

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U120318\
 Data File : VU028450.D
 Acq On : 03 Dec 2018 18:38
 Operator : MD/SY
 Sample : J6149-01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 ENGINE-WASH

Quant Time: Dec 04 07:49:43 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U112818W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 29 01:04:49 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	290277	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	550811	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	513619	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	250546	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	245935	50.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.40%	
35) Dibromofluoromethane	4.88	113	180830	49.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.74%	
50) Toluene-d8	7.57	98	713938	48.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.48%	
62) 4-Bromofluorobenzene	10.30	95	268642	50.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.76%	

Target Compounds

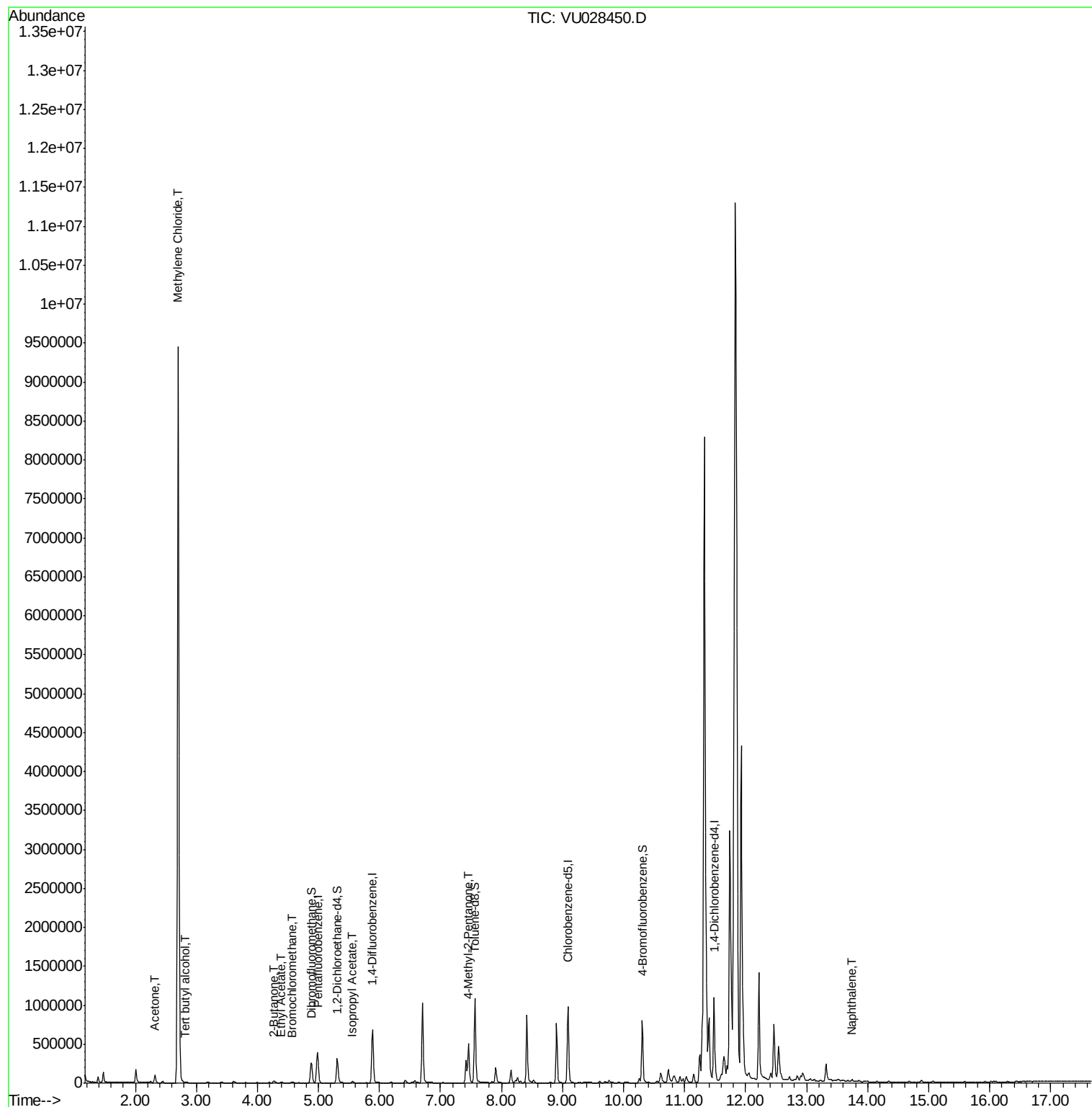
						Qvalue
11) Tert butyl alcohol	2.83	59	3387	3.073	ug/l #	93
16) Acetone	2.32	43	108024	36.401	ug/l	99
20) Methylene Chloride	2.70	84	3827413	915.679	ug/l	96
25) 2-Butanone	4.27	43	41306	9.712	ug/l	97
28) Bromochloromethane	4.55	49	5075	1.291	ug/l #	100
37) Ethyl Acetate	4.39	43	24093	2.933	ug/l #	85
43) Isopropyl Acetate	5.55	43	25357	1.948	ug/l	98
51) 4-Methyl-2-Pentanone	7.46	43	357812	43.040	ug/l	98
95) Naphthalene	13.74	128	19842	3.723	ug/l	96

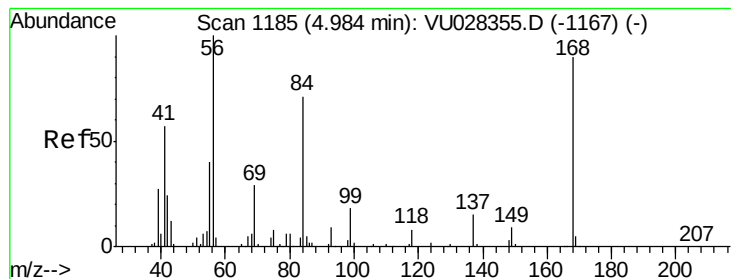
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 04 07:49:43 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U112818W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 29 01:04:49 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: VU028450.D

Acq: 03 Dec 2018 18:38

Instrument :

MSVOA_U

ClientSampleId :

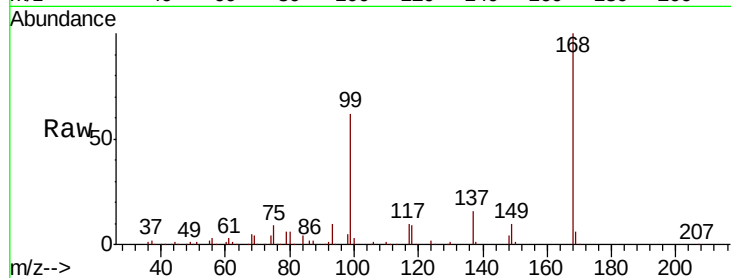
ENGINE-WASH

Tot Ion:168 Resp: 290277

Ion Ratio Lower Upper

168 100

99 62.0 49.6 74.4



Abundance Ion 167.90 (167.60 to 168.60): VU028355.D (-1167) (-)

