

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU070718\
 Data File : VU025245.D
 Acq On : 06 Jul 2018 17:16
 Operator : MD/SY
 Sample : J3808-15DL2 1000X
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 06 23:30:19 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	4.99	168	207014	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	305815	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	288844	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	157355	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	155547	46.03	ug/l	0.00
Spiked Amount			Recovery	=	92.06%	
35) Dibromofluoromethane	4.89	113	120655	47.54	ug/l	0.00
Spiked Amount			Recovery	=	95.08%	
50) Toluene-d8	7.57	98	442992	47.85	ug/l	0.00
Spiked Amount			Recovery	=	95.70%	
62) 4-Bromofluorobenzene	10.31	95	167419	45.55	ug/l	0.00
Spiked Amount			Recovery	=	91.10%	

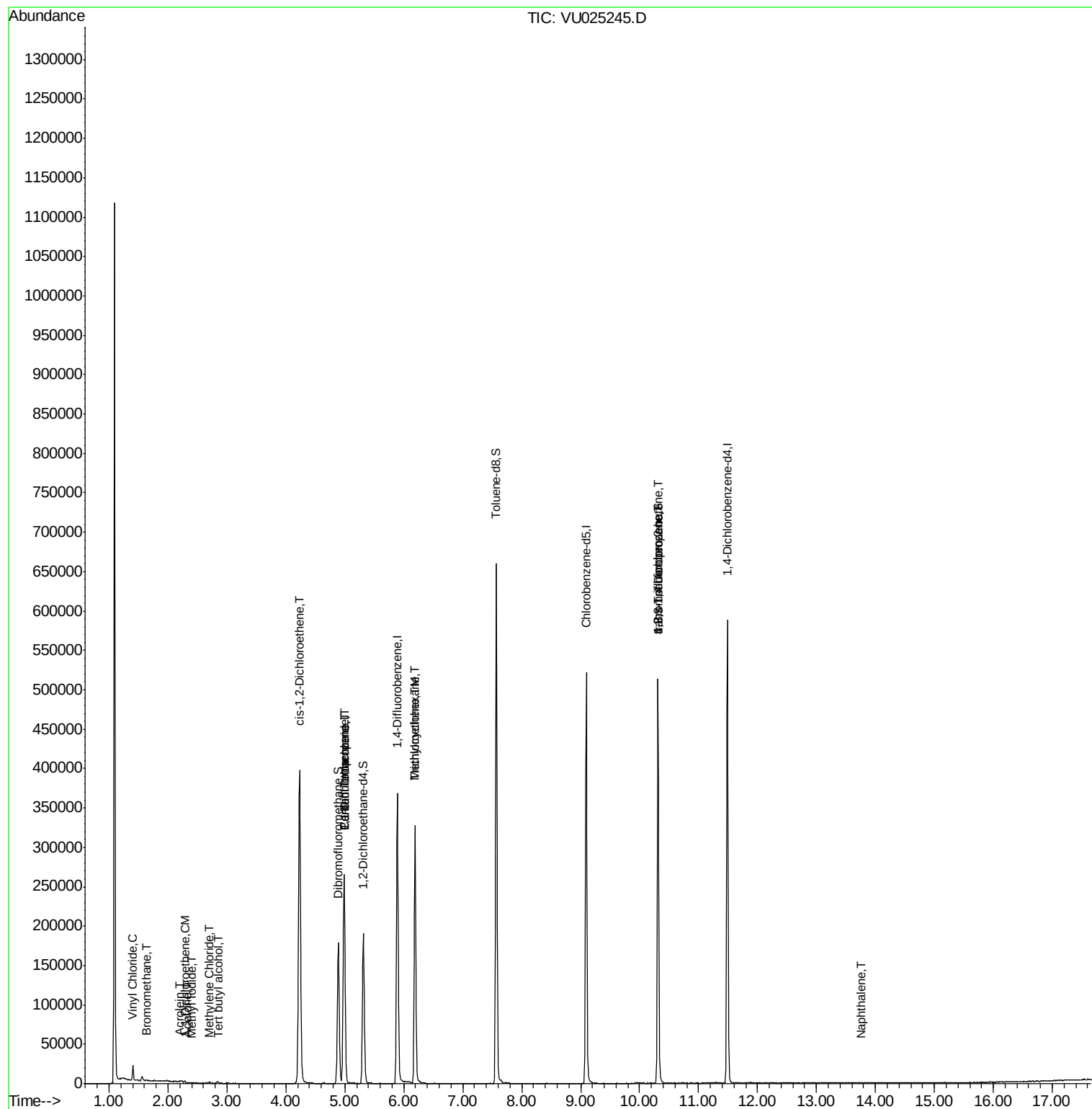
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	11660	4.271	ug/l	93
5) Bromomethane	1.64	94	351	0.266	ug/l	84
6) Chloroethane	1.53	64	142	Below Cal	#	43
10) Methyl Iodide	2.42	142	67	5.316	ug/l #	40
11) Tert butyl alcohol	2.84	59	1547	1.882	ug/l #	79
12) 1,1-Dichloroethene	2.29	96	763	0.324	ug/l #	77
13) Acrolein	2.18	56	132	0.306	ug/l #	1
16) Acetone	2.32	43	852	0.469	ug/l #	81
20) Methylene Chloride	2.70	84	688	0.241	ug/l #	78
27) cis-1,2-Dichloroethene	4.23	96	225276	75.477	ug/l	87
31) Cyclohexane	4.99	56	4323	Below Cal	#	15
36) 1,1-Dichloropropene	4.99	75	15122	4.208	ug/l #	51
38) Carbon Tetrachloride	4.99	117	20273	5.130	ug/l #	15
39) Methylcyclohexane	6.19	83	1398	0.312	ug/l #	1
44) Trichloroethene	6.19	130	114707	39.361	ug/l	92
76) 1,2,3-Trichloropropane	10.31	75	89529	25.843	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	89529	59.811	ug/l #	100
95) Naphthalene	13.76	128	210	0.697	ug/l #	69

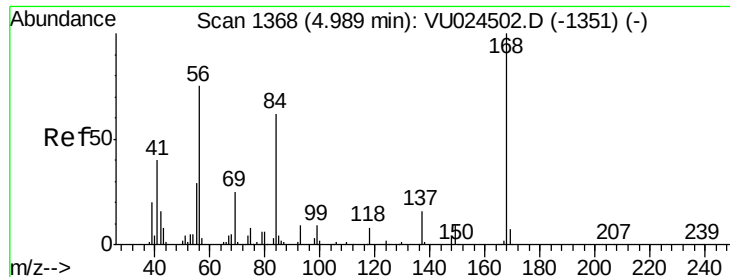
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU025245.D

Acq: 06 Jul 2018 17:16

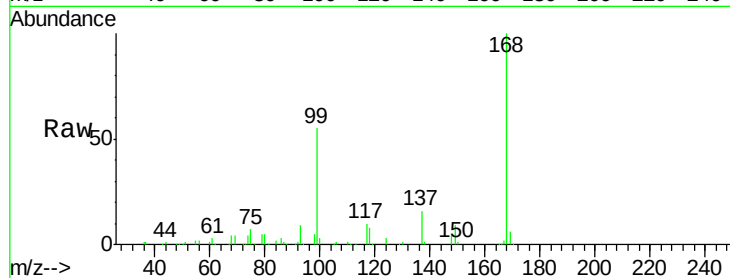
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 207014

Ion Ratio Lower Upper

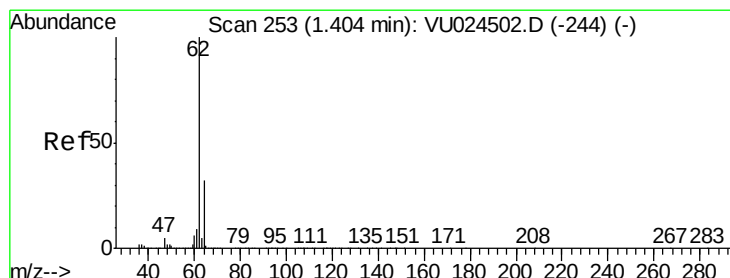
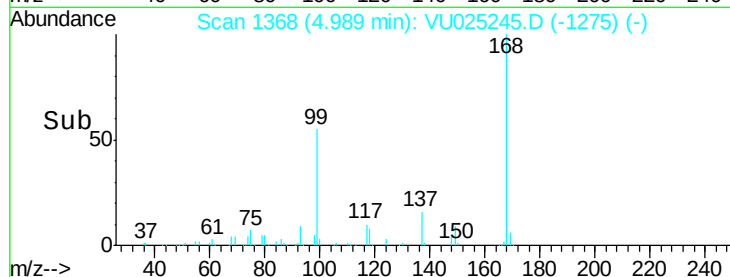
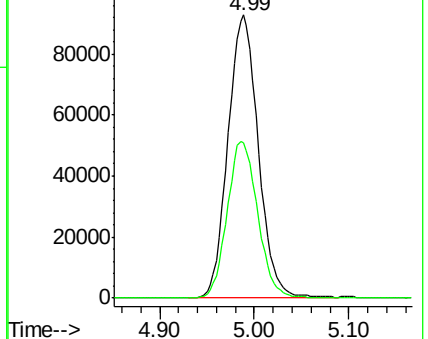
168 100

