

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072718\
 Data File : VU025692.D
 Acq On : 28 Jul 2018 01:05
 Operator : MD/SY
 Sample : J4153-01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 TB-01-180724

Quant Time: Jul 28 05:31:11 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U072718W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 27 13:11:52 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	179732	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	275095	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	268428	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	163605	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	136826	48.86	ug/l	0.00
Spiked Amount			Recovery	=	97.72%	
35) Dibromofluoromethane	4.89	113	115328	48.20	ug/l	0.00
Spiked Amount			Recovery	=	96.40%	
50) Toluene-d8	7.57	98	400218	47.80	ug/l	0.00
Spiked Amount			Recovery	=	95.60%	
62) 4-Bromofluorobenzene	10.31	95	155133	47.74	ug/l	0.00
Spiked Amount			Recovery	=	95.48%	

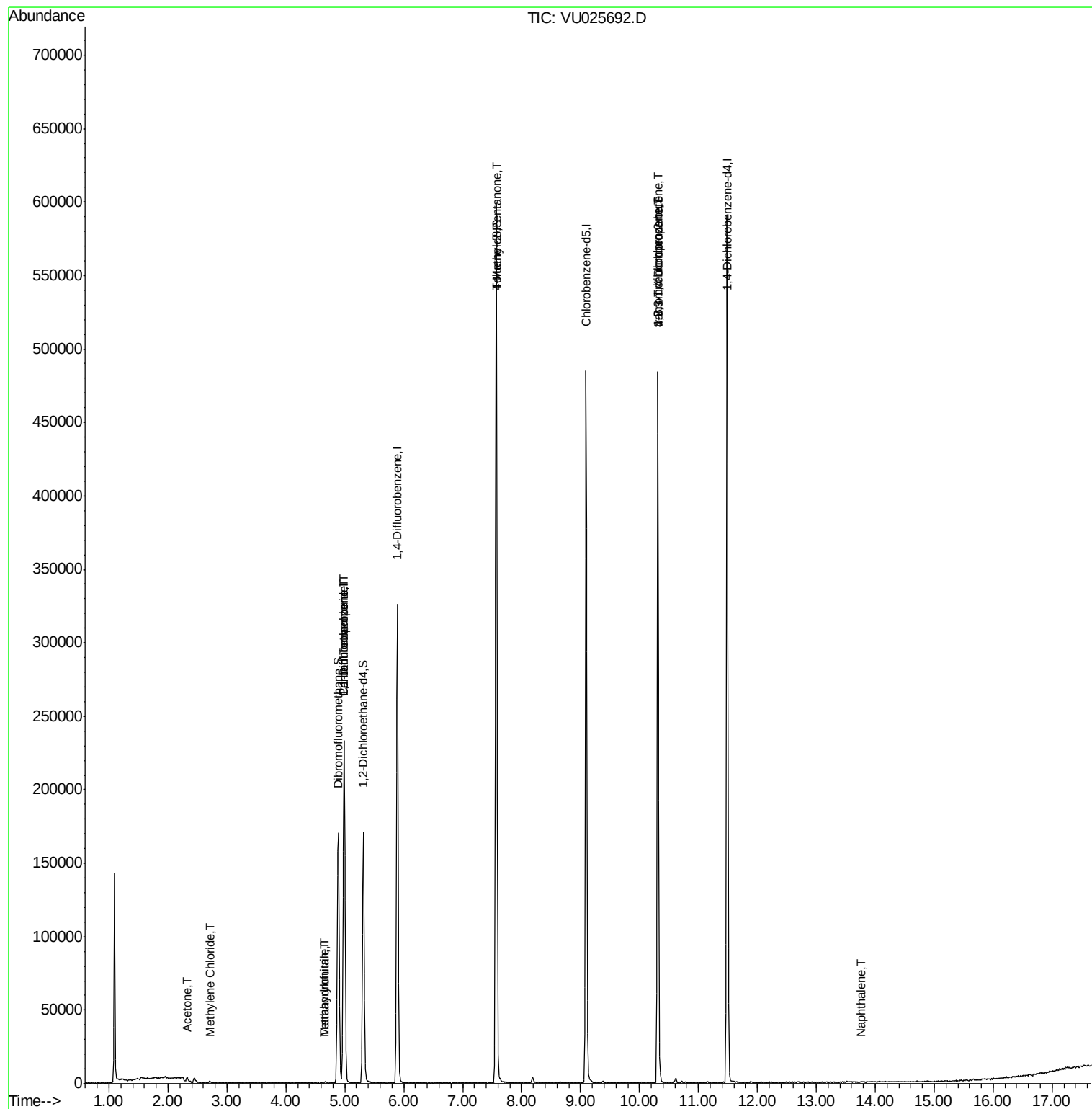
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	2.19	56	45	Below Cal	#	12
16) Acetone	2.33	43	3256	2.38	ug/l	100
20) Methylene Chloride	2.71	84	544	0.22	ug/l #	79
29) Tetrahydrofuran	4.65	42	548	0.49	ug/l #	56
31) Cyclohexane	4.99	56	3363	Below Cal	#	4
36) 1,1-Dichloropropene	4.99	75	12638	3.93	ug/l #	50
38) Carbon Tetrachloride	4.99	117	16952	4.66	ug/l #	16
41) Methacrylonitrile	4.66	41	461	0.25	ug/l #	24
51) 4-Methyl-2-Pentanone	7.57	43	1564	0.45	ug/l #	1
76) 1,2,3-Trichloropropane	10.31	75	80376	22.30	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	80376	55.91	ug/l #	100
95) Naphthalene	13.76	128	430	1.29	ug/l #	69

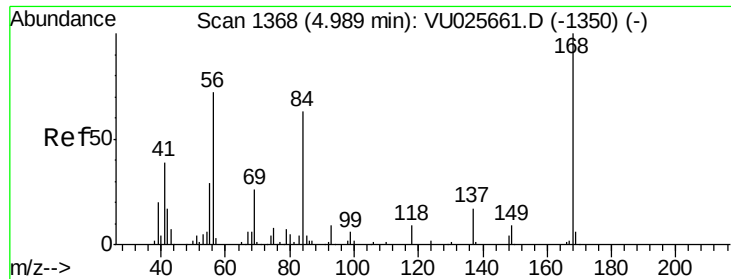
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U072718W.M
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QLast Update : Fri Jul 27 13:11:52 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: VU025692.D

Acq: 28 Jul 2018 01:05

Instrument :

MSVOA_U

ClientSampleId :

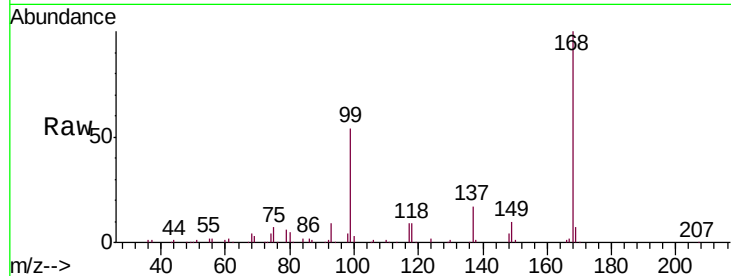
TB-01-180724

Tot Ion:168 Resp: 179732

Ion Ratio Lower Upper

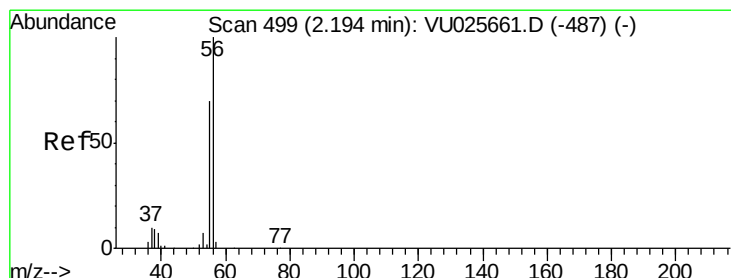
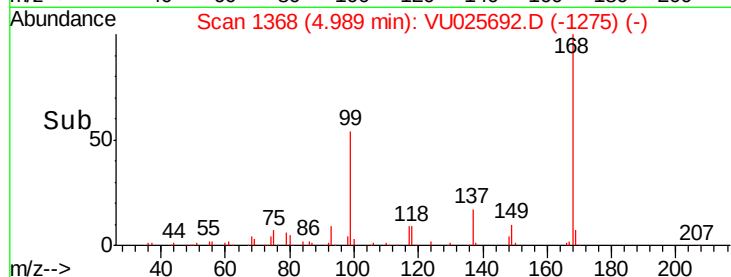
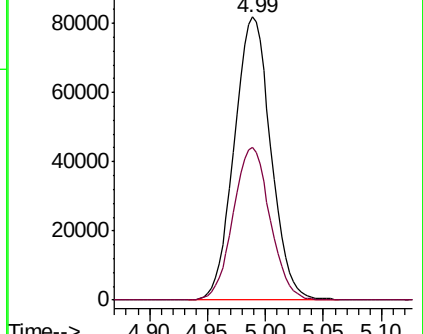
168 100

