

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU121118\
 Data File : VU028591.D
 Acq On : 11 Dec 2018 08:05
 Operator : MD/SY
 Sample : J6305-03
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 P001-SW003-01

Quant Time: Dec 11 14:13:30 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U120618W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 07 00:39:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	85452	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	158174	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	141501	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	59679	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	72173	55.35	ug/l	0.00
Spiked Amount			Recovery	=	110.70%	
35) Dibromofluoromethane	4.88	113	53025	53.27	ug/l	0.00
Spiked Amount			Recovery	=	106.54%	
50) Toluene-d8	7.56	98	207009	52.57	ug/l	0.00
Spiked Amount			Recovery	=	105.14%	
62) 4-Bromofluorobenzene	10.30	95	70492	47.90	ug/l	0.00
Spiked Amount			Recovery	=	95.80%	

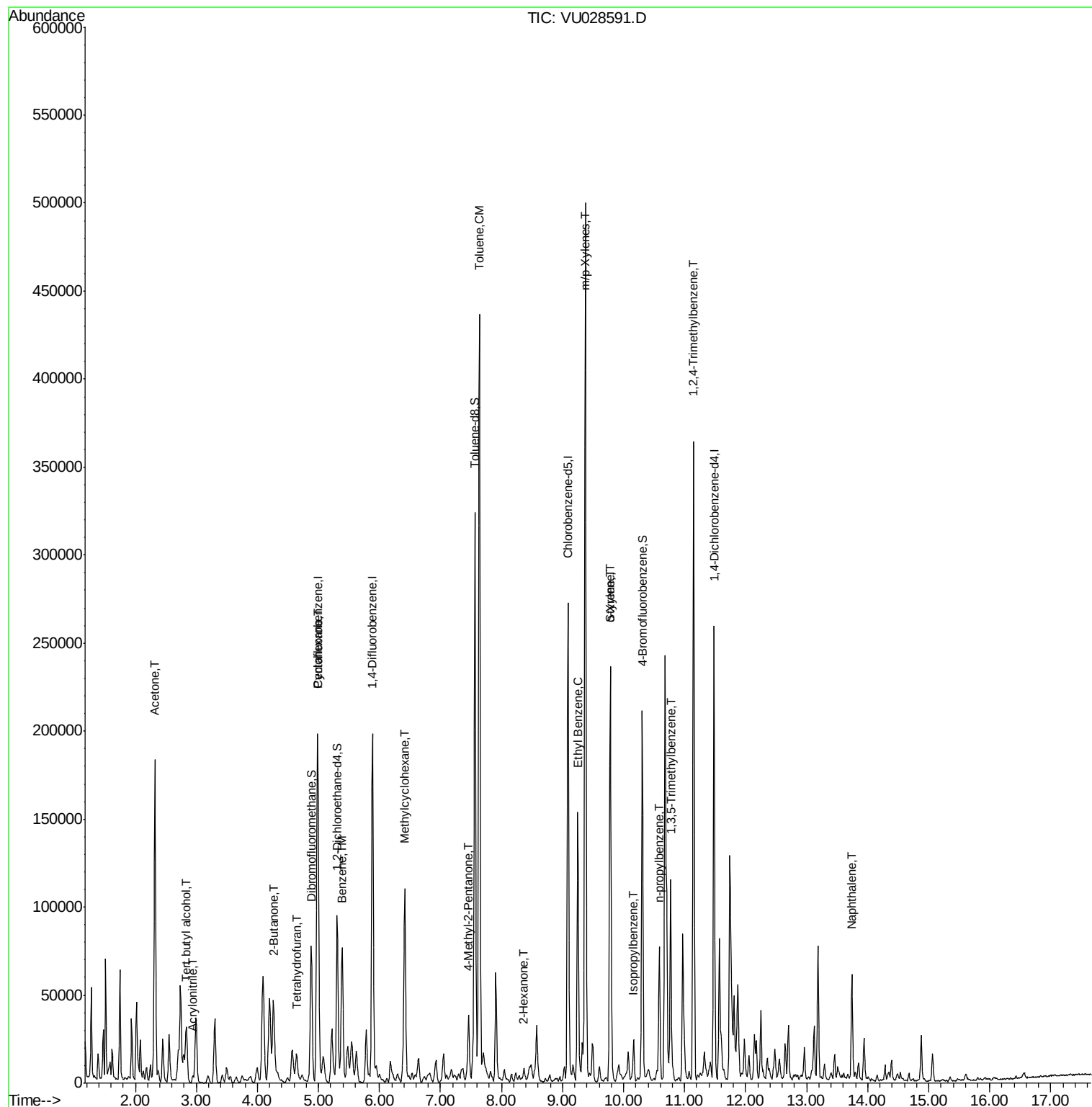
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.83	59	24092	82.922	ug/l #	83
15) Acrylonitrile	2.94	53	3076	3.813	ug/l	90
16) Acetone	2.32	43	189360	222.526	ug/l	100
25) 2-Butanone	4.26	43	72937	62.719	ug/l	99
29) Tetrahydrofuran	4.64	42	12395	16.596	ug/l	97
31) Cyclohexane	4.99	56	45939	19.825	ug/l	95
39) Methylcyclohexane	6.41	83	37715	17.861	ug/l	99
40) Benzene	5.39	78	70994	13.926	ug/l	96
51) 4-Methyl-2-Pentanone	7.46	43	27109	12.145	ug/l	99
52) Toluene	7.64	92	175983	58.658	ug/l	99
59) 2-Hexanone	8.37	43	4034	2.280	ug/l	93
67) Ethyl Benzene	9.25	91	108332	19.544	ug/l	98
68) m/p-Xylenes	9.37	106	131167	65.032	ug/l	95
69) o-Xylene	9.78	106	48673	24.832	ug/l	98
70) Styrene	9.79	104	39552	12.193	ug/l	89
73) Isopropylbenzene	10.17	105	11532	2.518	ug/l	100
78) n-propylbenzene	10.58	91	54223	9.529	ug/l	100
80) 1,3,5-Trimethylbenzene	10.77	105	58040	15.311	ug/l	100
84) 1,2,4-Trimethylbenzene	11.15	105	189250	48.444	ug/l	99
95) Naphthalene	13.74	128	45249	9.322	ug/l	100

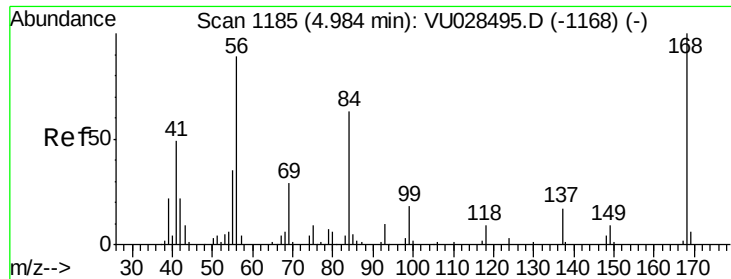
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Dec 07 00:39:42 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VU028591.D

Acq: 11 Dec 2018 08:05

Instrument :

MSVOA_U

ClientSampleId :

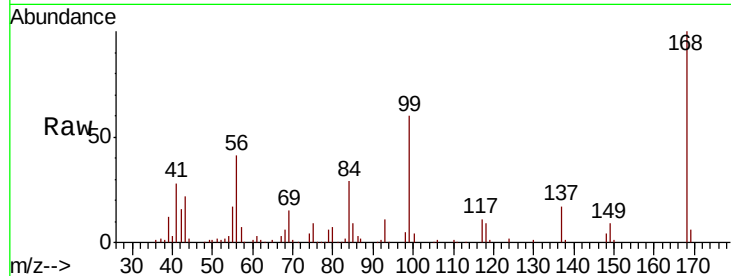
P001-SW003-01

Tot Ion:168 Resp: 85452

Ion Ratio Lower Upper

168 100

99 60.3 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): VU028495.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU028495.D (-1168) (-)

4.98

40000

30000

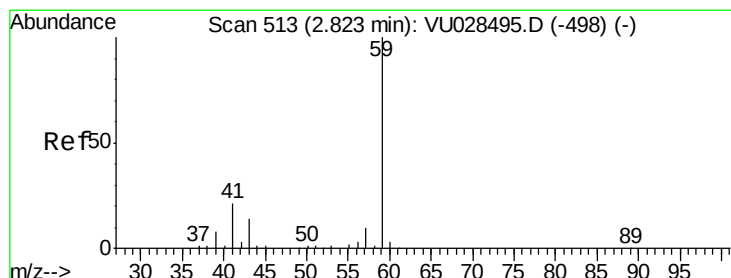
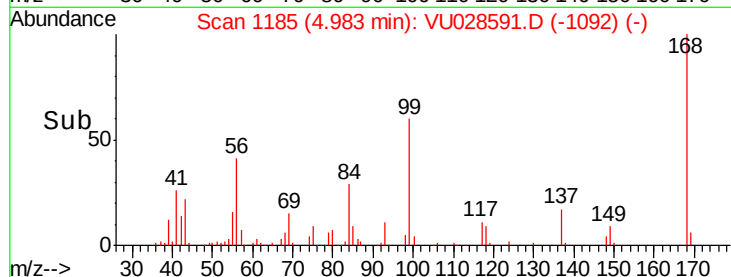
20000

10000

0

4.90 4.95 5.00 5.05

Time-->



#11

Tert butyl alcohol

Concen: 82.922 ug/l

RT: 2.83 min Scan# 516

Delta R.T. 0.01 min

Lab File: VU028591.D

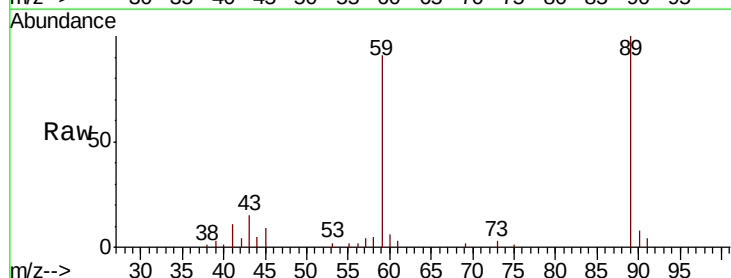
Acq: 11 Dec 2018 08:05

Tgt Ion: 59 Resp: 24092

Ion Ratio Lower Upper

59 100

57 3.7 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU028495.D (-498) (-)

Ion 57.00 (56.70 to 57.70): VU028495.D (-498) (-)

