

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU100418\
 Data File : VU027393.D
 Acq On : 04 Oct 2018 09:14
 Operator : MD/SY
 Sample : VU1004WBL01
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1004WBL02

Quant Time: Oct 05 03:11:02 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U100118W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 02 02:04:34 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	87819	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	151536	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	143214	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	73497	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	89292	60.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	121.78%	
35) Dibromofluoromethane	4.88	113	63556	61.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	122.40%	
50) Toluene-d8	7.57	98	233442	60.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	120.12%	
62) 4-Bromofluorobenzene	10.31	95	80232	55.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.08%	

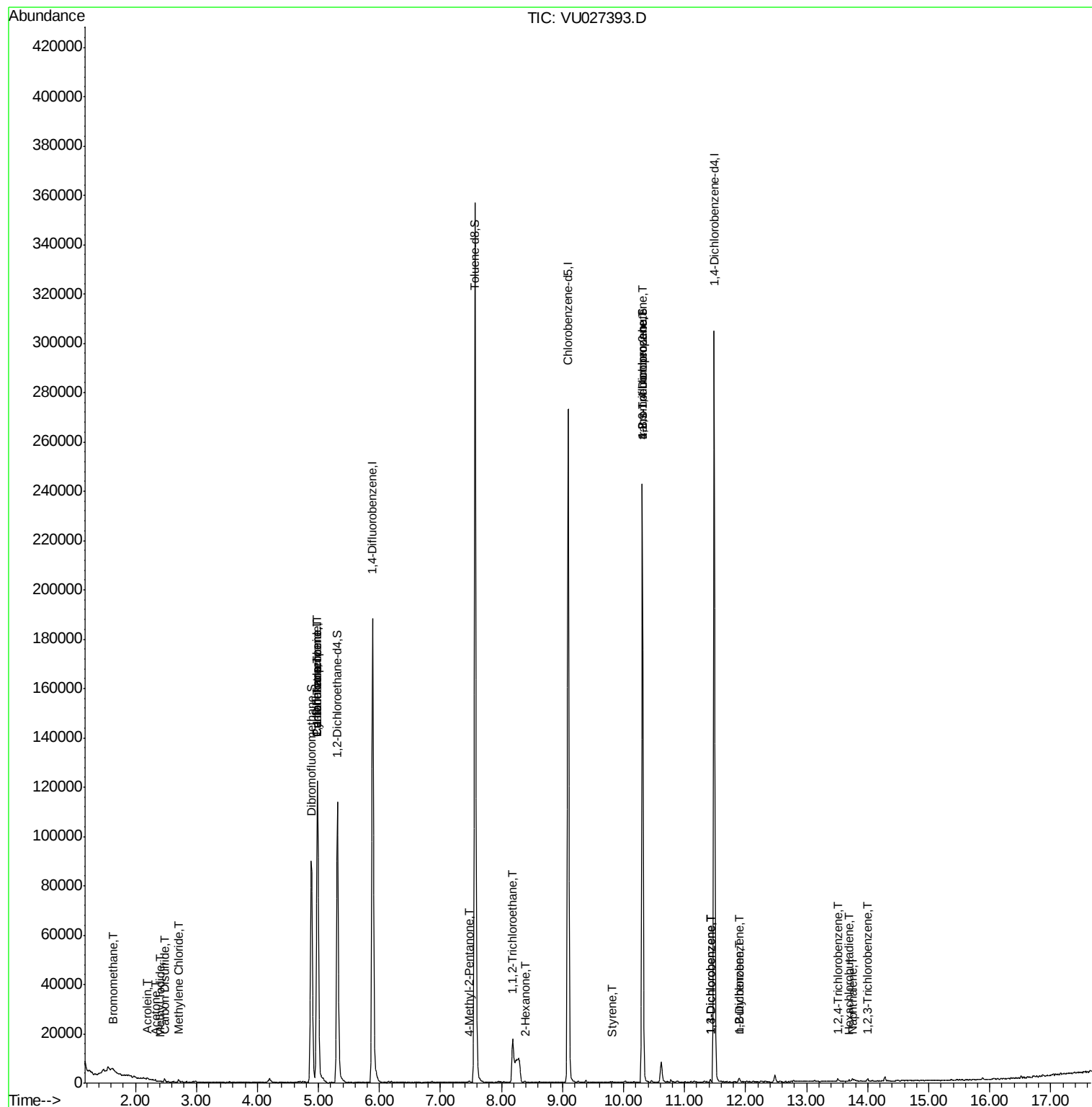
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	167	0.240	ug/l	86
10) Methyl Iodide	2.41	142	159	8.488	ug/l #	39
13) Acrolein	2.20	56	85	0.328	ug/l #	40
16) Acetone	2.32	43	677	0.781	ug/l #	44
17) Carbon Disulfide	2.48	76	1659	0.496	ug/l #	90
20) Methylene Chloride	2.70	84	339	0.281	ug/l #	36
31) Cyclohexane	4.98	56	2238	0.717	ug/l #	1
36) 1,1-Dichloropropene	4.98	75	8063	4.901	ug/l #	50
38) Carbon Tetrachloride	4.98	117	9011	6.063	ug/l #	19
51) 4-Methyl-2-Pentanone	7.46	43	687	0.320	ug/l #	38
55) 1,1,2-Trichloroethane	8.19	97	397	0.353	ug/l #	13
59) 2-Hexanone	8.38	43	784	0.471	ug/l #	60
70) Styrene	9.81	104	268	2.373	ug/l #	24
76) 1,2,3-Trichloropropane	10.31	75	43087	22.615	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.31	75	43087	59.187	ug/l #	100
87) 1,3-Dichlorobenzene	11.42	146	643	0.274	ug/l	94
88) 1,4-Dichlorobenzene	11.42	146	643	0.268	ug/l	94
89) n-Butylbenzene	11.89	91	843	2.118	ug/l	82
91) 1,2-Dichlorobenzene	11.88	146	465	0.203	ug/l	85
93) 1,2,4-Trichlorobenzene	13.51	180	613	0.414	ug/l	93
94) Hexachlorobutadiene	13.69	225	223	0.298	ug/l	77
95) Naphthalene	13.75	128	1796	1.972	ug/l #	80
96) 1,2,3-Trichlorobenzene	13.99	180	611	0.396	ug/l #	88

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

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Instrument :
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ClientSampleId :
VU1004WBL02

Quant Time: Oct 05 03:11:02 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U100118W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 02 02:04:34 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU027393.D

Acq: 04 Oct 2018 09:14

Instrument :

MSVOA_U

ClientSampleId :

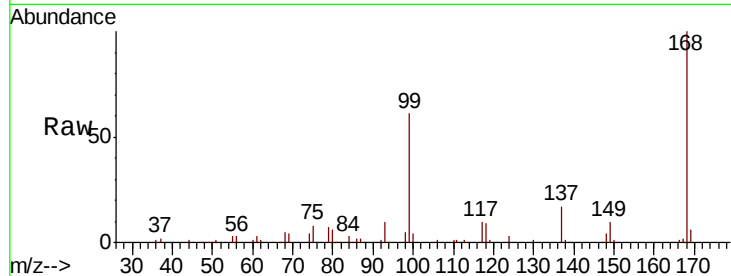
VU1004WBL02

Tgt Ion:168 Resp: 87819

Ion Ratio Lower Upper

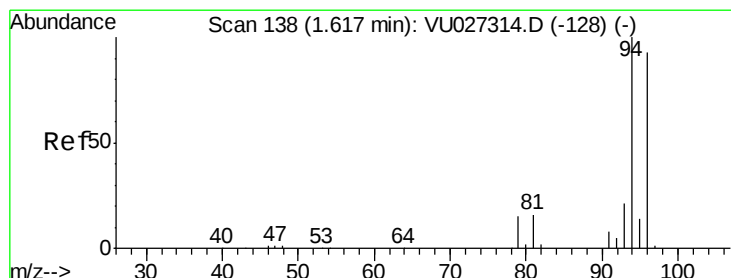
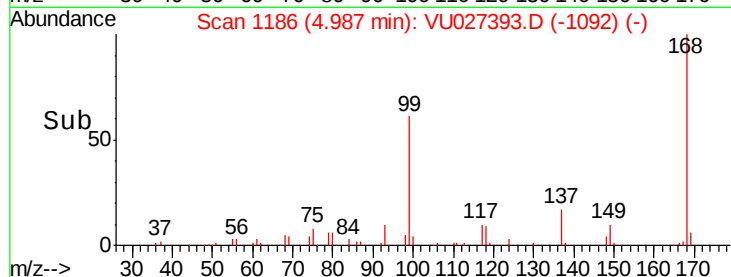
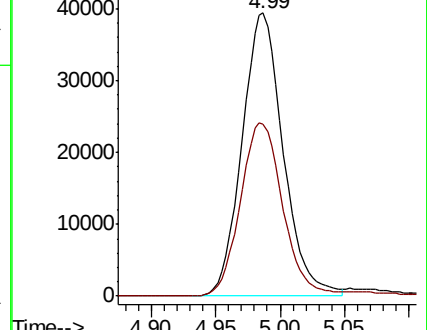
168 100

99 60.7 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): VU027314.D (-1169) (-)

Ion 98.90 (98.60 to 99.60): VU027314.D (-1169) (-)



#5

Bromomethane

Concen: 0.240 ug/l

RT: 1.63 min Scan# 142

Delta R.T. 0.01 min

Lab File: VU027393.D

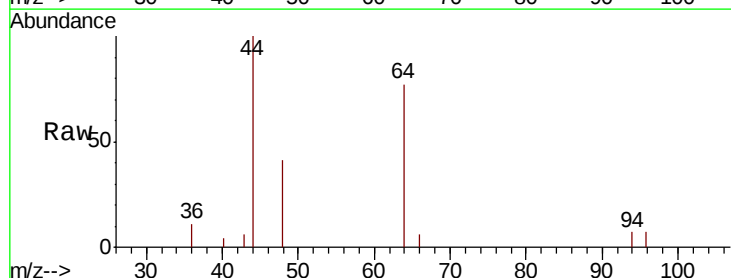
Acq: 04 Oct 2018 09:14

Tgt Ion: 94 Resp: 167

Ion Ratio Lower Upper

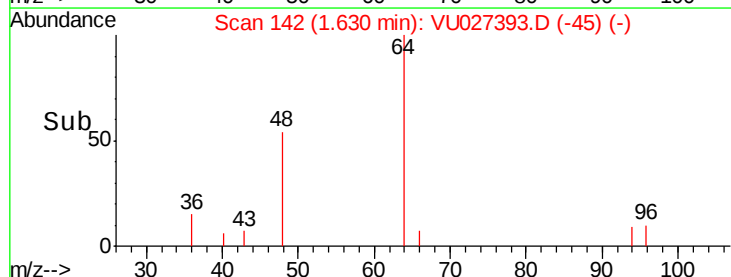
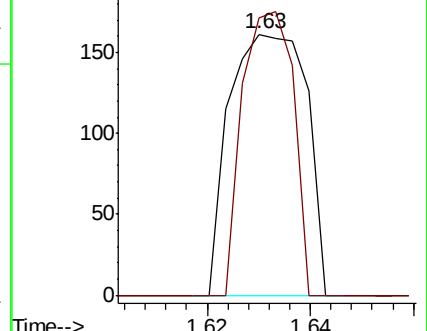
94 100

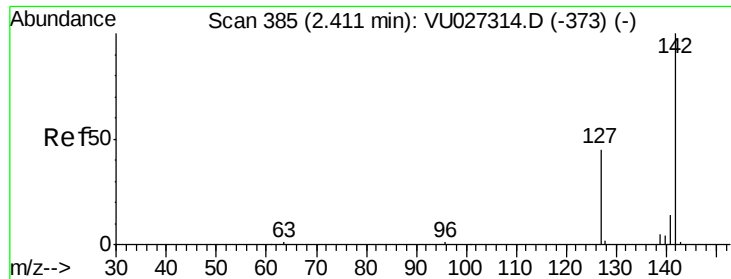
96 106.2 74.6 111.8



Abundance Ion 93.90 (93.60 to 94.60): VU027314.D (-128) (-)

