

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061418\
 Data File : VU024527.D
 Acq On : 14 Jun 2018 10:20
 Operator : MD/SY
 Sample : VU0614WBL01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

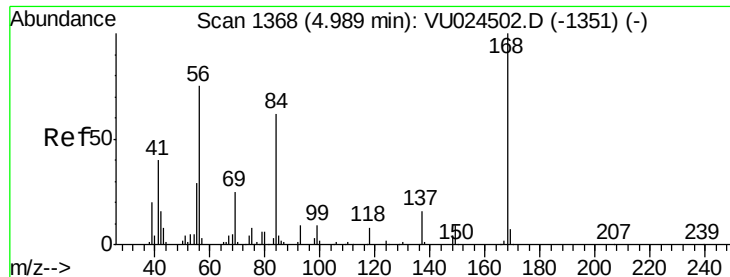
Quant Time: Jun 15 01:31:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 13 13:55:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	175648	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	294118	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	279379	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	160699	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	132667	46.27	ug/l	0.00
Spiked Amount			Recovery	=	92.54%	
35) Dibromofluoromethane	4.89	113	119261	48.86	ug/l	0.00
Spiked Amount			Recovery	=	97.72%	
50) Toluene-d8	7.57	98	429797	48.27	ug/l	0.00
Spiked Amount			Recovery	=	96.54%	
62) 4-Bromofluorobenzene	10.31	95	166188	47.01	ug/l	0.00
Spiked Amount			Recovery	=	94.02%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.71	64	201	Below Cal	#	1
8) Diethyl Ether	2.04	74	108	Below Cal		98
10) Methyl Iodide	2.42	142	20	5.298	ug/l #	1
11) Tert butyl alcohol	2.84	59	1274	1.827	ug/l #	82
13) Acrolein	2.20	56	149	0.407	ug/l #	13
16) Acetone	2.32	43	641	0.416	ug/l #	44
17) Carbon Disulfide	2.48	76	1786	0.279	ug/l #	94
20) Methylene Chloride	2.71	84	835	0.345	ug/l #	78
25) 2-Butanone	4.29	43	603	0.291	ug/l #	51
29) Tetrahydrofuran	4.66	42	619	0.483	ug/l #	72
31) Cyclohexane	4.98	56	3840	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	12788	3.700	ug/l #	52
38) Carbon Tetrachloride	4.99	117	16412	4.318	ug/l #	15
76) 1,2,3-Trichloropropane	10.31	75	82891	23.429	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	82891	54.224	ug/l #	100
88) 1,4-Dichlorobenzene	11.51	146	1370	0.236	ug/l #	25
89) n-Butylbenzene	11.90	91	2601	0.254	ug/l	91
93) 1,2,4-Trichlorobenzene	13.52	180	1508	0.422	ug/l	89
94) Hexachlorobutadiene	13.70	225	580	0.289	ug/l	86
95) Naphthalene	13.76	128	8117	1.357	ug/l	96
96) 1,2,3-Trichlorobenzene	14.00	180	2056	0.578	ug/l	87

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.00 min

Lab File: VU024527.D

Acq: 14 Jun 2018 10:20

Instrument :

MSVOA_U

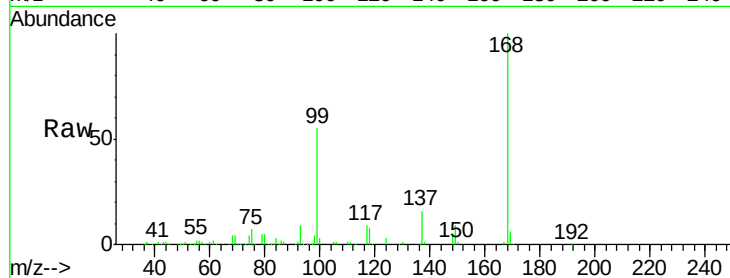
ClientSampleId :

Tot Ion:168 Resp: 175648

Ion Ratio Lower Upper

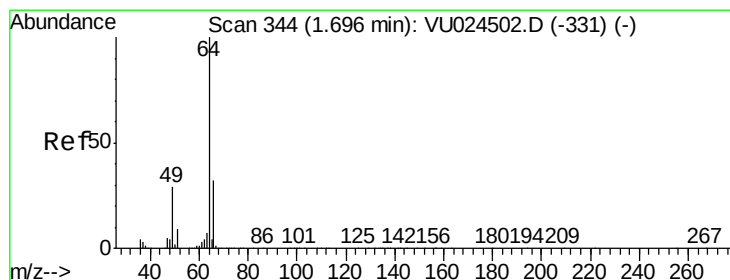
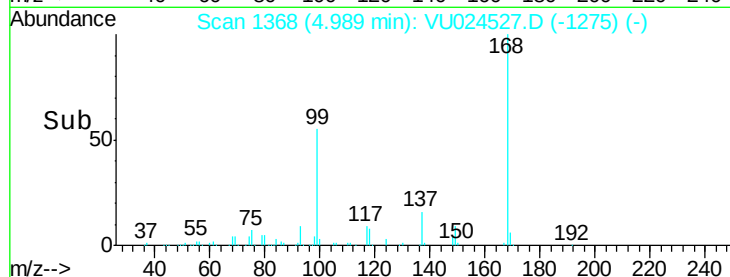
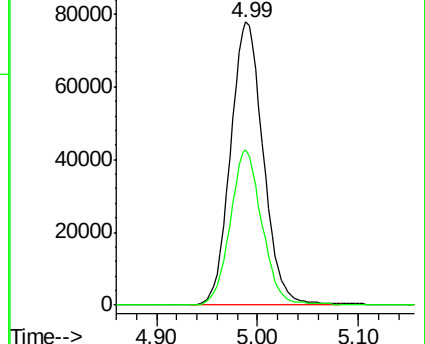
168 100

99 54.8 43.2 64.8



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

Ion 98.90 (98.60 to 99.60): VU024502.D



#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 348

Delta R.T. 0.01 min

Lab File: VU024527.D

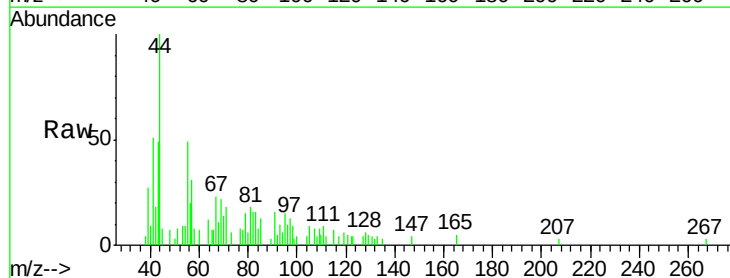
Acq: 14 Jun 2018 10:20

Tgt Ion: 64 Resp: 201

Ion Ratio Lower Upper

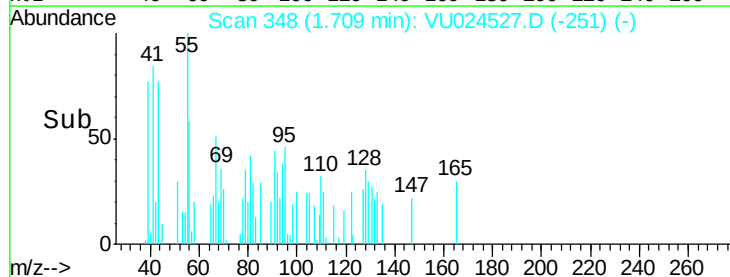
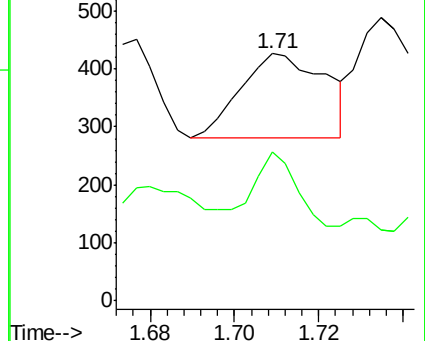
64 100

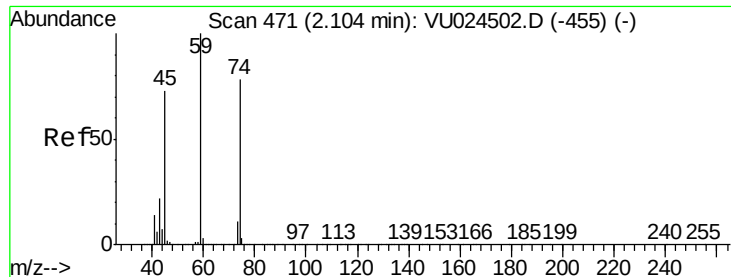
66 88.9 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VU024502.D

Ion 65.90 (65.60 to 66.60): VU024502.D





#8

Diethyl Ether

Concen: Below Cal

RT: 2.04 min Scan# 450

Delta R.T. -0.07 min

Lab File: VU024527.D

Acq: 14 Jun 2018 10:20

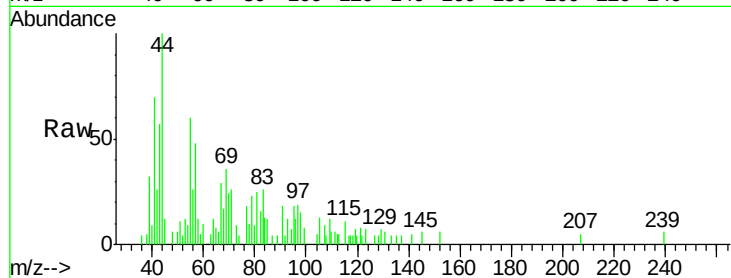
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 74 Resp: 108

Ion Ratio Lower Upper

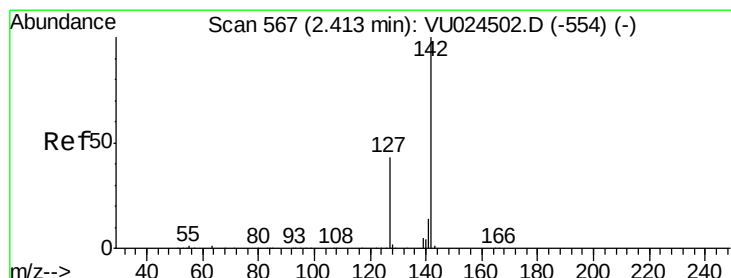
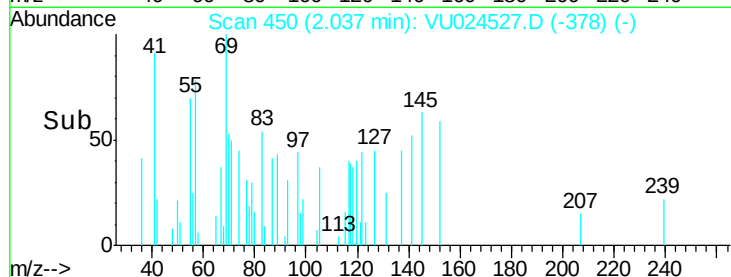
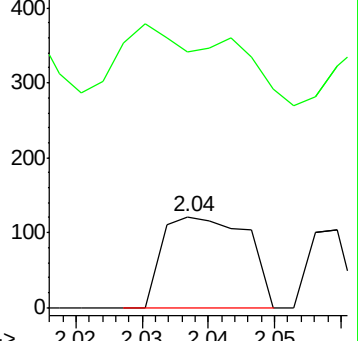
74 100

