

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010919\
 Data File : VU029101.D
 Acq On : 09 Jan 2019 19:51
 Operator : MD/SY
 Sample : PB116248ZHE#16
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 10 04:08:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U010319W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jan 04 02:22:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	107085	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	185440	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	180174	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	70634	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	74601	56.35	ug/l	0.00
Spiked Amount			Recovery	=	112.70%	
35) Dibromofluoromethane	4.88	113	64396	53.57	ug/l	0.00
Spiked Amount			Recovery	=	107.14%	
50) Toluene-d8	7.56	98	246944	52.04	ug/l	0.00
Spiked Amount			Recovery	=	104.08%	
62) 4-Bromofluorobenzene	10.30	95	76178	44.67	ug/l	0.00
Spiked Amount			Recovery	=	89.34%	

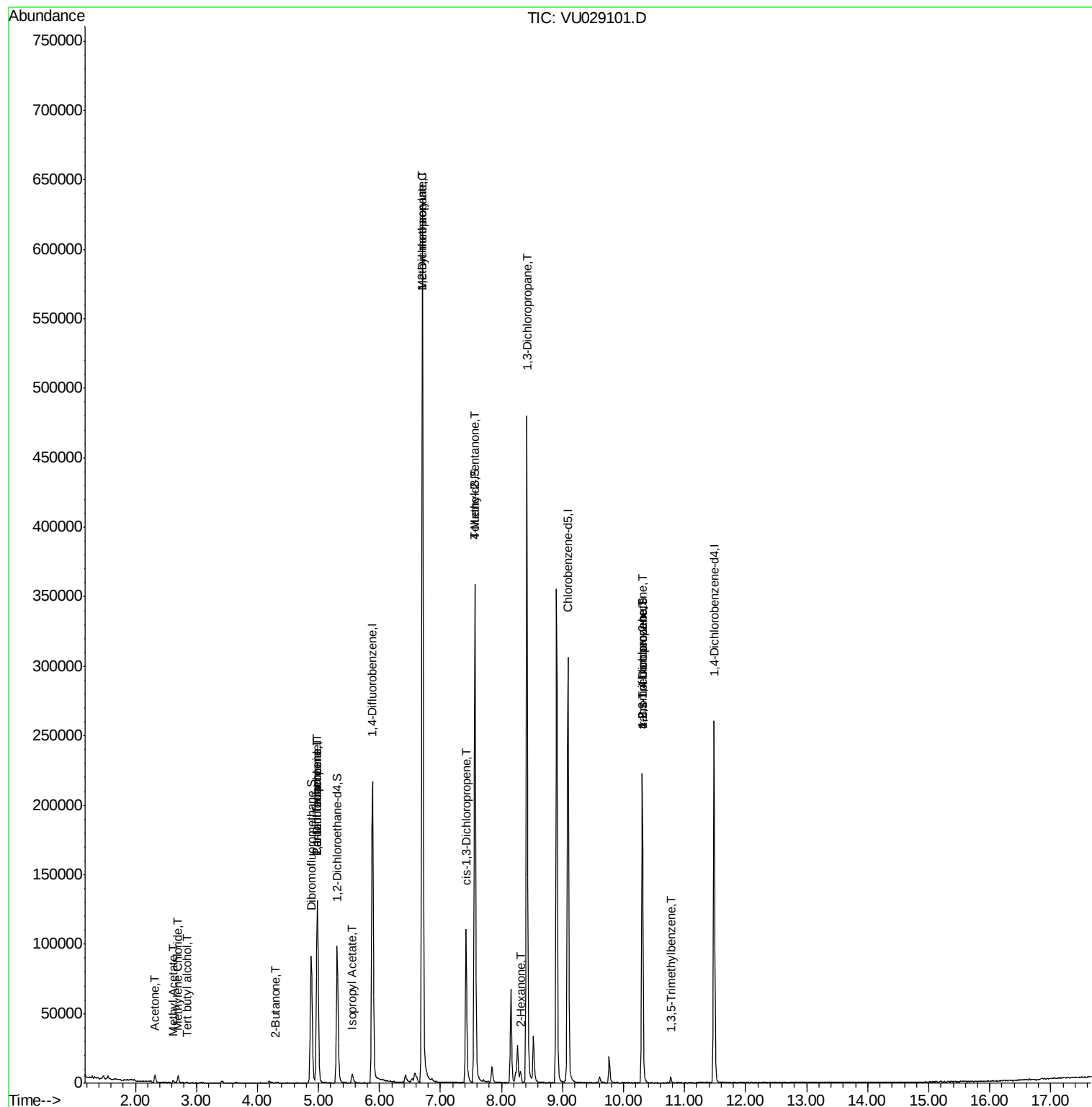
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	588	Below Cal	#	76
5) Bromomethane	1.55	94	43	Below Cal	#	2
11) Tert butyl alcohol	2.84	59	443	1.317	ug/l #	73
16) Acetone	2.32	43	5561	6.668	ug/l	98
18) Methyl Acetate	2.63	43	2106	1.086	ug/l	93
20) Methylene Chloride	2.70	84	2213	1.563	ug/l	99
25) 2-Butanone	4.30	43	226	0.201	ug/l #	47
31) Cyclohexane	4.98	56	1996	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	7820	4.219	ug/l #	47
38) Carbon Tetrachloride	4.98	117	9337	6.040	ug/l #	17
43) Isopropyl Acetate	5.55	43	7937	2.543	ug/l	95
45) 1,2-Dichloropropane	6.70	63	715	0.468	ug/l #	43
48) Methyl methacrylate	6.70	41	54274	35.713	ug/l #	36
51) 4-Methyl-2-Pentanone	7.56	43	4139	1.949	ug/l	88
54) cis-1,3-Dichloropropene	7.42	75	20501	8.789	ug/l #	61
57) 1,3-Dichloropropane	8.41	76	4652	1.928	ug/l #	42
59) 2-Hexanone	8.31	43	6109	3.664	ug/l #	21
76) 1,2,3-Trichloropropane	10.30	75	36683	21.196	ug/l #	35
80) 1,3,5-Trimethylbenzene	10.77	105	2909	0.666	ug/l	95
81) trans-1,4-Dichloro-2-buten	10.30	75	36683	54.666	ug/l #	100

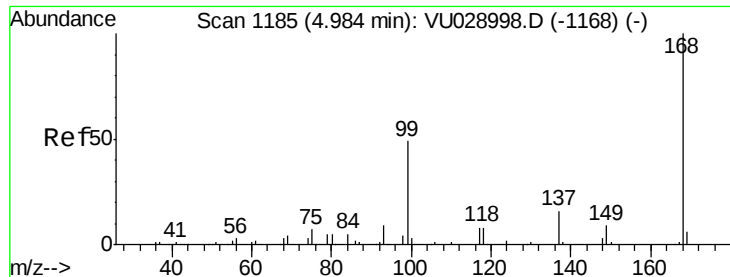
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Jan 04 02:22:53 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. 0.00 min

Lab File: VU029101.D

Acq: 09 Jan 2019 19:51

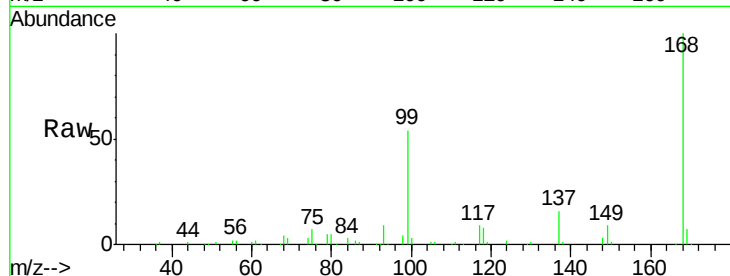
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:168 Resp: 107085

Ion Ratio Lower Upper

168 100

99 53.6 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): VU028998.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU028998.D (-1168) (-)

4.98

50000

40000

30000

20000

10000

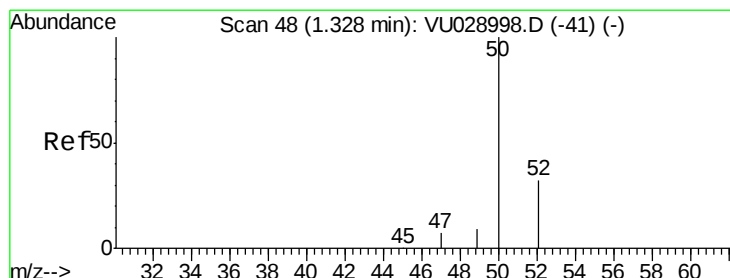
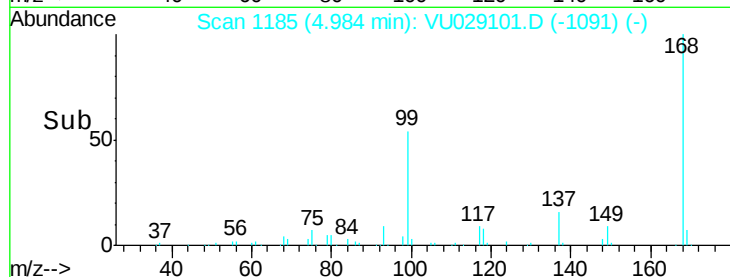
0

4.90

5.00

5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 48

Delta R.T. 0.00 min

Lab File: VU029101.D

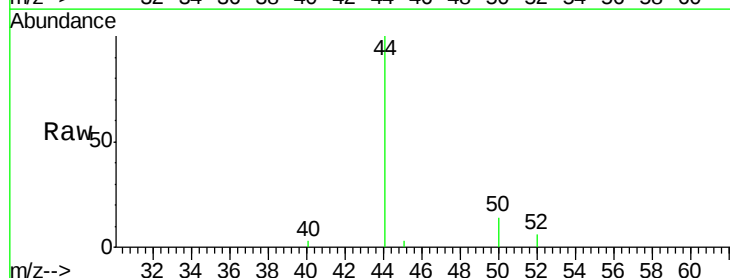
Acq: 09 Jan 2019 19:51

Tgt Ion: 50 Resp: 588

Ion Ratio Lower Upper

50 100

52 46.1 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VU028998.D (-41) (-)

Ion 51.90 (51.60 to 52.60): VU028998.D (-41) (-)

