

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062518\
 Data File : VU024896.D
 Acq On : 26 Jun 2018 00:13
 Operator : MD/SY
 Sample : J3669-06ME
 Misc : 6.12g/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jun 26 05:39:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 13 13:55:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	223555	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	341380	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	326657	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	177317	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	167396	45.87	ug/l	0.00
Spiked Amount			Recovery	=	91.74%	
35) Dibromofluoromethane	4.89	113	129347	45.65	ug/l	0.00
Spiked Amount			Recovery	=	91.30%	
50) Toluene-d8	7.57	98	498249	48.21	ug/l	0.00
Spiked Amount			Recovery	=	96.42%	
62) 4-Bromofluorobenzene	10.32	95	188953	46.05	ug/l	0.00
Spiked Amount			Recovery	=	92.10%	

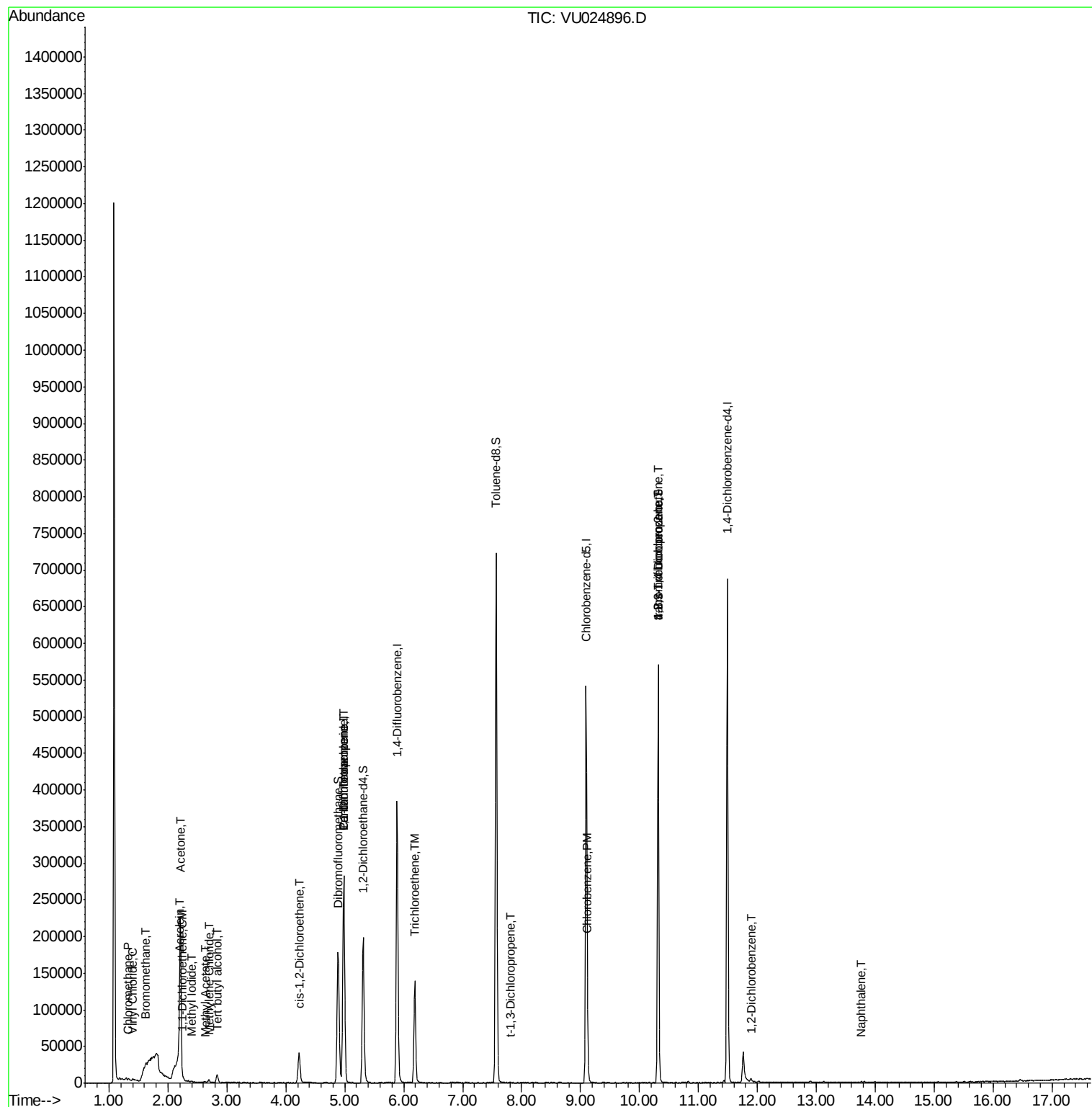
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1341	0.47	ug/l #	80
4) Vinyl Chloride	1.40	62	1450	0.49	ug/l	95
5) Bromomethane	1.61	94	1127	0.79	ug/l #	78
6) Chloroethane	1.66	64	364	Below Cal	#	43
8) Diethyl Ether	2.19	74	21	Below Cal	#	1
10) Methyl Iodide	2.39	142	755	5.57	ug/l #	83
11) Tert butyl alcohol	2.83	59	6629	7.47	ug/l #	74
12) 1,1-Dichloroethene	2.26	96	791	0.31	ug/l	81
13) Acrolein	2.18	56	275	0.59	ug/l #	52
16) Acetone	2.21	43	55279	28.19	ug/l #	44
18) Methyl Acetate	2.63	43	1069	0.25	ug/l #	82
20) Methylene Chloride	2.69	84	1851	0.60	ug/l	91
27) cis-1,2-Dichloroethene	4.22	96	24073	7.47	ug/l	88
31) Cyclohexane	4.98	56	4604	Below Cal	#	5
36) 1,1-Dichloropropene	4.98	75	16793	4.19	ug/l #	51
38) Carbon Tetrachloride	4.98	117	21778	4.94	ug/l #	16
44) Trichloroethene	6.18	130	51247	15.75	ug/l	94
53) t-1,3-Dichloropropene	7.82	75	1036	0.22	ug/l #	44
65) Chlorobenzene	9.13	112	8999	1.08	ug/l	99
76) 1,2,3-Trichloropropane	10.32	75	98588	25.25	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.32	75	98588	58.45	ug/l #	100
91) 1,2-Dichlorobenzene	11.89	146	1754	0.28	ug/l	92
95) Naphthalene	13.75	128	1043	0.76	ug/l #	73

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

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Quant Time: Jun 26 05:39:33 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
Quant Title : SW846 8260
QLast Update : Wed Jun 13 13:55:26 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.98 min Scan# 1366

Delta R.T. -0.01 min

Lab File: VU024896.D

Acq: 26 Jun 2018 00:13

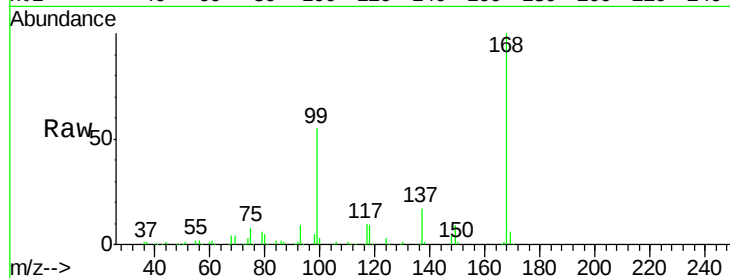
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 22355

Ion Ratio Lower Upper

168 100

99 55.4 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU024502.D (-1351) (-)

Ion 98.90 (98.60 to 99.60): VU024502.D (-1351) (-)

4.98

100000

80000

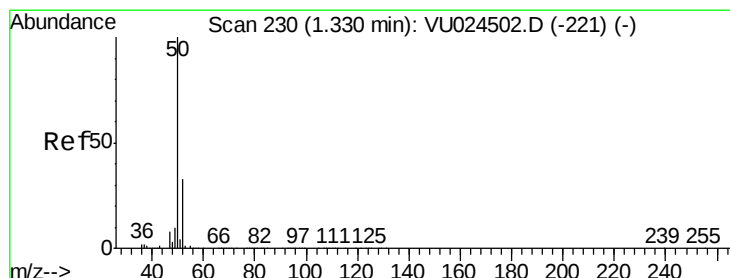
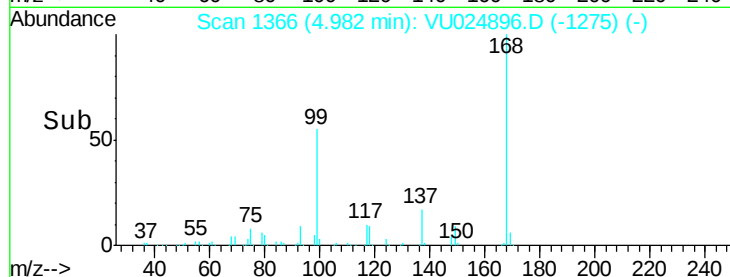
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.47 ug/l

RT: 1.32 min Scan# 228

Delta R.T. -0.01 min

Lab File: VU024896.D

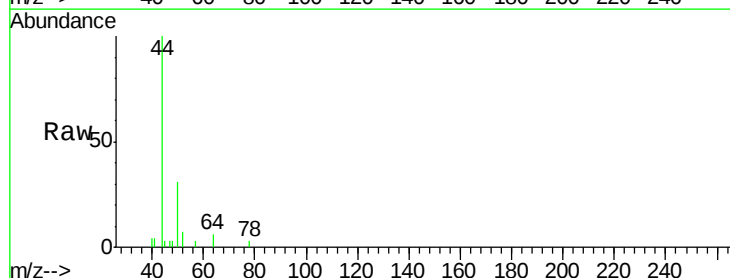
Acq: 26 Jun 2018 00:13

Tgt Ion: 50 Resp: 1341

Ion Ratio Lower Upper

50 100

52 21.9 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VU024502.D (-221) (-)

Ion 51.90 (51.60 to 52.60): VU024502.D (-221) (-)

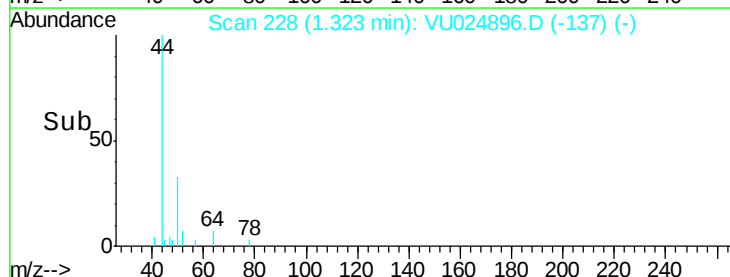
1.32

1000

500

0

Time-->





#4

Vinyl Chloride

Concen: 0.49 ug/l

RT: 1.40 min Scan# 252

Delta R.T. -0.00 min

Lab File: VU024896.D

Acq: 26 Jun 2018 00:13

Instrument :

MSVOA_U

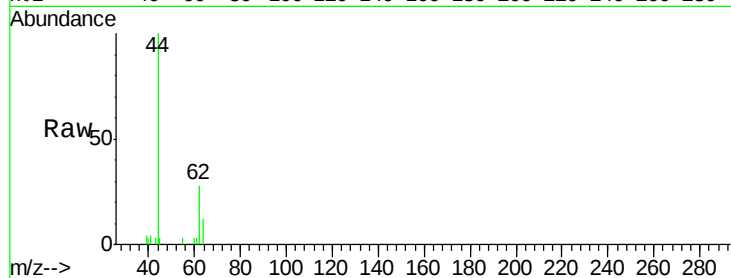
ClientSampled :

