

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092618\
 Data File : VU027211.D
 Acq On : 27 Sep 2018 05:04
 Operator : MD/SY
 Sample : J5048-09
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 CMT-22-6-SEP18

Quant Time: Sep 27 08:08:55 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	4.98	168	107278	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	181069	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	173183	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	82095	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	106591	49.37	ug/l	0.00
Spiked Amount			Recovery	=	98.74%	
35) Dibromofluoromethane	4.88	113	75285	47.97	ug/l	0.00
Spiked Amount			Recovery	=	95.94%	
50) Toluene-d8	7.57	98	285317	47.70	ug/l	0.00
Spiked Amount			Recovery	=	95.40%	
62) 4-Bromofluorobenzene	10.31	95	95754	46.65	ug/l	0.00
Spiked Amount			Recovery	=	93.30%	

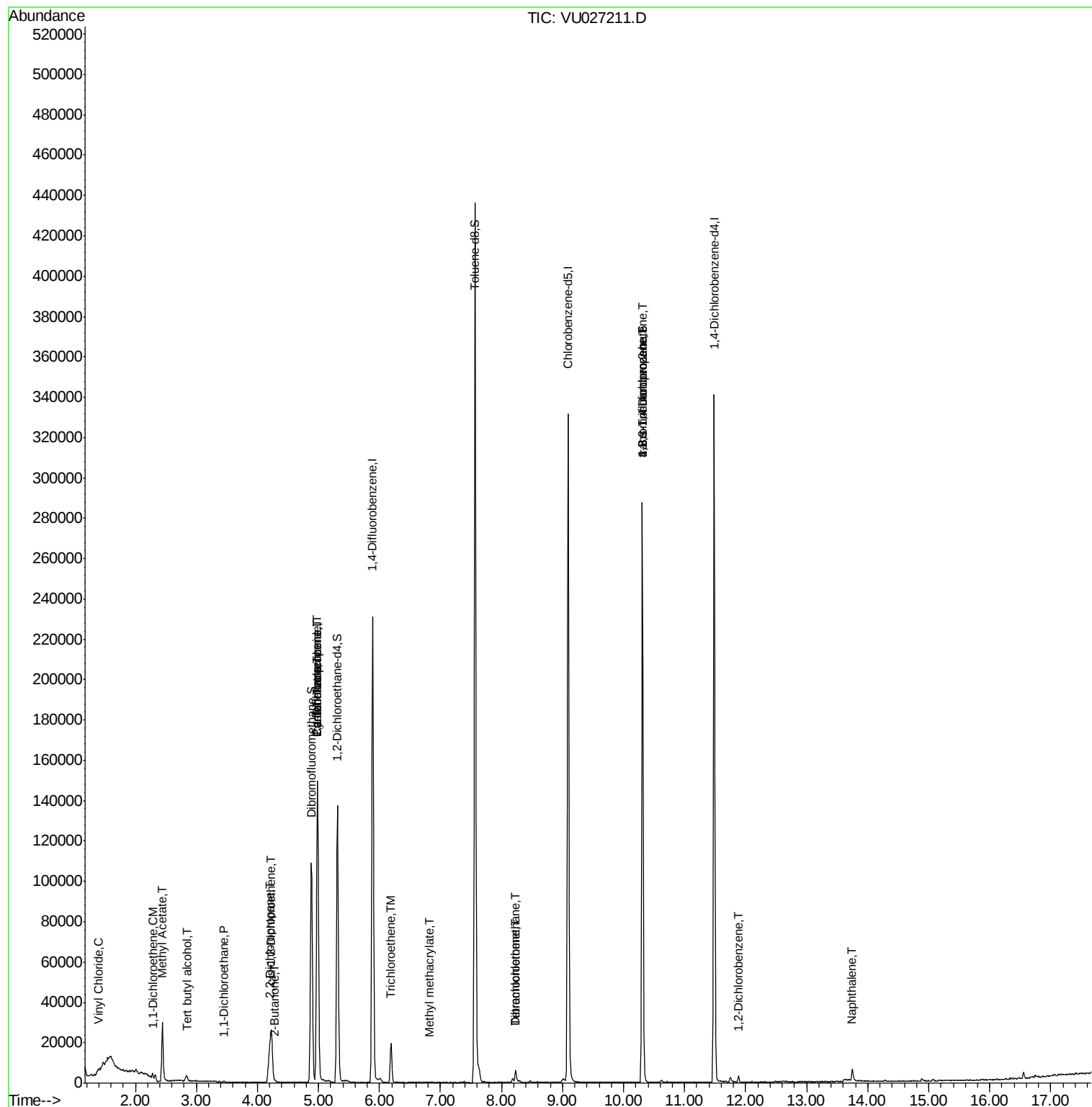
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	676	0.300	ug/l #	22
11) Tert butyl alcohol	2.84	59	1853	3.744	ug/l #	72
12) 1,1-Dichloroethene	2.29	96	493	0.333	ug/l #	62
16) Acetone	2.32	43	3838	Below Cal		99
18) Methyl Acetate	2.44	43	7408	2.411	ug/l #	55
24) 1,1-Dichloroethane	3.45	63	848	0.240	ug/l #	84
25) 2-Butanone	4.29	43	593	0.327	ug/l #	53
26) 2,2-Dichloropropane	4.20	77	977	0.354	ug/l #	55
27) cis-1,2-Dichloroethene	4.23	96	12053	6.747	ug/l	89
31) Cyclohexane	4.99	56	2568	0.226	ug/l #	1
36) 1,1-Dichloropropene	4.98	75	9995	4.136	ug/l #	49
38) Carbon Tetrachloride	4.98	117	11030	4.796	ug/l #	20
44) Trichloroethene	6.19	130	6440	4.118	ug/l	96
48) Methyl methacrylate	6.83	41	115	1.055	ug/l #	17
60) Dibromochloromethane	8.23	129	1104	0.631	ug/l #	11
64) Tetrachloroethene	8.23	164	1158	0.868	ug/l	95
76) 1,2,3-Trichloropropane	10.31	75	51458	20.633	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	51458	66.028	ug/l #	100
91) 1,2-Dichlorobenzene	11.88	146	1411	0.468	ug/l	86
95) Naphthalene	13.75	128	5690	2.498	ug/l	97

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VU027211.D

Acq: 27 Sep 2018 05:04

Instrument :

MSVOA_U

ClientSampleId :

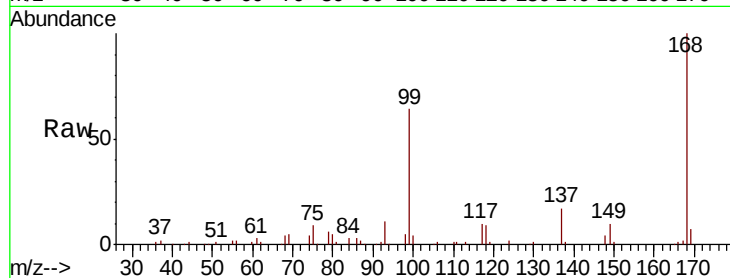
CMT-22-6-SEP18

Tgt Ion:168 Resp: 107278

Ion Ratio Lower Upper

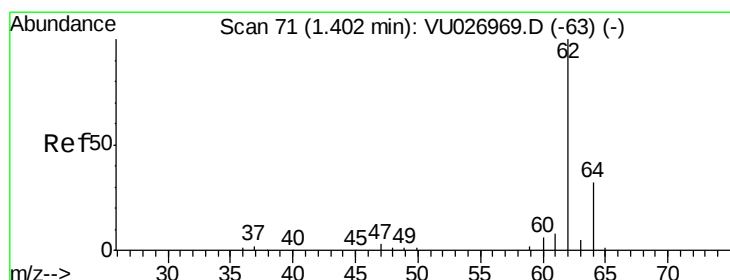
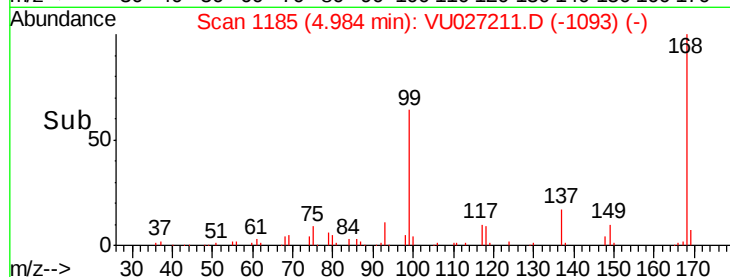
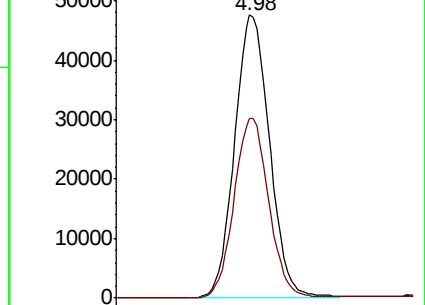
168 100

99 63.7 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): VU026969.D (-1169) (-)

Ion 98.90 (98.60 to 99.60): VU026969.D (-1169) (-)



#4

Vinyl Chloride

Concen: 0.300 ug/l

RT: 1.40 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU027211.D

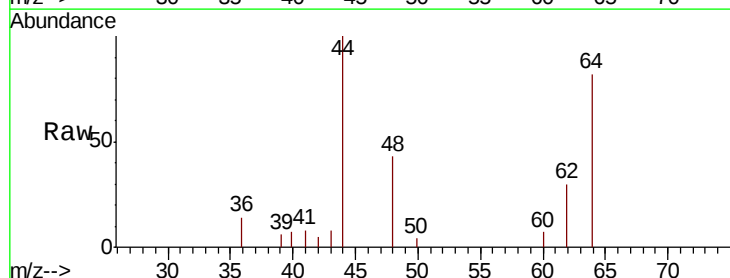
Acq: 27 Sep 2018 05:04

Tgt Ion: 62 Resp: 676

Ion Ratio Lower Upper

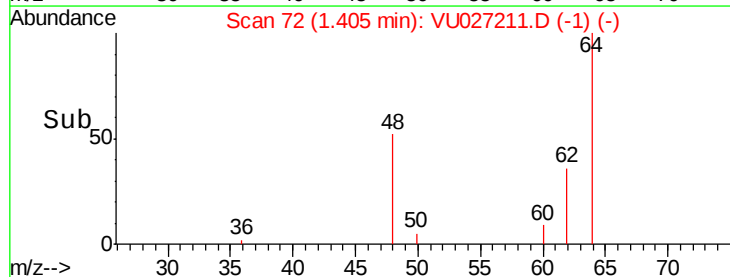
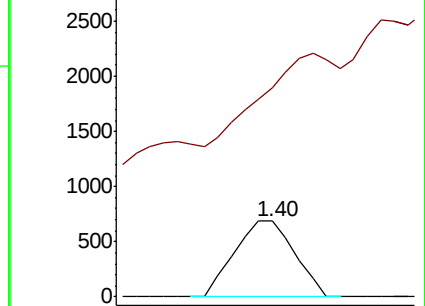
62 100

