

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091820\
 Data File : VU040204.D
 Acq On : 18 Sep 2020 12:34
 Operator : SY/MD
 Sample : L4046-01DL 25X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BG0N9DL

Quant Time: Sep 18 23:22:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR083120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Sep 18 23:20:35 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	112962	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	108814	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	50426	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	28608	4.64	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	92.80%
7) Chloroethane-d5	1.92	69	27023	5.26	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	105.20%
11) 1,1-Dichloroethene-d2	2.58	63	50958	3.22	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	64.40%
20) 2-Butanone-d5	4.66	46	136449	55.31	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	110.62%
24) Chloroform-d	5.08	84	70373	4.88	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.60%
26) 1,2-Dichloroethane-d4	5.72	65	45613	5.13	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.60%
32) Benzene-d6	5.74	84	129652	5.10	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.00%
36) 1,2-Dichloropropane-d6	6.70	67	43769	5.23	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	104.60%
41) Toluene-d8	7.91	98	102282	4.46	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.20%
43) trans-1,3-Dichloropropene-	8.19	79	17837	4.64	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	92.80%
46) 2-Hexanone-d5	8.64	63	97873	53.71	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	107.42%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	40063	5.53	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	110.60%
64) 1,2-Dichlorobenzene-d4	12.19	152	44599	5.47	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	109.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
8) Chloroethane	1.94	64	902	0.138	ug/L	96
12) 1,1-Dichloroethene	2.58	96	474	0.054	ug/L #	1
13) Acetone	2.39	43	14711	6.442	ug/L	49
16) Methylene chloride	3.07	84	3661	0.320	ug/L	76
25) Chloroform	5.11	83	3886	0.196	ug/L	88
27) 1,2-Dichloroethane	5.79	62	6521	0.449	ug/L #	78
30) Cyclohexane	5.41	56	1019	0.062	ug/L #	79
33) Benzene	5.79	78	647285	16.628	ug/L	100
34) Trichloroethene	6.27	95	2318	0.222	ug/L #	9
35) Methylcyclohexane	6.78	83	446	0.028	ug/L #	74
37) 1,2-Dichloropropane	6.70	63	5594	0.531	ug/L #	88
39) cis-1,3-Dichloropropene	7.57	75	1769	0.114	ug/L	97
42) Toluene	7.98	91	2622	0.065	ug/L	99
44) trans-1,3-Dichloropropene	8.20	75	1041	0.072	ug/L	100
51) Chlorobenzene	9.45	112	211811	8.510	ug/L	96
52) Ethylbenzene	9.57	91	7567	0.166	ug/L	89
53) m,p-Xylene	9.70	106	16021	0.988	ug/L	99

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Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Sep 18 23:20:35 2020
Response via : Initial Calibration

