

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU121118\
 Data File : VU028592.D
 Acq On : 11 Dec 2018 08:29
 Operator : MD/SY
 Sample : J6305-08
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 P001-SW005-01

Quant Time: Dec 11 14:14:25 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	87711	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	160831	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	145947	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	63982	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	72500	54.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.32%	
35) Dibromofluoromethane	4.88	113	53892	53.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.50%	
50) Toluene-d8	7.56	98	210266	52.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.04%	
62) 4-Bromofluorobenzene	10.30	95	73519	49.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.26%	

Target Compounds

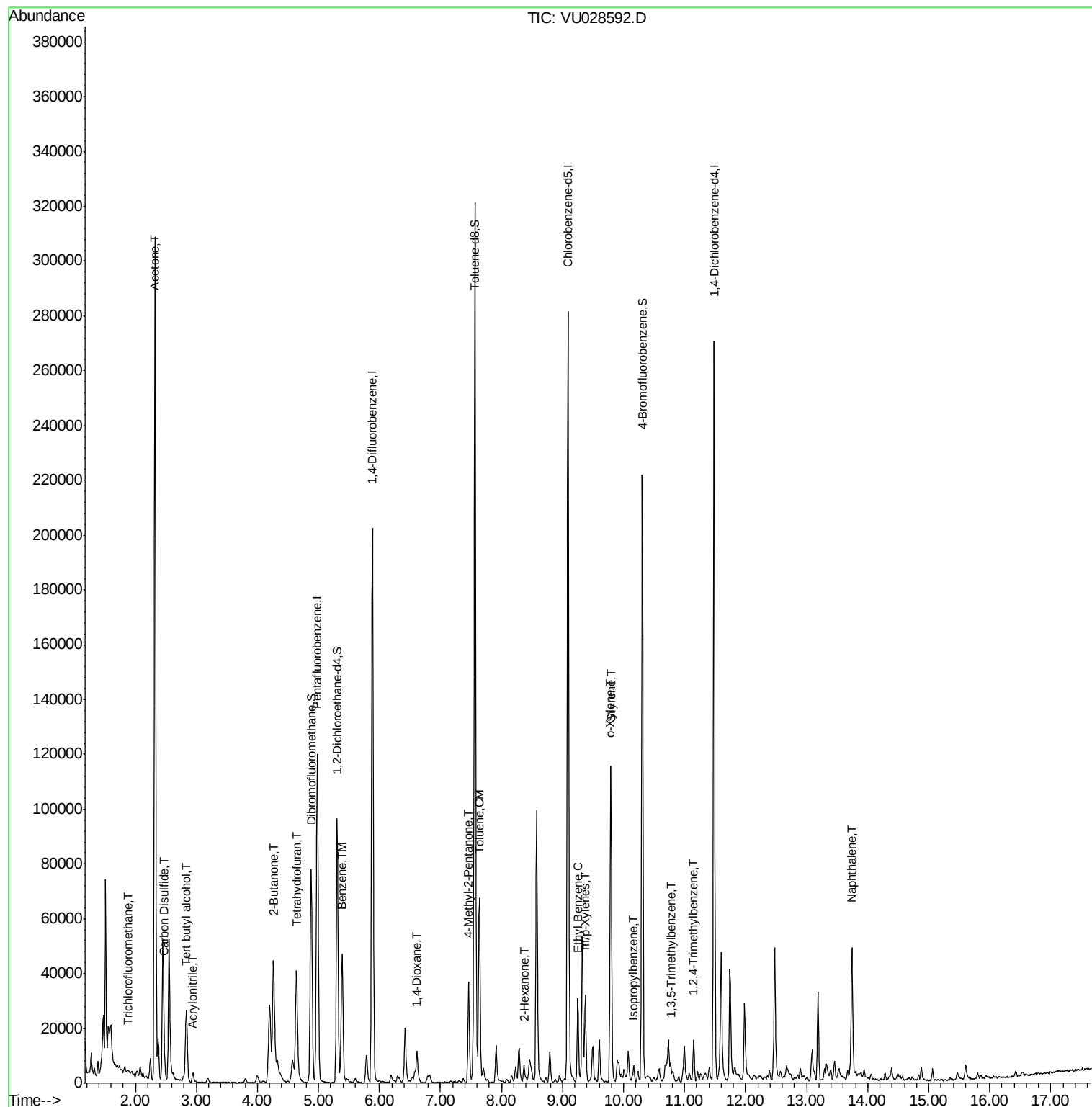
						Qvalue
7) Trichlorofluoromethane	1.88	101	592	0.361	ug/l	91
11) Tert butyl alcohol	2.84	59	21146	70.908	ug/l #	84
15) Acrylonitrile	2.95	53	3121	3.770	ug/l	99
16) Acetone	2.32	43	314848	360.465	ug/l	100
17) Carbon Disulfide	2.48	76	4869	1.384	ug/l #	94
25) 2-Butanone	4.26	43	69619	58.324	ug/l	97
29) Tetrahydrofuran	4.64	42	32517	42.416	ug/l	97
40) Benzene	5.39	78	40923	7.895	ug/l	96
49) 1,4-Dioxane	6.61	88	7514	265.921	ug/l	89
51) 4-Methyl-2-Pentanone	7.46	43	26421	11.641	ug/l	97
52) Toluene	7.64	92	26995	8.849	ug/l	100
59) 2-Hexanone	8.37	43	3253	1.808	ug/l	98
67) Ethyl Benzene	9.25	91	21326	3.730	ug/l	96
68) m/p-Xylenes	9.37	106	7774	3.737	ug/l	93
69) o-Xylene	9.78	106	3843	1.901	ug/l	96
70) Styrene	9.79	104	49325	14.743	ug/l	92
73) Isopropylbenzene	10.17	105	1879	0.383	ug/l	96
80) 1,3,5-Trimethylbenzene	10.77	105	3113	0.766	ug/l	98
84) 1,2,4-Trimethylbenzene	11.15	105	7236	1.728	ug/l	97
95) Naphthalene	13.74	128	33611	6.458	ug/l	99

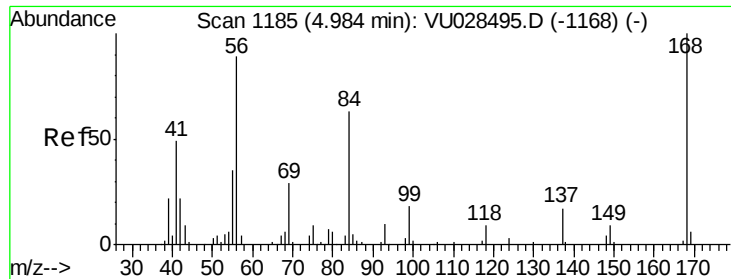
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1184

Delta R.T. -0.00 min

Lab File: VU028592.D

Acq: 11 Dec 2018 08:29

Instrument :

MSVOA_U

ClientSampleId :

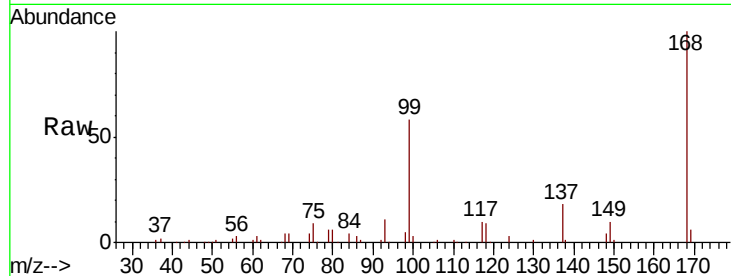
P001-SW005-01

Tot Ion:168 Resp: 87711

Ion Ratio Lower Upper

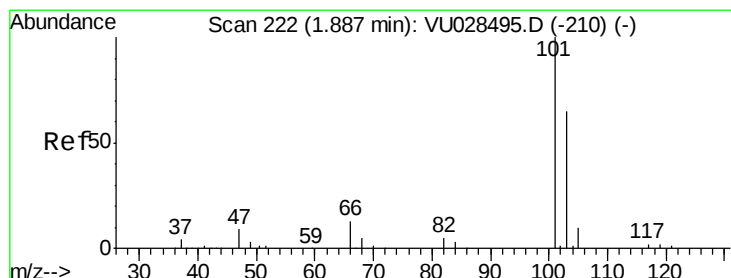
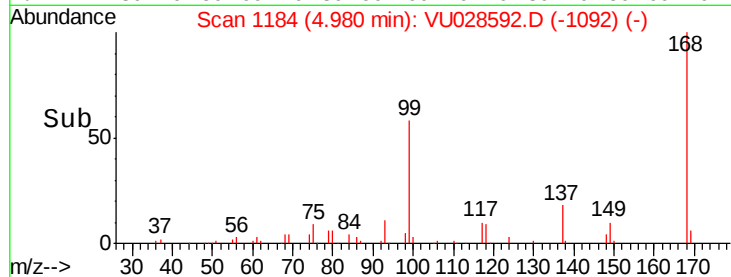
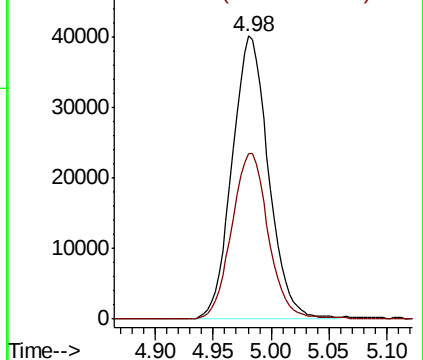
168 100

99 58.4 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VU0



#7

Trichlorofluoromethane

Concen: 0.361 ug/l

RT: 1.88 min Scan# 219

Delta R.T. -0.01 min

Lab File: VU028592.D

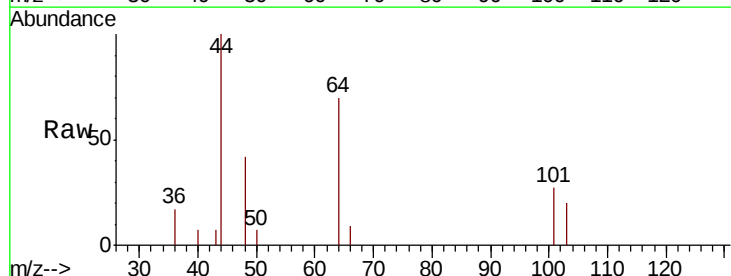
Acq: 11 Dec 2018 08:29

Tgt Ion:101 Resp: 592

Ion Ratio Lower Upper

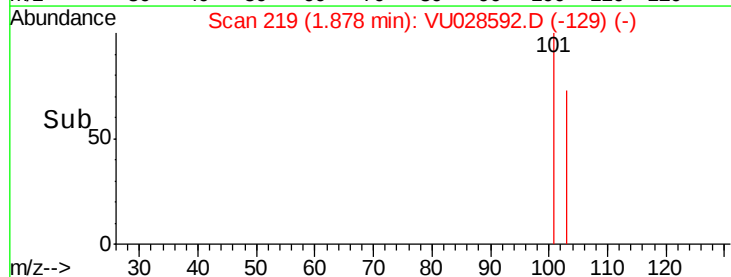
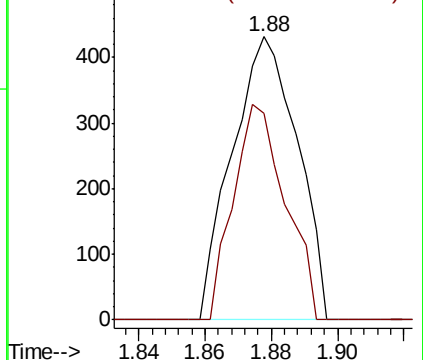
101 100

