

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092818\
 Data File : VU027299.D
 Acq On : 29 Sep 2018 02:42
 Operator : MD/SY
 Sample : J4776-06
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 EO-01-092718-A

Quant Time: Sep 29 07:03:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U092218W.M
 Quant Title : SW846 8260
 QLast Update : Sat Sep 22 01:31:57 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	108093	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	184596	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	179506	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	85823	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	107266	49.31	ug/l	0.00
Spiked Amount			Recovery	=	98.62%	
35) Dibromofluoromethane	4.88	113	74970	46.85	ug/l	0.00
Spiked Amount			Recovery	=	93.70%	
50) Toluene-d8	7.57	98	292221	47.92	ug/l	0.00
Spiked Amount			Recovery	=	95.84%	
62) 4-Bromofluorobenzene	10.31	95	99388	47.50	ug/l	0.00
Spiked Amount			Recovery	=	95.00%	

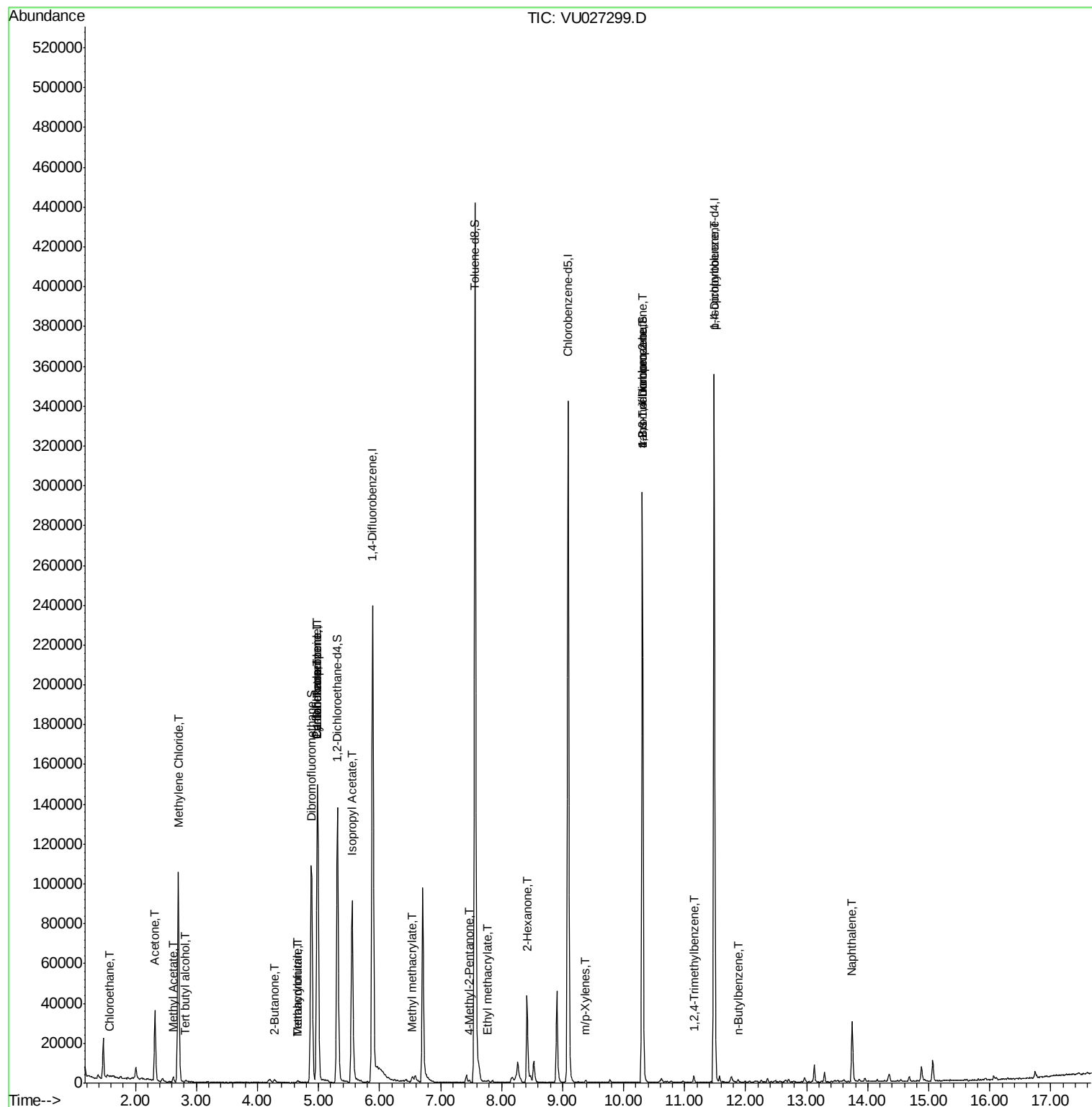
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.59	64	784	0.540	ug/l #	43
11) Tert butyl alcohol	2.83	59	891	1.787	ug/l #	72
16) Acetone	2.32	43	36168	15.752	ug/l	96
18) Methyl Acetate	2.62	43	2718	0.878	ug/l	96
20) Methylene Chloride	2.70	84	43530	22.342	ug/l	98
25) 2-Butanone	4.28	43	2804	1.534	ug/l	96
29) Tetrahydrofuran	4.66	42	761	0.688	ug/l #	43
31) Cyclohexane	4.98	56	2573	0.221	ug/l #	1
36) 1,1-Dichloropropene	4.99	75	9919	4.026	ug/l #	50
38) Carbon Tetrachloride	4.99	117	10867	4.635	ug/l #	17
41) Methacrylonitrile	4.66	41	378	0.218	ug/l #	38
43) Isopropyl Acetate	5.55	43	107079	22.015	ug/l	99
48) Methyl methacrylate	6.54	41	4134	2.542	ug/l #	23
51) 4-Methyl-2-Pentanone	7.47	43	915	0.280	ug/l #	67
56) Ethyl methacrylate	7.77	69	849	2.451	ug/l #	73
59) 2-Hexanone	8.42	43	6429	2.511	ug/l #	55
68) m/p-Xylenes	9.38	106	383	1.620	ug/l #	56
76) 1,2,3-Trichloropropane	10.31	75	52497	20.135	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	52497	64.435	ug/l #	100
84) 1,2,4-Trimethylbenzene	11.15	105	2197	0.401	ug/l	89
86) p-Isopropyltoluene	11.48	119	168	0.955	ug/l #	1
89) n-Butylbenzene	11.88	91	351	2.449	ug/l #	12
95) Naphthalene	13.75	128	25303	5.130	ug/l	98

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

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Quant Title : SW846 8260
QLast Update : Sat Sep 22 01:31:57 2018
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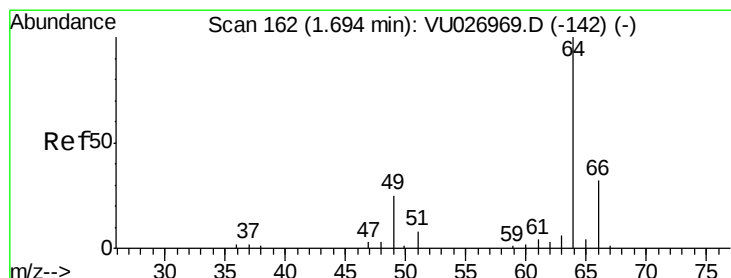
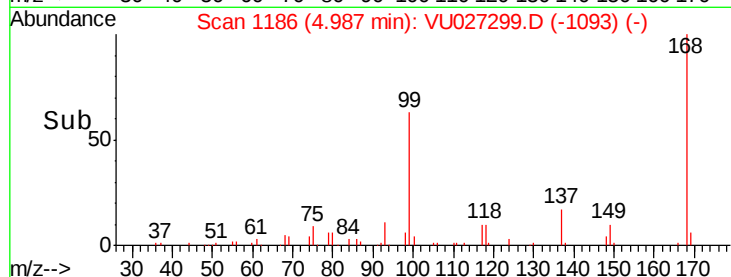
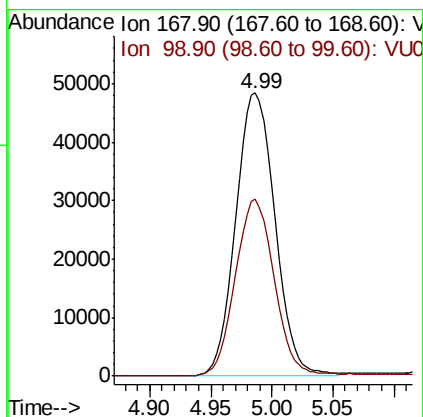
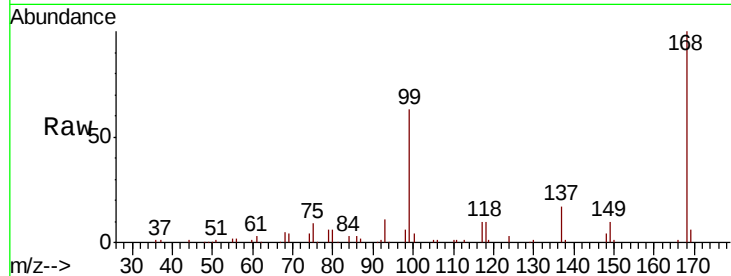




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.99 min Scan# 1186
Delta R.T. -0.00 min
Lab File: VU027299.D
Acq: 29 Sep 2018 02:42

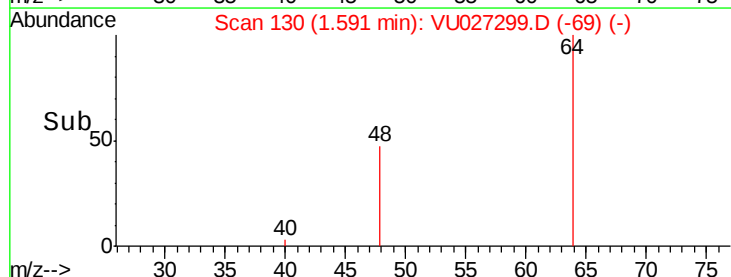
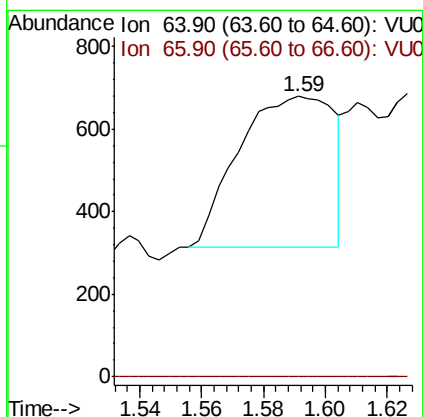
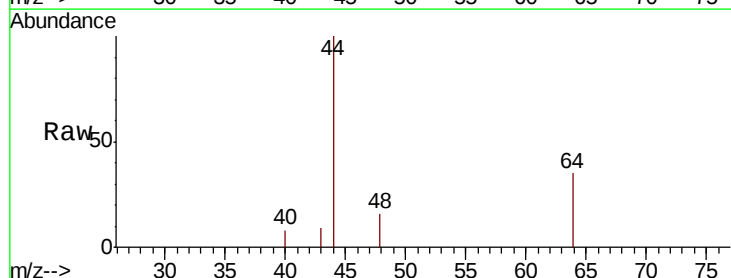
Instrument :
MSVOA_U
ClientSampleId :
EO-01-092718-A

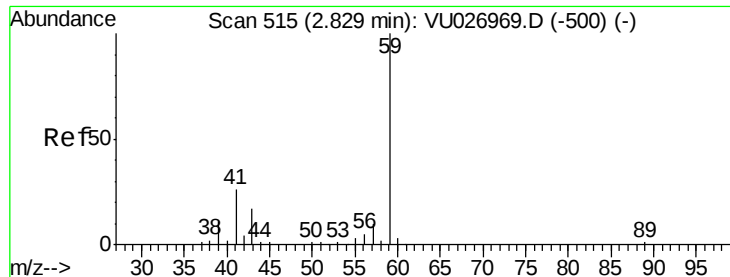
Tgt Ion:168 Resp: 108093
Ion Ratio Lower Upper
168 100
99 62.7 48.1 72.1



