

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\U101018\
 Data File : VU027569.D
 Acq On : 10 Oct 2018 14:50
 Operator : MD/SY
 Sample : PB113684ZHE#13
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PB113684ZHE#13

Quant Time: Oct 11 04:04:25 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	161764	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	260136	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	226704	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	94131	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	112852	41.78	ug/l	0.00
Spiked Amount			Recovery	=	83.56%	
35) Dibromofluoromethane	4.89	113	84543	47.42	ug/l	0.00
Spiked Amount			Recovery	=	94.84%	
50) Toluene-d8	7.57	98	323510	48.48	ug/l	0.00
Spiked Amount			Recovery	=	96.96%	
62) 4-Bromofluorobenzene	10.31	95	104835	42.28	ug/l	0.00
Spiked Amount			Recovery	=	84.56%	

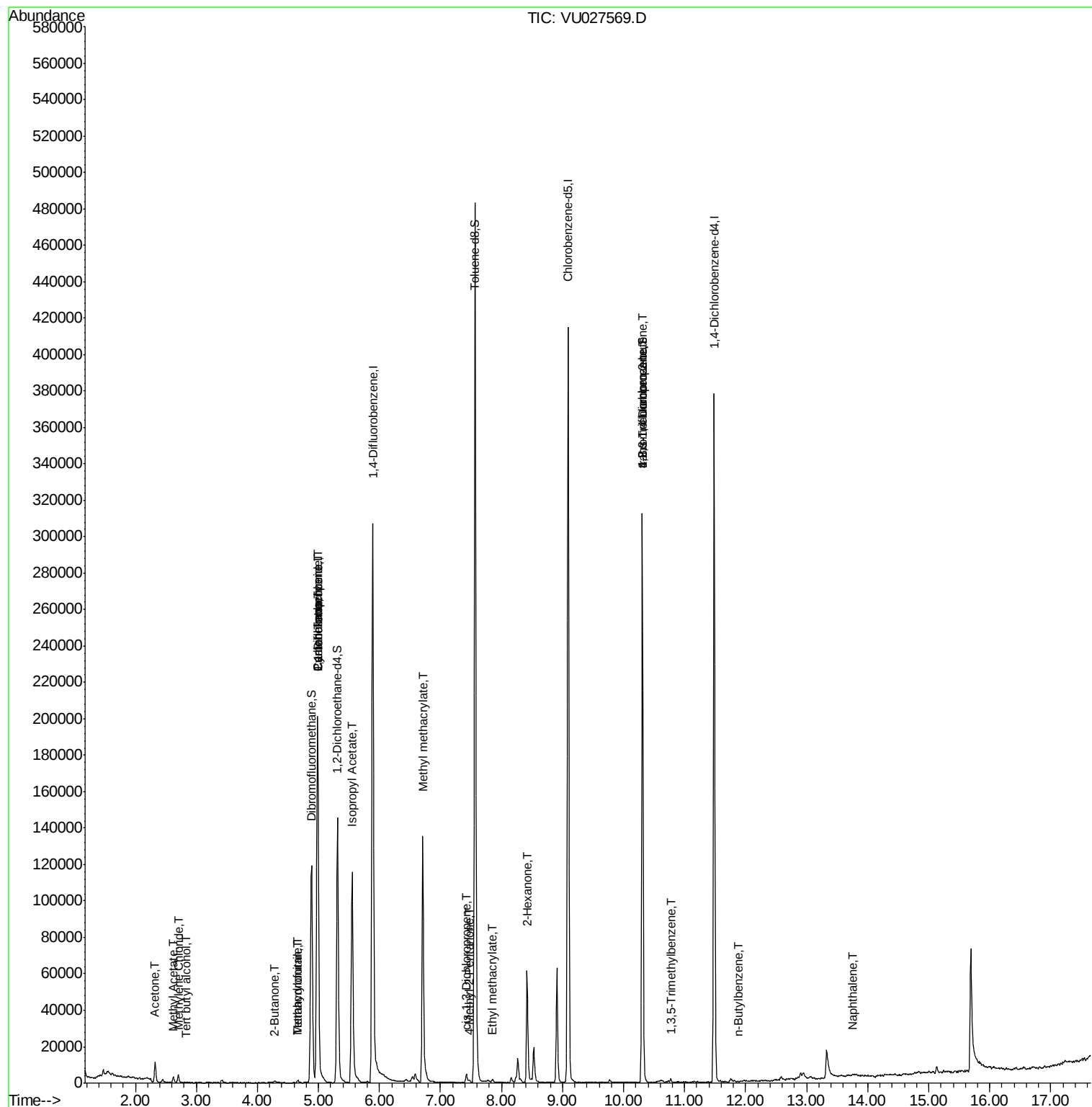
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.84	59	121	0.213	ug/l #	72
16) Acetone	2.32	43	12074	7.566	ug/l	96
18) Methyl Acetate	2.62	43	3850	1.058	ug/l #	90
20) Methylene Chloride	2.70	84	1910	0.859	ug/l	93
25) 2-Butanone	4.29	43	2208	1.015	ug/l	99
29) Tetrahydrofuran	4.65	42	912	0.665	ug/l #	62
31) Cyclohexane	4.98	56	3364	0.541	ug/l #	1
36) 1,1-Dichloropropene	4.99	75	12772	4.522	ug/l #	51
38) Carbon Tetrachloride	4.99	117	14855	5.822	ug/l #	17
41) Methacrylonitrile	4.66	41	645	0.313	ug/l #	42
43) Isopropyl Acetate	5.55	43	143336	25.282	ug/l	98
48) Methyl methacrylate	6.71	41	12787	4.535	ug/l #	45
51) 4-Methyl-2-Pentanone	7.47	43	1051	0.285	ug/l #	81
54) cis-1,3-Dichloropropene	7.42	75	828	0.236	ug/l #	62
56) Ethyl methacrylate	7.84	69	44	2.283	ug/l #	1
59) 2-Hexanone	8.42	43	8984	3.144	ug/l #	55
76) 1,2,3-Trichloropropane	10.31	75	52745	21.616	ug/l #	37
80) 1,3,5-Trimethylbenzene	10.77	105	1405	0.252	ug/l	94
81) trans-1,4-Dichloro-2-buten	10.31	75	52745	56.571	ug/l #	100
89) n-Butylbenzene	11.88	91	19	1.952	ug/l #	33
95) Naphthalene	13.75	128	383	1.712	ug/l #	69

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

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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: VU027569.D

Acq: 10 Oct 2018 14:50

Instrument :

MSVOA_U

ClientSampleId :

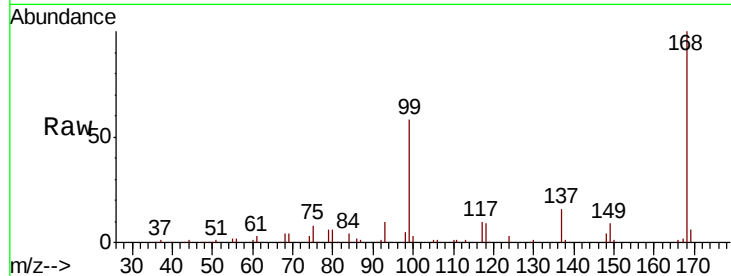
PB113684ZHE#13

Tgt Ion:168 Resp: 161764

Ion Ratio Lower Upper

168 100

99 58.2 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) (-)

4.99

60000

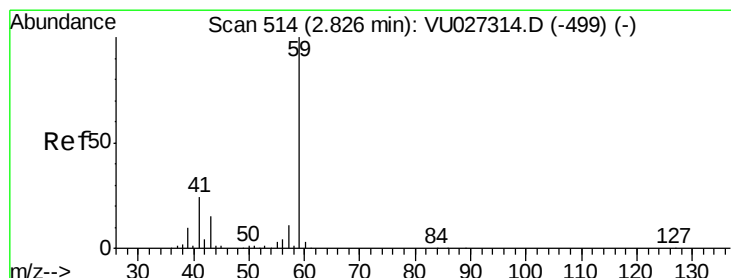
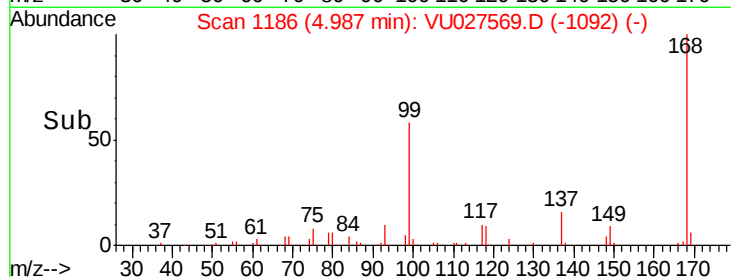
40000

20000

0

4.90 5.00 5.10 5.20

Time-->



#11

Tert butyl alcohol

Concen: 0.213 ug/l

RT: 2.84 min Scan# 517

Delta R.T. 0.01 min

Lab File: VU027569.D

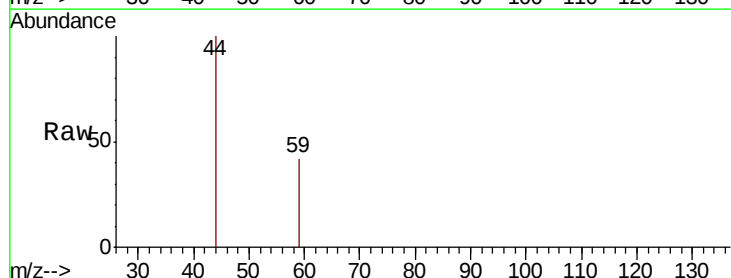
Acq: 10 Oct 2018 14:50

Tgt Ion: 59 Resp: 121

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VU027314.D (-499) (-)

Ion 57.00 (56.70 to 57.70): VU027314.D (-499) (-)

2.84

150

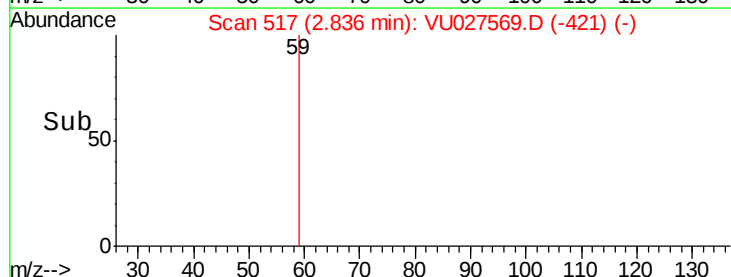
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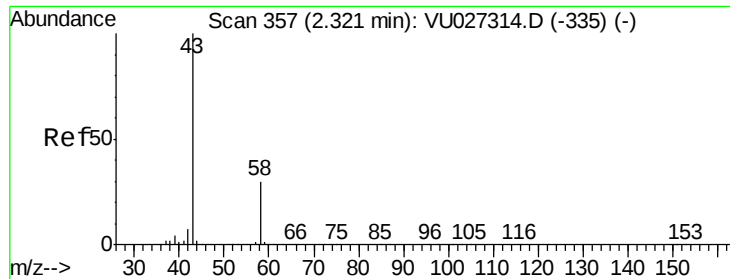
50