1.33

600

500

400

300

200

100

0

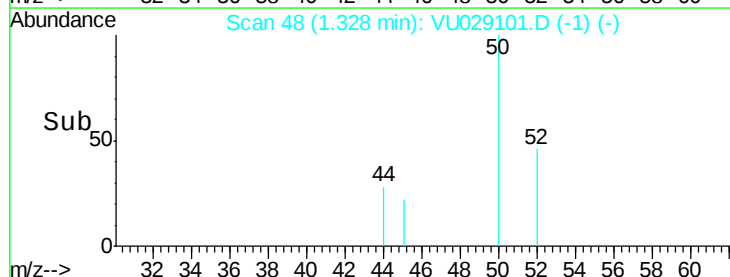
1.30

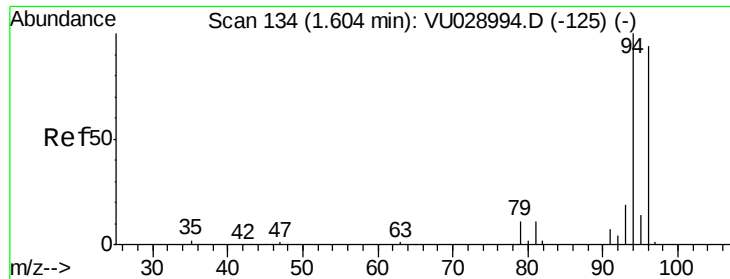
1.32

1.34

1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.55 min Scan# 118

Delta R.T. -0.05 min

Lab File: VU029101.D

Acq: 09 Jan 2019 19:51

Instrument :

MSVOA_U

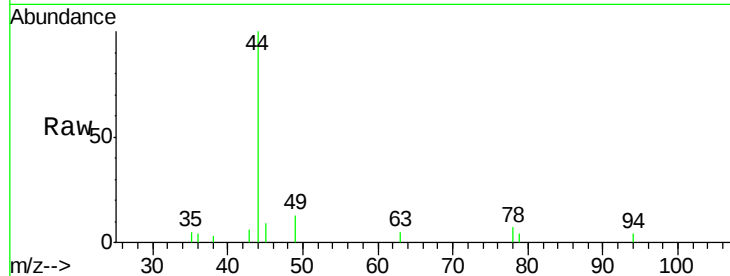
ClientSampleId :

Tot Ion: 94 Resp: 43

Ion Ratio Lower Upper

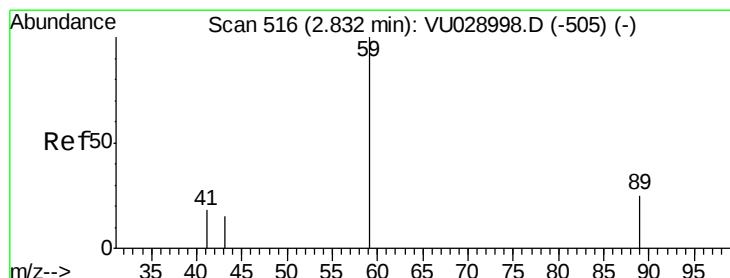
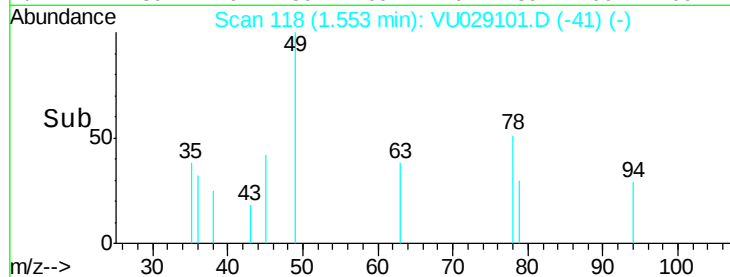
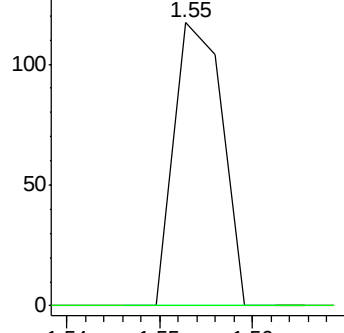
94 100

96 0.0 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#11

Tert butyl alcohol

Concen: 1.317 ug/l

RT: 2.84 min Scan# 517

Delta R.T. 0.00 min

Lab File: VU029101.D

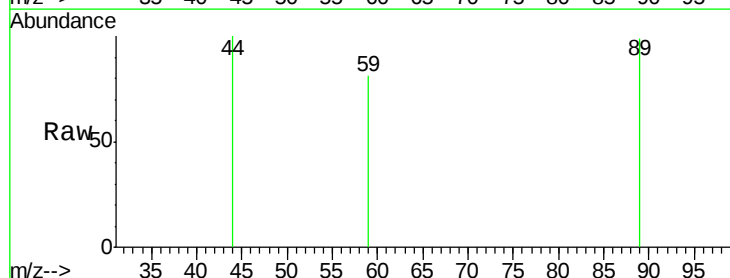
Acq: 09 Jan 2019 19:51

Tgt Ion: 59 Resp: 443

Ion Ratio Lower Upper

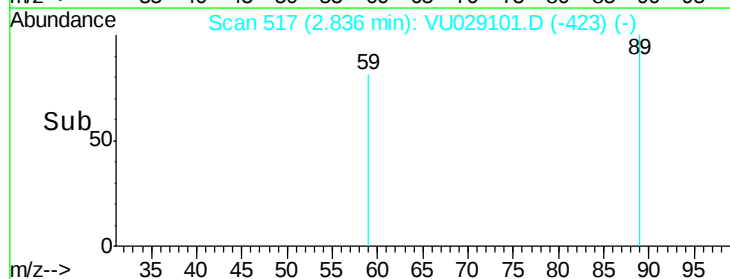
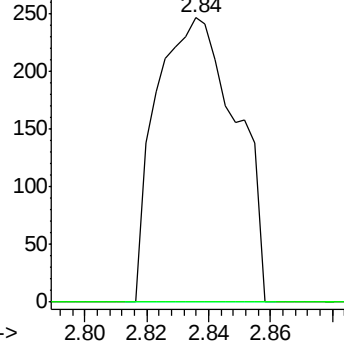
59 100

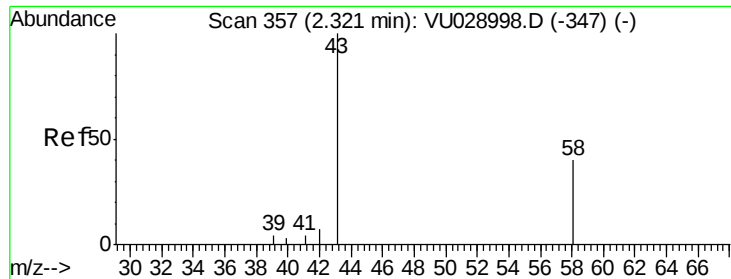
57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

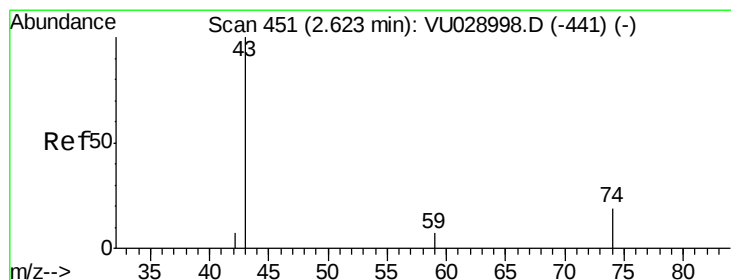
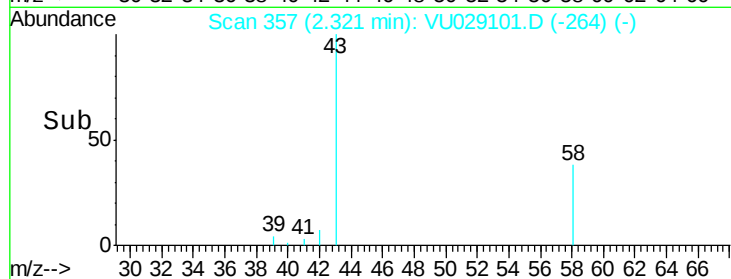
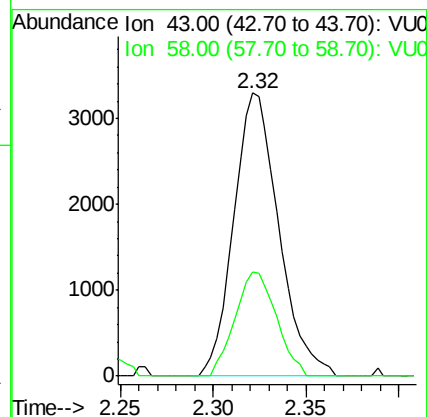
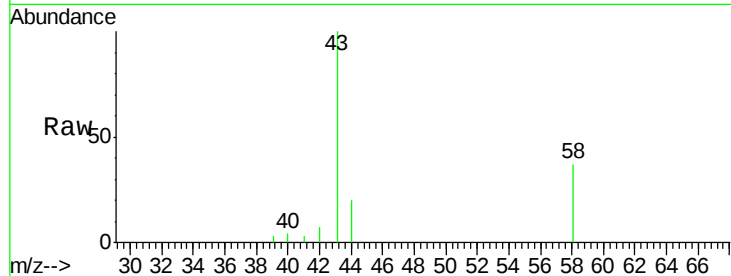




#16
Acetone
Concen: 6.668 ug/l
RT: 2.32 min Scan# 357
Delta R.T. 0.00 min
Lab File: VU029101.D
Acq: 09 Jan 2019 19:51

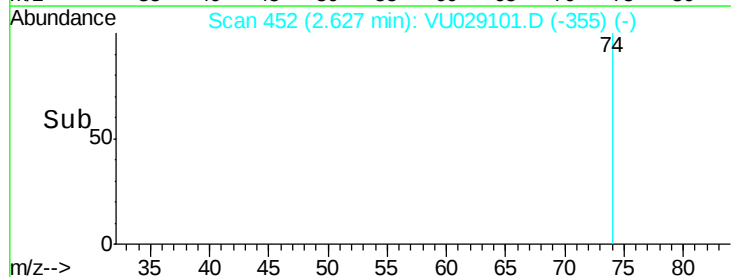
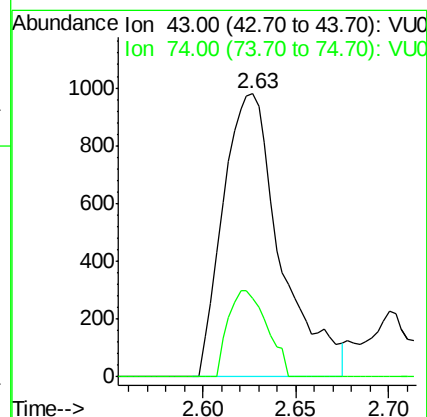
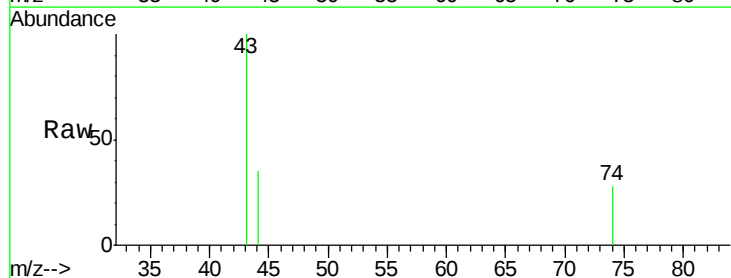
Instrument :
MSVOA_U
ClientSampled :