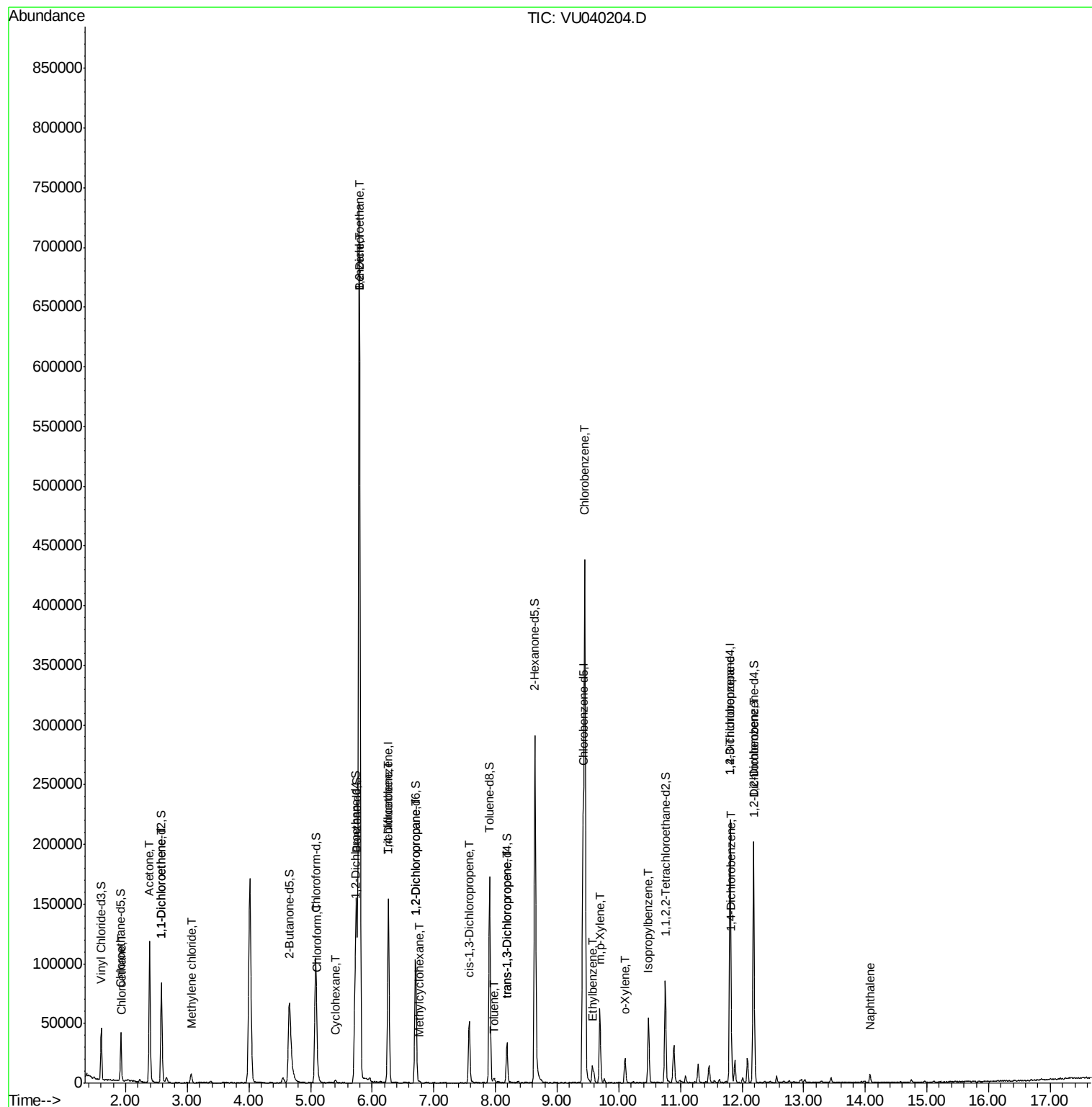
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	10.10	106	4014	0.260	ug/L	88
56) Isopropylbenzene	10.48	105	31719	0.753	ug/L	99
59) 1,2,3-Trichloropropane	11.81	75	9236	1.183	ug/L #	44
63) 1,4-Dichlorobenzene	11.83	146	4472	0.240	ug/L	97
65) 1,2-Dichlorobenzene	12.20	146	3512	0.197	ug/L	92
69) Naphthalene	14.08	128	5874	0.252	ug/L	95