Ion 98.90 (98.60 to 99.60): VU028450.D (-1092) (-)

4.98

150000

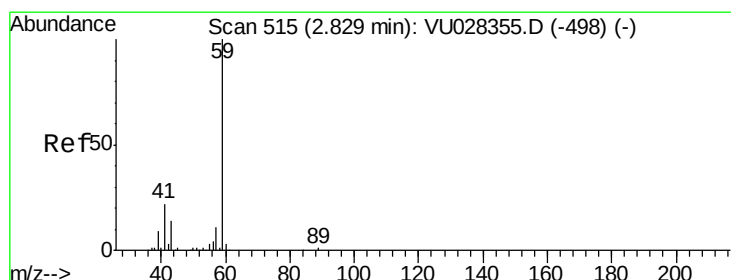
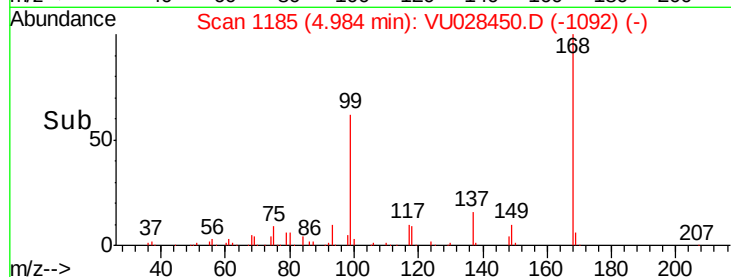
100000

50000

0

4.90 4.95 5.00 5.05

Time-->



#11

Tert butyl alcohol

Concen: 3.073 ug/l

RT: 2.83 min Scan# 515

Delta R.T. 0.00 min

Lab File: VU028450.D

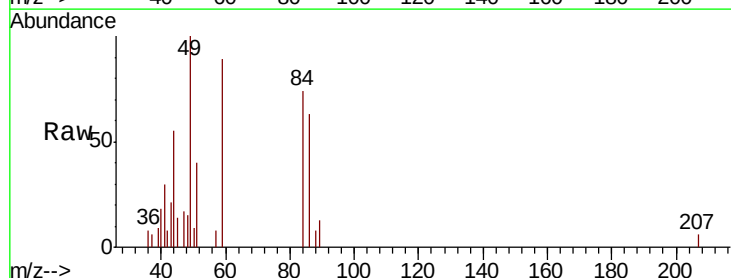
Acq: 03 Dec 2018 18:38

Tgt Ion: 59 Resp: 3387

Ion Ratio Lower Upper

59 100

57 7.6 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VU028355.D (-498) (-)

Ion 57.00 (56.70 to 57.70): VU028450.D (-422) (-)

2.83

1500

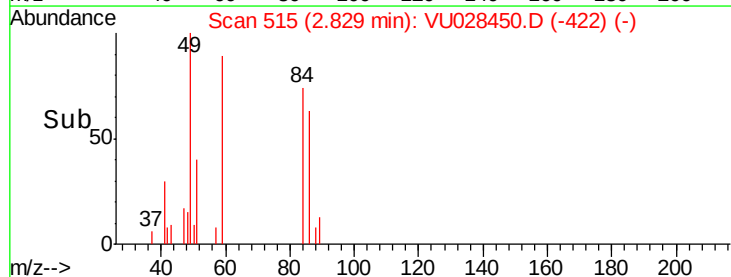
1000

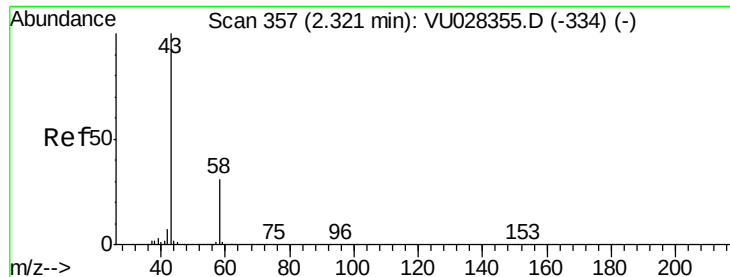
500

0

2.75 2.80 2.85

Time-->





#16

Acetone

Concen: 36.401 ug/l

RT: 2.32 min Scan# 357

Delta R.T. 0.00 min

Lab File: VU028450.D

Acq: 03 Dec 2018 18:38

Instrument :

MSVOA_U

ClientSampleId :

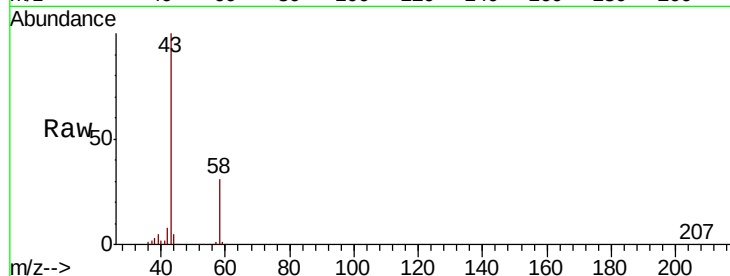
ENGINE-WASH

Tot Ion: 43 Resp: 108024

Ion Ratio Lower Upper

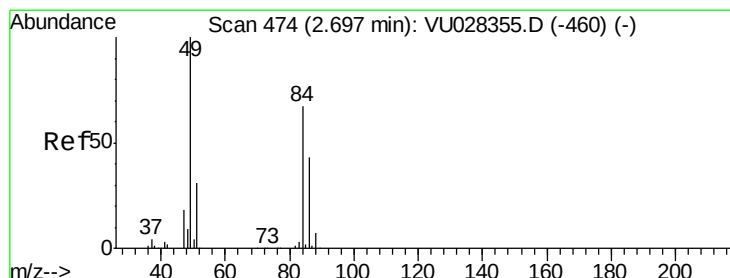
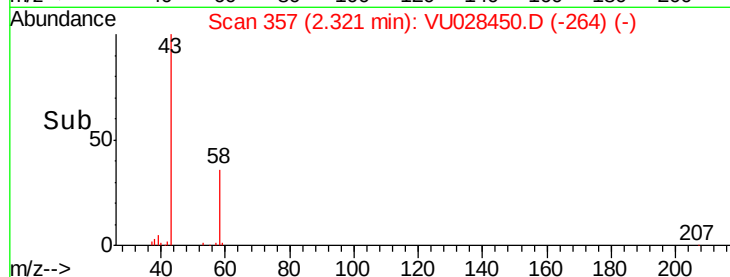
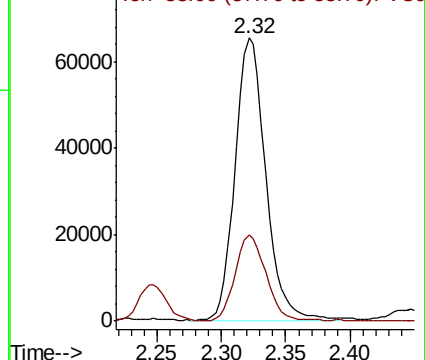
43 100