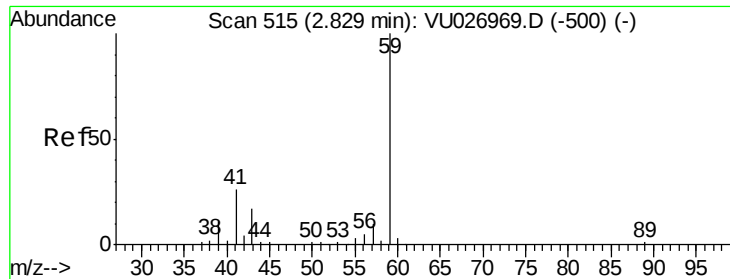
64 75.2 25.5 38.3#



Abundance Ion 61.90 (61.60 to 62.60): VU026969.D (-63) (-)

Ion 63.90 (63.60 to 64.60): VU026969.D (-63) (-)

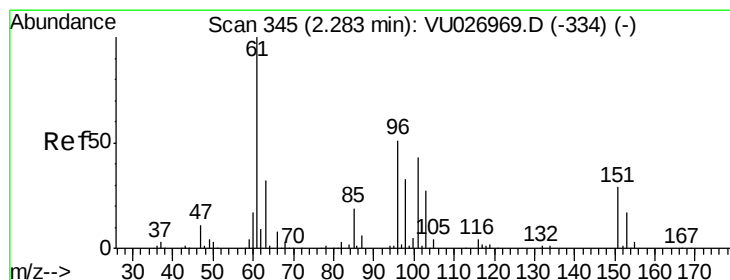
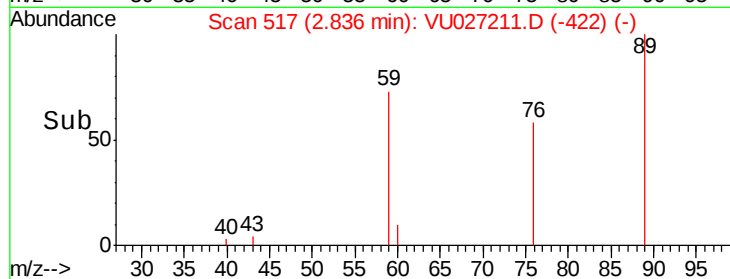
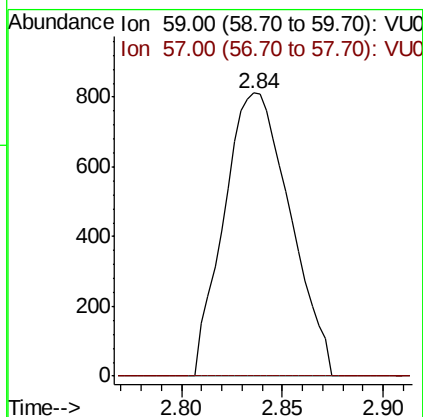
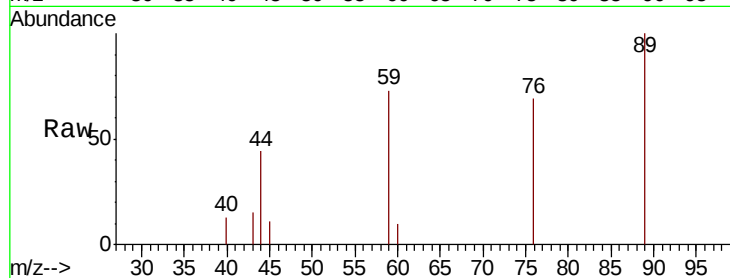




#11
Tert butyl alcohol
Concen: 3.744 ug/l
RT: 2.84 min Scan# 517
Delta R.T. 0.01 min
Lab File: VU027211.D
Acq: 27 Sep 2018 05:04

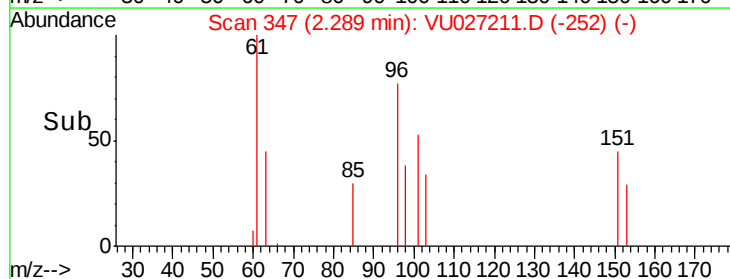
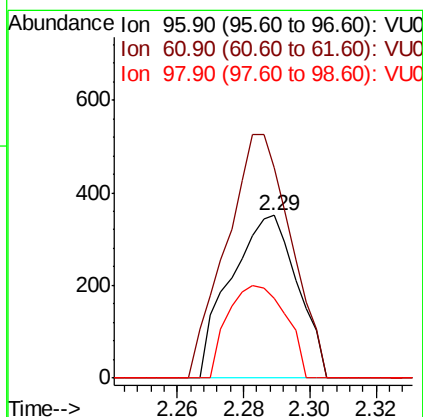
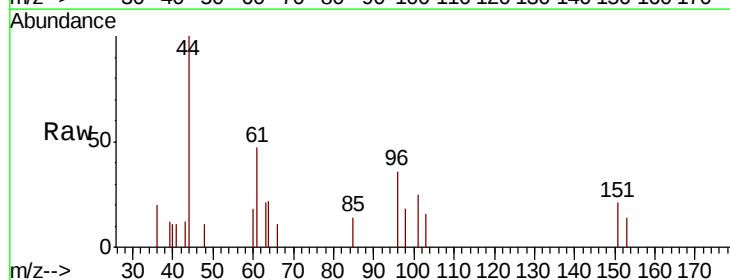
Instrument :
MSVOA_U
ClientSampleId :
CMT-22-6-SEP18

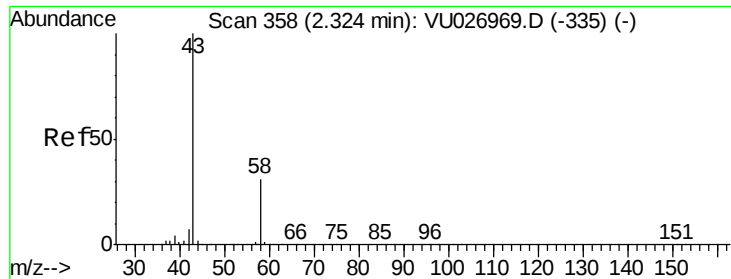
Tgt Ion: 59 Resp: 1853
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#12
1,1-Dichloroethene
Concen: 0.333 ug/l
RT: 2.29 min Scan# 347
Delta R.T. 0.01 min
Lab File: VU027211.D
Acq: 27 Sep 2018 05:04

Tgt Ion: 96 Resp: 493
Ion Ratio Lower Upper
96 100
61 129.6 156.1 234.1#
98 48.7 51.4 77.0#





#16

Acetone

Concen: Below Cal

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU027211.D

Acq: 27 Sep 2018 05:04

Instrument :

MSVOA_U

ClientSampleId :

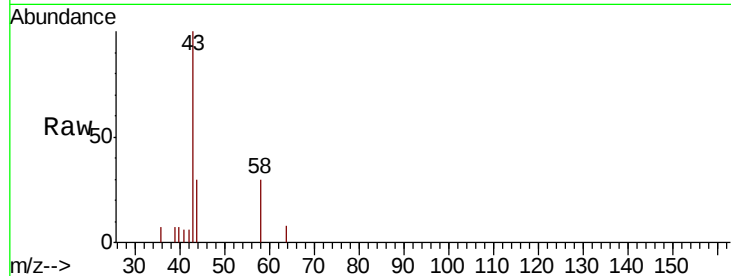
CMT-22-6-SEP18

Tgt Ion: 43 Resp: 3838

Ion Ratio Lower Upper

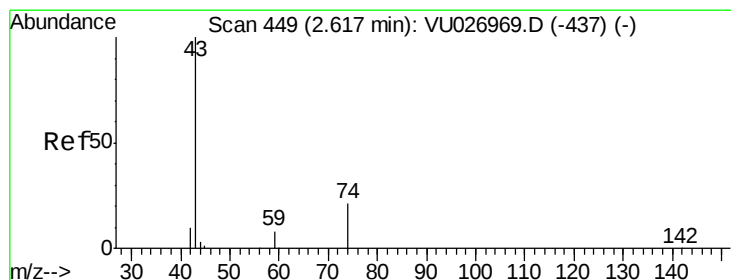
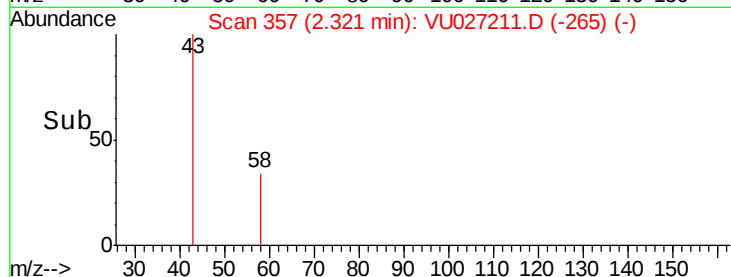
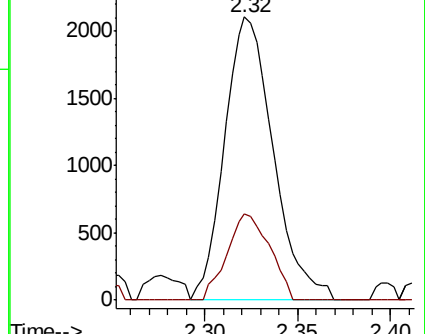
43 100

