

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111418\
 Data File : VU028144.D
 Acq On : 15 Nov 2018 01:19
 Operator : MD/SY
 Sample : J5943-06
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 H0FH5

Quant Time: Nov 15 06:18:27 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR111418WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Nov 15 06:14:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	134021	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	129212	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	60348	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	47923	4.31	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	86.20%
7) Chloroethane-d5	1.68	69	40504	4.59	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	91.80%
11) 1,1-Dichloroethene-d2	2.28	63	70101	3.37	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	67.40%
20) 2-Butanone-d5	4.22	46	177403	55.00	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	110.00%
24) Chloroform-d	4.65	84	84993	4.81	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.20%
26) 1,2-Dichloroethane-d4	5.31	65	49893	5.05	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.00%
32) Benzene-d6	5.34	84	178100	4.80	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.00%
36) 1,2-Dichloropropane-d6	6.33	67	66437	5.01	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.20%
41) Toluene-d8	7.57	98	158059	4.58	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.60%
43) trans-1,3-Dichloropropene-	7.85	79	19456	4.11	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	82.20%
46) 2-Hexanone-d5	8.31	63	140493	51.97	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	103.94%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	47661	5.08	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	101.60%
64) 1,2-Dichlorobenzene-d4	11.86	152	55065	4.88	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	97.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.40	62	7680	0.535	ug/L	85
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	594	0.068	ug/L #	20
12) 1,1-Dichloroethene	2.27	96	495	0.056	ug/L #	1
13) Acetone	2.36	43	5818	2.678	ug/L	96
18) trans-1,2-Dichloroethene	2.98	96	4857	0.513	ug/L	95
19) 1,1-Dichloroethane	3.44	63	2451	0.123	ug/L #	89
22) cis-1,2-Dichloroethene	4.23	96	11127	1.065	ug/L	96
33) Benzene	5.39	78	7299	0.168	ug/L	100
34) Trichloroethene	6.20	95	1911	0.178	ug/L	95
35) Methylcyclohexane	6.33	83	13242	0.716	ug/L #	19
37) 1,2-Dichloropropane	6.33	63	6588	0.547	ug/L #	92
39) cis-1,3-Dichloropropene	7.23	75	1457	0.090	ug/L #	66
42) Toluene	7.64	91	2192	0.049	ug/L	85
45) 1,1,2-Trichloroethane	8.04	97	1148	0.158	ug/L #	14
47) Tetrachloroethene	8.22	164	786	0.090	ug/L	90
48) 2-Hexanone	8.38	43	2036	0.345	ug/L #	81
49) Dibromochloromethane	8.23	129	652	0.084	ug/L #	11

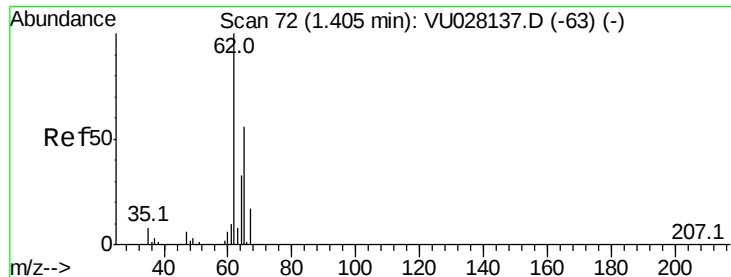
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111418\
Data File : VU028144.D
Acq On : 15 Nov 2018 01:19
Operator : MD/SY
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Quant Time: Nov 15 06:18:27 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR111418WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Nov 15 06:14:20 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) Ethylbenzene	9.25	91	2891	0.059	ug/L	94
53) m,p-xylene	9.38	106	1638	0.092	ug/L	93
59) 1,2,3-Trichloropropane	11.48	75	9333	1.380	ug/L	89
66) 1,2-Dibromo-3-chloropropan	12.54	75	692	0.523	ug/L #	3
69) Naphthalene	13.74	128	2364	0.099	ug/L #	82

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



#5

Vinyl chloride

Concen: 0.535 ug/L

RT: 1.40 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU028144.D

Acq: 15 Nov 2018 01:19

Instrument :

MSVOA_U

ClientSampleId :

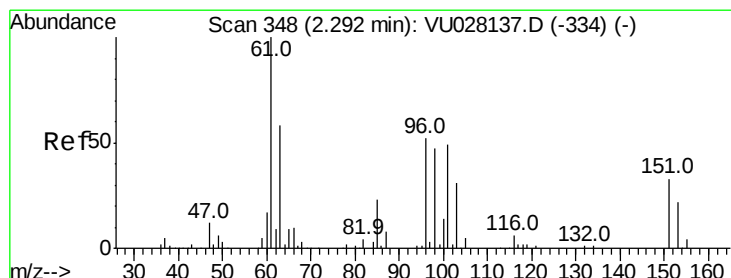
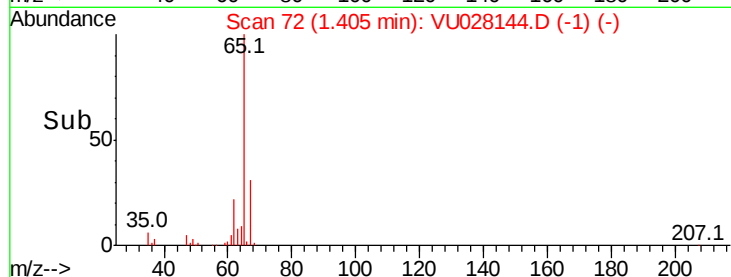
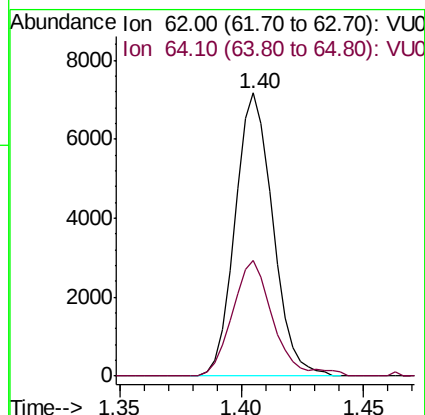
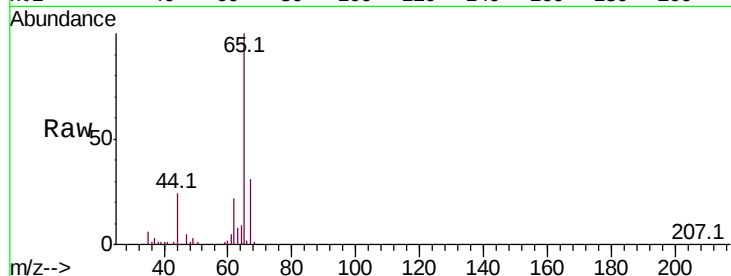
H0FH5

Tot Ion: 62 Resp: 7680

Ion Ratio Lower Upper

62 100

64 40.9 22.7 42.3



#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.068 ug/L

RT: 2.28 min Scan# 343

Delta R.T. -0.02 min

Lab File: VU028144.D

Acq: 15 Nov 2018 01:19

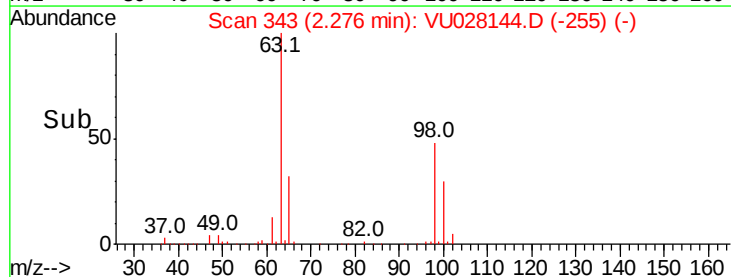
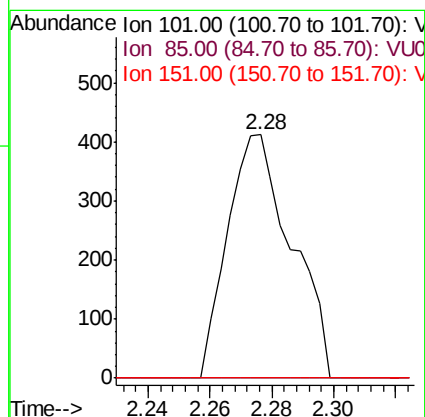
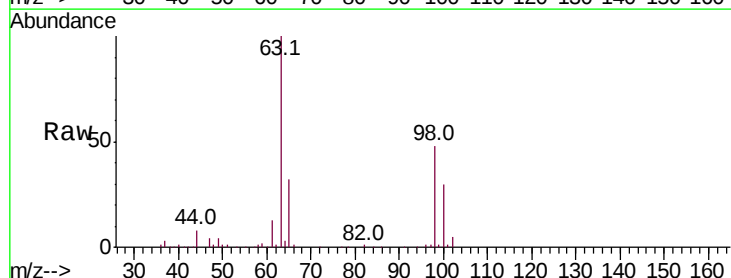
Tgt Ion: 101 Resp: 594

