

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092818\
 Data File : VU027232.D
 Acq On : 27 Sep 2018 18:17
 Operator : MD/SY
 Sample : J5072-01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MH-9

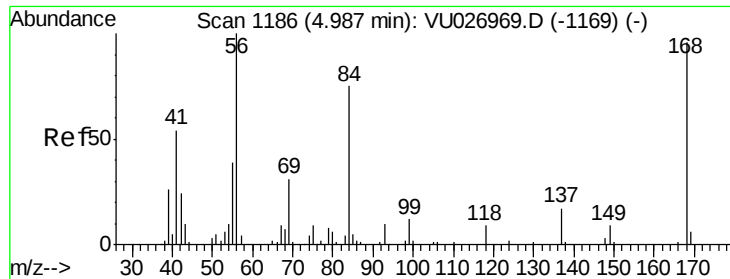
Quant Time: Sep 28 03:40:05 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U092218W.M
 Quant Title : SW846 8260
 QLast Update : Sat Sep 22 01:31:57 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	92143	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	163295	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	149348	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	65992	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	97825	52.75	ug/l	0.00
Spiked Amount			Recovery	=	105.50%	
35) Dibromofluoromethane	4.88	113	68659	48.51	ug/l	0.00
Spiked Amount			Recovery	=	97.02%	
50) Toluene-d8	7.57	98	251098	46.55	ug/l	0.00
Spiked Amount			Recovery	=	93.10%	
62) 4-Bromofluorobenzene	10.31	95	78418	42.37	ug/l	0.00
Spiked Amount			Recovery	=	84.74%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.83	59	638	1.501	ug/l #	72
14) Allyl chloride	2.44	41	651	0.252	ug/l #	78
16) Acetone	2.32	43	1606	Below Cal	#	83
17) Carbon Disulfide	2.48	76	1025	0.247	ug/l #	75
31) Cyclohexane	4.99	56	2568	0.358	ug/l #	1
36) 1,1-Dichloropropene	4.99	75	8514	3.907	ug/l #	51
38) Carbon Tetrachloride	4.99	117	9747	4.700	ug/l #	17
59) 2-Hexanone	8.38	43	782	0.345	ug/l #	58
68) m/p-Xylenes	9.38	106	130	1.549	ug/l #	1
73) Isopropylbenzene	10.17	105	4580	0.912	ug/l	97
76) 1,2,3-Trichloropropane	10.31	75	42454	21.176	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	42454	67.767	ug/l #	100
86) p-Isopropyltoluene	11.48	119	371	1.005	ug/l #	51
88) 1,4-Dichlorobenzene	11.51	146	658	0.264	ug/l #	74
89) n-Butylbenzene	11.89	91	780	2.556	ug/l #	79
93) 1,2,4-Trichlorobenzene	13.51	180	378	0.271	ug/l #	76
94) Hexachlorobutadiene	13.69	225	268	0.362	ug/l #	48
95) Naphthalene	13.76	128	1969	2.037	ug/l #	78
96) 1,2,3-Trichlorobenzene	13.99	180	610	0.407	ug/l #	88

(#) = 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: VU027232.D

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ClientSampleId :

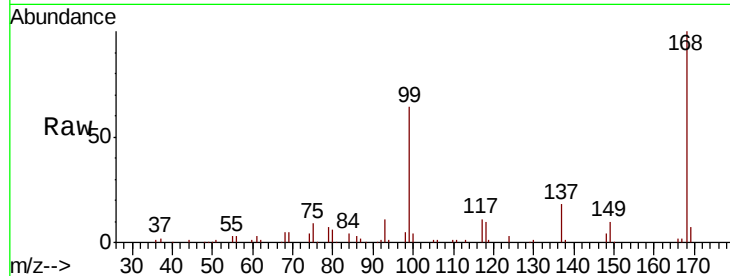
MH-9

Tot Ion:168 Resp: 92143

Ion Ratio Lower Upper

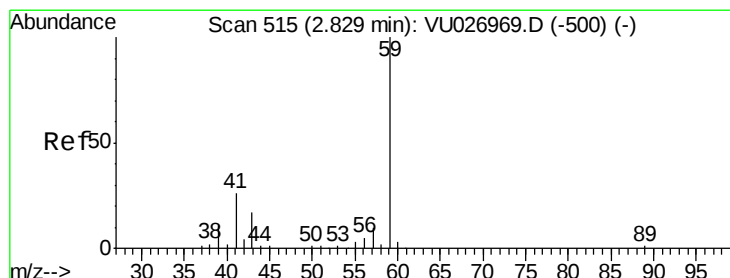
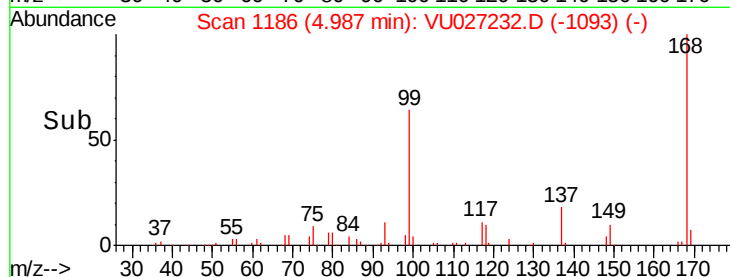
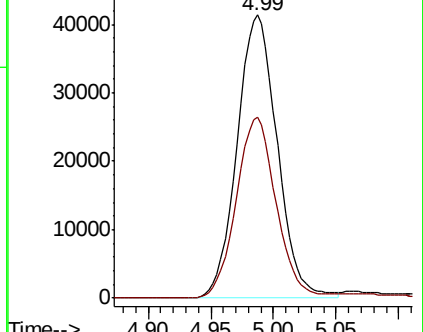
168 100

99 63.8 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): VU026969.D (-1169) (-)

Ion 98.90 (98.60 to 99.60): VU026969.D (-1169) (-)



#11

Tert butyl alcohol

Concen: 1.501 ug/l

RT: 2.83 min Scan# 514

Delta R.T. -0.00 min

Lab File: VU027232.D

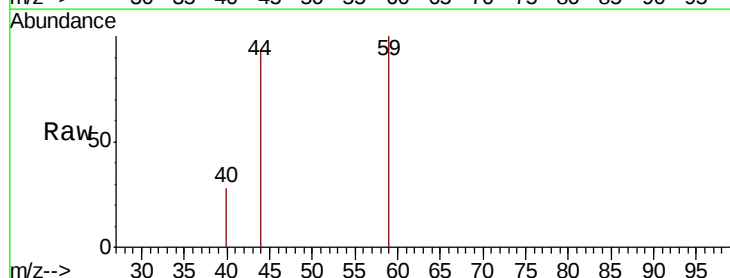
Acq: 27 Sep 2018 18:17

Tgt Ion: 59 Resp: 638

Ion Ratio Lower Upper

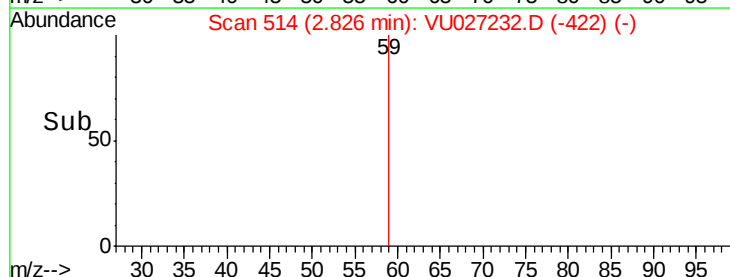
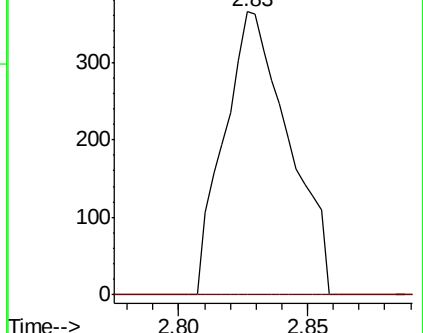
59 100

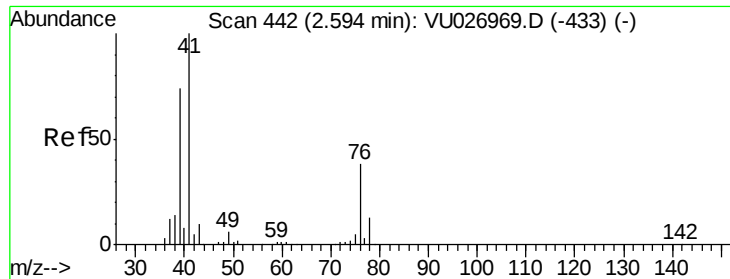
57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VU026969.D (-500) (-)

Ion 57.00 (56.70 to 57.70): VU026969.D (-500) (-)





#14

Allvl chloride

Concen: 0.252 ug/l

RT: 2.44 min Scan# 394

Delta R.T. -0.15 min

Lab File: VU027232.D

Acq: 27 Sep 2018 18:17

Instrument :

MSVOA_U

ClientSampleId :