58 30.3 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#18

Methyl Acetate

Concen: 2.411 ug/l

RT: 2.44 min Scan# 395

Delta R.T. -0.17 min

Lab File: VU027211.D

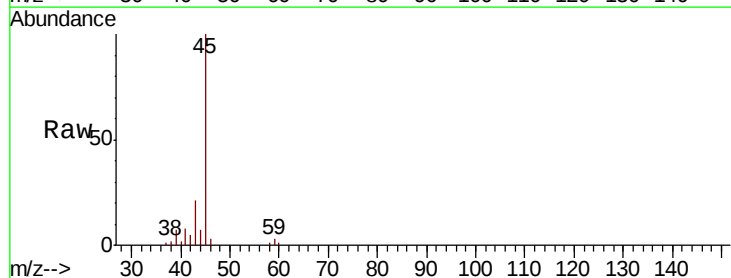
Acq: 27 Sep 2018 05:04

Tgt Ion: 43 Resp: 7408

Ion Ratio Lower Upper

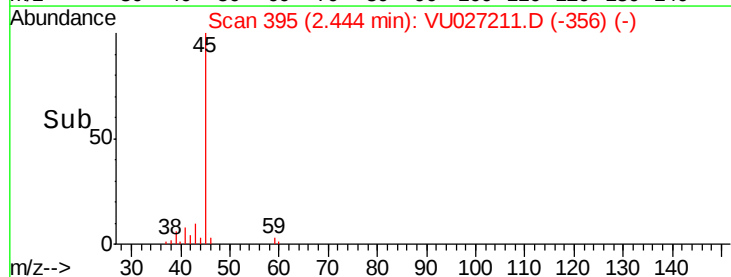
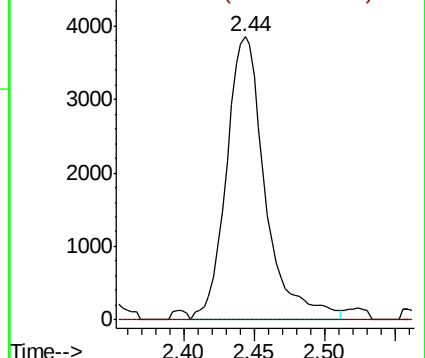
43 100

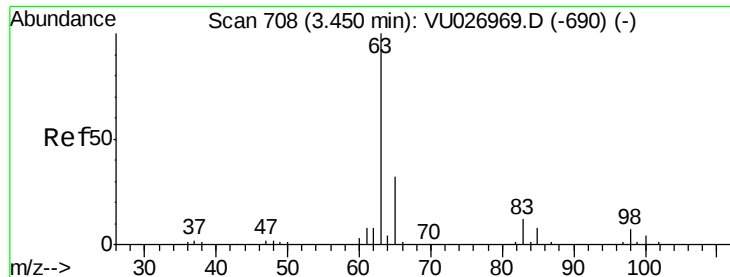
74 0.0 16.6 25.0#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0





#24

1,1-Dichloroethane

Concen: 0.240 ug/l

RT: 3.45 min Scan# 709

Delta R.T. 0.00 min

Lab File: VU027211.D

Acq: 27 Sep 2018 05:04

Instrument :

MSVOA_U

ClientSampleId :

CMT-22-6-SEP18

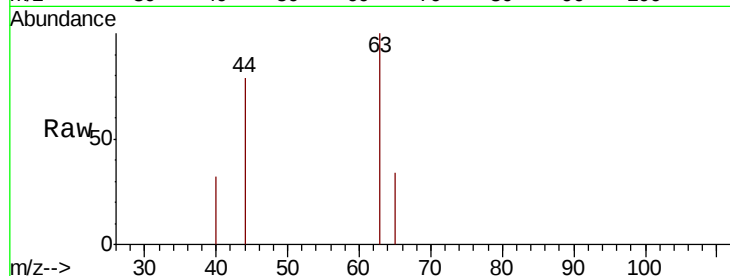
Tgt Ion: 63 Resp: 848

Ion Ratio Lower Upper

63 100

98 0.0 3.3 9.8#

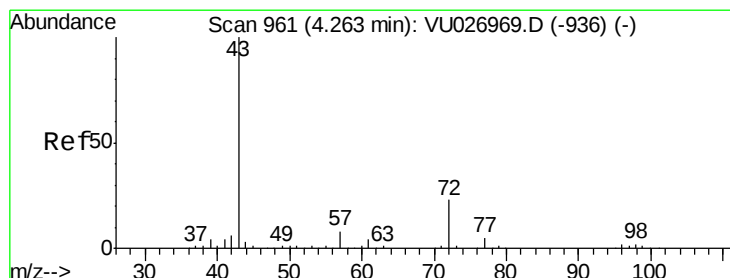
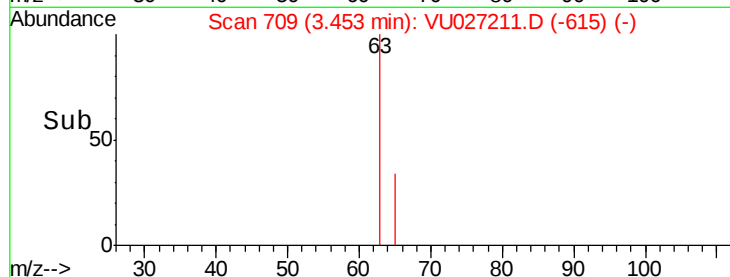
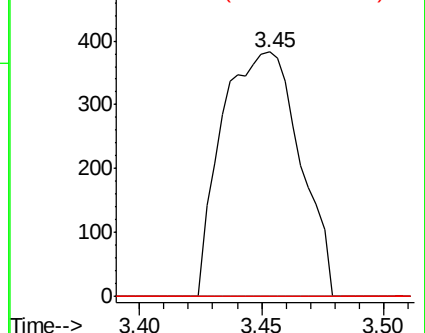
100 0.0 2.0 5.8#



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 97.90 (97.60 to 98.60): VU0

Ion 99.90 (99.60 to 100.60): VU0



#25

2-Butanone

Concen: 0.327 ug/l

RT: 4.29 min Scan# 970

Delta R.T. 0.03 min

Lab File: VU027211.D

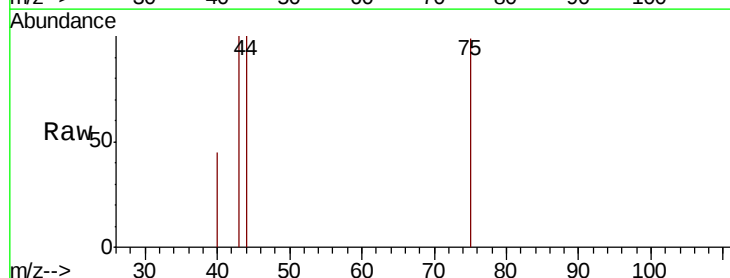
Acq: 27 Sep 2018 05:04

Tgt Ion: 43 Resp: 593

Ion Ratio Lower Upper

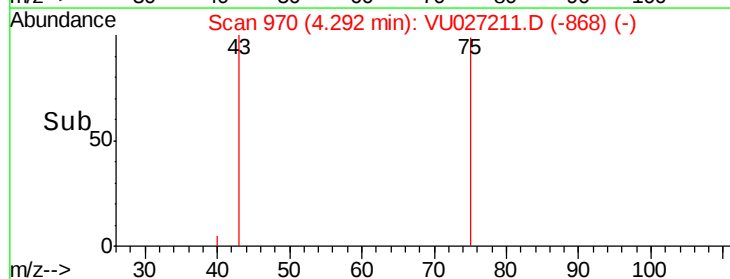
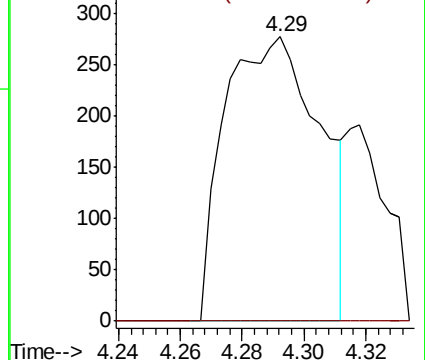
43 100

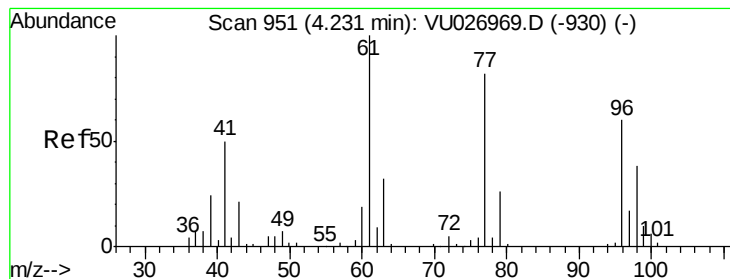
72 0.0 18.4 27.6#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0





#26

2,2-Dichloropropane

Concen: 0.354 ug/l

RT: 4.20 min Scan# 940

Delta R.T. -0.04 min

Lab File: VU027211.D

Acq: 27 Sep 2018 05:04

Instrument :

MSVOA_U

ClientSampleId :

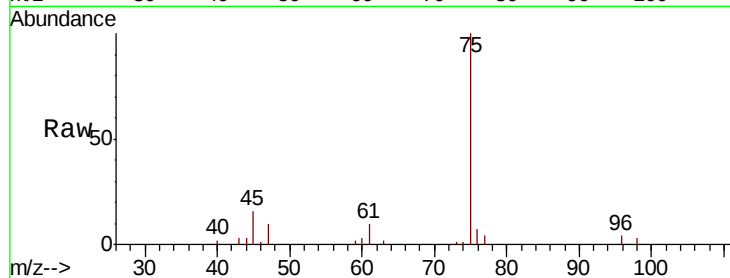
CMT-22-6-SEP18

Tgt Ion: 77 Resp: 977

Ion Ratio Lower Upper

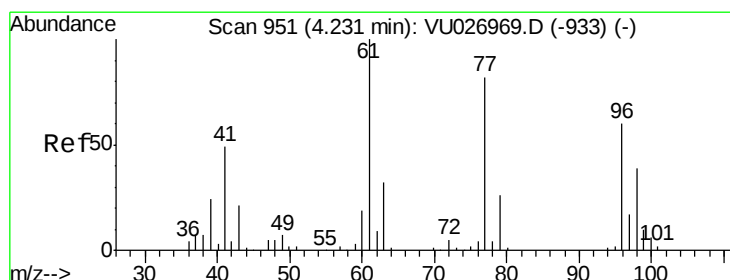
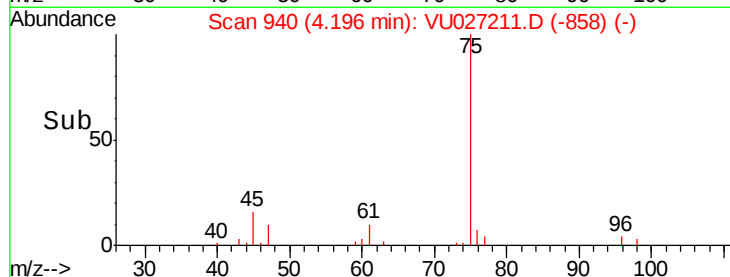
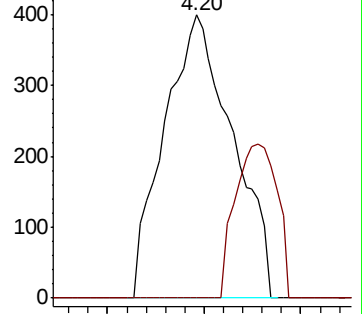
77 100

