

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071018\
 Data File : VU025286.D
 Acq On : 10 Jul 2018 14:02
 Operator : MD/SY
 Sample : J3905-01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BR-1-070518

Quant Time: Jul 11 02:00:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U070918W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 10 09:34:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	208437	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	309877	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	287700	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	145871	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	154942	47.85	ug/l	0.00
Spiked Amount			Recovery	=	95.70%	
35) Dibromofluoromethane	4.89	113	122207	46.75	ug/l	0.00
Spiked Amount			Recovery	=	93.50%	
50) Toluene-d8	7.57	98	448185	50.07	ug/l	0.00
Spiked Amount			Recovery	=	100.14%	
62) 4-Bromofluorobenzene	10.31	95	163865	45.47	ug/l	0.00
Spiked Amount			Recovery	=	90.94%	

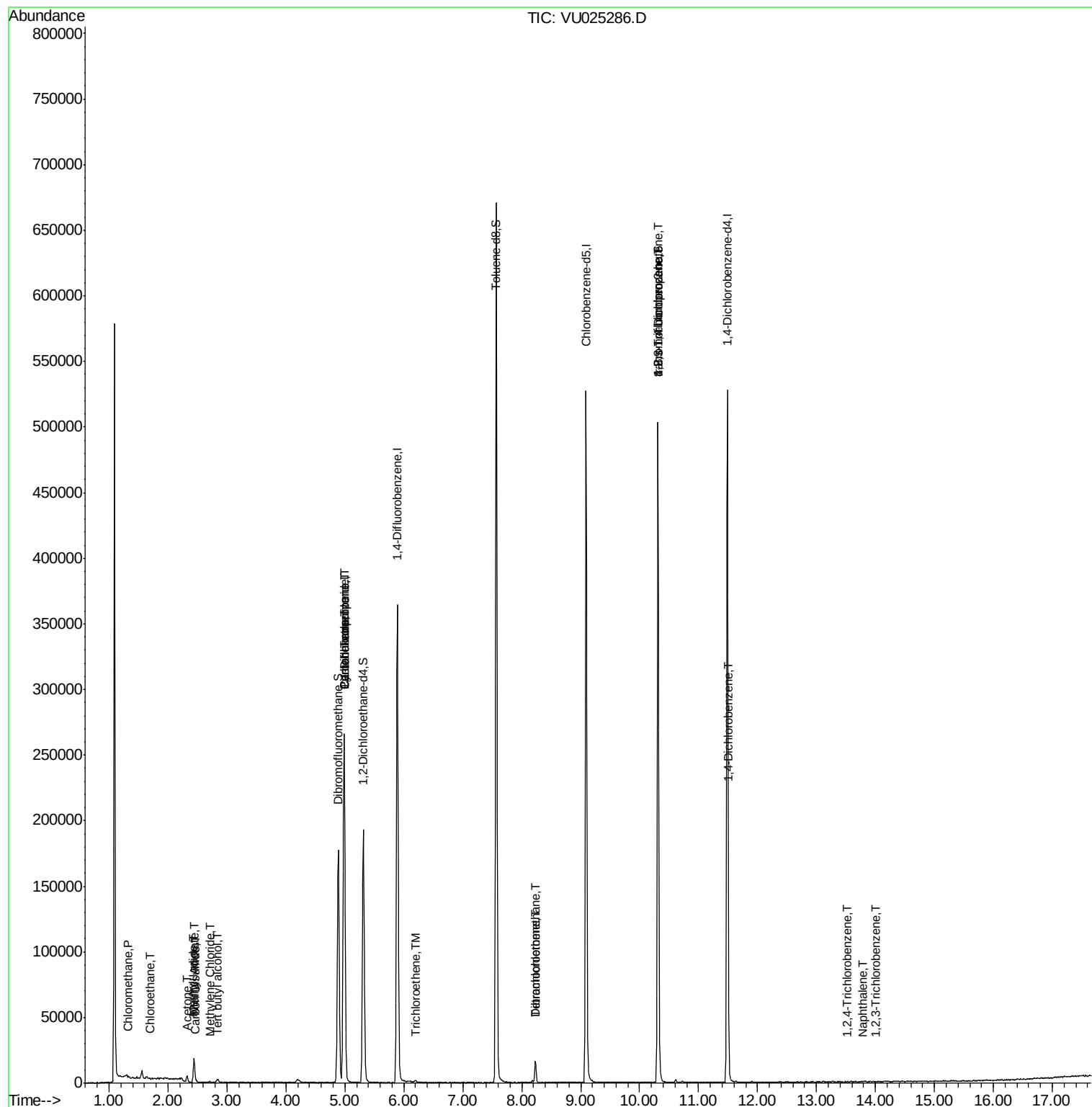
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	437	0.76	ug/l	# 60
5) Bromomethane	1.64	94	530	Below Cal		# 76
6) Chloroethane	1.69	64	72	0.34	ug/l	# 43
10) Methyl Iodide	2.43	142	324	7.81	ug/l	# 54
11) Tert butyl alcohol	2.84	59	1684	2.38	ug/l	# 79
16) Acetone	2.32	43	5350	8.04	ug/l	99
17) Carbon Disulfide	2.48	76	434	2.00	ug/l	# 74
18) Methyl Acetate	2.44	43	4809	1.45	ug/l	# 52
20) Methylene Chloride	2.70	84	494	0.89	ug/l	# 66
31) Cyclohexane	4.98	56	3842	1.67	ug/l	# 2
36) 1,1-Dichloropropene	4.99	75	15180	4.41	ug/l	# 50
38) Carbon Tetrachloride	4.99	117	20087	5.42	ug/l	# 15
44) Trichloroethene	6.19	130	717	0.25	ug/l	51
60) Dibromochloromethane	8.23	129	3883	1.37	ug/l	# 11
64) Tetrachloroethene	8.23	164	3945	1.50	ug/l	94
76) 1,2,3-Trichloropropane	10.31	75	86848	29.21	ug/l	# 36
81) trans-1,4-Dichloro-2-buten	10.31	75	86848	74.73	ug/l	# 100
88) 1,4-Dichlorobenzene	11.51	146	153	1.52	ug/l	# 25
93) 1,2,4-Trichlorobenzene	13.53	180	99	3.31	ug/l	# 13
95) Naphthalene	13.78	128	502	2.46	ug/l	# 69
96) 1,2,3-Trichlorobenzene	14.00	180	46	2.54	ug/l	# 12

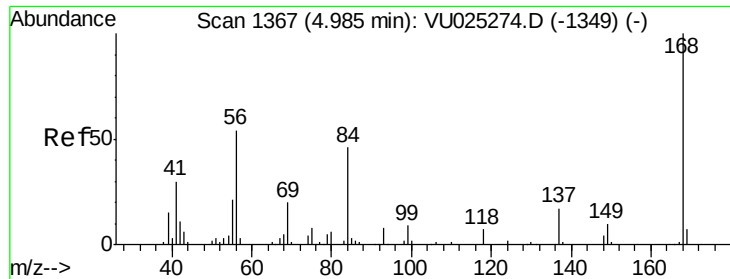
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jul 10 09:34:16 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: VU025286.D

Acq: 10 Jul 2018 14:02

Instrument :

MSVOA_U

ClientSampleId :

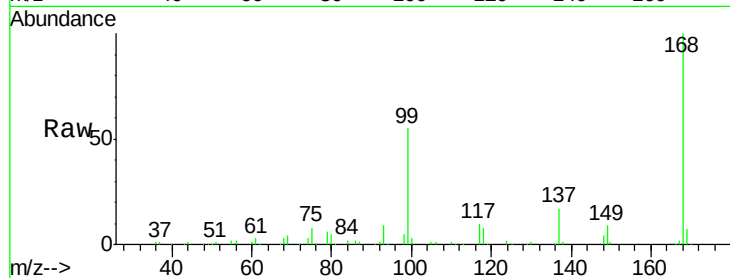
BR-1-070518

Tot Ion:168 Resp: 208437

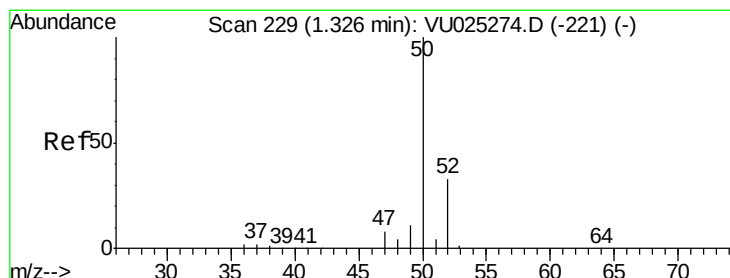
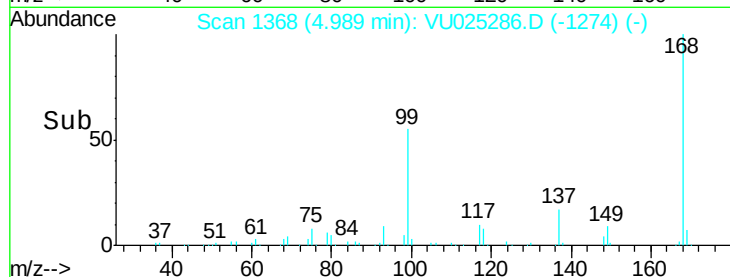
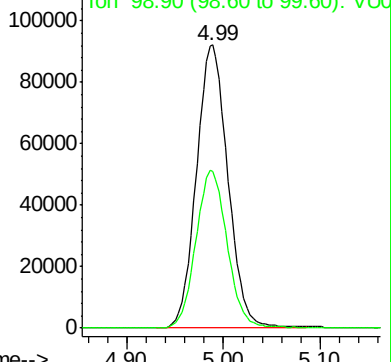
Ion Ratio Lower Upper

168 100

99 55.5 42.8 64.2



Abundance Ion 167.90 (167.60 to 168.60): VU025274.D (-1349) (-)



#3

Chloromethane

Concen: 0.76 ug/l

RT: 1.33 min Scan# 229

Delta R.T. 0.00 min

Lab File: VU025286.D

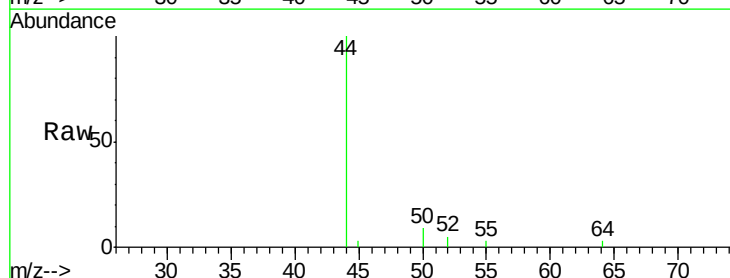
Acq: 10 Jul 2018 14:02

Tgt Ion: 50 Resp: 437

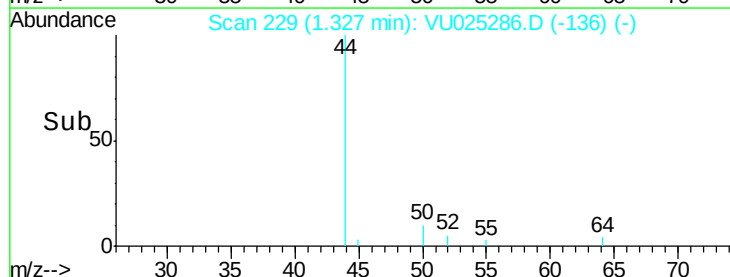
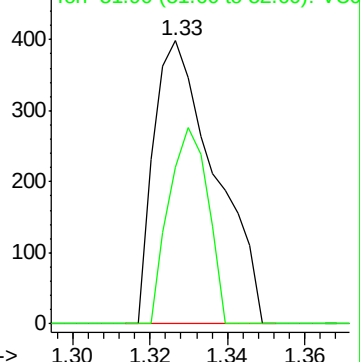
Ion Ratio Lower Upper