Ion 95.90 (95.60 to 96.60): VU027314.D (-128) (-)

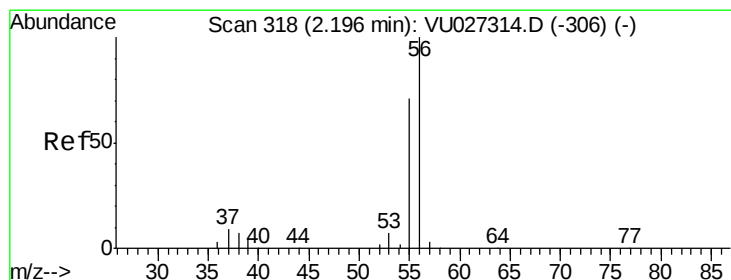
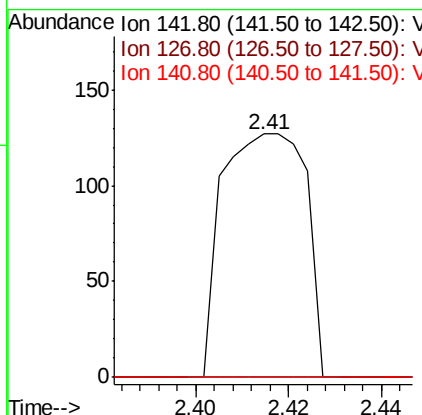
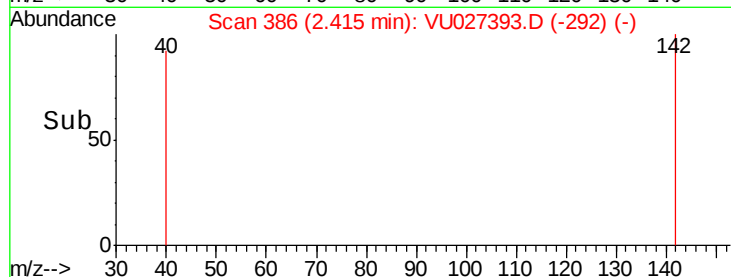
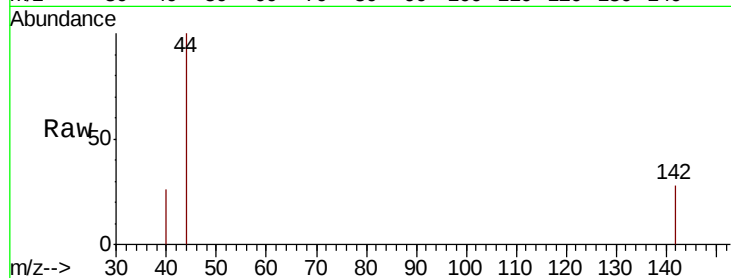




#10
Methyl Iodide
Concen: 8.488 ug/l
RT: 2.41 min Scan# 386
Delta R.T. 0.00 min
Lab File: VU027393.D
Acq: 04 Oct 2018 09:14

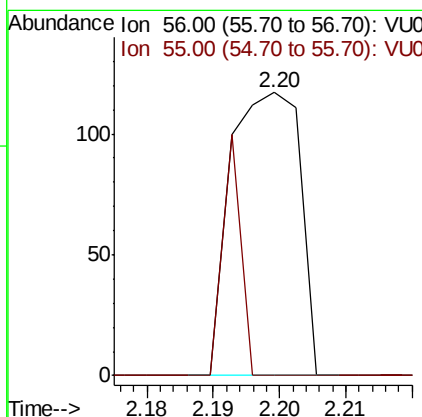
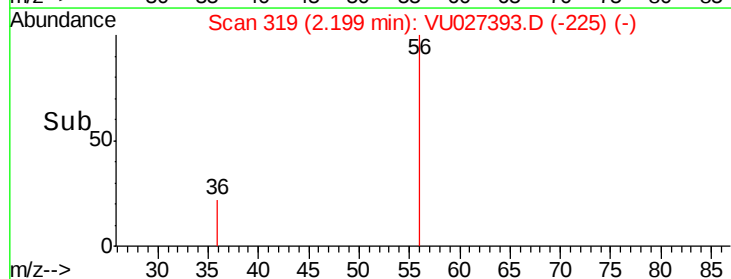
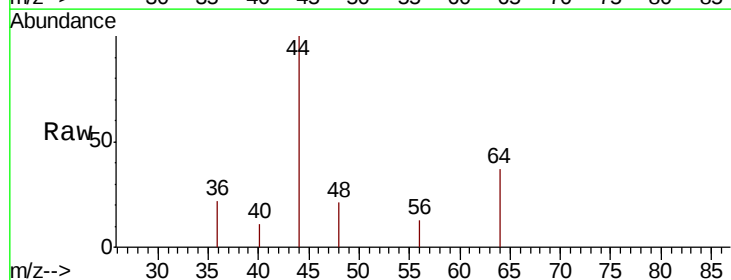
Instrument :
MSVOA_U
ClientSampleId :
VU1004WBL02

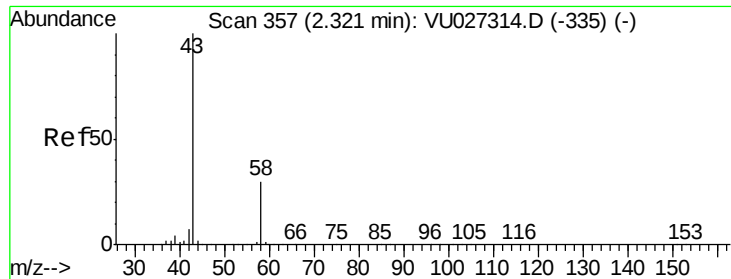
Tgt Ion: 142 Resp: 159
Ion Ratio Lower Upper
142 100
127 0.0 36.3 54.5#
141 0.0 11.6 17.4#



#13
Acrolein
Concen: 0.328 ug/l
RT: 2.20 min Scan# 319
Delta R.T. 0.00 min
Lab File: VU027393.D
Acq: 04 Oct 2018 09:14

Tgt Ion: 56 Resp: 85
Ion Ratio Lower Upper
56 100
55 22.4 57.7 86.5#





#16

Acetone

Concen: 0.781 ug/l

RT: 2.32 min Scan# 356

Delta R.T. -0.00 min

Lab File: VU027393.D

Acq: 04 Oct 2018 09:14

Instrument :

MSVOA_U

ClientSampleId :

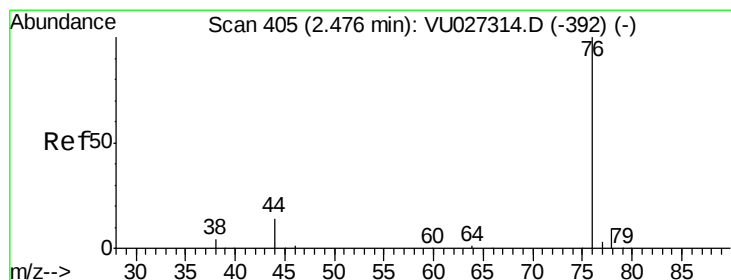
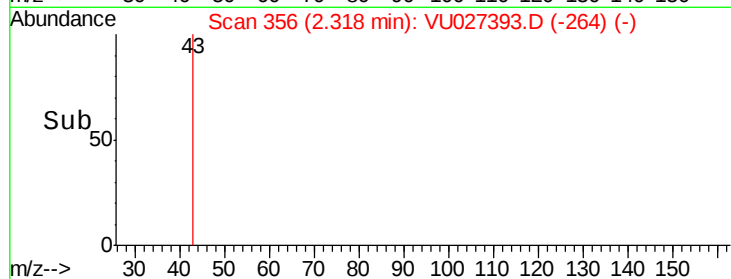
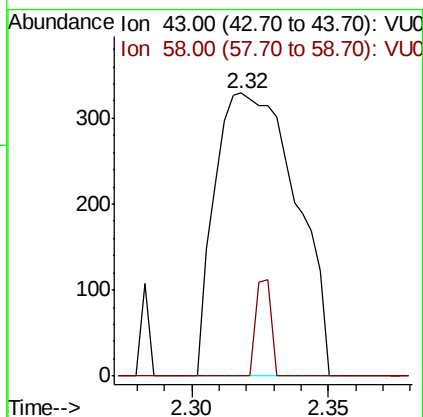
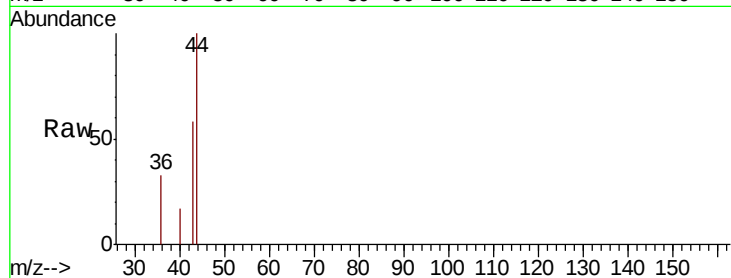
VU1004WBL02

Tgt Ion: 43 Resp: 677

Ion Ratio Lower Upper

43 100

58 0.0 24.2 36.4#



#17

Carbon Disulfide

Concen: 0.496 ug/l

RT: 2.48 min Scan# 406

Delta R.T. 0.00 min

Lab File: VU027393.D

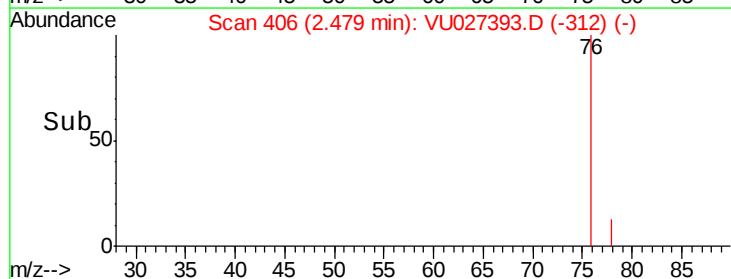
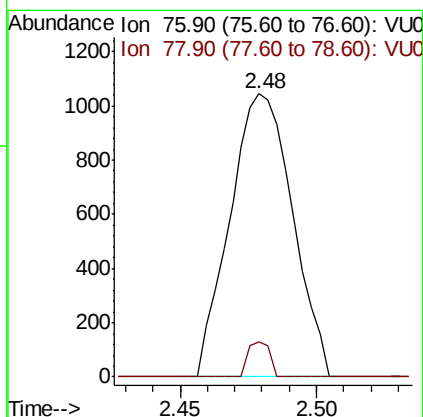
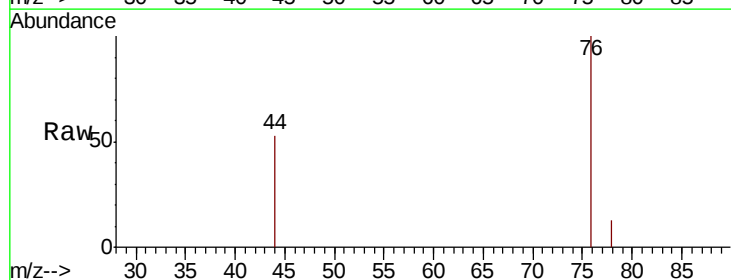
Acq: 04 Oct 2018 09:14