97 0.0 10.5 31.5#



Abundance Ion 76.90 (76.60 to 77.60): VU0

Ion 96.90 (96.60 to 97.60): VU0



#27

cis-1,2-Dichloroethene

Concen: 6.747 ug/l

RT: 4.23 min Scan# 951

Delta R.T. 0.00 min

Lab File: VU027211.D

Acq: 27 Sep 2018 05:04

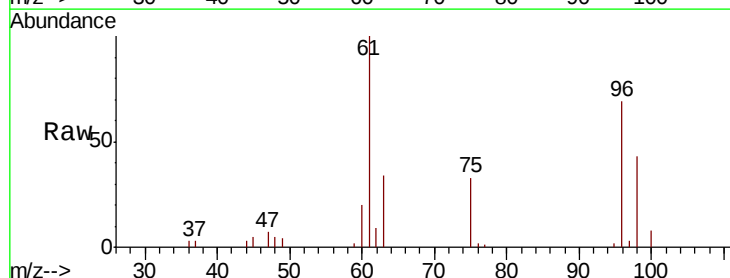
Tgt Ion: 96 Resp: 12053

Ion Ratio Lower Upper

96 100

61 149.2 0.0 337.2

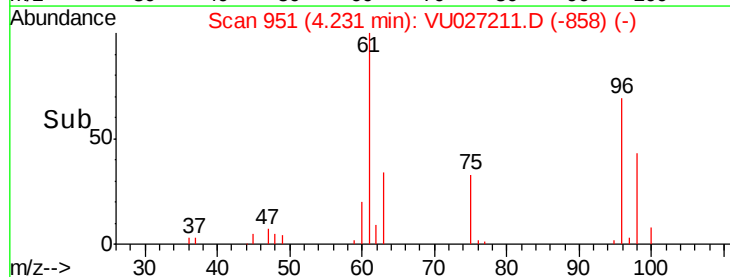
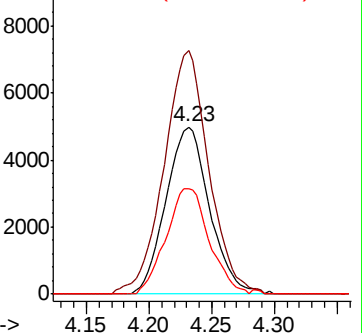
98 62.1 0.0 127.6

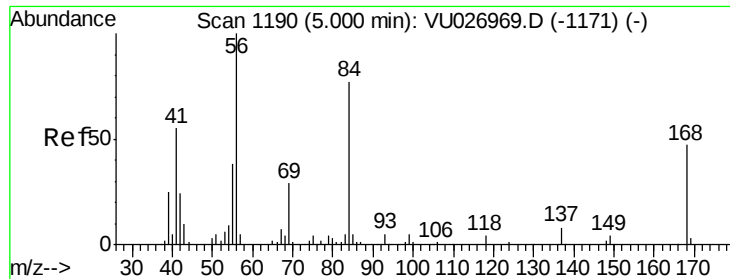


Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0

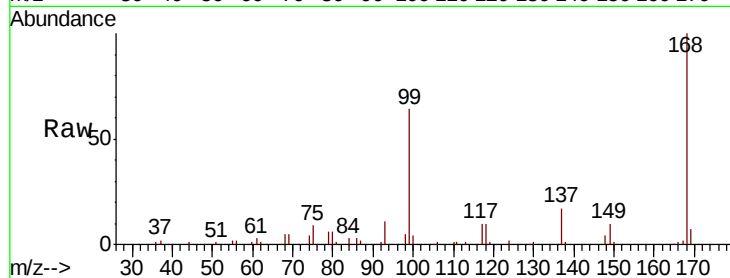




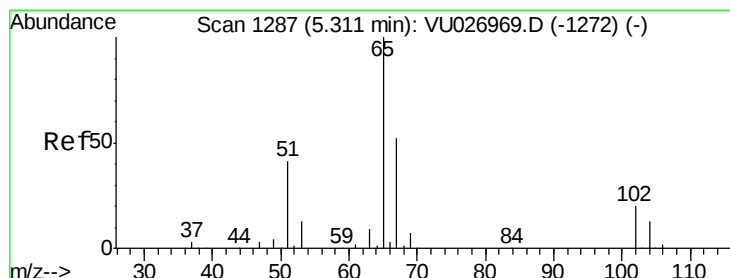
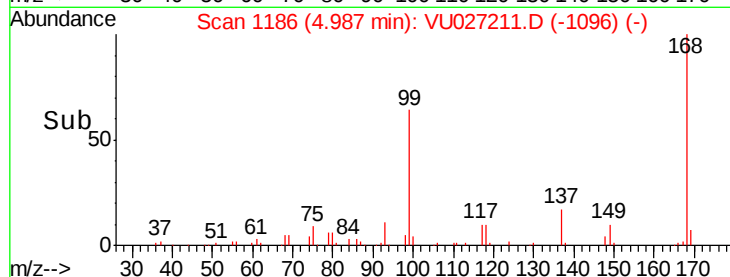
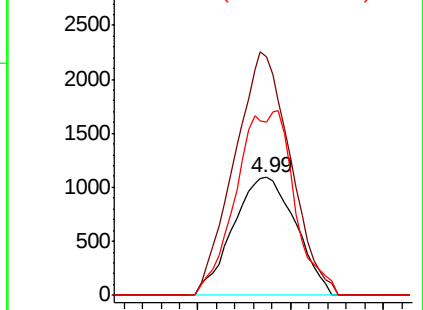
#31
Cyclohexane
Concen: 0.226 ug/l
RT: 4.99 min Scan# 1186
Delta R.T. -0.01 min
Lab File: VU027211.D
Acq: 27 Sep 2018 05:04

Instrument :
MSVOA_U
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CMT-22-6-SEP18

Tgt Ion: 56 Resp: 2568
Ion Ratio Lower Upper
56 100
69 202.8 23.0 34.4#
84 147.4 61.4 92.2#

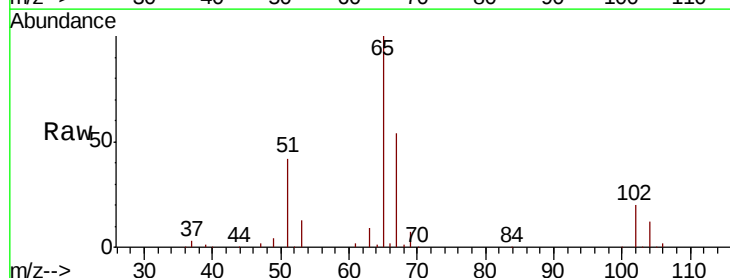


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

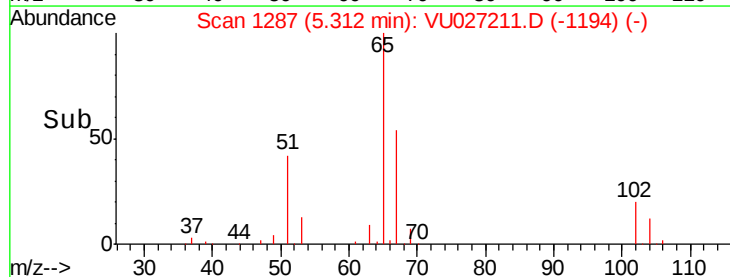
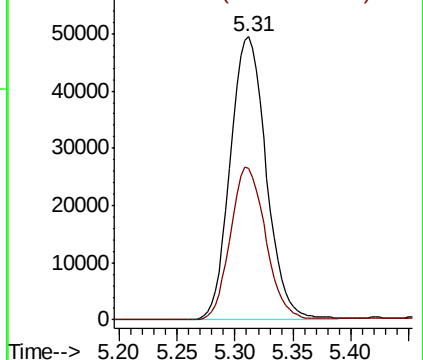


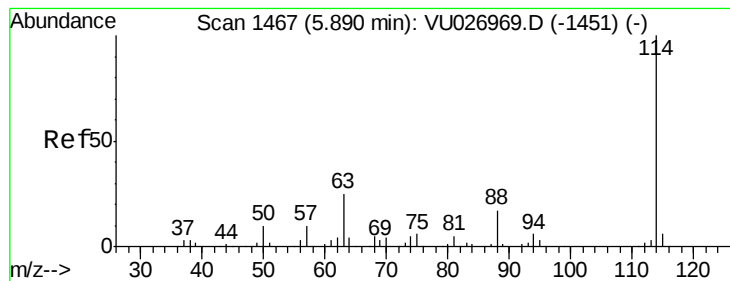
#33
1,2-Dichloroethane-d4
Concen: 49.367 ug/l
RT: 5.31 min Scan# 1287
Delta R.T. 0.00 min
Lab File: VU027211.D
Acq: 27 Sep 2018 05:04

Tgt Ion: 65 Resp: 106591
Ion Ratio Lower Upper
65 100
67 53.0 0.0 105.6



Abundance Ion 64.90 (64.60 to 65.60): VU0
Ion 66.90 (66.60 to 67.60): VU0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.89 min Scan# 1467

Delta R.T. 0.00 min

Lab File: VU027211.D

Acq: 27 Sep 2018 05:04

Instrument :

MSVOA_U

ClientSampleId :

CMT-22-6-SEP18

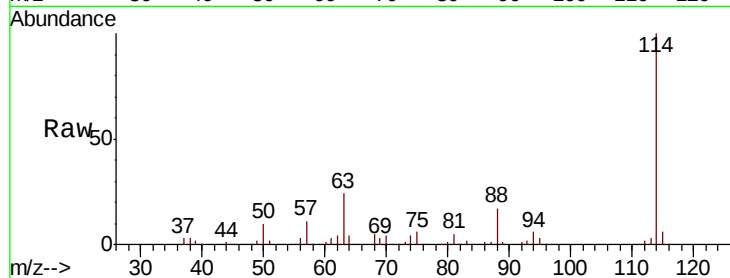
Tgt Ion:114 Resp: 181069

Ion Ratio Lower Upper

114 100

63 24.3 0.0 49.2

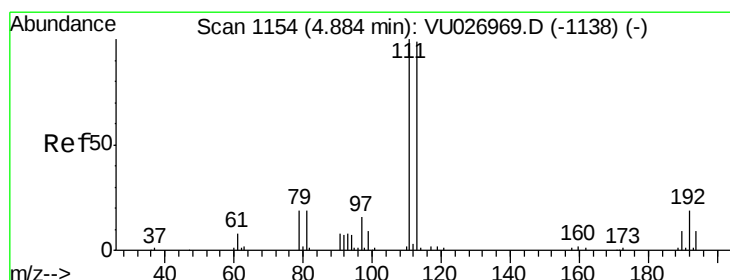
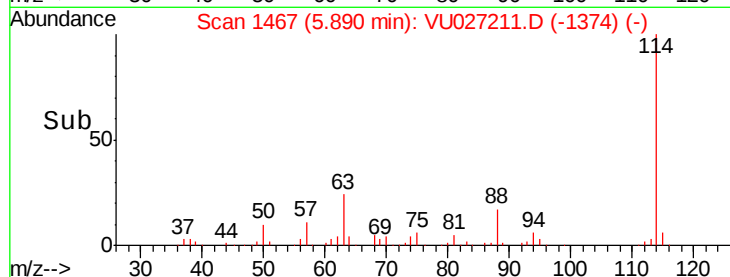
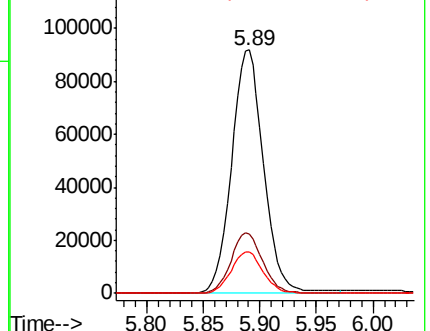
88 17.0 0.0 33.8



