

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121118\
 Data File : VU028552.D
 Acq On : 10 Dec 2018 15:37
 Operator : MD/SY
 Sample : J6323-03
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 RE-122D1-20181206

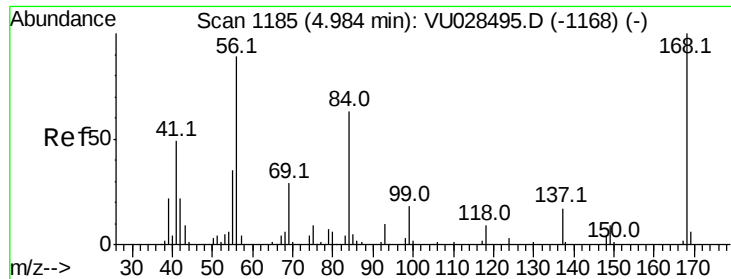
Quant Time: Dec 11 03:38:19 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U120618W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 07 00:39:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	90570	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	169659	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	161015	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	74455	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	76883	55.63	ug/l	0.00
Spiked Amount			Recovery	=	111.26%	
35) Dibromofluoromethane	4.88	113	56359	52.79	ug/l	0.00
Spiked Amount			Recovery	=	105.58%	
50) Toluene-d8	7.57	98	224910	53.25	ug/l	0.00
Spiked Amount			Recovery	=	106.50%	
62) 4-Bromofluorobenzene	10.30	95	80165	50.78	ug/l	0.00
Spiked Amount			Recovery	=	101.56%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) 1,1,2-Trichlorotrifluoroet	2.29	101	3733	3.683	ug/l	99
11) Tert butyl alcohol	2.84	59	477	1.549	ug/l #	73
12) 1,1-Dichloroethene	2.29	96	889	0.882	ug/l	96
14) Allyl chloride	2.44	41	1100	0.461	ug/l #	69
16) Acetone	2.32	43	1276	1.415	ug/l	94
18) Methyl Acetate	2.44	43	2729	1.167	ug/l #	56
21) trans-1,2-Dichloroethene	2.99	96	368	0.324	ug/l #	63
27) cis-1,2-Dichloroethene	4.23	96	3086	2.401	ug/l	88
30) Chloroform	4.68	83	1123	0.531	ug/l #	69
31) Cyclohexane	4.98	56	2171	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	8056	4.339	ug/l #	48
38) Carbon Tetrachloride	5.13	117	923	0.617	ug/l #	82
39) Methylcyclohexane	6.19	83	8597	3.796	ug/l #	1
44) Trichloroethene	6.19	130	647486	532.563	ug/l	98
45) 1,2-Dichloropropane	6.18	63	2369	1.541	ug/l #	1
49) 1,4-Dioxane	6.63	88	240	8.052	ug/l #	73
51) 4-Methyl-2-Pentanone	7.57	43	1093	0.457	ug/l #	1
60) Dibromochloromethane	8.23	129	1876	1.506	ug/l #	10
64) Tetrachloroethene	8.23	164	1895	1.764	ug/l	91
76) 1,2,3-Trichloropropane	10.30	75	41918	22.048	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.30	75	41918	54.165	ug/l #	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VU028552.D

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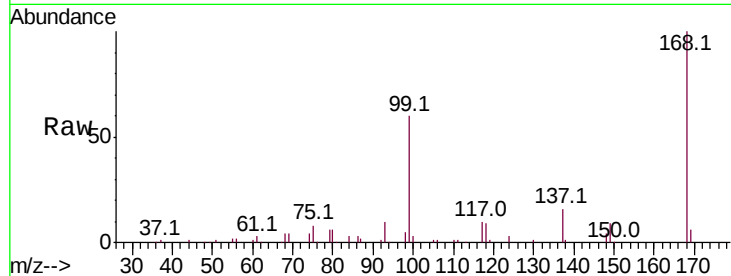
RE-122D1-20181206

Tot Ion:168 Resp: 90570

Ion Ratio Lower Upper

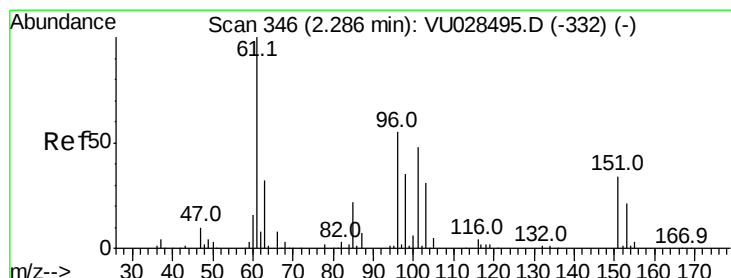
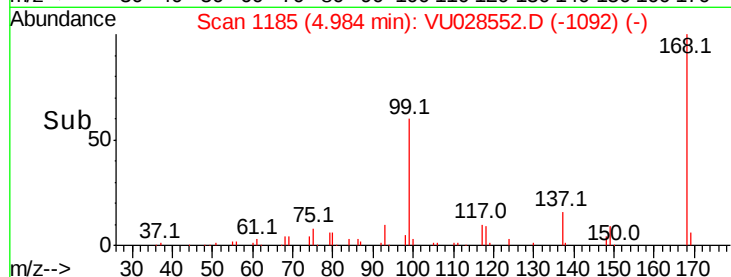
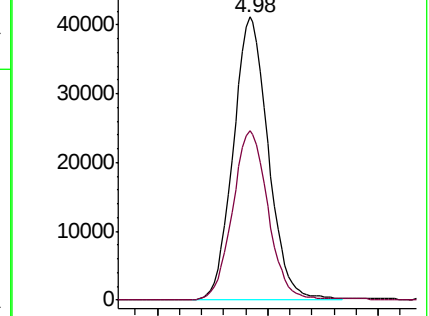
168 100

99 59.7 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VU0



#9

1,1,2-Trichlorotrifluoroethane

Concen: 3.683 ug/l

RT: 2.29 min Scan# 347

Delta R.T. 0.00 min

Lab File: VU028552.D

Acq: 10 Dec 2018 15:37

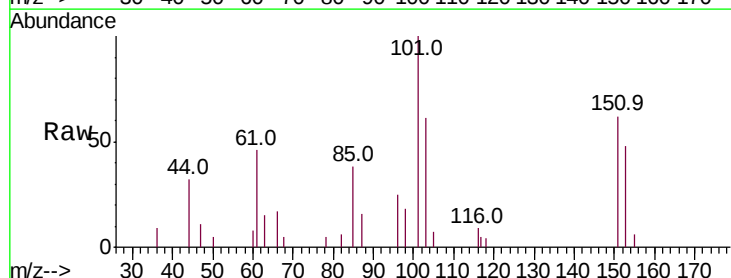
Tgt Ion:101 Resp: 3733

Ion Ratio Lower Upper

101 100

85 45.5 36.4 54.6

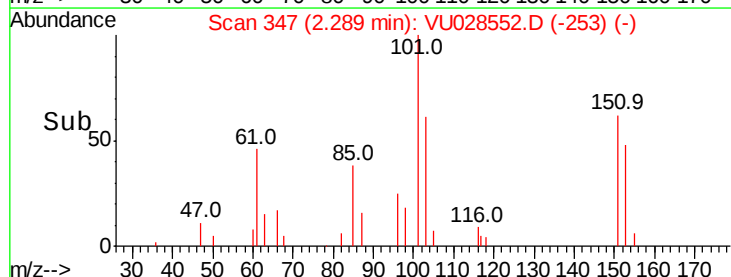
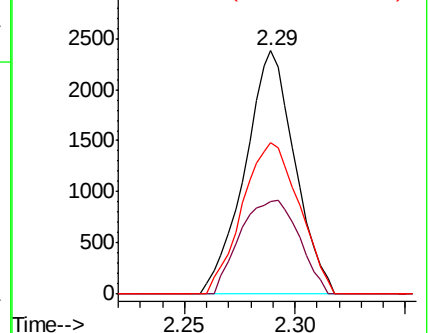
151 71.1 58.2 87.2

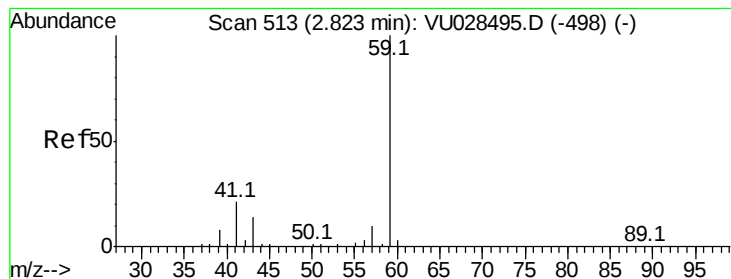


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VU0

Ion 150.80 (150.50 to 151.50): V



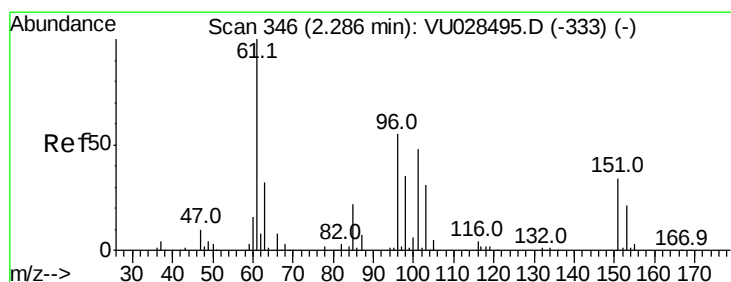
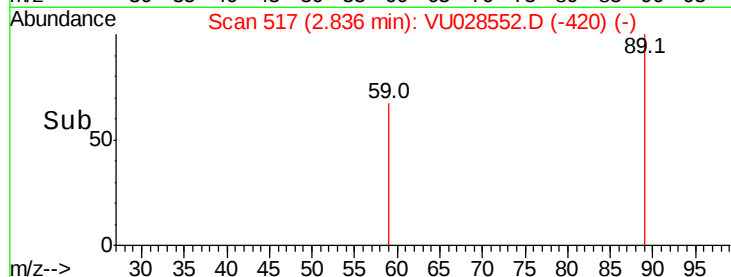
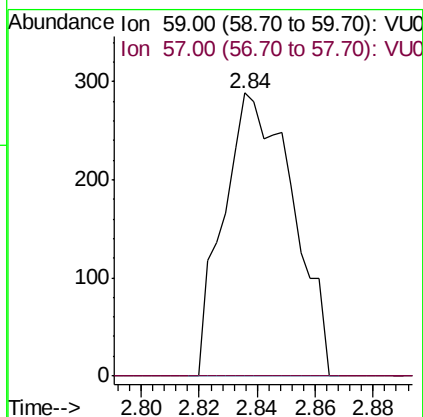
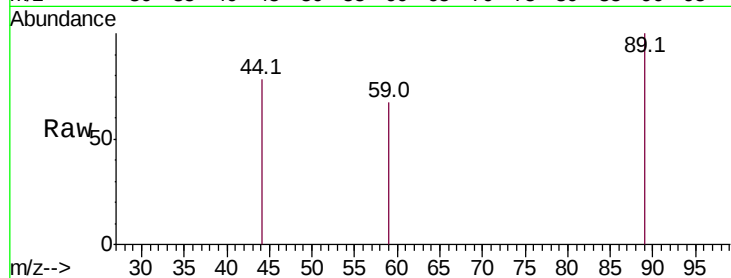