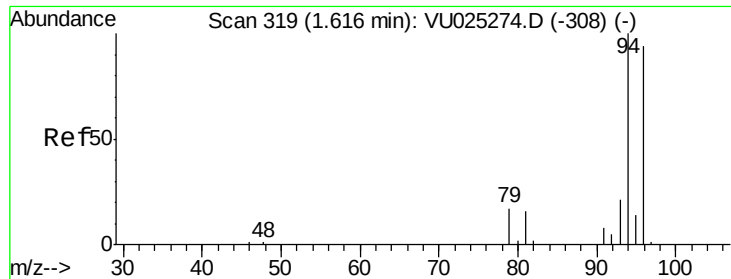
50 100

52 55.5 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VU025274.D (-221) (-)





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 327

Delta R.T. 0.03 min

Lab File: VU025286.D

Acq: 10 Jul 2018 14:02

Instrument :

MSVOA_U

ClientSampleId :

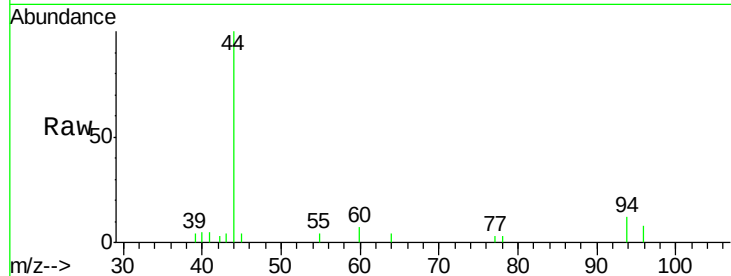
BR-1-070518

Tot Ion: 94 Resp: 530

Ion Ratio Lower Upper

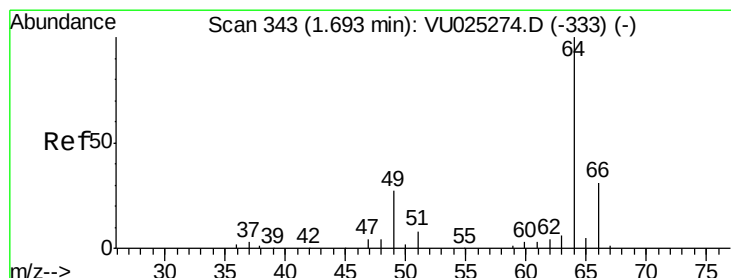
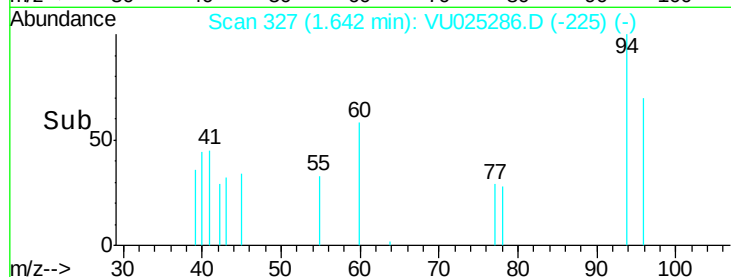
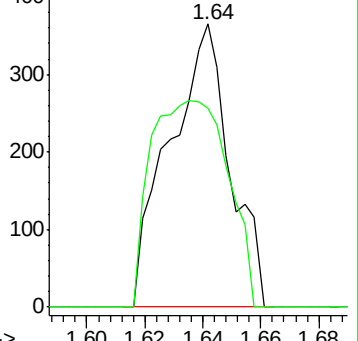
94 100

96 70.4 75.0 112.4#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: 0.34 ug/l

RT: 1.69 min Scan# 341

Delta R.T. -0.01 min

Lab File: VU025286.D

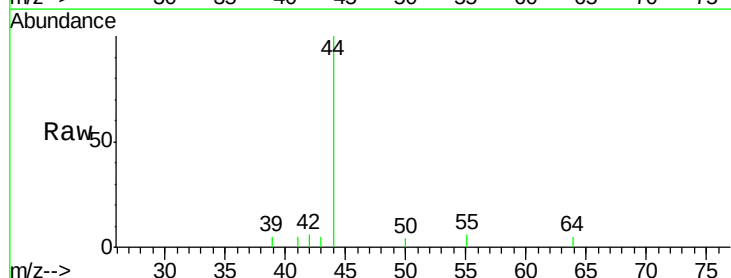
Acq: 10 Jul 2018 14:02

Tgt Ion: 64 Resp: 72

Ion Ratio Lower Upper

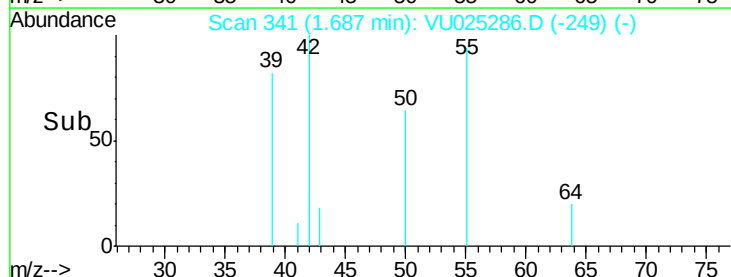
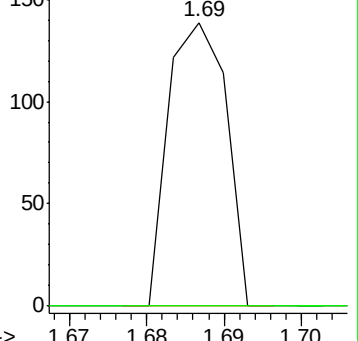
64 100

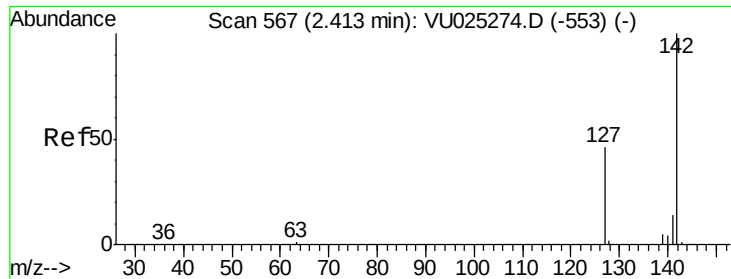
66 0.0 25.0 37.4#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0

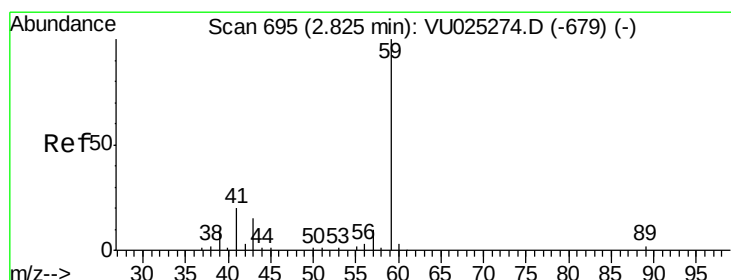
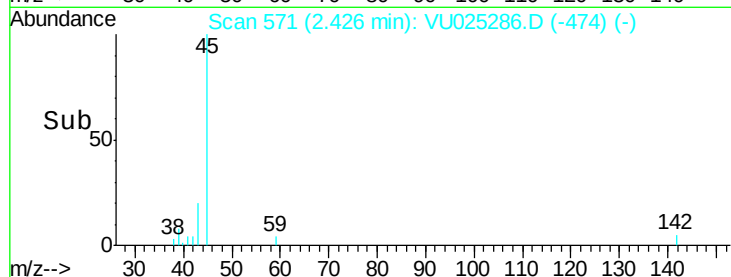
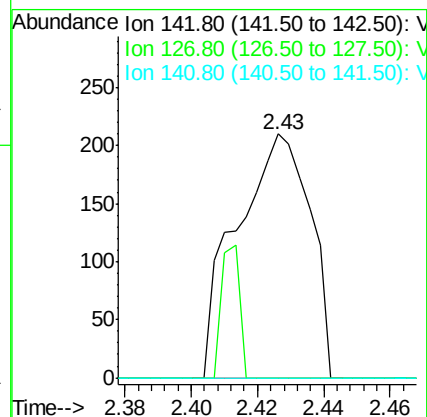
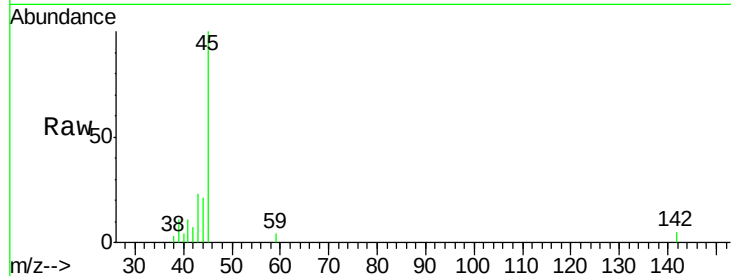




#10
Methvl Iodide
Concen: 7.81 ug/l
RT: 2.43 min Scan# 571
Delta R.T. 0.01 min
Lab File: VU025286.D
Acq: 10 Jul 2018 14:02