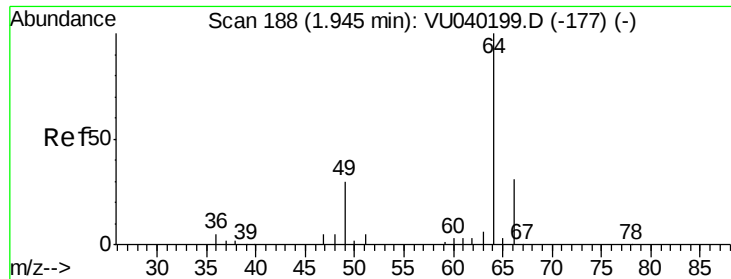
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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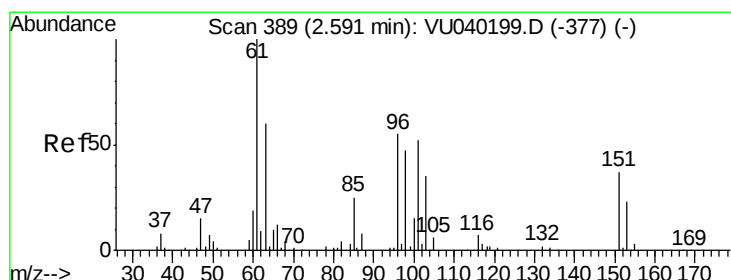
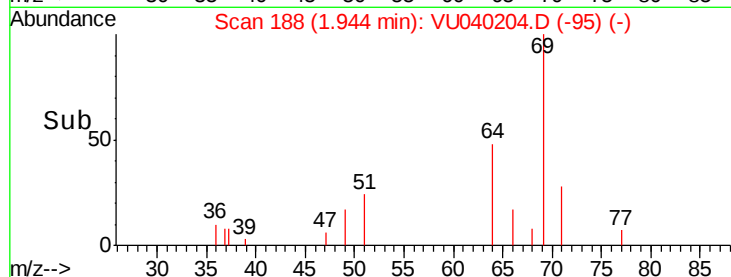
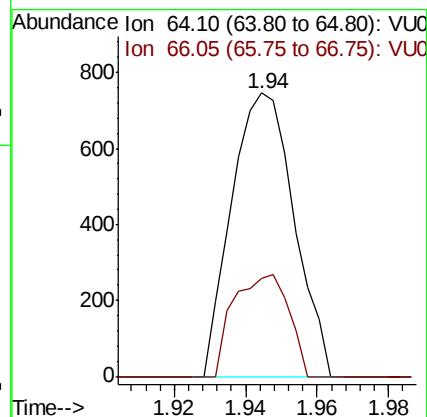
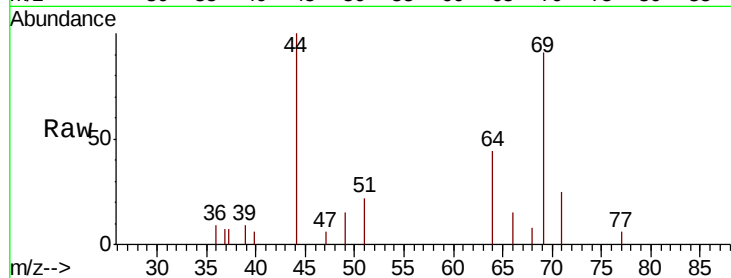




#8
Chloroethane
Concen: 0.138 ug/L
RT: 1.94 min Scan# 188
Delta R.T. -0.00 min
Lab File: VU040204.D
Acq: 18 Sep 2020 12:34

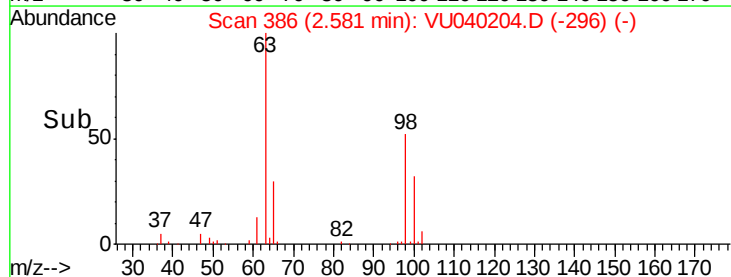
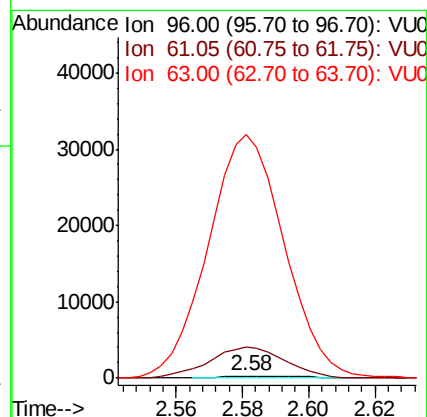
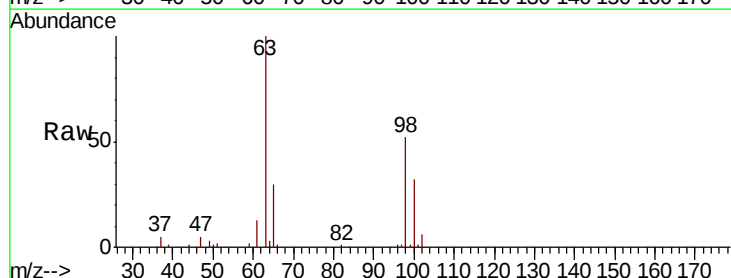
Instrument :
MSVOA_U
ClientSampleId :
BG0N9DL

