

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121718\
 Data File : VU028746.D
 Acq On : 18 Dec 2018 02:22
 Operator : MD/SY
 Sample : J6413-06
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 18 07:38:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U120618W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 07 00:39:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	81652	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	148466	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	128523	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	49628	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	66689	53.52	ug/l	0.00
Spiked Amount			Recovery	=	107.04%	
35) Dibromofluoromethane	4.88	113	49612	53.10	ug/l	0.00
Spiked Amount			Recovery	=	106.20%	
50) Toluene-d8	7.57	98	187835	50.82	ug/l	0.00
Spiked Amount			Recovery	=	101.64%	
62) 4-Bromofluorobenzene	10.30	95	60202	43.58	ug/l	0.00
Spiked Amount			Recovery	=	87.16%	

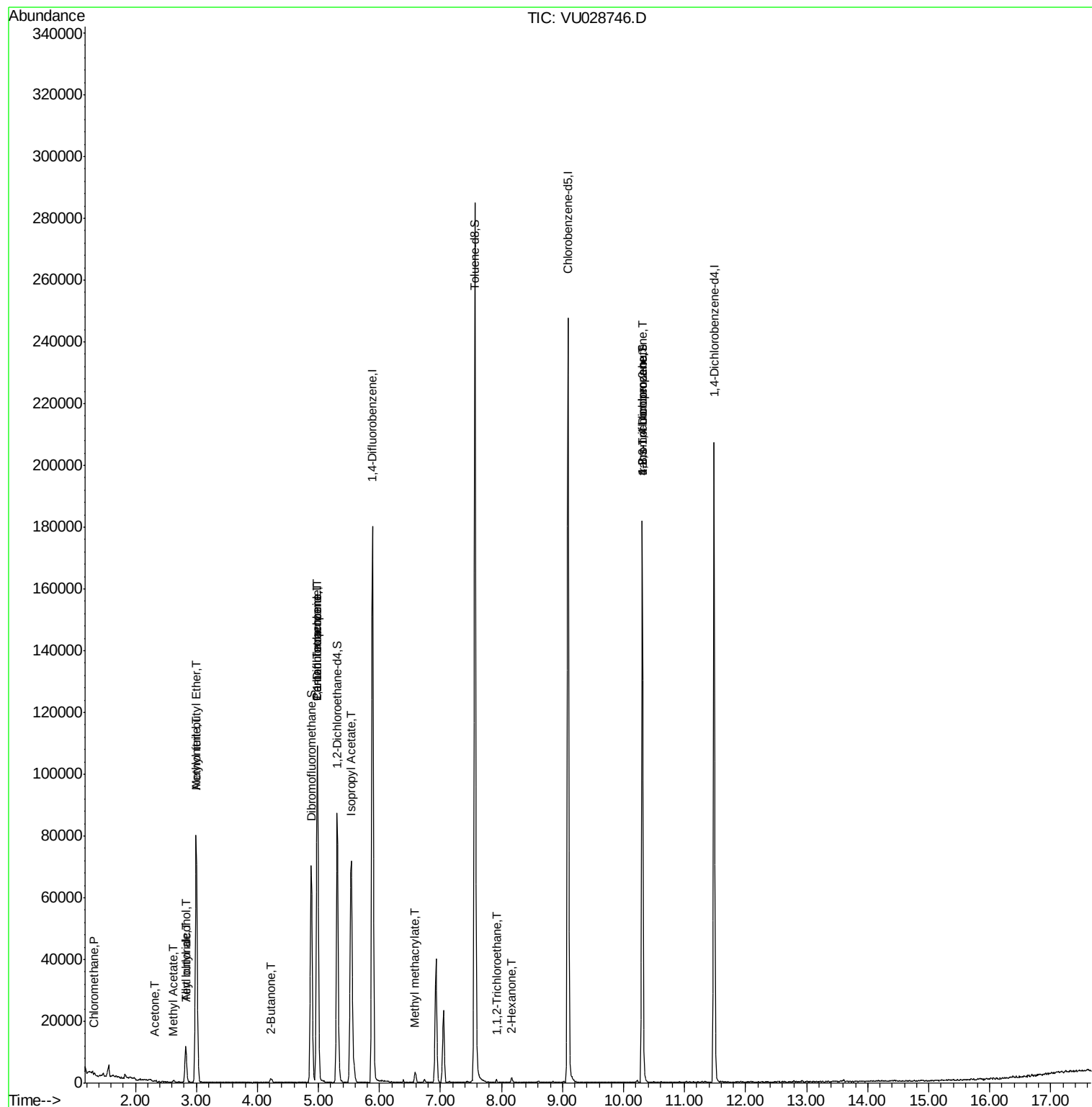
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	667	0.331	ug/l #	85
11) Tert butyl alcohol	2.83	59	13719	49.417	ug/l	99
14) Allyl chloride	2.83	41	3105	1.444	ug/l #	60
15) Acrylonitrile	3.00	53	788	1.022	ug/l #	11
16) Acetone	2.32	43	440	0.541	ug/l #	44
18) Methyl Acetate	2.63	43	1087	0.516	ug/l #	65
19) Methyl tert-butyl Ether	3.00	73	80220	23.277	ug/l	99
25) 2-Butanone	4.22	43	351	0.316	ug/l #	52
31) Cyclohexane	4.98	56	1764	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	7233	4.452	ug/l #	46
38) Carbon Tetrachloride	4.98	117	7985	6.098	ug/l #	15
43) Isopropyl Acetate	5.54	43	17620	5.304	ug/l #	62
48) Methyl methacrylate	6.58	41	894	0.541	ug/l #	28
55) 1,1,2-Trichloroethane	7.92	97	262	0.235	ug/l #	14
59) 2-Hexanone	8.16	43	1102	0.664	ug/l #	59
76) 1,2,3-Trichloropropane	10.30	75	31327	24.720	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.30	75	31327	60.666	ug/l #	100

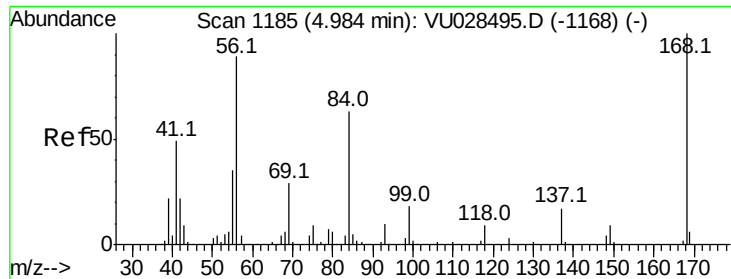
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VU028746.D

Acq: 18 Dec 2018 02:22

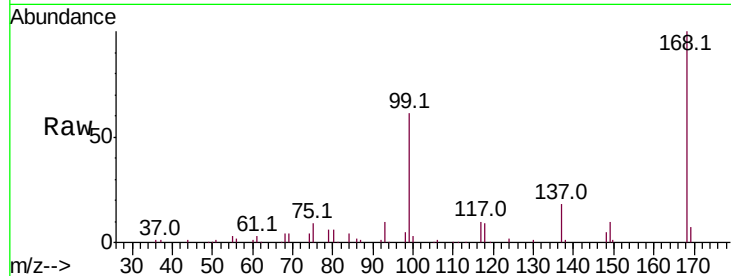
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 81652

Ion Ratio Lower Upper

168 100

99 60.6 46.6 69.8



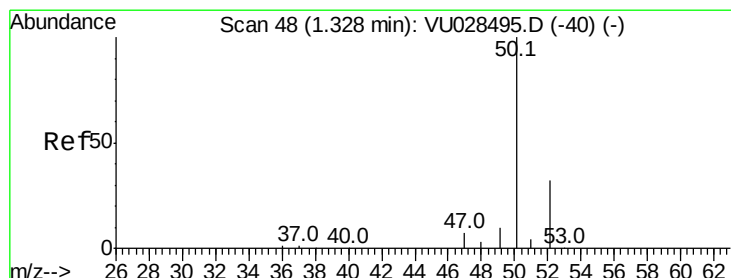
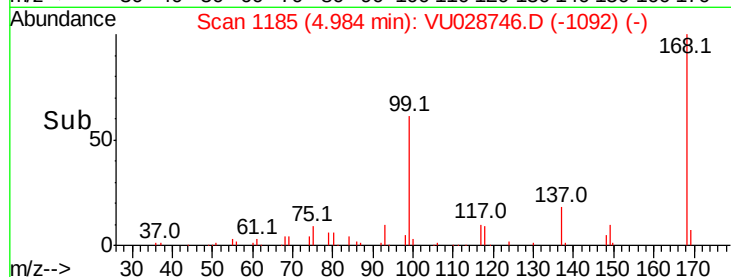
Abundance Ion 167.90 (167.60 to 168.60): VU028495.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU028495.D (-1168) (-)