99 54.8 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

Vinyl Chloride

Concen: 4.271 ug/l

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU025245.D

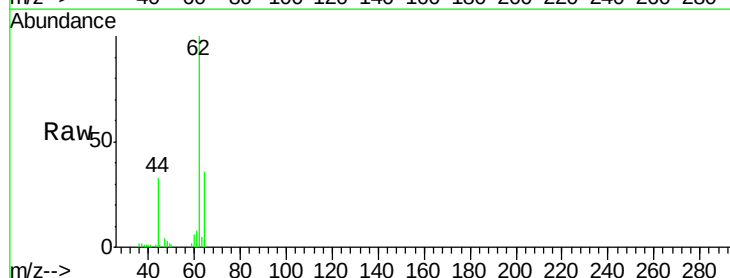
Acq: 06 Jul 2018 17:16

Tgt Ion: 62 Resp: 11660

Ion Ratio Lower Upper

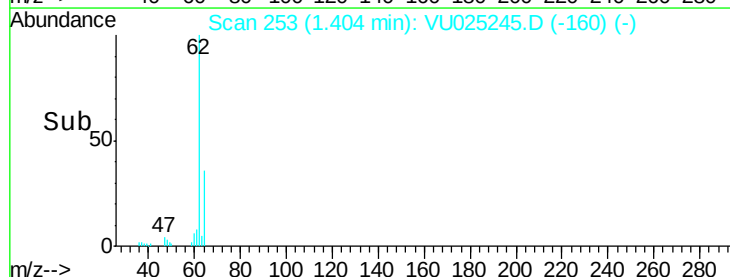
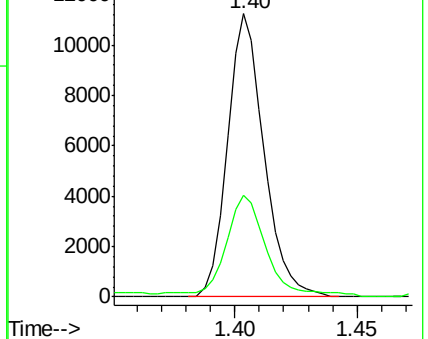
62 100

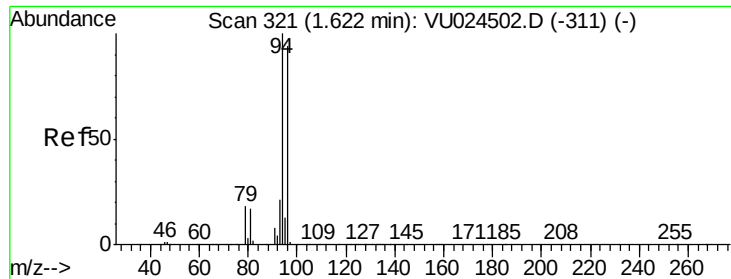
64 34.7 24.8 37.2



Abundance Ion 61.90 (61.60 to 62.60): VU024502.D (-244) (-)

Ion 63.90 (63.60 to 64.60): VU024502.D (-244) (-)





#5

Bromomethane

Concen: 0.266 ug/l

RT: 1.64 min Scan# 327

Delta R.T. 0.02 min

Lab File: VU025245.D

Acq: 06 Jul 2018 17:16

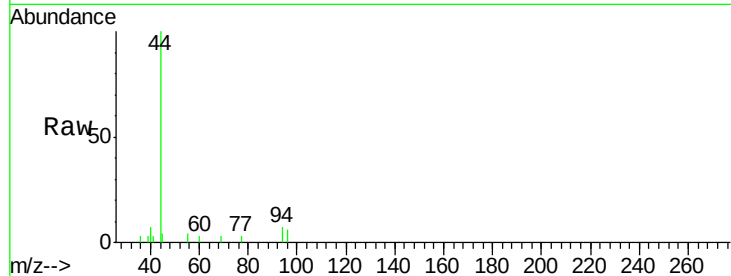
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 94 Resp: 351

Ion Ratio Lower Upper

94 100

96 77.3 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

1.64

250

200

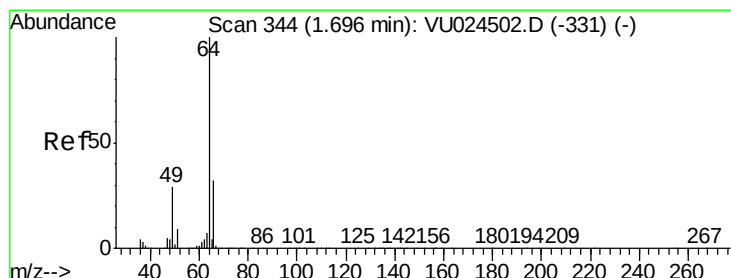
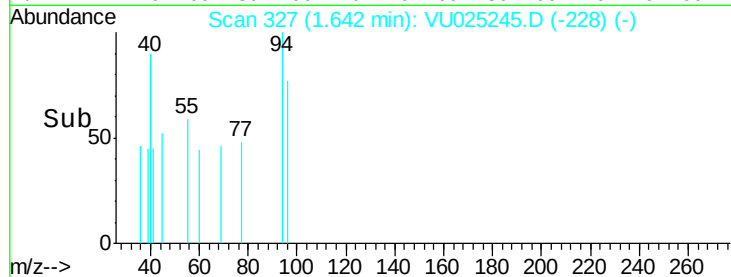
150

100

50

0

Time--> 1.60 1.62 1.64 1.66



#6

Chloroethane

Concen: Below Cal

RT: 1.53 min Scan# 293

Delta R.T. -0.16 min

Lab File: VU025245.D

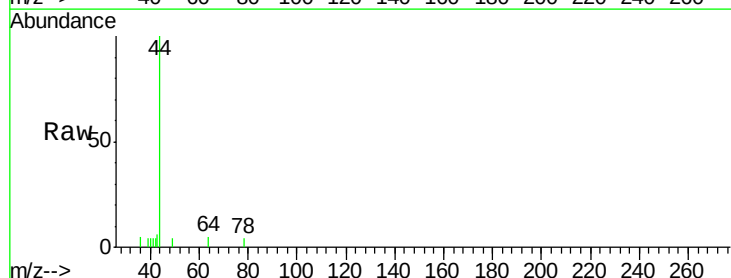
Acq: 06 Jul 2018 17:16

Tgt Ion: 64 Resp: 142

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0

200

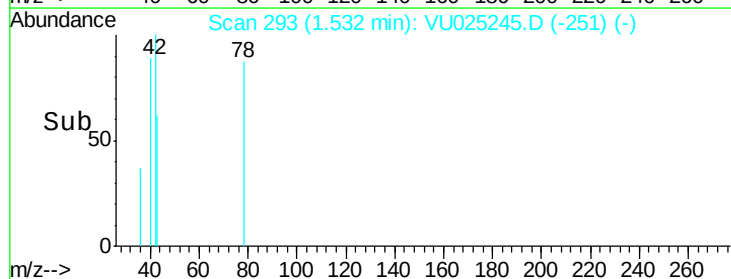
150

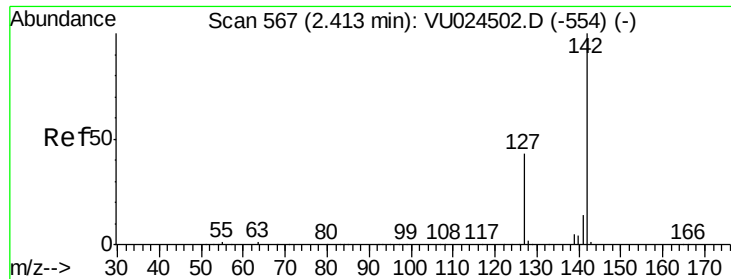
100

50

0

Time--> 1.52 1.53 1.54 1.55

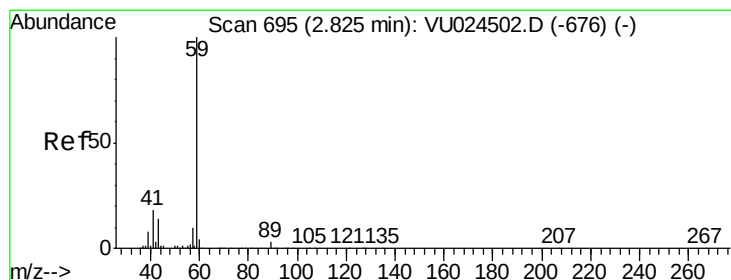
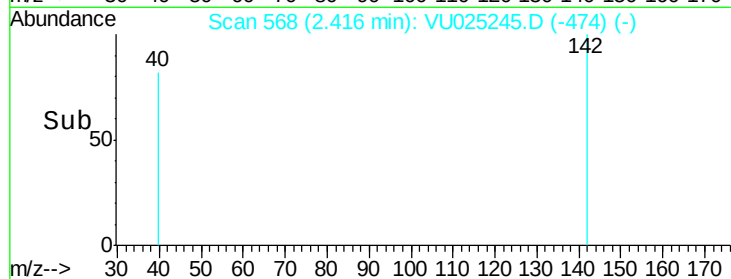
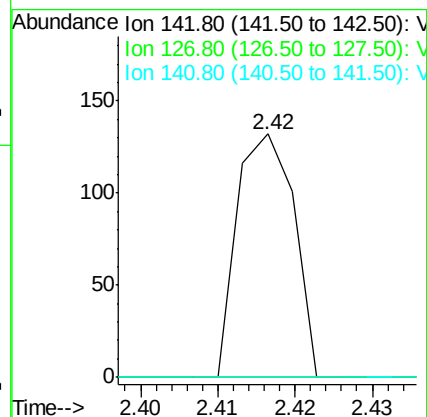
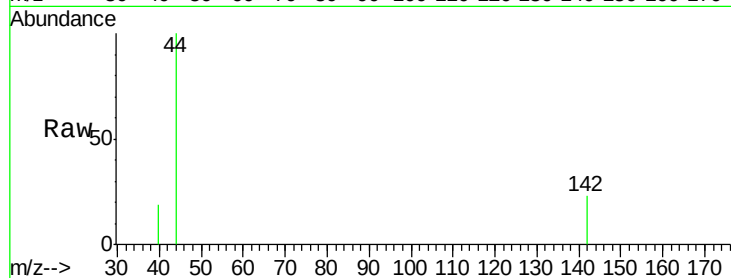




#10
Methvl Iodide
Concen: 5.316 ug/l
RT: 2.42 min Scan# 568
Delta R.T. 0.00 min
Lab File: VU025245.D
Acq: 06 Jul 2018 17:16