99 54.0 42.8 64.2



Abundance Ion 167.90 (167.60 to 168.60): VU025661.D (-1350) (-)

Ion 98.90 (98.60 to 99.60): VU025661.D (-1350) (-)



#13

Acrolein

Concen: Below Cal

RT: 2.19 min Scan# 497

Delta R.T. -0.01 min

Lab File: VU025692.D

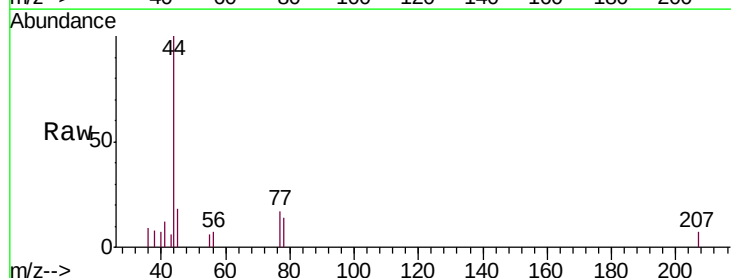
Acq: 28 Jul 2018 01:05

Tgt Ion: 56 Resp: 45

Ion Ratio Lower Upper

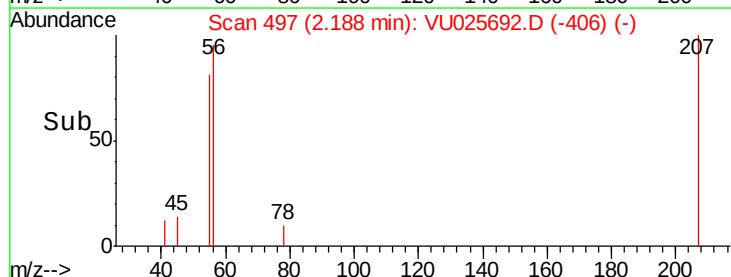
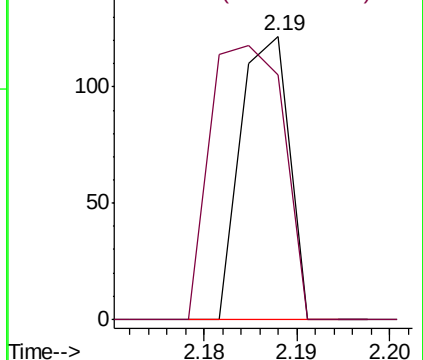
56 100

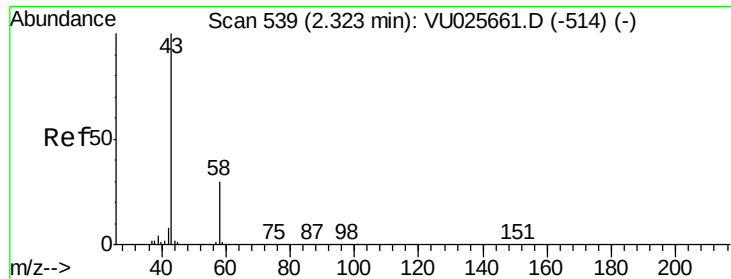
55 144.4 57.2 85.8#



Abundance Ion 56.00 (55.70 to 56.70): VU025661.D (-487) (-)

Ion 55.00 (54.70 to 55.70): VU025661.D (-487) (-)





#16

Acetone

Concen: 2.38 ug/l

RT: 2.33 min Scan# 540

Delta R.T. 0.00 min

Lab File: VU025692.D

Acq: 28 Jul 2018 01:05

Instrument :

MSVOA_U

ClientSampleId :

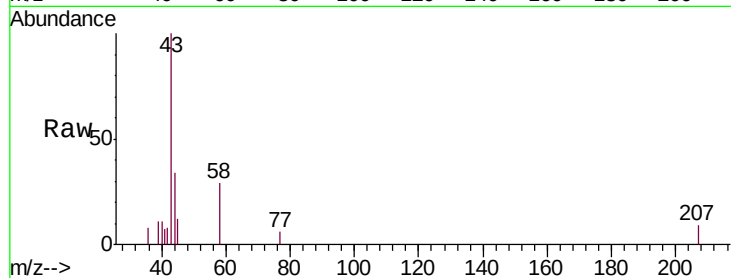
TB-01-180724

Tot Ion: 43 Resp: 3256

Ion Ratio Lower Upper

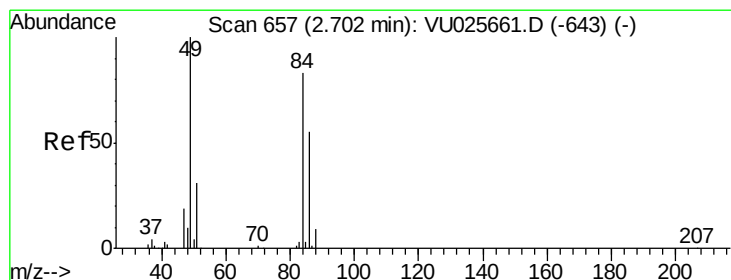
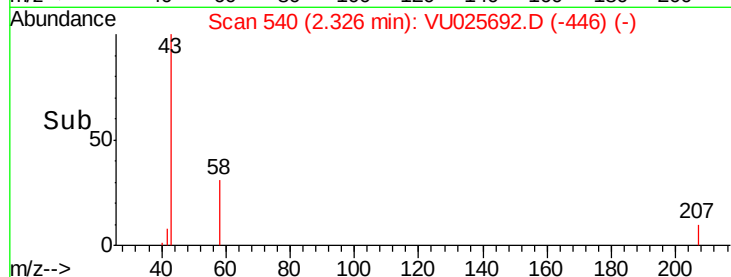
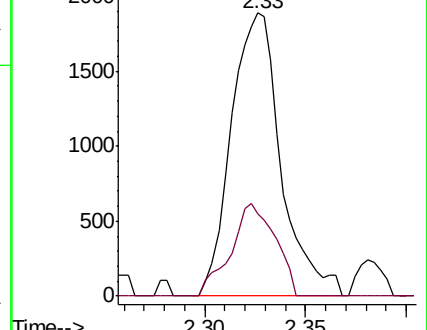
43 100

58 29.1 23.1 34.7



Abundance Ion 43.00 (42.70 to 43.70): VU025661.D (-514) (-)

Ion 58.00 (57.70 to 58.70): VU025661.D (-514) (-)