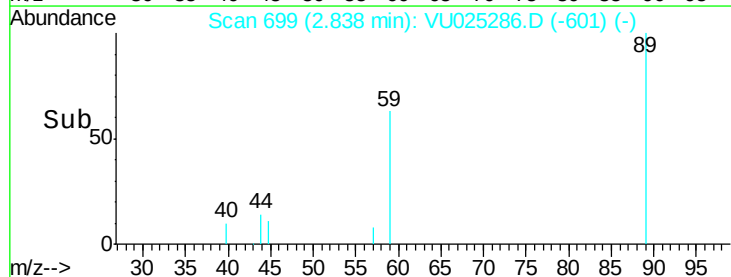
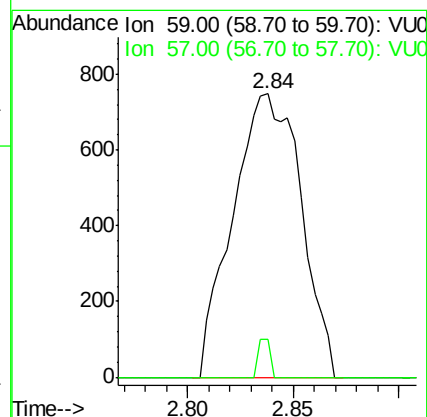
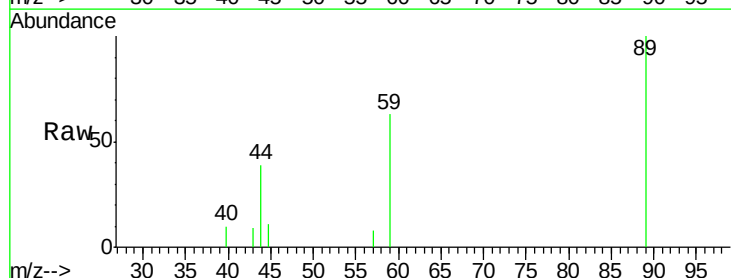
Instrument :
MSVOA_U
ClientSampleId :
BR-1-070518

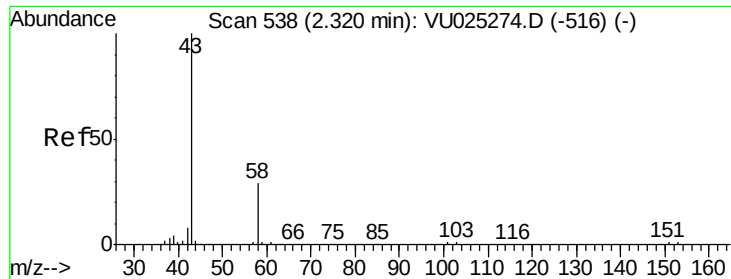
Tot Ion:142 Resp: 324
Ion Ratio Lower Upper
142 100
127 13.3 36.5 54.7#
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 2.38 ug/l
RT: 2.84 min Scan# 699
Delta R.T. 0.01 min
Lab File: VU025286.D
Acq: 10 Jul 2018 14:02

Tgt Ion: 59 Resp: 1684
Ion Ratio Lower Upper
59 100
57 2.3 8.2 12.2#





#16

Acetone

Concen: 8.04 ug/l

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU025286.D

Acq: 10 Jul 2018 14:02

Instrument :

MSVOA_U

ClientSampleId :

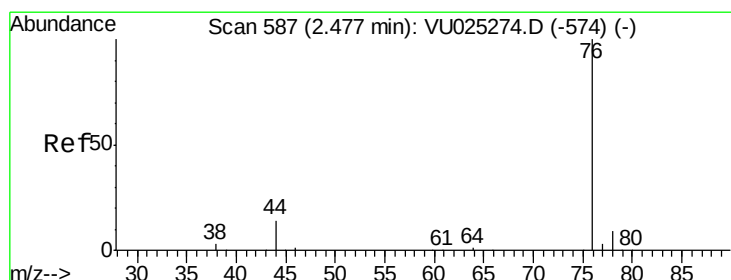
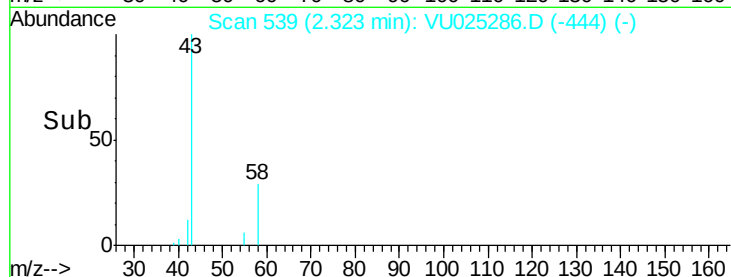
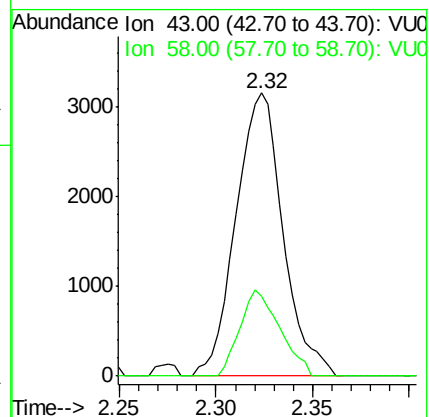
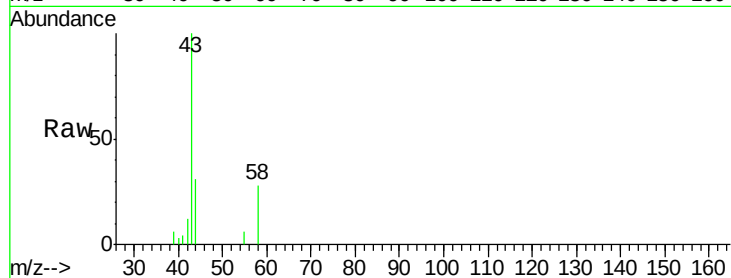
BR-1-070518

Tot Ion: 43 Resp: 5350

Ion Ratio Lower Upper

43 100

58 28.2 23.1 34.7



#17

Carbon Disulfide

Concen: 2.00 ug/l

RT: 2.48 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU025286.D

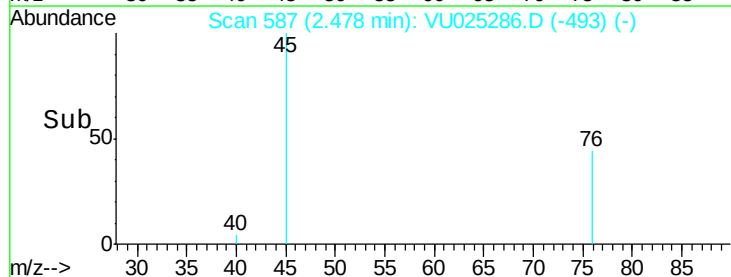
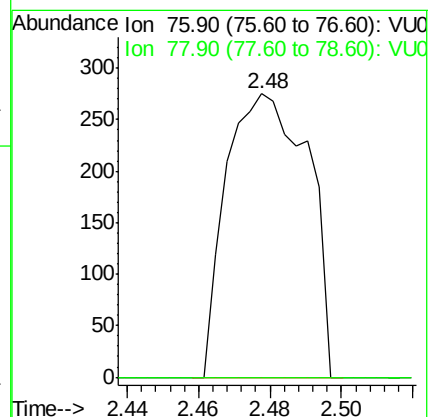
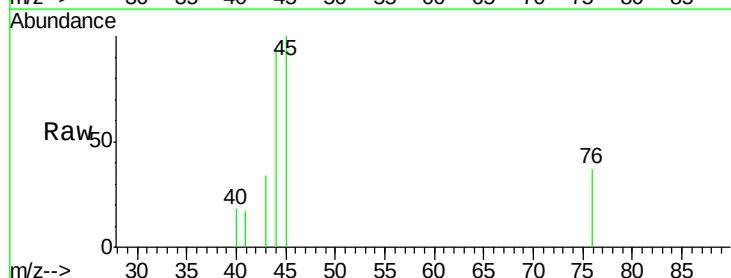
Acq: 10 Jul 2018 14:02

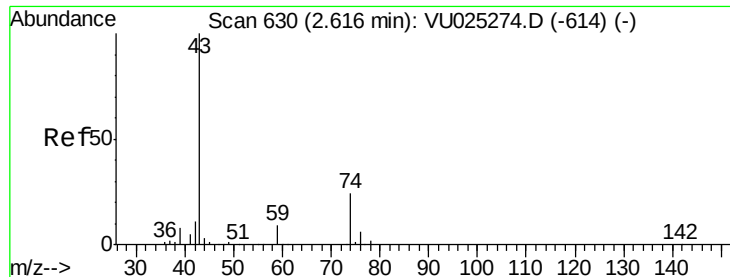
Tgt Ion: 76 Resp: 434

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.2#





#18

Methyl Acetate

Concen: 1.45 ug/l

RT: 2.44 min Scan# 576

Delta R.T. -0.17 min

Lab File: VU025286.D

Acq: 10 Jul 2018 14:02

Instrument :

MSVOA_U

ClientSampled :

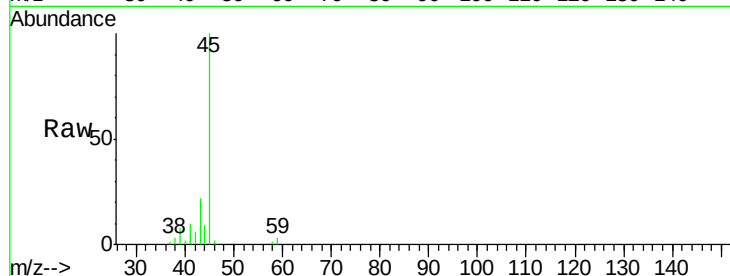
BR-1-070518

Tot Ion: 43 Resp: 4809

Ion Ratio Lower Upper

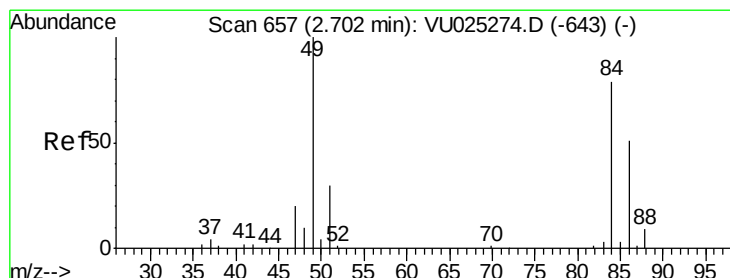
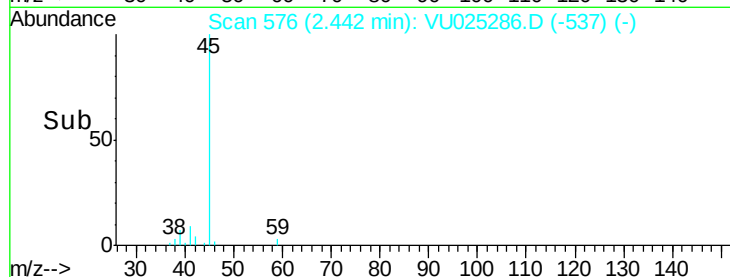
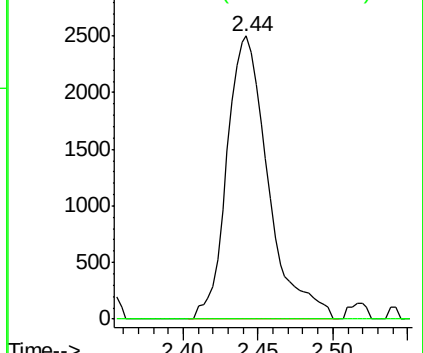
43 100