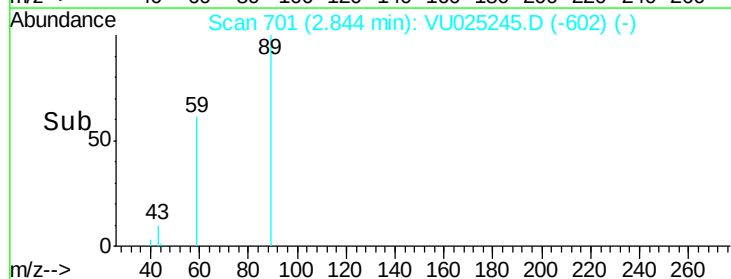
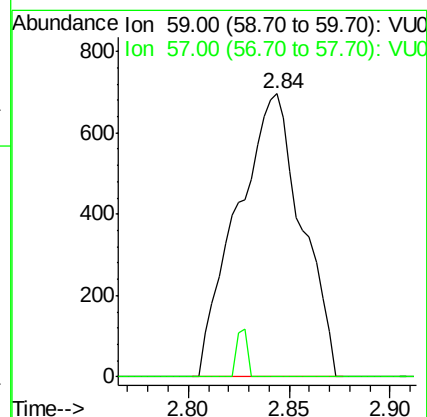
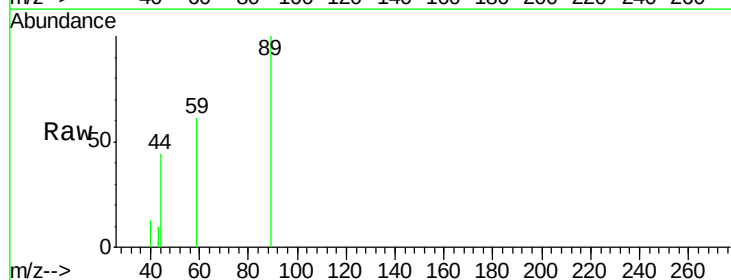
Instrument :
MSVOA_U
ClientSampleId :

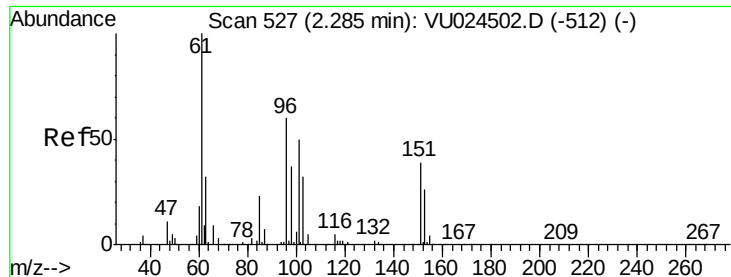
Tot Ion:142 Resp: 67
Ion Ratio Lower Upper
142 100
127 0.0 35.6 53.4#
141 0.0 11.7 17.5#



#11
Tert butyl alcohol
Concen: 1.882 ug/l
RT: 2.84 min Scan# 701
Delta R.T. 0.02 min
Lab File: VU025245.D
Acq: 06 Jul 2018 17:16

Tgt Ion: 59 Resp: 1547
Ion Ratio Lower Upper
59 100
57 2.8 8.5 12.7#

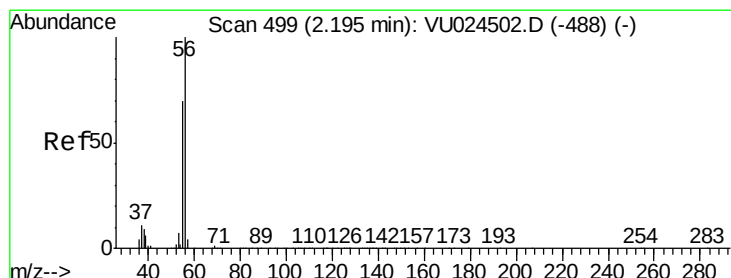
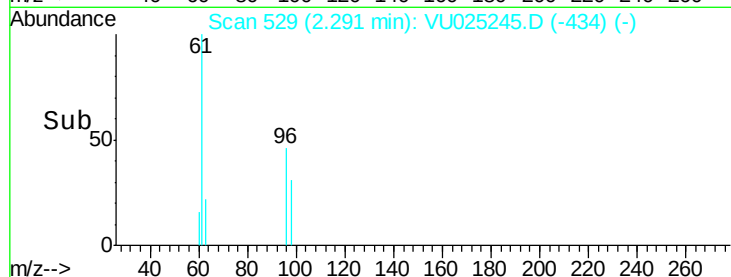
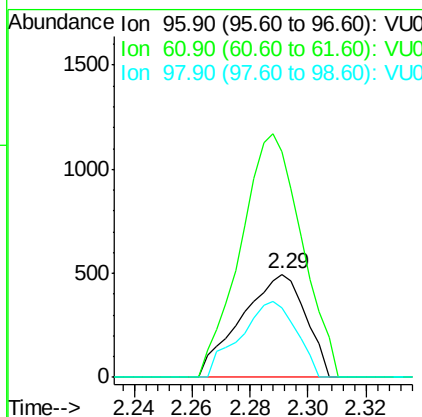
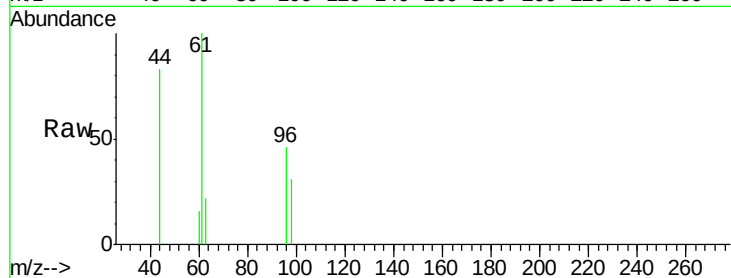




#12
1,1-Dichloroethene
Concen: 0.324 ug/l
RT: 2.29 min Scan# 529
Delta R.T. 0.01 min
Lab File: VU025245.D
Acq: 06 Jul 2018 17:16

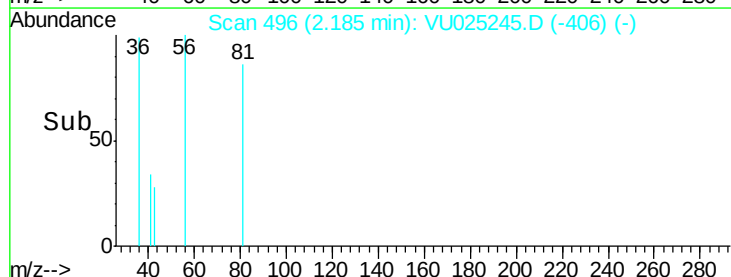
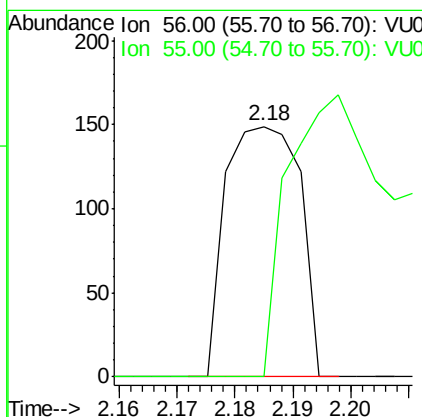
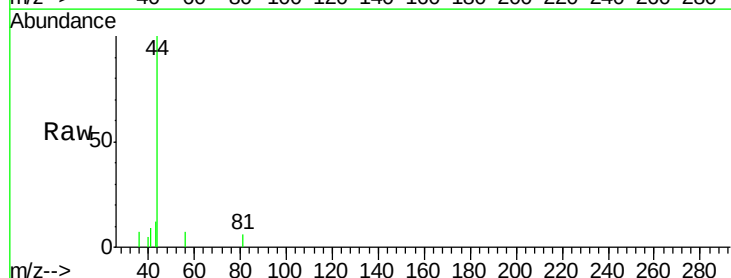
Instrument :
MSVOA_U
ClientSampleId :

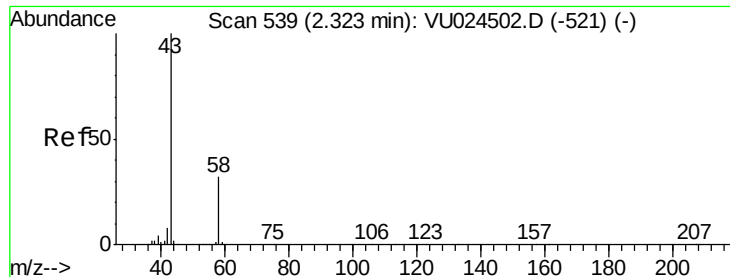
Tot Ion: 96 Resp: 763
Ion Ratio Lower Upper
96 100
61 219.0 141.7 212.5#
98 67.4 51.6 77.4



#13
Acrolein
Concen: 0.306 ug/l
RT: 2.18 min Scan# 496
Delta R.T. -0.01 min
Lab File: VU025245.D
Acq: 06 Jul 2018 17:16

Tgt Ion: 56 Resp: 132
Ion Ratio Lower Upper
56 100
55 170.5 58.4 87.6#





#16

Acetone

Concen: 0.469 ug/l

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU025245.D

Acq: 06 Jul 2018 17:16

Instrument :

MSVOA_U

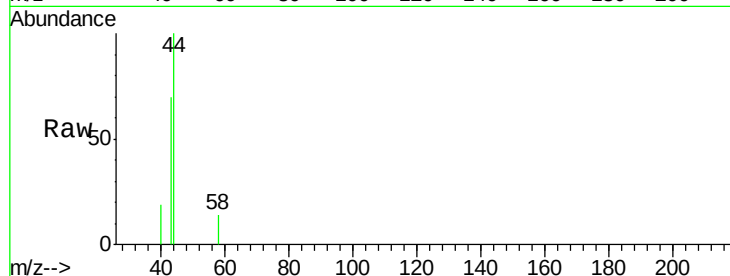
ClientSampled :