MH-9

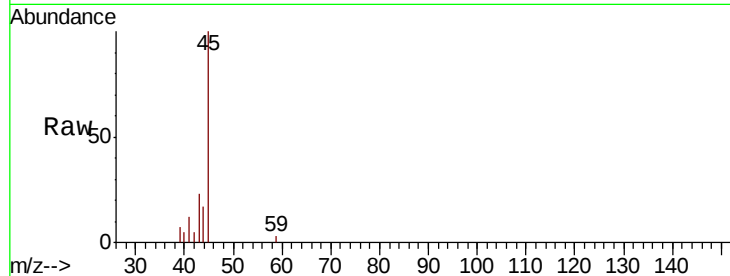
Tot Ion: 41 Resp: 651

Ion Ratio Lower Upper

41 100

39 65.4 55.7 83.5

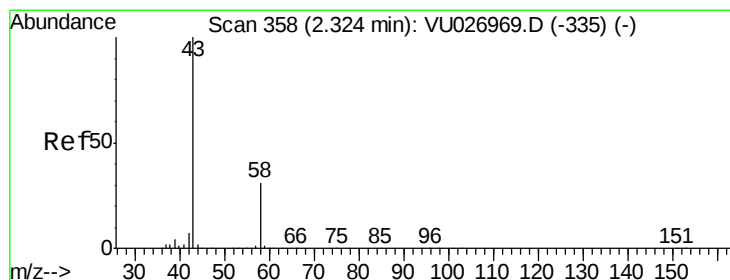
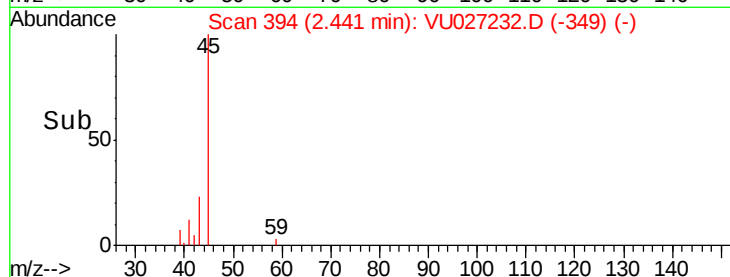
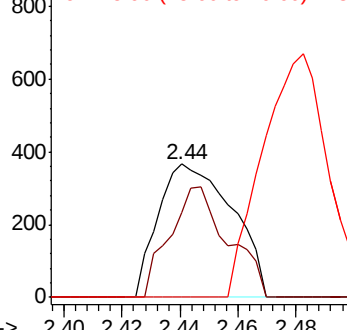
76 0.0 26.5 39.7#



Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

Ion 75.90 (75.60 to 76.60): VU0



#16

Acetone

Concen: Below Cal

RT: 2.32 min Scan# 358

Delta R.T. 0.00 min

Lab File: VU027232.D

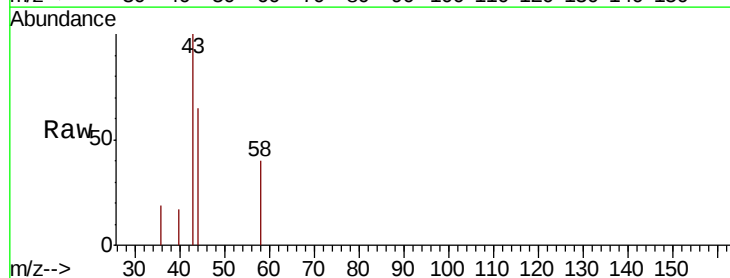
Acq: 27 Sep 2018 18:17

Tgt Ion: 43 Resp: 1606

Ion Ratio Lower Upper

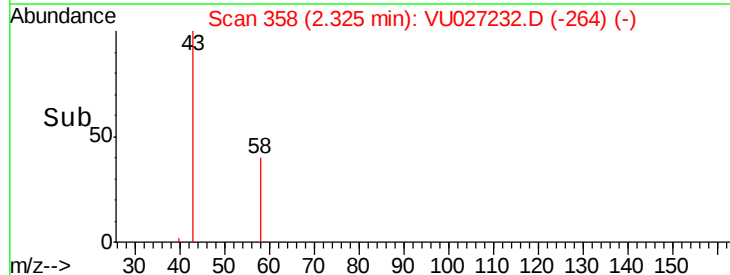
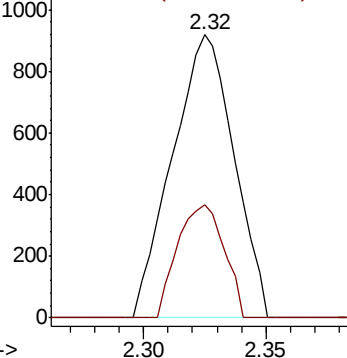
43 100

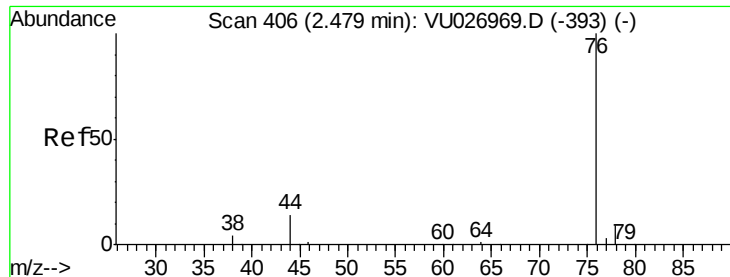
58 39.8 24.6 36.8#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0





#17

Carbon Disulfide

Concen: 0.247 ug/l

RT: 2.48 min Scan# 407

Delta R.T. 0.00 min

Lab File: VU027232.D

Acq: 27 Sep 2018 18:17

Instrument :

MSVOA_U

ClientSampleId :

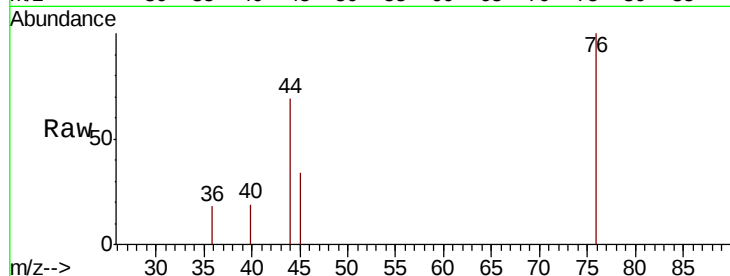
MH-9

Tot Ion: 76 Resp: 1025

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0

2.48

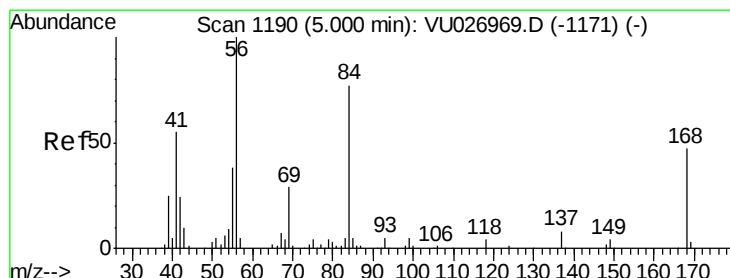
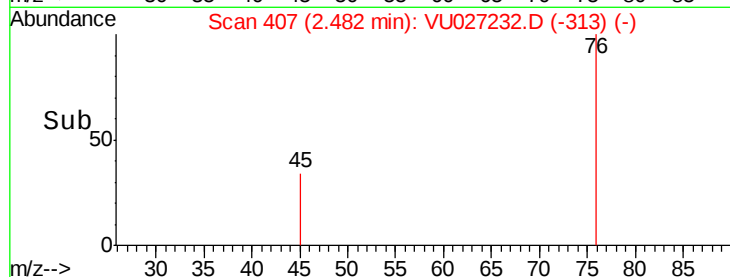
600

400

200

0

Time-->



#31

Cyclohexane

Concen: 0.358 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.01 min

Lab File: VU027232.D

Acq: 27 Sep 2018 18:17

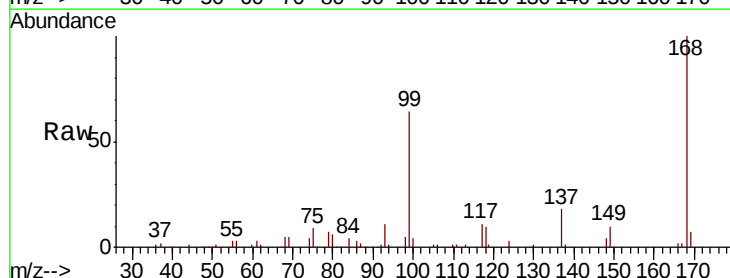
Tgt Ion: 56 Resp: 2568

Ion Ratio Lower Upper

56 100

69 156.7 23.0 34.4#

84 127.9 61.4 92.2#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0

2500

2000

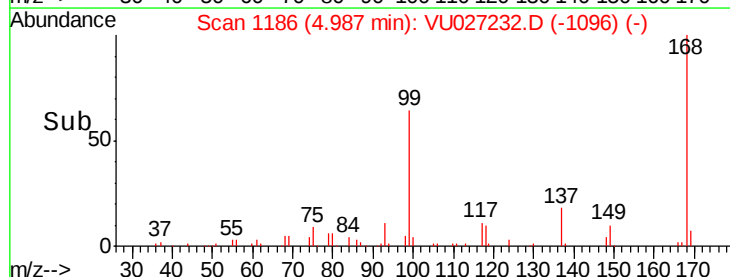
1500

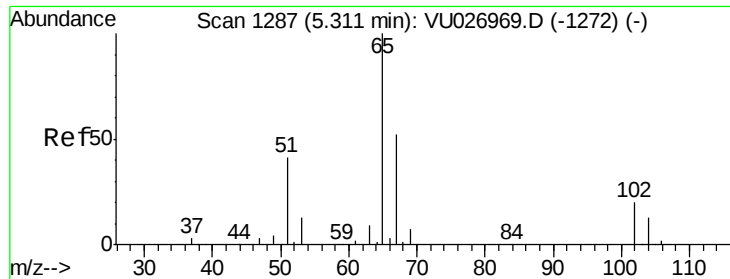
1000

500

0

Time-->





#33

1,2-Dichloroethane-d4

Concen: 52.749 ug/l

RT: 5.31 min Scan# 1287

Delta R.T. 0.00 min

Lab File: VU027232.D

Acq: 27 Sep 2018 18:17

Instrument :

MSVOA_U

ClientSampled :