#20

Methylene Chloride

Concen: 0.22 ug/l

RT: 2.71 min Scan# 659

Delta R.T. 0.01 min

Lab File: VU025692.D

Acq: 28 Jul 2018 01:05

Tgt Ion: 84 Resp: 544

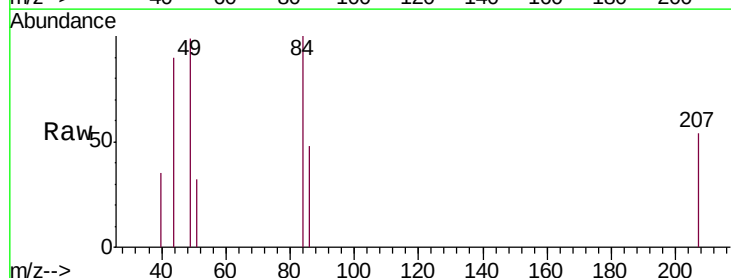
Ion Ratio Lower Upper

84 100

49 99.5 101.8 152.6#

51 32.3 30.8 46.2

86 48.2 51.9 77.9#

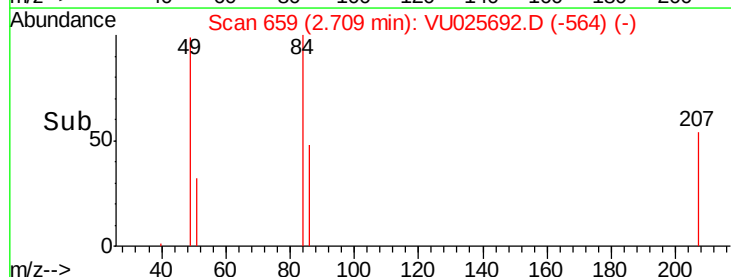
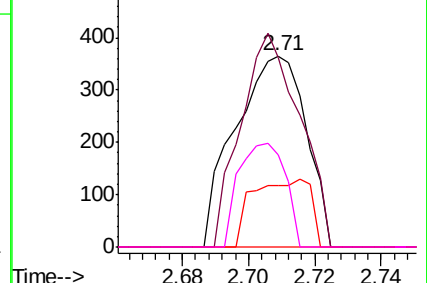


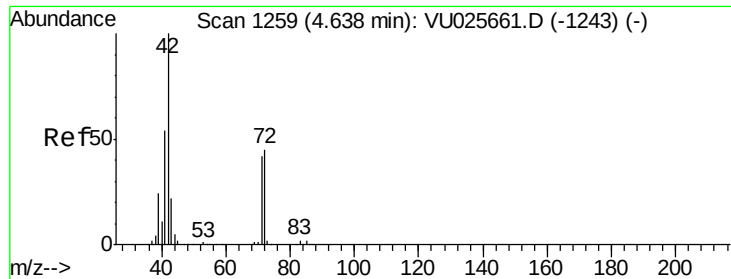
Abundance Ion 83.90 (83.60 to 84.60): VU025661.D (-643) (-)

Ion 48.90 (48.60 to 49.60): VU025661.D (-643) (-)

Ion 50.90 (50.60 to 51.60): VU025661.D (-643) (-)

Ion 85.90 (85.60 to 86.60): VU025661.D (-643) (-)





#29

Tetrahydrofuran

Concen: 0.49 ug/l

RT: 4.65 min Scan# 1264

Delta R.T. 0.02 min

Lab File: VU025692.D

Acq: 28 Jul 2018 01:05

Instrument :

MSVOA_U

ClientSampleId :

TB-01-180724

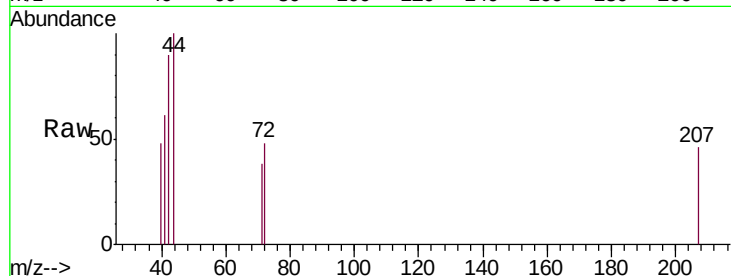
Tot Ion: 42 Resp: 548

Ion Ratio Lower Upper

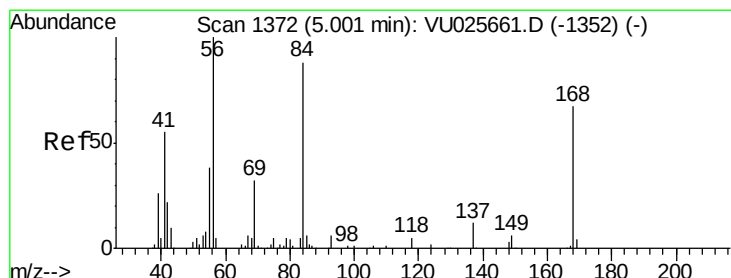
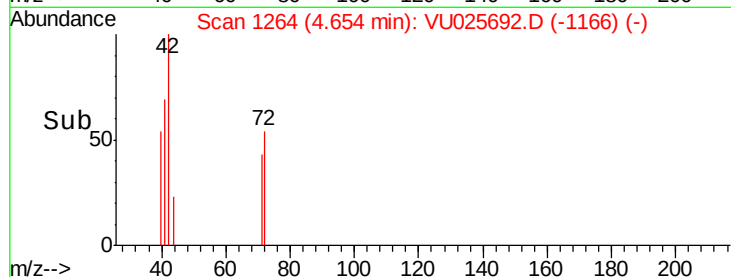
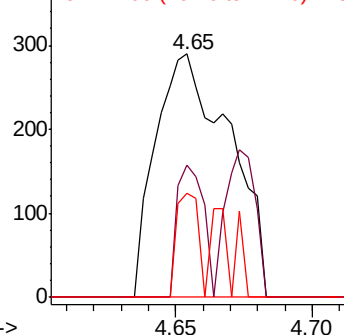
42 100

72 19.2 36.7 55.1#

71 12.4 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# 1367

Delta R.T. -0.02 min

Lab File: VU025692.D

Acq: 28 Jul 2018 01:05

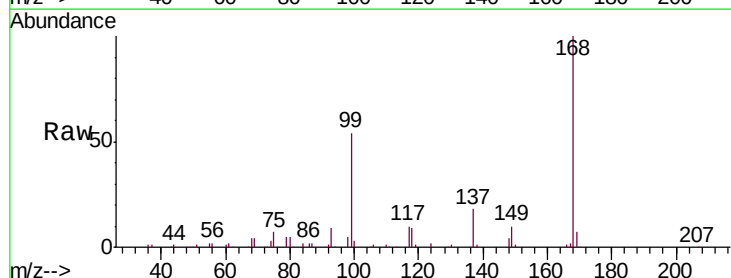
Tgt Ion: 56 Resp: 3363

Ion Ratio Lower Upper

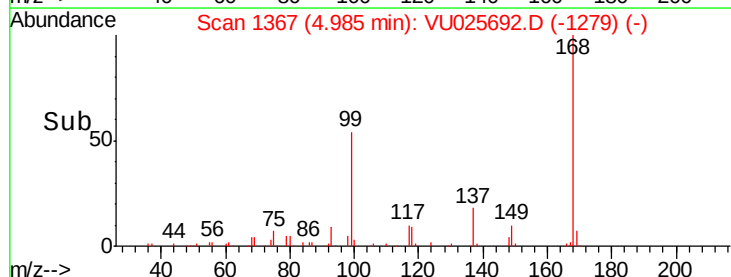
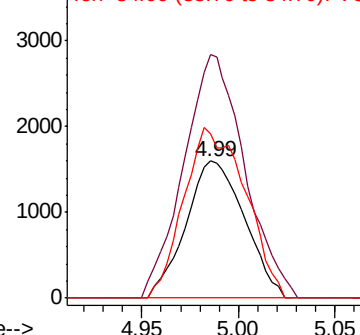
56 100