4.98

4.90 4.95 5.00 5.05

Time-->



#3

Chloromethane

Concen: 0.331 ug/l

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU028746.D

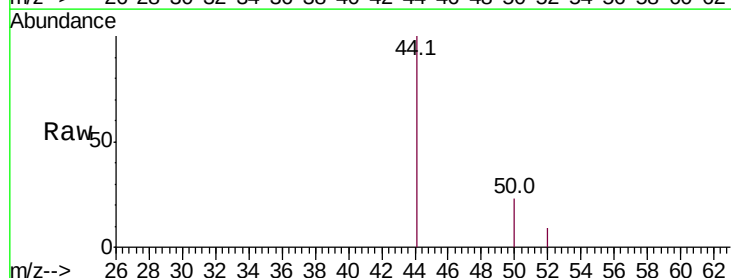
Acq: 18 Dec 2018 02:22

Tgt Ion: 50 Resp: 667

Ion Ratio Lower Upper

50 100

52 40.1 25.5 38.3#



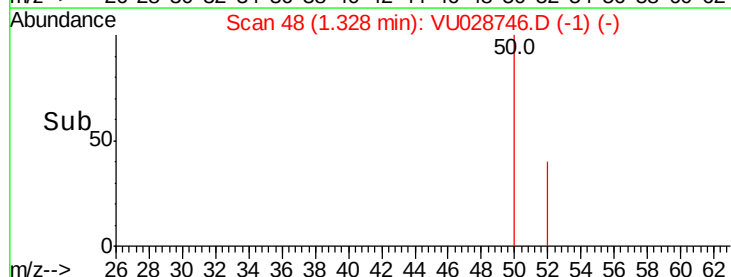
Abundance Ion 49.90 (49.60 to 50.60): VU028495.D (-40) (-)

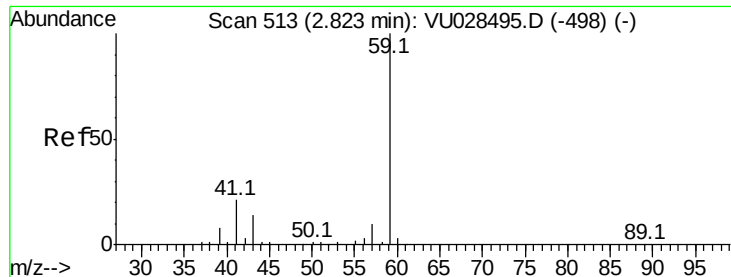
Ion 51.90 (51.60 to 52.60): VU028495.D (-40) (-)

1.33

1.30 1.32 1.34 1.36

Time-->



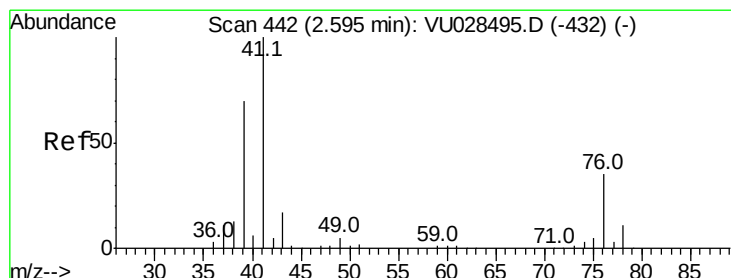
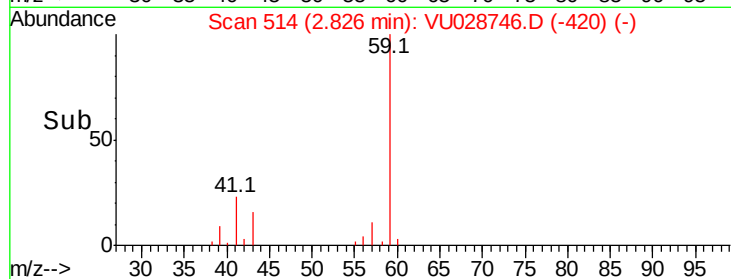
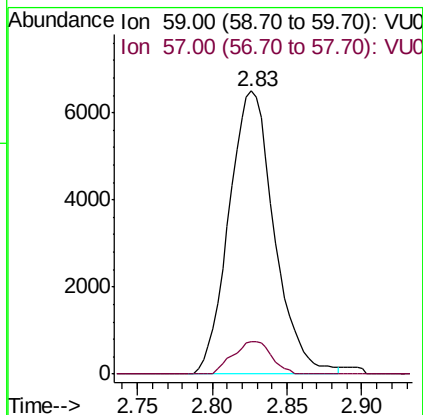
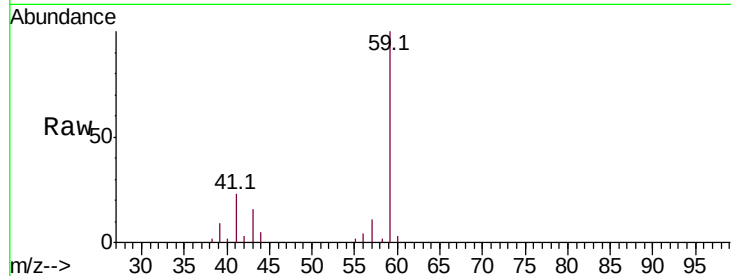


#11

Tert butyl alcohol
 Concen: 49.417 ug/l
 RT: 2.83 min Scan# 514
 Delta R.T. 0.00 min
 Lab File: VU028746.D
 Acq: 18 Dec 2018 02:22

Instrument :
 MSVOA_U
 ClientSampleId :

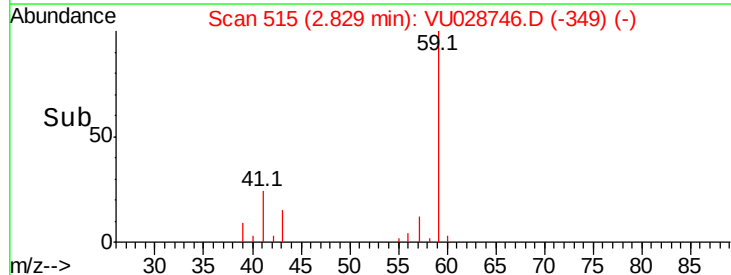
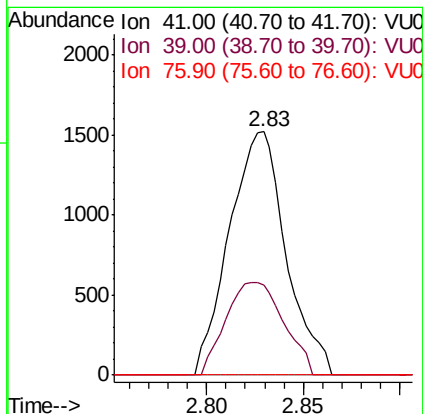
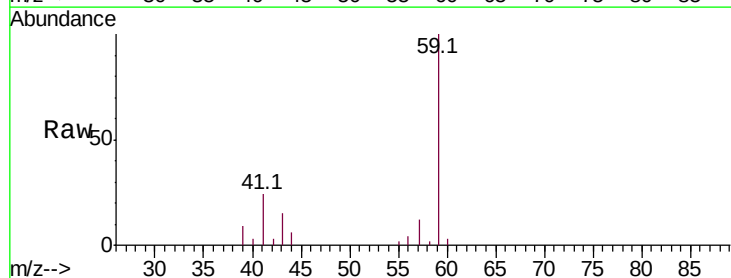
Tot Ion: 59 Resp: 13719
 Ion Ratio Lower Upper
 59 100
 57 9.8 8.0 12.0

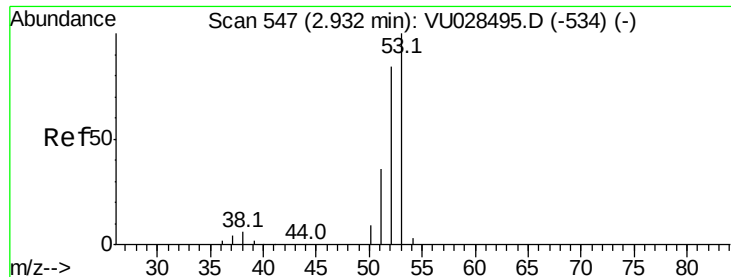


#14

Allyl chloride
 Concen: 1.444 ug/l
 RT: 2.83 min Scan# 515
 Delta R.T. 0.23 min
 Lab File: VU028746.D
 Acq: 18 Dec 2018 02:22

Tgt Ion: 41 Resp: 3105
 Ion Ratio Lower Upper
 41 100
 39 38.9 50.8 76.2#
 76 0.0 24.8 37.2#





#15

Acrylonitrile

Concen: 1.022 ug/l

RT: 3.00 min Scan# 568

Delta R.T. 0.07 min

Lab File: VU028746.D

Acq: 18 Dec 2018 02:22

Instrument :

MSVOA_U

ClientSampleId :

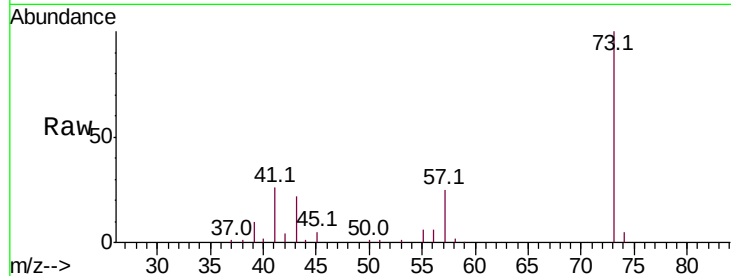
Tot Ion: 53 Resp: 788

Ion Ratio Lower Upper

53 100

52 0.0 66.1 99.1#

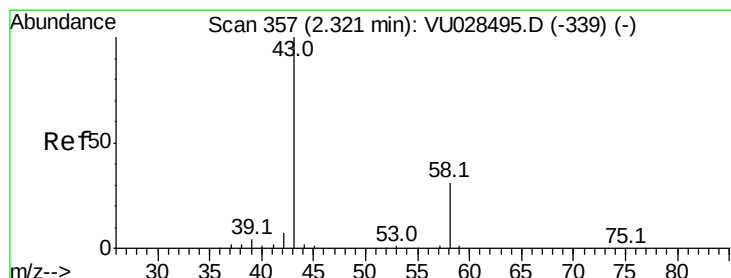
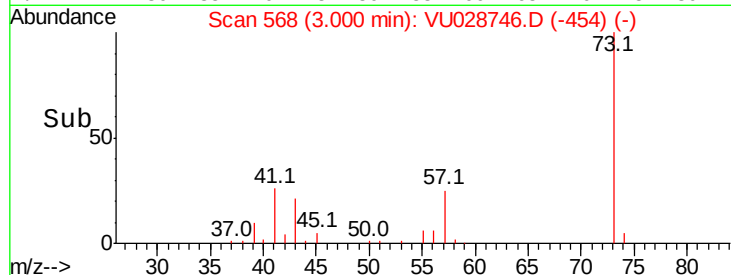
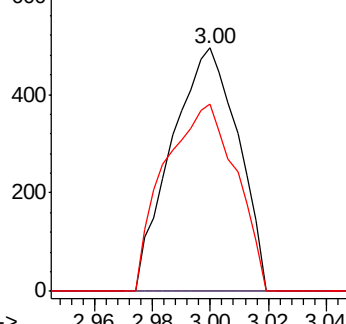
51 82.9 28.1 42.1#