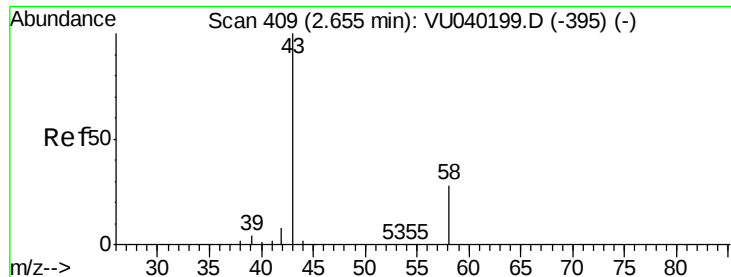
Tot Ion: 64 Resp: 902
Ion Ratio Lower Upper
64 100
66 34.6 22.7 42.1



#12
1,1-Dichloroethene
Concen: 0.054 ug/L
RT: 2.58 min Scan# 386
Delta R.T. -0.01 min
Lab File: VU040204.D
Acq: 18 Sep 2020 12:34

Tgt Ion: 96 Resp: 474
Ion Ratio Lower Upper
96 100
61 1334.8 138.3 256.8#
63 10465.6 77.6 144.2#





#13

Acetone

Concen: 6.442 ug/L

RT: 2.39 min Scan# 326

Delta R.T. -0.27 min

Lab File: VU040204.D

Acq: 18 Sep 2020 12:34

Instrument :

MSVOA_U

ClientSampleId :

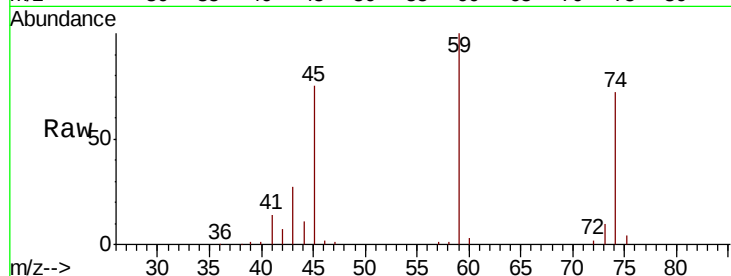
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Tot Ion: 43 Resp: 14711

Ion Ratio Lower Upper

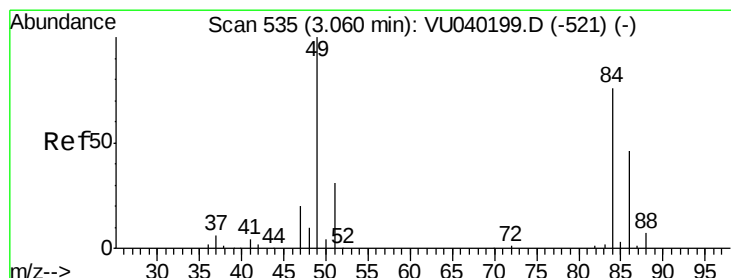
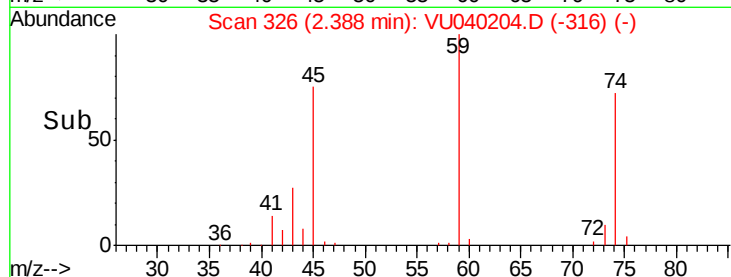
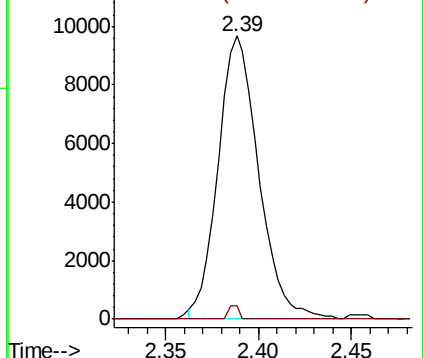
43 100