Tot Ion: 62 Resp: 1450

Ion Ratio Lower Upper

62 100

64 28.0 24.8 37.2



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0

1200

1000

800

600

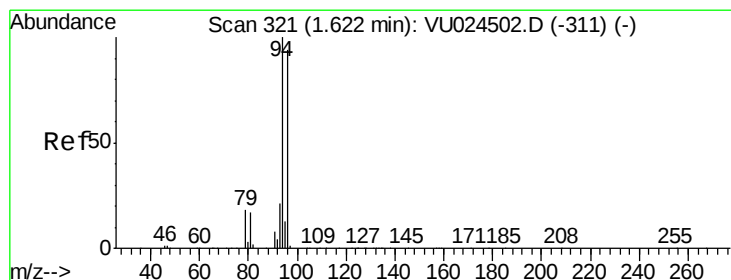
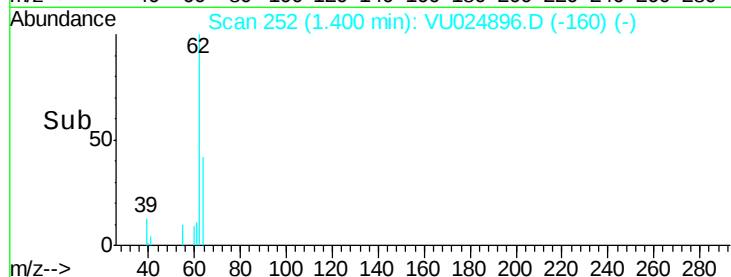
400

200

0

1.36 1.38 1.40 1.42 1.44

Time-->



#5

Bromomethane

Concen: 0.79 ug/l

RT: 1.61 min Scan# 318

Delta R.T. -0.01 min

Lab File: VU024896.D

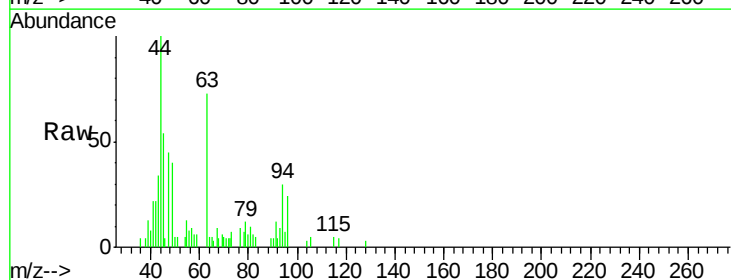
Acq: 26 Jun 2018 00:13

Tgt Ion: 94 Resp: 1127

Ion Ratio Lower Upper

94 100

96 71.9 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

1200

1000

800

600

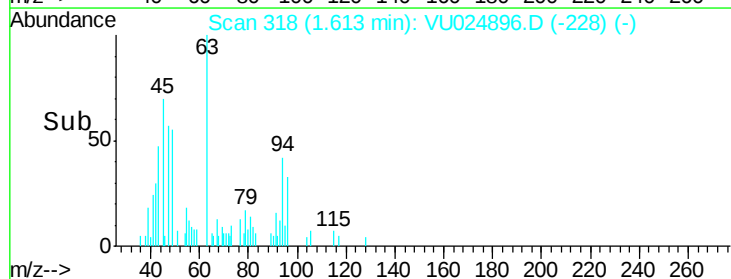
400

200

0

1.60 1.65

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.66 min Scan# 332

Delta R.T. -0.04 min

Lab File: VU024896.D

Acq: 26 Jun 2018 00:13

Instrument :

MSVOA_U

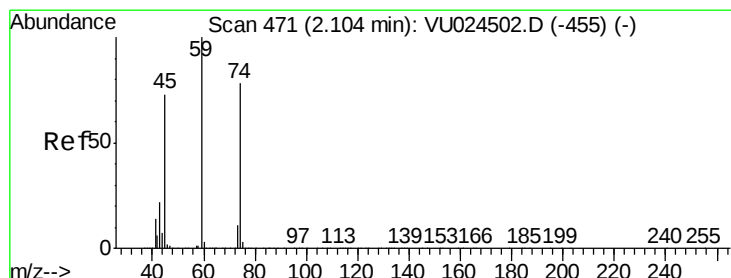
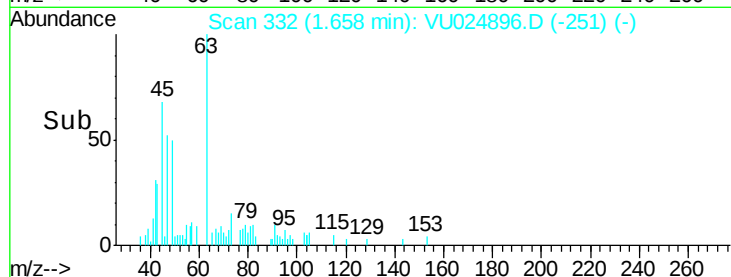
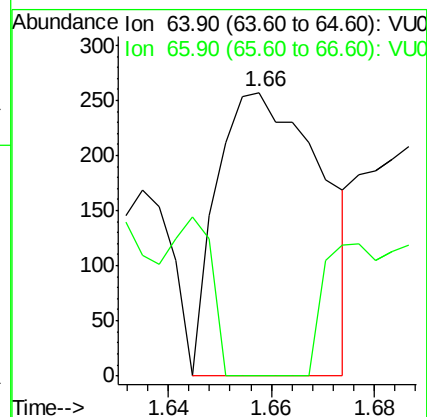
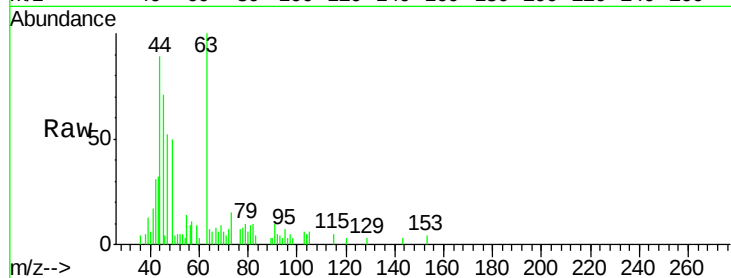
ClientSampleId :

Tot Ion: 64 Resp: 364

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.19 min Scan# 497

Delta R.T. 0.08 min

Lab File: VU024896.D

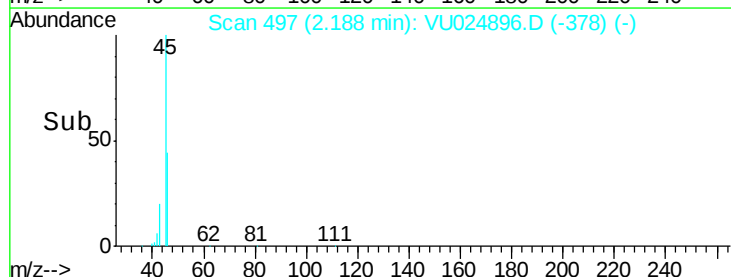
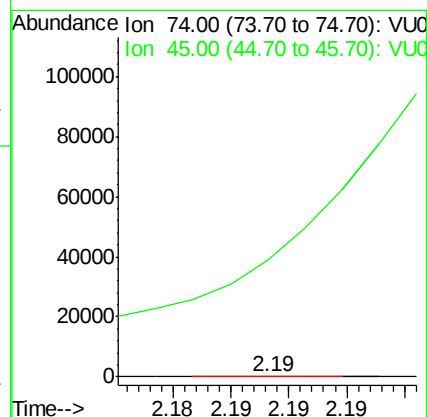
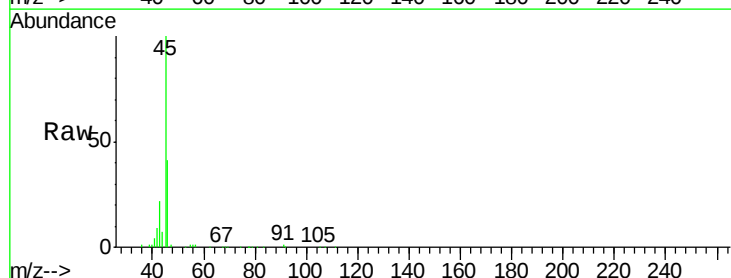
Acq: 26 Jun 2018 00:13

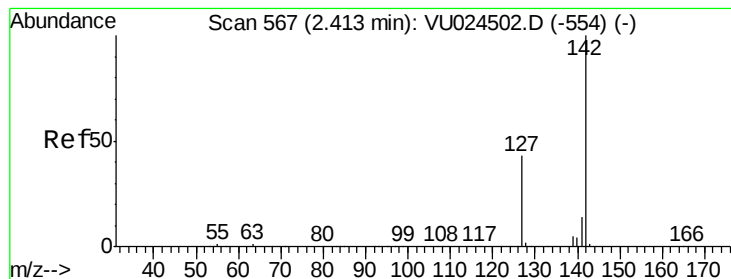
Tgt Ion: 74 Resp: 21

Ion Ratio Lower Upper

74 100

45 0.0 55.0 165.0#





#10

Methyl Iodide

Concen: 5.57 ug/l

RT: 2.39 min Scan# 561

Delta R.T. -0.02 min

Lab File: VU024896.D

Acq: 26 Jun 2018 00:13

Instrument :

MSVOA_U

ClientSampleId :

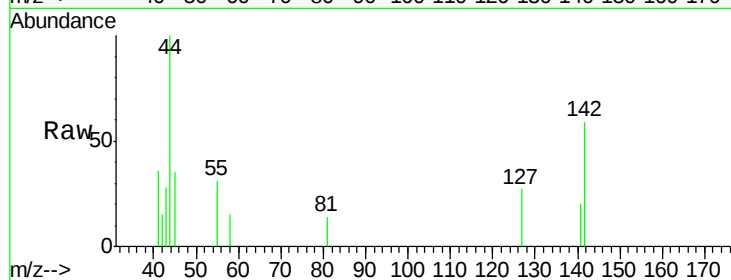
Tot Ion:142 Resp: 755

Ion Ratio Lower Upper

142 100

127 58.8 35.6 53.4#

141 15.1 11.7 17.5



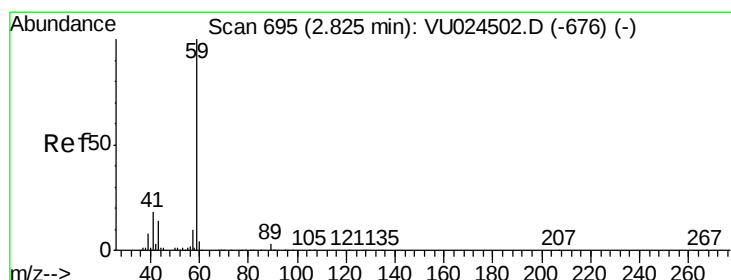
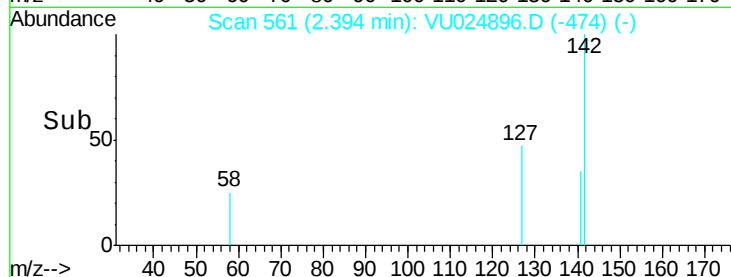
Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