0

2.81 2.82 2.83 2.84 2.85

Time-->





#16

Acetone

Concen: 7.566 ug/l

RT: 2.32 min Scan# 358

Delta R.T. 0.00 min

Lab File: VU027569.D

Acq: 10 Oct 2018 14:50

Instrument :

MSVOA_U

ClientSampleId :

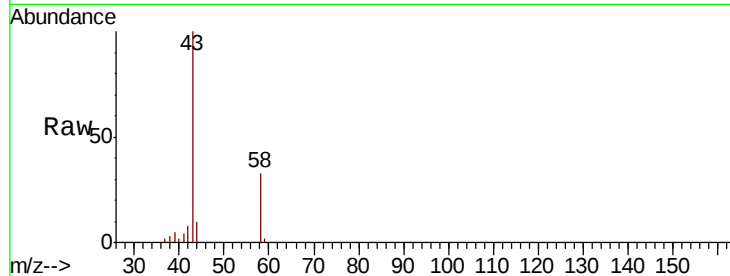
PB113684ZHE#13

Tgt Ion: 43 Resp: 12074

Ion Ratio Lower Upper

43 100

58 32.5 24.2 36.4



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

2.32

8000

6000

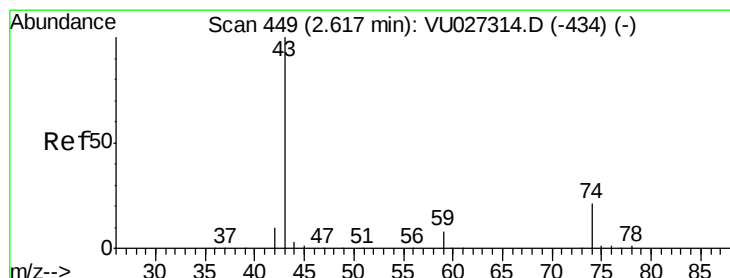
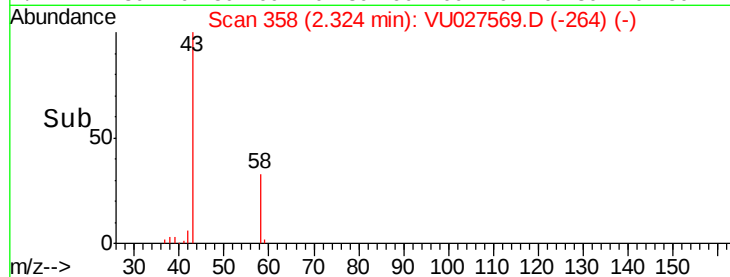
4000

2000

0

Time-->

2.25 2.30 2.35 2.40



#18

Methyl Acetate

Concen: 1.058 ug/l

RT: 2.62 min Scan# 450

Delta R.T. 0.00 min

Lab File: VU027569.D

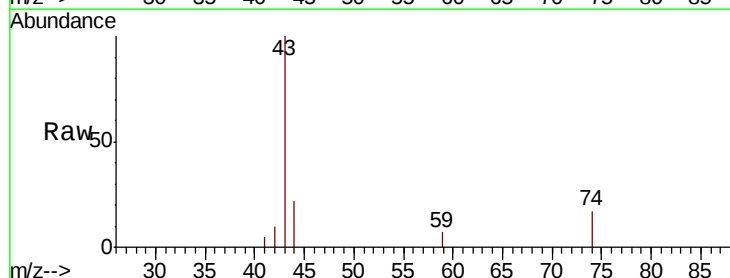
Acq: 10 Oct 2018 14:50

Tgt Ion: 43 Resp: 3850

Ion Ratio Lower Upper

43 100

74 16.1 16.5 24.7#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

2.62

2500

2000

1500

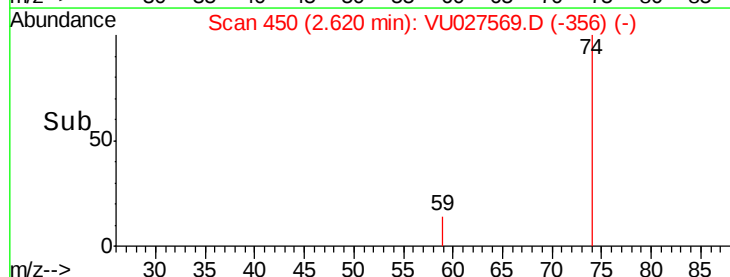
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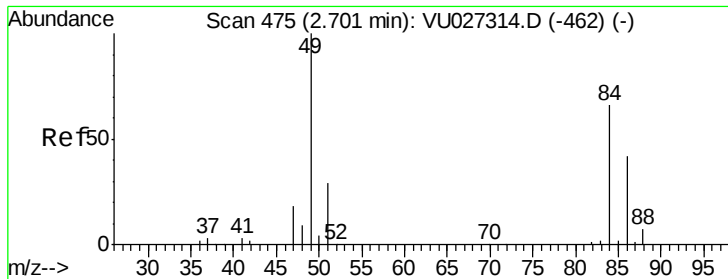
500

0

Time-->

2.55 2.60 2.65 2.70

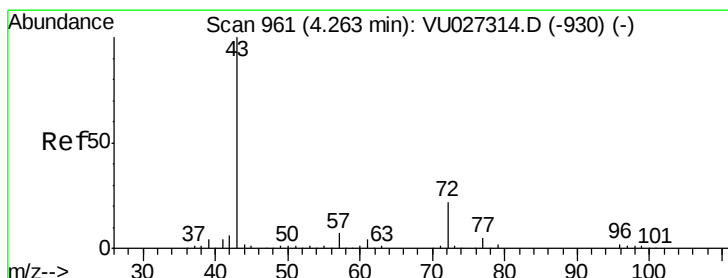
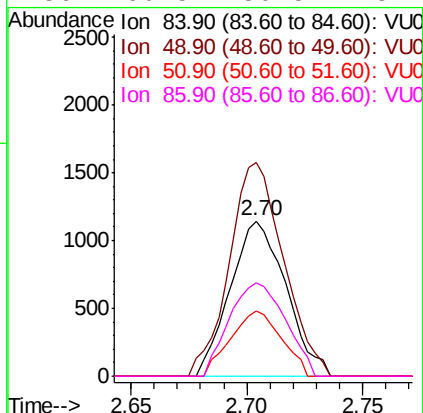
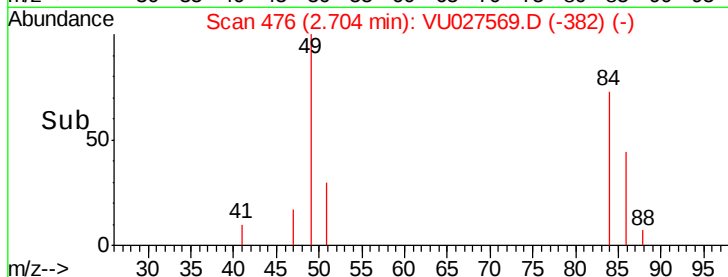
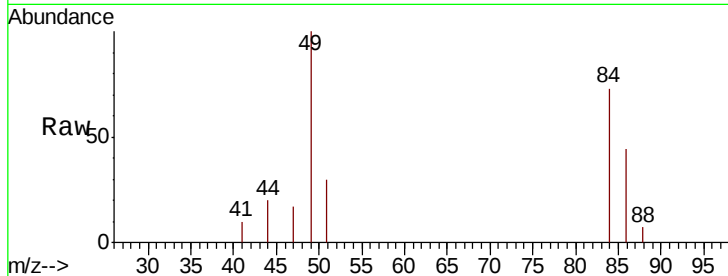




#20
Methylene Chloride
Concen: 0.859 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU027569.D
Acq: 10 Oct 2018 14:50

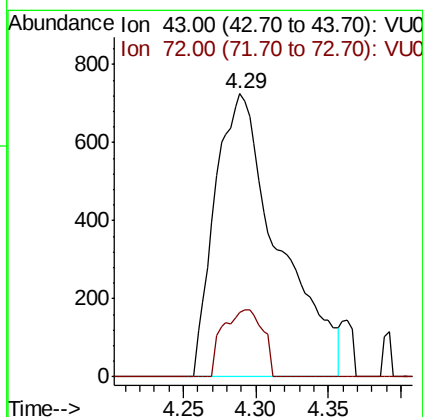
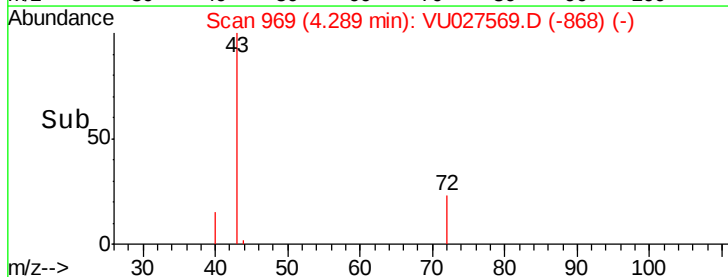
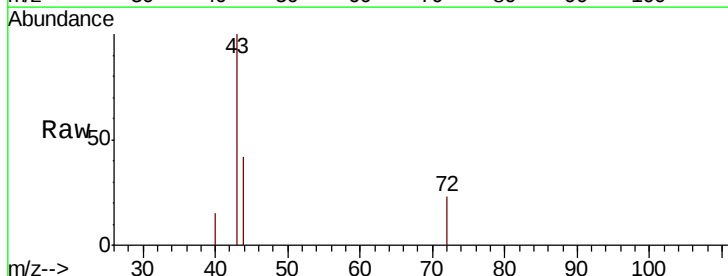
Instrument :
MSVOA_U
ClientSampleId :
PB113684ZHE#13

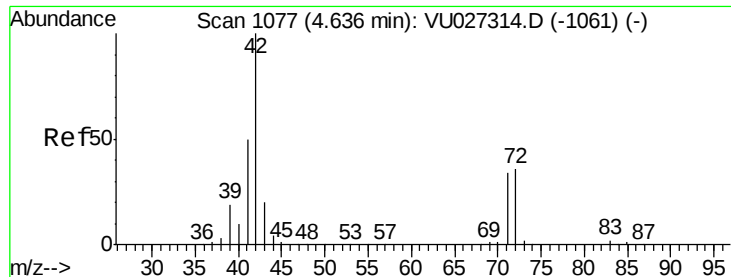
Tgt Ion: 84 Resp: 1910
Ion Ratio Lower Upper
84 100
49 137.8 120.5 180.7
51 41.8 35.1 52.7
86 60.5 50.5 75.7



#25
2-Butanone
Concen: 1.015 ug/l
RT: 4.29 min Scan# 969
Delta R.T. 0.03 min
Lab File: VU027569.D
Acq: 10 Oct 2018 14:50

