

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010919\
 Data File : VU029100.D
 Acq On : 09 Jan 2019 19:27
 Operator : MD/SY
 Sample : PB116248ZHE#15
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 10 04:08:13 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	107136	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	186570	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	178347	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	70588	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	75263	56.83	ug/l	0.00
Spiked Amount			Recovery	=	113.66%	
35) Dibromofluoromethane	4.88	113	64279	53.15	ug/l	0.00
Spiked Amount			Recovery	=	106.30%	
50) Toluene-d8	7.56	98	243553	51.01	ug/l	0.00
Spiked Amount			Recovery	=	102.02%	
62) 4-Bromofluorobenzene	10.31	95	76206	44.41	ug/l	0.00
Spiked Amount			Recovery	=	88.82%	

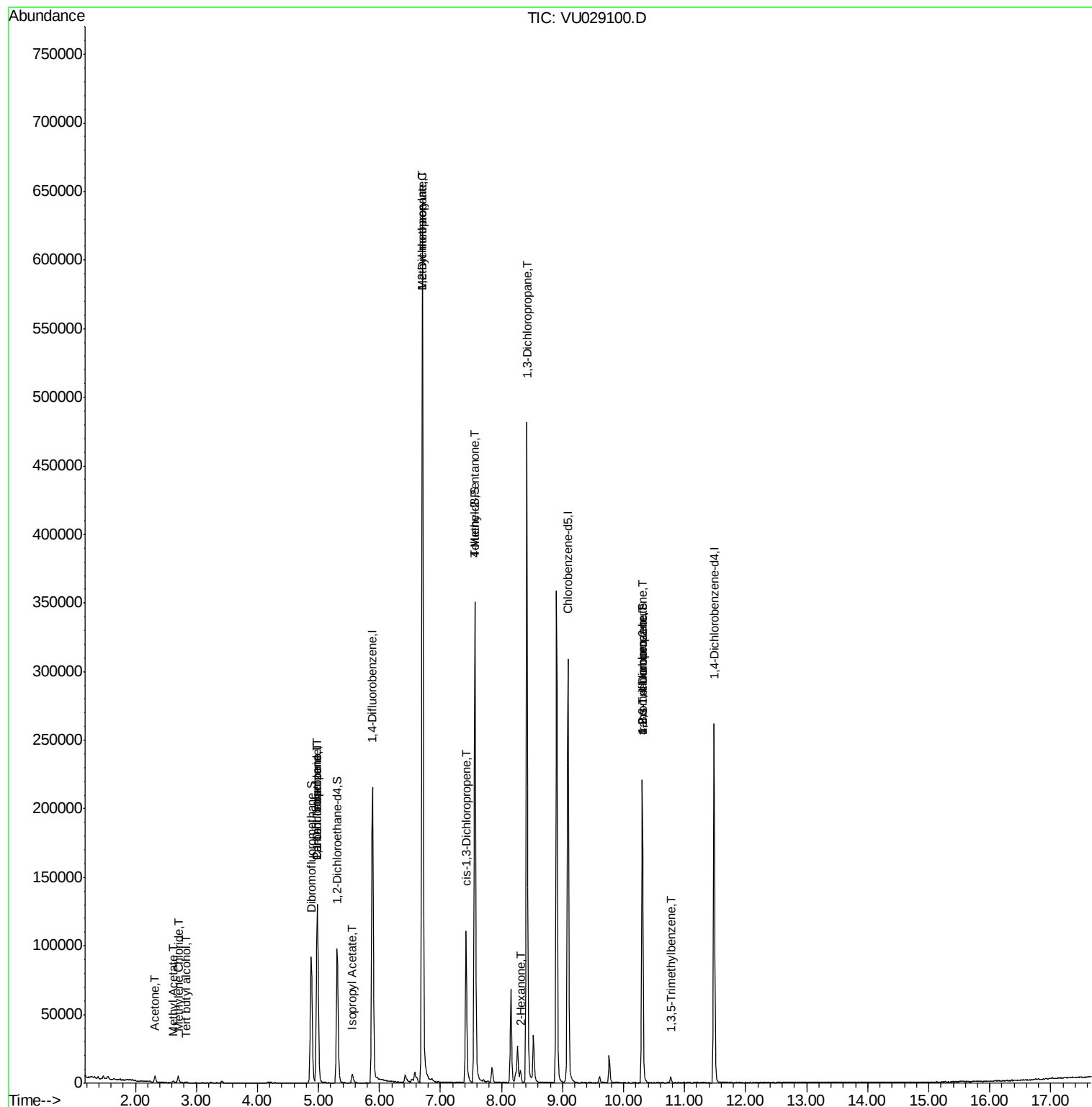
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	710	Below Cal		91
11) Tert butyl alcohol	2.83	59	272	0.808	ug/l #	73
16) Acetone	2.32	43	5618	6.734	ug/l	97
17) Carbon Disulfide	2.48	76	19	Below Cal	#	75
18) Methyl Acetate	2.62	43	1892	0.975	ug/l	92
20) Methylene Chloride	2.70	84	2226	1.571	ug/l	95
31) Cyclohexane	4.98	56	1862	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	7767	4.165	ug/l #	46
38) Carbon Tetrachloride	4.98	117	9695	6.233	ug/l #	17
43) Isopropyl Acetate	5.55	43	8066	2.569	ug/l	97
45) 1,2-Dichloropropane	6.69	63	347	0.226	ug/l #	43
48) Methyl methacrylate	6.70	41	53453	34.960	ug/l #	37
51) 4-Methyl-2-Pentanone	7.56	43	3772	1.765	ug/l	89
54) cis-1,3-Dichloropropene	7.42	75	21044	8.967	ug/l #	61
57) 1,3-Dichloropropane	8.41	76	4584	1.888	ug/l #	42
59) 2-Hexanone	8.31	43	6741	4.019	ug/l #	21
76) 1,2,3-Trichloropropane	10.30	75	35568	20.565	ug/l #	36
80) 1,3,5-Trimethylbenzene	10.77	105	2897	0.664	ug/l	96
81) trans-1,4-Dichloro-2-buten	10.30	75	35568	53.039	ug/l #	100

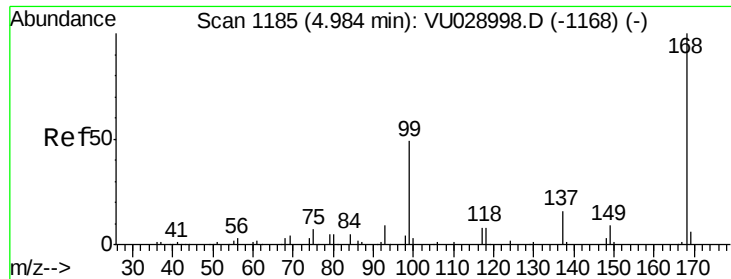
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU029100.D

Acq: 09 Jan 2019 19:27

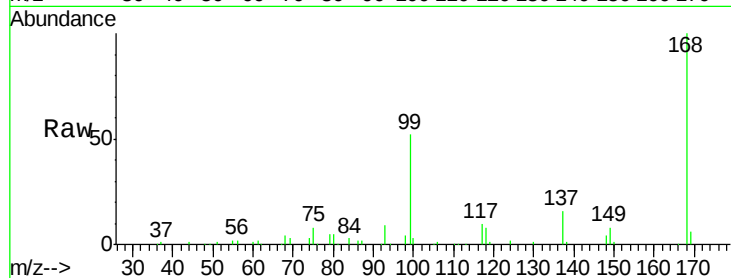
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 107136

Ion Ratio Lower Upper

168 100

99 52.0 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

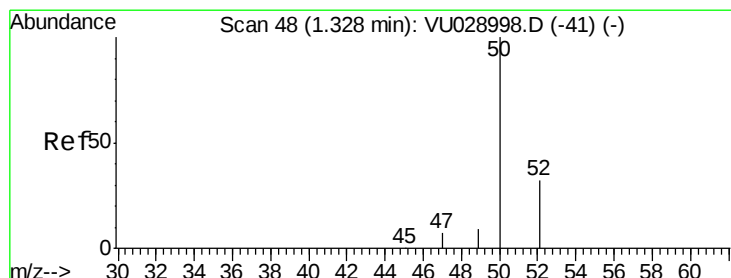
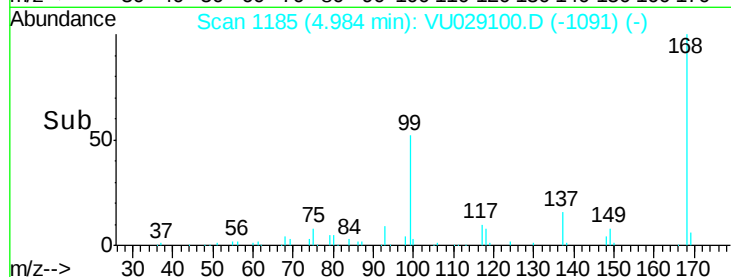
0