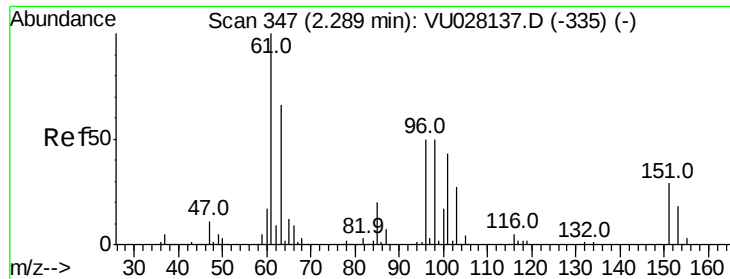
Ion Ratio Lower Upper

101 100

85 0.0 37.6 56.4#

151 0.0 58.2 87.2#





#12

1,1-Dichloroethene

Concen: 0.056 ug/L

RT: 2.27 min Scan# 342

Delta R.T. -0.02 min

Lab File: VU028144.D

Acq: 15 Nov 2018 01:19

Instrument :

MSVOA_U

ClientSampleId :

H0FH5

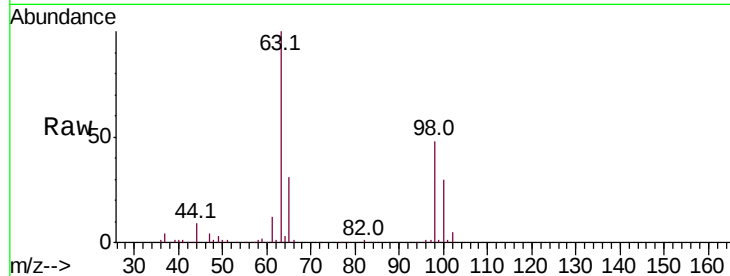
Tot Ion: 96 Resp: 495

Ion Ratio Lower Upper

96 100

61 1494.0 134.8 250.3#

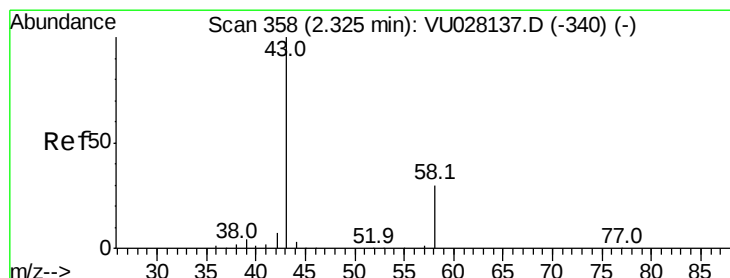
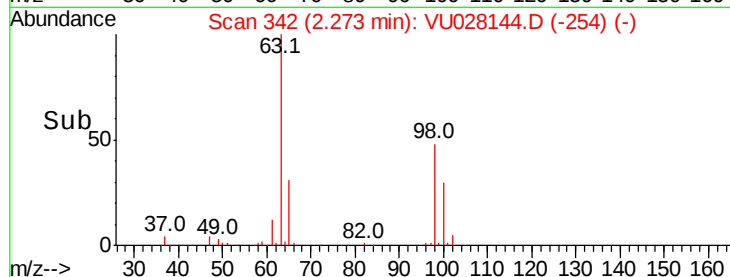
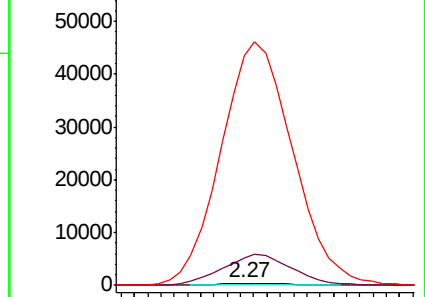
63 12409.1 100.1 185.9#



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0



#13

Acetone

Concen: 2.678 ug/L

RT: 2.36 min Scan# 369

Delta R.T. 0.04 min

Lab File: VU028144.D

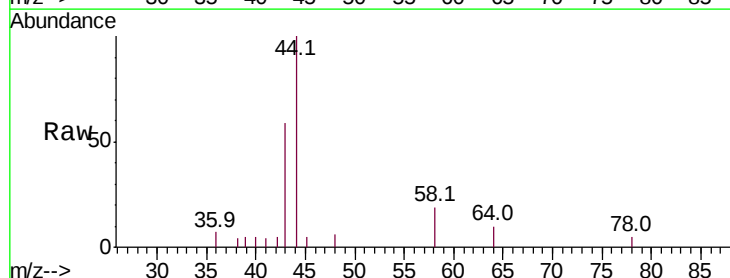
Acq: 15 Nov 2018 01:19

Tgt Ion: 43 Resp: 5818

Ion Ratio Lower Upper

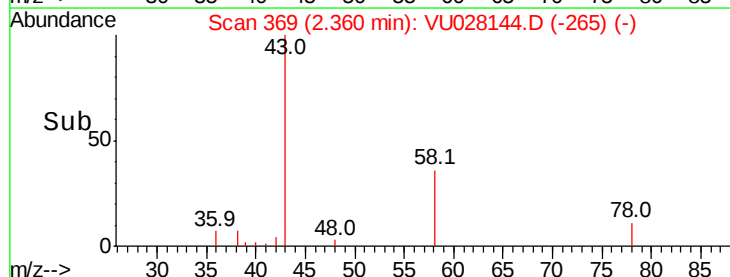
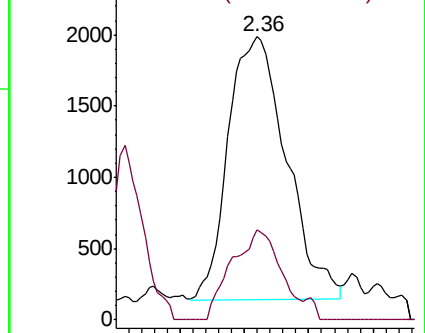
43 100

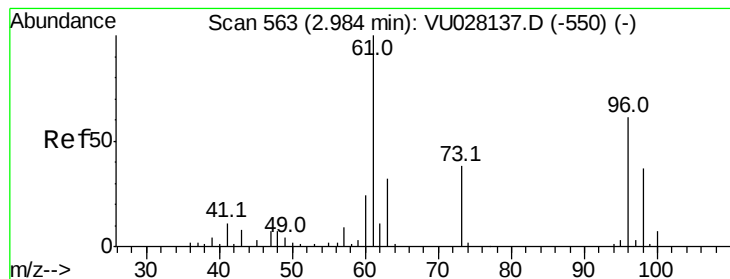
58 28.5 0.0 61.6



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0





#18

trans-1,2-Dichloroethene

Concen: 0.513 ug/L

RT: 2.98 min Scan# 562

Delta R.T. -0.00 min

Lab File: VU028144.D

Acq: 15 Nov 2018 01:19

Instrument :

MSVOA_U

ClientSampleId :

