

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061418\
 Data File : VU024532.D
 Acq On : 14 Jun 2018 12:15
 Operator : MD/SY
 Sample : J3459-02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jun 15 01:33:27 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

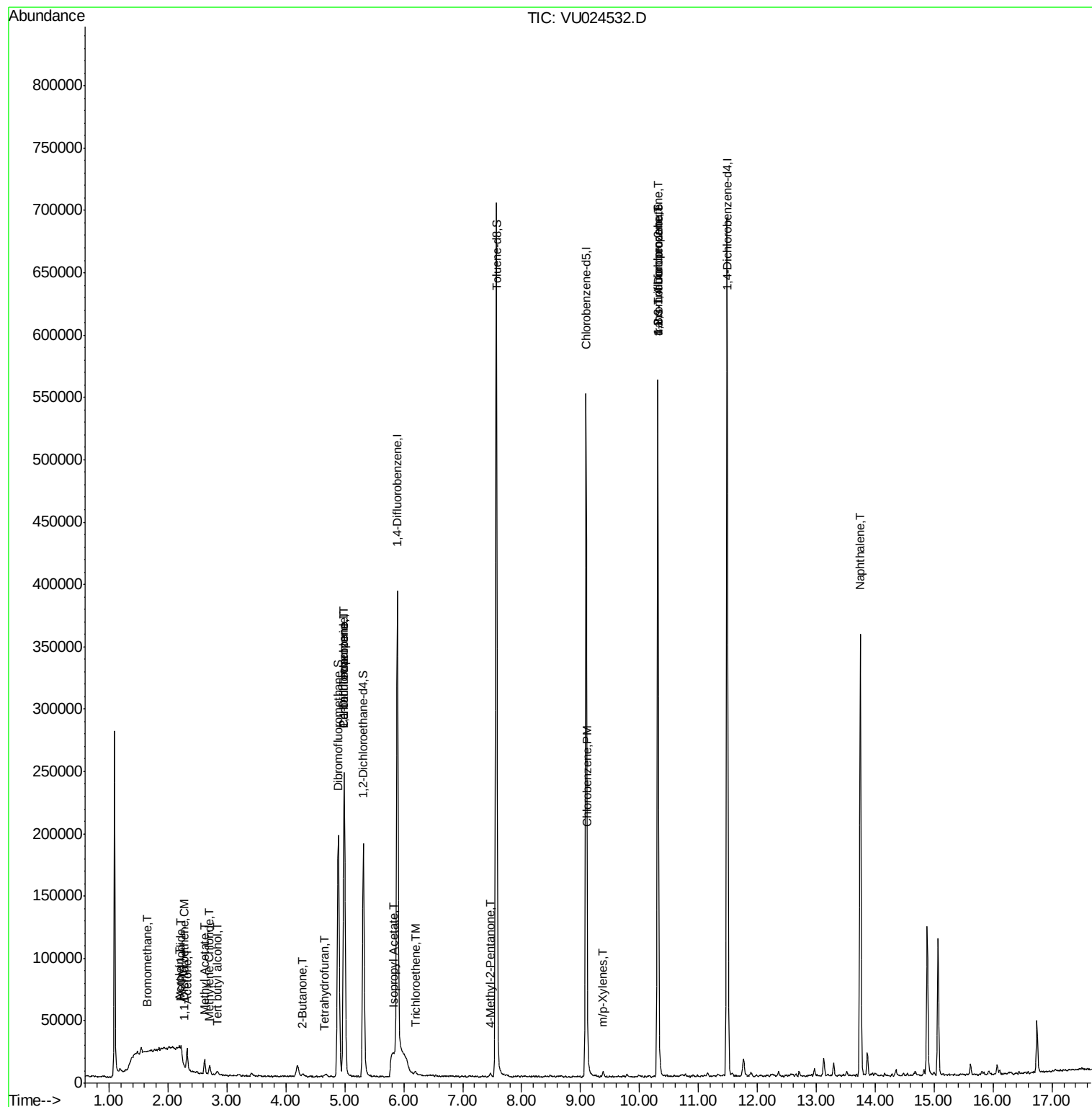
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	194836	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	327519	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	308683	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	182110	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	146470	46.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.10%	
35) Dibromofluoromethane	4.89	113	131619	48.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.84%	
50) Toluene-d8	7.57	98	480676	48.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.96%	
62) 4-Bromofluorobenzene	10.31	95	187659	47.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.34%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.64	94	408	0.328	ug/l #	72
6) Chloroethane	1.71	64	292	Below Cal	#	56
8) Diethyl Ether	2.10	74	64	Below Cal	#	1
10) Methyl Iodide	2.22	142	50	5.310	ug/l #	1
11) Tert butyl alcohol	2.84	59	2694	3.482	ug/l	96
12) 1,1-Dichloroethene	2.28	96	611	0.275	ug/l #	1
13) Acrolein	2.19	56	316	0.778	ug/l #	64
16) Acetone	2.32	43	16329	9.555	ug/l	92
18) Methyl Acetate	2.62	43	14235	3.885	ug/l	98
20) Methylene Chloride	2.70	84	3397	1.267	ug/l	90
25) 2-Butanone	4.28	43	4510	1.965	ug/l	98
29) Tetrahydrofuran	4.64	42	288	0.203	ug/l #	13
31) Cyclohexane	4.99	56	3601	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	13296	3.455	ug/l #	53
38) Carbon Tetrachloride	4.99	117	18411	4.350	ug/l #	16
43) Isopropyl Acetate	5.81	43	22490	3.102	ug/l #	62
44) Trichloroethene	6.19	130	728	0.233	ug/l	99
51) 4-Methyl-2-Pentanone	7.47	43	2720	0.597	ug/l #	85
65) Chlorobenzene	9.12	112	2136	0.271	ug/l	95
68) m/p-Xylenes	9.38	106	1332	0.251	ug/l	98
76) 1,2,3-Trichloropropane	10.31	75	91927	22.928	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	91927	53.065	ug/l #	100
95) Naphthalene	13.75	128	282856	21.516	ug/l	100

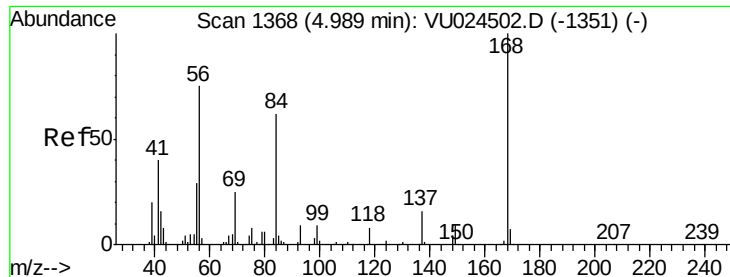
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
Quant Title : SW846 8260
QLast Update : Wed Jun 13 13:55:26 2018
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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: VU024532.D

Acq: 14 Jun 2018 12:15

Instrument :

MSVOA_U

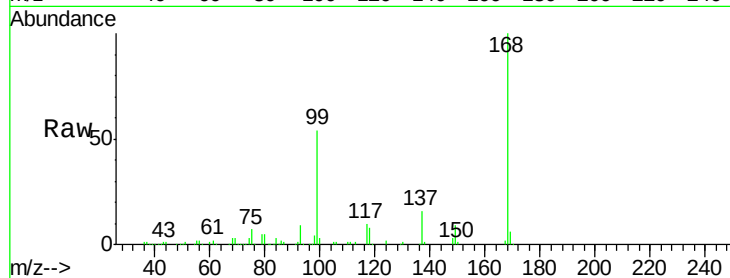
ClientSampleId :

Tot Ion:168 Resp: 194836

Ion Ratio Lower Upper

168 100

99 53.7 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VU0

4.99

80000

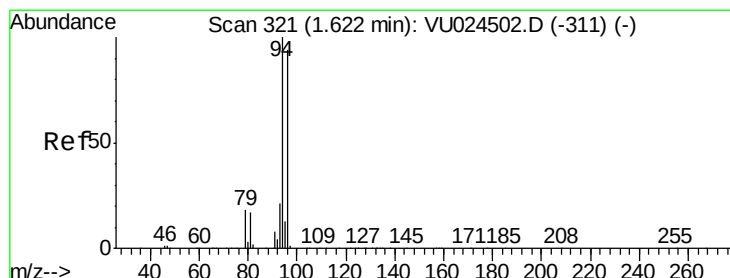
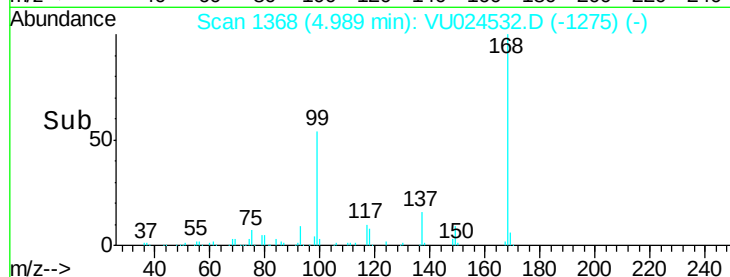
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.328 ug/l

RT: 1.64 min Scan# 325

Delta R.T. 0.01 min

Lab File: VU024532.D

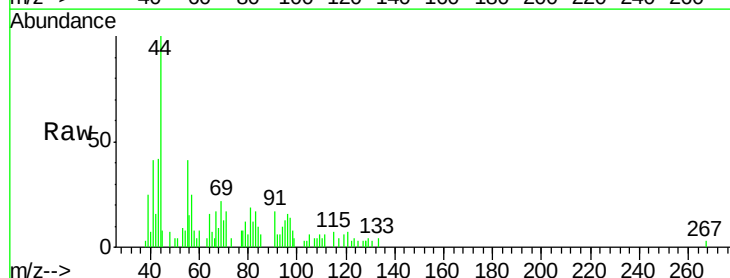
Acq: 14 Jun 2018 12:15

Tgt Ion: 94 Resp: 408

Ion Ratio Lower Upper

94 100

96 119.8 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

600

500

400

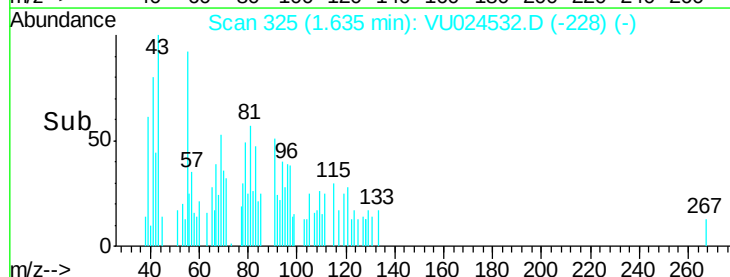
300

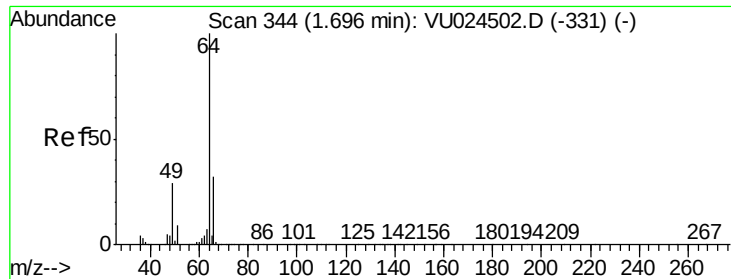
200

100

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 349

Delta R.T. 0.02 min

Lab File: VU024532.D

Acq: 14 Jun 2018 12:15

Instrument :

