

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU121718\
 Data File : VU028757.D
 Acq On : 18 Dec 2018 06:48
 Operator : MD/SY
 Sample : J6438-08 10X
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 18 07:40:49 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	84058	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	147054	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	130460	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	53328	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	66561	51.89	ug/l	0.00
Spiked Amount			Recovery	=	103.78%	
35) Dibromofluoromethane	4.88	113	48930	52.87	ug/l	0.00
Spiked Amount			Recovery	=	105.74%	
50) Toluene-d8	7.56	98	188205	51.41	ug/l	0.00
Spiked Amount			Recovery	=	102.82%	
62) 4-Bromofluorobenzene	10.31	95	62801	45.90	ug/l	0.00
Spiked Amount			Recovery	=	91.80%	

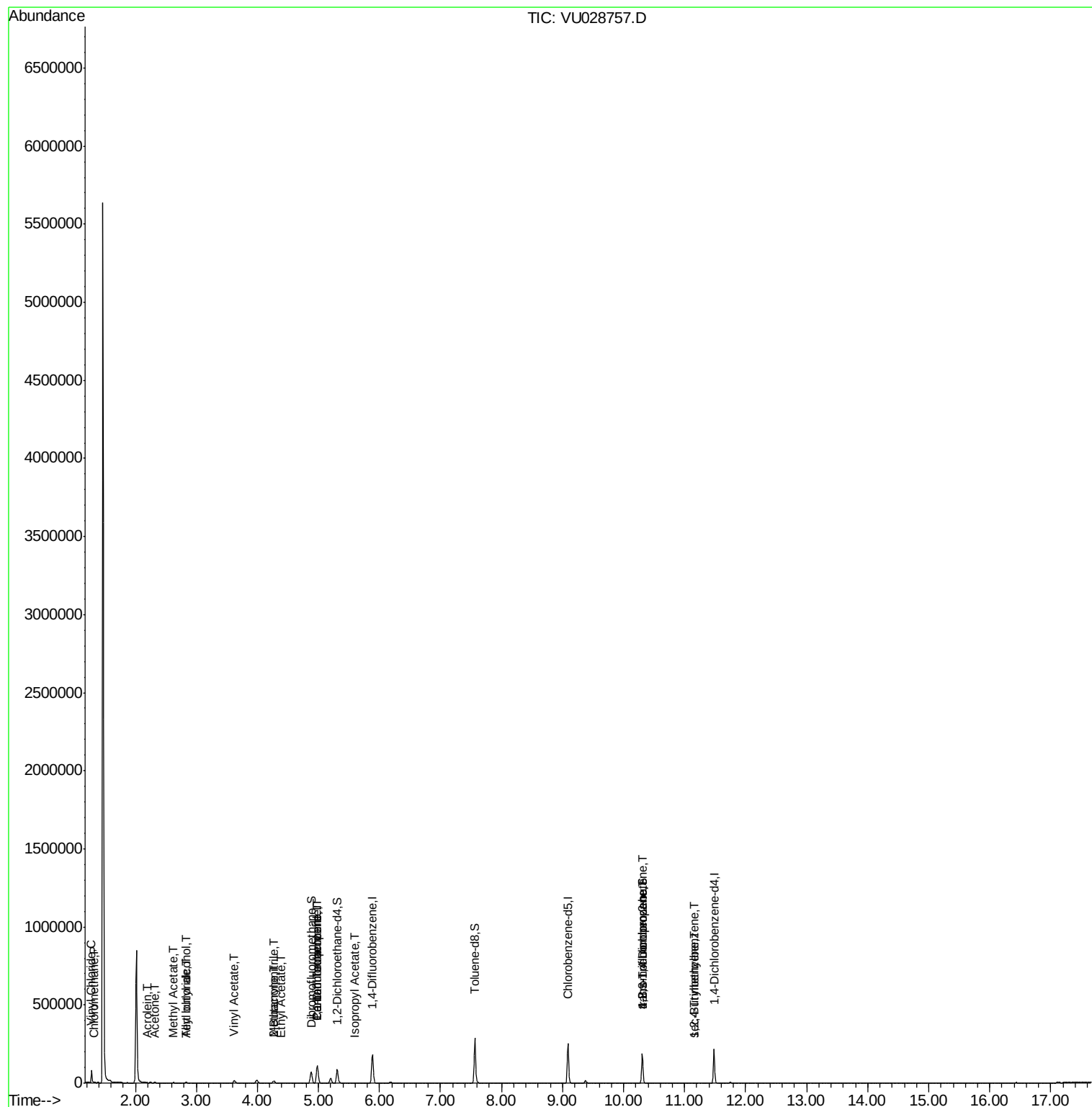
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1525	0.736	ug/l	91
4) Vinyl Chloride	1.28	62	642	0.429	ug/l #	43
11) Tert butyl alcohol	2.83	59	4621	16.169	ug/l #	90
13) Acrolein	2.19	56	254	1.115	ug/l #	80
14) Allyl chloride	2.82	41	1083	0.489	ug/l #	45
16) Acetone	2.32	43	5661	6.763	ug/l	98
18) Methyl Acetate	2.62	43	4887	2.252	ug/l #	88
23) Vinyl Acetate	3.62	43	4452	1.254	ug/l #	76
25) 2-Butanone	4.27	43	22938	20.052	ug/l	97
31) Cyclohexane	4.98	56	1798	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	7389	4.592	ug/l #	49
37) Ethyl Acetate	4.39	43	2698	1.297	ug/l #	78
38) Carbon Tetrachloride	4.98	117	8189	6.314	ug/l #	15
41) Methacrylonitrile	4.28	41	402	0.353	ug/l #	25
43) Isopropyl Acetate	5.59	43	775	0.236	ug/l #	62
76) 1,2,3-Trichloropropane	10.30	75	33154	24.347	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.30	75	33154	59.758	ug/l #	100
84) 1,2,4-Trimethylbenzene	11.15	105	931	0.267	ug/l #	61
85) sec-Butylbenzene	11.15	105	931	0.222	ug/l #	59

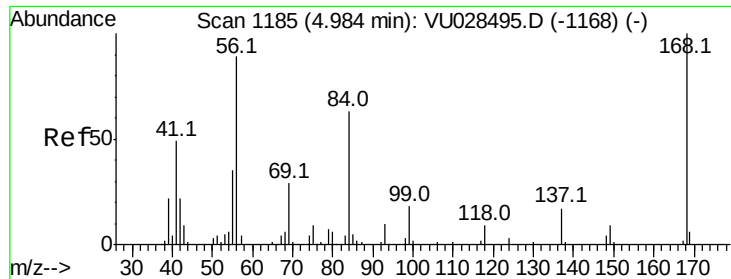
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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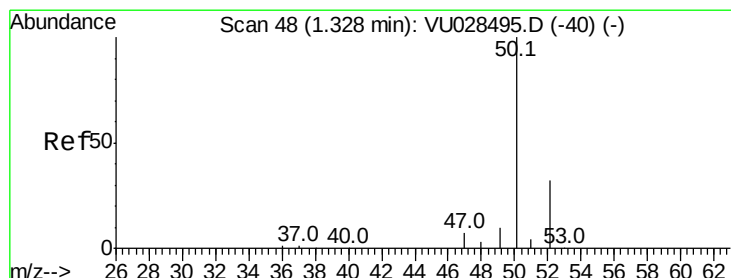
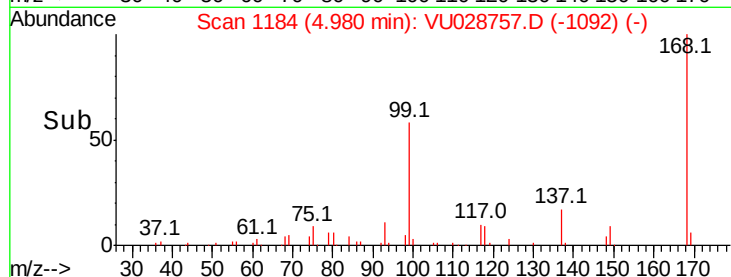
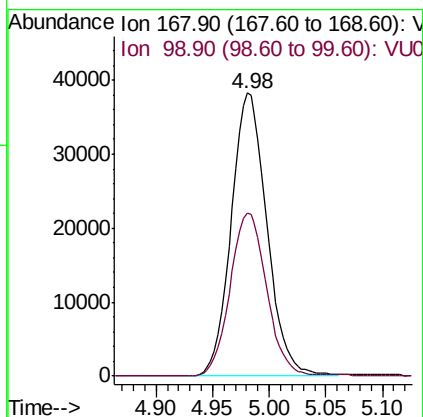
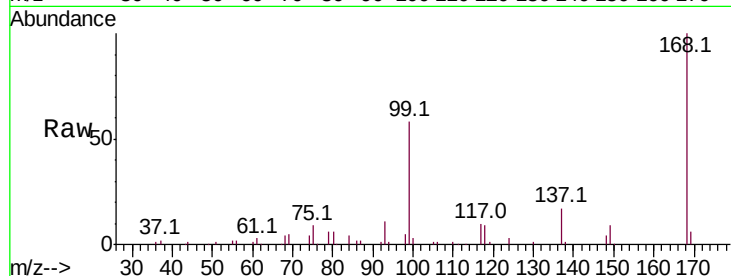




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.98 min Scan# 1184
Delta R.T. -0.00 min
Lab File: VU028757.D
Acq: 18 Dec 2018 06:48