Tot Ion: 43 Resp: 852

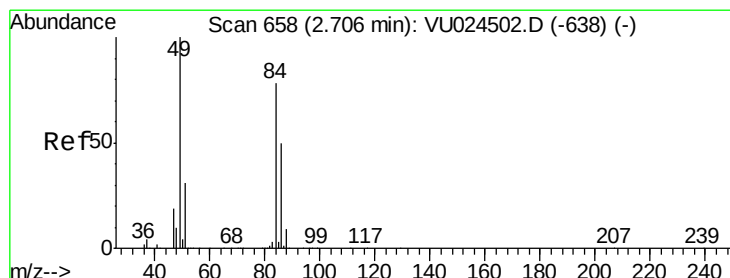
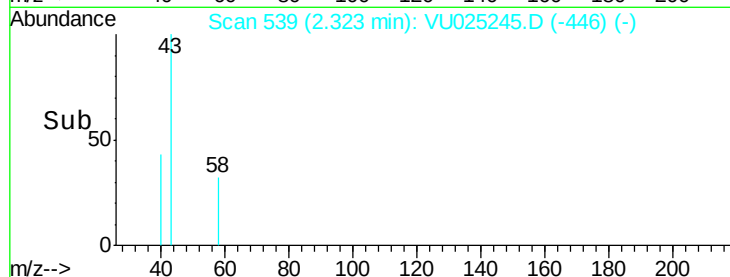
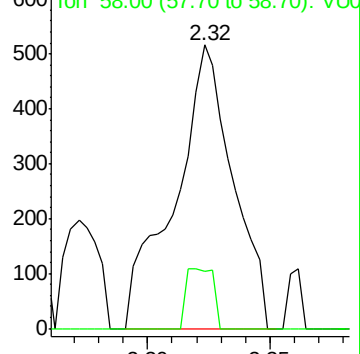
Ion Ratio Lower Upper

43 100

58 20.2 24.4 36.6#



Abundance Ion 43.00 (42.70 to 43.70): VU024502.D (-521) (-)



#20

Methylene Chloride

Concen: 0.241 ug/l

RT: 2.70 min Scan# 657

Delta R.T. -0.00 min

Lab File: VU025245.D

Acq: 06 Jul 2018 17:16

Tgt Ion: 84 Resp: 688

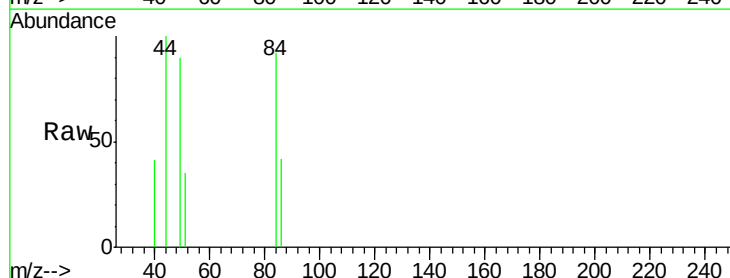
Ion Ratio Lower Upper

84 100

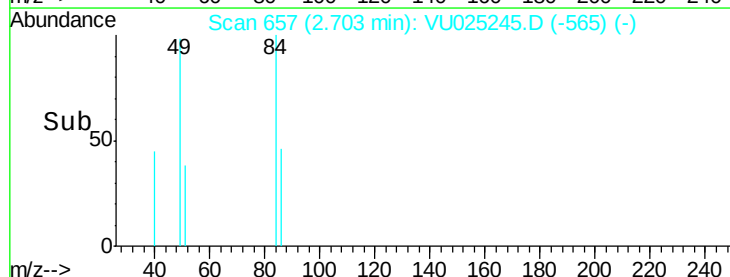
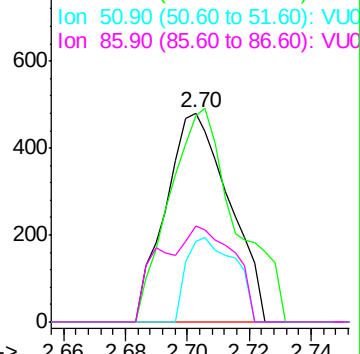
49 98.3 103.8 155.8#

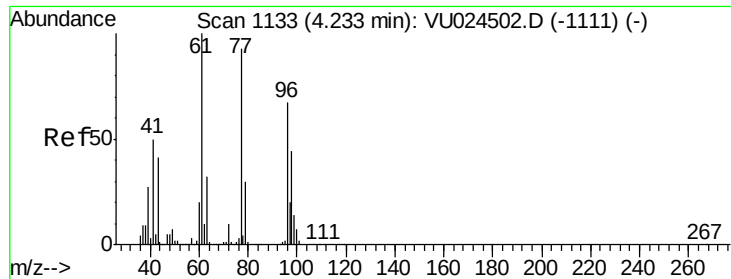
51 38.5 32.0 48.0

86 46.2 51.6 77.4#



Abundance Ion 83.90 (83.60 to 84.60): VU024502.D (-638) (-)





#27

cis-1,2-Dichloroethene

Concen: 75.477 ug/l

RT: 4.23 min Scan# 1132

Delta R.T. -0.00 min

Lab File: VU025245.D

Acq: 06 Jul 2018 17:16

Instrument :
MSVOA_U
ClientSampleId :

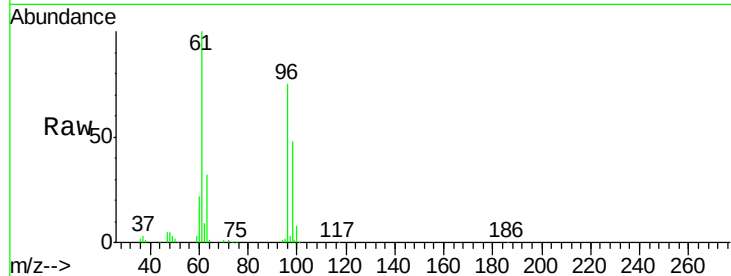
Tot Ion: 96 Resp: 225276

Ion	Ratio	Lower	Upper
96	100		
61	130.6	0.0	306.6
98	63.3	0.0	128.8

96 100

61 130.6 0.0 306.6

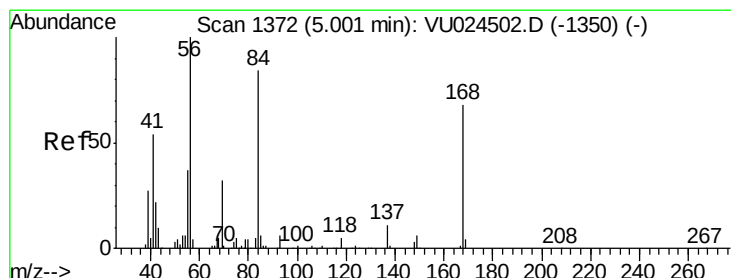
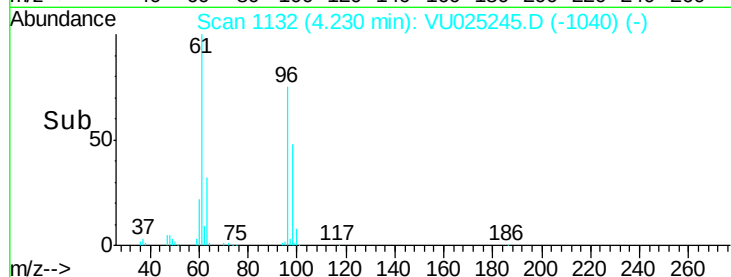
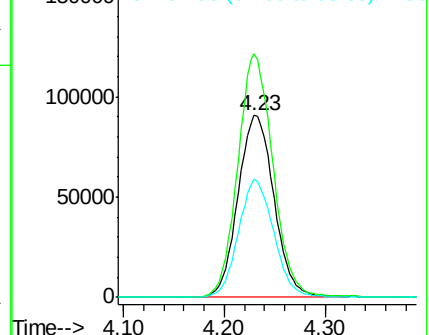
98 63.3 0.0 128.8



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: 4.99 min Scan# 1367

Delta R.T. -0.02 min

Lab File: VU025245.D

Acq: 06 Jul 2018 17:16

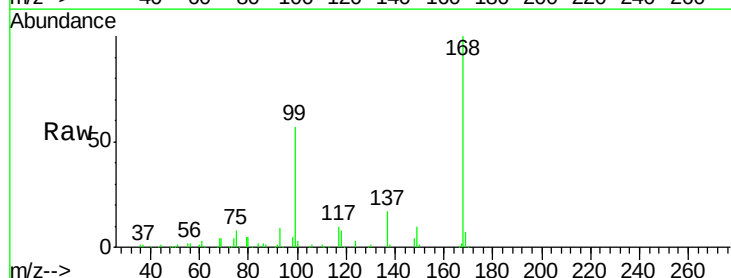
Tgt Ion: 56 Resp: 4323

Ion	Ratio	Lower	Upper
56	100		
69	158.9	24.8	37.2#
84	106.6	65.2	97.8#

56 100

69 158.9 24.8 37.2#

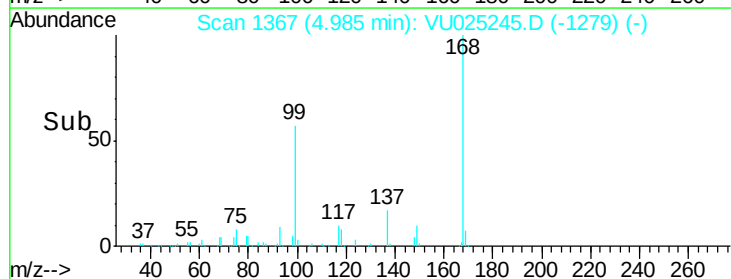
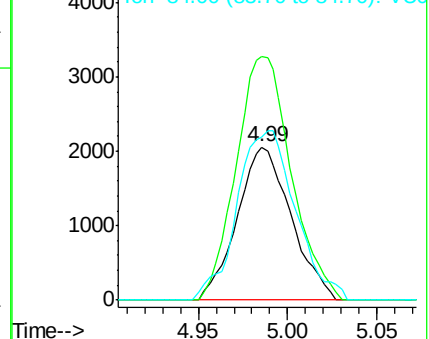
84 106.6 65.2 97.8#