#11

Tert butyl alcohol
 Concen: 1.549 ug/l
 RT: 2.84 min Scan# 517
 Delta R.T. 0.01 min
 Lab File: VU028552.D
 Acq: 10 Dec 2018 15:37

Instrument :
 MSVOA_U
 ClientSampleId :
 RE-122D1-20181206

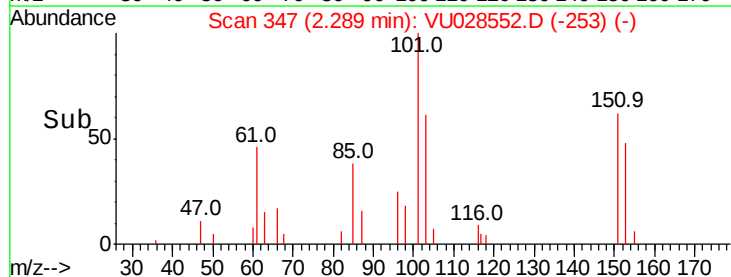
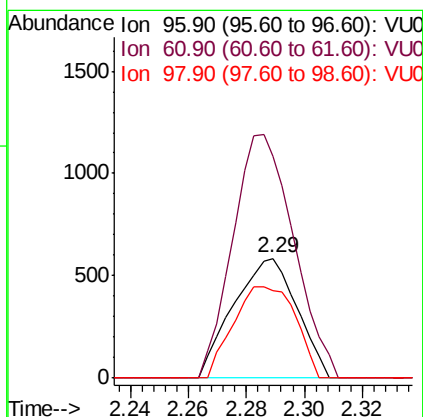
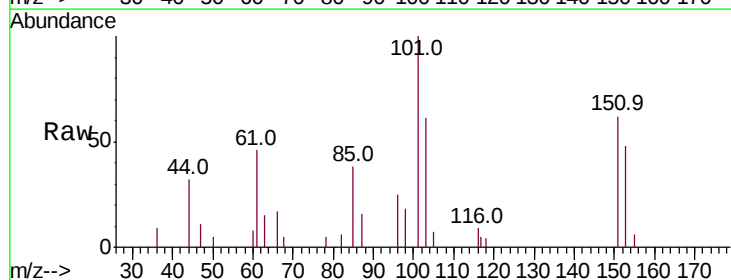
Tot Ion: 59 Resp: 477
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.0 12.0#

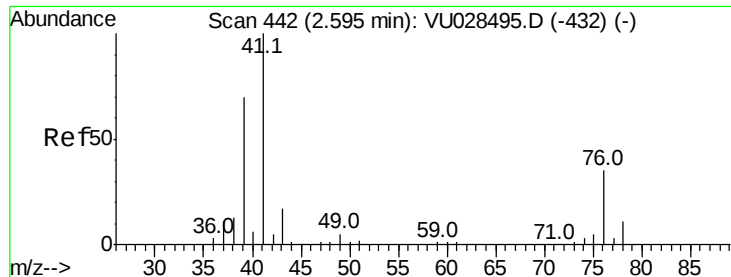


#12

1,1-Dichloroethene
 Concen: 0.882 ug/l
 RT: 2.29 min Scan# 347
 Delta R.T. 0.00 min
 Lab File: VU028552.D
 Acq: 10 Dec 2018 15:37

Tgt Ion: 96 Resp: 889
 Ion Ratio Lower Upper
 96 100
 61 185.3 146.4 219.6
 98 72.8 51.8 77.8





#14

Allvl chloride

Concen: 0.461 ug/l

RT: 2.44 min Scan# 394

Delta R.T. -0.15 min

Lab File: VU028552.D

Acq: 10 Dec 2018 15:37

Instrument :

MSVOA_U

ClientSampleId :

RE-122D1-20181206

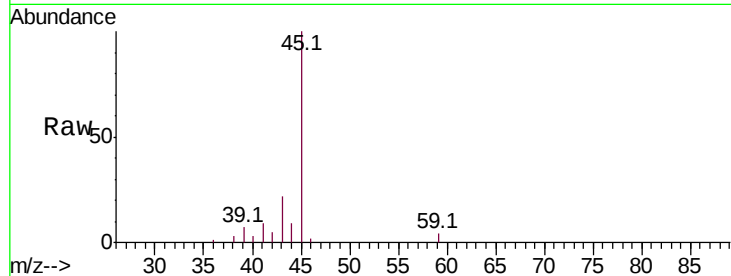
Tot Ion: 41 Resp: 1100

Ion Ratio Lower Upper

41 100

39 78.1 50.8 76.2#

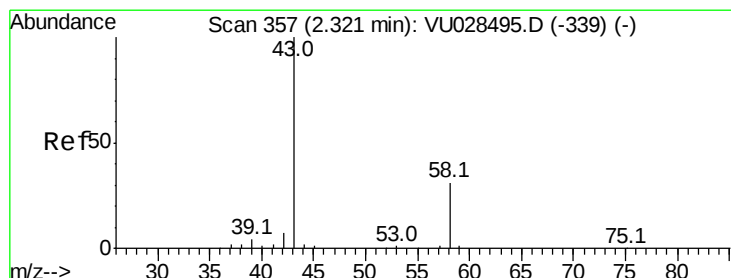
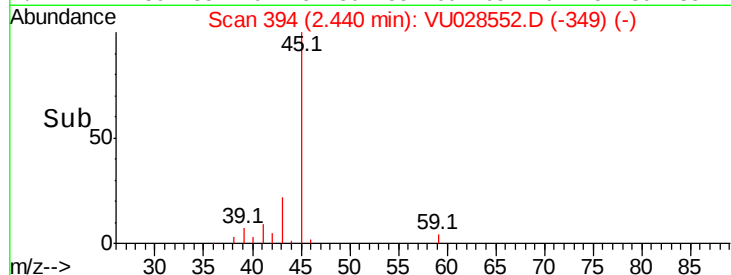
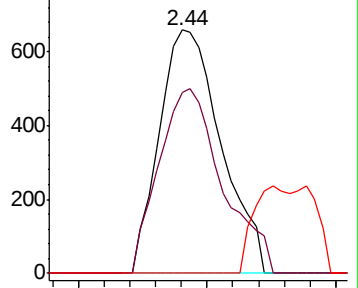
76 0.0 24.8 37.2#



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: 1.415 ug/l

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU028552.D

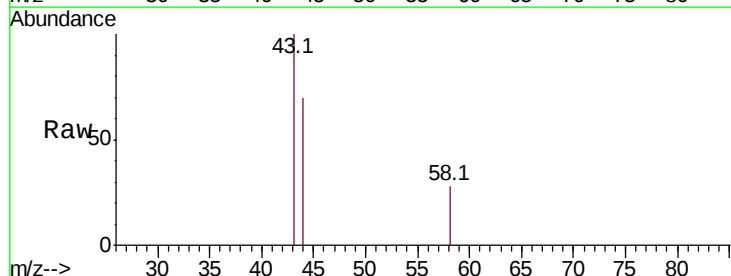
Acq: 10 Dec 2018 15:37

Tgt Ion: 43 Resp: 1276

Ion Ratio Lower Upper

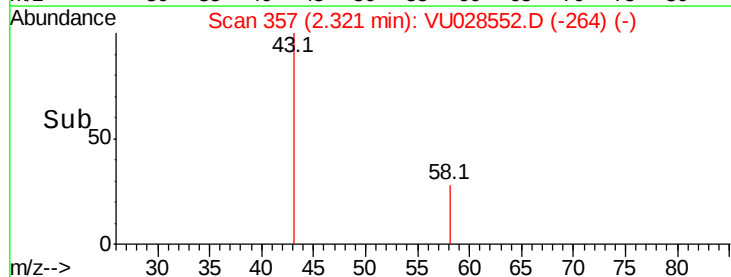
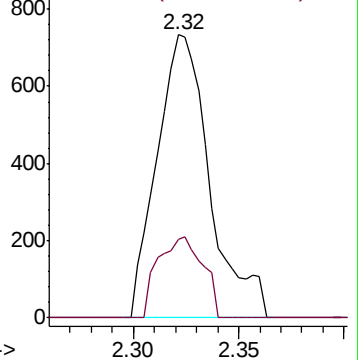
43 100

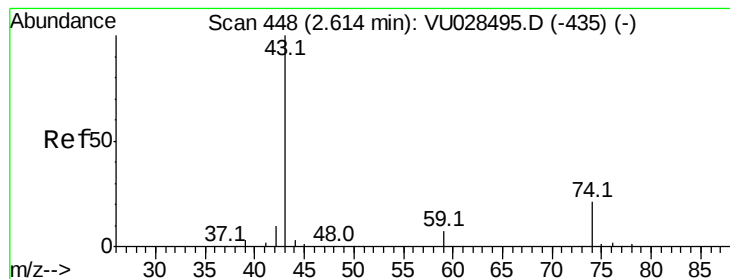
58 27.6 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0





#18

Methvl Acetate

Concen: 1.167 ug/l

RT: 2.44 min Scan# 394

Delta R.T. -0.17 min

Lab File: VU028552.D

Acq: 10 Dec 2018 15:37

Instrument :

MSVOA_U

ClientSampleId :