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: VU029100.D

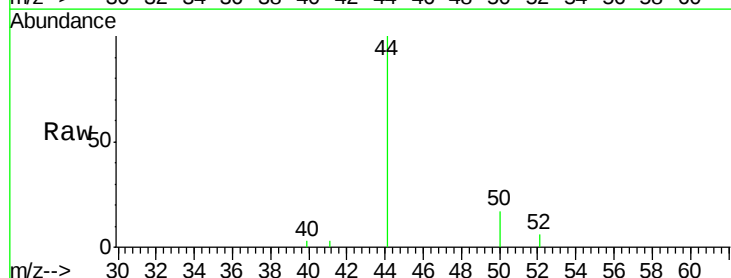
Acq: 09 Jan 2019 19:27

Tgt Ion: 50 Resp: 710

Ion Ratio Lower Upper

50 100

52 37.6 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

400

200

0

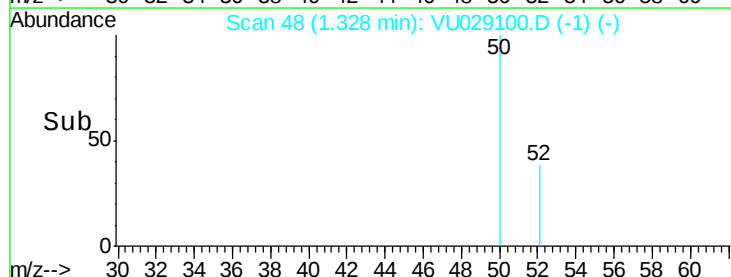
1.30

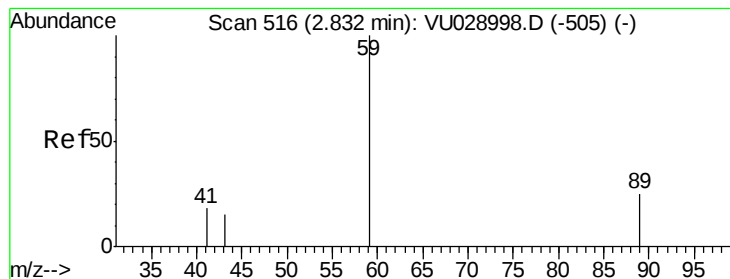
1.32

1.34

1.36

Time-->



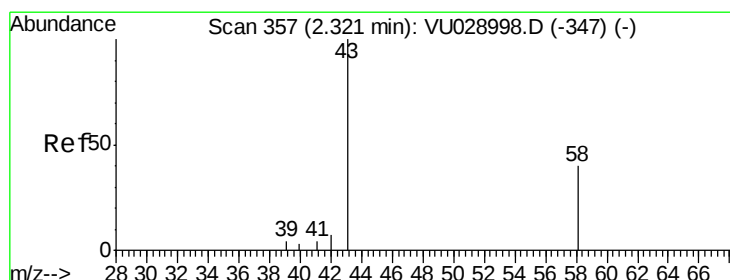
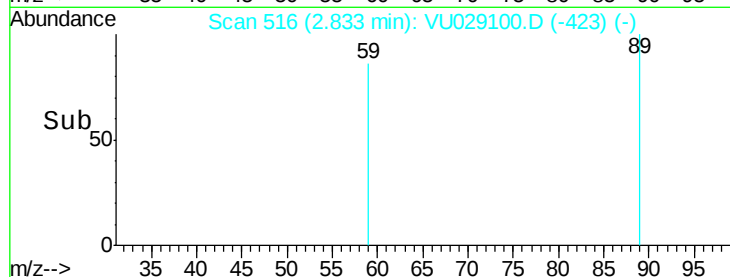
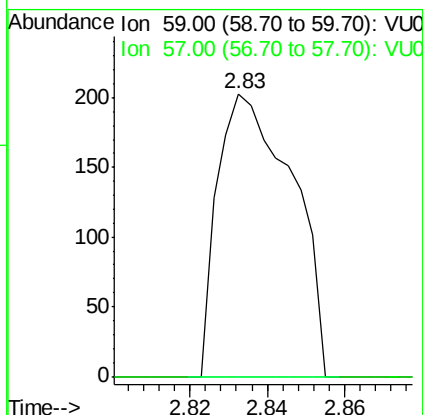
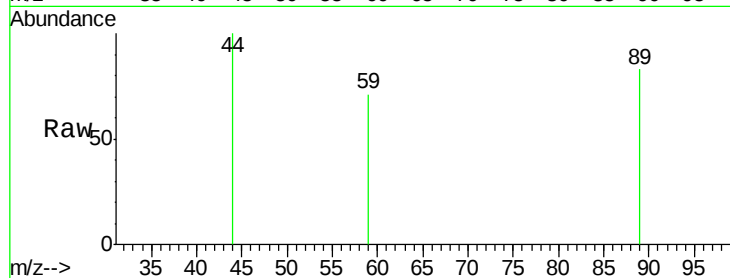


#11

Tert butyl alcohol
 Concen: 0.808 ug/l
 RT: 2.83 min Scan# 516
 Delta R.T. 0.00 min
 Lab File: VU029100.D
 Acq: 09 Jan 2019 19:27

Instrument :
 MSVOA_U
 ClientSampleId :

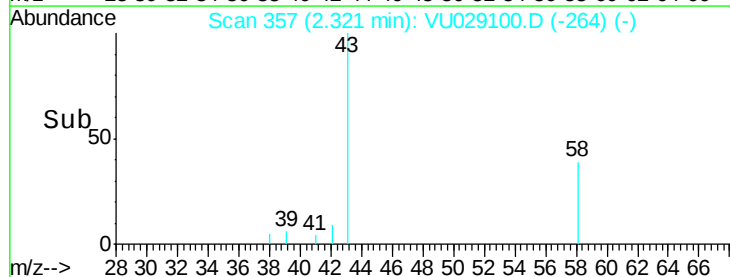
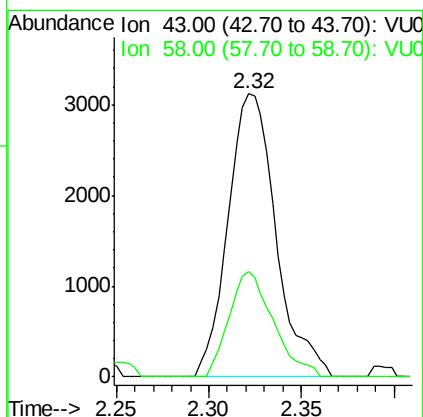
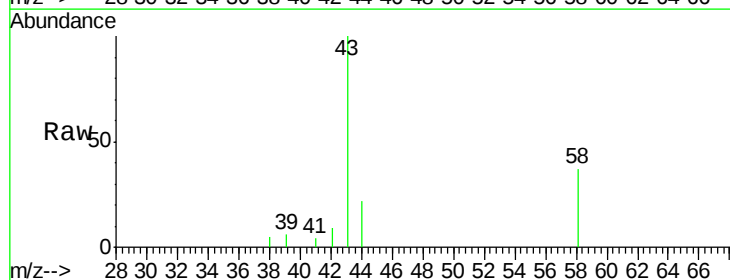
Tot Ion: 59 Resp: 272
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.9 11.9#

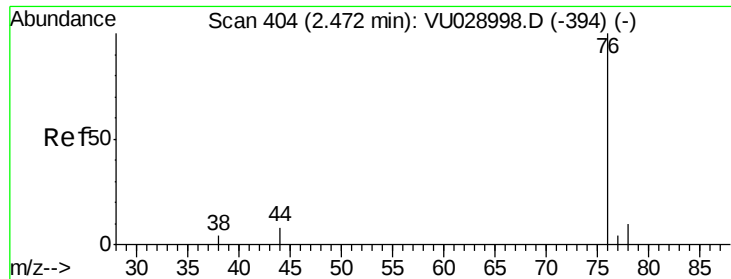


#16

Acetone
 Concen: 6.734 ug/l
 RT: 2.32 min Scan# 357
 Delta R.T. 0.00 min
 Lab File: VU029100.D
 Acq: 09 Jan 2019 19:27

Tgt Ion: 43 Resp: 5618
 Ion Ratio Lower Upper
 43 100
 58 37.4 28.6 42.8

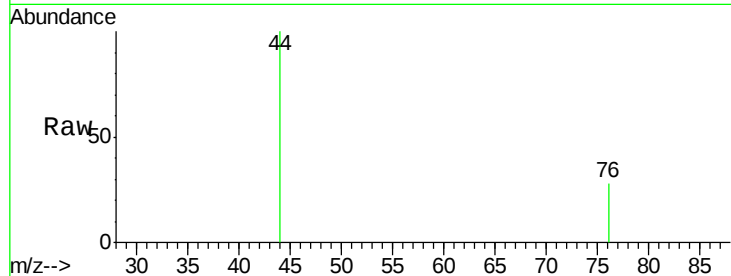




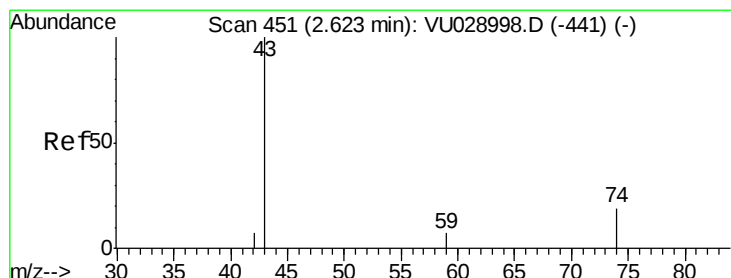
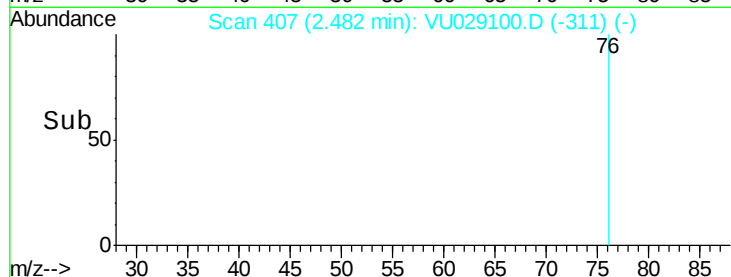
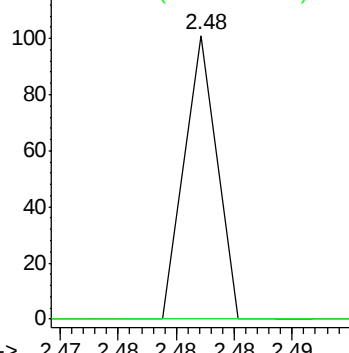
#17
Carbon Disulfide
Concen: Below Cal
RT: 2.48 min Scan# 407
Delta R.T. 0.01 min
Lab File: VU029100.D
Acq: 09 Jan 2019 19:27

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 76 Resp: 19
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#