#6
Chloroethane
Concen: 0.540 ug/l
RT: 1.59 min Scan# 130
Delta R.T. -0.10 min
Lab File: VU027299.D
Acq: 29 Sep 2018 02:42

Tgt Ion: 64 Resp: 784
Ion Ratio Lower Upper
64 100
66 0.0 25.3 37.9#

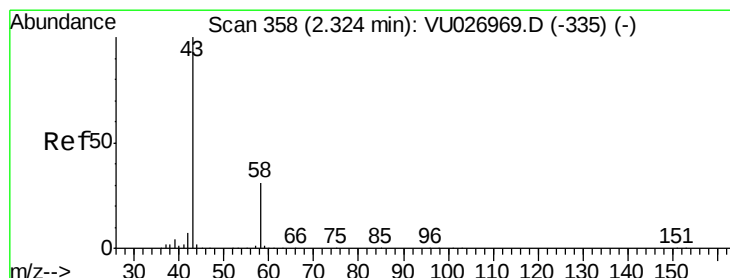
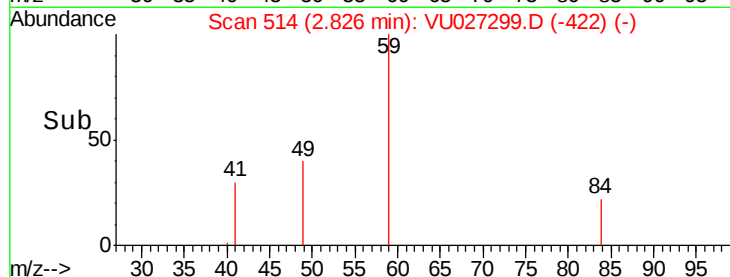
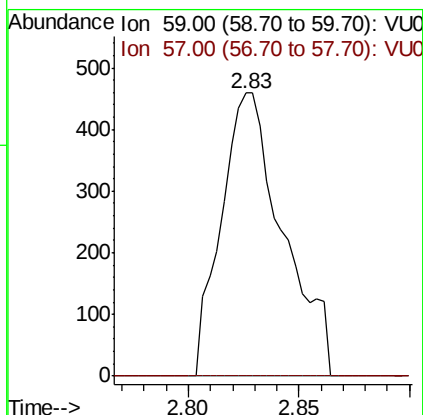
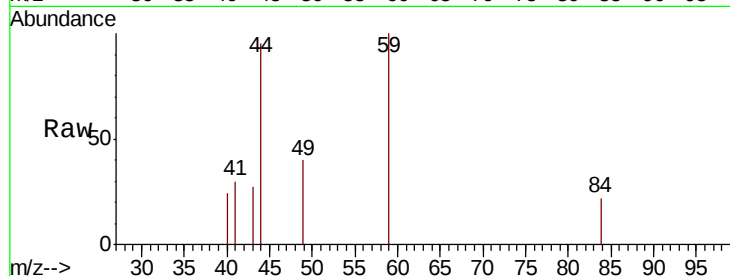




#11
Tert butyl alcohol
Concen: 1.787 ug/l
RT: 2.83 min Scan# 514
Delta R.T. -0.00 min
Lab File: VU027299.D
Acq: 29 Sep 2018 02:42

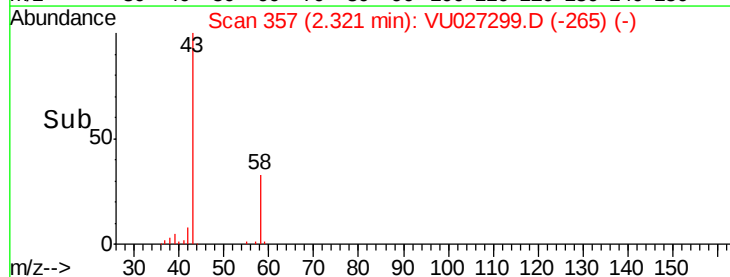
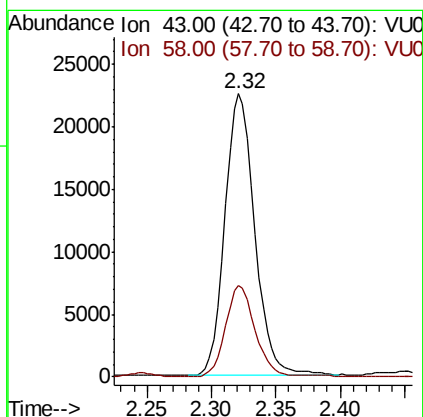
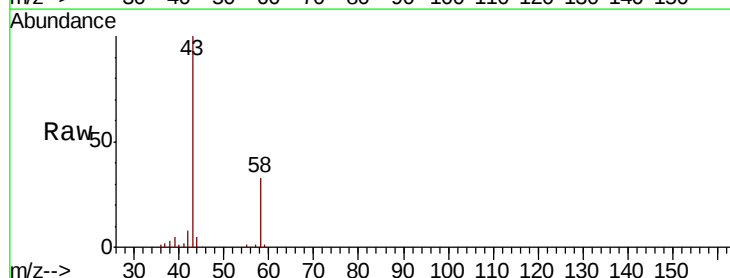
Instrument :
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ClientSampleId :
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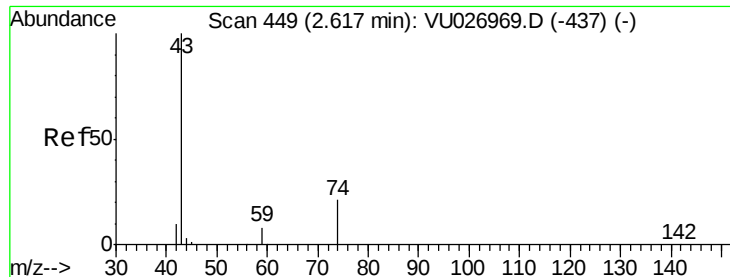
Tgt Ion: 59 Resp: 891
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#16
Acetone
Concen: 15.752 ug/l
RT: 2.32 min Scan# 357
Delta R.T. -0.00 min
Lab File: VU027299.D
Acq: 29 Sep 2018 02:42

Tgt Ion: 43 Resp: 36168
Ion Ratio Lower Upper
43 100
58 32.7 24.6 36.8

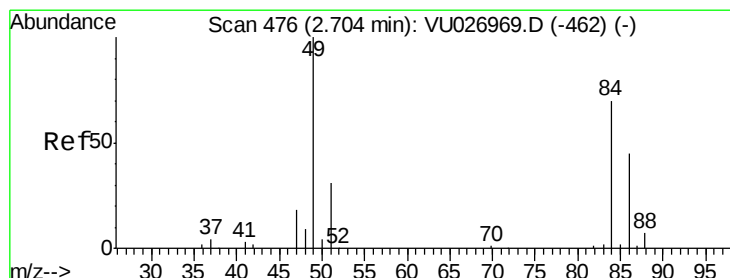
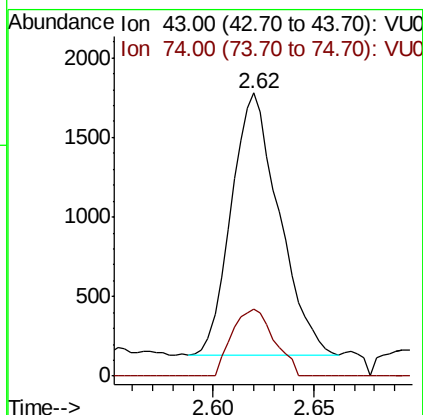
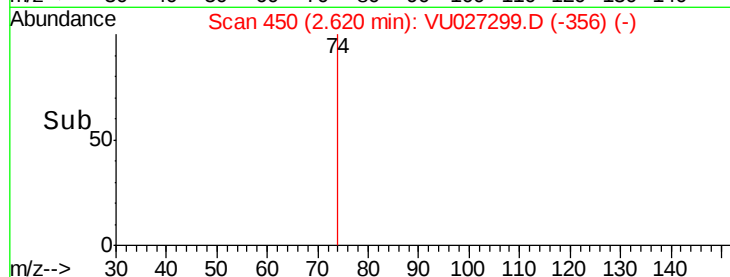
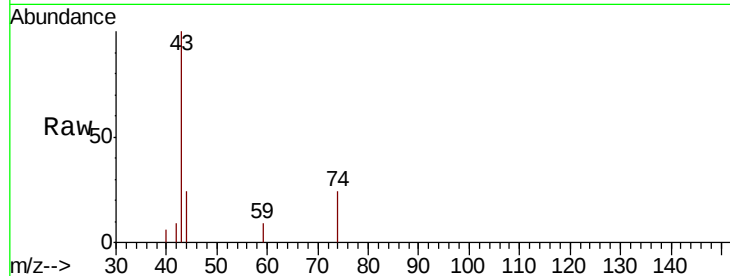




#18
Methyl Acetate
Concen: 0.878 ug/l
RT: 2.62 min Scan# 450
Delta R.T. 0.00 min
Lab File: VU027299.D
Acq: 29 Sep 2018 02:42

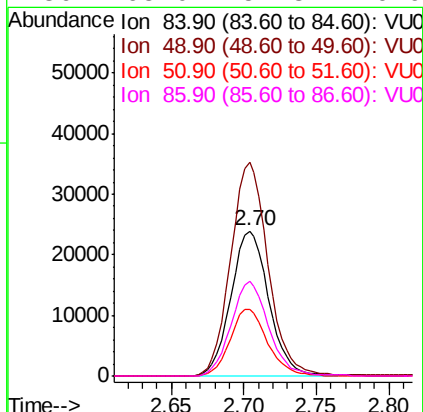
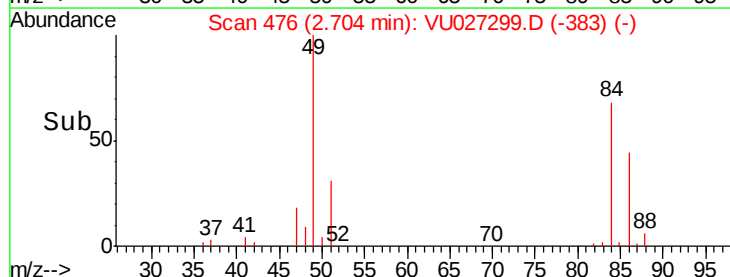
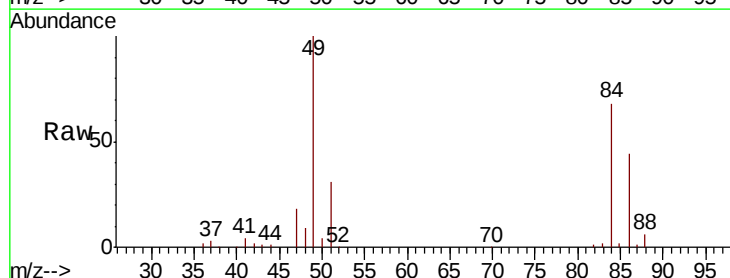
Instrument :
MSVOA_U
ClientSampleId :
EO-01-092718-A

