

Data File : VU028168.D
Acq On : 15 Nov 2018 12:56
Operator : MD/SY
Sample : J5943-07DL 20X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
H0FH6DL

Quant Time: Nov 16 00:48:30 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR111418WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Nov 16 00:43:47 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	135268	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	129912	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	59854	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	42268	3.77	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	75.40%
7) Chloroethane-d5	1.68	69	37666	4.22	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	84.40%
11) 1,1-Dichloroethene-d2	2.28	63	63170	3.01	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	60.20%
20) 2-Butanone-d5	4.19	46	160638	49.34	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	98.68%
24) Chloroform-d	4.65	84	80356	4.50	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.00%
26) 1,2-Dichloroethane-d4	5.31	65	46121	4.63	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.60%
32) Benzene-d6	5.34	84	165684	4.44	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.80%
36) 1,2-Dichloropropane-d6	6.33	67	61006	4.57	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	91.40%
41) Toluene-d8	7.57	98	144849	4.17	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	83.40%
43) trans-1,3-Dichloropropene-	7.85	79	17672	3.72	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	74.40%
46) 2-Hexanone-d5	8.31	63	122833	45.19	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	90.38%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	41560	4.41	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	88.20%
64) 1,2-Dichlorobenzene-d4	11.86	152	48804	4.36	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	87.20%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.44	85	740	0.062 ug/L	90
5) Vinyl chloride	1.40	62	33136	2.287 ug/L	100
8) Chloroethane	1.70	64	4320	0.495 ug/L	84
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	421	0.047 ug/L #	1
13) Acetone	2.33	43	2402	1.095 ug/L	100
15) Methyl Acetate	2.63	43	605	0.103 ug/L #	58
16) Methylene chloride	2.70	84	3439	0.324 ug/L	90
18) trans-1,2-Dichloroethene	2.98	96	11604	1.214 ug/L	99
19) 1,1-Dichloroethane	3.45	63	19953	0.992 ug/L	98
22) cis-1,2-Dichloroethene	4.23	96	25354	2.405 ug/L	97
25) Chloroform	4.68	83	25203	1.397 ug/L	93
33) Benzene	5.39	78	19652	0.449 ug/L	100
37) 1,2-Dichloropropane	6.33	63	6097	0.504 ug/L #	92
38) Bromodichloromethane	6.76	83	2998	0.233 ug/L #	93
39) cis-1,3-Dichloropropene	7.23	75	1087	0.066 ug/L #	17
42) Toluene	7.64	91	354616	7.858 ug/L	97
48) 2-Hexanone	8.36	43	2208	0.372 ug/L #	88

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Quant Title : TRACE VOA SOM01.0
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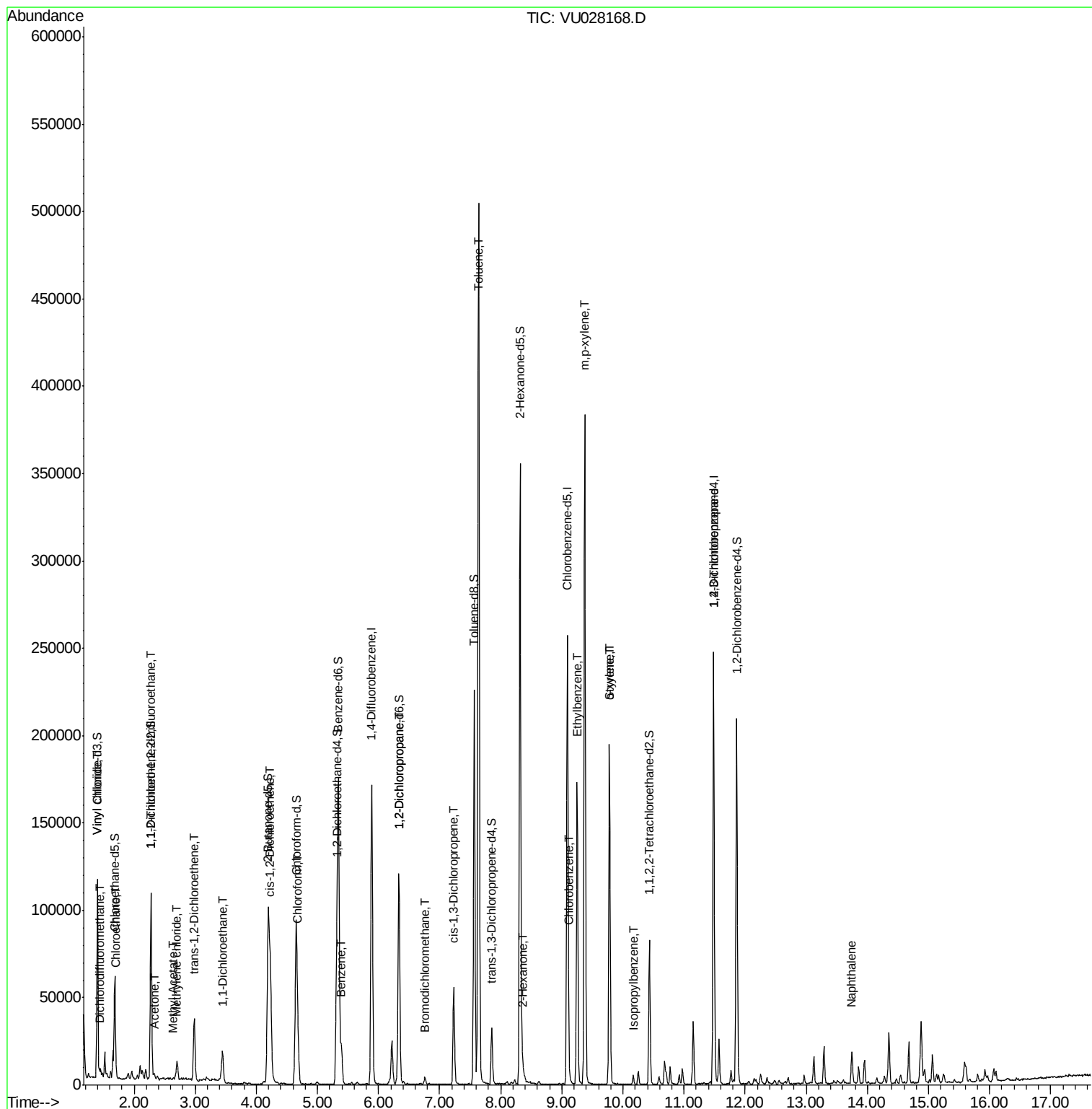
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) Chlorobenzene	9.12	112	2301	0.087	ug/L #	91
52) Ethylbenzene	9.25	91	117358	2.383	ug/L	98
53) m,p-xylene	9.38	106	97865	5.454	ug/L	92
54) o-xylene	9.78	106	48389	2.801	ug/L	100
55) Styrene	9.78	104	2156	0.074	ug/L #	1
56) Isopropylbenzene	10.17	105	3516	0.075	ug/L	94
59) 1,2,3-Trichloropropane	11.48	75	8739	1.286	ug/L	89
69) Naphthalene	13.75	128	14601	0.619	ug/L	96

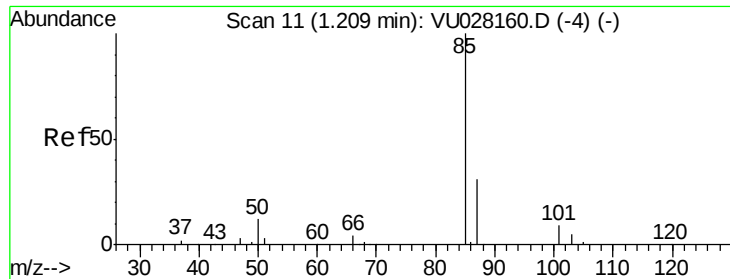
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 0.062 ug/L

RT: 1.44 min Scan# 82

Delta R.T. 0.23 min

Lab File: VU028168.D

Acq: 15 Nov 2018 12:56

Instrument :

MSVOA_U

ClientSampleId :

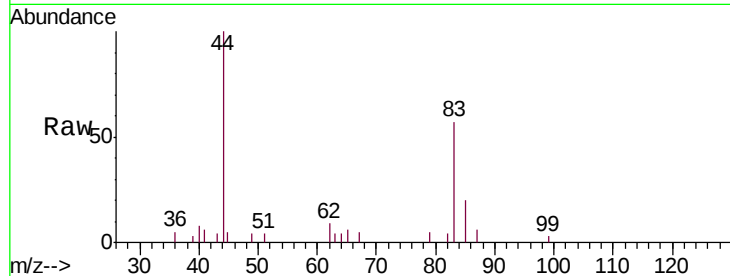
H0FH6DL

Tgt Ion: 85 Resp: 740

Ion Ratio Lower Upper

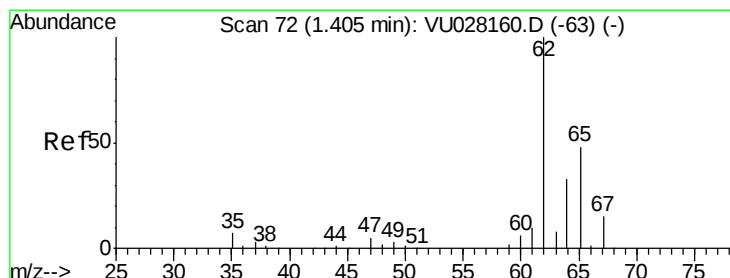
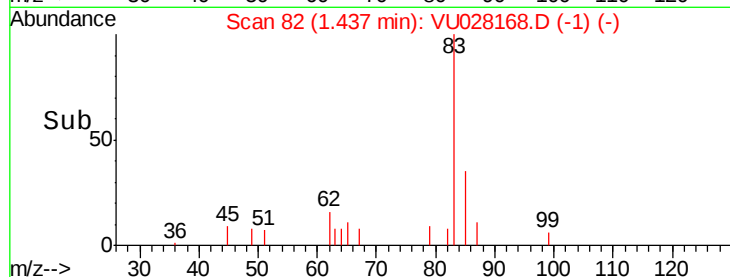
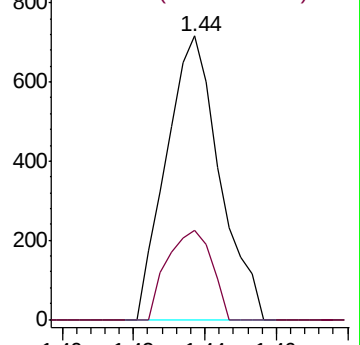
85 100