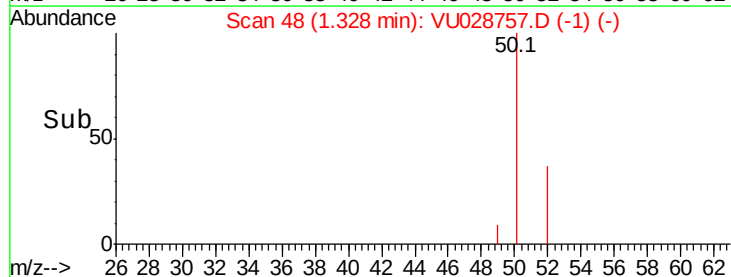
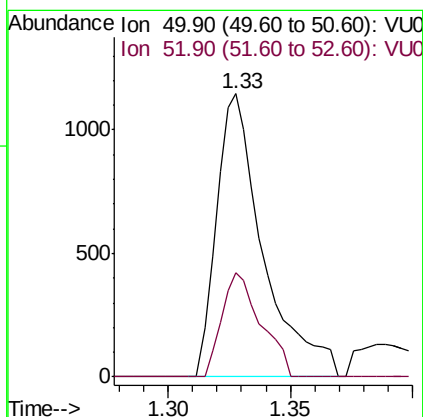
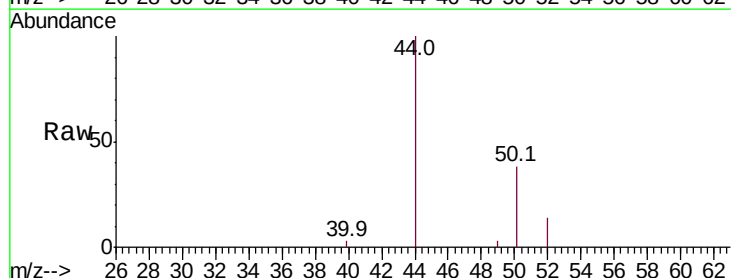
Instrument :
MSVOA_U
ClientSampleId :

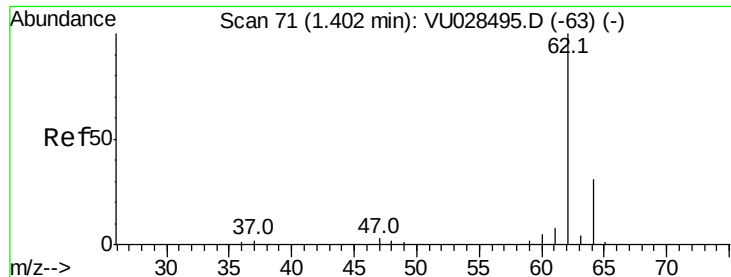
Tot Ion:168 Resp: 84058
Ion Ratio Lower Upper
168 100
99 57.6 46.6 69.8



#3
Chloromethane
Concen: 0.736 ug/l
RT: 1.33 min Scan# 48
Delta R.T. -0.00 min
Lab File: VU028757.D
Acq: 18 Dec 2018 06:48

Tgt Ion: 50 Resp: 1525
Ion Ratio Lower Upper
50 100
52 37.0 25.5 38.3





#4

Vinyl Chloride

Concen: 0.429 ug/l

RT: 1.28 min Scan# 34

Delta R.T. -0.12 min

Lab File: VU028757.D

Acq: 18 Dec 2018 06:48

Instrument :

MSVOA_U

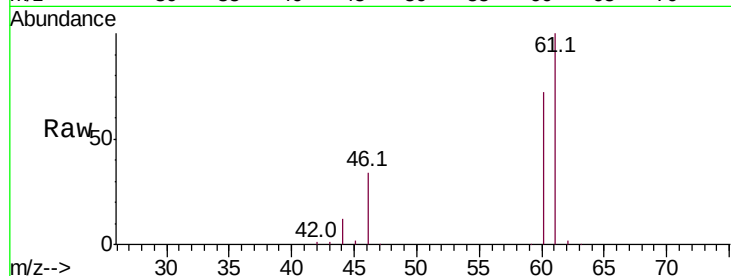
ClientSampled :

Tot Ion: 62 Resp: 642

Ion Ratio Lower Upper

62 100

64 0.0 25.1 37.7#



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0

1.28

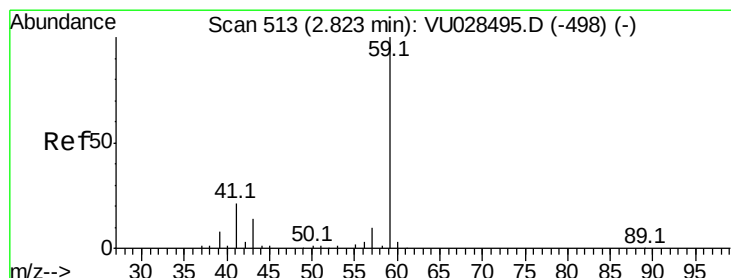
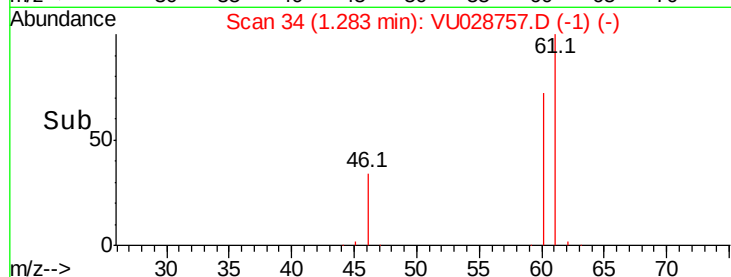
600

400

200

0

Time-->



#11

Tert butyl alcohol

Concen: 16.169 ug/l

RT: 2.83 min Scan# 514

Delta R.T. 0.00 min

Lab File: VU028757.D

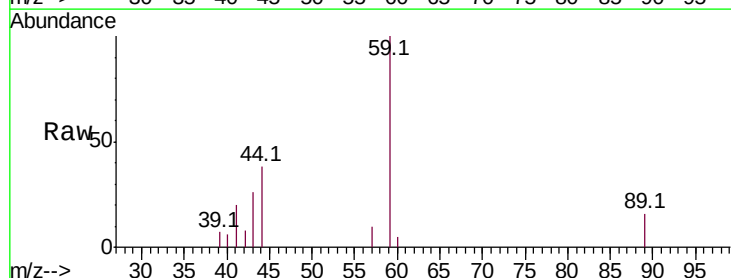
Acq: 18 Dec 2018 06:48

Tgt Ion: 59 Resp: 4621

Ion Ratio Lower Upper

59 100

57 6.3 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

2.83

2500

2000

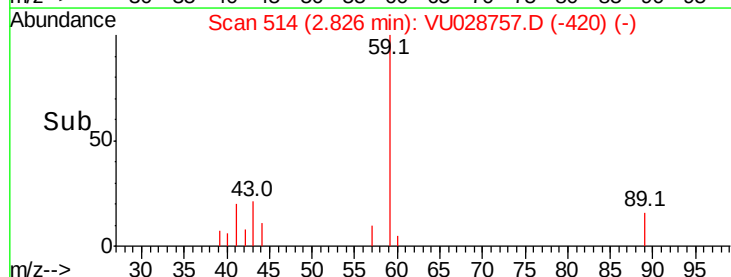
1500

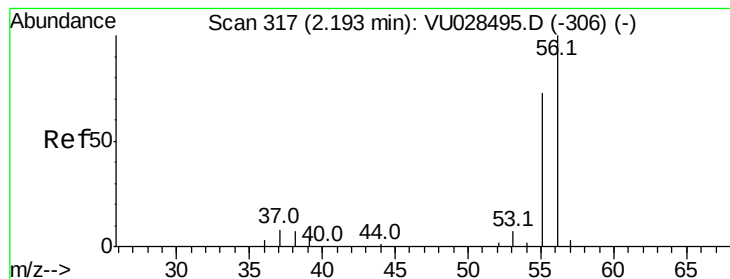
1000

500

0

Time-->





#13

Acrolein

Concen: 1.115 ug/l

RT: 2.19 min Scan# 317

Delta R.T. -0.00 min

Lab File: VU028757.D

Acq: 18 Dec 2018 06:48

Instrument :

MSVOA_U

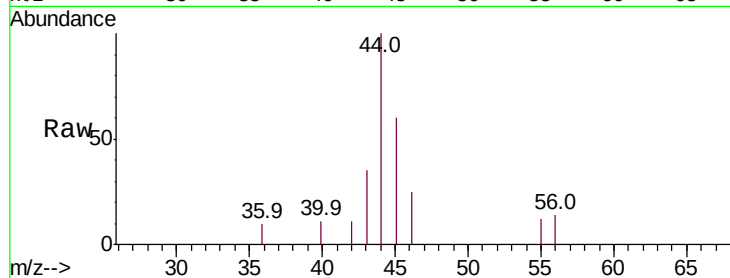
ClientSampleId :

Tot Ion: 56 Resp: 254

Ion Ratio Lower Upper

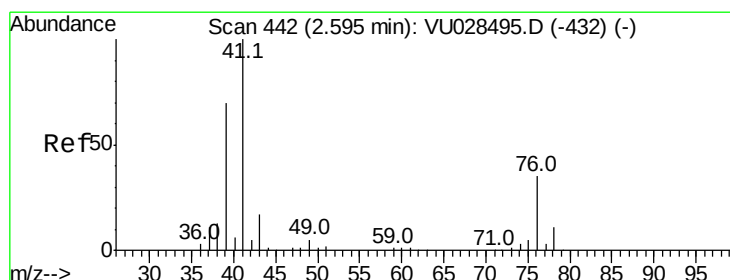
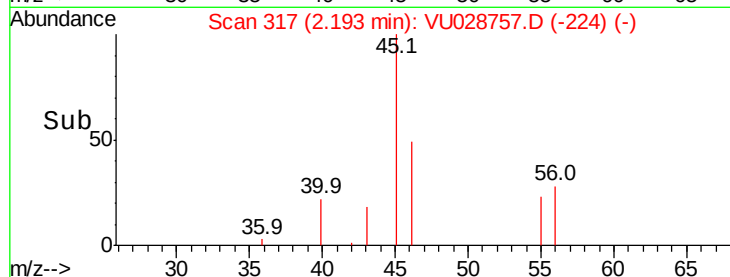
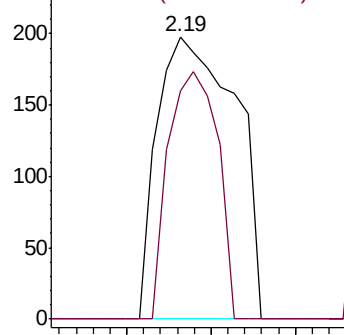
56 100

