ratio Lower Upper

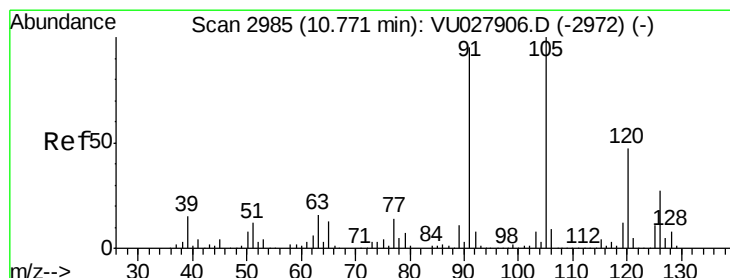
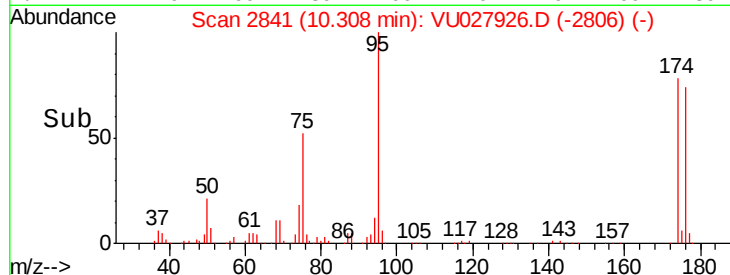
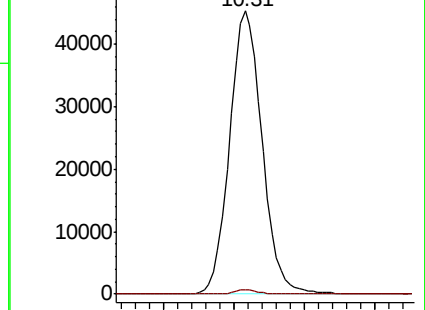
75 100

77 1.2 21.6 64.6#



Abundance Ion 74.90 (74.60 to 75.60): VU027906.D (-2890) (-)

Ion 77.00 (76.70 to 77.70): VU027906.D (-2890) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.214 ug/l

RT: 10.78 min Scan# 2987

Delta R.T. 0.01 min

Lab File: VU027926.D

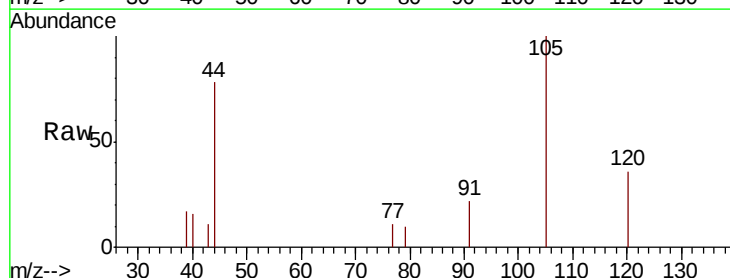
Acq: 02 Nov 2018 15:14

Tgt Ion: 105 Resp: 1677

Ion Ratio Lower Upper

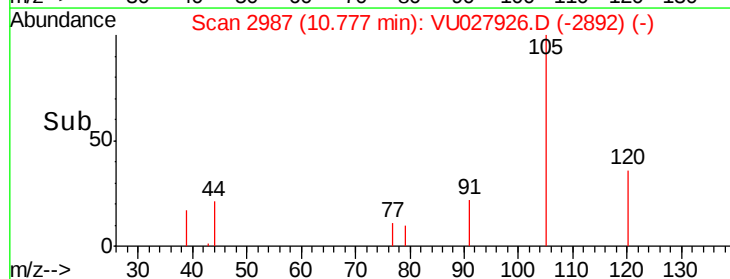
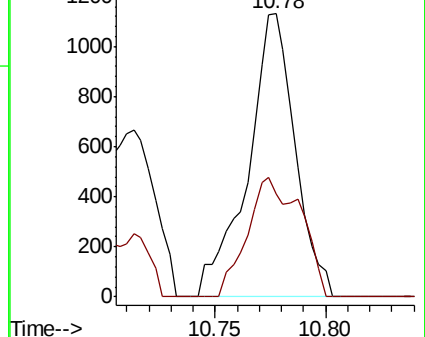
105 100