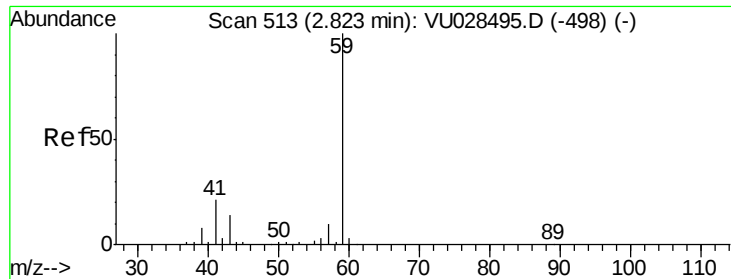
103 72.9 52.3 78.5



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

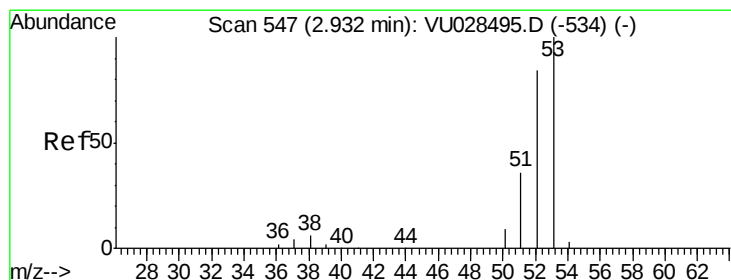
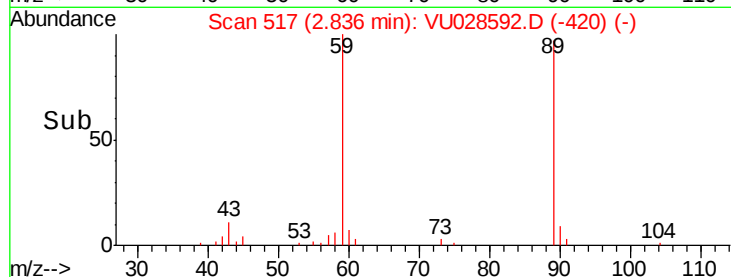
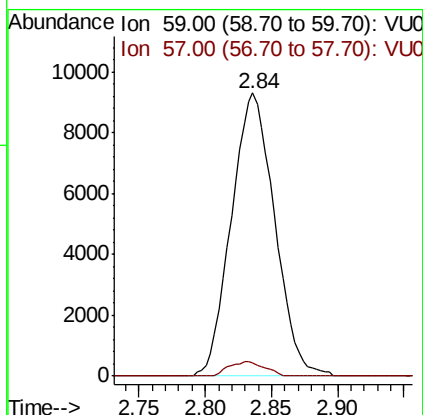
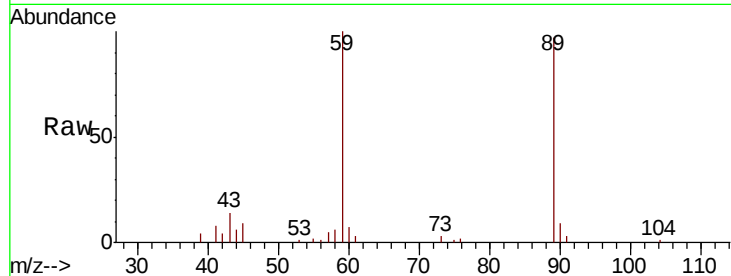




#11
Tert butyl alcohol
Concen: 70.908 ug/l
RT: 2.84 min Scan# 517
Delta R.T. 0.01 min
Lab File: VU028592.D
Acq: 11 Dec 2018 08:29

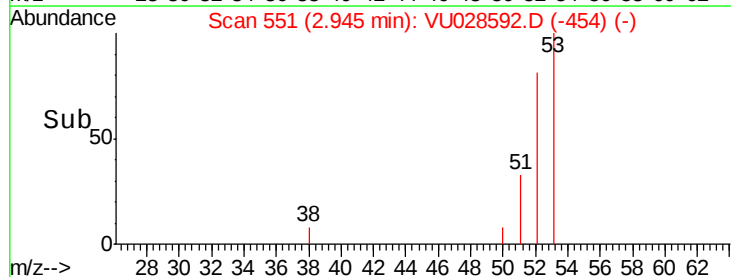
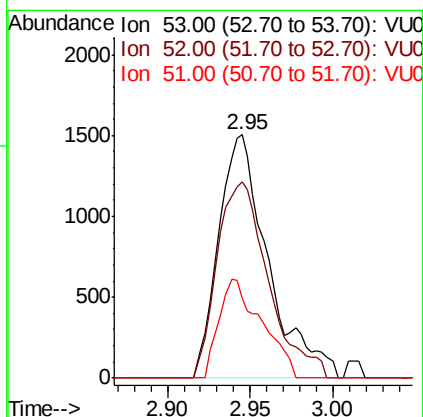
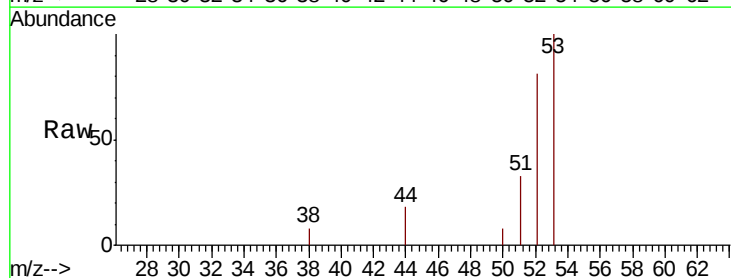
Instrument :
MSVOA_U
ClientSampleId :
P001-SW005-01

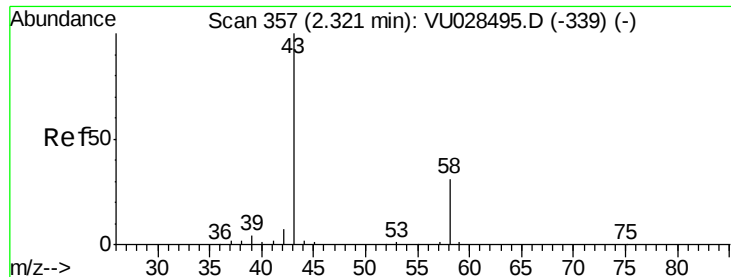
Tot Ion: 59 Resp: 21146
Ion Ratio Lower Upper
59 100
57 4.2 8.0 12.0#



#15
Acrylonitrile
Concen: 3.770 ug/l
RT: 2.95 min Scan# 551
Delta R.T. 0.01 min
Lab File: VU028592.D
Acq: 11 Dec 2018 08:29

Tgt Ion: 53 Resp: 3121
Ion Ratio Lower Upper
53 100
52 83.5 66.1 99.1
51 35.0 28.1 42.1





#16

Acetone

Concen: 360.465 ug/l

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU028592.D

Acq: 11 Dec 2018 08:29

Instrument :

MSVOA_U

ClientSampleId :

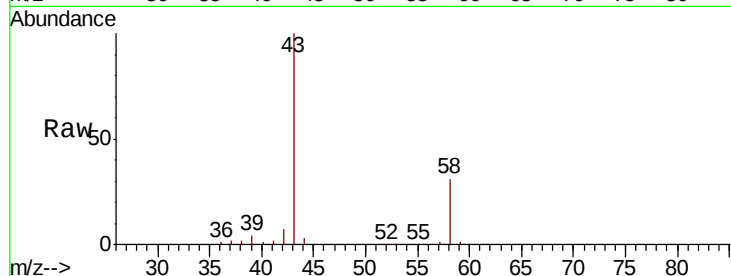
P001-SW005-01

Tot Ion: 43 Resp: 314848

Ion Ratio Lower Upper

43 100

58 30.8 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VU028495.D (-339) (-)

Ion 58.00 (57.70 to 58.70): VU028495.D (-339) (-)

2.32

200000

150000

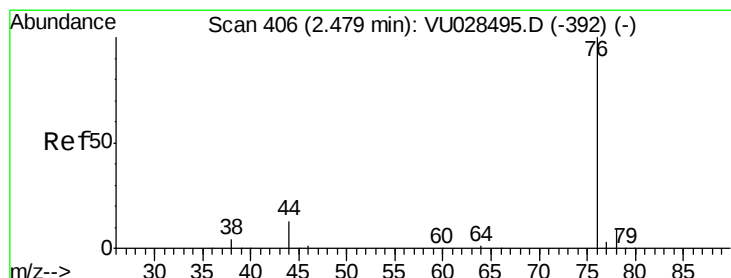
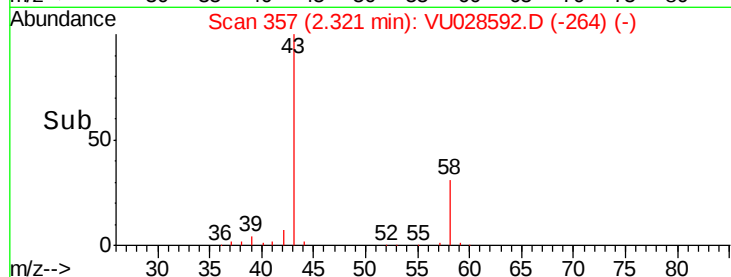
100000