55 55.5 57.5 86.3#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0



#14

Allyl chloride

Concen: 0.489 ug/l

RT: 2.82 min Scan# 513

Delta R.T. 0.23 min

Lab File: VU028757.D

Acq: 18 Dec 2018 06:48

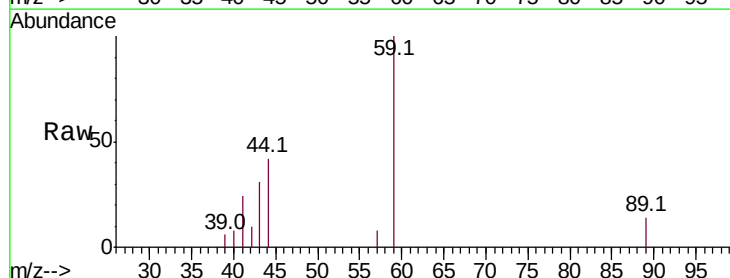
Tgt Ion: 41 Resp: 1083

Ion Ratio Lower Upper

41 100

39 21.3 50.8 76.2#

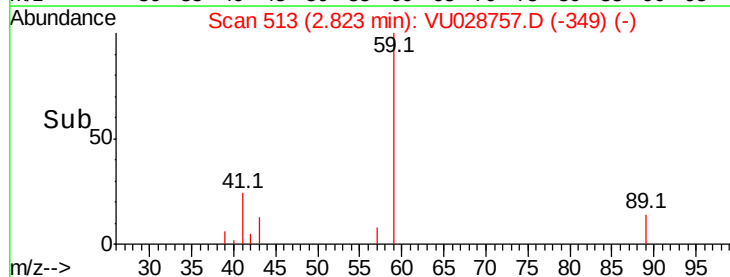
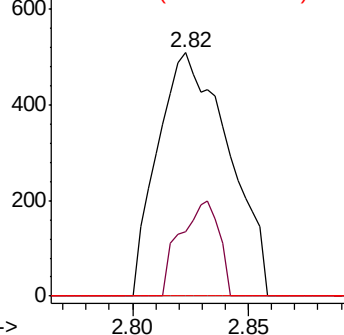
76 0.0 24.8 37.2#

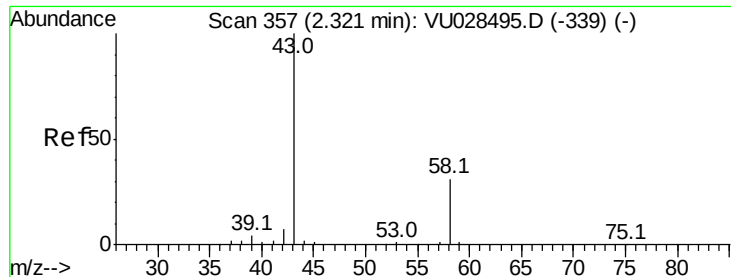


Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

Ion 75.90 (75.60 to 76.60): VU0





#16

Acetone

Concen: 6.763 ug/l

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU028757.D

Acq: 18 Dec 2018 06:48

Instrument :

MSVOA_U

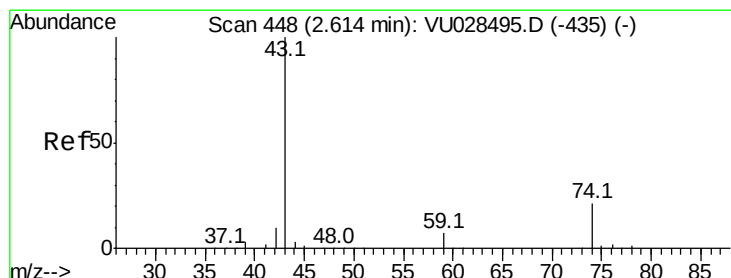
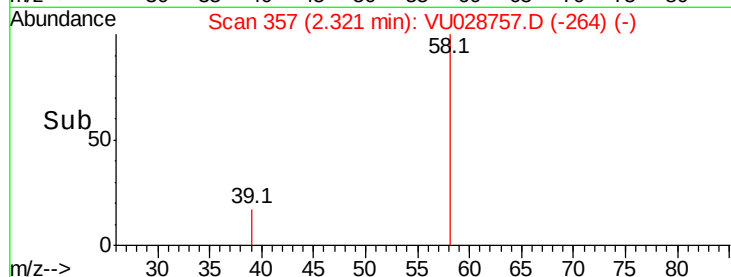
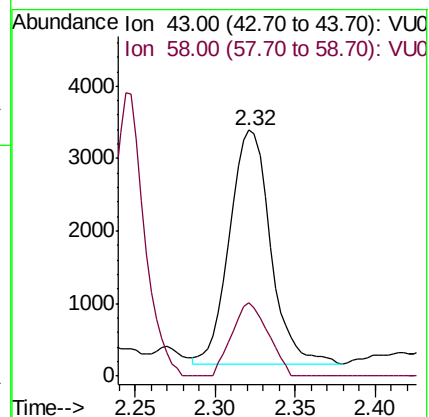
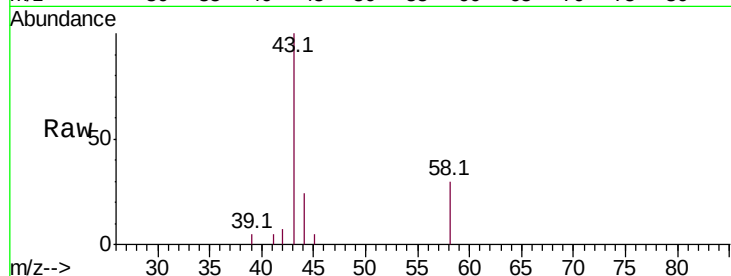
ClientSampleId :

Tot Ion: 43 Resp: 5661

Ion Ratio Lower Upper

43 100

58 31.7 24.6 37.0



#18

Methyl Acetate

Concen: 2.252 ug/l

RT: 2.62 min Scan# 450

Delta R.T. 0.01 min

Lab File: VU028757.D

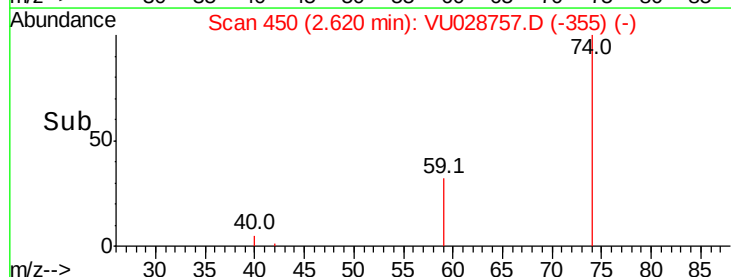
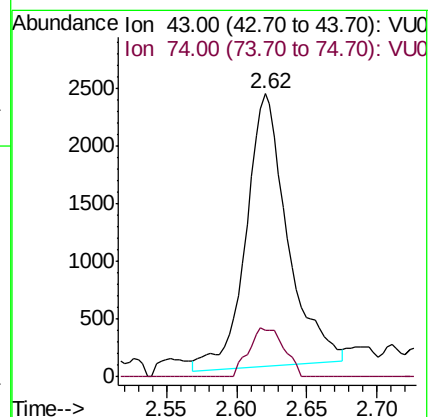
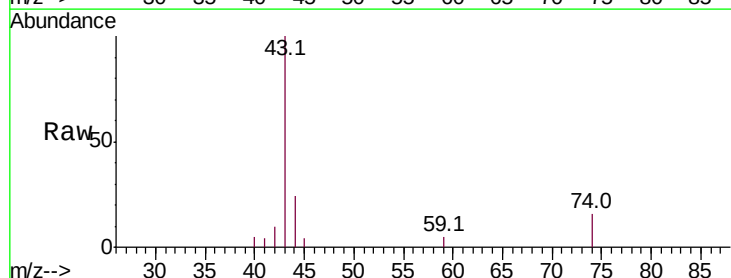
Acq: 18 Dec 2018 06:48

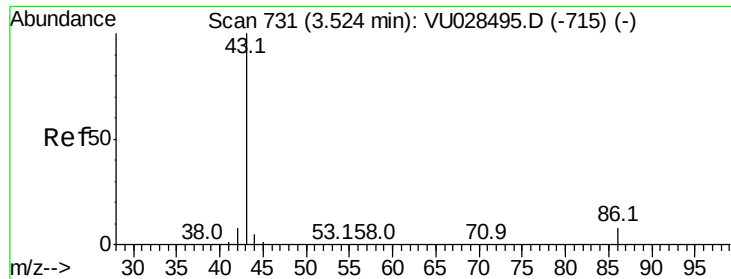
Tgt Ion: 43 Resp: 4887

Ion Ratio Lower Upper

43 100

74 15.1 16.4 24.6#





#23

Vinyl Acetate

Concen: 1.254 ug/l

RT: 3.62 min Scan# 760

Delta R.T. 0.09 min

Lab File: VU028757.D

Acq: 18 Dec 2018 06:48

Instrument :

MSVOA_U

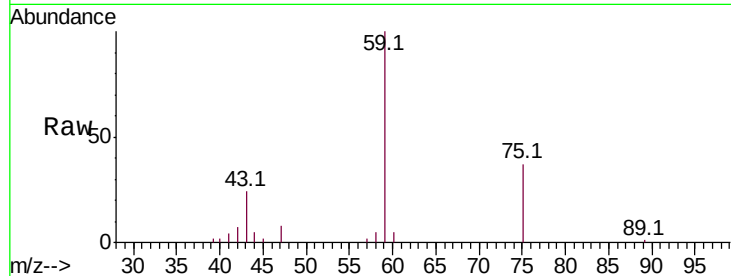
ClientSampleId :