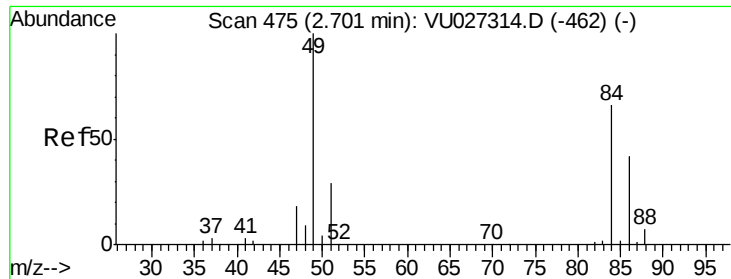
Tgt Ion: 76 Resp: 1659

Ion Ratio Lower Upper

76 100

78 12.6 7.3 10.9#

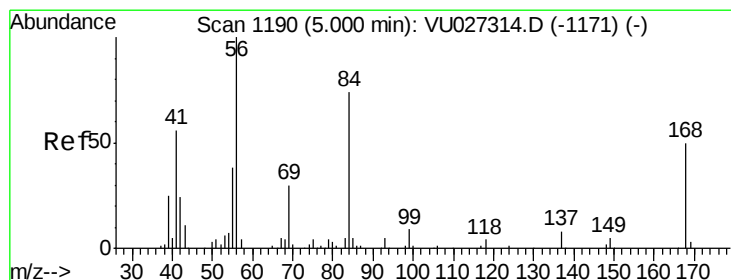
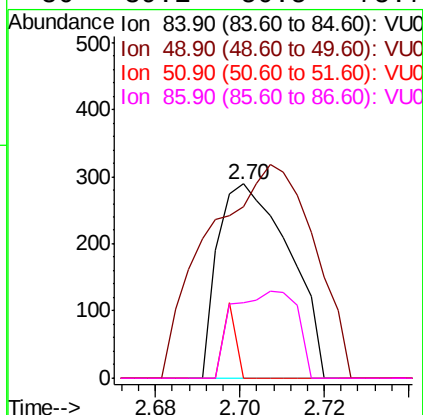
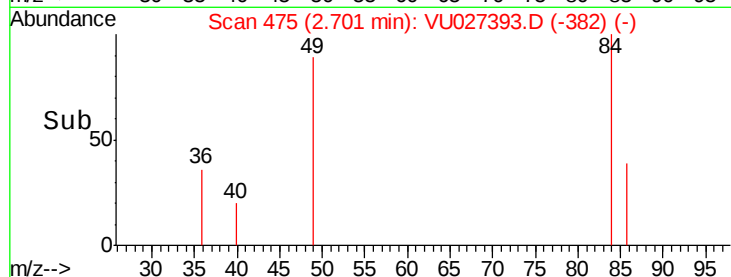
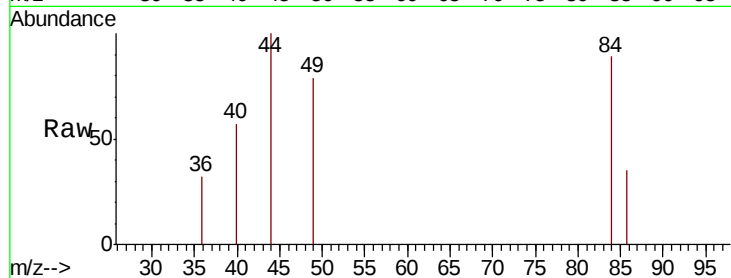




#20
Methylene Chloride
Concen: 0.281 ug/l
RT: 2.70 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU027393.D
Acq: 04 Oct 2018 09:14

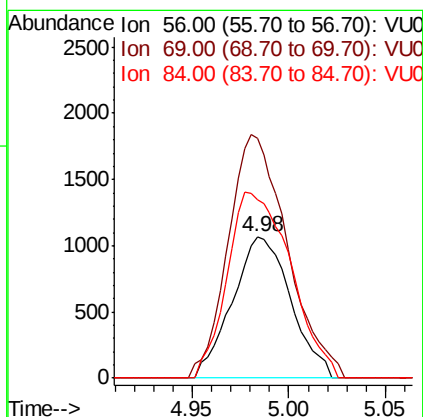
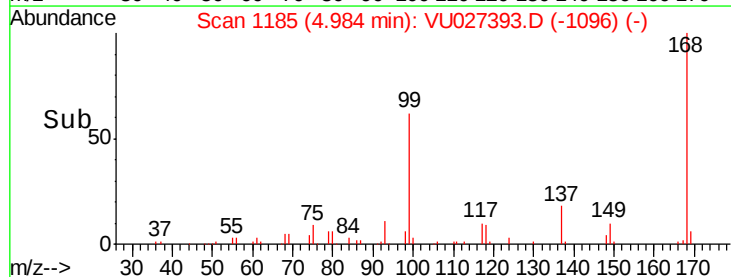
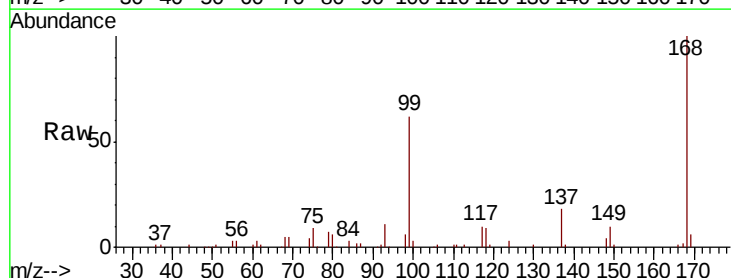
Instrument :
MSVOA_U
ClientSampleId :
VU1004WBL02

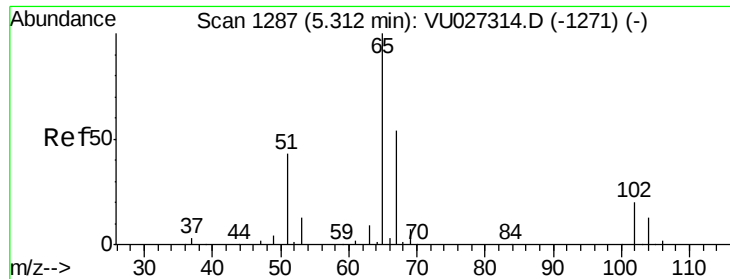
Tgt Ion: 84 Resp: 339
Ion Ratio Lower Upper
84 100
49 53.6 120.5 180.7#
51 0.0 35.1 52.7#
86 39.1 50.5 75.7#



#31
Cyclohexane
Concen: 0.717 ug/l
RT: 4.98 min Scan# 1185
Delta R.T. -0.02 min
Lab File: VU027393.D
Acq: 04 Oct 2018 09:14

Tgt Ion: 56 Resp: 2238
Ion Ratio Lower Upper
56 100
69 169.6 24.1 36.1#
84 125.9 59.1 88.7#

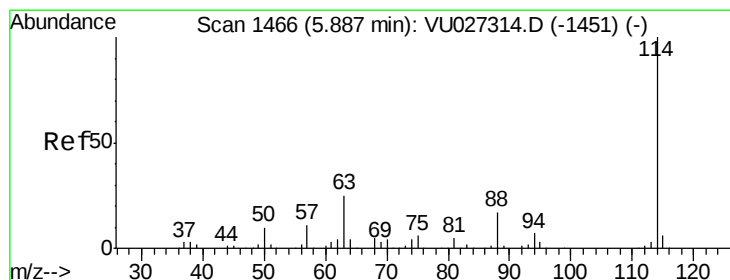
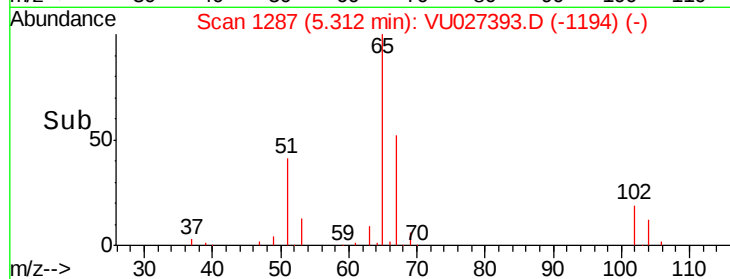
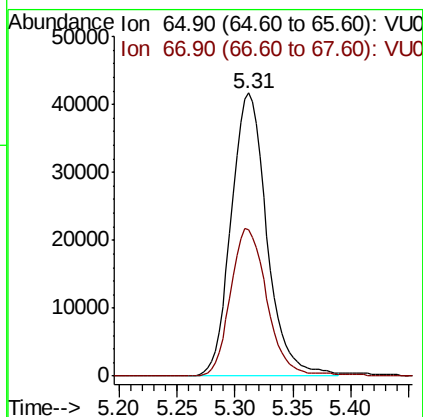
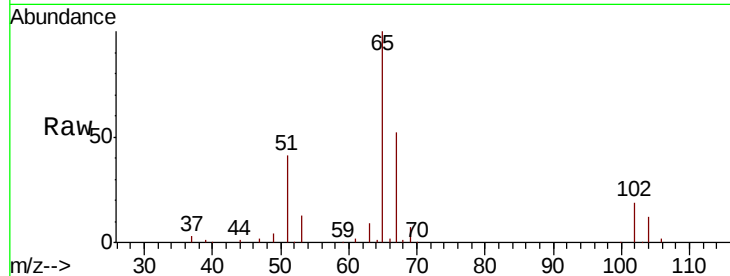




#33
 1,2-Dichloroethane-d4
 Concen: 60.891 ug/l
 RT: 5.31 min Scan# 1287
 Delta R.T. 0.00 min
 Lab File: VU027393.D
 Acq: 04 Oct 2018 09:14

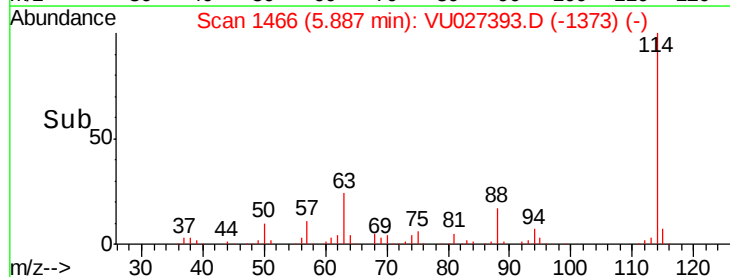
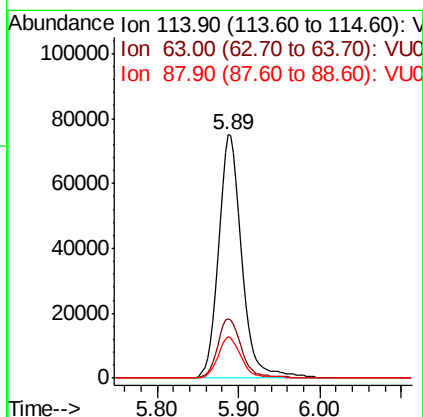
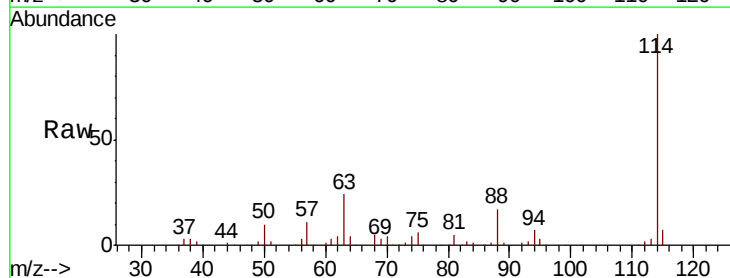
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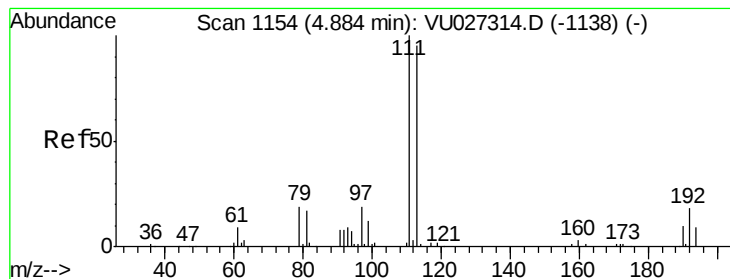
Tgt Ion: 65 Resp: 89292
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. 0.00 min
 Lab File: VU027393.D
 Acq: 04 Oct 2018 09:14