50000

0

2.30 2.40

Time-->



#17

Carbon Disulfide

Concen: 1.384 ug/l

RT: 2.48 min Scan# 405

Delta R.T. -0.00 min

Lab File: VU028592.D

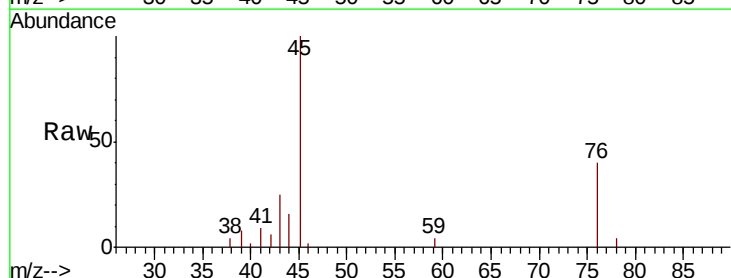
Acq: 11 Dec 2018 08:29

Tgt Ion: 76 Resp: 4869

Ion Ratio Lower Upper

76 100

78 11.2 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VU028495.D (-392) (-)

Ion 77.90 (77.60 to 78.60): VU028495.D (-392) (-)

2.48

3000

2500

2000

1500

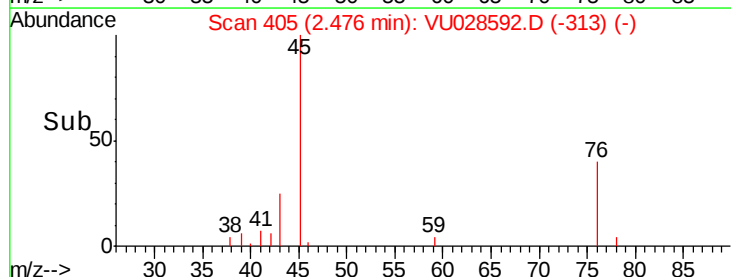
1000

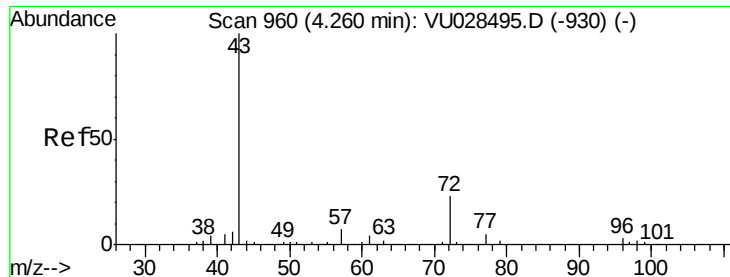
500

0

2.45 2.50

Time-->





#25

2-Butanone

Concen: 58.324 ug/l

RT: 4.26 min Scan# 961

Delta R.T. 0.00 min

Lab File: VU028592.D

Acq: 11 Dec 2018 08:29

Instrument :

MSVOA_U

ClientSampleId :

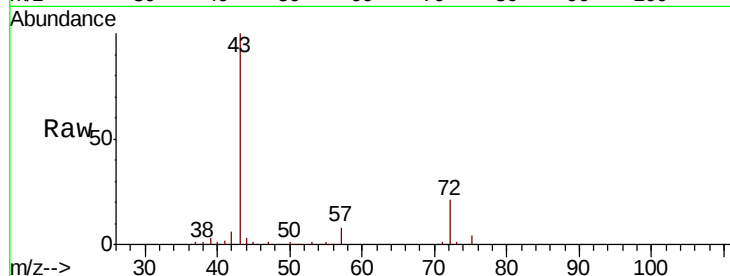
P001-SW005-01

Tot Ion: 43 Resp: 69619

Ion Ratio Lower Upper

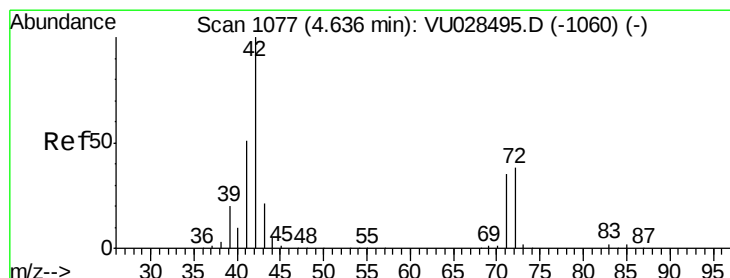
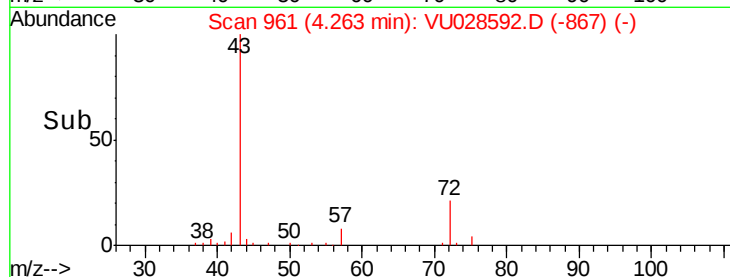
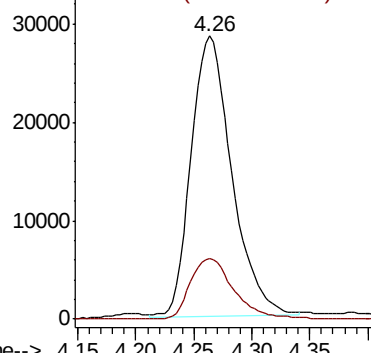
43 100

72 21.8 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: 42.416 ug/l

RT: 4.64 min Scan# 1078

Delta R.T. 0.00 min

Lab File: VU028592.D

Acq: 11 Dec 2018 08:29

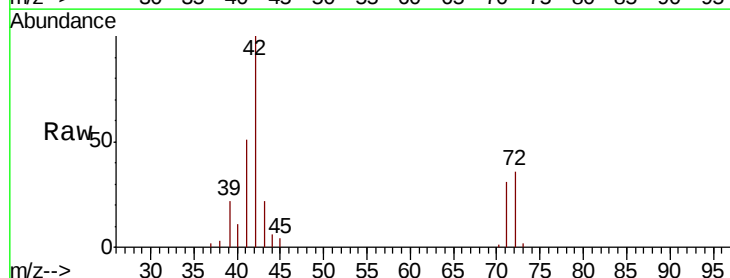
Tgt Ion: 42 Resp: 32517

Ion Ratio Lower Upper

42 100

72 37.4 31.4 47.0

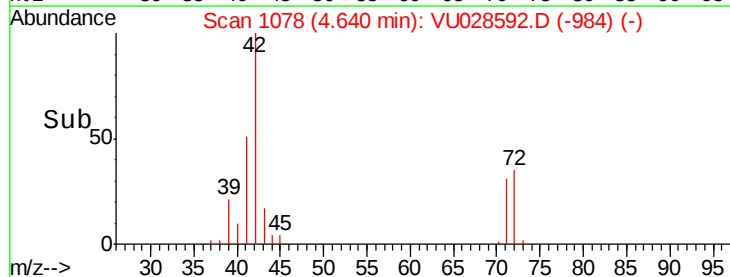
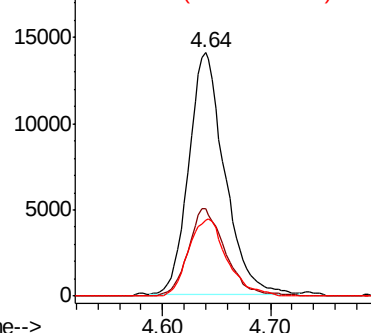
71 34.2 28.6 43.0

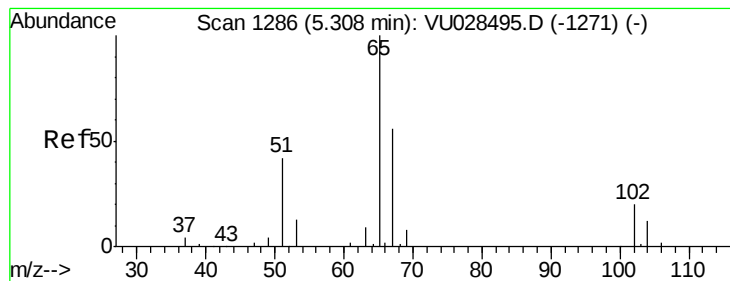


Abundance Ion 42.00 (41.70 to 42.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

Ion 71.00 (70.70 to 71.70): VU0





#33

1,2-Dichloroethane-d4

Concen: 54.164 ug/l

RT: 5.31 min Scan# 1286

Delta R.T. -0.00 min

Lab File: VU028592.D

Acq: 11 Dec 2018 08:29

Instrument :

MSVOA_U

ClientSampleId :

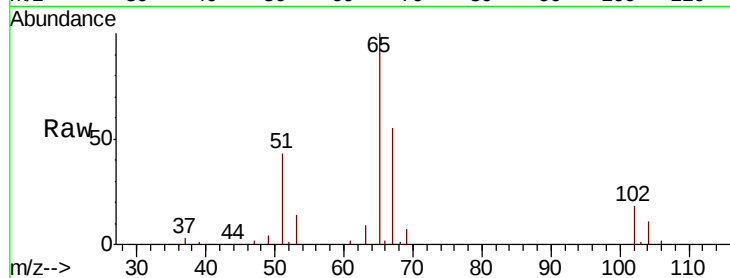
P001-SW005-01

Tot Ion: 65 Resp: 72500

Ion Ratio Lower Upper

65 100

67 55.1 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0

5.31

40000

30000

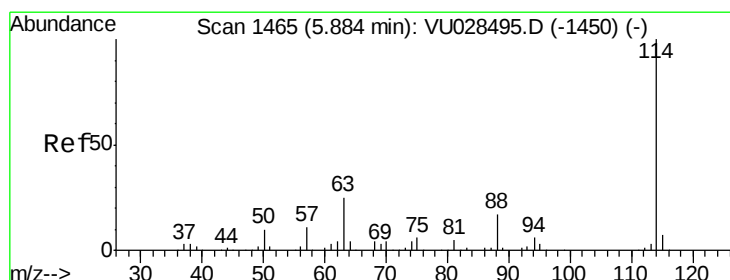
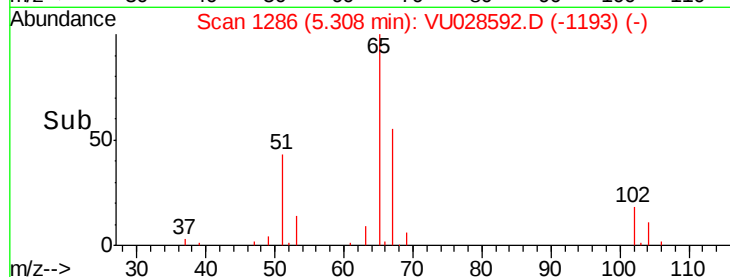
20000