2.83

12000

10000

8000

6000

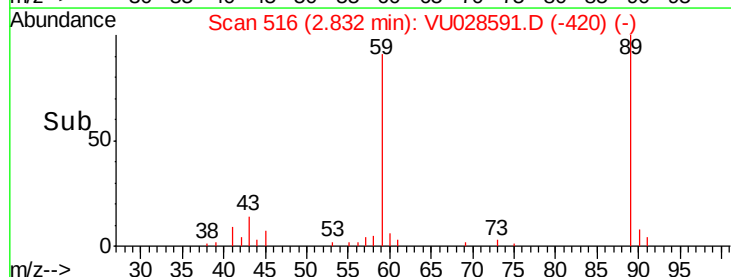
4000

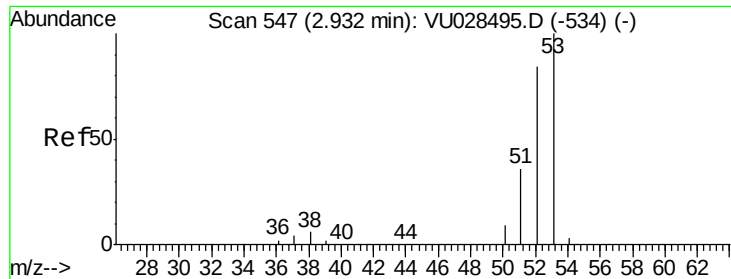
2000

0

2.75 2.80 2.85 2.90

Time-->





#15

Acrylonitrile

Concen: 3.813 ug/l

RT: 2.94 min Scan# 550

Delta R.T. 0.01 min

Lab File: VU028591.D

Acq: 11 Dec 2018 08:05

Instrument :

MSVOA_U

ClientSampleId :

P001-SW003-01

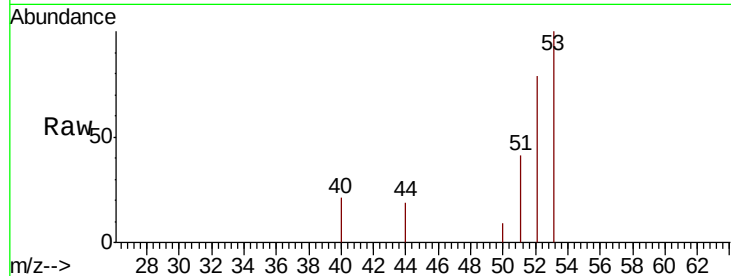
Tot Ion: 53 Resp: 3076

Ion Ratio Lower Upper

53 100

52 93.7 66.1 99.1

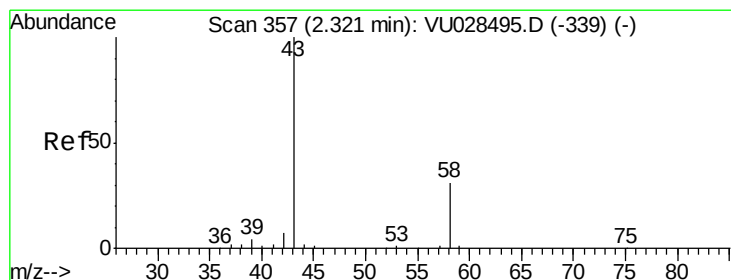
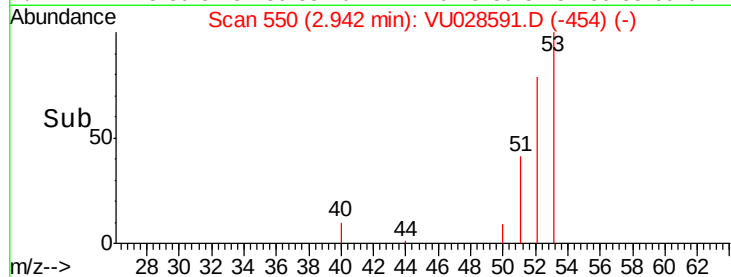
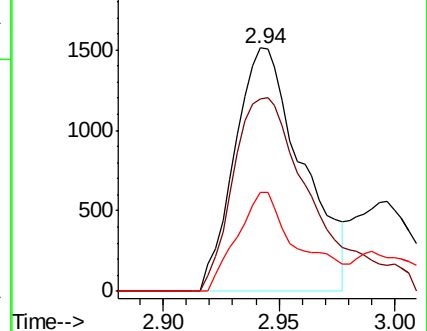
51 37.1 28.1 42.1



Abundance Ion 53.00 (52.70 to 53.70): VU0

Ion 52.00 (51.70 to 52.70): VU0

Ion 51.00 (50.70 to 51.70): VU0



#16

Acetone

Concen: 222.526 ug/l

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU028591.D

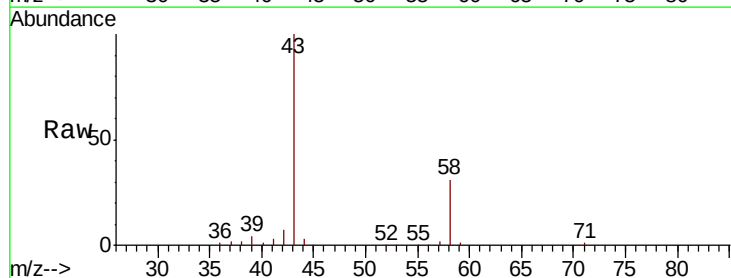
Acq: 11 Dec 2018 08:05

Tgt Ion: 43 Resp: 189360

Ion Ratio Lower Upper

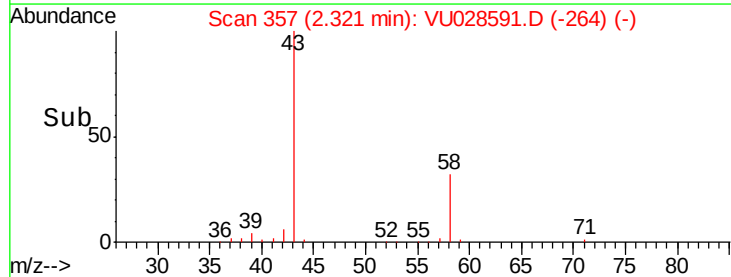
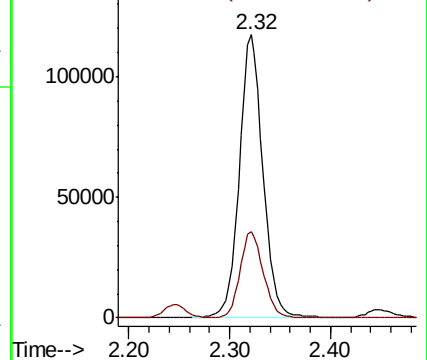
43 100

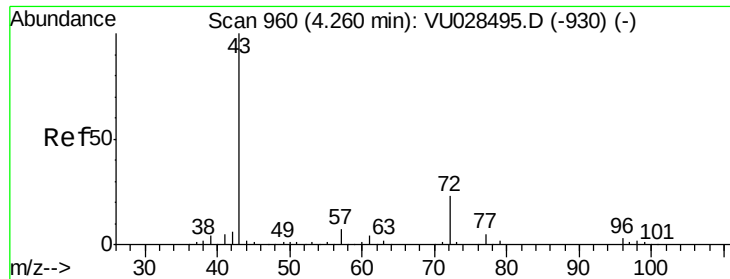
58 30.6 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0





#25

2-Butanone

Concen: 62.719 ug/l

RT: 4.26 min Scan# 961

Delta R.T. 0.00 min

Lab File: VU028591.D

Acq: 11 Dec 2018 08:05

Instrument :

MSVOA_U

ClientSampleId :

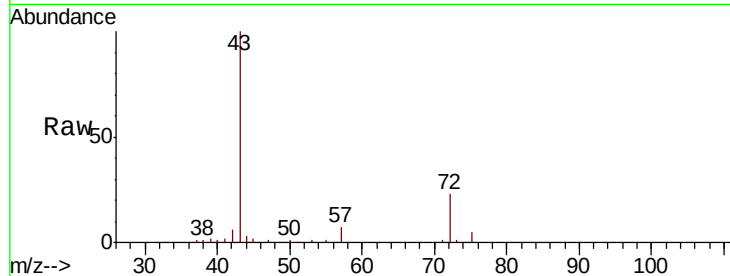
P001-SW003-01

Tot Ion: 43 Resp: 72937

Ion Ratio Lower Upper

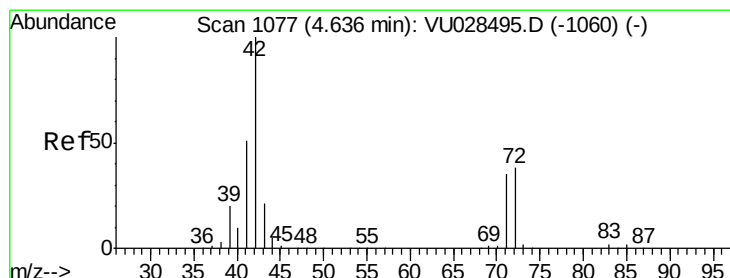
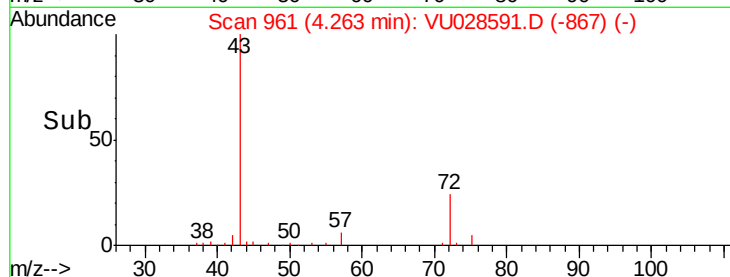
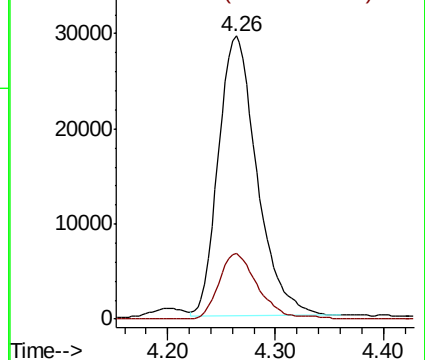
43 100