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: 47.967 ug/l

RT: 4.88 min Scan# 1154

Delta R.T. 0.00 min

Lab File: VU027211.D

Acq: 27 Sep 2018 05:04

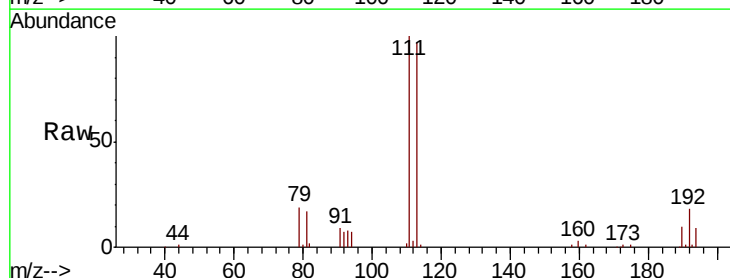
Tgt Ion:113 Resp: 75285

Ion Ratio Lower Upper

113 100

111 102.8 82.2 123.4

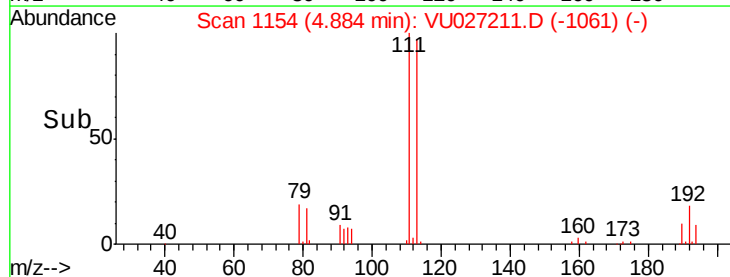
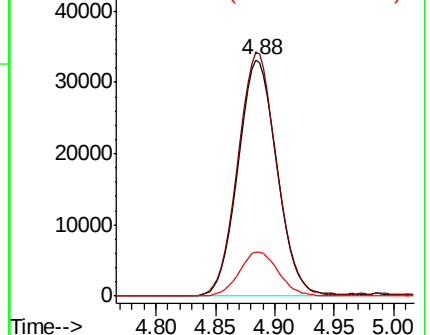
192 18.8 15.2 22.8

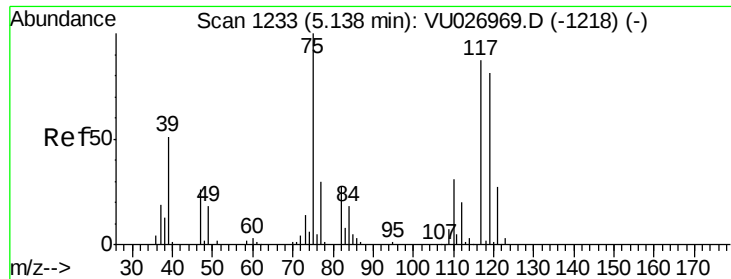


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

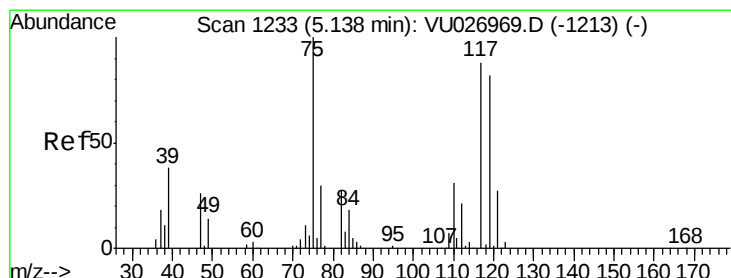
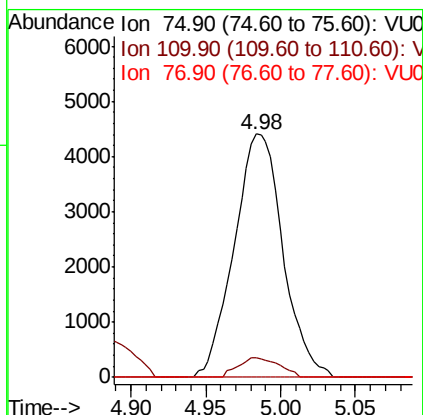
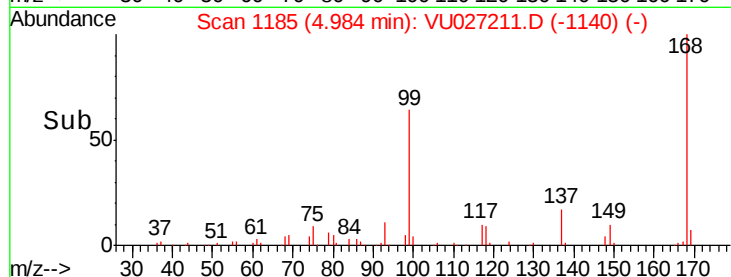
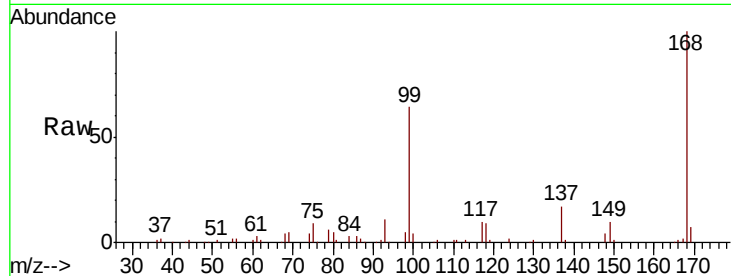




#36
 1,1-Dichloropropene
 Concen: 4.136 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU027211.D
 Acq: 27 Sep 2018 05:04

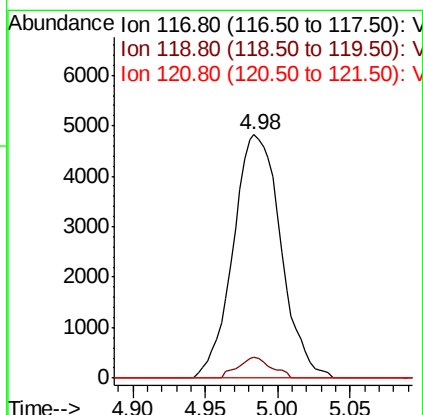
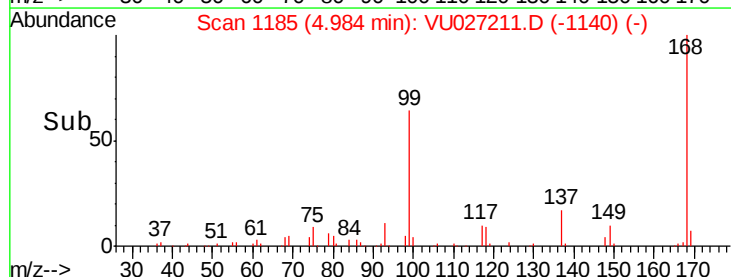
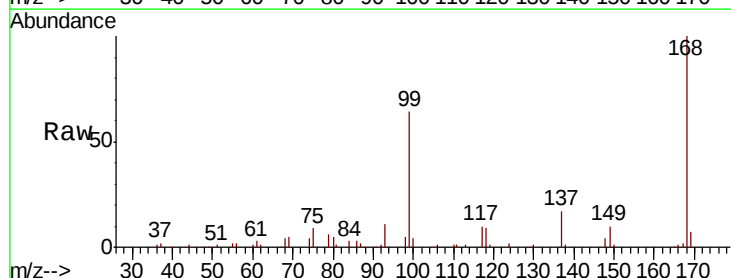
Instrument :
 MSVOA_U
 ClientSampleId :
 CMT-22-6-SEP18

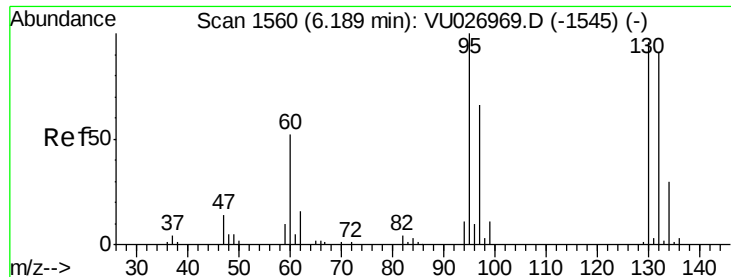
Tgt Ion: 75 Resp: 9995
 Ion Ratio Lower Upper
 75 100
 110 6.8 16.1 48.2#
 77 0.0 24.6 36.8#



#38
 Carbon Tetrachloride
 Concen: 4.796 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU027211.D
 Acq: 27 Sep 2018 05:04

Tgt Ion: 117 Resp: 11030
 Ion Ratio Lower Upper
 117 100
 119 8.5 74.4 111.6#
 121 0.0 24.2 36.4#





#44

Trichloroethene

Concen: 4.118 ug/l

RT: 6.19 min Scan# 1560

Delta R.T. 0.00 min

Lab File: VU027211.D

Acq: 27 Sep 2018 05:04

Instrument :

MSVOA_U

ClientSampleId :