45 108.3 55.0 165.0



Abundance Ion 74.00 (73.70 to 74.70): VU0

Ion 45.00 (44.70 to 45.70): VU0



#10

Methyl Iodide

Concen: 5.298 ug/l

RT: 2.42 min Scan# 568

Delta R.T. 0.00 min

Lab File: VU024527.D

Acq: 14 Jun 2018 10:20

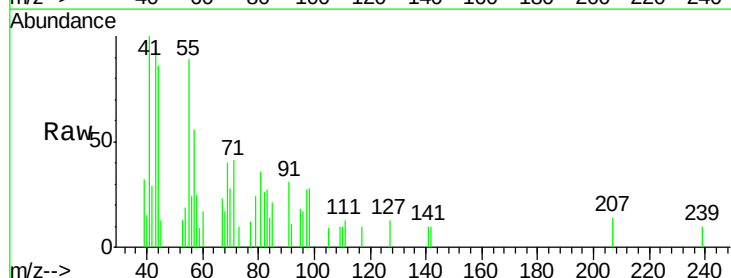
Tgt Ion: 142 Resp: 20

Ion Ratio Lower Upper

142 100

127 485.0 35.6 53.4#

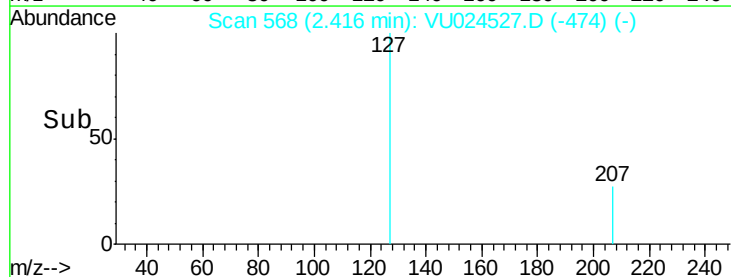
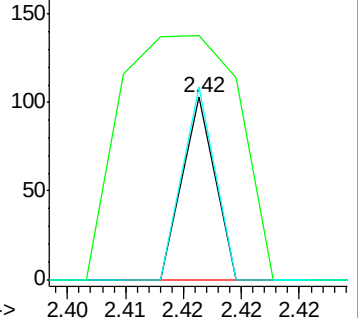
141 105.0 11.7 17.5#

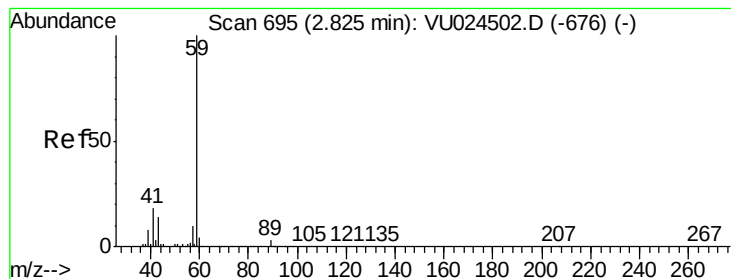


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



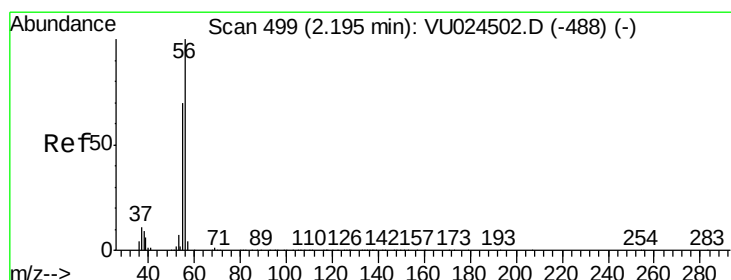
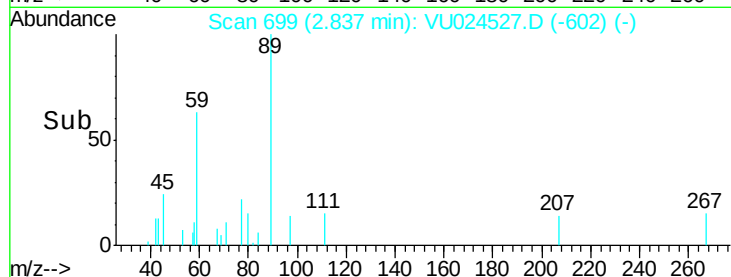
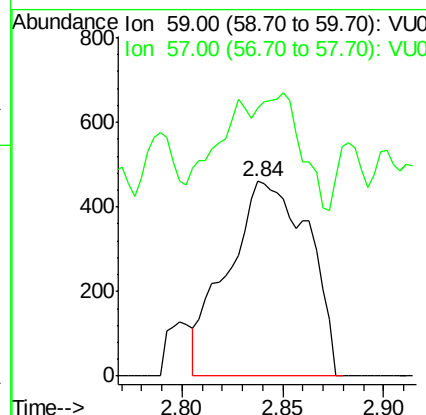
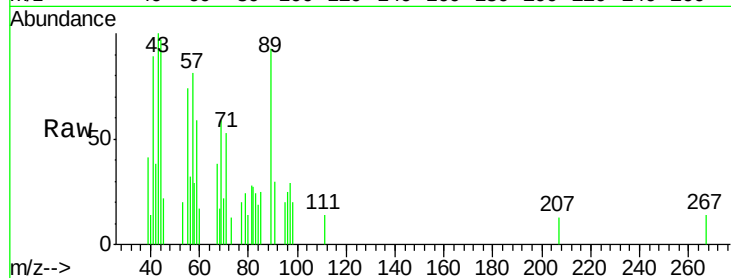


#11

Tert butyl alcohol
 Concen: 1.827 ug/l
 RT: 2.84 min Scan# 699
 Delta R.T. 0.01 min
 Lab File: VU024527.D
 Acq: 14 Jun 2018 10:20

Instrument :
 MSVOA_U
 ClientSampleId :

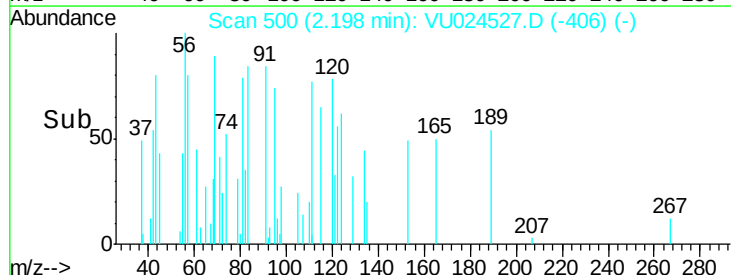
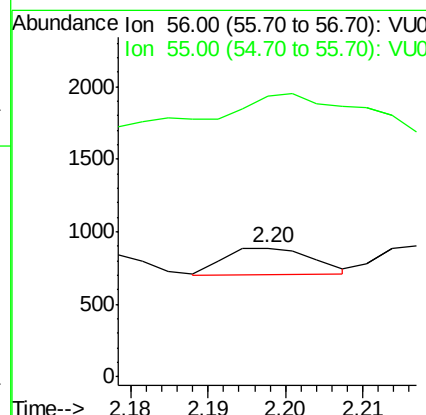
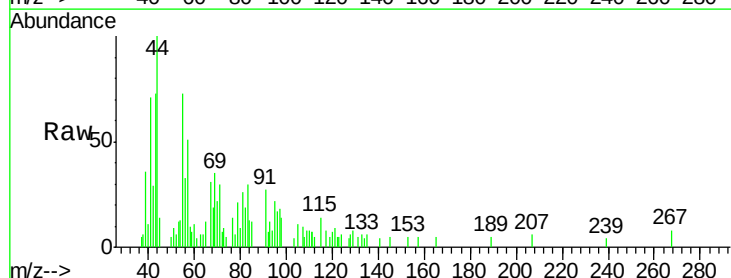
Tot Ion: 59 Resp: 1274
 Ion Ratio Lower Upper
 59 100
 57 17.2 8.5 12.7#

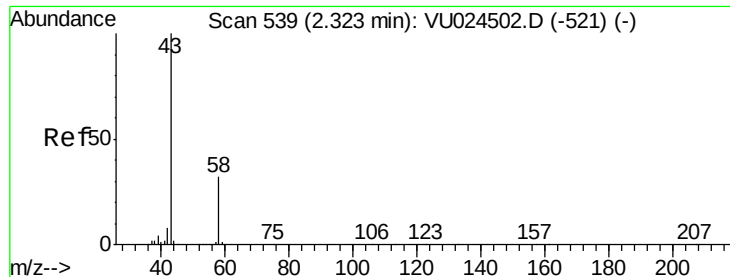


#13

Acrolein
 Concen: 0.407 ug/l
 RT: 2.20 min Scan# 500
 Delta R.T. 0.00 min
 Lab File: VU024527.D
 Acq: 14 Jun 2018 10:20

Tgt Ion: 56 Resp: 149
 Ion Ratio Lower Upper
 56 100
 55 0.0 58.4 87.6#





#16

Acetone

Concen: 0.416 ug/l

RT: 2.32 min Scan# 539

Delta R.T. -0.00 min

Lab File: VU024527.D

Acq: 14 Jun 2018 10:20

Instrument :

MSVOA_U

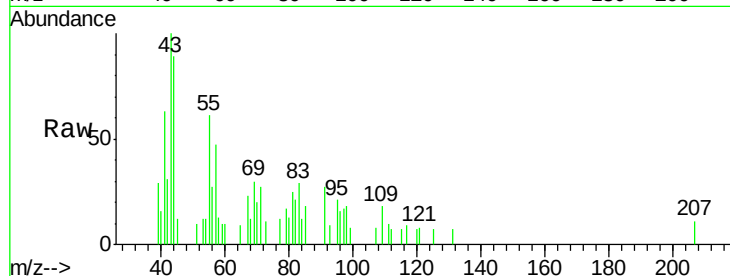
ClientSampleId :