72 23.6 18.6 28.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0



#29

Tetrahydrofuran

Concen: 16.596 ug/l

RT: 4.64 min Scan# 1079

Delta R.T. 0.01 min

Lab File: VU028591.D

Acq: 11 Dec 2018 08:05

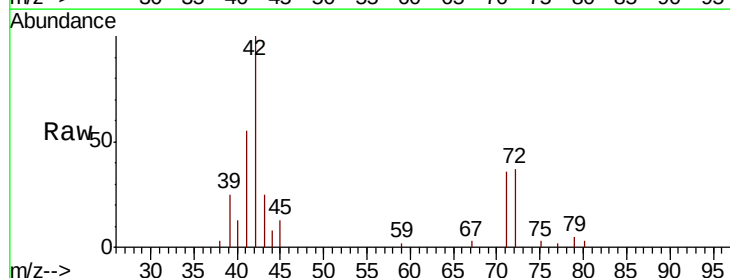
Tgt Ion: 42 Resp: 12395

Ion Ratio Lower Upper

42 100

72 37.6 31.4 47.0

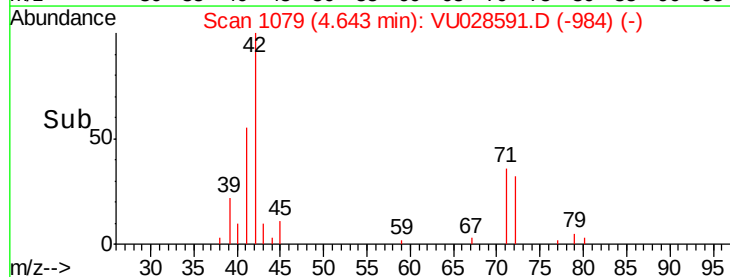
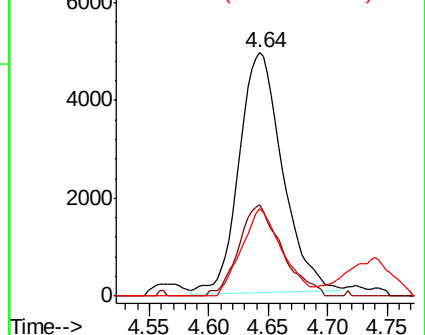
71 33.8 28.6 43.0

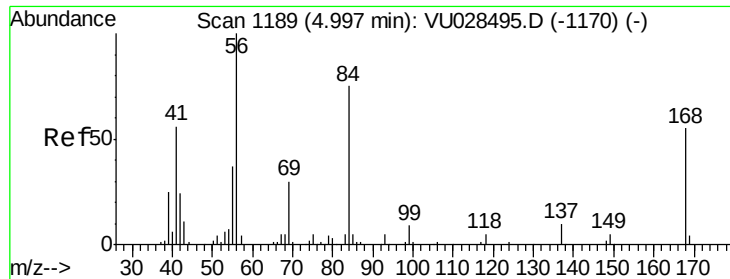


Abundance Ion 42.00 (41.70 to 42.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

Ion 71.00 (70.70 to 71.70): VU0

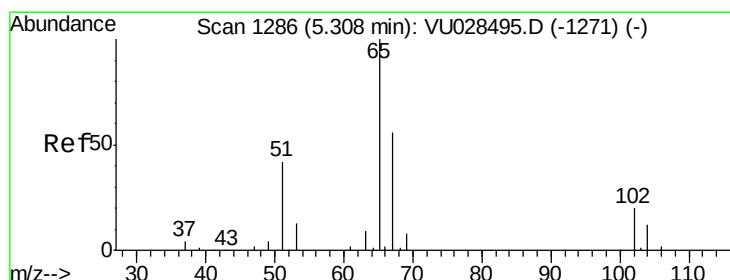
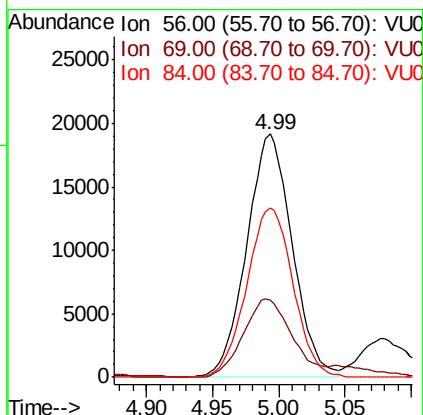
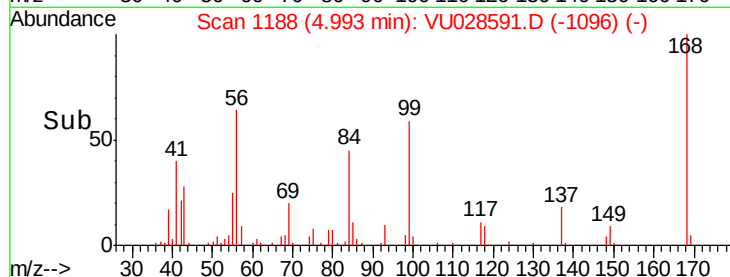
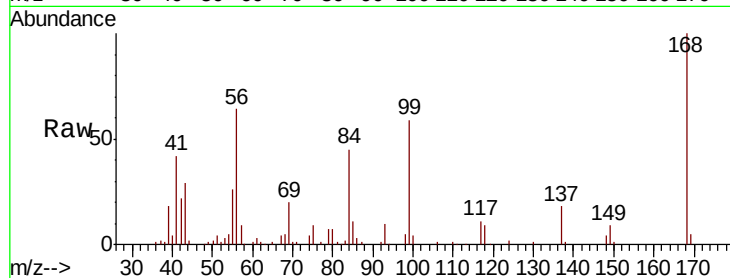




#31
Cyclohexane
Concen: 19.825 ug/l
RT: 4.99 min Scan# 1188
Delta R.T. -0.00 min
Lab File: VU028591.D
Acq: 11 Dec 2018 08:05

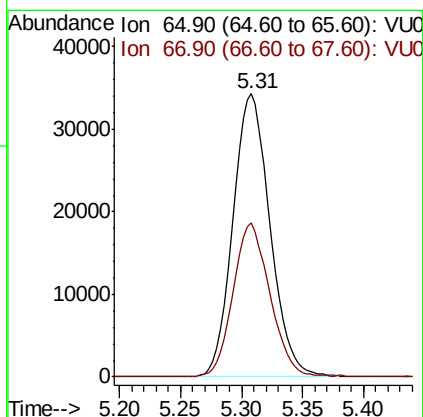
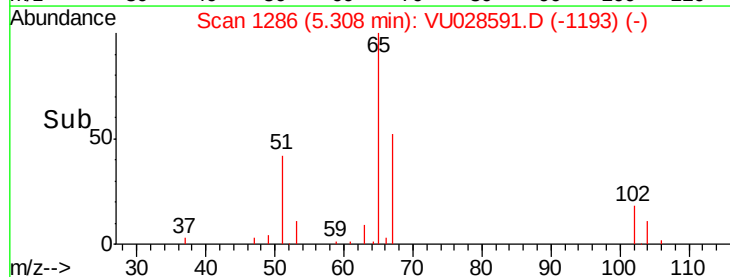
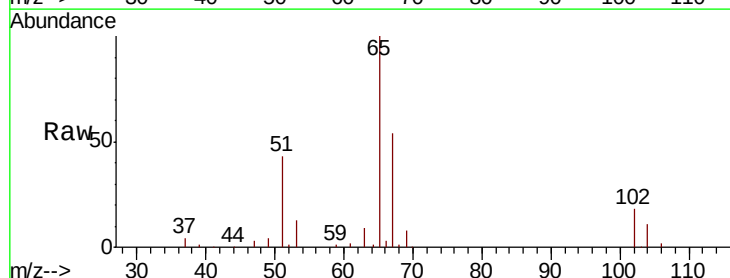
Instrument :
MSVOA_U
ClientSampleId :
P001-SW003-01

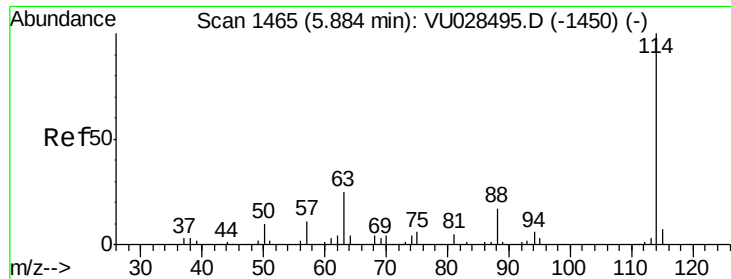
Tot Ion: 56 Resp: 45939
Ion Ratio Lower Upper
56 100
69 31.6 24.0 36.0
84 69.3 59.7 89.5



#33
1,2-Dichloroethane-d4
Concen: 55.345 ug/l
RT: 5.31 min Scan# 1286
Delta R.T. -0.00 min
Lab File: VU028591.D
Acq: 11 Dec 2018 08:05

Tgt Ion: 65 Resp: 72173
Ion Ratio Lower Upper
65 100
67 54.1 0.0 110.6

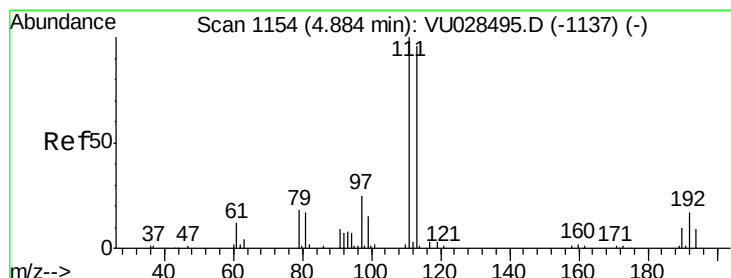
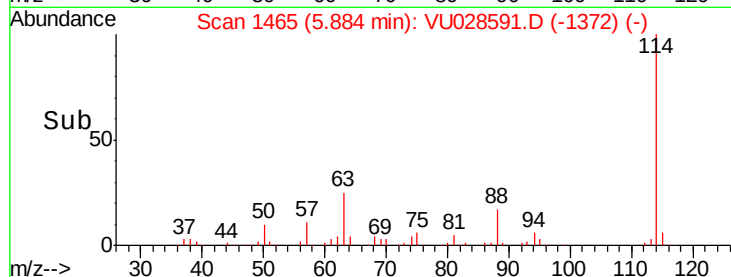
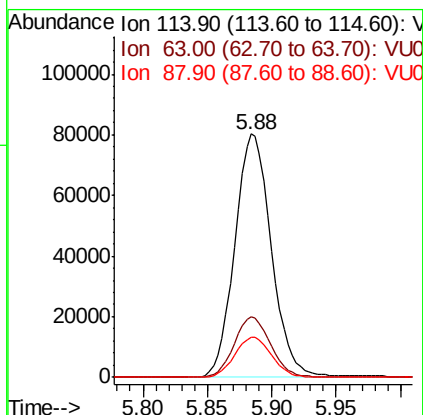
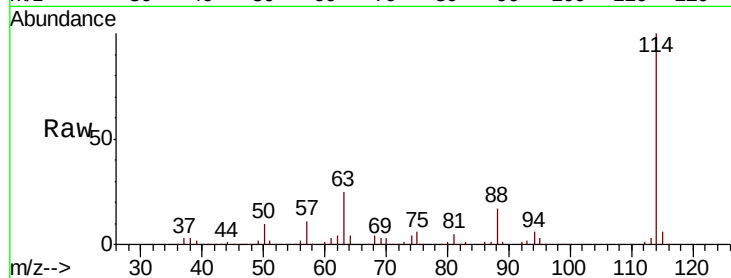