Tgt Ion: 114 Resp: 151536
 Ion Ratio Lower Upper
 114 100
 63 24.3 0.0 50.2
 88 16.8 0.0 33.8





#35

Dibromofluoromethane

Concen: 61.198 ug/l

RT: 4.88 min Scan# 1154

Delta R.T. 0.00 min

Lab File: VU027393.D

Acq: 04 Oct 2018 09:14

Instrument :

MSVOA_U

ClientSampleId :

VU1004WBL02

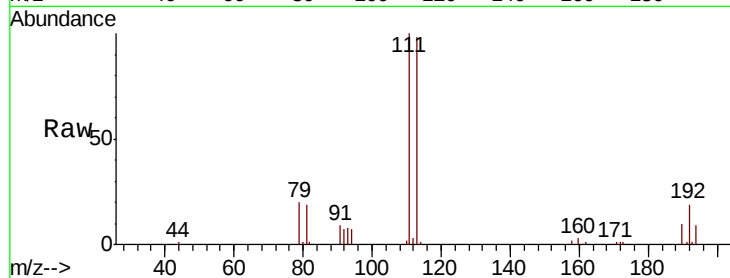
Tgt Ion:113 Resp: 63556

Ion Ratio Lower Upper

113 100

111 101.5 83.1 124.7

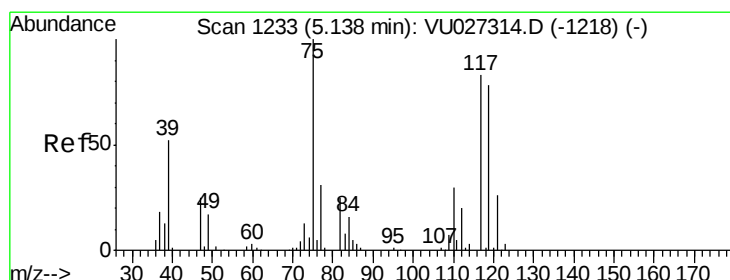
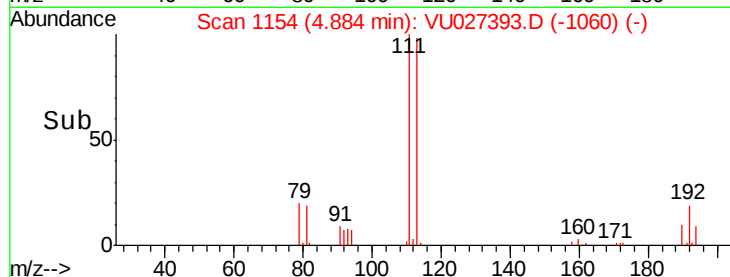
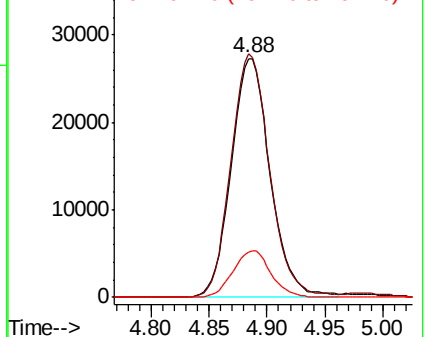
192 19.0 15.4 23.0



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: 4.901 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. -0.16 min

Lab File: VU027393.D

Acq: 04 Oct 2018 09:14

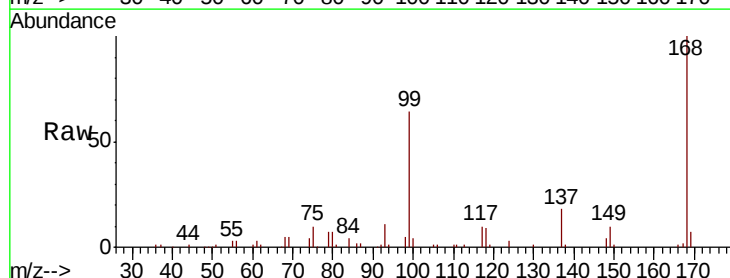
Tgt Ion: 75 Resp: 8063

Ion Ratio Lower Upper

75 100

110 7.1 15.5 46.5#

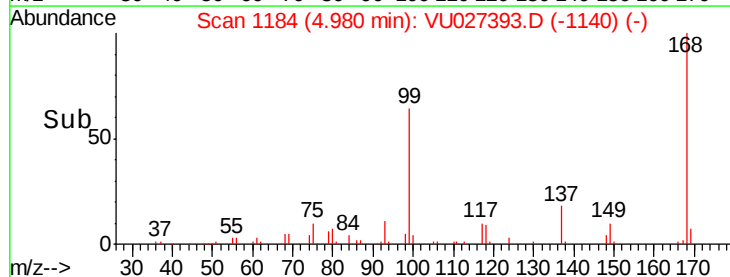
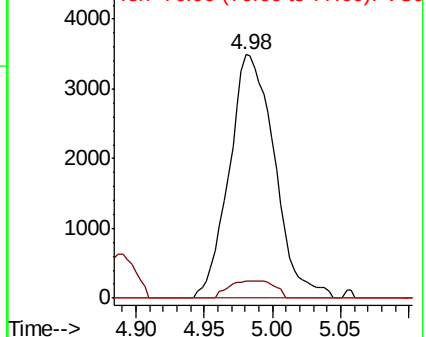
77 0.0 25.4 38.0#

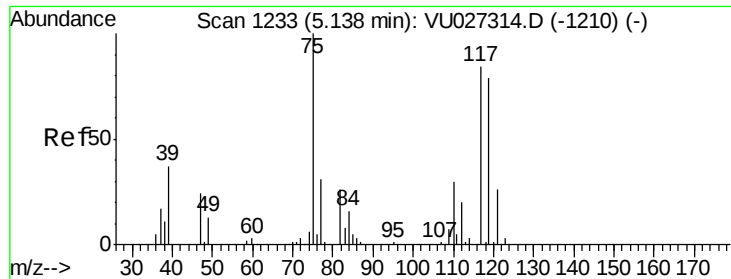


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0

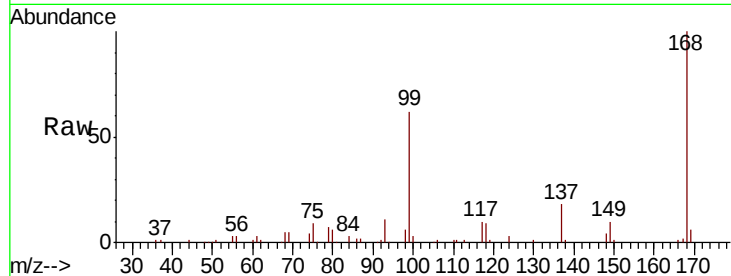




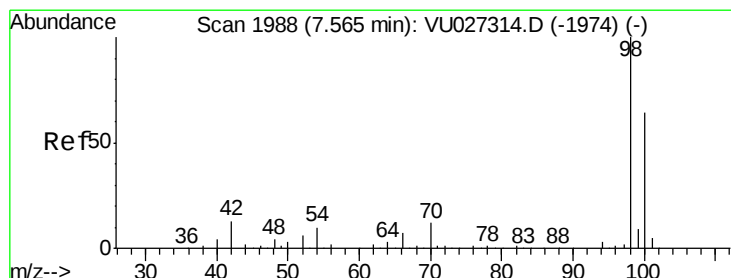
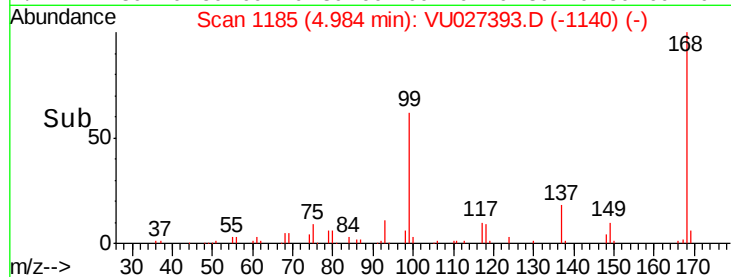
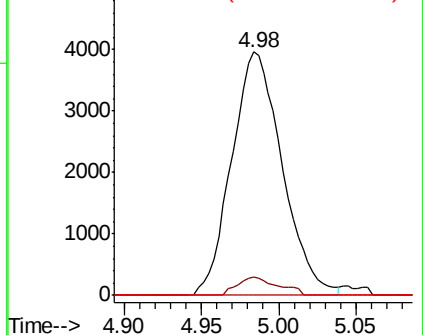
#38
Carbon Tetrachloride
Concen: 6.063 ug/l
RT: 4.98 min Scan# 1185
Delta R.T. -0.15 min
Lab File: VU027393.D
Acq: 04 Oct 2018 09:14

Instrument :
MSVOA_U
ClientSampleId :
VU1004WBL02

Tgt Ion:117 Resp: 9011
Ion Ratio Lower Upper
117 100
119 7.3 74.5 111.7#
121 0.0 24.6 37.0#

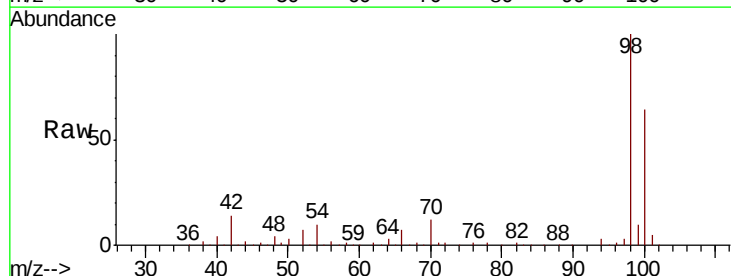


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

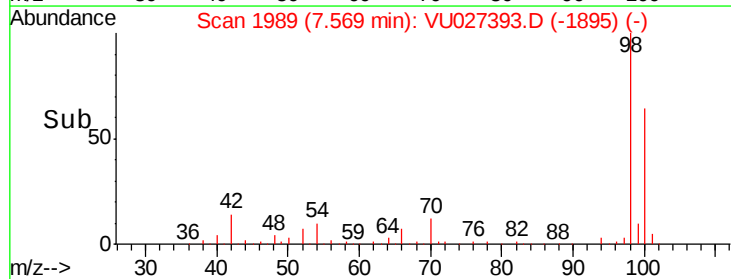
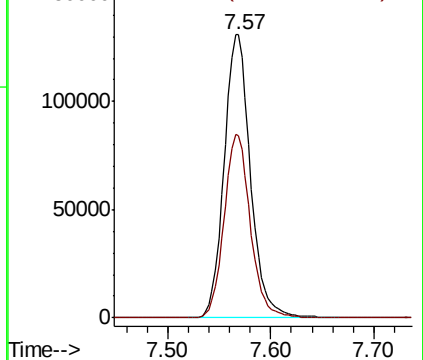


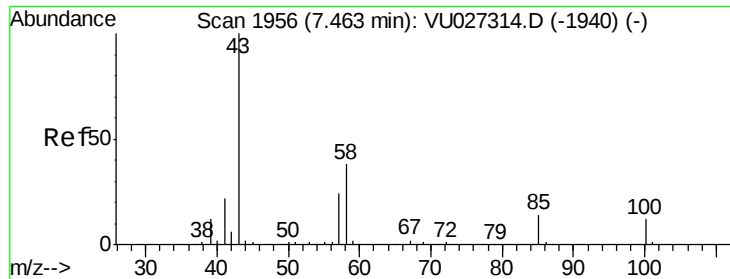
#50
Toluene-d8
Concen: 60.059 ug/l
RT: 7.57 min Scan# 1989
Delta R.T. 0.00 min
Lab File: VU027393.D
Acq: 04 Oct 2018 09:14