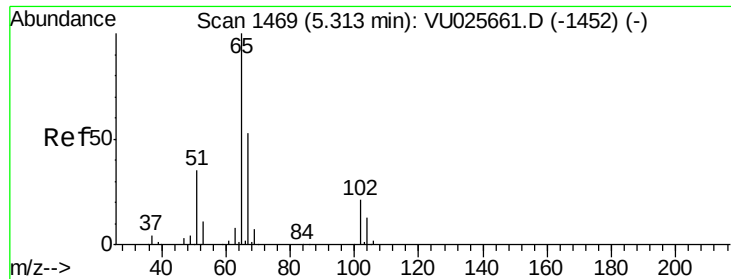
69 177.6 26.8 40.2#

84 119.6 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

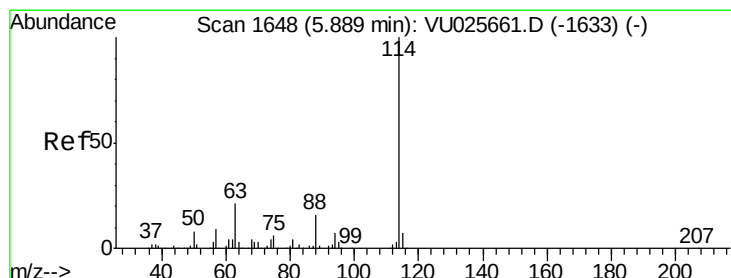
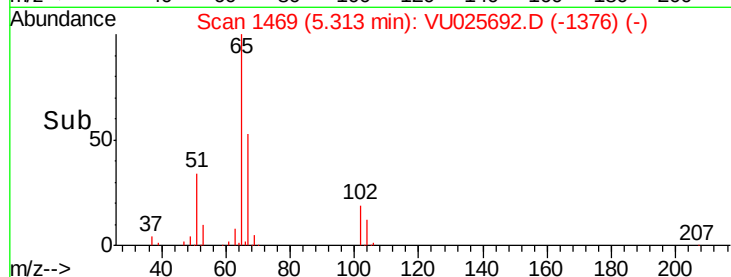
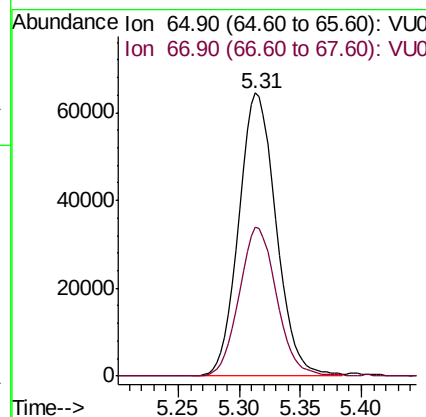
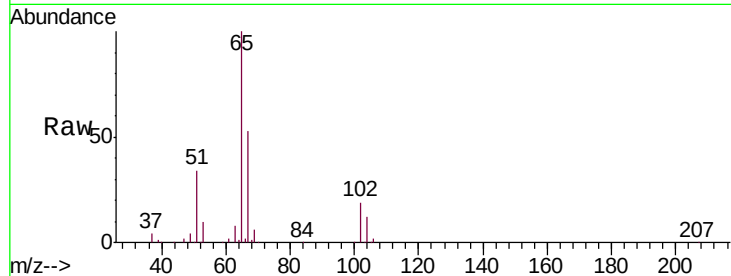




#33
 1,2-Dichloroethane-d4
 Concen: 48.86 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VU025692.D
 Acq: 28 Jul 2018 01:05

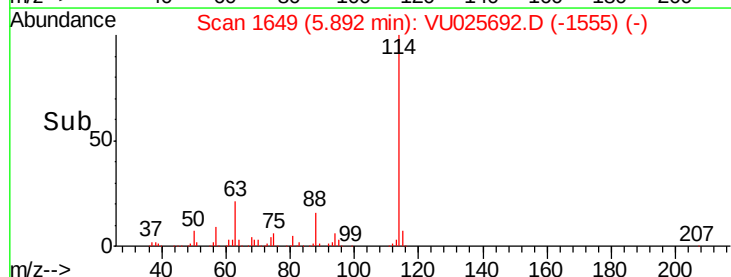
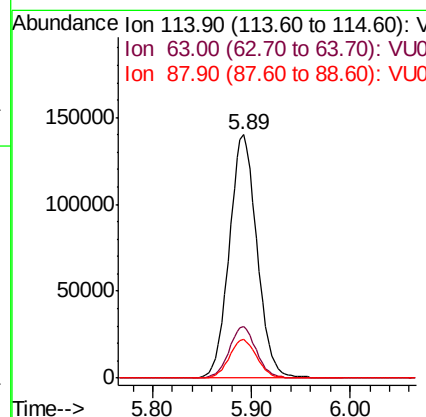
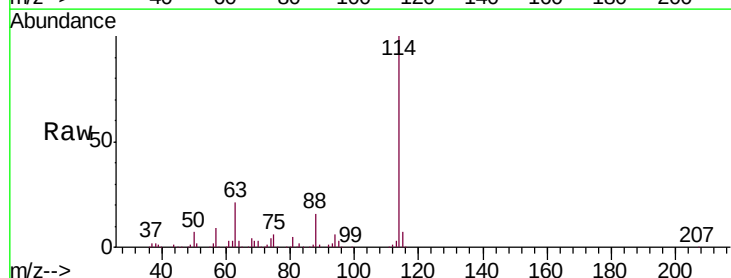
Instrument :
 MSVOA_U
 ClientSampleId :
 TB-01-180724

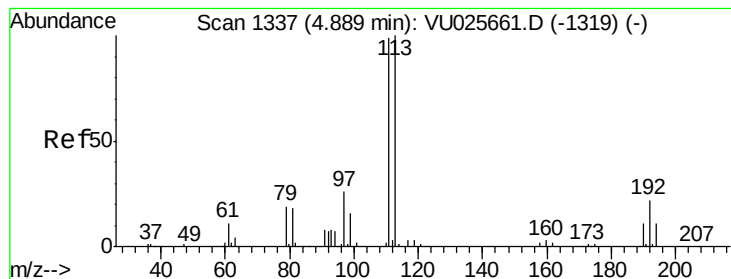
Tot Ion: 65 Resp: 136826
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 103.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.89 min Scan# 1649
 Delta R.T. 0.00 min
 Lab File: VU025692.D
 Acq: 28 Jul 2018 01:05

Tgt Ion: 114 Resp: 275095
 Ion Ratio Lower Upper
 114 100
 63 21.2 0.0 41.6
 88 15.7 0.0 32.4





#35

Dibromofluoromethane

Concen: 48.20 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU025692.D

Acq: 28 Jul 2018 01:05

Instrument :

MSVOA_U

ClientSampleId :