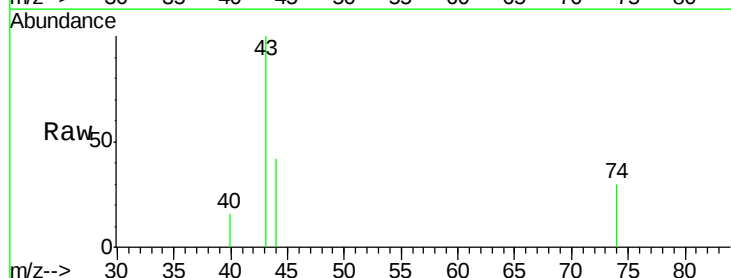


Abundance Ion 75.90 (75.60 to 76.60): VU028998.D (-394) (-)
Ion 77.90 (77.60 to 78.60): VU028998.D (-394) (-)

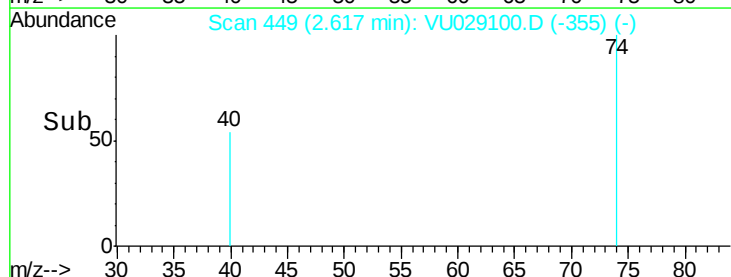
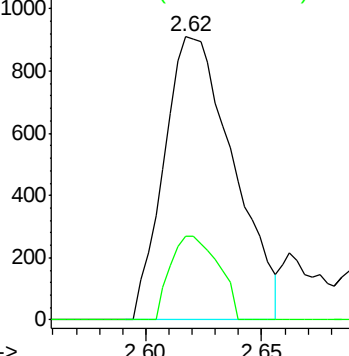


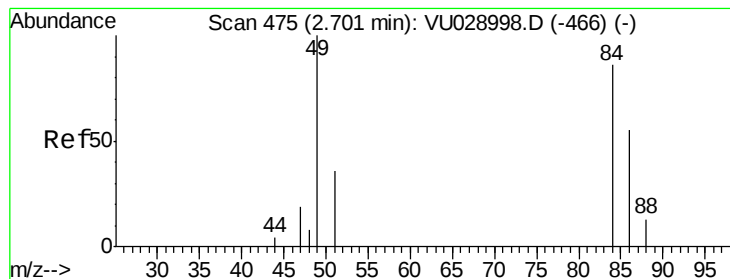
#18
Methyl Acetate
Concen: 0.975 ug/l
RT: 2.62 min Scan# 449
Delta R.T. 0.00 min
Lab File: VU029100.D
Acq: 09 Jan 2019 19:27

Tgt Ion: 43 Resp: 1892
Ion Ratio Lower Upper
43 100
74 20.4 19.5 29.3



Abundance Ion 43.00 (42.70 to 43.70): VU028998.D (-441) (-)
Ion 74.00 (73.70 to 74.70): VU028998.D (-441) (-)





#20

Methvlene Chloride

Concen: 1.571 ug/l

RT: 2.70 min Scan# 476

Delta R.T. 0.01 min

Lab File: VU029100.D

Acq: 09 Jan 2019 19:27

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 84 Resp: 2226

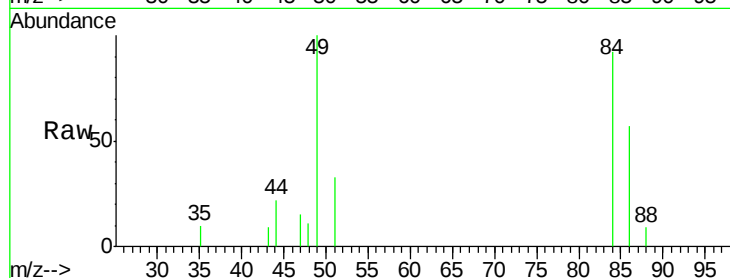
Ion Ratio Lower Upper

84 100

49 108.4 91.9 137.9

51 36.0 29.2 43.8

86 61.3 51.8 77.6

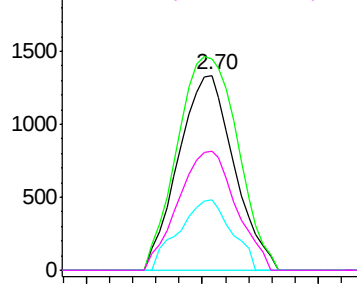


Abundance Ion 83.90 (83.60 to 84.60): VU0

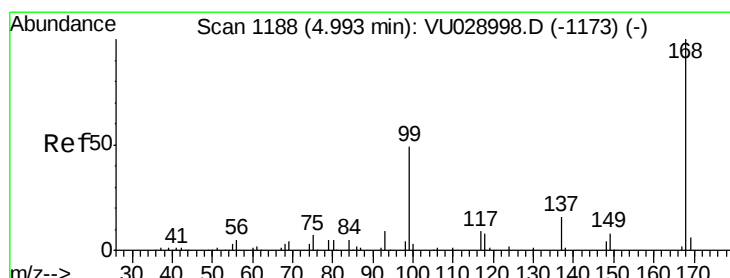
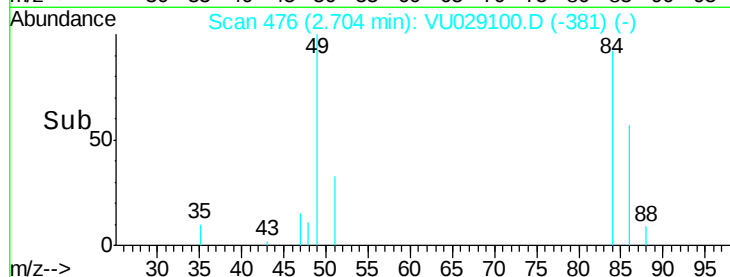
Ion 48.90 (48.60 to 49.60): VU0

Ion 50.90 (50.60 to 51.60): VU0

Ion 85.90 (85.60 to 86.60): VU0



Time--> 2.65 2.70 2.75



#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1183

Delta R.T. -0.02 min

Lab File: VU029100.D

Acq: 09 Jan 2019 19:27

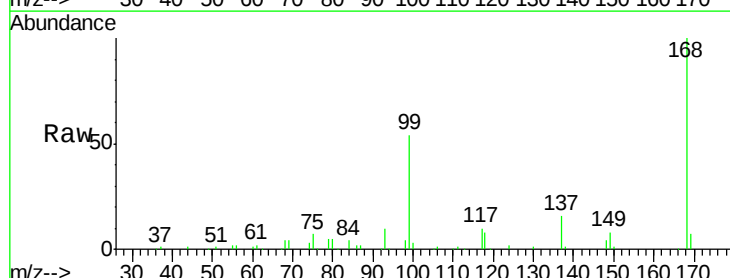
Tgt Ion: 56 Resp: 1862

Ion Ratio Lower Upper

56 100

69 171.9 26.7 40.1#

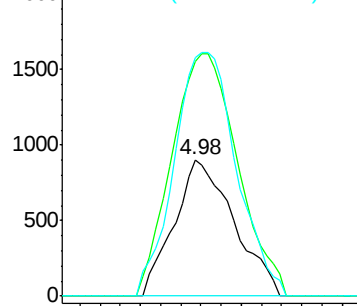
84 174.8 65.7 98.5#



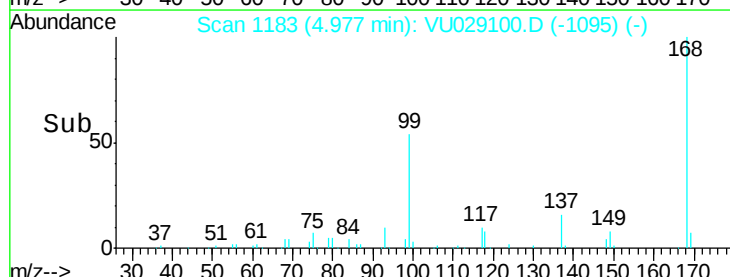
Abundance Ion 56.00 (55.70 to 56.70): VU0

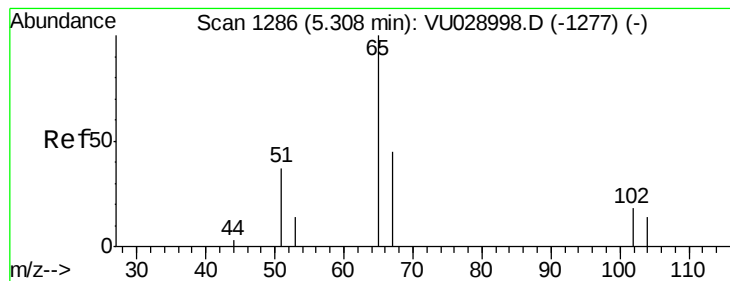
Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0



Time--> 4.95 5.00





#33

1,2-Dichloroethane-d4

Concen: 56.828 ug/l

RT: 5.31 min Scan# 1286

Delta R.T. 0.00 min

Lab File: VU029100.D

Acq: 09 Jan 2019 19:27

Instrument :

MSVOA_U

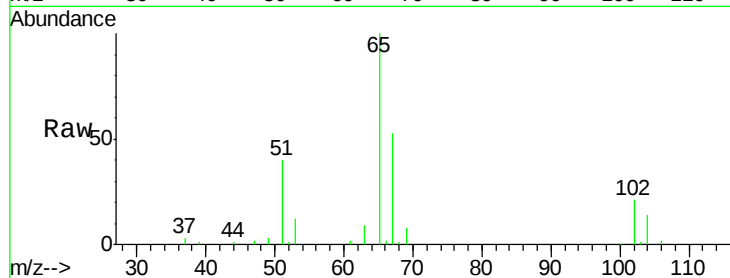
ClientSampleId :

Tot Ion: 65 Resp: 75263

Ion Ratio Lower Upper

65 100

67 54.7 0.0 111.0



Abundance Ion 64.90 (64.60 to 65.60): VU029100.D (-1192) (-)

Ion 66.90 (66.60 to 67.60): VU029100.D (-1192) (-)