10000

0

Time-->

5.20 5.25 5.30 5.35 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: VU028592.D

Acq: 11 Dec 2018 08:29

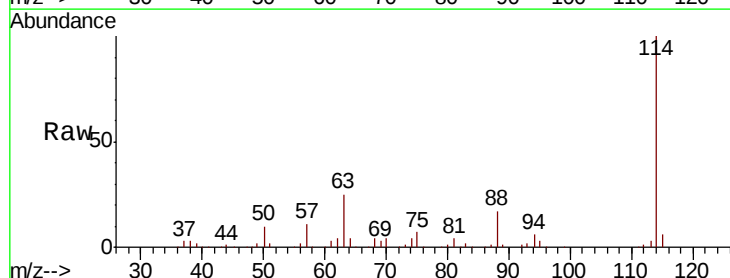
Tgt Ion: 114 Resp: 160831

Ion Ratio Lower Upper

114 100

63 24.8 0.0 49.2

88 17.0 0.0 33.4



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

5.88

100000

80000

60000

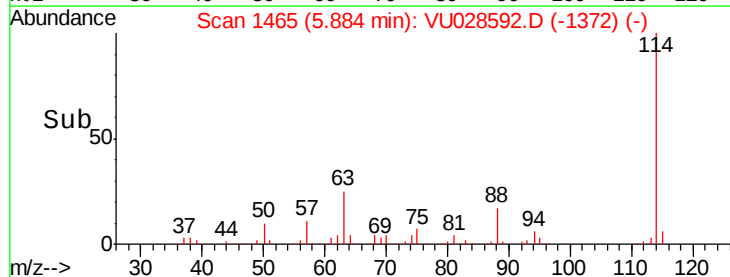
40000

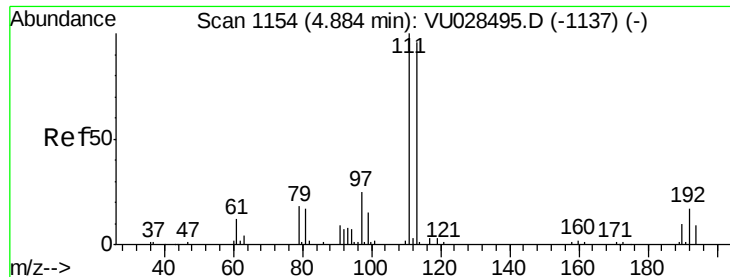
20000

0

Time-->

5.80 5.85 5.90 5.95 6.00

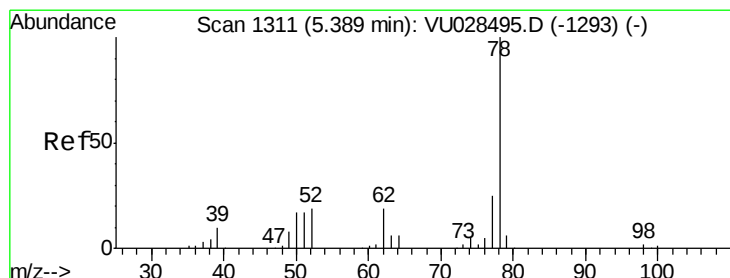
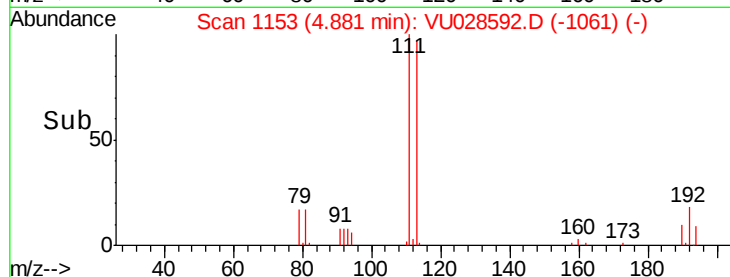
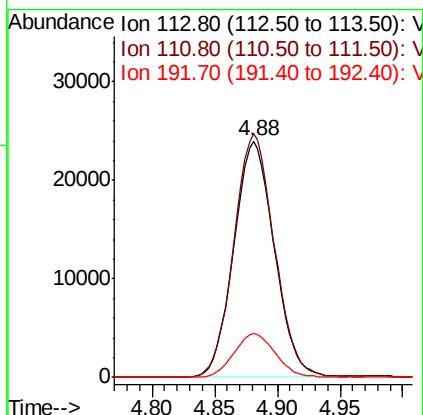
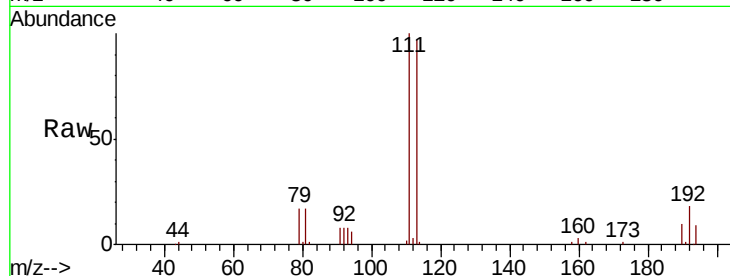




#35
 Dibromofluoromethane
 Concen: 53.247 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. -0.00 min
 Lab File: VU028592.D
 Acq: 11 Dec 2018 08:29

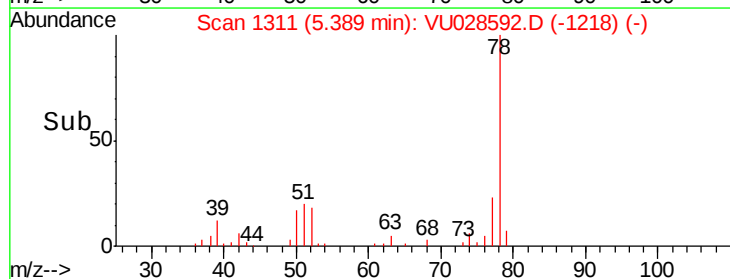
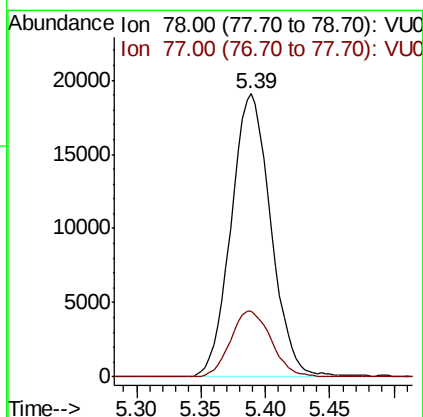
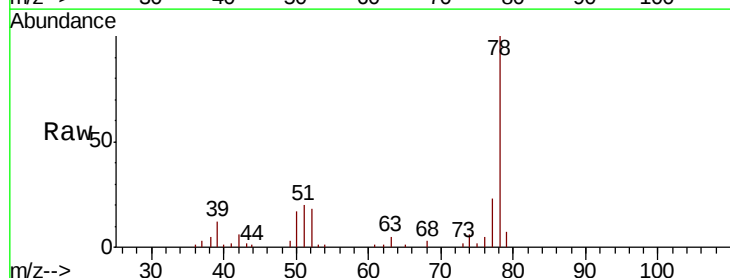
Instrument :
 MSVOA_U
 ClientSampleId :
 P001-SW005-01

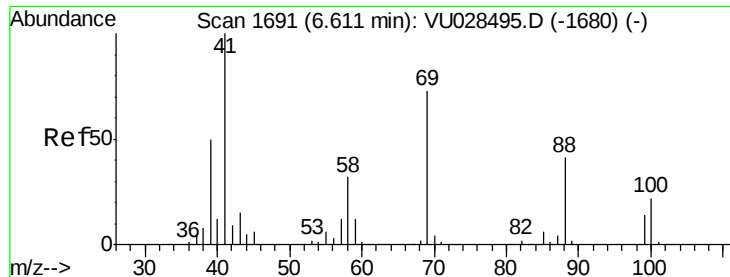
Tot Ion:113 Resp: 53892
 Ion Ratio Lower Upper
 113 100
 111 102.9 83.4 125.0
 192 18.8 14.8 22.2



#40
 Benzene
 Concen: 7.895 ug/l
 RT: 5.39 min Scan# 1311
 Delta R.T. -0.00 min
 Lab File: VU028592.D
 Acq: 11 Dec 2018 08:29

Tgt Ion: 78 Resp: 40923
 Ion Ratio Lower Upper
 78 100
 77 23.0 19.9 29.9





#49

1,4-Dioxane

Concen: 265.921 ug/l

RT: 6.61 min Scan# 1692

Delta R.T. 0.00 min

Lab File: VU028592.D

Acq: 11 Dec 2018 08:29

Instrument :

MSVOA_U

ClientSampleId :

P001-SW005-01

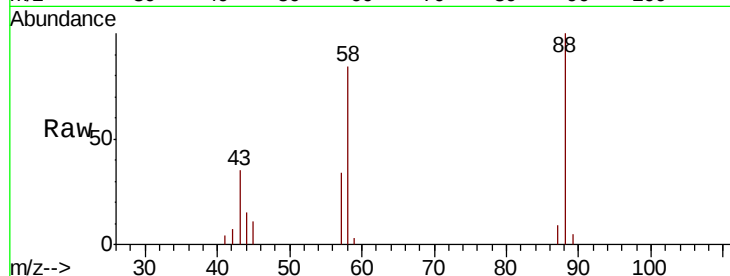
Tot Ion: 88 Resp: 7514

Ion Ratio Lower Upper

88 100

43 31.4 30.9 46.3

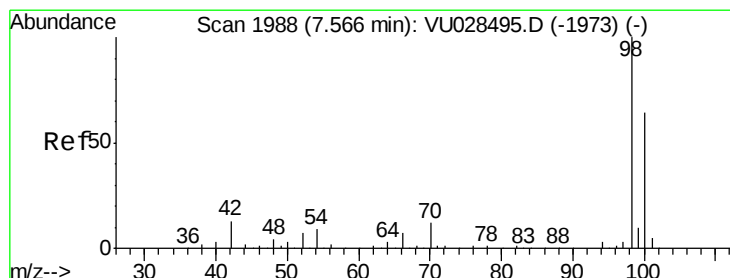
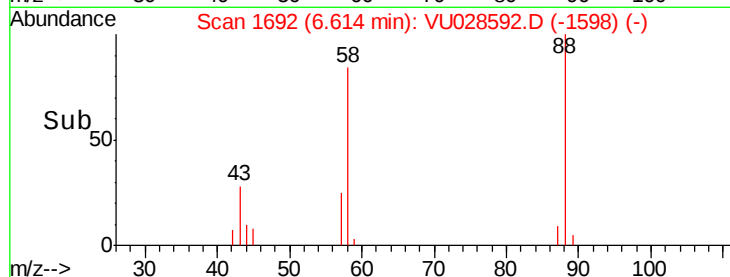
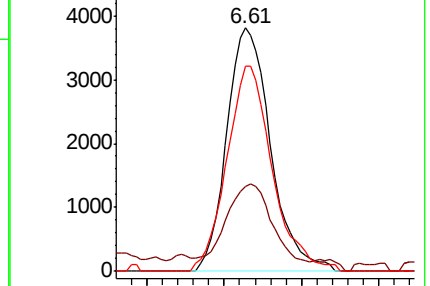
58 87.2 62.4 93.6