2.39

Time-->



#11

Tert butyl alcohol

Concen: 7.47 ug/l

RT: 2.83 min Scan# 698

Delta R.T. 0.01 min

Lab File: VU024896.D

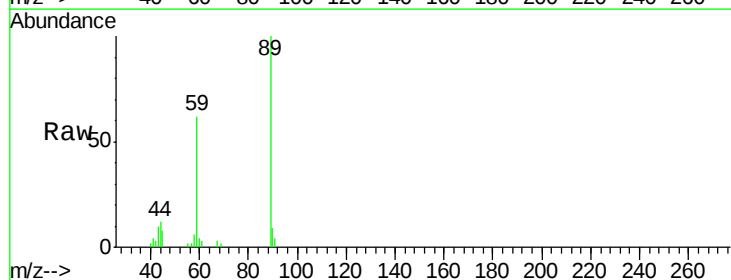
Acq: 26 Jun 2018 00:13

Tgt Ion: 59 Resp: 6629

Ion Ratio Lower Upper

59 100

57 0.7 8.5 12.7#

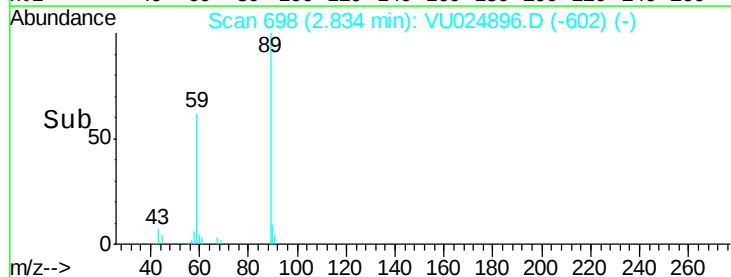


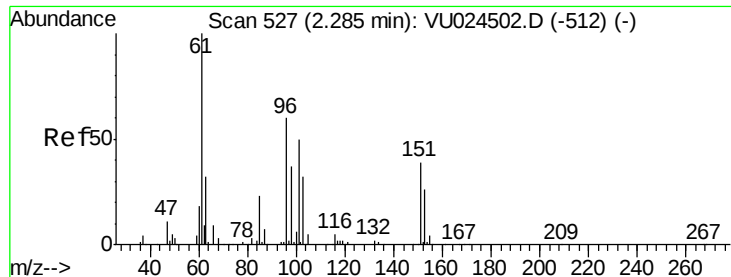
Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

2.83

Time-->





#12

1,1-Dichloroethene

Concen: 0.31 ug/l

RT: 2.26 min Scan# 518

Delta R.T. -0.03 min

Lab File: VU024896.D

Acq: 26 Jun 2018 00:13

Instrument :
MSVOA_U
ClientSampled :

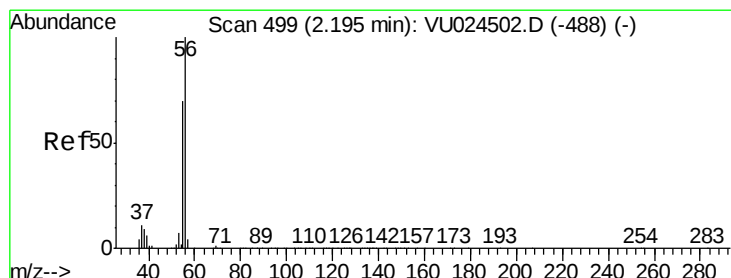
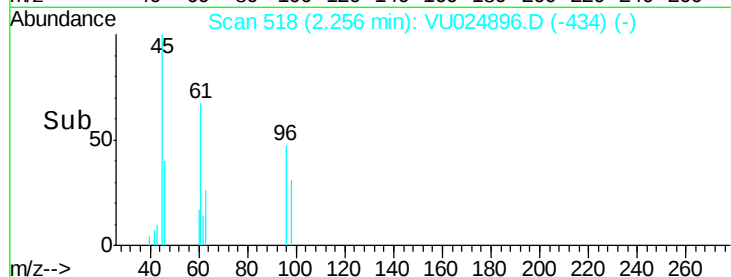
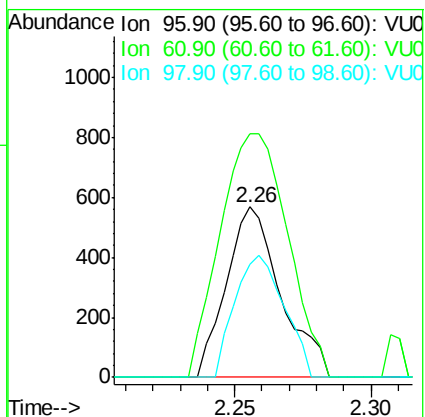
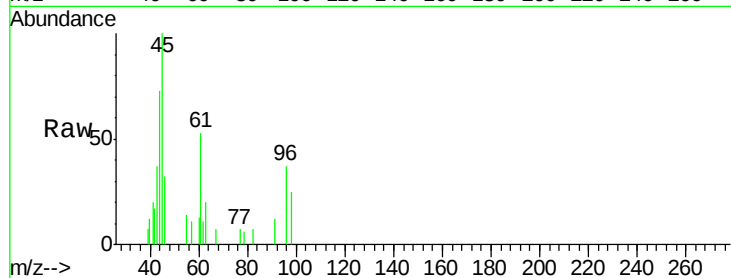
Tot Ion: 96 Resp: 791

Ion Ratio Lower Upper

96 100

61 143.0 141.7 212.5

98 66.5 51.6 77.4



#13

Acrolein

Concen: 0.59 ug/l

RT: 2.18 min Scan# 496

Delta R.T. -0.01 min

Lab File: VU024896.D

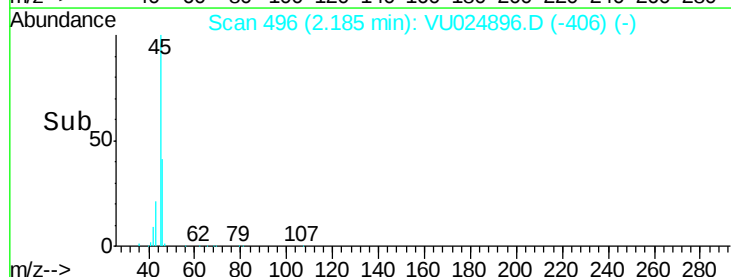
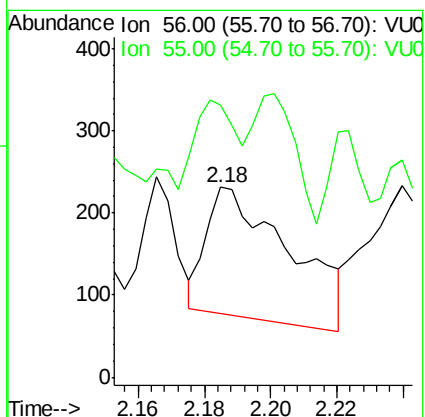
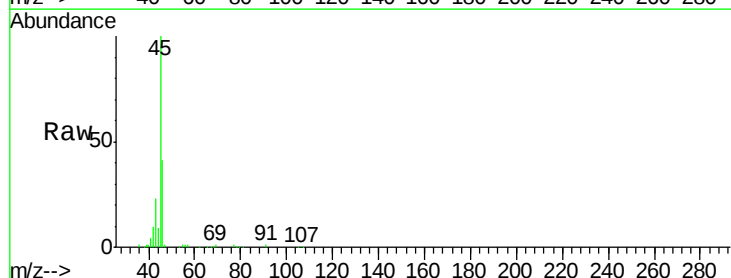
Acq: 26 Jun 2018 00:13

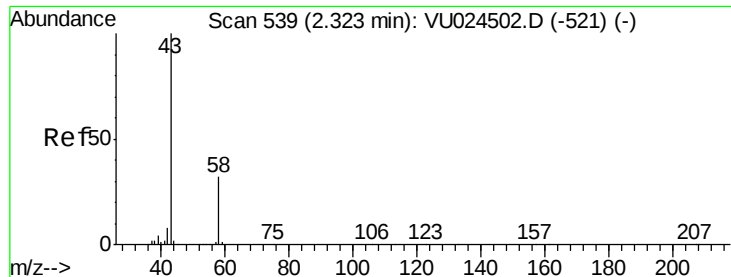
Tgt Ion: 56 Resp: 275

Ion Ratio Lower Upper

56 100

55 32.7 58.4 87.6#





#16

Acetone

Concen: 28.19 ug/l

RT: 2.21 min Scan# 504

Delta R.T. -0.11 min

Lab File: VU024896.D

Acq: 26 Jun 2018 00:13

Instrument :

MSVOA_U

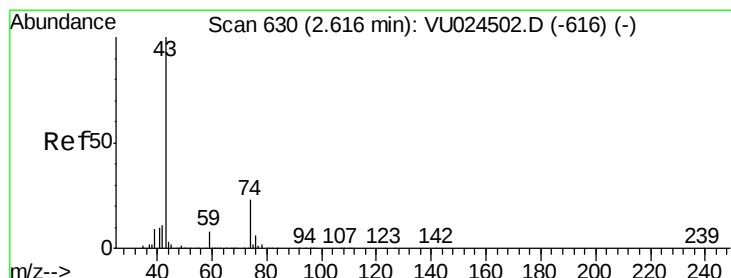
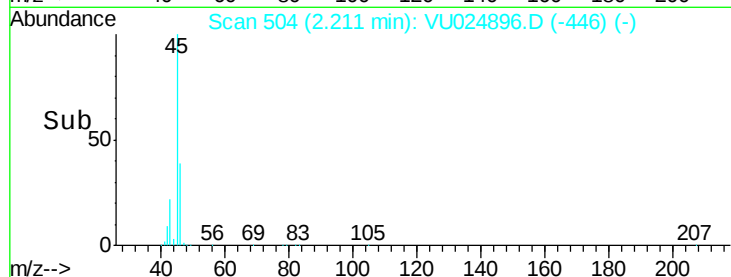
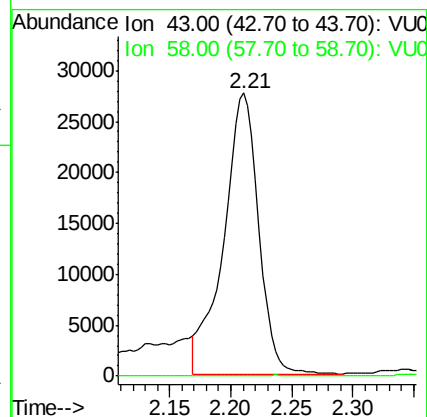
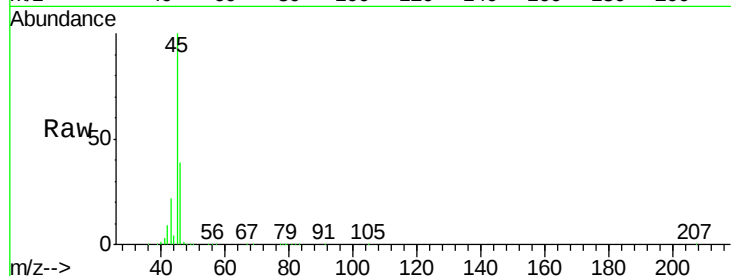
ClientSampleId :