74 0.0 18.5 27.7#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0



#20

Methylene Chloride

Concen: 0.89 ug/l

RT: 2.70 min Scan# 657

Delta R.T. 0.00 min

Lab File: VU025286.D

Acq: 10 Jul 2018 14:02

Tgt Ion: 84 Resp: 494

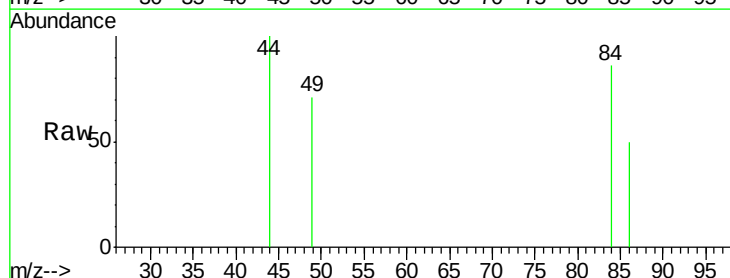
Ion Ratio Lower Upper

84 100

49 82.8 101.8 152.6#

51 0.0 30.8 46.2#

86 58.9 51.9 77.9

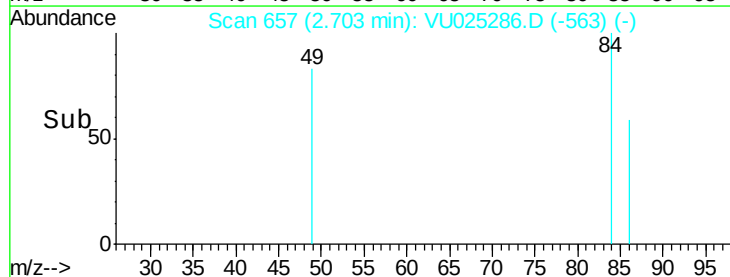
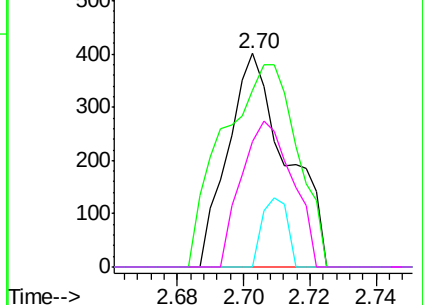


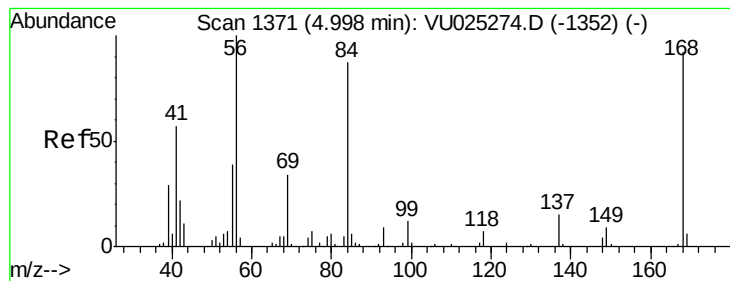
Abundance Ion 83.90 (83.60 to 84.60): VU0

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





#31

Cyclohexane

Concen: 1.67 ug/l

RT: 4.98 min Scan# 1366

Delta R.T. -0.02 min

Lab File: VU025286.D

Acq: 10 Jul 2018 14:02

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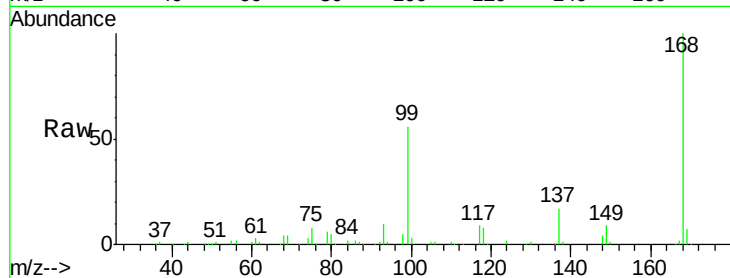
Tot Ion: 56 Resp: 3842

Ion Ratio Lower Upper

56 100

69 184.5 26.8 40.2#

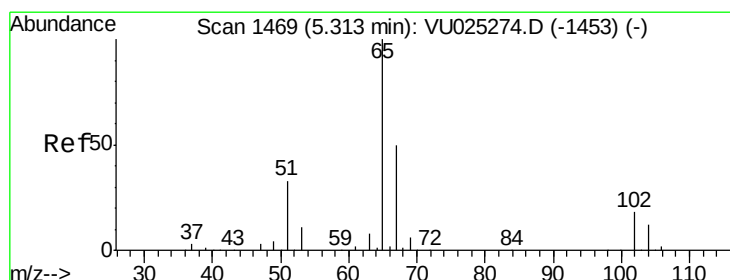
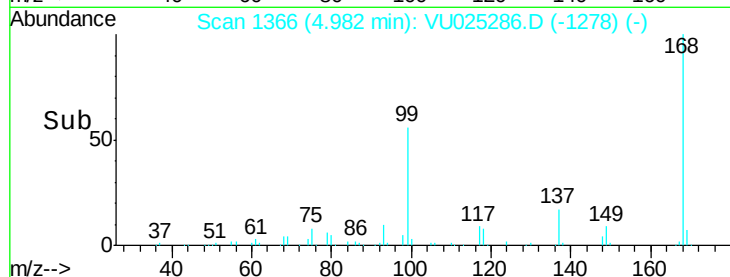
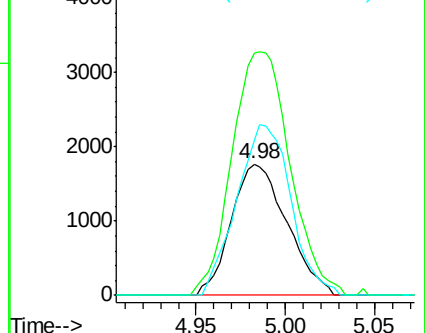
84 118.7 69.7 104.5#



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: 47.85 ug/l

RT: 5.31 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VU025286.D

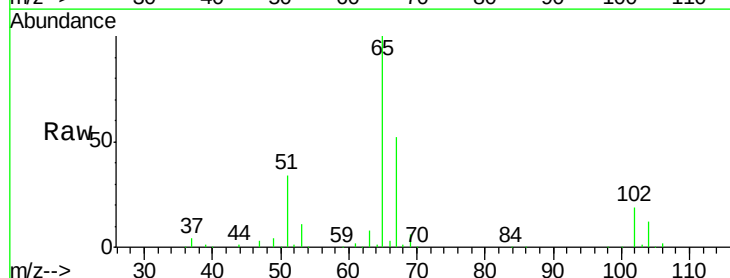
Acq: 10 Jul 2018 14:02

Tgt Ion: 65 Resp: 154942

Ion Ratio Lower Upper

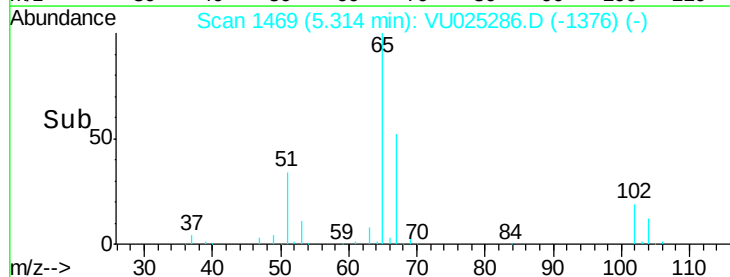
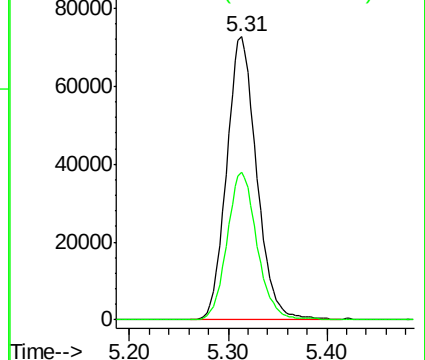
65 100

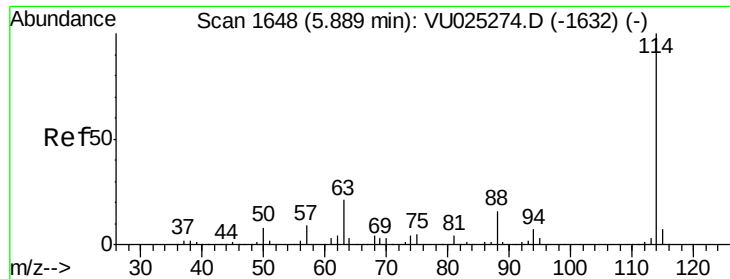
67 52.0 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.89 min Scan# 1648

Delta R.T. 0.00 min

Lab File: VU025286.D

Acq: 10 Jul 2018 14:02

Instrument :

MSVOA_U

ClientSampleId :

BR-1-070518

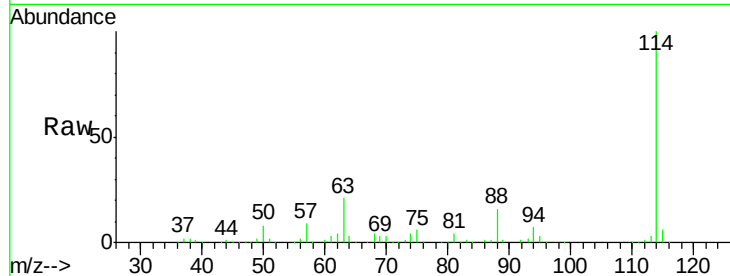
Tot Ion:114 Resp: 309877

Ion Ratio Lower Upper

114 100

63 20.8 0.0 41.6

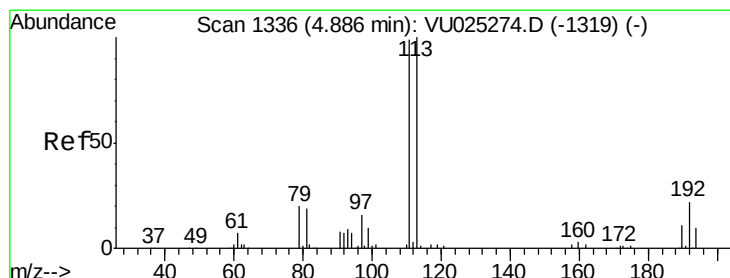
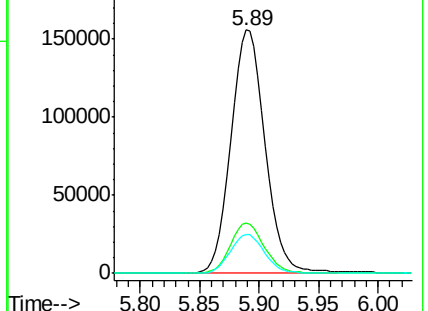
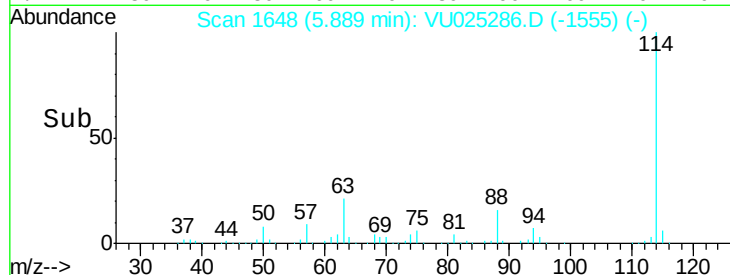
88 16.2 0.0 32.4