H0FH5

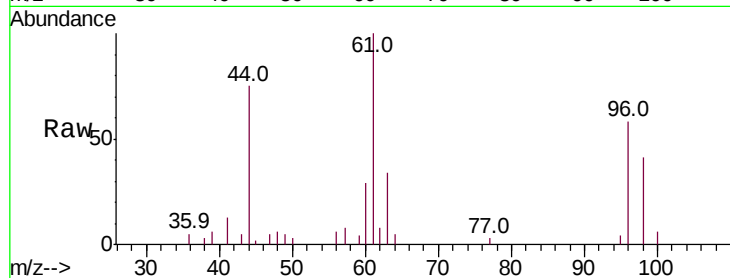
Tot Ion: 96 Resp: 4857

Ion Ratio Lower Upper

96 100

61 173.7 118.5 220.1

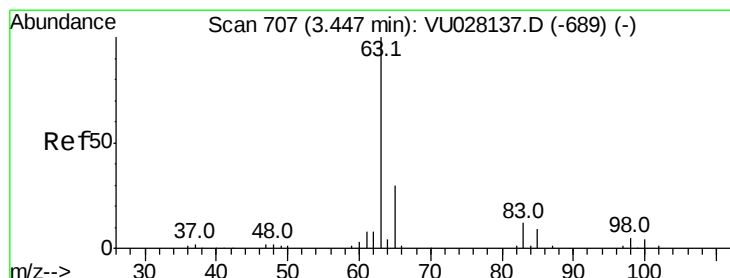
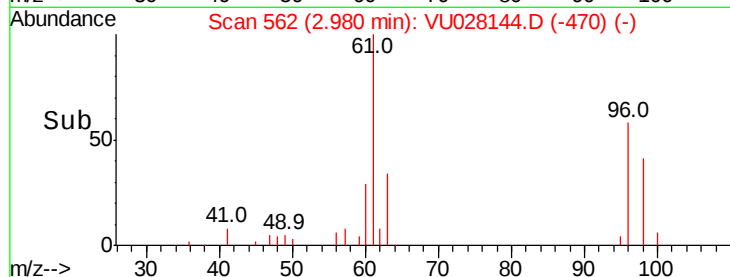
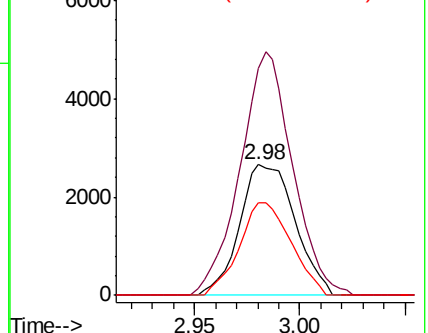
98 71.0 44.9 83.5



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 97.95 (97.65 to 98.65): VU0



#19

1,1-Dichloroethane

Concen: 0.123 ug/L

RT: 3.44 min Scan# 705

Delta R.T. -0.01 min

Lab File: VU028144.D

Acq: 15 Nov 2018 01:19

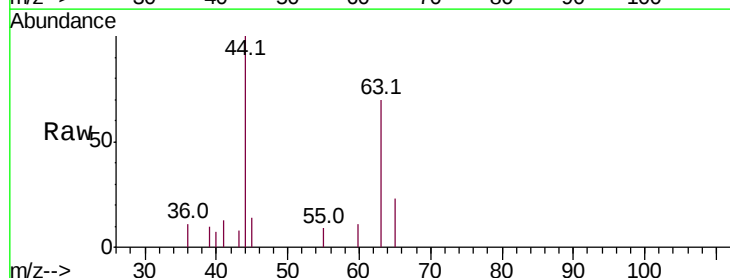
Tgt Ion: 63 Resp: 2451

Ion Ratio Lower Upper

63 100

65 32.8 22.2 41.2

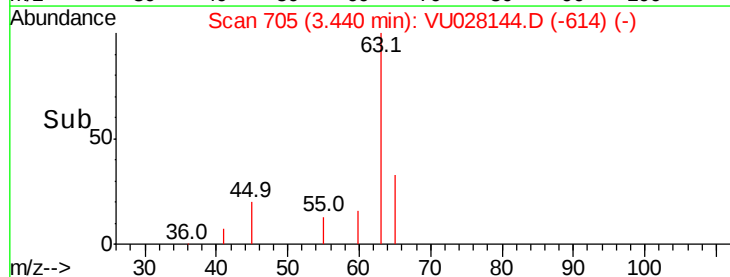
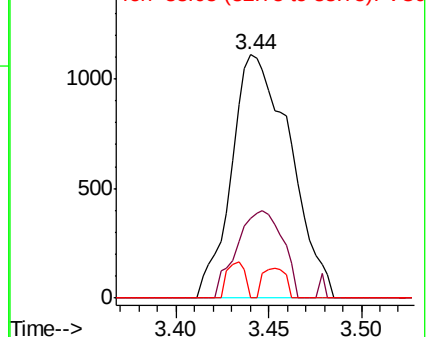
83 0.0 8.9 16.5#

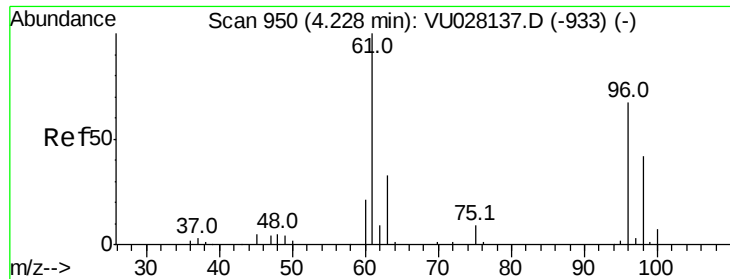


Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 65.10 (64.80 to 65.80): VU0

Ion 83.05 (82.75 to 83.75): VU0



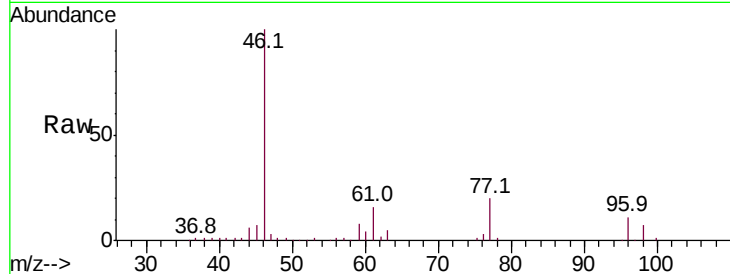


#22

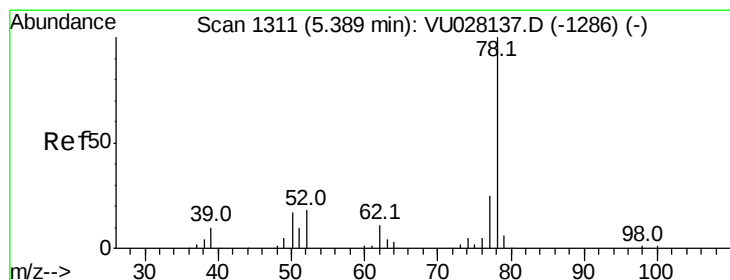
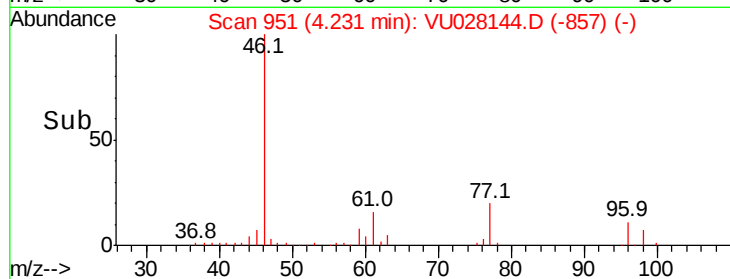
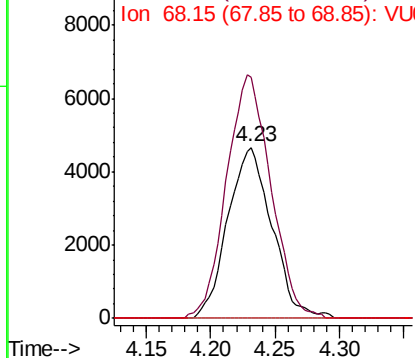
cis-1,2-Dichloroethene
Concen: 1.065 ug/L
RT: 4.23 min Scan# 951
Delta R.T. 0.00 min
Lab File: VU028144.D
Acq: 15 Nov 2018 01:19