58 30.2 24.4 36.6



Abundance Ion 43.00 (42.70 to 43.70): VU028355.D (-334) (-)

Ion 58.00 (57.70 to 58.70): VU028355.D (-334) (-)



#20

Methylene Chloride

Concen: 915.679 ug/l

RT: 2.70 min Scan# 475

Delta R.T. 0.00 min

Lab File: VU028450.D

Acq: 03 Dec 2018 18:38

Tgt Ion: 84 Resp: 3827413

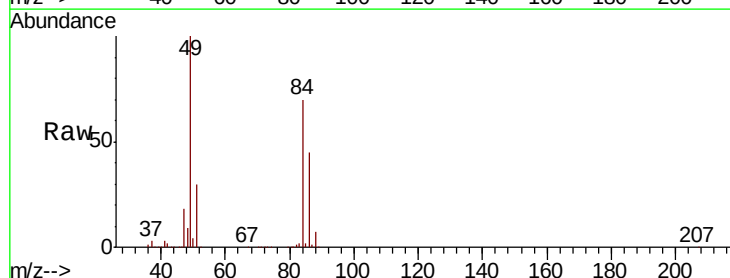
Ion Ratio Lower Upper

84 100

49 142.2 120.0 180.0

51 43.1 36.9 55.3

86 63.6 51.1 76.7

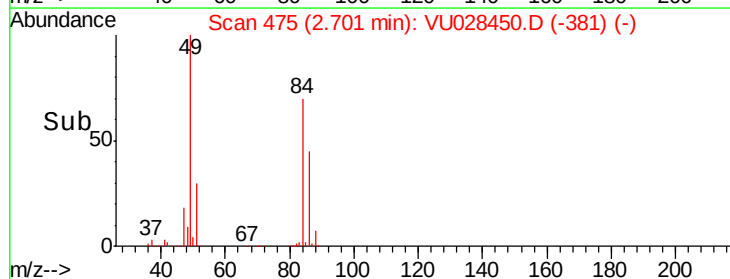
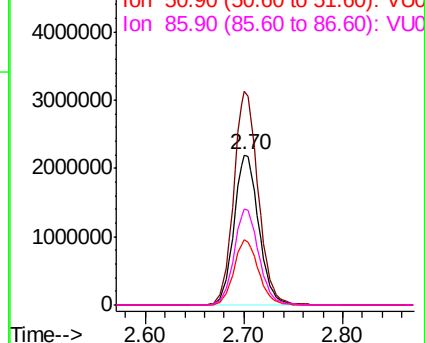


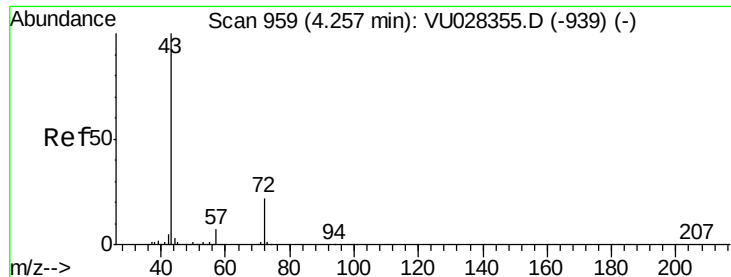
Abundance Ion 83.90 (83.60 to 84.60): VU028355.D (-460) (-)

Ion 48.90 (48.60 to 49.60): VU028355.D (-460) (-)

Ion 50.90 (50.60 to 51.60): VU028355.D (-460) (-)

Ion 85.90 (85.60 to 86.60): VU028355.D (-460) (-)





#25

2-Butanone

Concen: 9.712 ug/l

RT: 4.27 min Scan# 963

Delta R.T. 0.01 min

Lab File: VU028450.D

Acq: 03 Dec 2018 18:38

Instrument :

MSVOA_U

ClientSampleId :

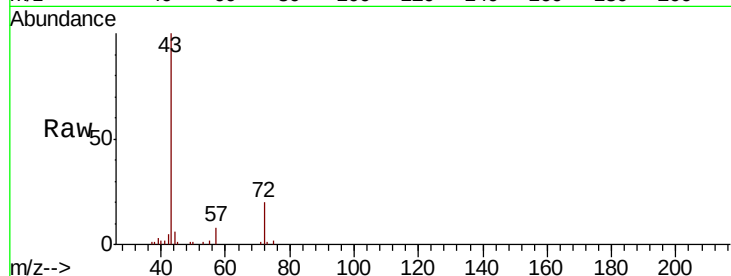
ENGINE-WASH

Tot Ion: 43 Resp: 41306

Ion Ratio Lower Upper

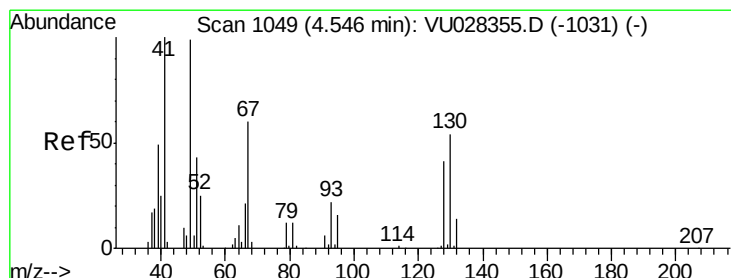
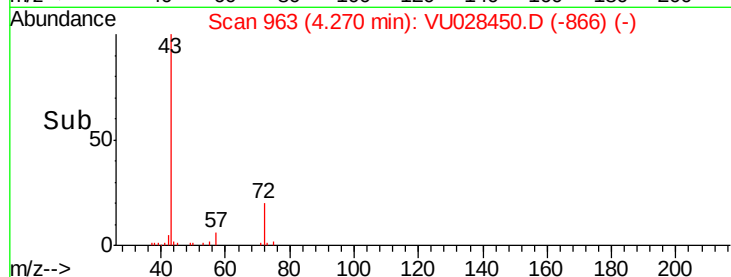
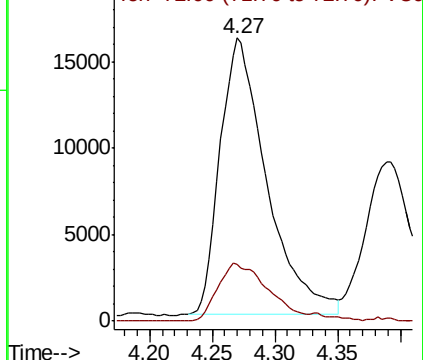
43 100