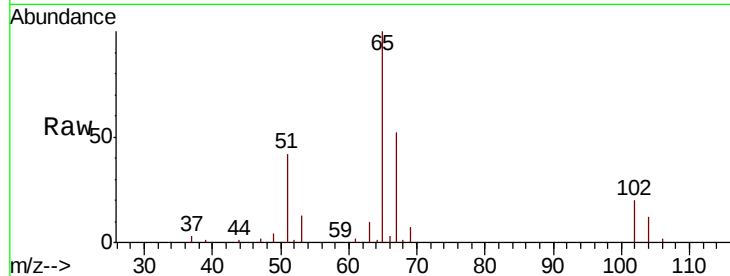
MH-9

Tot Ion: 65 Resp: 97825

Ion Ratio Lower Upper

65 100

67 52.2 0.0 105.6

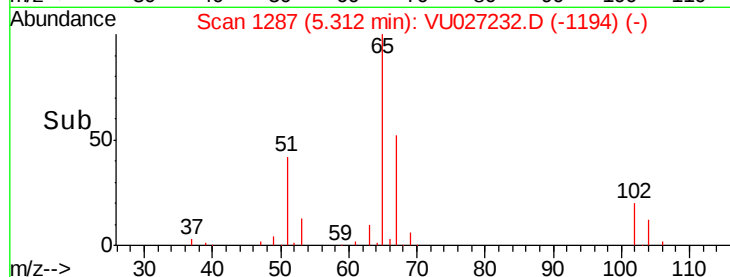


Abundance Ion 64.90 (64.60 to 65.60): VU026969.D (-1272) (-)

Ion 66.90 (66.60 to 67.60): VU026969.D (-1272) (-)

5.31

Time-->

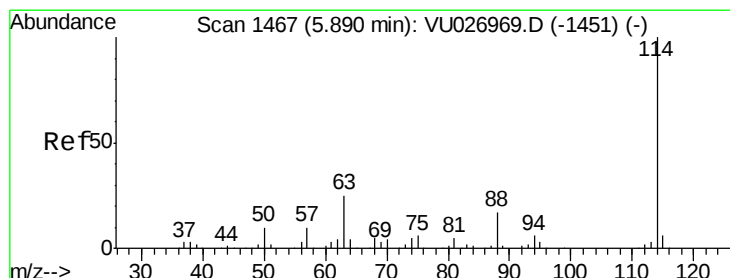


Abundance Ion 64.90 (64.60 to 65.60): VU027232.D (-1194) (-)

Ion 66.90 (66.60 to 67.60): VU027232.D (-1194) (-)

5.31

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.89 min Scan# 1467

Delta R.T. 0.00 min

Lab File: VU027232.D

Acq: 27 Sep 2018 18:17

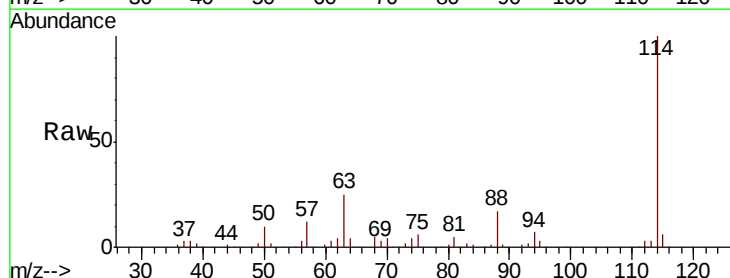
Tgt Ion: 114 Resp: 163295

Ion Ratio Lower Upper

114 100

63 25.0 0.0 49.2

88 17.0 0.0 33.8



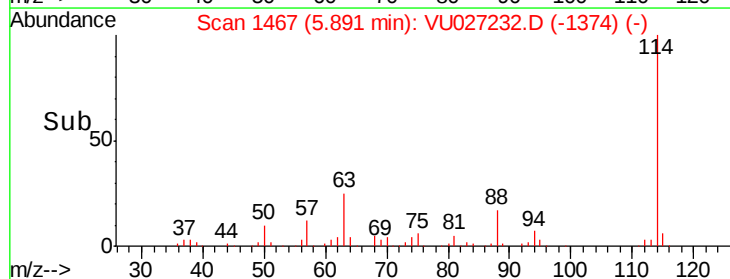
Abundance Ion 113.90 (113.60 to 114.60): VU026969.D (-1451) (-)

Ion 63.00 (62.70 to 63.70): VU026969.D (-1451) (-)

Ion 87.90 (87.60 to 88.60): VU026969.D (-1451) (-)

5.89

Time-->



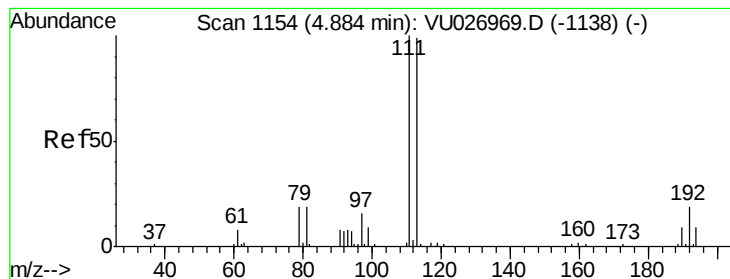
Abundance Ion 113.90 (113.60 to 114.60): VU027232.D (-1374) (-)

Ion 63.00 (62.70 to 63.70): VU027232.D (-1374) (-)

Ion 87.90 (87.60 to 88.60): VU027232.D (-1374) (-)

5.89

Time-->



#35

Dibromofluoromethane

Concen: 48.507 ug/l

RT: 4.88 min Scan# 1154

Delta R.T. 0.00 min

Lab File: VU027232.D

Acq: 27 Sep 2018 18:17

Instrument :

MSVOA_U

ClientSampleId :

MH-9

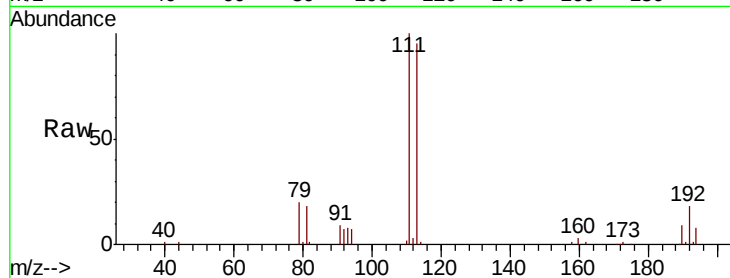
Tot Ion:113 Resp: 68659

Ion Ratio Lower Upper

113 100

111 102.5 82.2 123.4

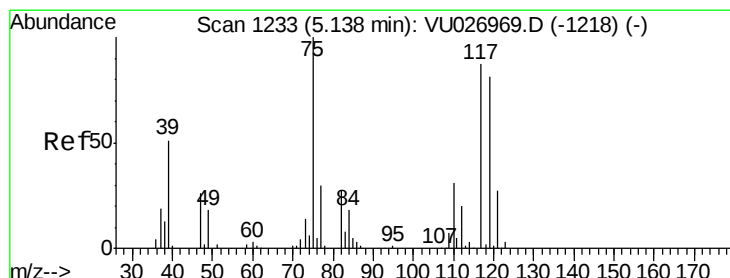
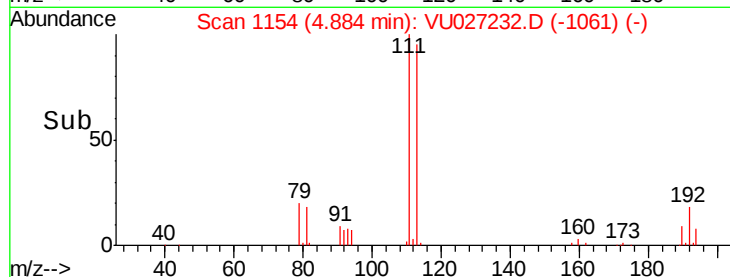
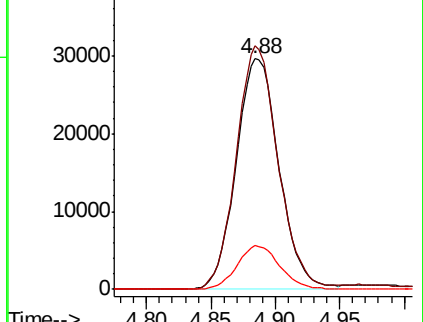
192 18.7 15.2 22.8



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: 3.907 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.15 min

Lab File: VU027232.D

Acq: 27 Sep 2018 18:17

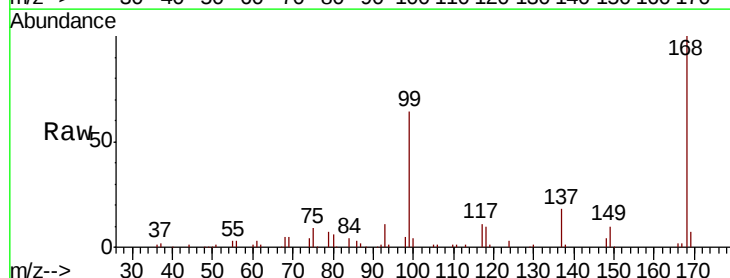
Tgt Ion: 75 Resp: 8514

Ion Ratio Lower Upper

75 100

110 8.2 16.1 48.2#

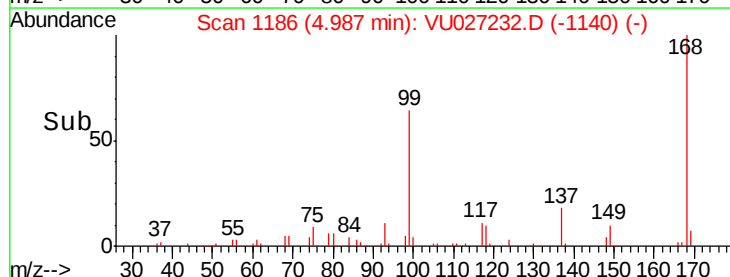
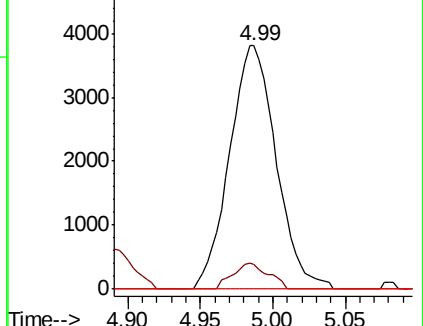
77 0.0 24.6 36.8#