Tot Ion: 43 Resp: 641

Ion Ratio Lower Upper

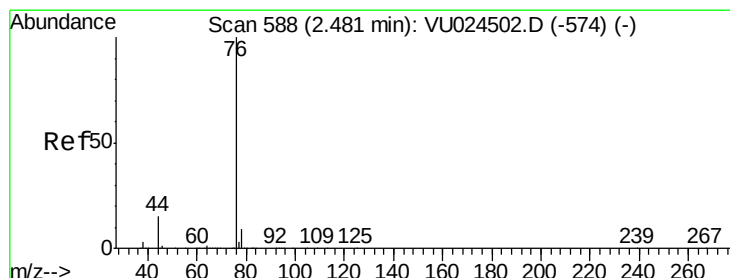
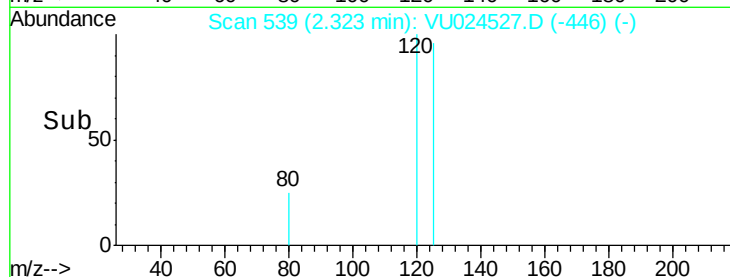
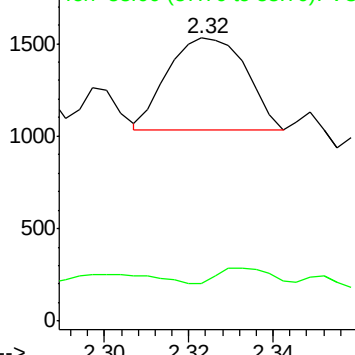
43 100

58 0.0 24.4 36.6#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#17

Carbon Disulfide

Concen: 0.279 ug/l

RT: 2.48 min Scan# 588

Delta R.T. -0.00 min

Lab File: VU024527.D

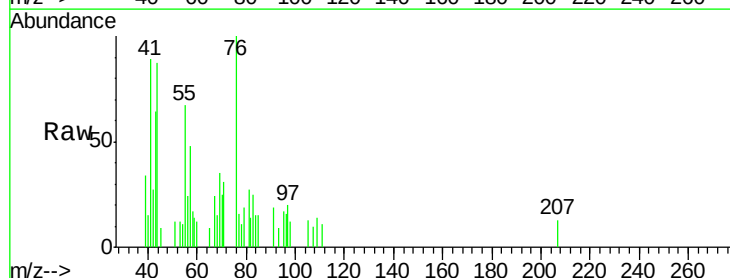
Acq: 14 Jun 2018 10:20

Tgt Ion: 76 Resp: 1786

Ion Ratio Lower Upper

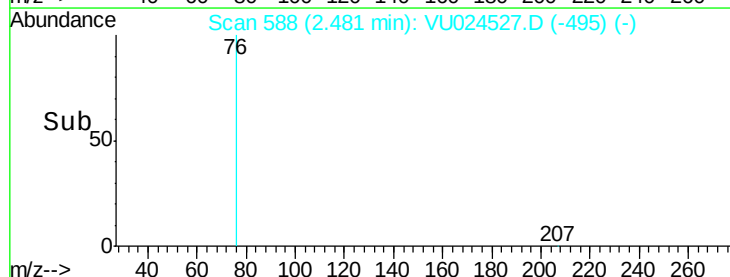
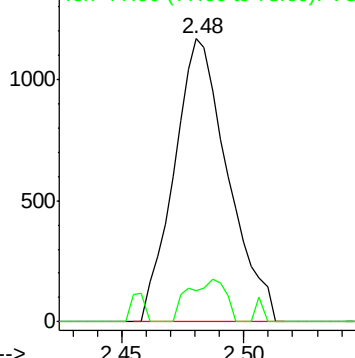
76 100

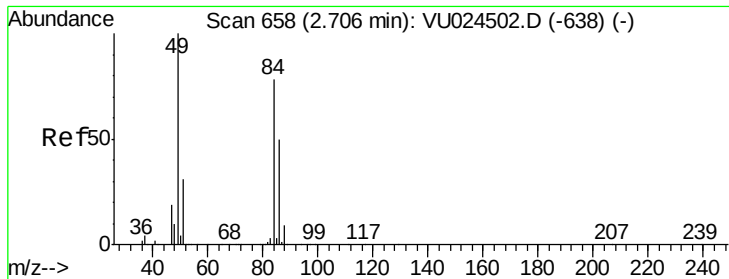
78 11.1 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0





#20

Methylene Chloride

Concen: 0.345 ug/l

RT: 2.71 min Scan# 659

Delta R.T. 0.00 min

Lab File: VU024527.D

Acq: 14 Jun 2018 10:20

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 84 Resp: 835

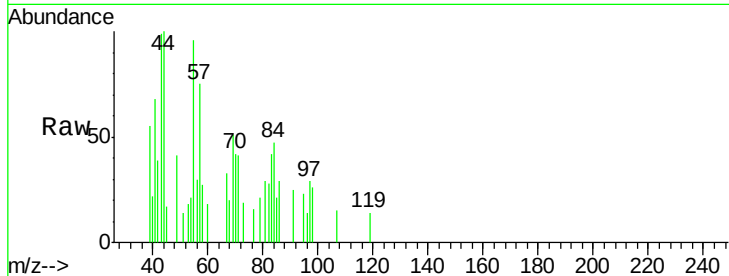
Ion Ratio Lower Upper

84 100

49 88.9 103.8 155.8#

51 31.0 32.0 48.0#

86 63.2 51.6 77.4

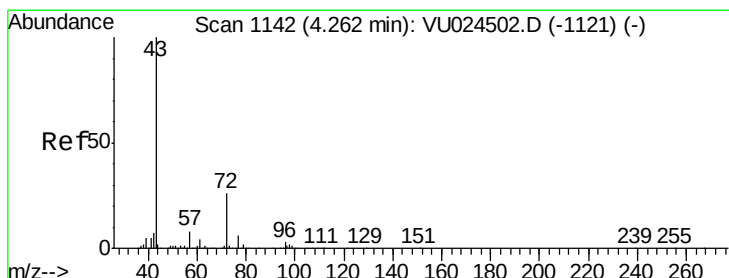
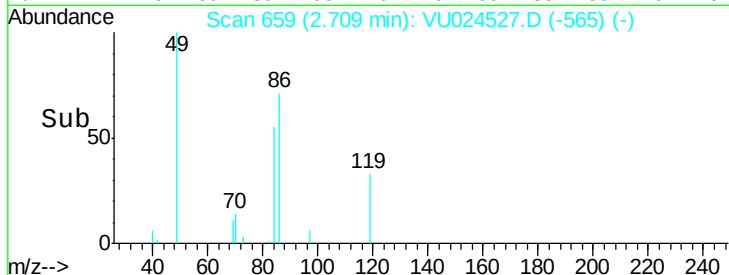
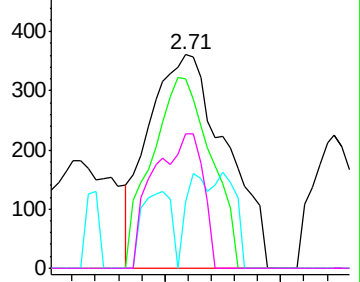


Abundance Ion 83.90 (83.60 to 84.60): VU0

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



#25

2-Butanone

Concen: 0.291 ug/l

RT: 4.29 min Scan# 1152

Delta R.T. 0.03 min

Lab File: VU024527.D

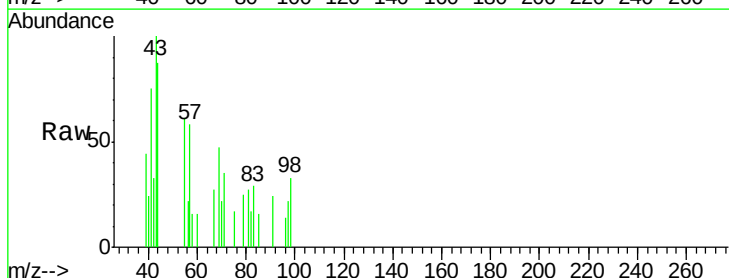
Acq: 14 Jun 2018 10:20

Tgt Ion: 43 Resp: 603

Ion Ratio Lower Upper

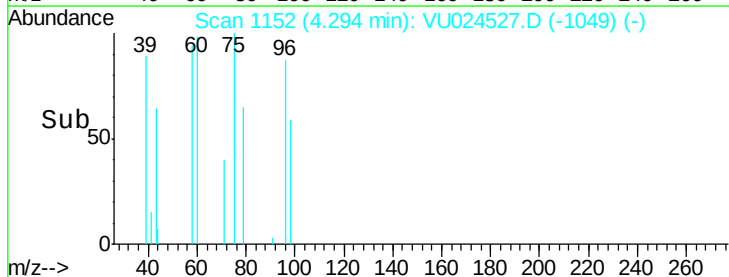
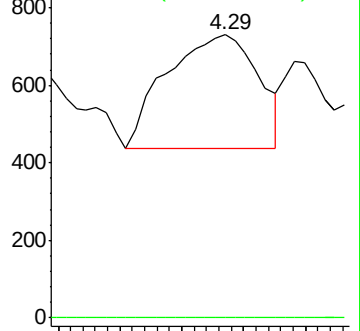
43 100

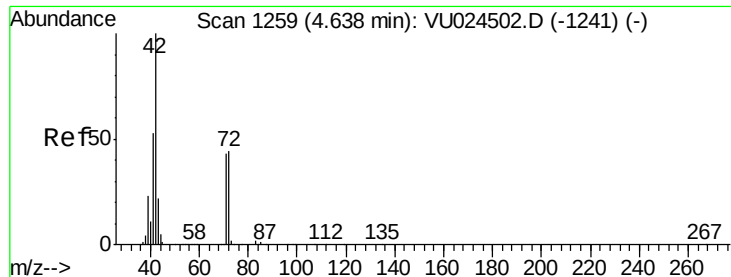
72 0.0 19.6 29.4#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0





#29

Tetrahydrofuran

Concen: 0.483 ug/l

RT: 4.66 min Scan# 1267

Delta R.T. 0.03 min

Lab File: VU024527.D

Acq: 14 Jun 2018 10:20

Instrument :

MSVOA_U

ClientSampleId :