Tot Ion: 43 Resp: 55279

Ion Ratio Lower Upper

43 100

58 0.0 24.4 36.6#



#18

Methyl Acetate

Concen: 0.25 ug/l

RT: 2.63 min Scan# 634

Delta R.T. 0.01 min

Lab File: VU024896.D

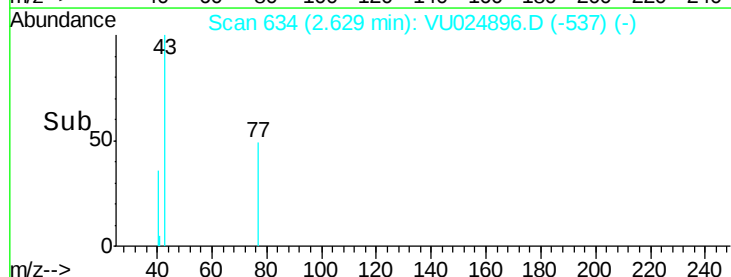
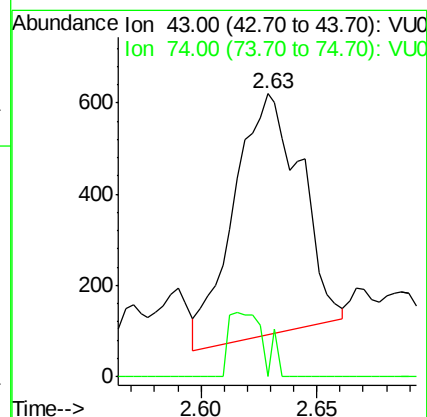
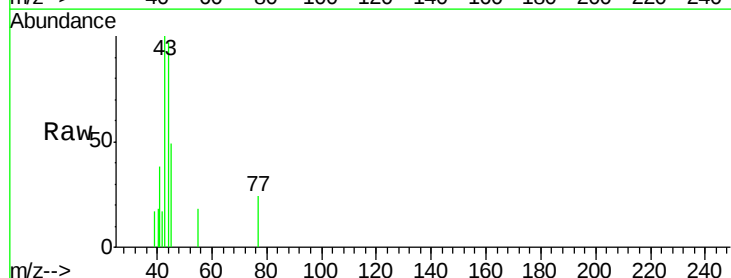
Acq: 26 Jun 2018 00:13

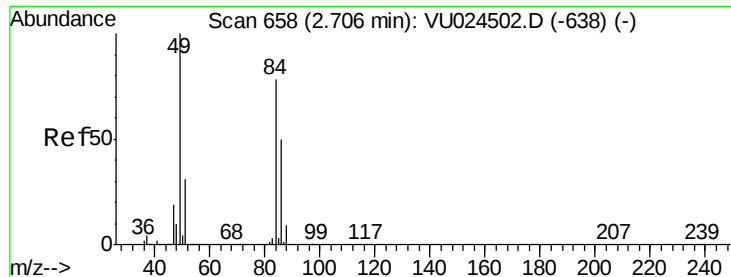
Tgt Ion: 43 Resp: 1069

Ion Ratio Lower Upper

43 100

74 13.8 18.0 27.0#





#20

Methylene Chloride

Concen: 0.60 ug/l

RT: 2.69 min Scan# 653

Delta R.T. -0.02 min

Lab File: VU024896.D

Acq: 26 Jun 2018 00:13

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 84 Resp: 1851

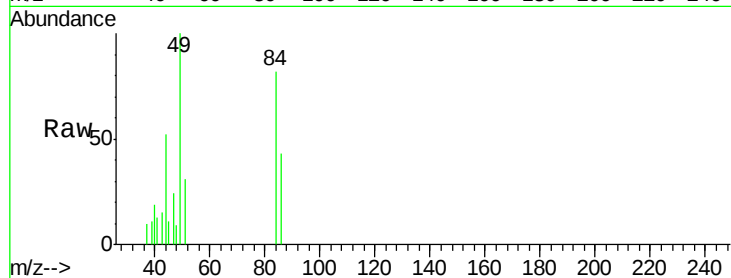
Ion	Ratio	Lower	Upper
84	100		
49	121.6	103.8	155.8
51	38.2	32.0	48.0
86	52.7	51.6	77.4

84 100

49 121.6 103.8 155.8

51 38.2 32.0 48.0

86 52.7 51.6 77.4

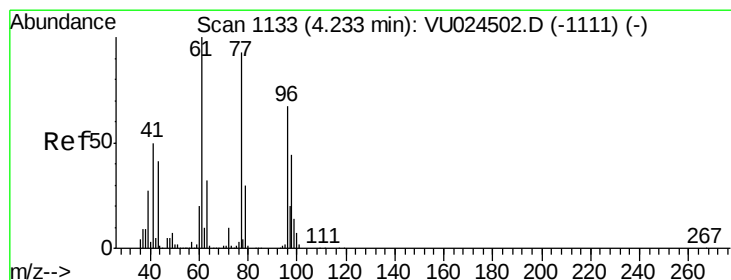
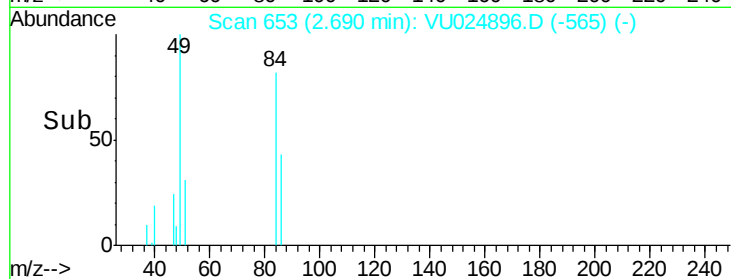
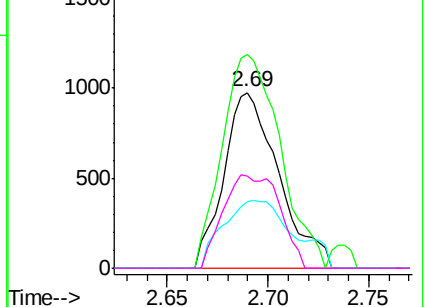


Abundance Ion 83.90 (83.60 to 84.60): VU0

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



#27

cis-1,2-Dichloroethene

Concen: 7.47 ug/l

RT: 4.22 min Scan# 1129

Delta R.T. -0.01 min

Lab File: VU024896.D

Acq: 26 Jun 2018 00:13

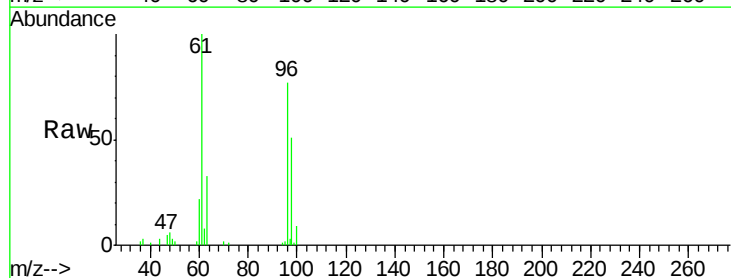
Tgt Ion: 96 Resp: 24073

Ion	Ratio	Lower	Upper
96	100		
61	132.5	0.0	306.6
98	66.0	0.0	128.8

96 100

61 132.5 0.0 306.6

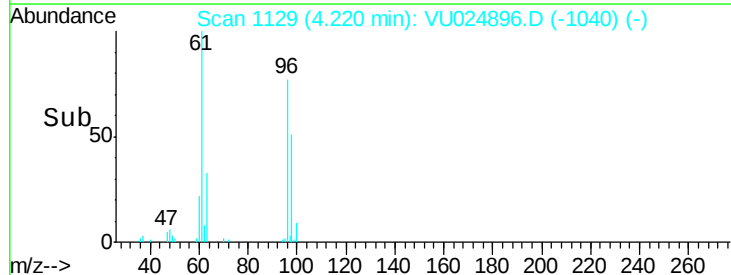
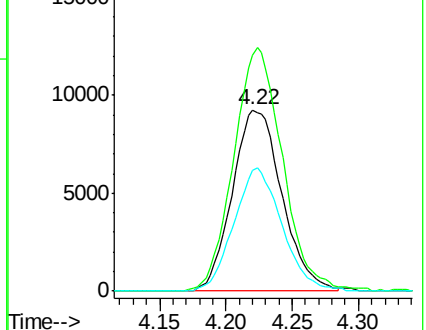
98 66.0 0.0 128.8

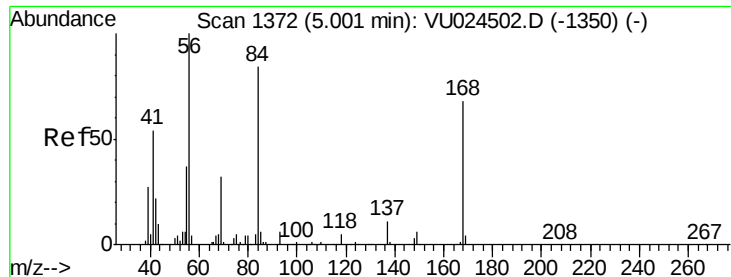


Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0

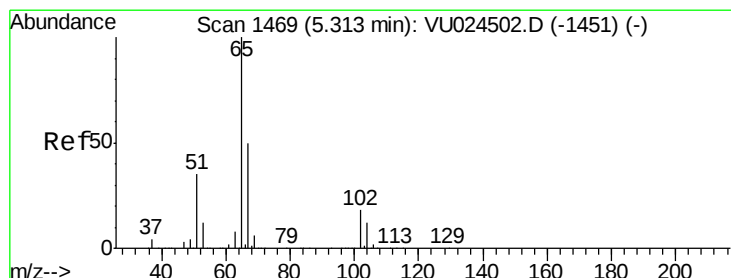
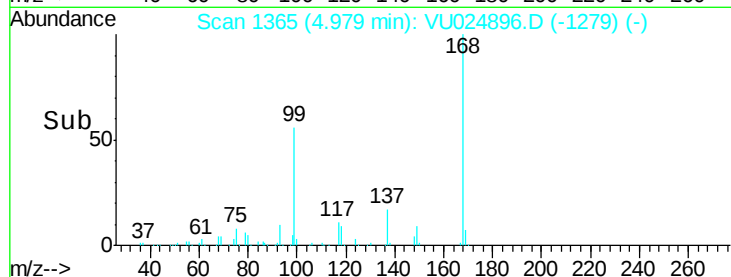
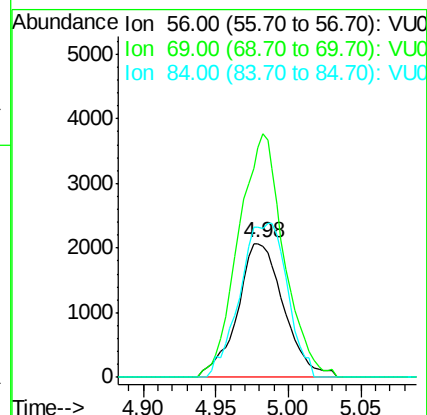
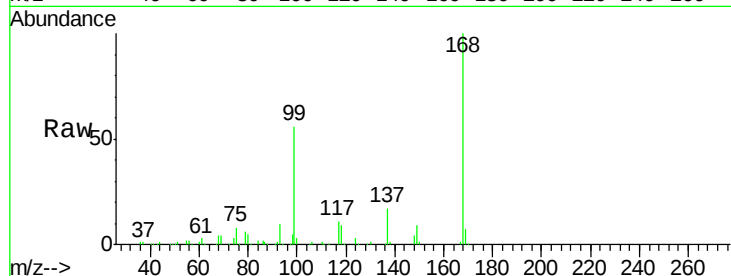