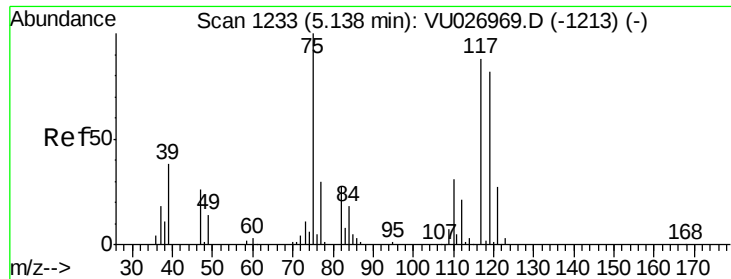


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0

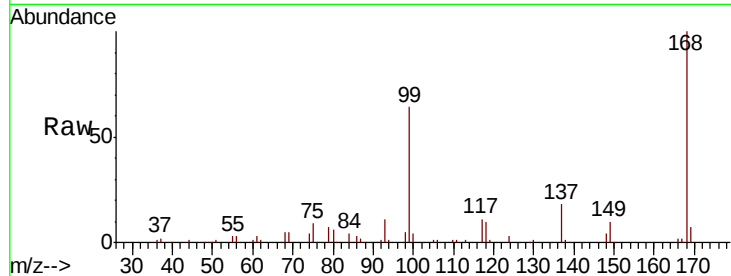




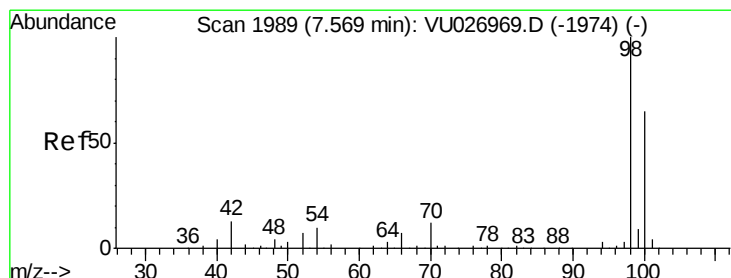
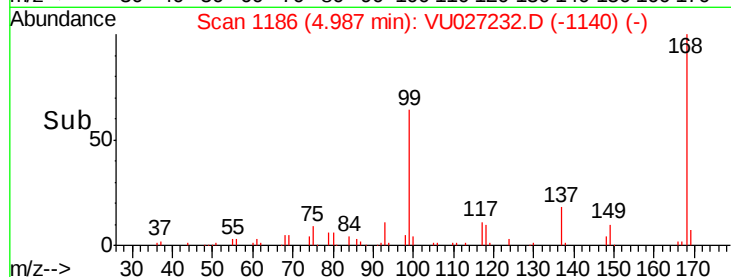
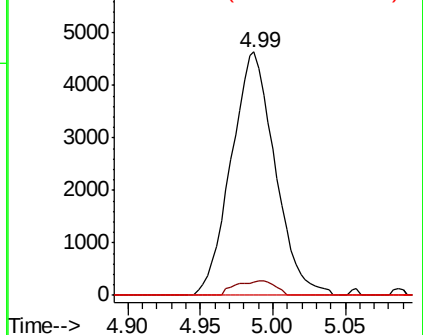
#38
Carbon Tetrachloride
Concen: 4.700 ug/l
RT: 4.99 min Scan# 1186
Delta R.T. -0.15 min
Lab File: VU027232.D
Acq: 27 Sep 2018 18:17

Instrument :
MSVOA_U
ClientSampleId :
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Tot Ion:117 Resp: 9747
Ion Ratio Lower Upper
117 100
119 5.3 74.4 111.6#
121 0.0 24.2 36.4#

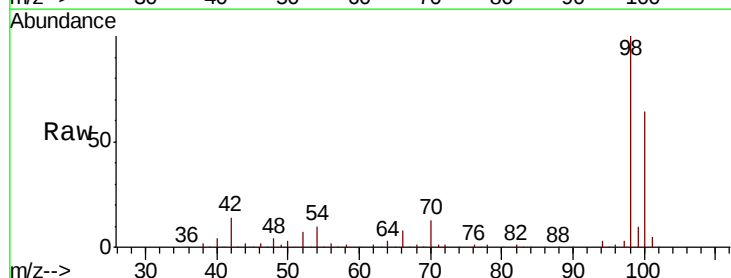


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

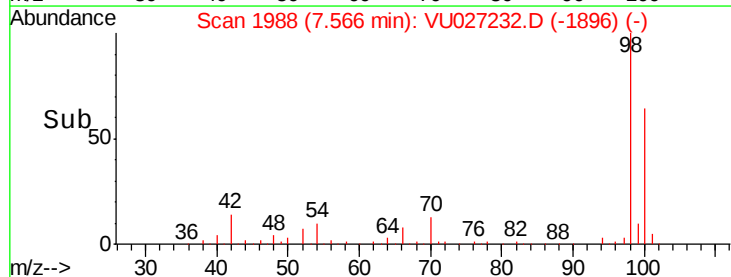
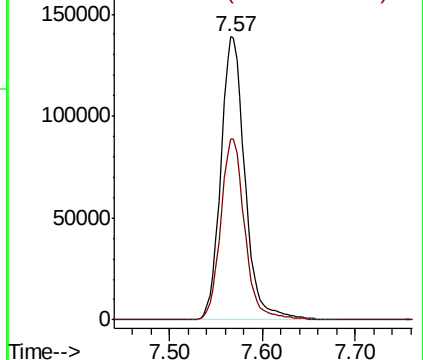


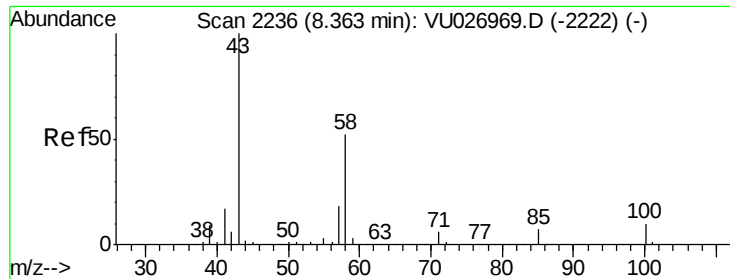
#50
Toluene-d8
Concen: 46.549 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VU027232.D
Acq: 27 Sep 2018 18:17

Tgt Ion: 98 Resp: 251098
Ion Ratio Lower Upper
98 100
100 63.9 52.1 78.1



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

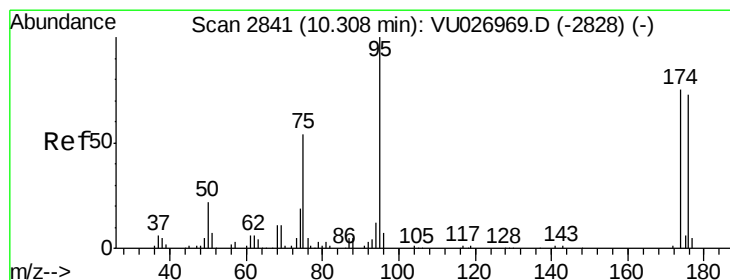
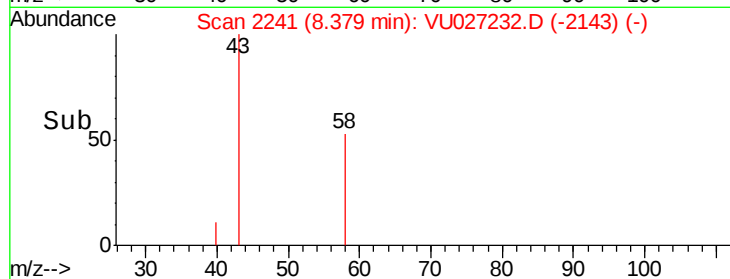
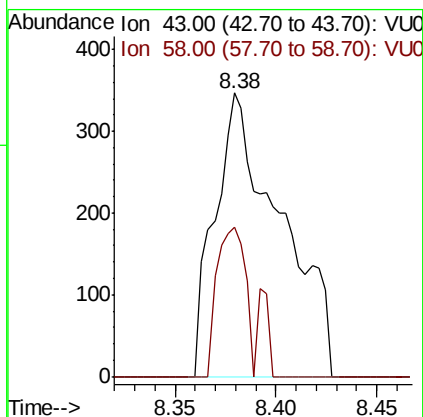
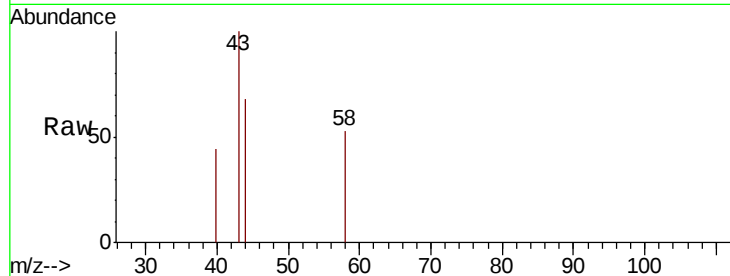




#59
2-Hexanone
Concen: 0.345 ug/l
RT: 8.38 min Scan# 2241
Delta R.T. 0.02 min
Lab File: VU027232.D
Acq: 27 Sep 2018 18:17