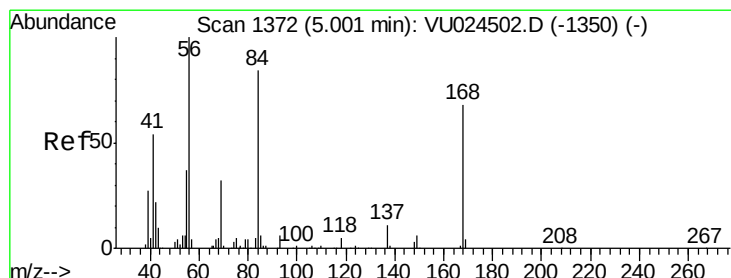
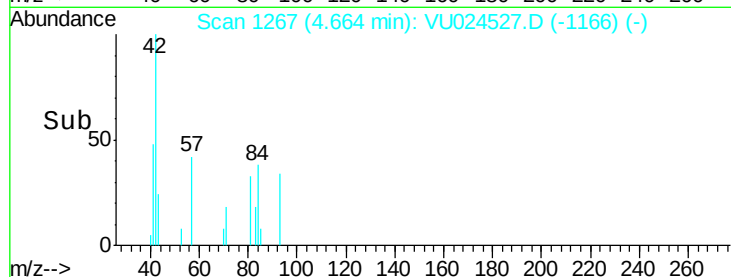
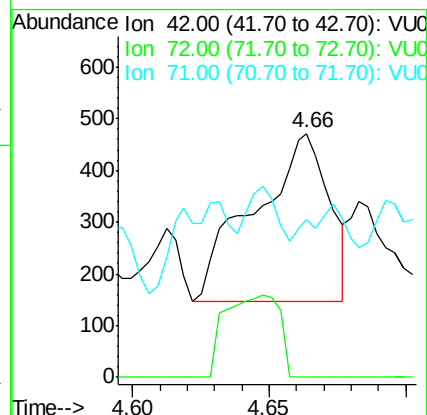
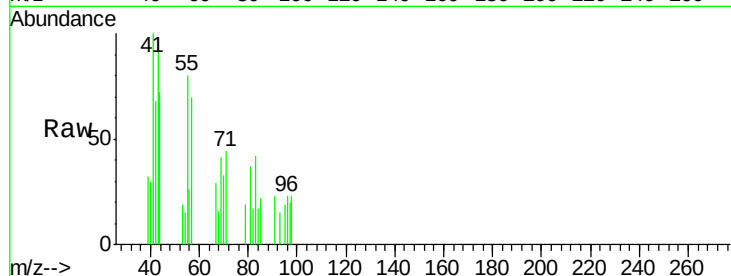
Tot Ion: 42 Resp: 619

Ion Ratio Lower Upper

42 100

72 35.5 34.5 51.7

71 11.8 32.2 48.4#



#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1366

Delta R.T. -0.02 min

Lab File: VU024527.D

Acq: 14 Jun 2018 10:20

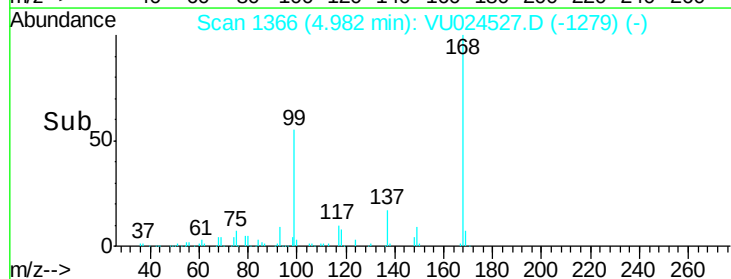
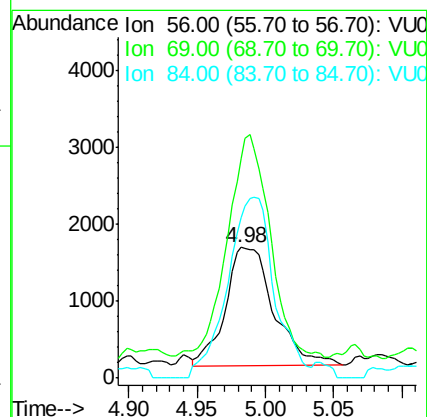
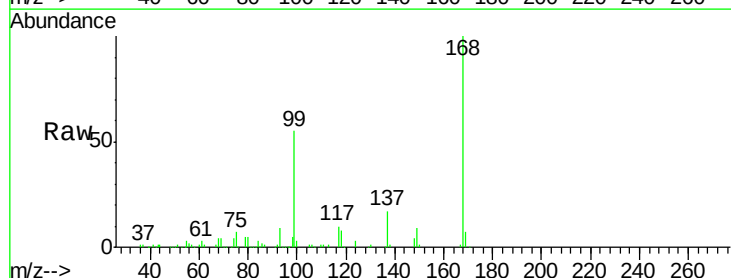
Tgt Ion: 56 Resp: 3840

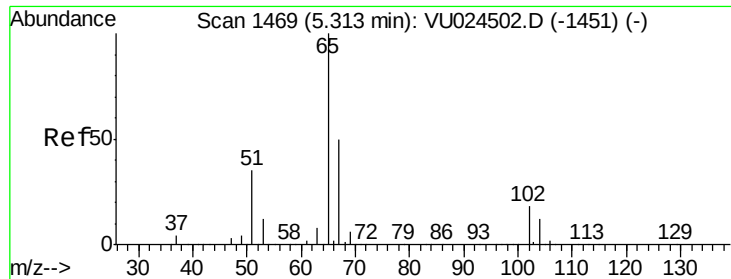
Ion Ratio Lower Upper

56 100

69 165.5 24.8 37.2#

84 136.0 65.2 97.8#

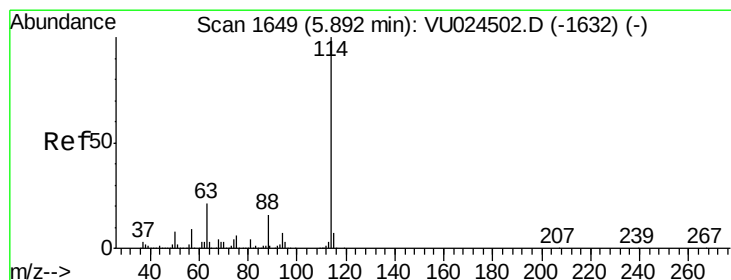
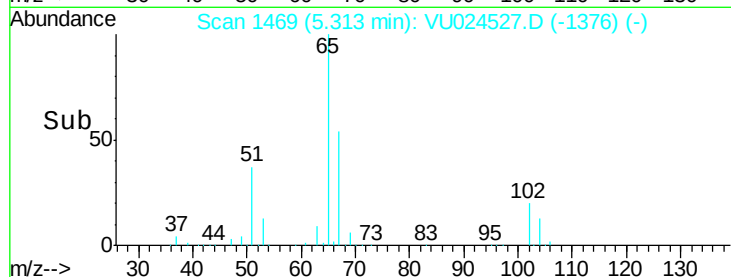
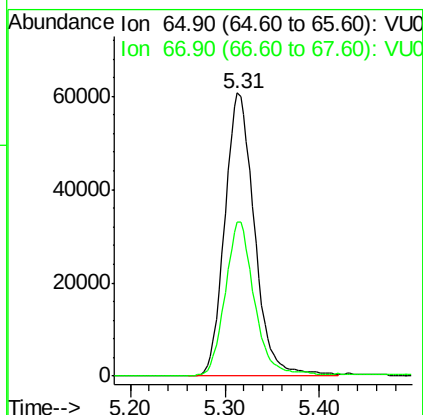
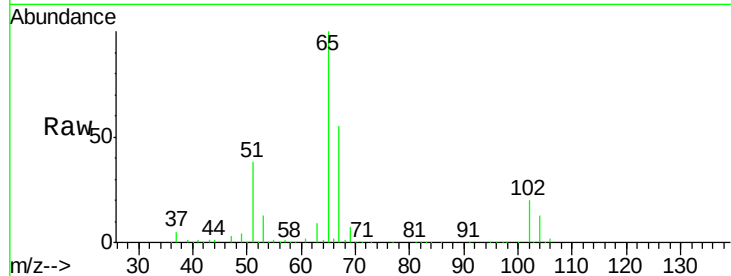




#33
 1,2-Dichloroethane-d4
 Concen: 46.266 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. -0.00 min
 Lab File: VU024527.D
 Acq: 14 Jun 2018 10:20

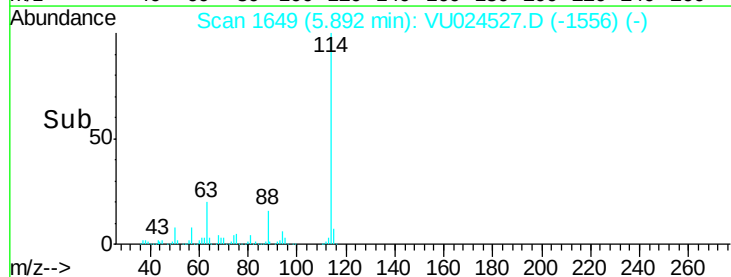
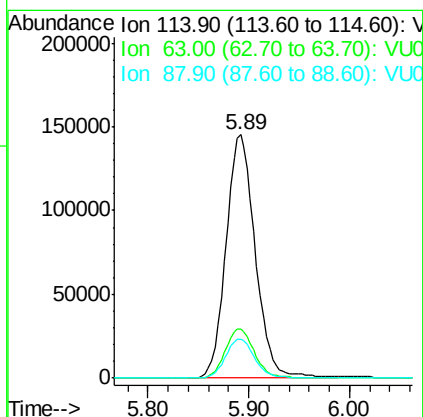
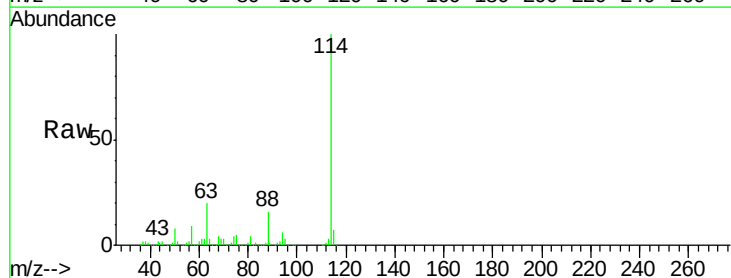
Instrument :
 MSVOA_U
 ClientSampleId :