Tgt Ion: 43 Resp: 2208
Ion Ratio Lower Upper
43 100
72 22.6 17.8 26.6





#29

Tetrahydrofuran

Concen: 0.665 ug/l

RT: 4.65 min Scan# 1082

Delta R.T. 0.02 min

Lab File: VU027569.D

Acq: 10 Oct 2018 14:50

Instrument :

MSVOA_U

ClientSampleId :

PB113684ZHE#13

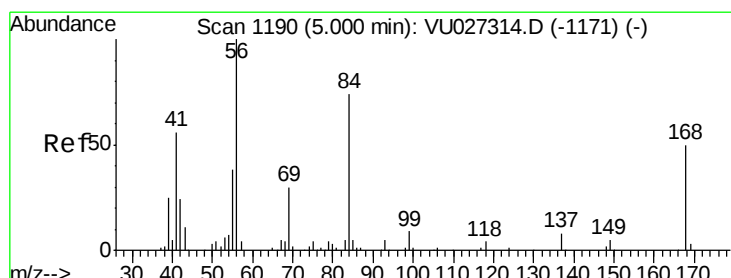
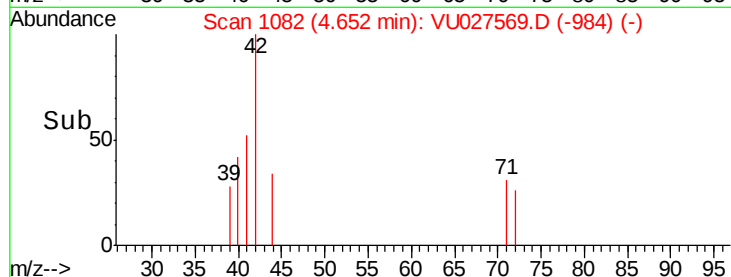
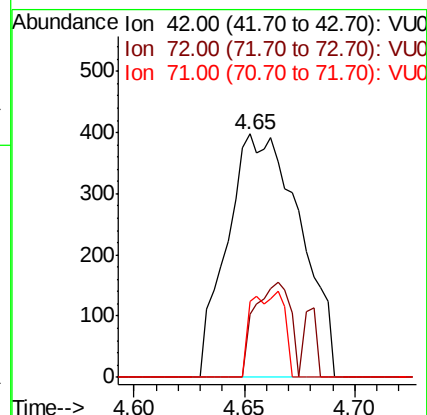
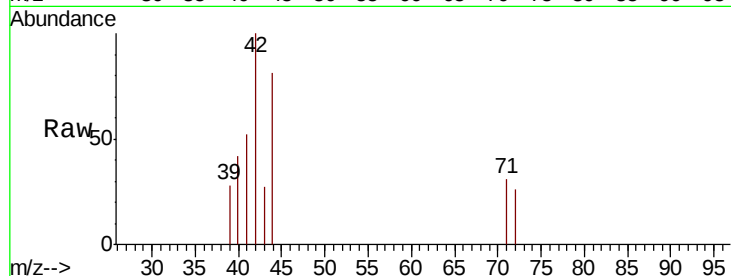
Tgt Ion: 42 Resp: 912

Ion Ratio Lower Upper

42 100

72 19.1 30.1 45.1#

71 7.9 27.7 41.5#



#31

Cyclohexane

Concen: 0.541 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.02 min

Lab File: VU027569.D

Acq: 10 Oct 2018 14:50

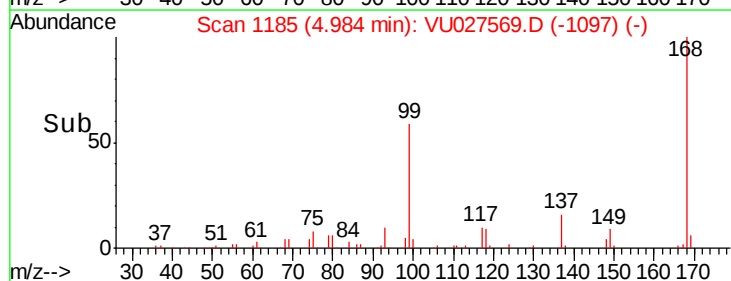
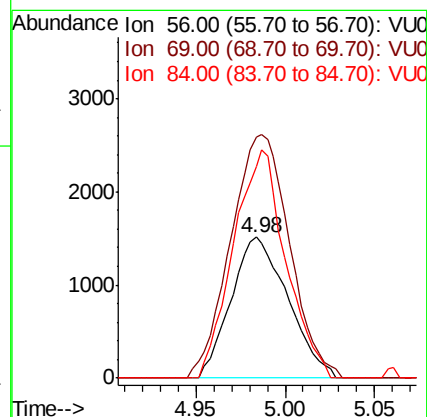
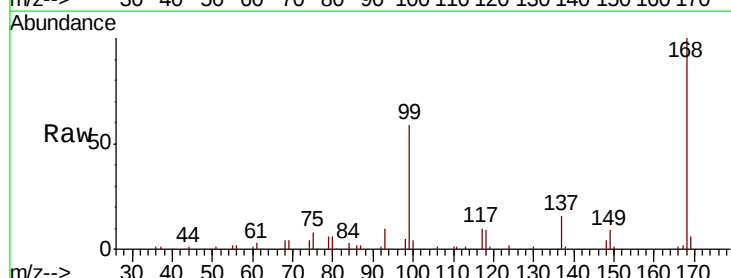
Tgt Ion: 56 Resp: 3364

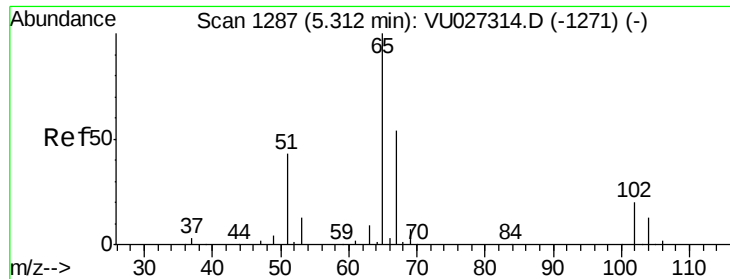
Ion Ratio Lower Upper

56 100

69 171.4 24.1 36.1#

84 150.3 59.1 88.7#

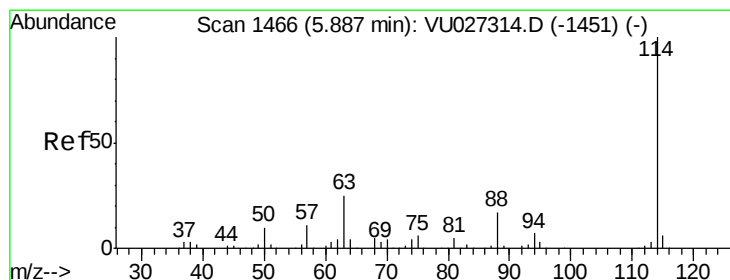
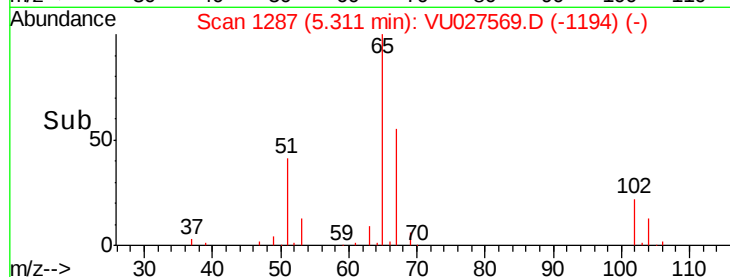
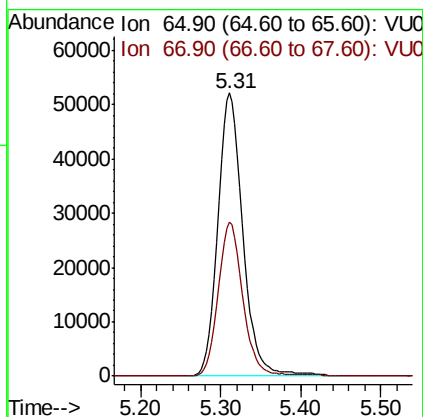
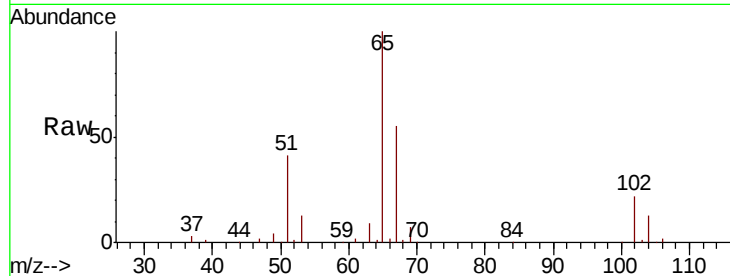




#33
 1,2-Dichloroethane-d4
 Concen: 41.779 ug/l
 RT: 5.31 min Scan# 1287
 Delta R.T. 0.00 min
 Lab File: VU027569.D
 Acq: 10 Oct 2018 14:50

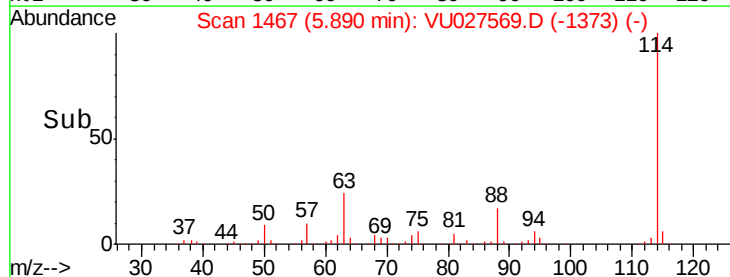
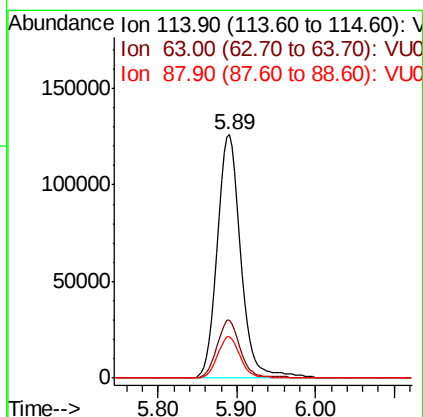
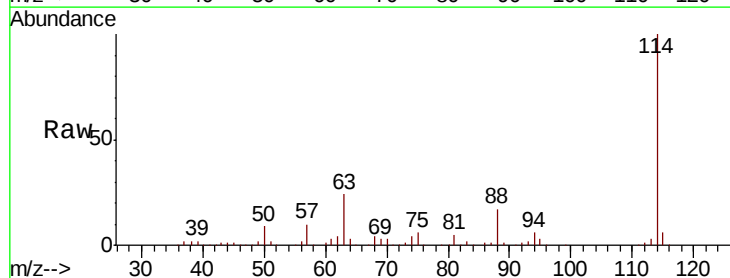
Instrument :
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 PB113684ZHE#13