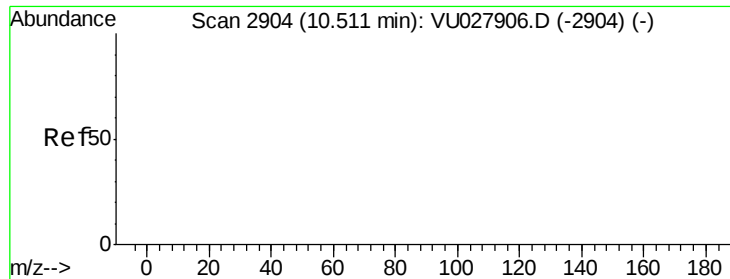
120 47.7 23.3 69.9



Abundance Ion 105.00 (104.70 to 105.70): VU027906.D (-2972) (-)

Ion 120.00 (119.70 to 120.70): VU027906.D (-2972) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 54.607 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.20 min

Lab File: VU027926.D

Acq: 02 Nov 2018 15:14

Instrument :

MSVOA_U

ClientSampleId :

TP-2

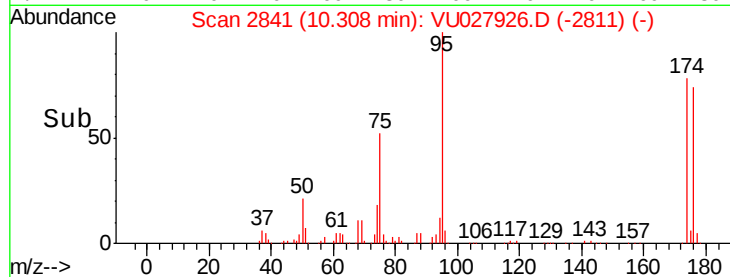
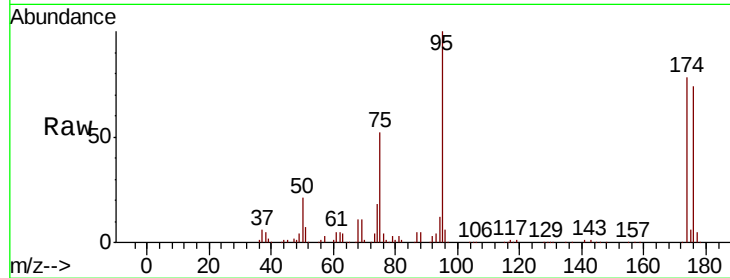
Tot Ion: 75 Resp: 72920

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

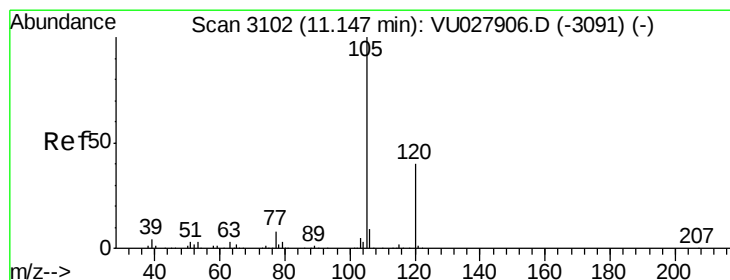
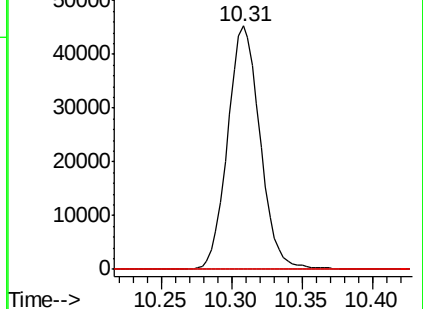
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0