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. -0.00 min
 Lab File: VU028591.D
 Acq: 11 Dec 2018 08:05

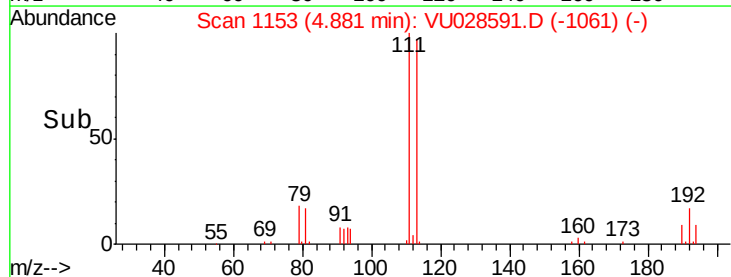
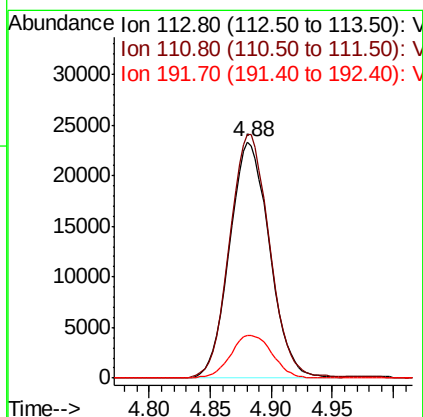
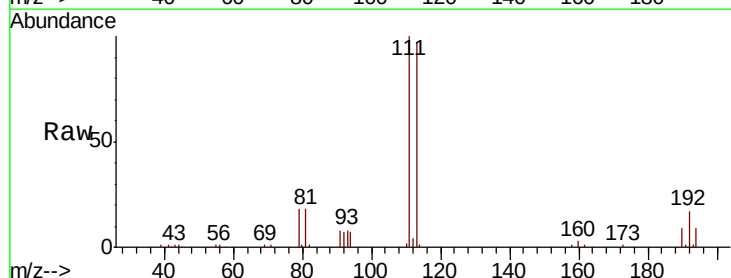
Instrument :
 MSVOA_U
 ClientSampleId :
 P001-SW003-01

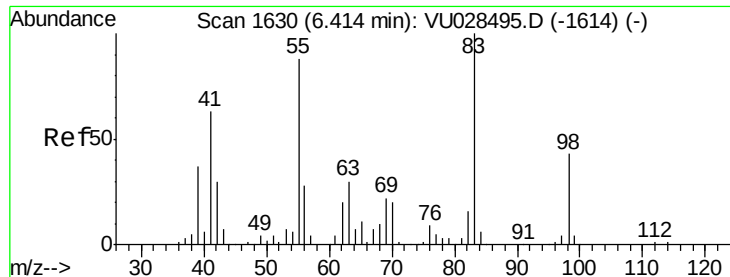
Tot Ion:114 Resp: 158174
 Ion Ratio Lower Upper
 114 100
 63 24.8 0.0 49.2
 88 16.5 0.0 33.4



#35
 Dibromofluoromethane
 Concen: 53.270 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. -0.00 min
 Lab File: VU028591.D
 Acq: 11 Dec 2018 08:05

Tgt Ion:113 Resp: 53025
 Ion Ratio Lower Upper
 113 100
 111 103.2 83.4 125.0
 192 18.7 14.8 22.2

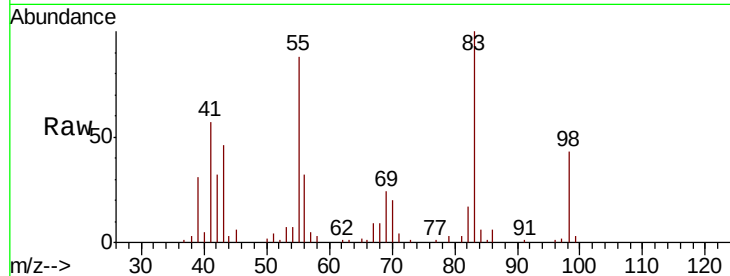




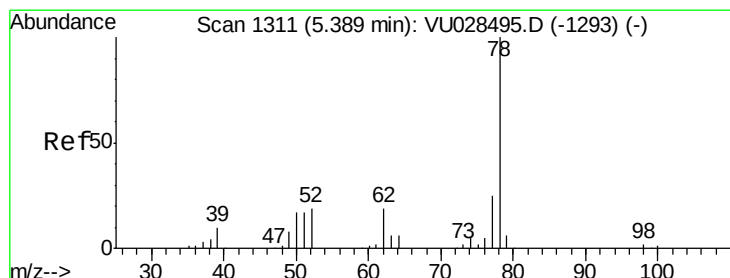
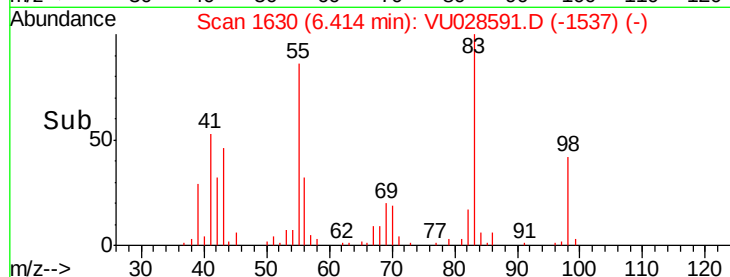
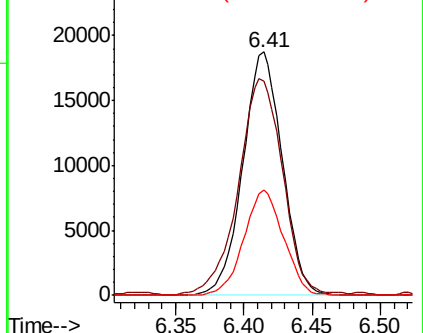
#39
Methylvlcyclohexane
Concen: 17.861 ug/l
RT: 6.41 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VU028591.D
Acq: 11 Dec 2018 08:05

Instrument :
MSVOA_U
ClientSampleId :
P001-SW003-01

Tot Ion: 83 Resp: 37715
Ion Ratio Lower Upper
83 100
55 86.6 70.2 105.2
98 43.3 34.2 51.4

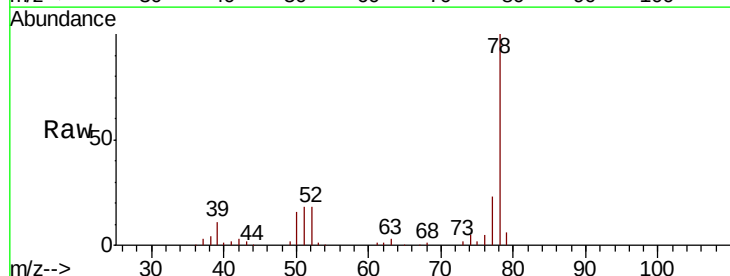


Abundance Ion 83.00 (82.70 to 83.70): VU0
Ion 55.00 (54.70 to 55.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

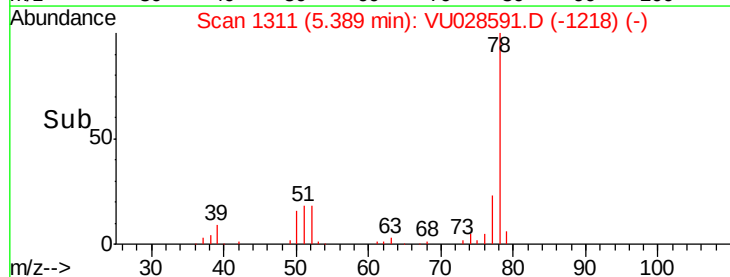
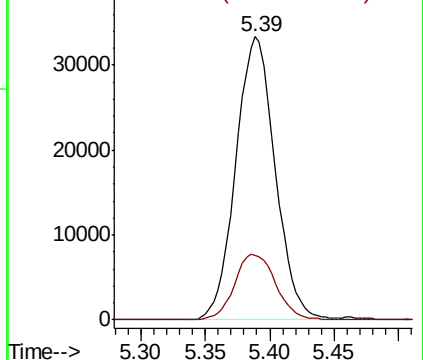


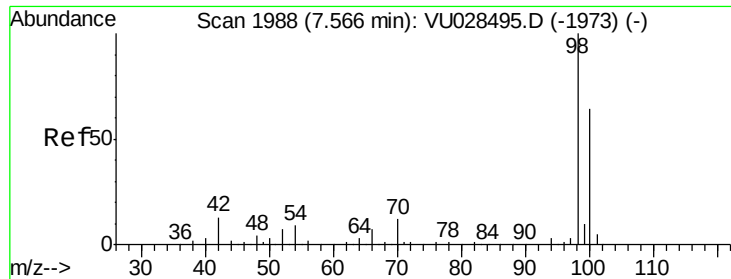
#40
Benzene
Concen: 13.926 ug/l
RT: 5.39 min Scan# 1311
Delta R.T. -0.00 min
Lab File: VU028591.D
Acq: 11 Dec 2018 08:05