72 20.5 17.7 26.5



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0



#28

Bromochloromethane

Concen: 1.291 ug/l

RT: 4.55 min Scan# 1051

Delta R.T. 0.01 min

Lab File: VU028450.D

Acq: 03 Dec 2018 18:38

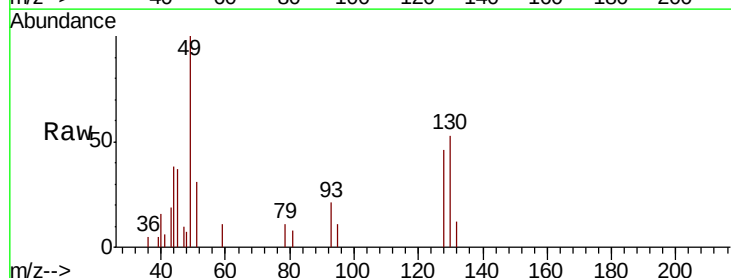
Tgt Ion: 49 Resp: 5075

Ion Ratio Lower Upper

49 100

129 0.0 0.0 2.6

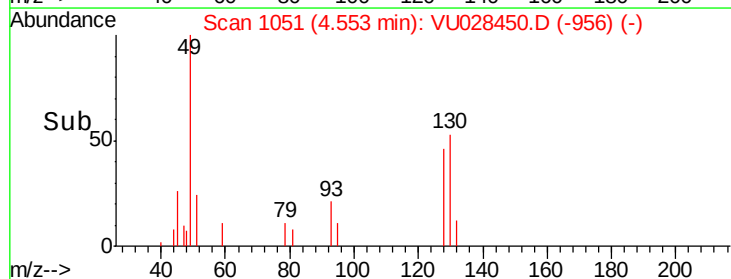
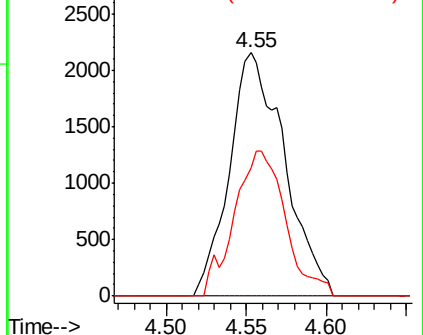
130 55.3 44.5 66.7

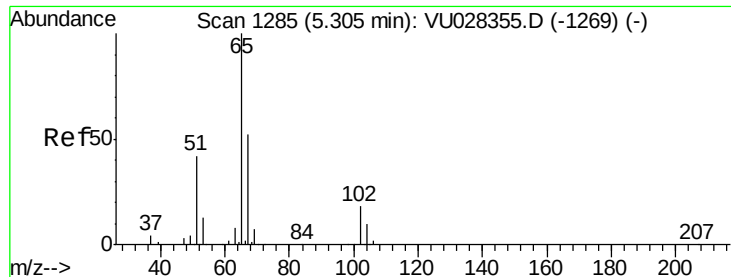


Abundance Ion 48.90 (48.60 to 49.60): VU0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

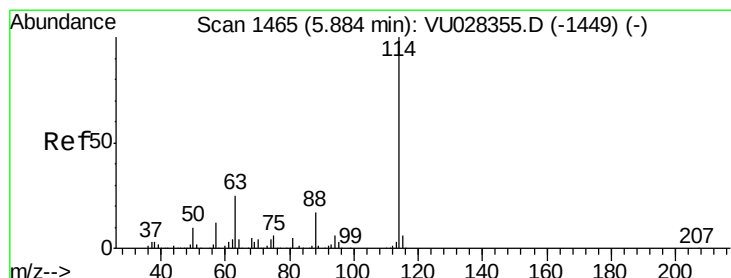
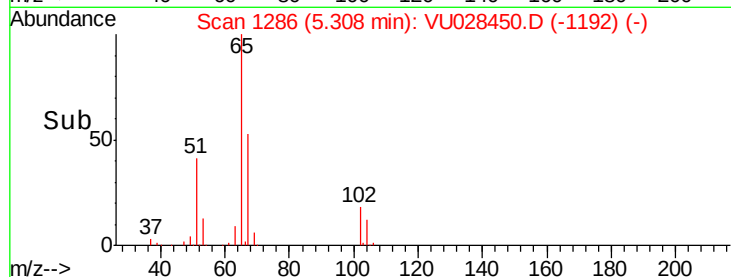
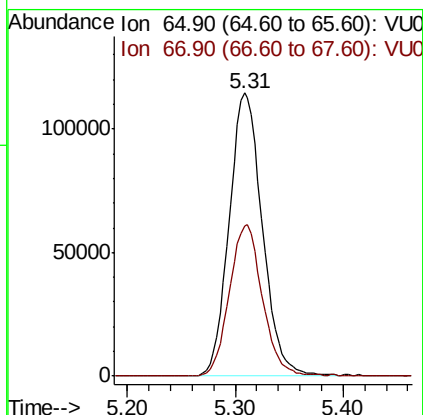
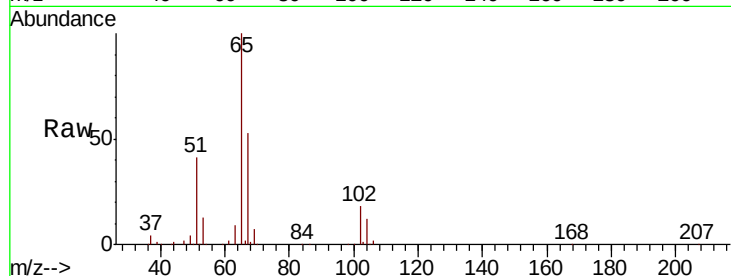




#33
 1,2-Dichloroethane-d4
 Concen: 50.695 ug/l
 RT: 5.31 min Scan# 1286
 Delta R.T. 0.00 min
 Lab File: VU028450.D
 Acq: 03 Dec 2018 18:38