Tgt Ion: 98 Resp: 233442
Ion Ratio Lower Upper
98 100
100 64.6 52.1 78.1



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





#51

4-Methyl-2-Pentanone

Concen: 0.320 ug/l

RT: 7.46 min Scan# 1956

Delta R.T. 0.00 min

Lab File: VU027393.D

Acq: 04 Oct 2018 09:14

Instrument :

MSVOA_U

ClientSampleId :

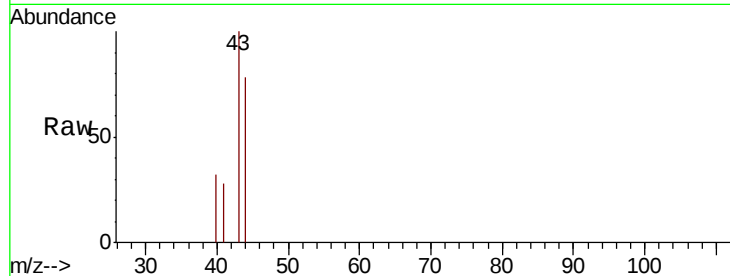
VU1004WBL02

Tgt Ion: 43 Resp: 687

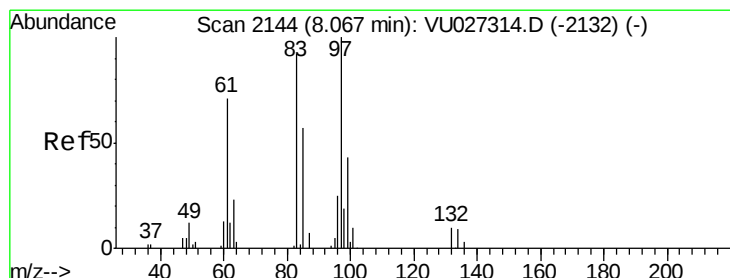
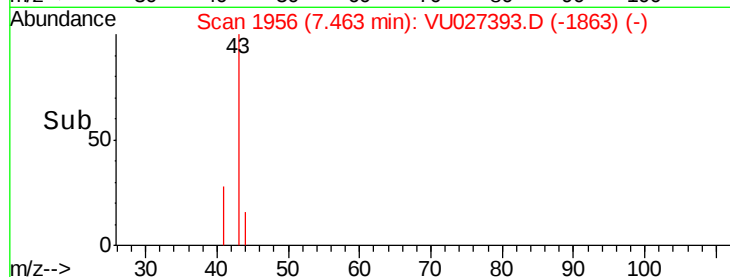
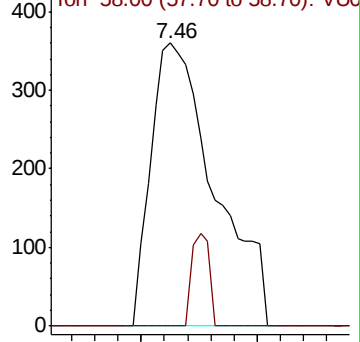
Ion Ratio Lower Upper

43 100

58 0.0 29.8 44.8#



Abundance Ion 43.00 (42.70 to 43.70): VU027314.D (-1940) (-)



#55

1,1,2-Trichloroethane

Concen: 0.353 ug/l

RT: 8.19 min Scan# 2182

Delta R.T. 0.12 min

Lab File: VU027393.D

Acq: 04 Oct 2018 09:14

Tgt Ion: 97 Resp: 397

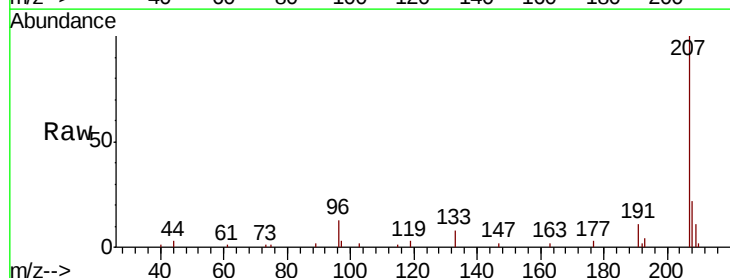
Ion Ratio Lower Upper

97 100

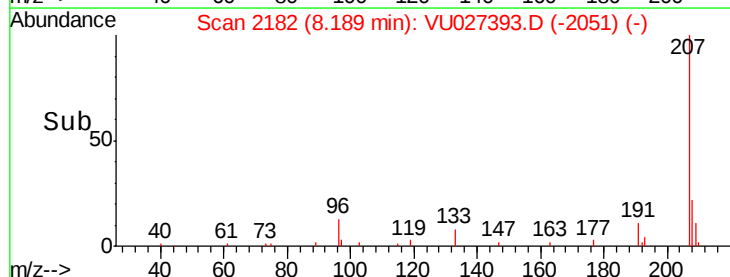
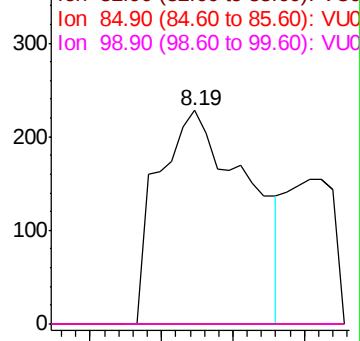
83 0.0 73.0 109.6#

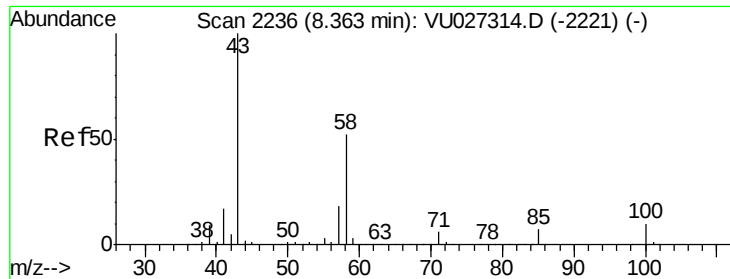
85 0.0 47.3 70.9#

99 0.0 49.7 74.5#



Abundance Ion 96.90 (96.60 to 97.60): VU027314.D (-2132) (-)

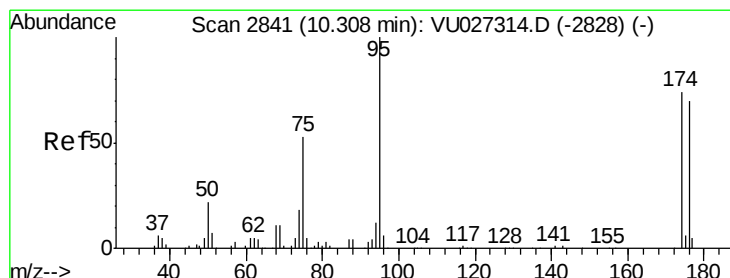
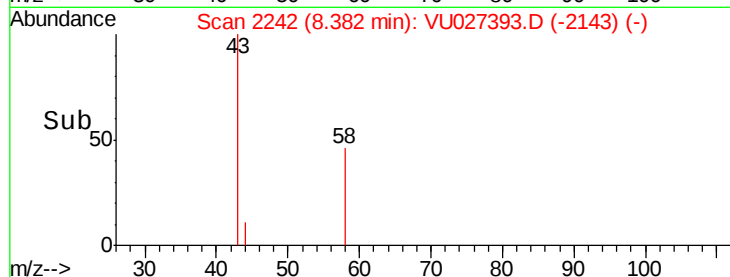
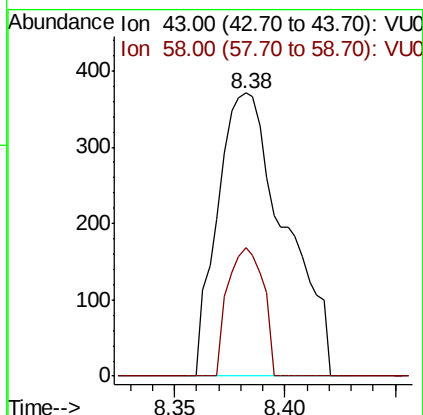
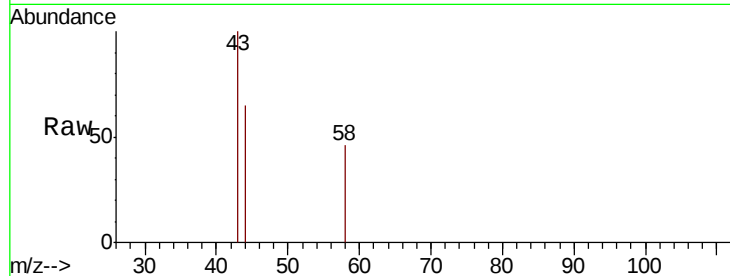




#59
 2-Hexanone
 Concen: 0.471 ug/l
 RT: 8.38 min Scan# 2242
 Delta R.T. 0.02 min
 Lab File: VU027393.D
 Acq: 04 Oct 2018 09:14

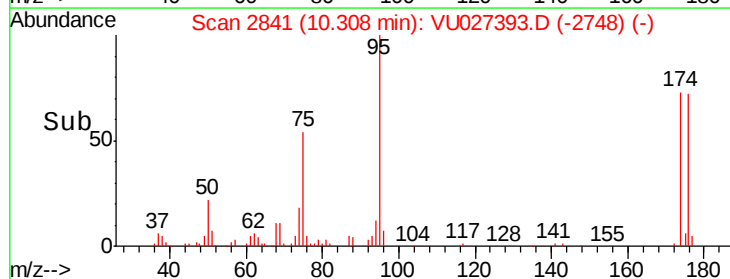
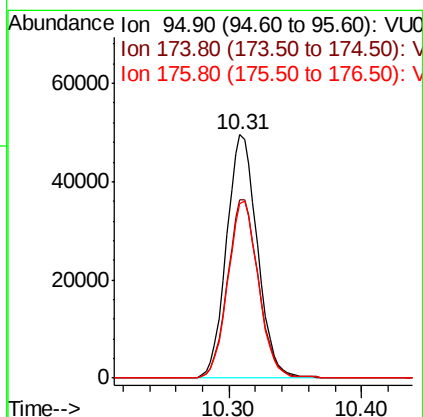
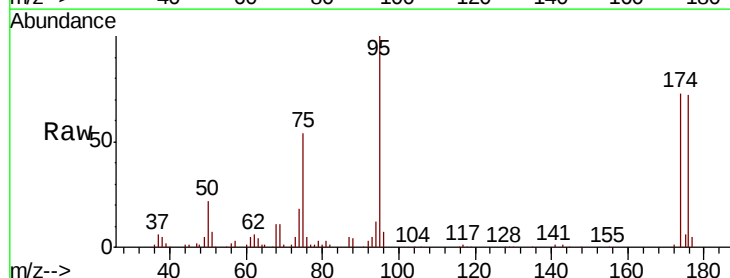
Instrument :
 MSVOA_U
 ClientSampleId :
 VU1004WBL02

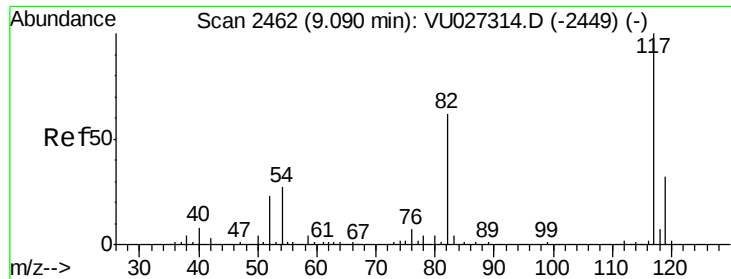
Tgt Ion: 43 Resp: 784
 Ion Ratio Lower Upper
 43 100
 58 23.9 26.1 78.3#



