

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU073018\
 Data File : VU025725.D
 Acq On : 30 Jul 2018 16:14
 Operator : MD/SY
 Sample : J4177-03
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 SITE1-IDW-DRUM2-072518

Quant Time: Jul 31 03:37:51 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U072718W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 28 02:19:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	175577	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	286115	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	276324	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	169099	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	138523	50.64	ug/l	0.00
Spiked Amount			Recovery	=	101.28%	
35) Dibromofluoromethane	4.89	113	116313	46.74	ug/l	0.00
Spiked Amount			Recovery	=	93.48%	
50) Toluene-d8	7.57	98	405114	46.52	ug/l	0.00
Spiked Amount			Recovery	=	93.04%	
62) 4-Bromofluorobenzene	10.31	95	158863	47.00	ug/l	0.00
Spiked Amount			Recovery	=	94.00%	

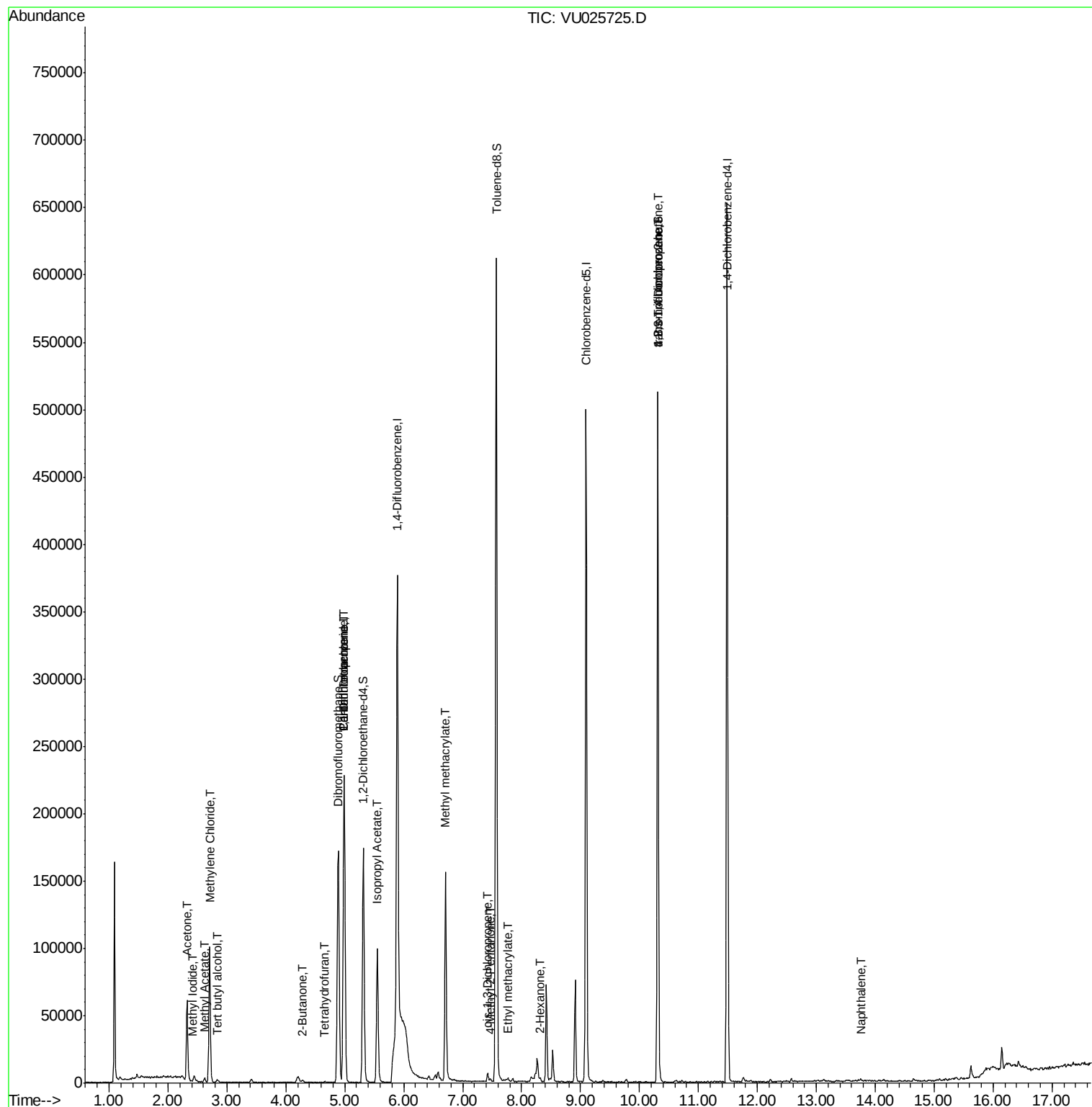
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	2.41	142	20	8.60	ug/l #	39
11) Tert butyl alcohol	2.83	59	1709	2.85	ug/l #	85
13) Acrolein	2.20	56	75	Below Cal	#	14
16) Acetone	2.32	43	63207	47.39	ug/l	97
18) Methyl Acetate	2.62	43	4409	1.37	ug/l	91
20) Methylene Chloride	2.71	84	44152	18.68	ug/l	97
25) 2-Butanone	4.27	43	2073	1.14	ug/l	99
29) Tetrahydrofuran	4.65	42	642	0.59	ug/l #	40
31) Cyclohexane	4.99	56	3446	Below Cal	#	26
36) 1,1-Dichloropropene	4.99	75	12454	3.72	ug/l #	48
38) Carbon Tetrachloride	4.99	117	17316	4.57	ug/l #	16
43) Isopropyl Acetate	5.55	43	113872	19.88	ug/l	99
48) Methyl methacrylate	6.71	41	14420	5.14	ug/l #	44
51) 4-Methyl-2-Pentanone	7.47	43	1382	0.39	ug/l	90
54) cis-1,3-Dichloropropene	7.42	75	1103	0.27	ug/l #	55
56) Ethyl methacrylate	7.77	69	2006	0.56	ug/l #	78
59) 2-Hexanone	8.32	43	1298	0.46	ug/l #	26
76) 1,2,3-Trichloropropane	10.31	75	83455	22.86	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	83455	61.96	ug/l #	100
95) Naphthalene	13.75	128	1746	1.39	ug/l #	69

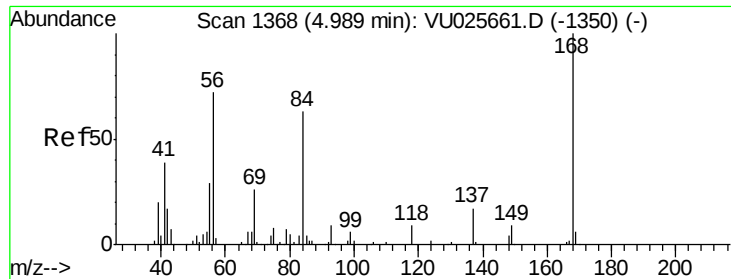
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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SITE1-IDW-DRUM2-072518

Quant Time: Jul 31 03:37:51 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U072718W.M
Quant Title : SW846 8260
QLast Update : Sat Jul 28 02:19:50 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.00 min

Lab File: VU025725.D

Acq: 30 Jul 2018 16:14

Instrument :

MSVOA_U

ClientSampleId :

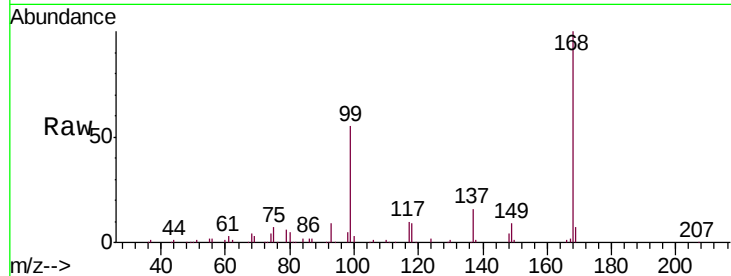
SITE1-IDW-DRUM2-072518

Tot Ion:168 Resp: 175577

Ion Ratio Lower Upper

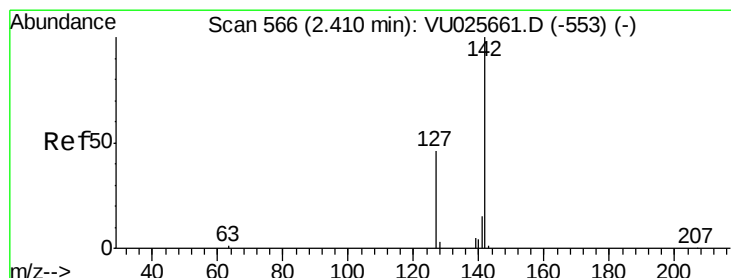
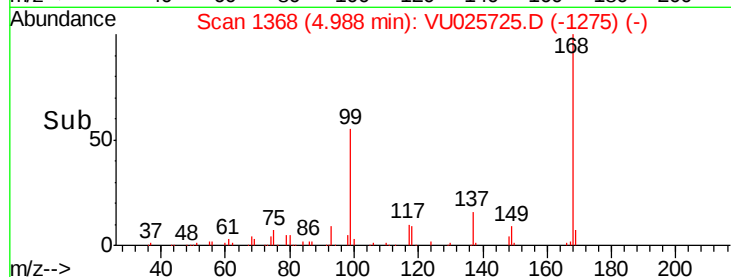
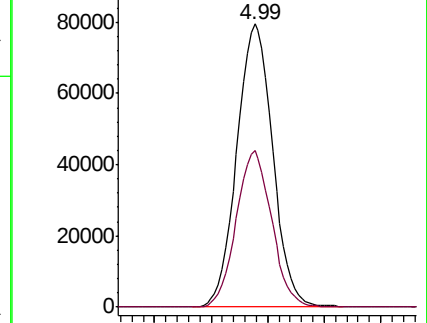
168 100