5.31

40000

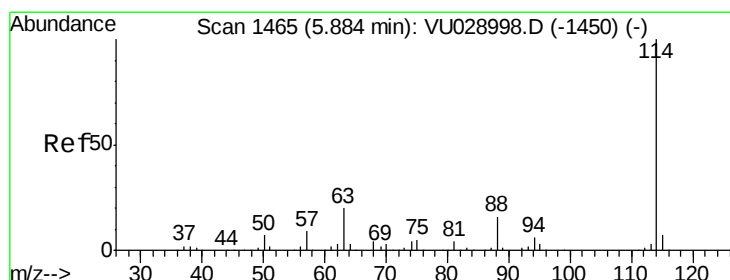
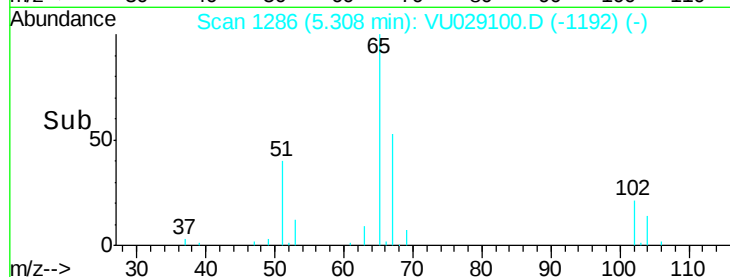
30000

20000

10000

0

Time--> 5.20 5.30 5.40



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.88 min Scan# 1465

Delta R.T. 0.00 min

Lab File: VU029100.D

Acq: 09 Jan 2019 19:27

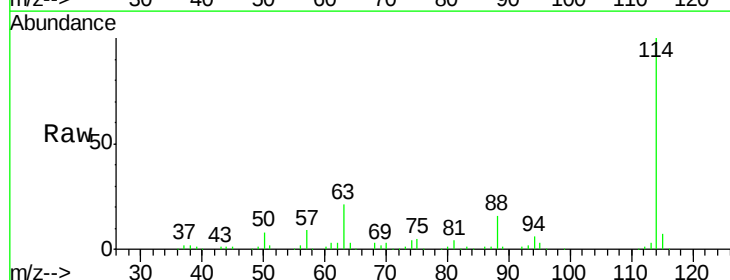
Tgt Ion: 114 Resp: 186570

Ion Ratio Lower Upper

114 100

63 21.5 0.0 40.2

88 15.7 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): VU029100.D (-1372) (-)

Ion 63.00 (62.70 to 63.70): VU029100.D (-1372) (-)

Ion 87.90 (87.60 to 88.60): VU029100.D (-1372) (-)

5.88

120000

100000

80000

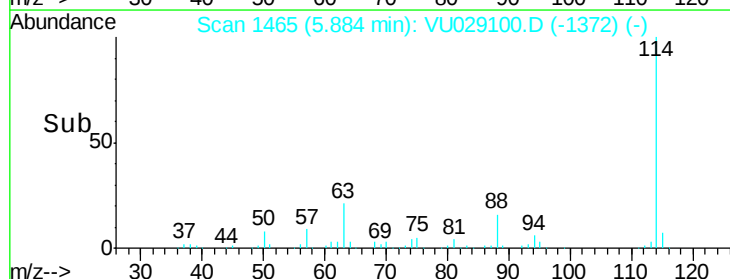
60000

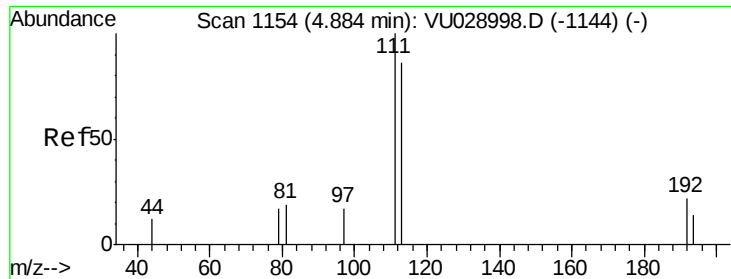
40000

20000

0

Time--> 5.80 5.90 6.00





#35

Dibromofluoromethane

Concen: 53.149 ug/l

RT: 4.88 min Scan# 1153

Delta R.T. 0.00 min

Lab File: VU029100.D

Acq: 09 Jan 2019 19:27

Instrument :
MSVOA_U
ClientSampleId :

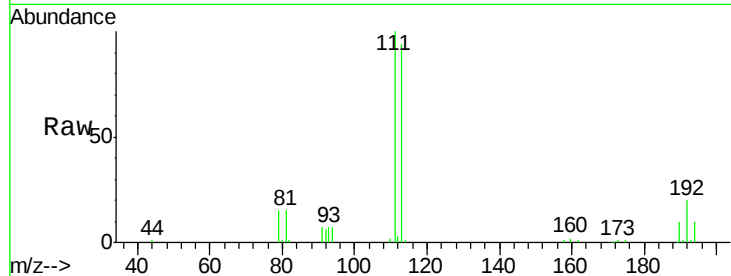
Tot Ion:113 Resp: 64279

Ion Ratio Lower Upper

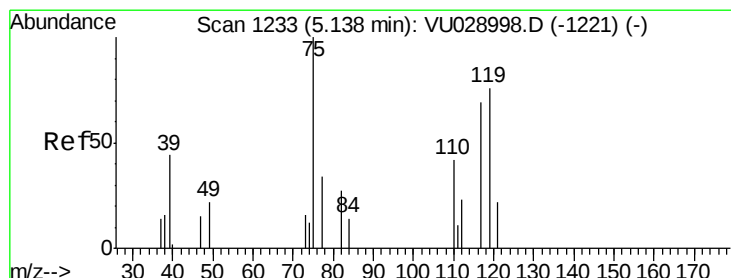
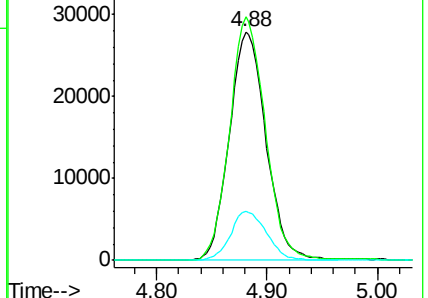
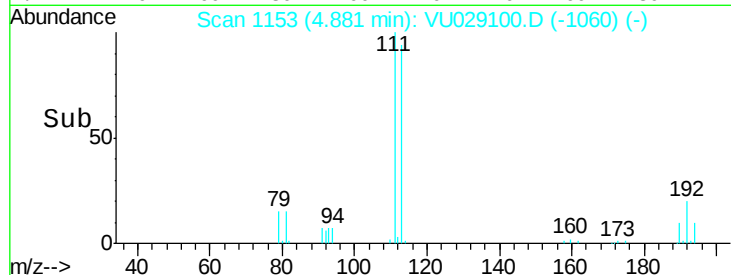
113 100

111 104.2 81.4 122.2

192 20.9 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: 4.165 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU029100.D

Acq: 09 Jan 2019 19:27

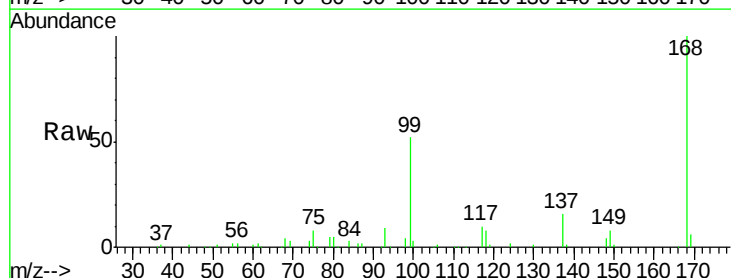
Tgt Ion: 75 Resp: 7767

Ion Ratio Lower Upper

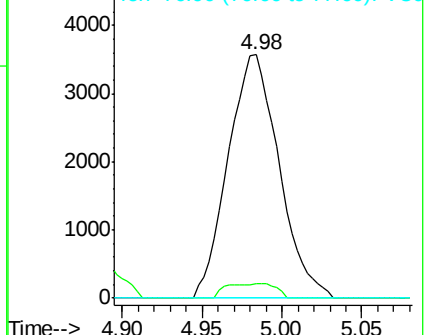
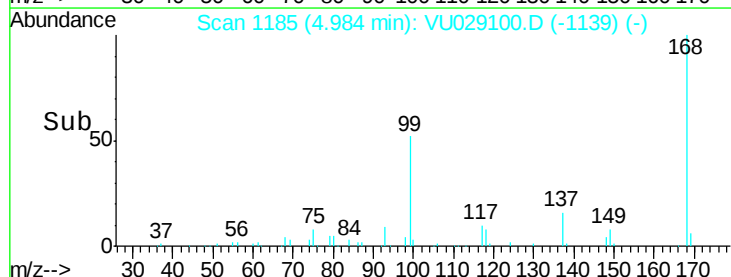
75 100

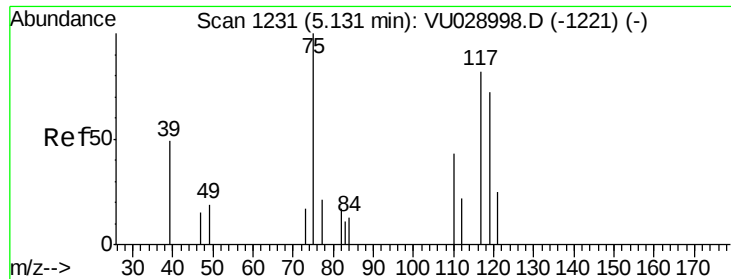
110 5.9 18.4 55.4#

77 0.0 25.1 37.7#



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: 6.233 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU029100.D

Acq: 09 Jan 2019 19:27

Instrument :

MSVOA_U

ClientSampleId :