Instrument :
MSVOA_U
ClientSampleId :
H0FH5

Tot Ion: 96 Resp: 11127
Ion Ratio Lower Upper
96 100
61 140.5 101.8 189.0
68 0.0 0.0 0.0



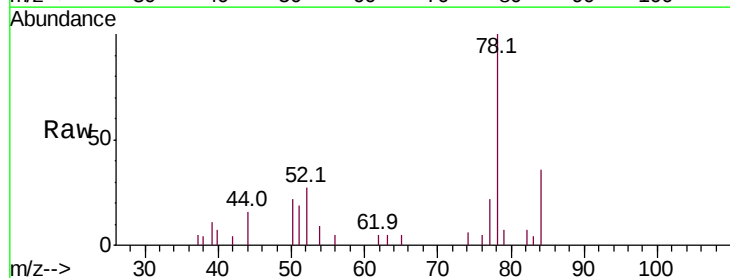
Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 68.15 (67.85 to 68.85): VU0



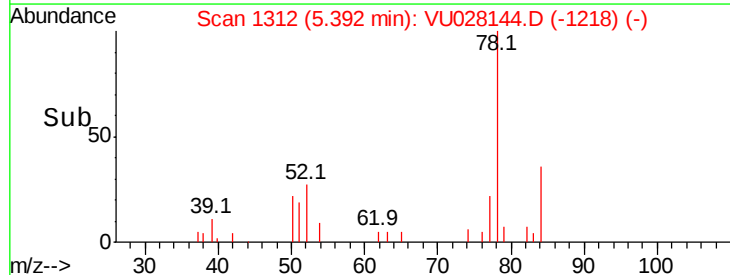
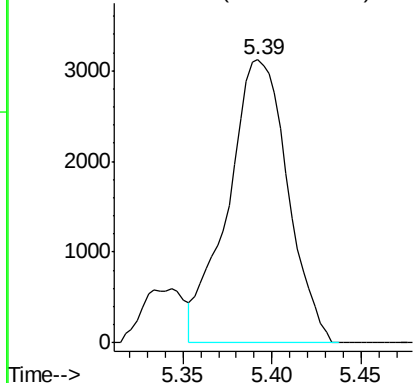
#33

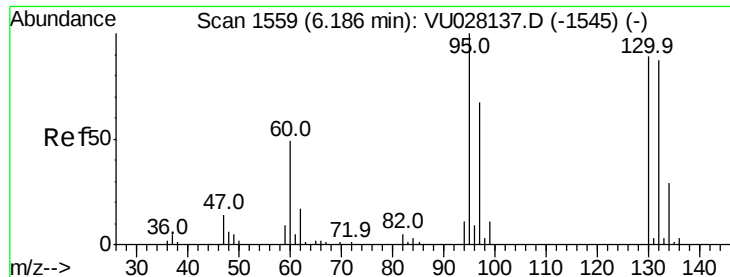
Benzene
Concen: 0.168 ug/L
RT: 5.39 min Scan# 1312
Delta R.T. 0.00 min
Lab File: VU028144.D
Acq: 15 Nov 2018 01:19

Tgt Ion: 78 Resp: 7299



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 0.178 ug/L

RT: 6.20 min Scan# 1562

Delta R.T. 0.01 min

Lab File: VU028144.D

Acq: 15 Nov 2018 01:19

Instrument :

MSVOA_U

ClientSampleId :

H0FH5

Tot Ion: 95 Resp: 1911

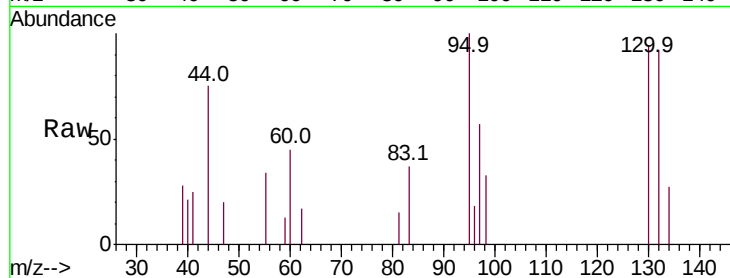
Ion Ratio Lower Upper

95 100

97 56.6 45.3 84.1

132 92.0 63.0 117.0

130 93.5 63.6 118.2

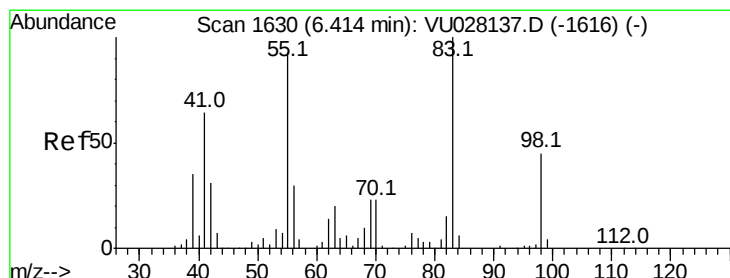
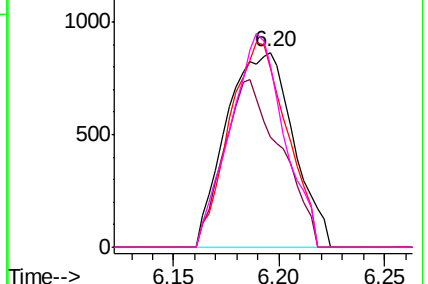
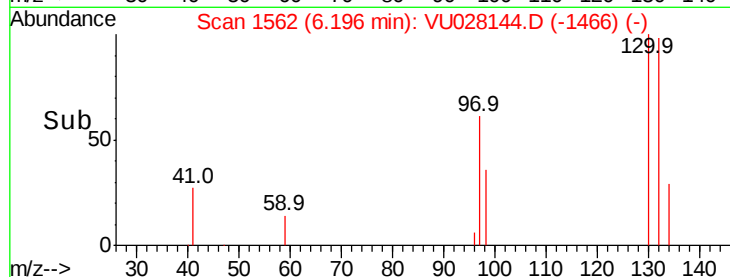


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 0.716 ug/L

RT: 6.33 min Scan# 1605

Delta R.T. -0.08 min

Lab File: VU028144.D

Acq: 15 Nov 2018 01:19

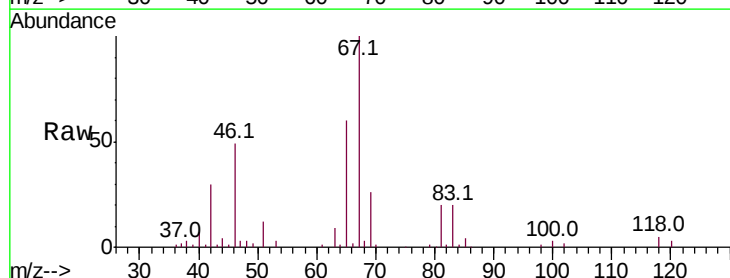
Tgt Ion: 83 Resp: 13242

Ion Ratio Lower Upper

83 100

55 4.2 69.0 103.4#

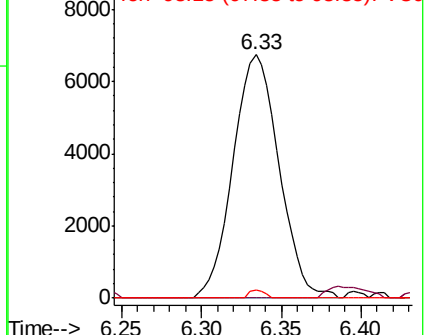
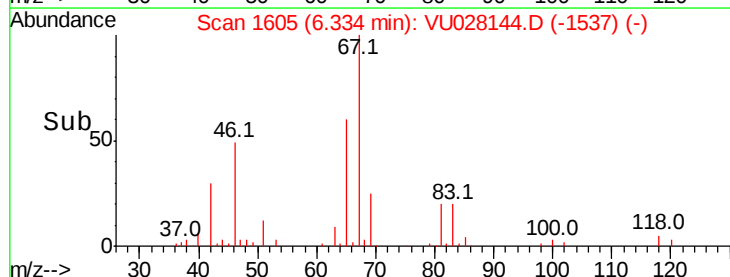
98 1.0 33.3 49.9#