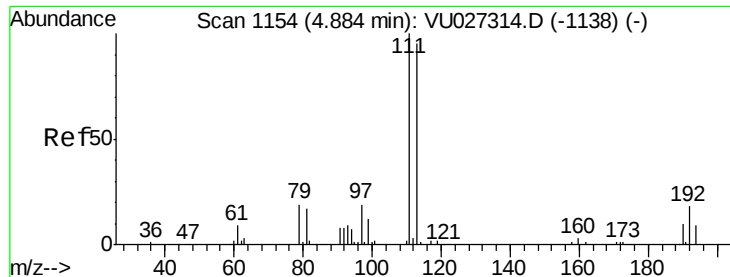
Tgt Ion: 65 Resp: 112852
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1467
 Delta R.T. 0.00 min
 Lab File: VU027569.D
 Acq: 10 Oct 2018 14:50

Tgt Ion: 114 Resp: 260136
 Ion Ratio Lower Upper
 114 100
 63 23.9 0.0 50.2
 88 17.0 0.0 33.8

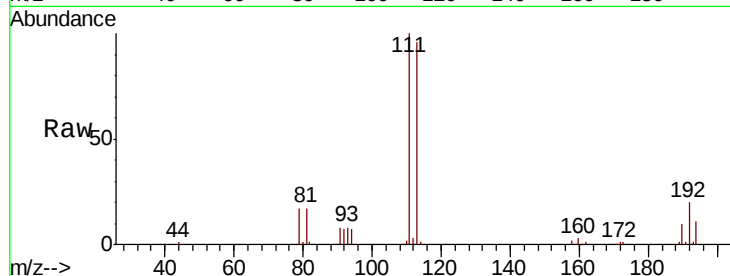




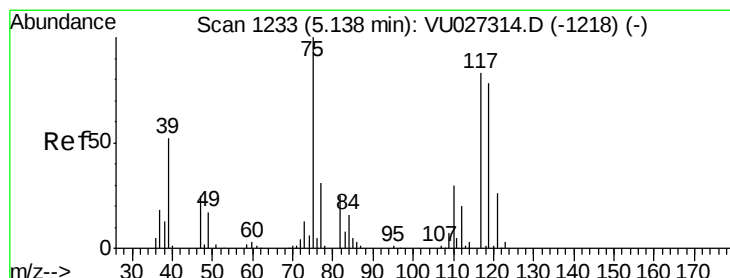
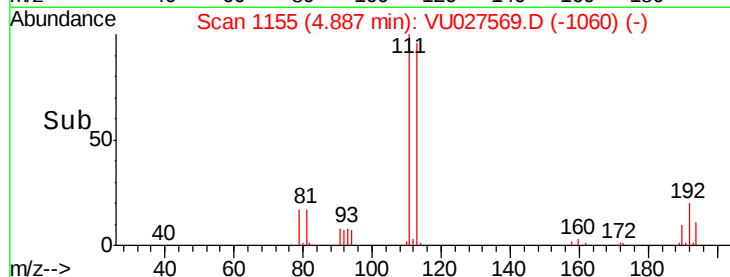
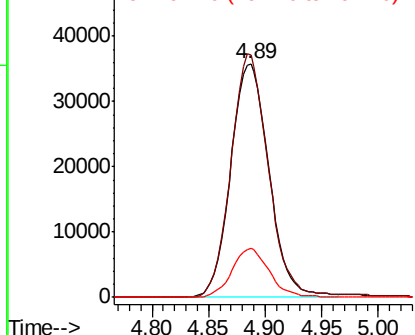
#35
 Dibromofluoromethane
 Concen: 47.422 ug/l
 RT: 4.89 min Scan# 1155
 Delta R.T. 0.00 min
 Lab File: VU027569.D
 Acq: 10 Oct 2018 14:50

Instrument :
 MSVOA_U
 ClientSampleId :
 PB113684ZHE#13

Tgt Ion:113 Resp: 84543
 Ion Ratio Lower Upper
 113 100
 111 101.4 83.1 124.7
 192 20.2 15.4 23.0

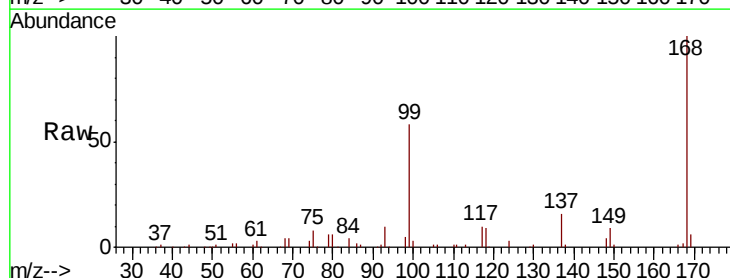


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

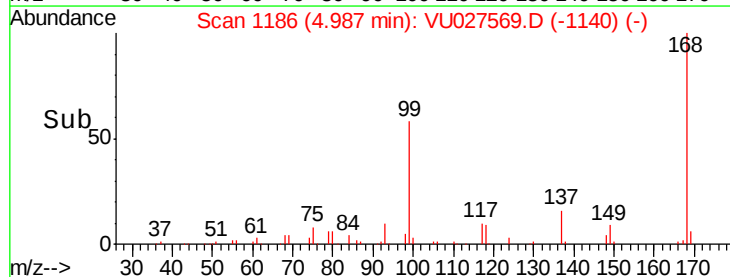
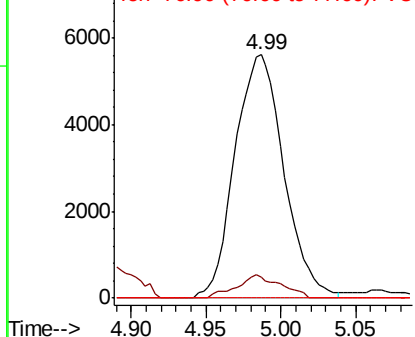


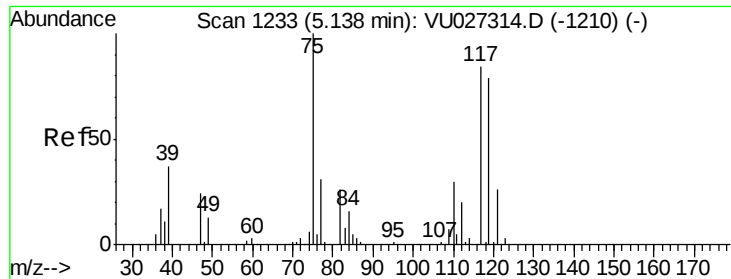
#36
 1,1-Dichloropropene
 Concen: 4.522 ug/l
 RT: 4.99 min Scan# 1186
 Delta R.T. -0.15 min
 Lab File: VU027569.D
 Acq: 10 Oct 2018 14:50

Tgt Ion: 75 Resp: 12772
 Ion Ratio Lower Upper
 75 100
 110 8.5 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: 5.822 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.15 min

Lab File: VU027569.D

Acq: 10 Oct 2018 14:50

Instrument :

MSVOA_U

ClientSampleId :

PB113684ZHE#13

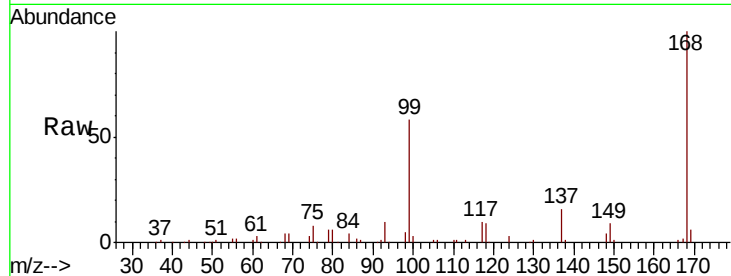
Tgt Ion:117 Resp: 14855

Ion Ratio Lower Upper

117 100

119 4.8 74.5 111.7#

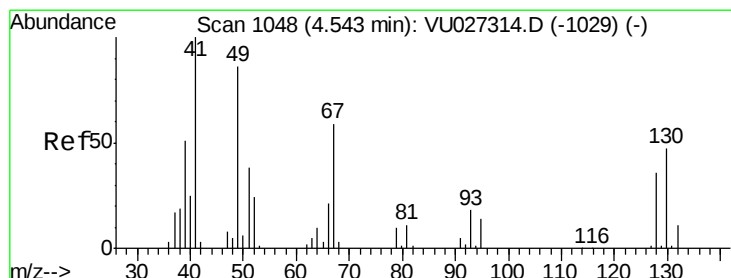
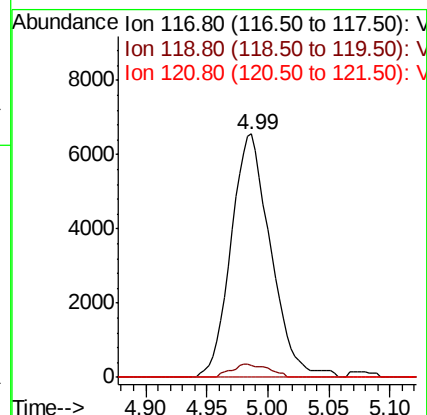
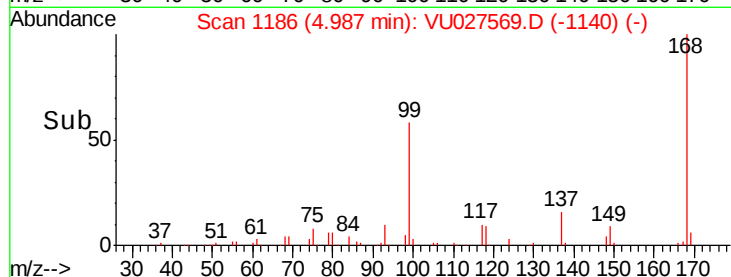
121 0.0 24.6 37.0#