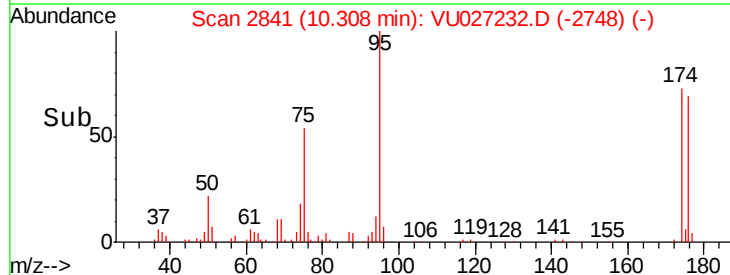
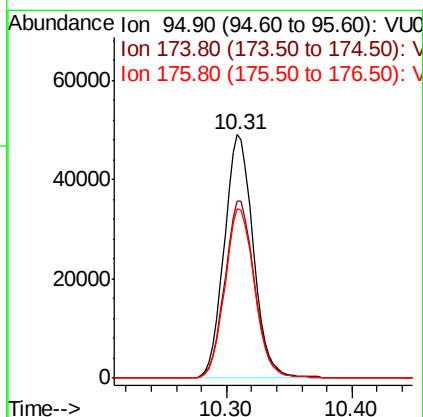
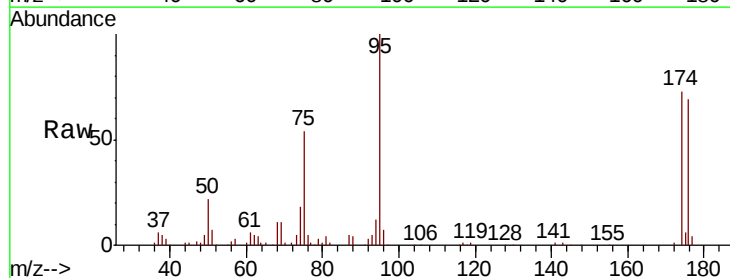
Instrument :
MSVOA_U
ClientSampleId :
MH-9

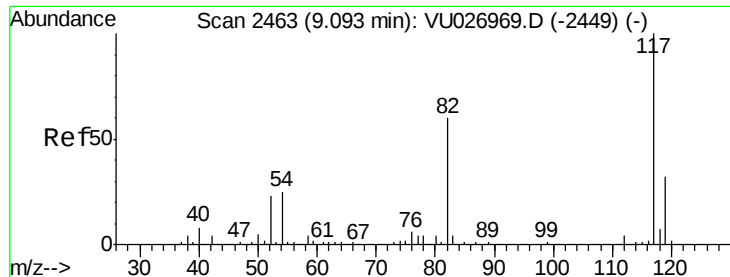
Tot Ion: 43 Resp: 782
Ion Ratio Lower Upper
43 100
58 22.8 26.1 78.2#



#62
4-Bromofluorobenzene
Concen: 42.366 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. 0.00 min
Lab File: VU027232.D
Acq: 27 Sep 2018 18:17

Tgt Ion: 95 Resp: 78418
Ion Ratio Lower Upper
95 100
174 74.7 0.0 150.2
176 71.4 0.0 145.2

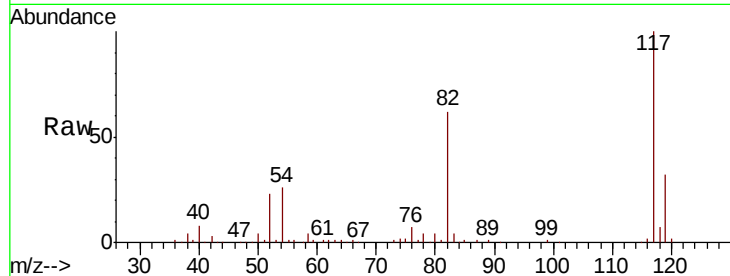




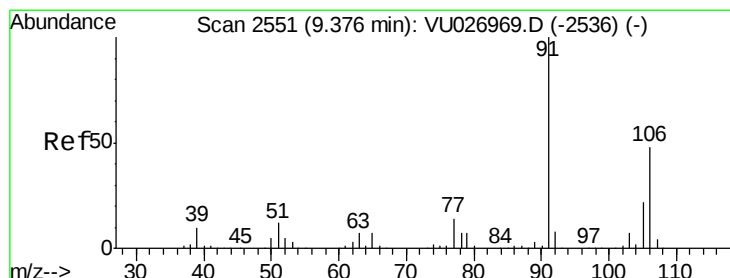
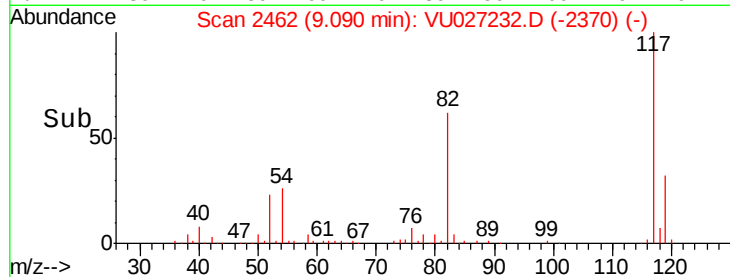
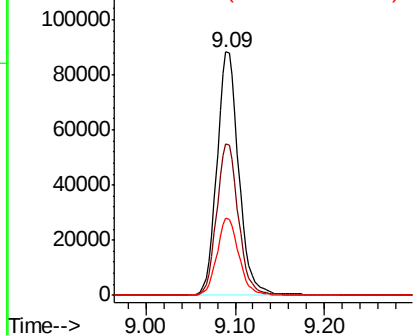
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU027232.D
Acq: 27 Sep 2018 18:17

Instrument :
MSVOA_U
ClientSampleId :
MH-9

Tot Ion:117 Resp: 149348
Ion Ratio Lower Upper
117 100
82 62.0 48.0 72.0
119 31.6 25.8 38.8

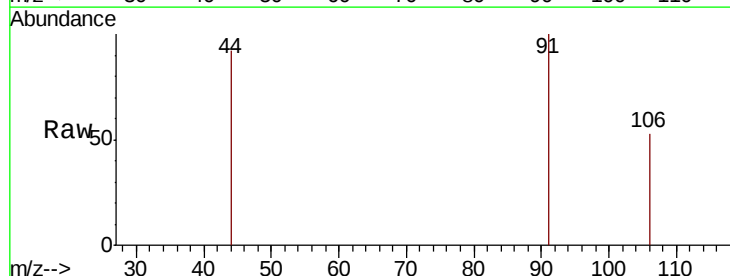


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

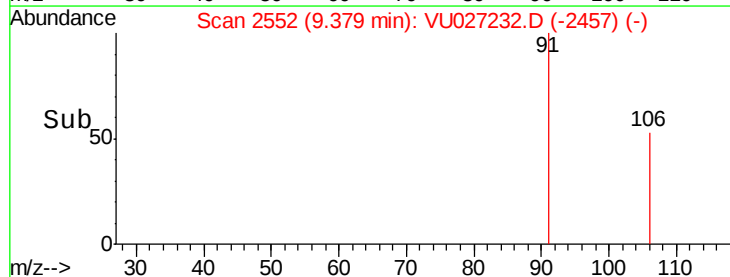
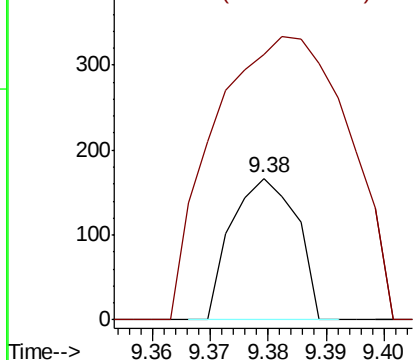


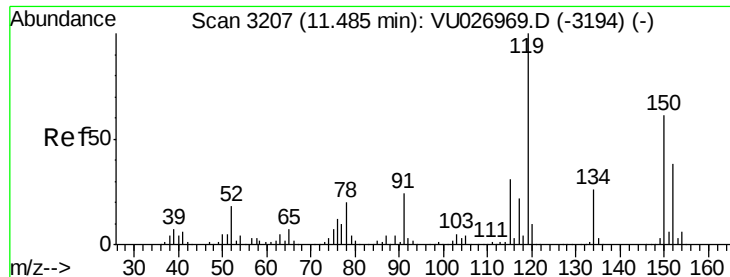
#68
m/p-Xylenes
Concen: 1.549 ug/l
RT: 9.38 min Scan# 2552
Delta R.T. 0.00 min
Lab File: VU027232.D
Acq: 27 Sep 2018 18:17

Tgt Ion:106 Resp: 130
Ion Ratio Lower Upper
106 100
91 413.1 166.5 249.7#



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU027232.D

Acq: 27 Sep 2018 18:17

Instrument :

MSVOA_U

ClientSampleId :