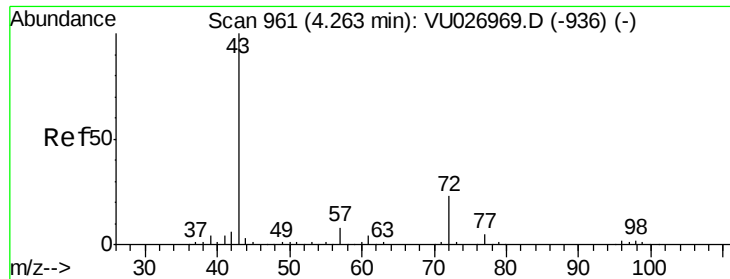
Tgt Ion: 43 Resp: 2718
Ion Ratio Lower Upper
43 100
74 22.8 16.6 25.0



#20
Methylene Chloride
Concen: 22.342 ug/l
RT: 2.70 min Scan# 476
Delta R.T. -0.00 min
Lab File: VU027299.D
Acq: 29 Sep 2018 02:42

Tgt Ion: 84 Resp: 43530
Ion Ratio Lower Upper
84 100
49 147.5 114.9 172.3
51 45.8 35.8 53.8
86 65.0 51.3 76.9





#25

2-Butanone

Concen: 1.534 ug/l

RT: 4.28 min Scan# 966

Delta R.T. 0.02 min

Lab File: VU027299.D

Acq: 29 Sep 2018 02:42

Instrument :

MSVOA_U

ClientSampleId :

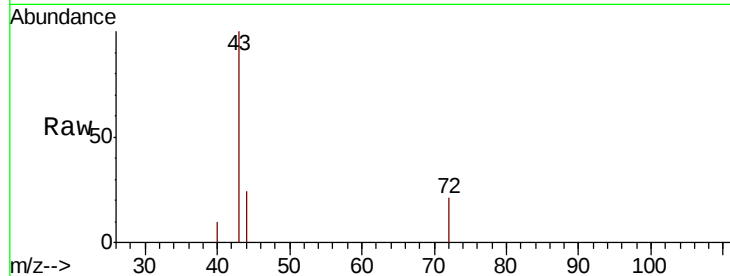
EO-01-092718-A

Tgt Ion: 43 Resp: 2804

Ion Ratio Lower Upper

43 100

72 20.9 18.4 27.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

Time-->

4.25 4.30

4.28

1200

1000

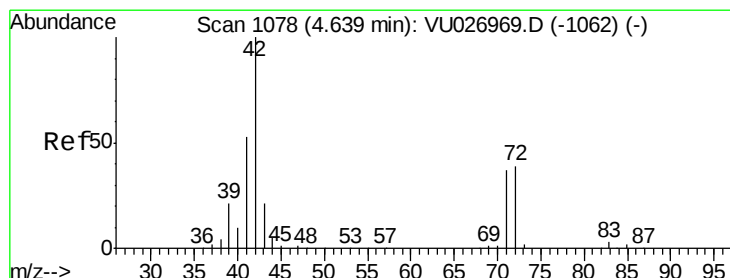
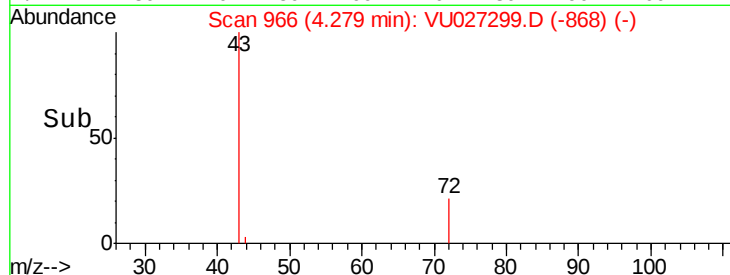
800

600

400

200

0



#29

Tetrahydrofuran

Concen: 0.688 ug/l

RT: 4.66 min Scan# 1083

Delta R.T. 0.02 min

Lab File: VU027299.D

Acq: 29 Sep 2018 02:42

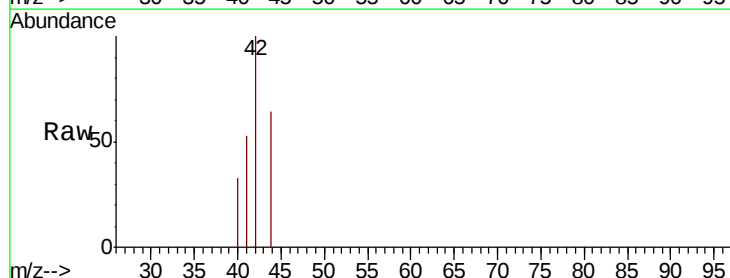
Tgt Ion: 42 Resp: 761

Ion Ratio Lower Upper

42 100

72 2.6 31.7 47.5#

71 5.4 29.6 44.4#



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

Time-->

4.60 4.65 4.70

4.66

500

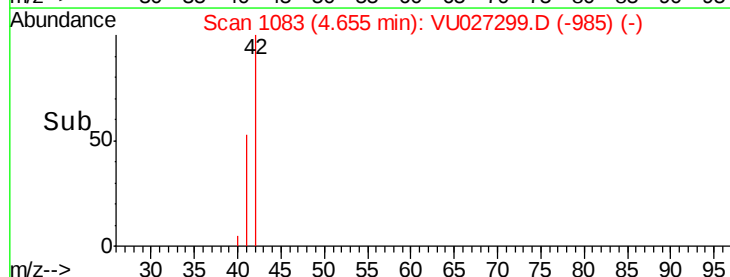
400

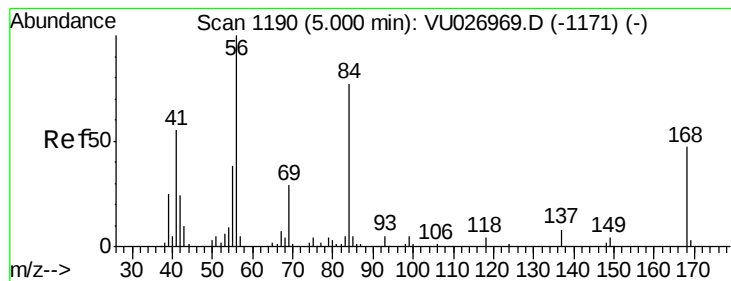
300

200

100

0





#31

Cyclohexane

Concen: 0.221 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.02 min

Lab File: VU027299.D

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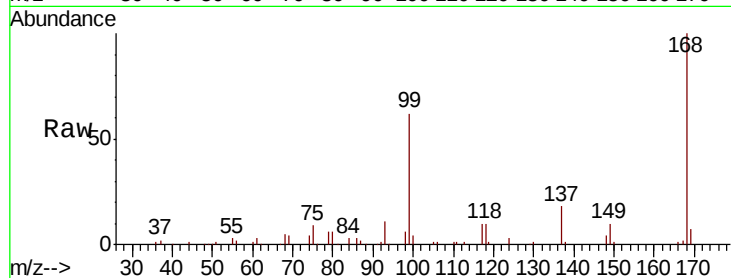
Tgt Ion: 56 Resp: 2573

Ion Ratio Lower Upper

56 100

69 178.3 23.0 34.4#

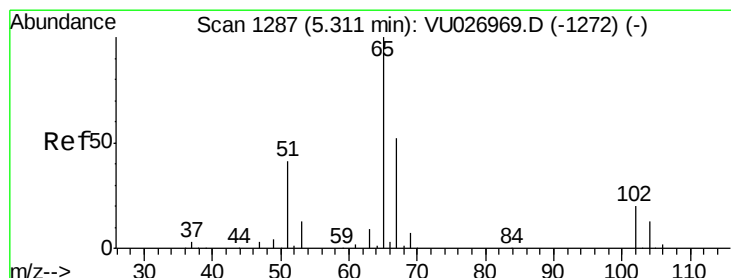
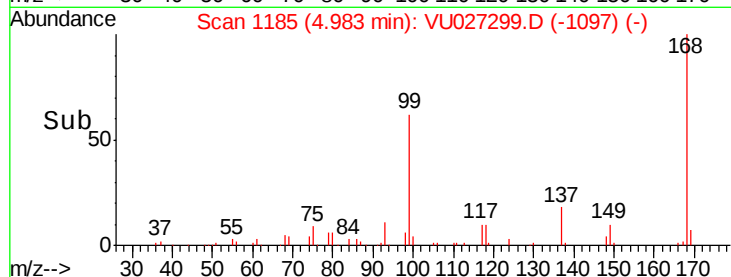
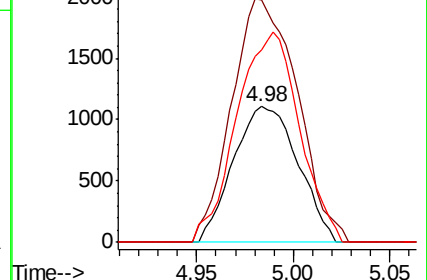
84 141.5 61.4 92.2#



Abundance Ion 56.00 (55.70 to 56.70): VU027299.D (-1185) (-)

Ion 69.00 (68.70 to 69.70): VU027299.D (-1185) (-)

Ion 84.00 (83.70 to 84.70): VU027299.D (-1185) (-)



#33

1,2-Dichloroethane-d4

Concen: 49.305 ug/l

RT: 5.31 min Scan# 1287

Delta R.T. -0.00 min

Lab File: VU027299.D

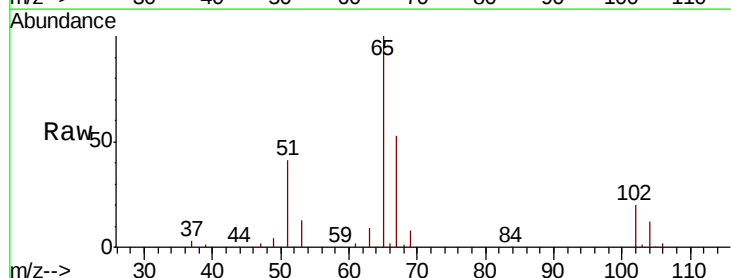
Acq: 29 Sep 2018 02:42

Tgt Ion: 65 Resp: 107266

Ion Ratio Lower Upper

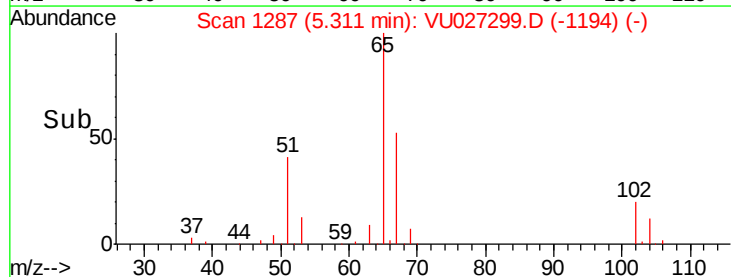
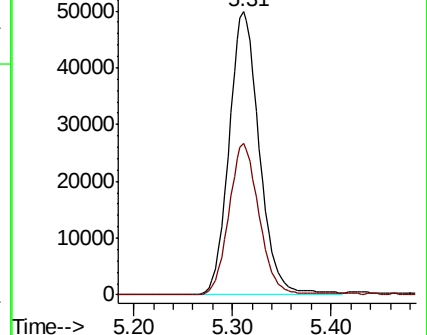
65 100

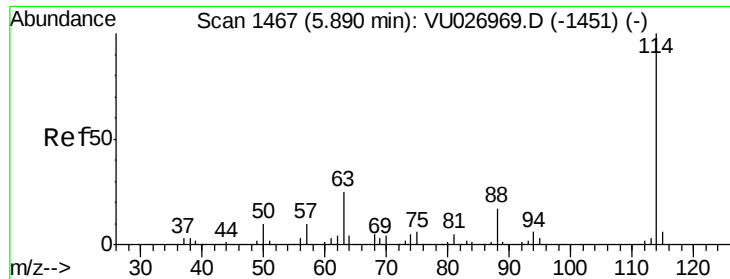
67 53.2 0.0 105.6



Abundance Ion 64.90 (64.60 to 65.60): VU027299.D (-1287) (-)