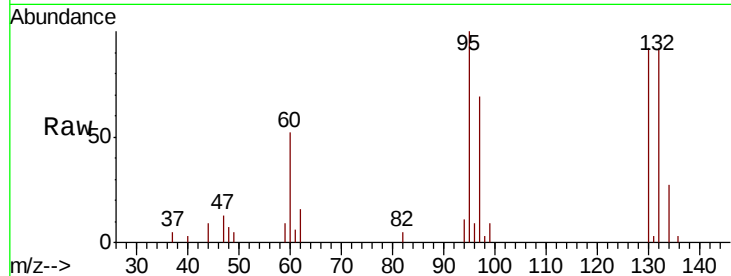
CMT-22-6-SEP18

Tgt Ion:130 Resp: 6440

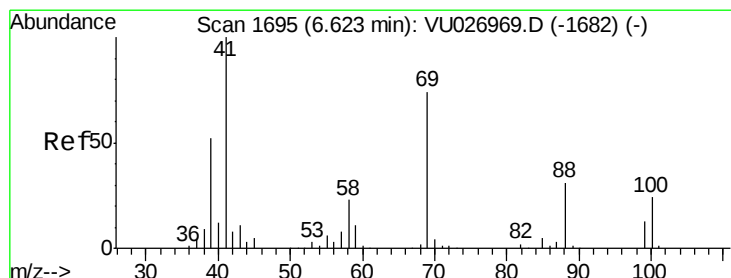
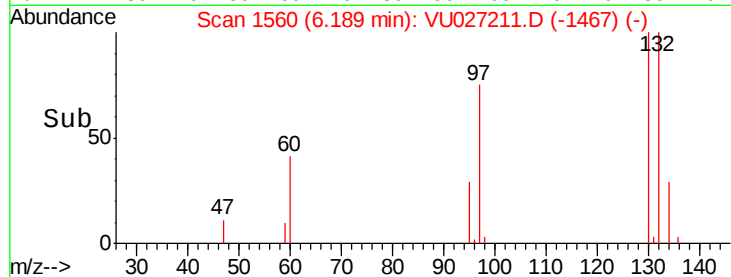
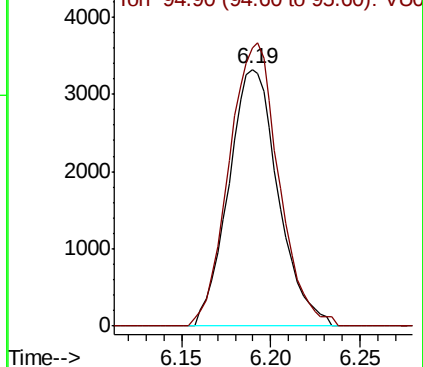
Ion Ratio Lower Upper

130 100

95 108.3 0.0 208.8



Abundance Ion 129.80 (129.50 to 130.50): VU026969.D (-1545) (-)



#48

Methyl methacrylate

Concen: 1.055 ug/l

RT: 6.83 min Scan# 1759

Delta R.T. 0.21 min

Lab File: VU027211.D

Acq: 27 Sep 2018 05:04

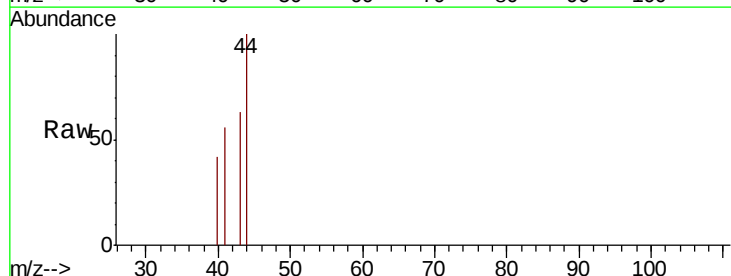
Tgt Ion: 41 Resp: 115

Ion Ratio Lower Upper

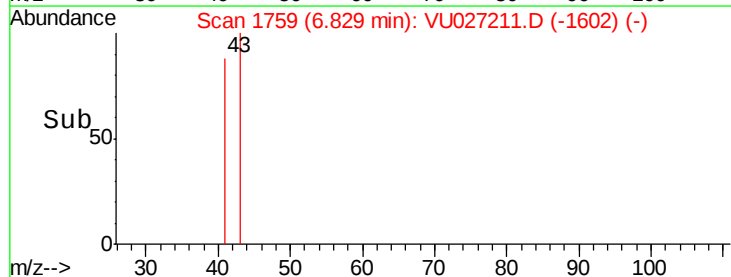
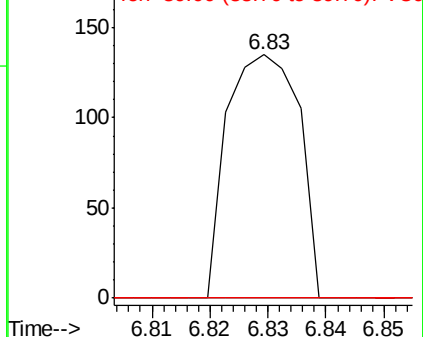
41 100

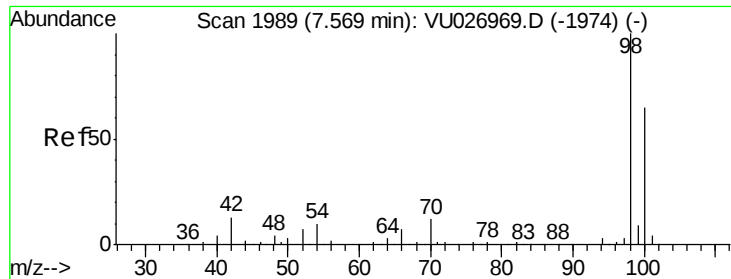
69 0.0 60.6 90.8#

39 0.0 42.8 64.2#



Abundance Ion 41.00 (40.70 to 41.70): VU026969.D (-1682) (-)





#50

Toluene-d8

Concen: 47.700 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VU027211.D

Acq: 27 Sep 2018 05:04

Instrument :

MSVOA_U

ClientSampleId :

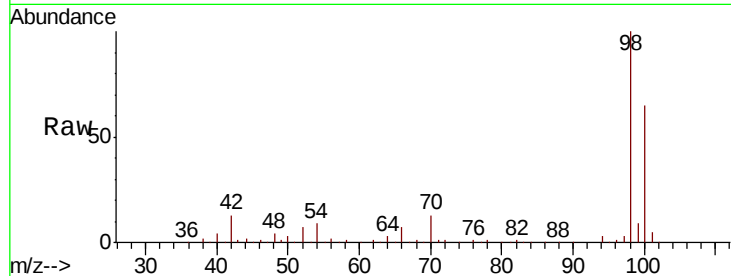
CMT-22-6-SEP18

Tgt Ion: 98 Resp: 285317

Ion Ratio Lower Upper

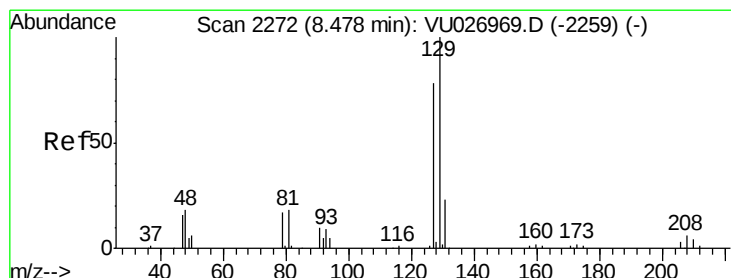
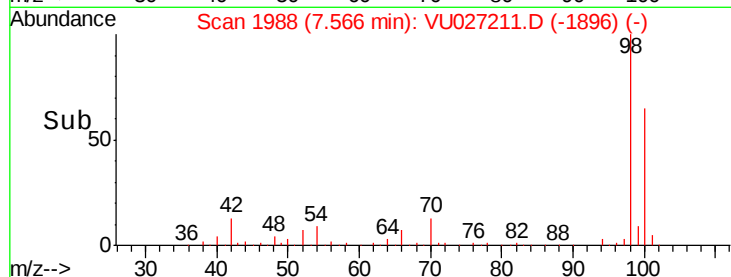
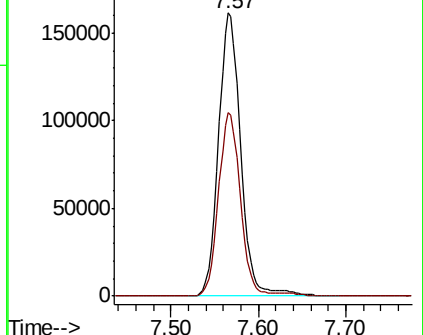
98 100

100 63.2 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VU026969.D (-1974) (-)

Ion 100.00 (99.70 to 100.70): VU027211.D (-1986) (-)



#60

Dibromochloromethane

Concen: 0.631 ug/l

RT: 8.23 min Scan# 2195

Delta R.T. -0.25 min

Lab File: VU027211.D

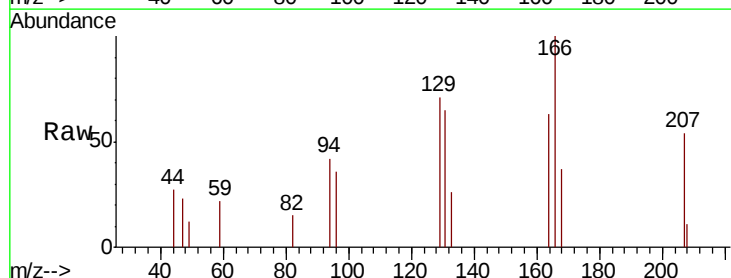
Acq: 27 Sep 2018 05:04

Tgt Ion: 129 Resp: 1104

Ion Ratio Lower Upper

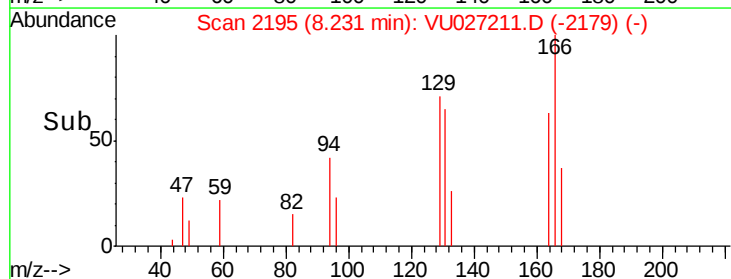
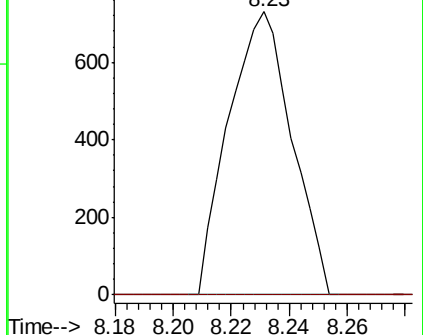
129 100

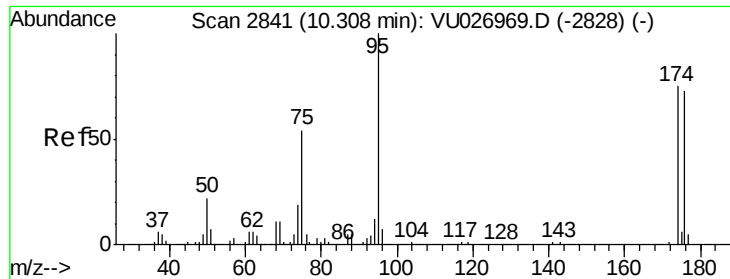
127 0.0 38.1 114.5#



Abundance Ion 128.80 (128.50 to 129.50): VU026969.D (-2259) (-)