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



#41

Methacrylonitrile

Concen: 0.313 ug/l

RT: 4.66 min Scan# 1085

Delta R.T. 0.12 min

Lab File: VU027569.D

Acq: 10 Oct 2018 14:50

Tgt Ion: 41 Resp: 645

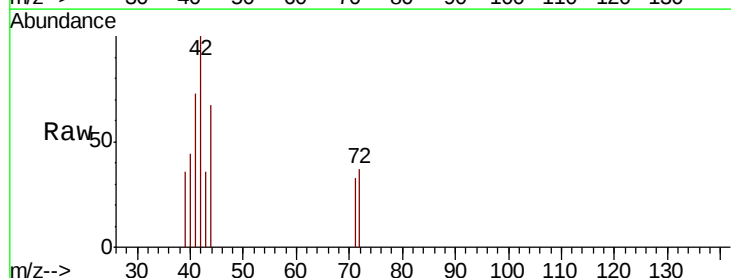
Ion Ratio Lower Upper

41 100

39 28.1 41.1 61.7#

67 0.0 50.4 75.6#

52 0.0 20.3 30.5#

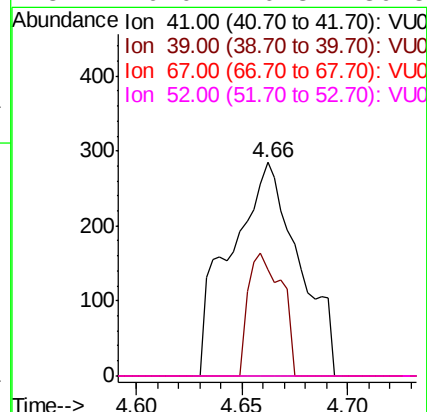
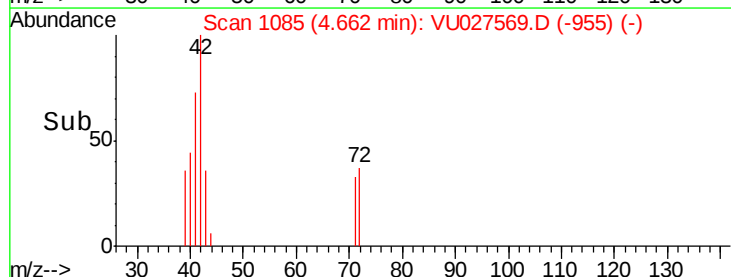


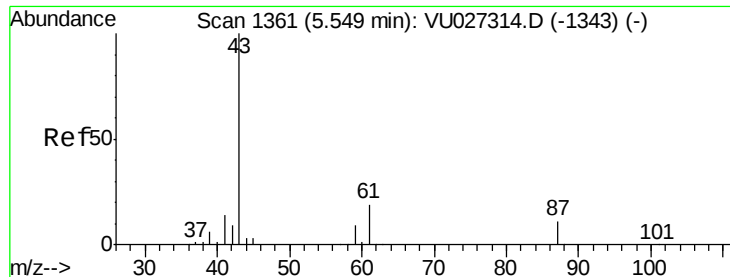
Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

Ion 67.00 (66.70 to 67.70): VU0

Ion 52.00 (51.70 to 52.70): VU0





#43

Isopropyl Acetate

Concen: 25.282 ug/l

RT: 5.55 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VU027569.D

Acq: 10 Oct 2018 14:50

Instrument :

MSVOA_U

ClientSampleId :

PB113684ZHE#13

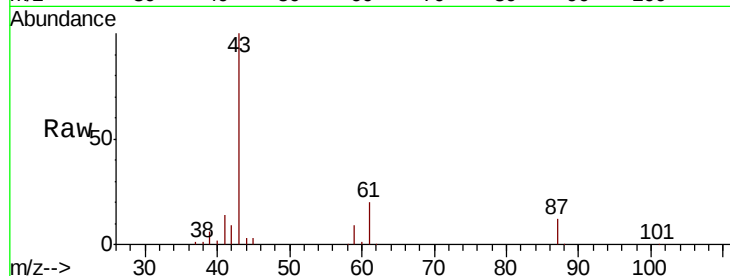
Tgt Ion: 43 Resp: 143336

Ion Ratio Lower Upper

43 100

61 19.8 15.3 22.9

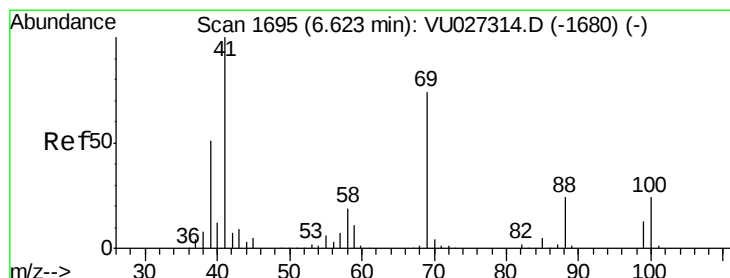
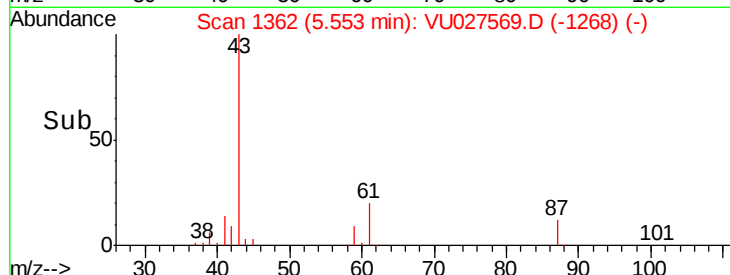
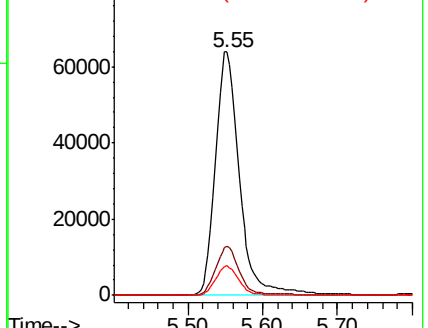
87 11.7 8.6 13.0



Abundance Ion 43.00 (42.70 to 43.70): VU027314.D (-1343) (-)

Ion 61.00 (60.70 to 61.70): VU027314.D (-1343) (-)

Ion 87.00 (86.70 to 87.70): VU027314.D (-1343) (-)



#48

Methyl methacrylate

Concen: 4.535 ug/l

RT: 6.71 min Scan# 1721

Delta R.T. 0.08 min

Lab File: VU027569.D

Acq: 10 Oct 2018 14:50

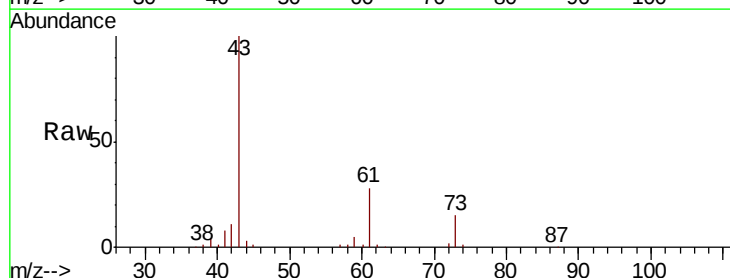
Tgt Ion: 41 Resp: 12787

Ion Ratio Lower Upper

41 100

69 0.0 61.0 91.4#

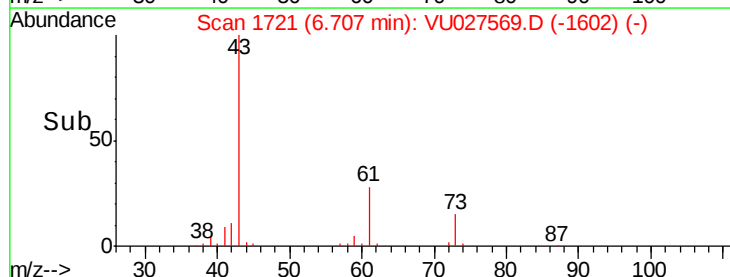
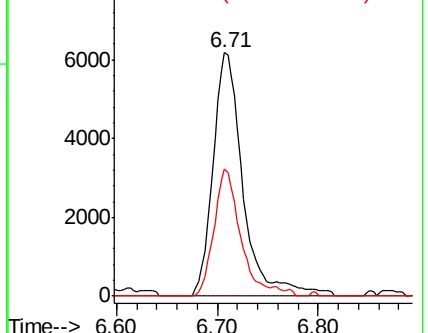
39 46.9 39.9 59.9

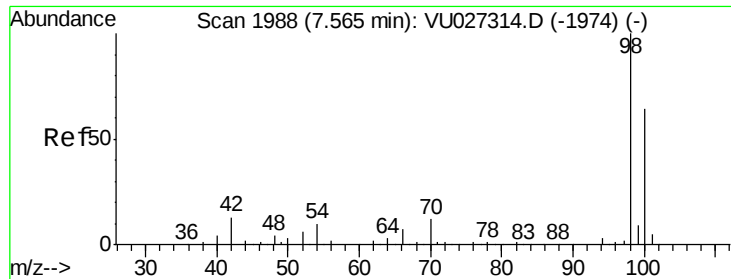


Abundance Ion 41.00 (40.70 to 41.70): VU027314.D (-1680) (-)

Ion 69.00 (68.70 to 69.70): VU027314.D (-1680) (-)

Ion 39.00 (38.70 to 39.70): VU027314.D (-1680) (-)

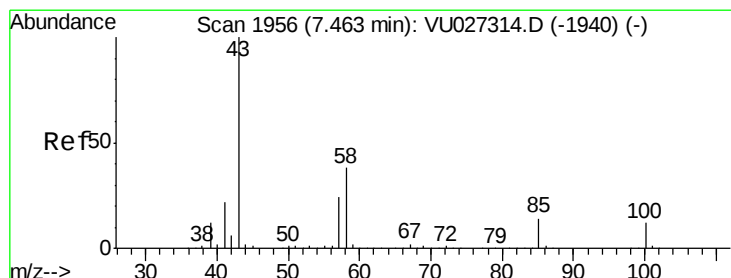
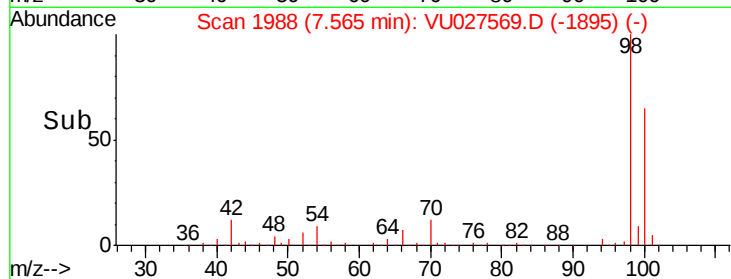
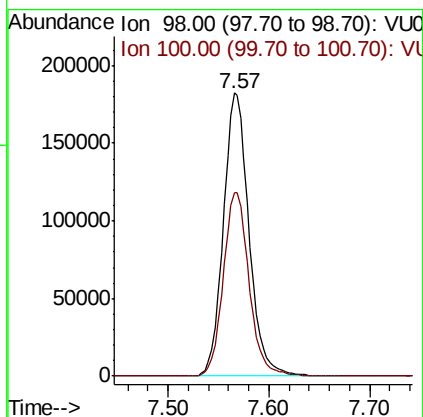
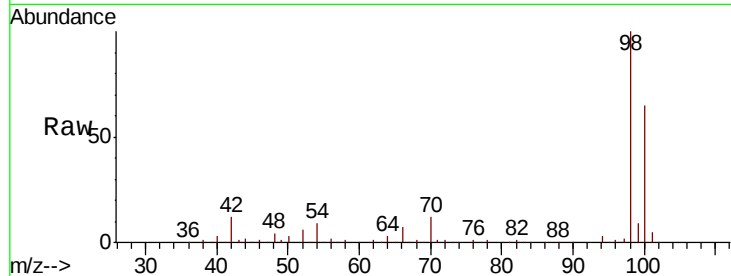