TB-01-180724

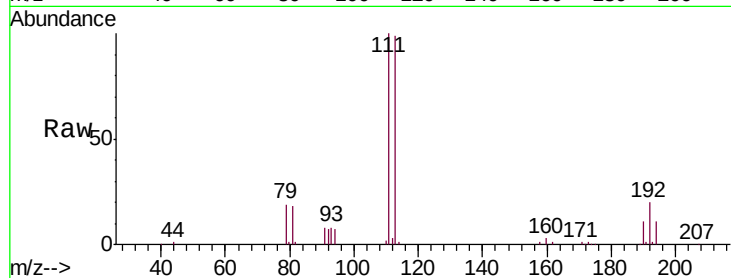
Tot Ion:113 Resp: 115328

Ion Ratio Lower Upper

113 100

111 102.0 81.7 122.5

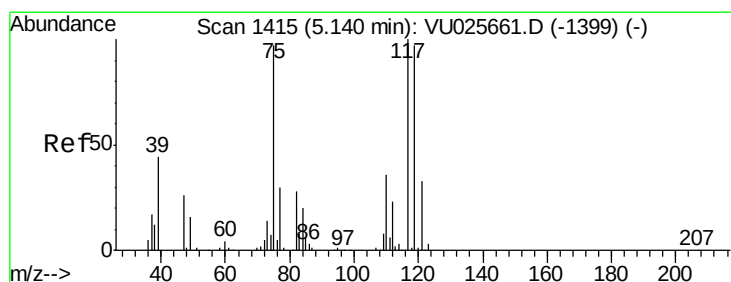
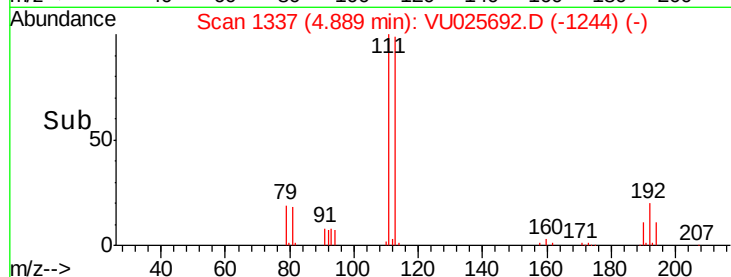
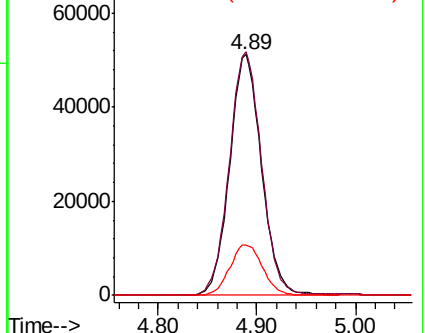
192 21.5 17.1 25.7



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: 3.93 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU025692.D

Acq: 28 Jul 2018 01:05

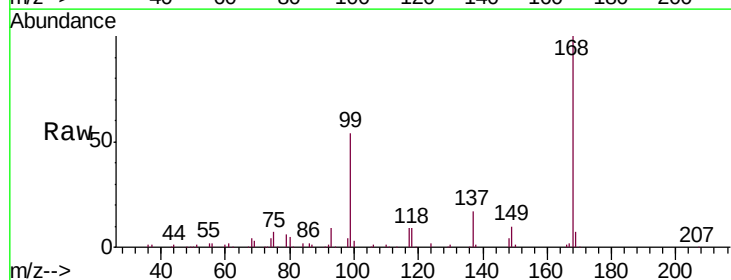
Tgt Ion: 75 Resp: 12638

Ion Ratio Lower Upper

75 100

110 9.4 17.6 52.9#

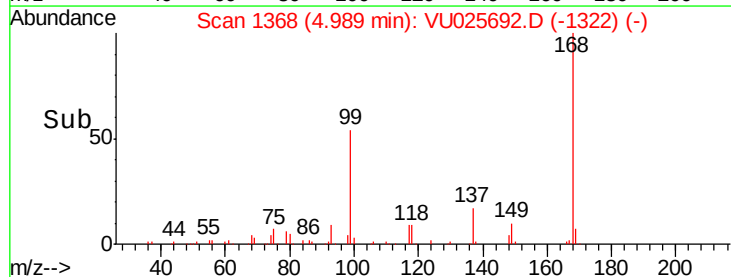
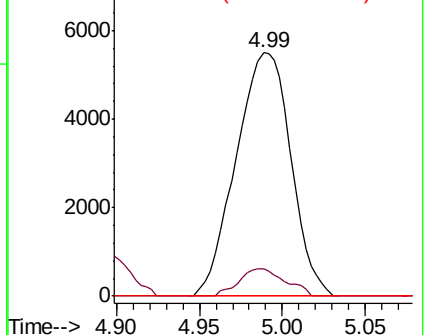
77 0.0 24.4 36.6#

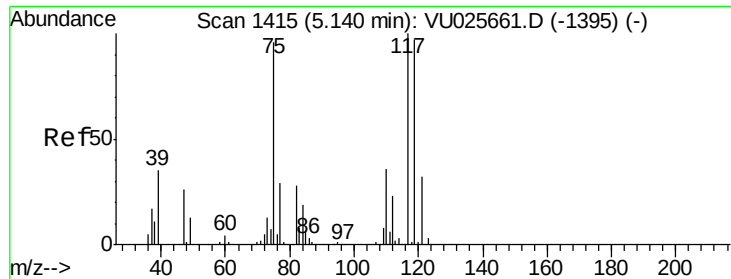


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0





#38

Carbon Tetrachloride

Concen: 4.66 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU025692.D

Acq: 28 Jul 2018 01:05

Instrument :

MSVOA_U

ClientSampleId :

TB-01-180724

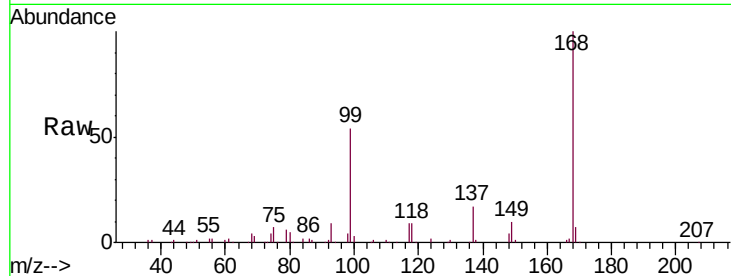
Tot Ion:117 Resp: 16952

Ion Ratio Lower Upper

117 100

119 4.9 75.7 113.5#

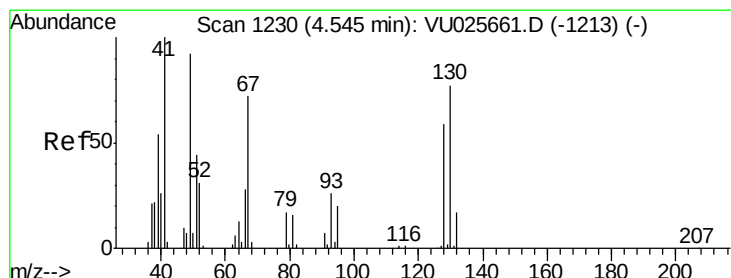
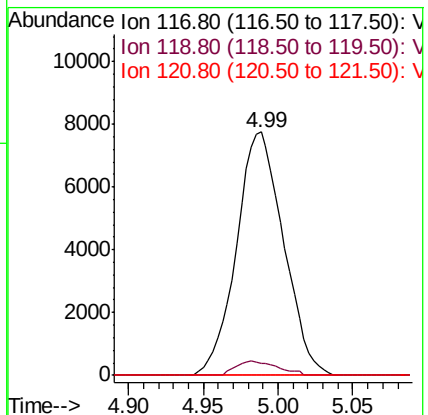
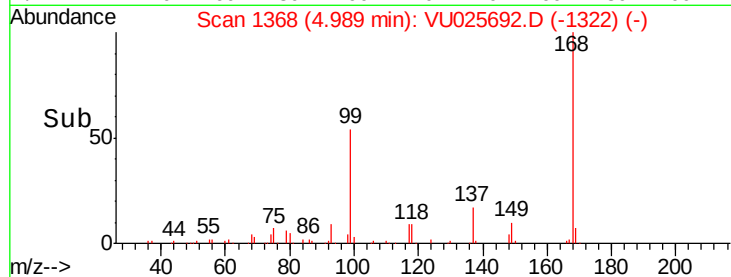
121 0.0 24.6 36.8#