Ion 66.90 (66.60 to 67.60): VU027299.D (-1287) (-)

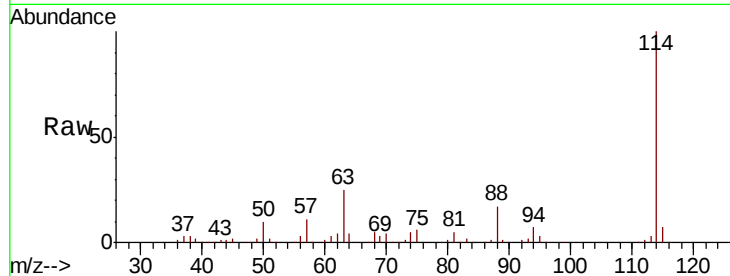




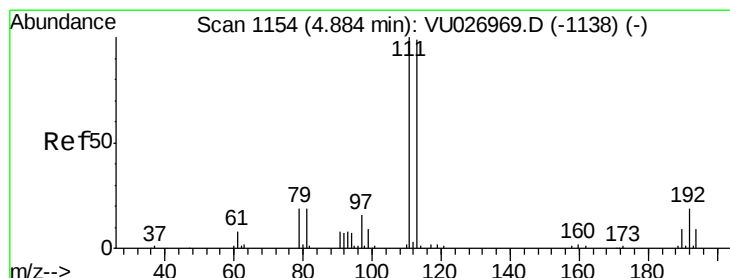
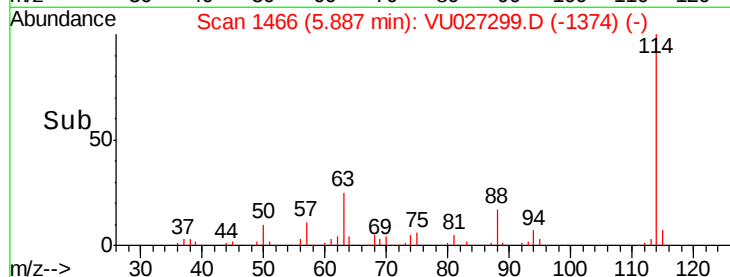
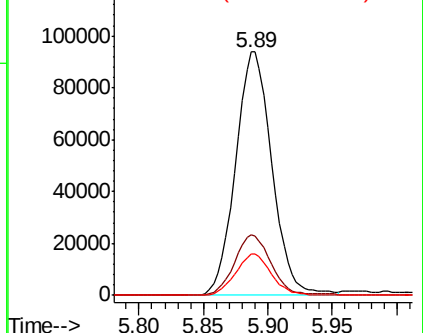
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. -0.00 min
 Lab File: VU027299.D
 Acq: 29 Sep 2018 02:42

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Tgt Ion:114 Resp: 184596
 Ion Ratio Lower Upper
 114 100
 63 24.8 0.0 49.2
 88 16.9 0.0 33.8

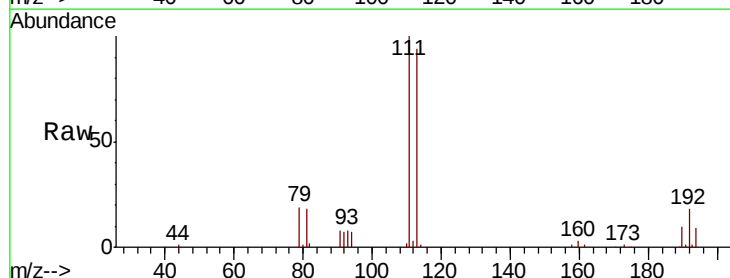


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

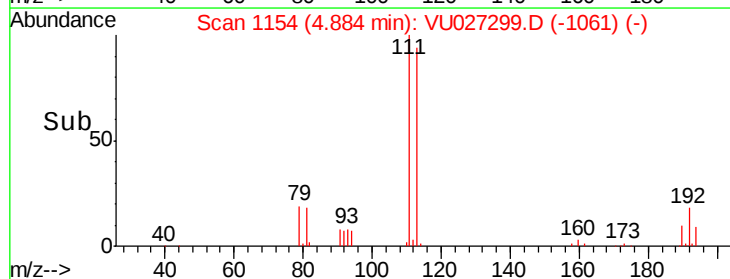
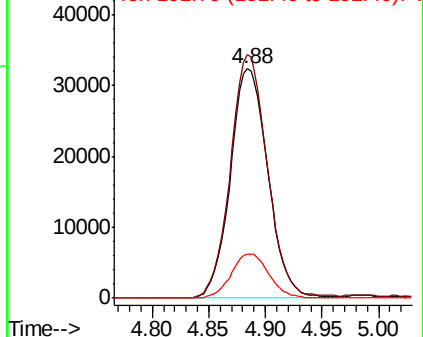


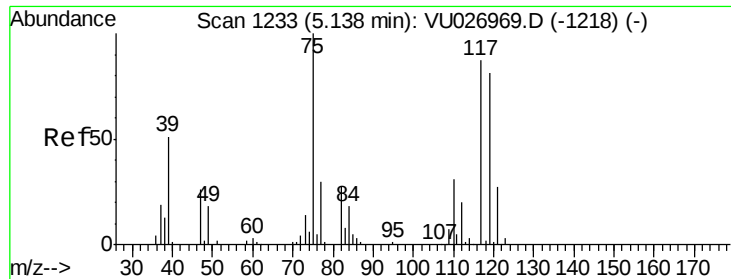
#35
 Dibromofluoromethane
 Concen: 46.854 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. -0.00 min
 Lab File: VU027299.D
 Acq: 29 Sep 2018 02:42

Tgt Ion:113 Resp: 74970
 Ion Ratio Lower Upper
 113 100
 111 104.2 82.2 123.4
 192 19.2 15.2 22.8



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

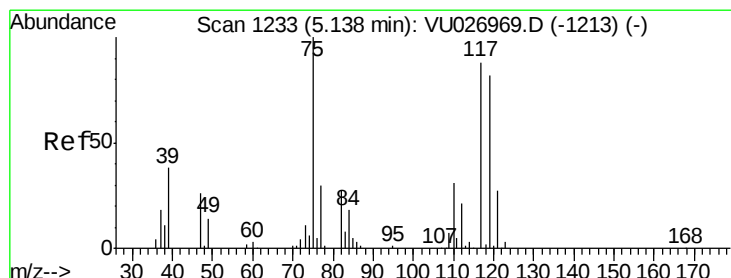
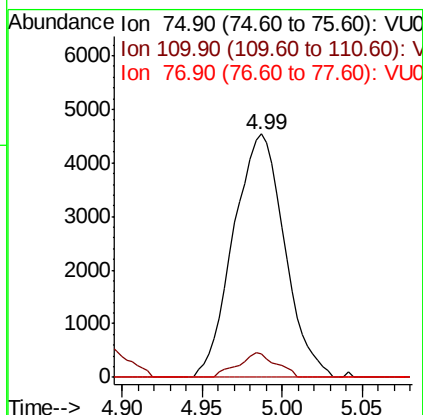
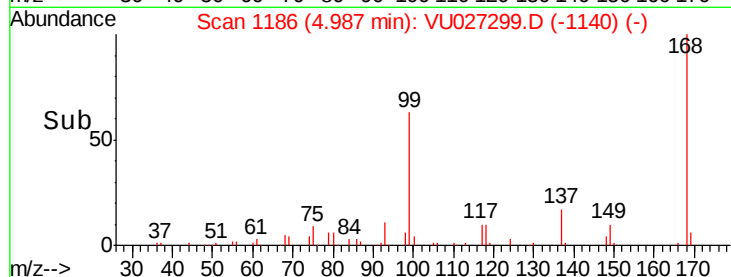
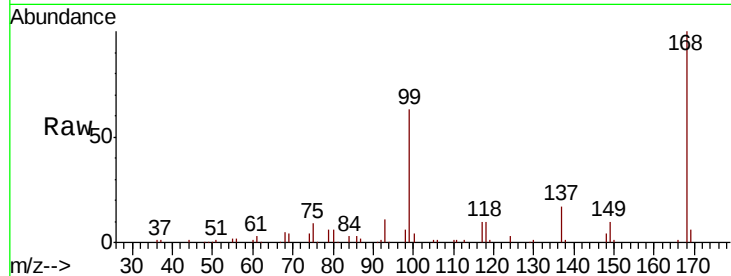




#36
 1,1-Dichloropropene
 Concen: 4.026 ug/l
 RT: 4.99 min Scan# 1186
 Delta R.T. -0.15 min
 Lab File: VU027299.D
 Acq: 29 Sep 2018 02:42

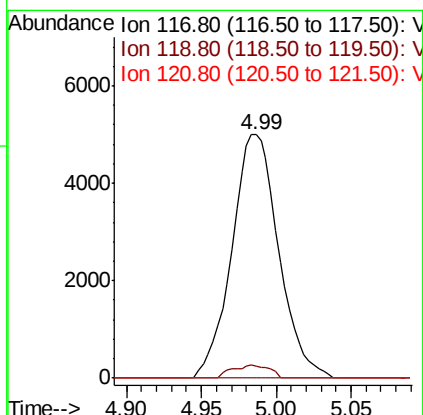
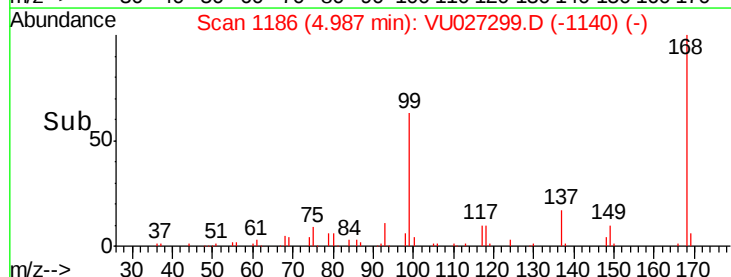
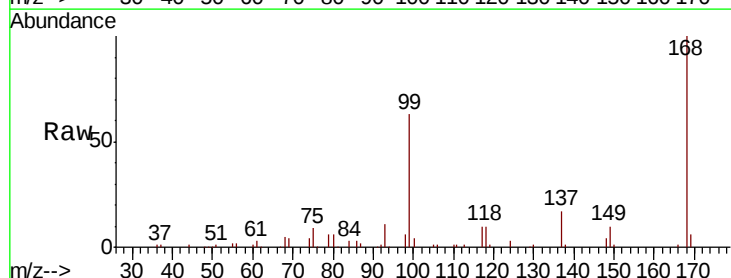
Instrument :
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 ClientSampleId :
 EO-01-092718-A

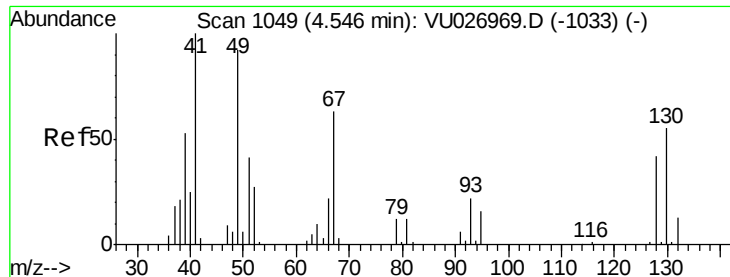
Tgt Ion: 75 Resp: 9919
 Ion Ratio Lower Upper
 75 100
 110 7.3 16.1 48.2#
 77 0.0 24.6 36.8#



#38
 Carbon Tetrachloride
 Concen: 4.635 ug/l
 RT: 4.99 min Scan# 1186
 Delta R.T. -0.15 min
 Lab File: VU027299.D
 Acq: 29 Sep 2018 02:42

Tgt Ion: 117 Resp: 10867
 Ion Ratio Lower Upper
 117 100
 119 5.1 74.4 111.6#
 121 0.0 24.2 36.4#