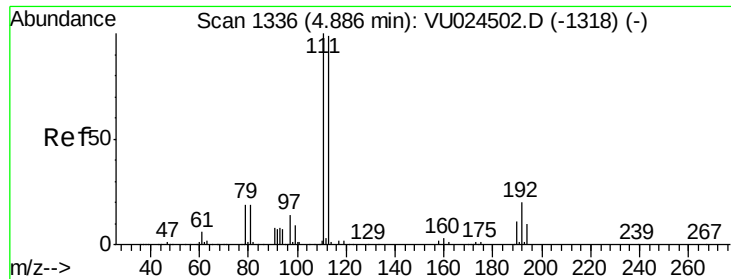
Tot Ion: 65 Resp: 132667
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1649
 Delta R.T. -0.00 min
 Lab File: VU024527.D
 Acq: 14 Jun 2018 10:20

Tgt Ion: 114 Resp: 294118
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 45.4
 88 16.1 0.0 31.0

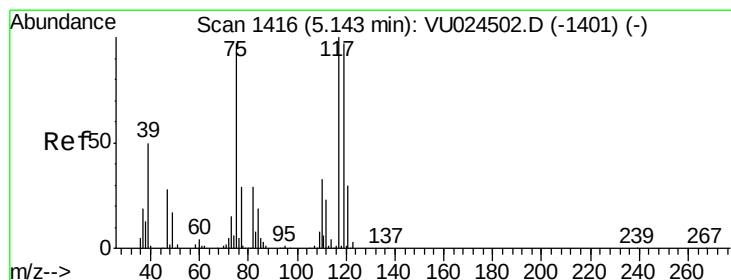
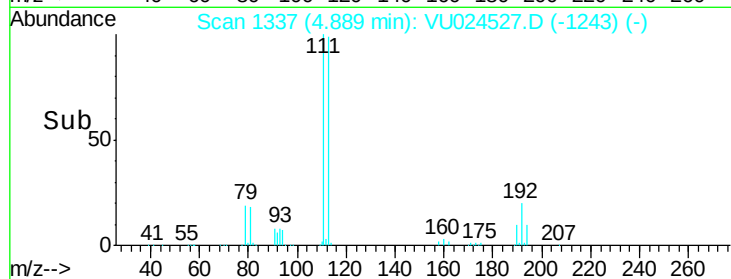
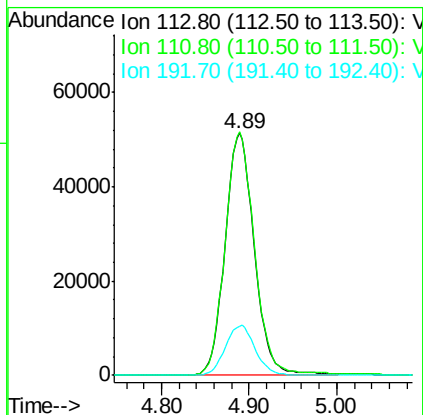
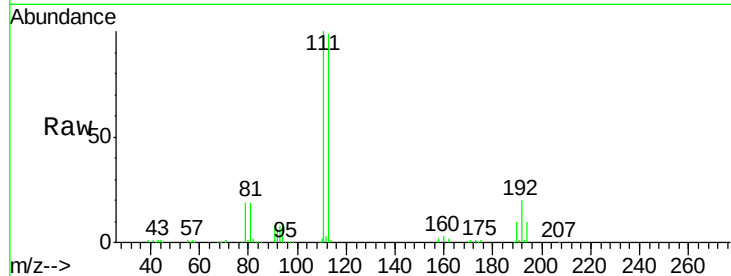




#35
 Dibromofluoromethane
 Concen: 48.858 ug/l
 RT: 4.89 min Scan# 1337
 Delta R.T. 0.00 min
 Lab File: VU024527.D
 Acq: 14 Jun 2018 10:20

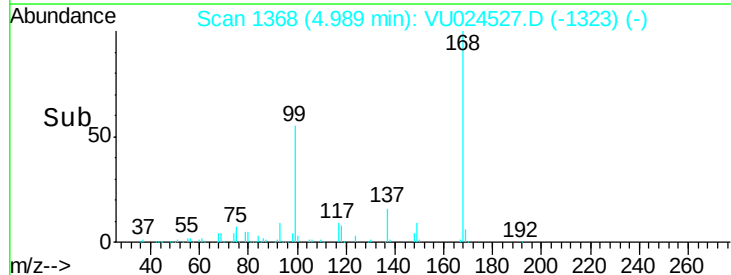
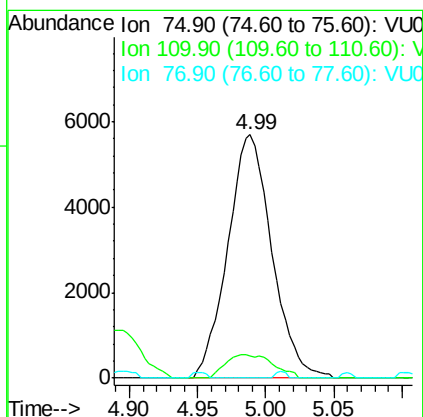
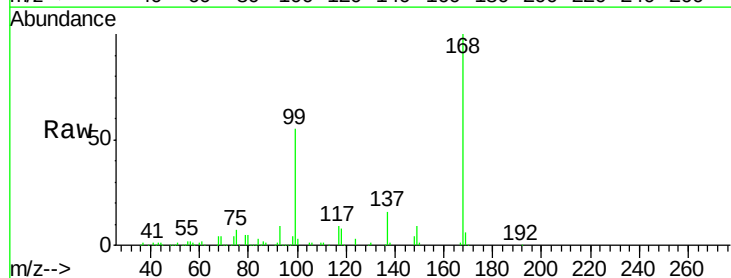
Instrument :
 MSVOA_U
 ClientSampleId :

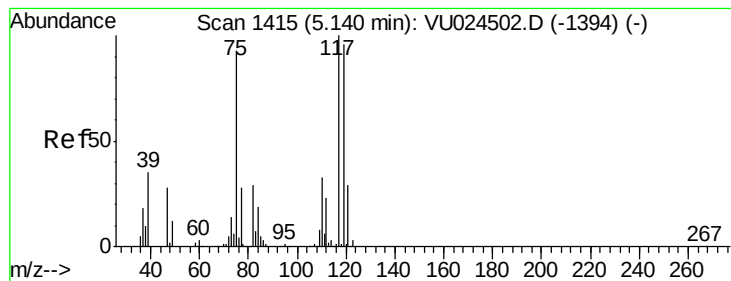
Tot Ion:113 Resp: 119261
 Ion Ratio Lower Upper
 113 100
 111 100.0 82.2 123.4
 192 20.9 16.2 24.4



#36
 1,1-Dichloropropene
 Concen: 3.700 ug/l
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.15 min
 Lab File: VU024527.D
 Acq: 14 Jun 2018 10:20

Tgt Ion: 75 Resp: 12788
 Ion Ratio Lower Upper
 75 100
 110 10.3 17.0 50.9#
 77 0.0 24.2 36.4#





#38

Carbon Tetrachloride

Concen: 4.318 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU024527.D

Acq: 14 Jun 2018 10:20

Instrument :

MSVOA_U

ClientSampleId :

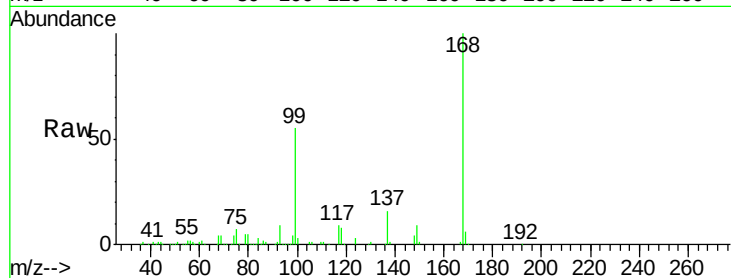
Tot Ion:117 Resp: 16412

Ion Ratio Lower Upper

117 100

119 3.6 76.1 114.1#

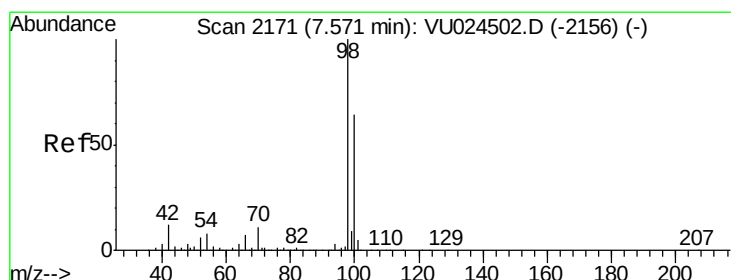
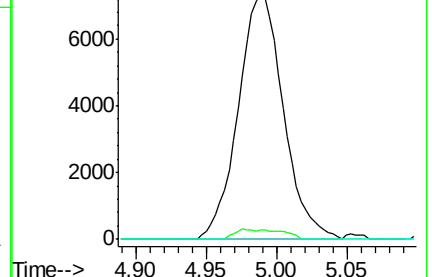
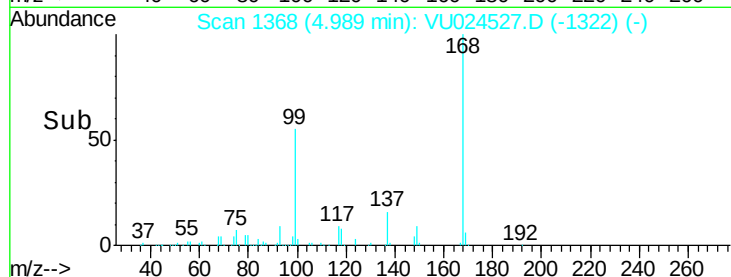
121 0.0 23.7 35.5#



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



#50

Toluene-d8

Concen: 48.272 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. -0.00 min

Lab File: VU024527.D

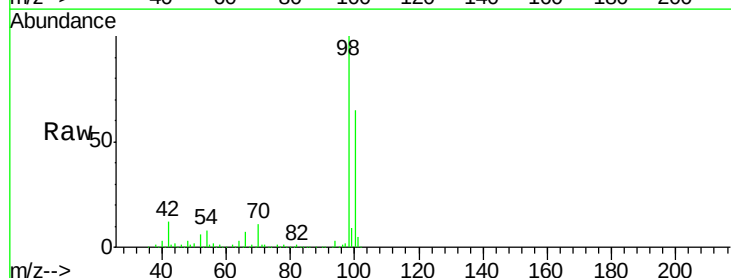
Acq: 14 Jun 2018 10:20

Tgt Ion: 98 Resp: 429797

Ion Ratio Lower Upper

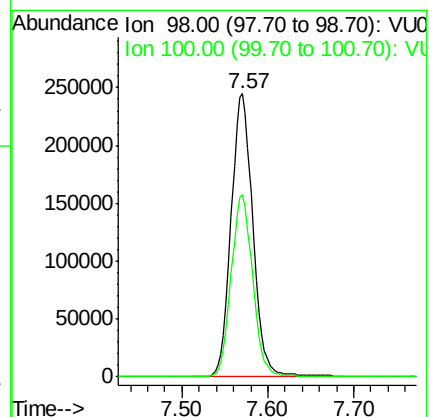
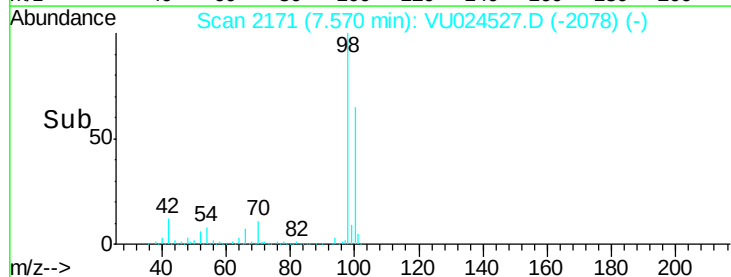
98 100