87 26.4 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#5

Vinyl chloride

Concen: 2.287 ug/L

RT: 1.40 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU028168.D

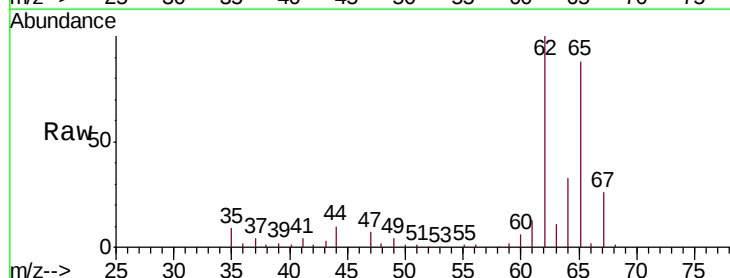
Acq: 15 Nov 2018 12:56

Tgt Ion: 62 Resp: 33136

Ion Ratio Lower Upper

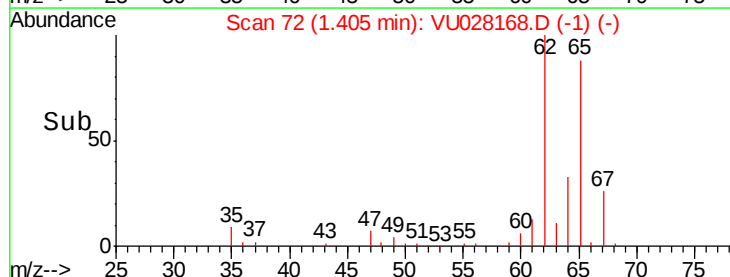
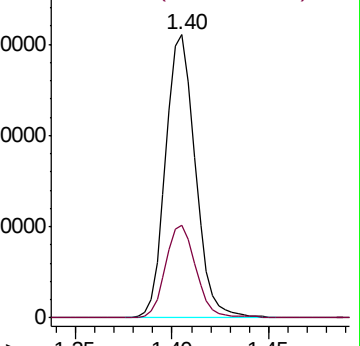
62 100

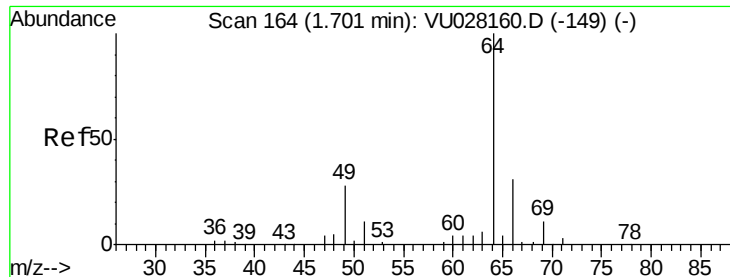
64 32.7 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0





#8

Chloroethane

Concen: 0.495 ug/L

RT: 1.70 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU028168.D

Acq: 15 Nov 2018 12:56

Instrument :

MSVOA_U

ClientSampleId :

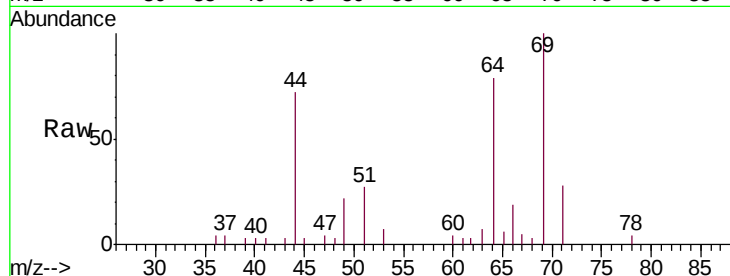
H0FH6DL

Tgt Ion: 64 Resp: 4320

Ion Ratio Lower Upper

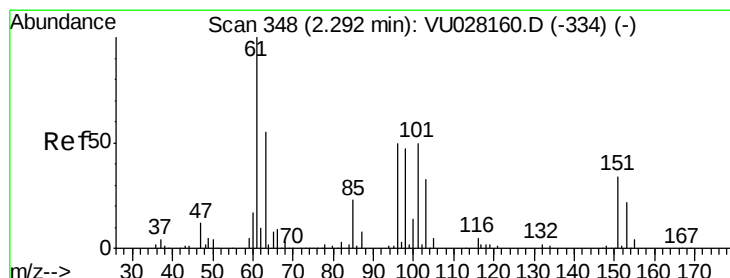
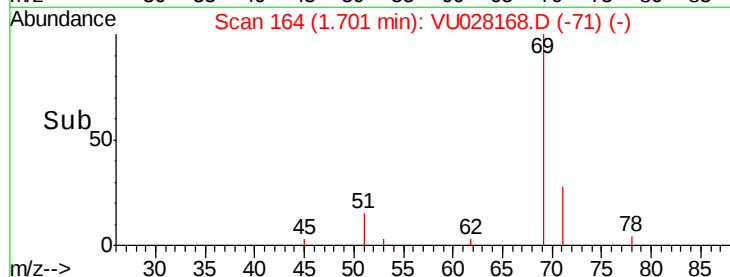
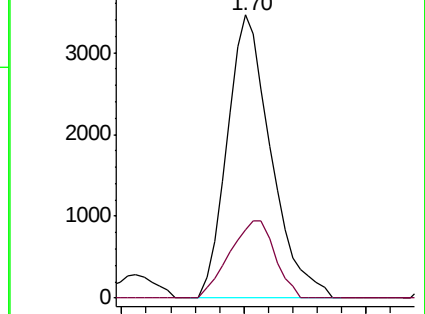
64 100

66 24.1 23.1 42.9



Abundance Ion 64.10 (63.80 to 64.80): VU028168.D (-149) (-)

Ion 66.05 (65.75 to 66.75): VU028168.D (-149) (-)



#10

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

Concen: 0.047 ug/L

RT: 2.28 min Scan# 343

Delta R.T. -0.02 min

Lab File: VU028168.D

Acq: 15 Nov 2018 12:56

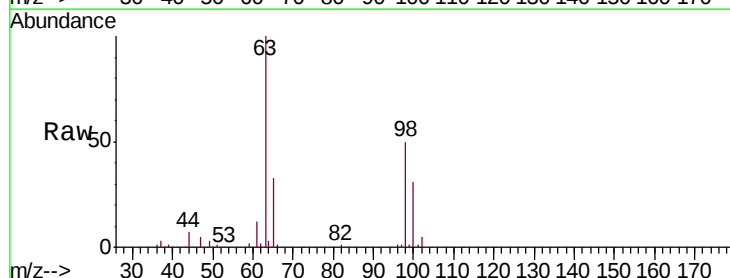
Tgt Ion: 101 Resp: 421

Ion Ratio Lower Upper

101 100

85 350.1 37.6 56.4#

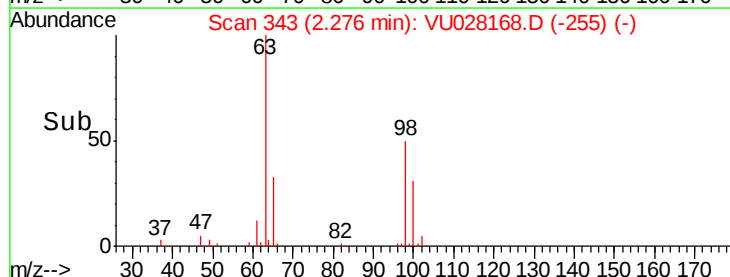
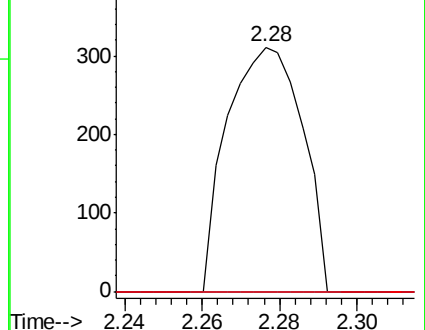
151 0.0 58.2 87.2#

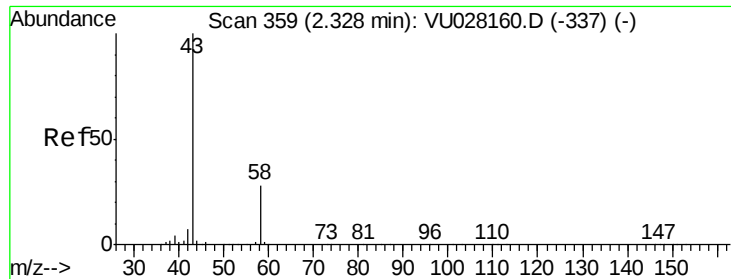


Abundance Ion 101.00 (100.70 to 101.70): VU028168.D (-255) (-)

Ion 85.00 (84.70 to 85.70): VU028168.D (-255) (-)

Ion 151.00 (150.70 to 151.70): VU028168.D (-255) (-)





#13

Acetone

Concen: 1.095 ug/L

RT: 2.33 min Scan# 359

Delta R.T. 0.00 min

Lab File: VU028168.D

Acq: 15 Nov 2018 12:56

Instrument :

MSVOA_U

ClientSampleId :