Tot Ion: 43 Resp: 4452

Ion Ratio Lower Upper

43 100

86 0.0 6.8 10.2#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

2000

1500

1000

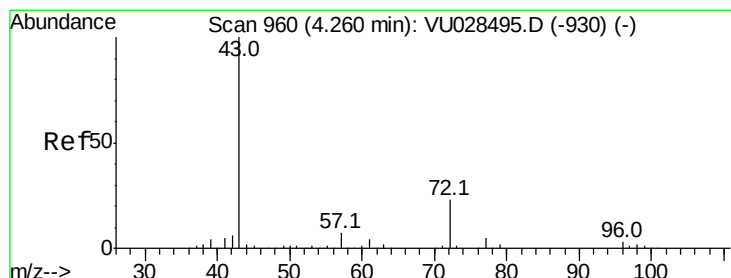
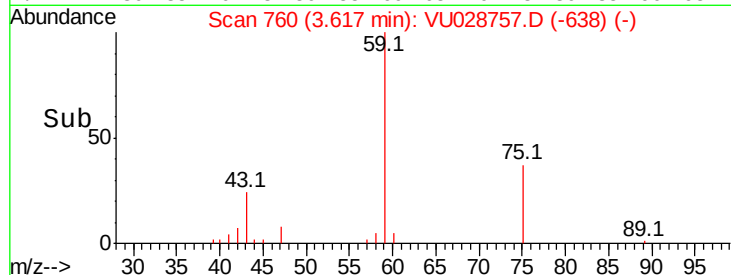
500

0

Time-->

3.55 3.60 3.65 3.70

3.62



#25

2-Butanone

Concen: 20.052 ug/l

RT: 4.27 min Scan# 962

Delta R.T. 0.01 min

Lab File: VU028757.D

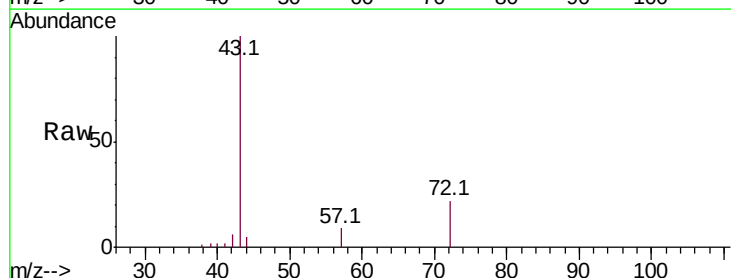
Acq: 18 Dec 2018 06:48

Tgt Ion: 43 Resp: 22938

Ion Ratio Lower Upper

43 100

72 22.0 18.6 28.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

8000

6000

4000

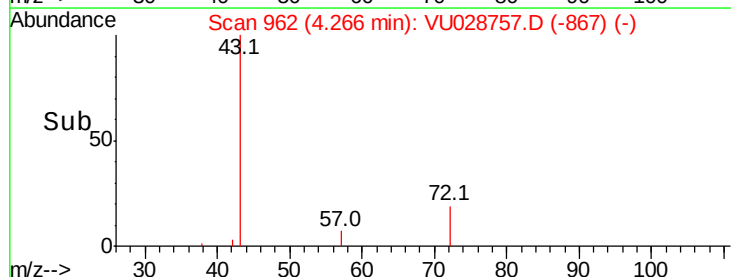
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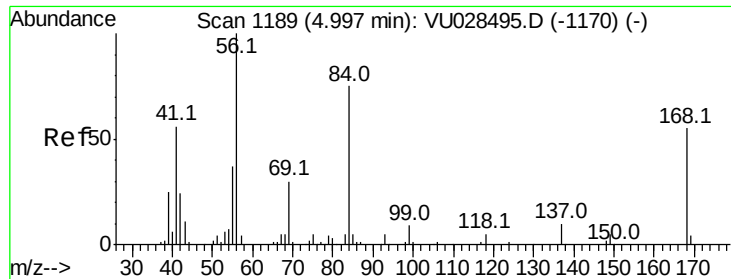
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Time-->

4.20 4.25 4.30 4.35

4.27

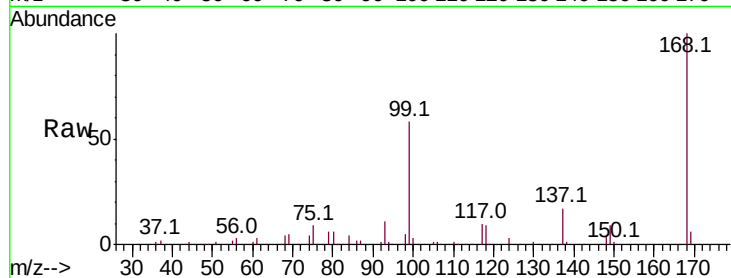




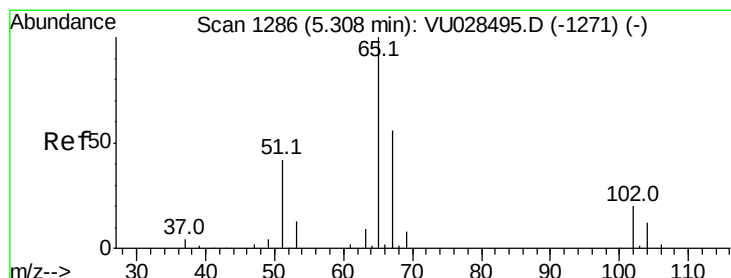
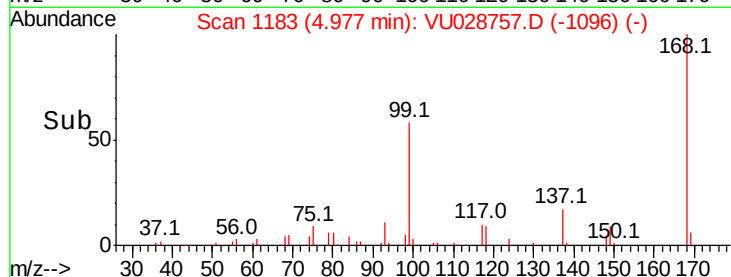
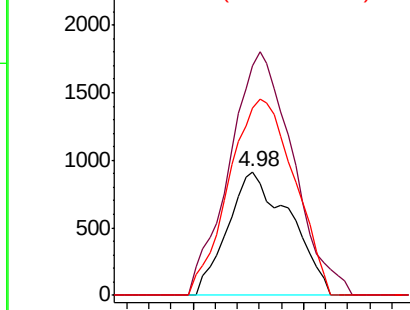
#31
Cyclohexane
Concen: Below Cal
RT: 4.98 min Scan# 1183
Delta R.T. -0.02 min
Lab File: VU028757.D
Acq: 18 Dec 2018 06:48

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 56 Resp: 1798
Ion Ratio Lower Upper
56 100
69 185.7 24.0 36.0#
84 151.0 59.7 89.5#

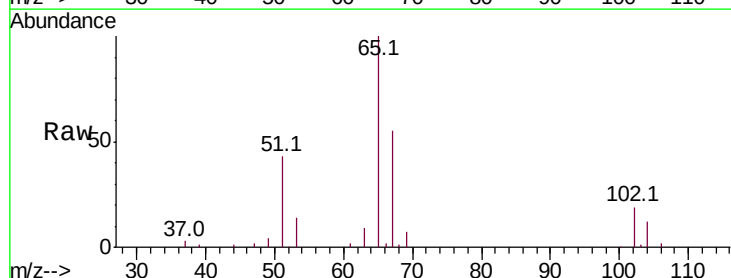


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

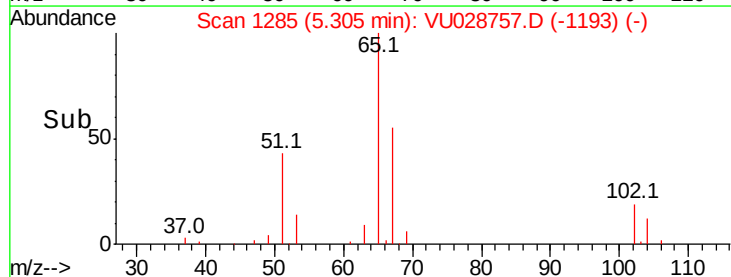
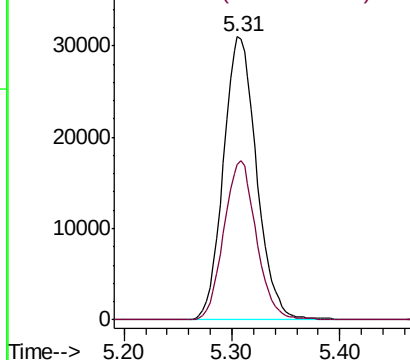


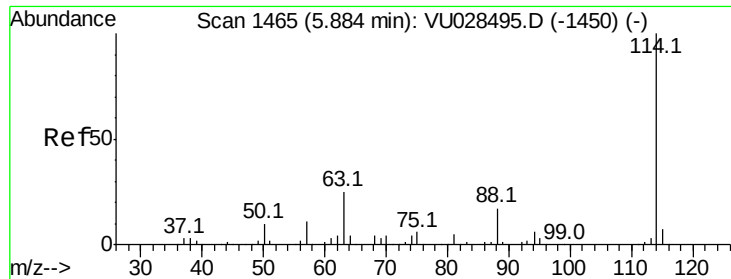
#33
1,2-Dichloroethane-d4
Concen: 51.888 ug/l
RT: 5.31 min Scan# 1285
Delta R.T. -0.00 min
Lab File: VU028757.D
Acq: 18 Dec 2018 06:48

Tgt Ion: 65 Resp: 66561
Ion Ratio Lower Upper
65 100
67 54.8 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU0
Ion 66.90 (66.60 to 67.60): VU0