Tgt Ion: 78 Resp: 70994
Ion Ratio Lower Upper
78 100
77 23.0 19.9 29.9



Abundance Ion 78.00 (77.70 to 78.70): VU0
Ion 77.00 (76.70 to 77.70): VU0

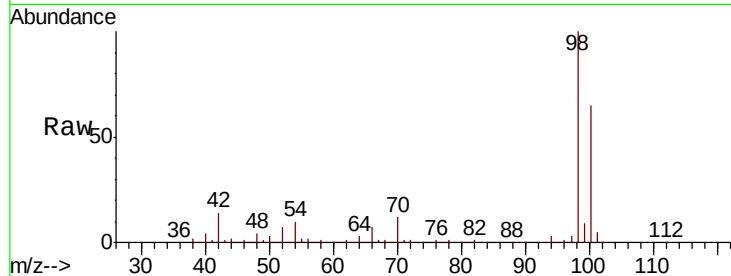




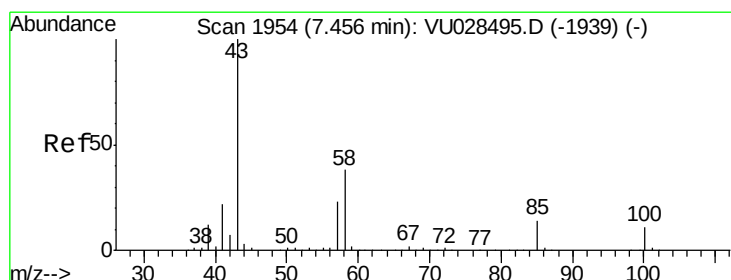
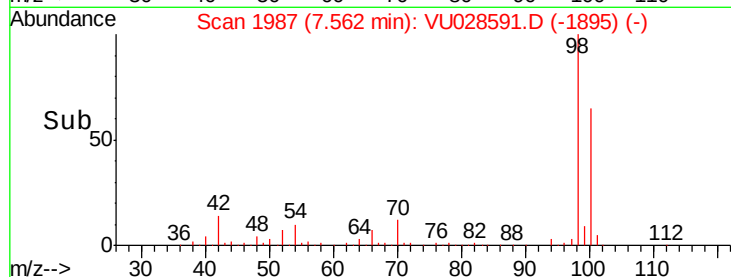
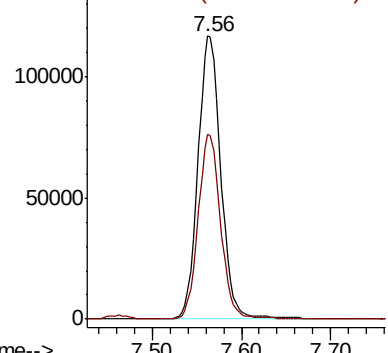
#50
Toluene-d8
Concen: 52.572 ug/l
RT: 7.56 min Scan# 1987
Delta R.T. -0.00 min
Lab File: VU028591.D
Acq: 11 Dec 2018 08:05

Instrument :
MSVOA_U
ClientSampleId :
P001-SW003-01

Tot Ion: 98 Resp: 207009
Ion Ratio Lower Upper
98 100
100 64.0 51.0 76.6

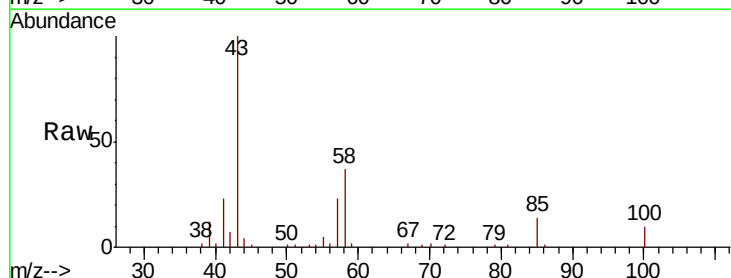


Abundance Ion 98.00 (97.70 to 98.70): VU028495.D (-1973) (-)
Ion 100.00 (99.70 to 100.70): VU028495.D (-1973) (-)

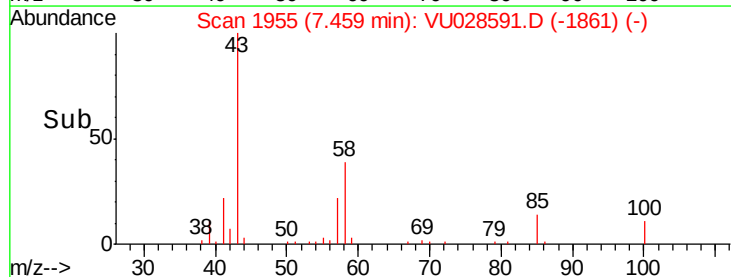
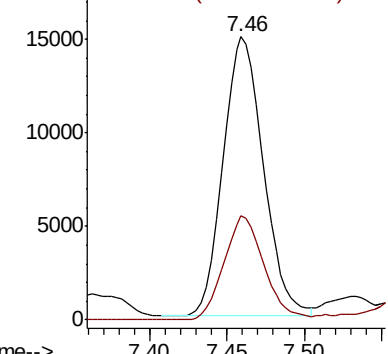


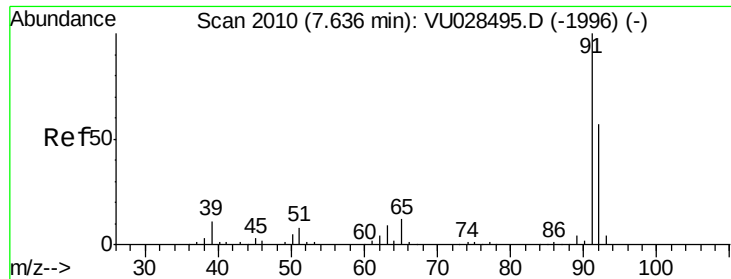
#51
4-Methyl-2-Pentanone
Concen: 12.145 ug/l
RT: 7.46 min Scan# 1955
Delta R.T. 0.00 min
Lab File: VU028591.D
Acq: 11 Dec 2018 08:05

Tgt Ion: 43 Resp: 27109
Ion Ratio Lower Upper
43 100
58 37.0 30.2 45.2



Abundance Ion 43.00 (42.70 to 43.70): VU028495.D (-1939) (-)
Ion 58.00 (57.70 to 58.70): VU028495.D (-1939) (-)





#52

Toluene

Concen: 58.658 ug/l

RT: 7.64 min Scan# 2010

Delta R.T. -0.00 min

Lab File: VU028591.D

Acq: 11 Dec 2018 08:05

Instrument :

MSVOA_U

ClientSampleId :

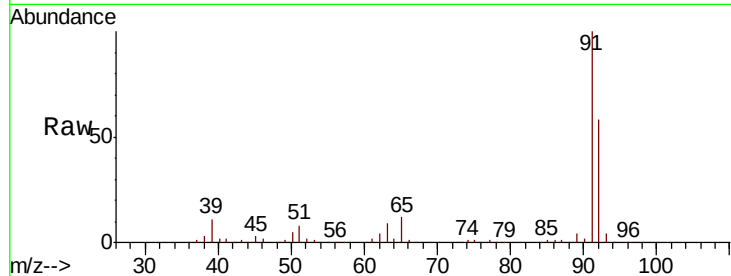
P001-SW003-01

Tot Ion: 92 Resp: 175983

Ion Ratio Lower Upper

92 100

91 174.0 140.2 210.4



Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0

200000

150000

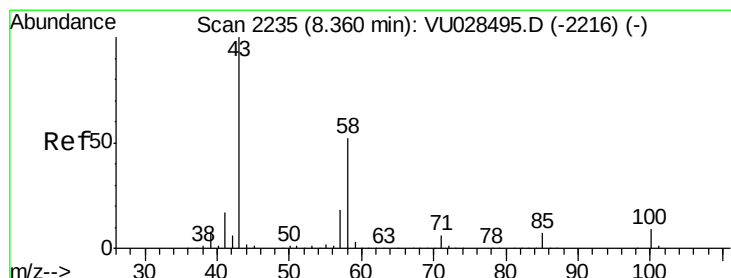
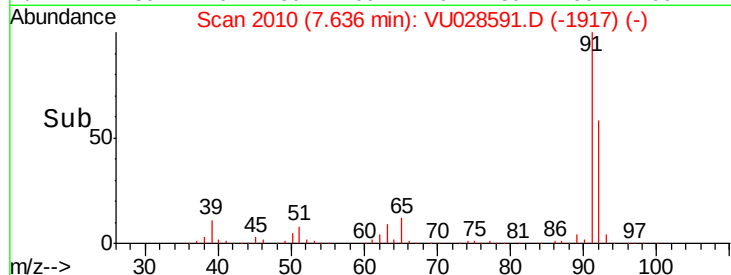
100000

50000

0

7.60 7.70

Time-->



#59

2-Hexanone

Concen: 2.280 ug/l

RT: 8.37 min Scan# 2237

Delta R.T. 0.01 min

Lab File: VU028591.D

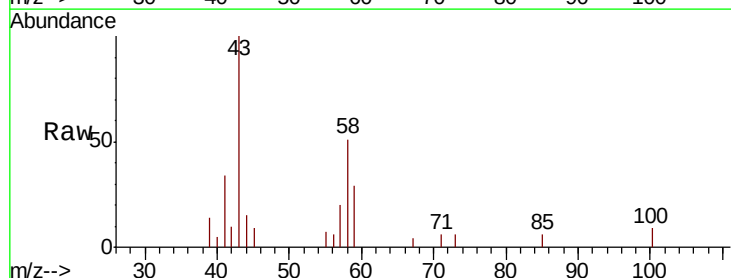
Acq: 11 Dec 2018 08:05

Tgt Ion: 43 Resp: 4034

Ion Ratio Lower Upper

43 100

58 56.5 25.9 77.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

3000

2500

2000

1500

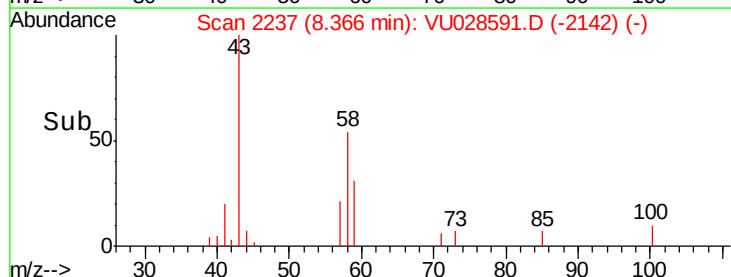
1000

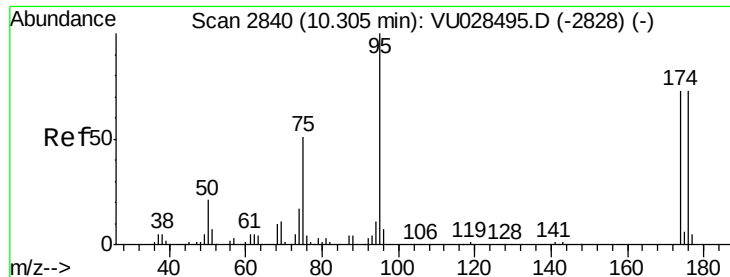
500

0

8.35 8.40

Time-->





#62

4-Bromofluorobenzene

Concen: 47.897 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.00 min

Lab File: VU028591.D

Acq: 11 Dec 2018 08:05

Instrument :

MSVOA_U

ClientSampleId :