99 55.1 42.8 64.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VU0



#10

Methyl Iodide

Concen: 8.60 ug/l

RT: 2.41 min Scan# 566

Delta R.T. 0.00 min

Lab File: VU025725.D

Acq: 30 Jul 2018 16:14

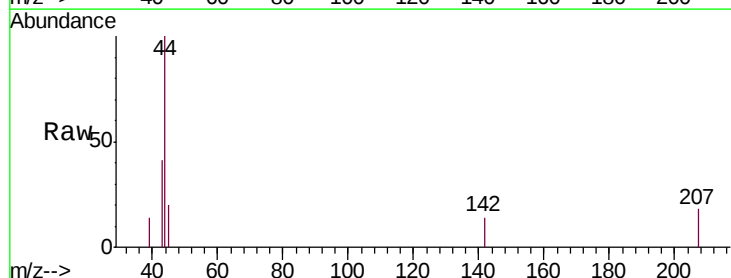
Tgt Ion:142 Resp: 20

Ion Ratio Lower Upper

142 100

127 0.0 36.5 54.7#

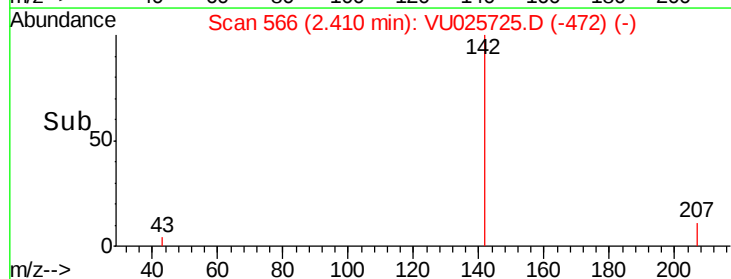
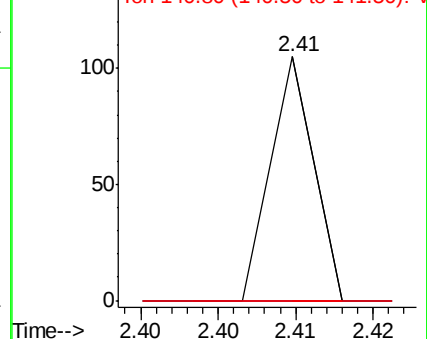
141 0.0 11.4 17.2#

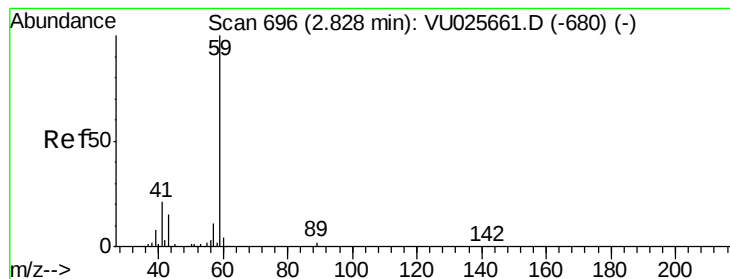


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



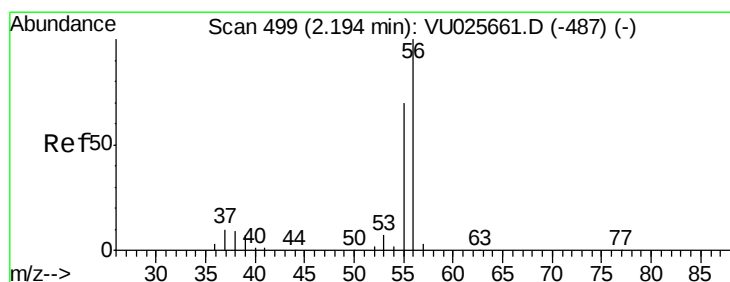
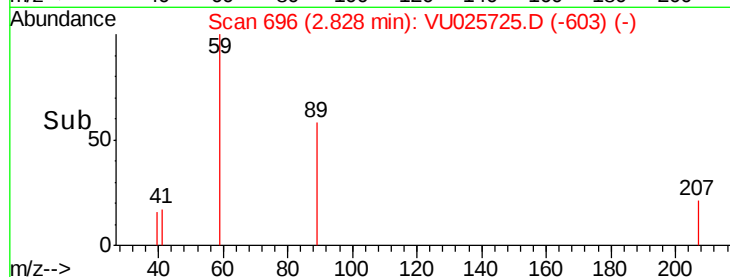
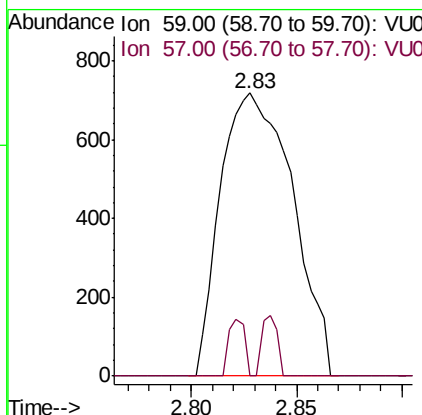
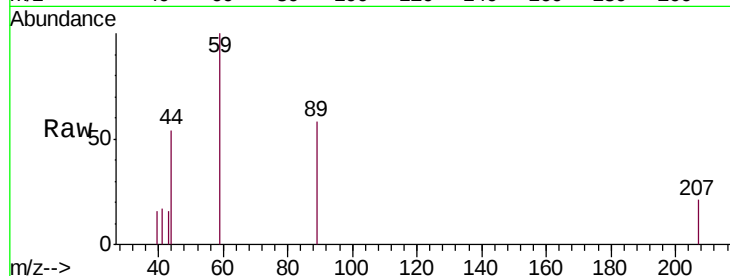


#11

Tert butyl alcohol
 Concen: 2.85 ug/l
 RT: 2.83 min Scan# 696
 Delta R.T. -0.00 min
 Lab File: VU025725.D
 Acq: 30 Jul 2018 16:14

Instrument :
 MSVOA_U
 ClientSampleId :
 SITE1-IDW-DRUM2-072518

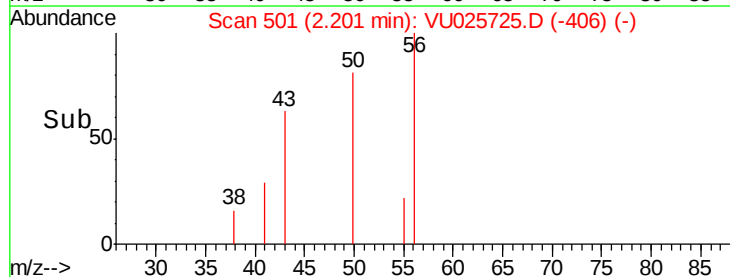
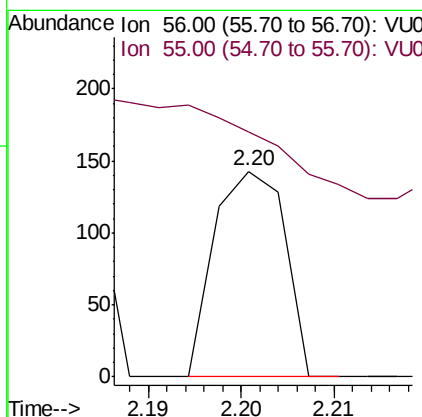
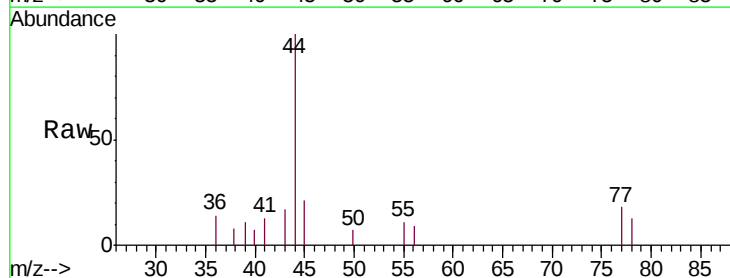
Tot Ion: 59 Resp: 1709
 Ion Ratio Lower Upper
 59 100
 57 4.4 8.2 12.2#

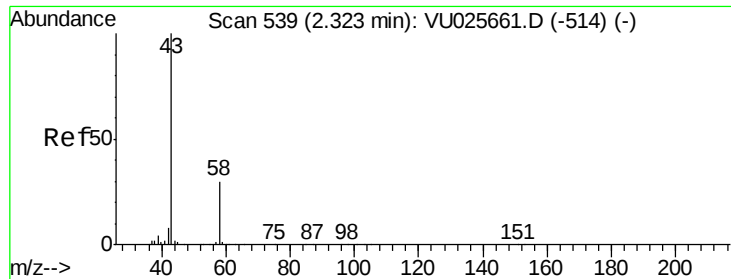


#13

Acrolein
 Concen: Below Cal
 RT: 2.20 min Scan# 501
 Delta R.T. 0.01 min
 Lab File: VU025725.D
 Acq: 30 Jul 2018 16:14

Tgt Ion: 56 Resp: 75
 Ion Ratio Lower Upper
 56 100
 55 0.0 57.2 85.8#





#16

Acetone

Concen: 47.39 ug/l

RT: 2.32 min Scan# 539

Delta R.T. -0.00 min

Lab File: VU025725.D

Acq: 30 Jul 2018 16:14

Instrument :

MSVOA_U

ClientSampleId :

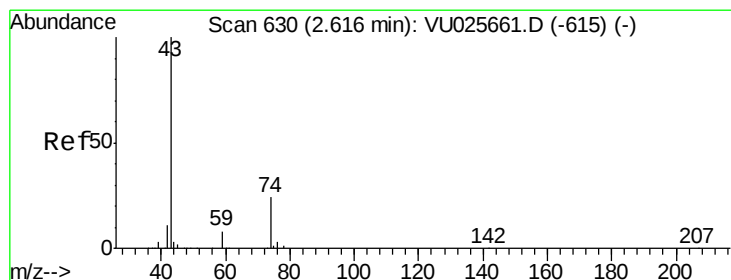
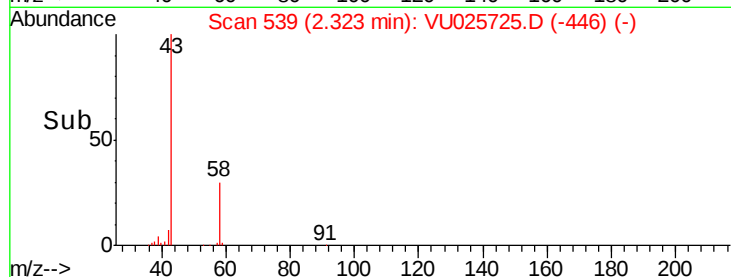
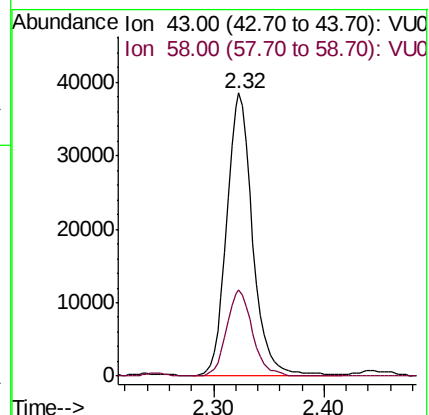
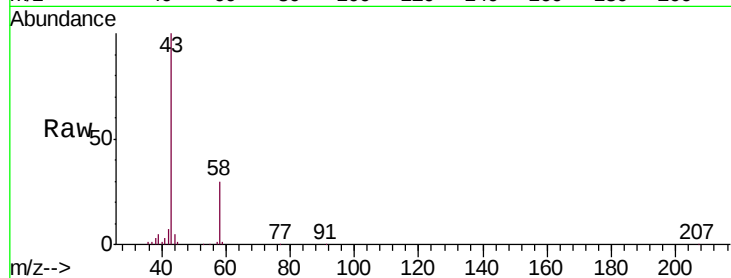
SITE1-IDW-DRUM2-072518