#41

Methacrylonitrile

Concen: 0.218 ug/l

RT: 4.66 min Scan# 1085

Delta R.T. 0.12 min

Lab File: VU027299.D

Acq: 29 Sep 2018 02:42

Instrument :

MSVOA_U

ClientSampleId :

EO-01-092718-A

Tgt Ion: 41 Resp: 378

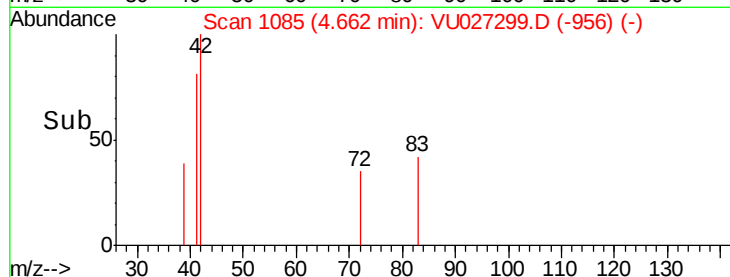
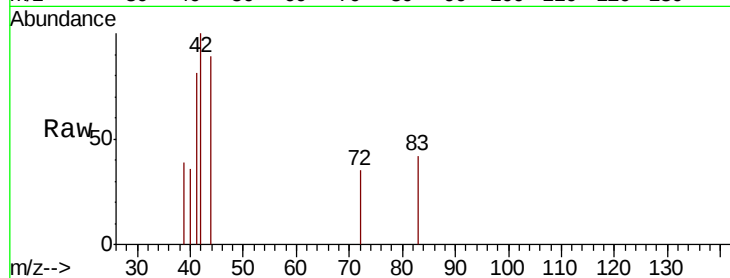
Ion Ratio Lower Upper

41 100

39 23.8 42.9 64.3#

67 0.0 52.4 78.6#

52 0.0 21.3 31.9#

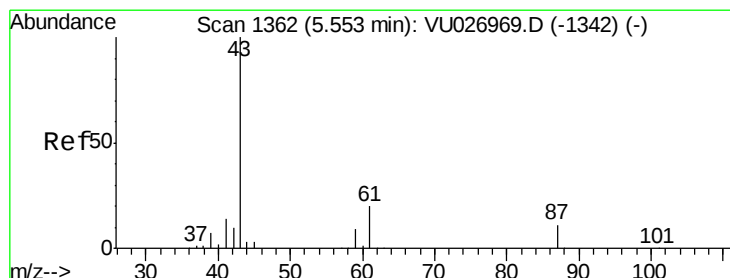
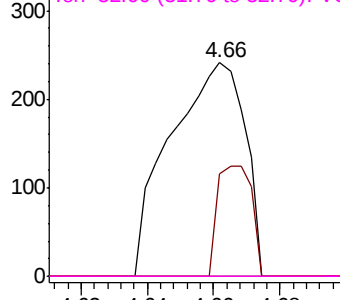


Abundance Ion 41.00 (40.70 to 41.70): VU0

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: 22.015 ug/l

RT: 5.55 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VU027299.D

Acq: 29 Sep 2018 02:42

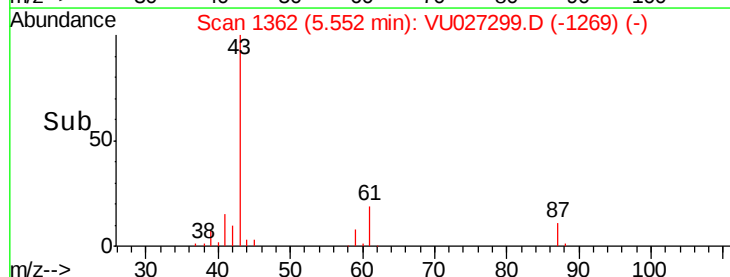
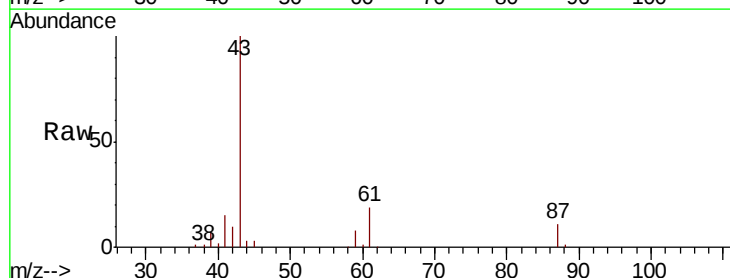
Tgt Ion: 43 Resp: 107079

Ion Ratio Lower Upper

43 100

61 19.0 15.7 23.5

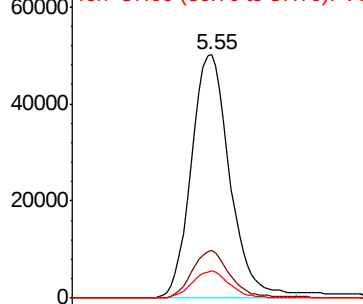
87 10.9 9.0 13.4

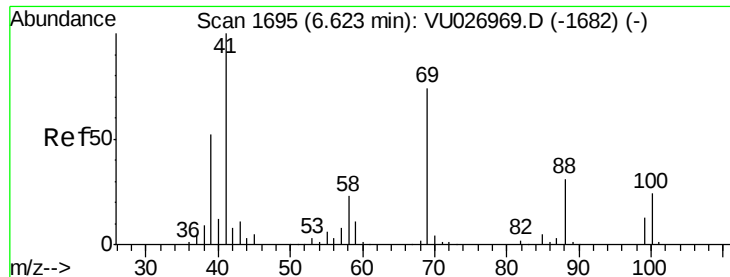


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0





#48

Methyl methacrylate

Concen: 2.542 ug/l

RT: 6.54 min Scan# 1669

Delta R.T. -0.08 min

Lab File: VU027299.D

Acq: 29 Sep 2018 02:42

Instrument :

MSVOA_U

ClientSampleId :

EO-01-092718-A

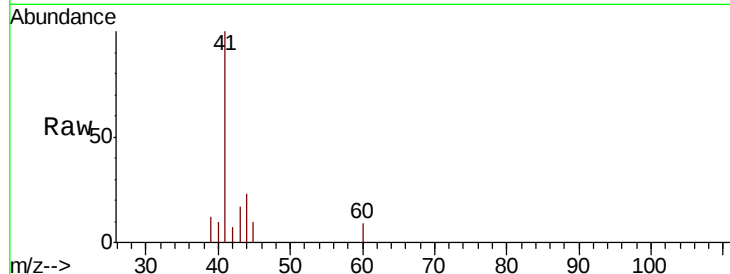
Tgt Ion: 41 Resp: 4134

Ion Ratio Lower Upper

41 100

69 0.0 60.6 90.8#

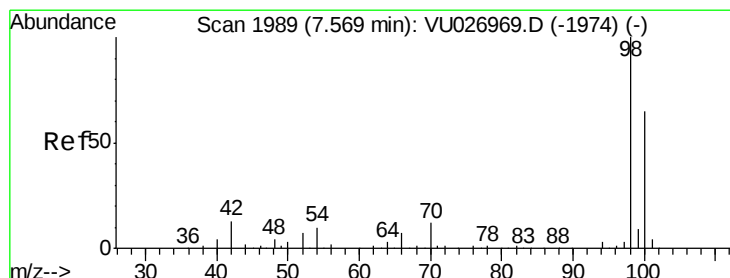
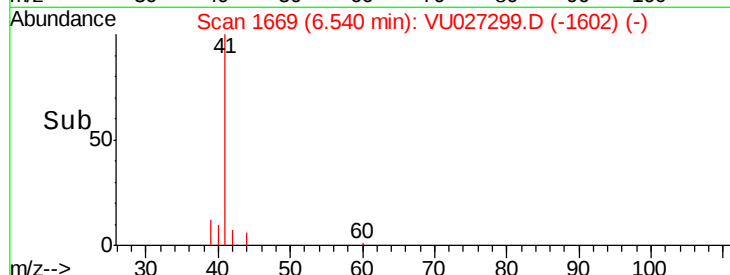
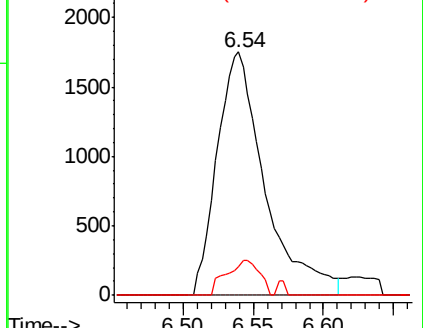
39 10.0 42.8 64.2#



Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 39.00 (38.70 to 39.70): VU0



#50

Toluene-d8

Concen: 47.921 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VU027299.D

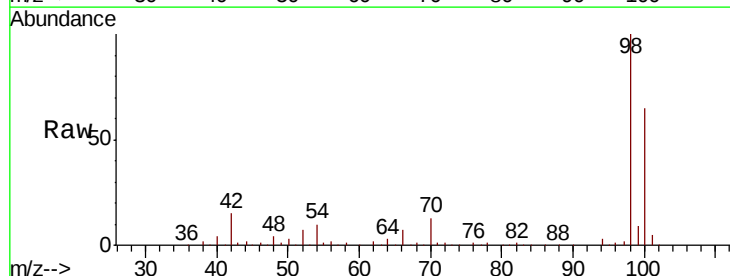
Acq: 29 Sep 2018 02:42

Tgt Ion: 98 Resp: 292221

Ion Ratio Lower Upper

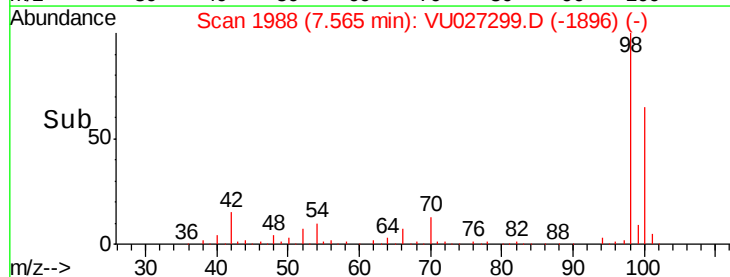
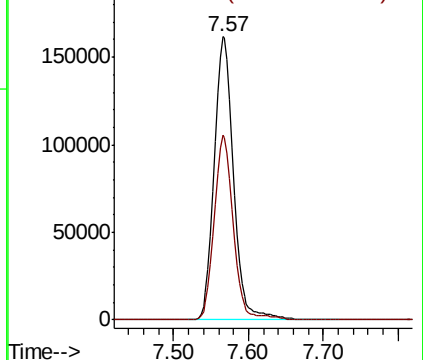
98 100

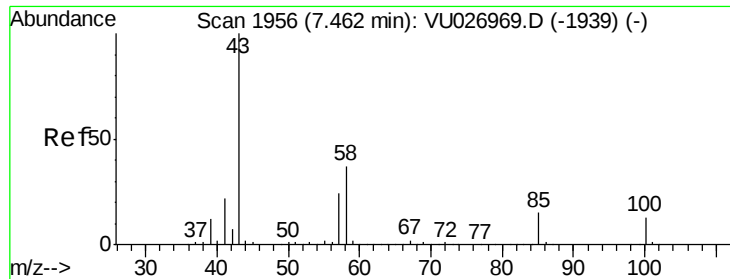
100 64.5 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU0