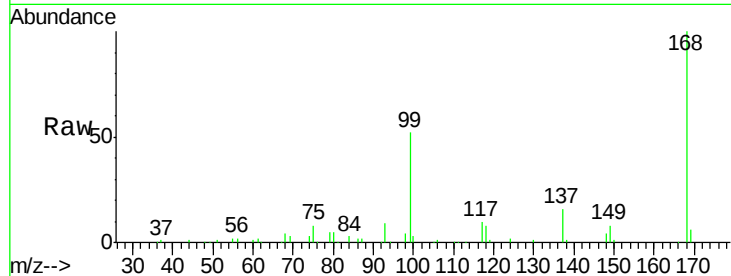
Tot Ion:117 Resp: 9695

Ion Ratio Lower Upper

117 100

119 5.3 74.6 111.8#

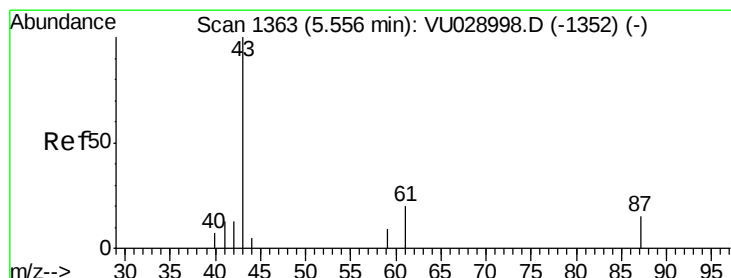
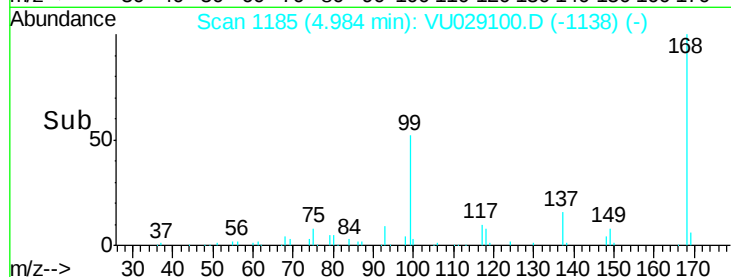
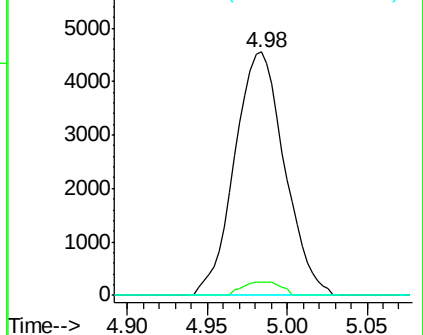
121 0.0 25.0 37.6#



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



#43

Isopropyl Acetate

Concen: 2.569 ug/l

RT: 5.55 min Scan# 1362

Delta R.T. 0.01 min

Lab File: VU029100.D

Acq: 09 Jan 2019 19:27

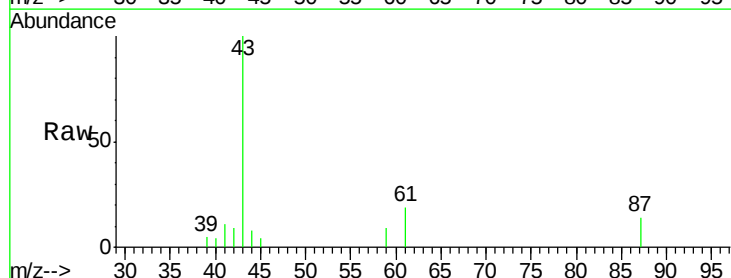
Tgt Ion: 43 Resp: 8066

Ion Ratio Lower Upper

43 100

61 20.4 17.8 26.6

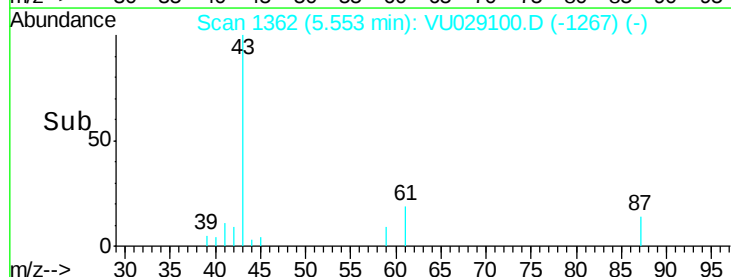
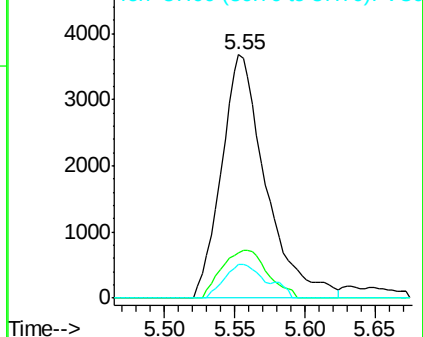
87 13.2 11.3 16.9

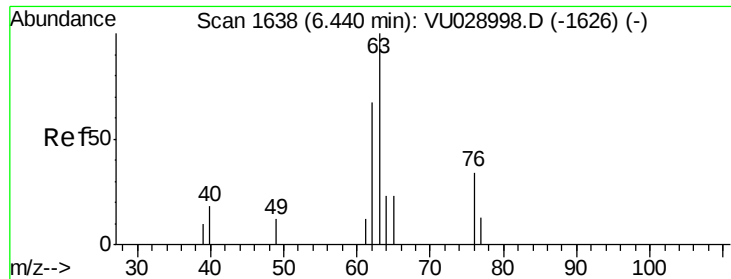


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0





#45

1,2-Dichloropropane

Concen: 0.226 ug/l

RT: 6.69 min Scan# 1717

Delta R.T. 0.26 min

Lab File: VU029100.D

Acq: 09 Jan 2019 19:27

Instrument :

MSVOA_U

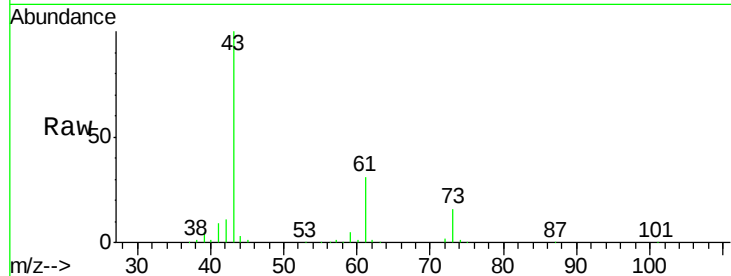
ClientSampleId :

Tot Ion: 63 Resp: 347

Ion Ratio Lower Upper

63 100

65 0.0 25.1 37.7#



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 64.90 (64.60 to 65.60): VU0

6.69

400

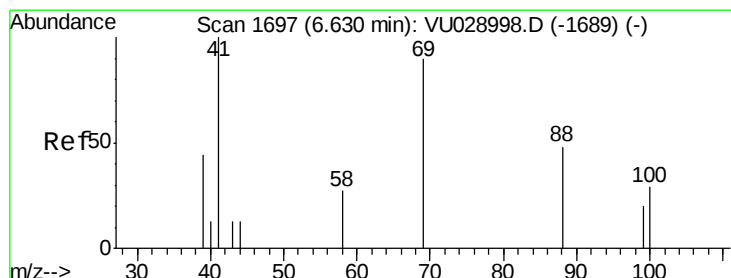
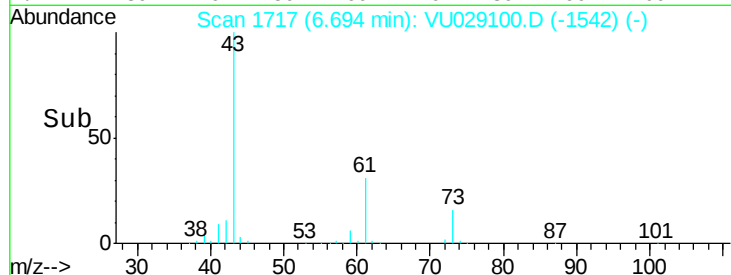
300