Abundance Ion 53.00 (52.70 to 53.70): VU0

Ion 52.00 (51.70 to 52.70): VU0

Ion 51.00 (50.70 to 51.70): VU0



#16

Acetone

Concen: 0.541 ug/l

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU028746.D

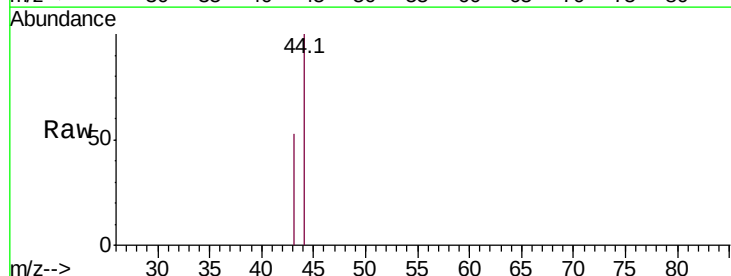
Acq: 18 Dec 2018 02:22

Tgt Ion: 43 Resp: 440

Ion Ratio Lower Upper

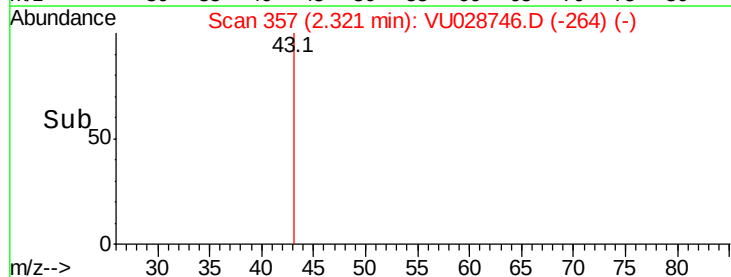
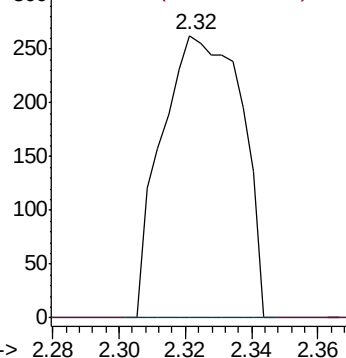
43 100

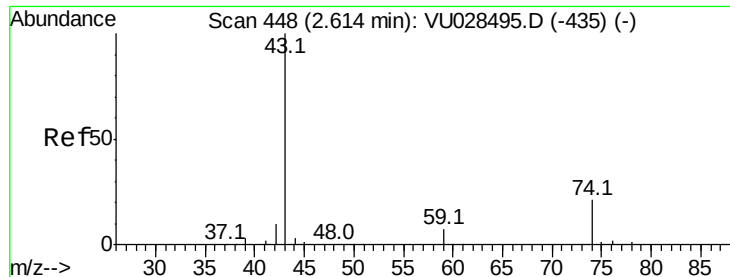
58 0.0 24.6 37.0#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

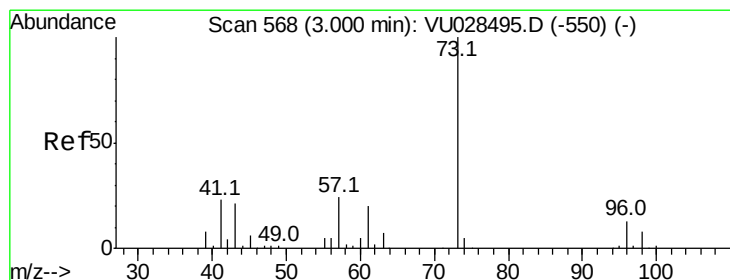
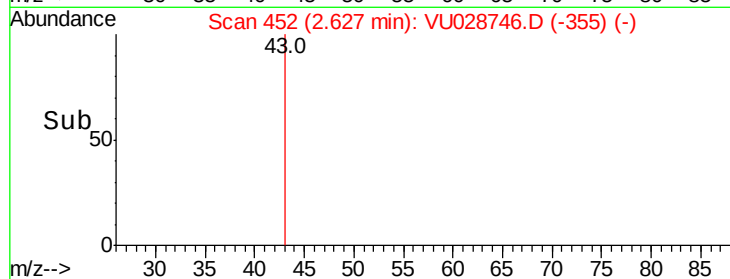
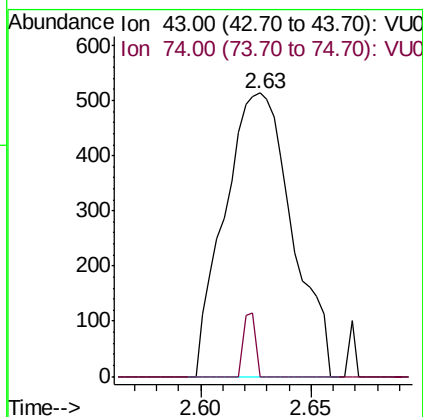
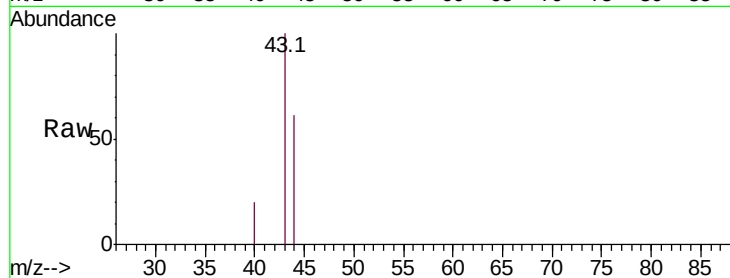




#18
Methvl Acetate
Concen: 0.516 ug/l
RT: 2.63 min Scan# 452
Delta R.T. 0.01 min
Lab File: VU028746.D
Acq: 18 Dec 2018 02:22

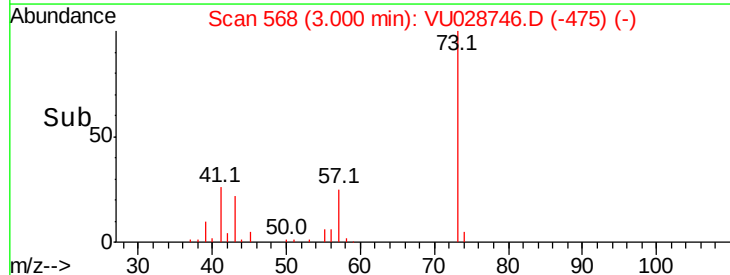
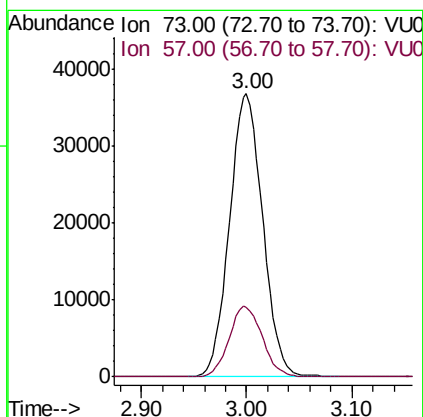
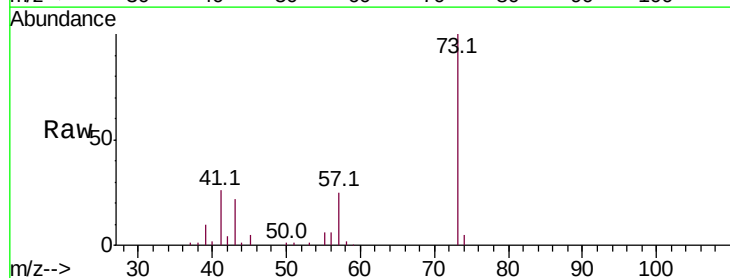
Instrument :
MSVOA_U
ClientSampleId :

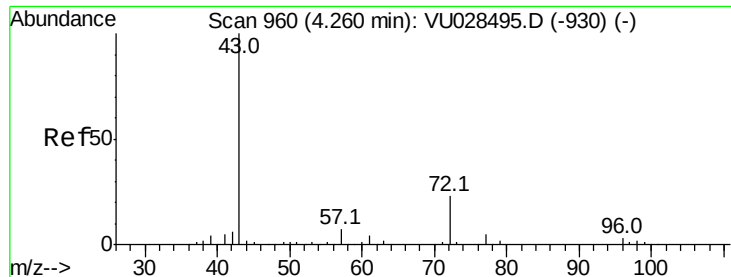
Tot Ion: 43 Resp: 1087
Ion Ratio Lower Upper
43 100
74 4.0 16.4 24.6#