#62
 4-Bromofluorobenzene
 Concen: 55.543 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. 0.00 min
 Lab File: VU027393.D
 Acq: 04 Oct 2018 09:14

Tgt Ion: 95 Resp: 80232
 Ion Ratio Lower Upper
 95 100
 174 73.5 0.0 147.8
 176 71.7 0.0 140.8

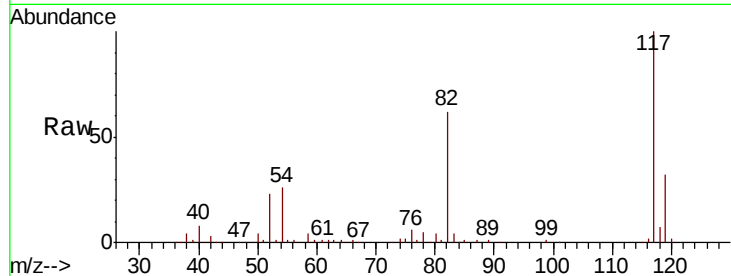




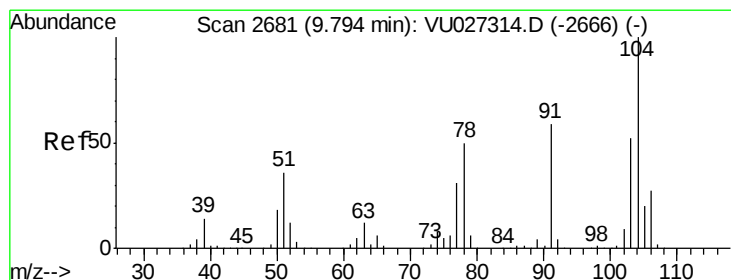
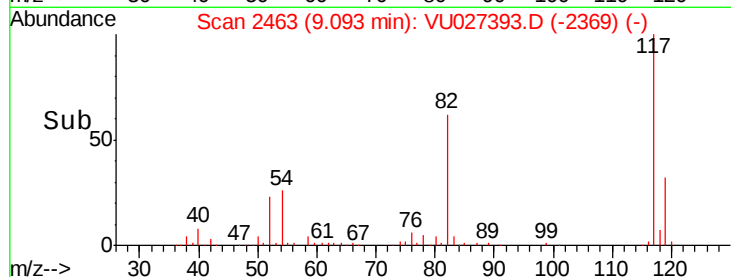
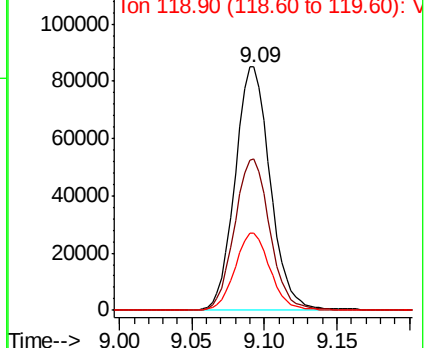
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2463
Delta R.T. 0.00 min
Lab File: VU027393.D
Acq: 04 Oct 2018 09:14

Instrument :
MSVOA_U
ClientSampleId :
VU1004WBL02

Tgt Ion:117 Resp: 143214
Ion Ratio Lower Upper
117 100
82 62.1 49.2 73.8
119 31.9 25.7 38.5

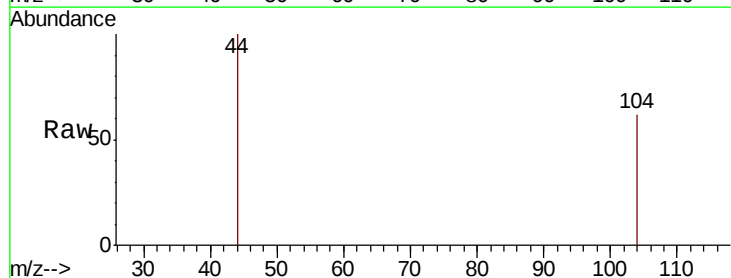


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

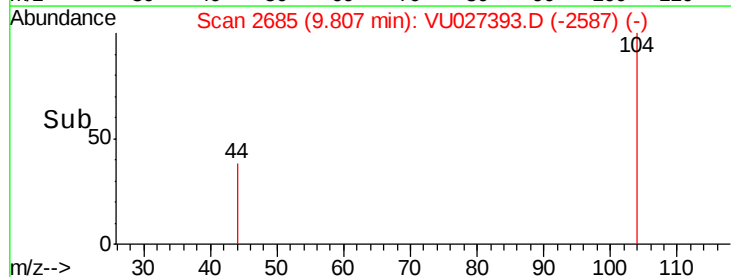
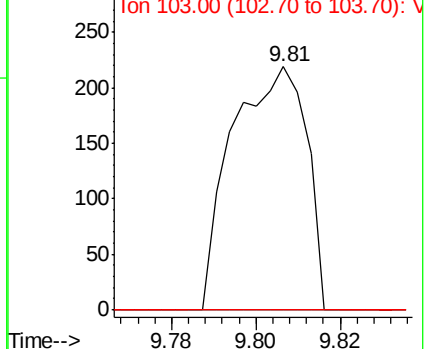


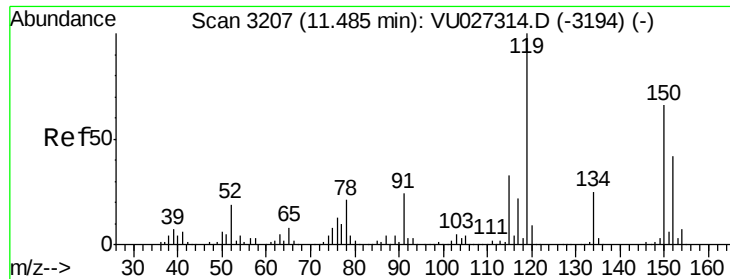
#70
Styrene
Concen: 2.373 ug/l
RT: 9.81 min Scan# 2685
Delta R.T. 0.01 min
Lab File: VU027393.D
Acq: 04 Oct 2018 09:14

Tgt Ion:104 Resp: 268
Ion Ratio Lower Upper
104 100
78 0.0 42.9 64.3#
103 0.0 43.9 65.9#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0
Ion 103.00 (102.70 to 103.70): 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: VU027393.D

Acq: 04 Oct 2018 09:14

Instrument :

MSVOA_U

ClientSampleId :

VU1004WBL02

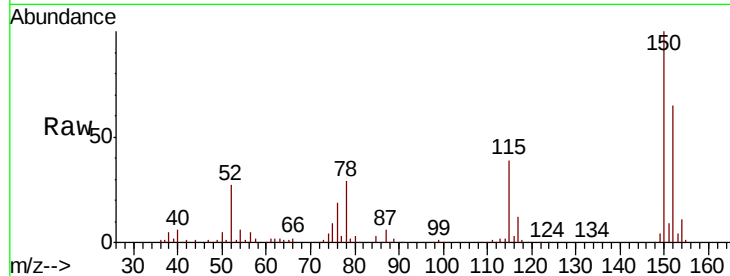
Tgt Ion: 152 Resp: 73497

Ion Ratio Lower Upper

152 100

115 60.0 43.4 130.2

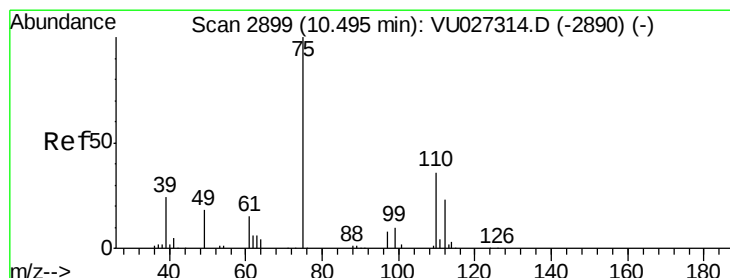
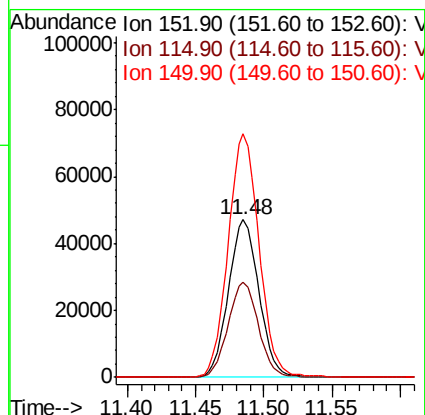
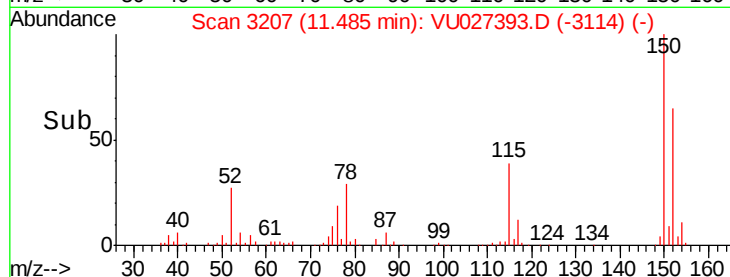
150 156.1 0.0 349.2



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: 22.615 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU027393.D

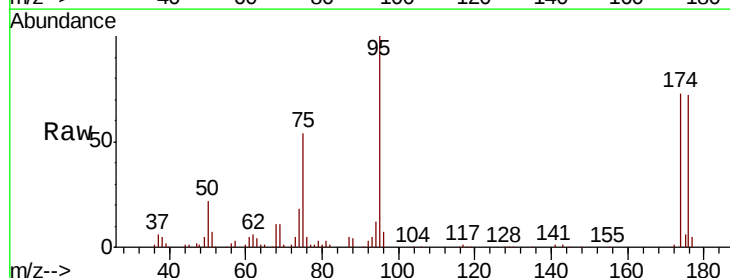
Acq: 04 Oct 2018 09:14

Tgt Ion: 75 Resp: 43087

Ion Ratio Lower Upper

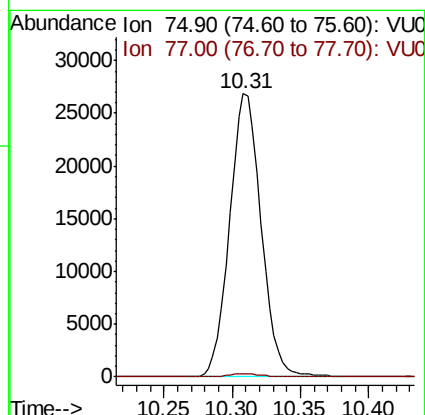
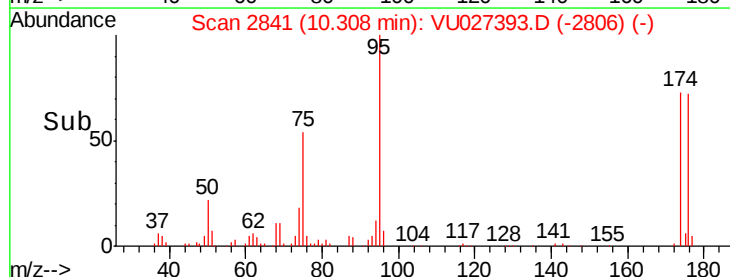
75 100