#31
Cyclohexane
Concen: Below Cal
RT: 4.98 min Scan# 1365
Delta R.T. -0.02 min
Lab File: VU024896.D
Acq: 26 Jun 2018 00:13

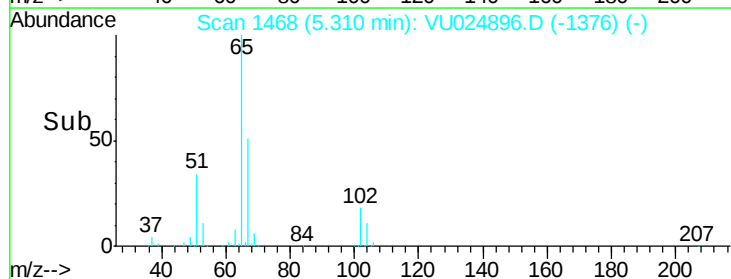
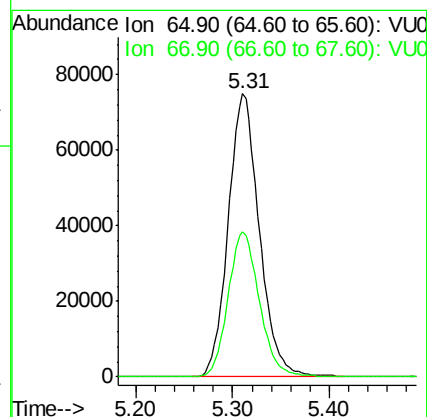
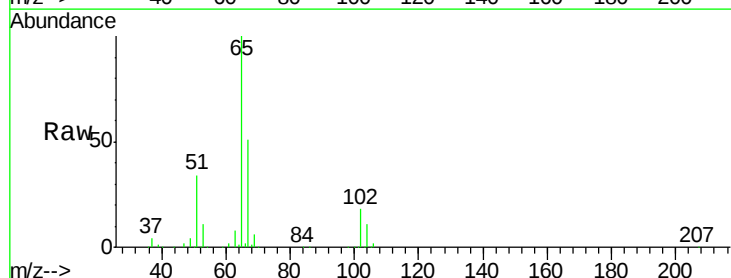
Instrument :
MSVOA_U
ClientSampleId :

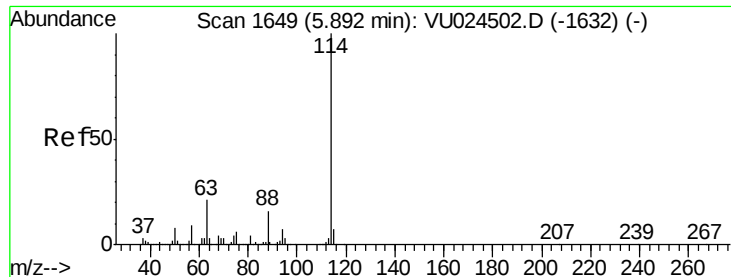
Tot Ion: 56 Resp: 4604
Ion Ratio Lower Upper
56 100
69 171.2 24.8 37.2#
84 111.8 65.2 97.8#



#33
1,2-Dichloroethane-d4
Concen: 45.87 ug/l
RT: 5.31 min Scan# 1468
Delta R.T. -0.00 min
Lab File: VU024896.D
Acq: 26 Jun 2018 00:13

Tgt Ion: 65 Resp: 167396
Ion Ratio Lower Upper
65 100
67 51.5 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.89 min Scan# 1647

Delta R.T. -0.01 min

Lab File: VU024896.D

Acq: 26 Jun 2018 00:13

Instrument :

MSVOA_U

ClientSampleId :

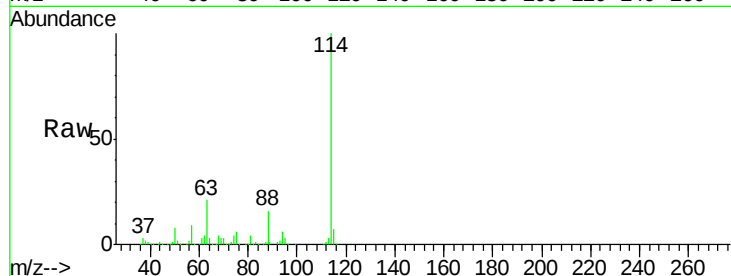
Tot Ion:114 Resp: 341380

Ion Ratio Lower Upper

114 100

63 20.9 0.0 45.4

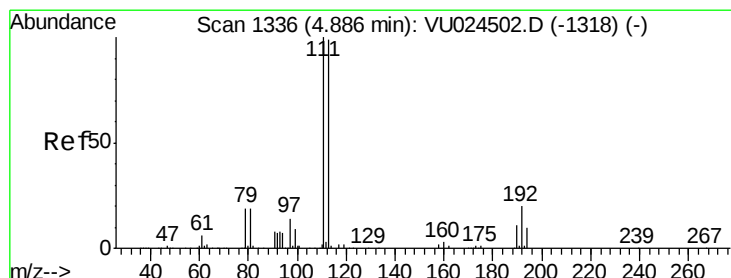
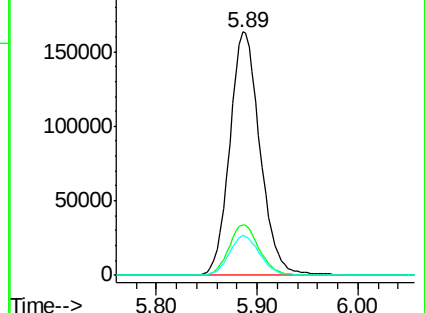
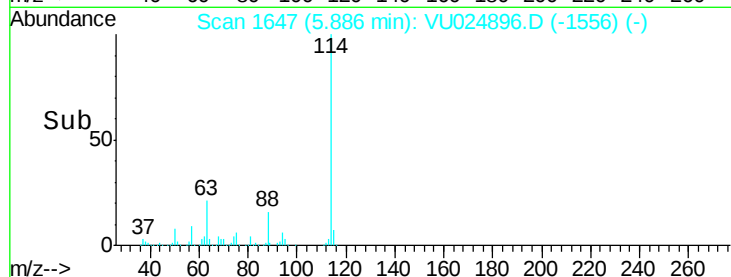
88 16.5 0.0 31.0



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: 45.65 ug/l

RT: 4.89 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU024896.D

Acq: 26 Jun 2018 00:13

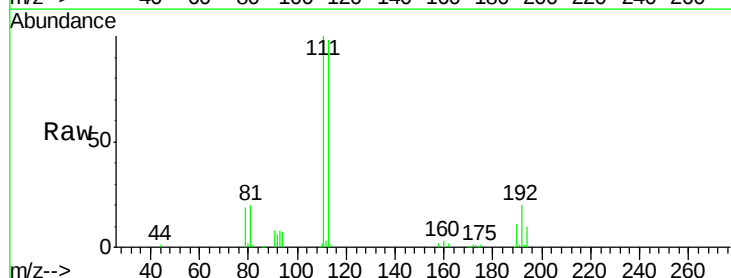
Tgt Ion:113 Resp: 129347

Ion Ratio Lower Upper

113 100

111 104.6 82.2 123.4

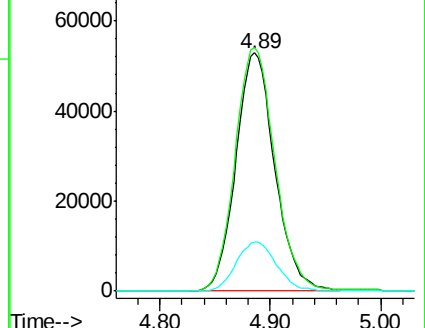
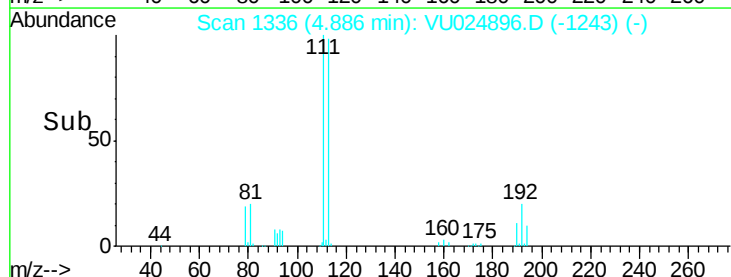
192 21.5 16.2 24.4

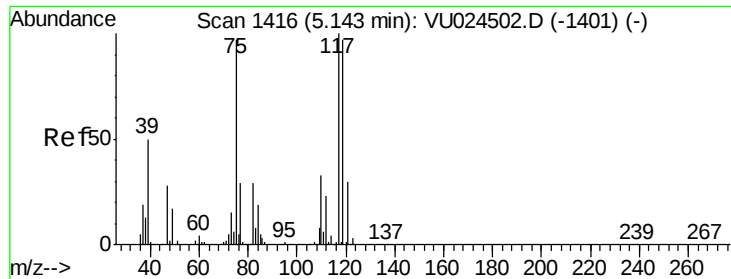


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

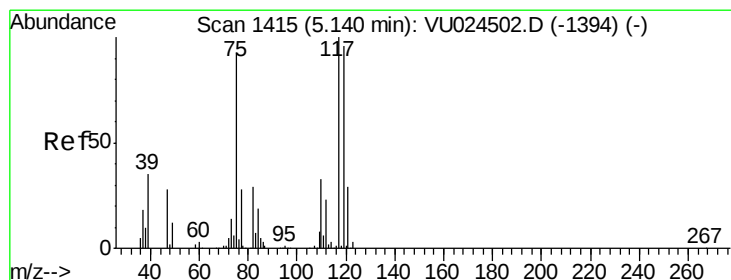
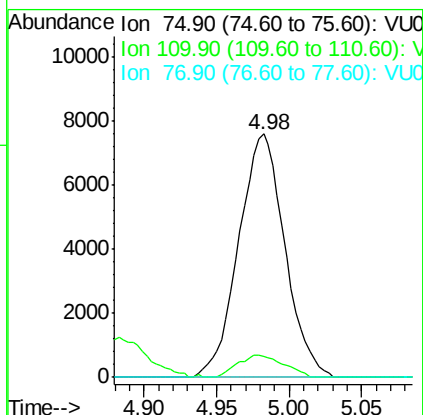
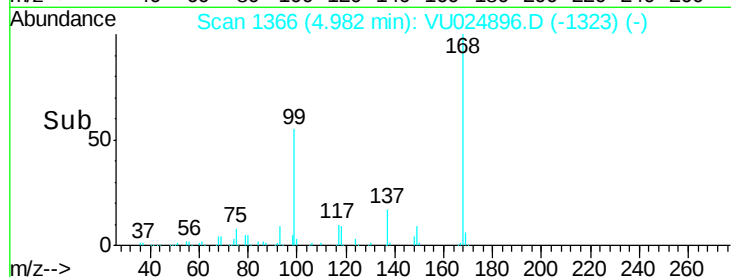
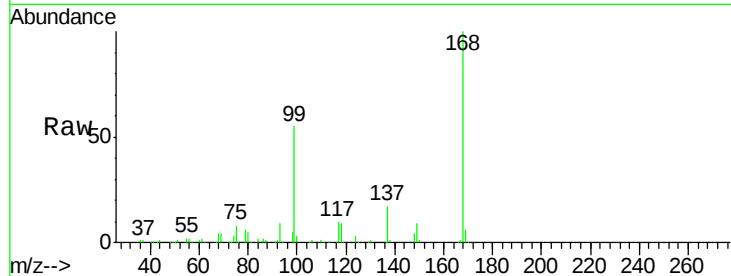