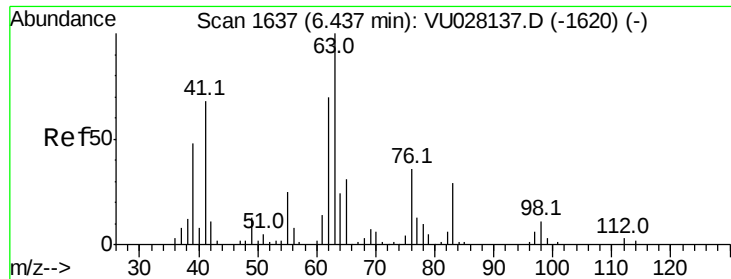


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 0.547 ug/L

RT: 6.33 min Scan# 1605

Delta R.T. -0.10 min

Lab File: VU028144.D

Acq: 15 Nov 2018 01:19

Instrument :

MSVOA_U

ClientSampleId :

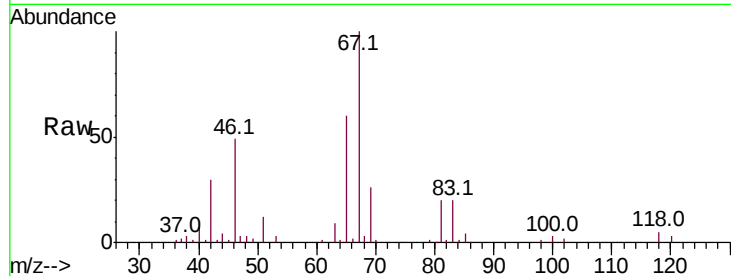
H0FH5

Tot Ion: 63 Resp: 6588

Ion Ratio Lower Upper

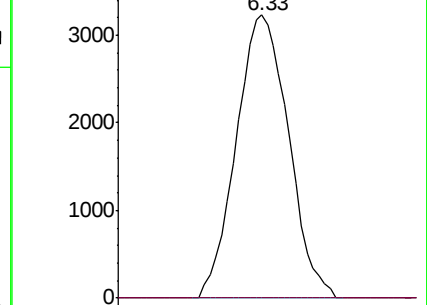
63 100

112 0.0 2.2 3.4#

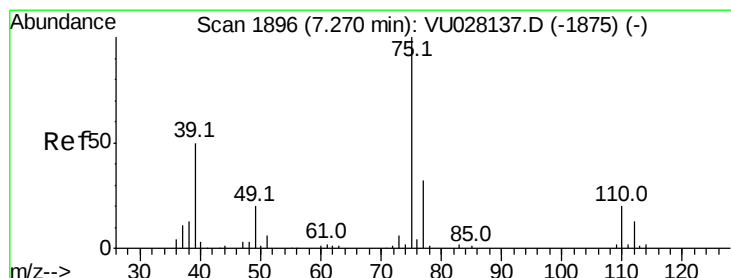
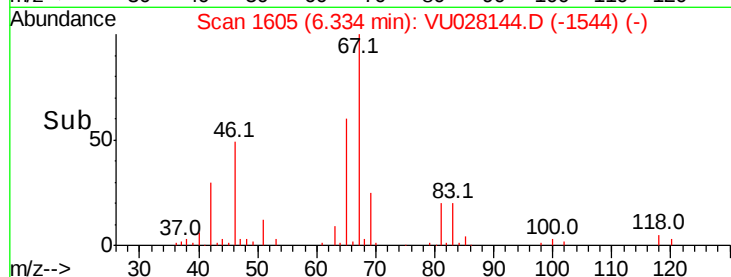


Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 112.10 (111.80 to 112.80): V



Time-->



#39

cis-1,3-Dichloropropene

Concen: 0.090 ug/L

RT: 7.23 min Scan# 1885

Delta R.T. -0.04 min

Lab File: VU028144.D

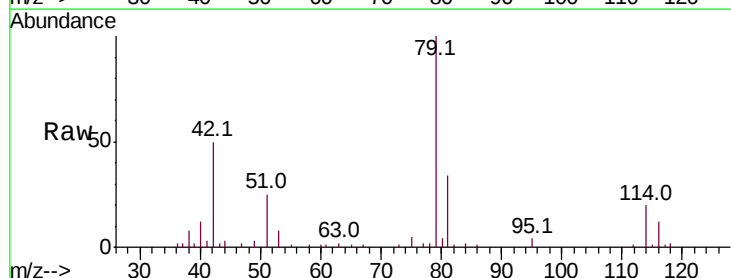
Acq: 15 Nov 2018 01:19

Tgt Ion: 75 Resp: 1457

Ion Ratio Lower Upper

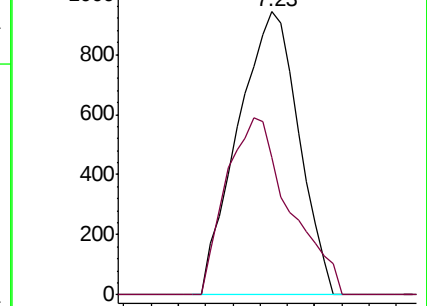
75 100

77 48.4 20.9 38.9#

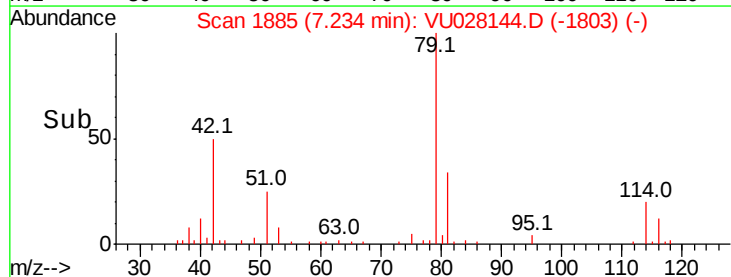


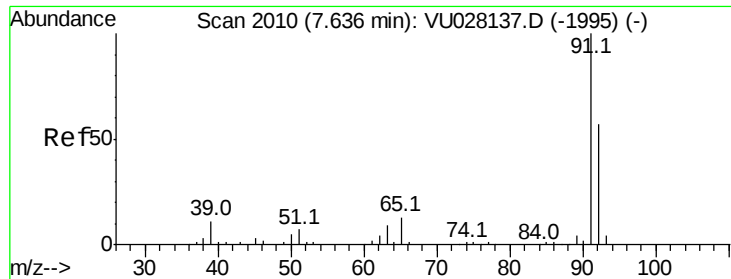
Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0



Time-->





#42

Toluene

Concen: 0.049 ug/L

RT: 7.64 min Scan# 2012

Delta R.T. 0.01 min

Lab File: VU028144.D

Acq: 15 Nov 2018 01:19

Instrument :

MSVOA_U

ClientSampled :

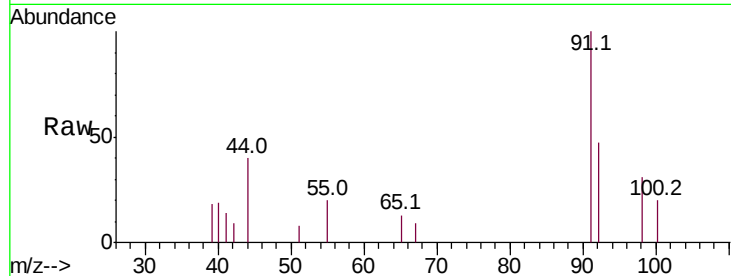
H0FH5

Tot Ion: 91 Resp: 2192

Ion Ratio Lower Upper

91 100

92 46.8 40.7 75.7



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0

7.64

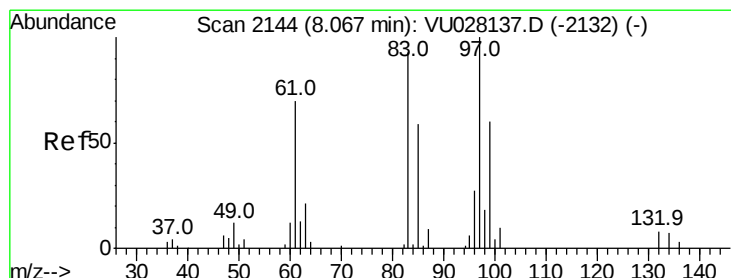
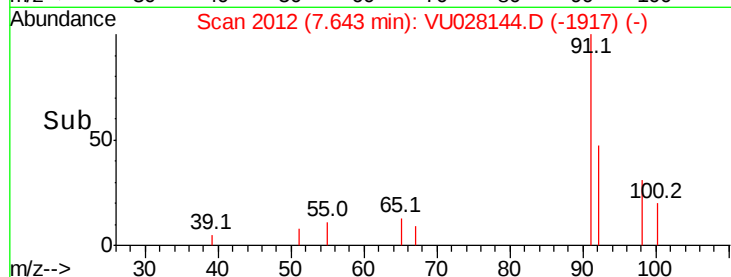
1500