Tot Ion: 43 Resp: 63207

Ion Ratio Lower Upper

43 100

58 30.3 23.1 34.7



#18

Methyl Acetate

Concen: 1.37 ug/l

RT: 2.62 min Scan# 631

Delta R.T. 0.00 min

Lab File: VU025725.D

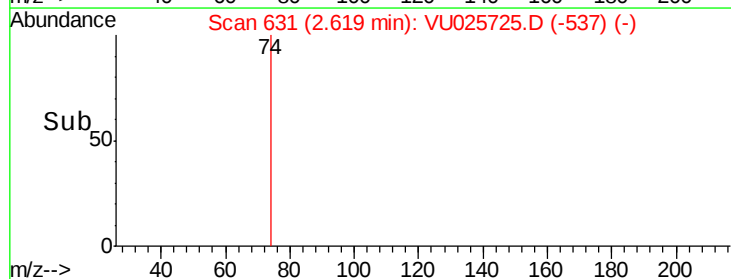
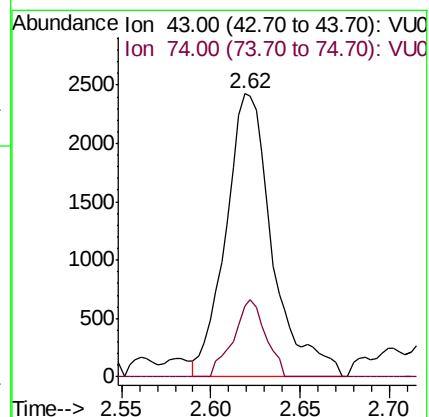
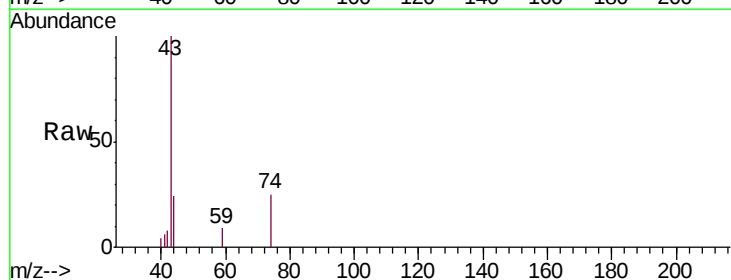
Acq: 30 Jul 2018 16:14

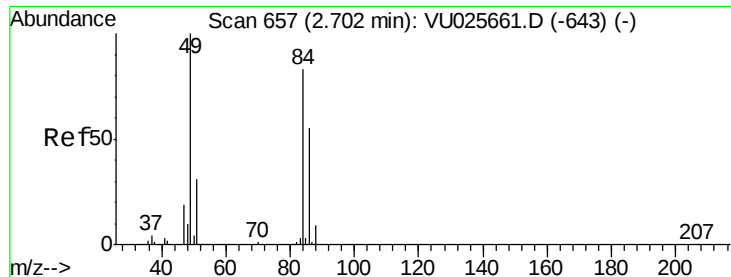
Tgt Ion: 43 Resp: 4409

Ion Ratio Lower Upper

43 100

74 18.7 18.5 27.7





#20

Methylene Chloride

Concen: 18.68 ug/l

RT: 2.71 min Scan# 658

Delta R.T. 0.00 min

Lab File: VU025725.D

Acq: 30 Jul 2018 16:14

Instrument :

MSVOA_U

ClientSampleId :

SITE1-IDW-DRUM2-072518

Tot Ion: 84 Resp: 44152

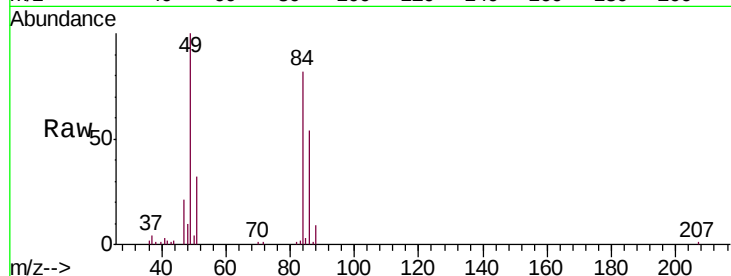
Ion Ratio Lower Upper

84 100

49 121.8 101.8 152.6

51 38.9 30.8 46.2

86 65.5 51.9 77.9

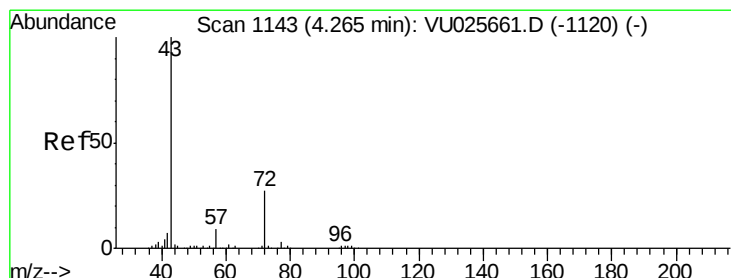
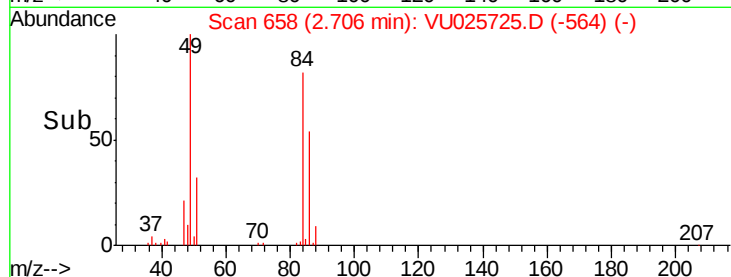
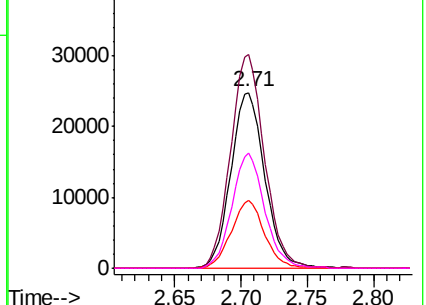


Abundance Ion 83.90 (83.60 to 84.60): VU0

Ion 48.90 (48.60 to 49.60): VU0

Ion 50.90 (50.60 to 51.60): VU0

Ion 85.90 (85.60 to 86.60): VU0



#25

2-Butanone

Concen: 1.14 ug/l

RT: 4.27 min Scan# 1146

Delta R.T. 0.01 min

Lab File: VU025725.D

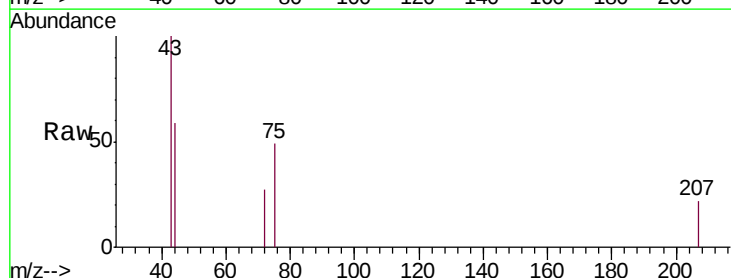
Acq: 30 Jul 2018 16:14

Tgt Ion: 43 Resp: 2073

Ion Ratio Lower Upper

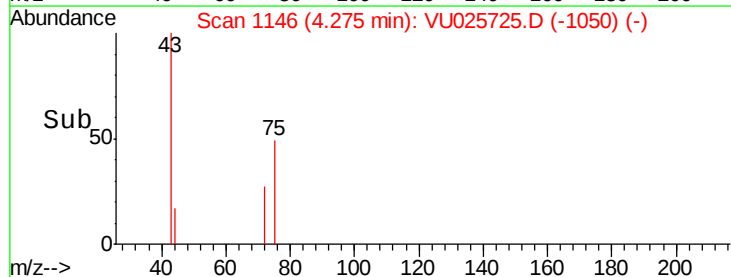
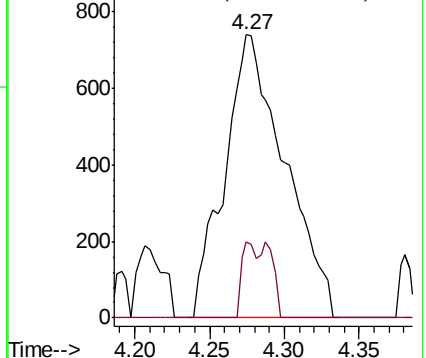
43 100

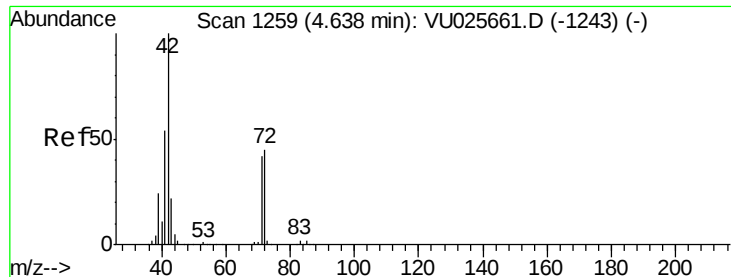
72 26.8 21.0 31.4



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0





#29

Tetrahydrofuran

Concen: 0.59 ug/l

RT: 4.65 min Scan# 1264

Delta R.T. 0.02 min

Lab File: VU025725.D

Acq: 30 Jul 2018 16:14

Instrument :

MSVOA_U

ClientSampleId :

SITE1-IDW-DRUM2-072518

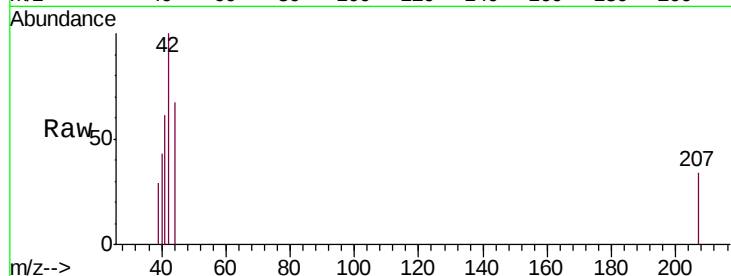
Tot Ion: 42 Resp: 642

Ion Ratio Lower Upper

42 100

72 6.9 36.7 55.1#

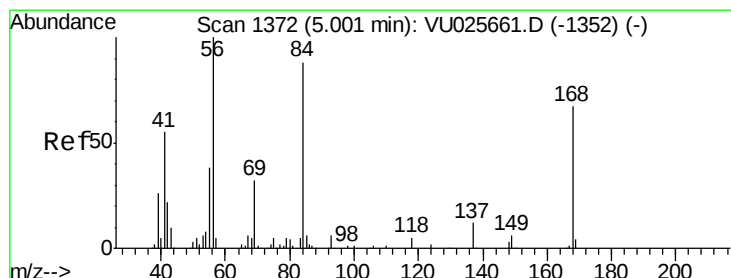
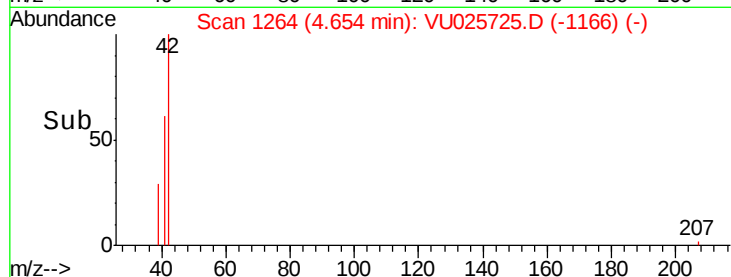
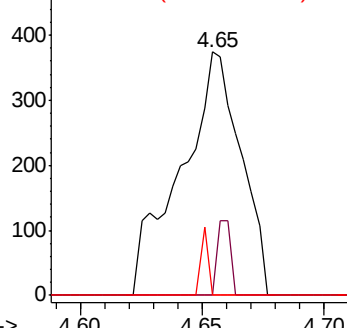
71 3.1 33.9 50.9#