#36
 1,1-Dichloropropene
 Concen: 4.19 ug/l
 RT: 4.98 min Scan# 1366
 Delta R.T. -0.16 min
 Lab File: VU024896.D
 Acq: 26 Jun 2018 00:13

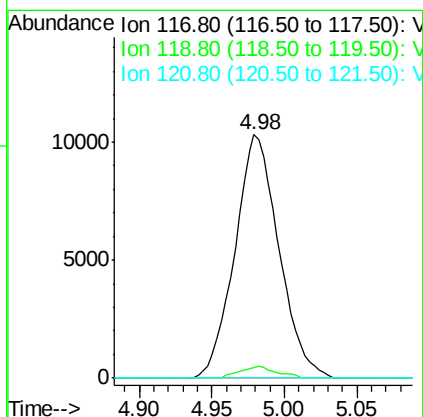
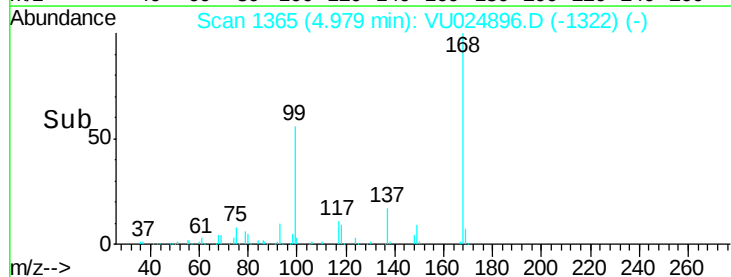
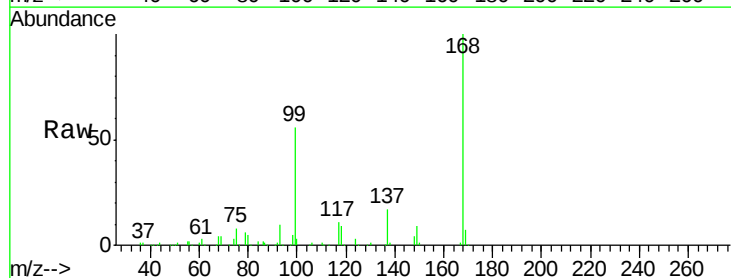
Instrument :
 MSVOA_U
 ClientSampleId :

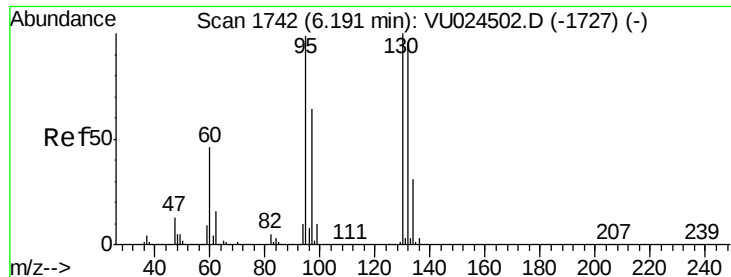
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.2	17.0	50.9#
77	0.0	24.2	36.4#



#38
 Carbon Tetrachloride
 Concen: 4.94 ug/l
 RT: 4.98 min Scan# 1365
 Delta R.T. -0.16 min
 Lab File: VU024896.D
 Acq: 26 Jun 2018 00:13

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.6	76.1	114.1#
121	0.0	23.7	35.5#

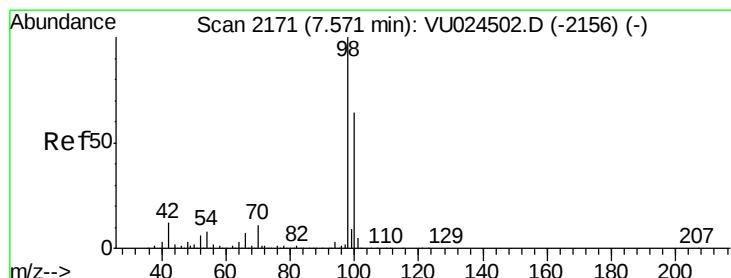
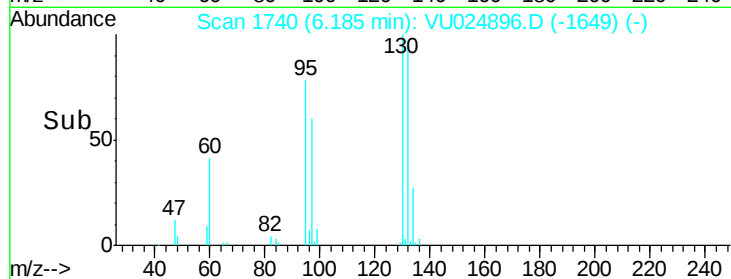
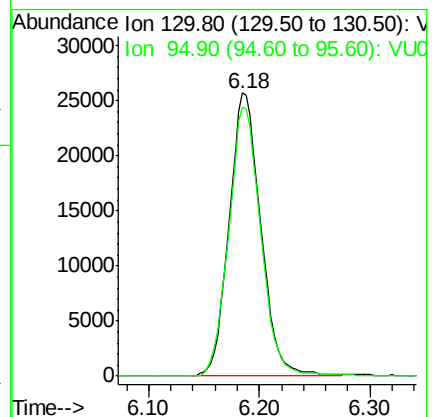
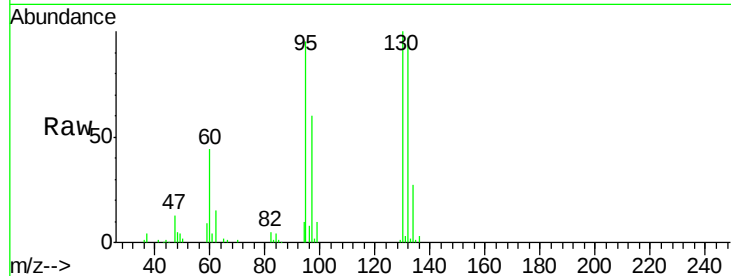




#44
 Trichloroethene
 Concen: 15.75 ug/l
 RT: 6.18 min Scan# 1740
 Delta R.T. -0.01 min
 Lab File: VU024896.D
 Acq: 26 Jun 2018 00:13

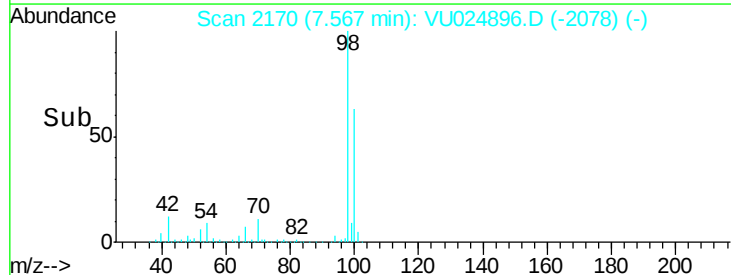
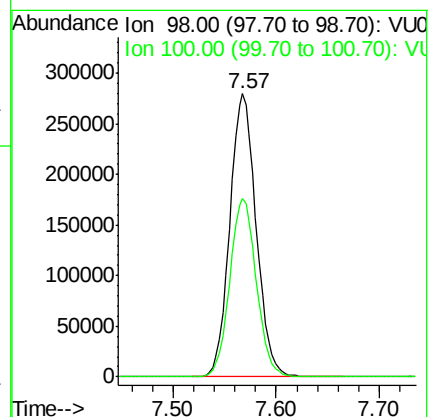
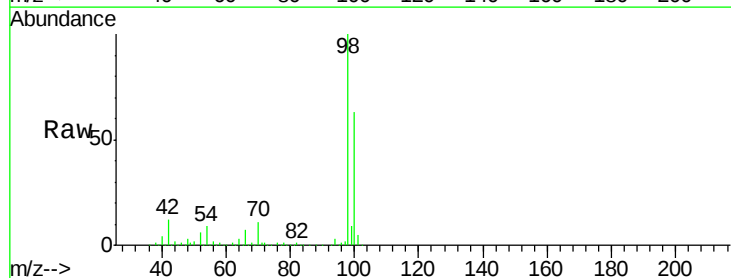
Instrument :
 MSVOA_U
 ClientSampleId :

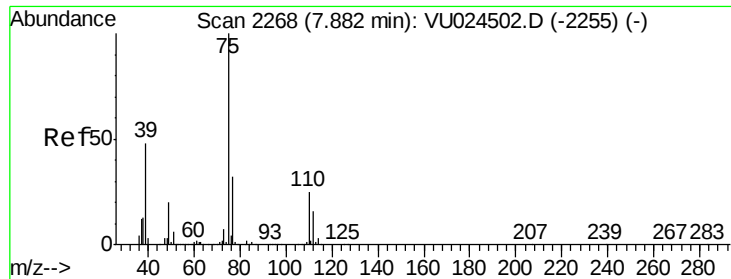
Tot Ion:130 Resp: 51247
 Ion Ratio Lower Upper
 130 100
 95 95.1 0.0 202.4



#50
 Toluene-d8
 Concen: 48.21 ug/l
 RT: 7.57 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VU024896.D
 Acq: 26 Jun 2018 00:13

Tgt Ion: 98 Resp: 498249
 Ion Ratio Lower Upper
 98 100
 100 63.3 51.1 76.7





#53

t-1,3-Dichloropropene

Concen: 0.22 ug/l

RT: 7.82 min Scan# 2248

Delta R.T. -0.06 min

Lab File: VU024896.D

Acq: 26 Jun 2018 00:13

Instrument :

MSVOA_U

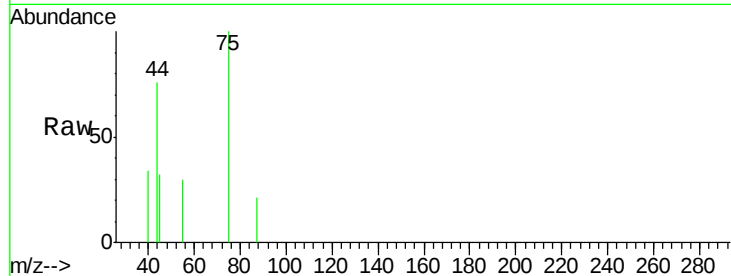
ClientSampleId :