#50
Toluene-d8
Concen: 48.485 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VU027569.D
Acq: 10 Oct 2018 14:50

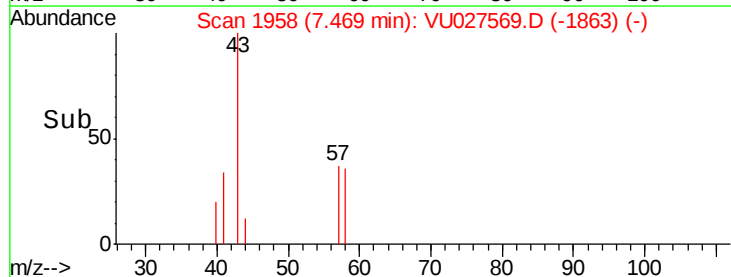
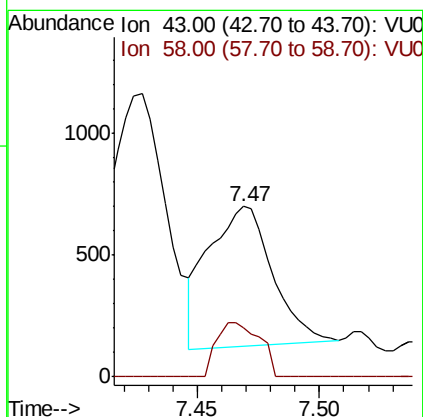
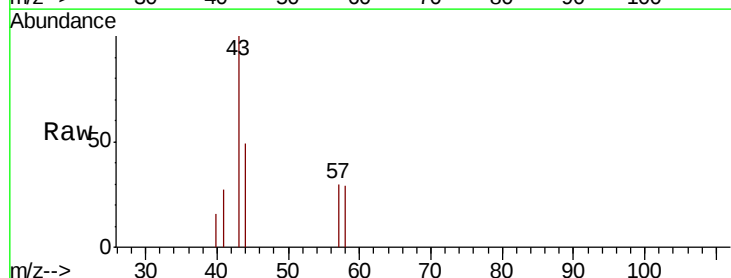
Instrument :
MSVOA_U
ClientSampleId :
PB113684ZHE#13

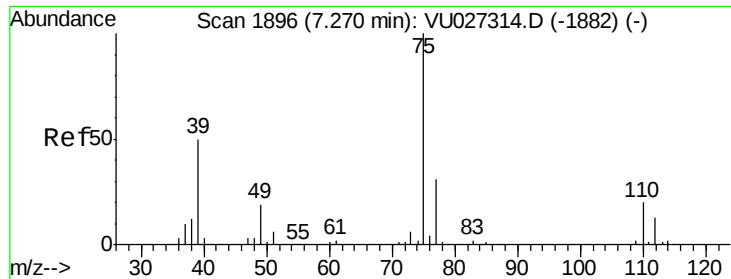
Tgt Ion: 98 Resp: 323510
Ion Ratio Lower Upper
98 100
100 65.4 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 0.285 ug/l
RT: 7.47 min Scan# 1958
Delta R.T. 0.01 min
Lab File: VU027569.D
Acq: 10 Oct 2018 14:50

Tgt Ion: 43 Resp: 1051
Ion Ratio Lower Upper
43 100
58 26.2 29.8 44.8#

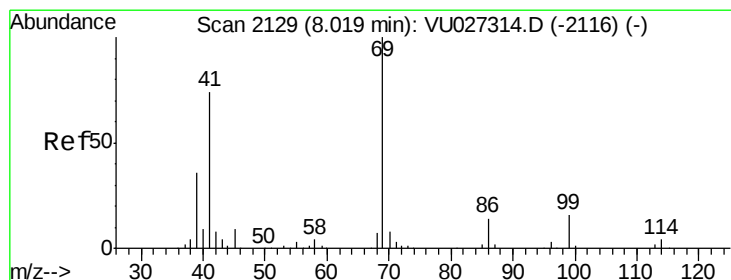
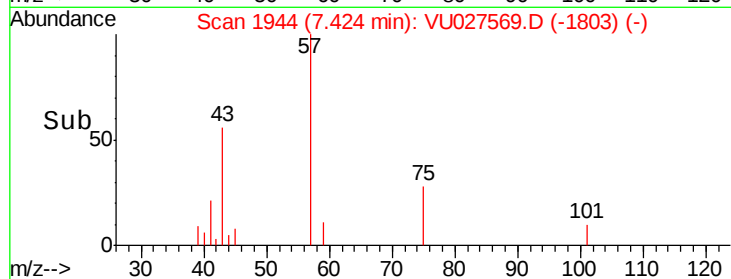
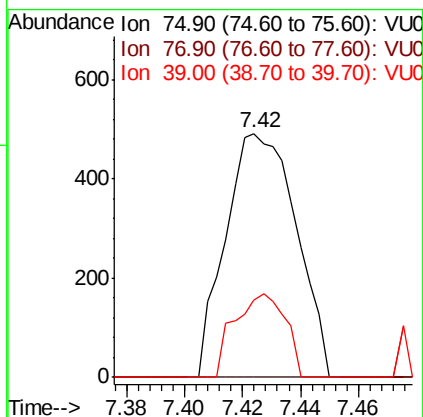
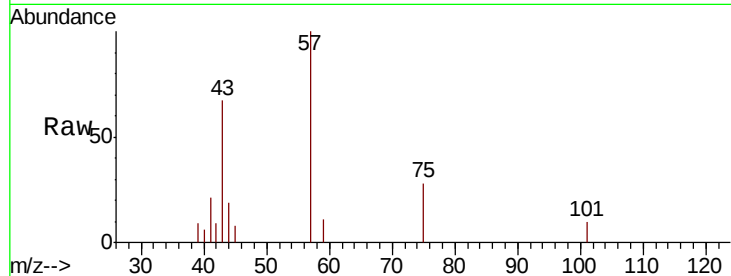




#54
 cis-1,3-Dichloropropene
 Concen: 0.236 ug/l
 RT: 7.42 min Scan# 1944
 Delta R.T. 0.15 min
 Lab File: VU027569.D
 Acq: 10 Oct 2018 14:50

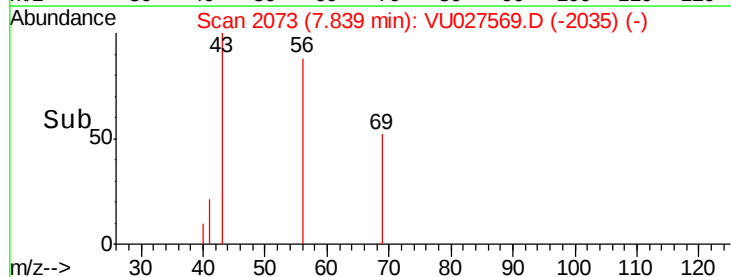
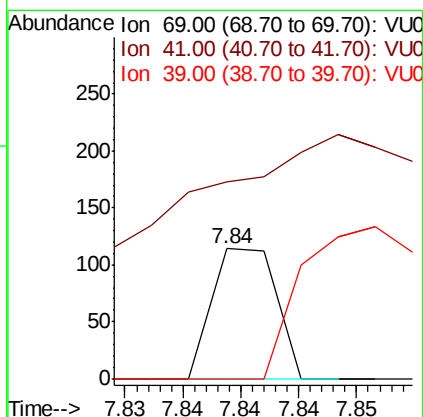
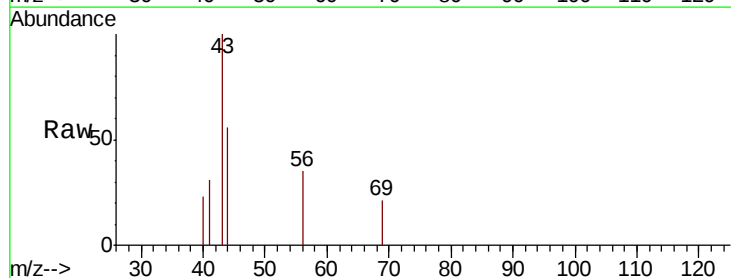
Instrument :
 MSVOA_U
 ClientSampleId :
 PB113684ZHE#13

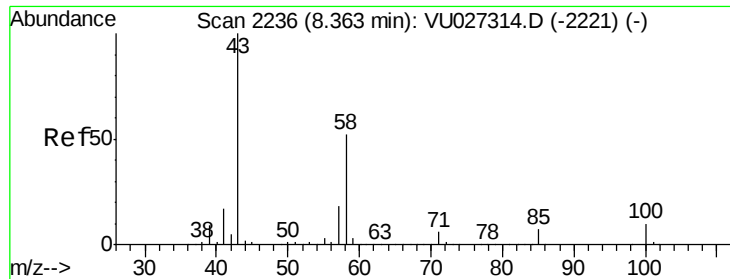
Tgt Ion: 75 Resp: 828
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.5 36.7#
 39 31.8 40.1 60.1#



#56
 Ethyl methacrylate
 Concen: 2.283 ug/l
 RT: 7.84 min Scan# 2073
 Delta R.T. -0.18 min
 Lab File: VU027569.D
 Acq: 10 Oct 2018 14:50

Tgt Ion: 69 Resp: 44
 Ion Ratio Lower Upper
 69 100
 41 1011.4 60.0 90.0#
 39 206.8 29.5 44.3#





#59

2-Hexanone

Concen: 3.144 ug/l

RT: 8.42 min Scan# 2253

Delta R.T. 0.05 min

Lab File: VU027569.D

Acq: 10 Oct 2018 14:50

Instrument :

MSVOA_U

ClientSampleId :