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: 46.75 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU025286.D

Acq: 10 Jul 2018 14:02

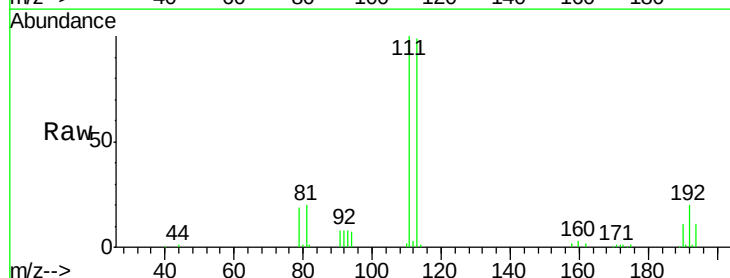
Tgt Ion:113 Resp: 122207

Ion Ratio Lower Upper

113 100

111 101.8 81.7 122.5

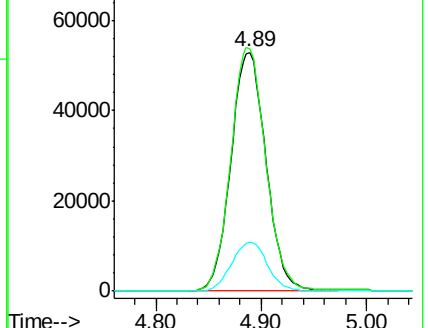
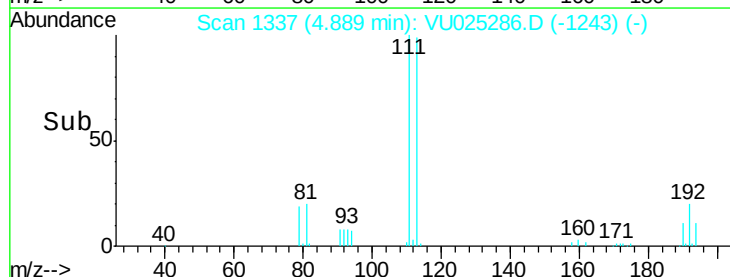
192 20.9 17.1 25.7

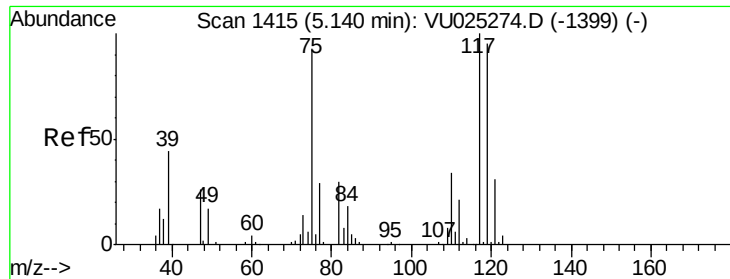


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

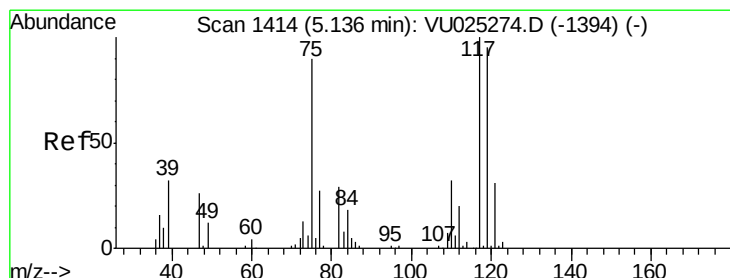
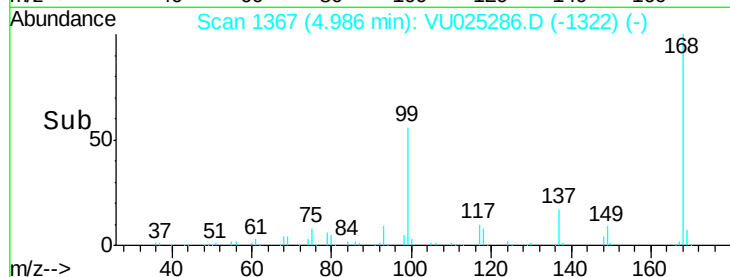
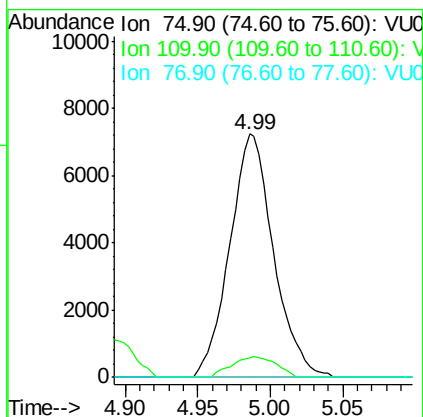
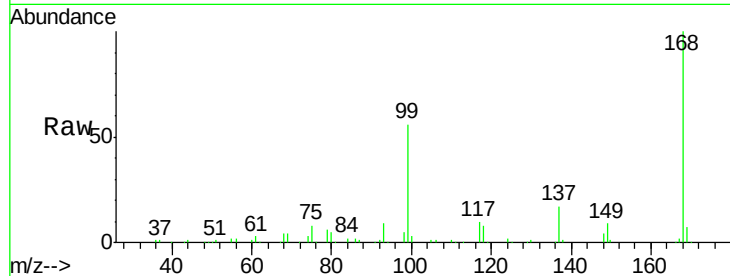




#36
 1,1-Dichloropropene
 Concen: 4.41 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.15 min
 Lab File: VU025286.D
 Acq: 10 Jul 2018 14:02

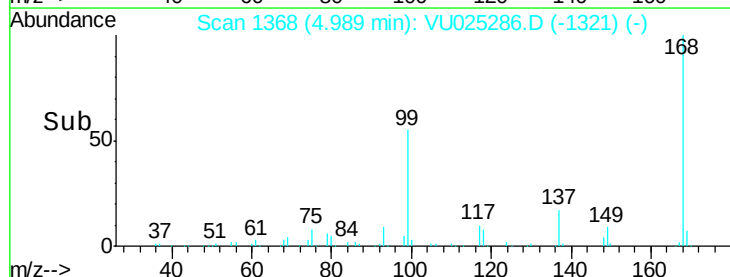
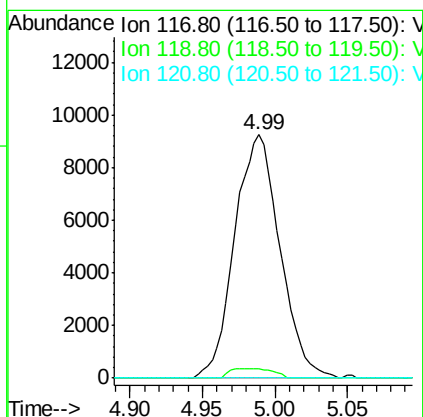
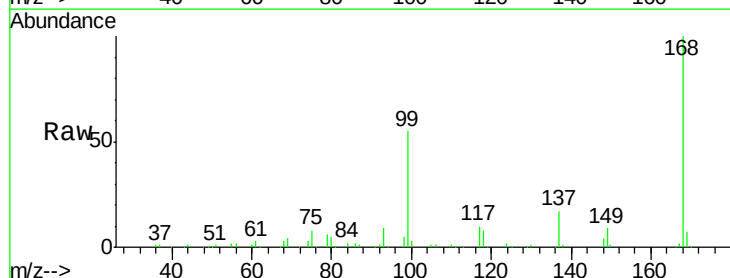
Instrument :
 MSVOA_U
 ClientSampleId :
 BR-1-070518

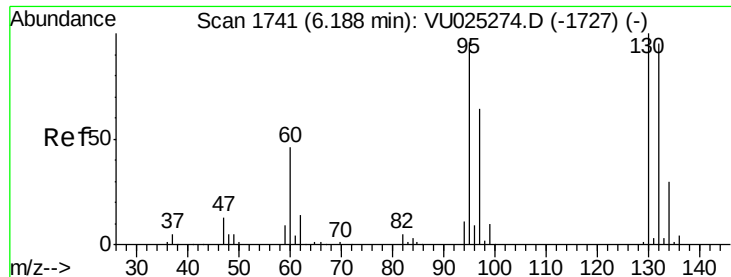
Tot Ion: 75 Resp: 15180
 Ion Ratio Lower Upper
 75 100
 110 8.7 17.6 52.9#
 77 0.0 24.4 36.6#



#38
 Carbon Tetrachloride
 Concen: 5.42 ug/l
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.15 min
 Lab File: VU025286.D
 Acq: 10 Jul 2018 14:02

Tgt Ion: 117 Resp: 20087
 Ion Ratio Lower Upper
 117 100
 119 3.6 75.7 113.5#
 121 0.0 24.6 36.8#

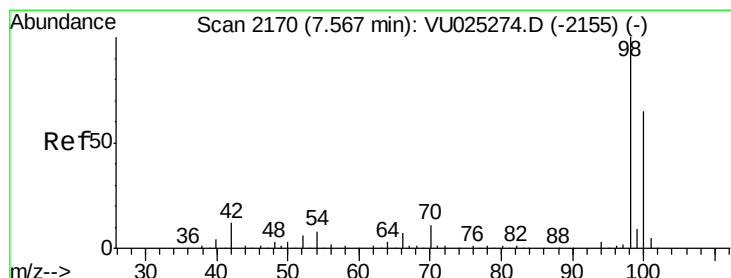
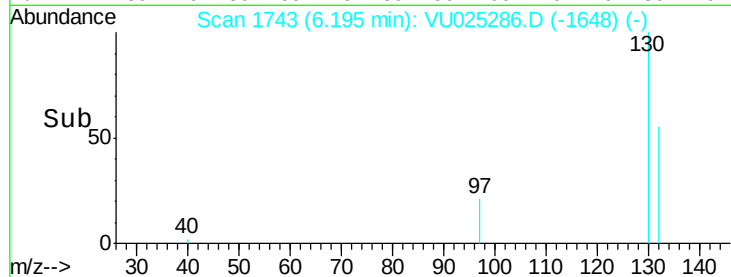
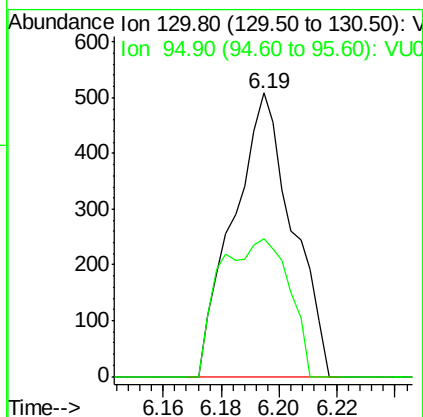
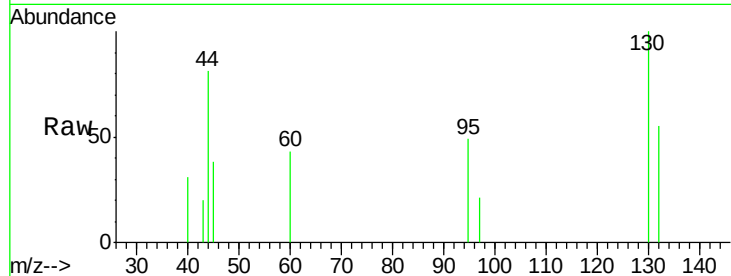