MH-9

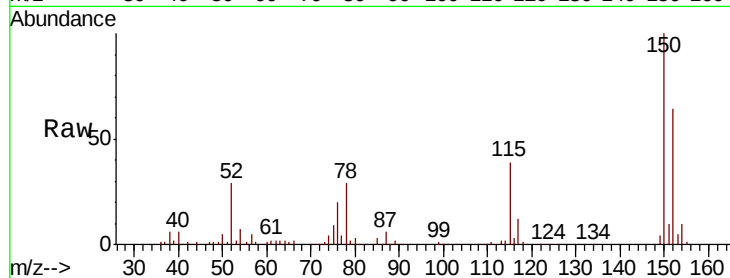
Tot Ion:152 Resp: 65992

Ion Ratio Lower Upper

152 100

115 61.7 44.9 134.5

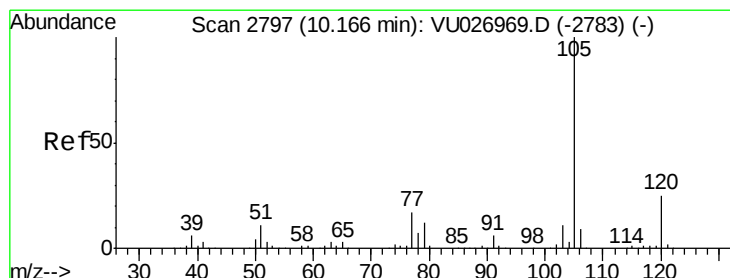
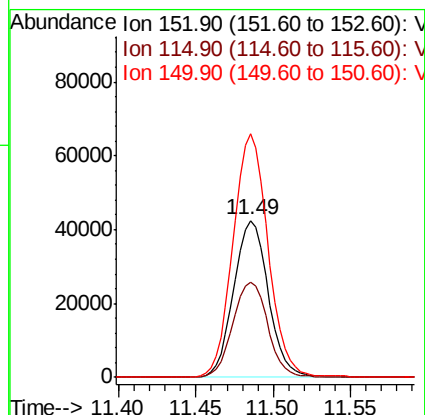
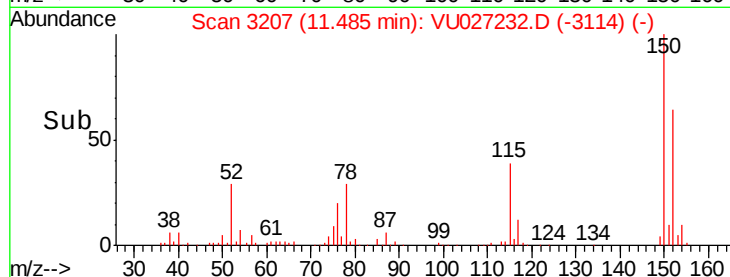
150 157.2 0.0 355.8



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



#73

Isopropylbenzene

Concen: 0.912 ug/l

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU027232.D

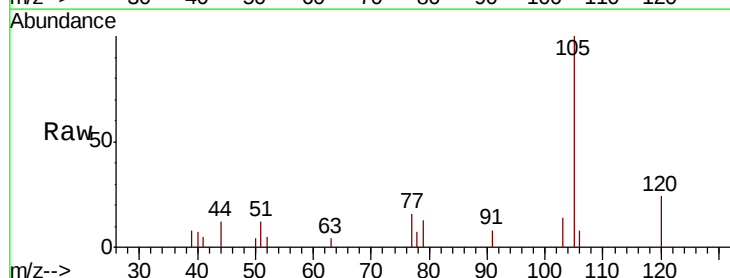
Acq: 27 Sep 2018 18:17

Tgt Ion:105 Resp: 4580

Ion Ratio Lower Upper

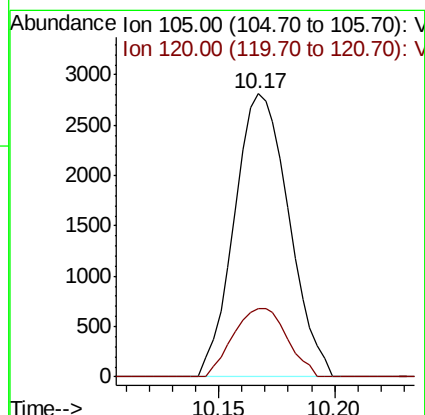
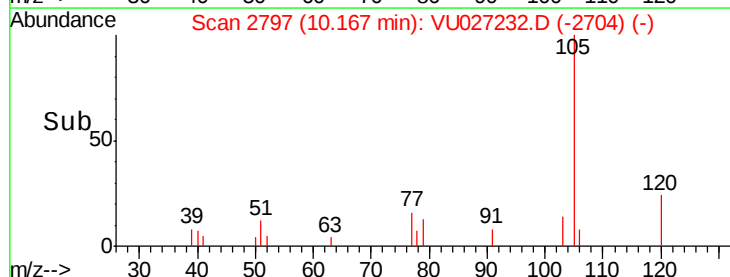
105 100

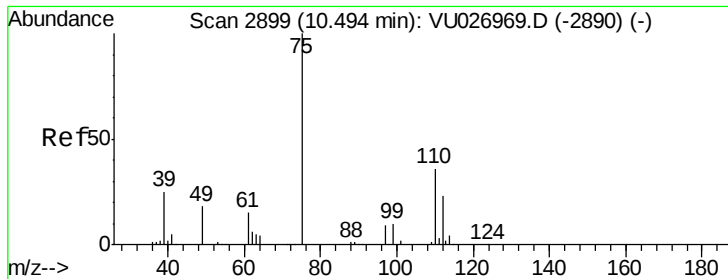
120 24.0 12.8 38.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 21.176 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU027232.D

Acq: 27 Sep 2018 18:17

Instrument :

MSVOA_U

ClientSampleId :

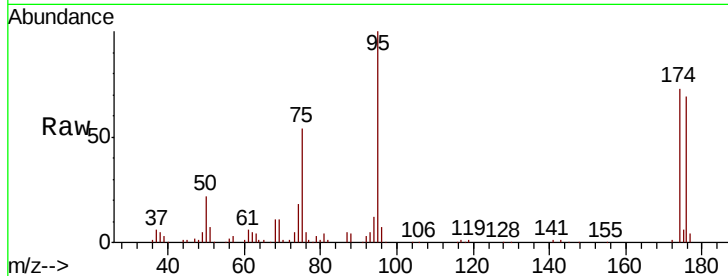
MH-9

Tot Ion: 75 Resp: 42454

Ion Ratio Lower Upper

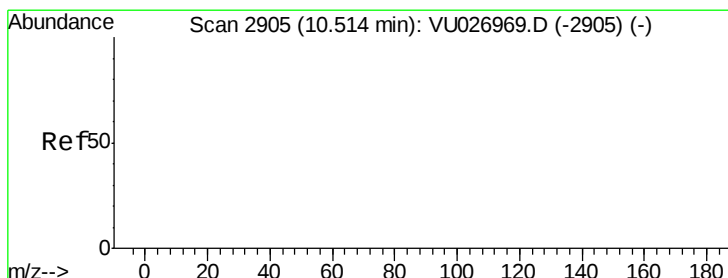
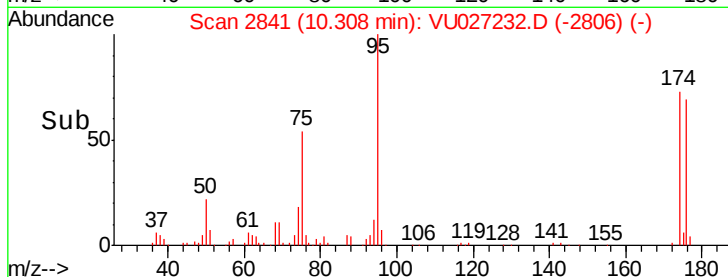
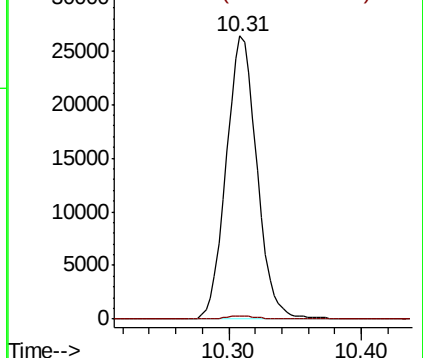
75 100

77 1.0 20.9 62.8#



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: 67.767 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.21 min

Lab File: VU027232.D

Acq: 27 Sep 2018 18:17

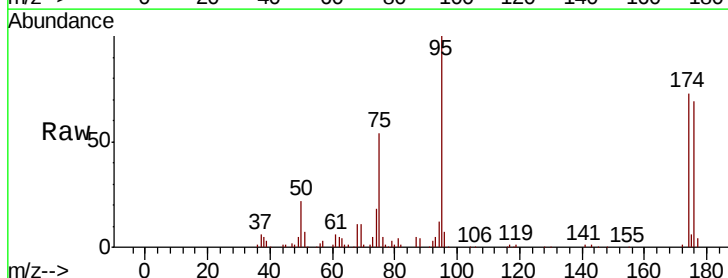
Tgt Ion: 75 Resp: 42454

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

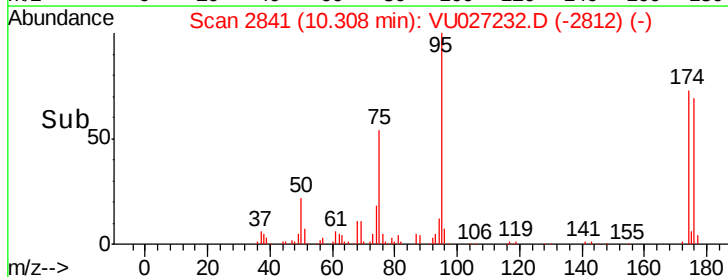
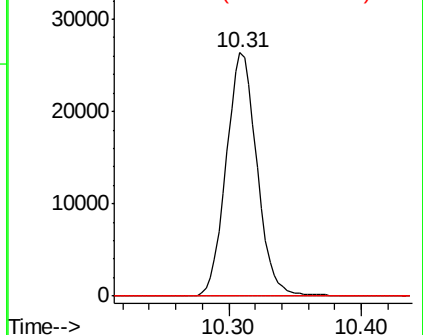
89 0.0 0.0 0.0