MSVOA_U

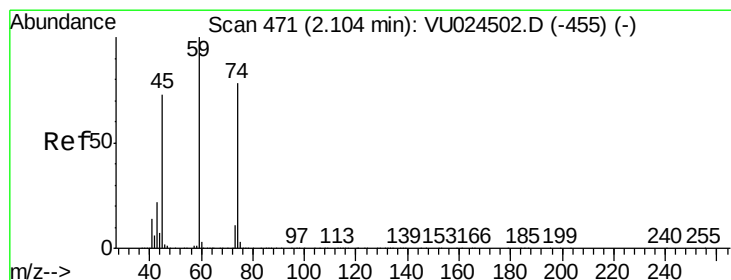
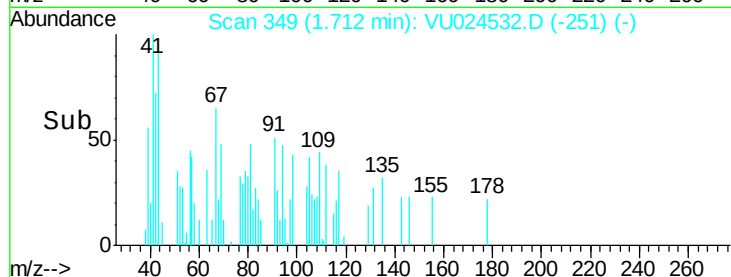
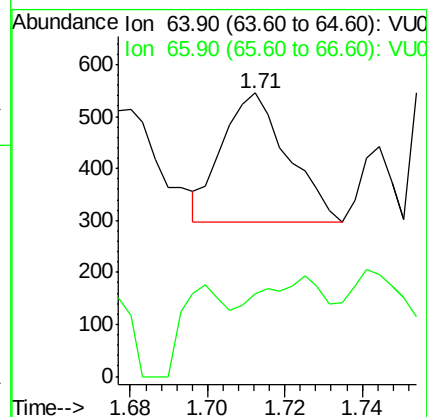
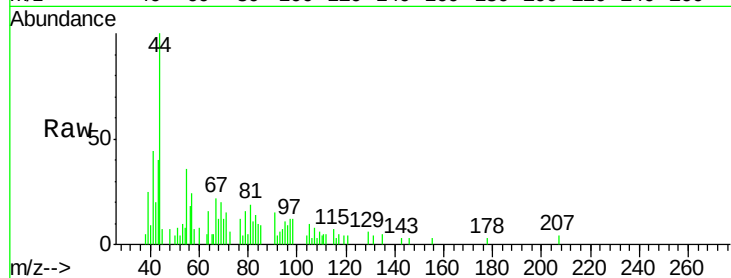
ClientSampled :

Tot Ion: 64 Resp: 292

Ion Ratio Lower Upper

64 100

66 7.2 25.5 38.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.10 min Scan# 470

Delta R.T. -0.00 min

Lab File: VU024532.D

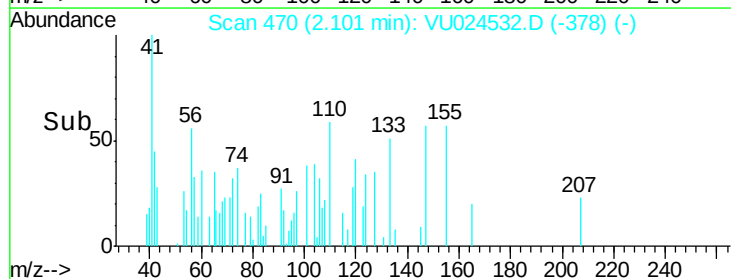
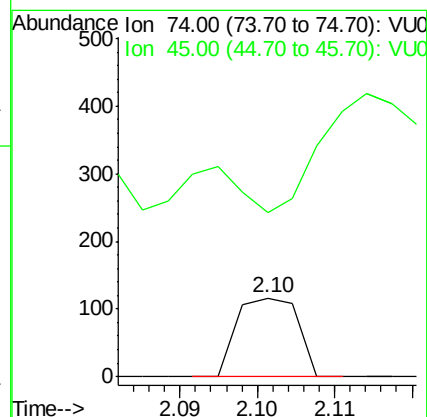
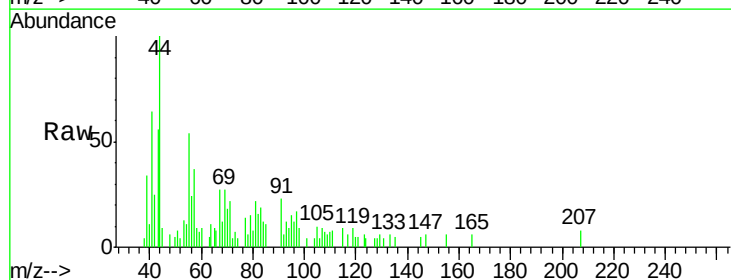
Acq: 14 Jun 2018 12:15

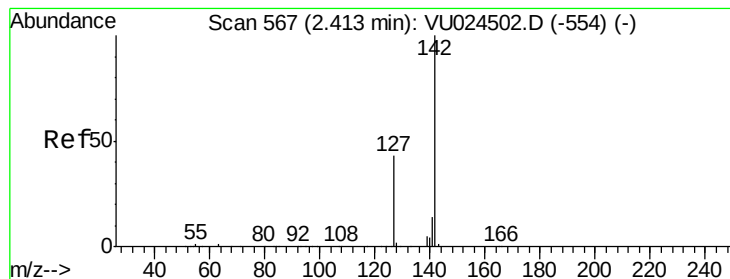
Tgt Ion: 74 Resp: 64

Ion Ratio Lower Upper

74 100

45 421.9 55.0 165.0#





#10

Methvl Iodide

Concen: 5.310 ug/l

RT: 2.22 min Scan# 507

Delta R.T. -0.19 min

Lab File: VU024532.D

Acq: 14 Jun 2018 12:15

Instrument :

MSVOA_U

ClientSampleId :

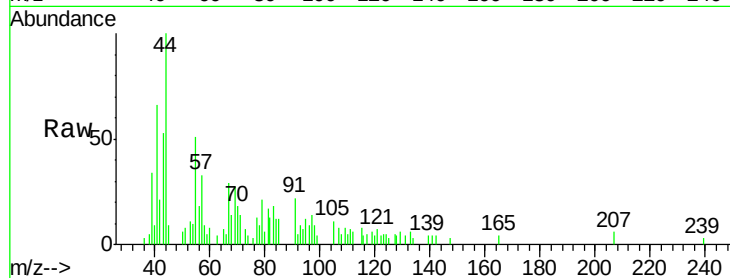
Tot Ion:142 Resp: 50

Ion Ratio Lower Upper

142 100

127 196.0 35.6 53.4#

141 50.0 11.7 17.5#



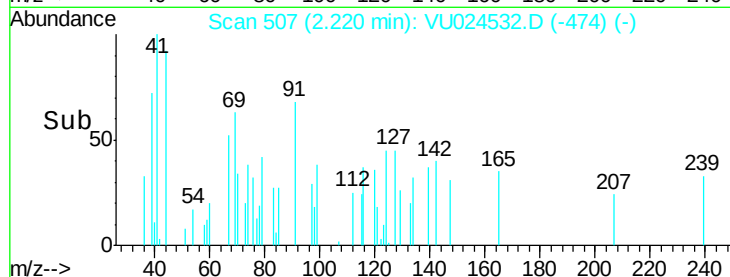
Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