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: Below Cal

RT: 4.99 min Scan# 1368

Delta R.T. -0.01 min

Lab File: VU025725.D

Acq: 30 Jul 2018 16:14

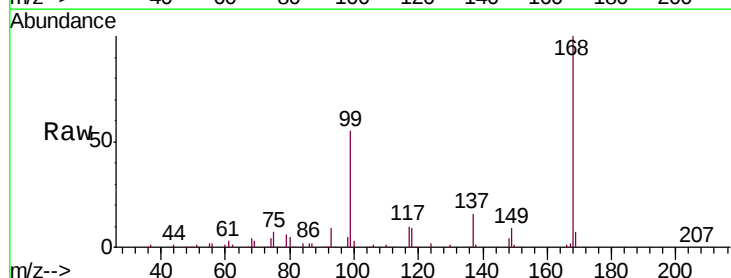
Tgt Ion: 56 Resp: 3446

Ion Ratio Lower Upper

56 100

69 151.8 26.8 40.2#

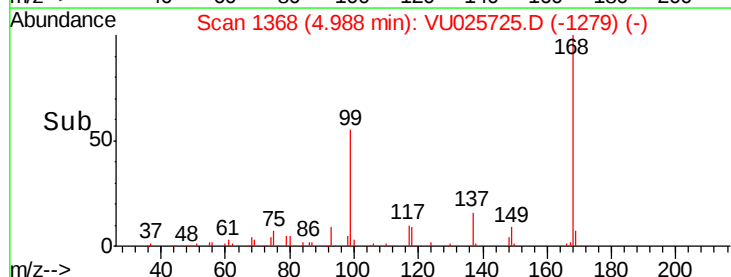
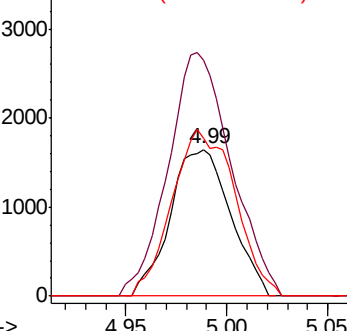
84 107.6 69.7 104.5#

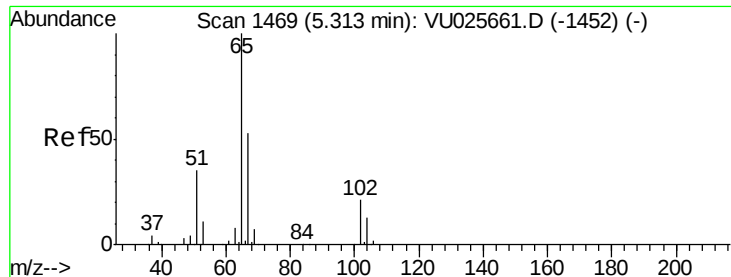


Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0

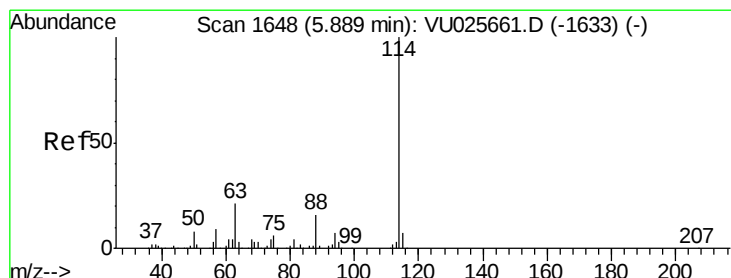
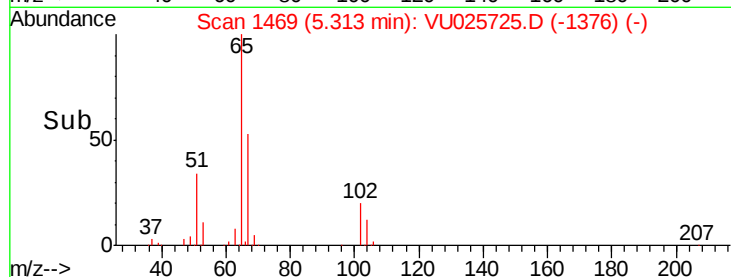
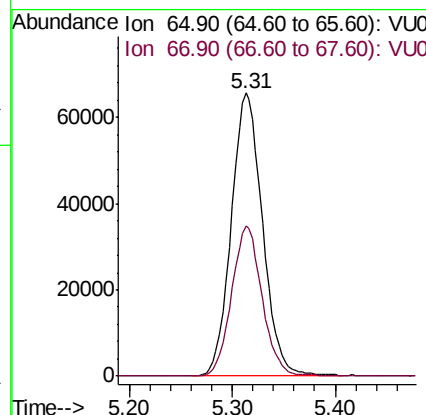
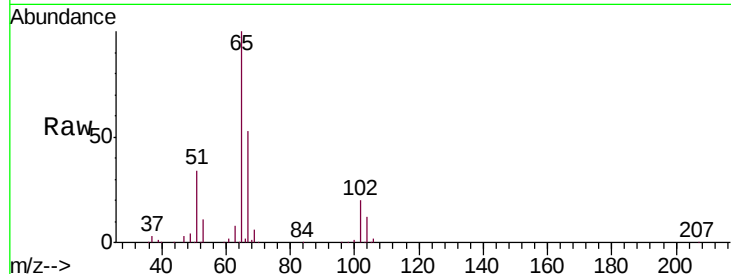




#33
 1,2-Dichloroethane-d4
 Concen: 50.64 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. -0.00 min
 Lab File: VU025725.D
 Acq: 30 Jul 2018 16:14

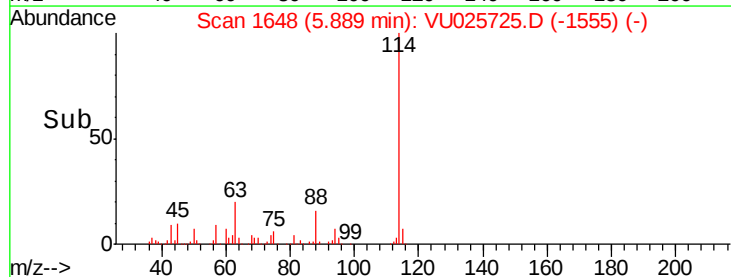
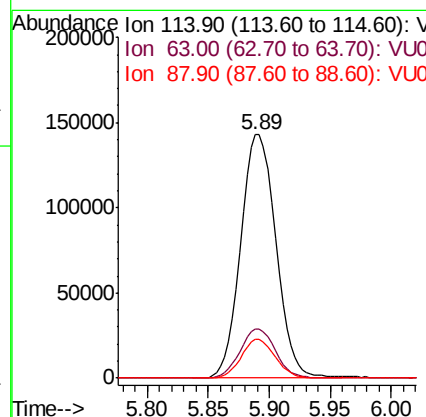
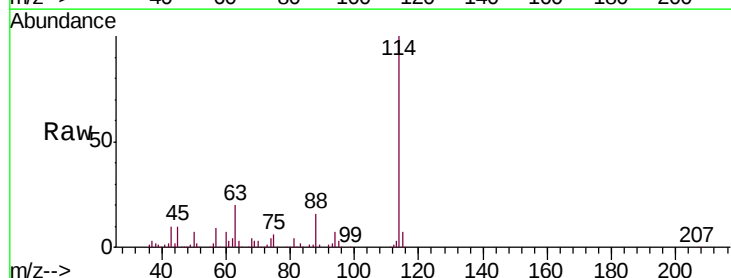
Instrument :
 MSVOA_U
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 SITE1-IDW-DRUM2-072518

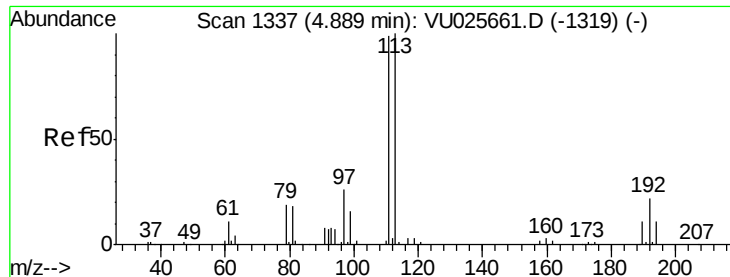
Tot Ion: 65 Resp: 138523
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 103.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.89 min Scan# 1648
 Delta R.T. -0.00 min
 Lab File: VU025725.D
 Acq: 30 Jul 2018 16:14

Tgt Ion: 114 Resp: 286115
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 41.6
 88 15.8 0.0 32.4

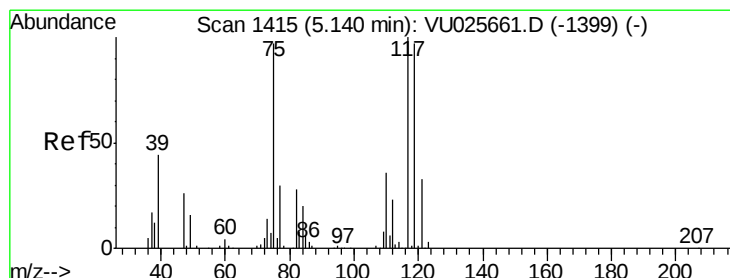
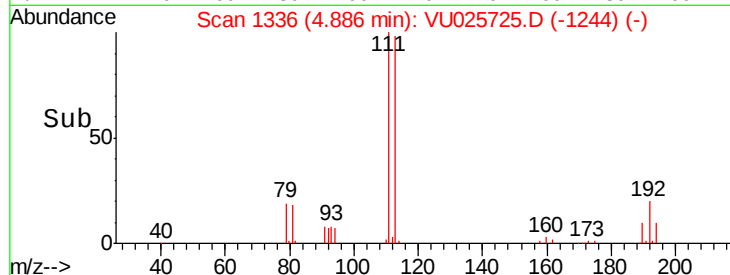
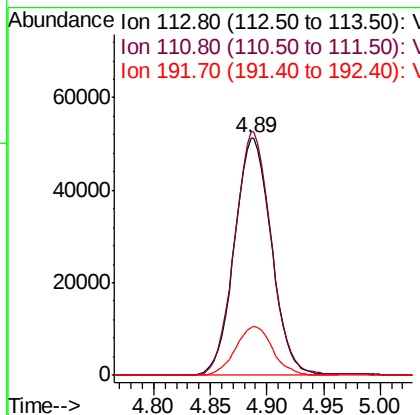
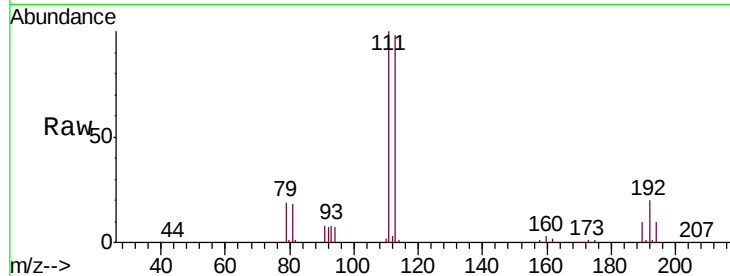