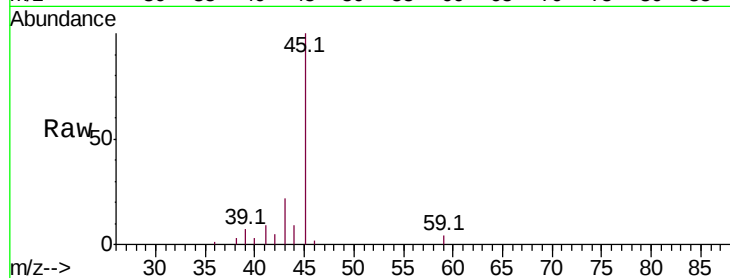
RE-122D1-20181206

Tot Ion: 43 Resp: 2729

Ion Ratio Lower Upper

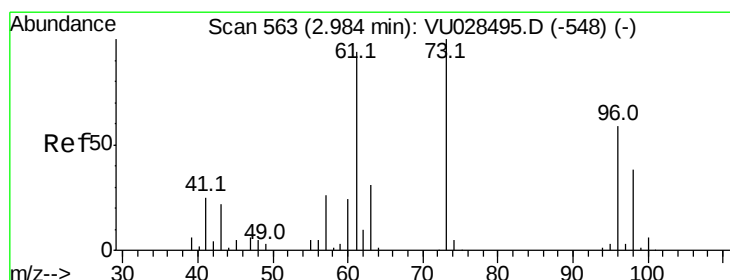
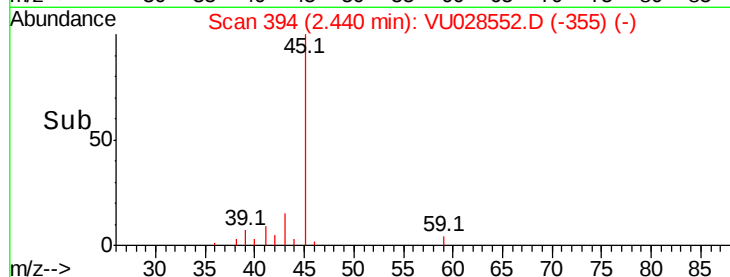
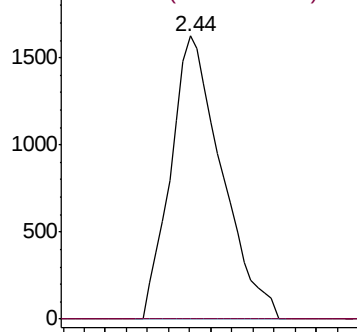
43 100

74 0.0 16.4 24.6#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0



#21

trans-1,2-Dichloroethene

Concen: 0.324 ug/l

RT: 2.99 min Scan# 564

Delta R.T. 0.00 min

Lab File: VU028552.D

Acq: 10 Dec 2018 15:37

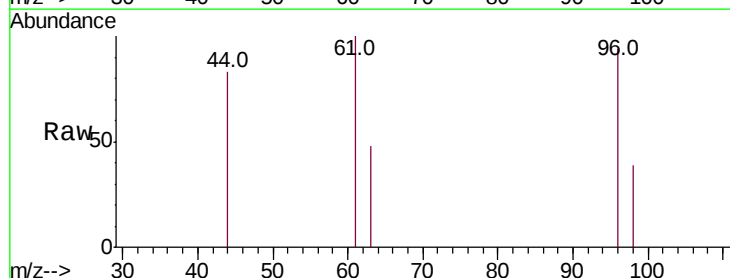
Tgt Ion: 96 Resp: 368

Ion Ratio Lower Upper

96 100

61 106.9 127.0 190.4#

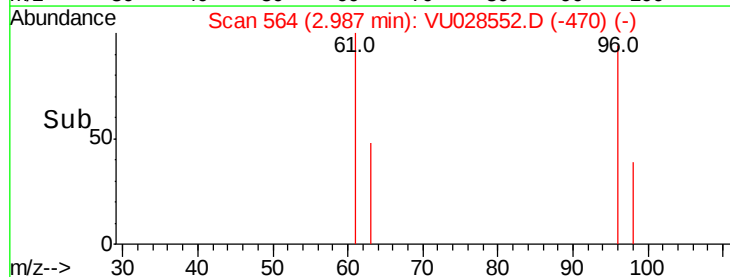
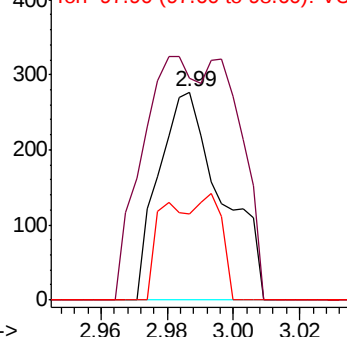
98 41.5 51.9 77.9#

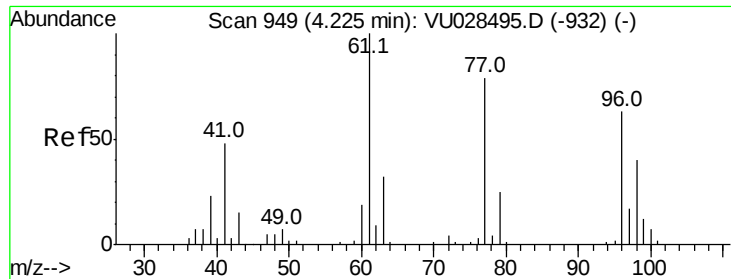


Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0



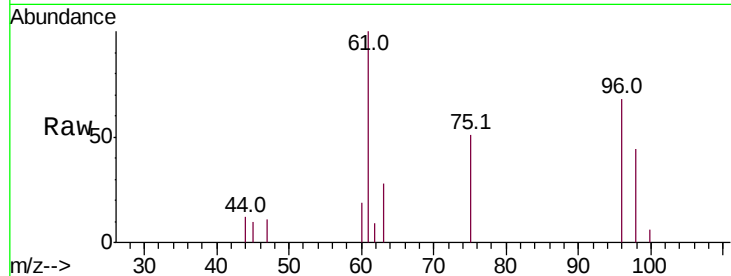


#27

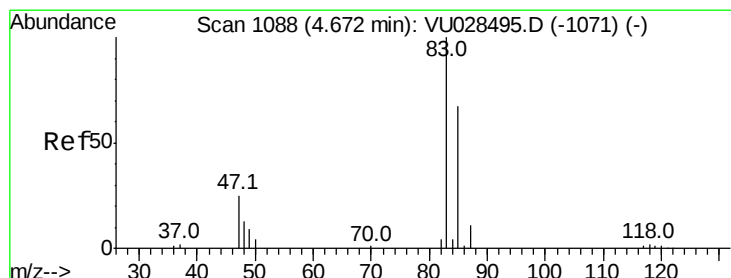
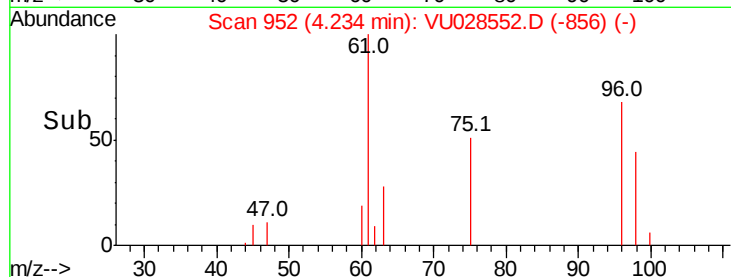
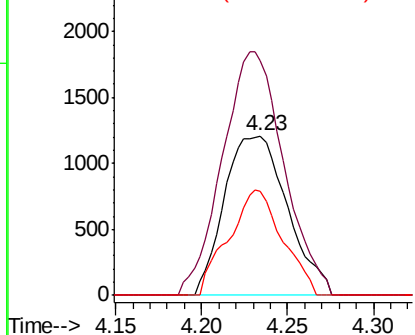
cis-1,2-Dichloroethene
 Concen: 2.401 ug/l
 RT: 4.23 min Scan# 952
 Delta R.T. 0.01 min
 Lab File: VU028552.D
 Acq: 10 Dec 2018 15:37

Instrument :
 MSVOA_U
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 RE-122D1-20181206

Tot Ion: 96 Resp: 3086
 Ion Ratio Lower Upper
 96 100
 61 148.6 0.0 332.4
 98 56.3 0.0 129.0



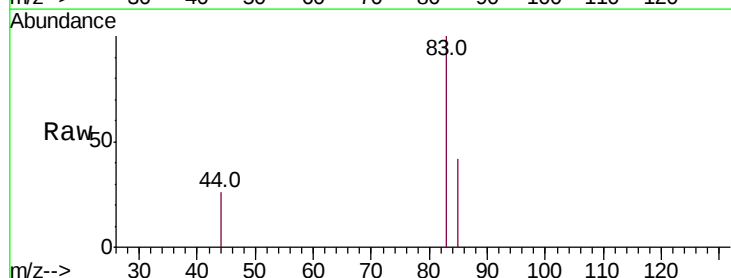
Abundance Ion 95.90 (95.60 to 96.60): VU0
 Ion 60.90 (60.60 to 61.60): VU0
 Ion 97.90 (97.60 to 98.60): VU0



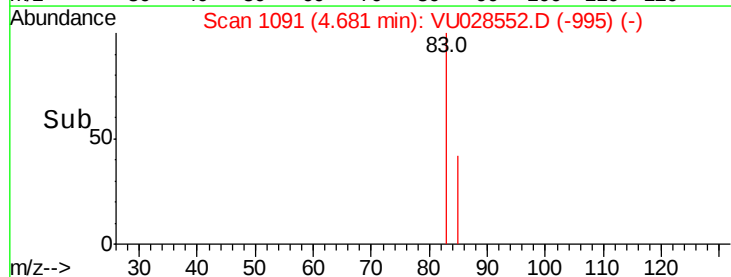
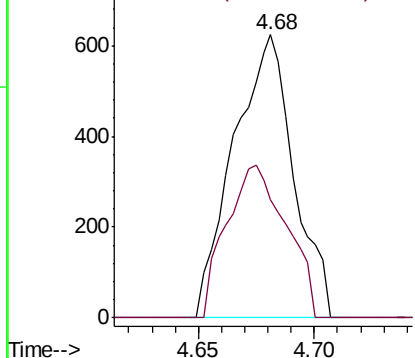
#30

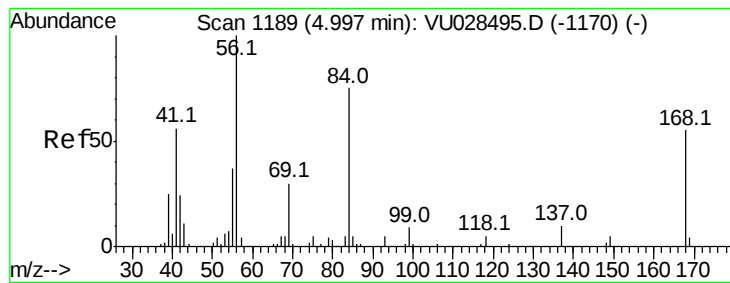
Chloroform
 Concen: 0.531 ug/l
 RT: 4.68 min Scan# 1091
 Delta R.T. 0.01 min
 Lab File: VU028552.D
 Acq: 10 Dec 2018 15:37