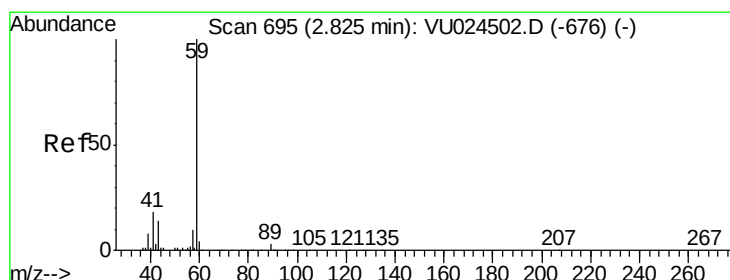
Ion 140.80 (140.50 to 141.50): V

2.22

Time-->



Time-->



#11

Tert butyl alcohol

Concen: 3.482 ug/l

RT: 2.84 min Scan# 699

Delta R.T. 0.01 min

Lab File: VU024532.D

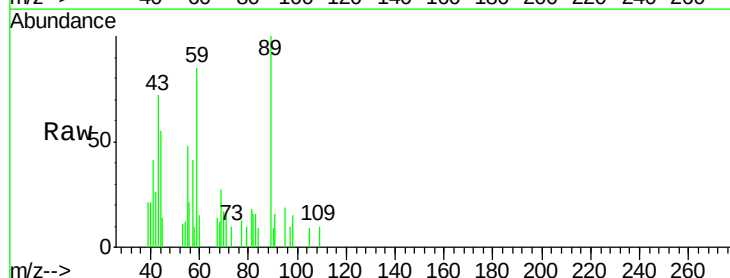
Acq: 14 Jun 2018 12:15

Tgt Ion: 59 Resp: 2694

Ion Ratio Lower Upper

59 100

57 9.0 8.5 12.7

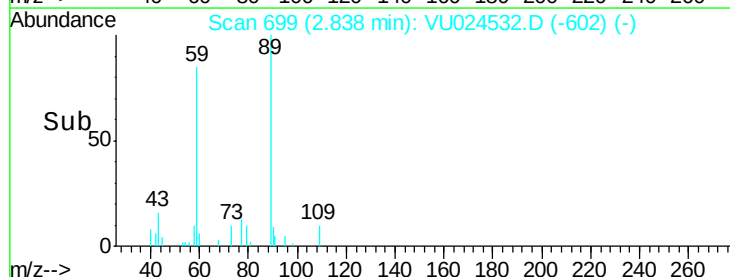


Abundance Ion 59.00 (58.70 to 59.70): VU0

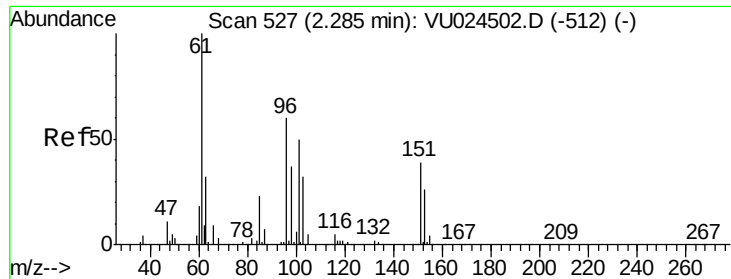
Ion 57.00 (56.70 to 57.70): VU0

2.84

Time-->



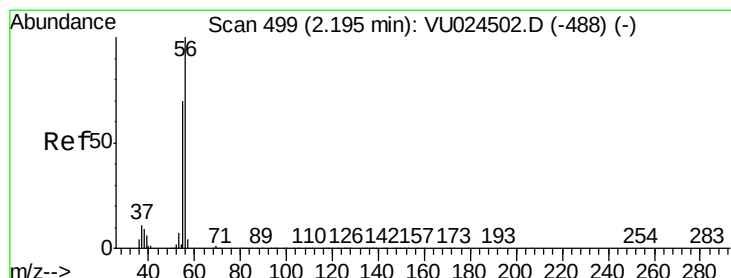
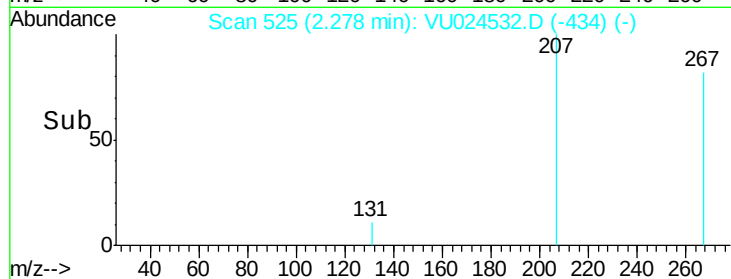
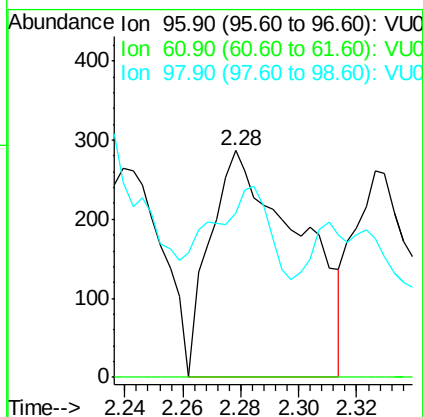
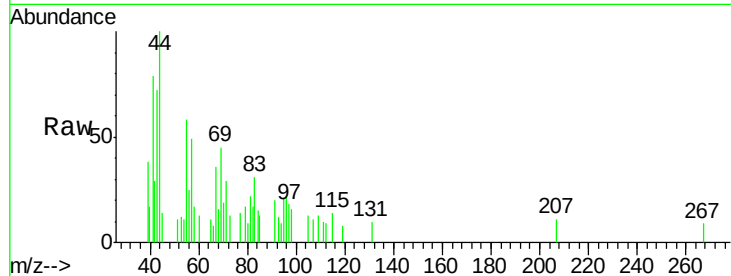
Time-->



#12
 1,1-Dichloroethene
 Concen: 0.275 ug/l
 RT: 2.28 min Scan# 525
 Delta R.T. -0.01 min
 Lab File: VU024532.D
 Acq: 14 Jun 2018 12:15

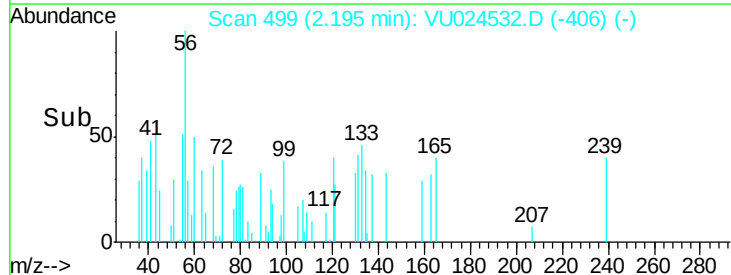
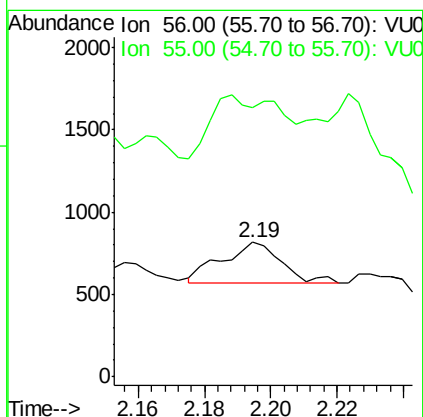
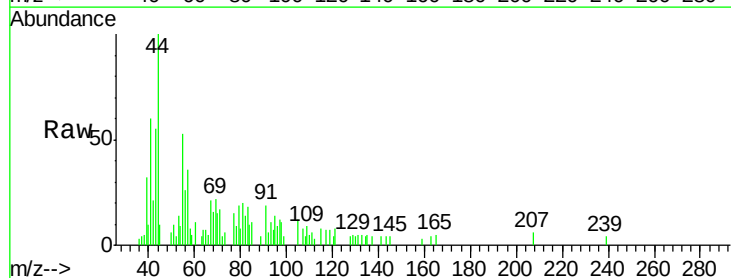
Instrument :
 MSVOA_U
 ClientSampleId :

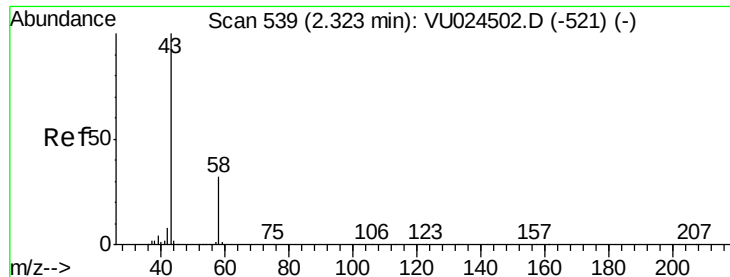
Tot Ion: 96 Resp: 611
 Ion Ratio Lower Upper
 96 100
 61 0.0 141.7 212.5#
 98 17.4 51.6 77.4#



#13
 Acrolein
 Concen: 0.778 ug/l
 RT: 2.19 min Scan# 499
 Delta R.T. 0.00 min
 Lab File: VU024532.D
 Acq: 14 Jun 2018 12:15

Tgt Ion: 56 Resp: 316
 Ion Ratio Lower Upper
 56 100
 55 103.2 58.4 87.6#





#16

Acetone

Concen: 9.555 ug/l

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU024532.D

Acq: 14 Jun 2018 12:15

Instrument :

MSVOA_U

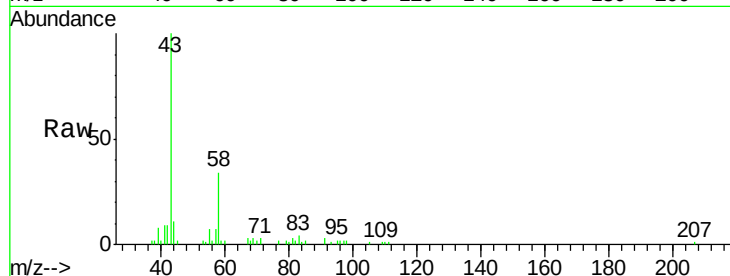
ClientSampleId :

Tot Ion: 43 Resp: 16329

Ion Ratio Lower Upper

43 100

58 34.6 24.4 36.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

12000

10000

8000

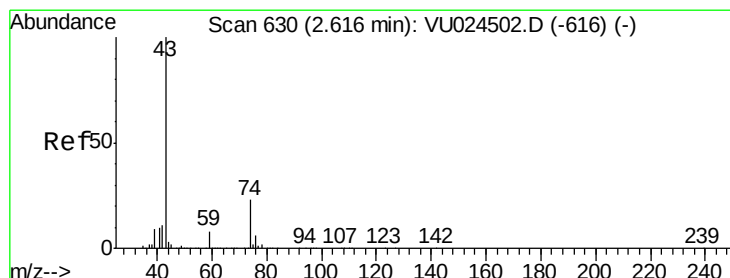
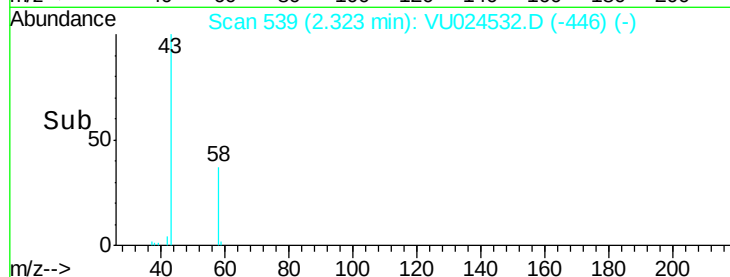
6000

4000

2000

0

Time--> 2.25 2.30 2.35 2.40



#18

Methyl Acetate

Concen: 3.885 ug/l

RT: 2.62 min Scan# 631

Delta R.T. 0.00 min

Lab File: VU024532.D

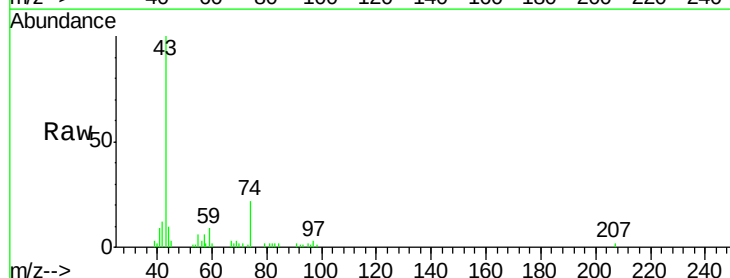
Acq: 14 Jun 2018 12:15

Tgt Ion: 43 Resp: 14235

Ion Ratio Lower Upper

43 100

74 23.6 18.0 27.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

10000

8000

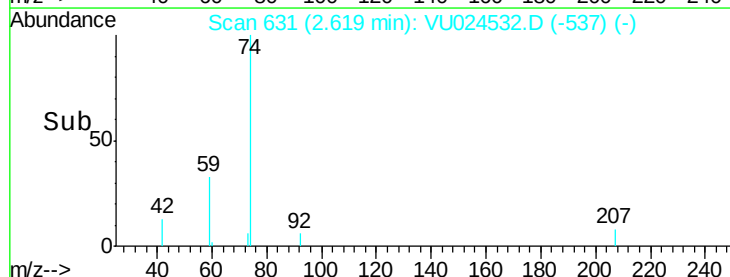
6000

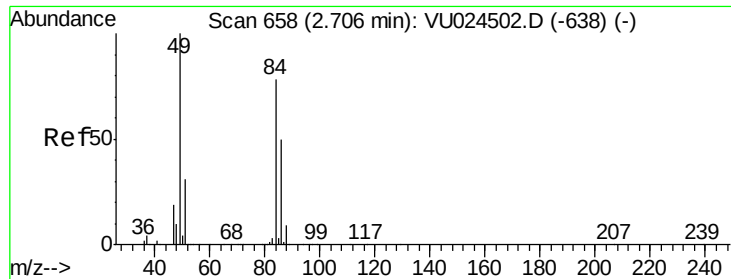
4000

2000

0

Time--> 2.55 2.60 2.65 2.70

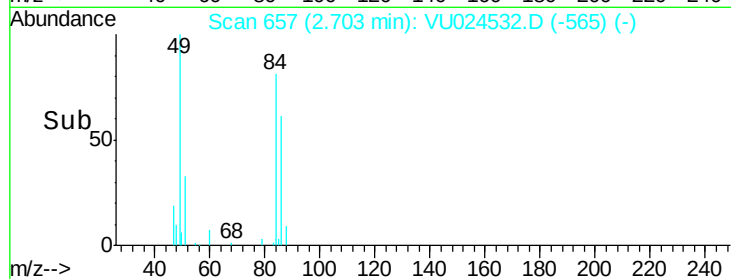
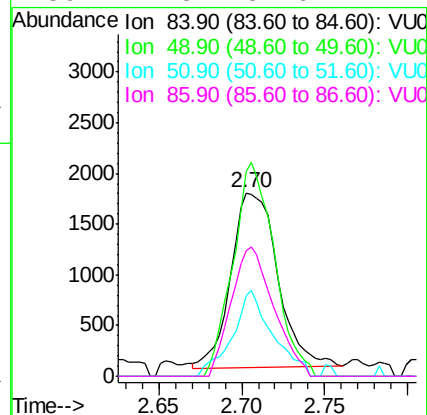
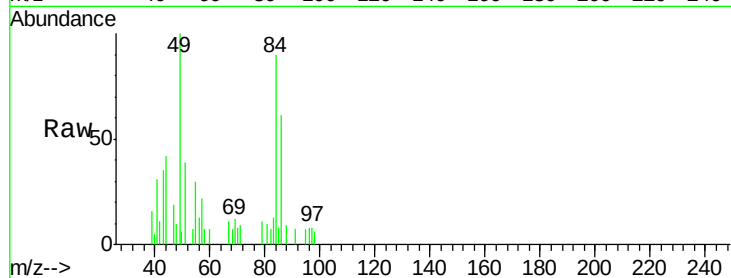