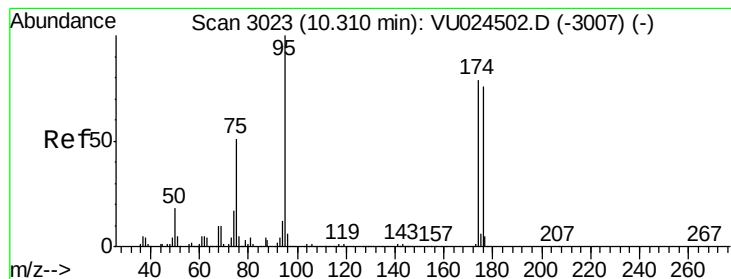
100 63.8 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU0





#62

4-Bromofluorobenzene

Concen: 47.011 ug/l

RT: 10.31 min Scan# 3024

Delta R.T. 0.00 min

Lab File: VU024527.D

Acq: 14 Jun 2018 10:20

Instrument :

MSVOA_U

ClientSampleId :

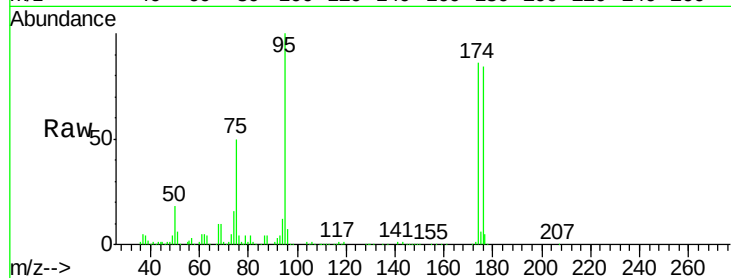
Tot Ion: 95 Resp: 166188

Ion Ratio Lower Upper

95 100

174 84.3 0.0 165.8

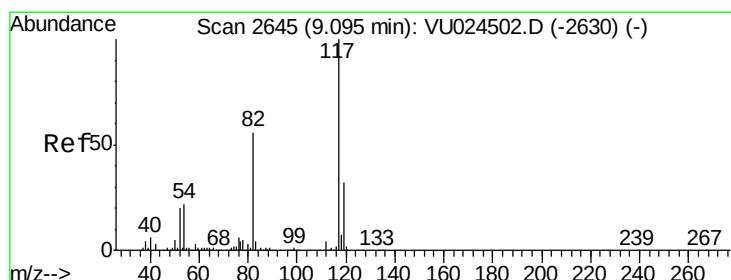
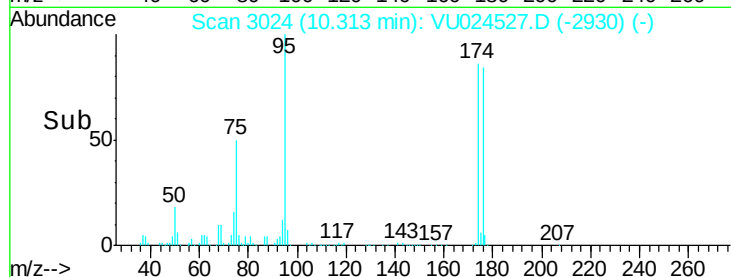
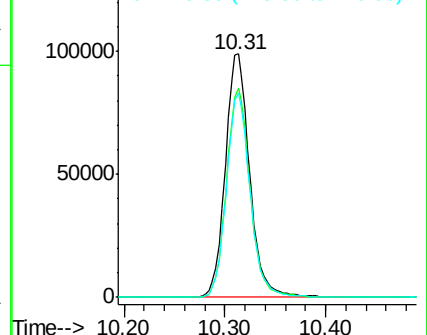
176 82.1 0.0 159.4



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: VU024527.D

Acq: 14 Jun 2018 10:20

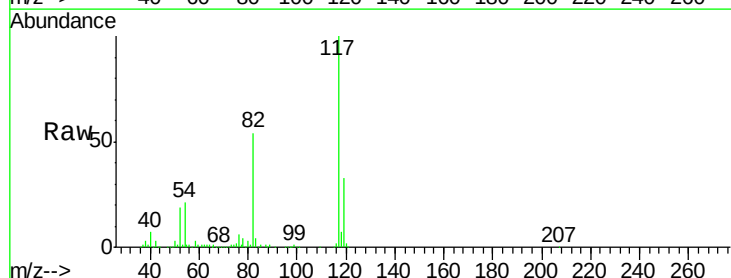
Tgt Ion: 117 Resp: 279379

Ion Ratio Lower Upper

117 100

82 53.6 44.3 66.5

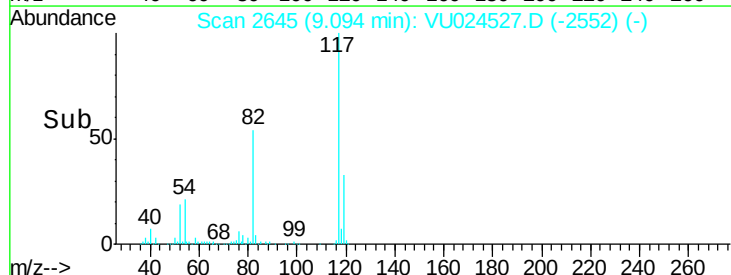
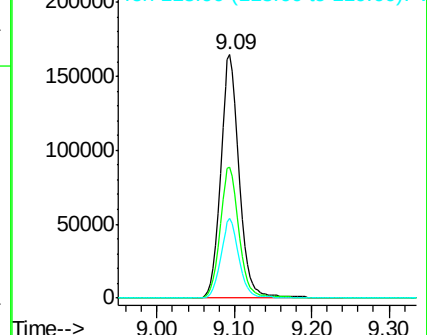
119 32.6 25.4 38.2

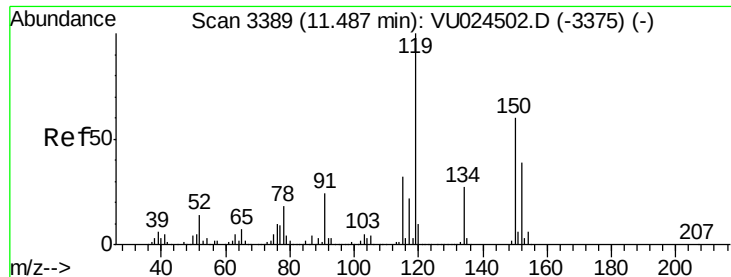


Abundance Ion 116.90 (116.60 to 117.60): VU024502.D (-2630) (-)

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# 3390

Delta R.T. 0.00 min

Lab File: VU024527.D

Acq: 14 Jun 2018 10:20

Instrument :

MSVOA_U

ClientSampleId :

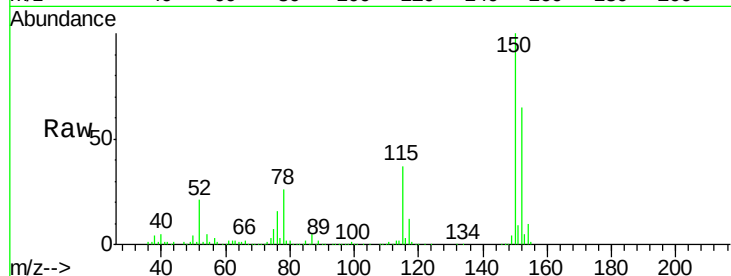
Tot Ion:152 Resp: 160699

Ion Ratio Lower Upper

152 100

115 57.1 43.0 129.0

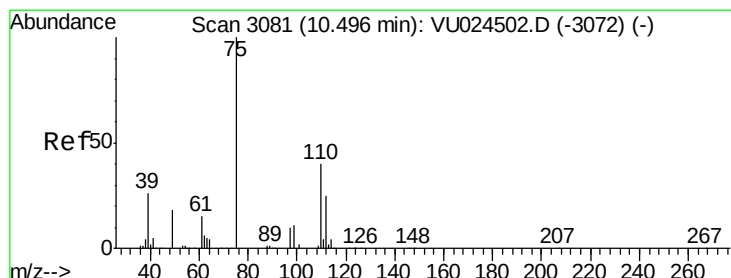
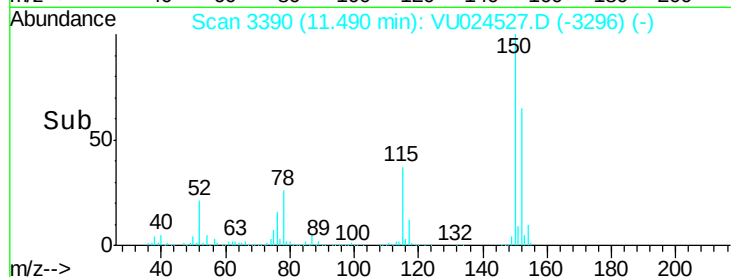
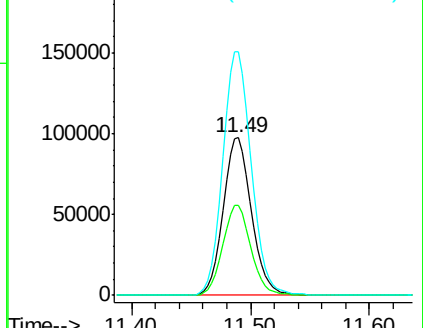
150 155.5 0.0 354.0



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: 23.429 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024527.D