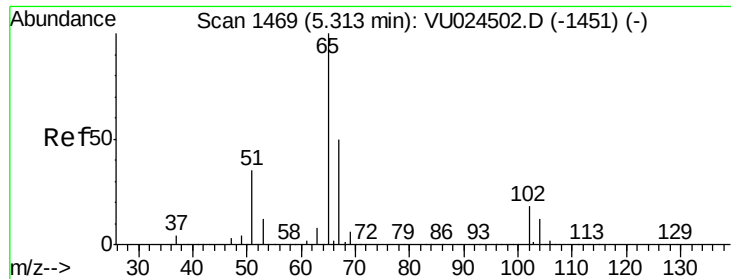


Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0

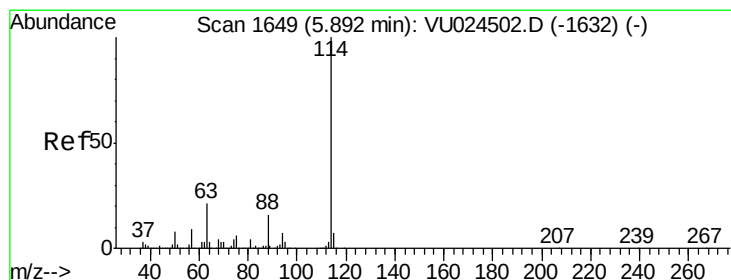
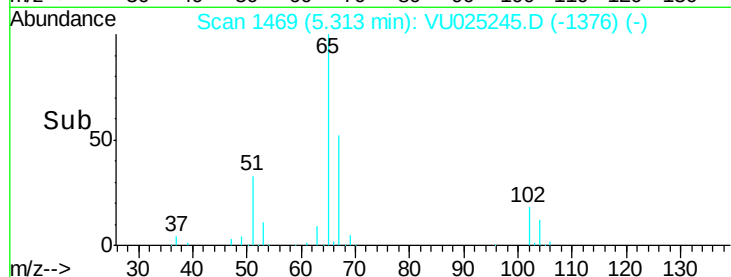
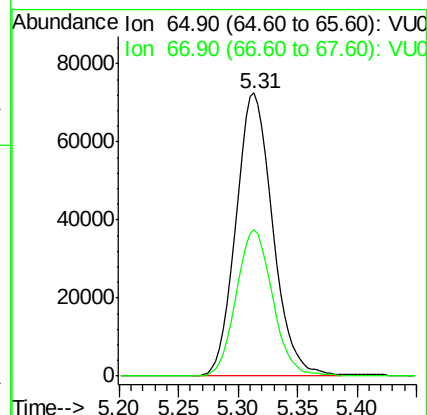
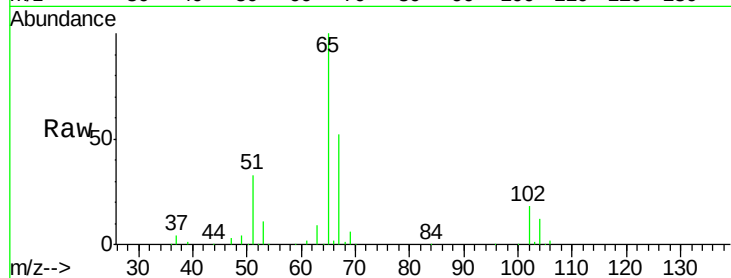




#33
 1,2-Dichloroethane-d4
 Concen: 46.026 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VU025245.D
 Acq: 06 Jul 2018 17:16

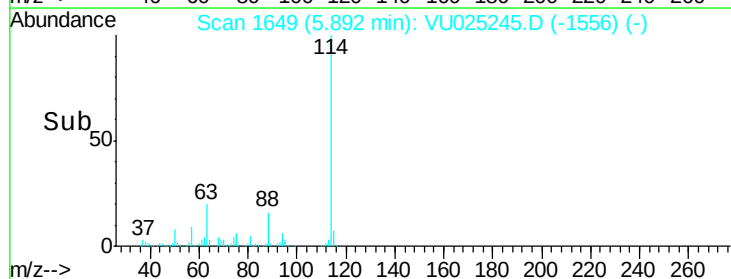
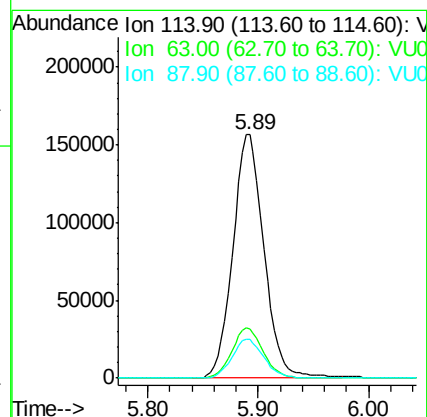
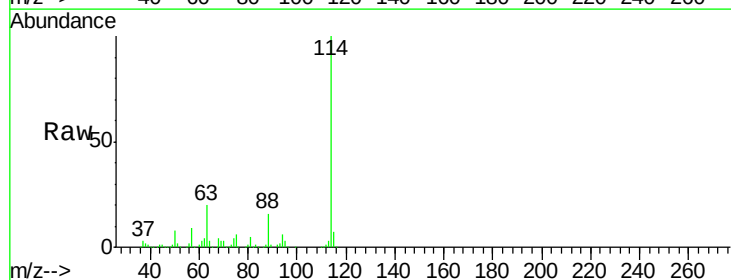
Instrument :
 MSVOA_U
 ClientSampleId :

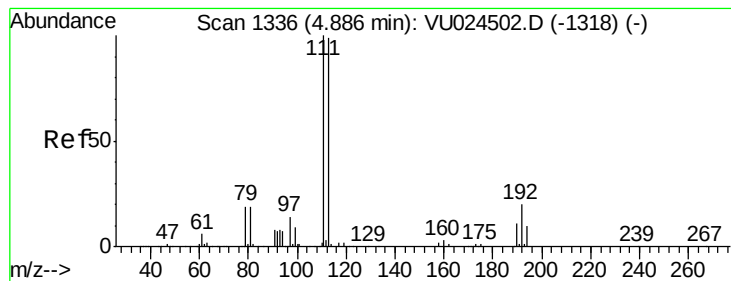
Tot Ion: 65 Resp: 155547
 Ion Ratio Lower Upper
 65 100
 67 51.4 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1649
 Delta R.T. 0.00 min
 Lab File: VU025245.D
 Acq: 06 Jul 2018 17:16

Tgt Ion: 114 Resp: 305815
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 45.4
 88 15.7 0.0 31.0





#35

Dibromofluoromethane

Concen: 47.539 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU025245.D

Acq: 06 Jul 2018 17:16

Instrument :

MSVOA_U

ClientSampleId :

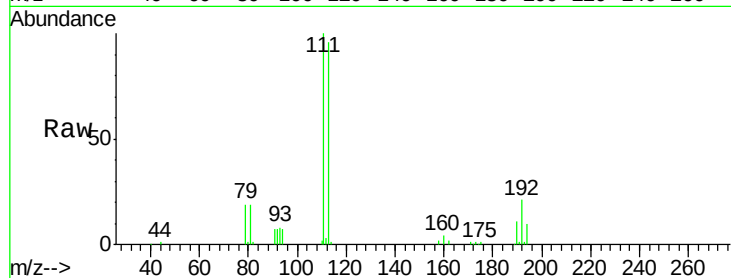
Tot Ion:113 Resp: 120655

Ion Ratio Lower Upper

113 100

111 102.7 82.2 123.4

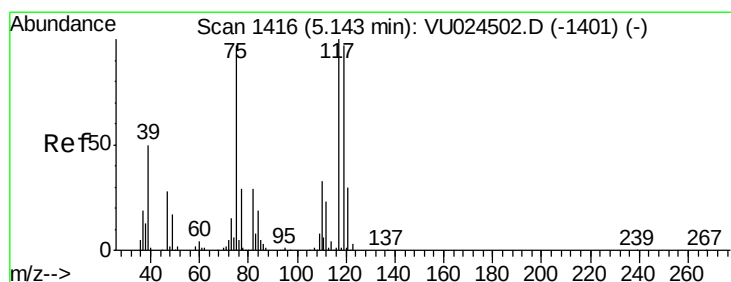
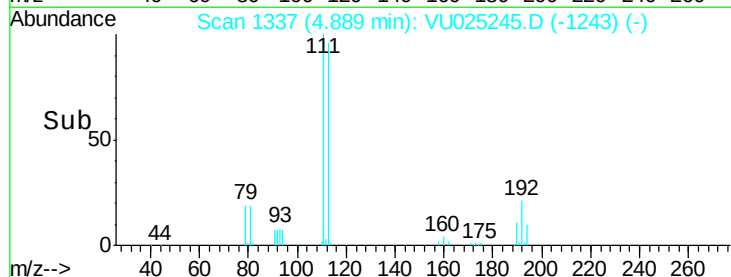
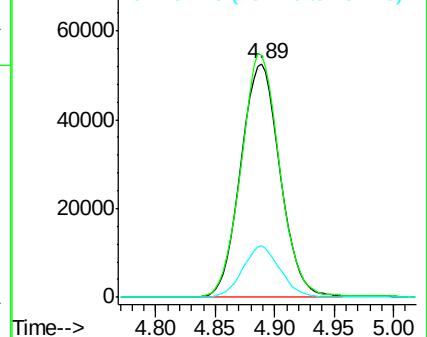
192 21.0 16.2 24.4