#20
Methylene Chloride
Concen: 1.267 ug/l
RT: 2.70 min Scan# 657
Delta R.T. -0.00 min
Lab File: VU024532.D
Acq: 14 Jun 2018 12:15

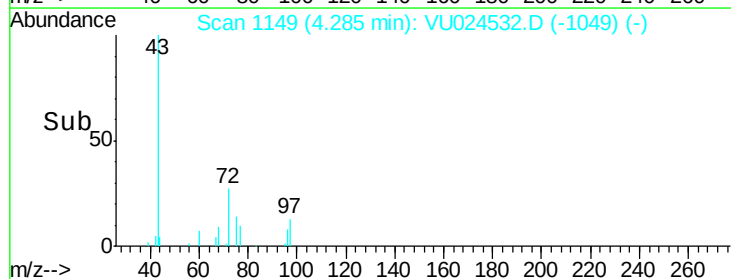
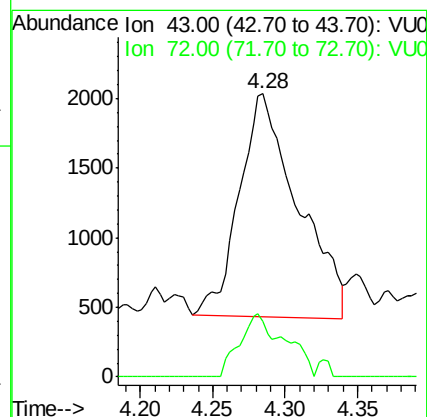
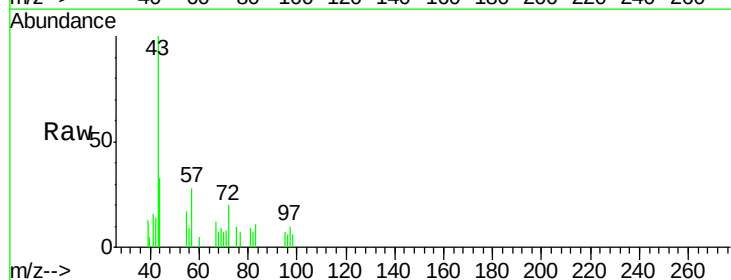
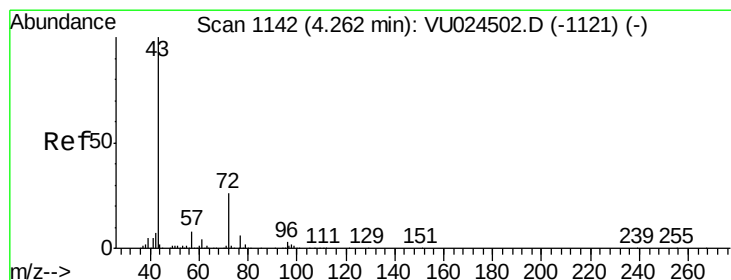
Instrument :
MSVOA_U
ClientSampleId :

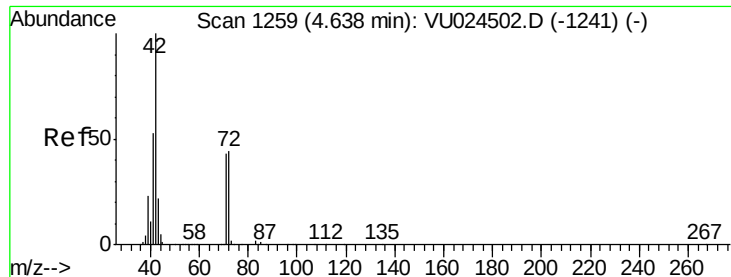
Tot Ion:	84	Resp:	3397
Ion	Ratio	Lower	Upper
84	100		
49	118.3	103.8	155.8
51	46.2	32.0	48.0
86	72.3	51.6	77.4



#25
2-Butanone
Concen: 1.965 ug/l
RT: 4.28 min Scan# 1149
Delta R.T. 0.02 min
Lab File: VU024532.D
Acq: 14 Jun 2018 12:15

Tgt Ion:	43	Resp:	4510
Ion	Ratio	Lower	Upper
43	100		
72	25.3	19.6	29.4

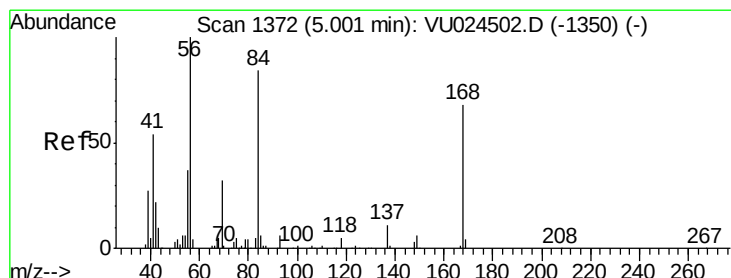
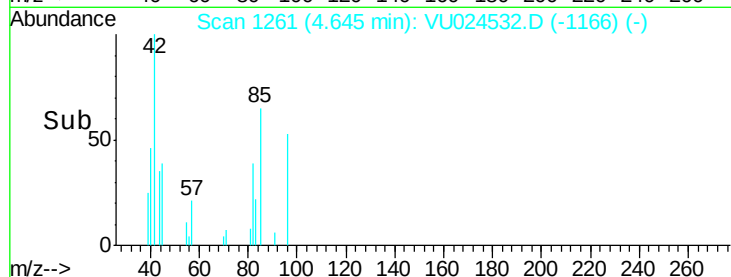
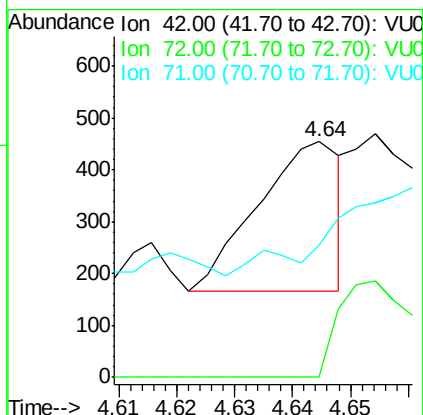
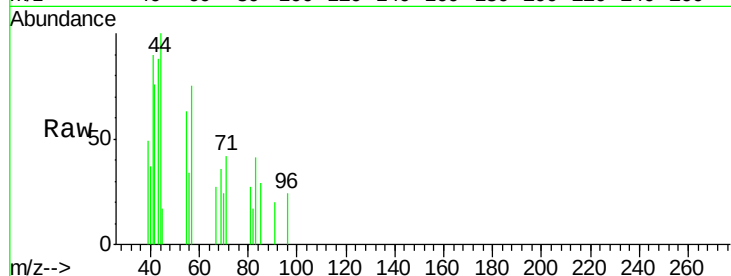




#29
Tetrahydrofuran
Concen: 0.203 ug/l
RT: 4.64 min Scan# 1261
Delta R.T. 0.01 min
Lab File: VU024532.D
Acq: 14 Jun 2018 12:15

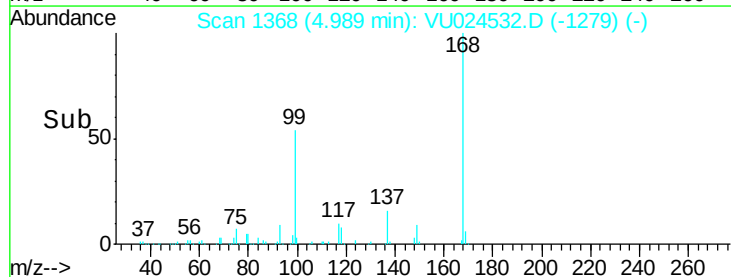
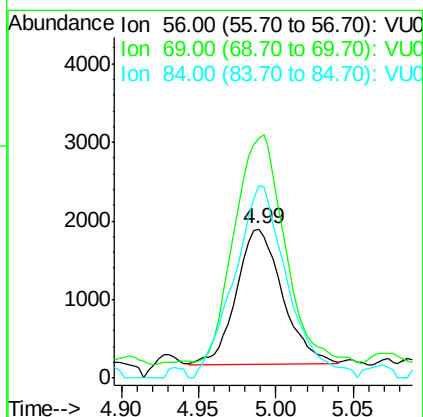
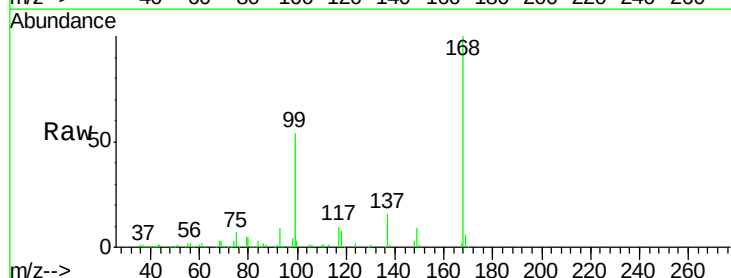
Instrument :
MSVOA_U
ClientSampled :

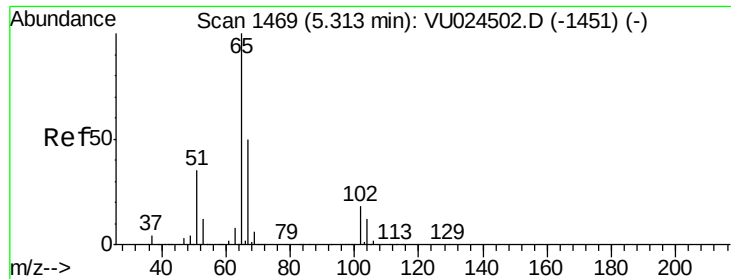
Tot Ion: 42 Resp: 288
Ion Ratio Lower Upper
42 100
72 76.0 34.5 51.7#
71 117.4 32.2 48.4#



#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1368
Delta R.T. -0.01 min
Lab File: VU024532.D
Acq: 14 Jun 2018 12:15

Tgt Ion: 56 Resp: 3601
Ion Ratio Lower Upper
56 100
69 165.7 24.8 37.2#
84 142.6 65.2 97.8#