Tot Ion: 75 Resp: 1036

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

7.82

400

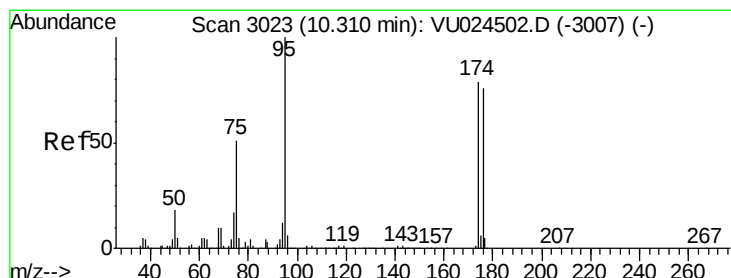
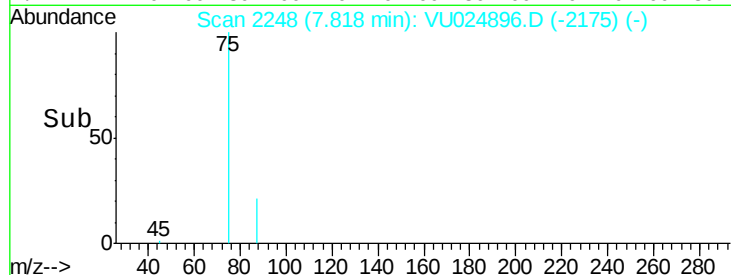
300

200

100

0

Time--> 7.75 7.80 7.85



#62

4-Bromofluorobenzene

Concen: 46.05 ug/l

RT: 10.32 min Scan# 3025

Delta R.T. 0.01 min

Lab File: VU024896.D

Acq: 26 Jun 2018 00:13

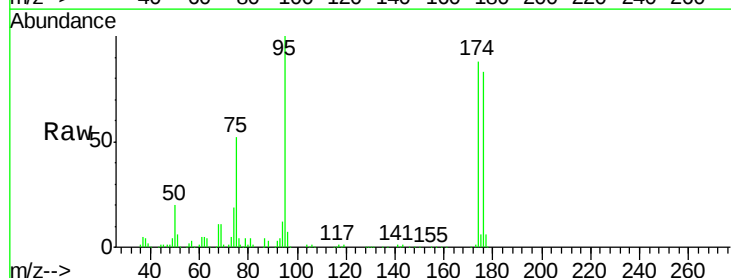
Tgt Ion: 95 Resp: 188953

Ion Ratio Lower Upper

95 100

174 84.4 0.0 165.8

176 82.0 0.0 159.4



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

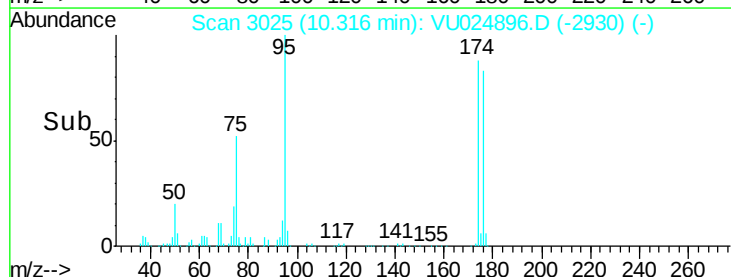
150000

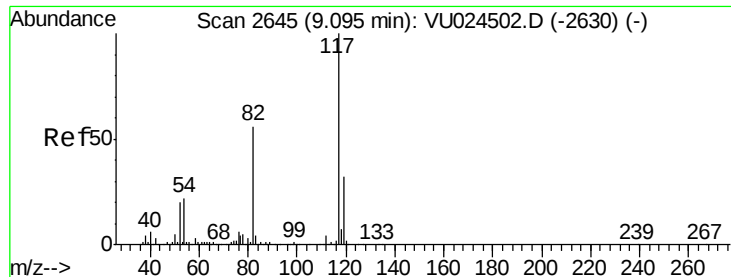
100000

50000

0

Time--> 10.30 10.40

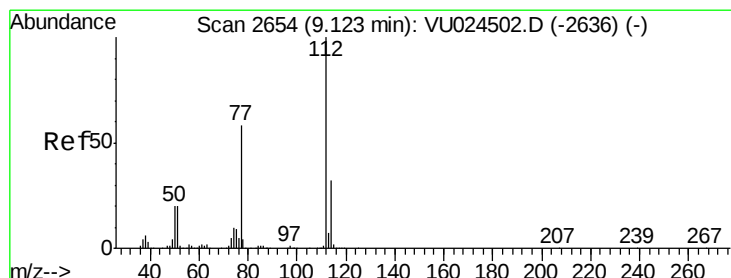
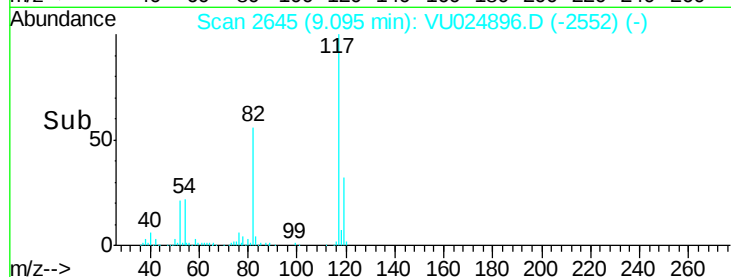
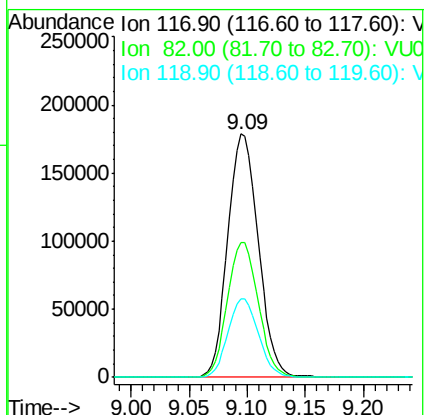
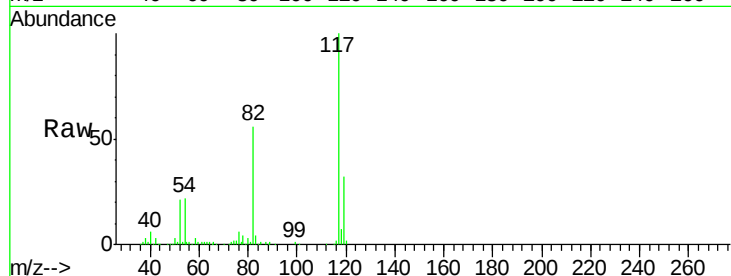




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU024896.D
Acq: 26 Jun 2018 00:13

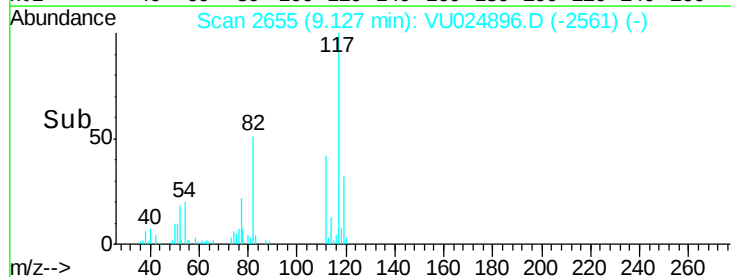
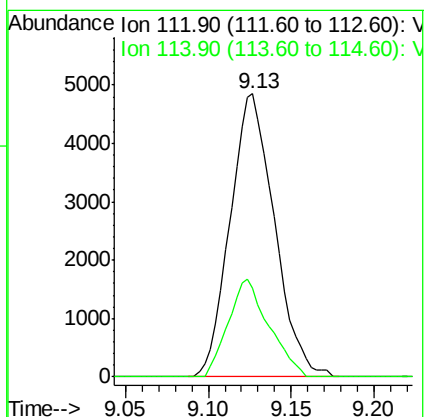
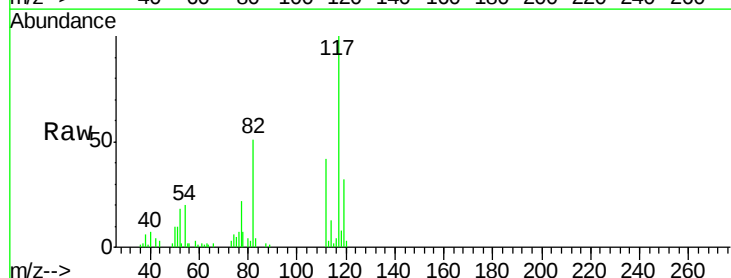
Instrument :
MSVOA_U
ClientSampleId :

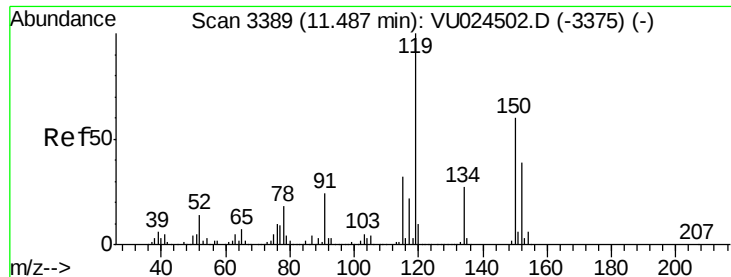
Tot Ion	Ratio	Lower	Upper
117	100		
82	55.6	44.3	66.5
119	32.5	25.4	38.2



#65
Chlorobenzene
Concen: 1.08 ug/l
RT: 9.13 min Scan# 2655
Delta R.T. 0.00 min
Lab File: VU024896.D
Acq: 26 Jun 2018 00:13

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.2	25.6	38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VU024896.D

Acq: 26 Jun 2018 00:13

Instrument :

MSVOA_U

ClientSampleId :

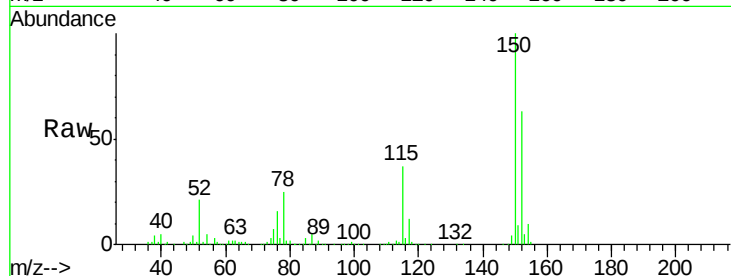
Tot Ion:152 Resp: 177317

Ion Ratio Lower Upper

152 100

115 58.3 43.0 129.0

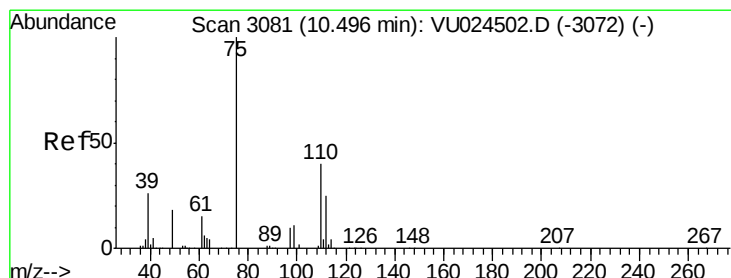
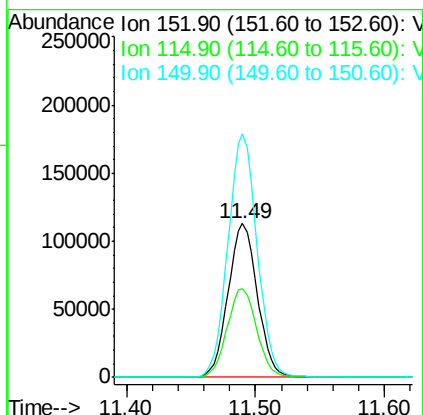
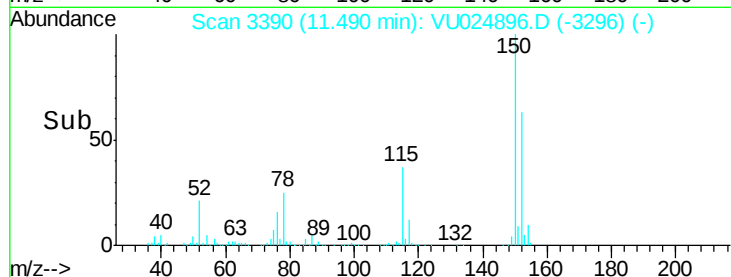
150 157.7 0.0 354.0