#44
 Trichloroethene
 Concen: 0.25 ug/l
 RT: 6.19 min Scan# 1743
 Delta R.T. 0.01 min
 Lab File: VU025286.D
 Acq: 10 Jul 2018 14:02

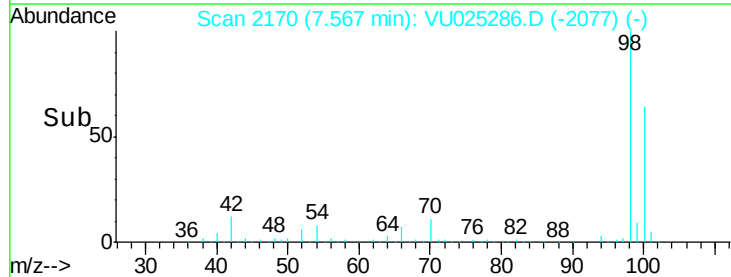
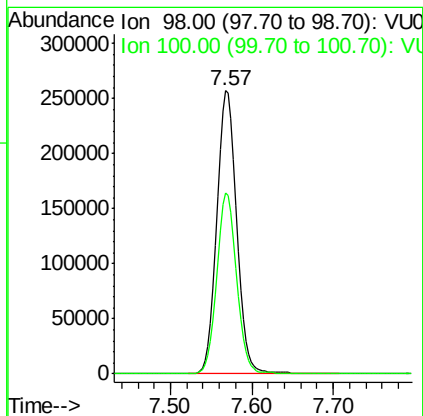
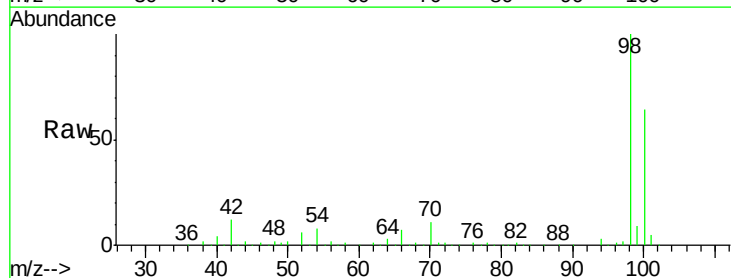
Instrument :
 MSVOA_U
 ClientSampleId :
 BR-1-070518

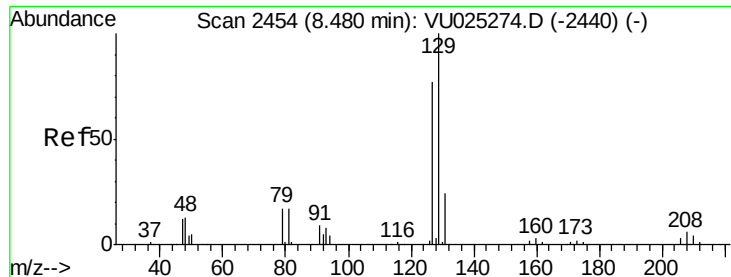
Tot Ion:130 Resp: 717
 Ion Ratio Lower Upper
 130 100
 95 48.6 0.0 192.2



#50
 Toluene-d8
 Concen: 50.07 ug/l
 RT: 7.57 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VU025286.D
 Acq: 10 Jul 2018 14:02

Tgt Ion: 98 Resp: 448185
 Ion Ratio Lower Upper
 98 100
 100 63.2 51.1 76.7

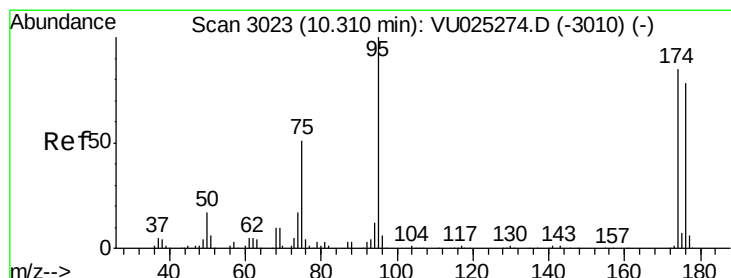
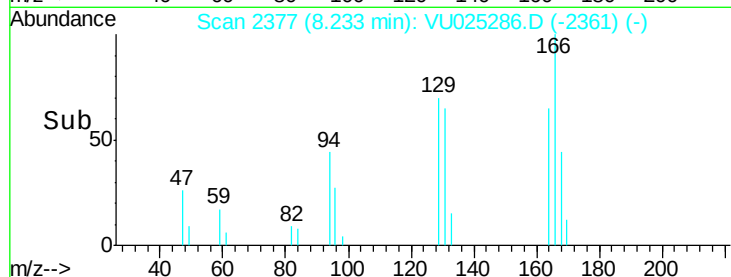
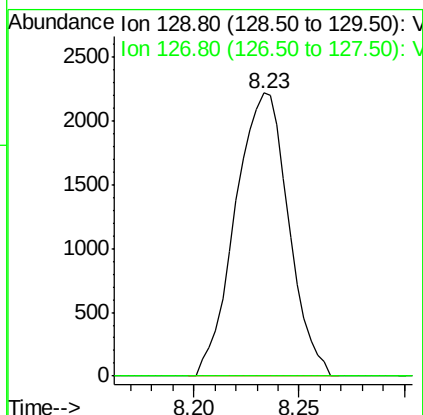
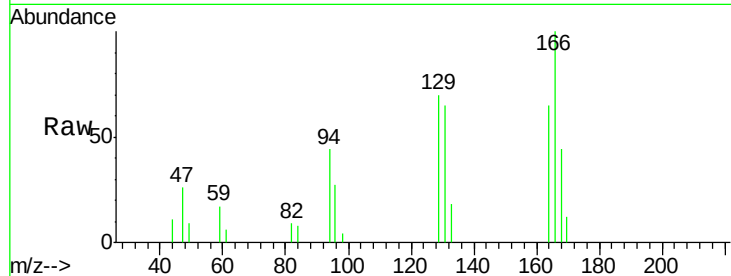




#60
Dibromochloromethane
Concen: 1.37 ug/l
RT: 8.23 min Scan# 2377
Delta R.T. -0.25 min
Lab File: VU025286.D
Acq: 10 Jul 2018 14:02

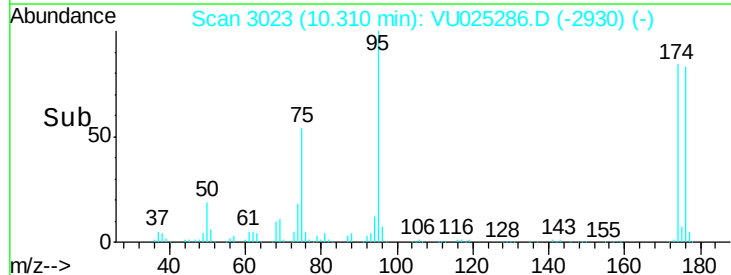
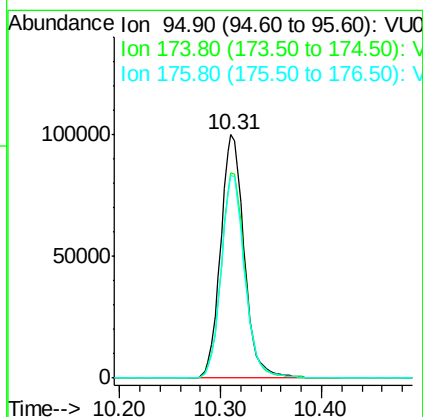
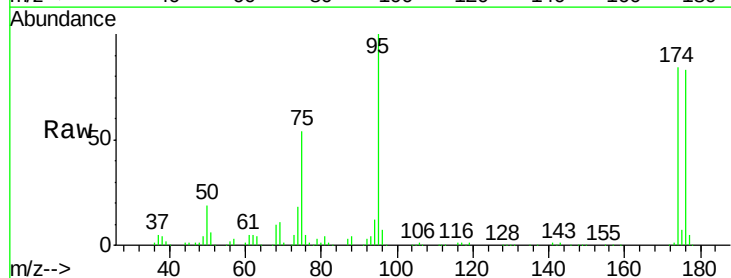
Instrument :
MSVOA_U
ClientSampleId :
BR-1-070518

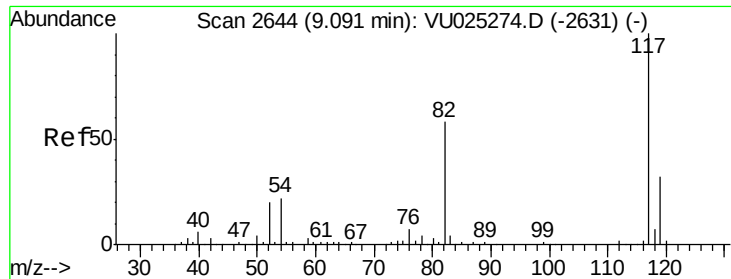
Tot Ion:129 Resp: 3883
Ion Ratio Lower Upper
129 100
127 0.0 38.6 115.8#



#62
4-Bromofluorobenzene
Concen: 45.47 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. 0.00 min
Lab File: VU025286.D
Acq: 10 Jul 2018 14:02

Tgt Ion: 95 Resp: 163865
Ion Ratio Lower Upper
95 100
174 84.9 0.0 172.2
176 83.0 0.0 162.6