58 1.2 0.0 55.4



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



#16

Methylene chloride

Concen: 0.320 ug/L

RT: 3.07 min Scan# 537

Delta R.T. 0.01 min

Lab File: VU040204.D

Acq: 18 Sep 2020 12:34

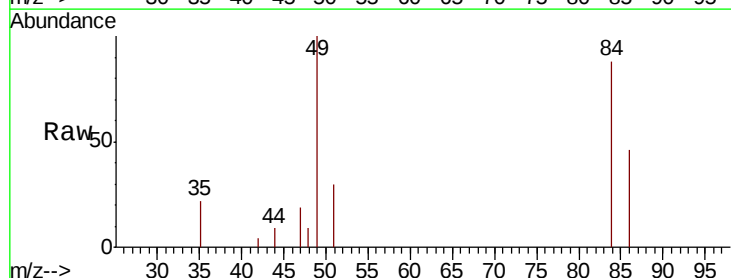
Tgt Ion: 84 Resp: 3661

Ion Ratio Lower Upper

84 100

86 52.1 45.2 84.0

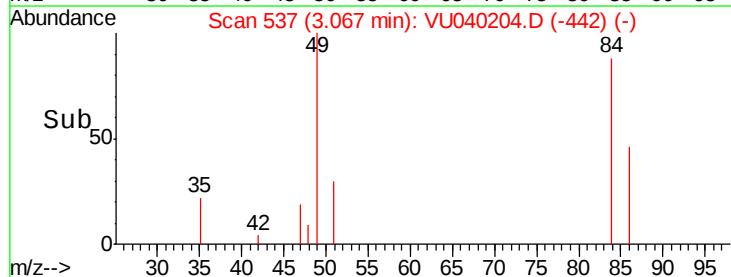
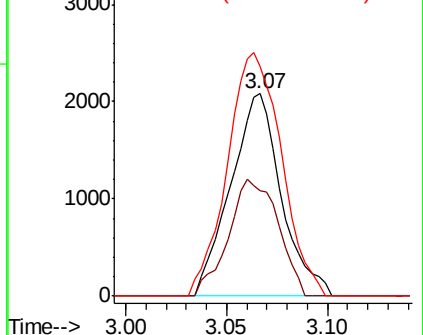
49 113.3 104.0 193.2

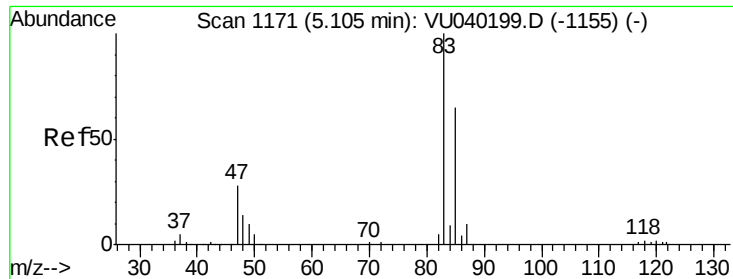


Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0

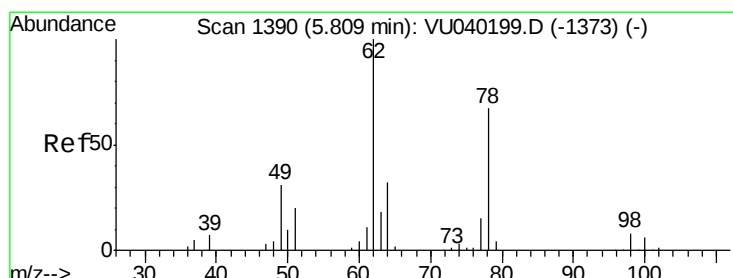
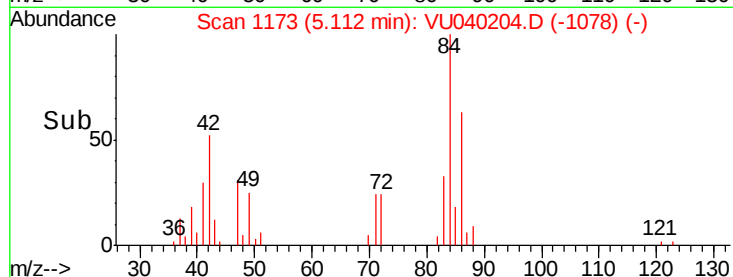
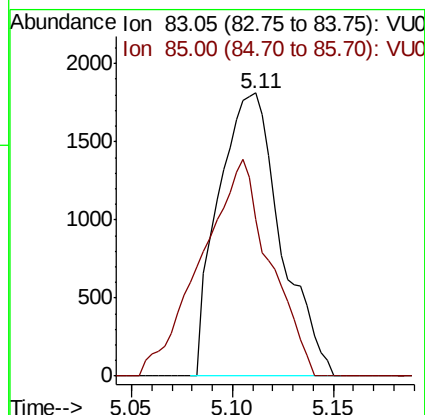
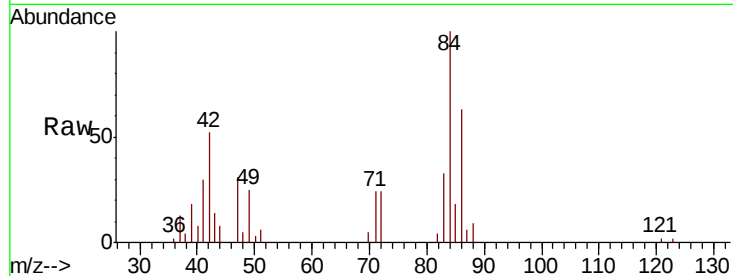