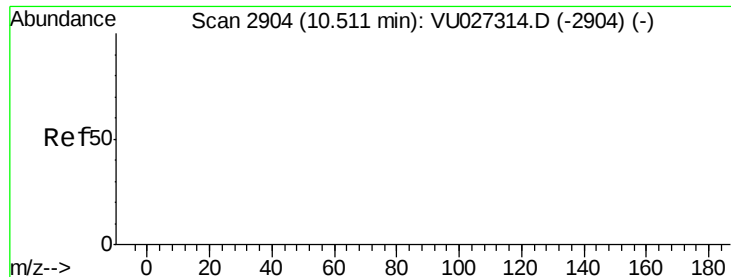
77 1.1 20.3 60.9#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

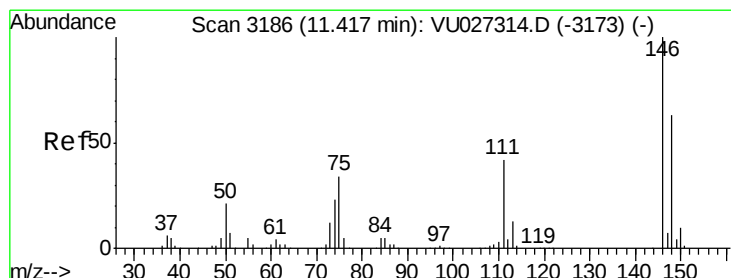
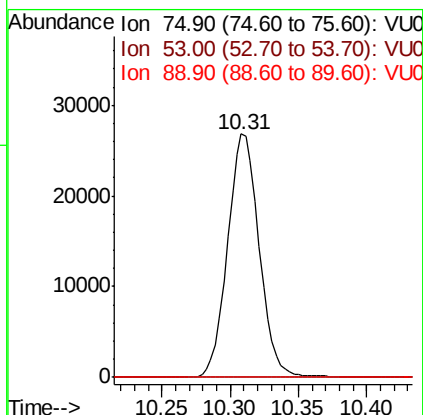
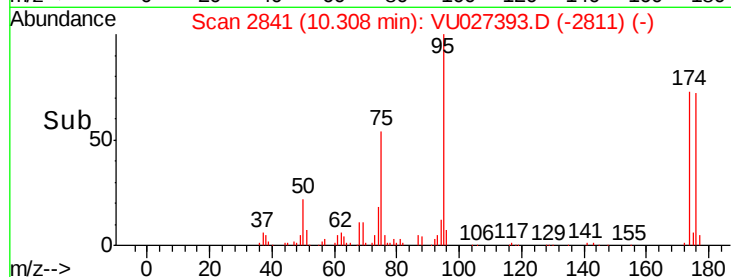
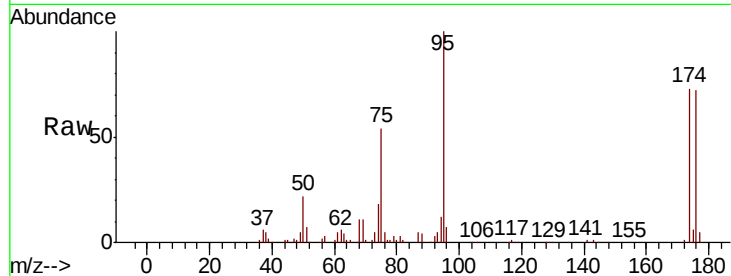




#81
trans-1,4-Dichloro-2-butene
Concen: 59.187 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.20 min
Lab File: VU027393.D
Acq: 04 Oct 2018 09:14

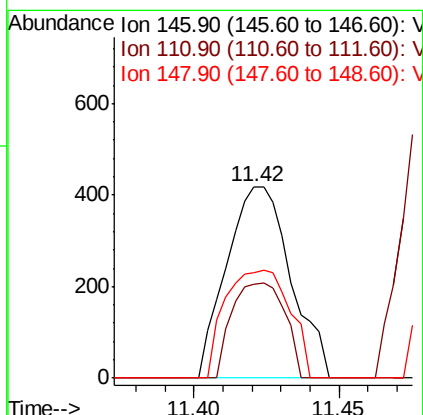
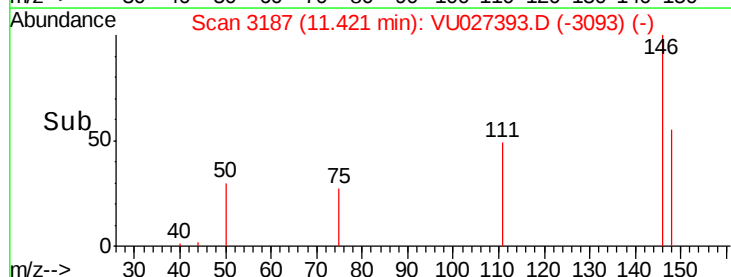
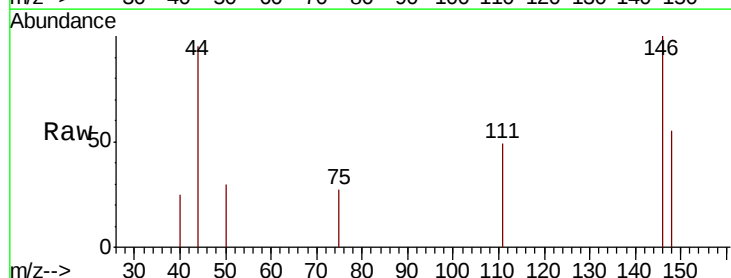
Instrument :
MSVOA_U
ClientSampleId :
VU1004WBL02

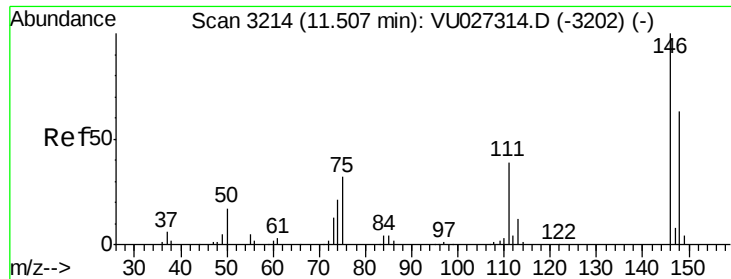
Tgt Ion: 75 Resp: 43087
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0
89 0.0 0.0 0.0



#87
1,3-Dichlorobenzene
Concen: 0.274 ug/l
RT: 11.42 min Scan# 3187
Delta R.T. 0.00 min
Lab File: VU027393.D
Acq: 04 Oct 2018 09:14

Tgt Ion: 146 Resp: 643
Ion Ratio Lower Upper
146 100
111 40.6 20.8 62.5
148 56.5 31.6 94.8

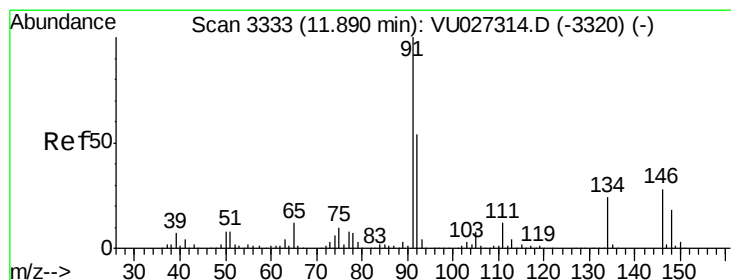
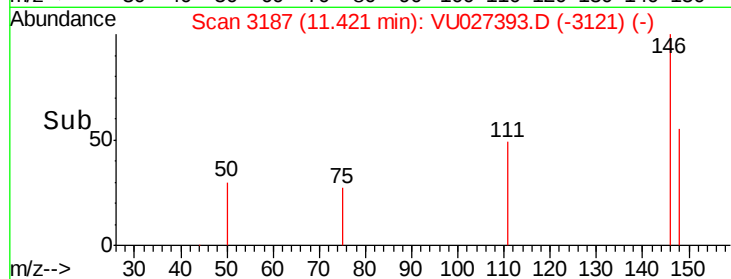
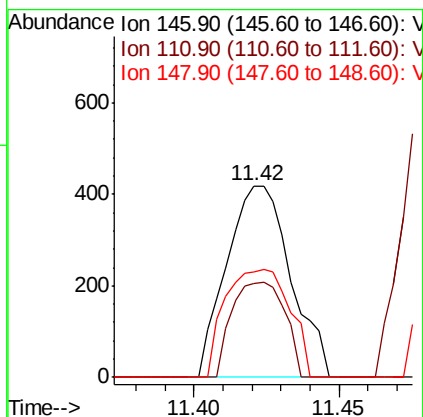
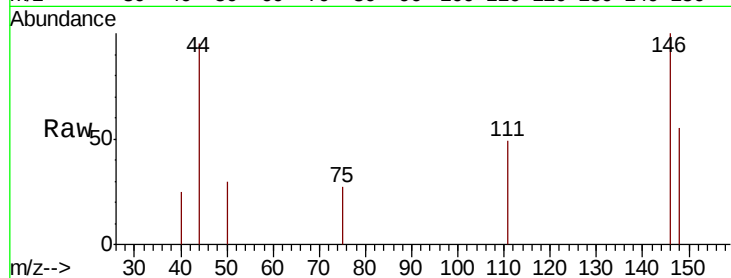




#88
 1,4-Dichlorobenzene
 Concen: 0.268 ug/l
 RT: 11.42 min Scan# 3187
 Delta R.T. -0.09 min
 Lab File: VU027393.D
 Acq: 04 Oct 2018 09:14

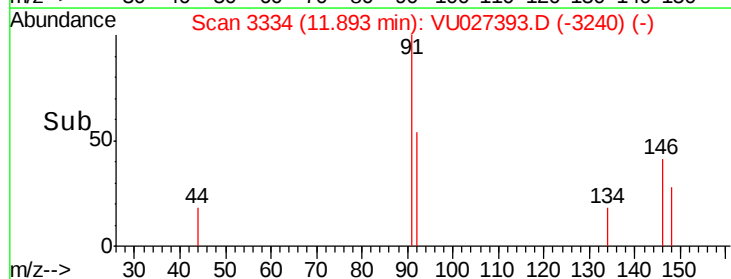
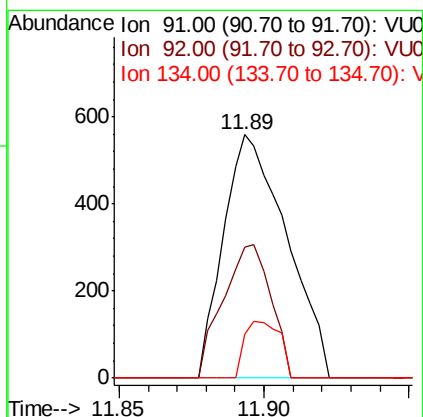
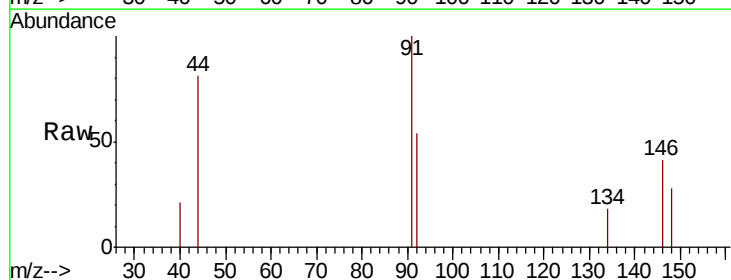
Instrument :
 MSVOA_U
 ClientSampleId :
 VU1004WBL02

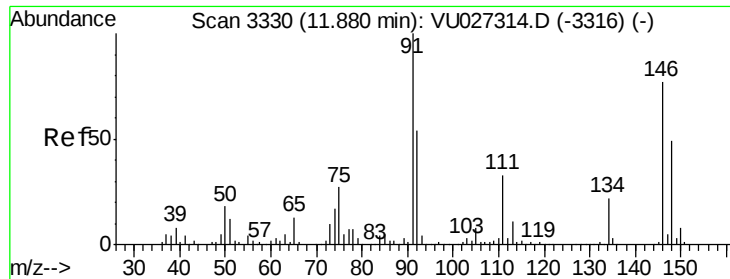
Tgt Ion: 146 Resp: 643
 Ion Ratio Lower Upper
 146 100
 111 40.6 20.4 61.2
 148 56.5 31.9 95.5