200

100

0

Time-->



#48

Methyl methacrylate

Concen: 34.960 ug/l

RT: 6.70 min Scan# 1720

Delta R.T. 0.08 min

Lab File: VU029100.D

Acq: 09 Jan 2019 19:27

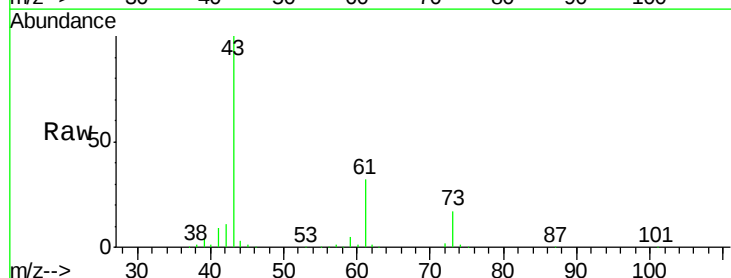
Tgt Ion: 41 Resp: 53453

Ion Ratio Lower Upper

41 100

69 0.0 73.6 110.4#

39 49.0 39.6 59.4



Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

6.70

40000

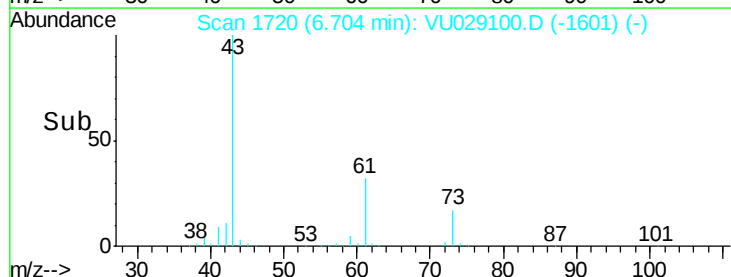
30000

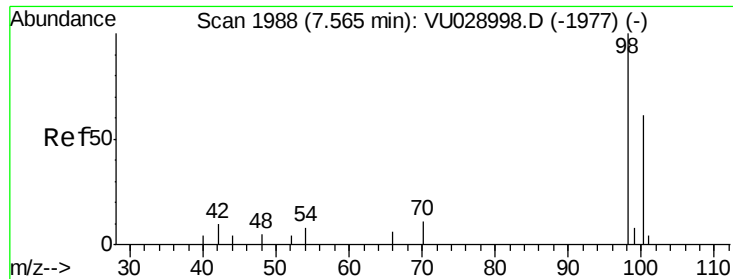
20000

10000

0

Time-->

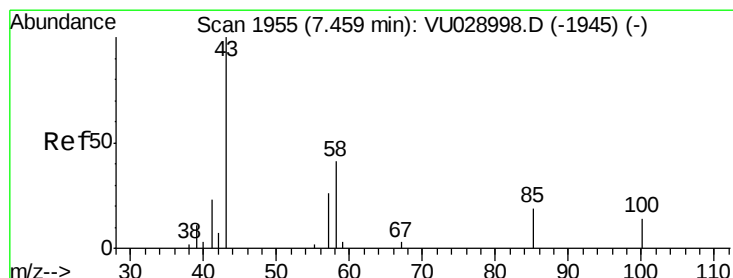
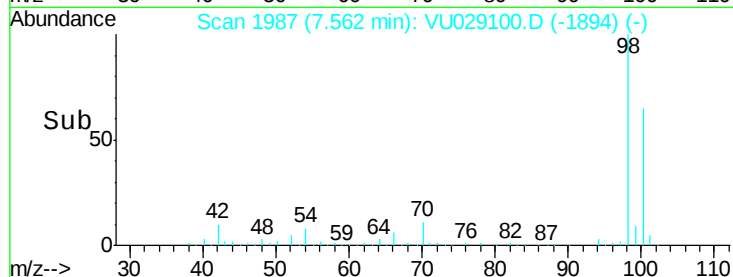
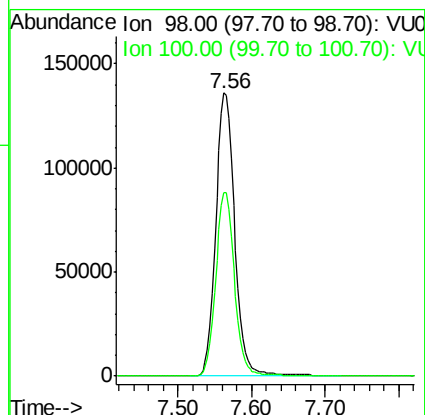
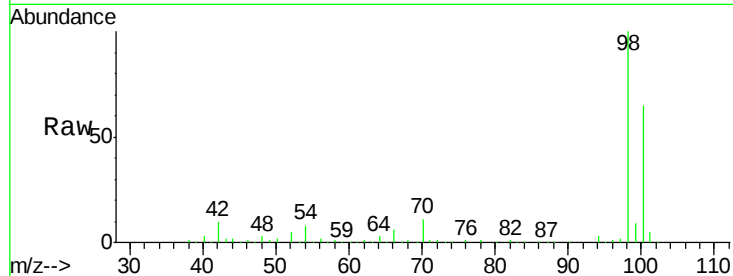




#50
Toluene-d8
Concen: 51.011 ug/l
RT: 7.56 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VU029100.D
Acq: 09 Jan 2019 19:27

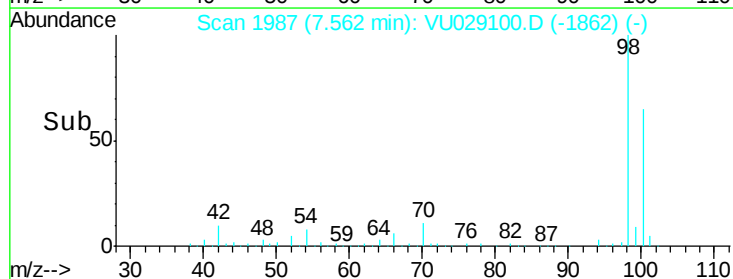
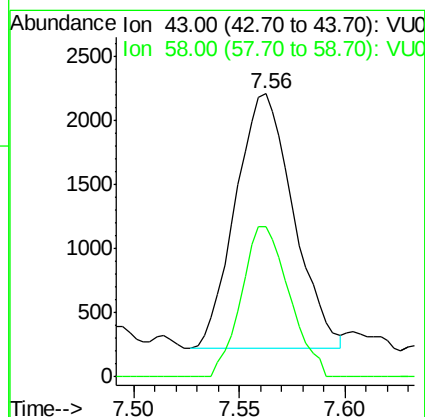
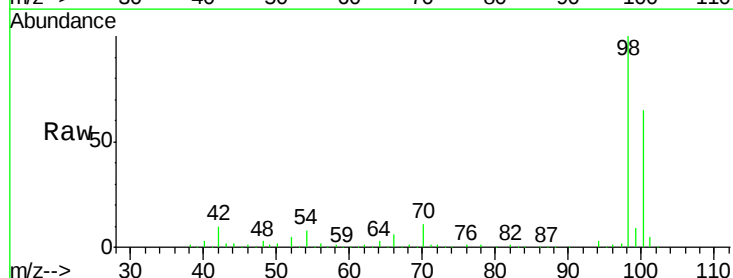
Instrument :
MSVOA_U
ClientSampled :

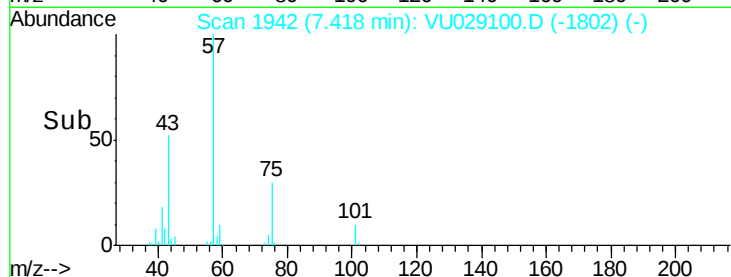
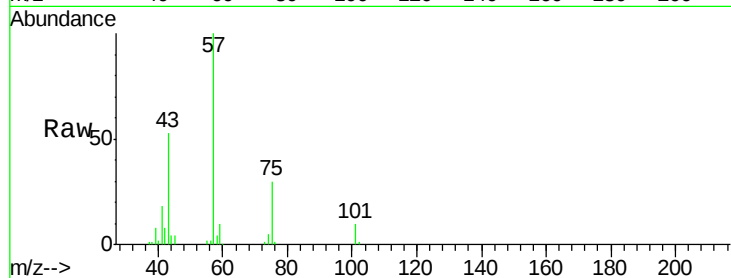
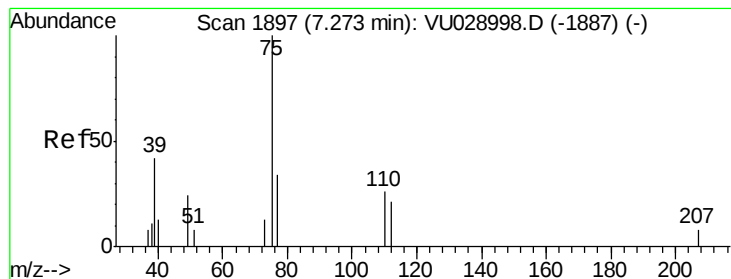
Tot Ion: 98 Resp: 243553
Ion Ratio Lower Upper
98 100
100 63.8 51.6 77.4



#51
4-Methyl-2-Pentanone
Concen: 1.765 ug/l
RT: 7.56 min Scan# 1987
Delta R.T. 0.10 min
Lab File: VU029100.D
Acq: 09 Jan 2019 19:27

Tgt Ion: 43 Resp: 3772
Ion Ratio Lower Upper
43 100
58 49.4 33.9 50.9





#54

cis-1,3-Dichloropropene

Concen: 8.967 ug/l

RT: 7.42 min Scan# 1942

Delta R.T. 0.15 min

Lab File: VU029100.D

Acq: 09 Jan 2019 19:27

Instrument :

MSVOA_U

ClientSampleId :

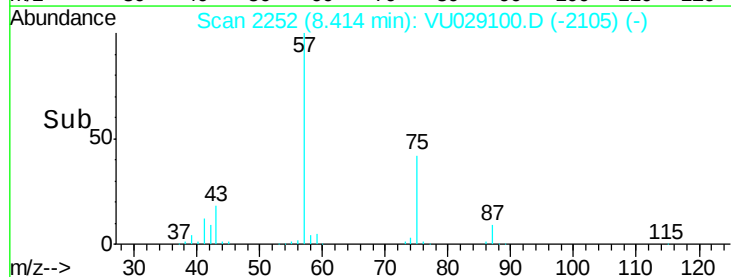
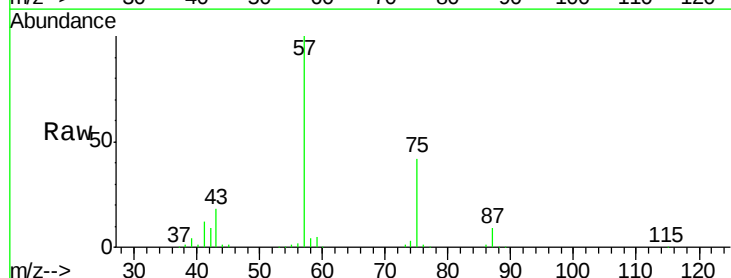
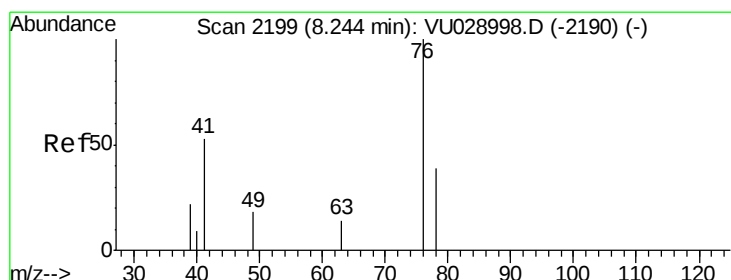
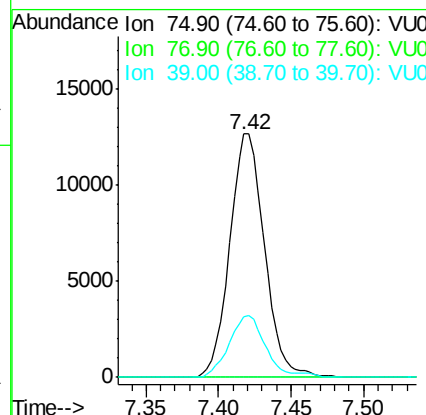
Tot Ion: 75 Resp: 21044