Tgt Ion: 83 Resp: 1123
 Ion Ratio Lower Upper
 83 100
 85 42.0 53.6 80.4#



Abundance Ion 82.90 (82.60 to 83.60): VU0
 Ion 84.90 (84.60 to 85.60): VU0





#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1184

Delta R.T. -0.02 min

Lab File: VU028552.D

Acq: 10 Dec 2018 15:37

Instrument :

MSVOA_U

ClientSampleId :

RE-122D1-20181206

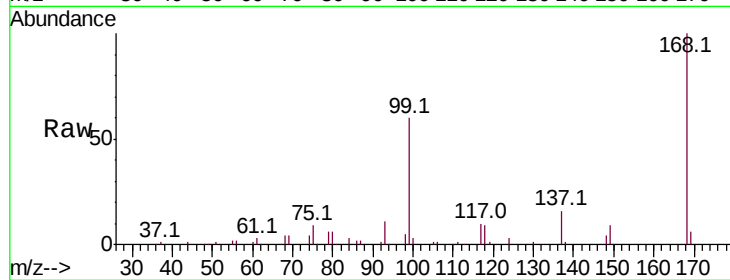
Tot Ion: 56 Resp: 2171

Ion Ratio Lower Upper

56 100

69 182.6 24.0 36.0#

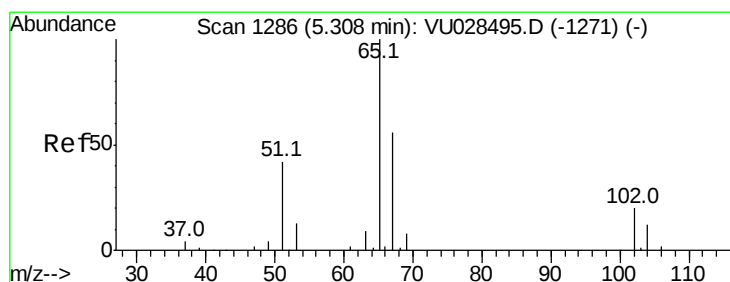
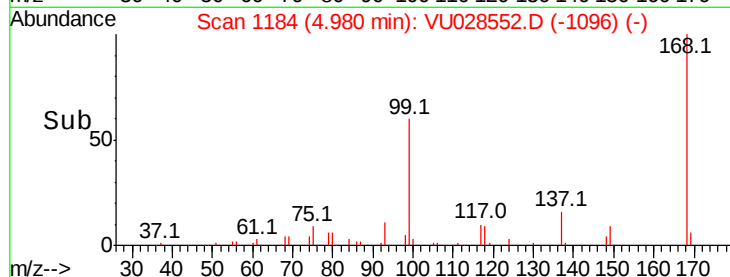
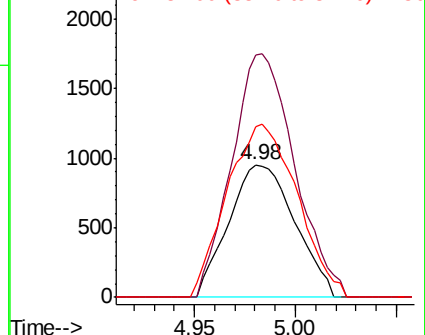
84 128.2 59.7 89.5#



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: 55.625 ug/l

RT: 5.31 min Scan# 1286

Delta R.T. -0.00 min

Lab File: VU028552.D

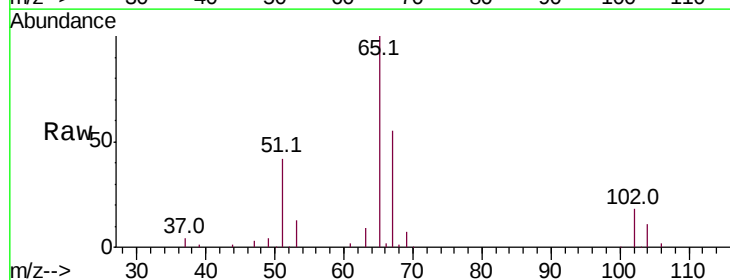
Acq: 10 Dec 2018 15:37

Tgt Ion: 65 Resp: 76883

Ion Ratio Lower Upper

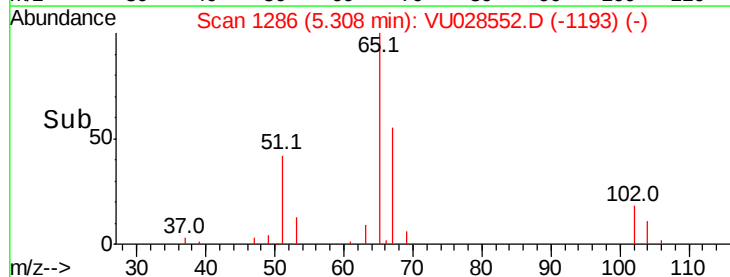
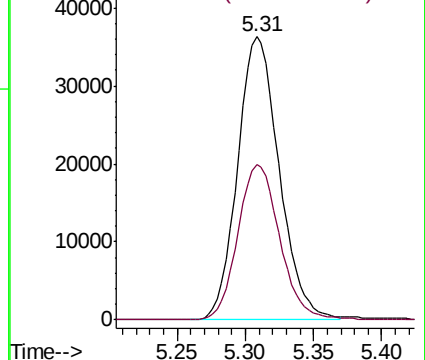
65 100

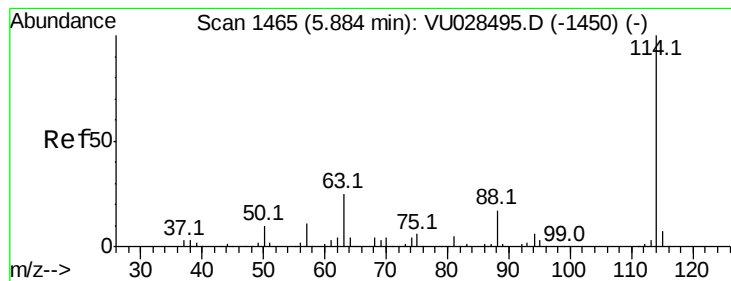
67 55.4 0.0 110.6



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: VU028552.D

Acq: 10 Dec 2018 15:37

Instrument :

MSVOA_U

ClientSampleId :

RE-122D1-20181206

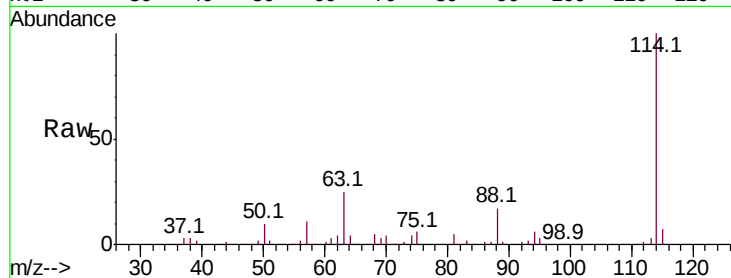
Tot Ion:114 Resp: 169659

Ion Ratio Lower Upper

114 100

63 24.8 0.0 49.2

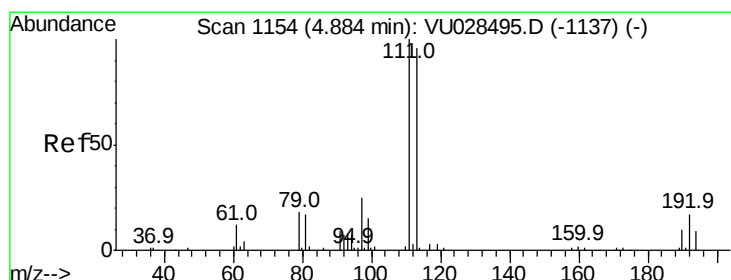
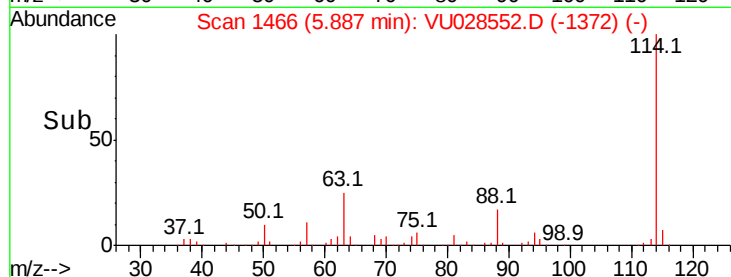
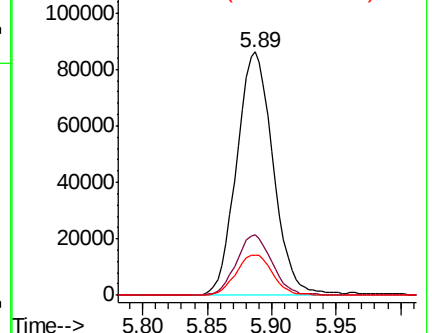
88 16.7 0.0 33.4



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: 52.787 ug/l

RT: 4.88 min Scan# 1154

Delta R.T. -0.00 min

Lab File: VU028552.D

Acq: 10 Dec 2018 15:37

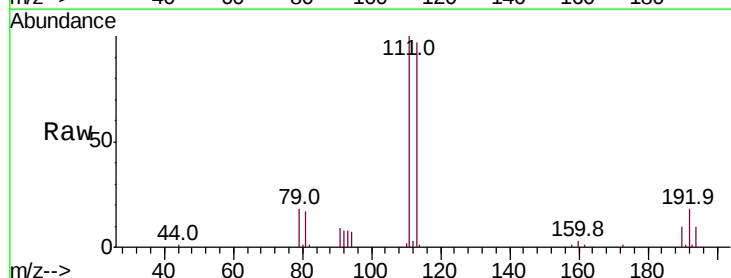
Tgt Ion:113 Resp: 56359

Ion Ratio Lower Upper

113 100

111 104.3 83.4 125.0

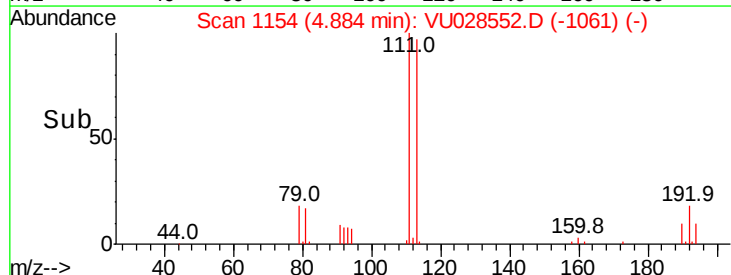
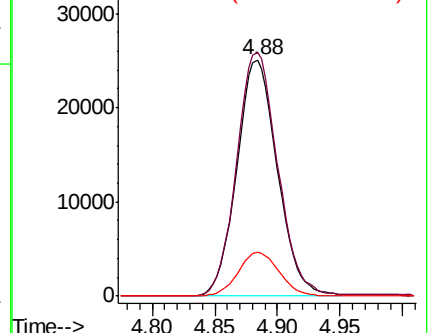
192 18.6 14.8 22.2