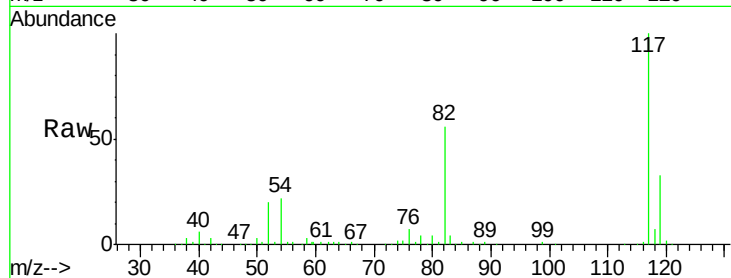




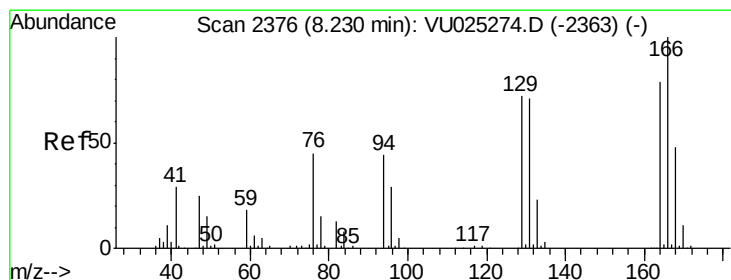
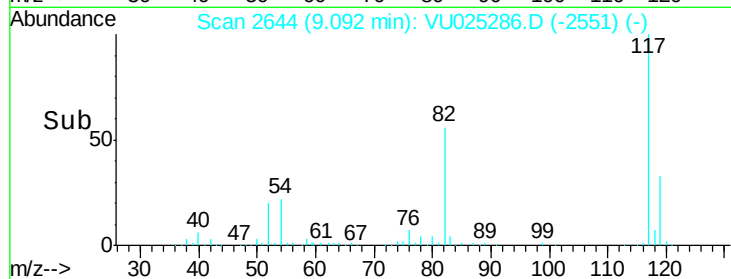
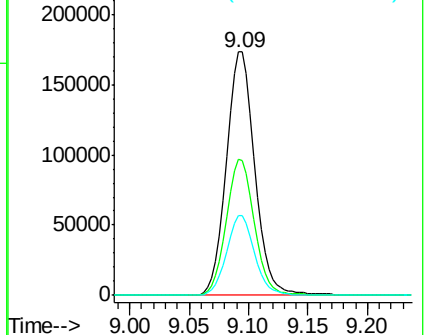
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VU025286.D
Acq: 10 Jul 2018 14:02

Instrument :
MSVOA_U
ClientSampleId :
BR-1-070518

Tot Ion:117 Resp: 287700
Ion Ratio Lower Upper
117 100
82 55.9 46.0 69.0
119 32.9 26.0 39.0



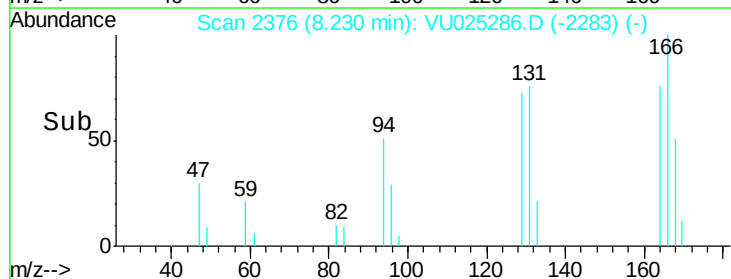
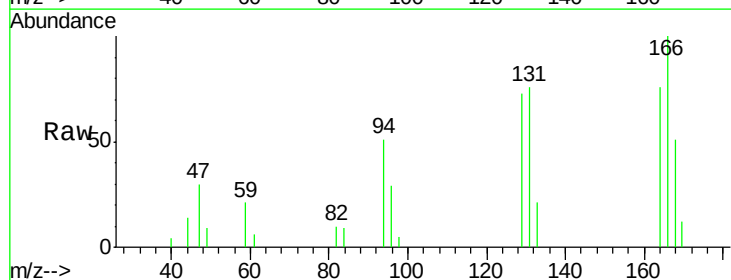
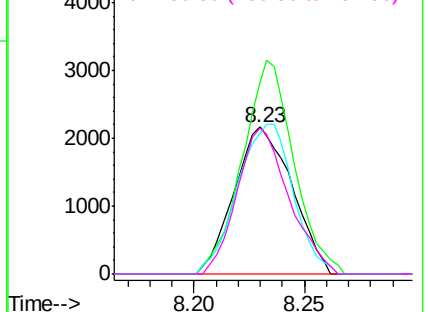
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

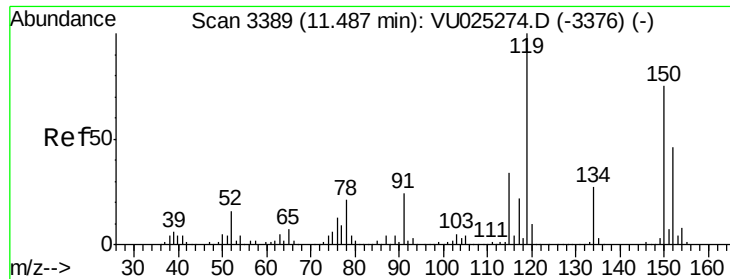


#64
Tetrachloroethene
Concen: 1.50 ug/l
RT: 8.23 min Scan# 2376
Delta R.T. 0.00 min
Lab File: VU025286.D
Acq: 10 Jul 2018 14:02

Tgt Ion:164 Resp: 3945
Ion Ratio Lower Upper
164 100
166 131.1 101.1 151.7
129 96.3 73.0 109.6
131 99.8 72.1 108.1

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: 50.00 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU025286.D

Acq: 10 Jul 2018 14:02

Instrument :

MSVOA_U

ClientSampleId :

BR-1-070518

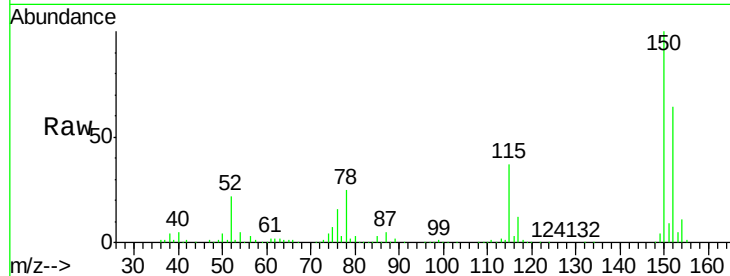
Tot Ion:152 Resp: 145871

Ion Ratio Lower Upper

152 100

115 56.2 40.1 120.3

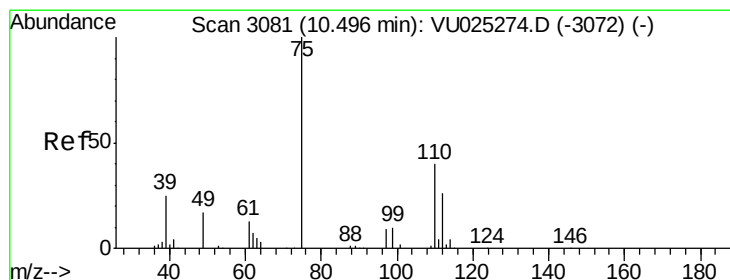
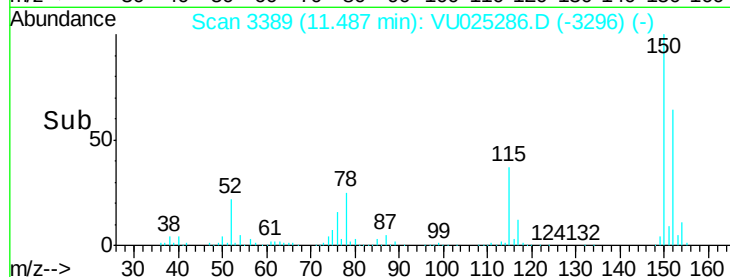
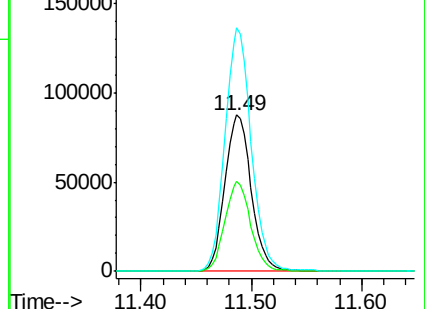
150 154.5 0.0 351.4



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: 29.21 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025286.D

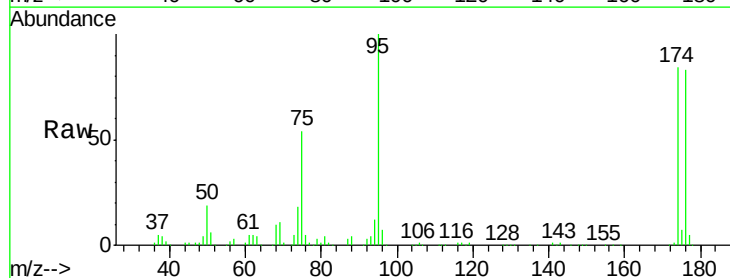
Acq: 10 Jul 2018 14:02

Tgt Ion: 75 Resp: 86848

Ion Ratio Lower Upper

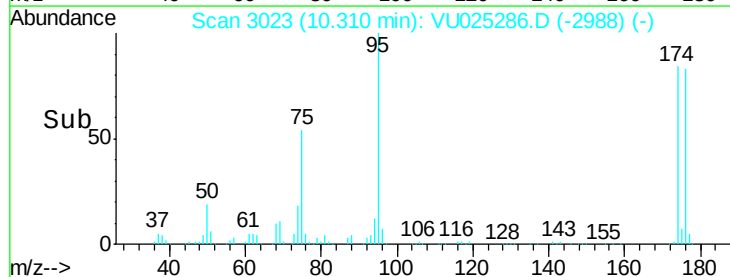
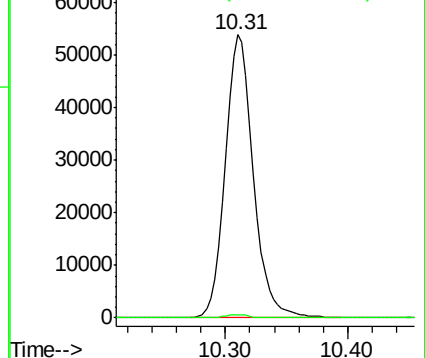
75 100

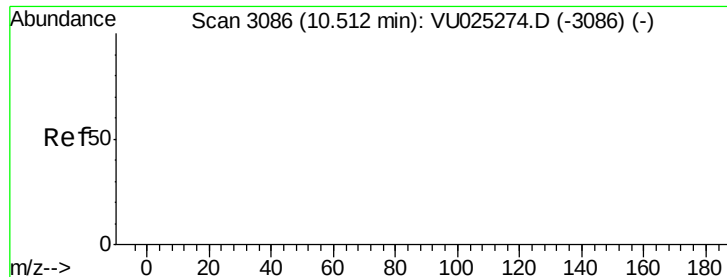
77 1.0 20.4 61.3#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