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

39 24.7 32.2 48.4#



#57

1,3-Dichloropropane

Concen: 1.888 ug/l

RT: 8.41 min Scan# 2252

Delta R.T. 0.17 min

Lab File: VU029100.D

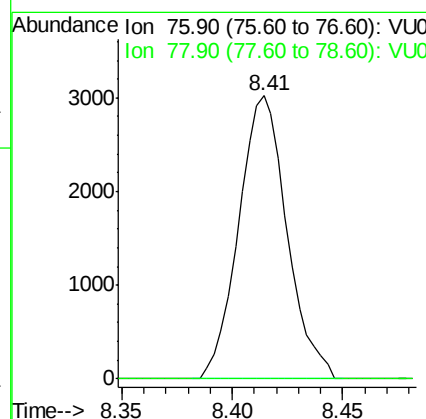
Acq: 09 Jan 2019 19:27

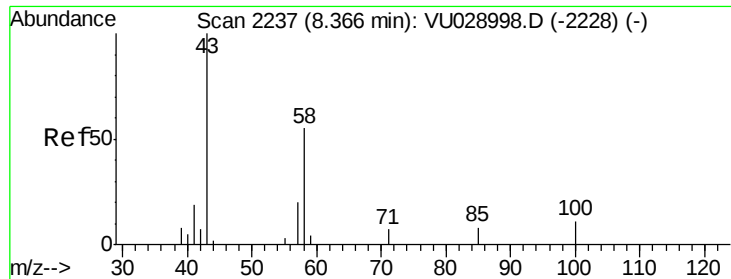
Tgt Ion: 76 Resp: 4584

Ion Ratio Lower Upper

76 100

78 0.0 26.0 39.0#

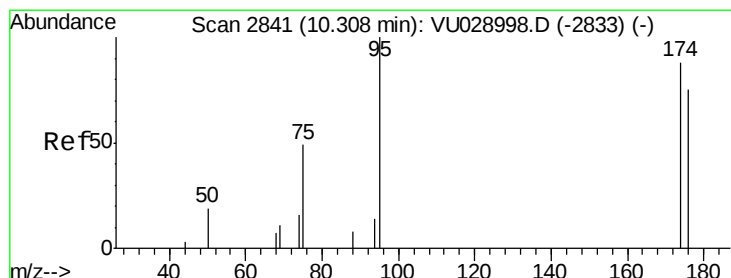
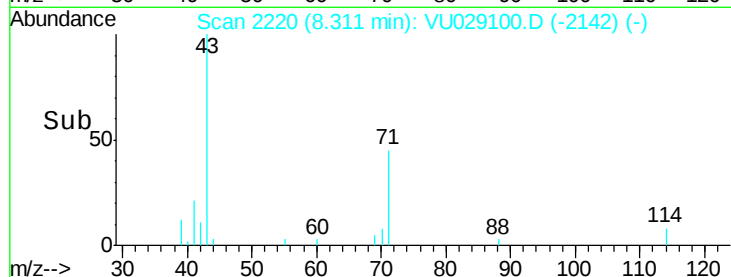
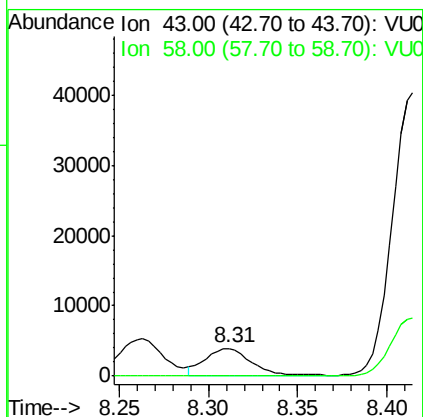
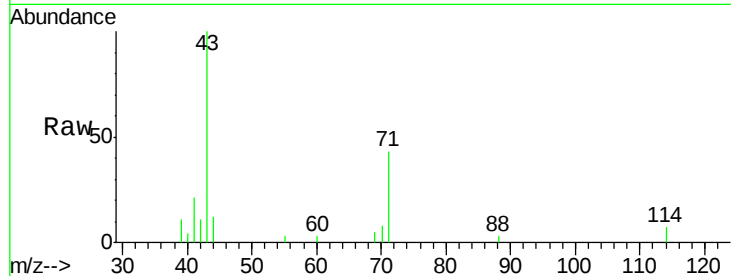




#59
2-Hexanone
Concen: 4.019 ug/l
RT: 8.31 min Scan# 2220
Delta R.T. -0.05 min
Lab File: VU029100.D
Acq: 09 Jan 2019 19:27

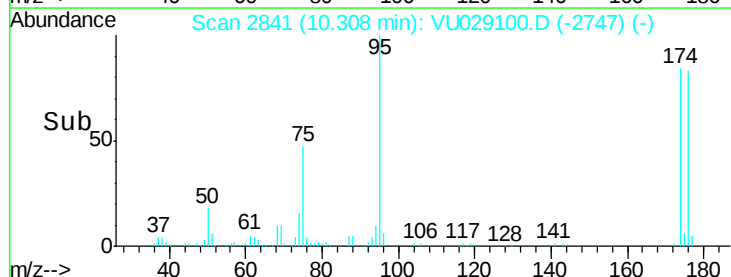
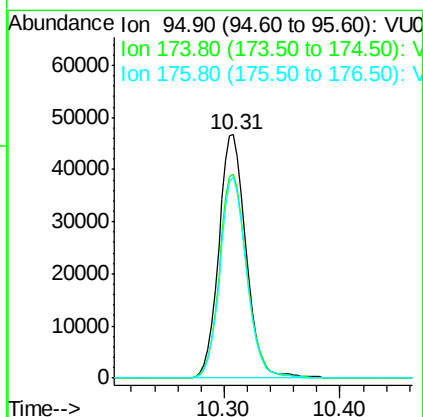
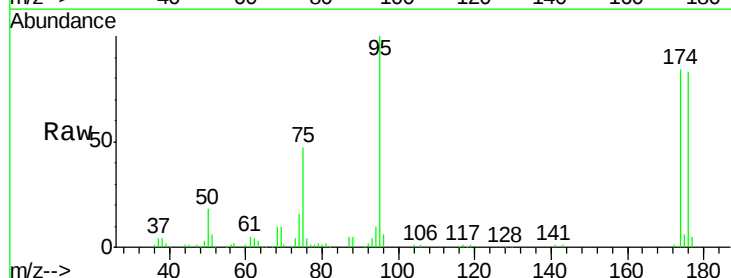
Instrument :
MSVOA_U
ClientSampleId :

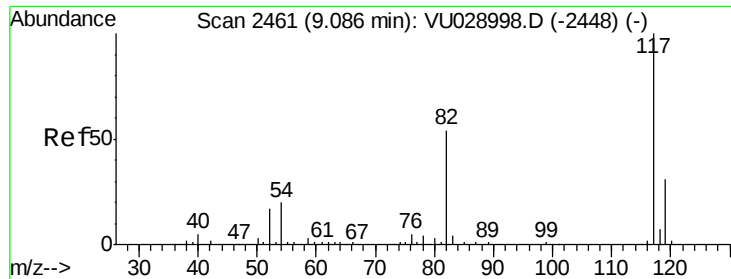
Tot Ion: 43 Resp: 6741
Ion Ratio Lower Upper
43 100
58 0.0 29.8 89.4#



#62
4-Bromofluorobenzene
Concen: 44.412 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. 0.00 min
Lab File: VU029100.D
Acq: 09 Jan 2019 19:27

Tgt Ion: 95 Resp: 76206
Ion Ratio Lower Upper
95 100
174 84.1 0.0 170.6
176 80.8 0.0 165.0

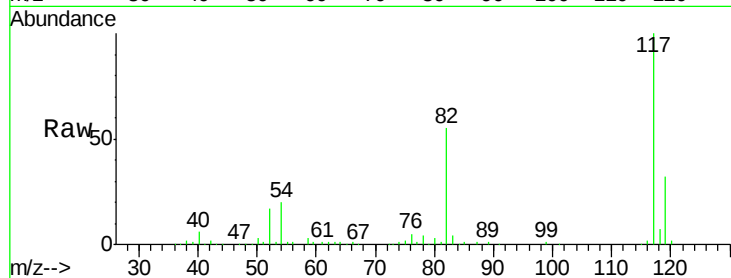




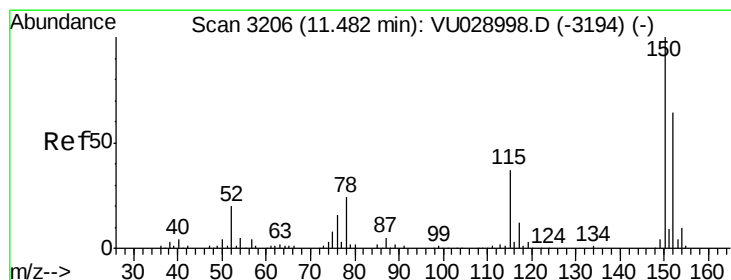
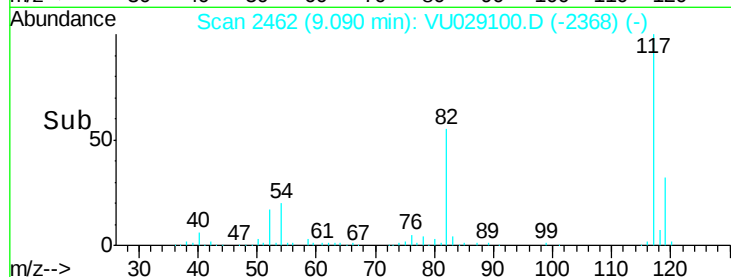
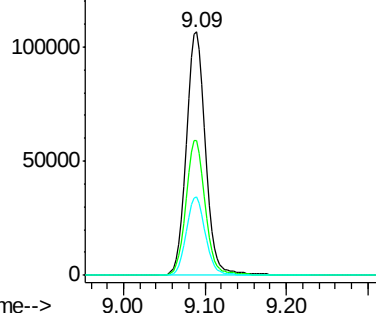
#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 9.09 min Scan# 2462
 Delta R.T. 0.00 min
 Lab File: VU029100.D
 Acq: 09 Jan 2019 19:27