1000

500

0

Time-->



#45

1,1,2-Trichloroethane

Concen: 0.158 ug/L

RT: 8.04 min Scan# 2136

Delta R.T. -0.03 min

Lab File: VU028144.D

Acq: 15 Nov 2018 01:19

Tgt Ion: 97 Resp: 1148

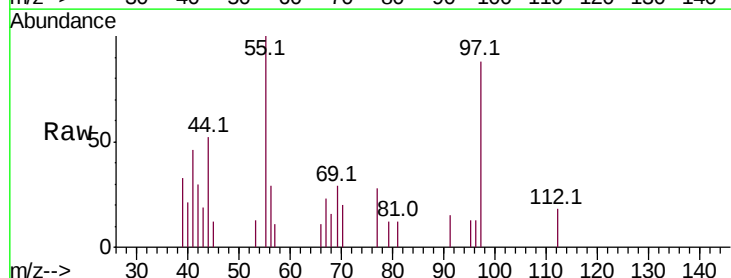
Ion Ratio Lower Upper

97 100

99 0.0 42.1 78.1#

83 0.0 63.7 118.3#

85 0.0 40.6 75.4#



Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

1200

1000

800

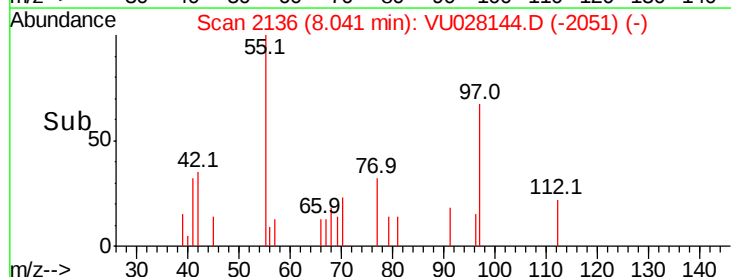
600

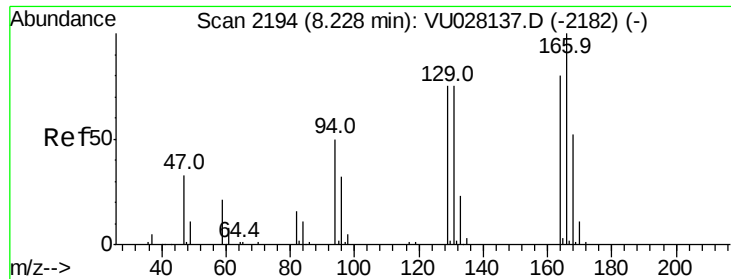
400

200

0

Time-->

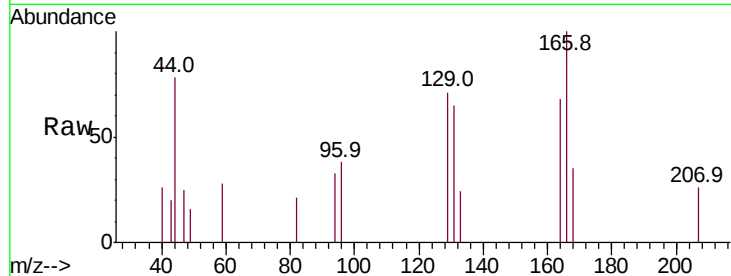




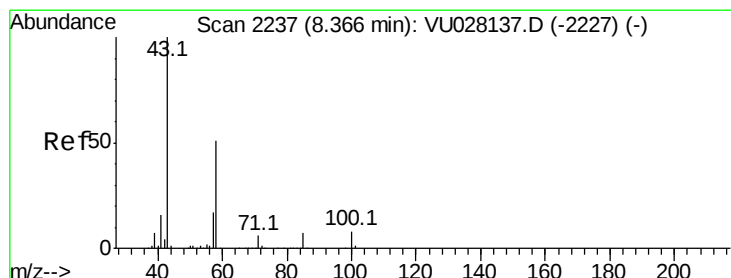
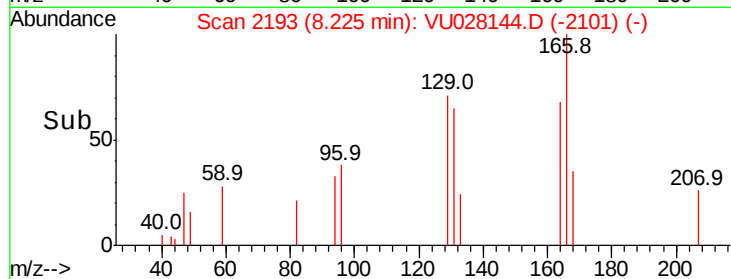
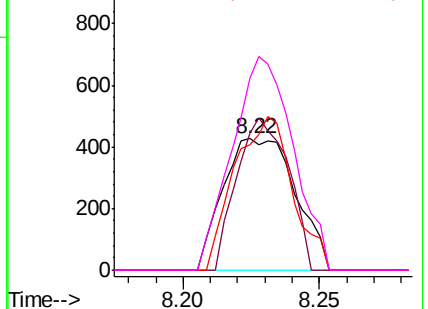
#47
Tetrachloroethene
Concen: 0.090 ug/L
RT: 8.22 min Scan# 2193
Delta R.T. -0.00 min
Lab File: VU028144.D
Acq: 15 Nov 2018 01:19

Instrument :
MSVOA_U
ClientSampled :
H0FH5

Tot Ion:164 Resp: 786
Ion Ratio Lower Upper
164 100
129 103.7 69.7 129.4
131 94.8 64.0 118.8
166 146.1 86.4 160.4

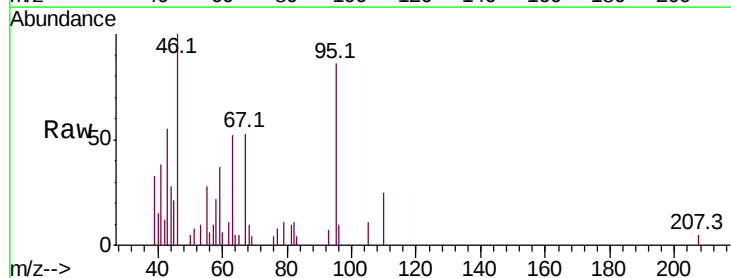


Abundance Ion 163.90 (163.60 to 164.60): V
Ion 128.95 (128.65 to 129.65): V
Ion 130.95 (130.65 to 131.65): V
Ion 165.90 (165.60 to 166.60): V

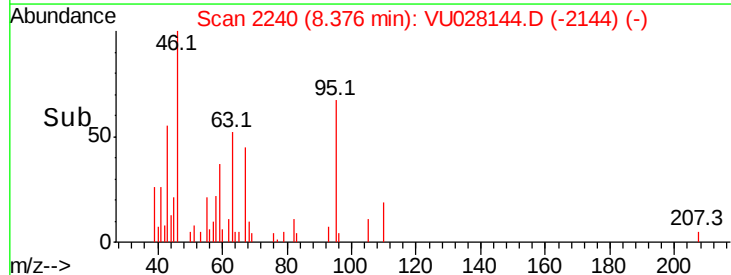
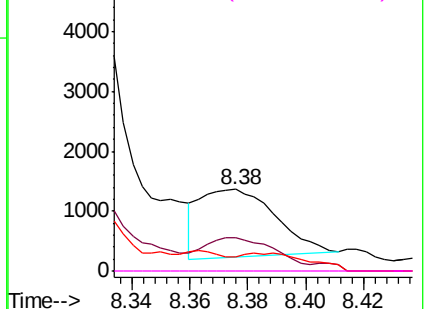