#35
Dibromofluoromethane
Concen: 46.74 ug/l
RT: 4.89 min Scan# 1336
Delta R.T. -0.00 min
Lab File: VU025725.D
Acq: 30 Jul 2018 16:14

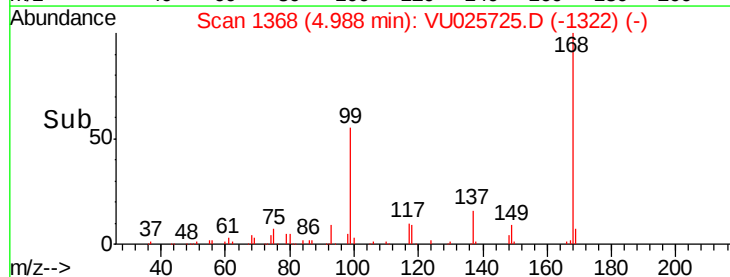
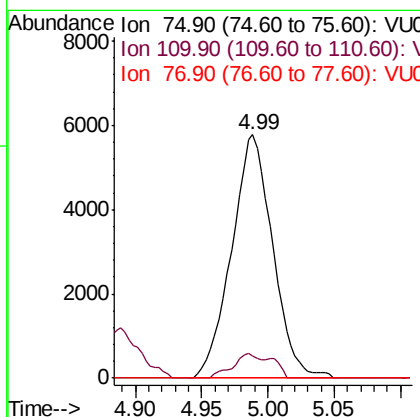
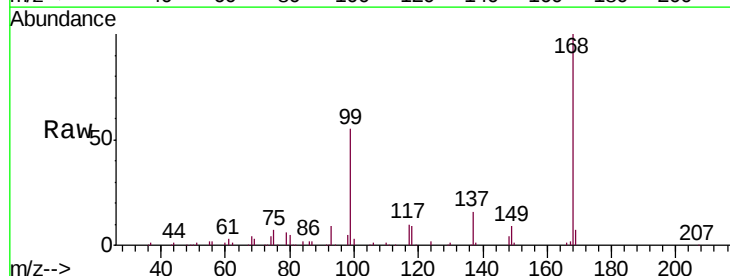
Instrument :
MSVOA_U
ClientSampleId :
SITE1-IDW-DRUM2-072518

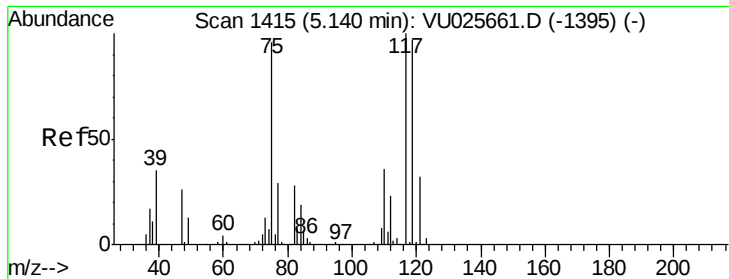
Tot Ion:113 Resp: 116313
Ion Ratio Lower Upper
113 100
111 102.0 81.7 122.5
192 20.9 17.1 25.7



#36
1,1-Dichloropropene
Concen: 3.72 ug/l
RT: 4.99 min Scan# 1368
Delta R.T. -0.15 min
Lab File: VU025725.D
Acq: 30 Jul 2018 16:14

Tgt Ion: 75 Resp: 12454
Ion Ratio Lower Upper
75 100
110 7.2 17.6 52.9#
77 0.0 24.4 36.6#





#38

Carbon Tetrachloride

Concen: 4.57 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU025725.D

Acq: 30 Jul 2018 16:14

Instrument :

MSVOA_U

ClientSampleId :

SITE1-IDW-DRUM2-072518

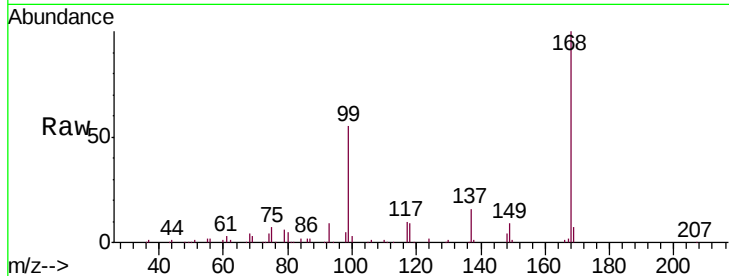
Tot Ion:117 Resp: 17316

Ion Ratio Lower Upper

117 100

119 4.7 75.7 113.5#

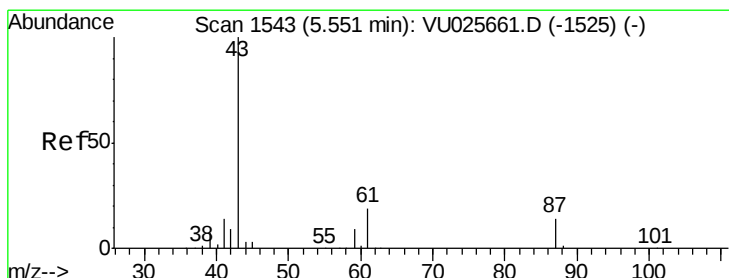
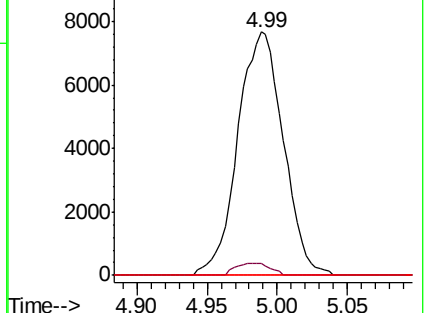
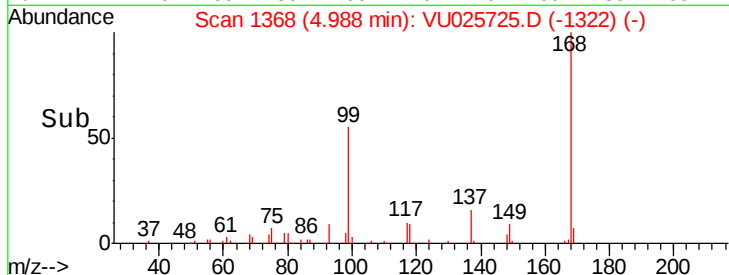
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 19.88 ug/l

RT: 5.55 min Scan# 1543

Delta R.T. -0.00 min

Lab File: VU025725.D

Acq: 30 Jul 2018 16:14

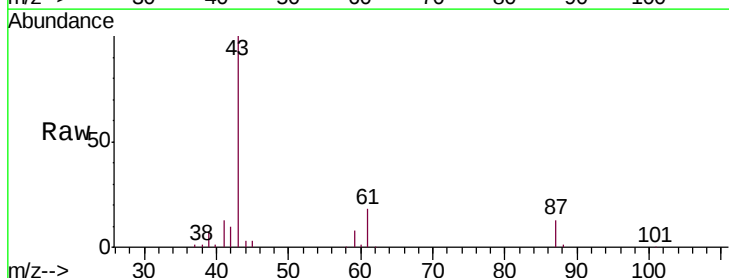
Tgt Ion: 43 Resp: 113872

Ion Ratio Lower Upper

43 100

61 19.0 15.5 23.3

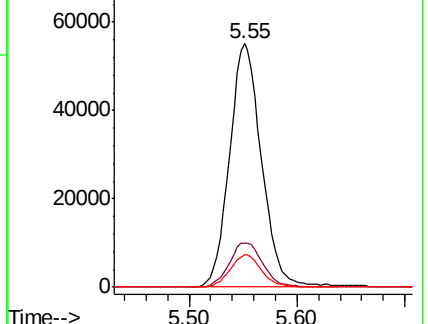
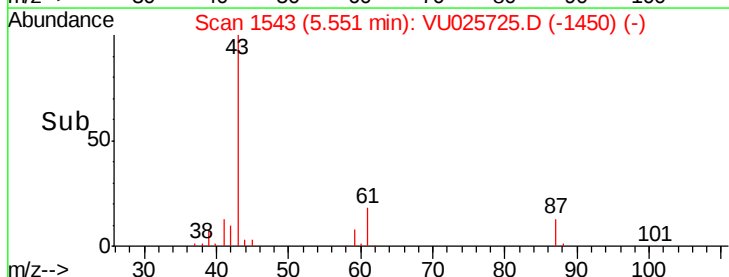
87 13.1 10.6 16.0