Instrument :
 MSVOA_U
 ClientSampleID :

Tot Ion:117 Resp: 178347
 Ion Ratio Lower Upper
 117 100
 82 55.2 43.9 65.9
 119 32.2 26.0 39.0

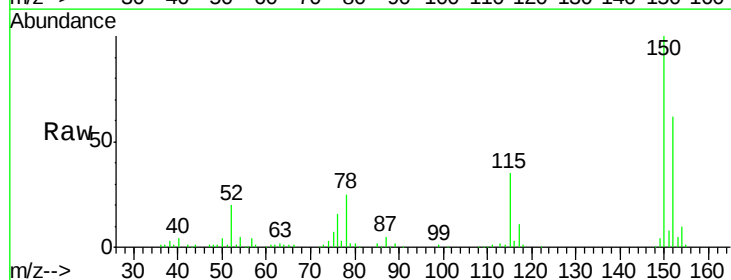


Abundance Ion 116.90 (116.60 to 117.60): V
 Ion 82.00 (81.70 to 82.70): V
 Ion 118.90 (118.60 to 119.60): V

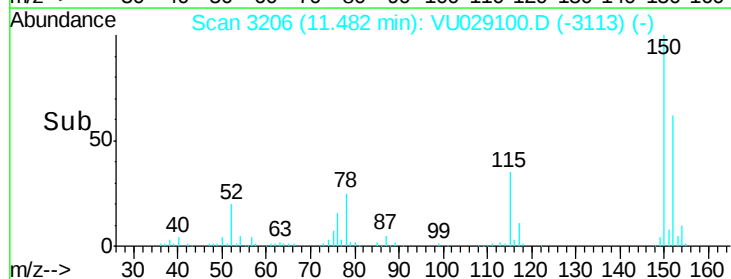
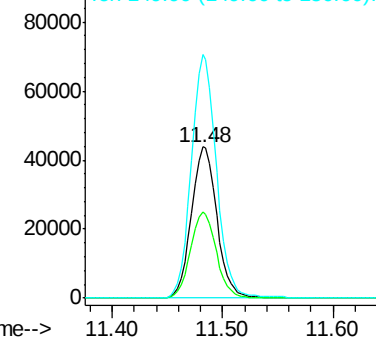


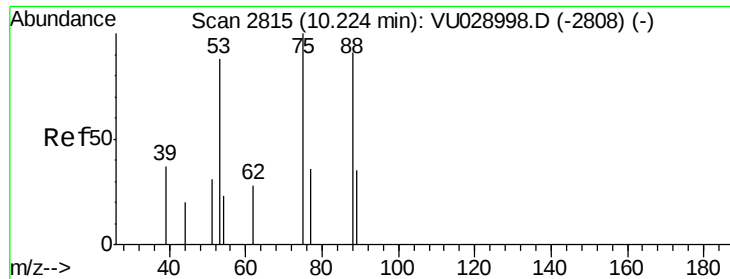
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.48 min Scan# 3206
 Delta R.T. 0.00 min
 Lab File: VU029100.D
 Acq: 09 Jan 2019 19:27

Tgt Ion:152 Resp: 70588
 Ion Ratio Lower Upper
 152 100
 115 57.2 40.1 120.3
 150 158.0 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: 20.565 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU029100.D

Acq: 09 Jan 2019 19:27

Instrument :

MSVOA_U

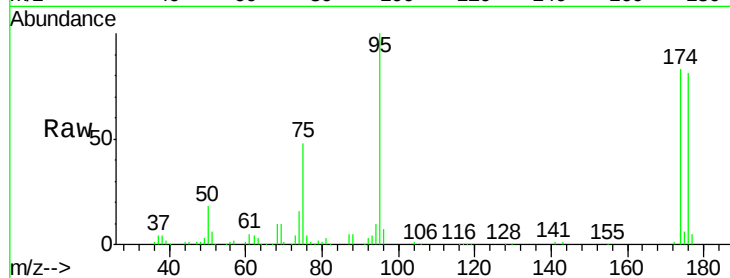
ClientSampleId :

Tot Ion: 75 Resp: 35568

Ion Ratio Lower Upper

75 100

77 1.4 20.9 62.8#



Abundance Ion 74.90 (74.60 to 75.60): VU028998.D (-2808) (-)

Ion 77.00 (76.70 to 77.70): VU028998.D (-2808) (-)

10.30

25000

20000

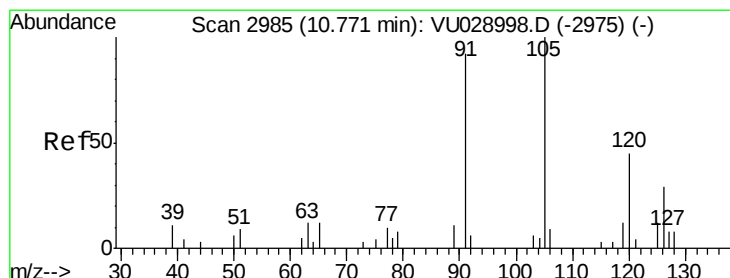
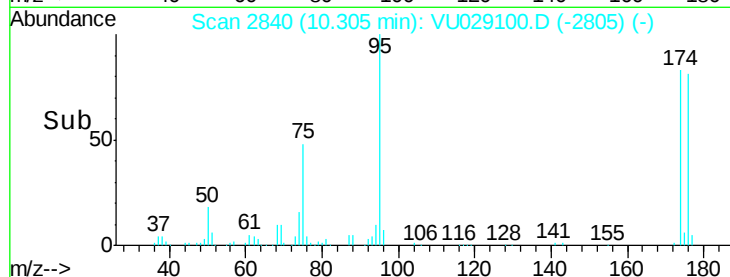
15000

10000

5000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.664 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. 0.00 min

Lab File: VU029100.D

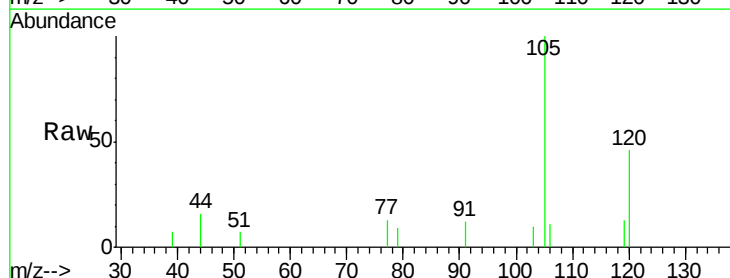
Acq: 09 Jan 2019 19:27

Tgt Ion: 105 Resp: 2897

Ion Ratio Lower Upper

105 100

120 47.1 24.8 74.4



Abundance Ion 105.00 (104.70 to 105.70): VU028998.D (-2975) (-)

Ion 120.00 (119.70 to 120.70): VU028998.D (-2975) (-)

10.77

2000

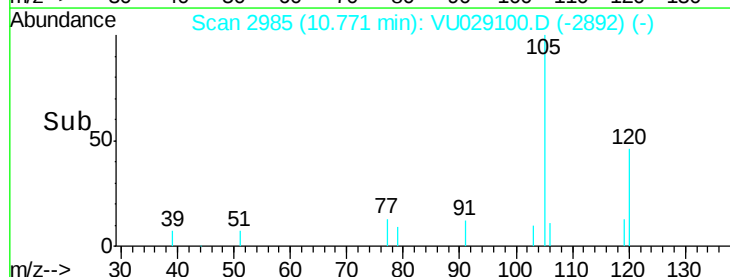
1500

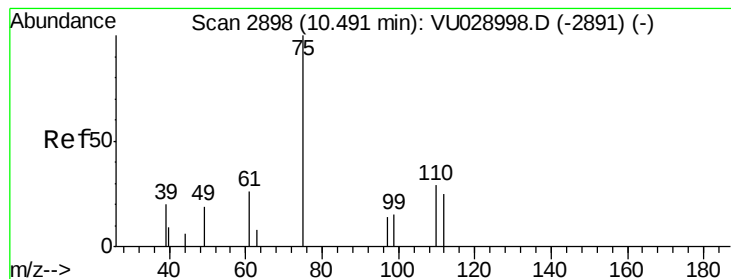
1000

500

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 53.039 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU029100.D

Acq: 09 Jan 2019 19:27

Instrument :

MSVOA_U

ClientSampleId :

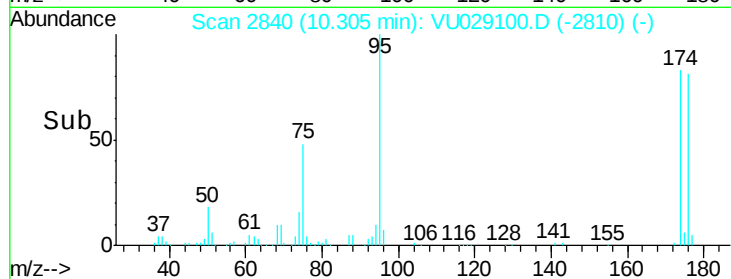
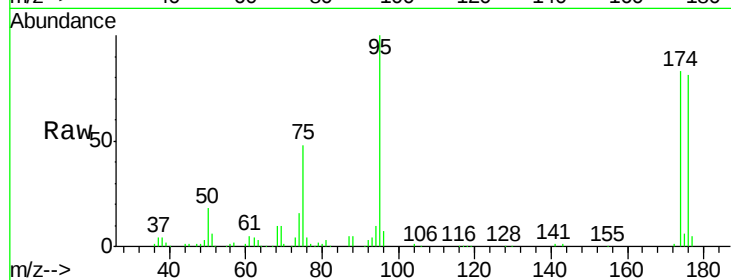
Tot Ion: 75 Resp: 35568

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