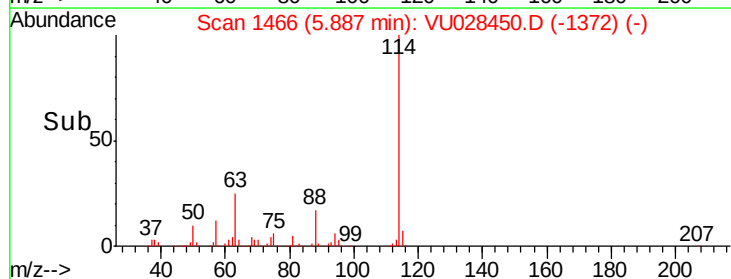
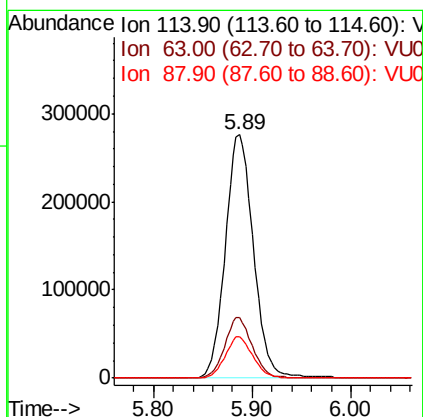
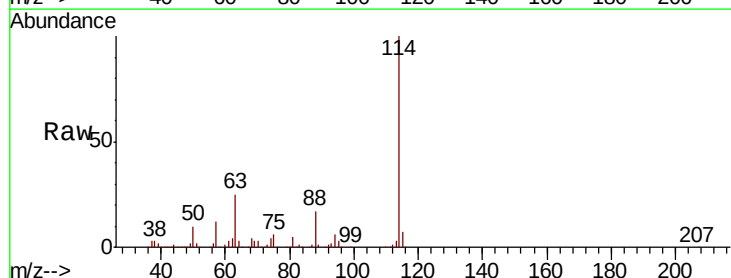
Instrument :
 MSVOA_U
 ClientSampleId :
 ENGINE-WASH

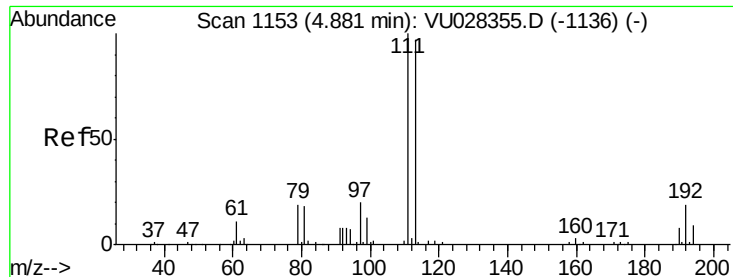
Tot Ion: 65 Resp: 245935
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. 0.00 min
 Lab File: VU028450.D
 Acq: 03 Dec 2018 18:38

Tgt Ion: 114 Resp: 550811
 Ion Ratio Lower Upper
 114 100
 63 24.6 0.0 50.0
 88 17.1 0.0 34.4

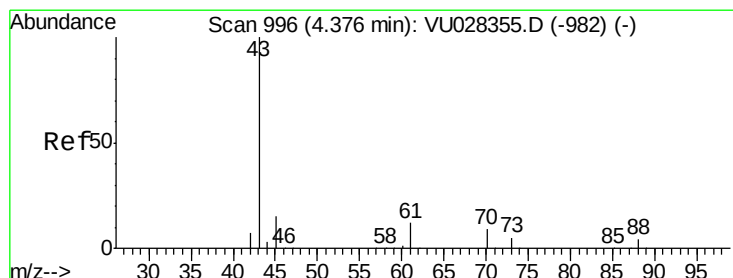
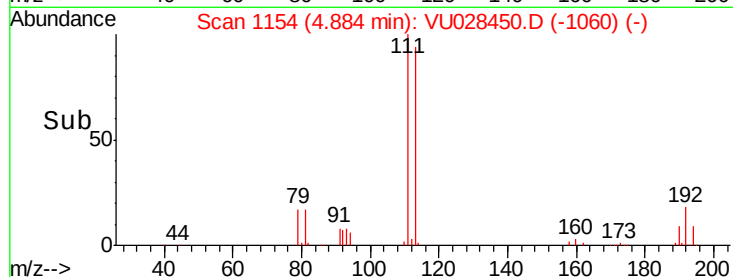
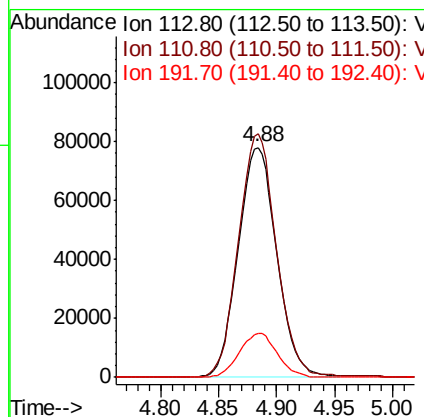
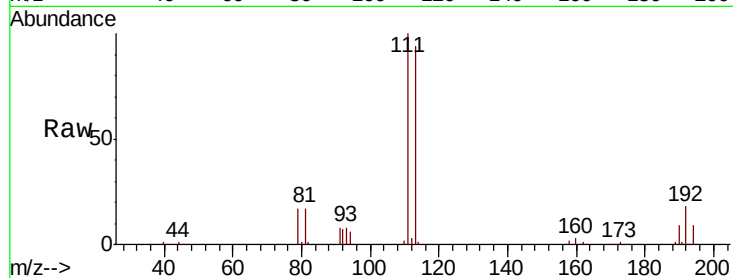




#35
 Dibromofluoromethane
 Concen: 49.371 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. 0.00 min
 Lab File: VU028450.D
 Acq: 03 Dec 2018 18:38