Abundance Ion 88.00 (87.70 to 88.70): VU028495.D (-1680) (-)

Ion 43.00 (42.70 to 43.70): VU028495.D (-1680) (-)

Ion 58.00 (57.70 to 58.70): VU028495.D (-1680) (-)



#50

Toluene-d8

Concen: 52.517 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. -0.00 min

Lab File: VU028592.D

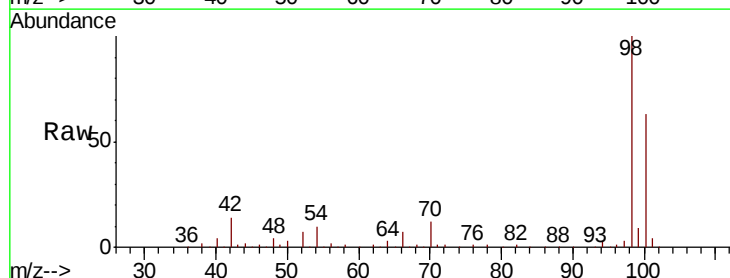
Acq: 11 Dec 2018 08:29

Tgt Ion: 98 Resp: 210266

Ion Ratio Lower Upper

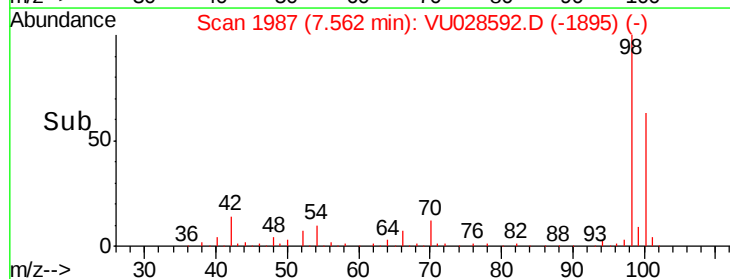
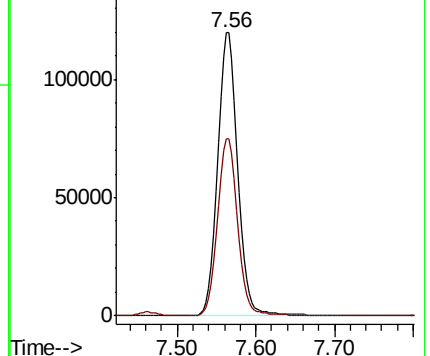
98 100

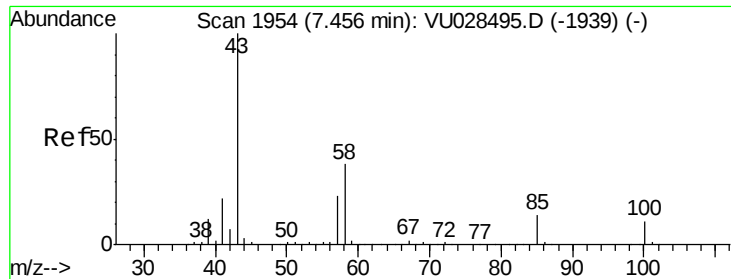
100 62.7 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VU028495.D (-1793) (-)

Ion 100.00 (99.70 to 100.70): VU028495.D (-1793) (-)





#51

4-Methyl-2-Pentanone

Concen: 11.641 ug/l

RT: 7.46 min Scan# 1955

Delta R.T. 0.00 min

Lab File: VU028592.D

Acq: 11 Dec 2018 08:29

Instrument :

MSVOA_U

ClientSampleId :

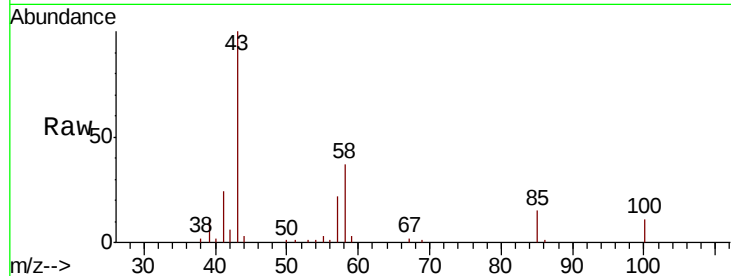
P001-SW005-01

Tot Ion: 43 Resp: 26421

Ion Ratio Lower Upper

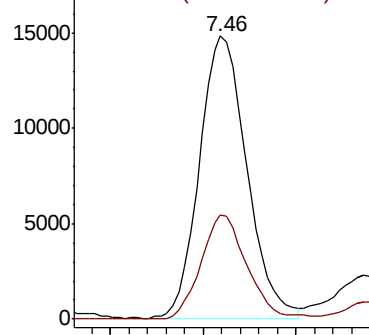
43 100

58 35.7 30.2 45.2

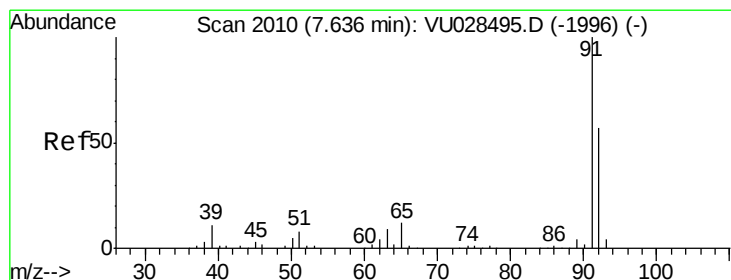
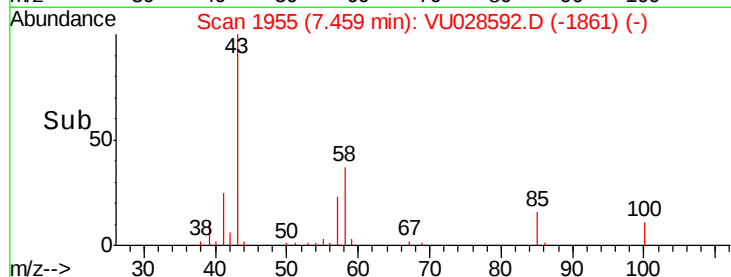


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



Time-->



#52

Toluene

Concen: 8.849 ug/l

RT: 7.64 min Scan# 2010

Delta R.T. -0.00 min

Lab File: VU028592.D

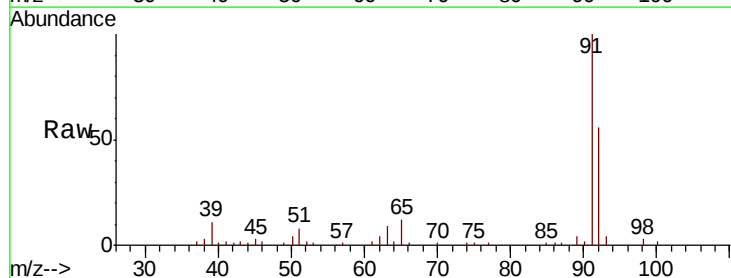
Acq: 11 Dec 2018 08:29

Tgt Ion: 92 Resp: 26995

Ion Ratio Lower Upper

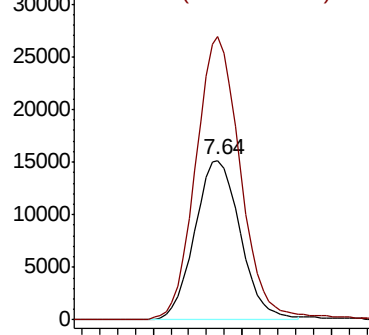
92 100

91 175.7 140.2 210.4

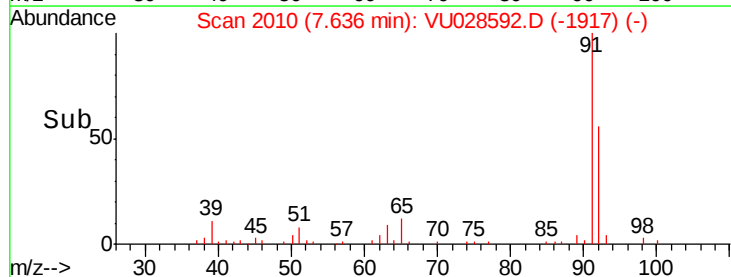


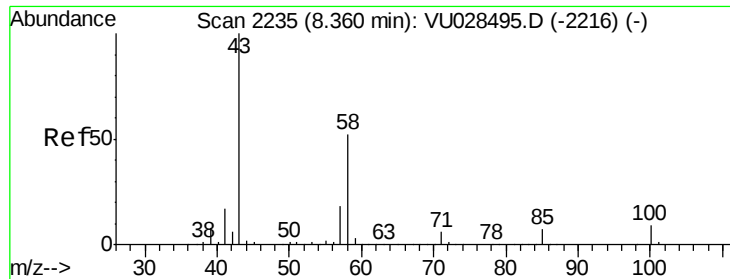
Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0