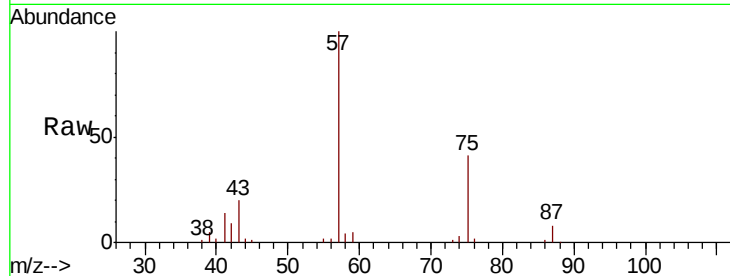
PB113684ZHE#13

Tgt Ion: 43 Resp: 8984

Ion Ratio Lower Upper

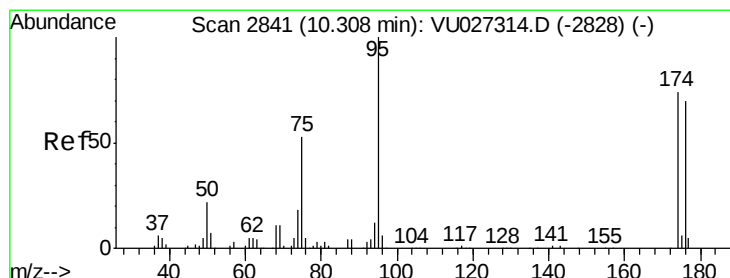
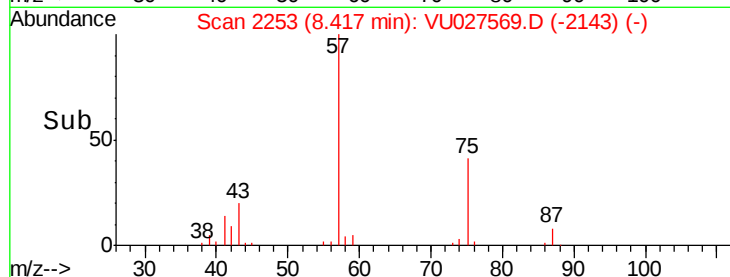
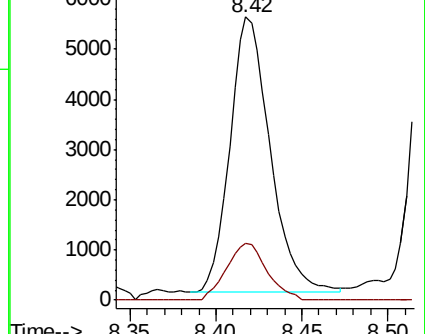
43 100

58 20.7 26.1 78.3#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#62

4-Bromofluorobenzene

Concen: 42.277 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. 0.00 min

Lab File: VU027569.D

Acq: 10 Oct 2018 14:50

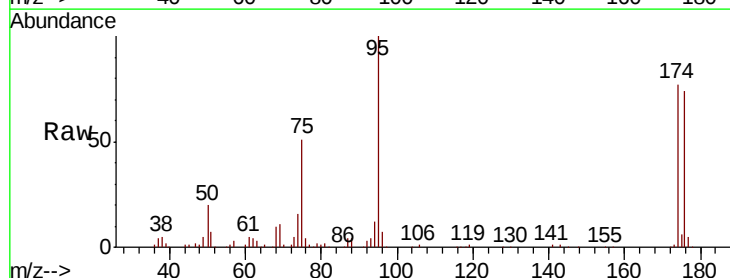
Tgt Ion: 95 Resp: 104835

Ion Ratio Lower Upper

95 100

174 77.5 0.0 147.8

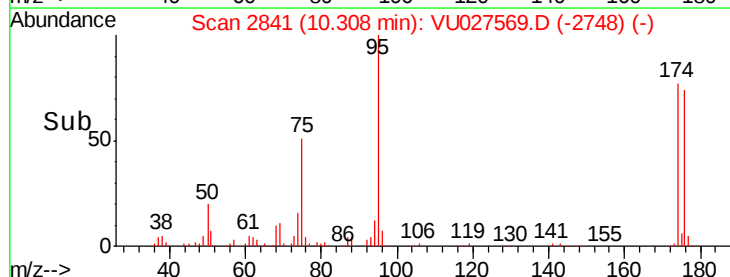
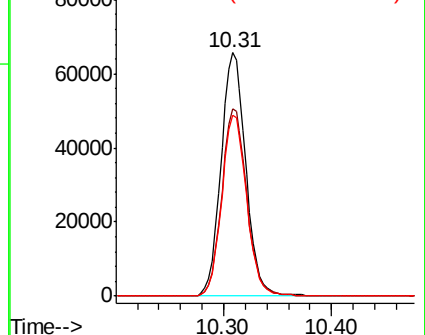
176 74.8 0.0 140.8

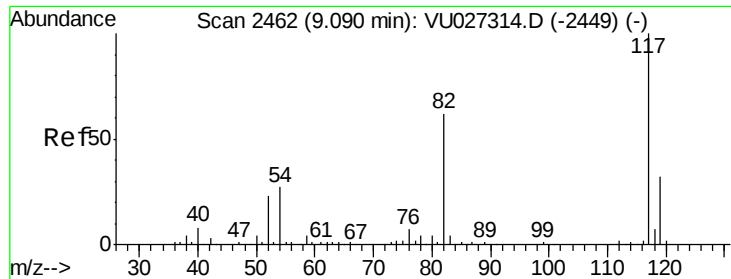


Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

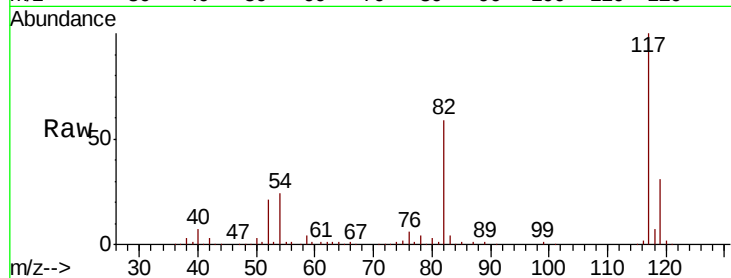




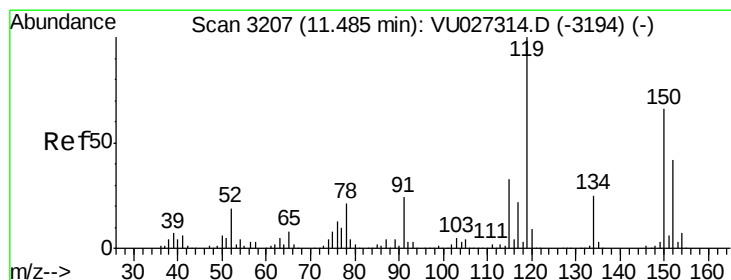
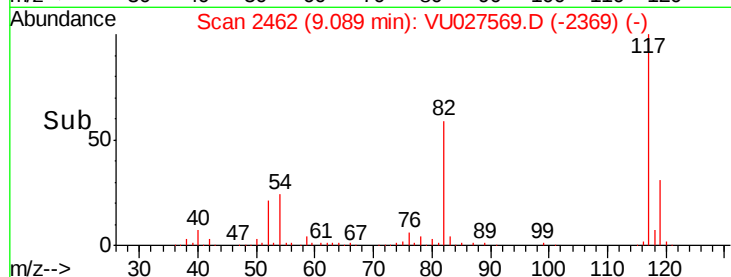
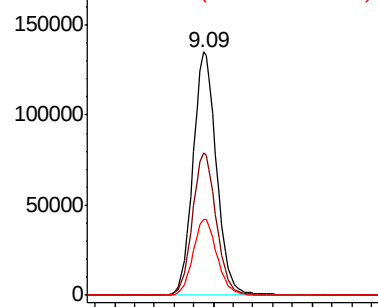
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU027569.D
Acq: 10 Oct 2018 14:50

Instrument :
MSVOA_U
ClientSampleId :
PB113684ZHE#13

Tgt Ion:117 Resp: 226704
Ion Ratio Lower Upper
117 100
82 58.6 49.2 73.8
119 31.3 25.7 38.5

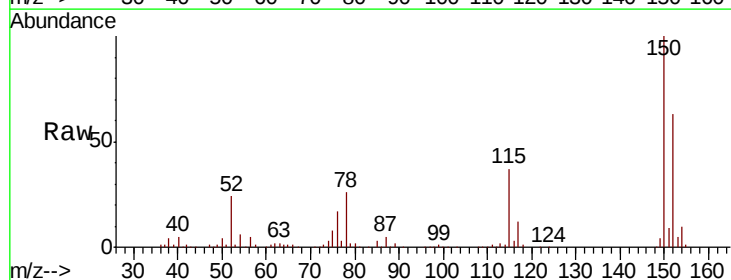


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

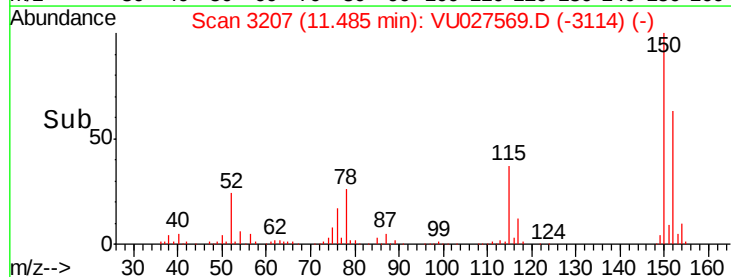
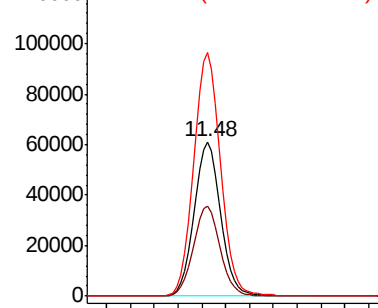


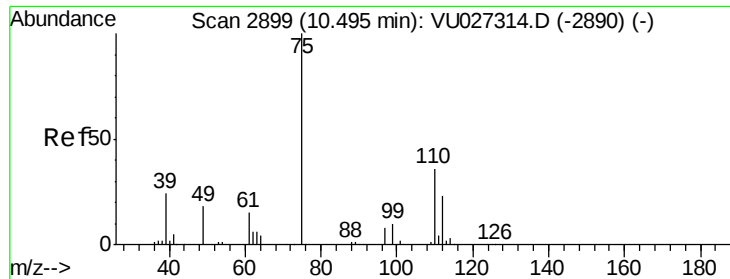
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3207
Delta R.T. -0.00 min
Lab File: VU027569.D
Acq: 10 Oct 2018 14:50

Tgt Ion:152 Resp: 94131
Ion Ratio Lower Upper
152 100
115 59.1 43.4 130.2
150 159.8 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: 21.616 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU027569.D

Acq: 10 Oct 2018 14:50

Instrument :

MSVOA_U

ClientSampleId :

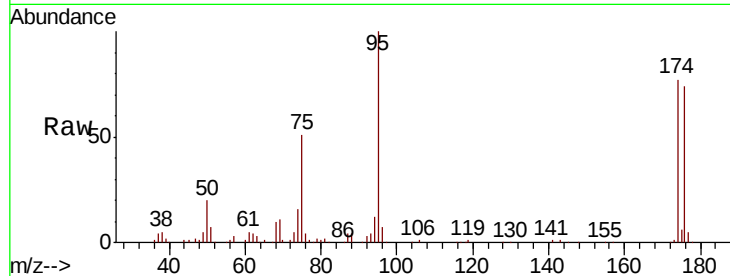
PB113684ZHE#13

Tgt Ion: 75 Resp: 52745

Ion Ratio Lower Upper

75 100

77 1.1 20.3 60.9#



Abundance Ion 74.90 (74.60 to 75.60): VU027314.D (-2890) (-)

Ion 77.00 (76.70 to 77.70): VU027314.D (-2890) (-)