#19
Methyl tert-butyl Ether
Concen: 23.277 ug/l
RT: 3.00 min Scan# 568
Delta R.T. -0.00 min
Lab File: VU028746.D
Acq: 18 Dec 2018 02:22

Tgt Ion: 73 Resp: 80220
Ion Ratio Lower Upper
73 100
57 24.7 19.4 29.2





#25

2-Butanone

Concen: 0.316 ug/l

RT: 4.22 min Scan# 946

Delta R.T. -0.05 min

Lab File: VU028746.D

Acq: 18 Dec 2018 02:22

Instrument :

MSVOA_U

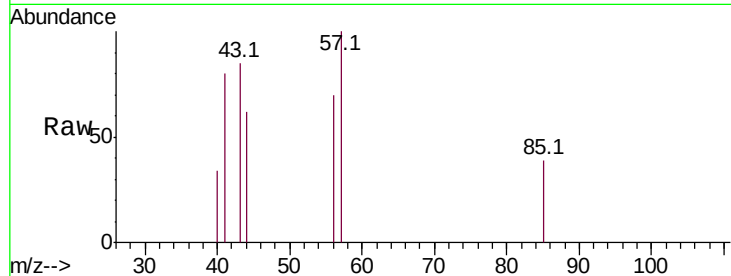
ClientSampleId :

Tot Ion: 43 Resp: 351

Ion Ratio Lower Upper

43 100

72 0.0 18.6 28.0#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

4.22

250

200

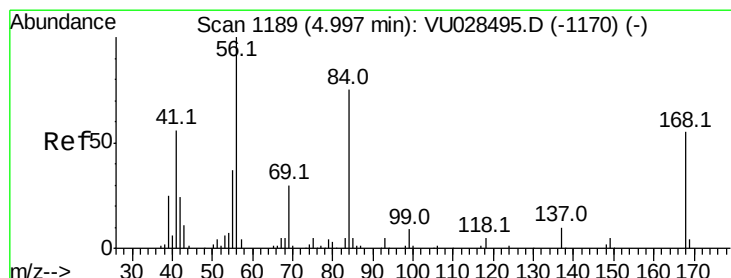
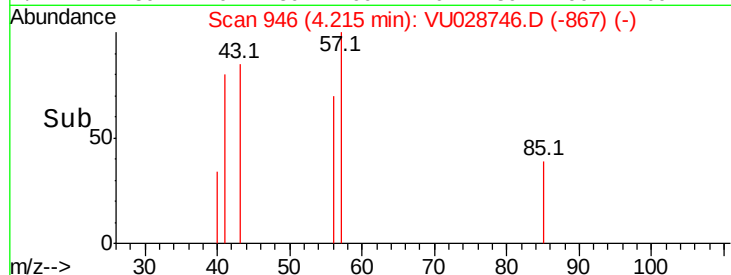
150

100

50

0

Time--> 4.18 4.20 4.22



#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1184

Delta R.T. -0.02 min

Lab File: VU028746.D

Acq: 18 Dec 2018 02:22

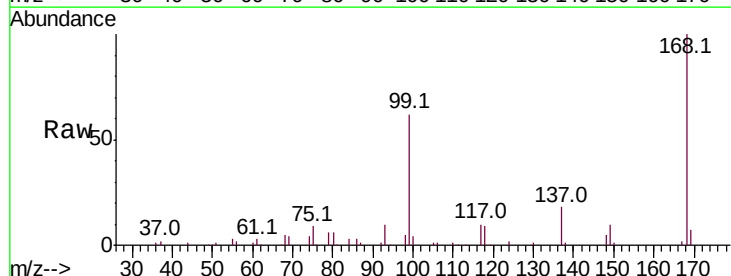
Tgt Ion: 56 Resp: 1764

Ion Ratio Lower Upper

56 100

69 166.7 24.0 36.0#

84 155.4 59.7 89.5#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0

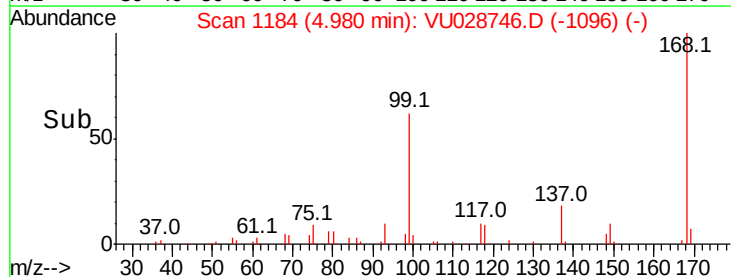
1500

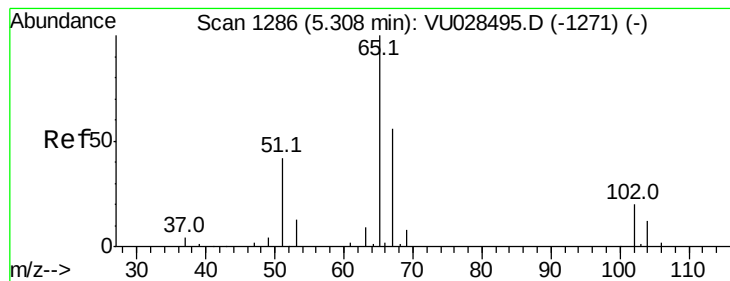
1000

500

0

Time--> 4.95 5.00





#33

1,2-Dichloroethane-d4

Concen: 53.520 ug/l

RT: 5.31 min Scan# 1286

Delta R.T. -0.00 min

Lab File: VU028746.D

Acq: 18 Dec 2018 02:22

Instrument :

MSVOA_U

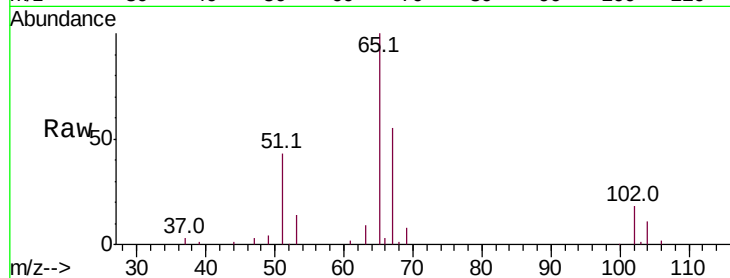
ClientSampleId :

Tot Ion: 65 Resp: 66689

Ion Ratio Lower Upper

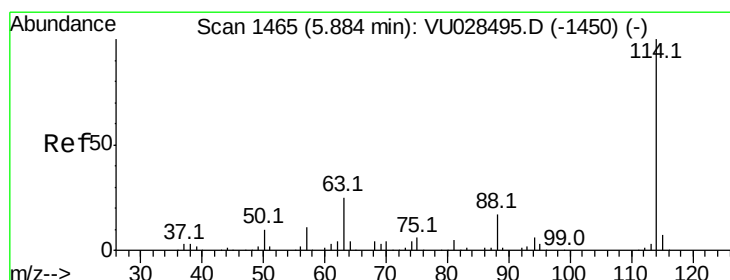
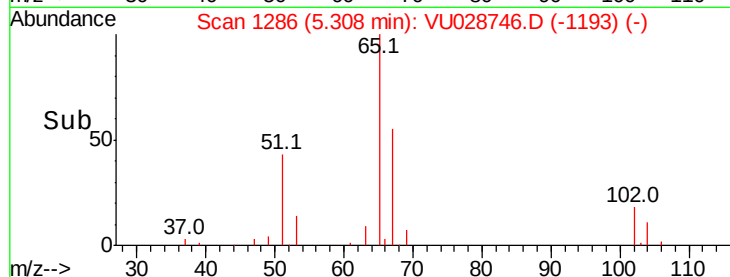
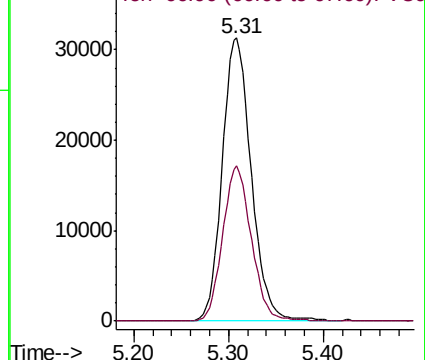
65 100

67 54.1 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.89 min Scan# 1466

Delta R.T. 0.00 min

Lab File: VU028746.D

Acq: 18 Dec 2018 02:22

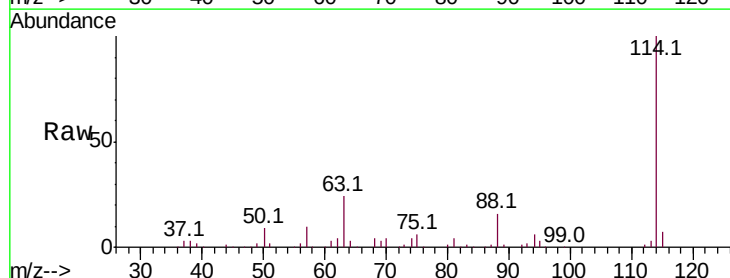
Tgt Ion:114 Resp: 148466

Ion Ratio Lower Upper

114 100

63 24.1 0.0 49.2

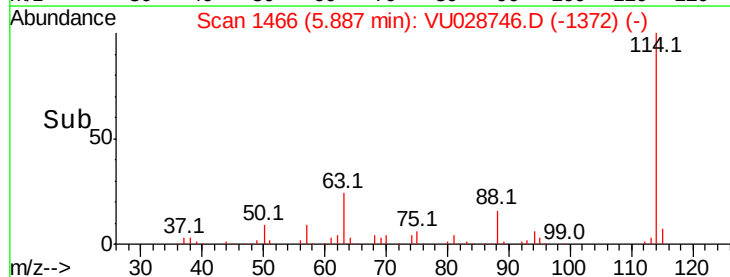
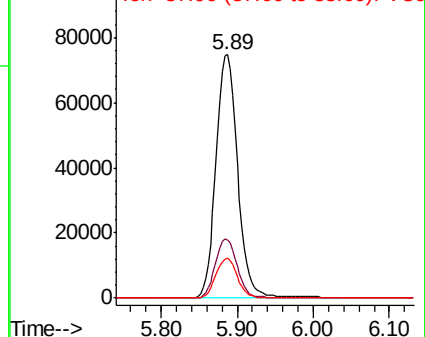
88 16.3 0.0 33.4