Ion 126.80 (126.50 to 127.50): VU027211.D (-2179) (-)

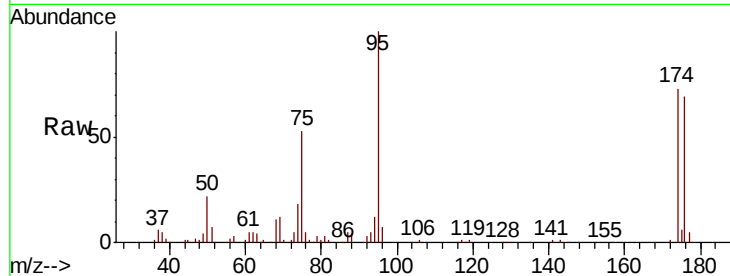




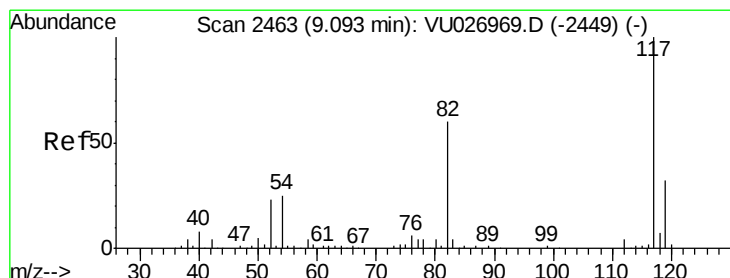
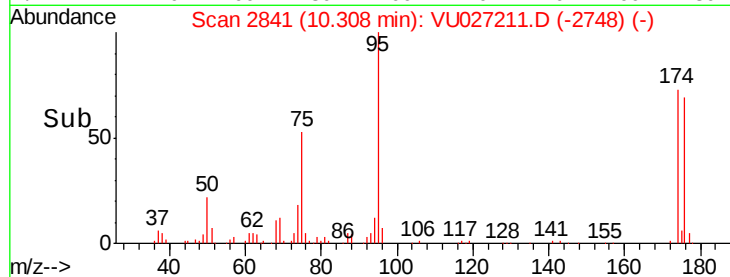
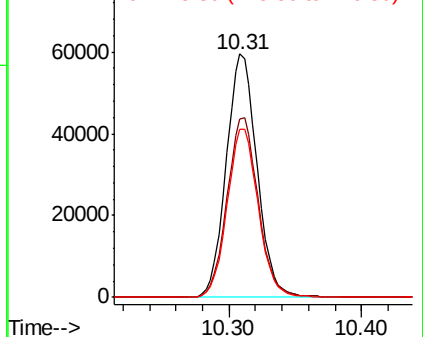
#62
 4-Bromofluorobenzene
 Concen: 46.654 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. 0.00 min
 Lab File: VU027211.D
 Acq: 27 Sep 2018 05:04

Instrument :
 MSVOA_U
 ClientSampleId :
 CMT-22-6-SEP18

Tgt Ion: 95 Resp: 95754
 Ion Ratio Lower Upper
 95 100
 174 74.7 0.0 150.2
 176 70.0 0.0 145.2

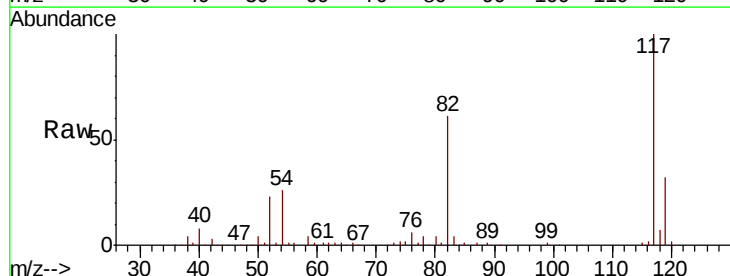


Abundance Ion 94.90 (94.60 to 95.60): VU026969.D (-2828) (-)
 Ion 173.80 (173.50 to 174.50): VU026969.D (-2828) (-)
 Ion 175.80 (175.50 to 176.50): VU026969.D (-2828) (-)

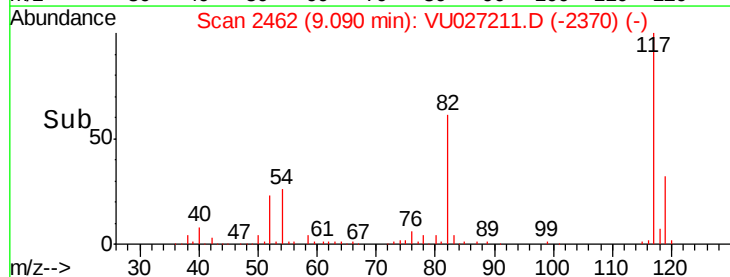
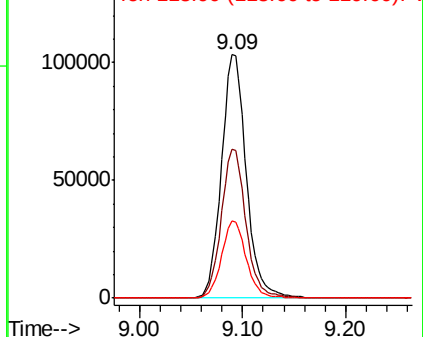


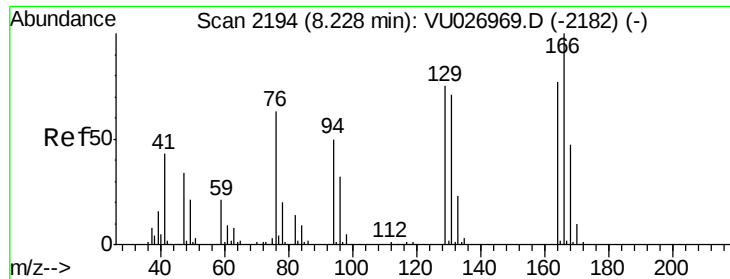
#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 9.09 min Scan# 2462
 Delta R.T. -0.00 min
 Lab File: VU027211.D
 Acq: 27 Sep 2018 05:04

Tgt Ion: 117 Resp: 173183
 Ion Ratio Lower Upper
 117 100
 82 61.1 48.0 72.0
 119 31.6 25.8 38.8



Abundance Ion 116.90 (116.60 to 117.60): VU026969.D (-2449) (-)
 Ion 82.00 (81.70 to 82.70): VU026969.D (-2449) (-)
 Ion 118.90 (118.60 to 119.60): VU026969.D (-2449) (-)





#64

Tetrachloroethene

Concen: 0.868 ug/l

RT: 8.23 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VU027211.D

Acq: 27 Sep 2018 05:04

Instrument :

MSVOA_U

ClientSampleId :

CMT-22-6-SEP18

Tgt Ion:164 Resp: 1158

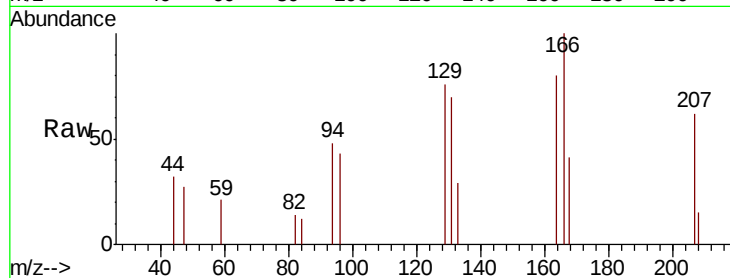
Ion Ratio Lower Upper

164 100

166 124.3 104.4 156.6

129 94.1 78.7 118.1

131 87.1 73.9 110.9

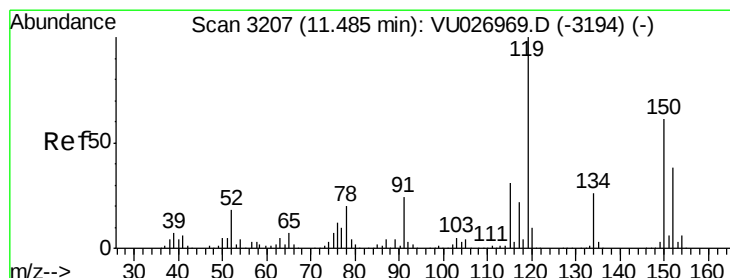
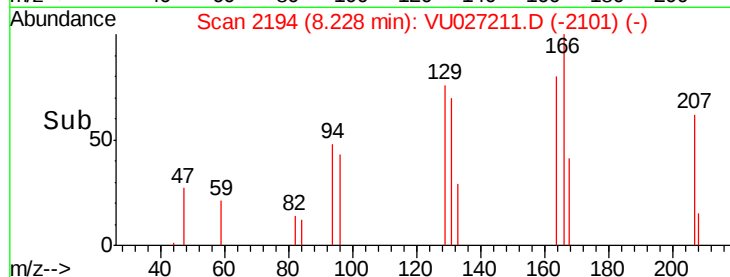
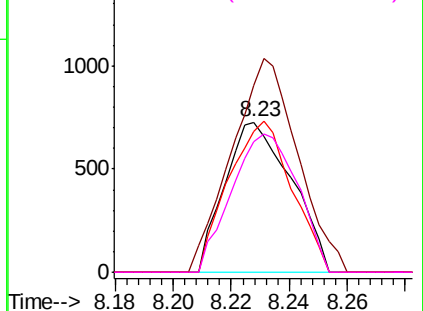


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU027211.D

Acq: 27 Sep 2018 05:04

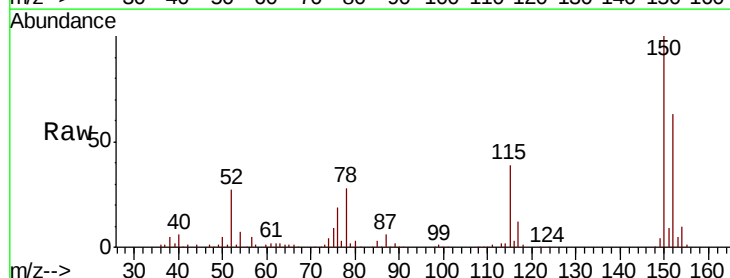
Tgt Ion:152 Resp: 82095

Ion Ratio Lower Upper

152 100

115 62.0 44.9 134.5

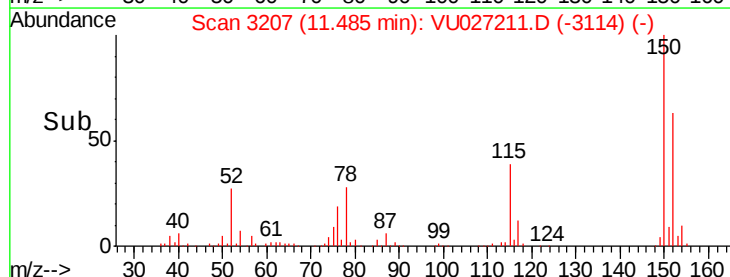
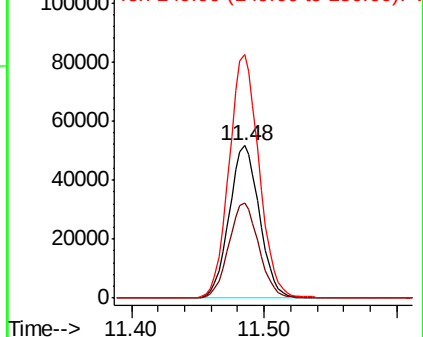
150 157.8 0.0 355.8