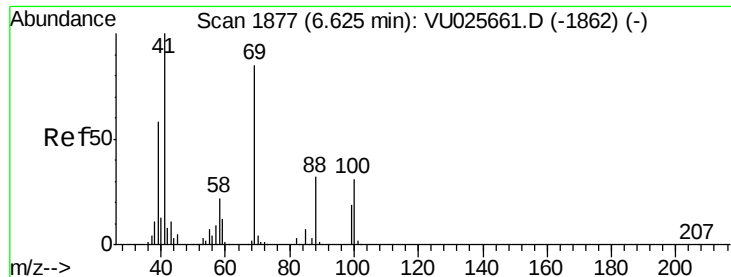


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

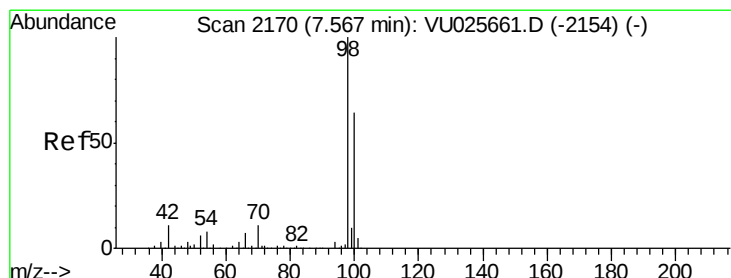
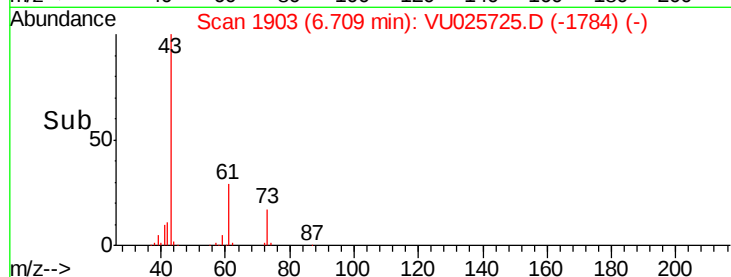
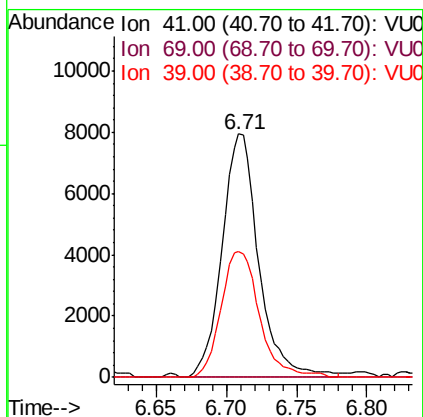
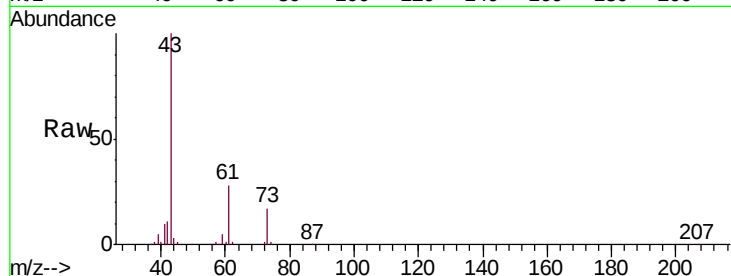




#48
Methvl methacrylate
Concen: 5.14 ug/l
RT: 6.71 min Scan# 1903
Delta R.T. 0.08 min
Lab File: VU025725.D
Acq: 30 Jul 2018 16:14

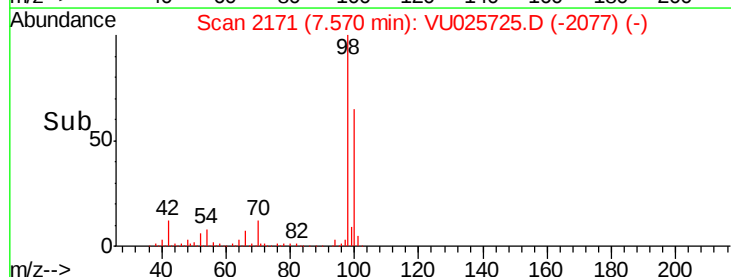
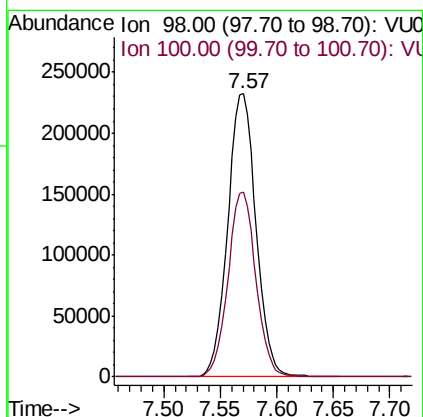
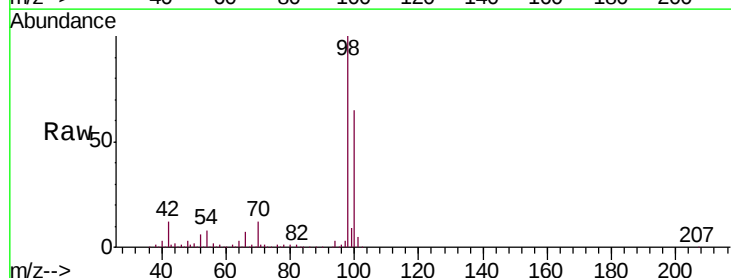
Instrument :
MSVOA_U
ClientSampleId :
SITE1-IDW-DRUM2-072518

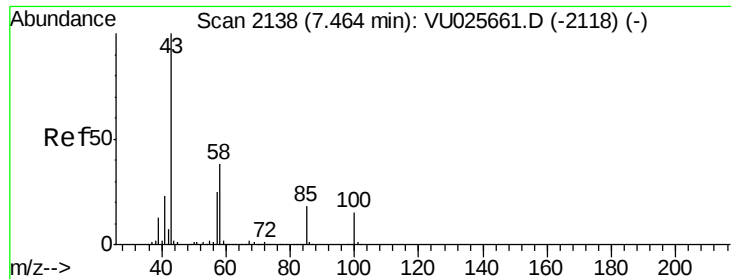
Tot Ion: 41 Resp: 14420
Ion Ratio Lower Upper
41 100
69 0.0 65.0 97.4#
39 53.9 46.4 69.6



#50
Toluene-d8
Concen: 46.52 ug/l
RT: 7.57 min Scan# 2171
Delta R.T. 0.00 min
Lab File: VU025725.D
Acq: 30 Jul 2018 16:14

Tgt Ion: 98 Resp: 405114
Ion Ratio Lower Upper
98 100
100 64.3 51.1 76.7





#51

4-Methyl-2-Pentanone

Concen: 0.39 ug/l

RT: 7.47 min Scan# 2139

Delta R.T. 0.00 min

Lab File: VU025725.D

Acq: 30 Jul 2018 16:14

Instrument :

MSVOA_U

ClientSampleId :

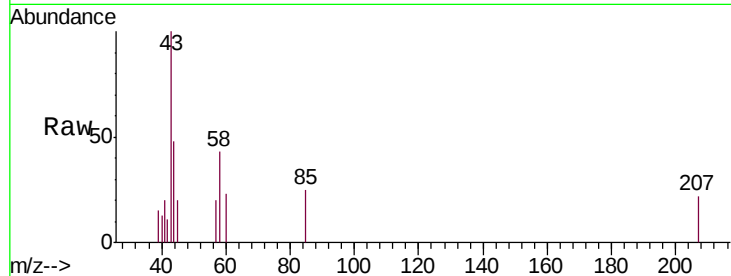
SITE1-IDW-DRUM2-072518

Tot Ion: 43 Resp: 1382

Ion Ratio Lower Upper

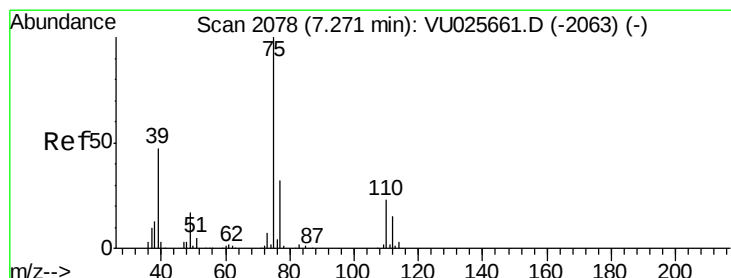
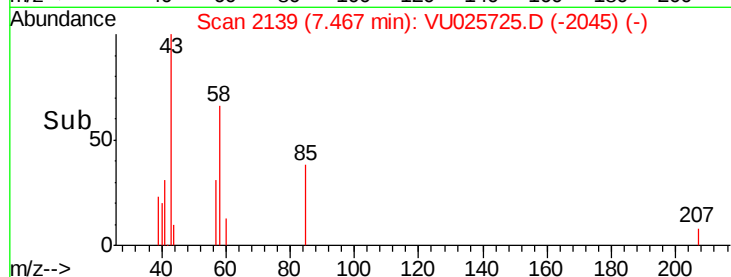
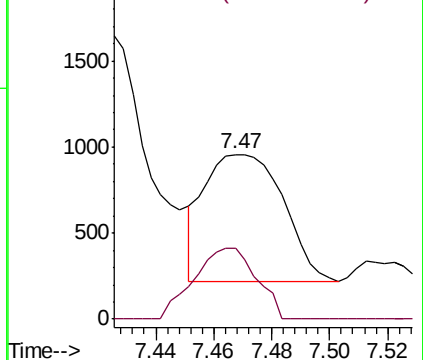
43 100

58 44.8 31.0 46.4



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#54

cis-1,3-Dichloropropene

Concen: 0.27 ug/l

RT: 7.42 min Scan# 2125

Delta R.T. 0.15 min

Lab File: VU025725.D

Acq: 30 Jul 2018 16:14

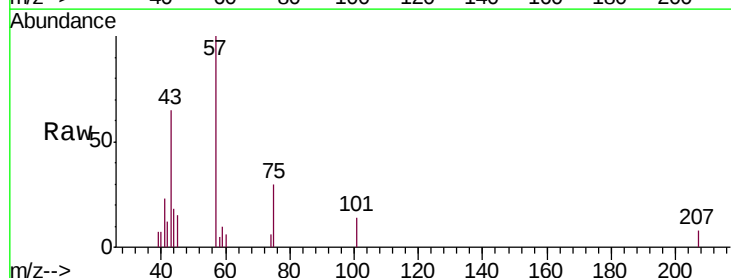
Tgt Ion: 75 Resp: 1103

Ion Ratio Lower Upper

75 100

77 0.0 25.6 38.4#

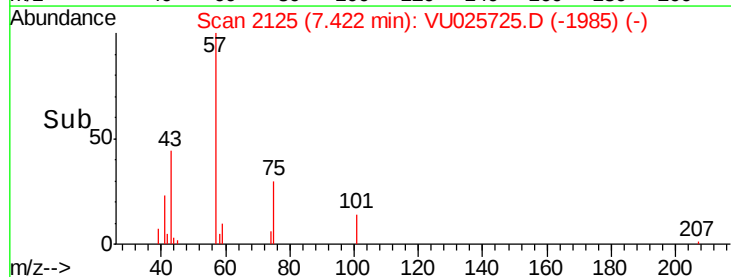
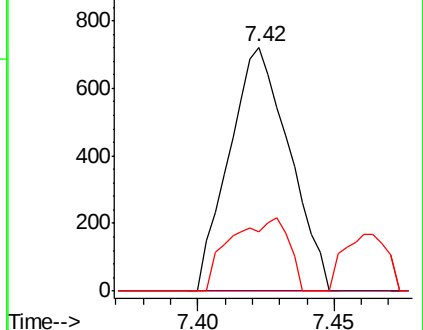
39 24.4 40.0 60.0#