P001-SW003-01

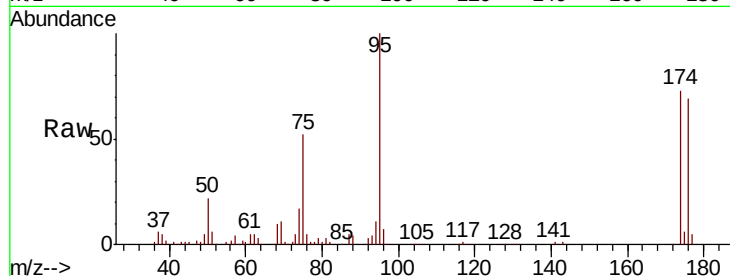
Tot Ion: 95 Resp: 70492

Ion Ratio Lower Upper

95 100

174 72.3 0.0 150.4

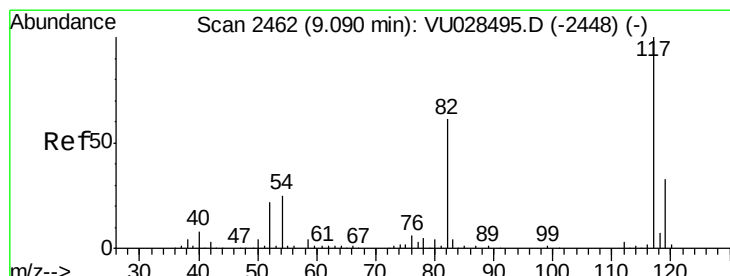
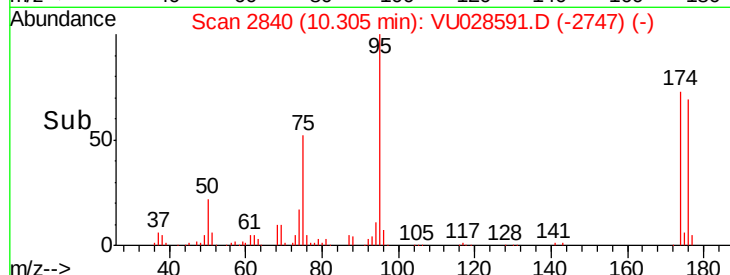
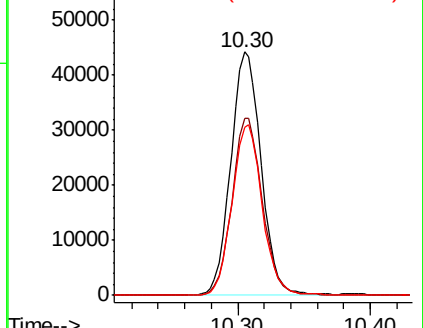
176 69.5 0.0 145.2



Abundance Ion 94.90 (94.60 to 95.60): VU028495.D (-2828) (-)

Ion 173.80 (173.50 to 174.50): VU028495.D (-2828) (-)

Ion 175.80 (175.50 to 176.50): VU028495.D (-2828) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2462

Delta R.T. -0.00 min

Lab File: VU028591.D

Acq: 11 Dec 2018 08:05

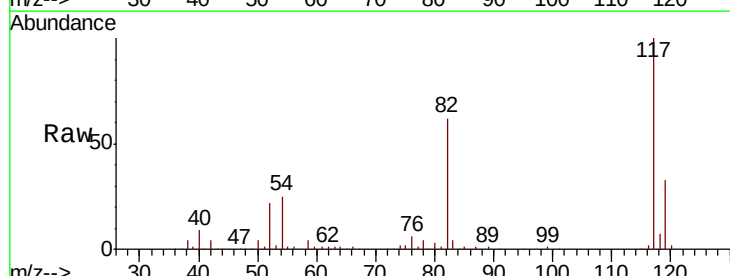
Tgt Ion: 117 Resp: 141501

Ion Ratio Lower Upper

117 100

82 61.6 48.9 73.3

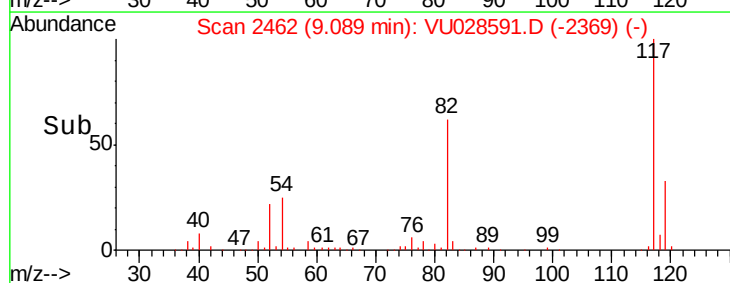
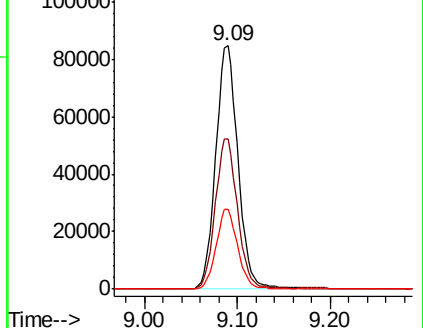
119 32.5 26.2 39.4

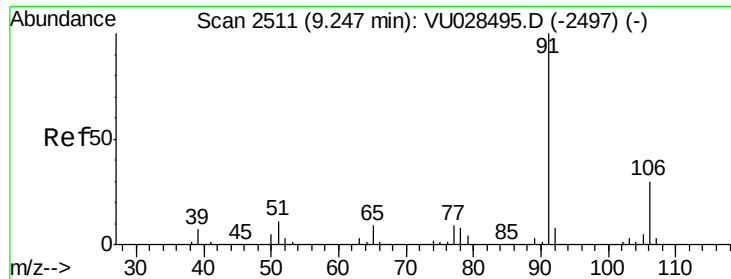


Abundance Ion 116.90 (116.60 to 117.60): VU028495.D (-2448) (-)

Ion 82.00 (81.70 to 82.70): VU028495.D (-2448) (-)

Ion 118.90 (118.60 to 119.60): VU028495.D (-2448) (-)

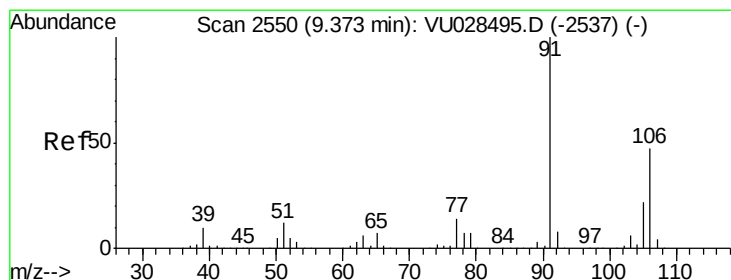
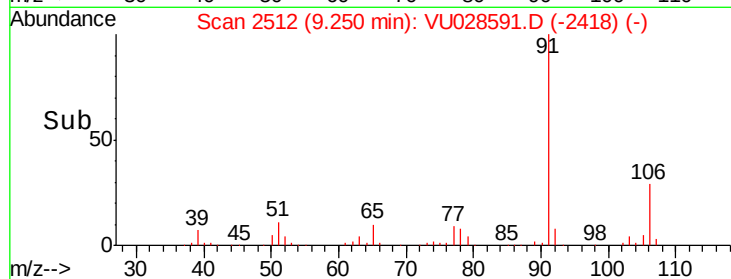
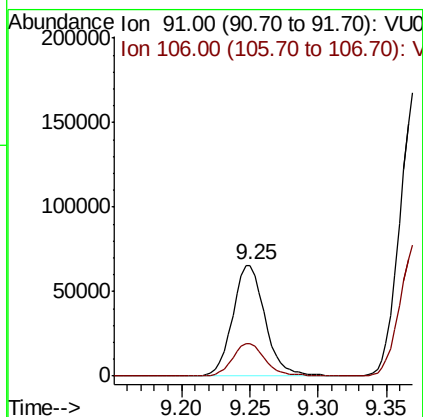
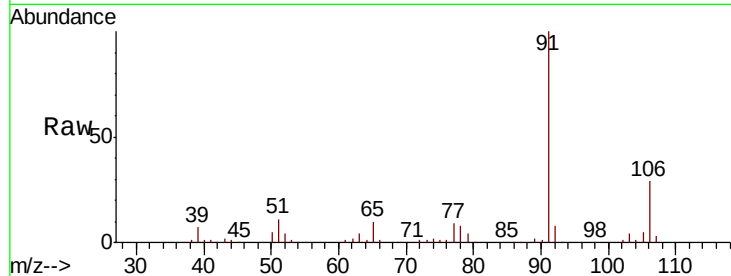




#67
Ethyl Benzene
Concen: 19.544 ug/l
RT: 9.25 min Scan# 2512
Delta R.T. 0.00 min
Lab File: VU028591.D
Acq: 11 Dec 2018 08:05

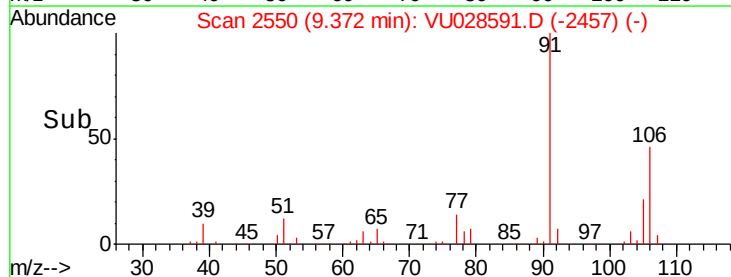
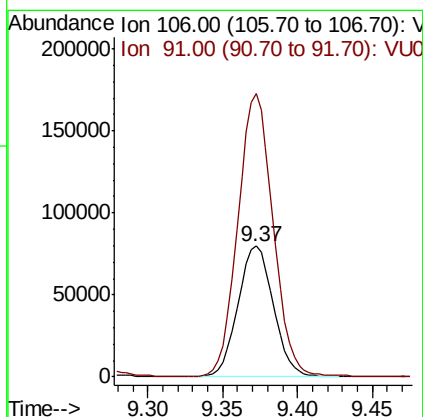
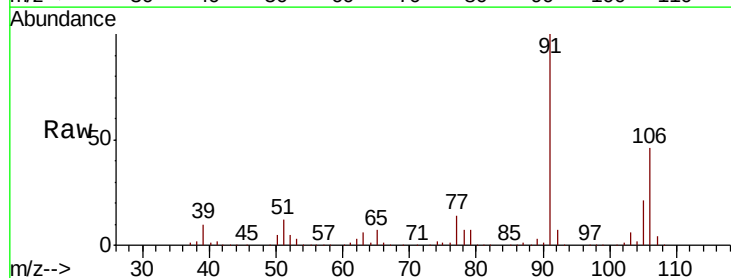
Instrument :
MSVOA_U
ClientSampleId :
P001-SW003-01