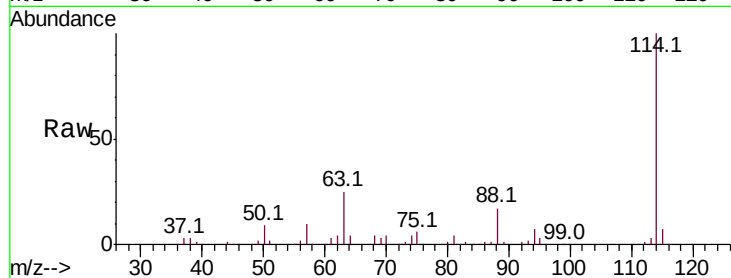




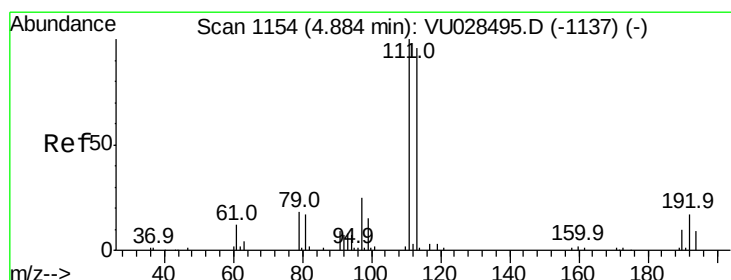
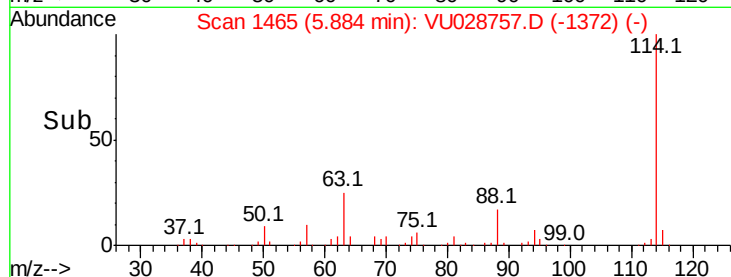
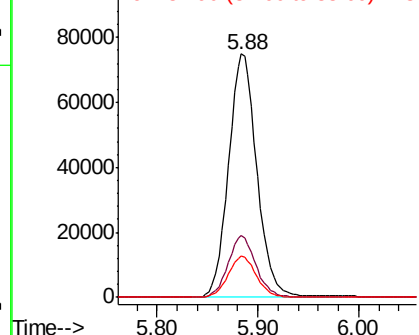
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. -0.00 min
 Lab File: VU028757.D
 Acq: 18 Dec 2018 06:48

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:114 Resp: 147054
 Ion Ratio Lower Upper
 114 100
 63 25.3 0.0 49.2
 88 16.8 0.0 33.4

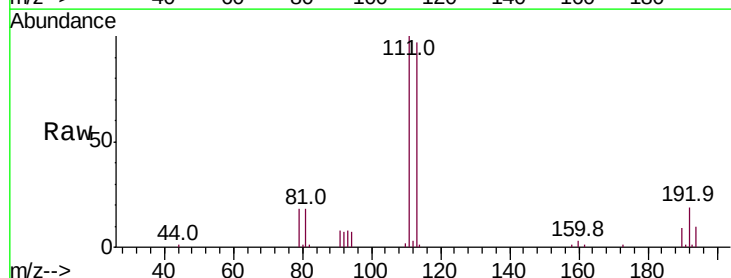


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

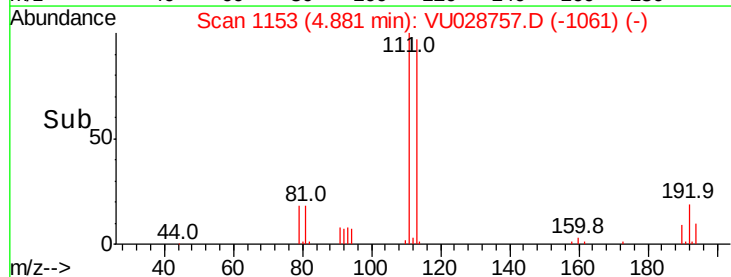
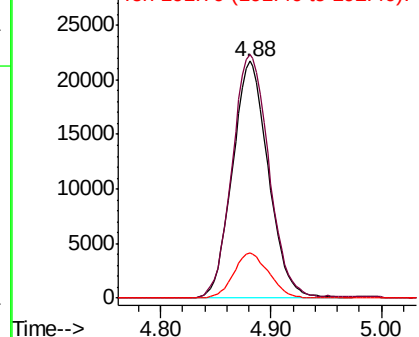


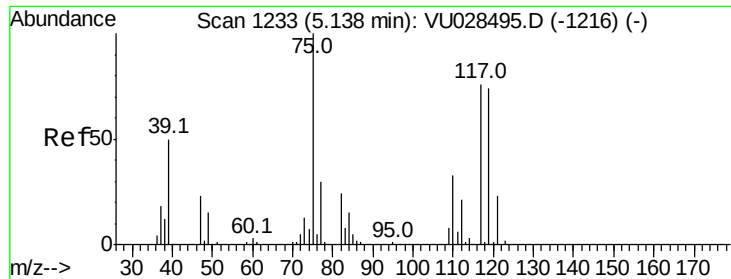
#35
 Dibromofluoromethane
 Concen: 52.873 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. -0.00 min
 Lab File: VU028757.D
 Acq: 18 Dec 2018 06:48

Tgt Ion:113 Resp: 48930
 Ion Ratio Lower Upper
 113 100
 111 105.4 83.4 125.0
 192 18.7 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

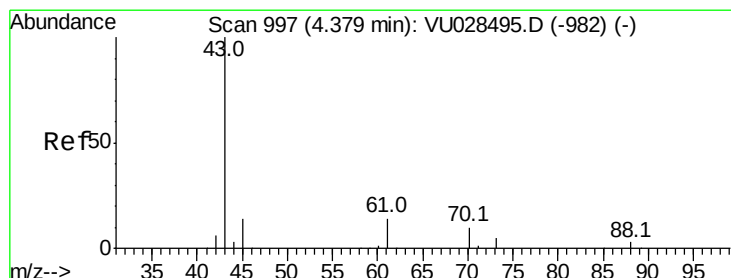
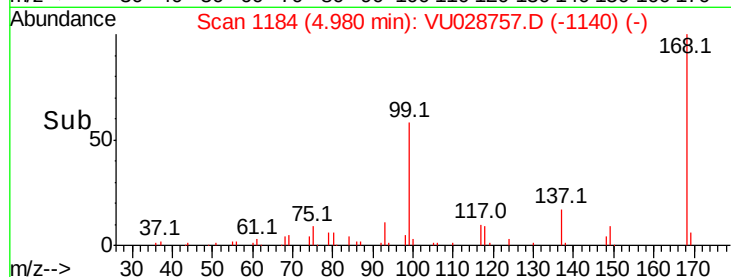
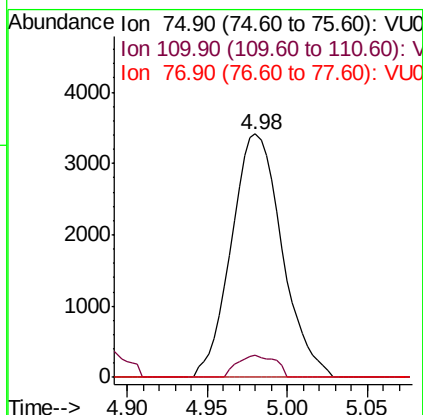
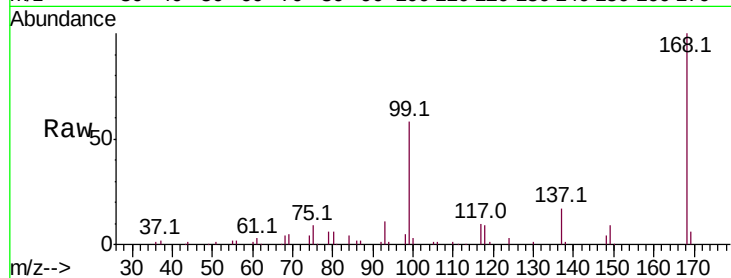




#36
 1,1-Dichloropropene
 Concen: 4.592 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.16 min
 Lab File: VU028757.D
 Acq: 18 Dec 2018 06:48

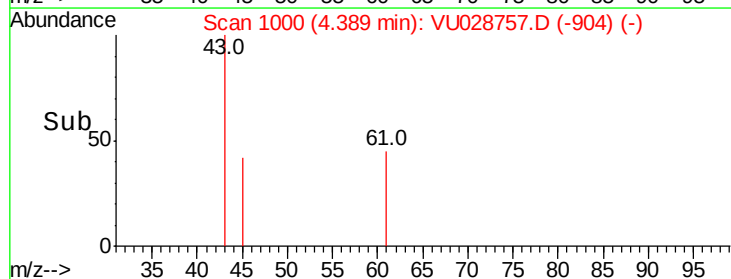
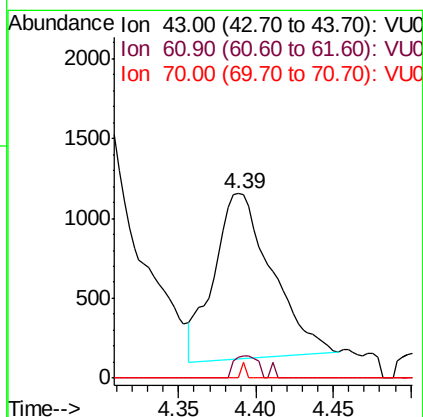
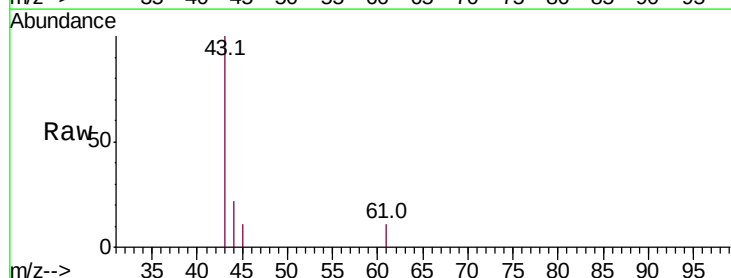
Instrument :
 MSVOA_U
 ClientSampleId :