Time-->

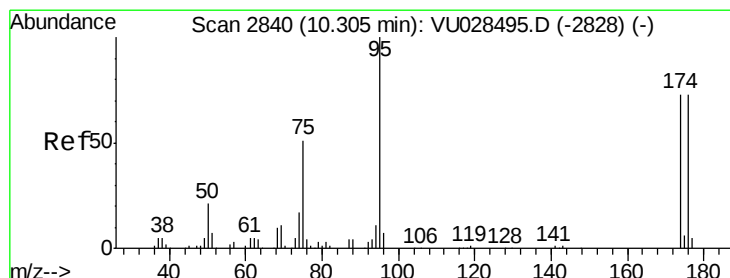
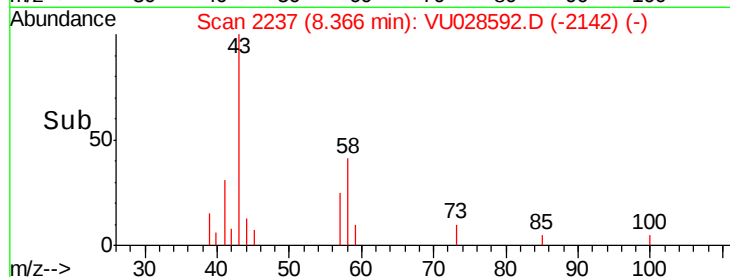
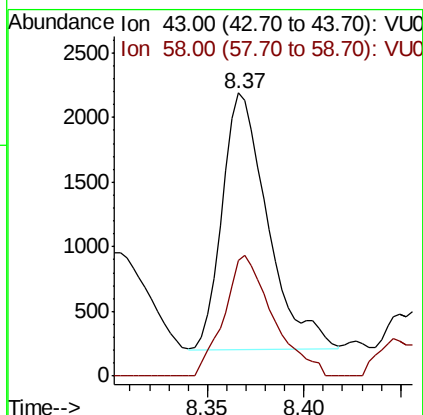
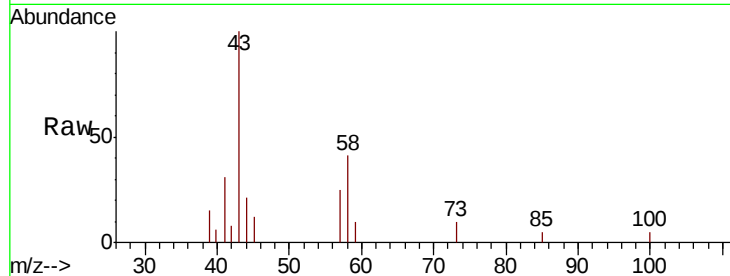




#59
2-Hexanone
Concen: 1.808 ug/l
RT: 8.37 min Scan# 2237
Delta R.T. 0.01 min
Lab File: VU028592.D
Acq: 11 Dec 2018 08:29

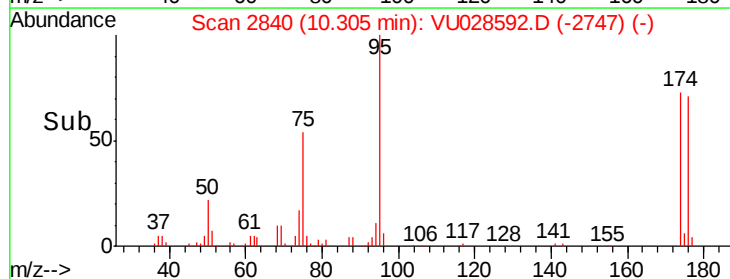
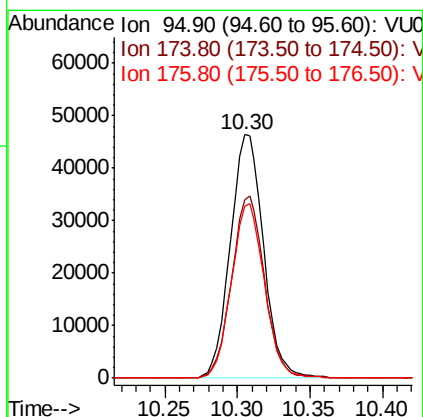
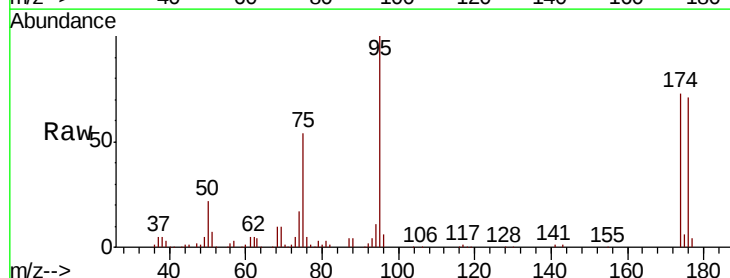
Instrument :
MSVOA_U
ClientSampleId :
P001-SW005-01

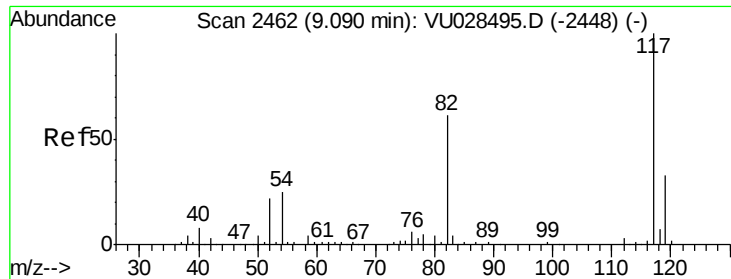
Tot Ion: 43 Resp: 3253
Ion Ratio Lower Upper
43 100
58 50.1 25.9 77.6



#62
4-Bromofluorobenzene
Concen: 49.129 ug/l
RT: 10.30 min Scan# 2840
Delta R.T. -0.00 min
Lab File: VU028592.D
Acq: 11 Dec 2018 08:29

Tgt Ion: 95 Resp: 73519
Ion Ratio Lower Upper
95 100
174 74.1 0.0 150.4
176 71.2 0.0 145.2

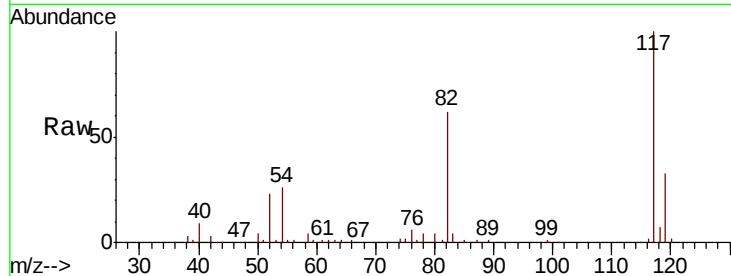




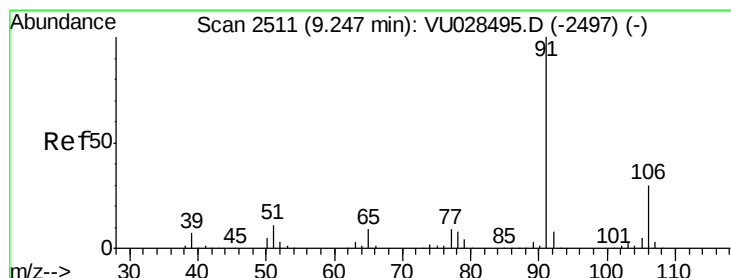
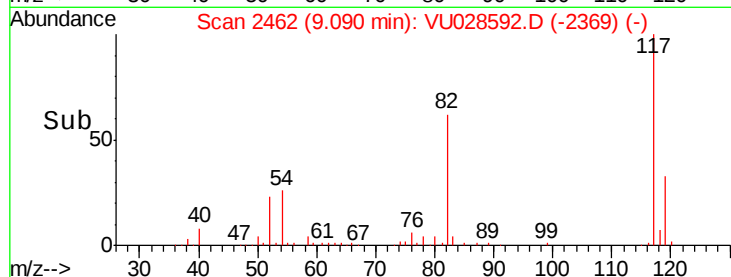
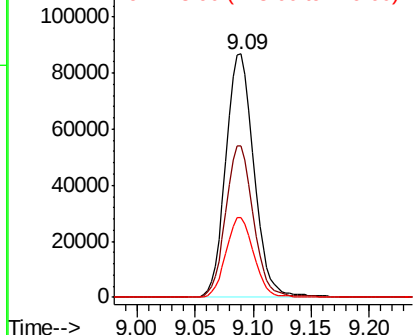
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028592.D
Acq: 11 Dec 2018 08:29

Instrument :
MSVOA_U
ClientSampleId :
P001-SW005-01

Tot Ion:117 Resp: 145947
Ion Ratio Lower Upper
117 100
82 62.0 48.9 73.3
119 32.9 26.2 39.4

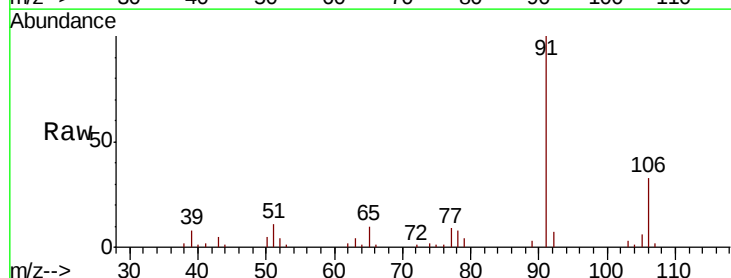


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

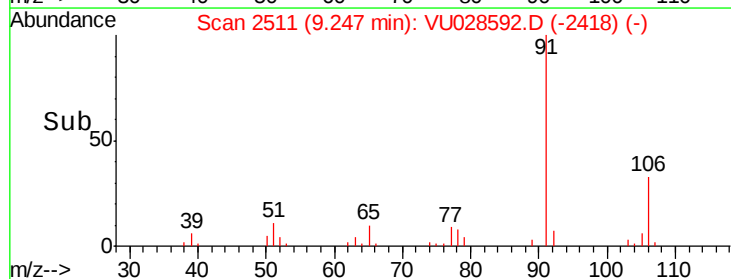
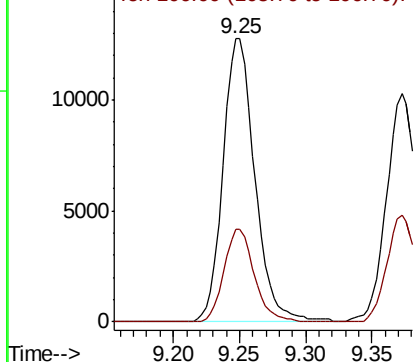


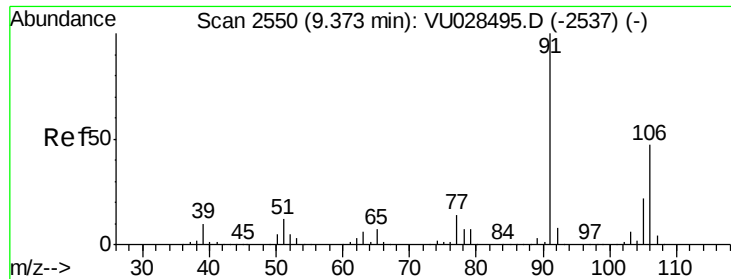
#67
Ethyl Benzene
Concen: 3.730 ug/l
RT: 9.25 min Scan# 2511
Delta R.T. -0.00 min
Lab File: VU028592.D
Acq: 11 Dec 2018 08:29