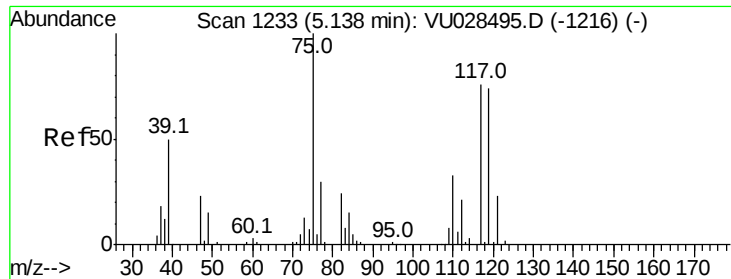


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

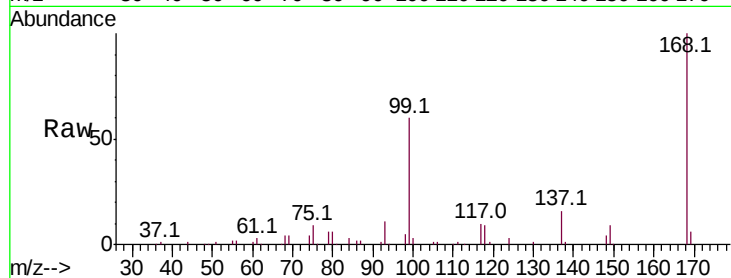




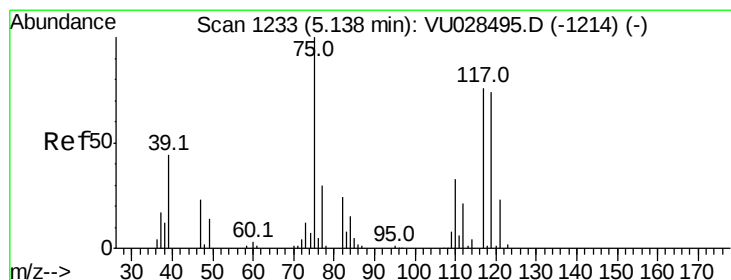
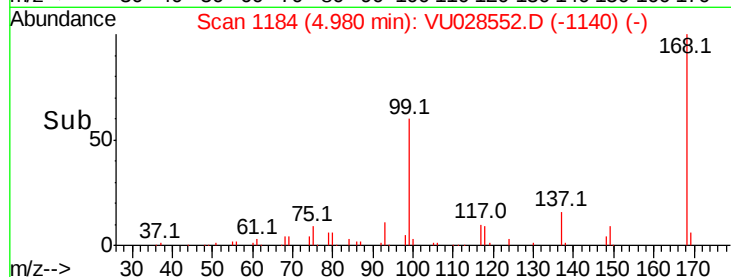
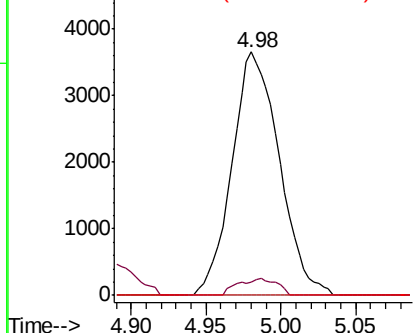
#36
 1,1-Dichloropropene
 Concen: 4.339 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.16 min
 Lab File: VU028552.D
 Acq: 10 Dec 2018 15:37

Instrument :
 MSVOA_U
 ClientSampleId :
 RE-122D1-20181206

Tot Ion: 75 Resp: 8056
 Ion Ratio Lower Upper
 75 100
 110 5.7 16.1 48.2#
 77 0.0 24.5 36.7#

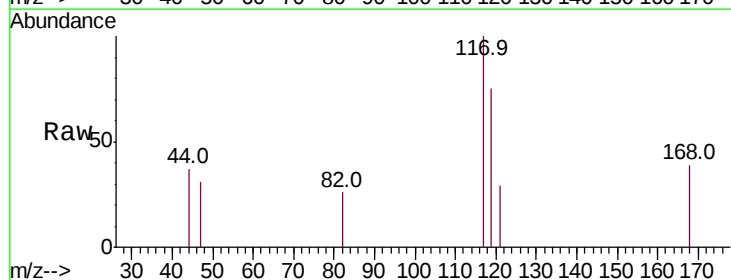


Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VU0

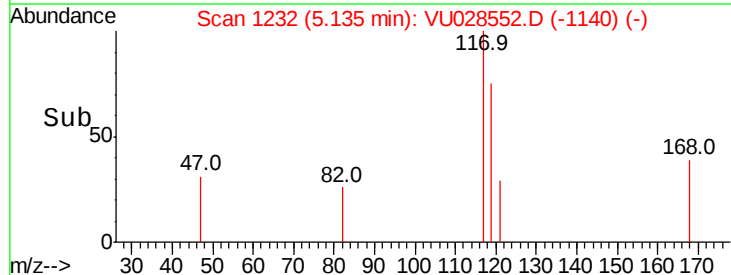
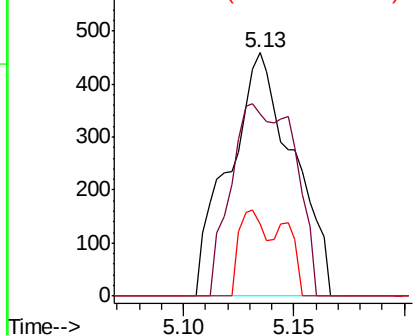


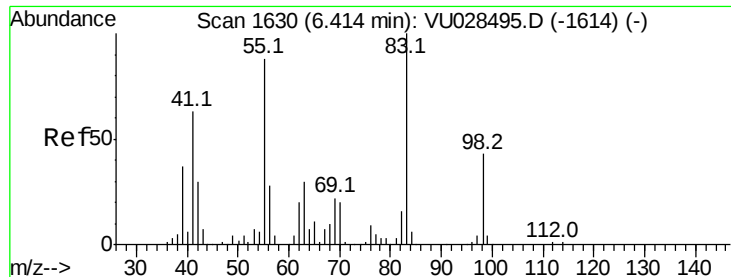
#38
 Carbon Tetrachloride
 Concen: 0.617 ug/l
 RT: 5.13 min Scan# 1232
 Delta R.T. -0.00 min
 Lab File: VU028552.D
 Acq: 10 Dec 2018 15:37

Tgt Ion: 117 Resp: 923
 Ion Ratio Lower Upper
 117 100
 119 74.9 77.6 116.4#
 121 29.4 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





#39

Methylcyclohexane

Concen: 3.796 ug/l

RT: 6.19 min Scan# 1559

Delta R.T. -0.23 min

Lab File: VU028552.D

Acq: 10 Dec 2018 15:37

Instrument :

MSVOA_U

ClientSampleId :

RE-122D1-20181206

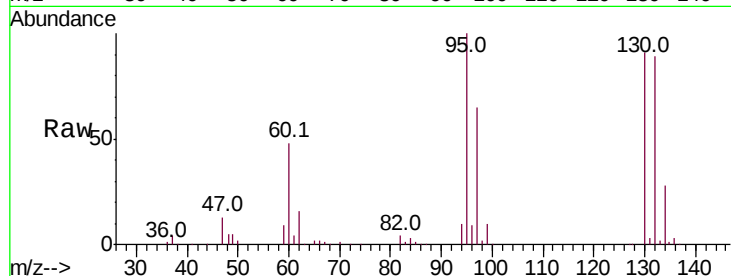
Tot Ion: 83 Resp: 8597

Ion Ratio Lower Upper

83 100

55 0.0 70.2 105.2#

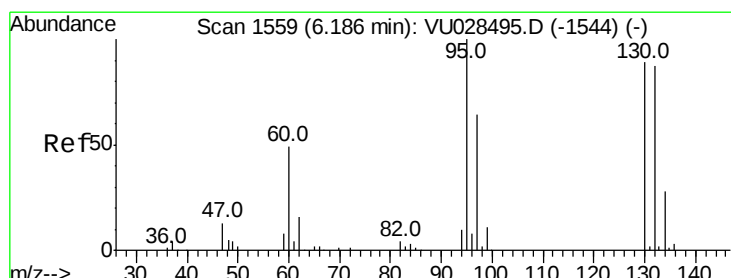
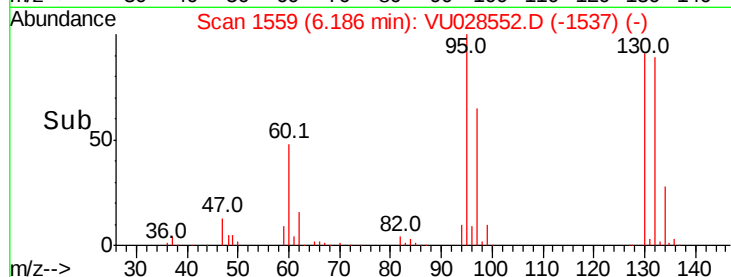
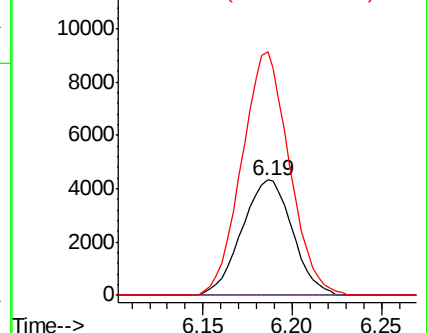
98 211.1 34.2 51.4#



Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



#44

Trichloroethene

Concen: 532.563 ug/l

RT: 6.19 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VU028552.D

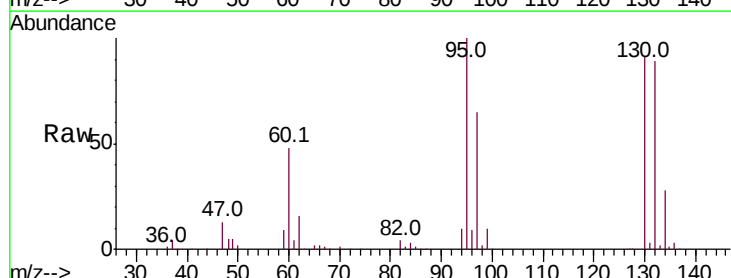
Acq: 10 Dec 2018 15:37

Tgt Ion:130 Resp: 647486

Ion Ratio Lower Upper

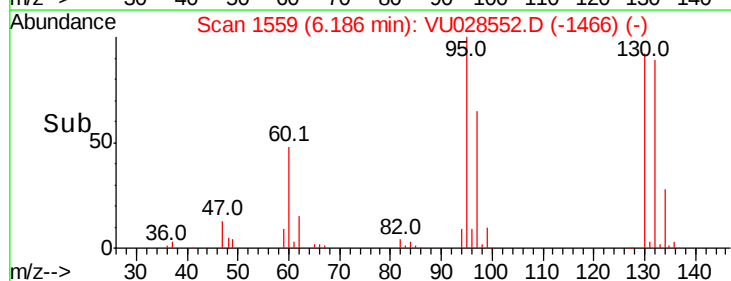
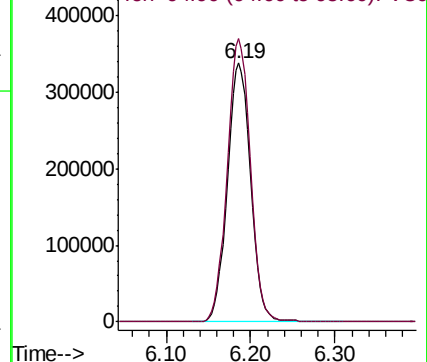
130 100

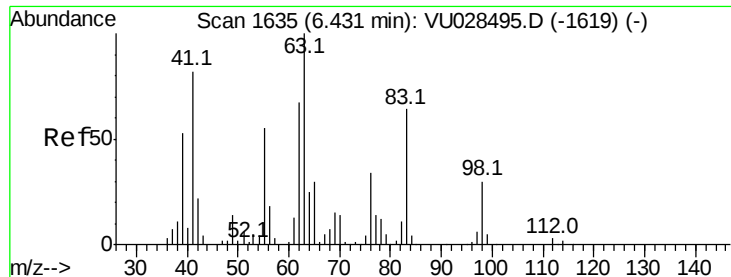
95 109.4 0.0 224.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VU0

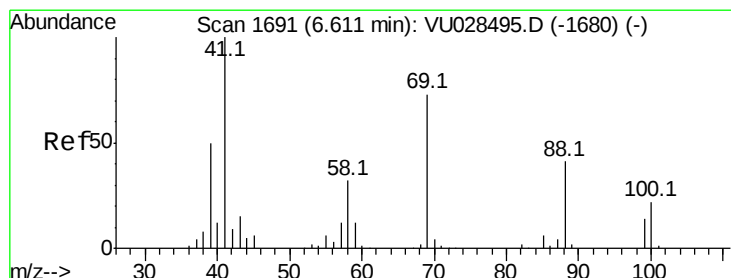
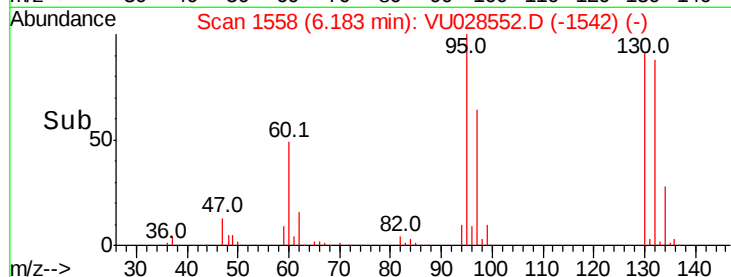
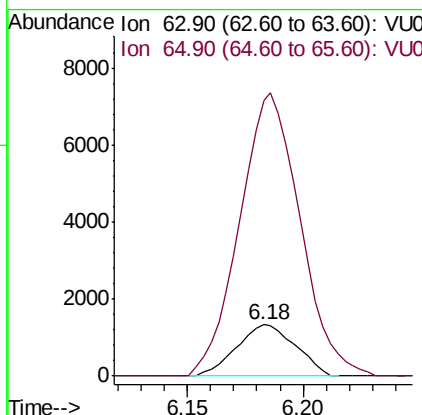
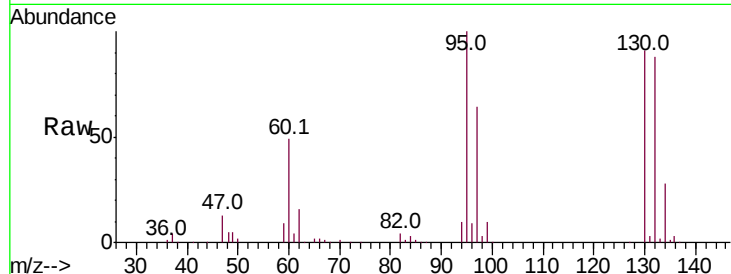




#45
 1,2-Dichloropropane
 Concen: 1.541 ug/l
 RT: 6.18 min Scan# 1558
 Delta R.T. -0.25 min
 Lab File: VU028552.D
 Acq: 10 Dec 2018 15:37

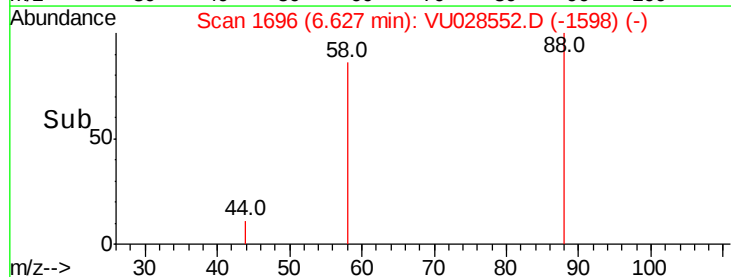
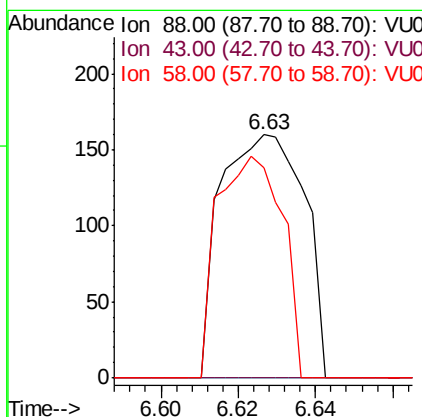
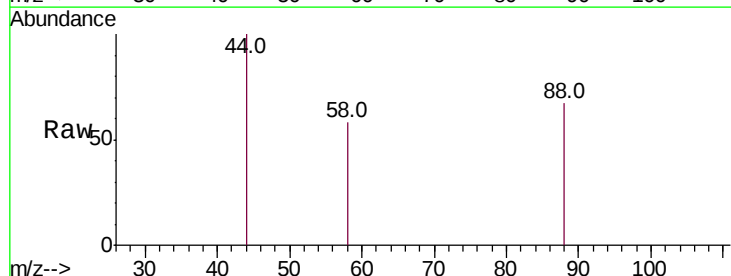
Instrument :
 MSVOA_U
 ClientSampleId :
 RE-122D1-20181206

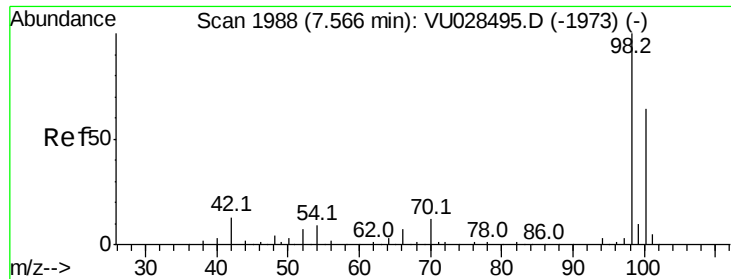
Tot Ion: 63 Resp: 2369
 Ion Ratio Lower Upper
 63 100
 65 539.4 24.2 36.4#



#49
 1,4-Dioxane
 Concen: 8.052 ug/l
 RT: 6.63 min Scan# 1696
 Delta R.T. 0.02 min
 Lab File: VU028552.D
 Acq: 10 Dec 2018 15:37

Tgt Ion: 88 Resp: 240
 Ion Ratio Lower Upper
 88 100
 43 0.0 30.9 46.3#
 58 70.4 62.4 93.6





#50

Toluene-d8

Concen: 53.252 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VU028552.D

Acq: 10 Dec 2018 15:37

Instrument :

MSVOA_U

ClientSampleId :

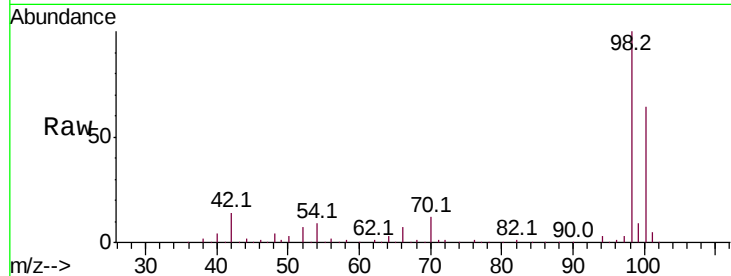
RE-122D1-20181206

Tot Ion: 98 Resp: 224910

Ion Ratio Lower Upper

98 100

100 63.3 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VU028495.D (-1973) (-)

Ion 100.00 (99.70 to 100.70): VU028495.D (-1973) (-)

7.57

150000

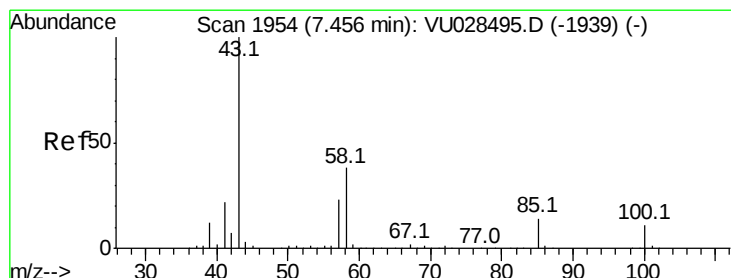
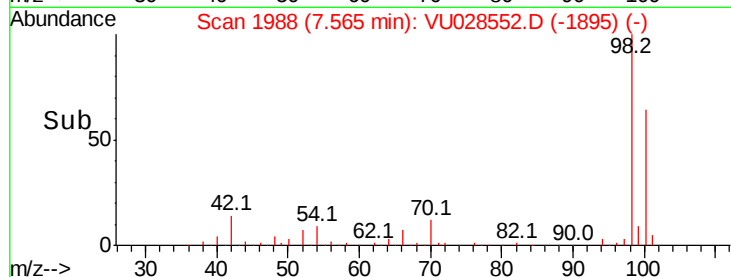
100000