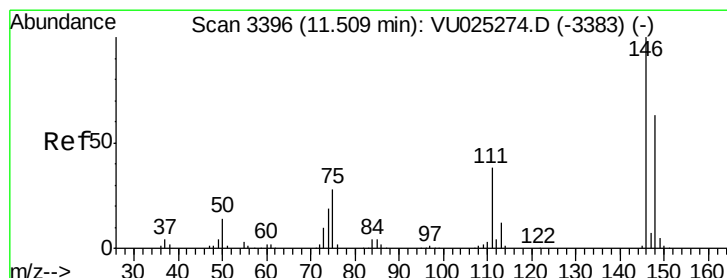
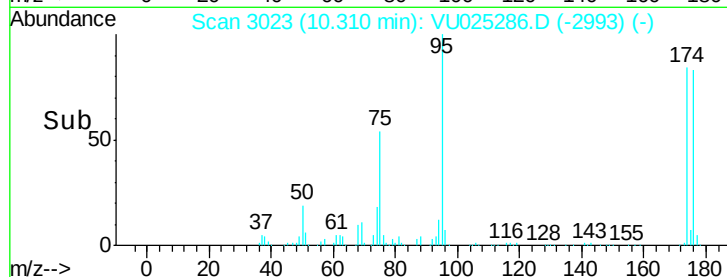
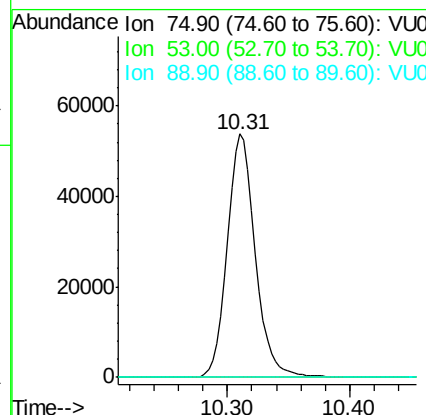
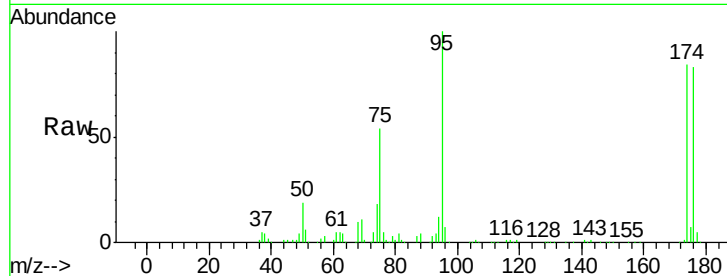




#81
trans-1,4-Dichloro-2-butene
Concen: 74.73 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. -0.20 min
Lab File: VU025286.D
Acq: 10 Jul 2018 14:02

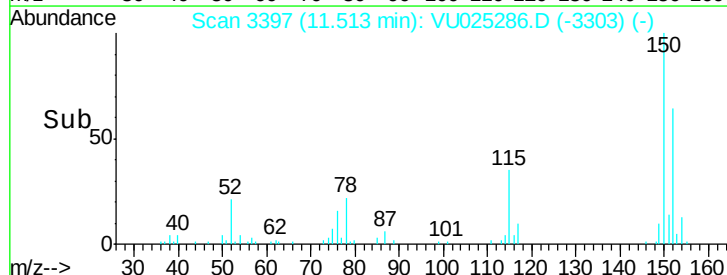
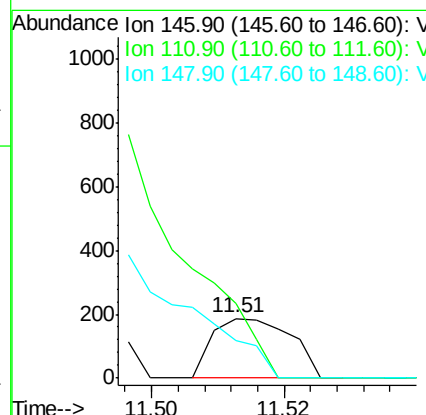
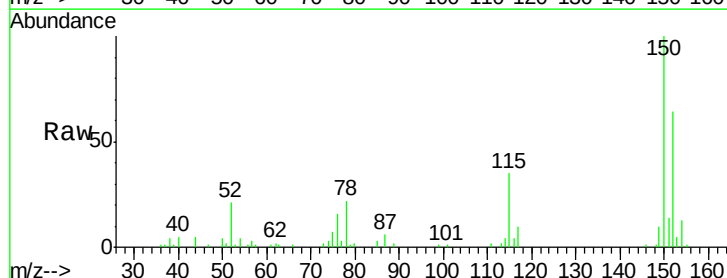
Instrument :
MSVOA_U
ClientSampleId :
BR-1-070518

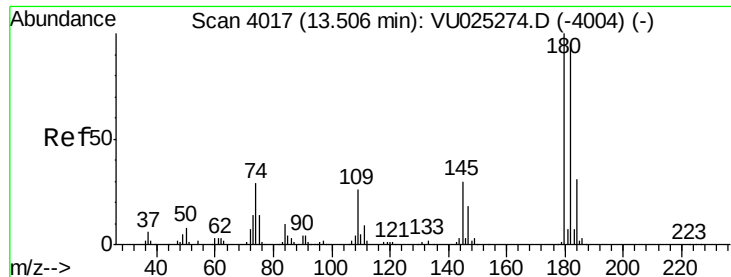
Tot Ion: 75 Resp: 86848
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0
89 0.0 0.0 0.0



#88
1,4-Dichlorobenzene
Concen: 1.52 ug/l
RT: 11.51 min Scan# 3397
Delta R.T. 0.00 min
Lab File: VU025286.D
Acq: 10 Jul 2018 14:02

Tgt Ion: 146 Resp: 153
Ion Ratio Lower Upper
146 100
111 0.0 19.4 58.1#
148 0.0 31.7 95.1#

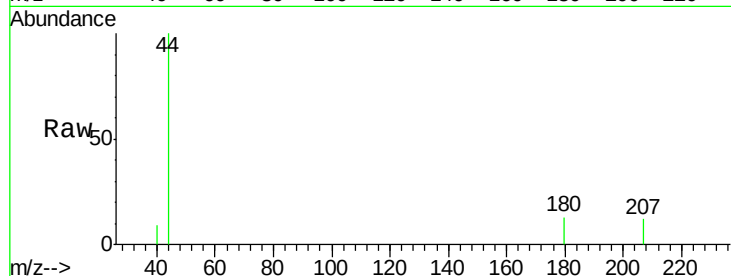




#93
 1,2,4-Trichlorobenzene
 Concen: 3.31 ug/l
 RT: 13.53 min Scan# 4024
 Delta R.T. 0.02 min
 Lab File: VU025286.D
 Acq: 10 Jul 2018 14:02

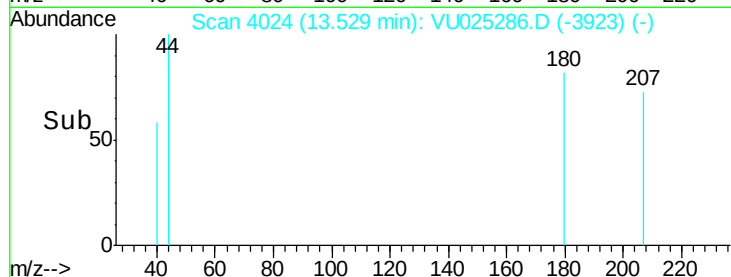
Instrument :
 MSVOA_U
 ClientSampleId :
 BR-1-070518

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.3	141.9#
145	0.0	14.9	44.7#

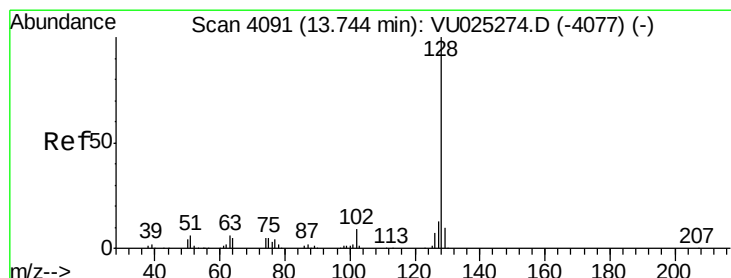


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

13.53

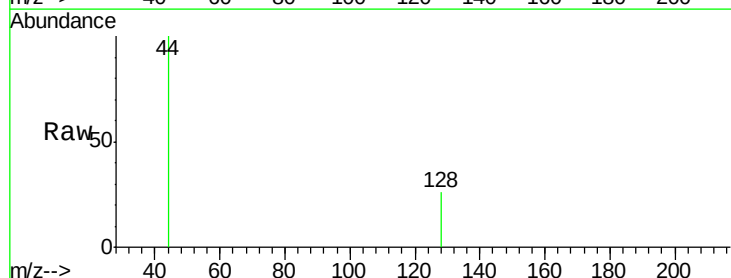


Time-->



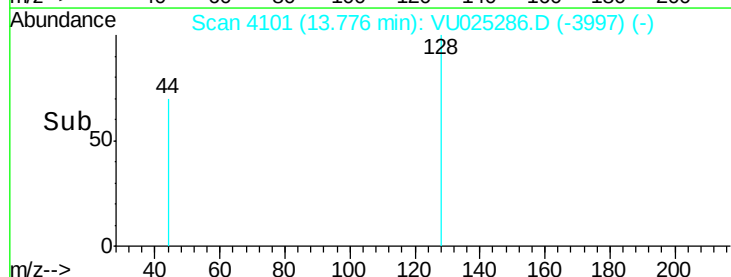
#95
 Naphthalene
 Concen: 2.46 ug/l
 RT: 13.78 min Scan# 4101
 Delta R.T. 0.03 min
 Lab File: VU025286.D
 Acq: 10 Jul 2018 14:02

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.5	15.7#
129	0.0	8.3	12.5#

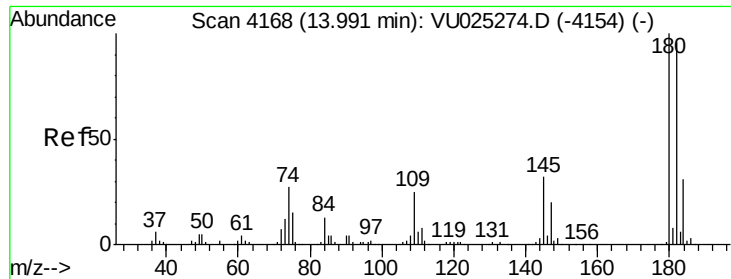


Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V

13.78



Time-->



#96

1,2,3-Trichlorobenzene

Concen: 2.54 ug/l

RT: 14.00 min Scan# 4171

Delta R.T. 0.01 min

Lab File: VU025286.D

Acq: 10 Jul 2018 14:02

Instrument :

MSVOA_U

ClientSampleId :

BR-1-070518

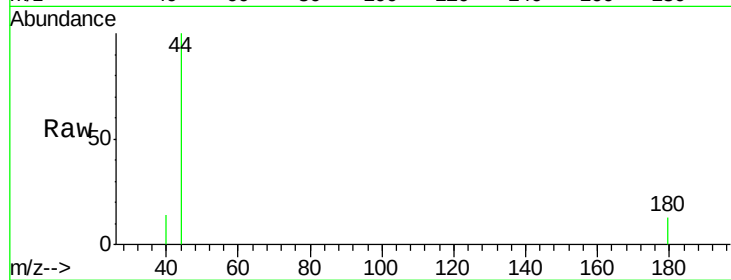
Tot Ion:180 Resp: 46

Ion Ratio Lower Upper

180 100

182 0.0 47.8 143.3#

145 0.0 15.6 46.8#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