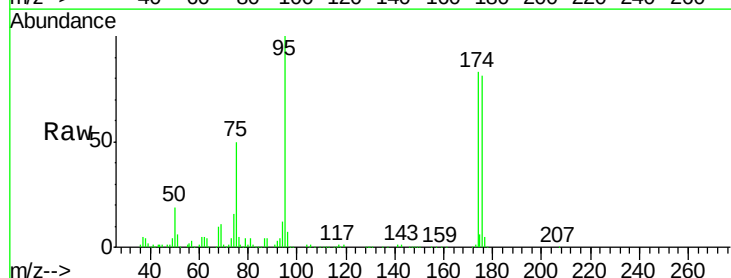
Acq: 14 Jun 2018 10:20

Tgt Ion: 75 Resp: 82891

Ion Ratio Lower Upper

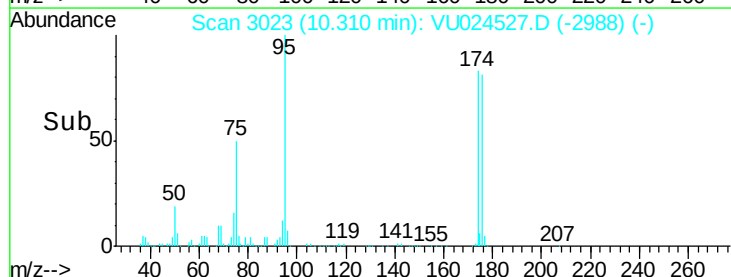
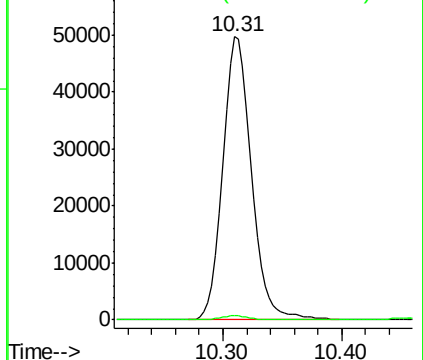
75 100

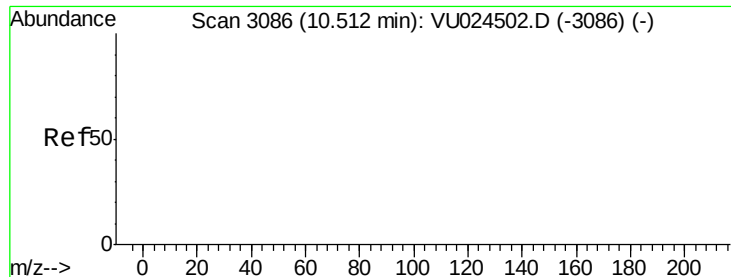
77 1.6 20.9 62.7#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

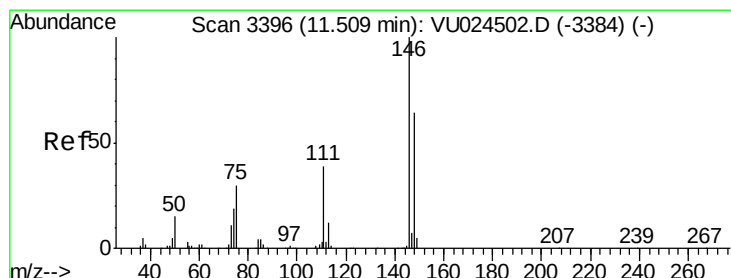
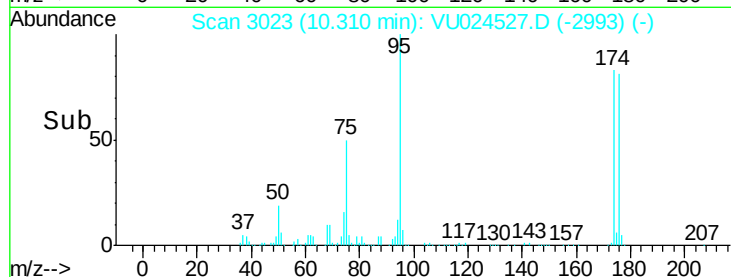
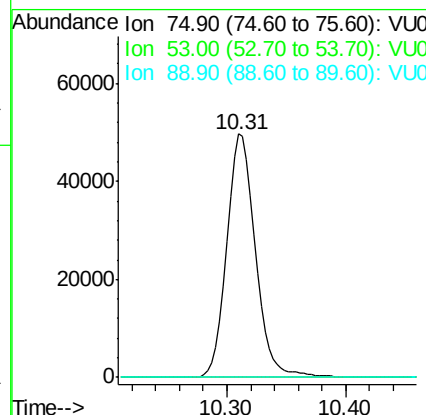
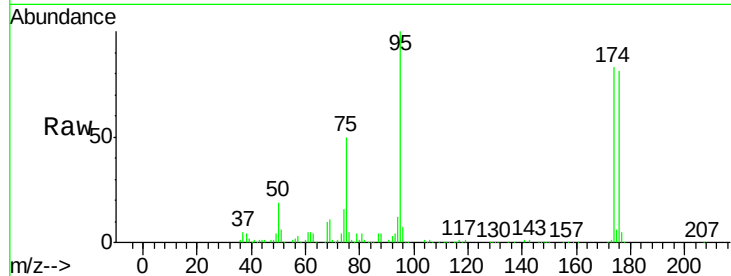




#81
trans-1,4-Dichloro-2-butene
Concen: 54.224 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. -0.20 min
Lab File: VU024527.D
Acq: 14 Jun 2018 10:20

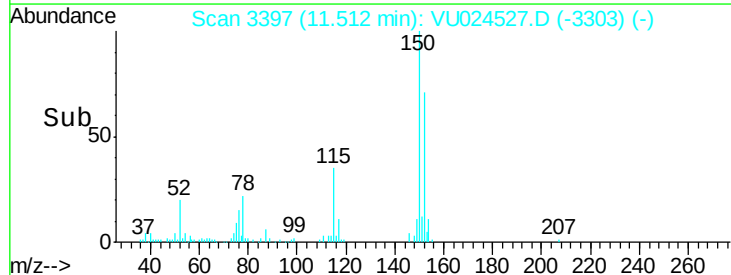
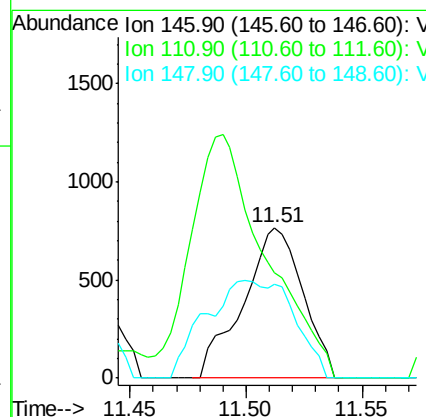
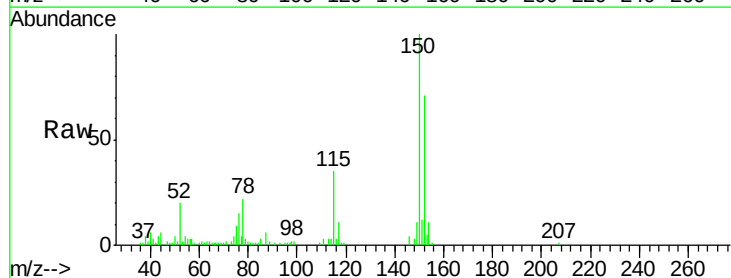
Instrument :
MSVOA_U
ClientSampleId :

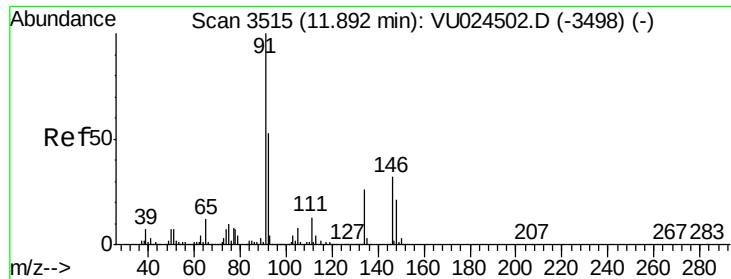
Tot Ion: 75 Resp: 82891
Ion Ratio Lower Upper
75 100
53 0.1 0.0 0.0#
89 0.0 0.0 0.0



#88
1,4-Dichlorobenzene
Concen: 0.236 ug/l
RT: 11.51 min Scan# 3397
Delta R.T. 0.00 min
Lab File: VU024527.D
Acq: 14 Jun 2018 10:20

Tgt Ion: 146 Resp: 1370
Ion Ratio Lower Upper
146 100
111 0.0 19.5 58.5#
148 0.0 32.4 97.0#

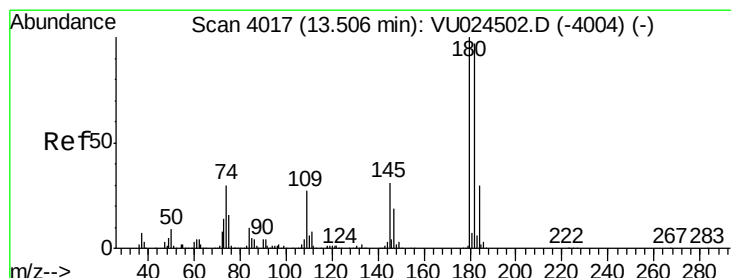
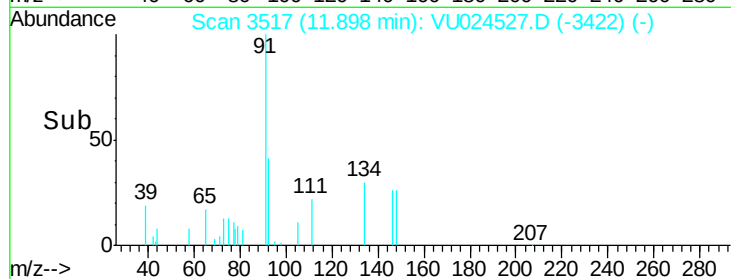
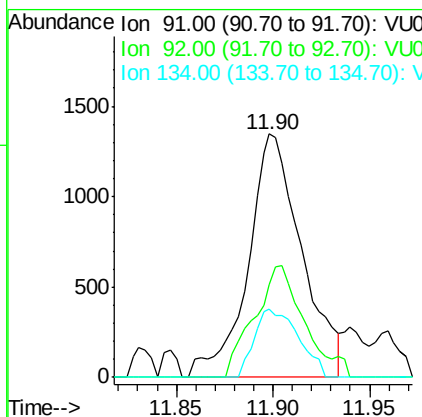
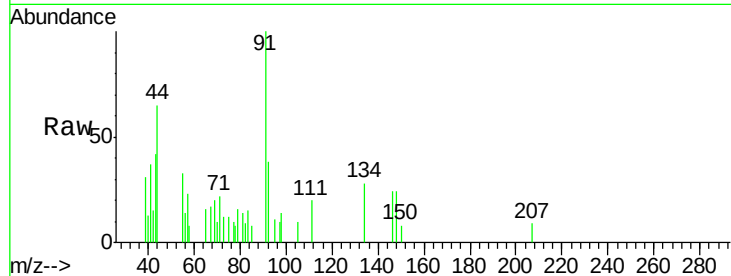