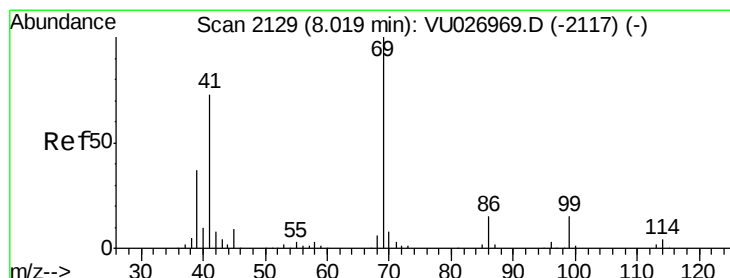
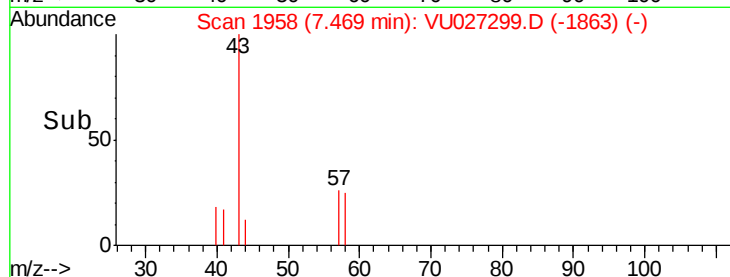
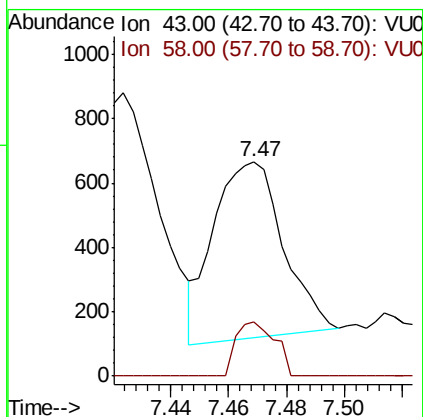
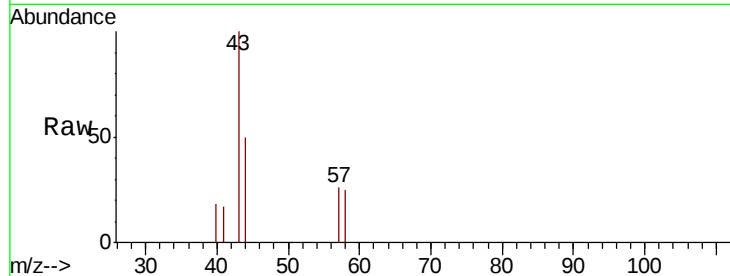




#51
 4-Methyl-2-Pentanone
 Concen: 0.280 ug/l
 RT: 7.47 min Scan# 1958
 Delta R.T. 0.01 min
 Lab File: VU027299.D
 Acq: 29 Sep 2018 02:42

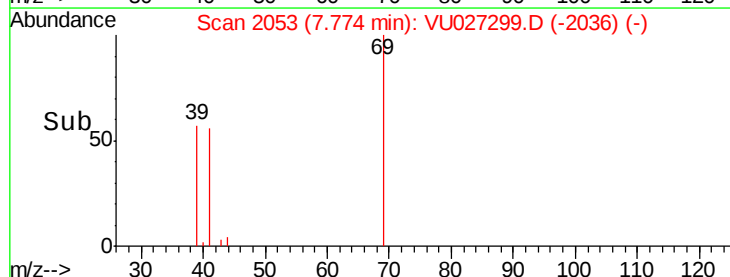
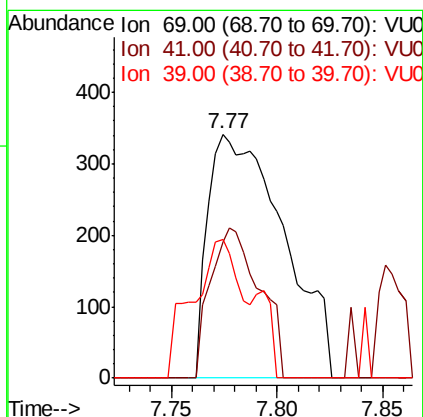
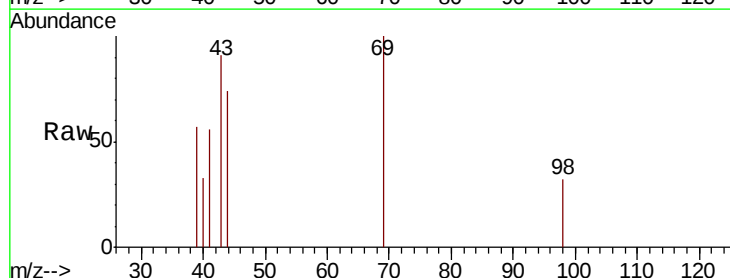
Instrument :
 MSVOA_U
 ClientSampleId :
 EO-01-092718-A

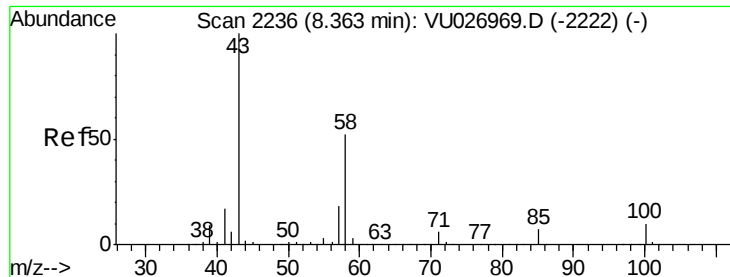
Tgt Ion: 43 Resp: 915
 Ion Ratio Lower Upper
 43 100
 58 17.3 29.8 44.6#



#56
 Ethyl methacrylate
 Concen: 2.451 ug/l
 RT: 7.77 min Scan# 2053
 Delta R.T. -0.24 min
 Lab File: VU027299.D
 Acq: 29 Sep 2018 02:42

Tgt Ion: 69 Resp: 849
 Ion Ratio Lower Upper
 69 100
 41 40.3 59.0 88.4#
 39 36.4 30.2 45.4





#59

2-Hexanone

Concen: 2.511 ug/l

RT: 8.42 min Scan# 2253

Delta R.T. 0.05 min

Lab File: VU027299.D

Acq: 29 Sep 2018 02:42

Instrument :

MSVOA_U

ClientSampleId :

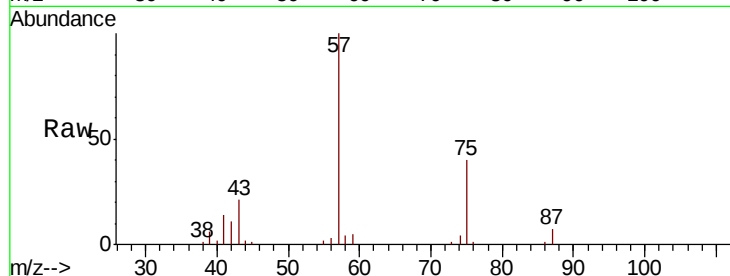
EO-01-092718-A

Tgt Ion: 43 Resp: 6429

Ion Ratio Lower Upper

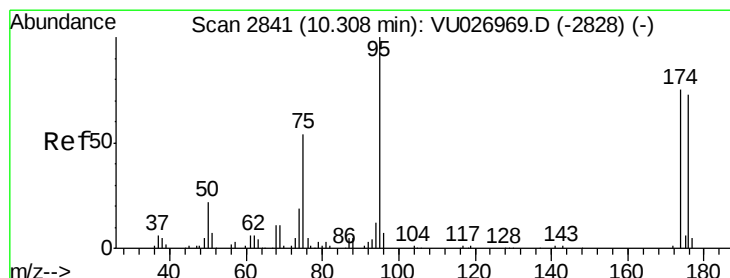
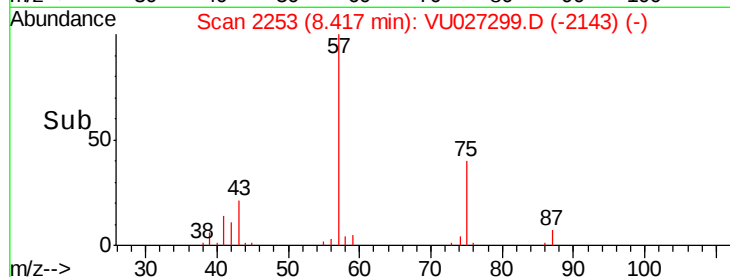
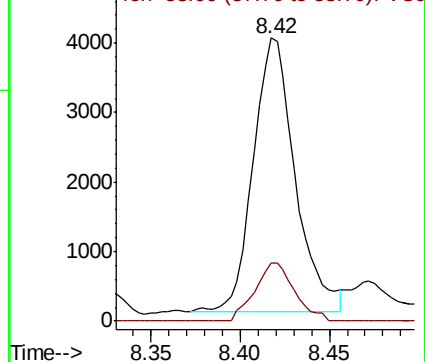
43 100

58 20.3 26.1 78.2#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#62

4-Bromofluorobenzene

Concen: 47.499 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.00 min

Lab File: VU027299.D

Acq: 29 Sep 2018 02:42

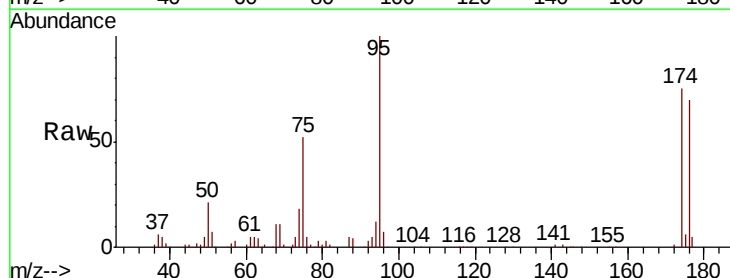
Tgt Ion: 95 Resp: 99388

Ion Ratio Lower Upper

95 100

174 74.6 0.0 150.2

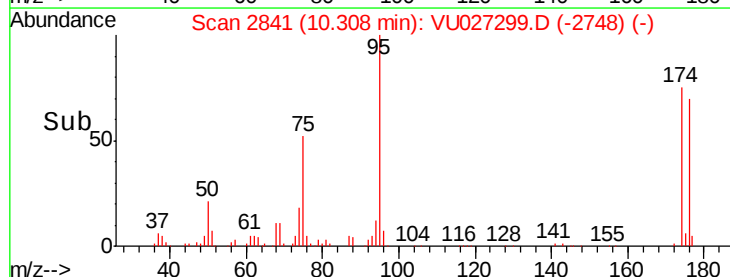
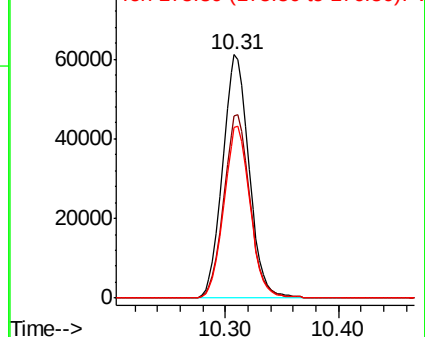
176 70.1 0.0 145.2