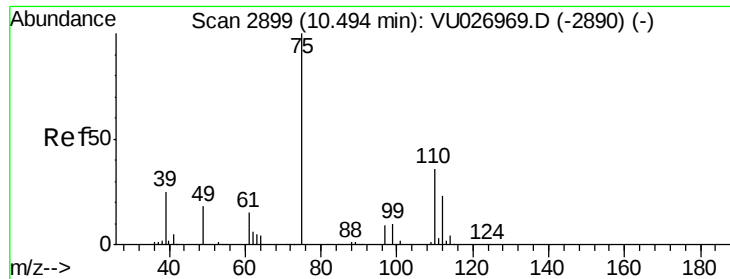


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 20.633 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU027211.D

Acq: 27 Sep 2018 05:04

Instrument :

MSVOA_U

ClientSampleId :

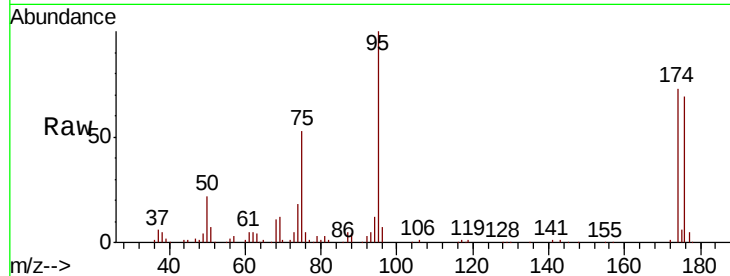
CMT-22-6-SEP18

Tgt Ion: 75 Resp: 51458

Ion Ratio Lower Upper

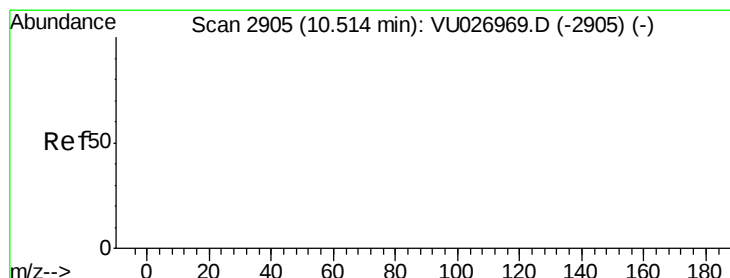
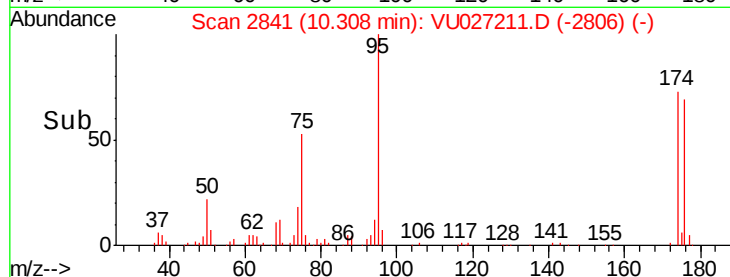
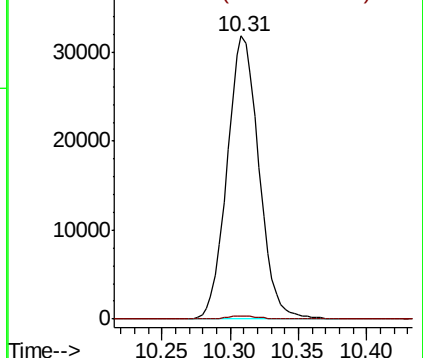
75 100

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: 66.028 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.21 min

Lab File: VU027211.D

Acq: 27 Sep 2018 05:04

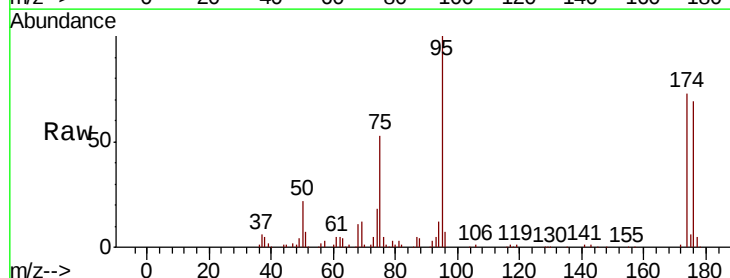
Tgt Ion: 75 Resp: 51458

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

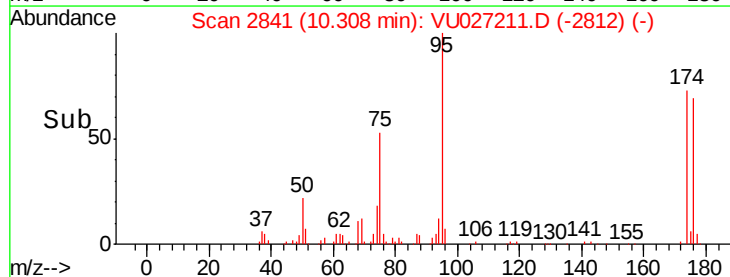
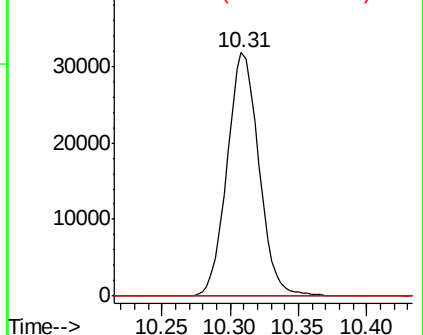
89 0.0 0.0 0.0

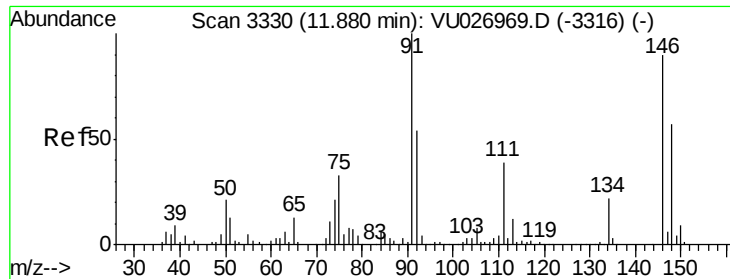


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

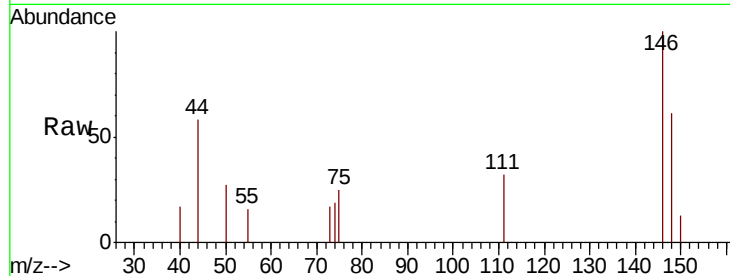




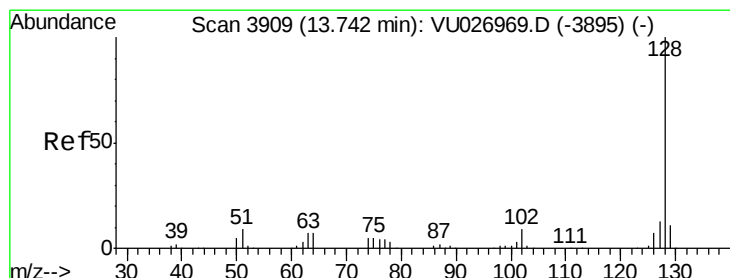
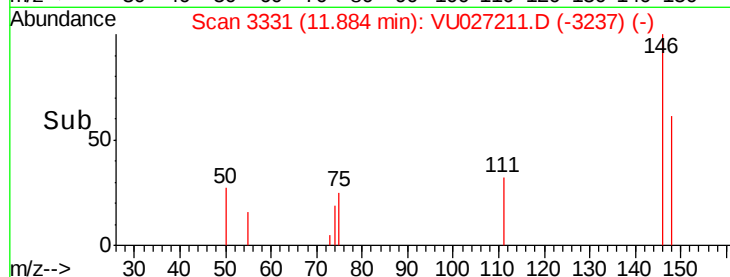
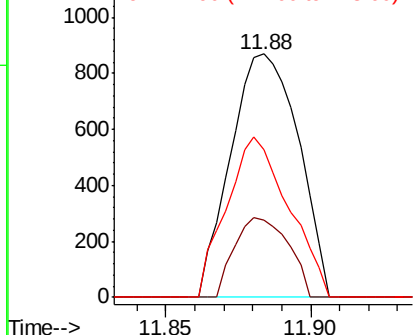
#91
 1,2-Dichlorobenzene
 Concen: 0.468 ug/l
 RT: 11.88 min Scan# 3331
 Delta R.T. 0.00 min
 Lab File: VU027211.D
 Acq: 27 Sep 2018 05:04

Instrument :
 MSVOA_U
 ClientSampleId :
 CMT-22-6-SEP18

Tgt Ion:146 Resp: 1411
 Ion Ratio Lower Upper
 146 100
 111 25.9 21.8 65.3
 148 60.2 31.9 95.7

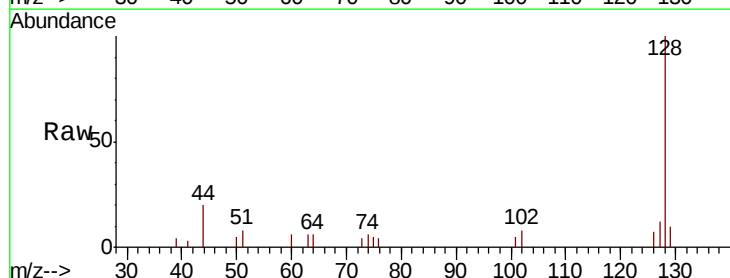


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V



#95
 Naphthalene
 Concen: 2.498 ug/l
 RT: 13.75 min Scan# 3911
 Delta R.T. 0.01 min
 Lab File: VU027211.D
 Acq: 27 Sep 2018 05:04

Tgt Ion:128 Resp: 5690
 Ion Ratio Lower Upper
 128 100
 127 12.1 10.6 15.8
 129 9.2 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