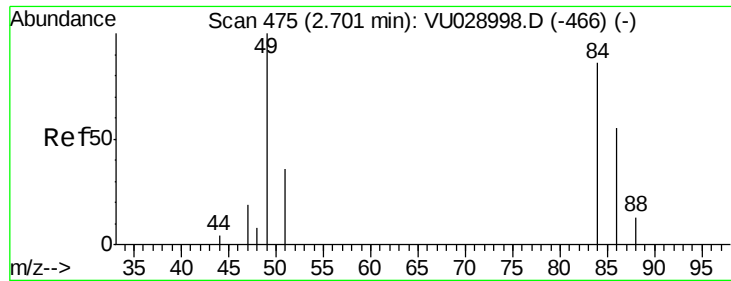
Tot Ion: 43 Resp: 5561
Ion Ratio Lower Upper
43 100
58 36.7 28.6 42.8



#18
Methyl Acetate
Concen: 1.086 ug/l
RT: 2.63 min Scan# 452
Delta R.T. 0.01 min
Lab File: VU029101.D
Acq: 09 Jan 2019 19:51

Tgt Ion: 43 Resp: 2106
Ion Ratio Lower Upper
43 100
74 20.7 19.5 29.3

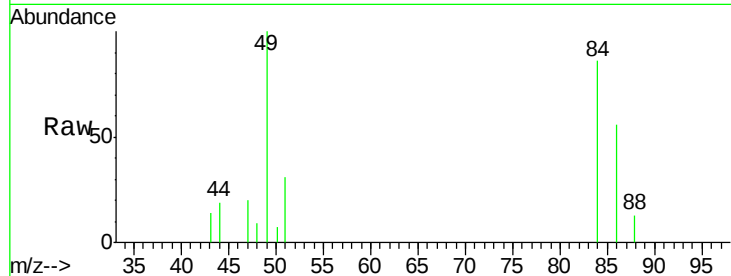




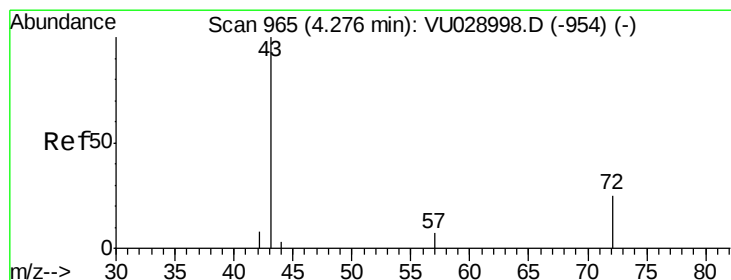
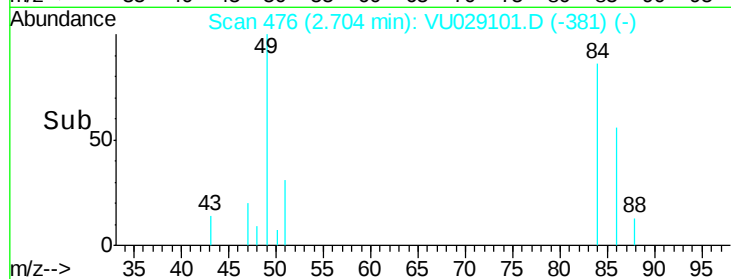
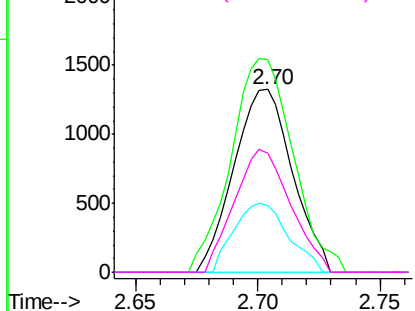
#20
Methylene Chloride
Concen: 1.563 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.01 min
Lab File: VU029101.D
Acq: 09 Jan 2019 19:51

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 84 Resp: 2213
Ion Ratio Lower Upper
84 100
49 116.2 91.9 137.9
51 36.6 29.2 43.8
86 65.1 51.8 77.6

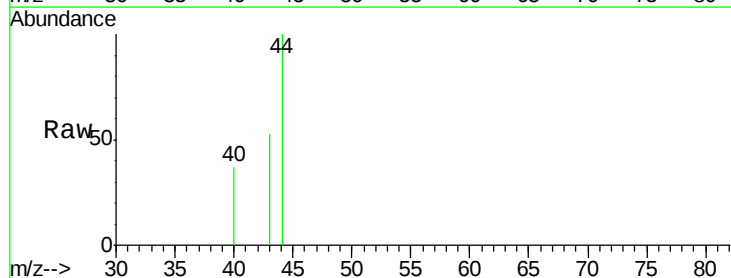


Abundance Ion 83.90 (83.60 to 84.60): VU0
Ion 48.90 (48.60 to 49.60): VU0
Ion 50.90 (50.60 to 51.60): VU0
Ion 85.90 (85.60 to 86.60): VU0

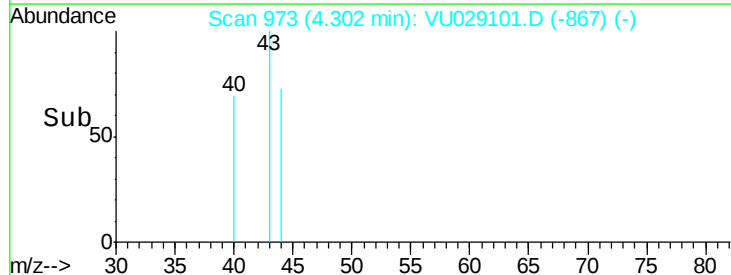
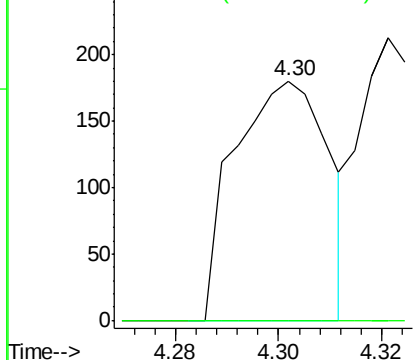


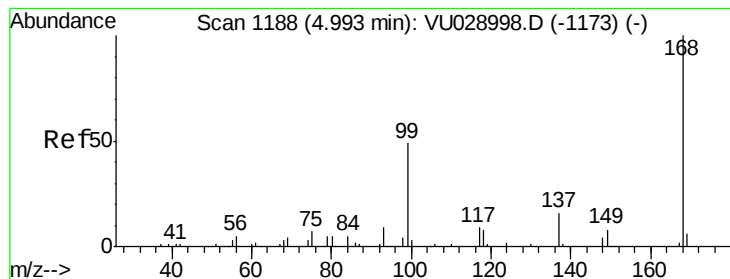
#25
2-Butanone
Concen: 0.201 ug/l
RT: 4.30 min Scan# 973
Delta R.T. 0.04 min
Lab File: VU029101.D
Acq: 09 Jan 2019 19:51

Tgt Ion: 43 Resp: 226
Ion Ratio Lower Upper
43 100
72 0.0 22.6 33.8#



Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 72.00 (71.70 to 72.70): VU0





#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1185

Delta R.T. -0.01 min

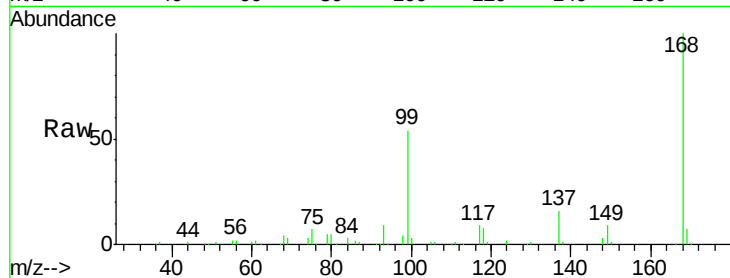
Lab File: VU029101.D

Acq: 09 Jan 2019 19:51

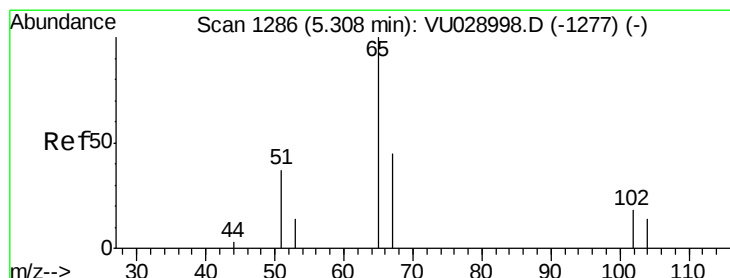
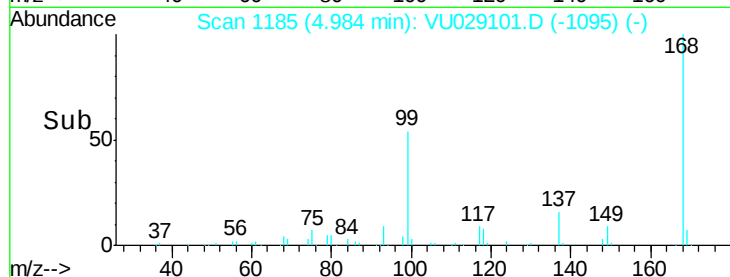
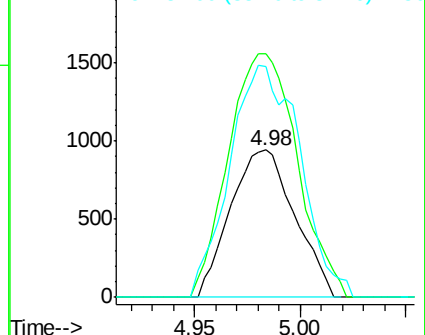
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 56 Resp: 1996