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: 4.208 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.16 min

Lab File: VU025245.D

Acq: 06 Jul 2018 17:16

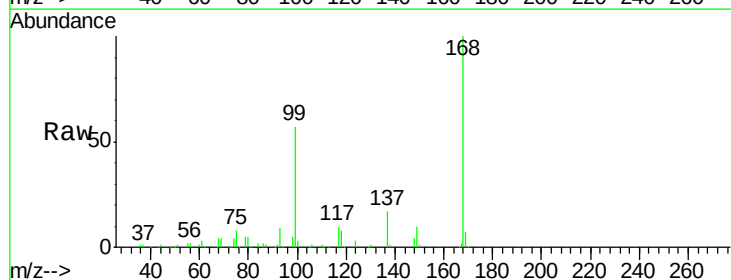
Tgt Ion: 75 Resp: 15122

Ion Ratio Lower Upper

75 100

110 9.0 17.0 50.9#

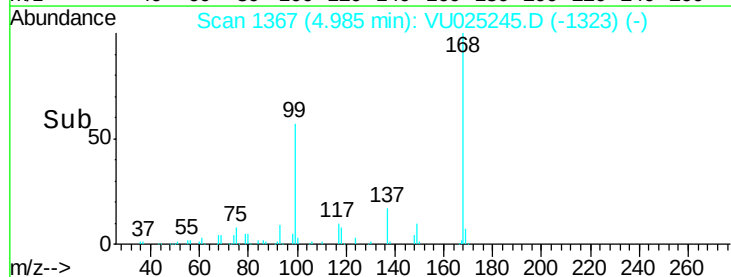
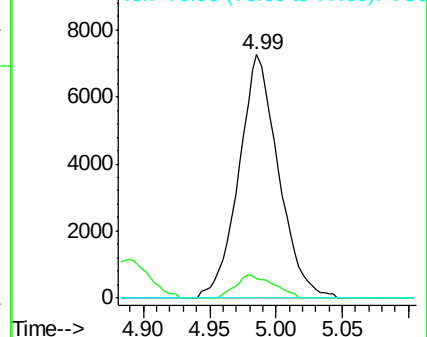
77 0.0 24.2 36.4#

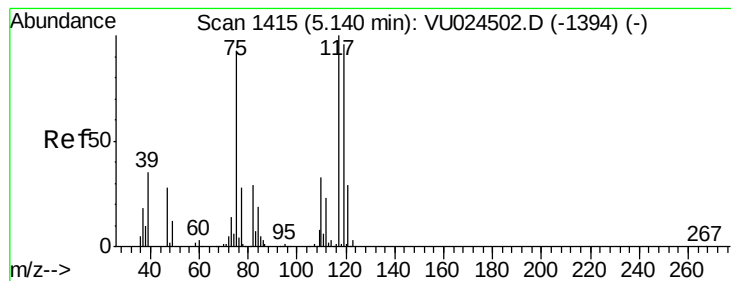


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0





#38

Carbon Tetrachloride

Concen: 5.130 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU025245.D

Acq: 06 Jul 2018 17:16

Instrument :

MSVOA_U

ClientSampleId :

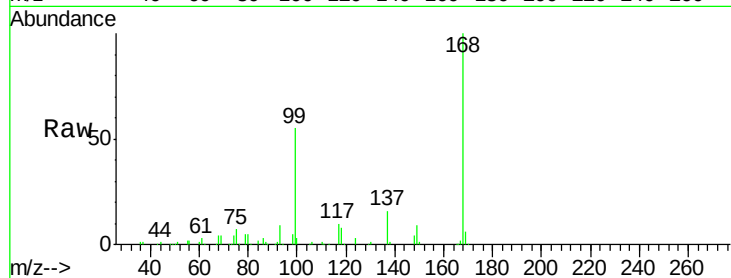
Tot Ion:117 Resp: 20273

Ion Ratio Lower Upper

117 100

119 4.0 76.1 114.1#

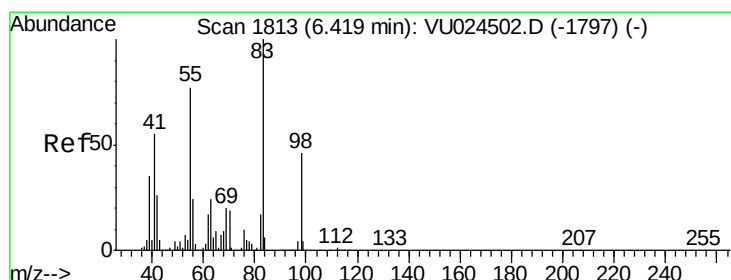
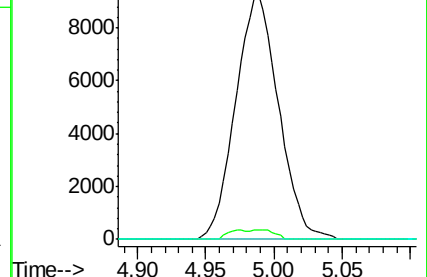
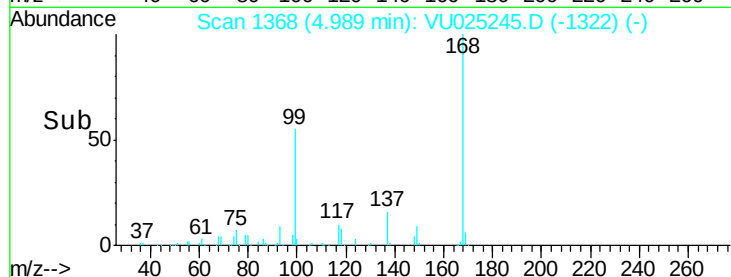
121 0.0 23.7 35.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 0.312 ug/l

RT: 6.19 min Scan# 1741

Delta R.T. -0.23 min

Lab File: VU025245.D

Acq: 06 Jul 2018 17:16

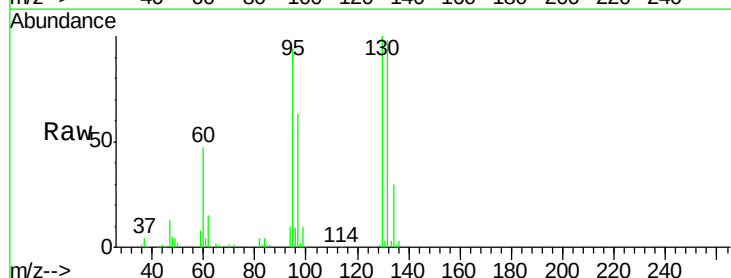
Tgt Ion: 83 Resp: 1398

Ion Ratio Lower Upper

83 100

55 0.0 65.8 98.6#

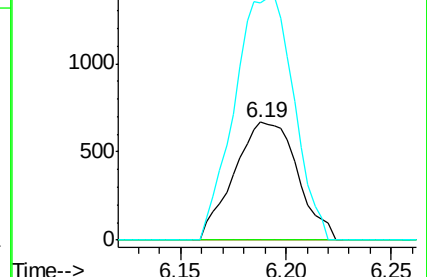
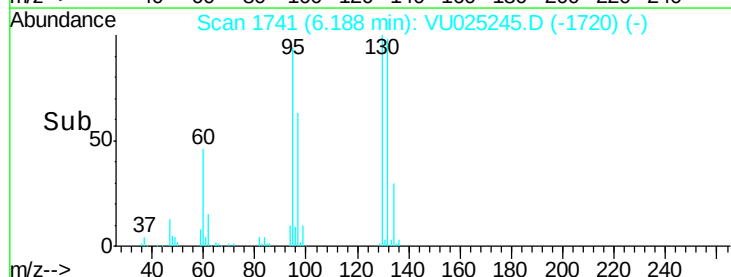
98 201.5 36.7 55.1#

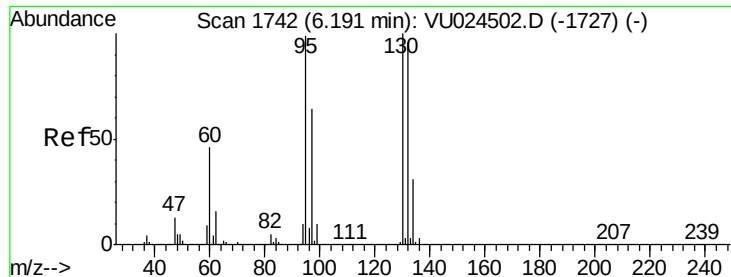


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#44

Trichloroethene

Concen: 39.361 ug/l

RT: 6.19 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VU025245.D

Acq: 06 Jul 2018 17:16

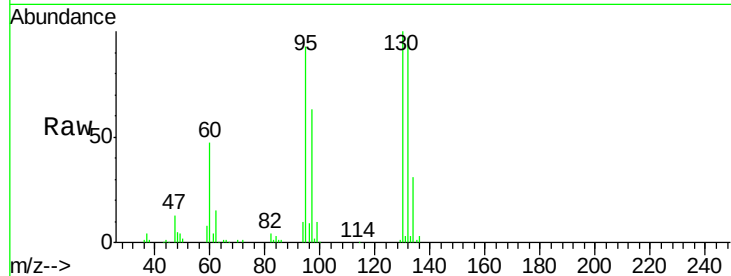
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:130 Resp: 114707