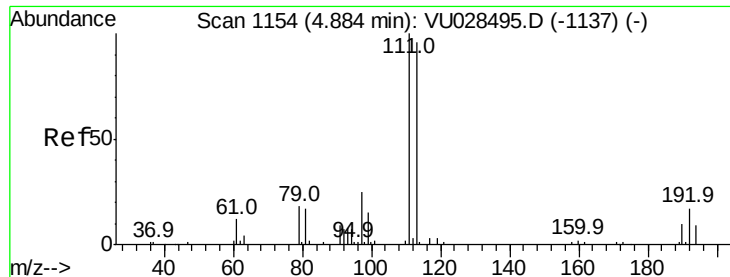


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0

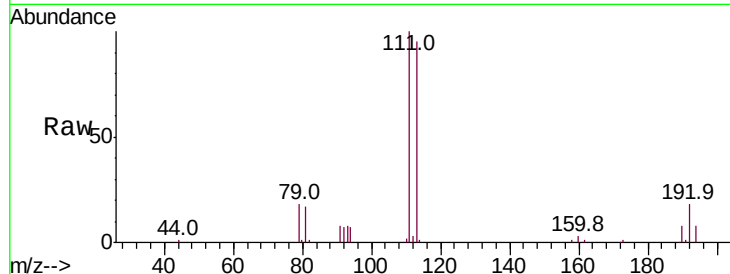




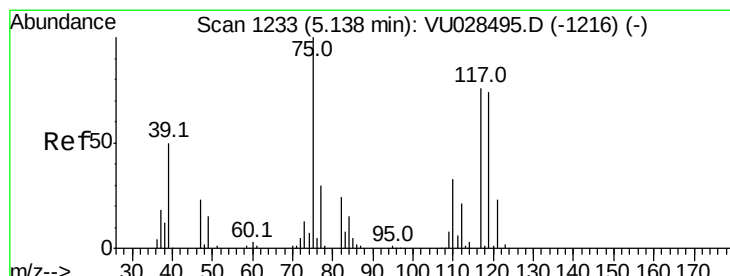
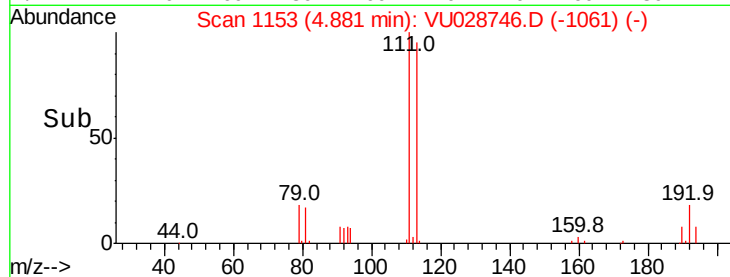
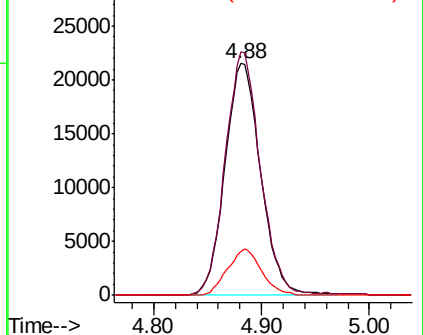
#35
 Dibromofluoromethane
 Concen: 53.100 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. -0.00 min
 Lab File: VU028746.D
 Acq: 18 Dec 2018 02:22

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:113 Resp: 49612
 Ion Ratio Lower Upper
 113 100
 111 103.3 83.4 125.0
 192 19.0 14.8 22.2

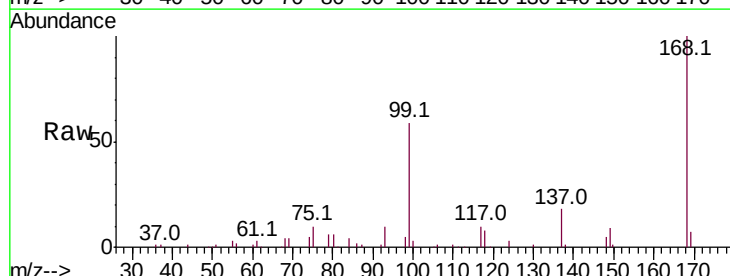


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

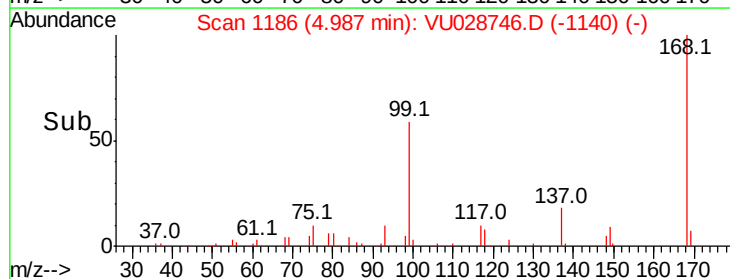
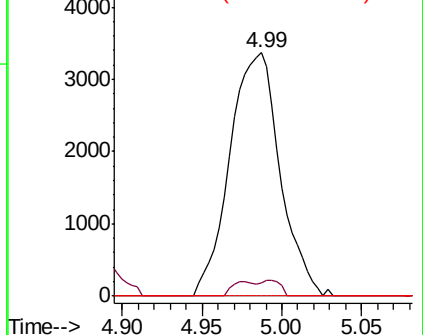


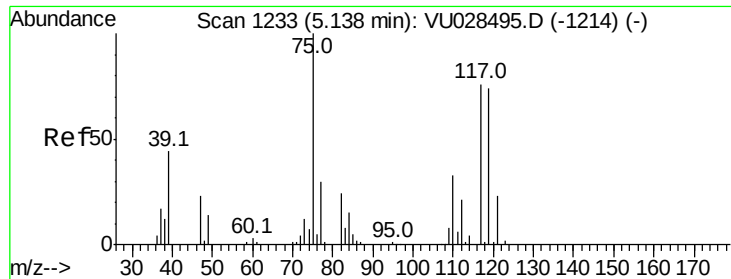
#36
 1,1-Dichloropropene
 Concen: 4.452 ug/l
 RT: 4.99 min Scan# 1186
 Delta R.T. -0.15 min
 Lab File: VU028746.D
 Acq: 18 Dec 2018 02:22

Tgt Ion: 75 Resp: 7233
 Ion Ratio Lower Upper
 75 100
 110 2.6 16.1 48.2#
 77 0.0 24.5 36.7#



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: 6.098 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU028746.D

Acq: 18 Dec 2018 02:22

Instrument :

MSVOA_U

ClientSampled :

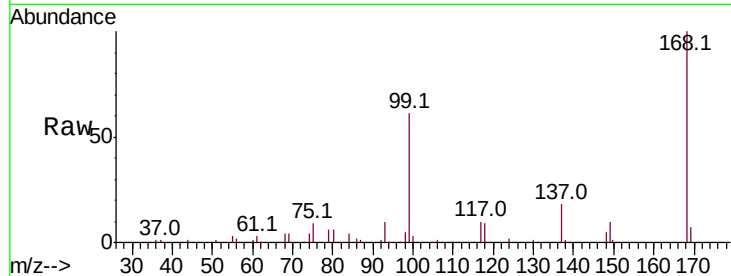
Tot Ion:117 Resp: 7985

Ion Ratio Lower Upper

117 100

119 3.9 77.6 116.4#

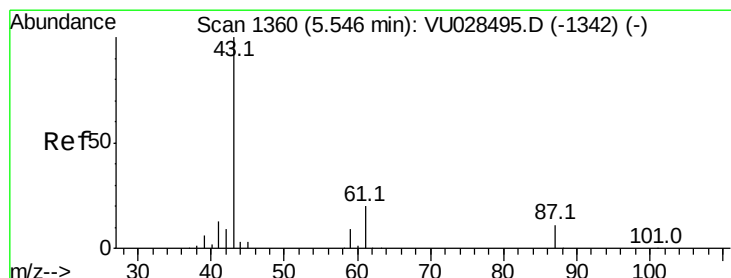
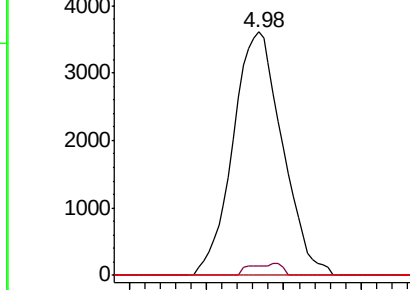
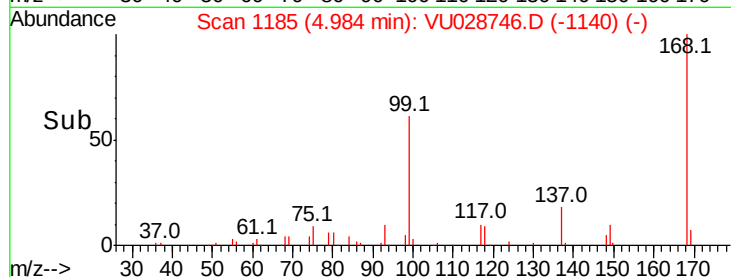
121 0.0 24.6 36.8#