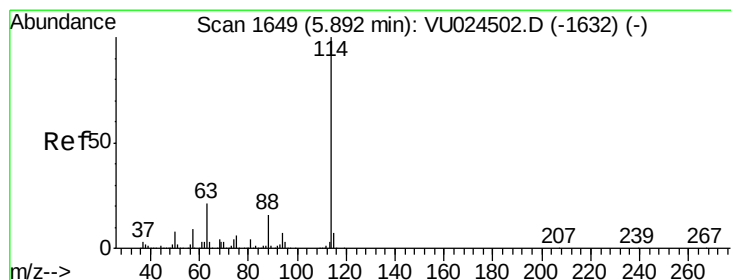
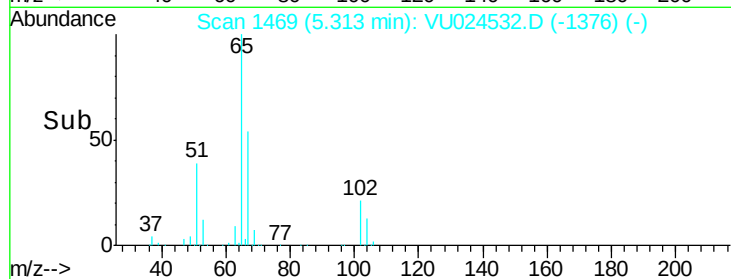
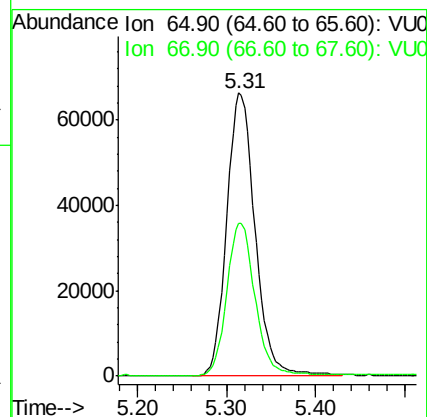
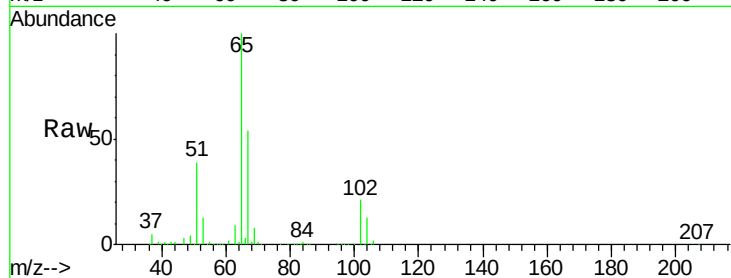




#33
 1,2-Dichloroethane-d4
 Concen: 46.049 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VU024532.D
 Acq: 14 Jun 2018 12:15

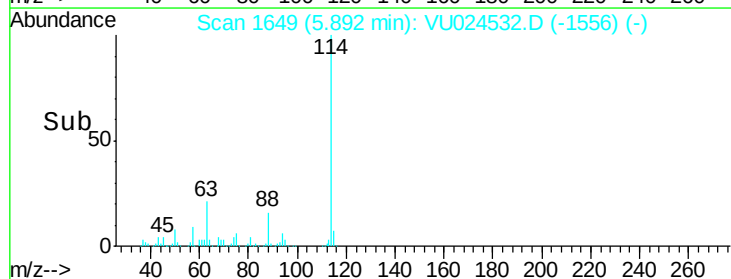
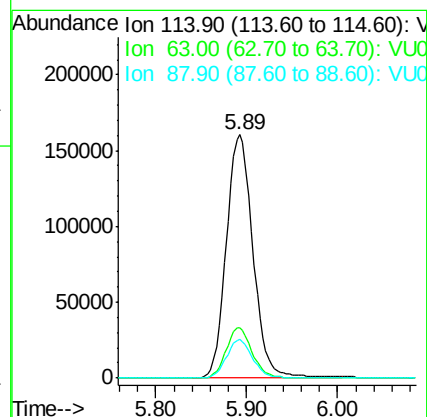
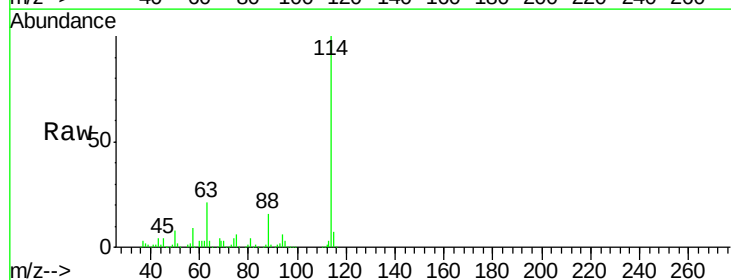
Instrument :
 MSVOA_U
 ClientSampleId :

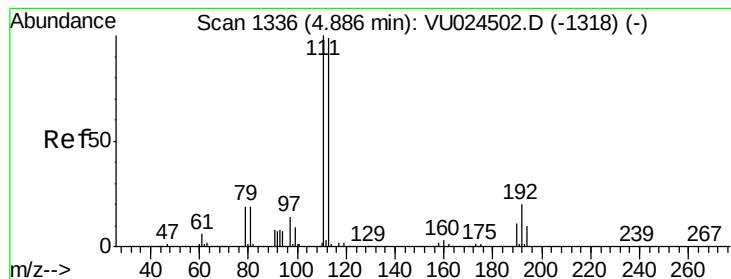
Tot Ion: 65 Resp: 146470
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1649
 Delta R.T. 0.00 min
 Lab File: VU024532.D
 Acq: 14 Jun 2018 12:15

Tgt Ion: 114 Resp: 327519
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 45.4
 88 15.8 0.0 31.0





#35

Dibromofluoromethane

Concen: 48.422 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU024532.D

Acq: 14 Jun 2018 12:15

Instrument :

MSVOA_U

ClientSampleId :

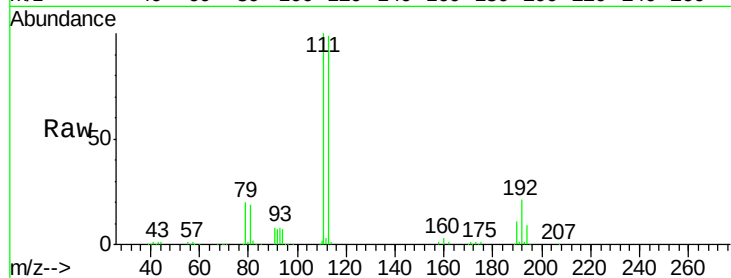
Tot Ion:113 Resp: 131619

Ion Ratio Lower Upper

113 100

111 102.8 82.2 123.4

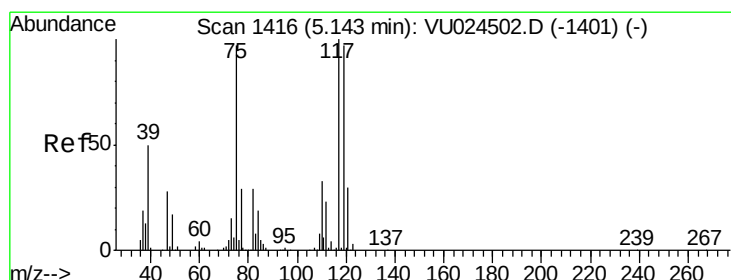
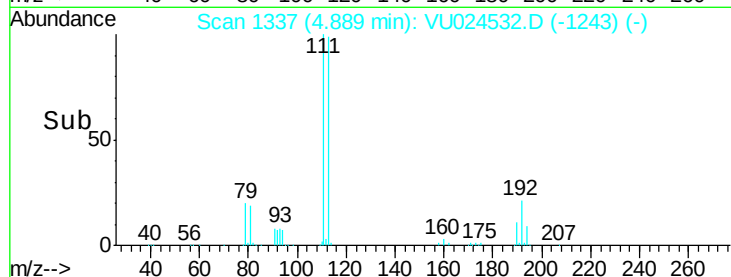
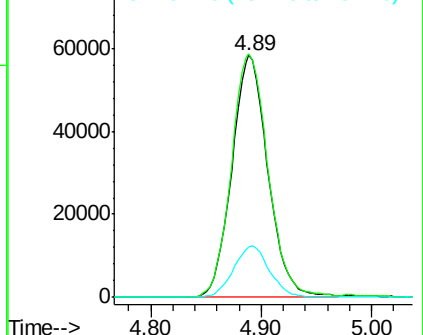
192 21.2 16.2 24.4



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: 3.455 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU024532.D

Acq: 14 Jun 2018 12:15

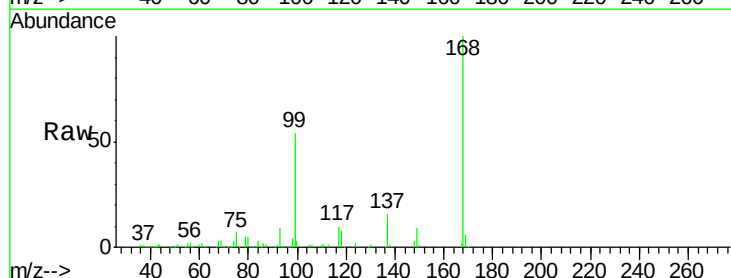
Tgt Ion: 75 Resp: 13296

Ion Ratio Lower Upper

75 100

110 10.6 17.0 50.9#

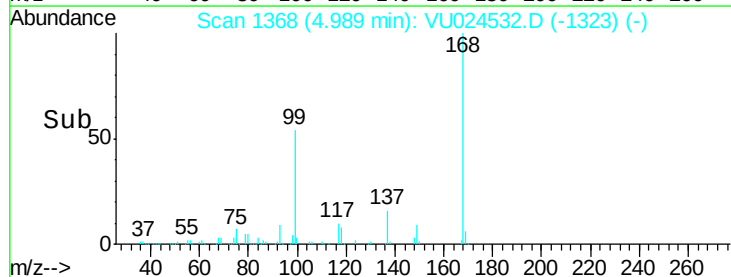
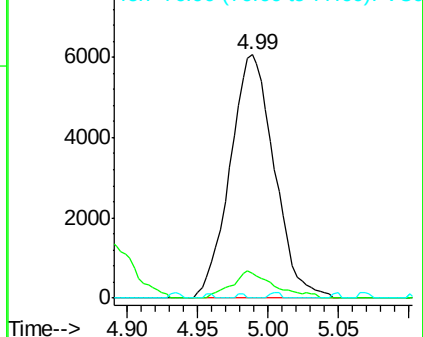
77 0.3 24.2 36.4#

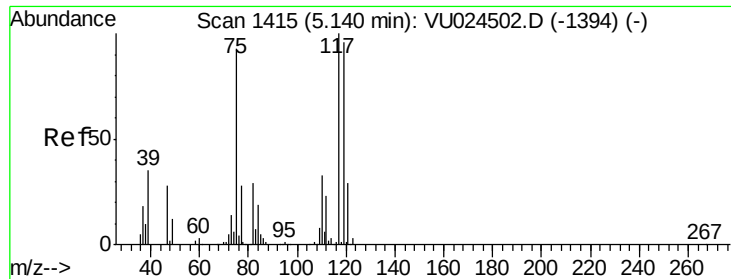


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0





#38

Carbon Tetrachloride

Concen: 4.350 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU024532.D

Acq: 14 Jun 2018 12:15

Instrument :

MSVOA_U

ClientSampled :