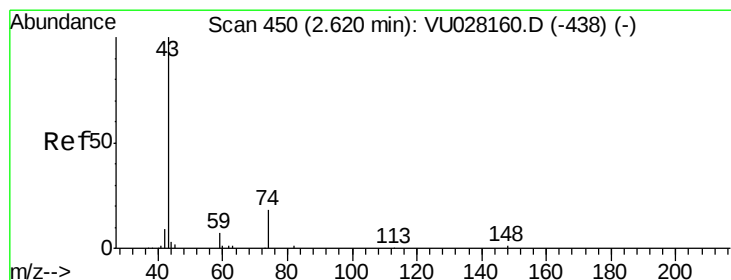
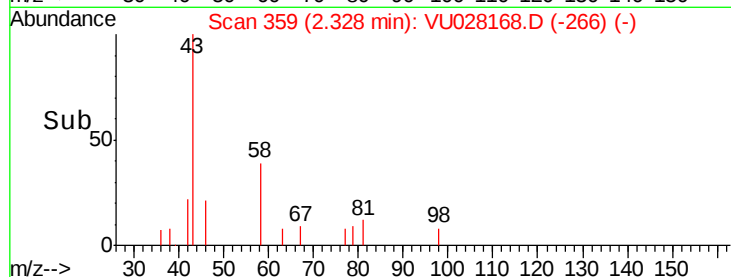
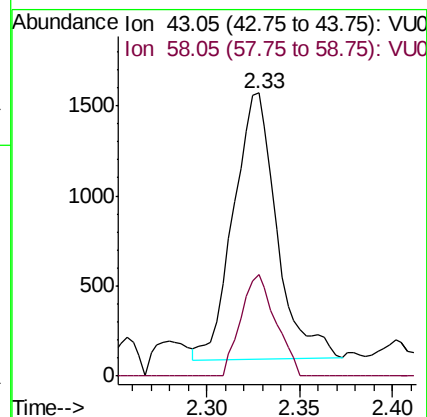
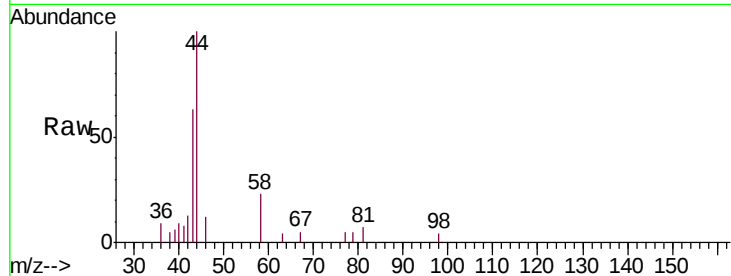
H0FH6DL

Tgt Ion: 43 Resp: 2402

Ion Ratio Lower Upper

43 100

58 30.7 0.0 61.6



#15

Methyl Acetate

Concen: 0.103 ug/L

RT: 2.63 min Scan# 452

Delta R.T. 0.01 min

Lab File: VU028168.D

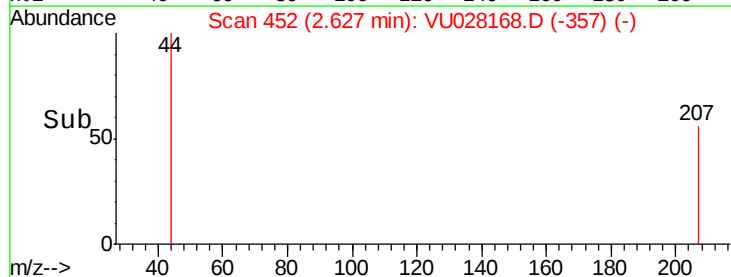
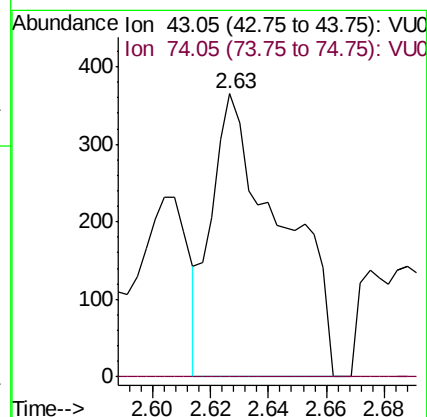
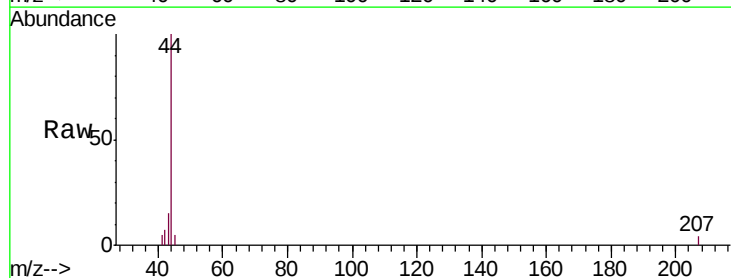
Acq: 15 Nov 2018 12:56

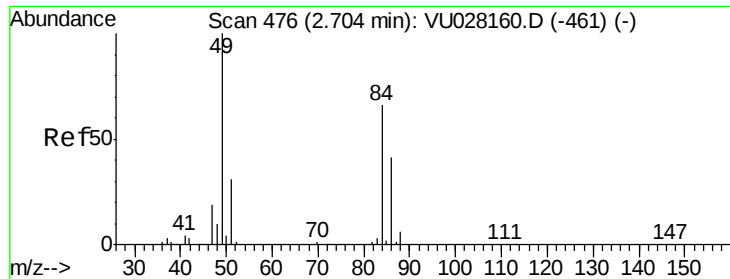
Tgt Ion: 43 Resp: 605

Ion Ratio Lower Upper

43 100

74 0.0 14.9 22.3#

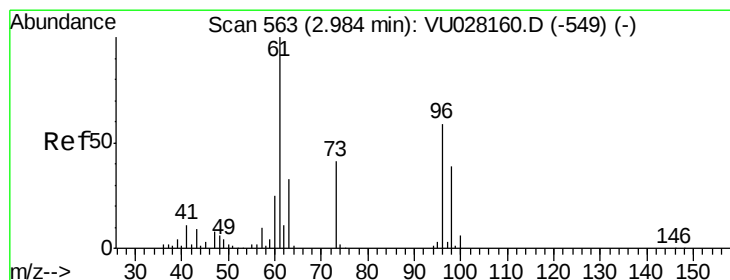
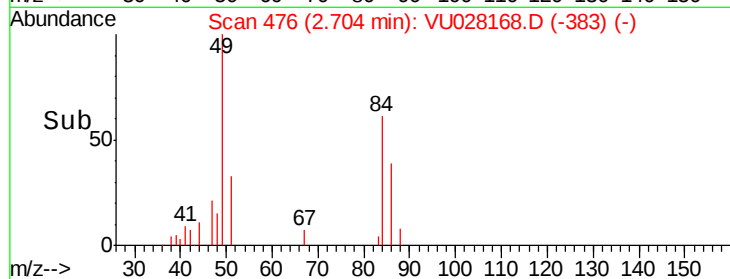
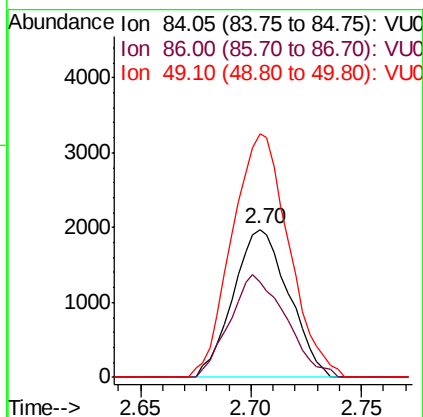
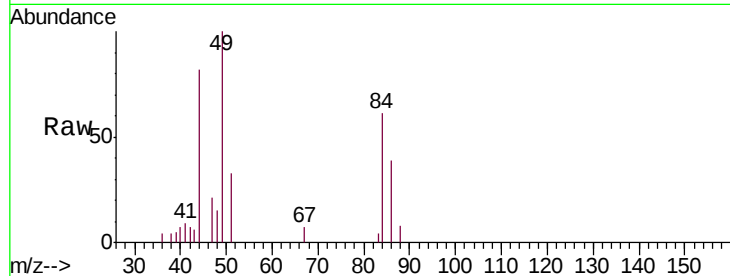




#16
Methylene chloride
Concen: 0.324 ug/L
RT: 2.70 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU028168.D
Acq: 15 Nov 2018 12:56

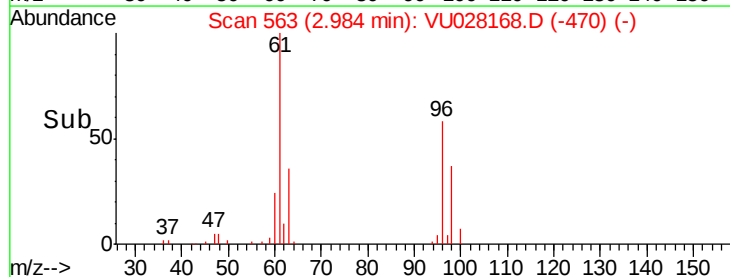
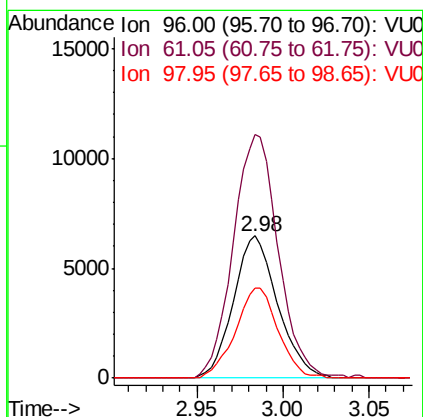
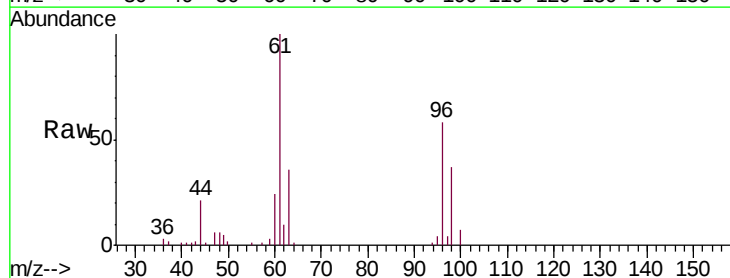
Instrument :
MSVOA_U
ClientSampleId :
H0FH6DL