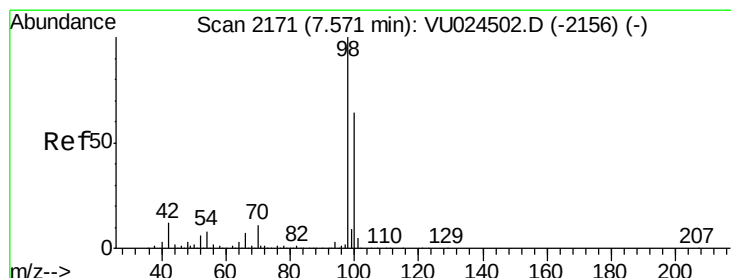
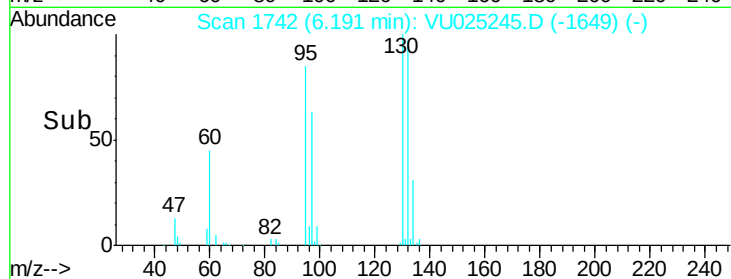
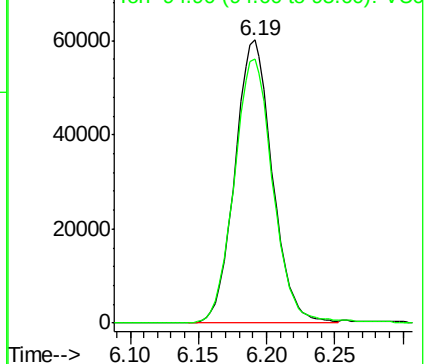
Ion Ratio Lower Upper

130 100

95 93.3 0.0 202.4



Abundance Ion 129.80 (129.50 to 130.50): VU024502.D (-1727) (-)



#50

Toluene-d8

Concen: 47.851 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VU025245.D

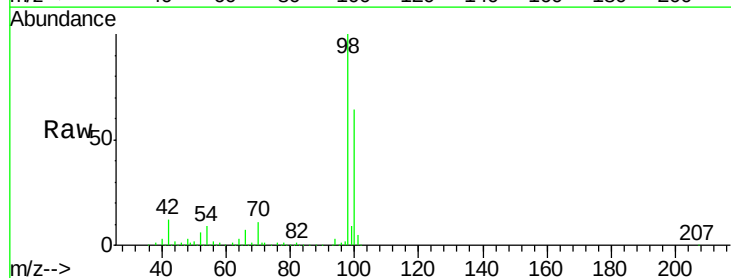
Acq: 06 Jul 2018 17:16

Tgt Ion: 98 Resp: 442992

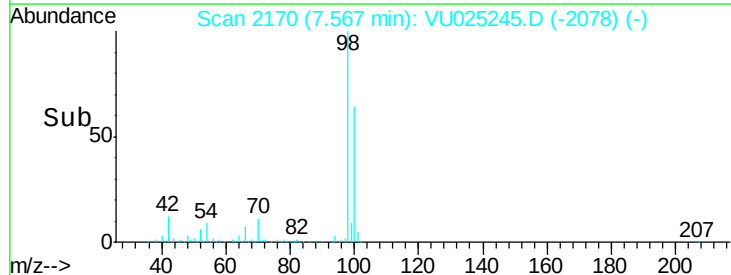
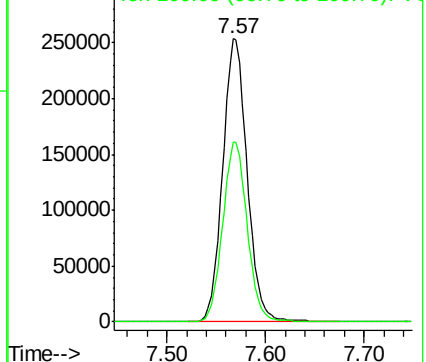
Ion Ratio Lower Upper

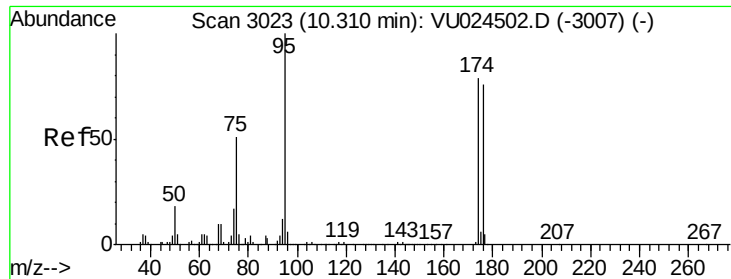
98 100

100 63.6 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU024502.D (-2156) (-)





#62

4-Bromofluorobenzene

Concen: 45.548 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU025245.D

Acq: 06 Jul 2018 17:16

Instrument :

MSVOA_U

ClientSampleId :

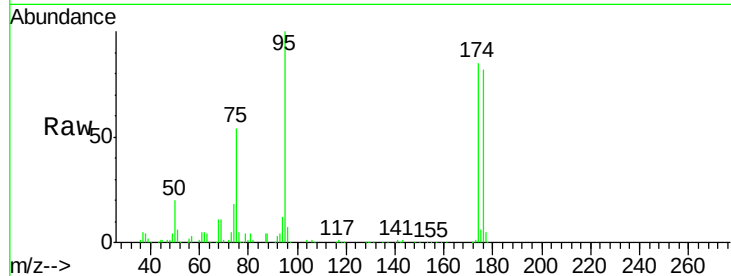
Tot Ion: 95 Resp: 167419

Ion Ratio Lower Upper

95 100

174 85.3 0.0 165.8

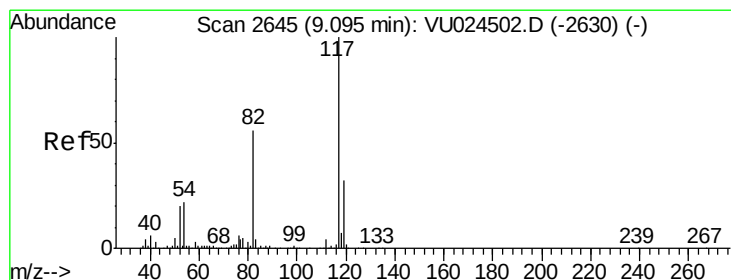
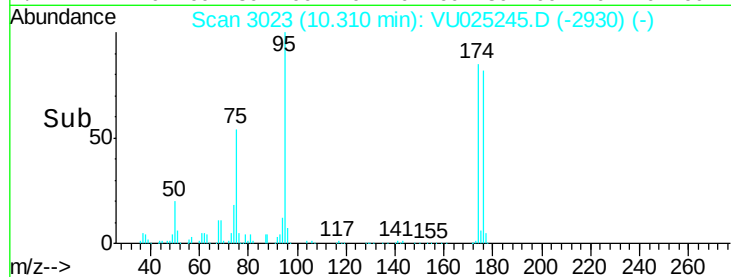
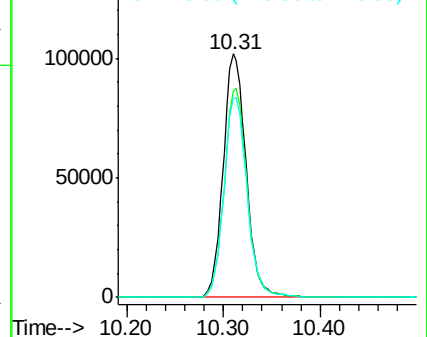
176 83.0 0.0 159.4



Abundance Ion 94.90 (94.60 to 95.60): VU024502.D (-3007) (-)

Ion 173.80 (173.50 to 174.50): VU024502.D (-3007) (-)

Ion 175.80 (175.50 to 176.50): VU024502.D (-3007) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VU025245.D

Acq: 06 Jul 2018 17:16

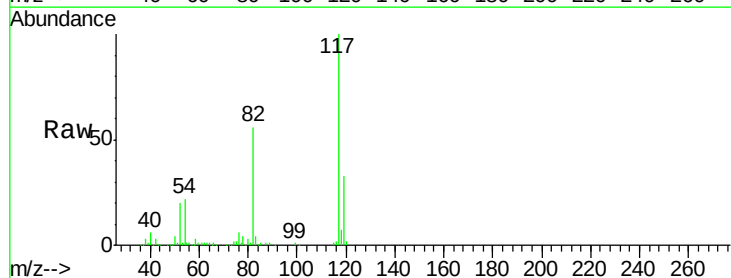
Tgt Ion: 117 Resp: 288844

Ion Ratio Lower Upper

117 100

82 56.2 44.3 66.5

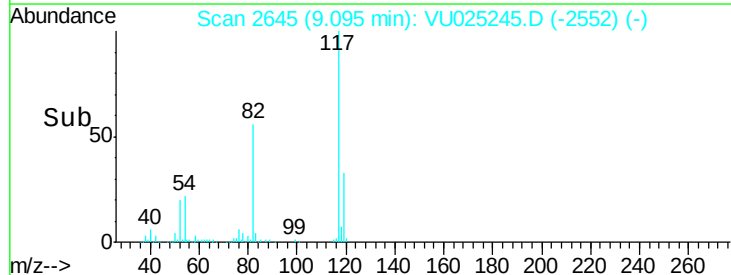
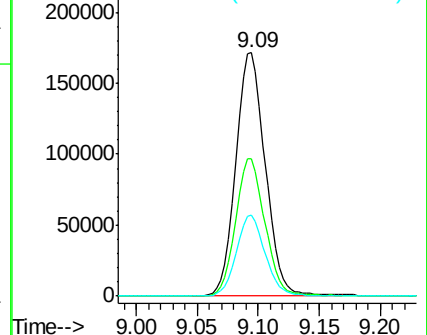
119 33.3 25.4 38.2

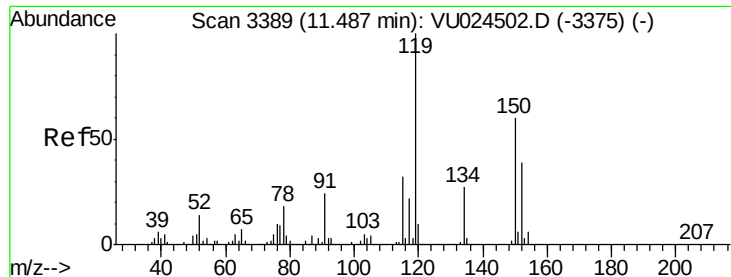


Abundance Ion 116.90 (116.60 to 117.60): VU024502.D (-2630) (-)