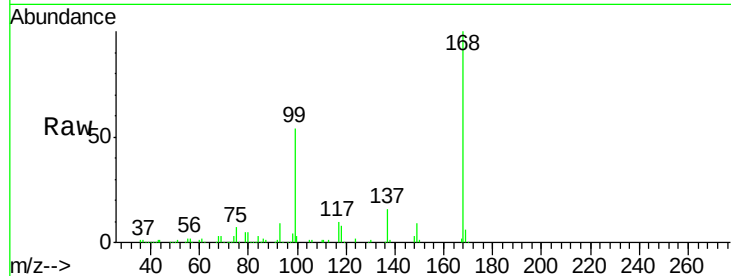
Tot Ion:117 Resp: 18411

Ion Ratio Lower Upper

117 100

119 4.7 76.1 114.1#

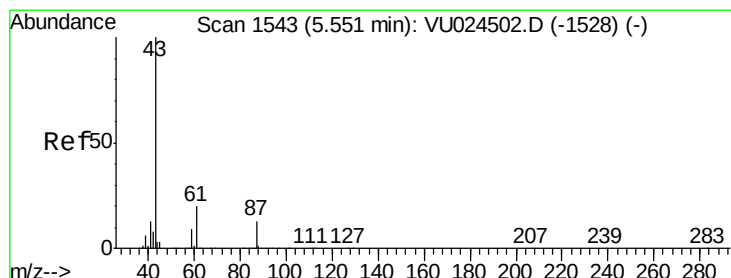
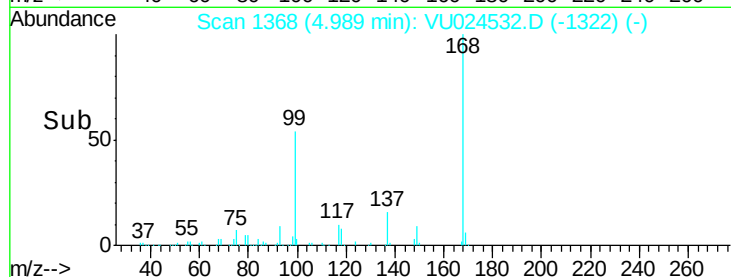
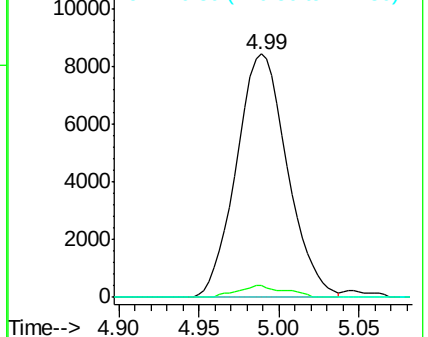
121 0.0 23.7 35.5#



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



#43

Isopropyl Acetate

Concen: 3.102 ug/l

RT: 5.81 min Scan# 1625

Delta R.T. 0.26 min

Lab File: VU024532.D

Acq: 14 Jun 2018 12:15

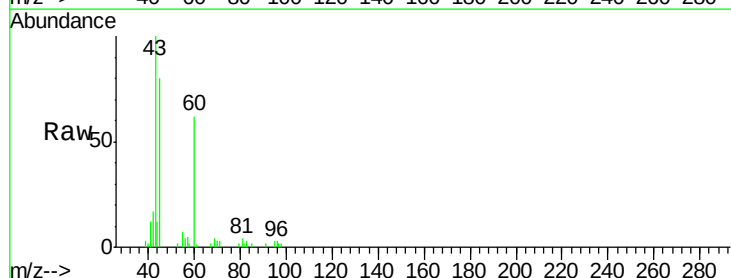
Tgt Ion: 43 Resp: 22490

Ion Ratio Lower Upper

43 100

61 0.4 15.4 23.0#

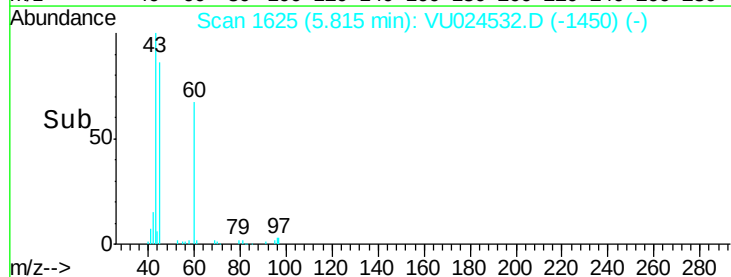
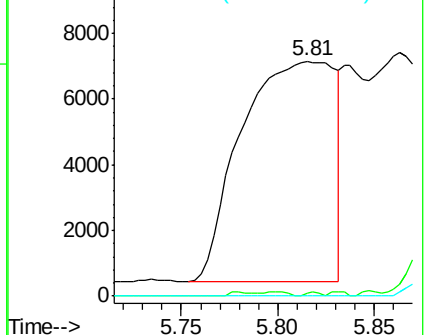
87 0.0 10.0 15.0#

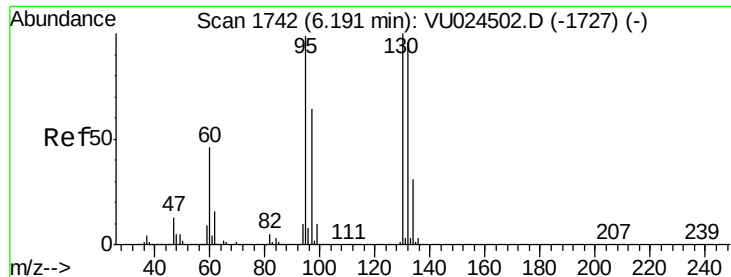


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0





#44

Trichloroethene

Concen: 0.233 ug/l

RT: 6.19 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VU024532.D

Acq: 14 Jun 2018 12:15

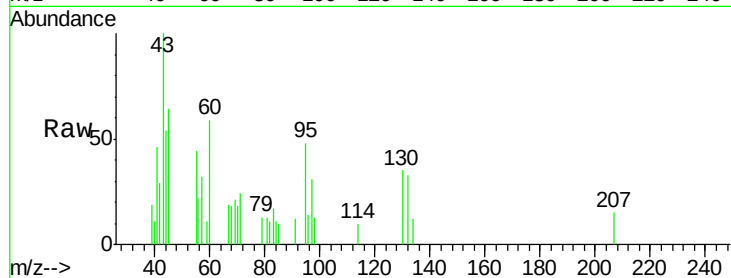
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:130 Resp: 728

Ion Ratio Lower Upper

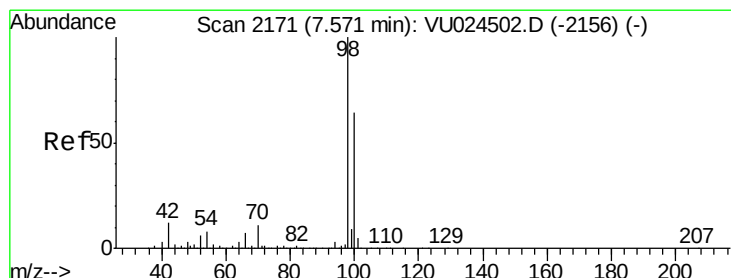
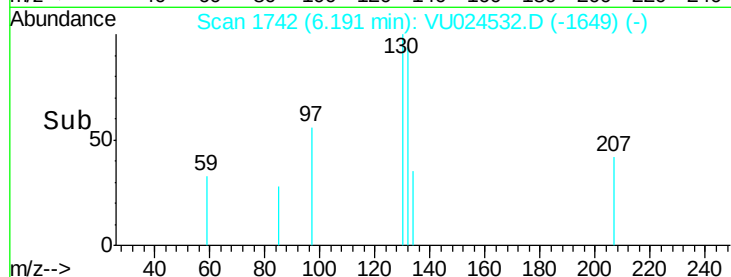
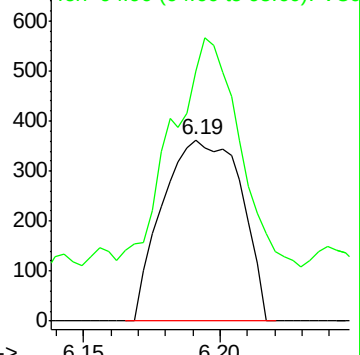
130 100

95 100.3 0.0 202.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VU0



#50

Toluene-d8

Concen: 48.481 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. 0.00 min

Lab File: VU024532.D

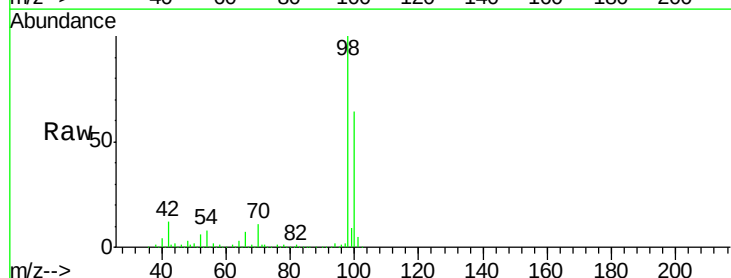
Acq: 14 Jun 2018 12:15

Tgt Ion: 98 Resp: 480676

Ion Ratio Lower Upper

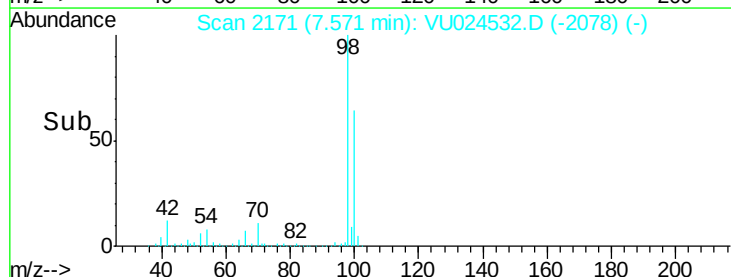
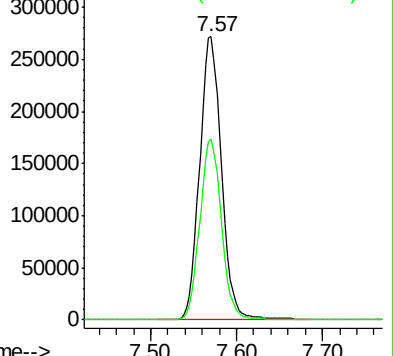
98 100

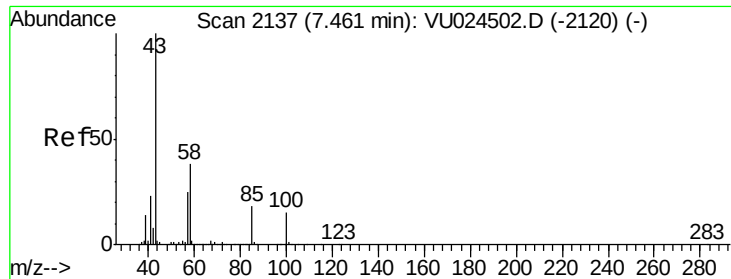
100 63.0 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU0