Tgt Ion: 91 Resp: 21326
Ion Ratio Lower Upper
91 100
106 32.5 24.1 36.1



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





#68

m/p-Xylenes

Concen: 3.737 ug/l

RT: 9.37 min Scan# 2550

Delta R.T. -0.00 min

Lab File: VU028592.D

Acq: 11 Dec 2018 08:29

Instrument :

MSVOA_U

ClientSampleId :

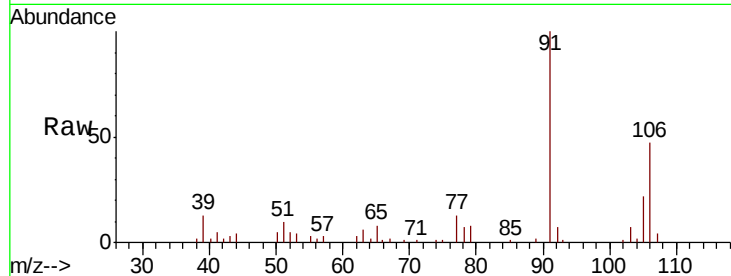
P001-SW005-01

Tot Ion:106 Resp: 7774

Ion Ratio Lower Upper

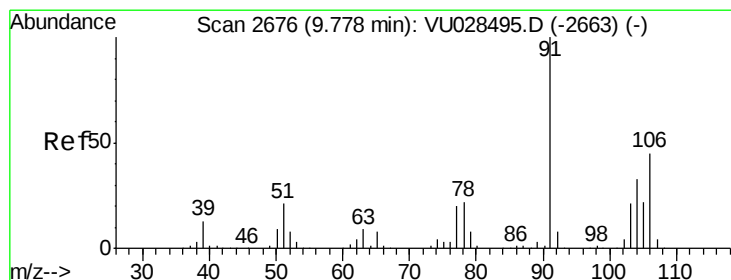
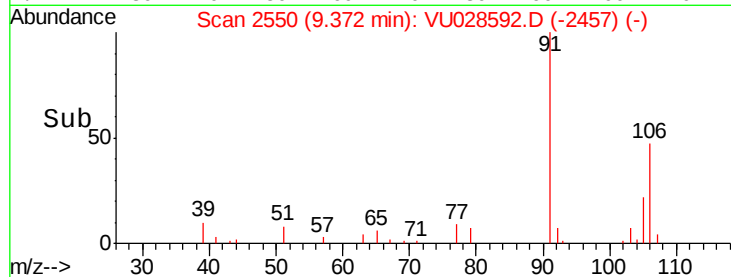
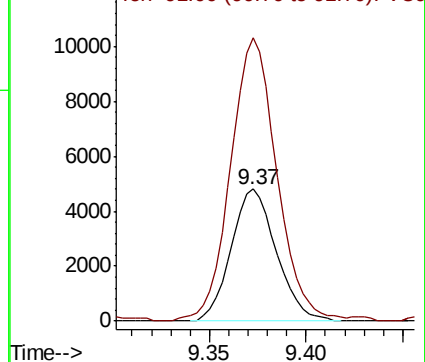
106 100

91 220.6 167.4 251.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#69

o-Xylene

Concen: 1.901 ug/l

RT: 9.78 min Scan# 2676

Delta R.T. -0.00 min

Lab File: VU028592.D

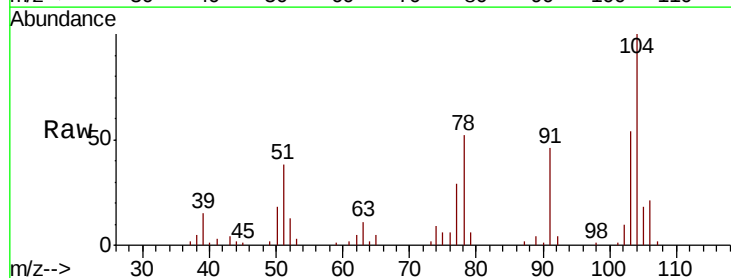
Acq: 11 Dec 2018 08:29

Tgt Ion:106 Resp: 3843

Ion Ratio Lower Upper

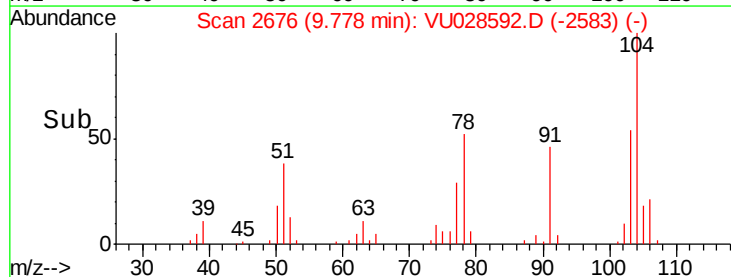
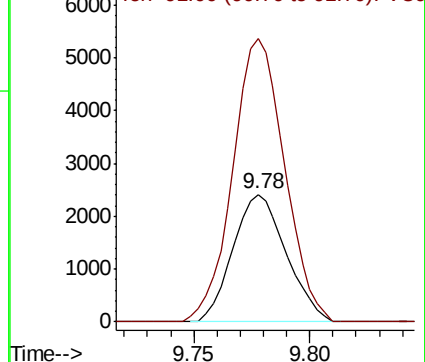
106 100

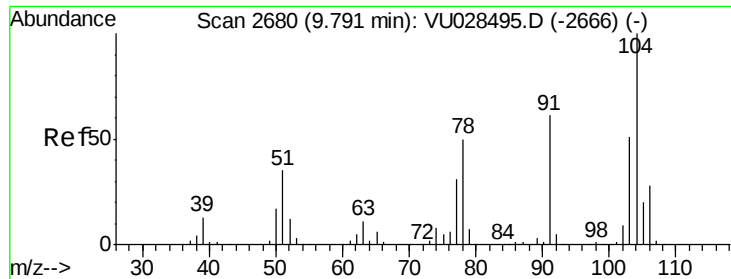
91 216.3 111.3 334.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#70

Stvrene

Concen: 14.743 ug/l

RT: 9.79 min Scan# 2680

Delta R.T. -0.00 min

Lab File: VU028592.D

Acq: 11 Dec 2018 08:29

Instrument :
MSVOA_U
ClientSampleId :
P001-SW005-01

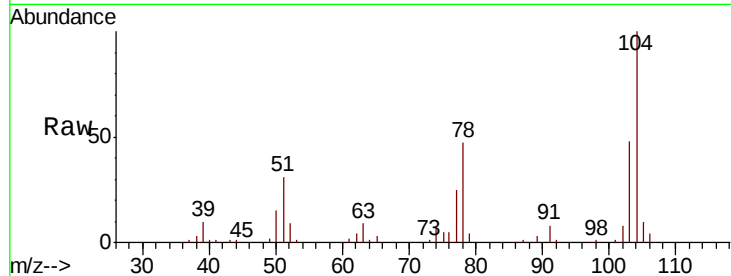
Tot Ion:104 Resp: 49325

Ion Ratio Lower Upper

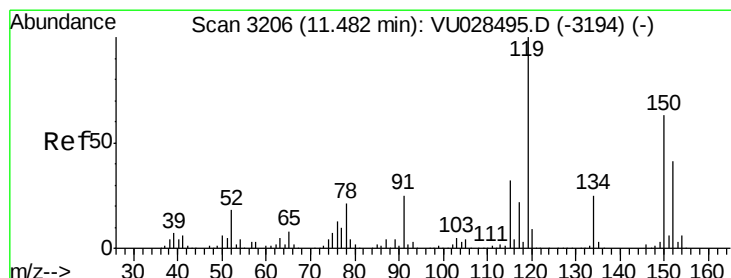
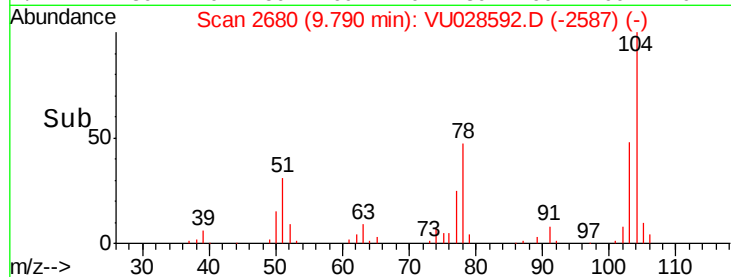
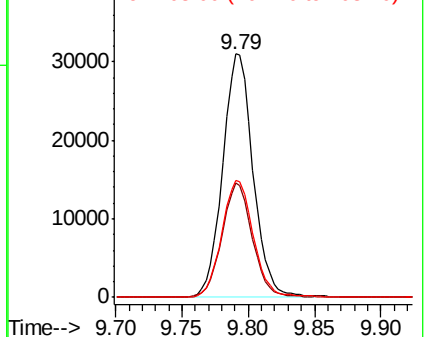
104 100

78 46.8 43.0 64.6

103 50.1 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: VU028592.D

Acq: 11 Dec 2018 08:29

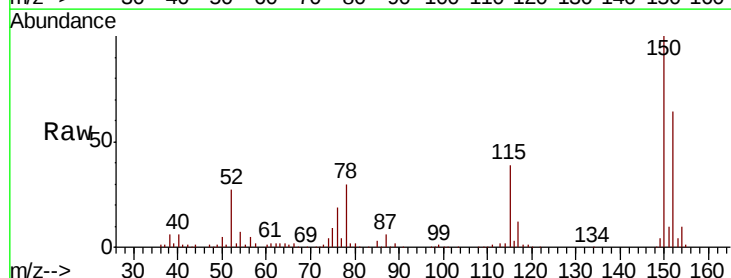
Tgt Ion:152 Resp: 63982

Ion Ratio Lower Upper

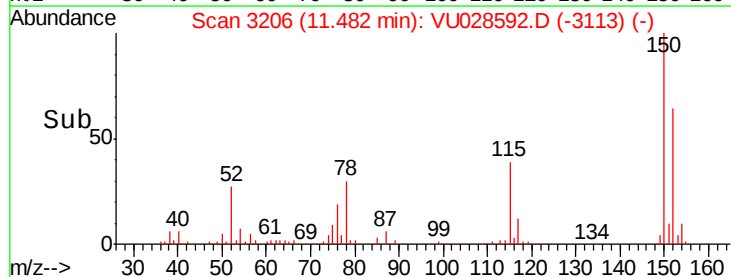
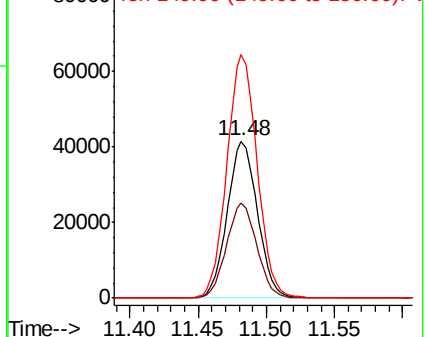
152 100