Ion 82.00 (81.70 to 82.70): VU024502.D (-2630) (-)

Ion 118.90 (118.60 to 119.60): VU024502.D (-2630) (-)



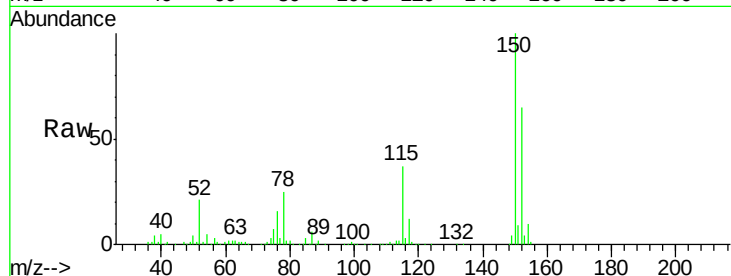


#72

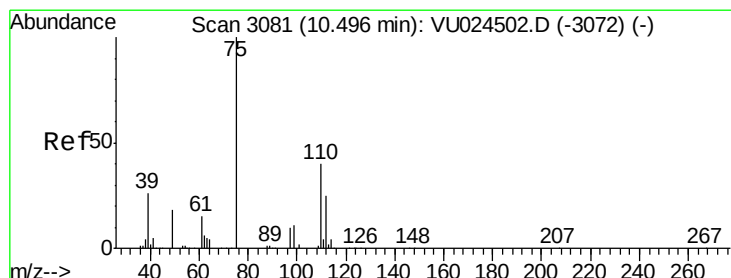
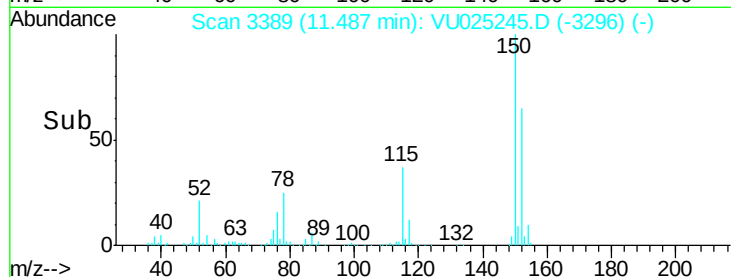
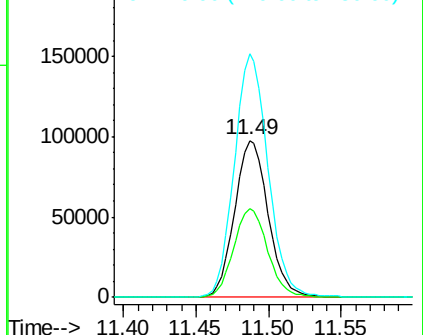
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.49 min Scan# 3389
Delta R.T. 0.00 min
Lab File: VU025245.D
Acq: 06 Jul 2018 17:16

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	57.5	43.0	129.0
150	156.1	0.0	354.0



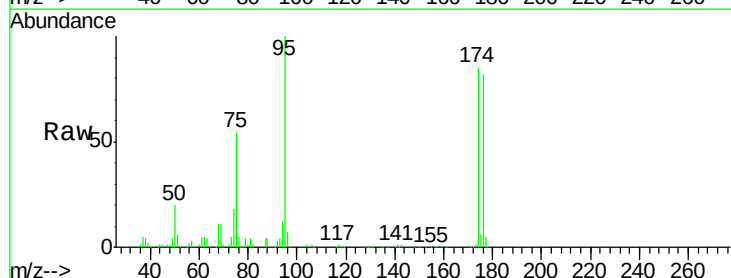
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



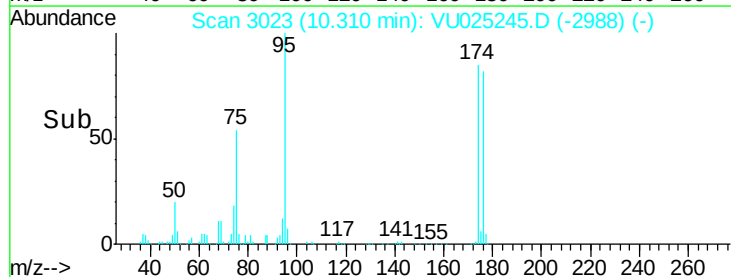
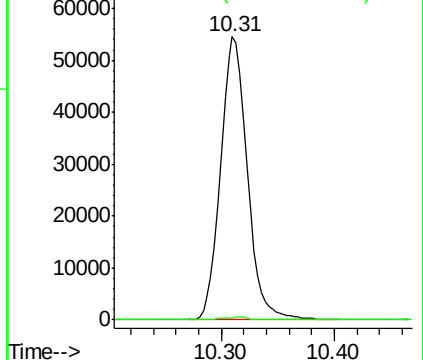
#76

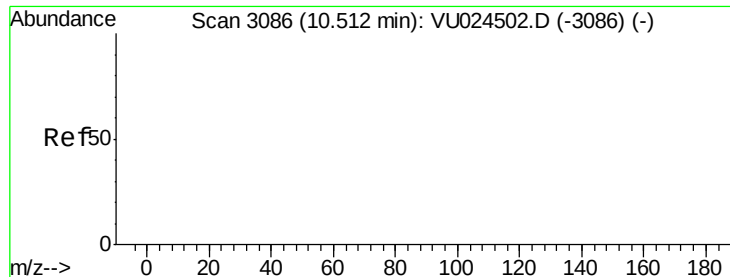
1,2,3-Trichloropropane
Concen: 25.843 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. -0.19 min
Lab File: VU025245.D
Acq: 06 Jul 2018 17:16

Tgt Ion	Ratio	Lower	Upper
75	100		
77	0.9	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: 59.811 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU025245.D

Acq: 06 Jul 2018 17:16

Instrument :

MSVOA_U

ClientSampleId :

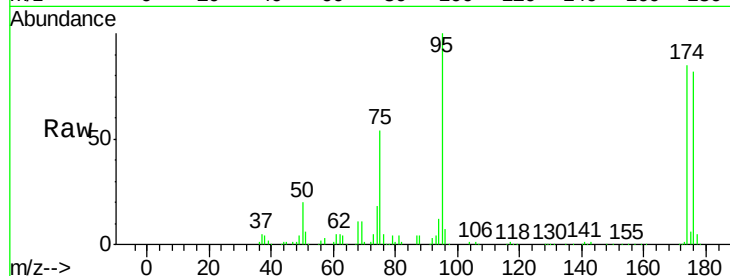
Tot Ion: 75 Resp: 89529

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

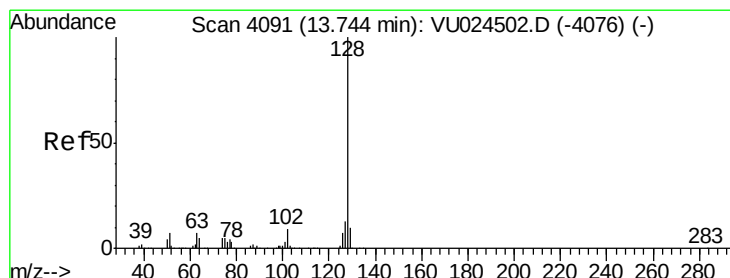
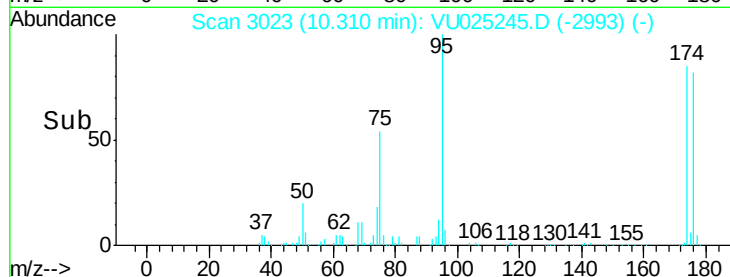
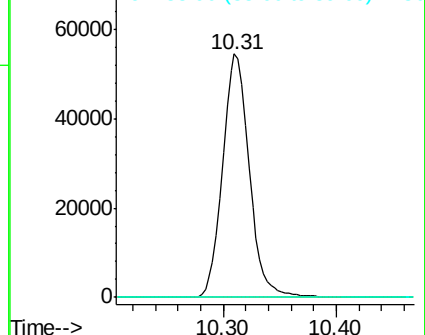
89 0.0 0.0 0.0



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) (-)



#95

Naphthalene

Concen: 0.697 ug/l

RT: 13.76 min Scan# 4097

Delta R.T. 0.02 min

Lab File: VU025245.D

Acq: 06 Jul 2018 17:16

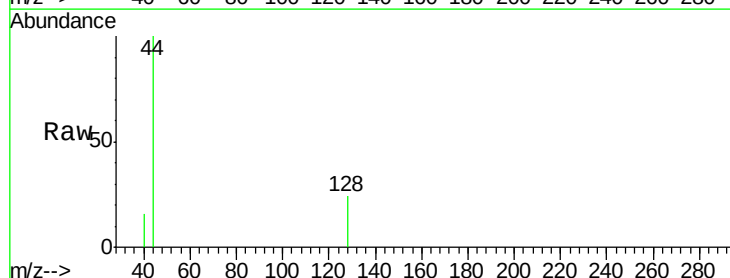
Tgt Ion:128 Resp: 210

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): VU024502.D (-4076) (-)

Ion 127.00 (126.70 to 127.70): VU024502.D (-4076) (-)

Ion 129.00 (128.70 to 129.70): VU024502.D (-4076) (-)