50000

0

7.50 7.55 7.60 7.65 7.70

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.457 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. 0.11 min

Lab File: VU028552.D

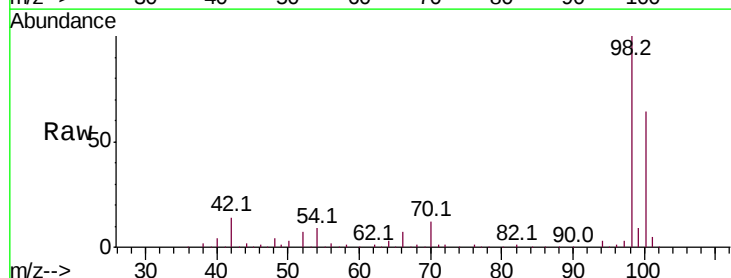
Acq: 10 Dec 2018 15:37

Tgt Ion: 43 Resp: 1093

Ion Ratio Lower Upper

43 100

58 184.4 30.2 45.2#



Abundance Ion 43.00 (42.70 to 43.70): VU028495.D (-1939) (-)

Ion 58.00 (57.70 to 58.70): VU028495.D (-1939) (-)

7.57

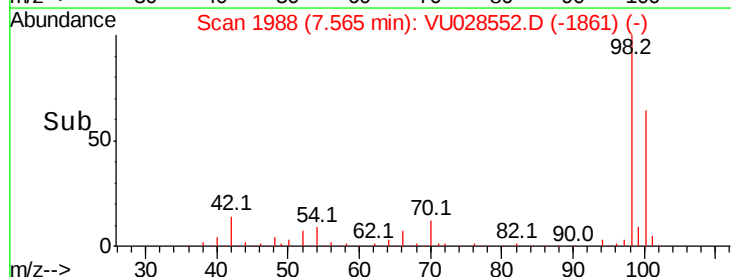
1000

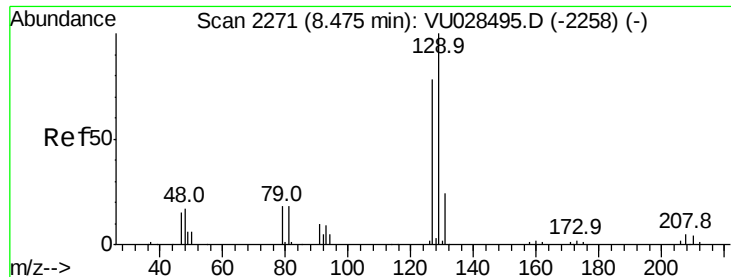
500

0

7.55 7.57 7.59 7.61

Time-->





#60

Dibromochloromethane

Concen: 1.506 ug/l

RT: 8.23 min Scan# 2195

Delta R.T. -0.24 min

Lab File: VU028552.D

Acq: 10 Dec 2018 15:37

Instrument :

MSVOA_U

ClientSampleId :

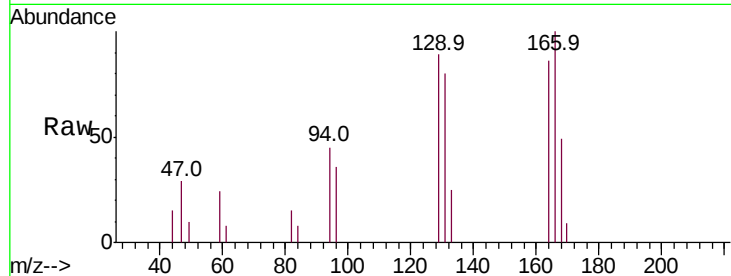
RE-122D1-20181206

Tot Ion:129 Resp: 1876

Ion Ratio Lower Upper

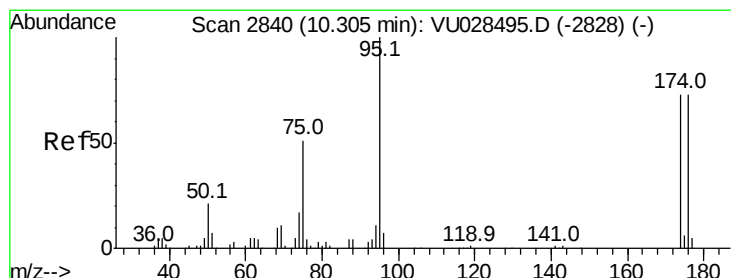
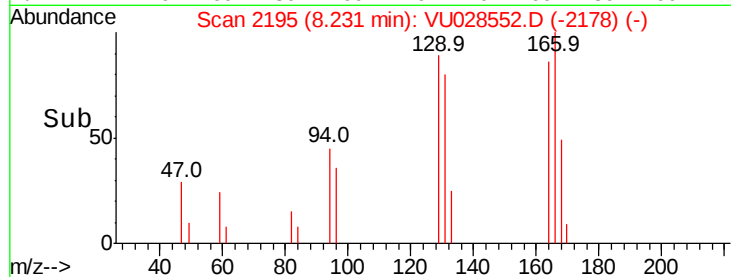
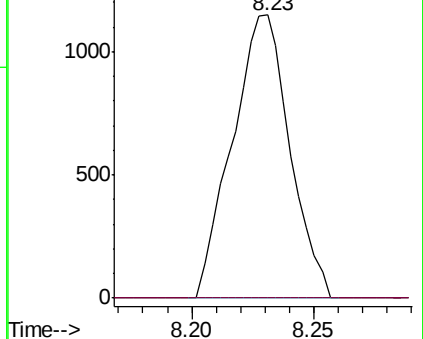
129 100

127 0.0 39.1 117.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 50.782 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.00 min

Lab File: VU028552.D

Acq: 10 Dec 2018 15:37

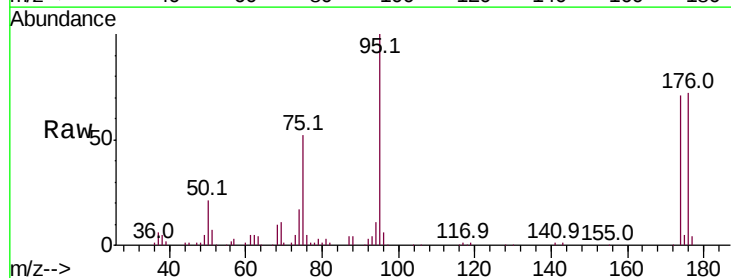
Tgt Ion: 95 Resp: 80165

Ion Ratio Lower Upper

95 100

174 74.2 0.0 150.4

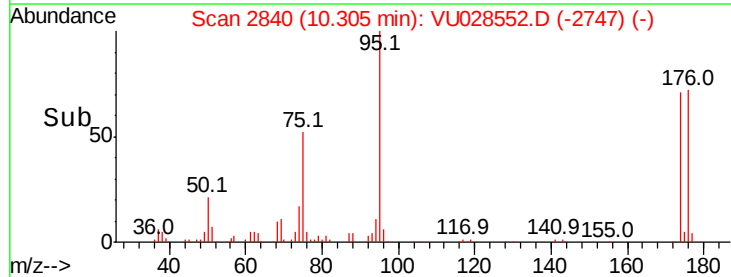
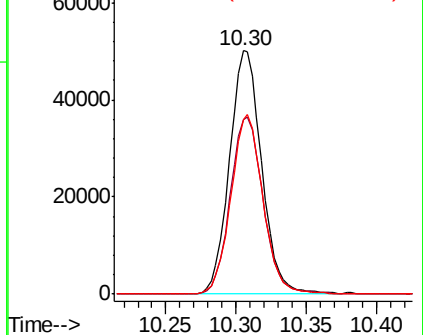
176 73.4 0.0 145.2

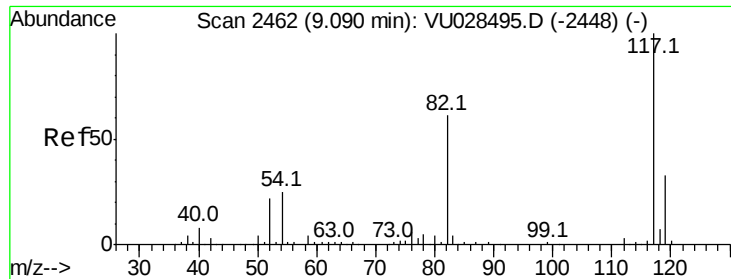


Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

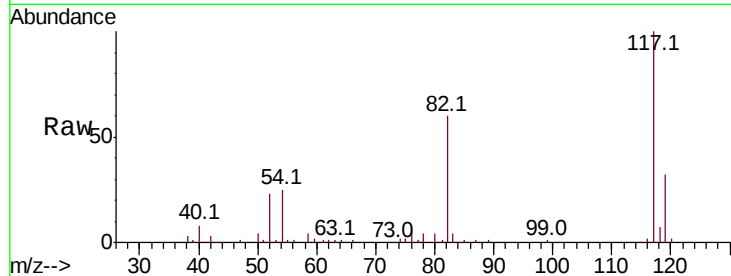




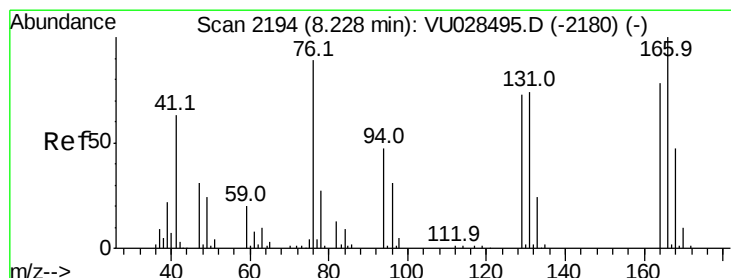
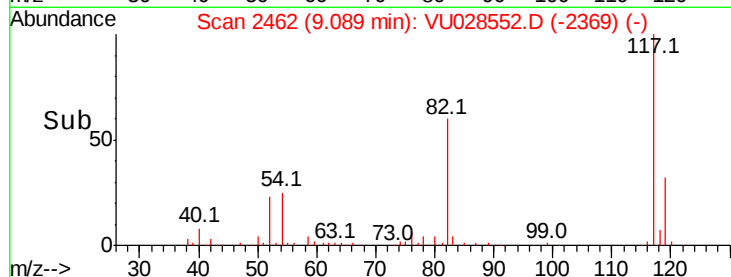
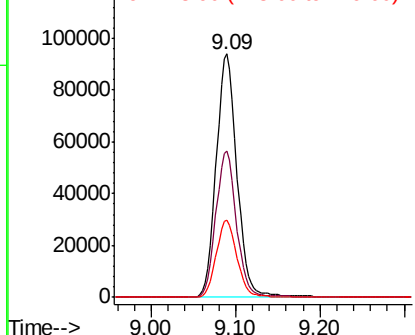
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028552.D
Acq: 10 Dec 2018 15:37