#84

1,2,4-Trimethylbenzene

Concen: 0.504 ug/l

RT: 11.15 min Scan# 3103

Delta R.T. 0.00 min

Lab File: VU027926.D

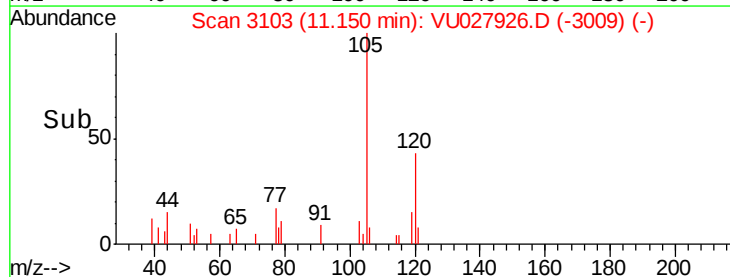
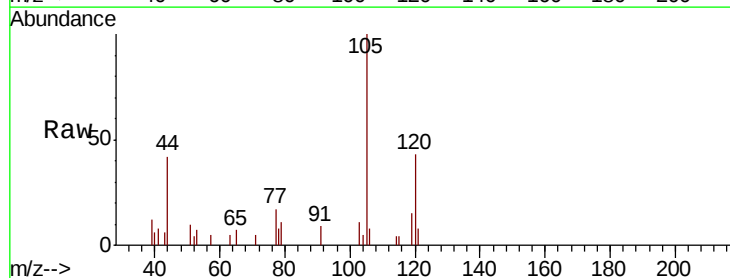
Acq: 02 Nov 2018 15:14

Tgt Ion: 105 Resp: 3971

Ion Ratio Lower Upper

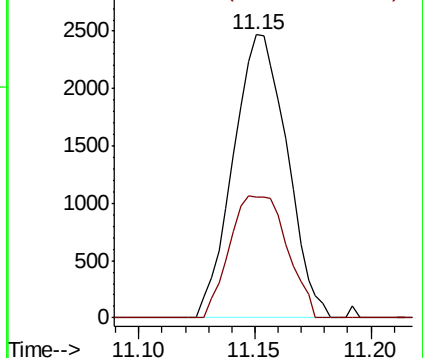
105 100

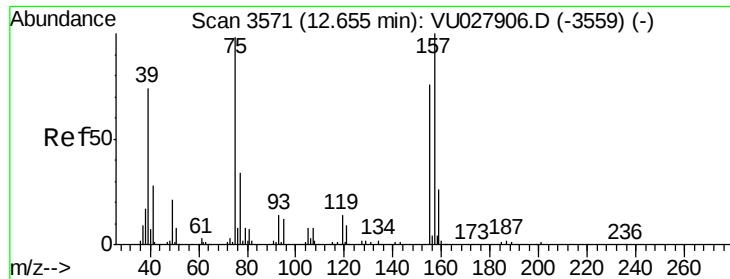
120 45.9 22.1 66.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

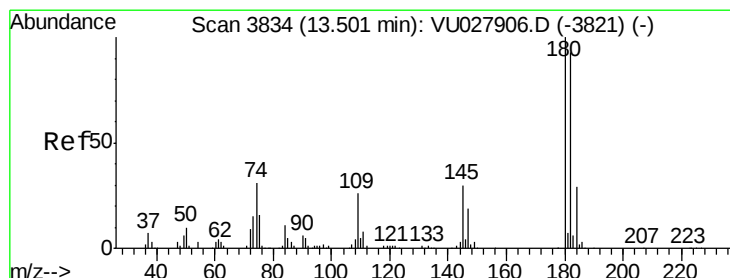
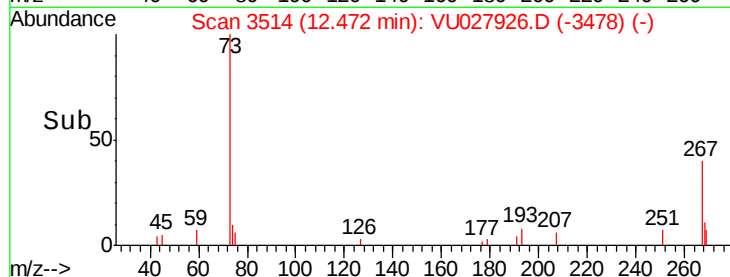
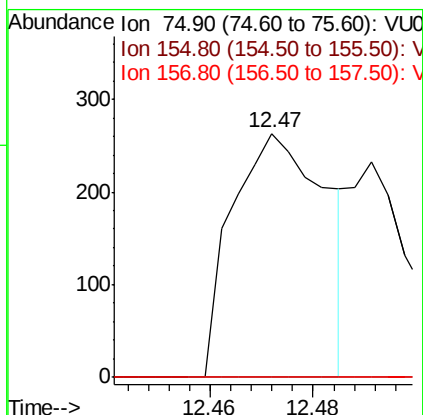
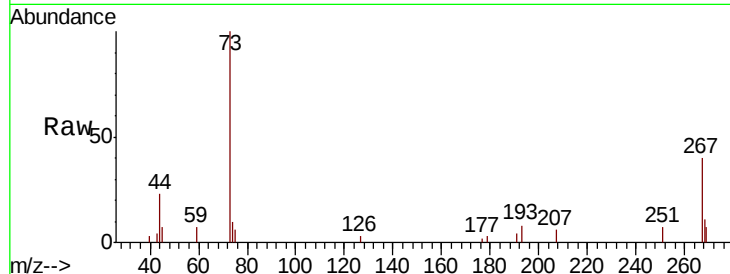