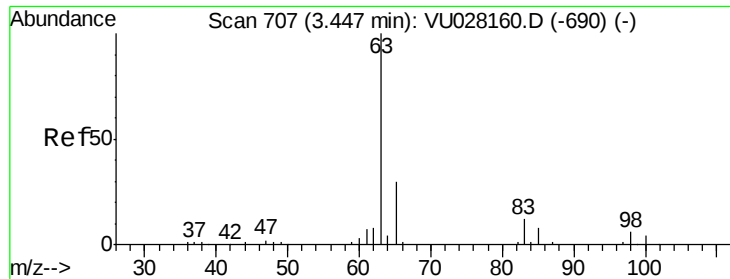
Tgt Ion: 84 Resp: 3439
Ion Ratio Lower Upper
84 100
86 64.7 44.6 82.8
49 164.5 102.5 190.3



#18
trans-1,2-Dichloroethene
Concen: 1.214 ug/L
RT: 2.98 min Scan# 563
Delta R.T. 0.00 min
Lab File: VU028168.D
Acq: 15 Nov 2018 12:56

Tgt Ion: 96 Resp: 11604
Ion Ratio Lower Upper
96 100
61 171.1 118.5 220.1
98 63.5 44.9 83.5





#19

1,1-Dichloroethane

Concen: 0.992 ug/L

RT: 3.45 min Scan# 707

Delta R.T. 0.00 min

Lab File: VU028168.D

Acq: 15 Nov 2018 12:56

Instrument :

MSVOA_U

ClientSampleId :

H0FH6DL

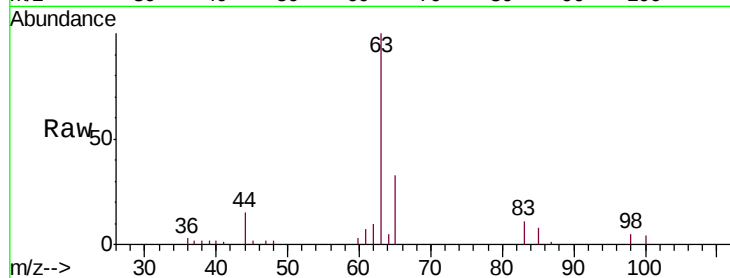
Tgt Ion: 63 Resp: 19953

Ion Ratio Lower Upper

63 100

65 32.5 22.2 41.2

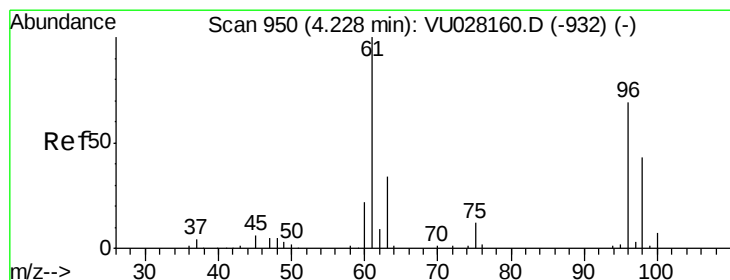
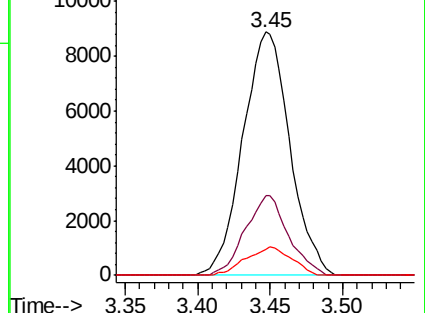
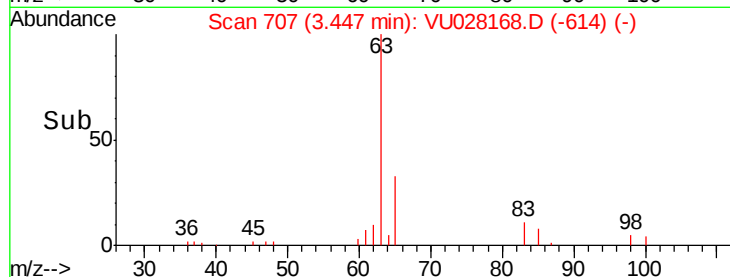
83 10.8 8.9 16.5



Abundance Ion 63.10 (62.80 to 63.80): VU028168.D (-614) (-)

Ion 65.10 (64.80 to 65.80): VU028168.D (-614) (-)

Ion 83.05 (82.75 to 83.75): VU028168.D (-614) (-)



#22

cis-1,2-Dichloroethene

Concen: 2.405 ug/L

RT: 4.23 min Scan# 950

Delta R.T. 0.00 min

Lab File: VU028168.D

Acq: 15 Nov 2018 12:56

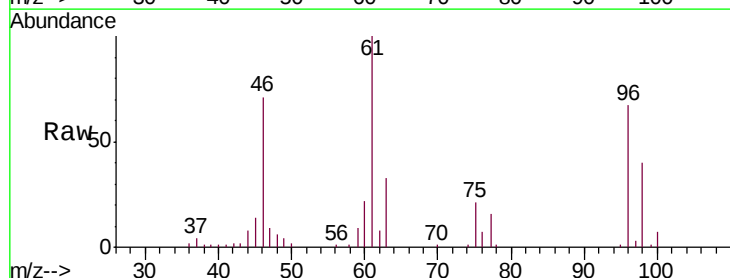
Tgt Ion: 96 Resp: 25354

Ion Ratio Lower Upper

96 100

61 148.7 101.8 189.0

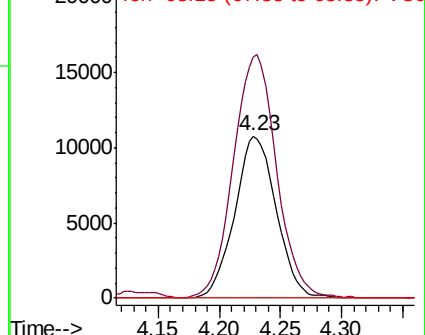
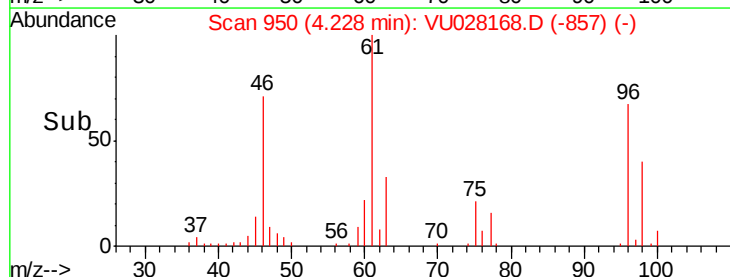
68 0.0 0.0 0.0

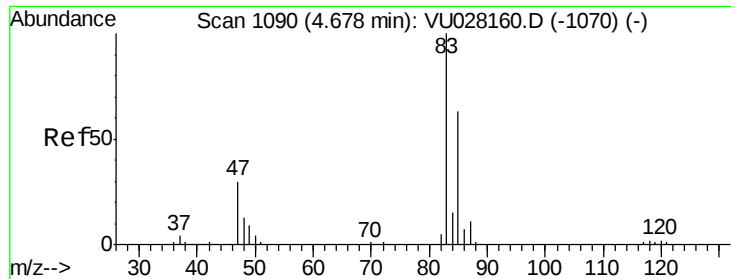


Abundance Ion 96.00 (95.70 to 96.70): VU028168.D (-857) (-)

Ion 61.05 (60.75 to 61.75): VU028168.D (-857) (-)

Ion 68.15 (67.85 to 68.85): VU028168.D (-857) (-)

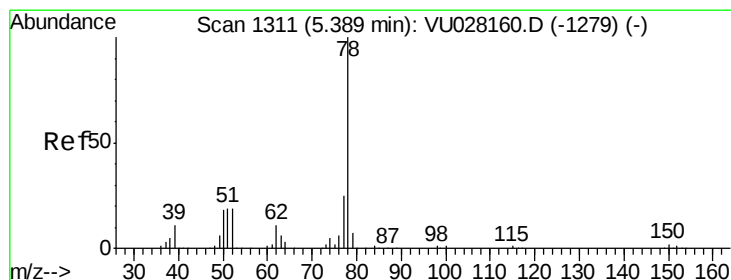
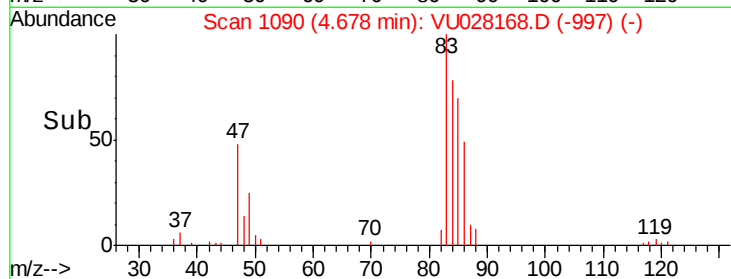
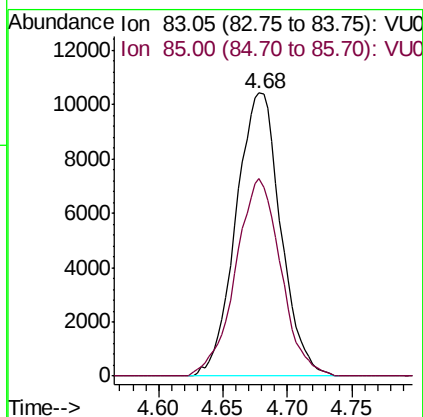
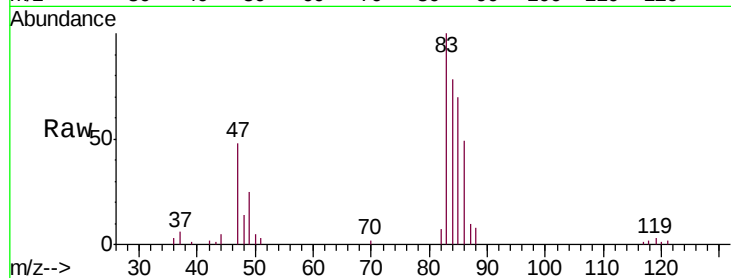