Ion	Ratio	Lower	Upper
56	100		
69	165.2	26.7	40.1#
84	156.7	65.7	98.5#



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



#33

1,2-Dichloroethane-d4

Concen: 56.354 ug/l

RT: 5.31 min Scan# 1286

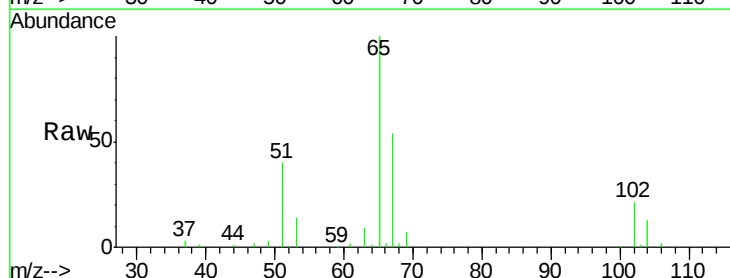
Delta R.T. 0.00 min

Lab File: VU029101.D

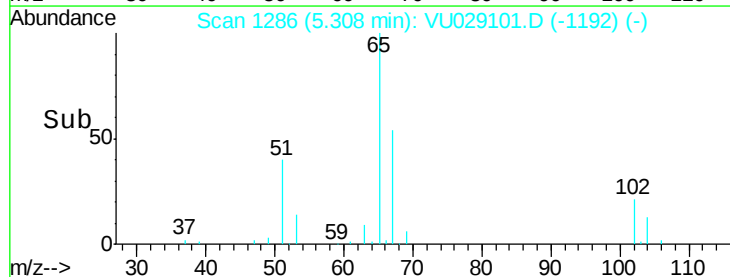
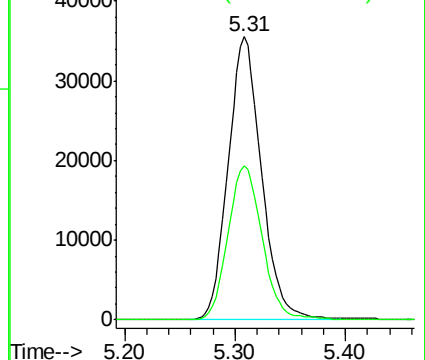
Acq: 09 Jan 2019 19:51

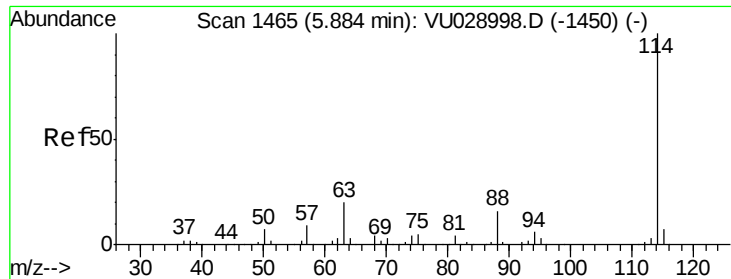
Tgt Ion: 65 Resp: 74601

Ion	Ratio	Lower	Upper
65	100		
67	55.8	0.0	111.0



Abundance Ion 64.90 (64.60 to 65.60): VU0
Ion 66.90 (66.60 to 67.60): VU0

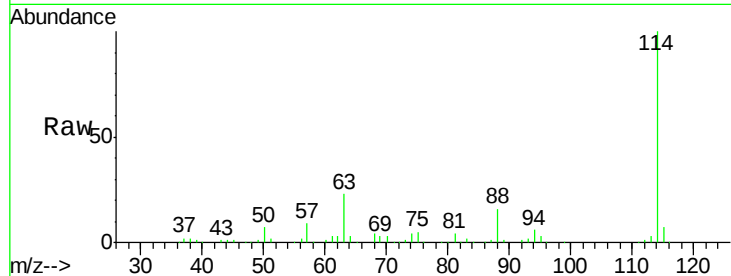




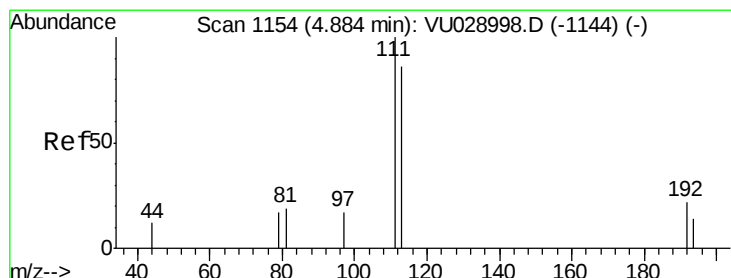
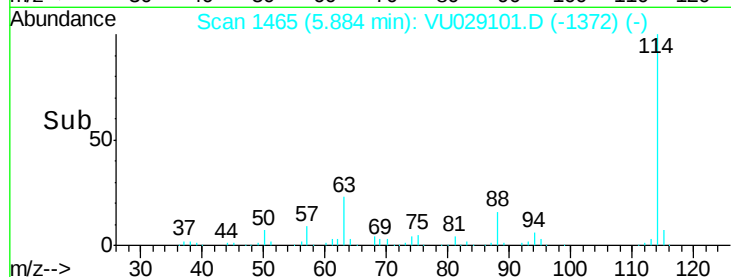
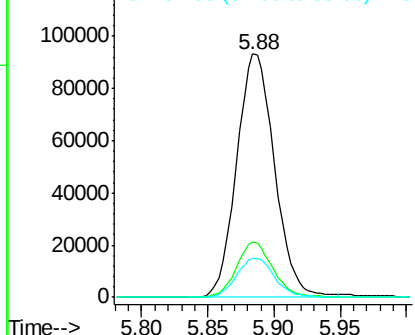
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. 0.00 min
 Lab File: VU029101.D
 Acq: 09 Jan 2019 19:51

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:114 Resp: 185440
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 40.2
 88 15.8 0.0 30.4

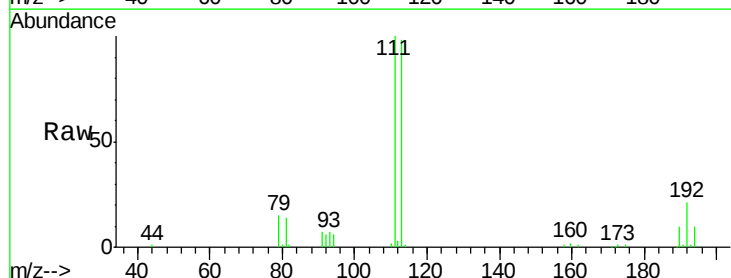


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

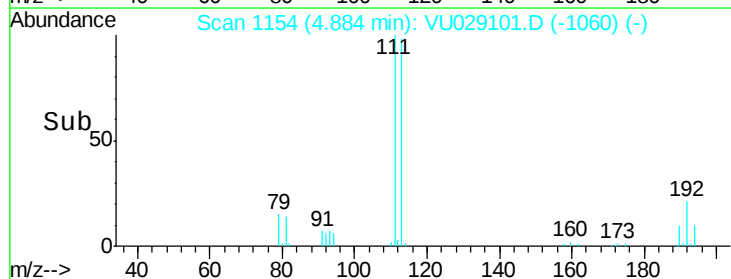
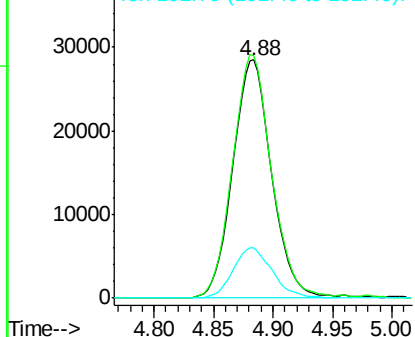


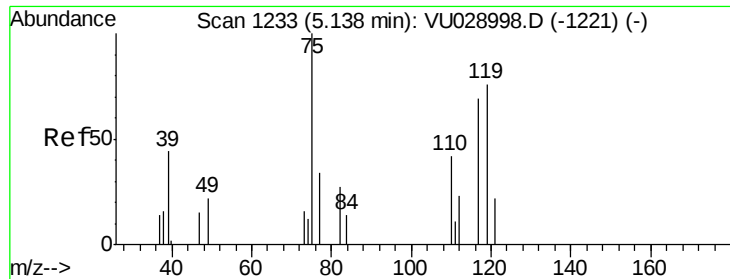
#35
 Dibromofluoromethane
 Concen: 53.571 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. 0.00 min
 Lab File: VU029101.D
 Acq: 09 Jan 2019 19:51

Tgt Ion:113 Resp: 64396
 Ion Ratio Lower Upper
 113 100
 111 102.5 81.4 122.2
 192 21.2 16.8 25.2



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

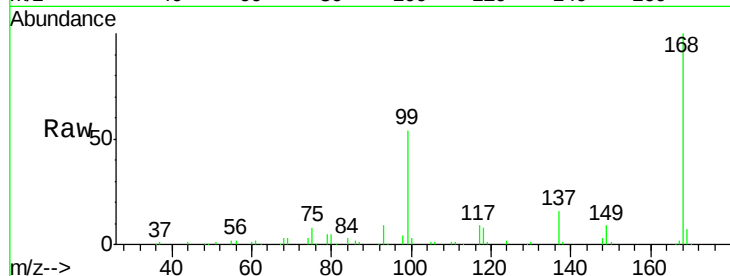




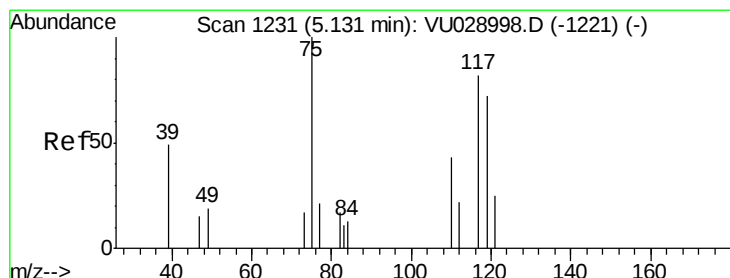
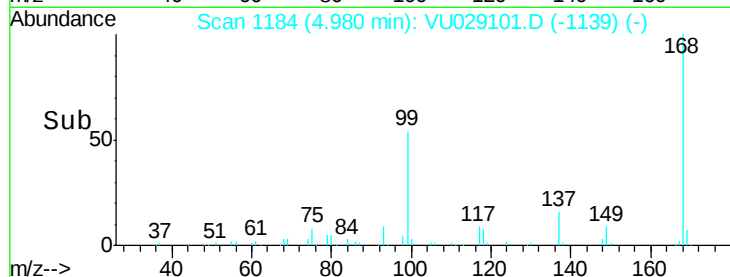
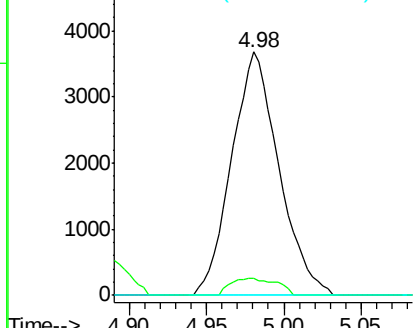
#36
 1,1-Dichloropropene
 Concen: 4.219 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.15 min
 Lab File: VU029101.D
 Acq: 09 Jan 2019 19:51