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



#41

Methacrylonitrile

Concen: 0.25 ug/l

RT: 4.66 min Scan# 1266

Delta R.T. 0.12 min

Lab File: VU025692.D

Acq: 28 Jul 2018 01:05

Tgt Ion: 41 Resp: 461

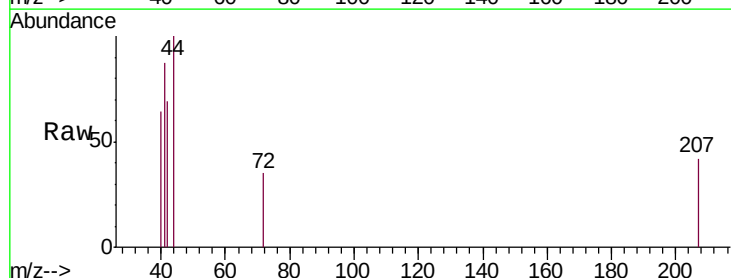
Ion Ratio Lower Upper

41 100

39 0.0 44.4 66.6#

67 0.0 56.0 84.0#

52 0.0 24.6 36.8#

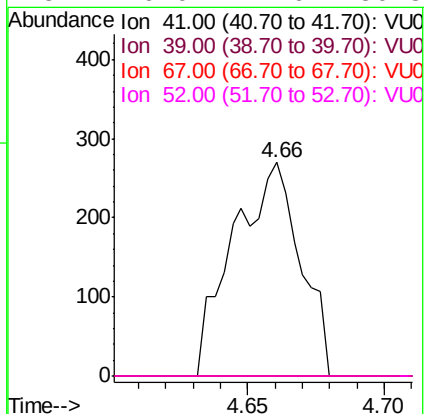
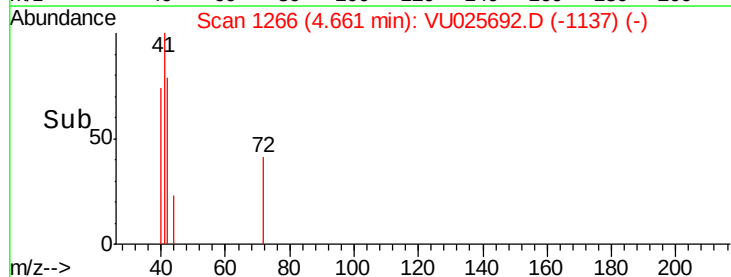


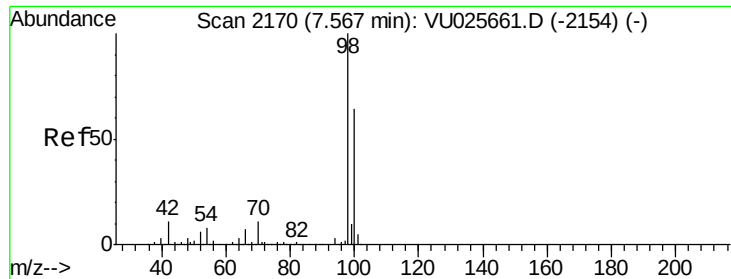
Abundance Ion 41.00 (40.70 to 41.70): VU0

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

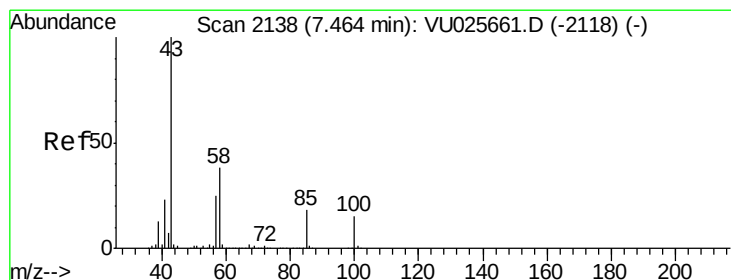
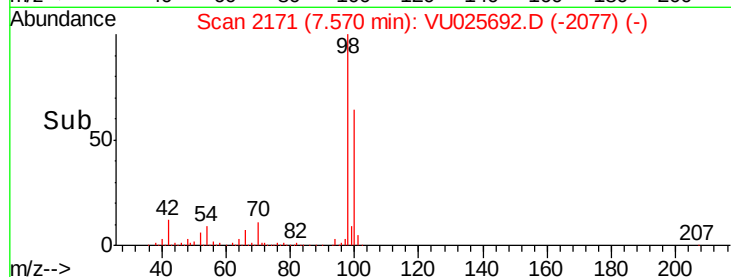
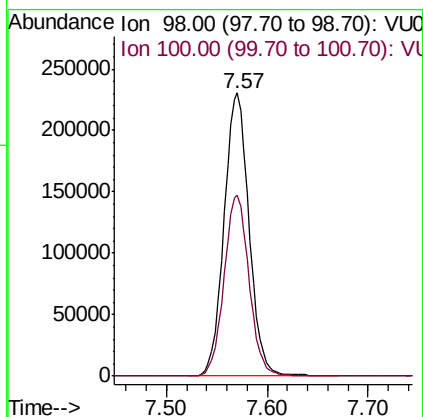
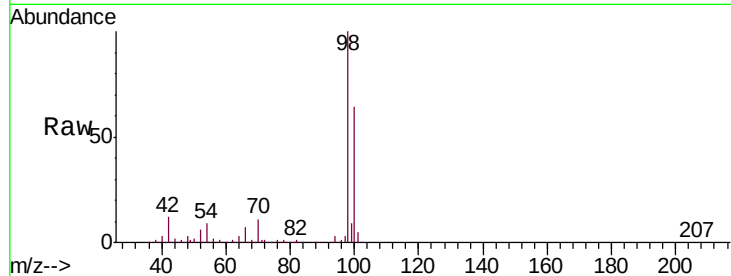




#50
Toluene-d8
Concen: 47.80 ug/l
RT: 7.57 min Scan# 2171
Delta R.T. 0.00 min
Lab File: VU025692.D
Acq: 28 Jul 2018 01:05

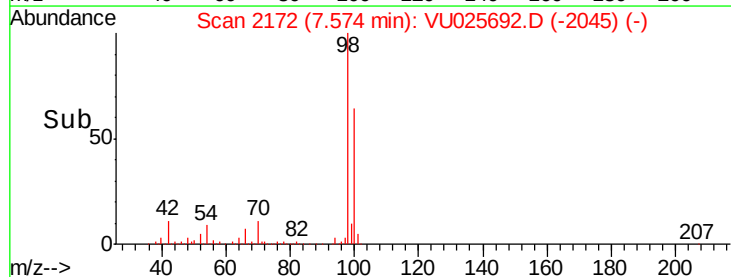
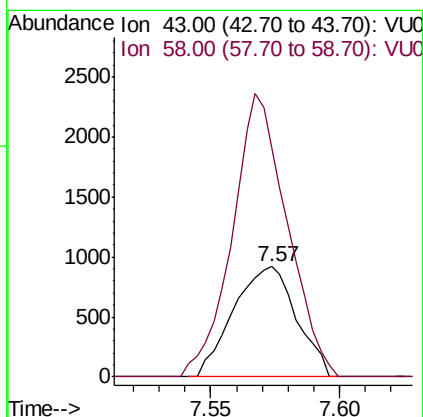
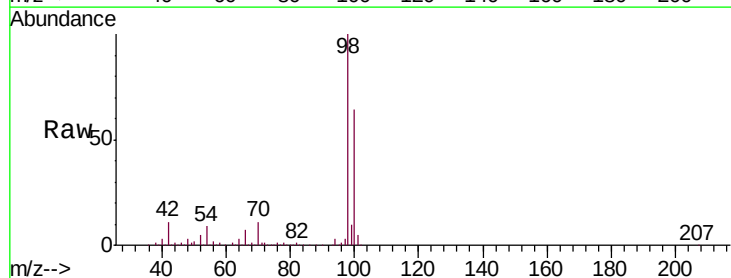
Instrument :
MSVOA_U
ClientSampleId :
TB-01-180724

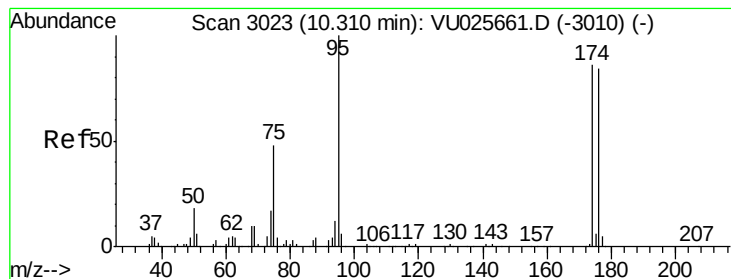
Tot Ion: 98 Resp: 400218
Ion Ratio Lower Upper
98 100
100 64.0 51.1 76.7