#25
Chloroform
Concen: 1.397 ug/L
RT: 4.68 min Scan# 1090
Delta R.T. 0.00 min
Lab File: VU028168.D
Acq: 15 Nov 2018 12:56

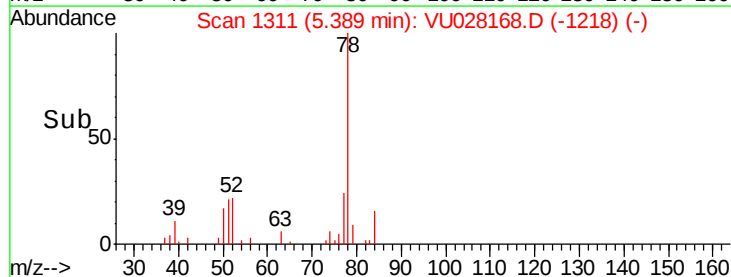
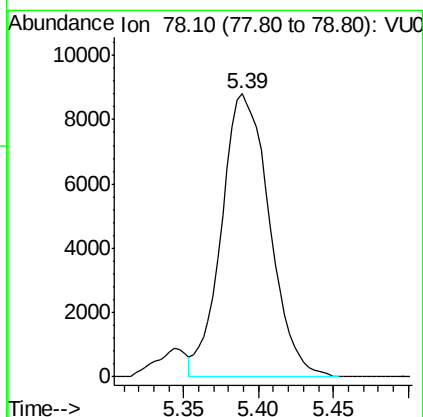
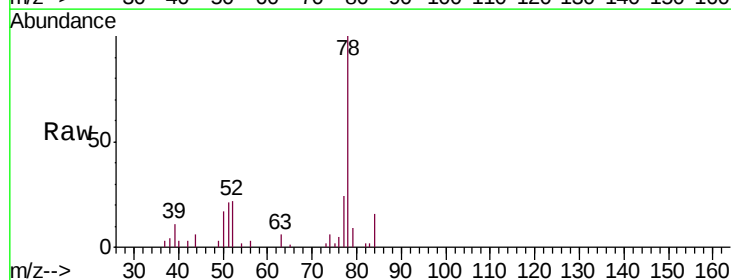
Instrument :
MSVOA_U
ClientSampleId :
H0FH6DL

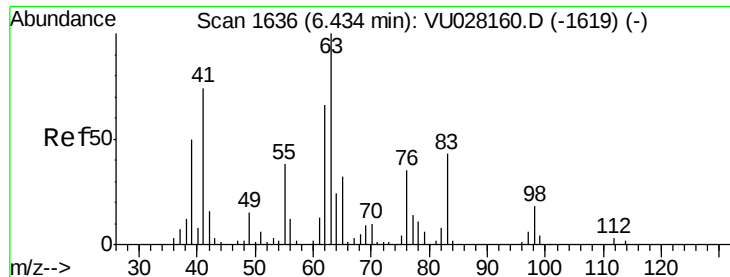
Tgt Ion: 83 Resp: 25203
Ion Ratio Lower Upper
83 100
85 69.7 45.0 83.6



#33
Benzene
Concen: 0.449 ug/L
RT: 5.39 min Scan# 1311
Delta R.T. 0.00 min
Lab File: VU028168.D
Acq: 15 Nov 2018 12:56

Tgt Ion: 78 Resp: 19652

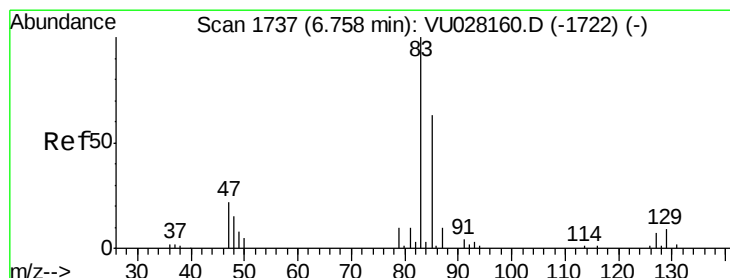
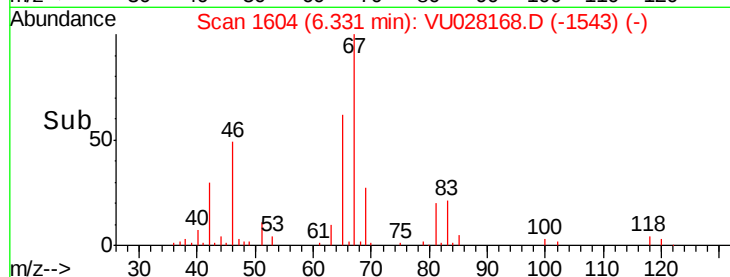
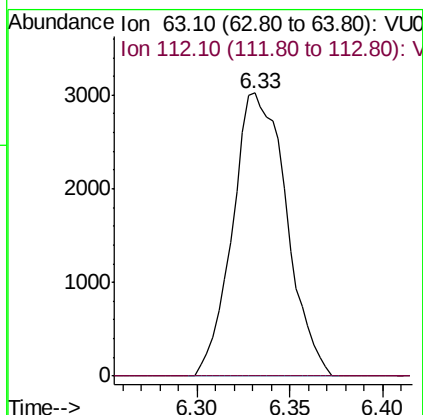
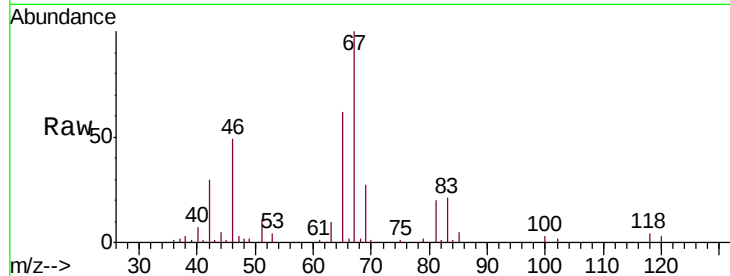




#37
 1,2-Dichloropropane
 Concen: 0.504 ug/L
 RT: 6.33 min Scan# 1604
 Delta R.T. -0.10 min
 Lab File: VU028168.D
 Acq: 15 Nov 2018 12:56

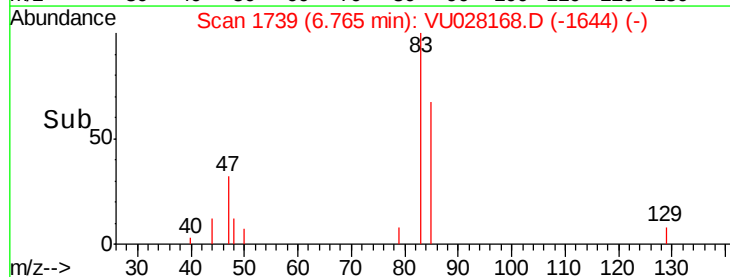
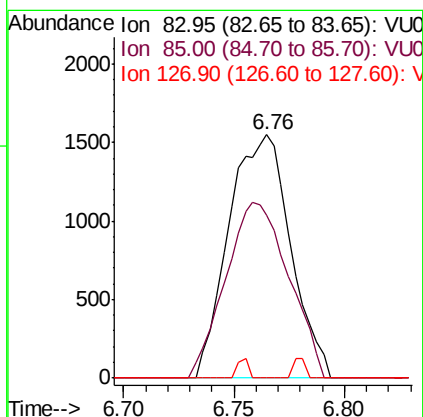
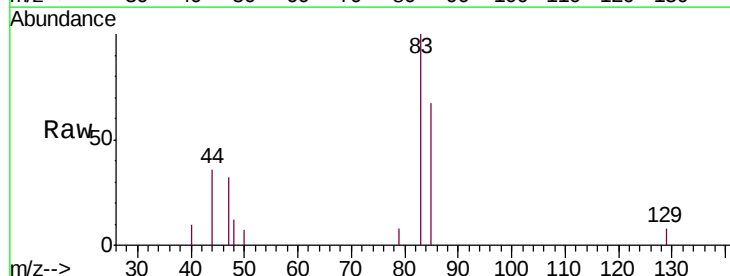
Instrument :
 MSVOA_U
 ClientSampleId :
 H0FH6DL

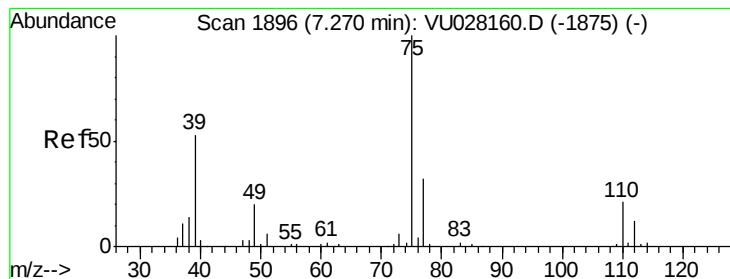
Tgt Ion: 63 Resp: 6097
 Ion Ratio Lower Upper
 63 100
 112 0.0 2.2 3.4#



#38
 Bromodichloromethane
 Concen: 0.233 ug/L
 RT: 6.76 min Scan# 1739
 Delta R.T. 0.01 min
 Lab File: VU028168.D
 Acq: 15 Nov 2018 12:56

Tgt Ion: 83 Resp: 2998
 Ion Ratio Lower Upper
 83 100
 85 67.1 44.5 82.7
 127 0.0 6.8 10.2#