#89
n-Butylbenzene
Concen: 0.254 ug/l
RT: 11.90 min Scan# 3517
Delta R.T. 0.01 min
Lab File: VU024527.D
Acq: 14 Jun 2018 10:20

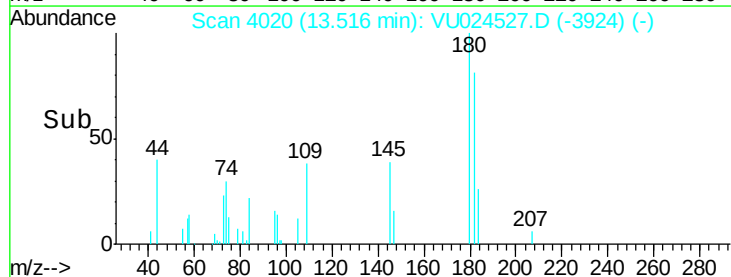
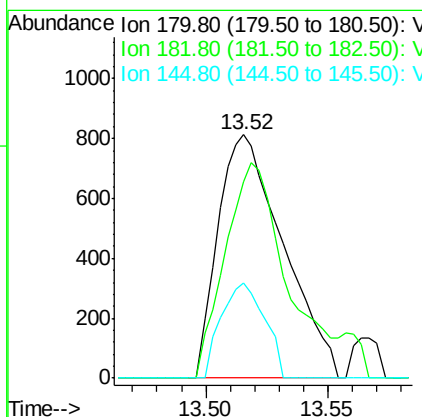
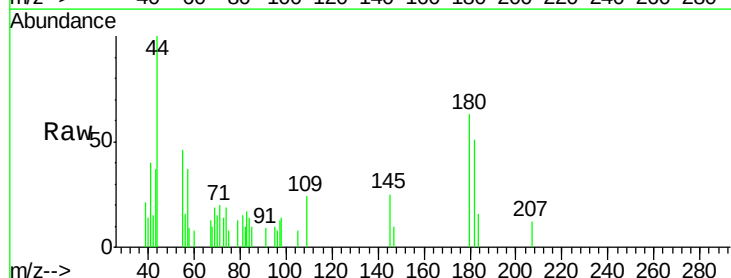
Instrument :
MSVOA_U
ClientSampleId :

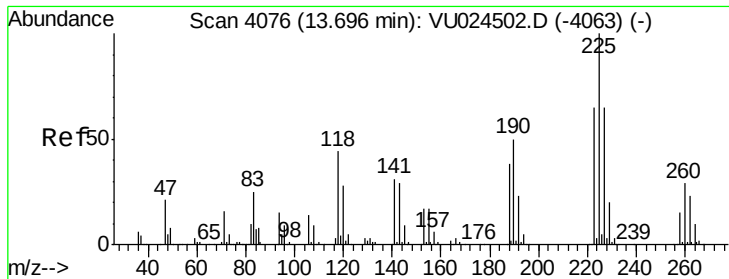
Tot Ion: 91 Resp: 2601
Ion Ratio Lower Upper
91 100
92 42.8 25.6 76.8
134 23.0 12.3 36.8



#93
1,2,4-Trichlorobenzene
Concen: 0.422 ug/l
RT: 13.52 min Scan# 4020
Delta R.T. 0.01 min
Lab File: VU024527.D
Acq: 14 Jun 2018 10:20

Tgt Ion: 180 Resp: 1508
Ion Ratio Lower Upper
180 100
182 83.8 48.0 144.2
145 26.1 14.7 44.1





#94

Hexachlorobutadiene

Concen: 0.289 ug/l

RT: 13.70 min Scan# 4077

Delta R.T. 0.00 min

Lab File: VU024527.D

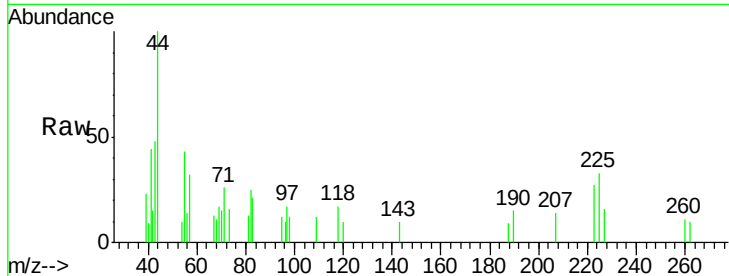
Acq: 14 Jun 2018 10:20

Instrument :

MSVOA_U

ClientSampleId :

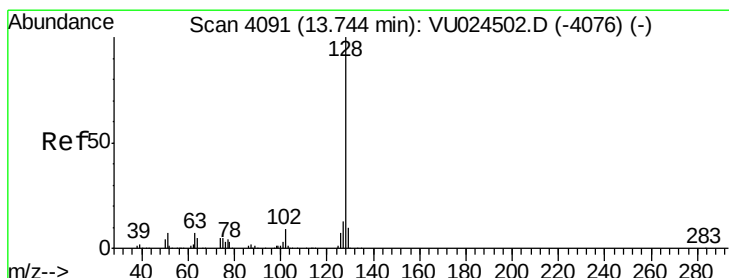
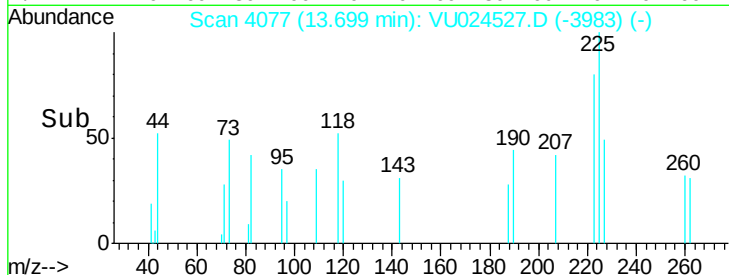
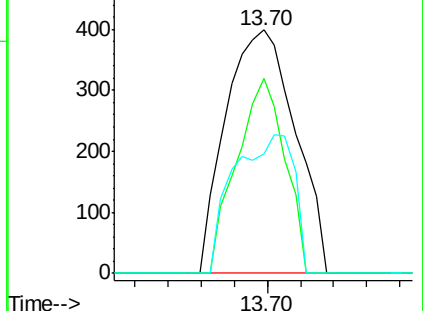
Tot Ion:	225	Resp:	580
Ion	Ratio	Lower	Upper
225	100		
223	55.3	31.3	93.8
227	49.5	31.8	95.4



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 1.357 ug/l

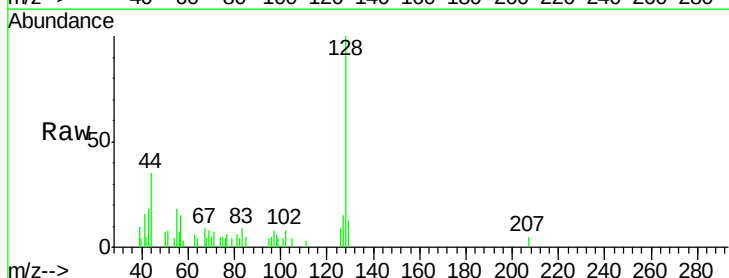
RT: 13.76 min Scan# 4096

Delta R.T. 0.02 min

Lab File: VU024527.D

Acq: 14 Jun 2018 10:20

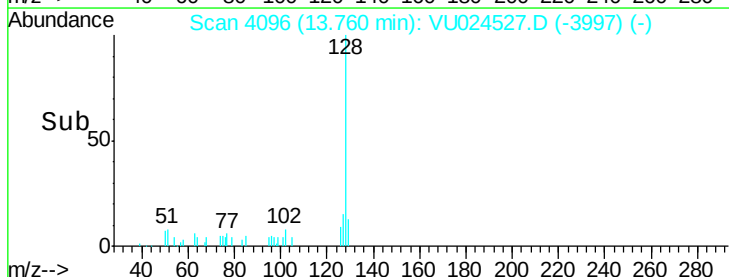
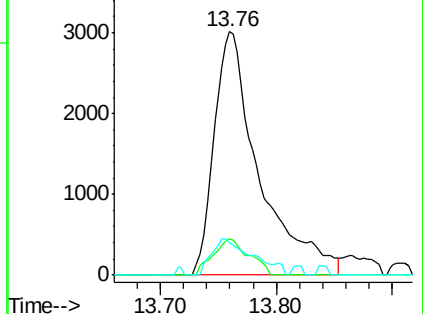
Tgt Ion:	128	Resp:	8117
Ion	Ratio	Lower	Upper
128	100		
127	11.8	10.6	16.0
129	12.6	8.6	12.8

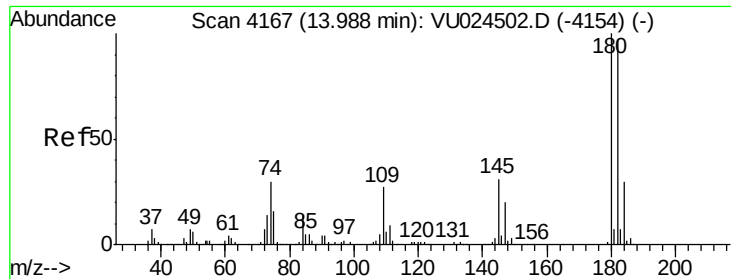


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

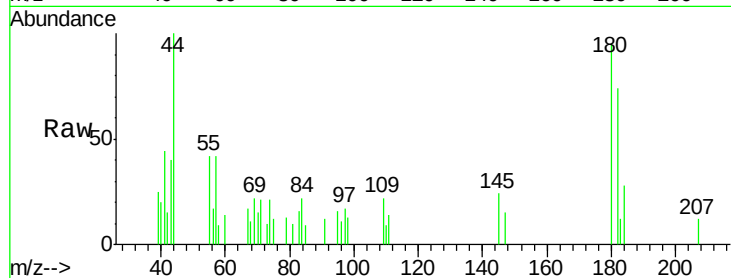




#96
 1,2,3-Trichlorobenzene
 Concen: 0.578 ug/l
 RT: 14.00 min Scan# 4171
 Delta R.T. 0.01 min
 Lab File: VU024527.D
 Acq: 14 Jun 2018 10:20

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	180	Resp	2056
Ion Ratio	Lower	Upper	
180	100		
182	82.2	47.9	143.7
145	25.0	15.4	46.1



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