#25
Chloroform
Concen: 0.196 ug/L
RT: 5.11 min Scan# 1173
Delta R.T. 0.01 min
Lab File: VU040204.D
Acq: 18 Sep 2020 12:34

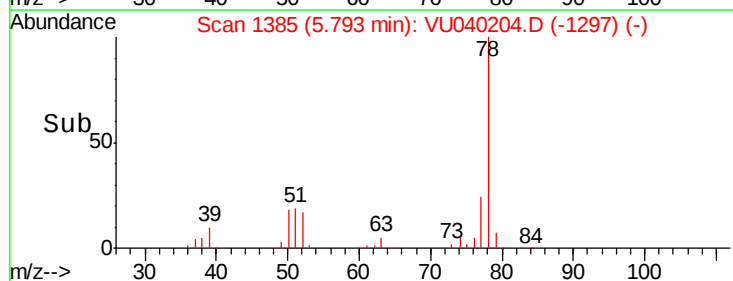
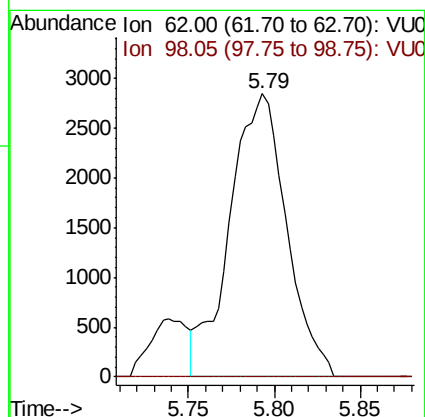
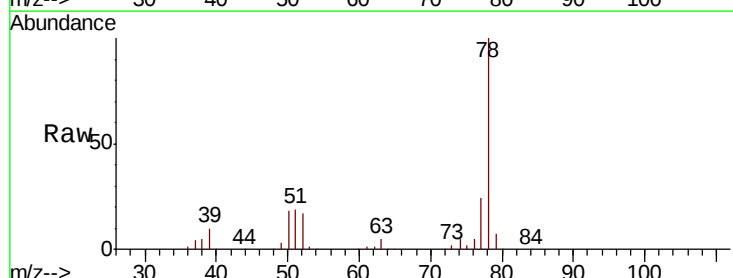
Instrument :
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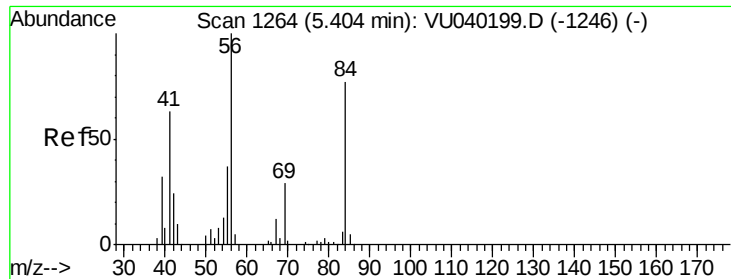
Tot Ion: 83 Resp: 3886
Ion Ratio Lower Upper
83 100
85 55.1 45.3 84.1



#27
1,2-Dichloroethane
Concen: 0.449 ug/L
RT: 5.79 min Scan# 1385
Delta R.T. -0.02 min
Lab File: VU040204.D
Acq: 18 Sep 2020 12:34