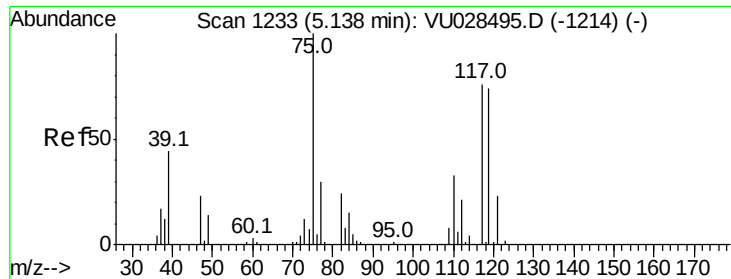
Tot Ion: 75 Resp: 7389
 Ion Ratio Lower Upper
 75 100
 110 6.7 16.1 48.2#
 77 0.0 24.5 36.7#



#37
 Ethyl Acetate
 Concen: 1.297 ug/l
 RT: 4.39 min Scan# 1000
 Delta R.T. 0.01 min
 Lab File: VU028757.D
 Acq: 18 Dec 2018 06:48

Tgt Ion: 43 Resp: 2698
 Ion Ratio Lower Upper
 43 100
 61 5.3 11.0 16.4#
 70 0.7 7.4 11.0#





#38

Carbon Tetrachloride

Concen: 6.314 ug/l

RT: 4.98 min Scan# 1183

Delta R.T. -0.16 min

Lab File: VU028757.D

Acq: 18 Dec 2018 06:48

Instrument :

MSVOA_U

ClientSampleId :

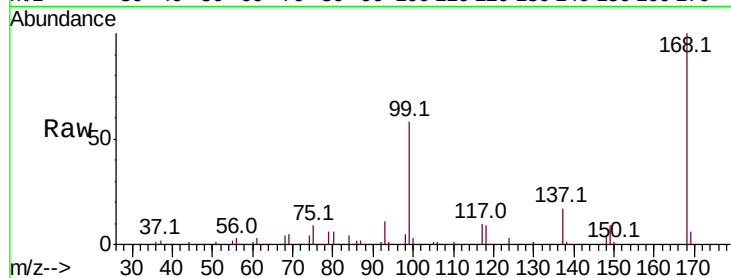
Tot Ion:117 Resp: 8189

Ion Ratio Lower Upper

117 100

119 4.5 77.6 116.4#

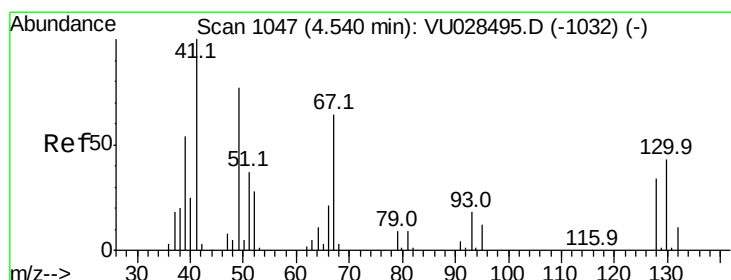
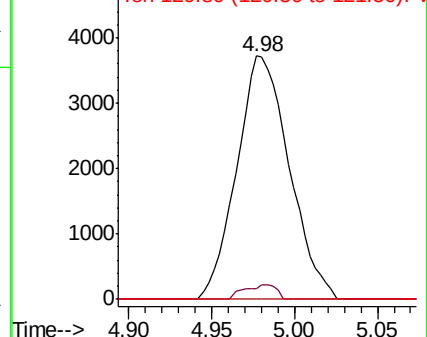
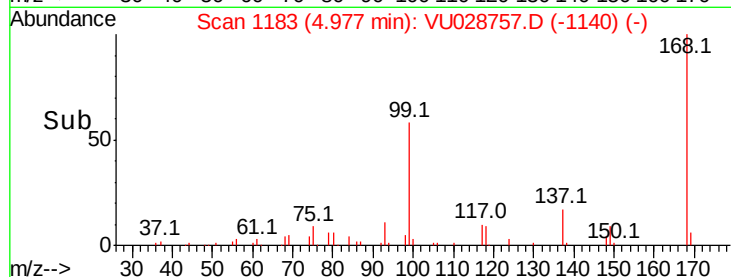
121 0.0 24.6 36.8#



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



#41

Methacrylonitrile

Concen: 0.353 ug/l

RT: 4.28 min Scan# 965

Delta R.T. -0.26 min

Lab File: VU028757.D

Acq: 18 Dec 2018 06:48

Tgt Ion: 41 Resp: 402

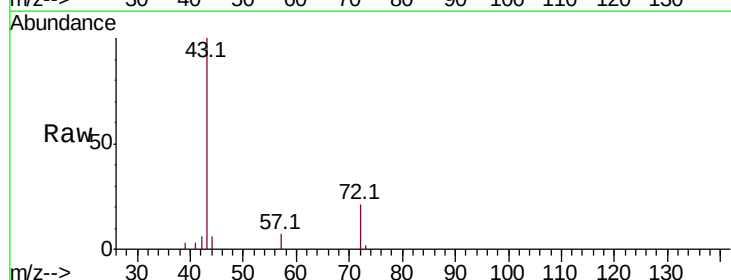
Ion Ratio Lower Upper

41 100

39 0.0 43.3 64.9#

67 0.0 53.6 80.4#

52 0.0 22.1 33.1#

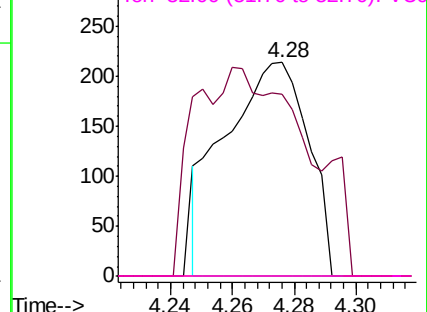
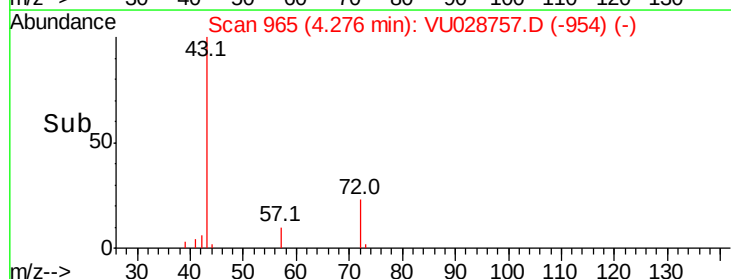


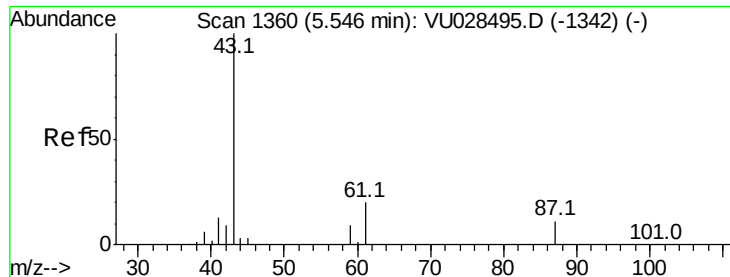
Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

Ion 67.00 (66.70 to 67.70): VU0

Ion 52.00 (51.70 to 52.70): VU0





#43

Isopropyl Acetate

Concen: 0.236 ug/l

RT: 5.59 min Scan# 1373

Delta R.T. 0.04 min

Lab File: VU028757.D

Acq: 18 Dec 2018 06:48

Instrument :

MSVOA_U

ClientSampleId :

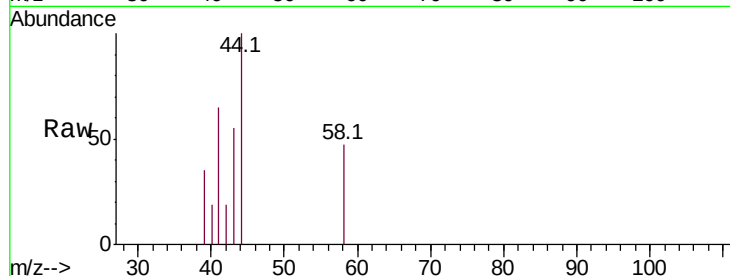
Tot Ion: 43 Resp: 775

Ion Ratio Lower Upper

43 100

61 0.0 15.5 23.3#

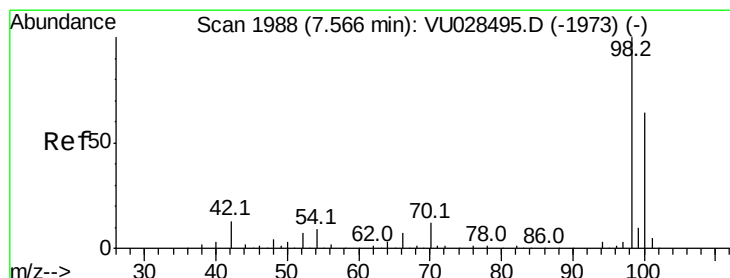
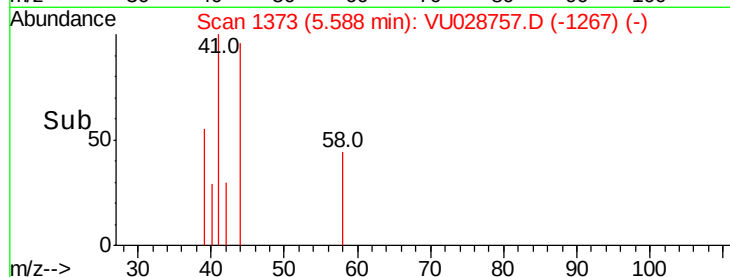
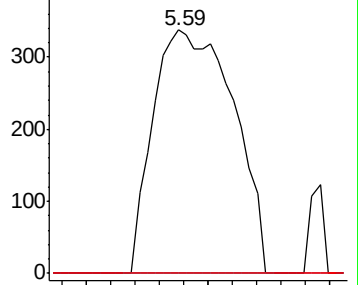
87 0.0 8.7 13.1#