10.31

30000

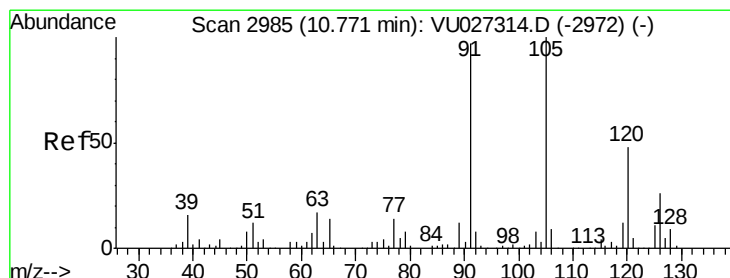
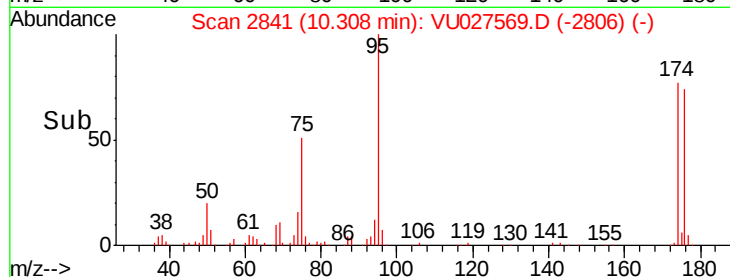
20000

10000

0

Time-->

10.25 10.30 10.35



#80

1,3,5-Trimethylbenzene

Concen: 0.252 ug/l

RT: 10.77 min Scan# 2986

Delta R.T. 0.00 min

Lab File: VU027569.D

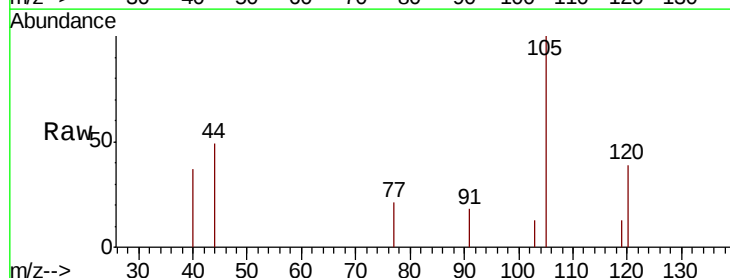
Acq: 10 Oct 2018 14:50

Tgt Ion: 105 Resp: 1405

Ion Ratio Lower Upper

105 100

120 44.5 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): VU027314.D (-2972) (-)

Ion 120.00 (119.70 to 120.70): VU027314.D (-2972) (-)

10.77

1000

800

600

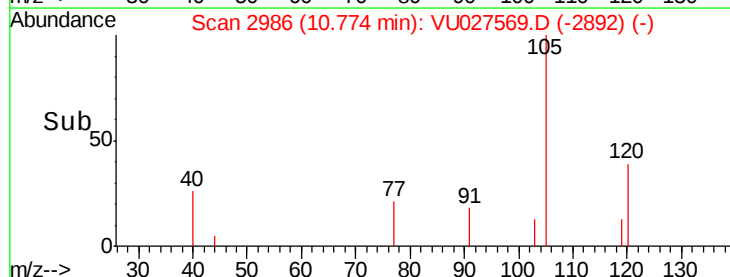
400

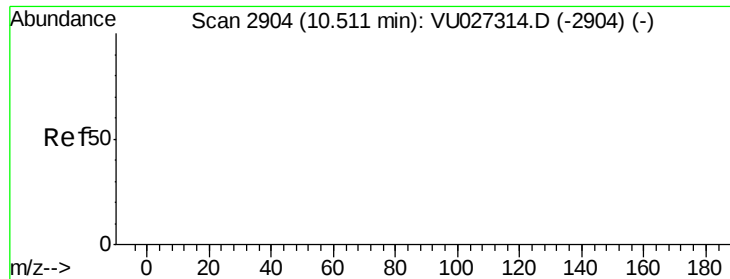
200

0

Time-->

10.75 10.80





#81

trans-1,4-Dichloro-2-butene

Concen: 56.571 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.20 min

Lab File: VU027569.D

Acq: 10 Oct 2018 14:50

Instrument :

MSVOA_U

ClientSampleId :

PB113684ZHE#13

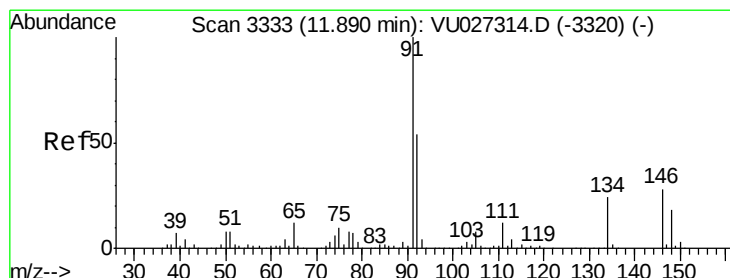
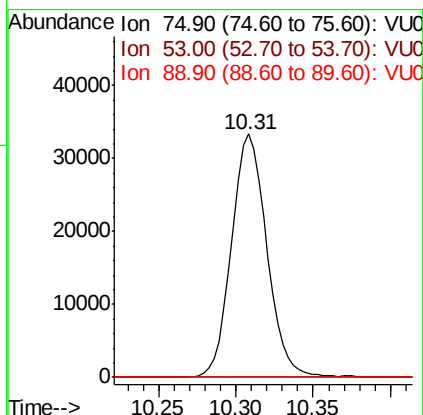
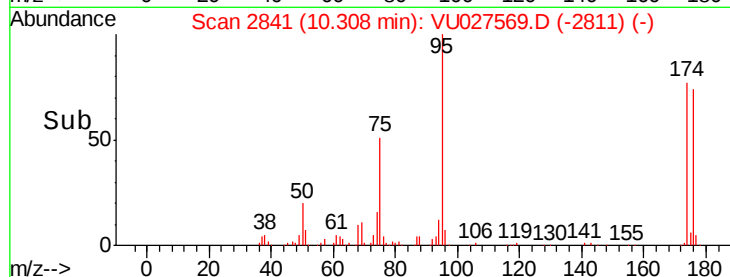
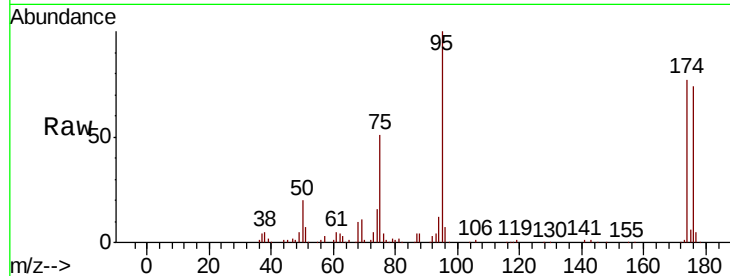
Tgt Ion: 75 Resp: 52745

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0



#89

n-Butylbenzene

Concen: 1.952 ug/l

RT: 11.88 min Scan# 3331

Delta R.T. -0.01 min

Lab File: VU027569.D

Acq: 10 Oct 2018 14:50

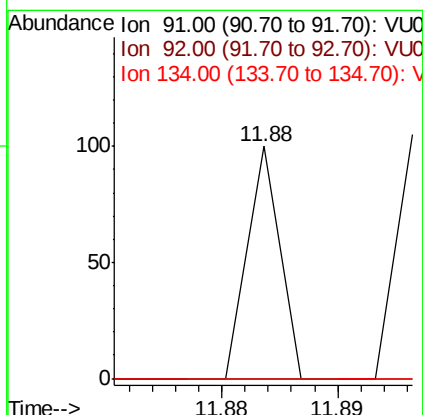
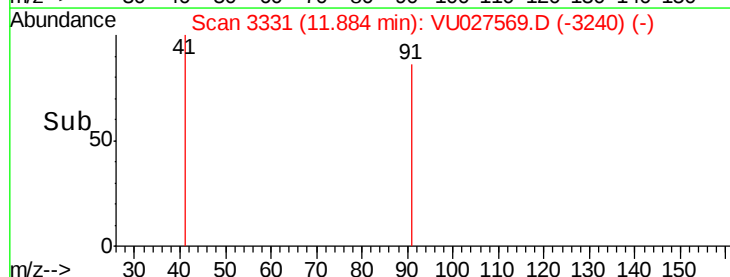
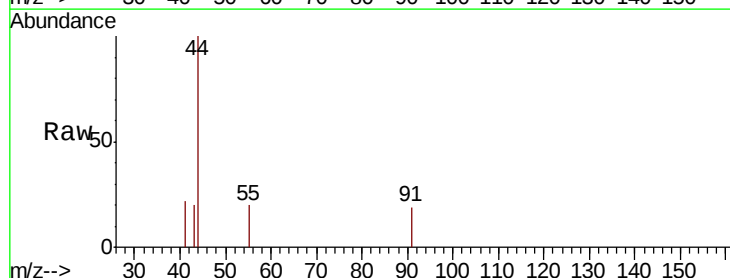
Tgt Ion: 91 Resp: 19

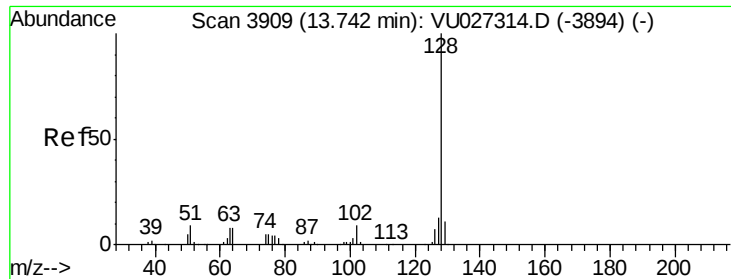
Ion Ratio Lower Upper

91 100

92 0.0 27.0 81.0#

134 0.0 11.7 35.1#





#95

Naphthalene

Concen: 1.712 ug/l

RT: 13.75 min Scan# 3912

Delta R.T. 0.01 min

Lab File: VU027569.D

Acq: 10 Oct 2018 14:50

Instrument :

MSVOA_U

ClientSampleId :

PB113684ZHE#13

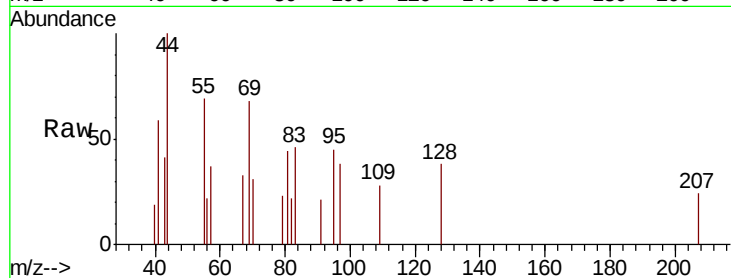
Tgt Ion:128 Resp: 383

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 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