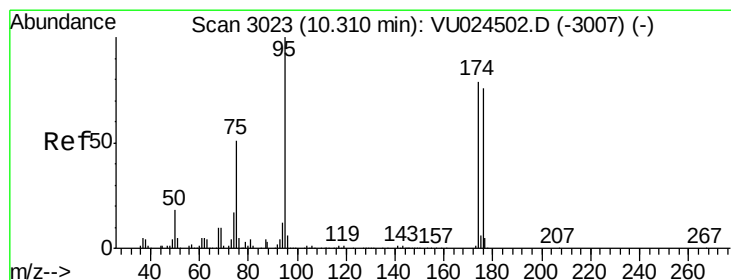
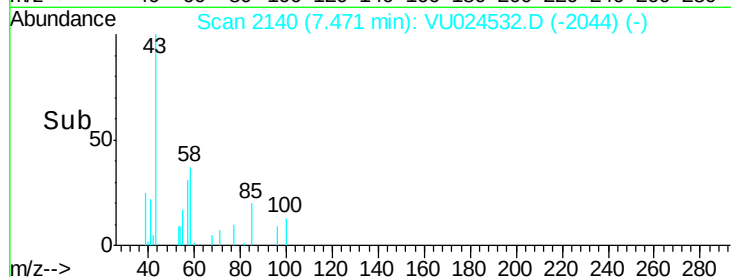
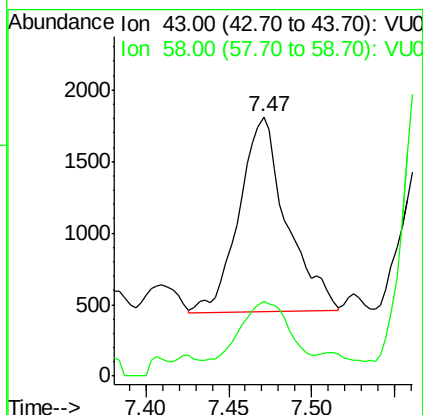
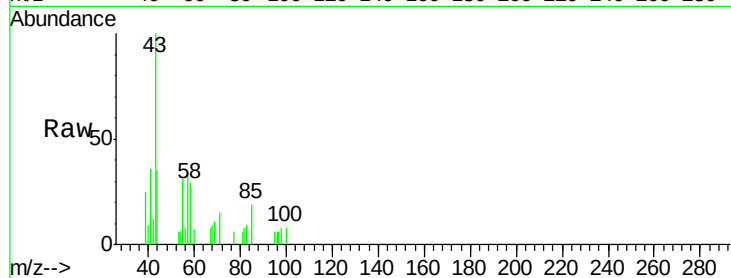




#51
 4-Methyl-2-Pentanone
 Concen: 0.597 ug/l
 RT: 7.47 min Scan# 2140
 Delta R.T. 0.01 min
 Lab File: VU024532.D
 Acq: 14 Jun 2018 12:15

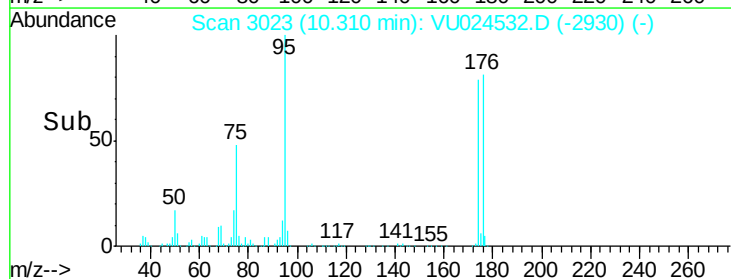
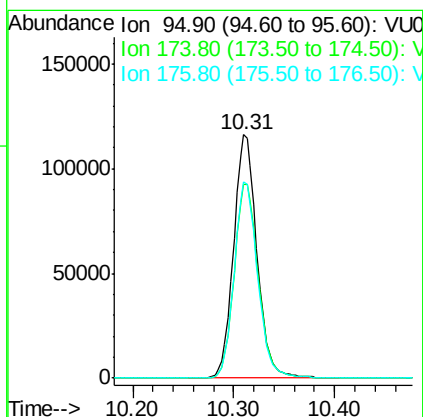
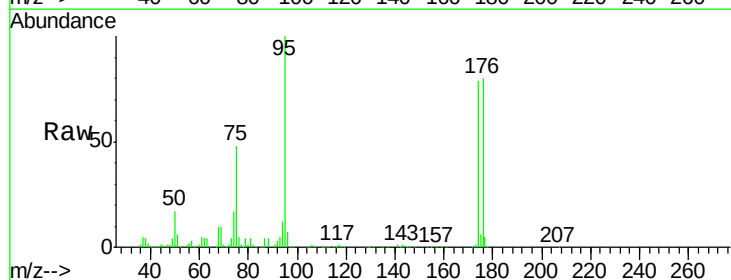
Instrument :
 MSVOA_U
 ClientSampleId :

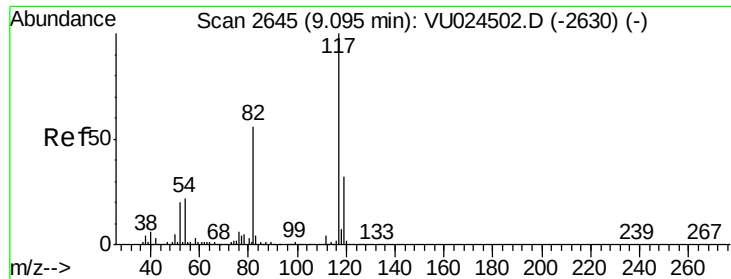
Tot Ion: 43 Resp: 2720
 Ion Ratio Lower Upper
 43 100
 58 28.5 30.0 45.0#



#62
 4-Bromofluorobenzene
 Concen: 47.671 ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. 0.00 min
 Lab File: VU024532.D
 Acq: 14 Jun 2018 12:15

Tgt Ion: 95 Resp: 187659
 Ion Ratio Lower Upper
 95 100
 174 81.9 0.0 165.8
 176 80.8 0.0 159.4

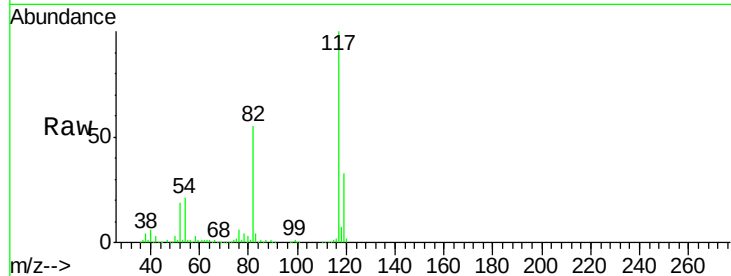




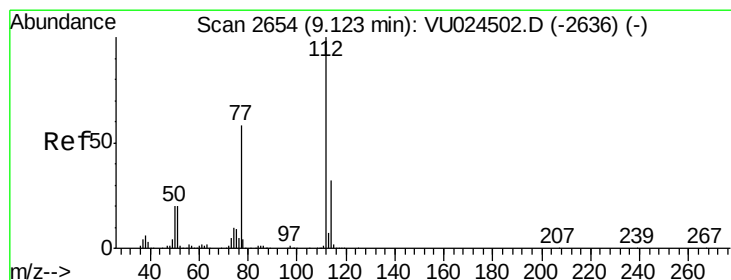
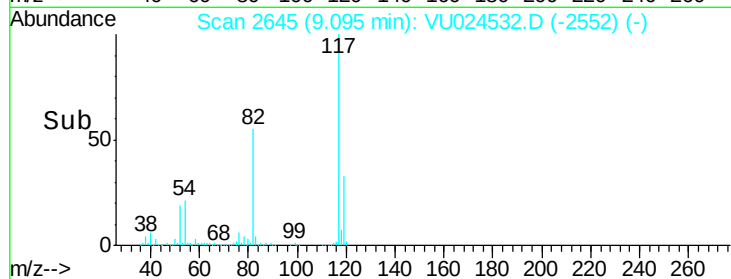
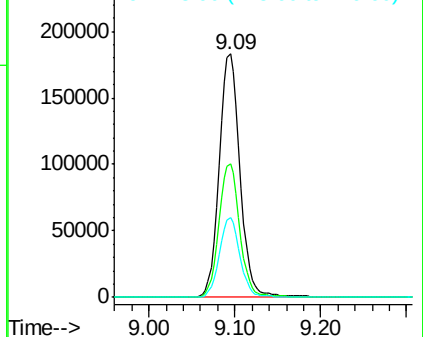
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU024532.D
Acq: 14 Jun 2018 12:15

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:117 Resp: 308683
Ion Ratio Lower Upper
117 100
82 54.8 44.3 66.5
119 32.7 25.4 38.2

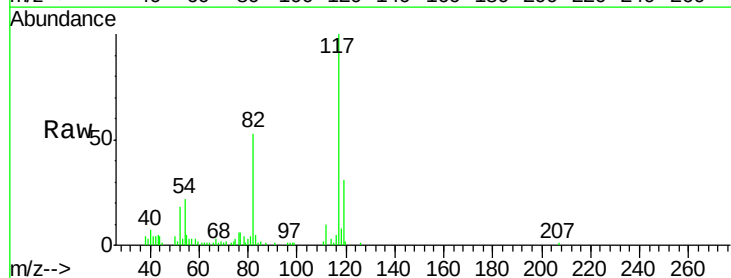


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

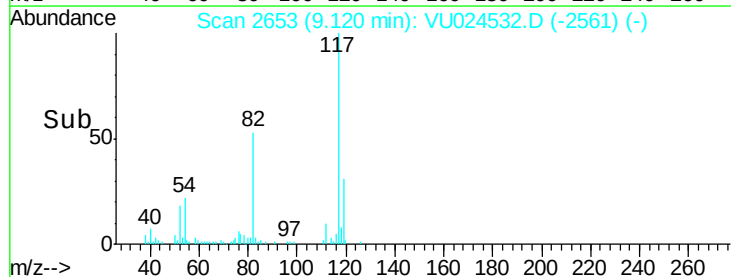
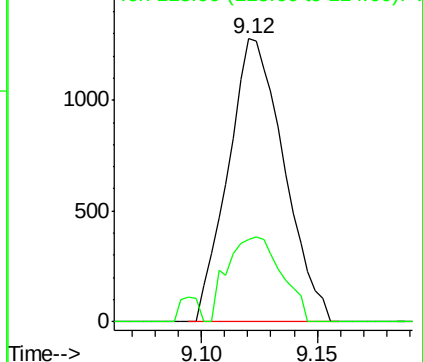


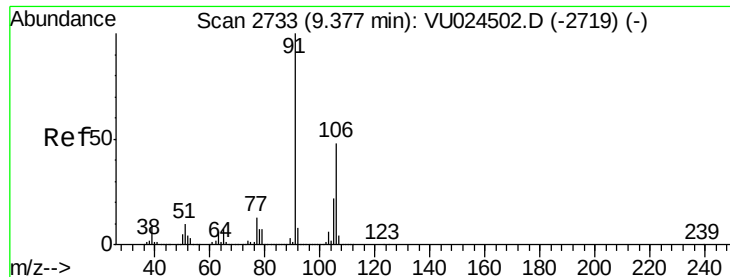
#65
Chlorobenzene
Concen: 0.271 ug/l
RT: 9.12 min Scan# 2653
Delta R.T. -0.00 min
Lab File: VU024532.D
Acq: 14 Jun 2018 12:15