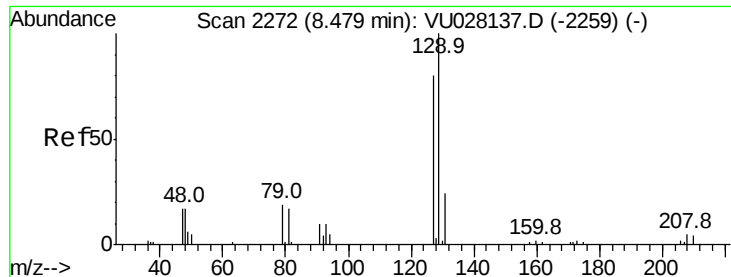
#48
2-Hexanone
Concen: 0.345 ug/L
RT: 8.38 min Scan# 2240
Delta R.T. 0.01 min
Lab File: VU028144.D
Acq: 15 Nov 2018 01:19

Tgt Ion: 43 Resp: 2036
Ion Ratio Lower Upper
43 100
58 36.4 41.7 62.5#
57 14.0 14.0 21.0#
100 0.0 7.2 10.8#



Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0





#49

Dibromochloromethane

Concen: 0.084 ug/L

RT: 8.23 min Scan# 2194

Delta R.T. -0.25 min

Lab File: VU028144.D

Acq: 15 Nov 2018 01:19

Instrument :

MSVOA_U

ClientSampled :

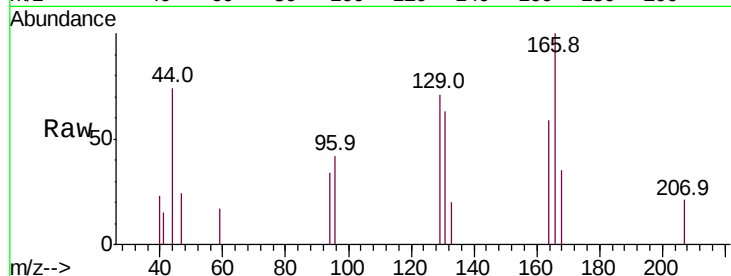
H0FH5

Tot Ion:129 Resp: 652

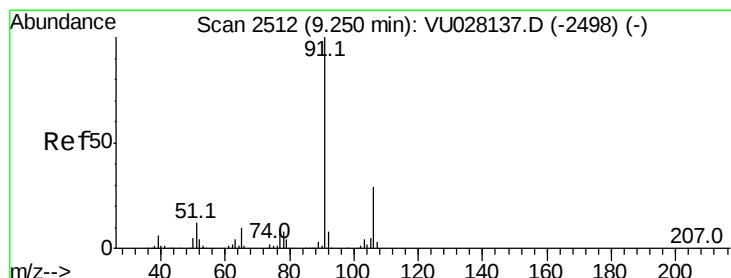
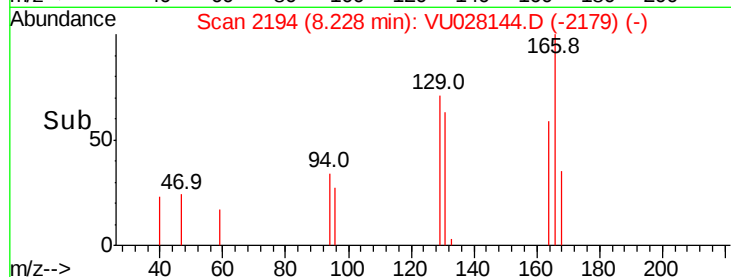
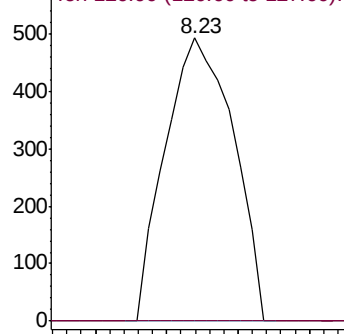
Ion Ratio Lower Upper

129 100

127 0.0 54.1 100.5#



Abundance Ion 128.95 (128.65 to 129.65): V



#52

Ethylbenzene

Concen: 0.059 ug/L

RT: 9.25 min Scan# 2512

Delta R.T. -0.00 min

Lab File: VU028144.D

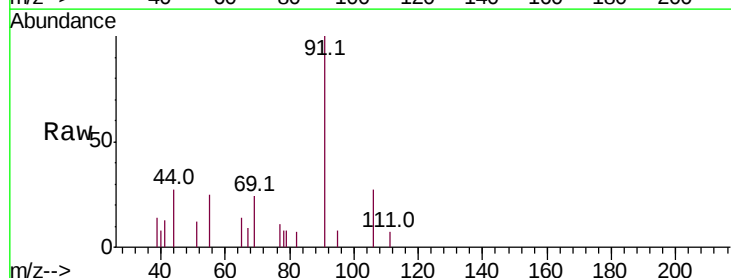
Acq: 15 Nov 2018 01:19

Tgt Ion: 91 Resp: 2891

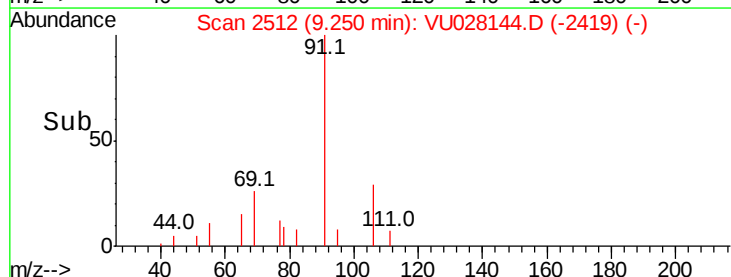
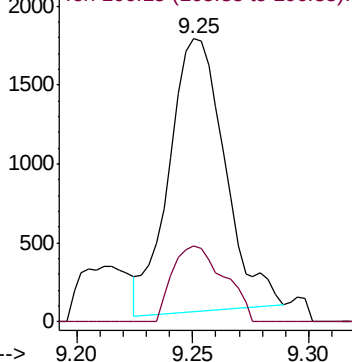
Ion Ratio Lower Upper

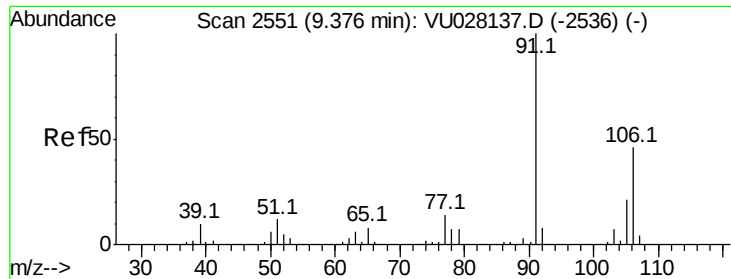
91 100

106 26.8 20.9 38.7



Abundance Ion 91.15 (90.85 to 91.85): VU0





#53

m,p-xylene

Concen: 0.092 ug/L

RT: 9.38 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VU028144.D

Acq: 15 Nov 2018 01:19

Instrument :

MSVOA_U

ClientSampleId :