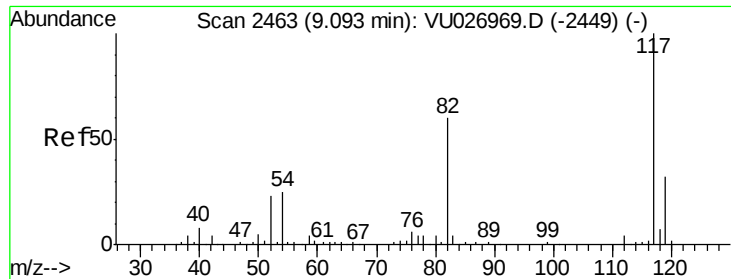


Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

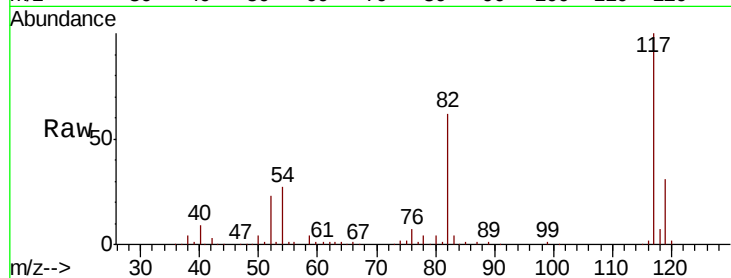




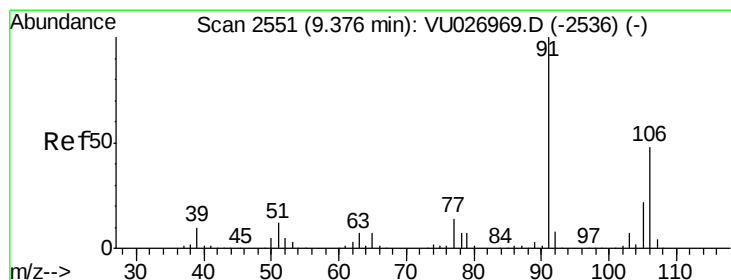
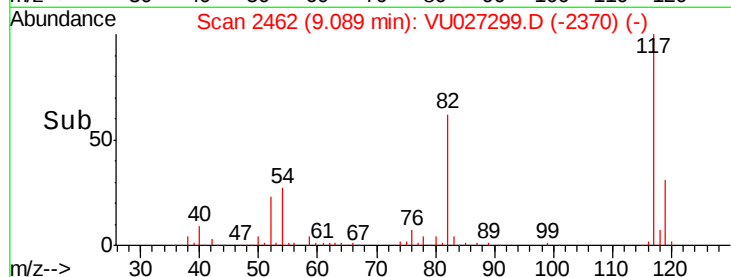
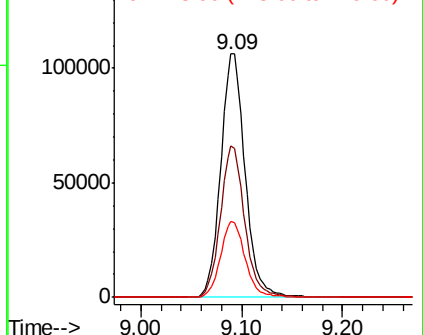
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU027299.D
Acq: 29 Sep 2018 02:42

Instrument :
MSVOA_U
ClientSampleId :
EO-01-092718-A

Tgt Ion:117 Resp: 179506
Ion Ratio Lower Upper
117 100
82 62.0 48.0 72.0
119 31.3 25.8 38.8

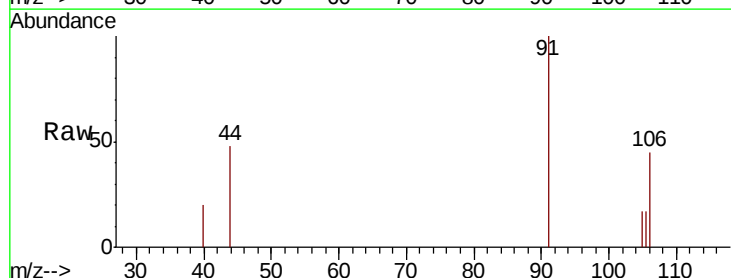


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

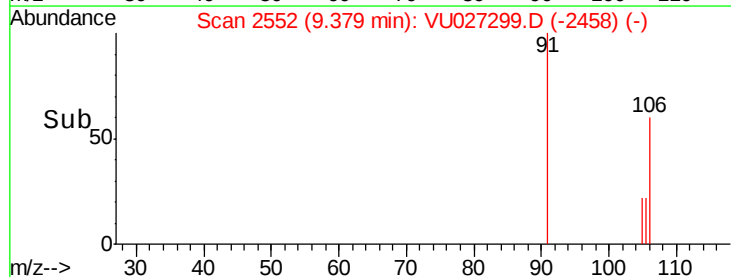
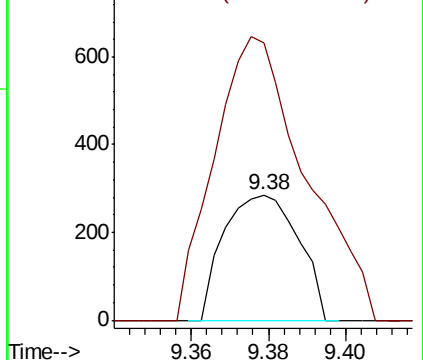


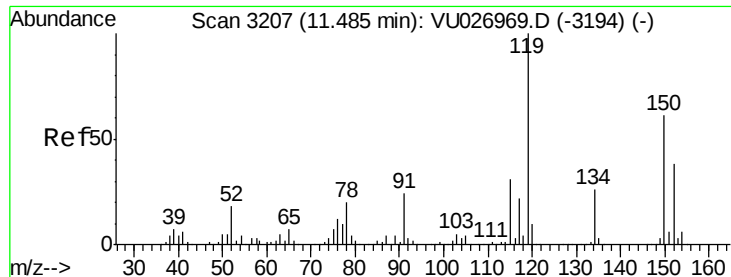
#68
m/p-Xylenes
Concen: 1.620 ug/l
RT: 9.38 min Scan# 2552
Delta R.T. 0.00 min
Lab File: VU027299.D
Acq: 29 Sep 2018 02:42

Tgt Ion:106 Resp: 383
Ion Ratio Lower Upper
106 100
91 276.0 166.5 249.7#



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3207

Delta R.T. -0.00 min

Lab File: VU027299.D

Acq: 29 Sep 2018 02:42

Instrument :

MSVOA_U

ClientSampleId :

EO-01-092718-A

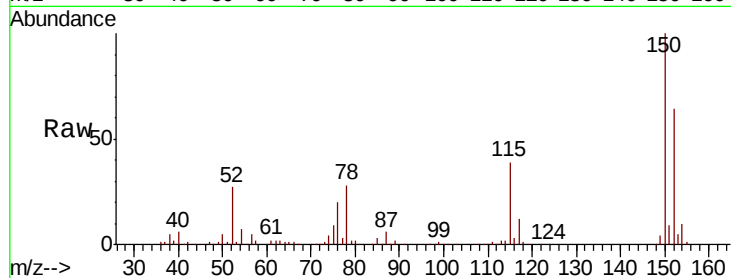
Tgt Ion:152 Resp: 85823

Ion Ratio Lower Upper

152 100

115 60.8 44.9 134.5

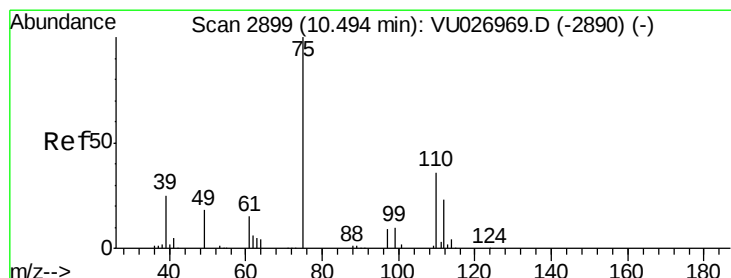
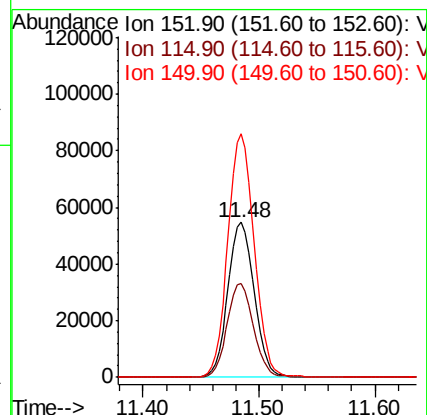
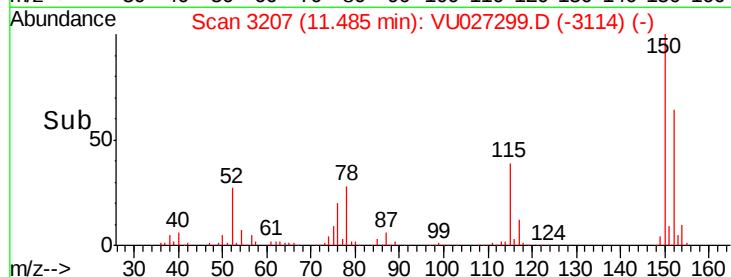
150 157.0 0.0 355.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 20.135 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU027299.D

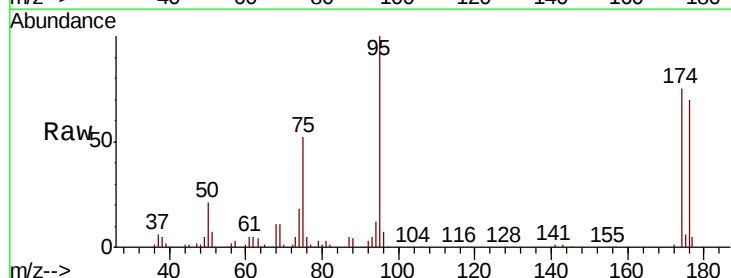
Acq: 29 Sep 2018 02:42

Tgt Ion: 75 Resp: 52497

Ion Ratio Lower Upper

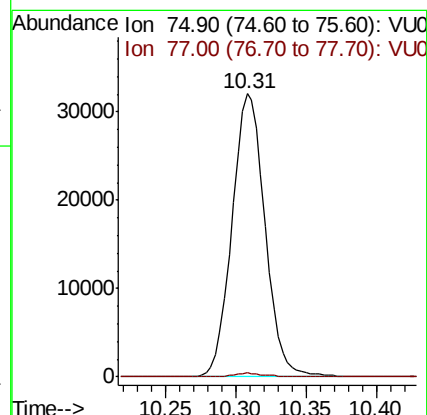
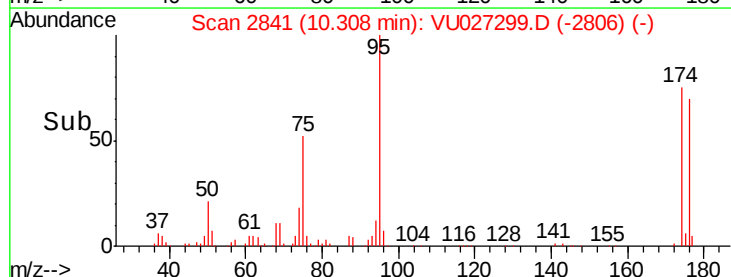
75 100

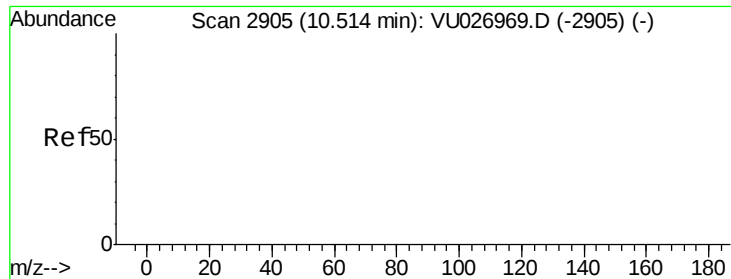
77 1.1 20.9 62.8#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