Tgt Ion:112 Resp: 2136
Ion Ratio Lower Upper
112 100
114 29.1 25.6 38.4



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V

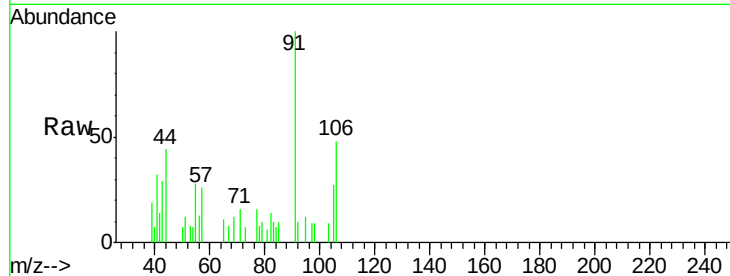




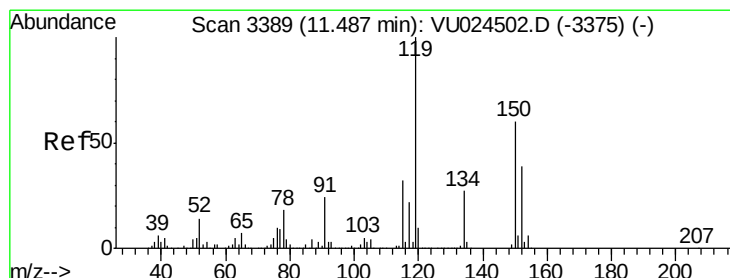
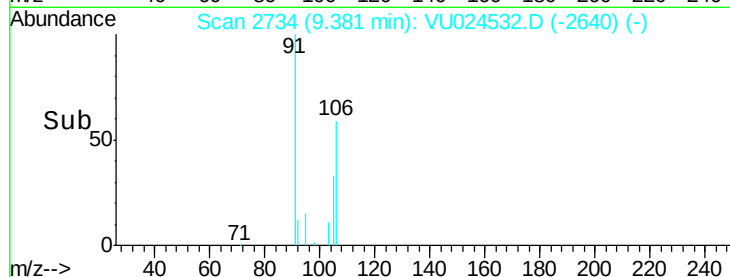
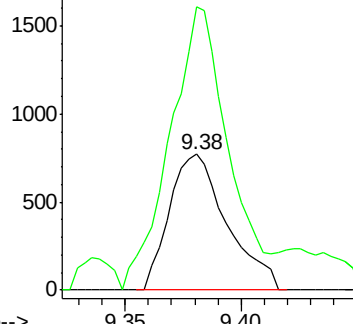
#68
m/p-Xvlenes
Concen: 0.251 ug/l
RT: 9.38 min Scan# 2734
Delta R.T. 0.00 min
Lab File: VU024532.D
Acq: 14 Jun 2018 12:15

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 1332
Ion Ratio Lower Upper
106 100
91 211.3 166.5 249.7

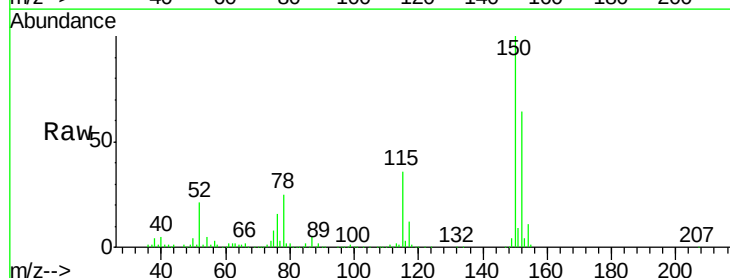


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

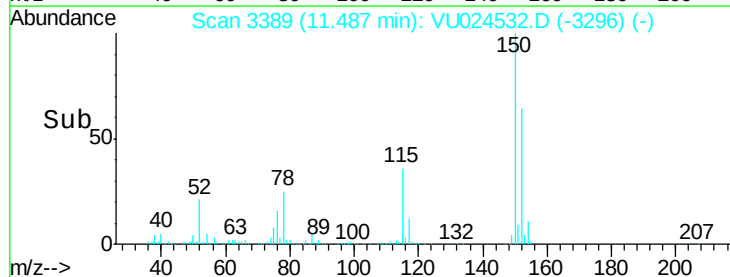
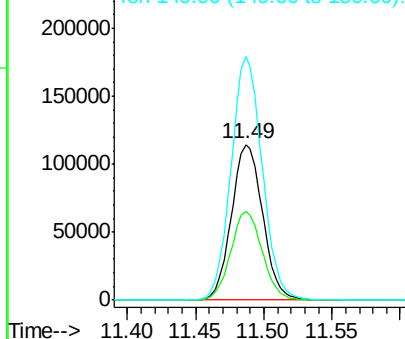


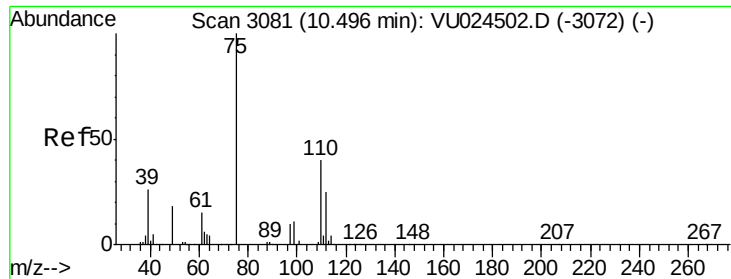
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.49 min Scan# 3389
Delta R.T. 0.00 min
Lab File: VU024532.D
Acq: 14 Jun 2018 12:15

Tgt Ion:152 Resp: 182110
Ion Ratio Lower Upper
152 100
115 57.6 43.0 129.0
150 156.0 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: 22.928 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024532.D

Acq: 14 Jun 2018 12:15

Instrument :

MSVOA_U

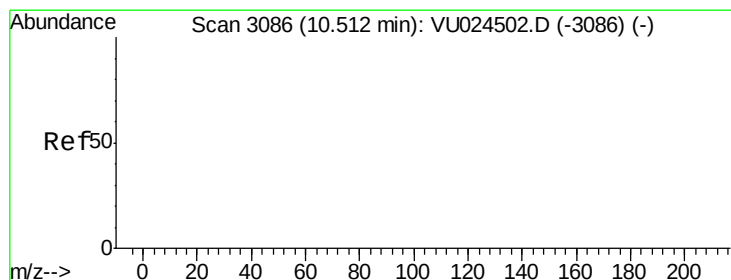
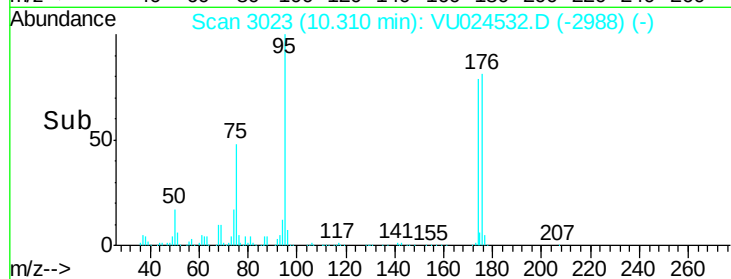
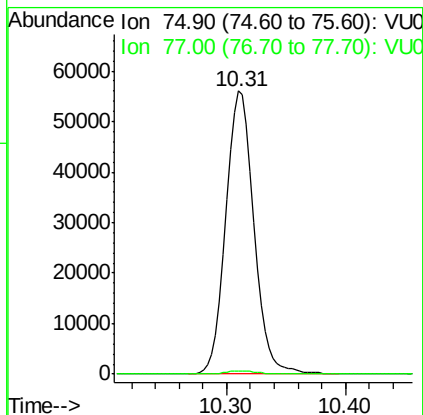
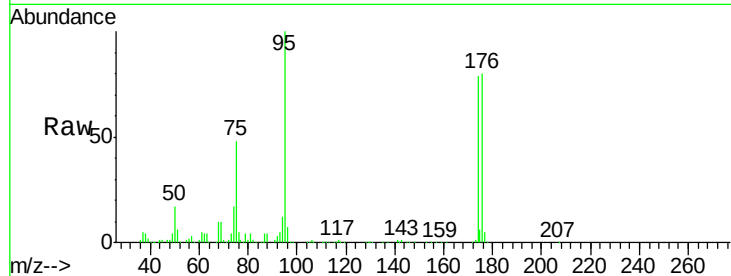
ClientSampleId :

Tot Ion: 75 Resp: 91927

Ion Ratio Lower Upper

75 100

77 1.5 20.9 62.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 53.065 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU024532.D

Acq: 14 Jun 2018 12:15

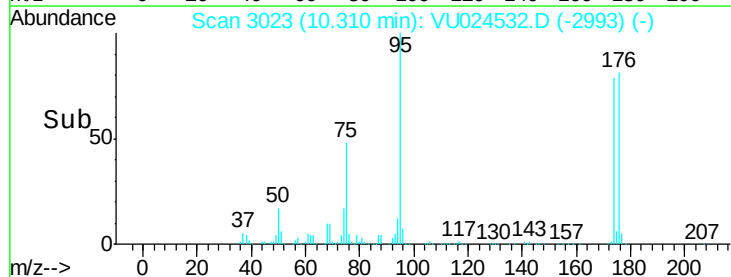
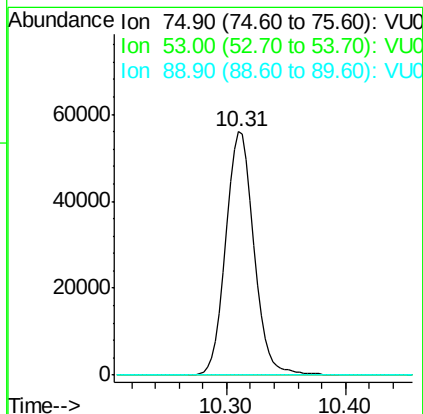
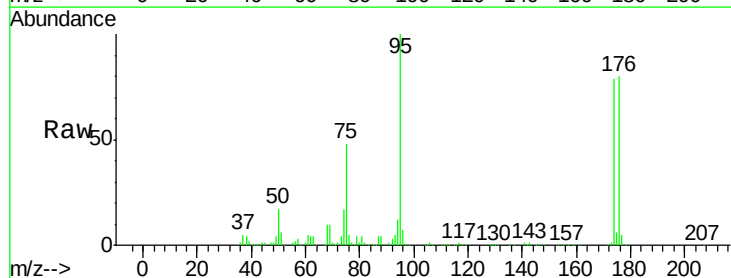
Tgt Ion: 75 Resp: 91927

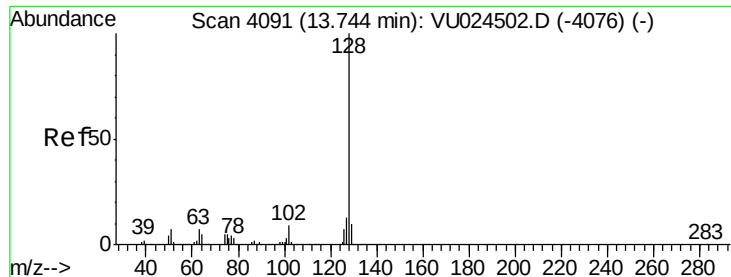
Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0#

89 0.0 0.0 0.0

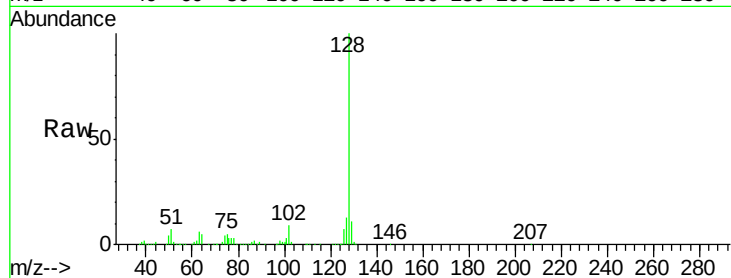




#95
 Naphthalene
 Concen: 21.516 ug/l
 RT: 13.75 min Scan# 4092
 Delta R.T. 0.00 min
 Lab File: VU024532.D
 Acq: 14 Jun 2018 12:15

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.6	16.0
129	10.8	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