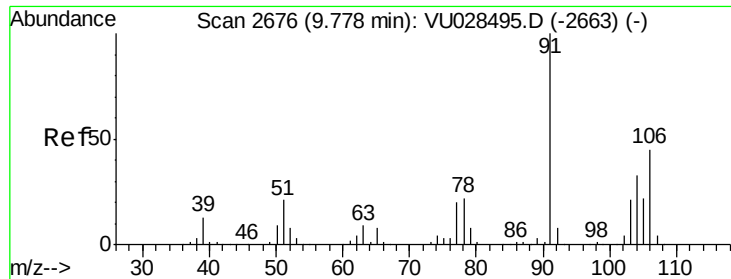
Tot Ion: 91 Resp: 108332
Ion Ratio Lower Upper
91 100
106 29.3 24.1 36.1



#68
m/p-Xylenes
Concen: 65.032 ug/l
RT: 9.37 min Scan# 2550
Delta R.T. -0.00 min
Lab File: VU028591.D
Acq: 11 Dec 2018 08:05

Tgt Ion: 106 Resp: 131167
Ion Ratio Lower Upper
106 100
91 216.5 167.4 251.0

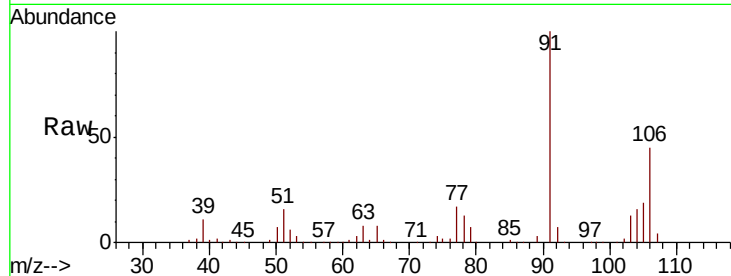




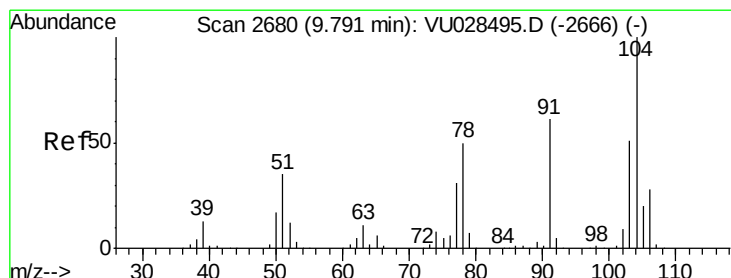
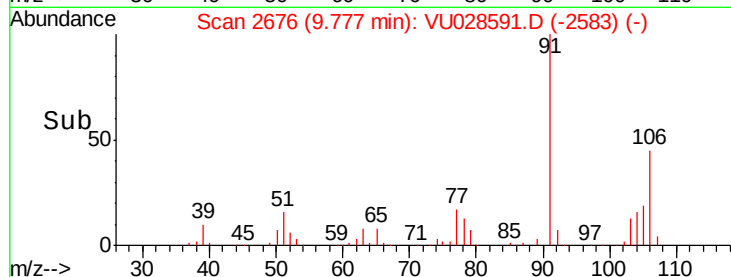
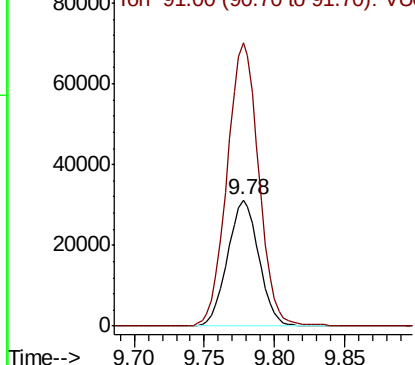
#69
o-Xylene
Concen: 24.832 ug/l
RT: 9.78 min Scan# 2676
Delta R.T. -0.00 min
Lab File: VU028591.D
Acq: 11 Dec 2018 08:05

Instrument :
MSVOA_U
ClientSampleId :
P001-SW003-01

Tot Ion:106 Resp: 48673
Ion Ratio Lower Upper
106 100
91 226.5 111.3 334.0

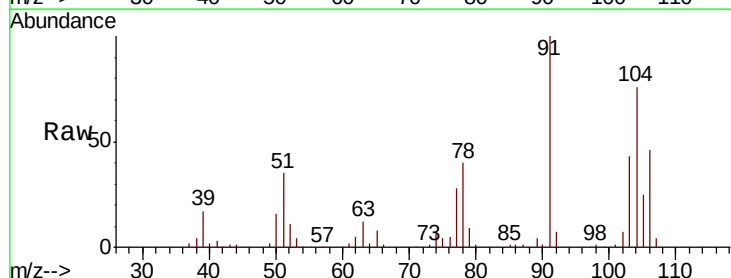


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

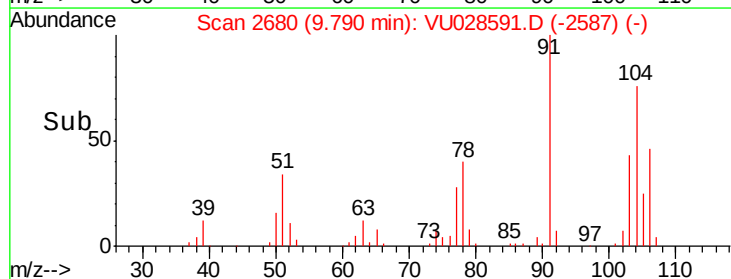
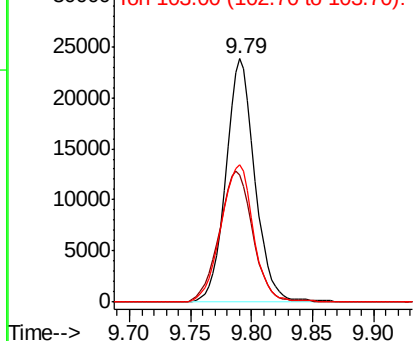


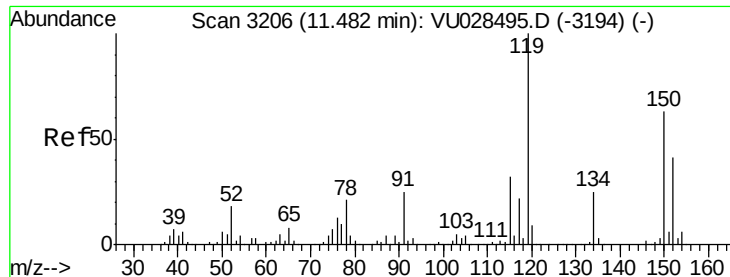
#70
Styrene
Concen: 12.193 ug/l
RT: 9.79 min Scan# 2680
Delta R.T. -0.00 min
Lab File: VU028591.D
Acq: 11 Dec 2018 08:05

Tgt Ion:104 Resp: 39552
Ion Ratio Lower Upper
104 100
78 62.0 43.0 64.6
103 63.0 44.2 66.4



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3206

Delta R.T. -0.00 min

Lab File: VU028591.D

Acq: 11 Dec 2018 08:05

Instrument :

MSVOA_U

ClientSampleId :

P001-SW003-01

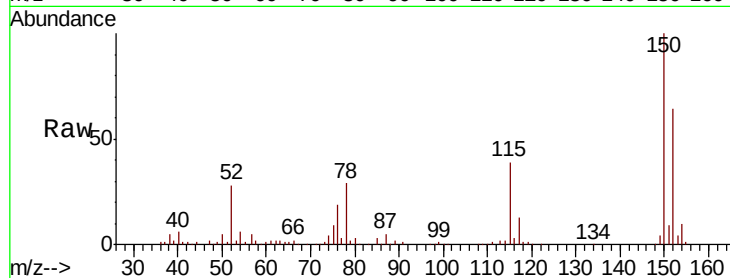
Tot Ion:152 Resp: 59679

Ion Ratio Lower Upper

152 100

115 61.0 42.7 128.1

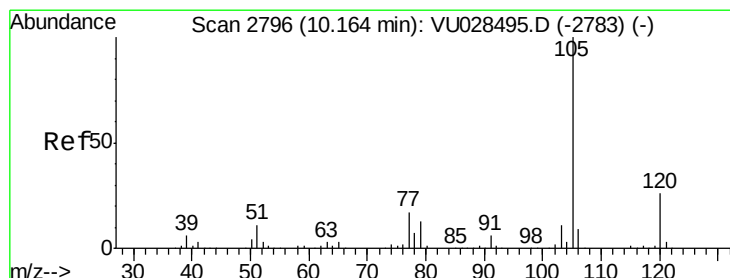
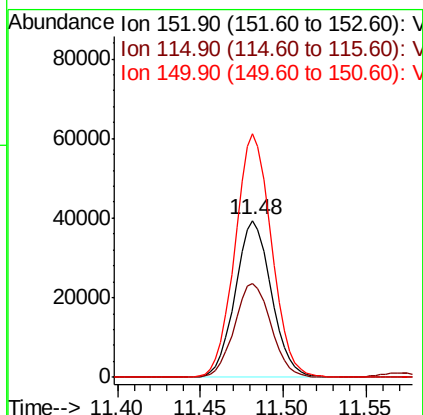
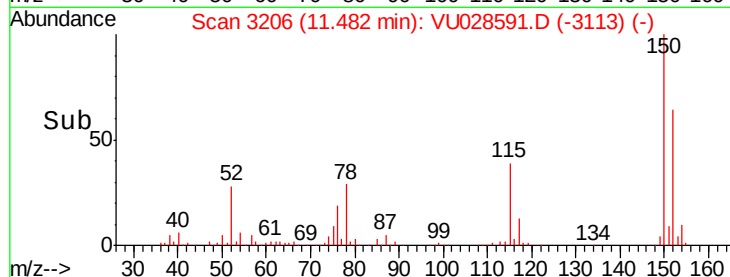
150 156.8 0.0 346.0