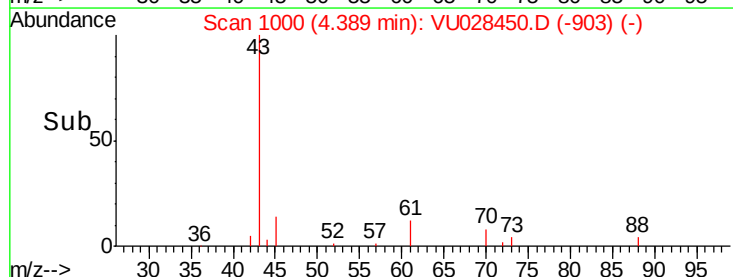
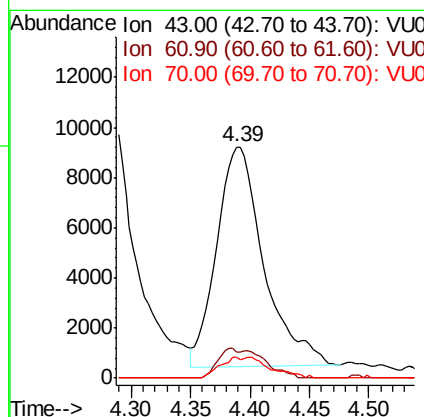
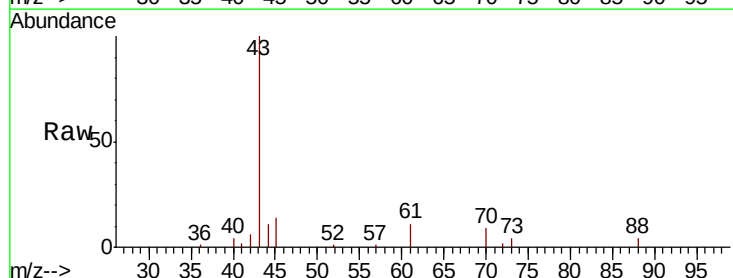
Instrument :
 MSVOA_U
 ClientSampleId :
 ENGINE-WASH

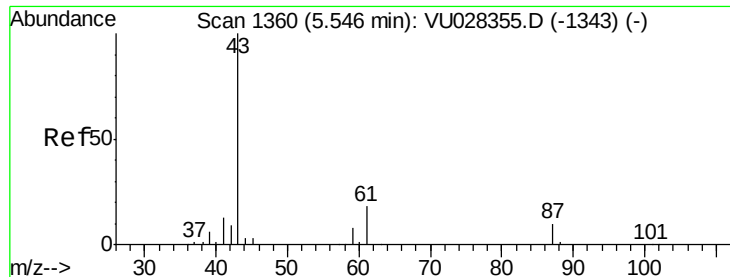
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.9	82.9	124.3
192	18.9	15.4	23.0



#37
 Ethyl Acetate
 Concen: 2.933 ug/l
 RT: 4.39 min Scan# 1000
 Delta R.T. 0.01 min
 Lab File: VU028450.D
 Acq: 03 Dec 2018 18:38

Tgt Ion	Ratio	Lower	Upper
43	100		
61	6.3	10.2	15.4#
70	4.2	6.9	10.3#





#43

Isopropyl Acetate

Concen: 1.948 ug/l

RT: 5.55 min Scan# 1362

Delta R.T. 0.01 min

Lab File: VU028450.D

Acq: 03 Dec 2018 18:38

Instrument :

MSVOA_U

ClientSampleId :

ENGINE-WASH

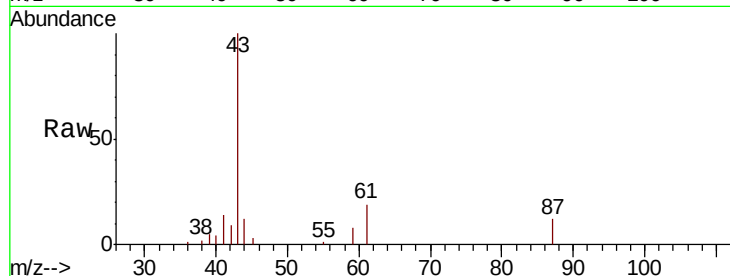
Tot Ion: 43 Resp: 25357

Ion Ratio Lower Upper

43 100

61 17.5 14.5 21.7

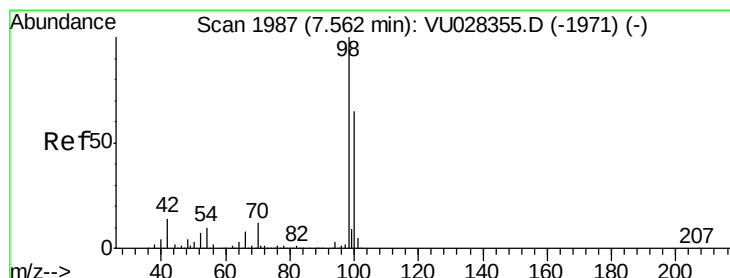
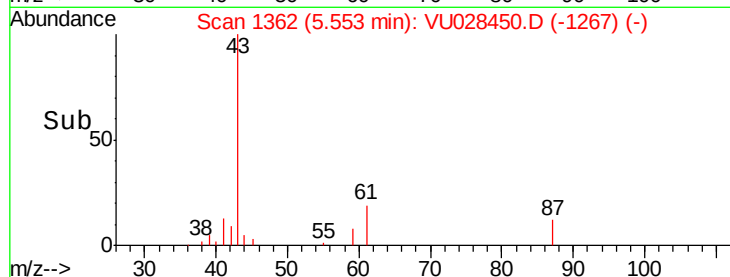
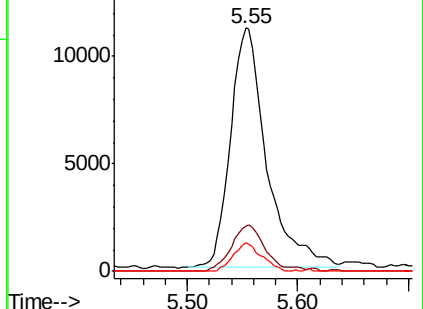
87 9.2 8.4 12.6



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



#50

Toluene-d8

Concen: 48.739 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VU028450.D

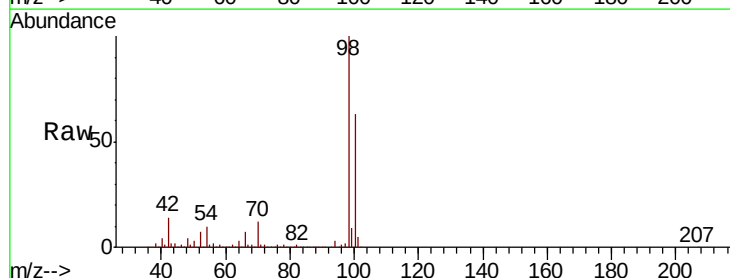
Acq: 03 Dec 2018 18:38

Tgt Ion: 98 Resp: 713938

Ion Ratio Lower Upper

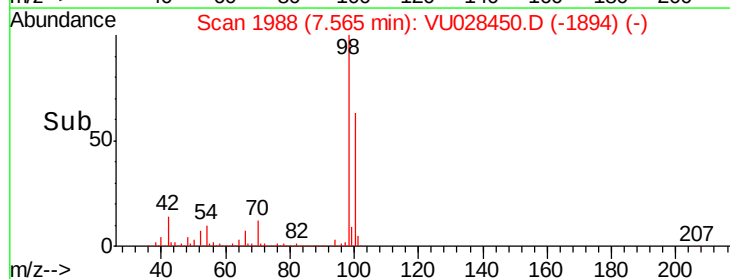
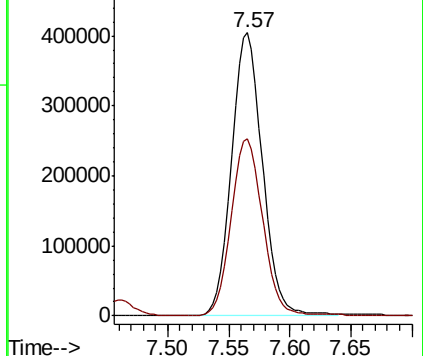
98 100