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 75 Resp: 7820
 Ion Ratio Lower Upper
 75 100
 110 6.8 18.4 55.4#
 77 0.0 25.1 37.7#

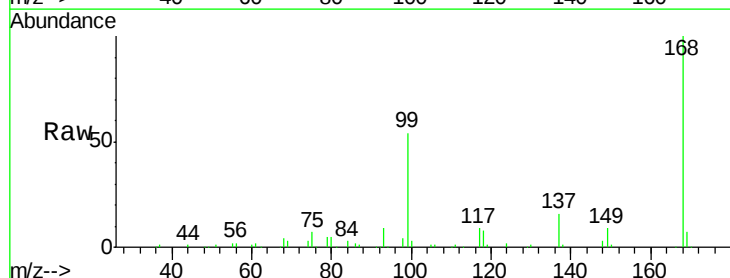


Abundance Ion 74.90 (74.60 to 75.60): VU028998.D (-1221) (-)
 Ion 109.90 (109.60 to 110.60): VU028998.D (-1221) (-)
 Ion 76.90 (76.60 to 77.60): VU028998.D (-1221) (-)

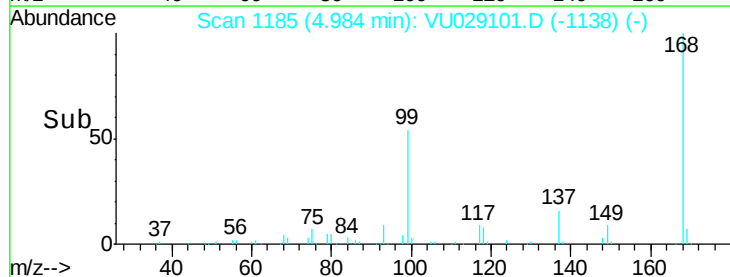
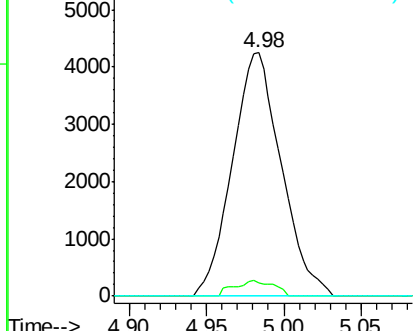


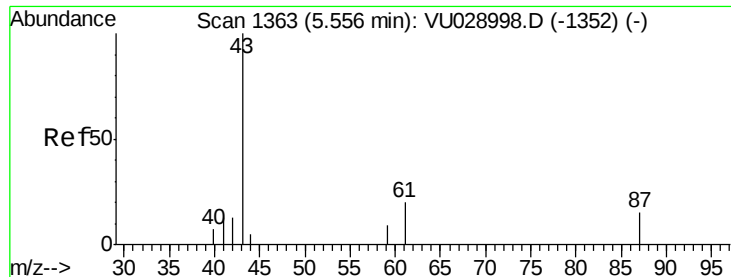
#38
 Carbon Tetrachloride
 Concen: 6.040 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU029101.D
 Acq: 09 Jan 2019 19:51

Tgt Ion: 117 Resp: 9337
 Ion Ratio Lower Upper
 117 100
 119 5.6 74.6 111.8#
 121 0.0 25.0 37.6#



Abundance Ion 116.80 (116.50 to 117.50): VU028998.D (-1221) (-)
 Ion 118.80 (118.50 to 119.50): VU028998.D (-1221) (-)
 Ion 120.80 (120.50 to 121.50): VU028998.D (-1221) (-)





#43

Isopropyl Acetate

Concen: 2.543 ug/l

RT: 5.55 min Scan# 1361

Delta R.T. 0.00 min

Lab File: VU029101.D

Acq: 09 Jan 2019 19:51

Instrument :

MSVOA_U

ClientSampleId :

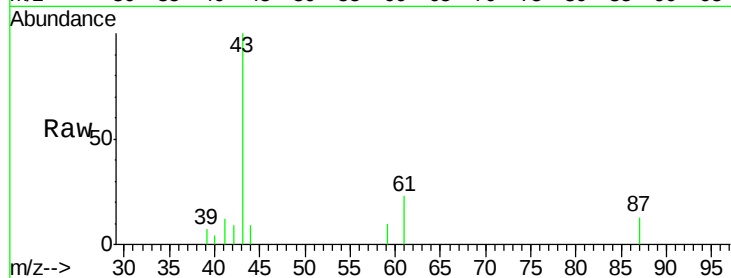
Tot Ion: 43 Resp: 7937

Ion Ratio Lower Upper

43 100

61 19.1 17.8 26.6

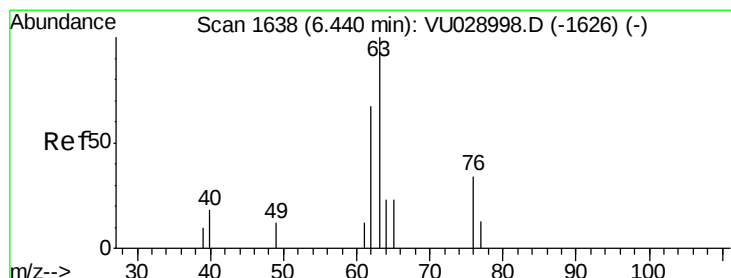
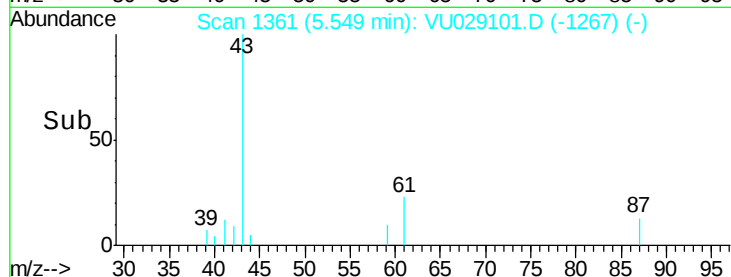
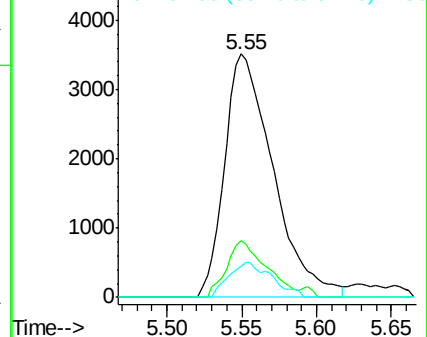
87 12.7 11.3 16.9



Abundance Ion 43.00 (42.70 to 43.70): VU028998.D (-1352) (-)

Ion 61.00 (60.70 to 61.70): VU028998.D (-1352) (-)

Ion 87.00 (86.70 to 87.70): VU028998.D (-1352) (-)



#45

1,2-Dichloropropane

Concen: 0.468 ug/l

RT: 6.70 min Scan# 1720

Delta R.T. 0.27 min

Lab File: VU029101.D

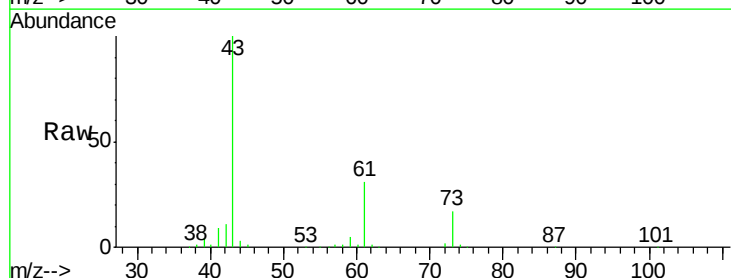
Acq: 09 Jan 2019 19:51

Tgt Ion: 63 Resp: 715

Ion Ratio Lower Upper

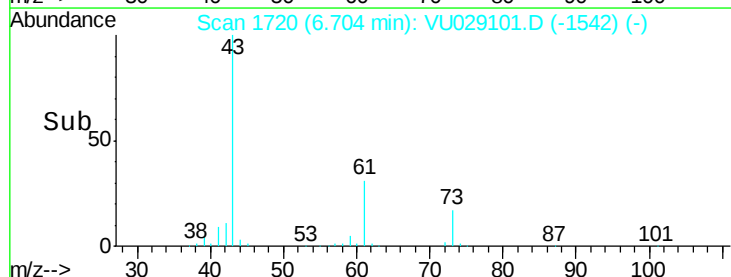
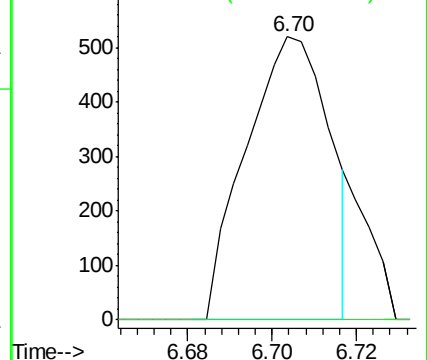
63 100

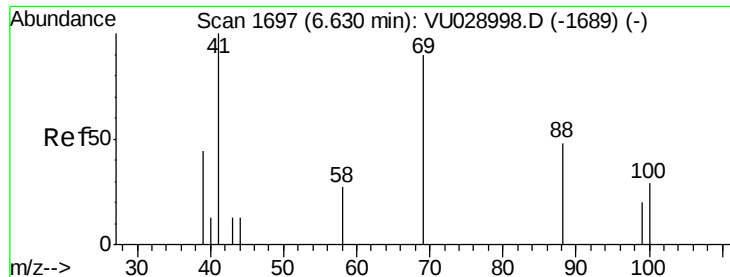
65 0.0 25.1 37.7#



Abundance Ion 62.90 (62.60 to 63.60): VU028998.D (-1626) (-)

Ion 64.90 (64.60 to 65.60): VU028998.D (-1626) (-)