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: 2.518 ug/l

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU028591.D

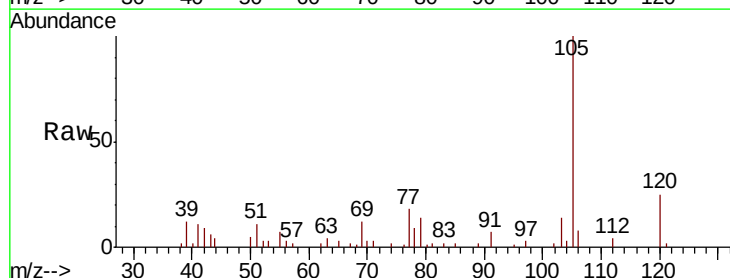
Acq: 11 Dec 2018 08:05

Tgt Ion:105 Resp: 11532

Ion Ratio Lower Upper

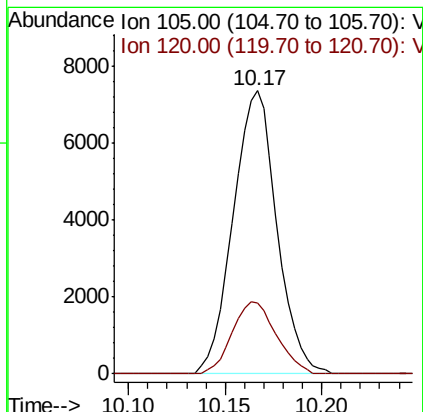
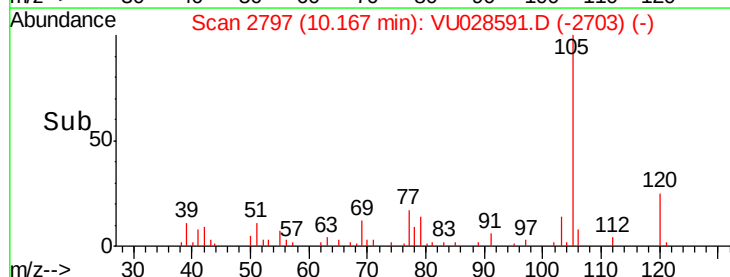
105 100

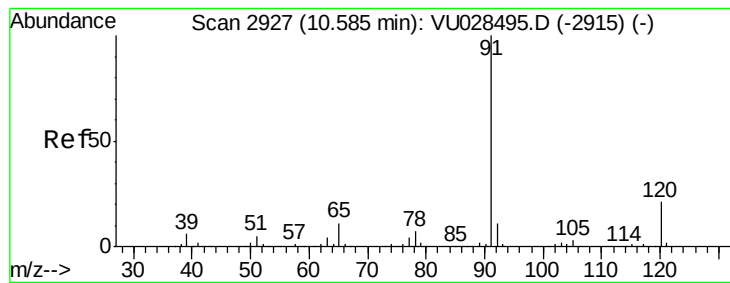
120 25.7 12.9 38.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 9.529 ug/l

RT: 10.58 min Scan# 2927

Delta R.T. -0.00 min

Lab File: VU028591.D

Acq: 11 Dec 2018 08:05

Instrument :

MSVOA_U

ClientSampleId :

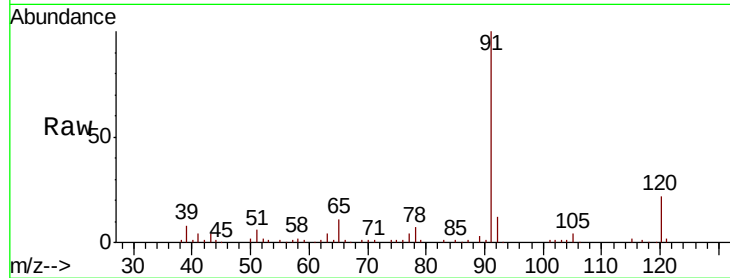
P001-SW003-01

Tot Ion: 91 Resp: 54223

Ion Ratio Lower Upper

91 100

120 21.1 10.6 31.8



Abundance Ion 91.00 (90.70 to 91.70): VU028495.D (-2915) (-)

Ion 120.00 (119.70 to 120.70): VU028495.D (-2915) (-)

10.58

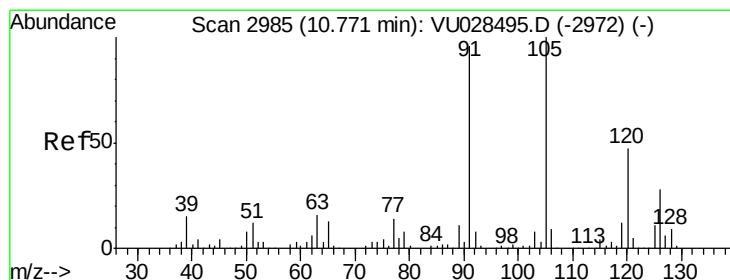
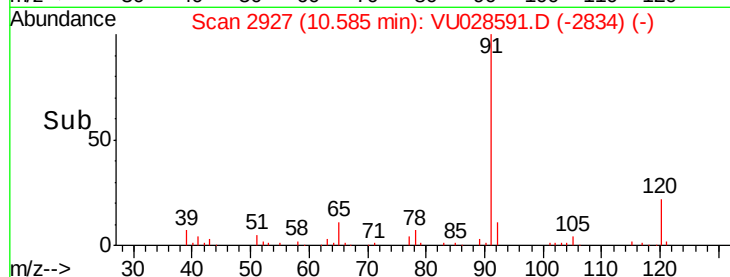
30000

20000

10000

0

Time--> 10.50 10.55 10.60 10.65



#80

1,3,5-Trimethylbenzene

Concen: 15.311 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. -0.00 min

Lab File: VU028591.D

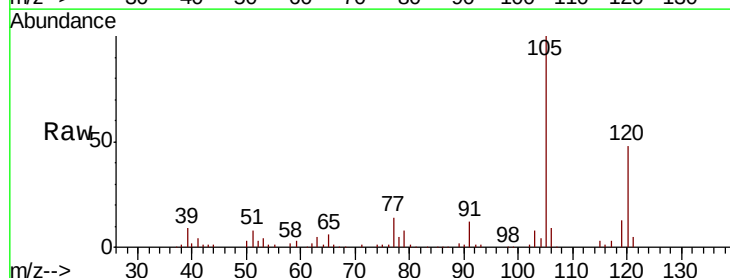
Acq: 11 Dec 2018 08:05

Tgt Ion: 105 Resp: 58040

Ion Ratio Lower Upper

105 100

120 47.2 23.7 71.1



Abundance Ion 105.00 (104.70 to 105.70): VU028495.D (-2972) (-)

Ion 120.00 (119.70 to 120.70): VU028495.D (-2972) (-)

10.77

60000

50000

40000

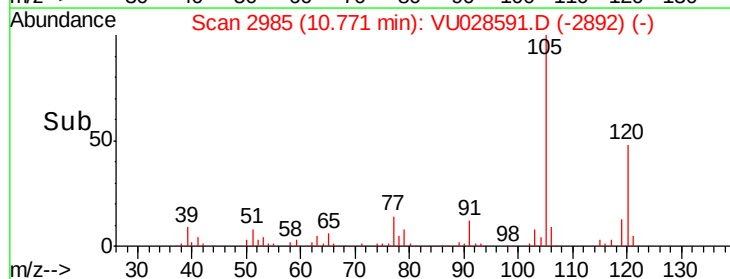
30000

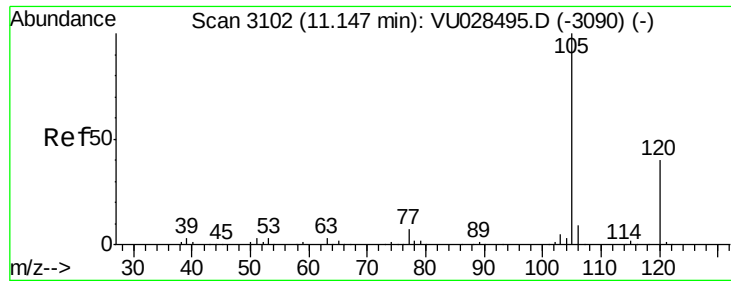
20000

10000

0

Time--> 10.70 10.75 10.80 10.85

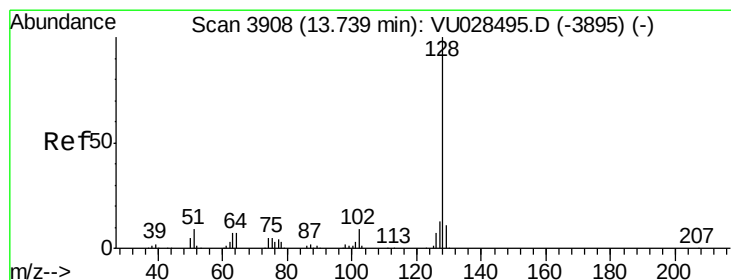
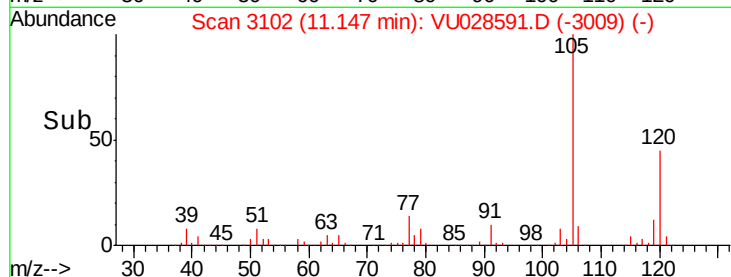
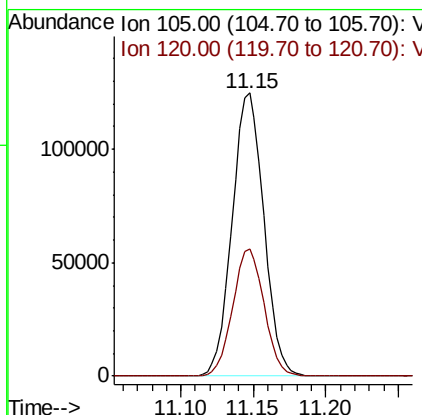
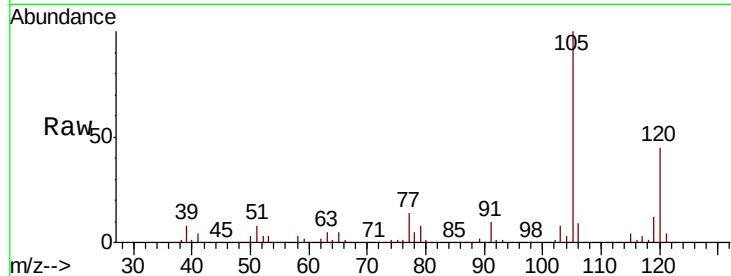




#84
 1,2,4-Trimethylbenzene
 Concen: 48.444 ug/l
 RT: 11.15 min Scan# 3102
 Delta R.T. -0.00 min
 Lab File: VU028591.D
 Acq: 11 Dec 2018 08:05

Instrument :
 MSVOA_U
 ClientSampleId :
 P001-SW003-01

Tot Ion:105 Resp: 189250
 Ion Ratio Lower Upper
 105 100
 120 44.4 21.8 65.4



#95
 Naphthalene
 Concen: 9.322 ug/l
 RT: 13.74 min Scan# 3909
 Delta R.T. 0.00 min
 Lab File: VU028591.D
 Acq: 11 Dec 2018 08:05

Tgt Ion:128 Resp: 45249
 Ion Ratio Lower Upper
 128 100
 127 12.7 10.4 15.6
 129 10.7 8.6 13.0