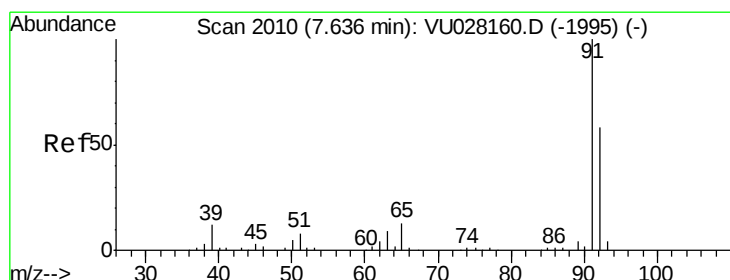
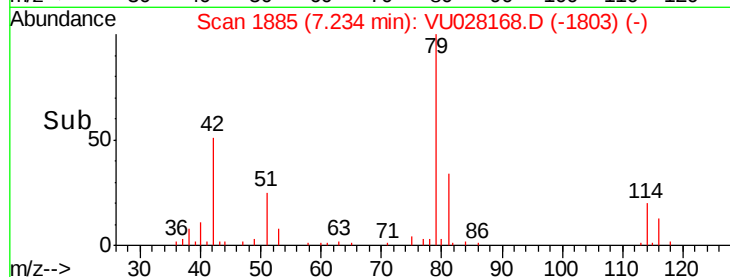
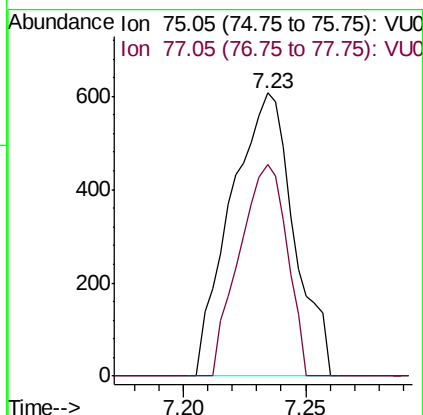
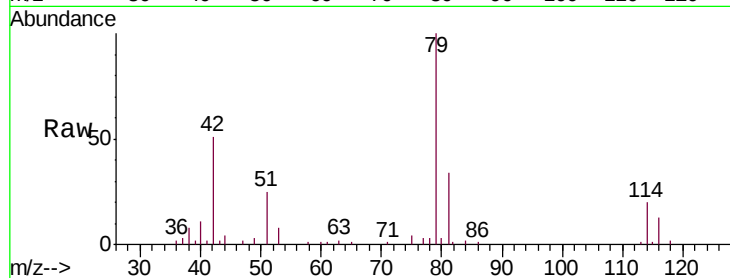


#39

cis-1,3-Dichloropropene
Concen: 0.066 ug/L
RT: 7.23 min Scan# 1885
Delta R.T. -0.04 min
Lab File: VU028168.D
Acq: 15 Nov 2018 12:56

Instrument :
MSVOA_U
ClientSampleId :
H0FH6DL

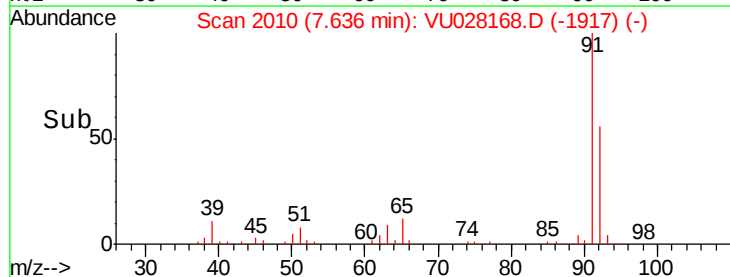
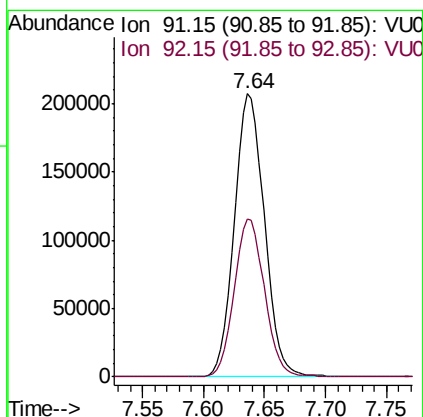
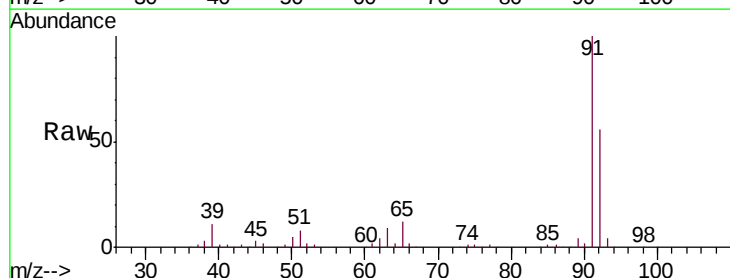
Tgt Ion: 75 Resp: 1087
Ion Ratio Lower Upper
75 100
77 74.6 20.9 38.9#

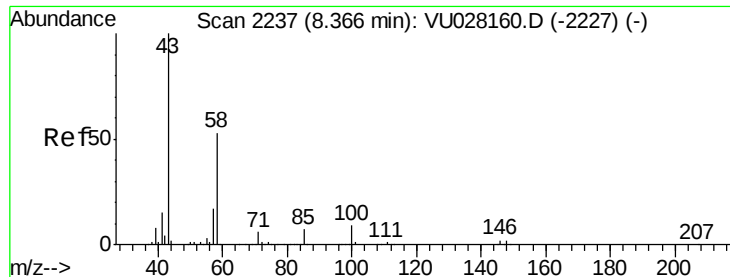


#42

Toluene
Concen: 7.858 ug/L
RT: 7.64 min Scan# 2010
Delta R.T. 0.00 min
Lab File: VU028168.D
Acq: 15 Nov 2018 12:56

Tgt Ion: 91 Resp: 354616
Ion Ratio Lower Upper
91 100
92 56.0 40.7 75.7

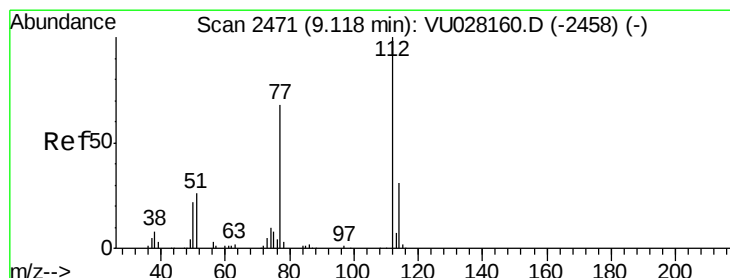
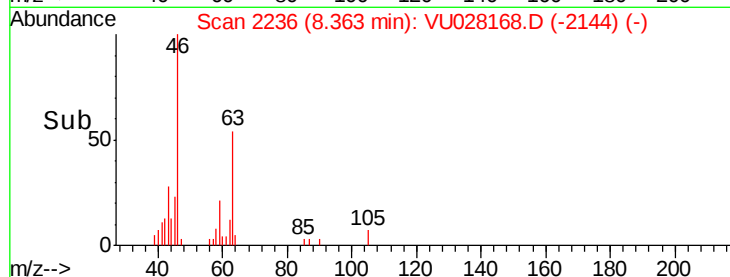
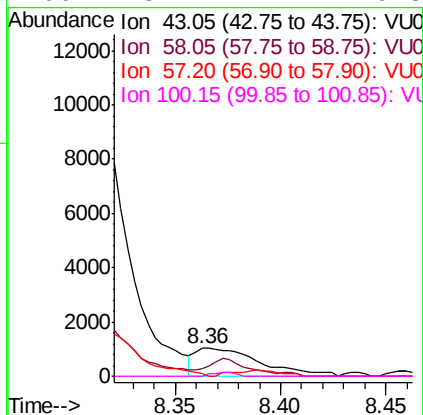
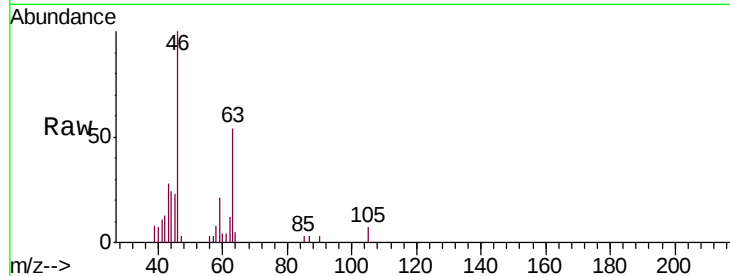




#48
2-Hexanone
Concen: 0.372 ug/L
RT: 8.36 min Scan# 2236
Delta R.T. -0.00 min
Lab File: VU028168.D
Acq: 15 Nov 2018 12:56

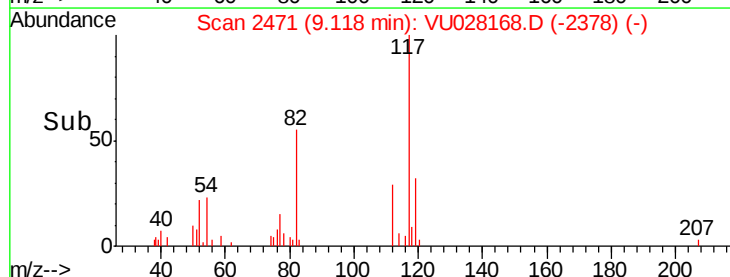
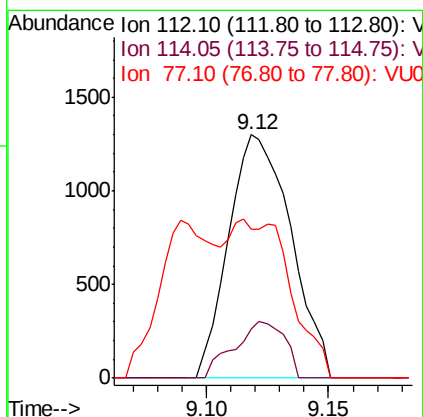
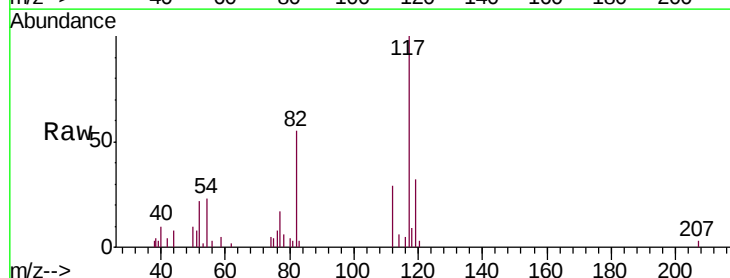
Instrument :
MSVOA_U
ClientSampleId :
H0FH6DL