#89
 n-Butylbenzene
 Concen: 2.118 ug/l
 RT: 11.89 min Scan# 3334
 Delta R.T. 0.00 min
 Lab File: VU027393.D
 Acq: 04 Oct 2018 09:14

Tgt Ion: 91 Resp: 843
 Ion Ratio Lower Upper
 91 100
 92 41.9 27.0 81.0
 134 13.2 11.7 35.1

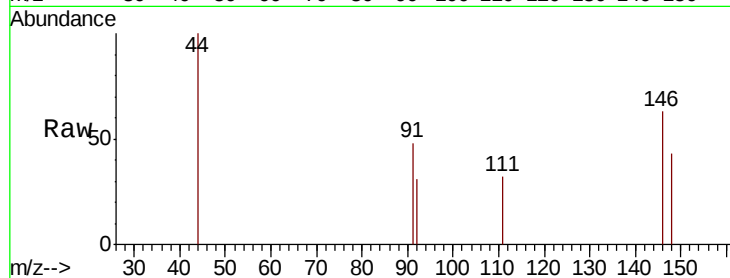




#91
 1,2-Dichlorobenzene
 Concen: 0.203 ug/l
 RT: 11.88 min Scan# 3331
 Delta R.T. 0.00 min
 Lab File: VU027393.D
 Acq: 04 Oct 2018 09:14

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1004WBL02

Tgt Ion:146 Resp: 465
 Ion Ratio Lower Upper
 146 100
 111 22.6 21.8 65.4
 148 66.2 31.9 95.5



Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

11.88

400

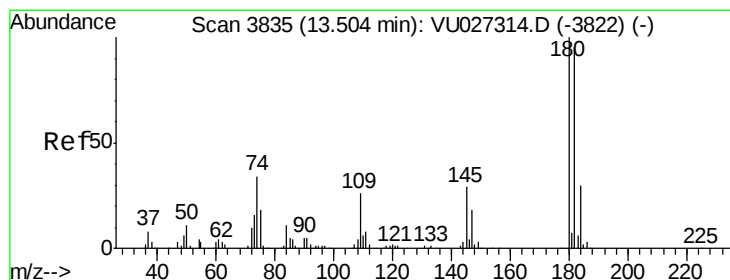
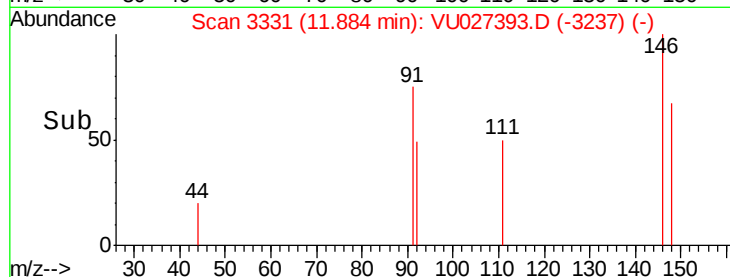
300

200

100

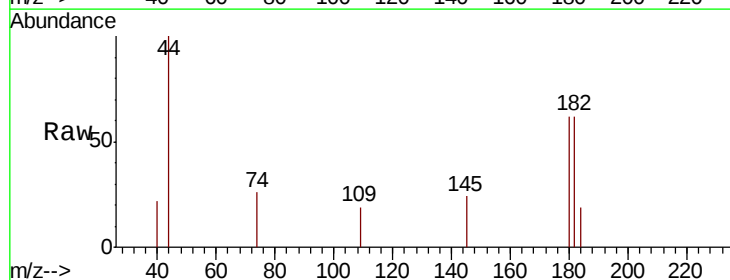
0

Time-->



#93
 1,2,4-Trichlorobenzene
 Concen: 0.414 ug/l
 RT: 13.51 min Scan# 3837
 Delta R.T. 0.01 min
 Lab File: VU027393.D
 Acq: 04 Oct 2018 09:14

Tgt Ion:180 Resp: 613
 Ion Ratio Lower Upper
 180 100
 182 97.7 47.4 142.3
 145 18.9 14.6 44.0



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

500

400

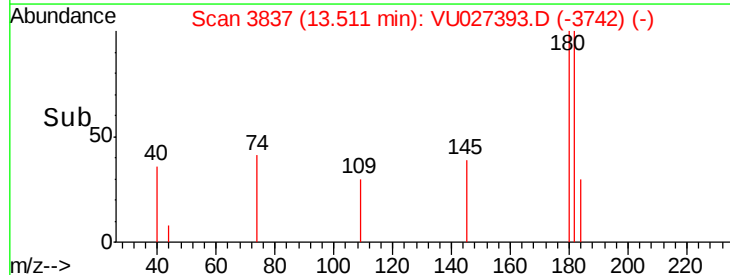
300

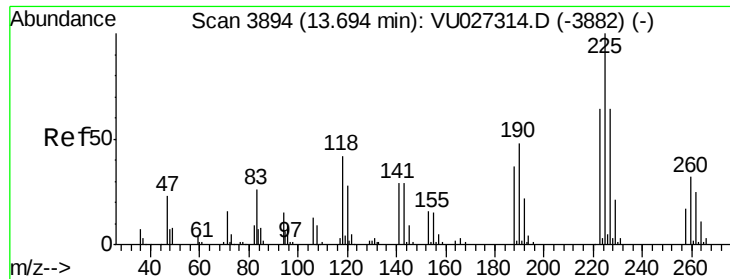
200

100

0

Time-->





#94

Hexachlorobutadiene

Concen: 0.298 ug/l

RT: 13.69 min Scan# 3894

Delta R.T. 0.00 min

Lab File: VU027393.D

Acq: 04 Oct 2018 09:14

Instrument :

MSVOA_U

ClientSampleId :

VU1004WBL02

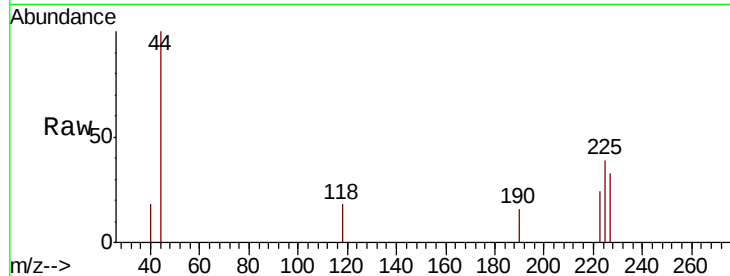
Tgt Ion:225 Resp: 223

Ion Ratio Lower Upper

225 100

223 56.5 31.8 95.3

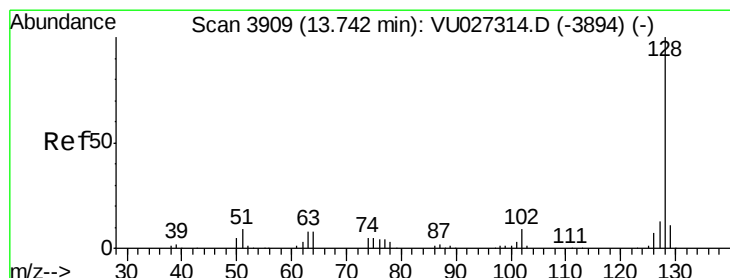
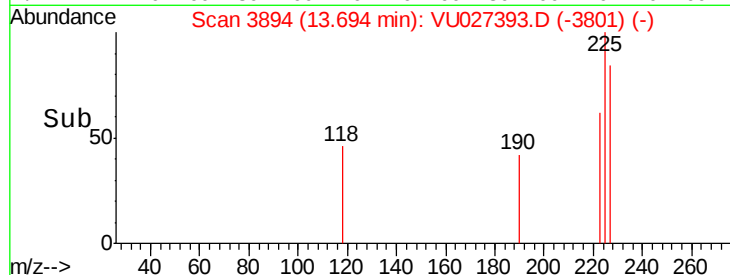
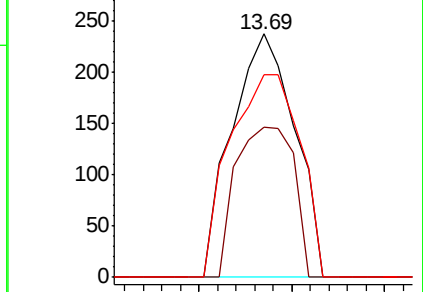
227 92.8 31.9 95.7



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 1.972 ug/l

RT: 13.75 min Scan# 3911

Delta R.T. 0.01 min

Lab File: VU027393.D

Acq: 04 Oct 2018 09:14

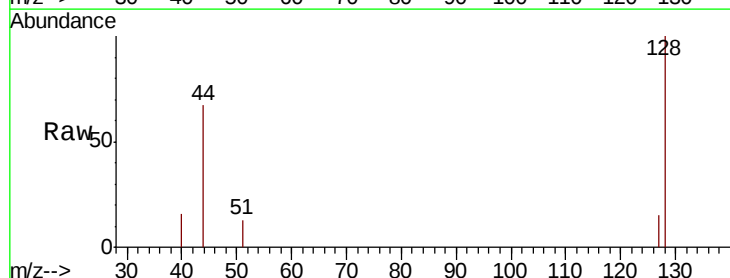
Tgt Ion:128 Resp: 1796

Ion Ratio Lower Upper

128 100

127 5.6 10.5 15.7#

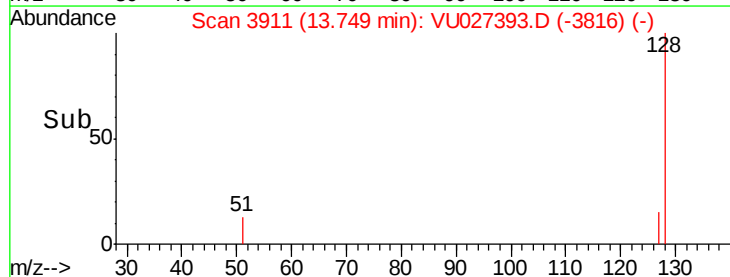
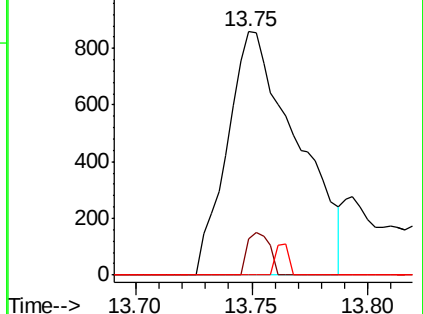
129 2.3 8.6 12.8#

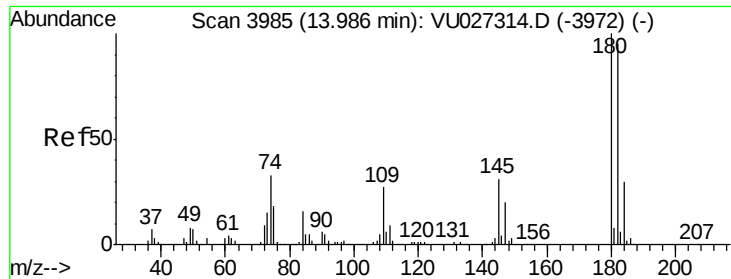


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.396 ug/l
 RT: 13.99 min Scan# 3986
 Delta R.T. 0.00 min
 Lab File: VU027393.D
 Acq: 04 Oct 2018 09:14

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1004WBL02

Tgt Ion:180 Resp: 611
 Ion Ratio Lower Upper
 180 100
 182 99.2 47.4 142.2
 145 13.4 15.9 47.7#