#51
4-Methyl-2-Pentanone
Concen: 0.45 ug/l
RT: 7.57 min Scan# 2172
Delta R.T. 0.11 min
Lab File: VU025692.D
Acq: 28 Jul 2018 01:05

Tgt Ion: 43 Resp: 1564
Ion Ratio Lower Upper
43 100
58 223.6 31.0 46.4#





#62

4-Bromofluorobenzene

Concen: 47.74 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU025692.D

Acq: 28 Jul 2018 01:05

Instrument :

MSVOA_U

ClientSampleId :

TB-01-180724

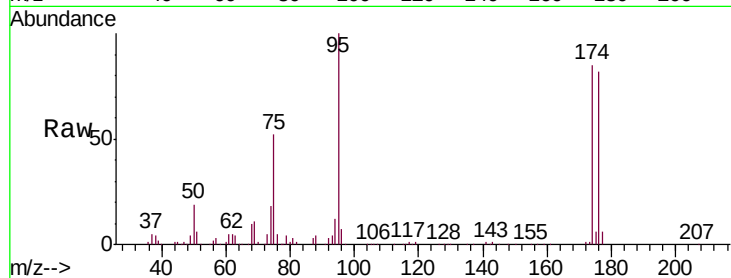
Tot Ion: 95 Resp: 155133

Ion Ratio Lower Upper

95 100

174 87.8 0.0 172.2

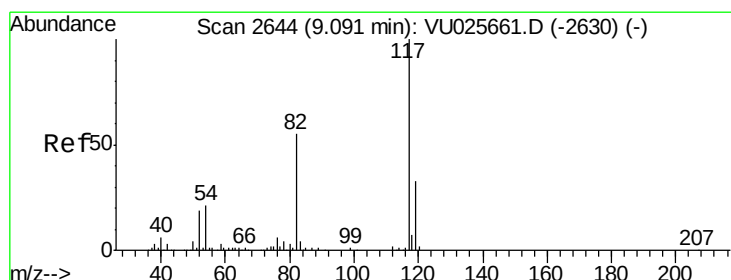
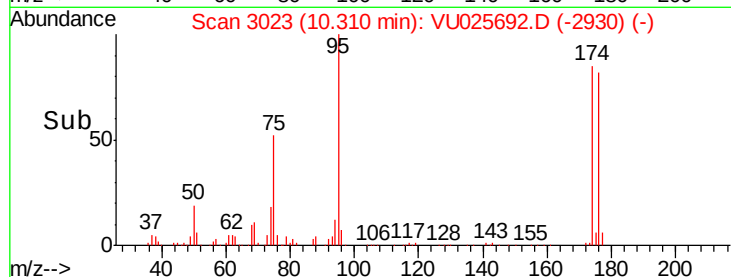
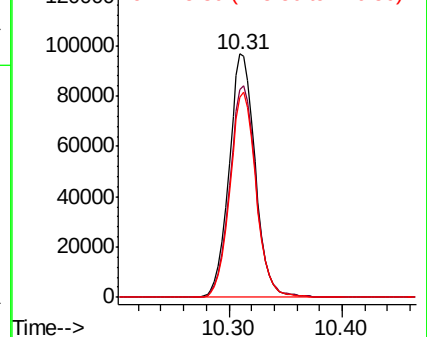
176 84.3 0.0 162.6



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: 50.00 ug/l

RT: 9.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VU025692.D

Acq: 28 Jul 2018 01:05

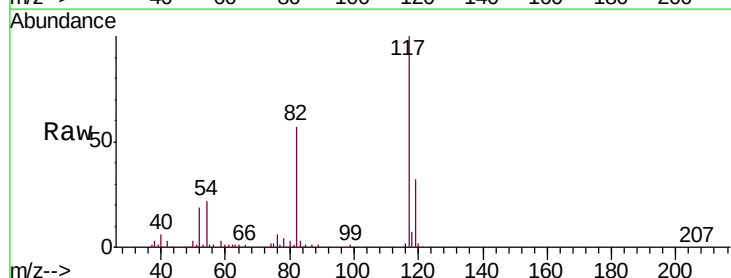
Tgt Ion: 117 Resp: 268428

Ion Ratio Lower Upper

117 100

82 56.8 46.0 69.0

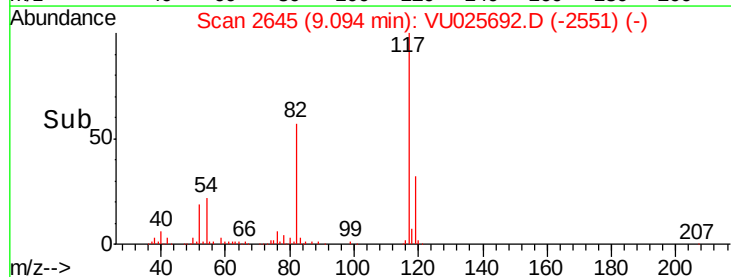
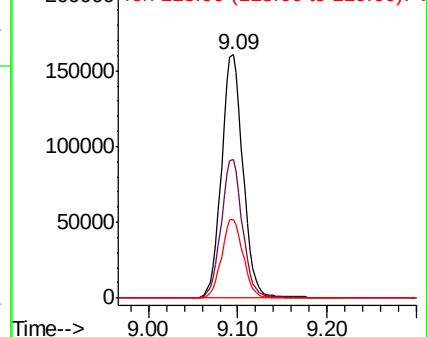
119 32.5 26.0 39.0

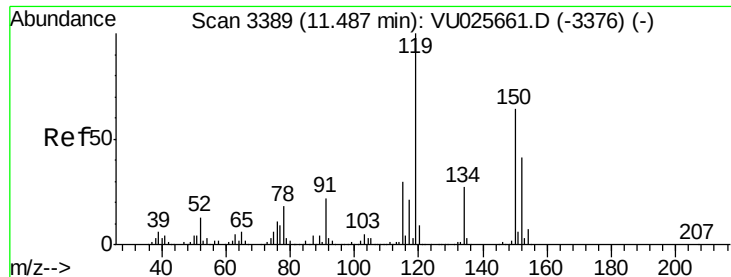


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VU0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU025692.D

Acq: 28 Jul 2018 01:05

Instrument :

MSVOA_U

ClientSampleId :

TB-01-180724

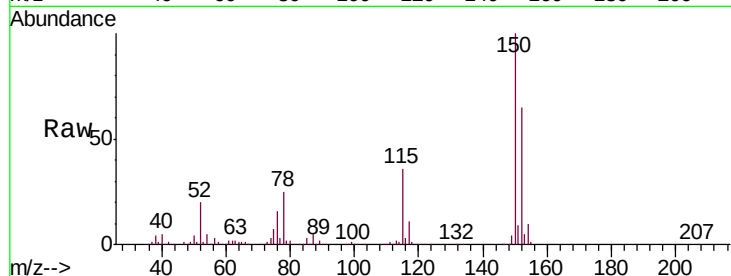
Tot Ion:152 Resp: 163605

Ion Ratio Lower Upper

152 100

115 56.1 40.1 120.3

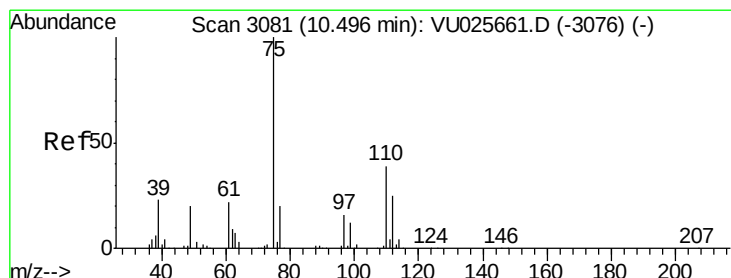
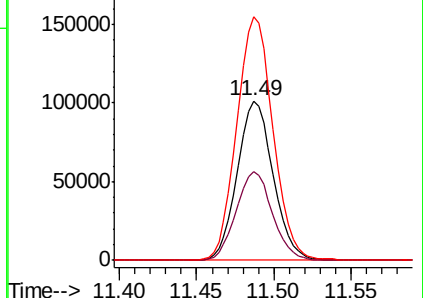
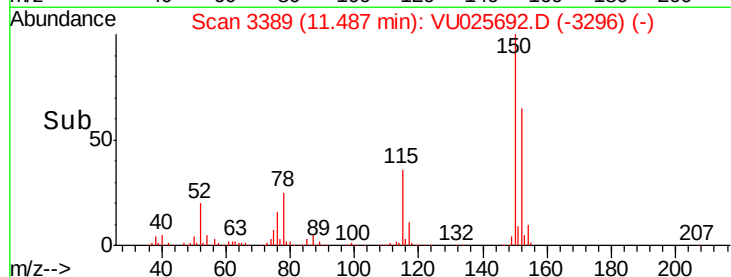
150 154.3 0.0 351.4