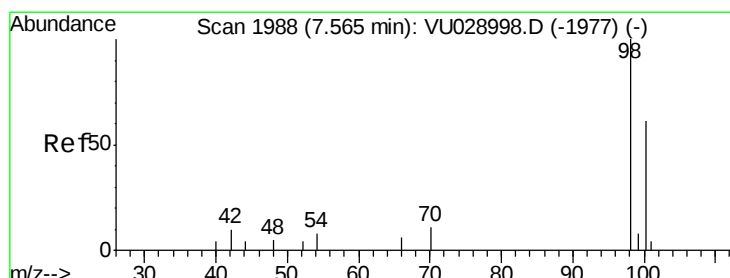
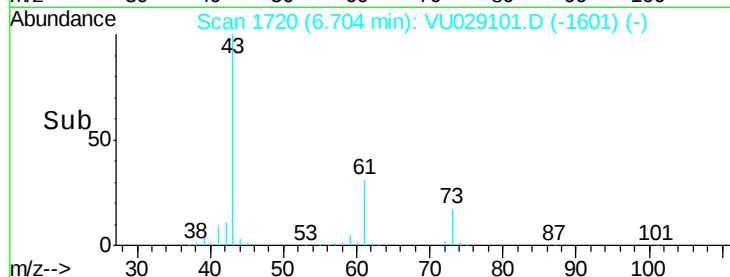
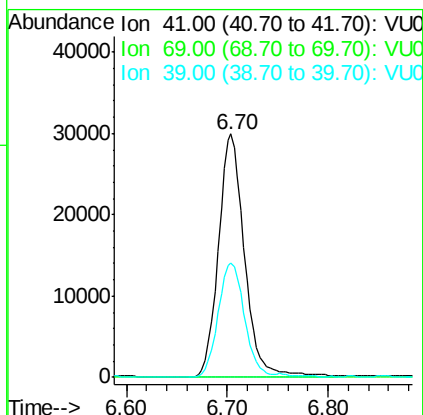
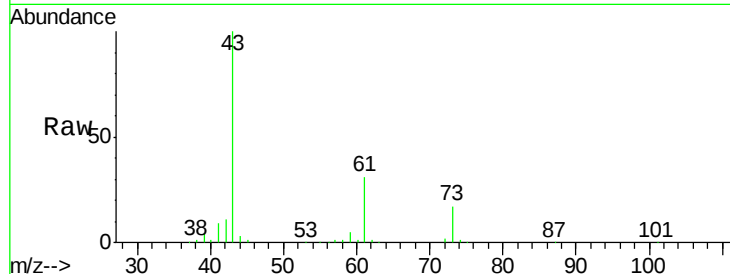




#48
Methvl methacrylate
Concen: 35.713 ug/l
RT: 6.70 min Scan# 1720
Delta R.T. 0.08 min
Lab File: VU029101.D
Acq: 09 Jan 2019 19:51

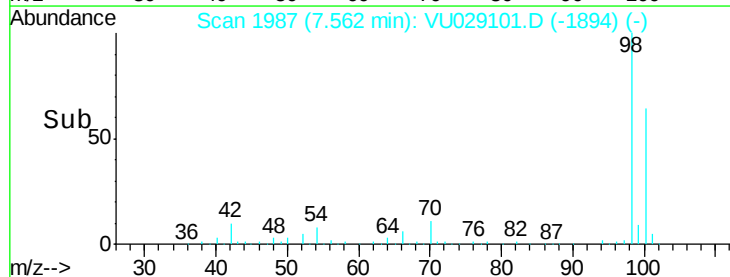
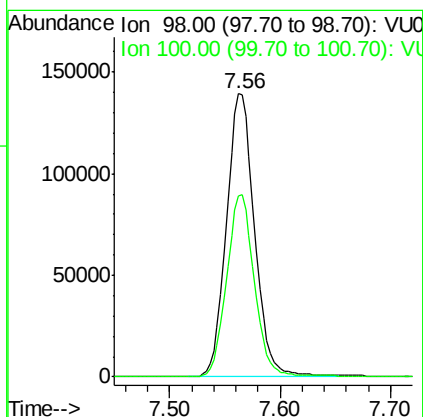
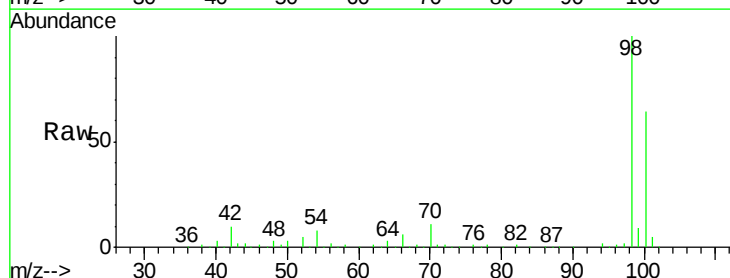
Instrument :
MSVOA_U
ClientSampleId :

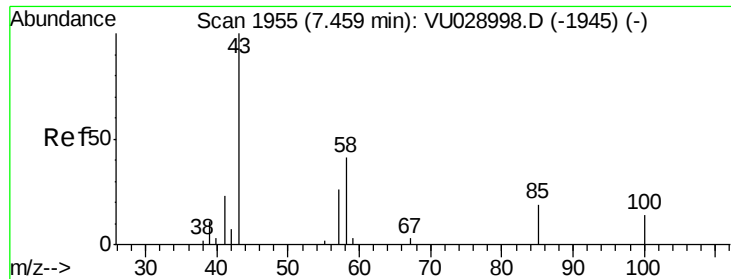
Tot Ion: 41 Resp: 54274
Ion Ratio Lower Upper
41 100
69 0.0 73.6 110.4#
39 47.1 39.6 59.4



#50
Toluene-d8
Concen: 52.036 ug/l
RT: 7.56 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VU029101.D
Acq: 09 Jan 2019 19:51

Tgt Ion: 98 Resp: 246944
Ion Ratio Lower Upper
98 100
100 63.8 51.6 77.4





#51

4-Methyl-2-Pentanone

Concen: 1.949 ug/l

RT: 7.56 min Scan# 1986

Delta R.T. 0.10 min

Lab File: VU029101.D

Acq: 09 Jan 2019 19:51

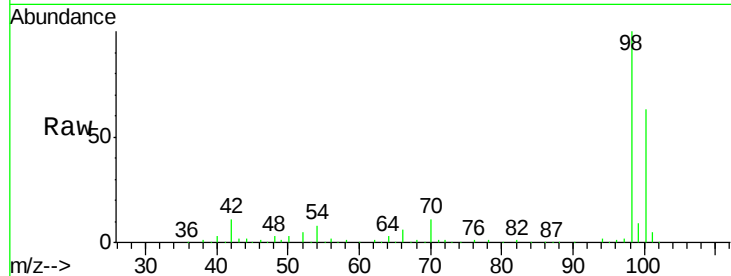
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 4139

Ion Ratio Lower Upper

43 100

58 49.9 33.9 50.9



Abundance Ion 43.00 (42.70 to 43.70): VU028998.D (-1945) (-)

Ion 58.00 (57.70 to 58.70): VU028998.D (-1945) (-)

7.56

2500

2000

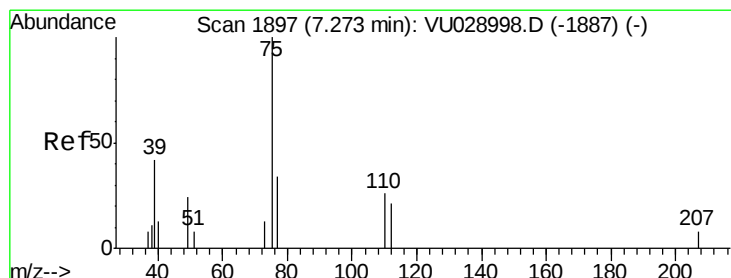
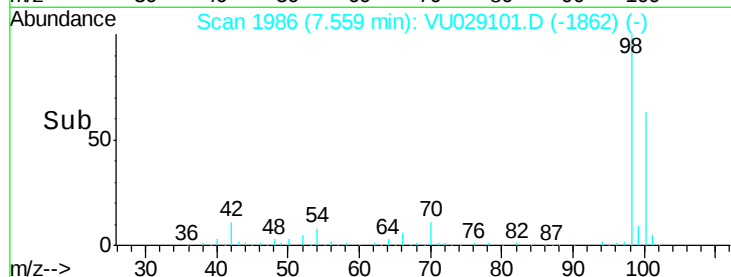
1500

1000

500

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 8.789 ug/l

RT: 7.42 min Scan# 1942

Delta R.T. 0.15 min

Lab File: VU029101.D

Acq: 09 Jan 2019 19:51

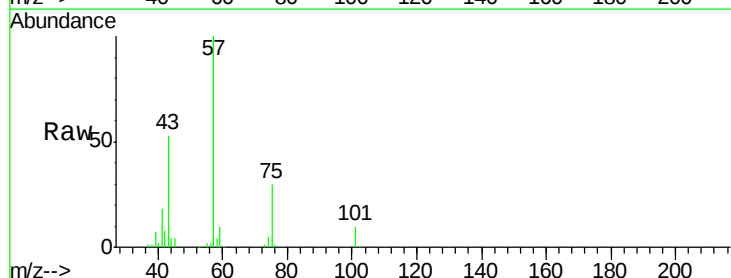
Tgt Ion: 75 Resp: 20501

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

39 24.6 32.2 48.4#



Abundance Ion 74.90 (74.60 to 75.60): VU028998.D (-1887) (-)

Ion 76.90 (76.60 to 77.60): VU028998.D (-1887) (-)

Ion 39.00 (38.70 to 39.70): VU028998.D (-1887) (-)