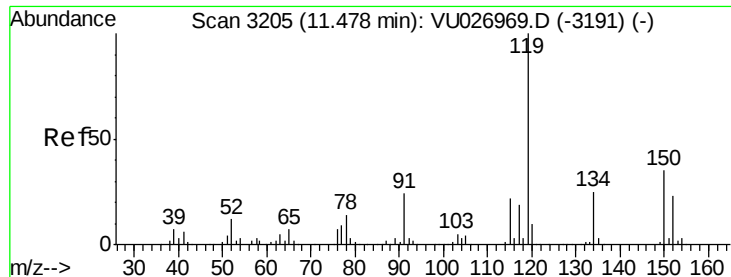


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

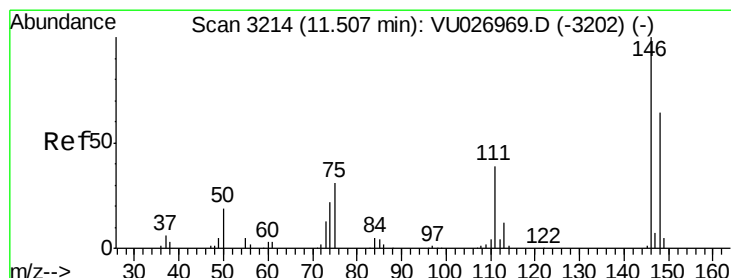
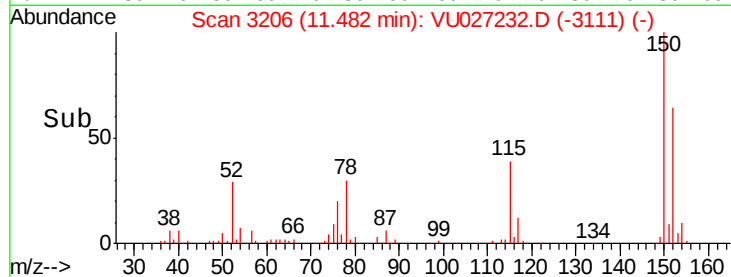
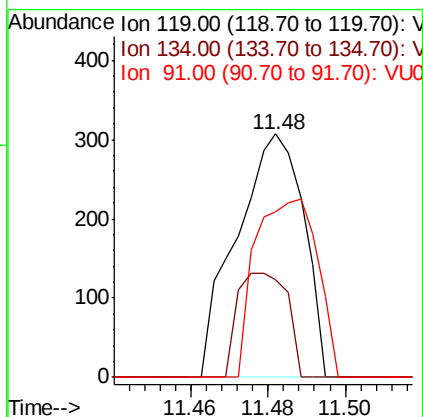
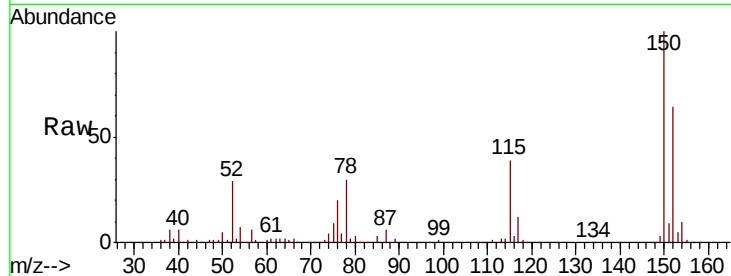




#86
 p-Isopropyltoluene
 Concen: 1.005 ug/l
 RT: 11.48 min Scan# 3206
 Delta R.T. 0.00 min
 Lab File: VU027232.D
 Acq: 27 Sep 2018 18:17

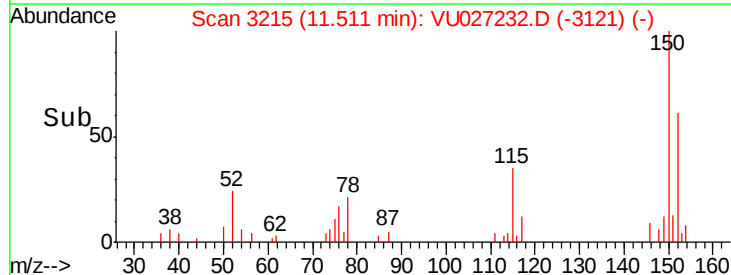
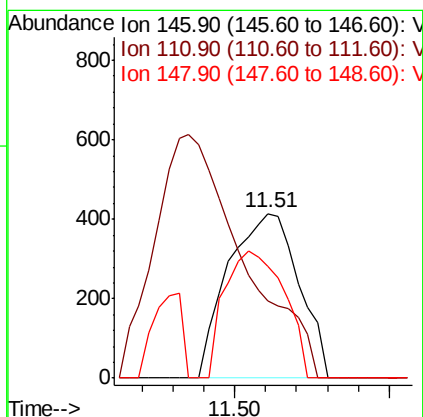
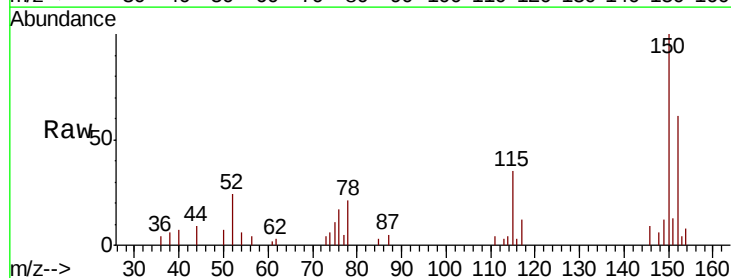
Instrument :
 MSVOA_U
 ClientSampleID :
 MH-9

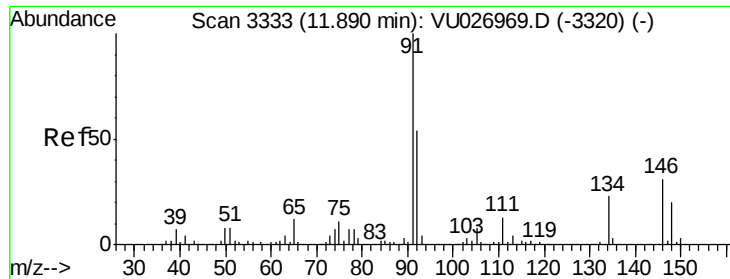
Tot Ion:119 Resp: 371
 Ion Ratio Lower Upper
 119 100
 134 31.5 12.8 38.3
 91 67.7 12.3 36.8#



#88
 1,4-Dichlorobenzene
 Concen: 0.264 ug/l
 RT: 11.51 min Scan# 3215
 Delta R.T. 0.00 min
 Lab File: VU027232.D
 Acq: 27 Sep 2018 18:17

Tgt Ion:146 Resp: 658
 Ion Ratio Lower Upper
 146 100
 111 0.0 20.3 60.9#
 148 65.2 31.9 95.9

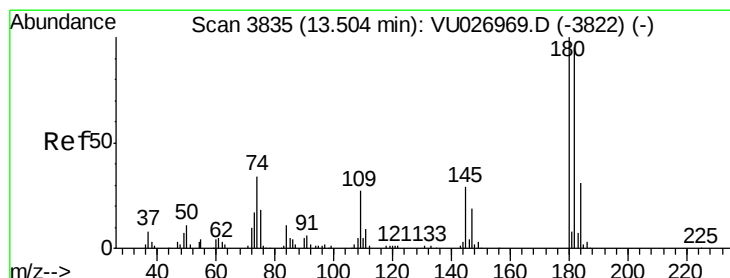
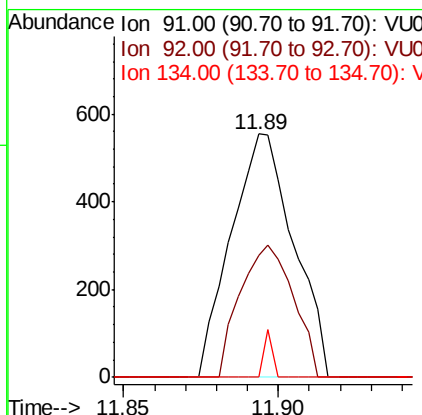
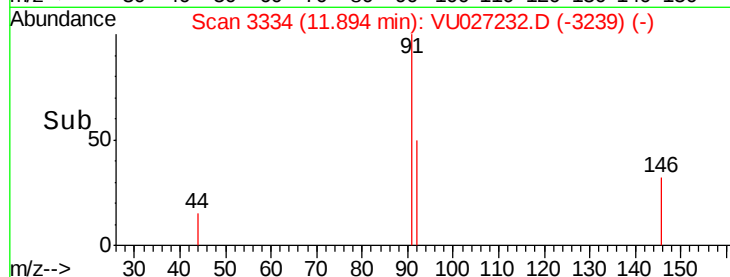
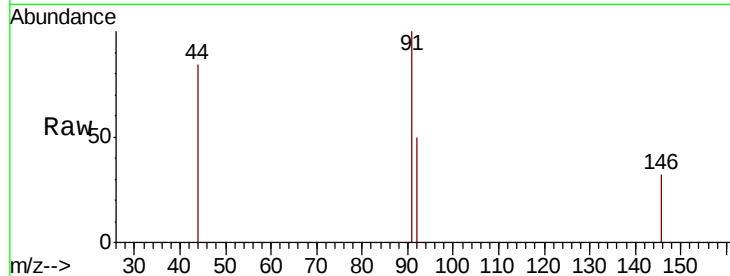




#89
n-Butylbenzene
Concen: 2.556 ug/l
RT: 11.89 min Scan# 3334
Delta R.T. 0.00 min
Lab File: VU027232.D
Acq: 27 Sep 2018 18:17