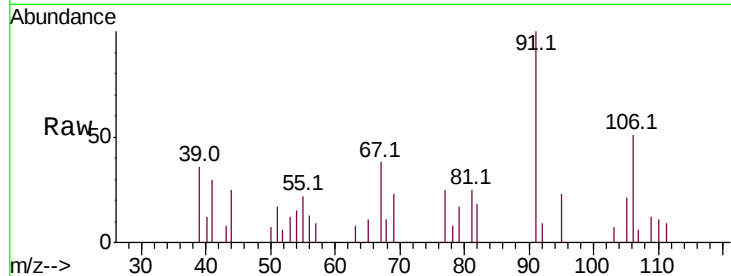
H0FH5

Tot Ion:106 Resp: 1638

Ion Ratio Lower Upper

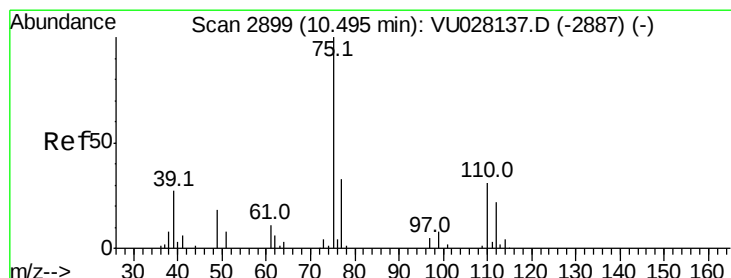
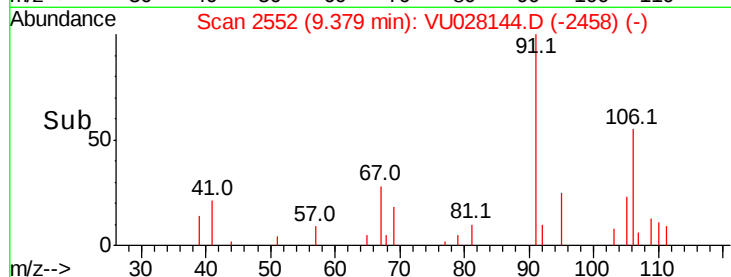
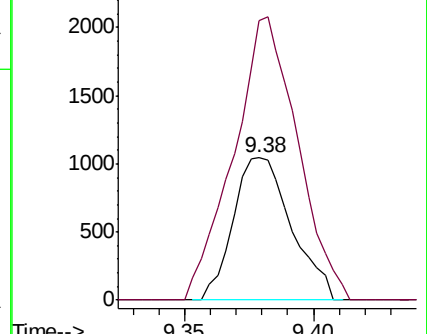
106 100

91 196.6 145.7 270.7



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#59

1,2,3-Trichloropropane

Concen: 1.380 ug/L

RT: 11.48 min Scan# 3207

Delta R.T. 0.99 min

Lab File: VU028144.D

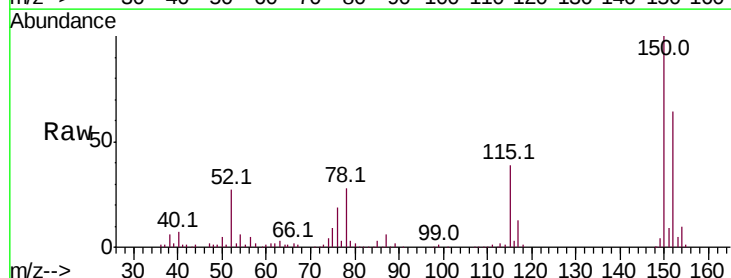
Acq: 15 Nov 2018 01:19

Tgt Ion: 75 Resp: 9333

Ion Ratio Lower Upper

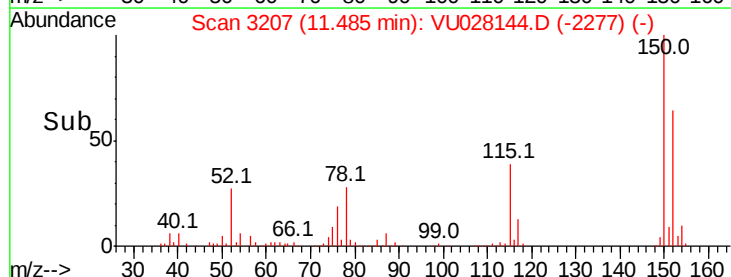
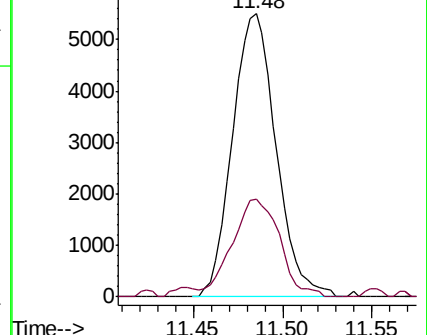
75 100

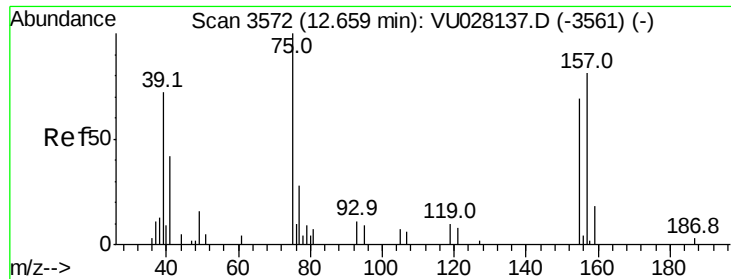
77 37.7 25.4 38.0



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

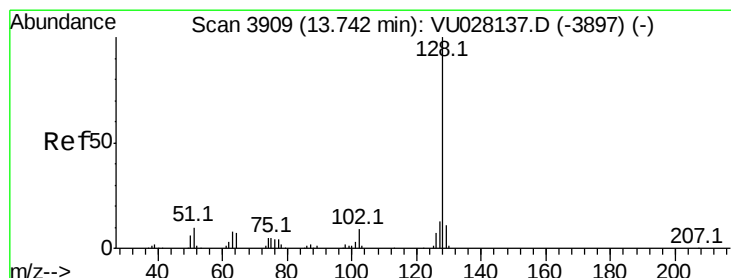
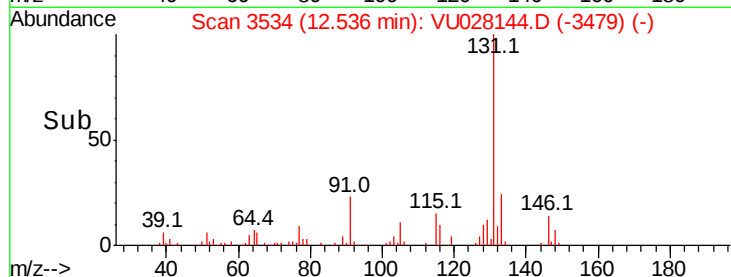
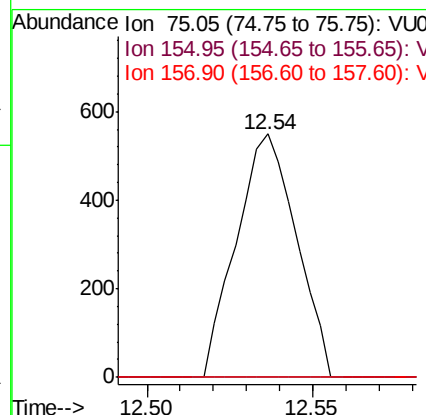
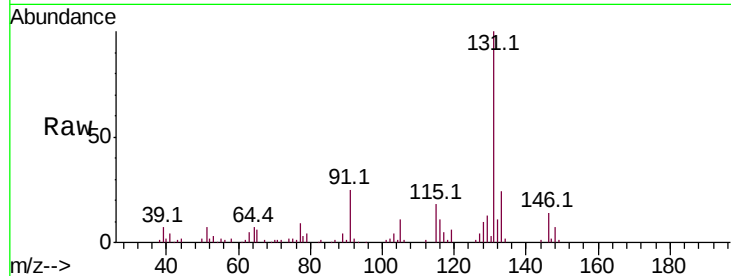




#66
 1,2-Dibromo-3-chloropropane
 Concen: 0.523 ug/L
 RT: 12.54 min Scan# 3534
 Delta R.T. -0.12 min
 Lab File: VU028144.D
 Acq: 15 Nov 2018 01:19

Instrument :
 MSVOA_U
 ClientSampleId :
 H0FH5

Tot Ion: 75 Resp: 692
 Ion Ratio Lower Upper
 75 100
 155 0.0 62.8 94.2#
 157 0.0 85.3 127.9#



#69
 Naphthalene
 Concen: 0.099 ug/L
 RT: 13.74 min Scan# 3909
 Delta R.T. -0.00 min
 Lab File: VU028144.D
 Acq: 15 Nov 2018 01:19

Tgt Ion: 128 Resp: 2364
 Ion Ratio Lower Upper
 128 100
 129 0.0 8.5 12.7#
 127 16.4 10.2 15.4#