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: 5.304 ug/l

RT: 5.54 min Scan# 1357

Delta R.T. -0.01 min

Lab File: VU028746.D

Acq: 18 Dec 2018 02:22

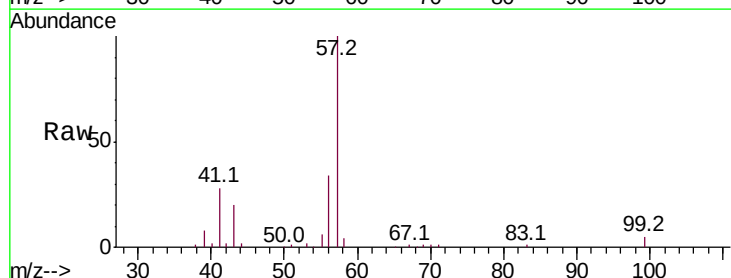
Tgt Ion: 43 Resp: 17620

Ion Ratio Lower Upper

43 100

61 0.0 15.5 23.3#

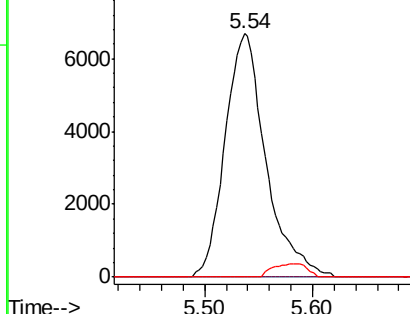
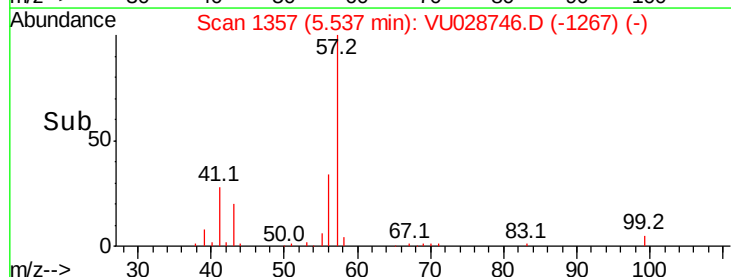
87 0.0 8.7 13.1#

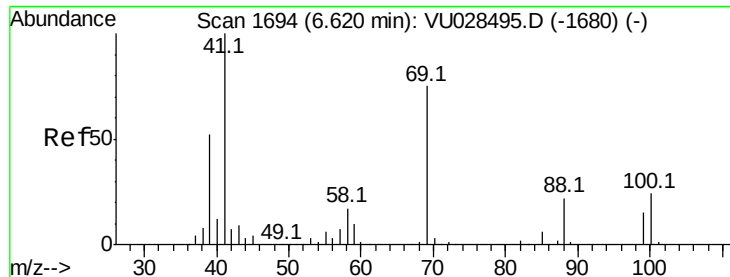


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

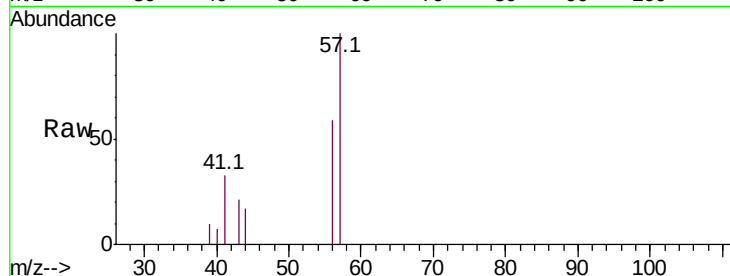




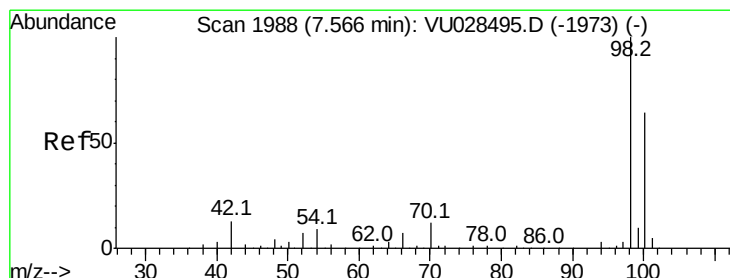
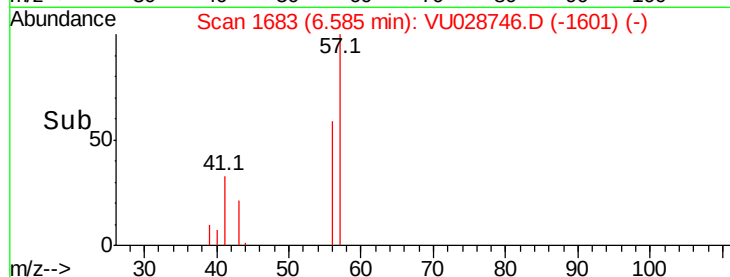
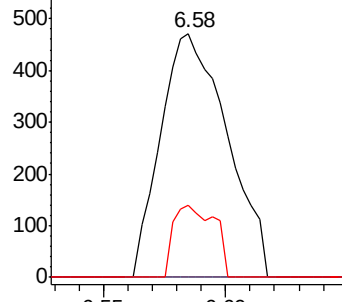
#48
Methvl methacrylate
Concen: 0.541 ug/l
RT: 6.58 min Scan# 1683
Delta R.T. -0.04 min
Lab File: VU028746.D
Acq: 18 Dec 2018 02:22

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 41 Resp: 894
Ion Ratio Lower Upper
41 100
69 0.0 60.4 90.6#
39 18.2 41.1 61.7#

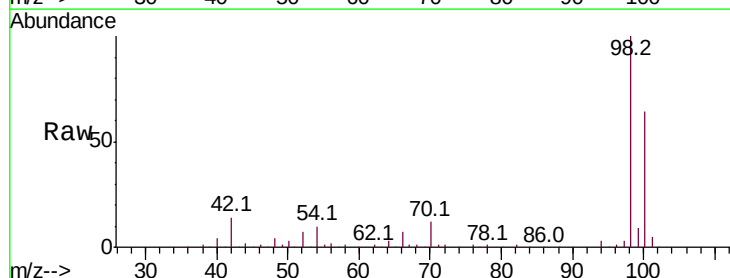


Abundance Ion 41.00 (40.70 to 41.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 39.00 (38.70 to 39.70): VU0

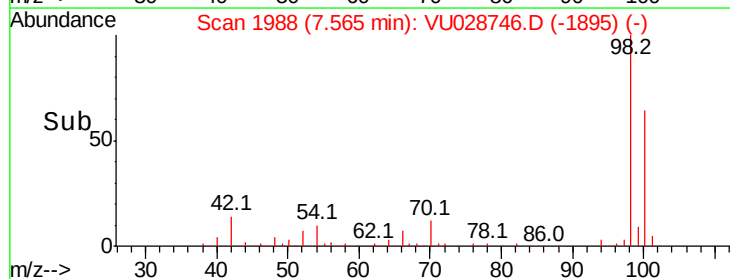
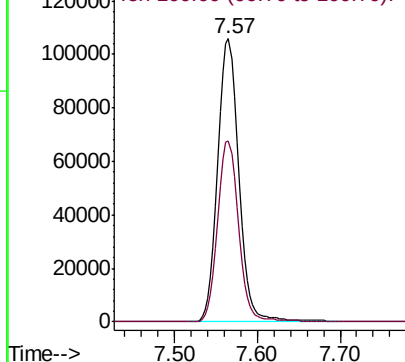


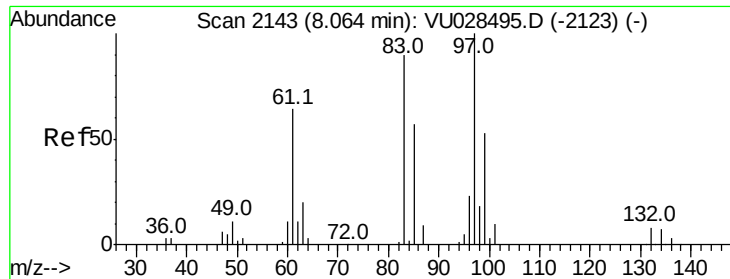
#50
Toluene-d8
Concen: 50.822 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VU028746.D
Acq: 18 Dec 2018 02:22

Tgt Ion: 98 Resp: 187835
Ion Ratio Lower Upper
98 100
100 63.1 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VU0
Ion 100.00 (99.70 to 100.70): VU0