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



#50

Toluene-d8

Concen: 51.411 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. -0.00 min

Lab File: VU028757.D

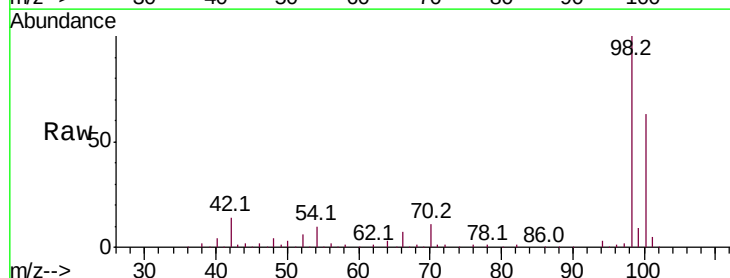
Acq: 18 Dec 2018 06:48

Tgt Ion: 98 Resp: 188205

Ion Ratio Lower Upper

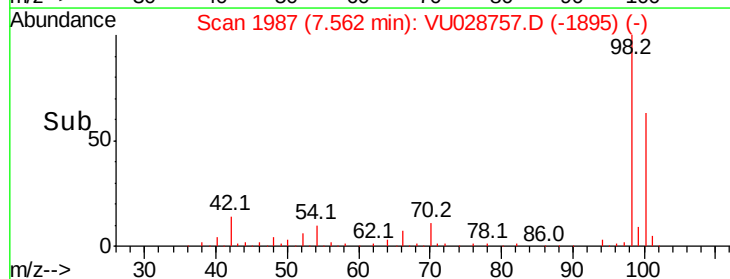
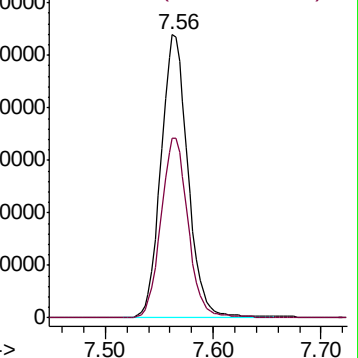
98 100

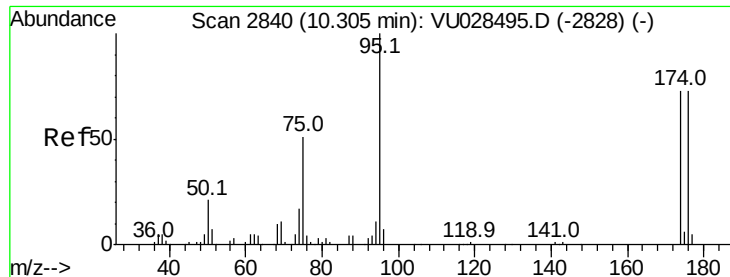
100 63.8 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU0





#62

4-Bromofluorobenzene

Concen: 45.898 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. 0.00 min

Lab File: VU028757.D

Acq: 18 Dec 2018 06:48

Instrument :

MSVOA_U

ClientSampled :

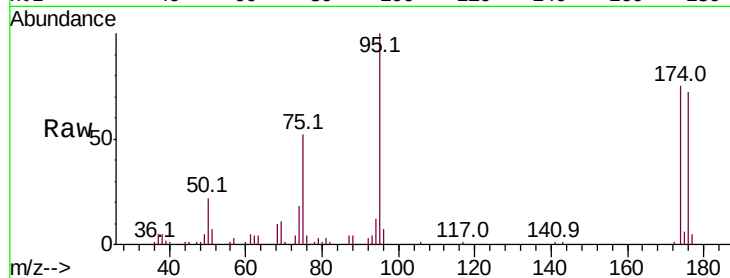
Tot Ion: 95 Resp: 62801

Ion Ratio Lower Upper

95 100

174 75.1 0.0 150.4

176 72.8 0.0 145.2

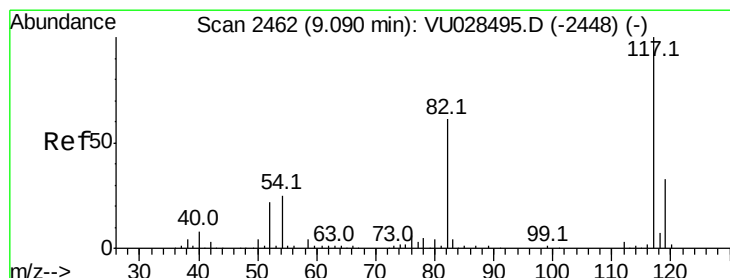
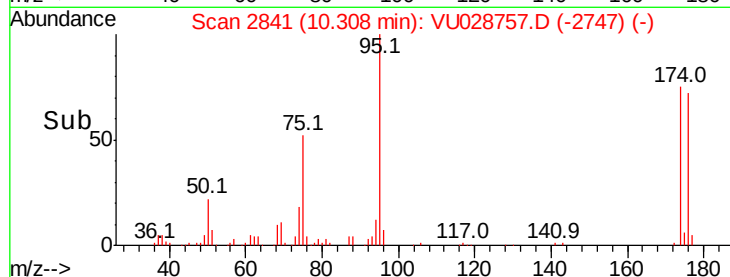


Abundance Ion 94.90 (94.60 to 95.60): VU028495.D (-2828) (-)

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

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

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2462

Delta R.T. -0.00 min

Lab File: VU028757.D

Acq: 18 Dec 2018 06:48

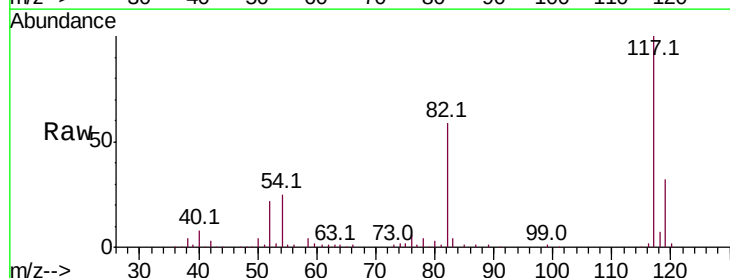
Tgt Ion: 117 Resp: 130460

Ion Ratio Lower Upper

117 100

82 59.5 48.9 73.3

119 31.7 26.2 39.4

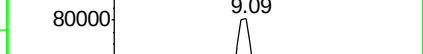
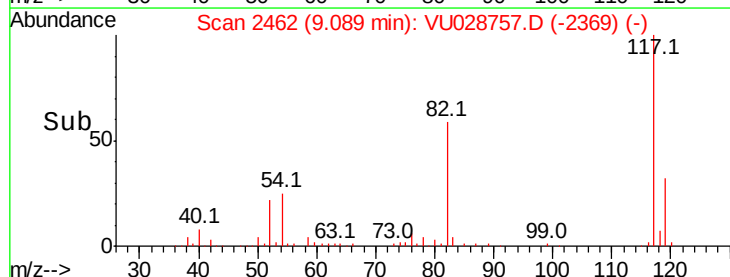


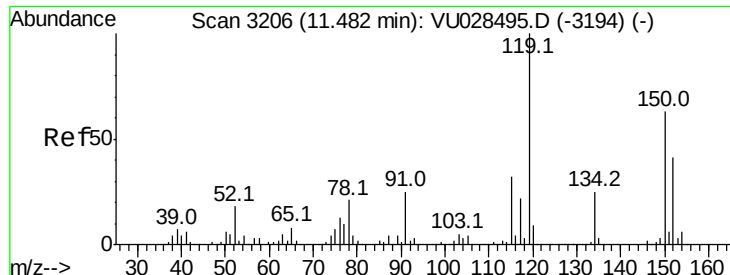
Abundance Ion 116.90 (116.60 to 117.60): VU028495.D (-2448) (-)

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

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

Time-->

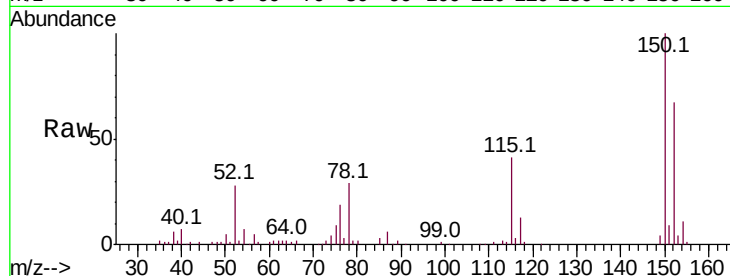




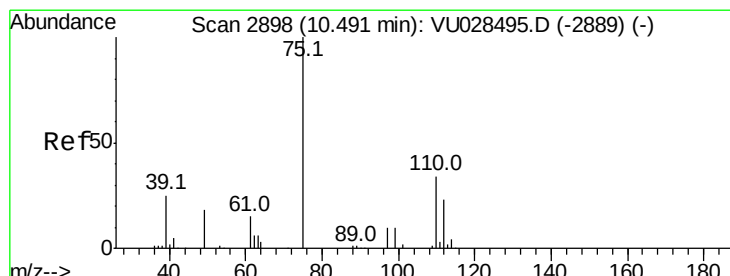
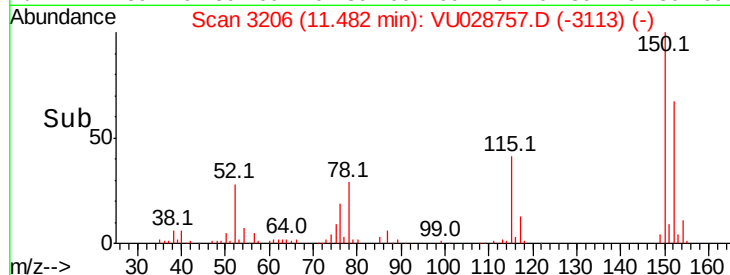
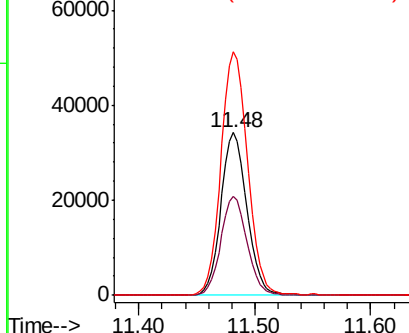
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.48 min Scan# 3206
 Delta R.T. -0.00 min
 Lab File: VU028757.D
 Acq: 18 Dec 2018 06:48