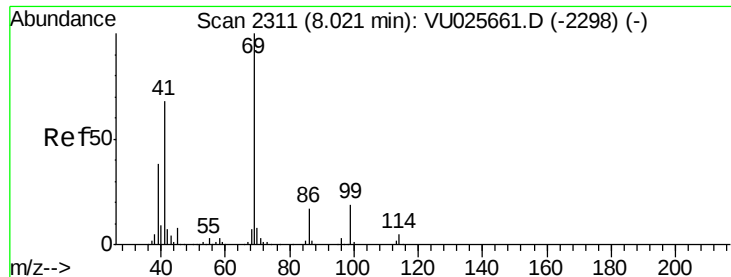


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

Ion 39.00 (38.70 to 39.70): VU0

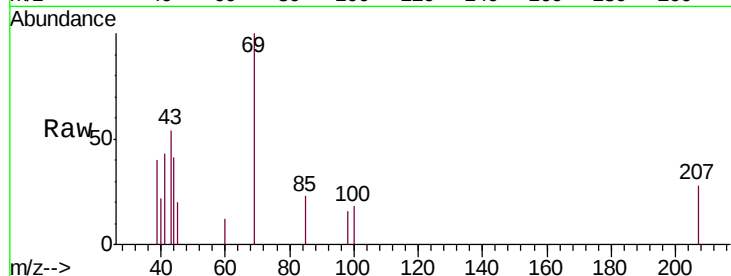




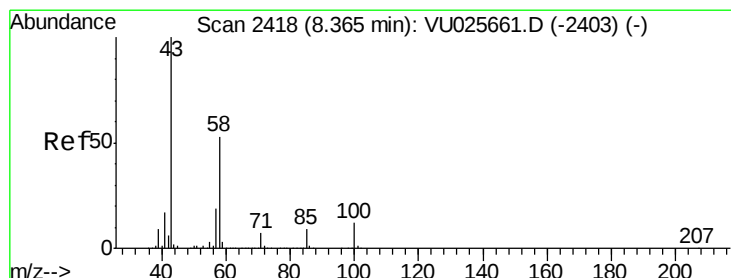
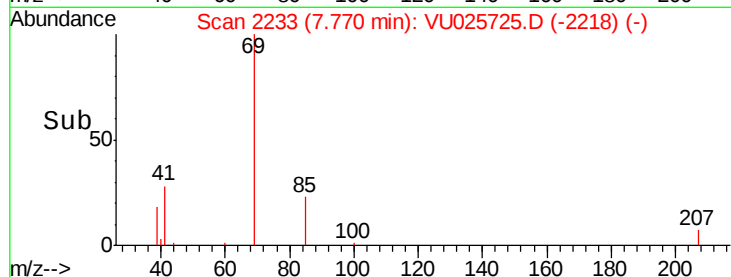
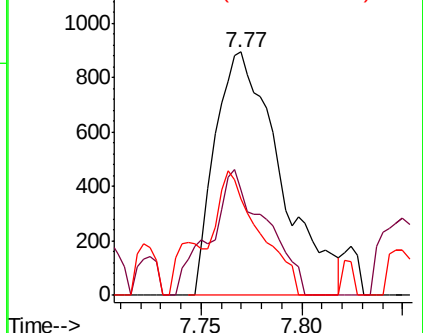
#56
Ethyl methacrylate
Concen: 0.56 ug/l
RT: 7.77 min Scan# 2233
Delta R.T. -0.25 min
Lab File: VU025725.D
Acq: 30 Jul 2018 16:14

Instrument :
MSVOA_U
ClientSampleId :
SITE1-IDW-DRUM2-072518

Tot Ion: 69 Resp: 2006
Ion Ratio Lower Upper
69 100
41 44.6 54.8 82.2#
39 33.0 31.1 46.7

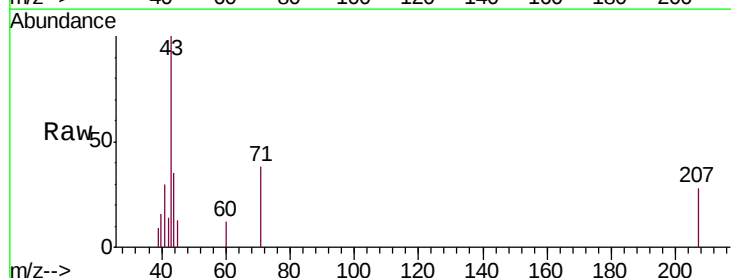


Abundance Ion 69.00 (68.70 to 69.70): VU0
Ion 41.00 (40.70 to 41.70): VU0
Ion 39.00 (38.70 to 39.70): VU0

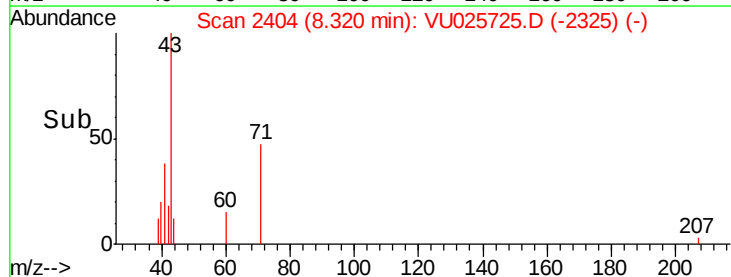
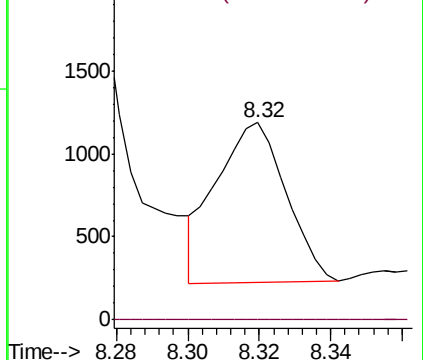


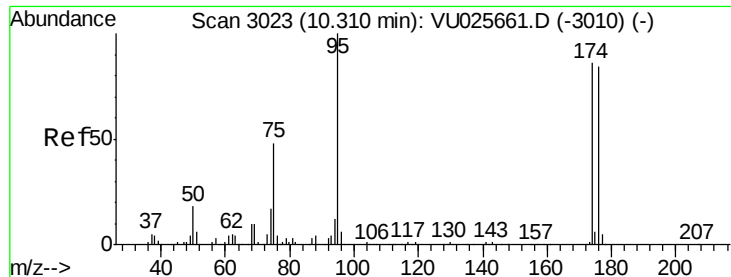
#59
2-Hexanone
Concen: 0.46 ug/l
RT: 8.32 min Scan# 2404
Delta R.T. -0.05 min
Lab File: VU025725.D
Acq: 30 Jul 2018 16:14

Tgt Ion: 43 Resp: 1298
Ion Ratio Lower Upper
43 100
58 0.0 26.2 78.5#



Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0





#62

4-Bromofluorobenzene

Concen: 47.00 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.00 min

Lab File: VU025725.D

Acq: 30 Jul 2018 16:14

Instrument :

MSVOA_U

ClientSampleId :

SITE1-IDW-DRUM2-072518

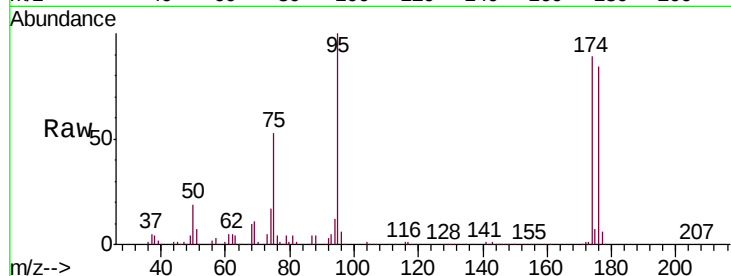
Tot Ion: 95 Resp: 158863

Ion Ratio Lower Upper

95 100

174 89.2 0.0 172.2

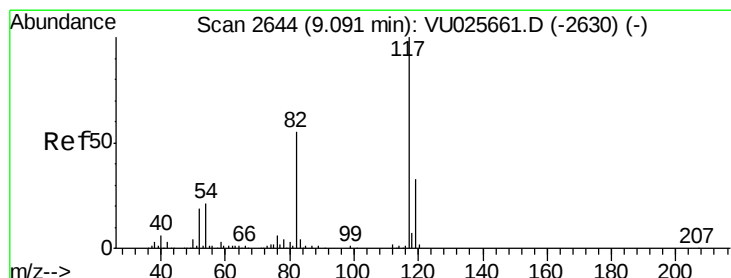
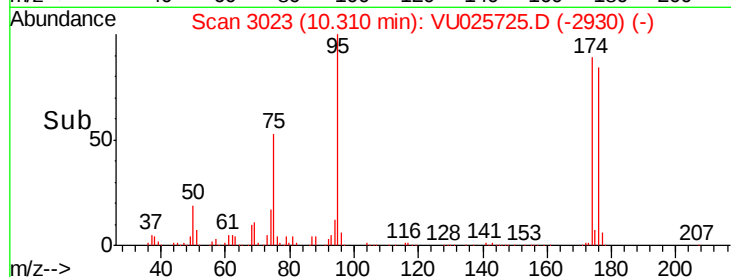
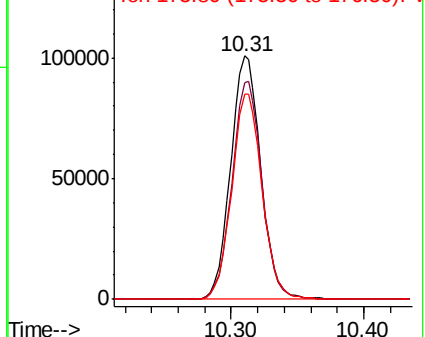
176 85.1 0.0 162.6



Abundance Ion 94.90 (94.60 to 95.60): VU025661.D (-3010) (-)

Ion 173.80 (173.50 to 174.50): VU025661.D (-3010) (-)

Ion 175.80 (175.50 to 176.50): VU025661.D (-3010) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VU025725.D

Acq: 30 Jul 2018 16:14

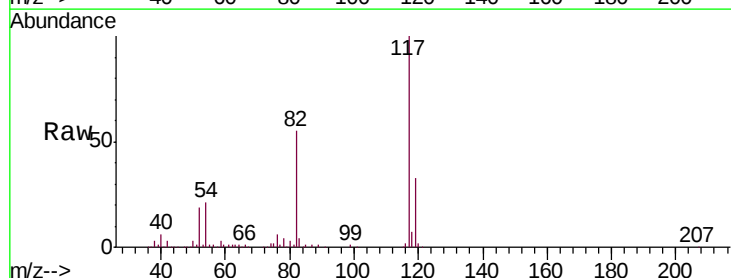
Tgt Ion: 117 Resp: 276324

Ion Ratio Lower Upper

117 100

82 55.4 46.0 69.0

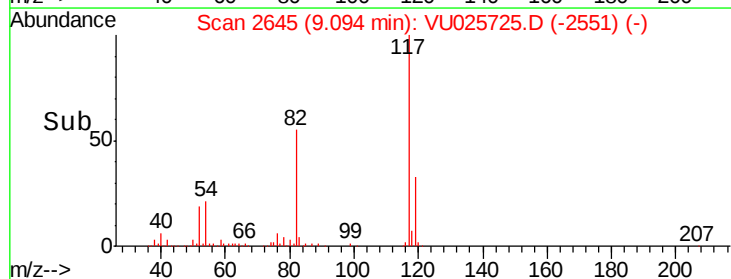
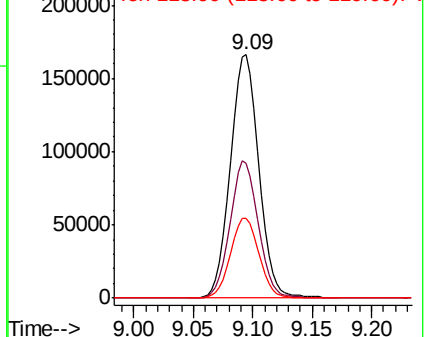
119 32.9 26.0 39.0