Instrument :
MSVOA_U
ClientSampleId :
RE-122D1-20181206

Tot Ion:117 Resp: 161015
Ion Ratio Lower Upper
117 100
82 60.3 48.9 73.3
119 31.5 26.2 39.4

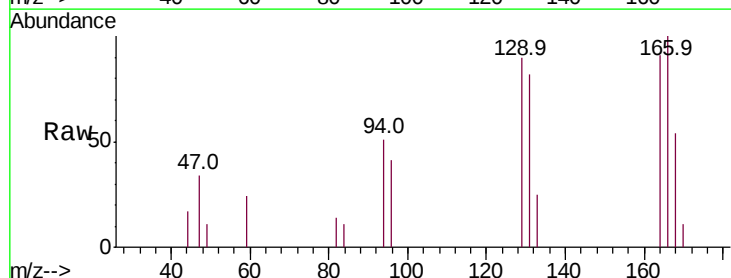


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU
Ion 118.90 (118.60 to 119.60): V

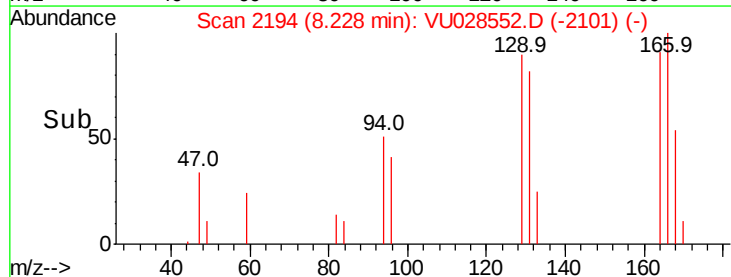
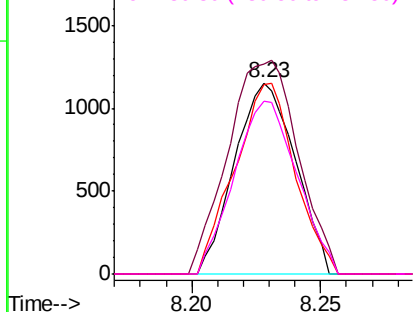


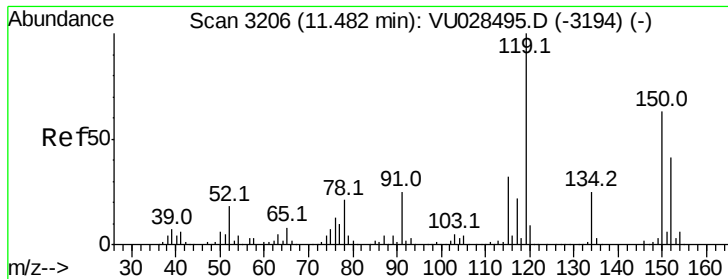
#64
Tetrachloroethene
Concen: 1.764 ug/l
RT: 8.23 min Scan# 2194
Delta R.T. -0.00 min
Lab File: VU028552.D
Acq: 10 Dec 2018 15:37

Tgt Ion:164 Resp: 1895
Ion Ratio Lower Upper
164 100
166 110.0 101.9 152.9
129 99.5 74.9 112.3
131 90.5 75.4 113.0



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3206

Delta R.T. -0.00 min

Lab File: VU028552.D

Acq: 10 Dec 2018 15:37

Instrument :

MSVOA_U

ClientSampleId :

RE-122D1-20181206

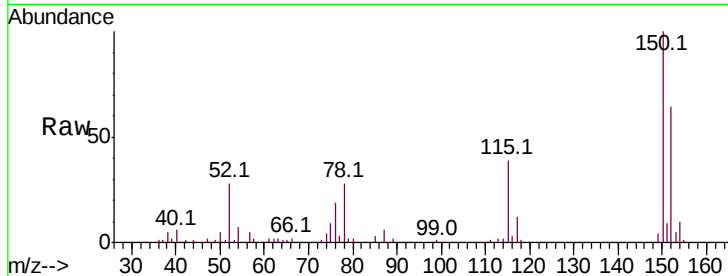
Tot Ion:152 Resp: 74455

Ion Ratio Lower Upper

152 100

115 61.6 42.7 128.1

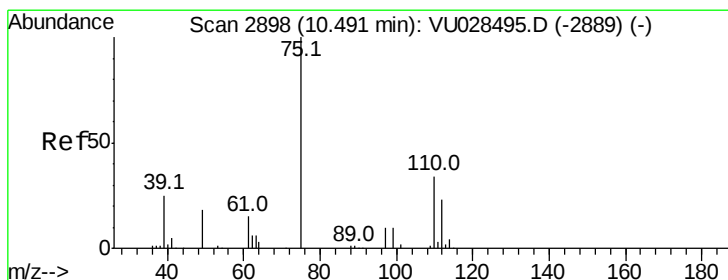
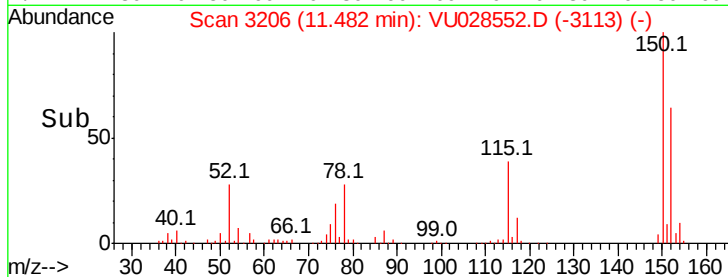
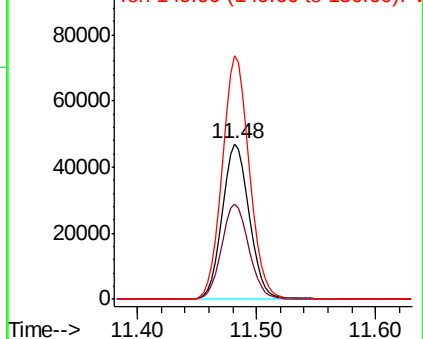
150 156.3 0.0 346.0



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: 22.048 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU028552.D

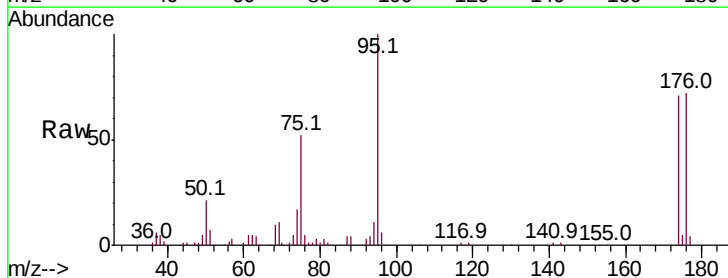
Acq: 10 Dec 2018 15:37

Tgt Ion: 75 Resp: 41918

Ion Ratio Lower Upper

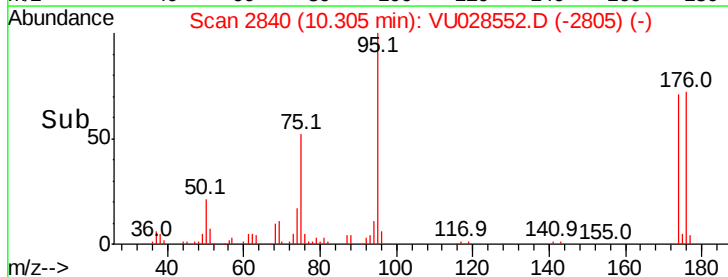
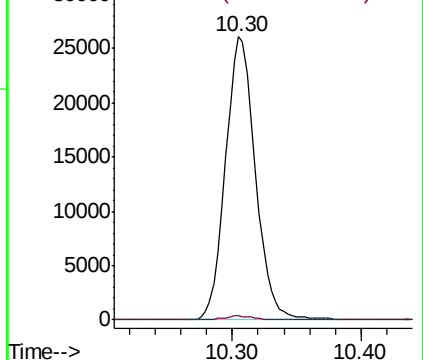
75 100

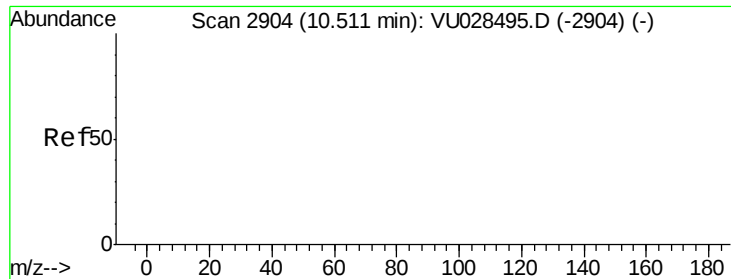
77 1.2 20.8 62.4#



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: 54.165 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU028552.D

Acq: 10 Dec 2018 15:37

Instrument :

MSVOA_U

ClientSampleId :

RE-122D1-20181206

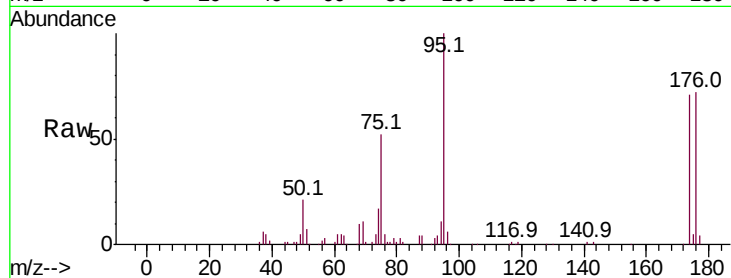
Tot Ion: 75 Resp: 41918

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