7.42

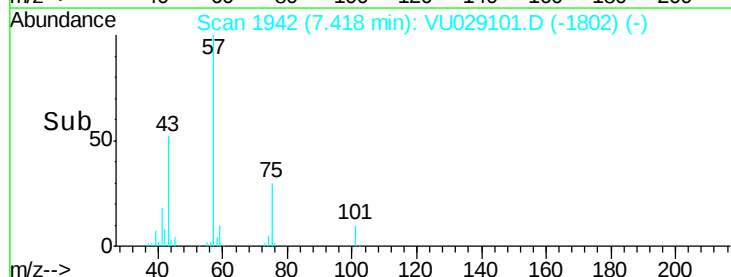
15000

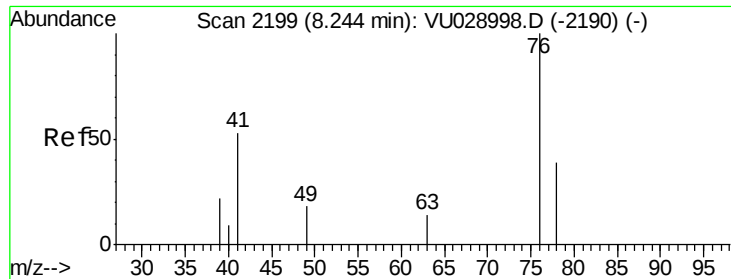
10000

5000

0

Time-->

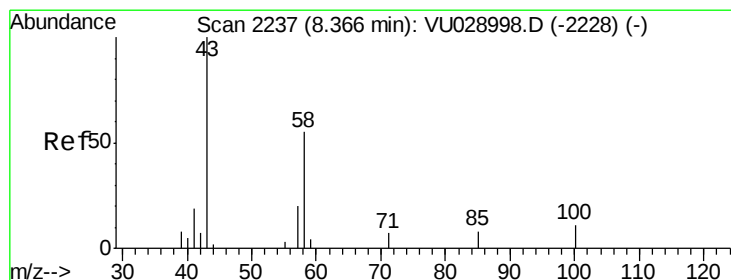
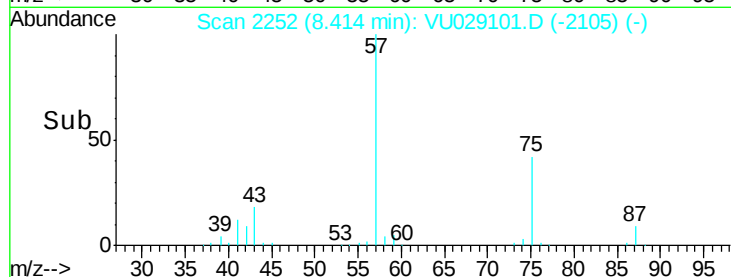
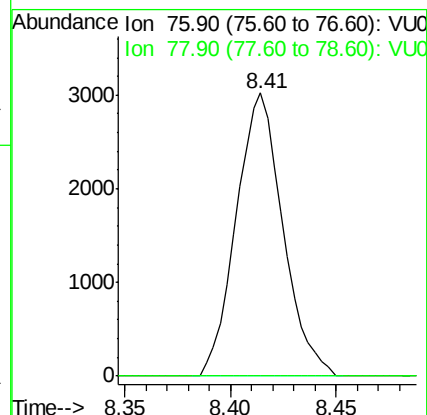
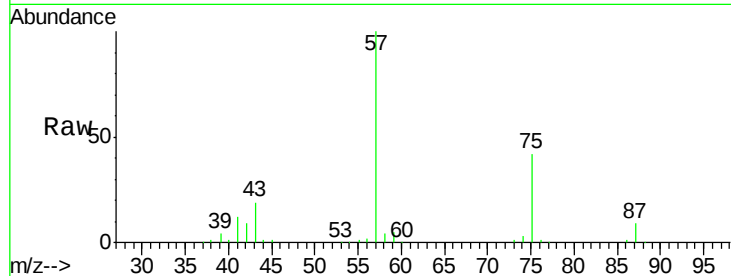




#57
 1,3-Dichloropropane
 Concen: 1.928 ug/l
 RT: 8.41 min Scan# 2252
 Delta R.T. 0.17 min
 Lab File: VU029101.D
 Acq: 09 Jan 2019 19:51

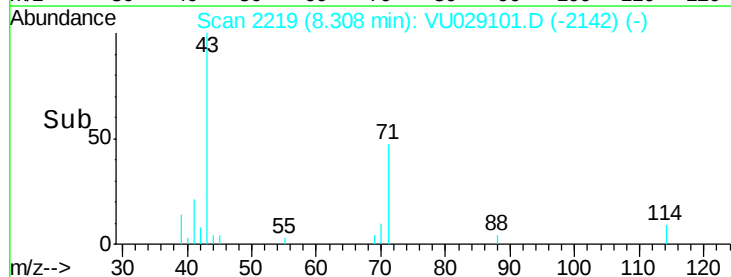
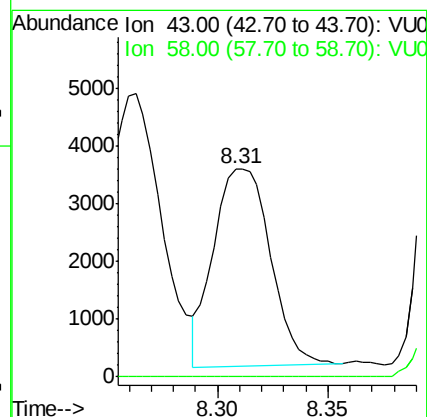
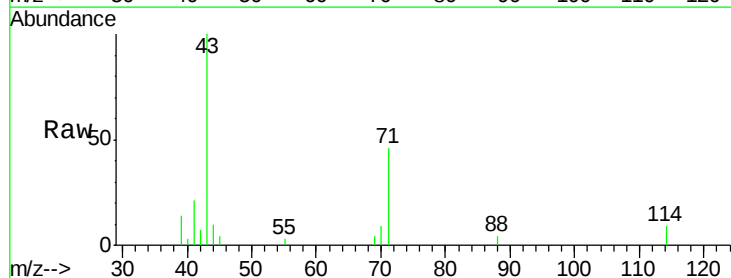
Instrument :
 MSVOA_U
 ClientSampleId :

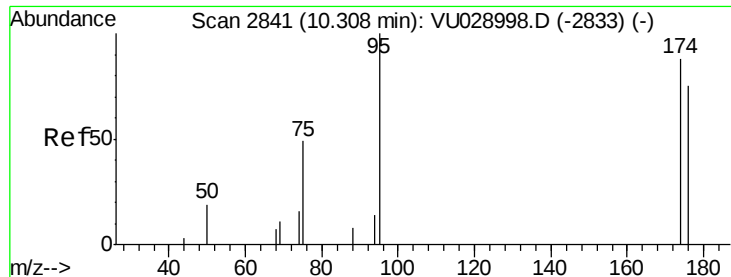
Tot Ion: 76 Resp: 4652
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.0 39.0#



#59
 2-Hexanone
 Concen: 3.664 ug/l
 RT: 8.31 min Scan# 2219
 Delta R.T. -0.05 min
 Lab File: VU029101.D
 Acq: 09 Jan 2019 19:51

Tgt Ion: 43 Resp: 6109
 Ion Ratio Lower Upper
 43 100
 58 0.0 29.8 89.4#

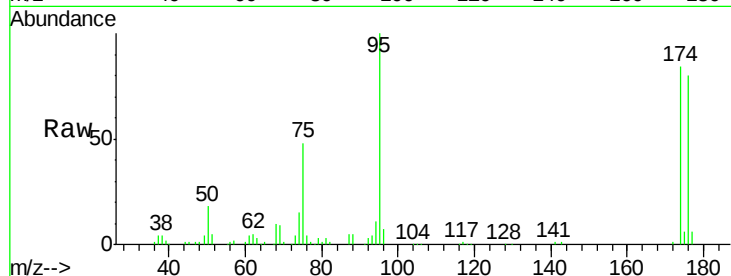




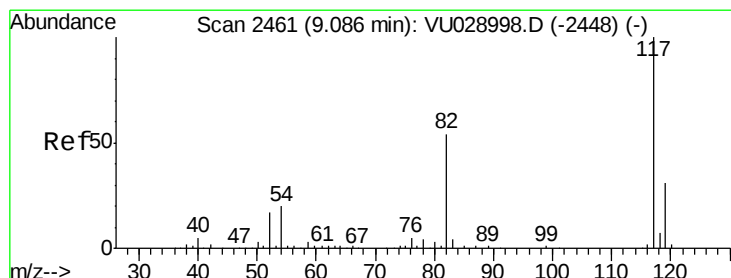
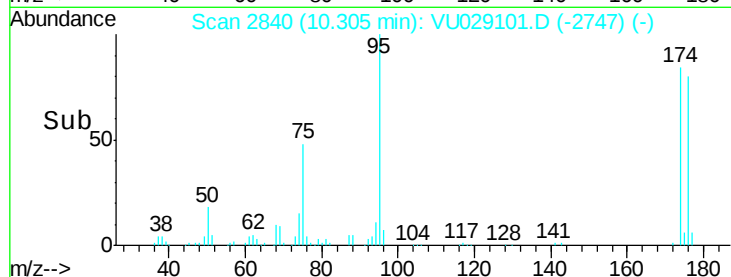
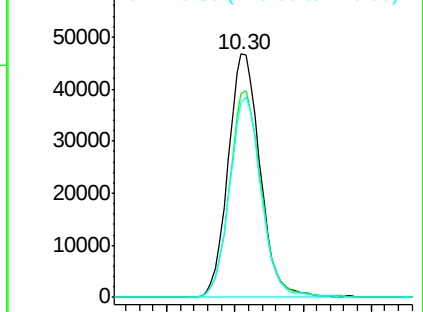
#62
4-Bromofluorobenzene
Concen: 44.666 ug/l
RT: 10.30 min Scan# 2840
Delta R.T. 0.00 min
Lab File: VU029101.D
Acq: 09 Jan 2019 19:51

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 95 Resp: 76178
Ion Ratio Lower Upper
95 100
174 84.4 0.0 170.6
176 81.7 0.0 165.0

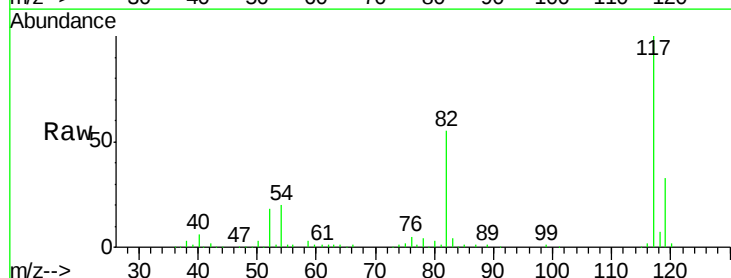


Abundance Ion 94.90 (94.60 to 95.60): VU028998.D (-2833) (-)
Ion 173.80 (173.50 to 174.50): VU028998.D (-2833) (-)
Ion 175.80 (175.50 to 176.50): VU028998.D (-2833) (-)

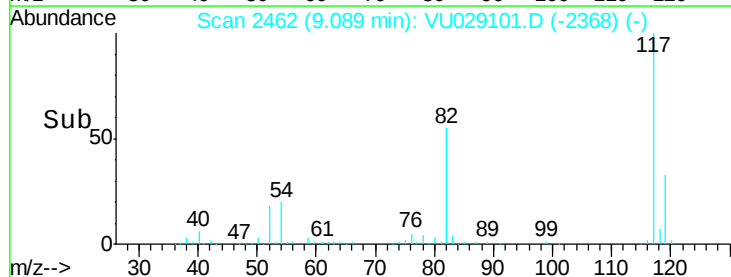
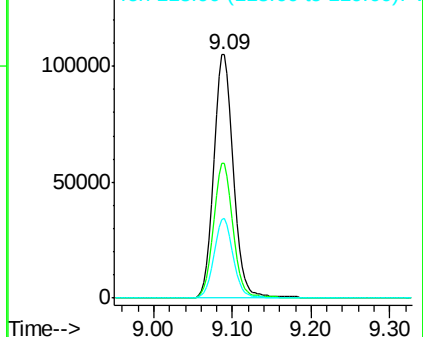