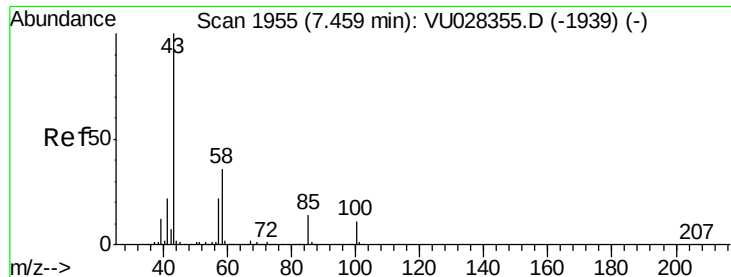
100 63.8 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU0





#51

4-Methyl-2-Pentanone

Concen: 43.040 ug/l

RT: 7.46 min Scan# 1955

Delta R.T. 0.00 min

Lab File: VU028450.D

Acq: 03 Dec 2018 18:38

Instrument :

MSVOA_U

ClientSampleId :

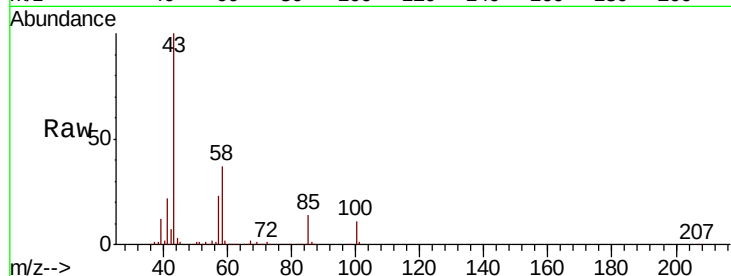
ENGINE-WASH

Tot Ion: 43 Resp: 357812

Ion Ratio Lower Upper

43 100

58 37.3 28.8 43.2



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

7.46

200000

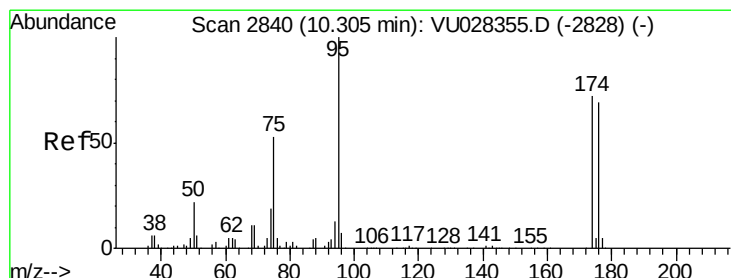
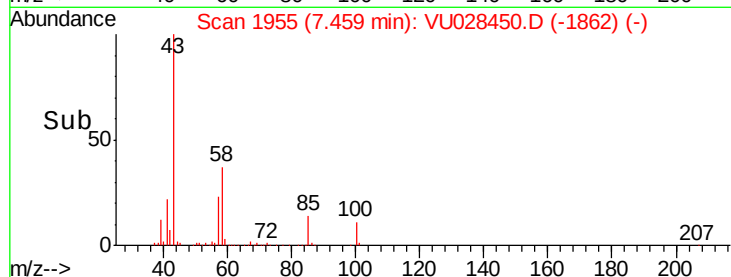
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 50.883 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. 0.00 min