Tgt Ion: 62 Resp: 6521
Ion Ratio Lower Upper
62 100
98 0.0 6.1 9.1#

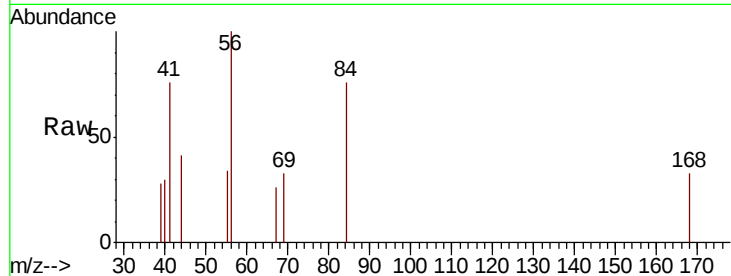




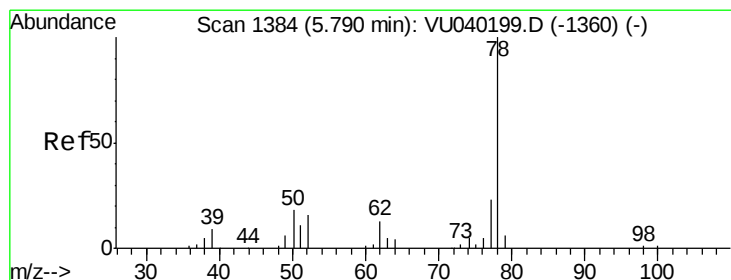
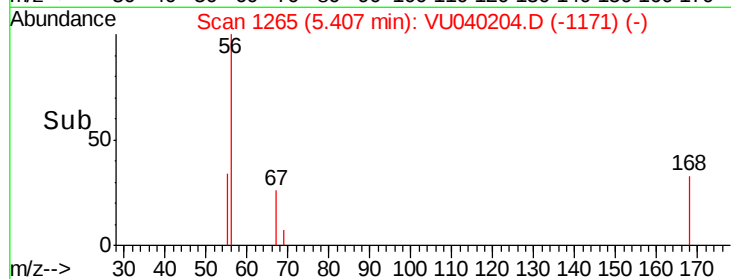
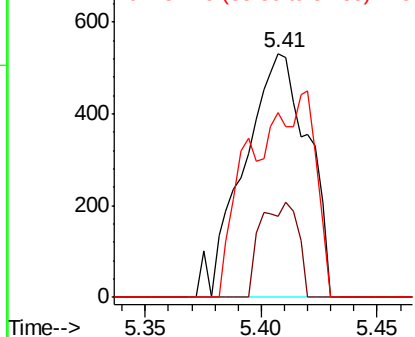
#30
Cyclohexane
Concen: 0.062 ug/L
RT: 5.41 min Scan# 1265
Delta R.T. 0.00 min
Lab File: VU040204.D
Acq: 18 Sep 2020 12:34

Instrument :
MSVOA_U
ClientSampleId :
BG0N9DL

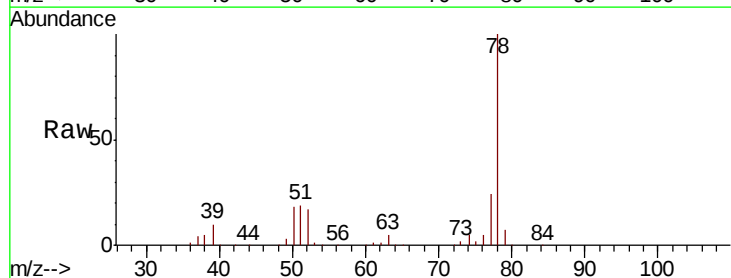
Tot Ion: 56 Resp: 1019
Ion Ratio Lower Upper
56 100
69 22.8 24.1 36.1#
84 60.5 65.0 97.4#



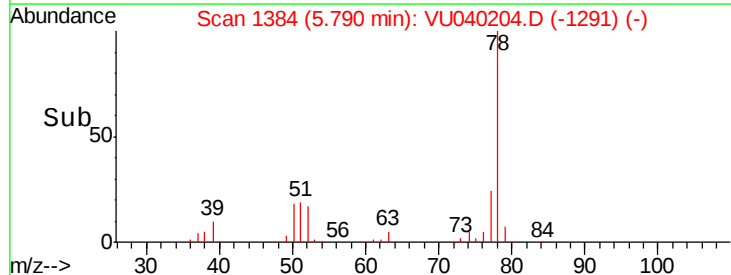
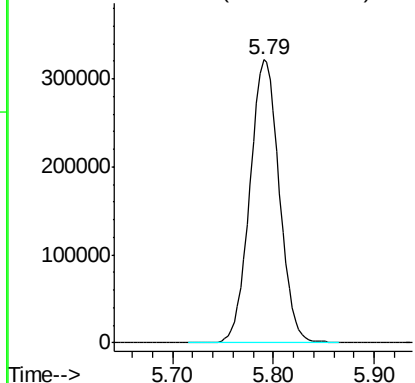
Abundance Ion 56.10 (55.80 to 56.80): VU0
Ion 69.15 (68.85 to 69.85): VU0
Ion 84.15 (83.85 to 84.85): VU0