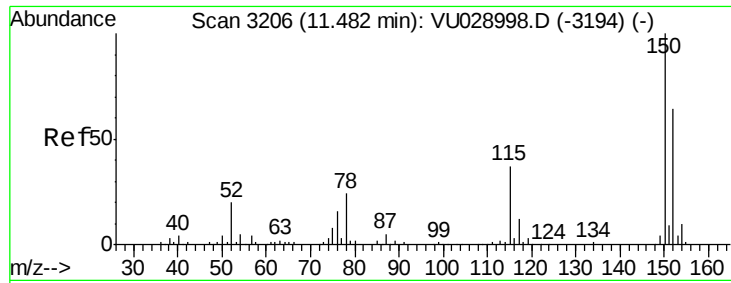
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. 0.00 min
Lab File: VU029101.D
Acq: 09 Jan 2019 19:51

Tgt Ion: 117 Resp: 180174
Ion Ratio Lower Upper
117 100
82 55.3 43.9 65.9
119 32.6 26.0 39.0



Abundance Ion 116.90 (116.60 to 117.60): VU028998.D (-2448) (-)
Ion 82.00 (81.70 to 82.70): VU028998.D (-2448) (-)
Ion 118.90 (118.60 to 119.60): VU028998.D (-2448) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3206

Delta R.T. 0.00 min

Lab File: VU029101.D

Acq: 09 Jan 2019 19:51

Instrument :

MSVOA_U

ClientSampleId :

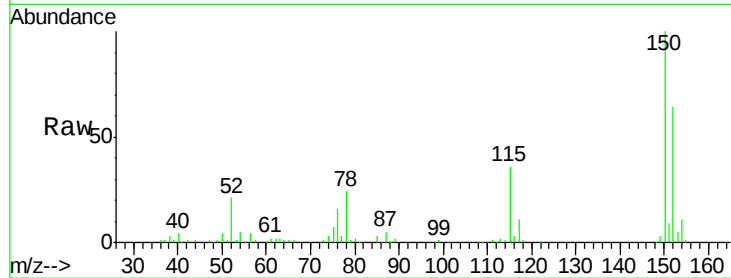
Tot Ion:152 Resp: 70634

Ion Ratio Lower Upper

152 100

115 57.8 40.1 120.3

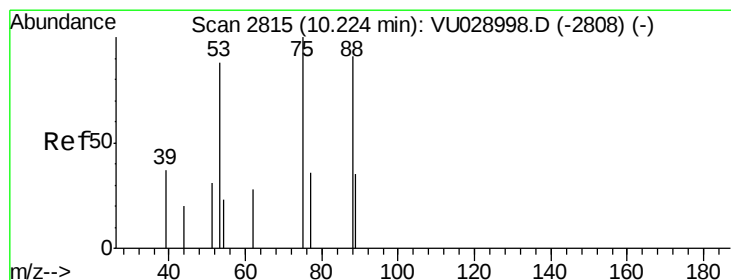
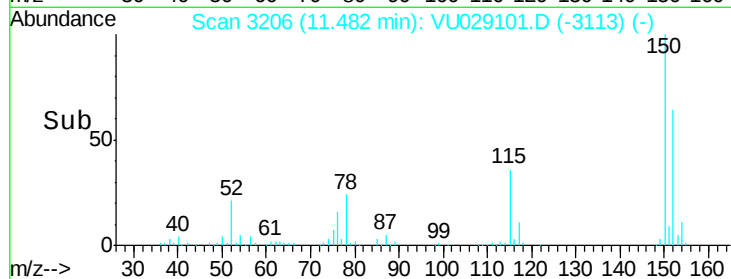
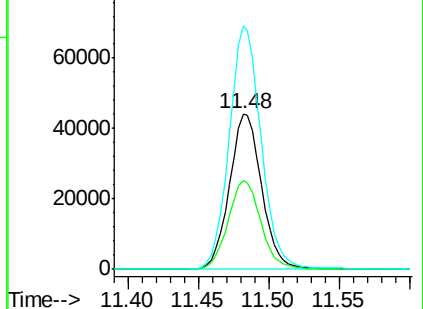
150 155.5 0.0 345.2



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: 21.196 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU029101.D

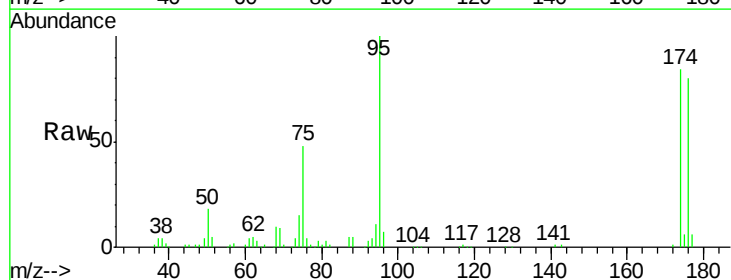
Acq: 09 Jan 2019 19:51

Tgt Ion: 75 Resp: 36683

Ion Ratio Lower Upper

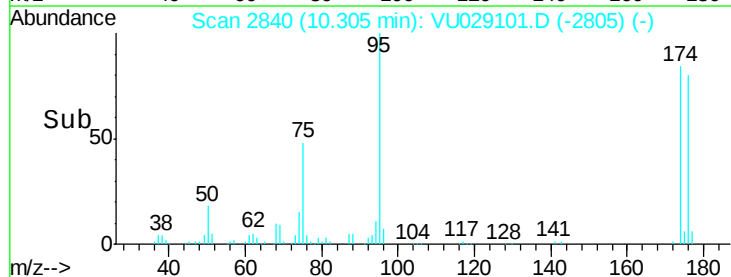
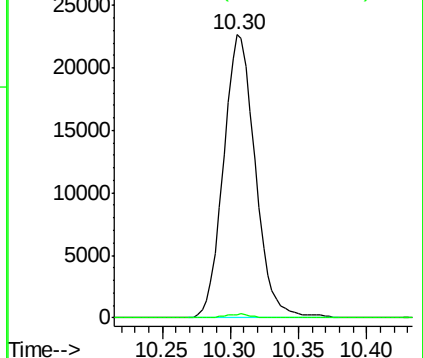
75 100

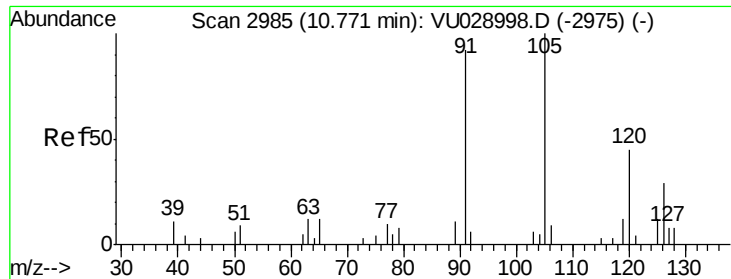
77 1.0 20.9 62.8#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0





#80

1,3,5-Trimethylbenzene

Concen: 0.666 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. 0.00 min

Lab File: VU029101.D

Acq: 09 Jan 2019 19:51

Instrument :

MSVOA_U

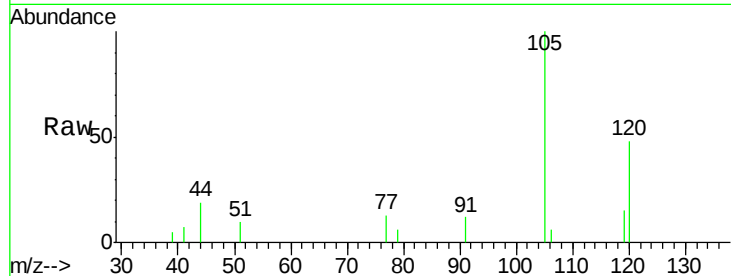
ClientSampled :

Tot Ion:105 Resp: 2909

Ion Ratio Lower Upper

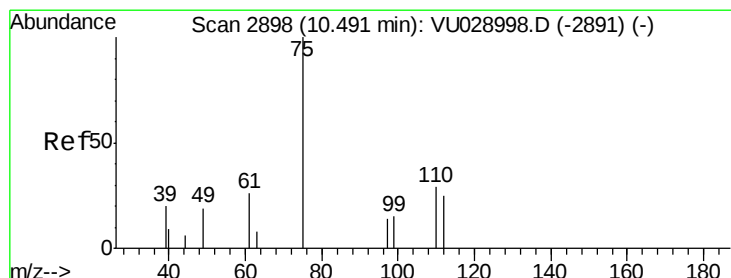
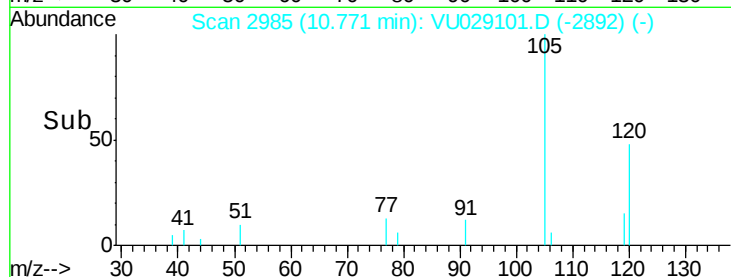
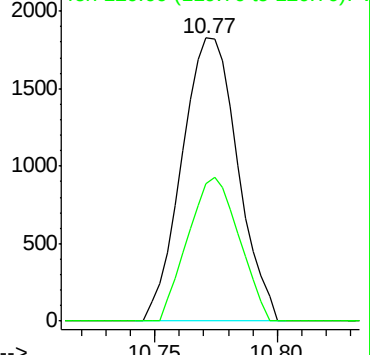
105 100

120 46.2 24.8 74.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 54.666 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU029101.D

Acq: 09 Jan 2019 19:51

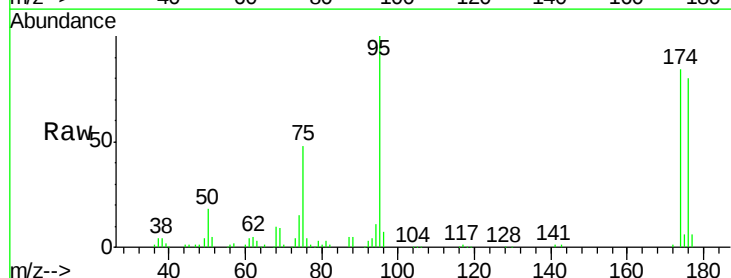
Tgt Ion: 75 Resp: 36683

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