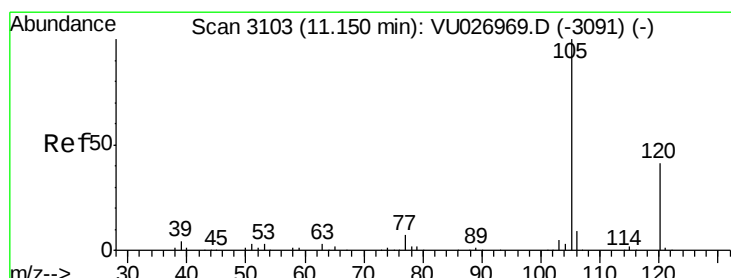
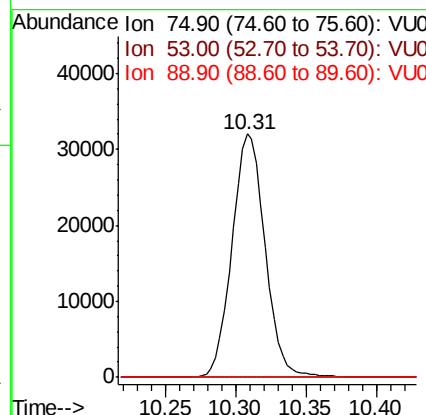
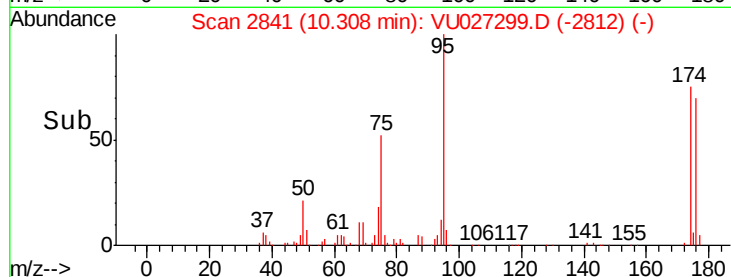
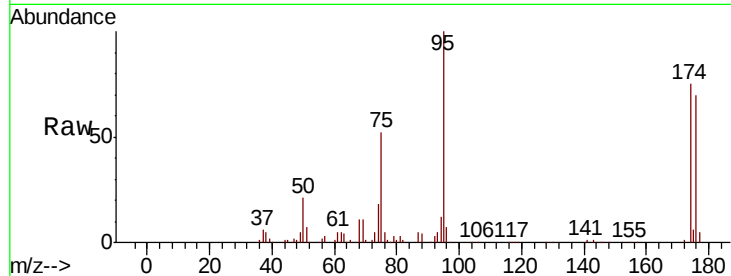




#81
trans-1,4-Dichloro-2-butene
Concen: 64.435 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.21 min
Lab File: VU027299.D
Acq: 29 Sep 2018 02:42

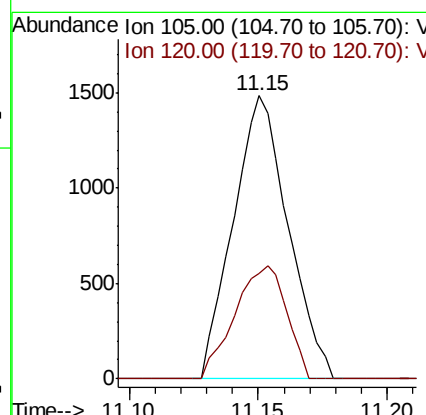
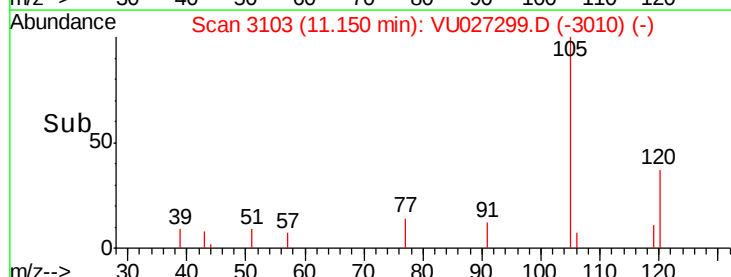
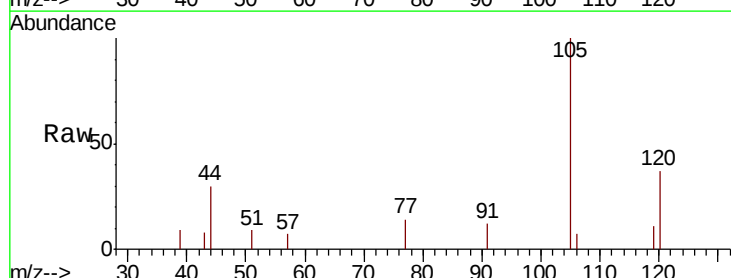
Instrument :
MSVOA_U
ClientSampleId :
EO-01-092718-A

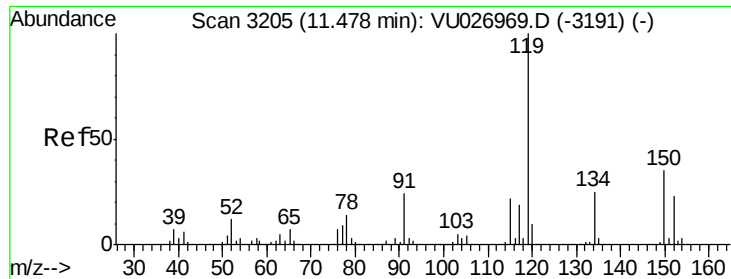
Tgt Ion: 75 Resp: 52497
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0
89 0.0 0.0 0.0



#84
1,2,4-Trimethylbenzene
Concen: 0.401 ug/l
RT: 11.15 min Scan# 3103
Delta R.T. -0.00 min
Lab File: VU027299.D
Acq: 29 Sep 2018 02:42

Tgt Ion: 105 Resp: 2197
Ion Ratio Lower Upper
105 100
120 37.8 22.4 67.2

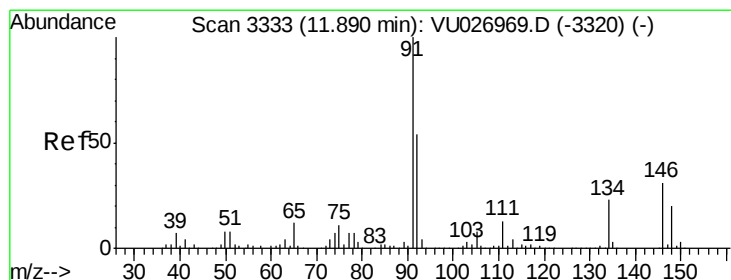
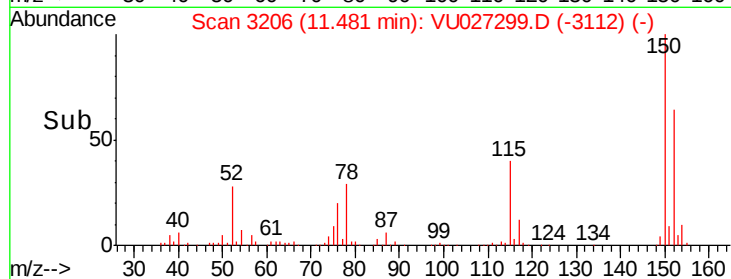
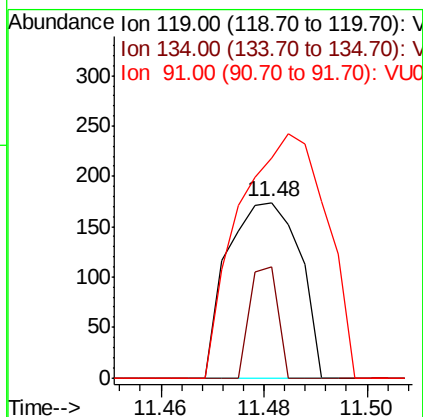
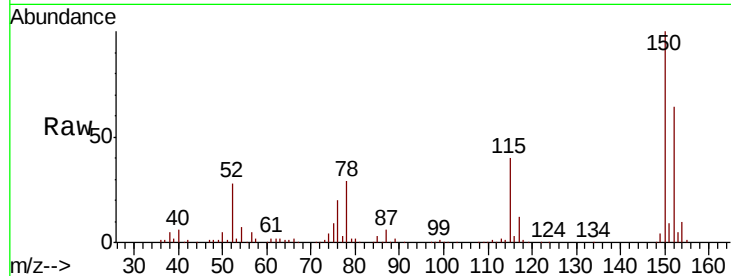




#86
p-Isopropyltoluene
Concen: 0.955 ug/l
RT: 11.48 min Scan# 3206
Delta R.T. 0.00 min
Lab File: VU027299.D
Acq: 29 Sep 2018 02:42

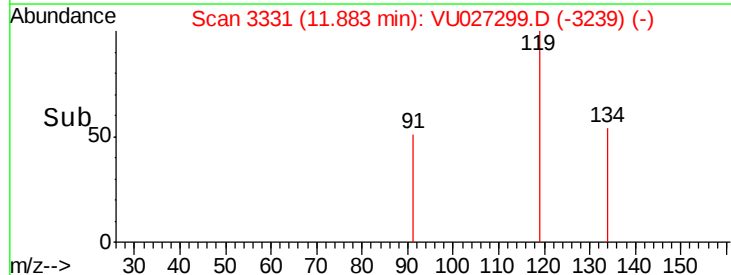
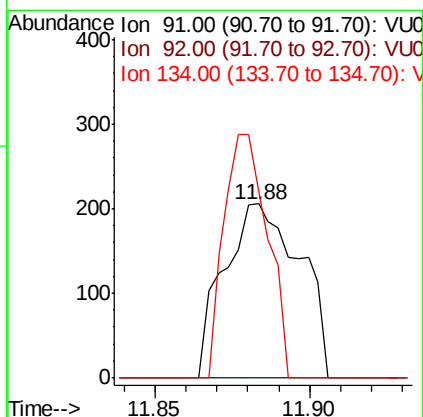
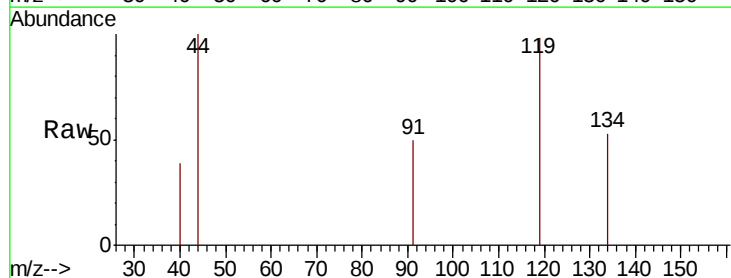
Instrument :
MSVOA_U
ClientSampleId :
EO-01-092718-A

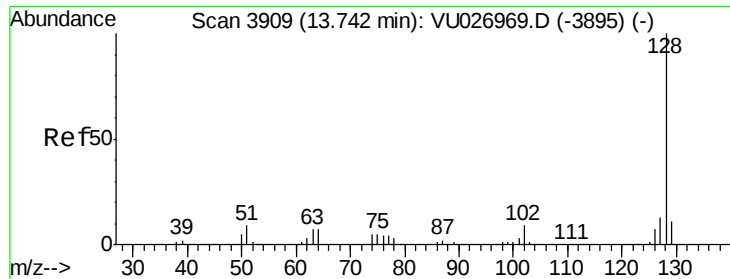
Tgt Ion: 119 Resp: 168
Ion Ratio Lower Upper
119 100
134 24.4 12.8 38.3
91 168.5 12.3 36.8#



#89
n-Butylbenzene
Concen: 2.449 ug/l
RT: 11.88 min Scan# 3331
Delta R.T. -0.01 min
Lab File: VU027299.D
Acq: 29 Sep 2018 02:42

Tgt Ion: 91 Resp: 351
Ion Ratio Lower Upper
91 100
92 0.0 27.1 81.2#
134 80.3 11.7 35.0#





#95
Naphthalene
Concen: 5.130 ug/l
RT: 13.75 min Scan# 3910
Delta R.T. 0.00 min
Lab File: VU027299.D
Acq: 29 Sep 2018 02:42

Instrument :
MSVOA_U
ClientSampleId :
EO-01-092718-A

Tgt Ion:128 Resp: 25303
Ion Ratio Lower Upper
128 100
127 12.8 10.6 15.8
129 9.8 8.6 12.8