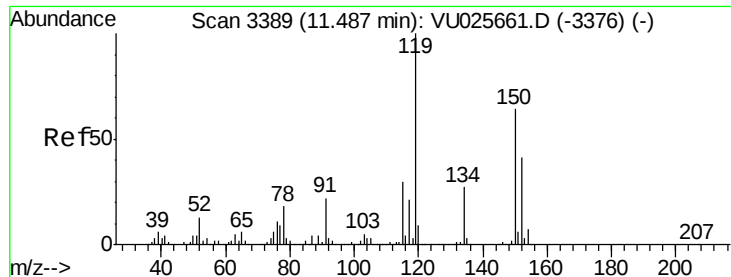


Abundance Ion 116.90 (116.60 to 117.60): VU025661.D (-2630) (-)

Ion 82.00 (81.70 to 82.70): VU025661.D (-2630) (-)

Ion 118.90 (118.60 to 119.60): VU025661.D (-2630) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VU025725.D

Acq: 30 Jul 2018 16:14

Instrument :

MSVOA_U

ClientSampleId :

SITE1-IDW-DRUM2-072518

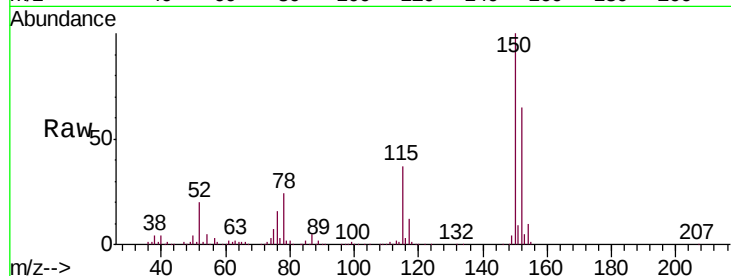
Tot Ion:152 Resp: 169099

Ion Ratio Lower Upper

152 100

115 56.7 40.1 120.3

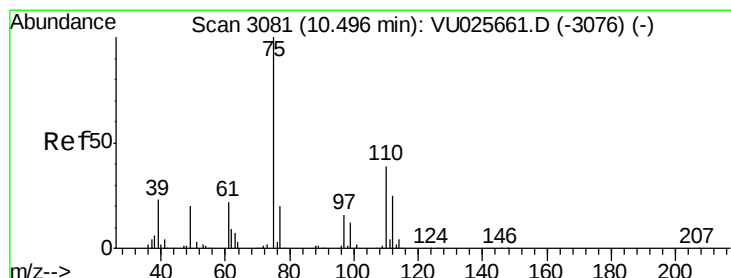
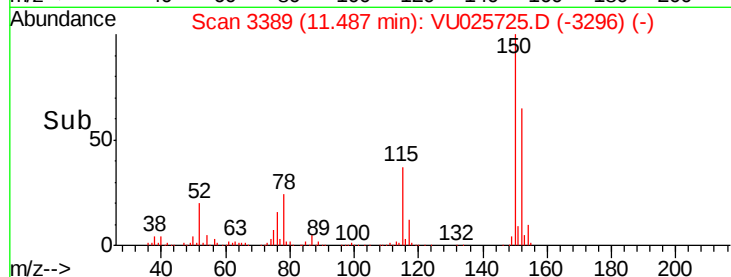
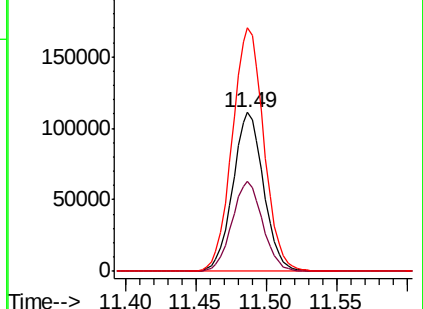
150 158.0 0.0 351.4



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: 22.86 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025725.D

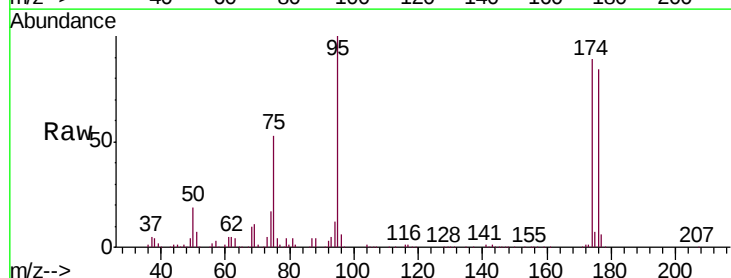
Acq: 30 Jul 2018 16:14

Tgt Ion: 75 Resp: 83455

Ion Ratio Lower Upper

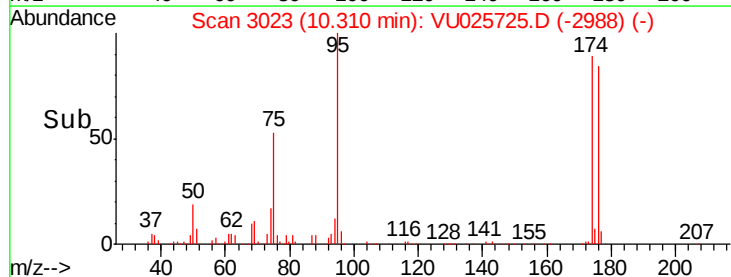
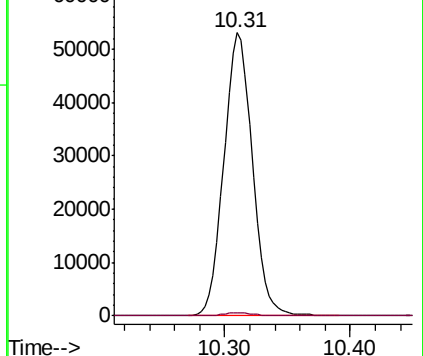
75 100

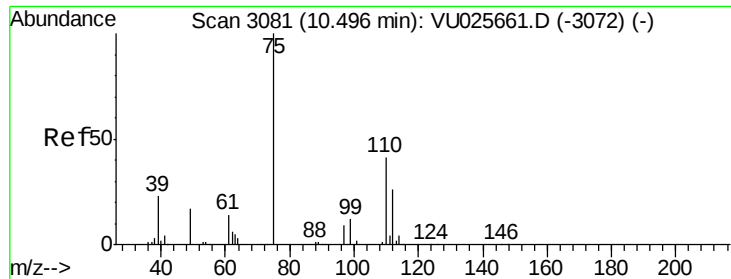
77 1.1 20.4 61.3#



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: 61.96 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025725.D

Acq: 30 Jul 2018 16:14

Instrument :

MSVOA_U

ClientSampleId :

SITE1-IDW-DRUM2-072518

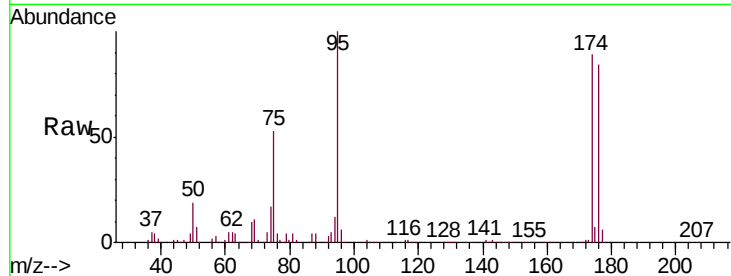
Tot Ion: 75 Resp: 83455

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

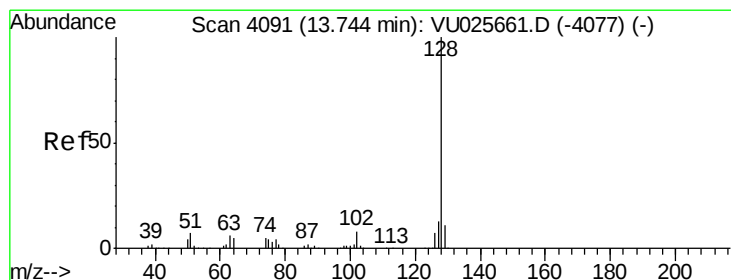
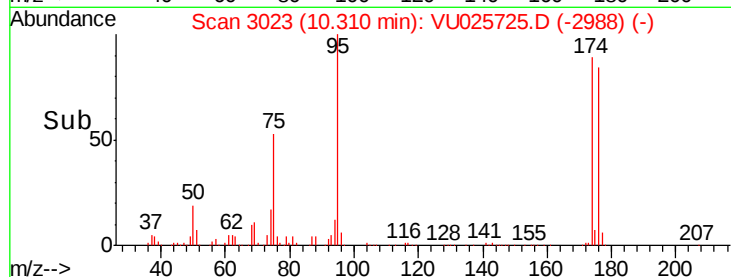
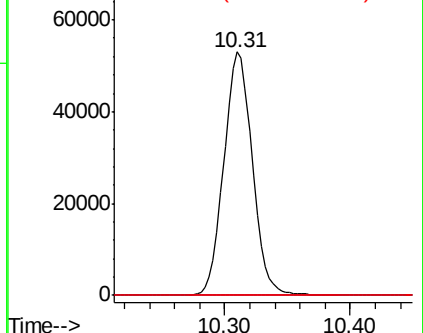
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0



#95

Naphthalene

Concen: 1.39 ug/l

RT: 13.75 min Scan# 4094

Delta R.T. 0.01 min

Lab File: VU025725.D

Acq: 30 Jul 2018 16:14

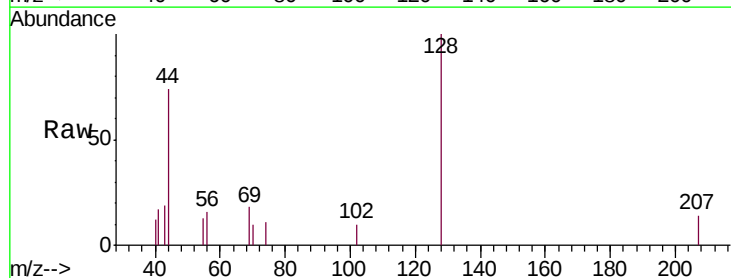
Tgt Ion: 128 Resp: 1746

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.3 12.5#



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