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: 25.25 ug/l

RT: 10.32 min Scan# 3025

Delta R.T. -0.18 min

Lab File: VU024896.D

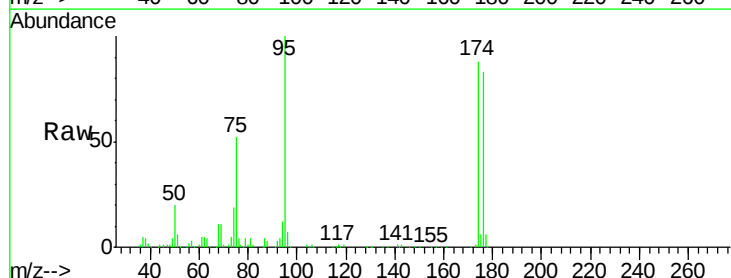
Acq: 26 Jun 2018 00:13

Tgt Ion: 75 Resp: 98588

Ion Ratio Lower Upper

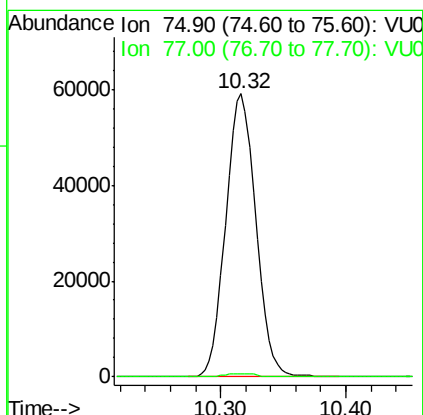
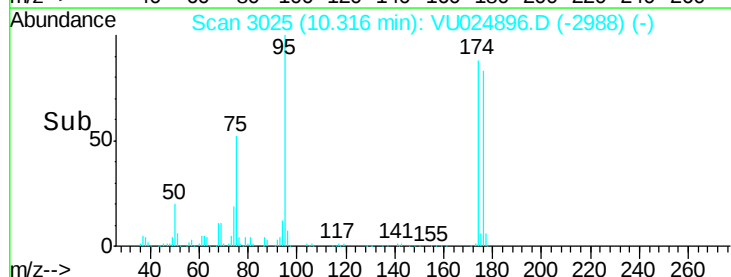
75 100

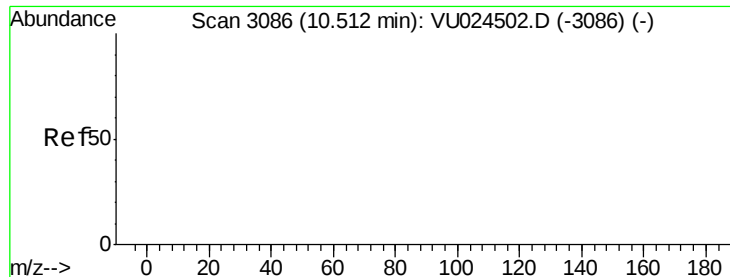
77 1.2 20.9 62.7#



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: 58.45 ug/l

RT: 10.32 min Scan# 3025

Delta R.T. -0.20 min

Lab File: VU024896.D

Acq: 26 Jun 2018 00:13

Instrument :

MSVOA_U

ClientSampleId :

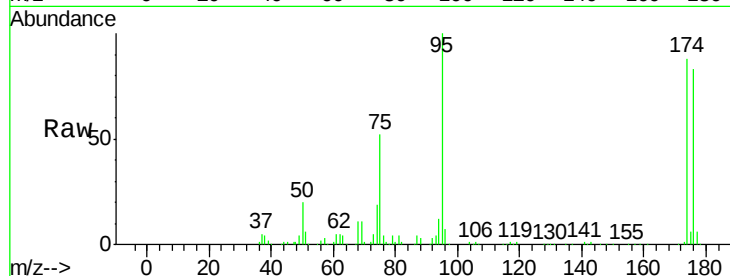
Tot Ion: 75 Resp: 98588

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

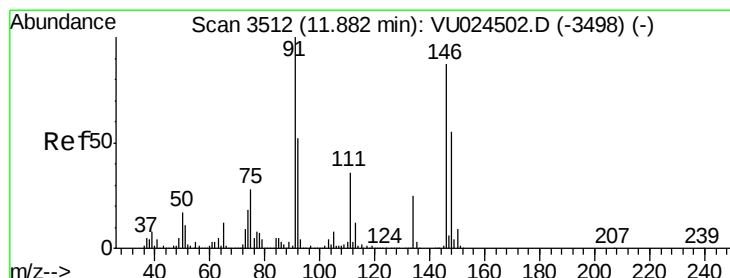
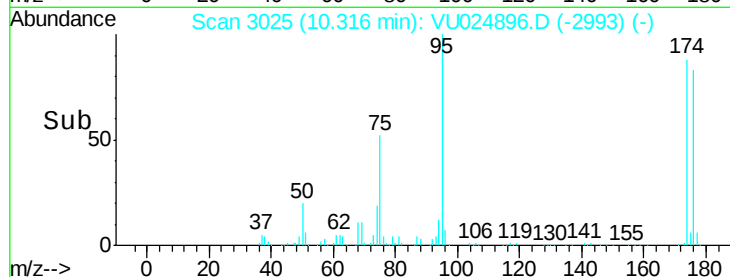
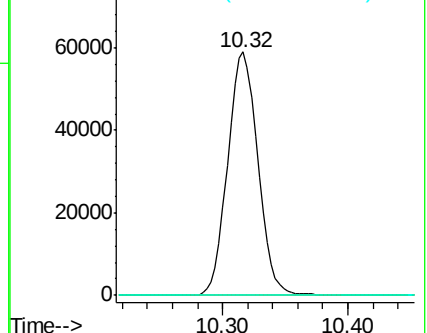
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU024502.D (-3086) (-)

Ion 53.00 (52.70 to 53.70): VU024502.D (-3086) (-)

Ion 88.90 (88.60 to 89.60): VU024502.D (-3086) (-)



#91

1,2-Dichlorobenzene

Concen: 0.28 ug/l

RT: 11.89 min Scan# 3514

Delta R.T. 0.01 min

Lab File: VU024896.D

Acq: 26 Jun 2018 00:13

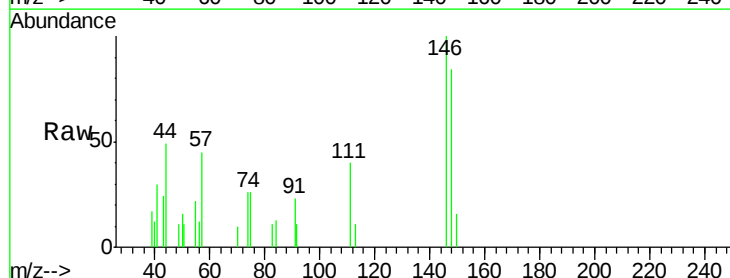
Tgt Ion: 146 Resp: 1754

Ion Ratio Lower Upper

146 100

111 39.2 20.5 61.6

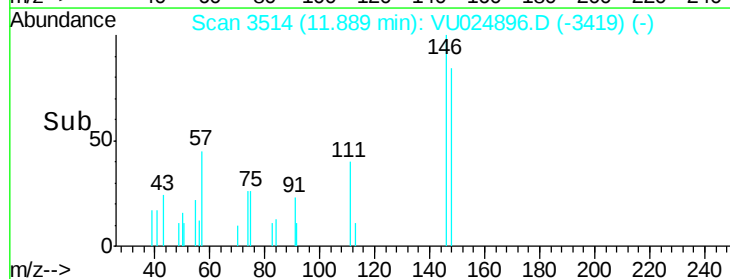
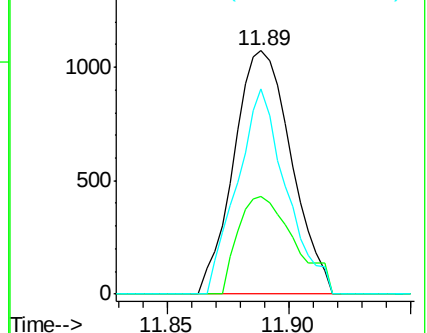
148 71.9 31.9 95.7

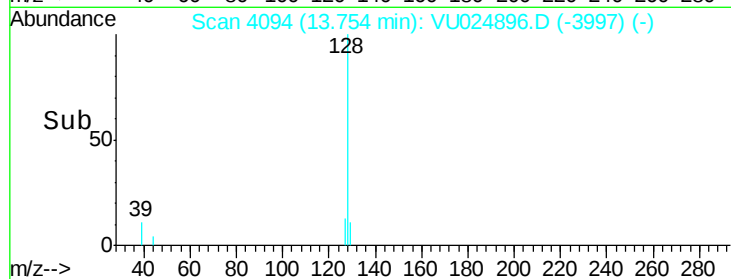
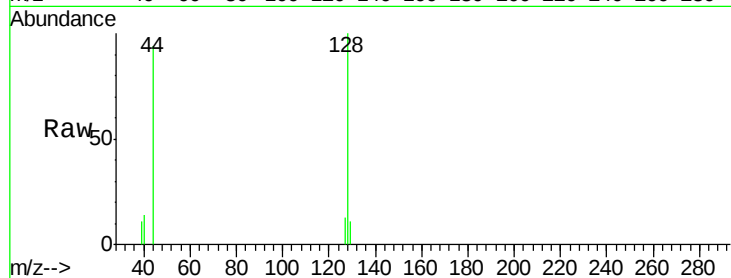
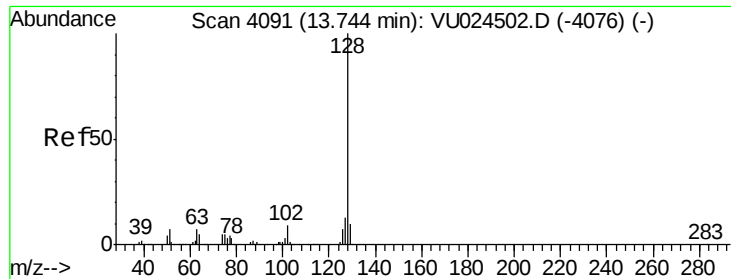


Abundance Ion 145.90 (145.60 to 146.60): VU024502.D (-3498) (-)

Ion 110.90 (110.60 to 111.60): VU024502.D (-3498) (-)

Ion 147.90 (147.60 to 148.60): VU024502.D (-3498) (-)





#95

Naphthalene

Concen: 0.76 ug/l

RT: 13.75 min Scan# 4094

Delta R.T. 0.01 min

Lab File: VU024896.D

Acq: 26 Jun 2018 00:13

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion:128 Resp: 1043

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 3.7 8.6 12.8#