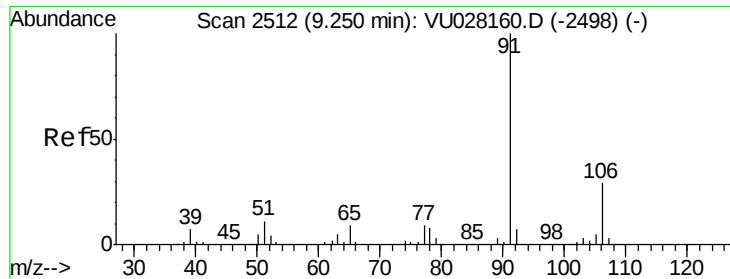
Tgt Ion: 43 Resp: 2208
Ion Ratio Lower Upper
43 100
58 40.9 41.7 62.5#
57 15.9 14.0 21.0
100 5.4 7.2 10.8#



#51
Chlorobenzene
Concen: 0.087 ug/L
RT: 9.12 min Scan# 2471
Delta R.T. 0.00 min
Lab File: VU028168.D
Acq: 15 Nov 2018 12:56

Tgt Ion: 112 Resp: 2301
Ion Ratio Lower Upper
112 100
114 20.3 22.5 41.7#
77 61.2 51.3 76.9





#52

Ethylbenzene

Concen: 2.383 ug/L

RT: 9.25 min Scan# 2512

Delta R.T. 0.00 min

Lab File: VU028168.D

Acq: 15 Nov 2018 12:56

Instrument :

MSVOA_U

ClientSampleId :

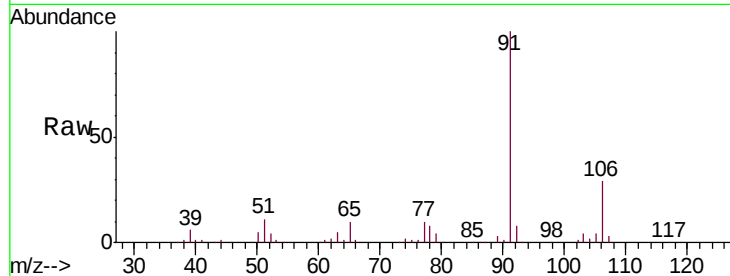
H0FH6DL

Tgt Ion: 91 Resp: 117358

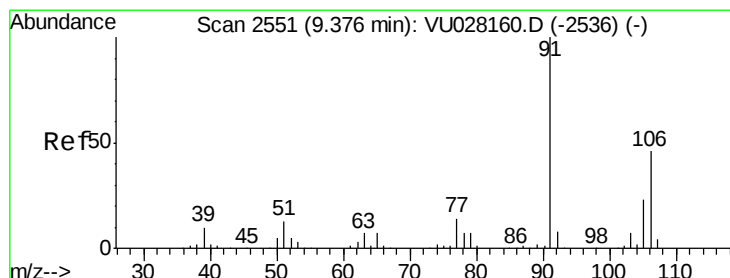
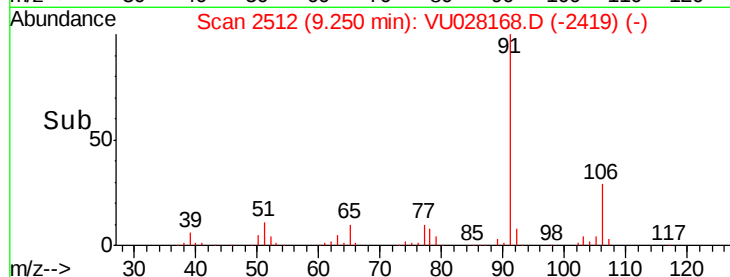
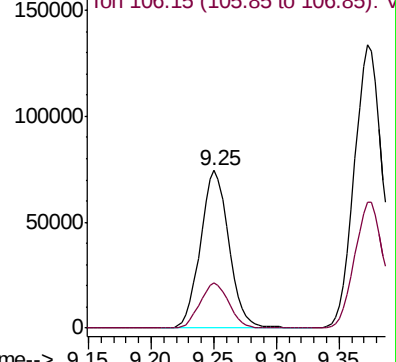
Ion Ratio Lower Upper

91 100

106 28.5 20.9 38.7



Abundance Ion 91.15 (90.85 to 91.85): VU028168.D (-2419) (-)



#53

m,p-xylene

Concen: 5.454 ug/L

RT: 9.38 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VU028168.D

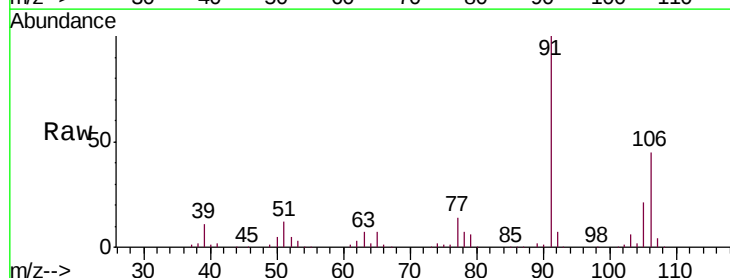
Acq: 15 Nov 2018 12:56

Tgt Ion: 106 Resp: 97865

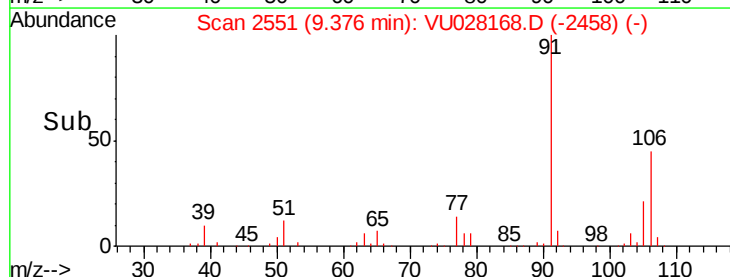
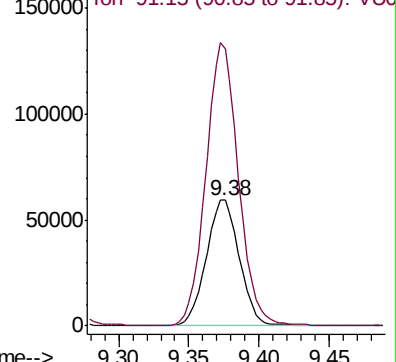
Ion Ratio Lower Upper

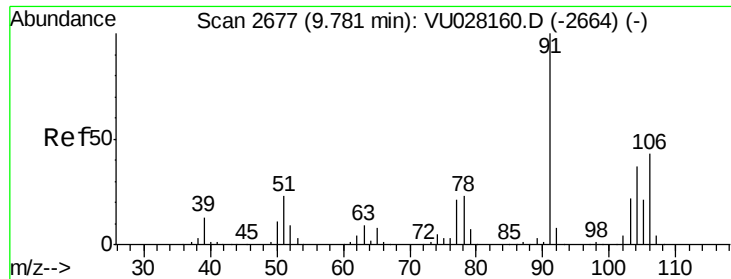
106 100

91 221.0 145.7 270.7



Abundance Ion 106.15 (105.85 to 106.85): VU028168.D (-2458) (-)

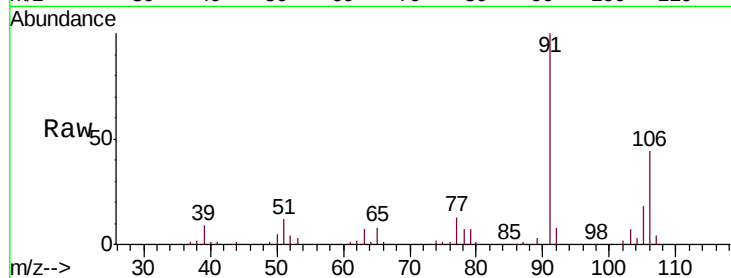




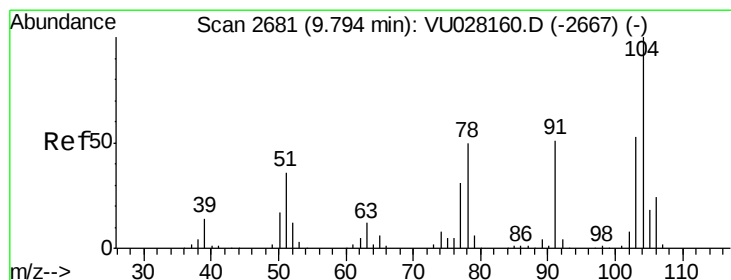
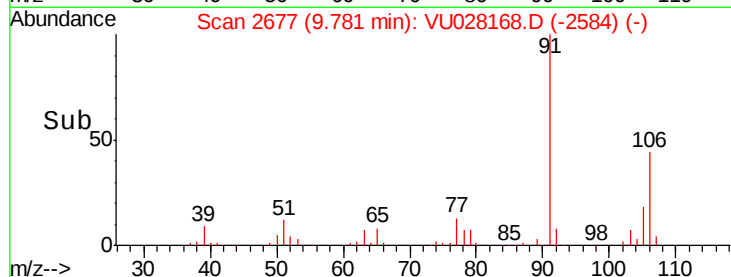
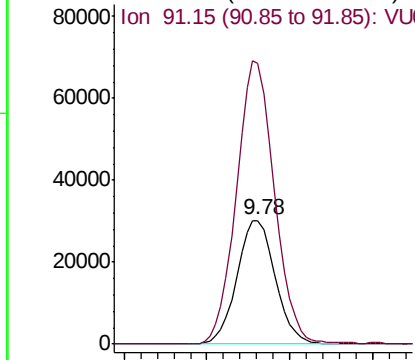
#54
o-xylene
Concen: 2.801 ug/L
RT: 9.78 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VU028168.D
Acq: 15 Nov 2018 12:56