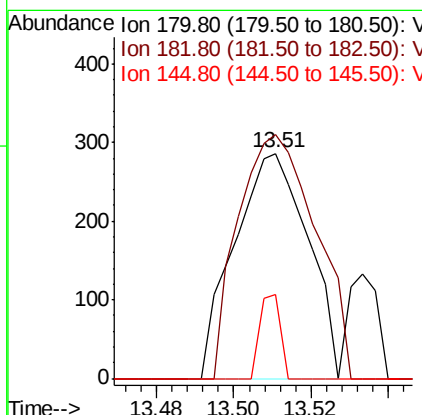
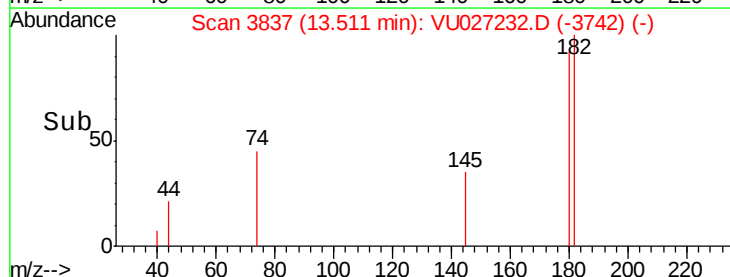
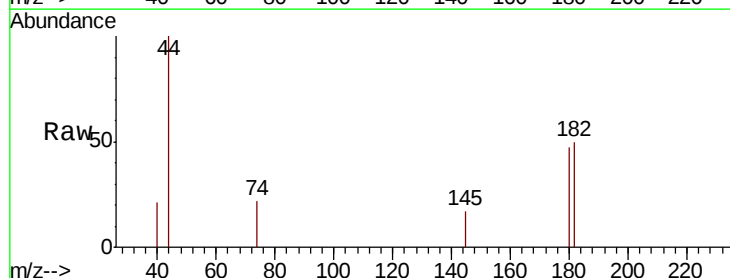
Instrument :
MSVOA_U
ClientSampled :
MH-9

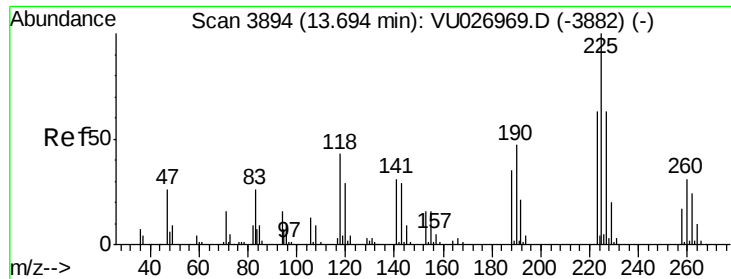
Tot Ion: 91 Resp: 780
Ion Ratio Lower Upper
91 100
92 46.0 27.1 81.2
134 2.7 11.7 35.0#



#93
1,2,4-Trichlorobenzene
Concen: 0.271 ug/l
RT: 13.51 min Scan# 3837
Delta R.T. 0.01 min
Lab File: VU027232.D
Acq: 27 Sep 2018 18:17

Tgt Ion: 180 Resp: 378
Ion Ratio Lower Upper
180 100
182 114.3 47.4 142.2
145 10.6 14.9 44.5#

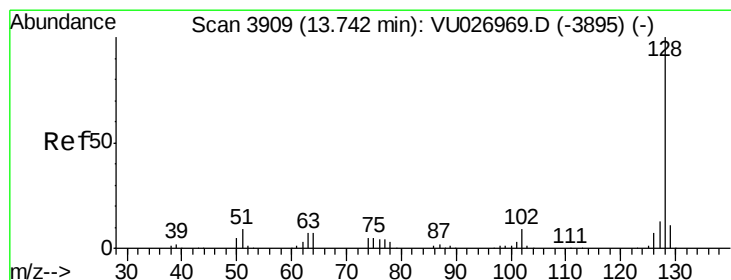
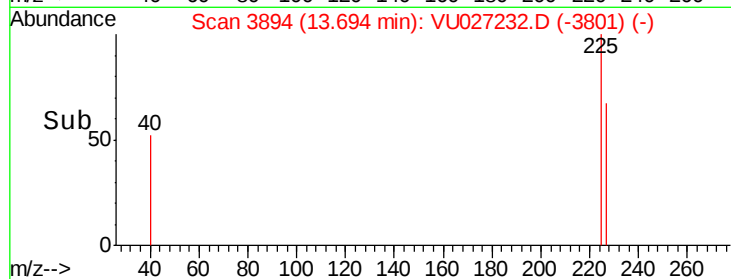
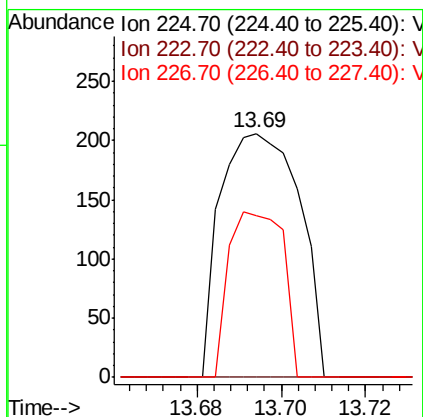
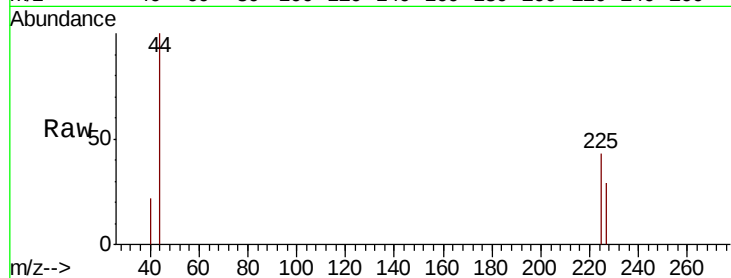




#94
Hexachlorobutadiene
Concen: 0.362 ug/l
RT: 13.69 min Scan# 3894
Delta R.T. 0.00 min
Lab File: VU027232.D
Acq: 27 Sep 2018 18:17

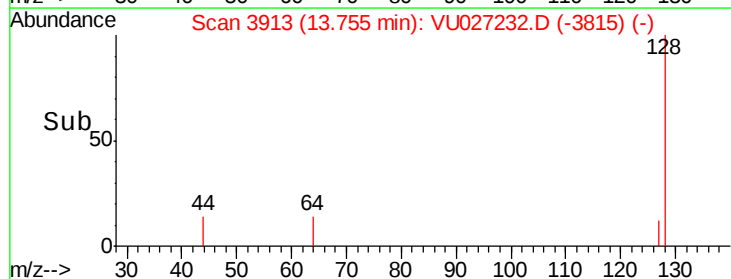
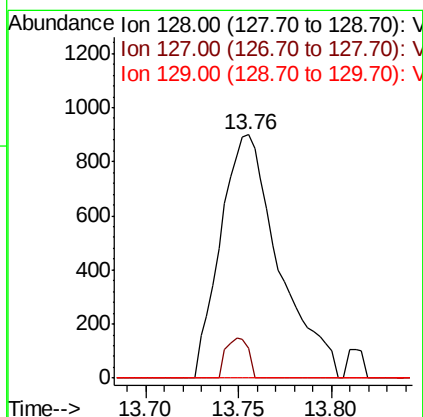
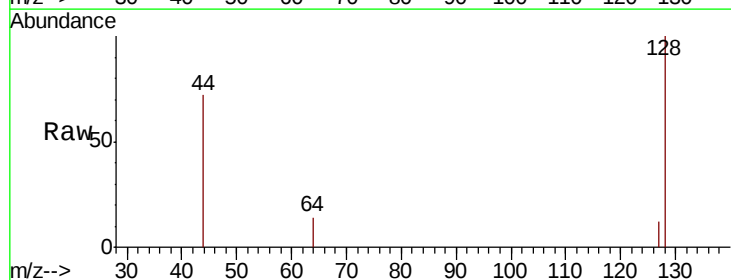
Instrument :
MSVOA_U
ClientSampled :
MH-9

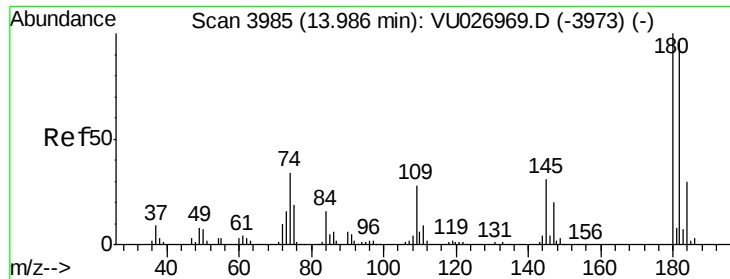
Tot Ion:225 Resp: 268
Ion Ratio Lower Upper
225 100
223 0.0 31.9 95.7#
227 46.6 32.1 96.5



#95
Naphthalene
Concen: 2.037 ug/l
RT: 13.76 min Scan# 3913
Delta R.T. 0.01 min
Lab File: VU027232.D
Acq: 27 Sep 2018 18:17

Tgt Ion:128 Resp: 1969
Ion Ratio Lower Upper
128 100
127 6.2 10.6 15.8#
129 0.0 8.6 12.8#





#96

1,2,3-Trichlorobenzene

Concen: 0.407 ug/l

RT: 13.99 min Scan# 3986

Delta R.T. 0.00 min

Lab File: VU027232.D

Acq: 27 Sep 2018 18:17

Instrument :

MSVOA_U

ClientSampleId :

MH-9

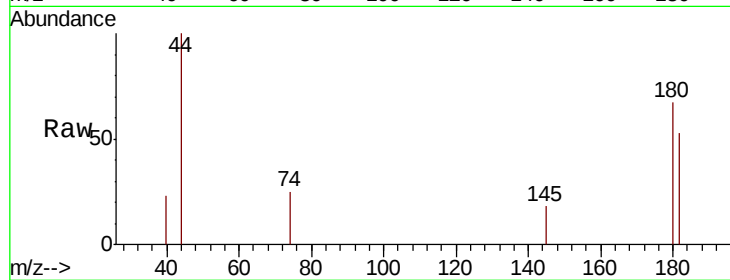
Tot Ion:180 Resp: 610

Ion Ratio Lower Upper

180 100

182 89.8 47.5 142.5

145 13.4 15.4 46.4#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