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:152 Resp: 53328
 Ion Ratio Lower Upper
 152 100
 115 60.9 42.7 128.1
 150 152.7 0.0 346.0

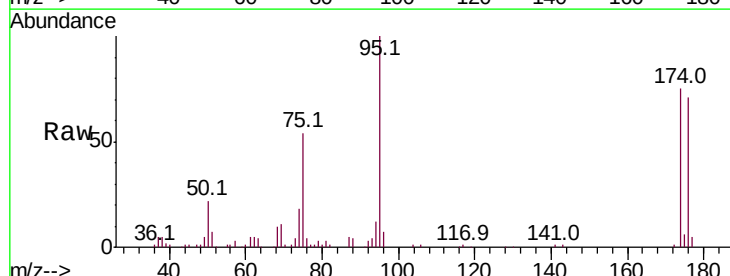


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

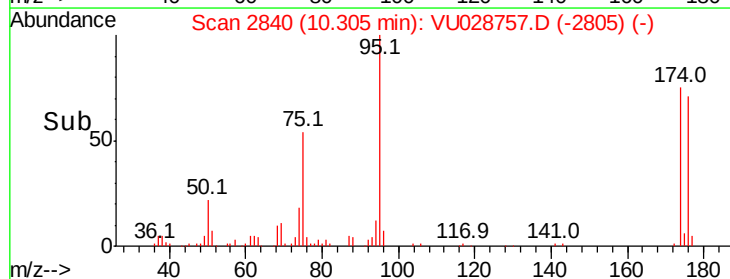
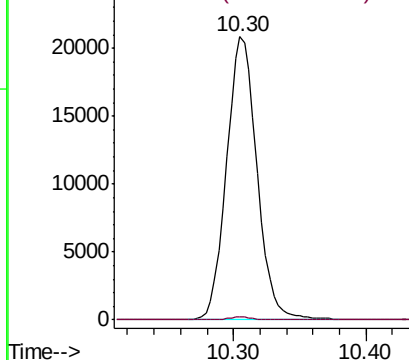


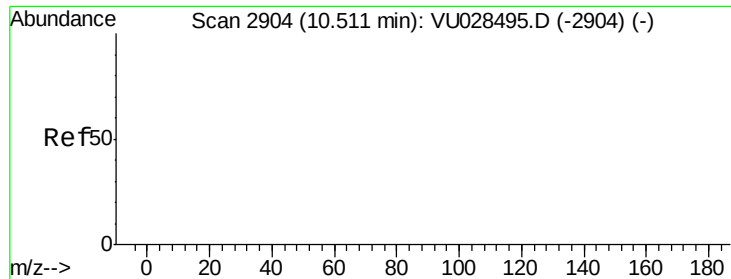
#76
 1,2,3-Trichloropropane
 Concen: 24.347 ug/l
 RT: 10.30 min Scan# 2840
 Delta R.T. -0.19 min
 Lab File: VU028757.D
 Acq: 18 Dec 2018 06:48

Tgt Ion: 75 Resp: 33154
 Ion Ratio Lower Upper
 75 100
 77 0.7 20.8 62.4#



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: 59.758 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU028757.D

Acq: 18 Dec 2018 06:48

Instrument :

MSVOA_U

ClientSampleId :

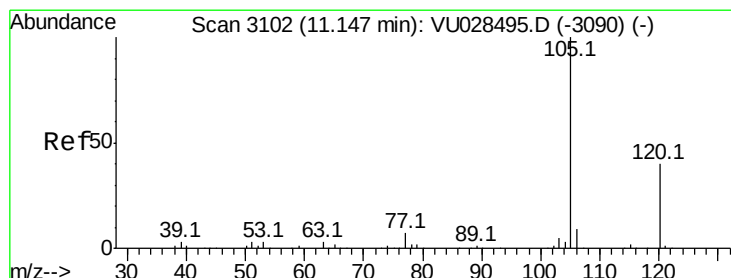
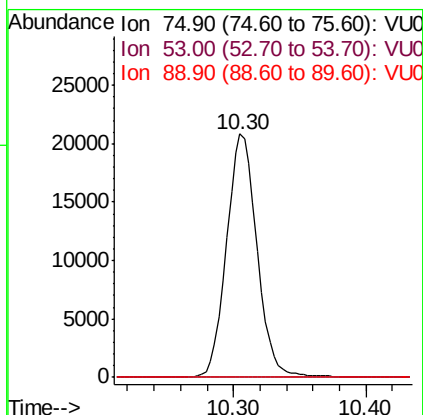
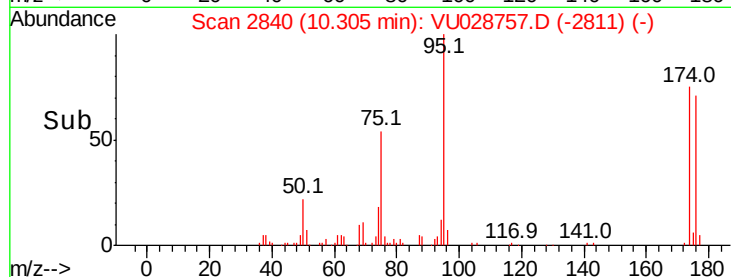
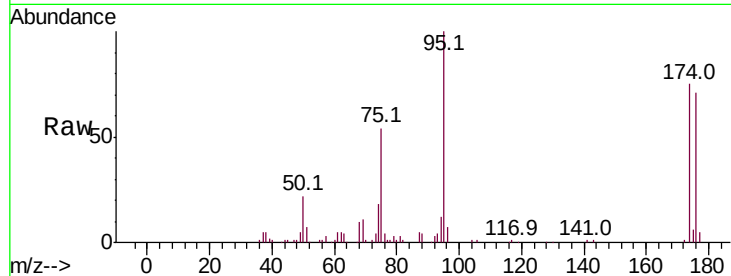
Tot Ion: 75 Resp: 33154

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0



#84

1,2,4-Trimethylbenzene

Concen: 0.267 ug/l

RT: 11.15 min Scan# 3103

Delta R.T. 0.00 min

Lab File: VU028757.D

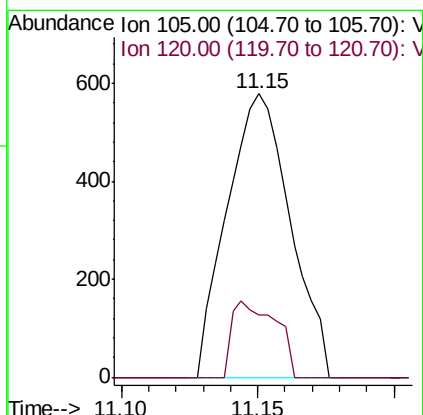
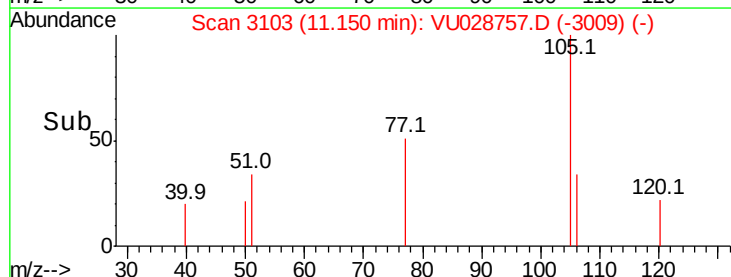
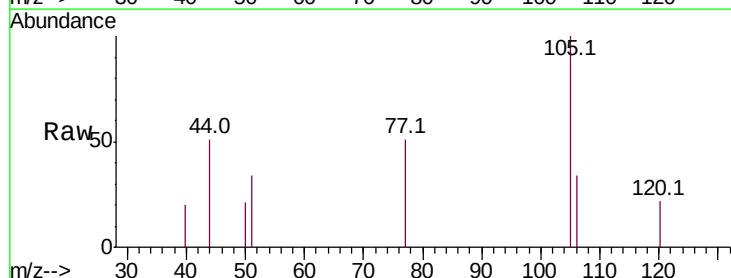
Acq: 18 Dec 2018 06:48

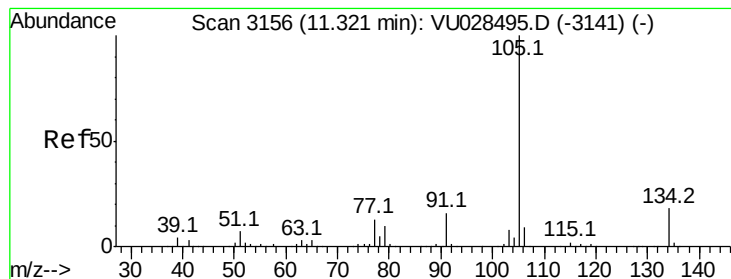
Tgt Ion: 105 Resp: 931

Ion Ratio Lower Upper

105 100

120 18.6 21.8 65.4#





#85

sec-Butylbenzene

Concen: 0.222 ug/l

RT: 11.15 min Scan# 3103

Delta R.T. -0.17 min

Lab File: VU028757.D

Acq: 18 Dec 2018 06:48

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion:105 Resp: 931

Ion Ratio Lower Upper

105 100

134 0.0 9.2 27.6#