Instrument :
MSVOA_U
ClientSampleId :
H0FH6DL

Tgt Ion:106 Resp: 48389
Ion Ratio Lower Upper
106 100
91 226.4 158.7 294.7

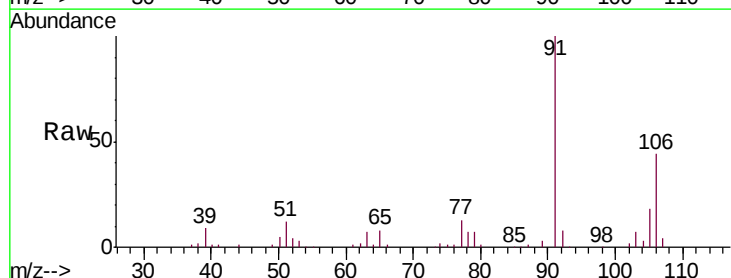


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

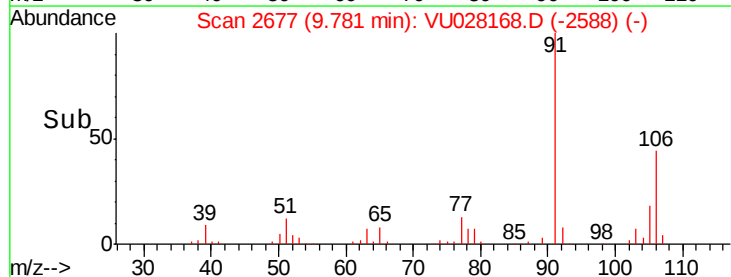
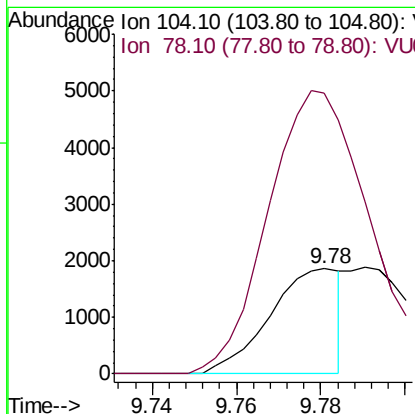


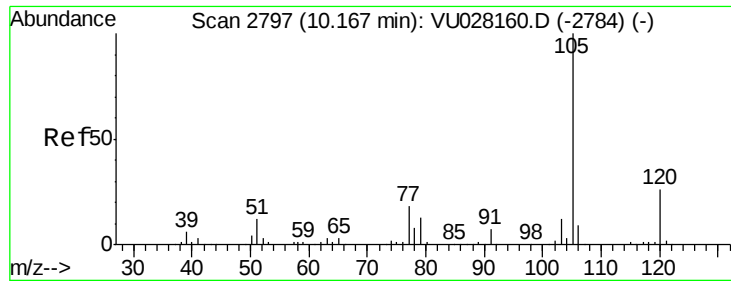
#55
Styrene
Concen: 0.074 ug/L
RT: 9.78 min Scan# 2677
Delta R.T. -0.01 min
Lab File: VU028168.D
Acq: 15 Nov 2018 12:56

Tgt Ion:104 Resp: 2156
Ion Ratio Lower Upper
104 100
78 266.7 34.5 64.1#



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 0.075 ug/L

RT: 10.17 min Scan# 2798

Delta R.T. 0.00 min

Lab File: VU028168.D

Acq: 15 Nov 2018 12:56

Instrument :

MSVOA_U

ClientSampleId :

H0FH6DL

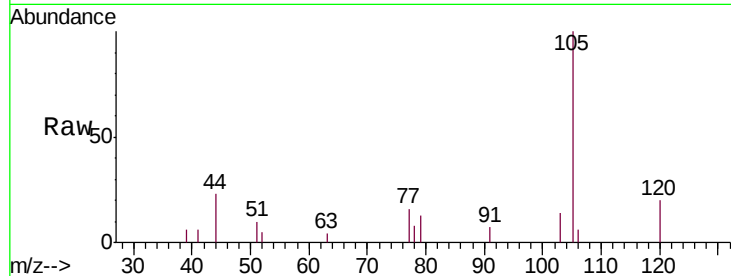
Tgt Ion: 105 Resp: 3516

Ion Ratio Lower Upper

105 100

120 22.1 20.5 30.7

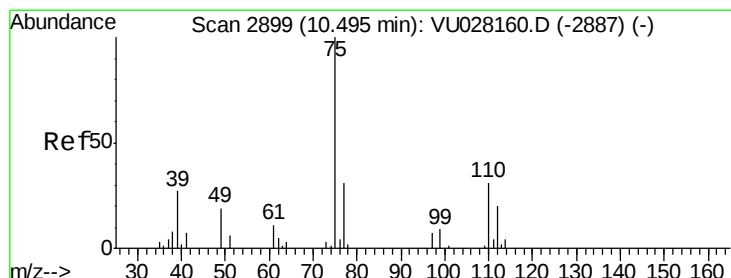
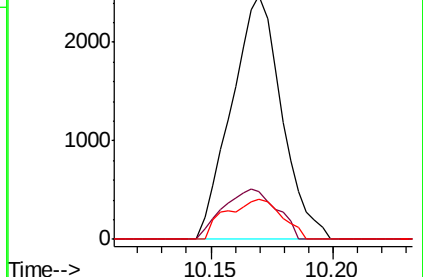
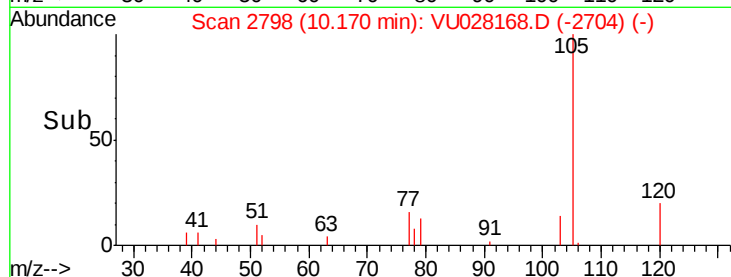
77 18.1 13.3 19.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#59

1,2,3-Trichloropropane

Concen: 1.286 ug/L

RT: 11.48 min Scan# 3207

Delta R.T. 0.99 min

Lab File: VU028168.D

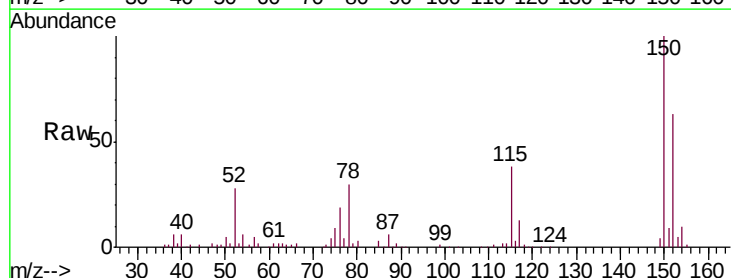
Acq: 15 Nov 2018 12:56

Tgt Ion: 75 Resp: 8739

Ion Ratio Lower Upper

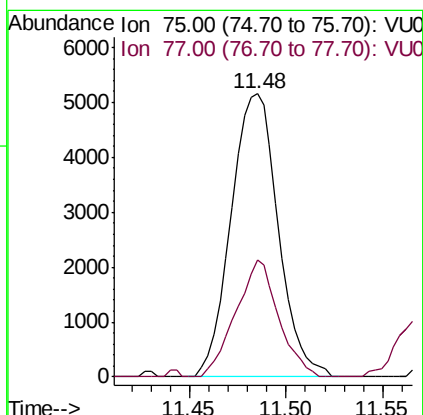
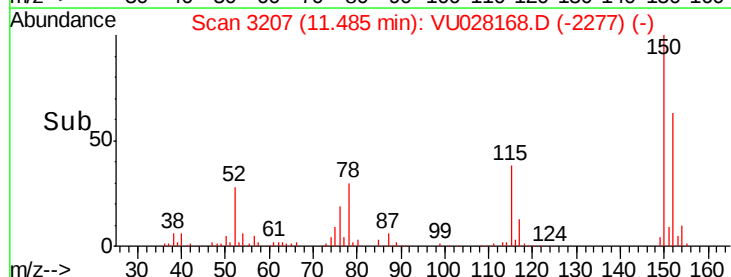
75 100

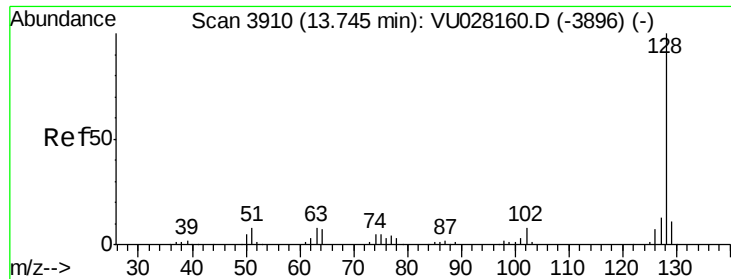
77 37.6 25.4 38.0



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 77.00 (76.70 to 77.70): V





#69

Naphthalene

Concen: 0.619 ug/L

RT: 13.75 min Scan# 3910

Delta R.T. 0.00 min

Lab File: VU028168.D

Acq: 15 Nov 2018 12:56

Instrument :

MSVOA_U

ClientSampleId :

H0FH6DL

Tgt Ion:128 Resp: 14601

Ion Ratio Lower Upper

128 100

129 11.8 8.5 12.7

127 14.6 10.2 15.4