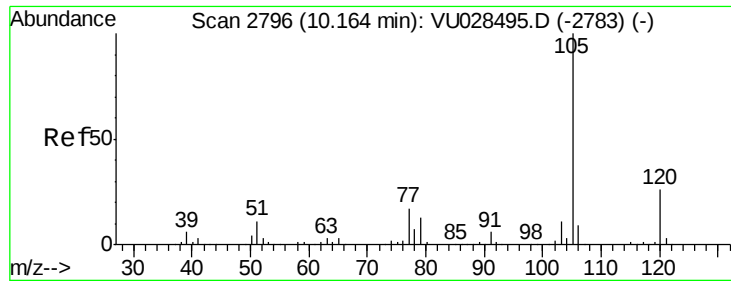
115 60.5 42.7 128.1

150 155.6 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: 0.383 ug/l

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU028592.D

Acq: 11 Dec 2018 08:29

Instrument :

MSVOA_U

ClientSampleId :

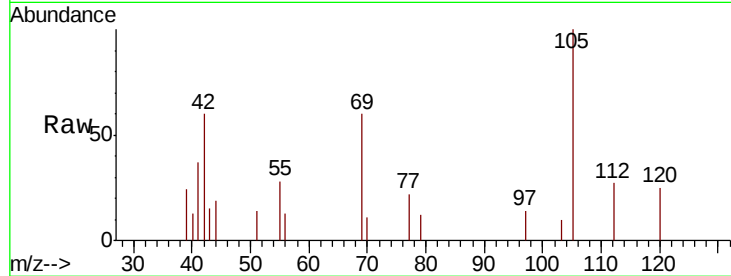
P001-SW005-01

Tot Ion:105 Resp: 1879

Ion Ratio Lower Upper

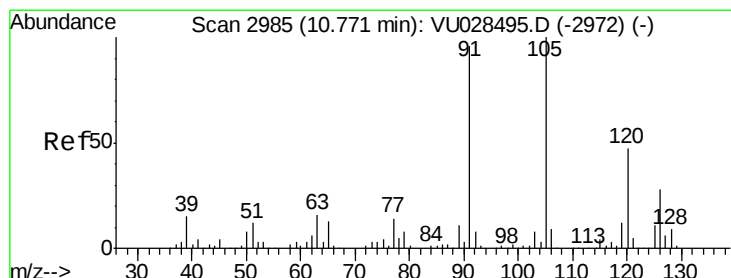
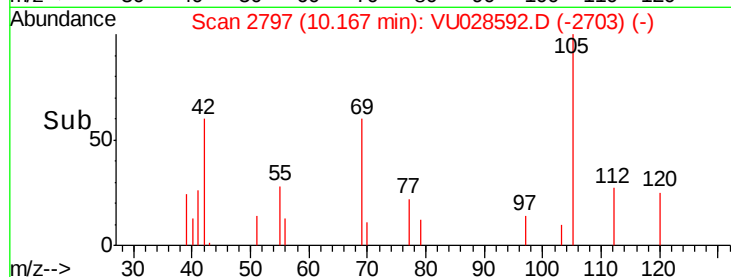
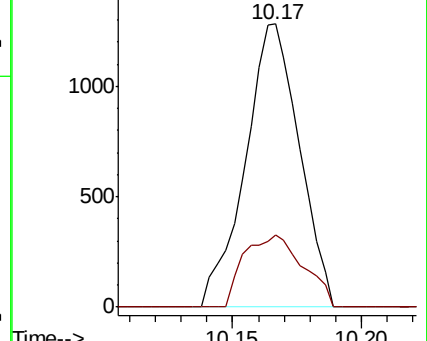
105 100

120 27.8 12.9 38.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#80

1,3,5-Trimethylbenzene

Concen: 0.766 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. -0.00 min

Lab File: VU028592.D

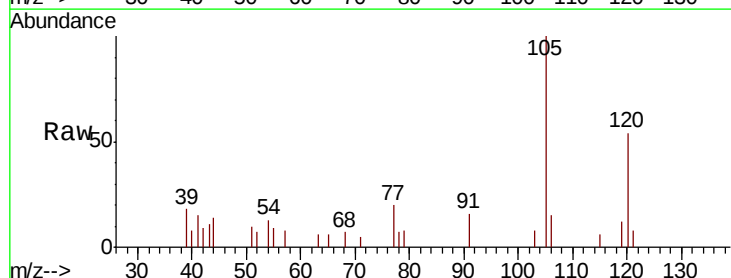
Acq: 11 Dec 2018 08:29

Tgt Ion:105 Resp: 3113

Ion Ratio Lower Upper

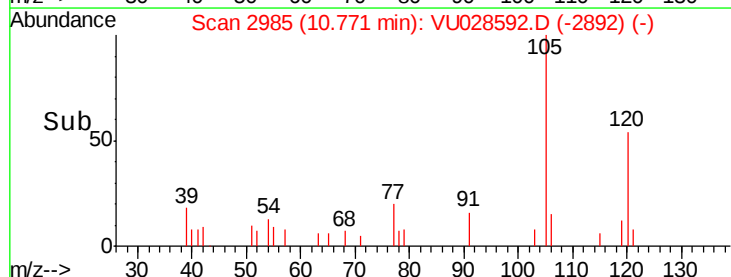
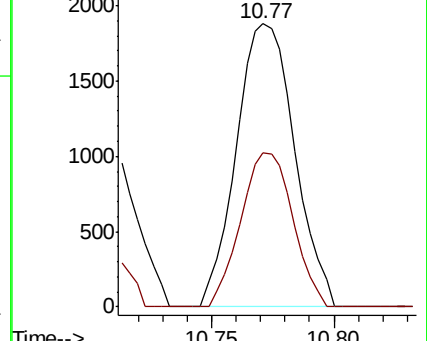
105 100

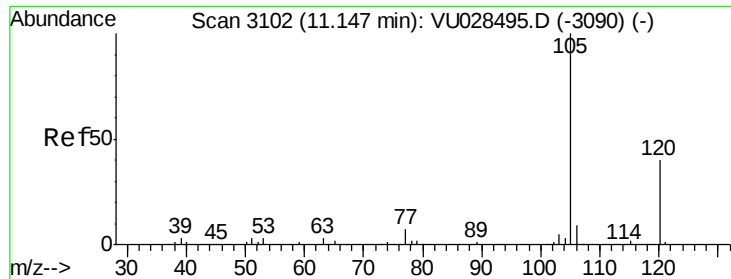
120 48.6 23.7 71.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#84

1,2,4-Trimethylbenzene

Concen: 1.728 ug/l

RT: 11.15 min Scan# 3102

Delta R.T. -0.00 min

Lab File: VU028592.D

Acq: 11 Dec 2018 08:29

Instrument :

MSVOA_U

ClientSampleId :

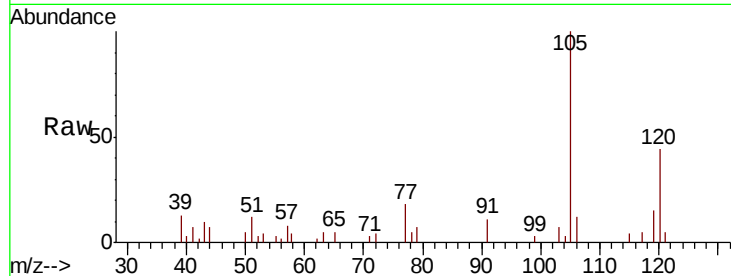
P001-SW005-01

Tot Ion:105 Resp: 7236

Ion Ratio Lower Upper

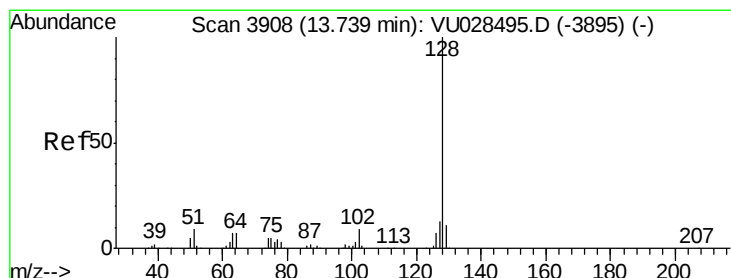
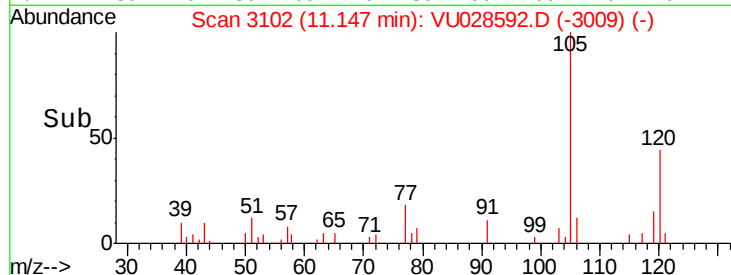
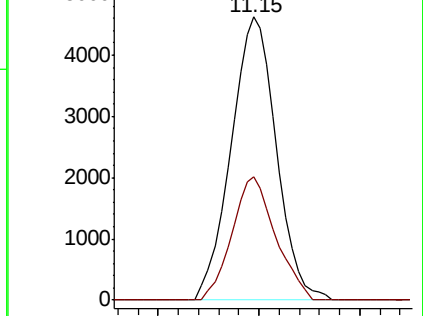
105 100

120 41.9 21.8 65.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#95

Naphthalene

Concen: 6.458 ug/l

RT: 13.74 min Scan# 3909

Delta R.T. 0.00 min

Lab File: VU028592.D

Acq: 11 Dec 2018 08:29

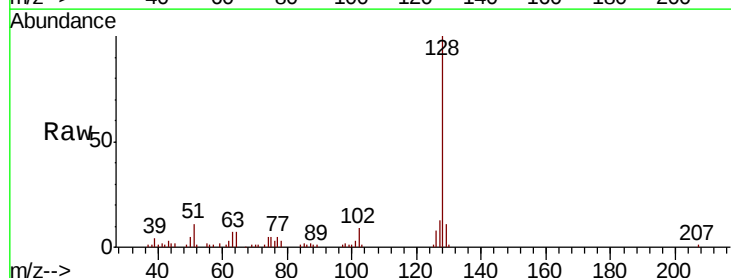
Tgt Ion:128 Resp: 33611

Ion Ratio Lower Upper

128 100

127 12.5 10.4 15.6

129 10.3 8.6 13.0



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