#55

1,1,2-Trichloroethane

Concen: 0.235 ug/l

RT: 7.92 min Scan# 2098

Delta R.T. -0.14 min

Lab File: VU028746.D

Acq: 18 Dec 2018 02:22

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 97 Resp: 262

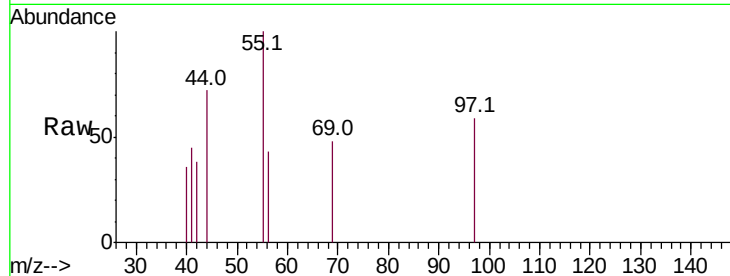
Ion Ratio Lower Upper

97 100

83 0.0 72.4 108.6#

85 0.0 46.0 69.0#

99 0.0 47.4 71.2#



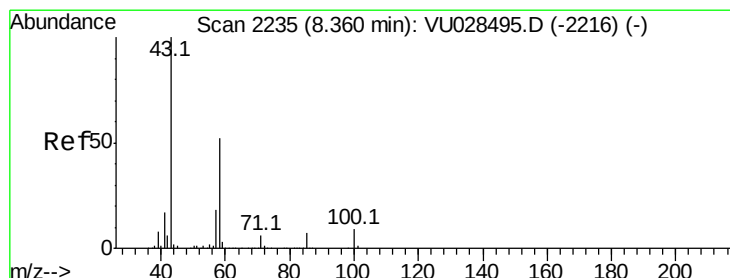
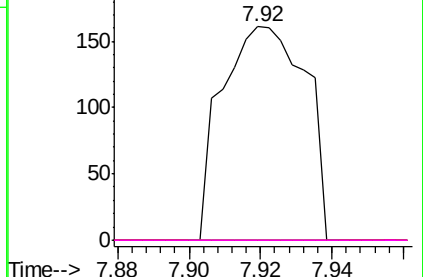
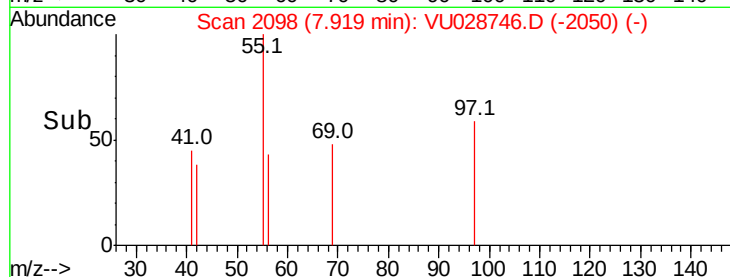
Abundance Ion 96.90 (96.60 to 97.60): VU028495.D (-2123) (-)

Ion 82.90 (82.60 to 83.60): VU028495.D (-2123) (-)

Ion 84.90 (84.60 to 85.60): VU028495.D (-2123) (-)

Ion 98.90 (98.60 to 99.60): VU028495.D (-2123) (-)

Time-->



#59

2-Hexanone

Concen: 0.664 ug/l

RT: 8.16 min Scan# 2174

Delta R.T. -0.20 min

Lab File: VU028746.D

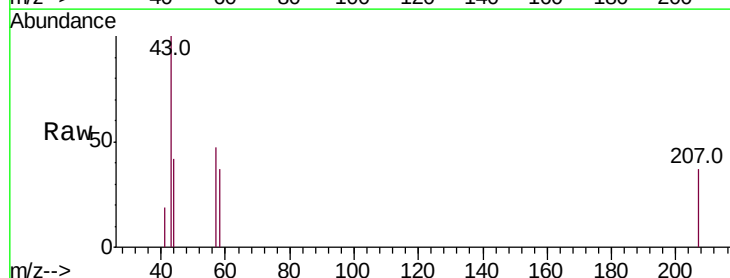
Acq: 18 Dec 2018 02:22

Tgt Ion: 43 Resp: 1102

Ion Ratio Lower Upper

43 100

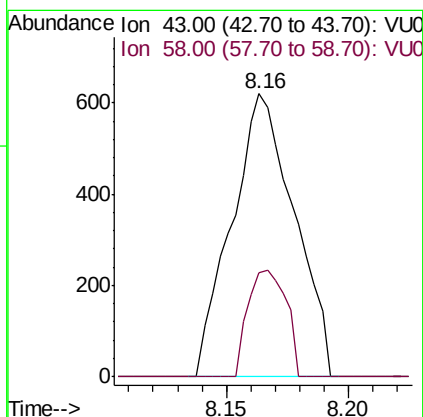
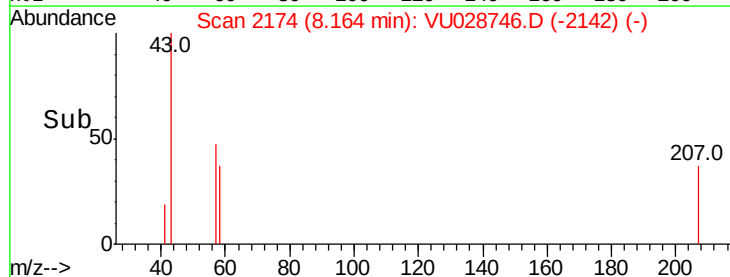
58 22.9 25.9 77.6#

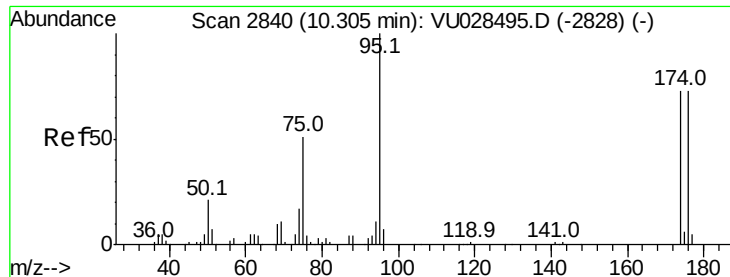


Abundance Ion 43.00 (42.70 to 43.70): VU028495.D (-2216) (-)

Ion 58.00 (57.70 to 58.70): VU028495.D (-2216) (-)

Time-->





#62

4-Bromofluorobenzene

Concen: 43.580 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.00 min

Lab File: VU028746.D

Acq: 18 Dec 2018 02:22

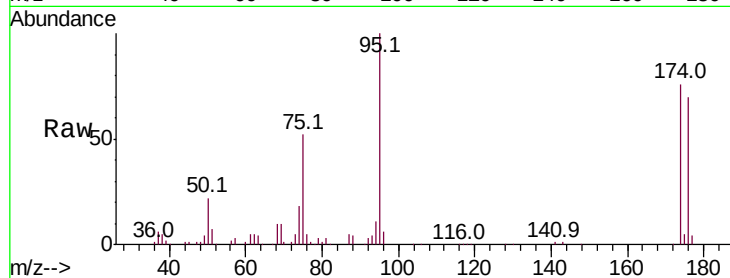
Instrument :

MSVOA_U

ClientSampled :

Tot Ion: 95 Resp: 60202

Ion	Ratio	Lower	Upper
95	100		
174	76.6	0.0	150.4
176	72.2	0.0	145.2

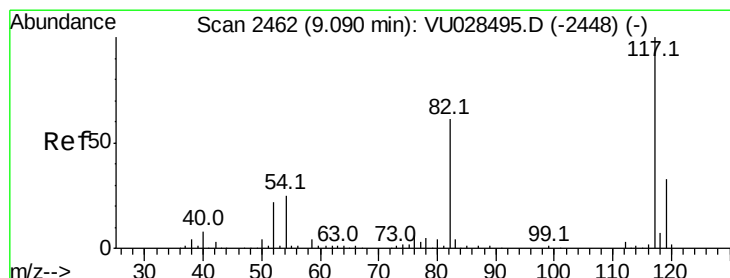
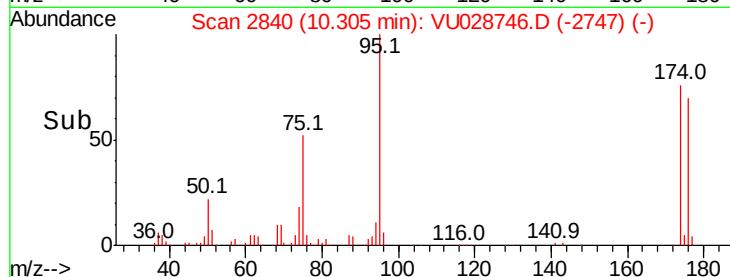
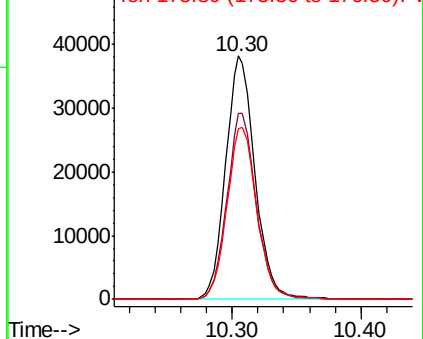


Abundance

Ion 94.90 (94.60 to 95.60): VU028495.D (-2828) (-)

Ion 173.80 (173.50 to 174.50): VU028495.D (-2828) (-)

Ion 175.80 (175.50 to 176.50): VU028495.D (-2828) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2462