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.414 ug/l
 RT: 12.47 min Scan# 3514
 Delta R.T. -0.18 min
 Lab File: VU027926.D
 Acq: 02 Nov 2018 15:14

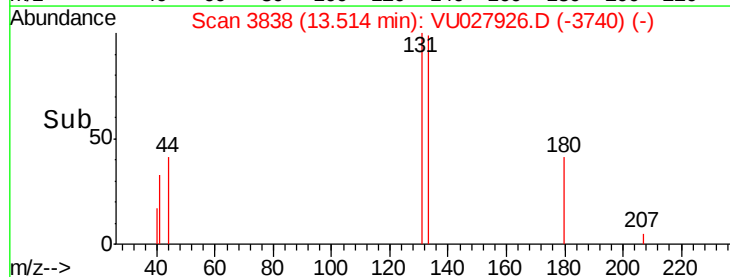
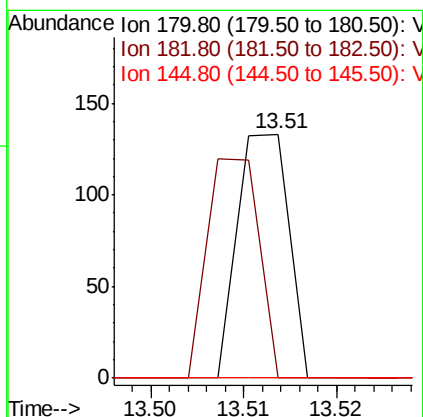
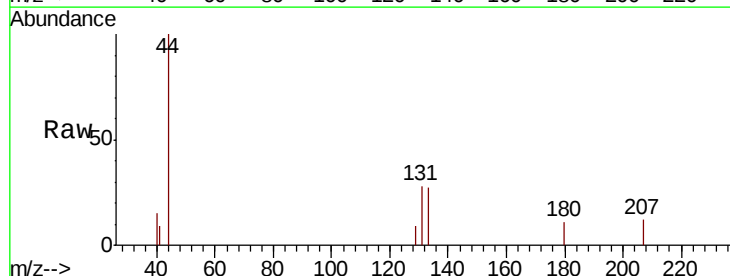
Instrument :
 MSVOA_U
 ClientSampleId :
 TP-2

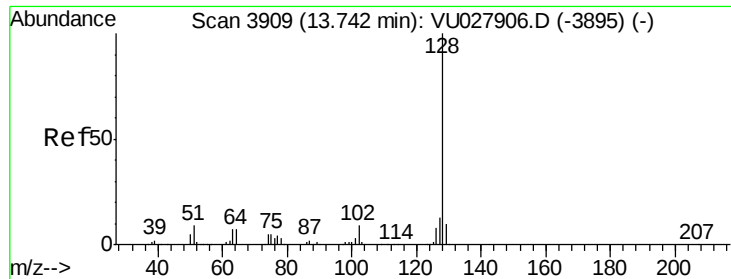
Tot Ion: 75 Resp: 332
 Ion Ratio Lower Upper
 75 100
 155 0.0 39.8 119.3#
 157 0.0 50.6 151.9#



#93
 1,2,4-Trichlorobenzene
 Concen: 0.702 ug/l
 RT: 13.51 min Scan# 3838
 Delta R.T. 0.01 min
 Lab File: VU027926.D
 Acq: 02 Nov 2018 15:14

Tgt Ion: 180 Resp: 51
 Ion Ratio Lower Upper
 180 100
 182 90.2 48.4 145.2
 145 0.0 14.9 44.5#





#95
 Naphthalene
 Concen: 2.993 ug/l
 RT: 13.75 min Scan# 3910
 Delta R.T. 0.00 min
 Lab File: VU027926.D
 Acq: 02 Nov 2018 15:14

Instrument :
 MSVOA_U
 ClientSampleId :
 TP-2

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.3	10.4	15.6
129	10.1	8.3	12.5