Lab File: VU028450.D

Acq: 03 Dec 2018 18:38

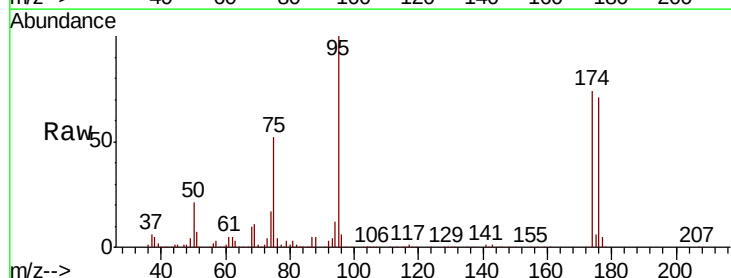
Tgt Ion: 95 Resp: 268642

Ion Ratio Lower Upper

95 100

174 73.8 0.0 145.4

176 71.8 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

10.30

200000

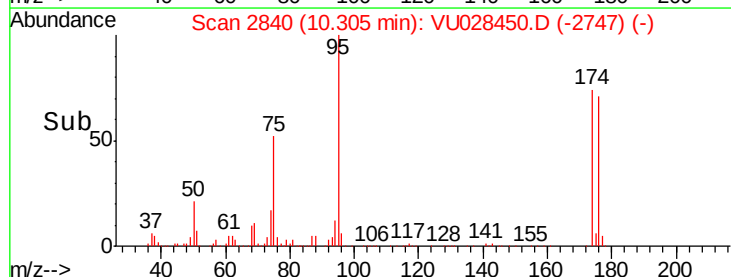
150000

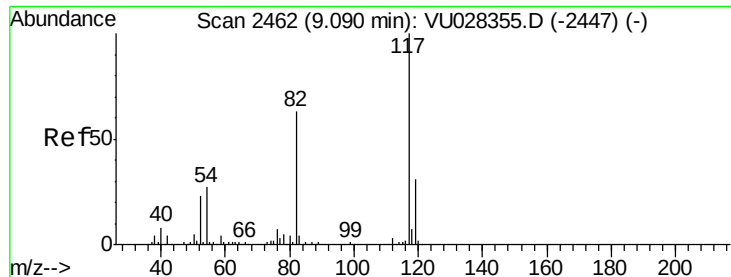
100000

50000

0

Time-->

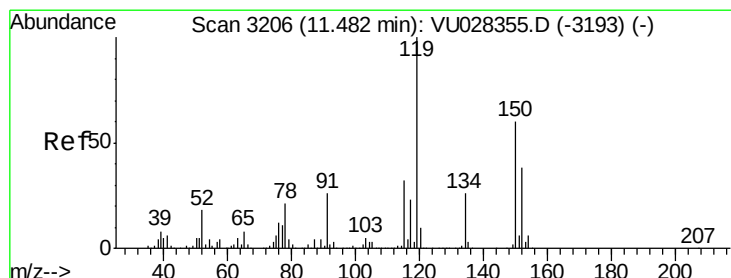
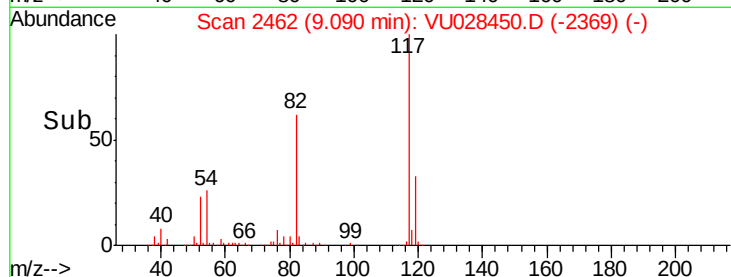
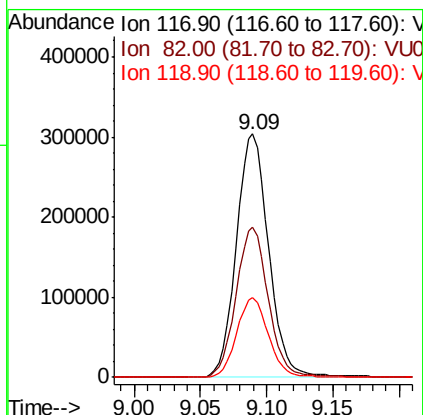
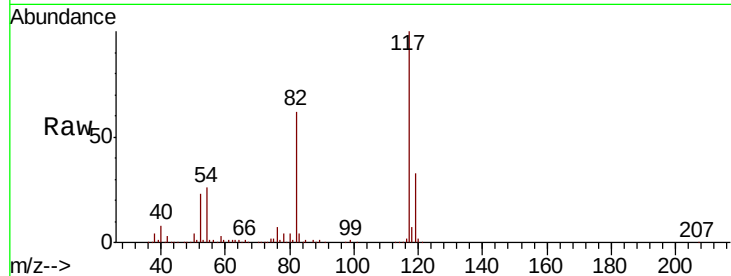




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. 0.00 min
Lab File: VU028450.D
Acq: 03 Dec 2018 18:38

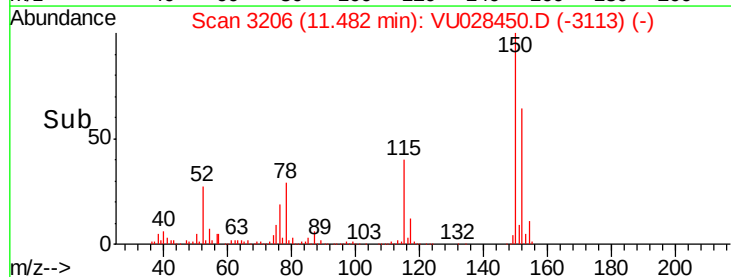
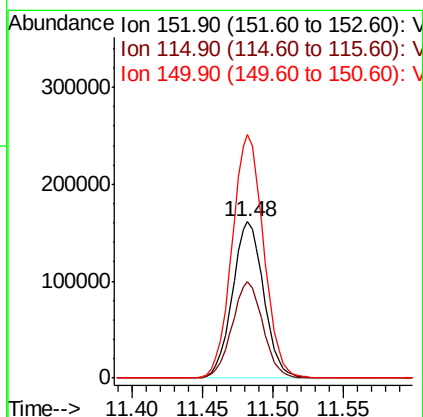
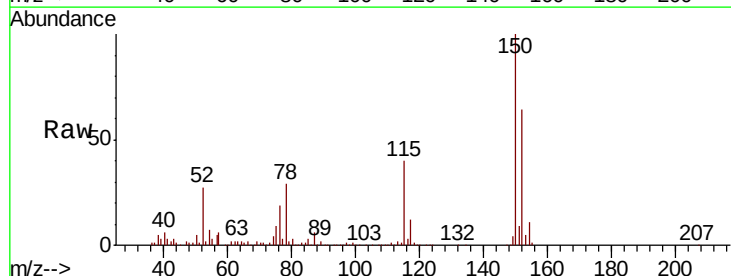
Instrument :
MSVOA_U
ClientSampleId :
ENGINE-WASH

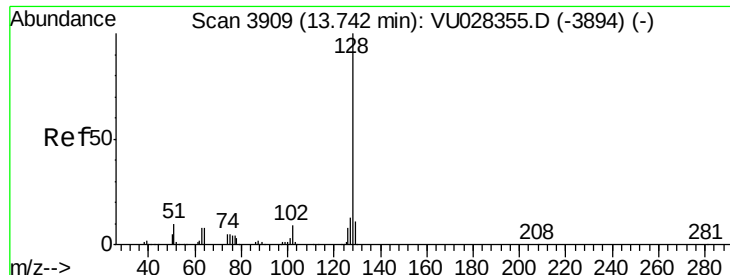
Tot Ion:117 Resp: 513619
Ion Ratio Lower Upper
117 100
82 61.6 50.3 75.5
119 32.5 24.8 37.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3206
Delta R.T. 0.00 min
Lab File: VU028450.D
Acq: 03 Dec 2018 18:38

Tgt Ion:152 Resp: 250546
Ion Ratio Lower Upper
152 100
115 60.8 45.0 134.8
150 156.7 0.0 349.2





#95

Naphthalene

Concen: 3.723 ug/l

RT: 13.74 min Scan# 3909

Delta R.T. 0.00 min

Lab File: VU028450.D

Acq: 03 Dec 2018 18:38

Instrument :

MSVOA_U

ClientSampleId :

ENGINE-WASH

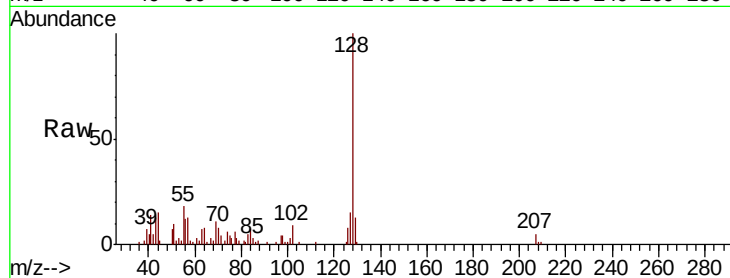
Tot Ion:128 Resp: 19842

Ion Ratio Lower Upper

128 100

127 14.6 10.6 15.8

129 12.1 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