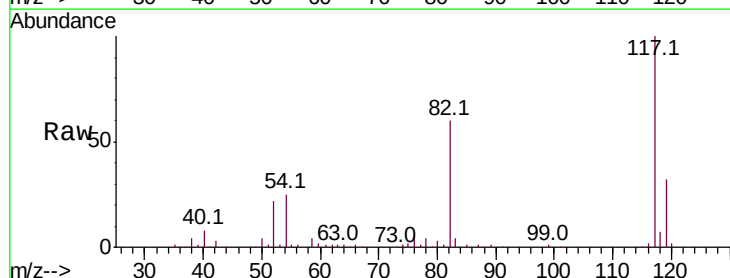
Delta R.T. -0.00 min

Lab File: VU028746.D

Acq: 18 Dec 2018 02:22

Tgt Ion: 117 Resp: 128523

Ion	Ratio	Lower	Upper
117	100		
82	60.2	48.9	73.3
119	31.5	26.2	39.4

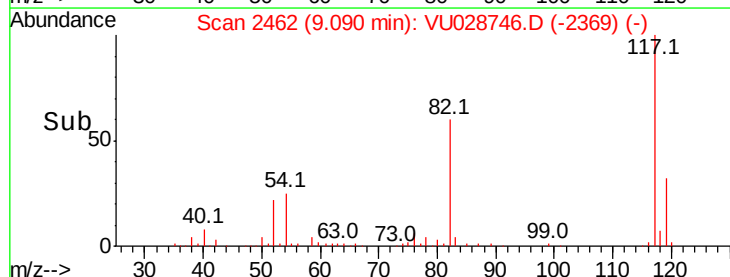
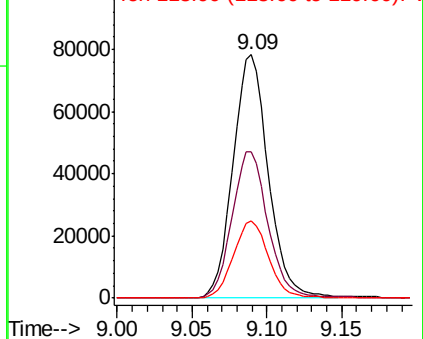


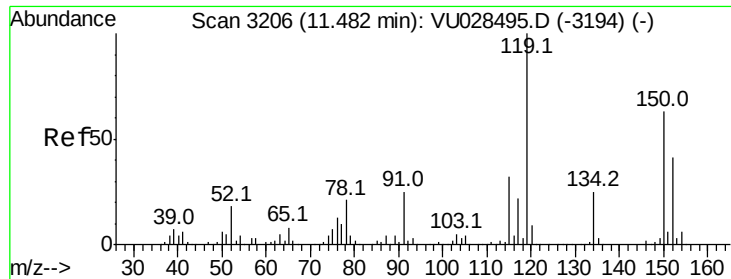
Abundance

Ion 116.90 (116.60 to 117.60): VU028495.D (-2448) (-)

Ion 82.00 (81.70 to 82.70): VU028495.D (-2448) (-)

Ion 118.90 (118.60 to 119.60): VU028495.D (-2448) (-)

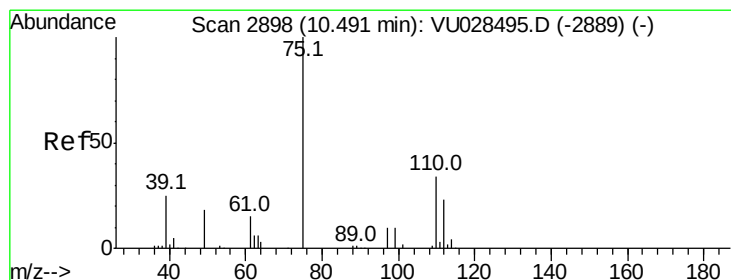
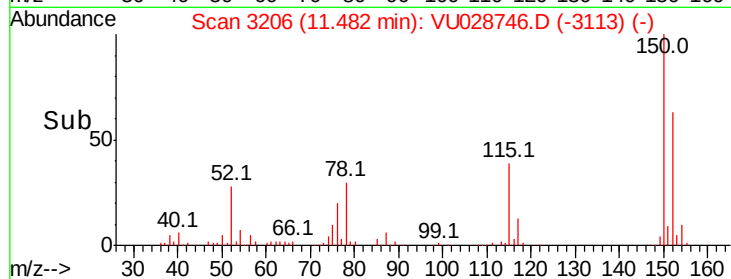
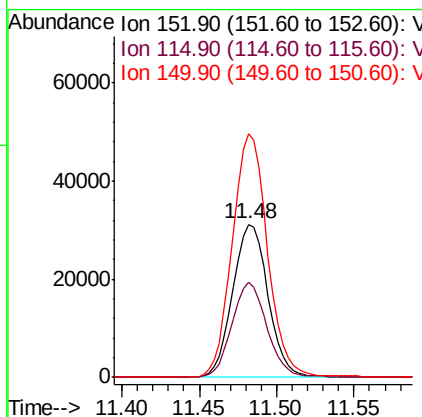
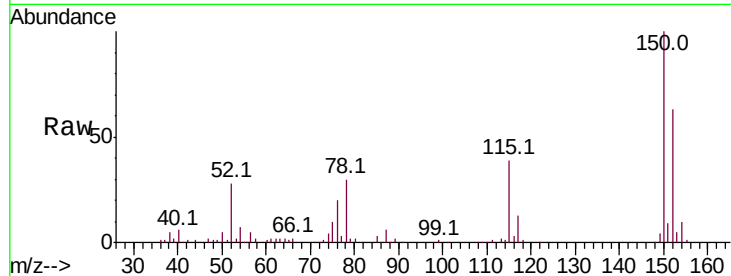




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.48 min Scan# 3206
 Delta R.T. -0.00 min
 Lab File: VU028746.D
 Acq: 18 Dec 2018 02:22

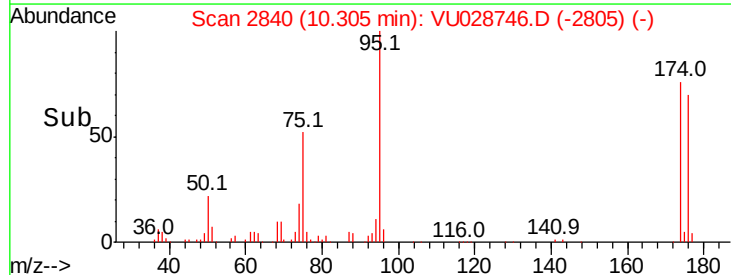
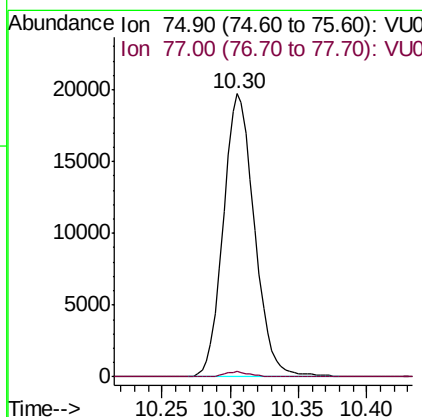
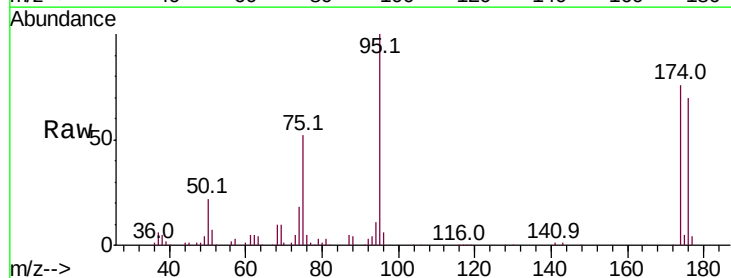
Instrument :
 MSVOA_U
 ClientSampleId :

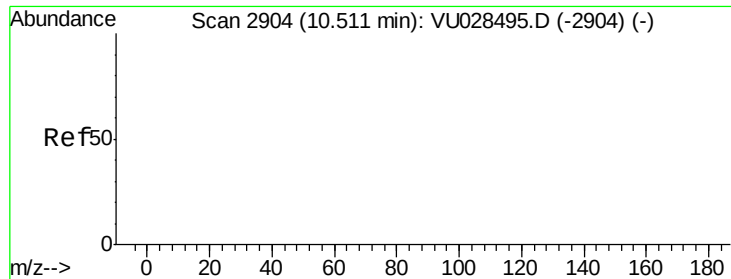
Tot Ion:152 Resp: 49628
 Ion Ratio Lower Upper
 152 100
 115 61.1 42.7 128.1
 150 157.6 0.0 346.0



#76
 1,2,3-Trichloropropane
 Concen: 24.720 ug/l
 RT: 10.30 min Scan# 2840
 Delta R.T. -0.19 min
 Lab File: VU028746.D
 Acq: 18 Dec 2018 02:22

Tgt Ion: 75 Resp: 31327
 Ion Ratio Lower Upper
 75 100
 77 1.4 20.8 62.4#





#81

trans-1,4-Dichloro-2-butene

Concen: 60.666 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU028746.D

Acq: 18 Dec 2018 02:22

Instrument :

MSVOA_U

ClientSampleId :

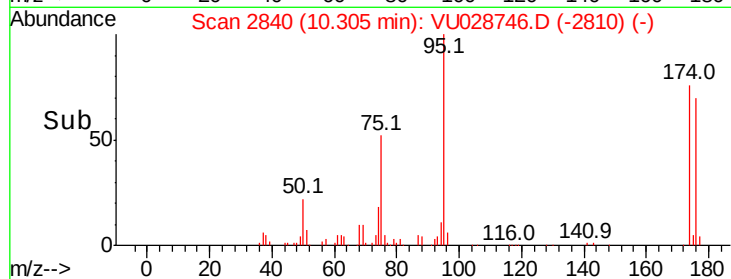
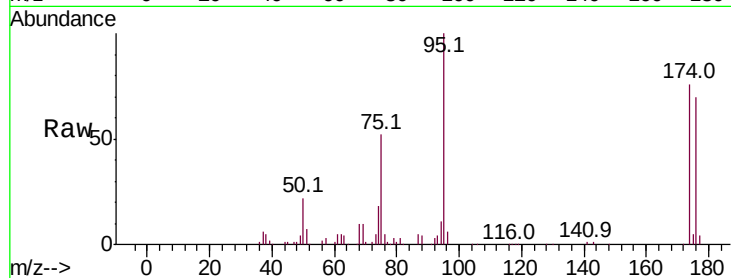
Tot Ion: 75 Resp: 31327

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): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