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: 22.30 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025692.D

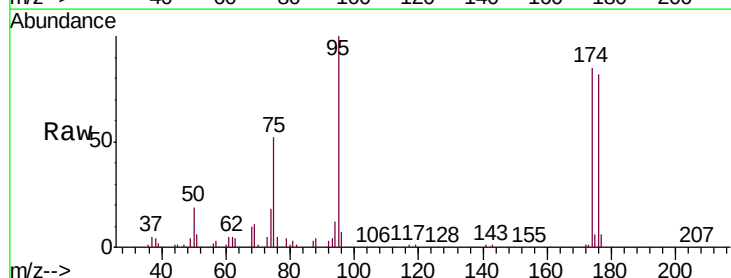
Acq: 28 Jul 2018 01:05

Tgt Ion: 75 Resp: 80376

Ion Ratio Lower Upper

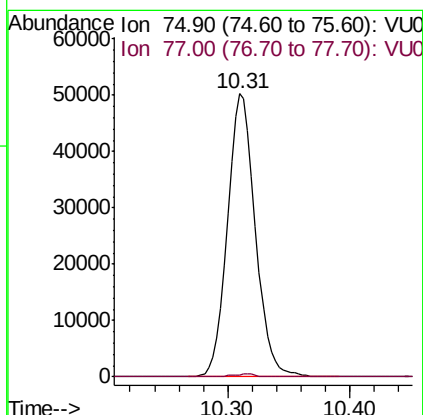
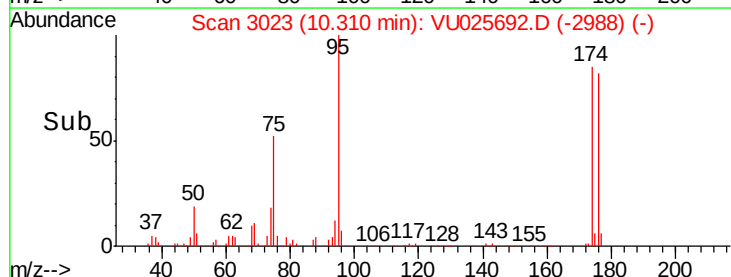
75 100

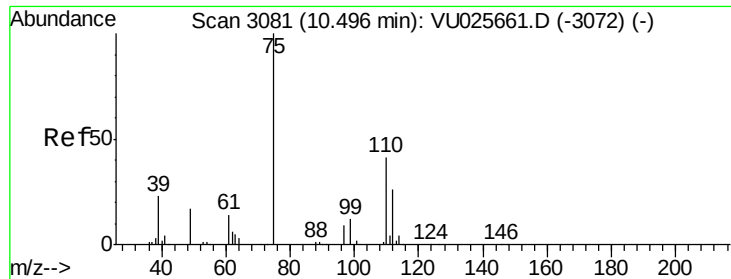
77 1.0 20.4 61.3#



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: 55.91 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025692.D

Acq: 28 Jul 2018 01:05

Instrument :

MSVOA_U

ClientSampleId :

TB-01-180724

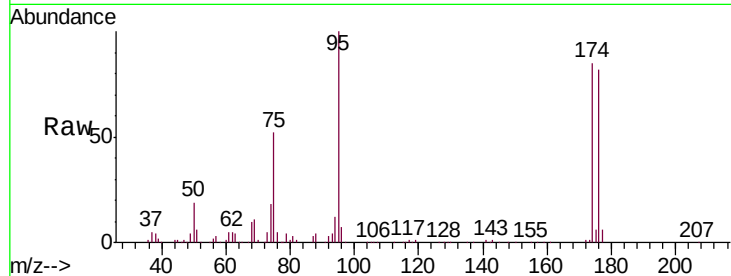
Tot Ion: 75 Resp: 80376

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

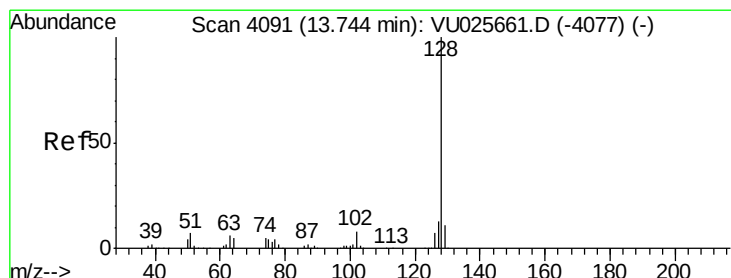
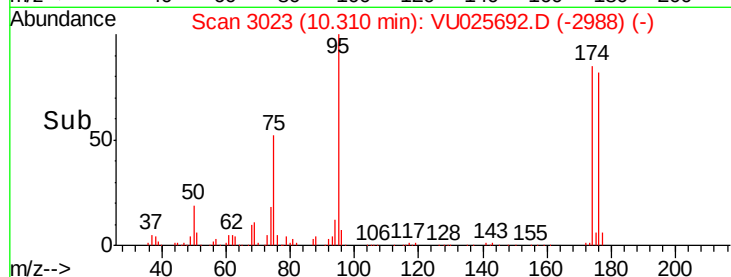
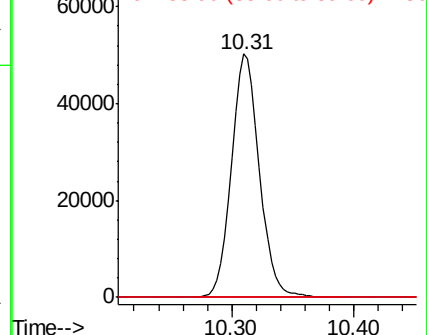
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU025661.D (-3072) (-)

Ion 53.00 (52.70 to 53.70): VU025661.D (-3072) (-)

Ion 88.90 (88.60 to 89.60): VU025661.D (-3072) (-)



#95

Naphthalene

Concen: 1.29 ug/l

RT: 13.76 min Scan# 4097

Delta R.T. 0.02 min

Lab File: VU025692.D

Acq: 28 Jul 2018 01:05

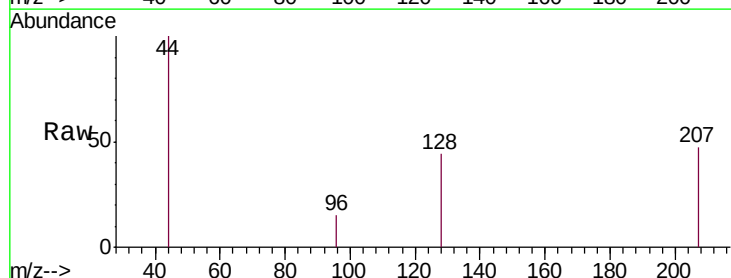
Tgt Ion: 128 Resp: 430

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): VU025661.D (-4077) (-)

Ion 127.00 (126.70 to 127.70): VU025661.D (-4077) (-)

Ion 129.00 (128.70 to 129.70): VU025661.D (-4077) (-)