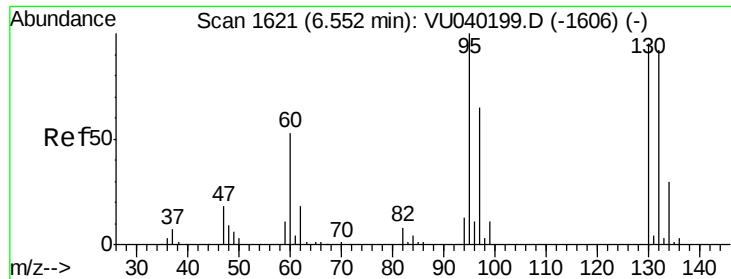


#33
Benzene
Concen: 16.628 ug/L
RT: 5.79 min Scan# 1384
Delta R.T. -0.00 min
Lab File: VU040204.D
Acq: 18 Sep 2020 12:34
Tgt Ion: 78 Resp: 647285



Abundance Ion 78.10 (77.80 to 78.80): VU0

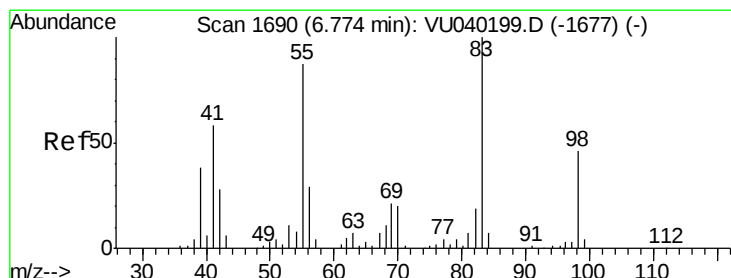
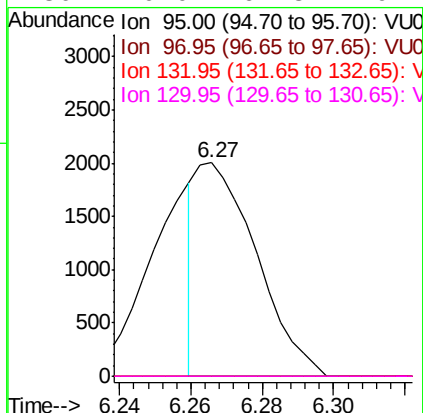
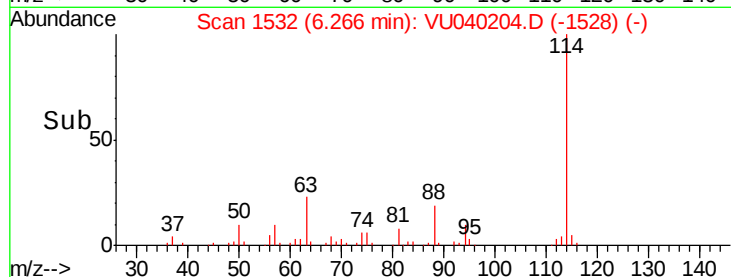
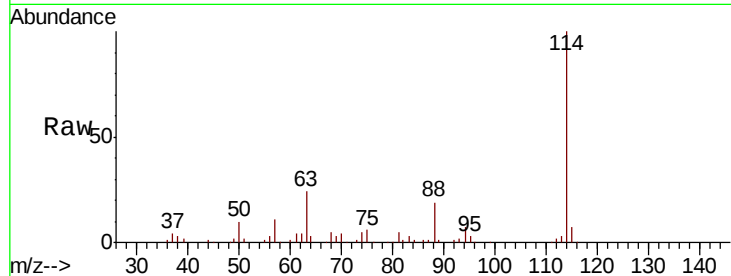




#34
 Trichloroethene
 Concen: 0.222 ug/L
 RT: 6.27 min Scan# 1532
 Delta R.T. -0.29 min
 Lab File: VU040204.D
 Acq: 18 Sep 2020 12:34

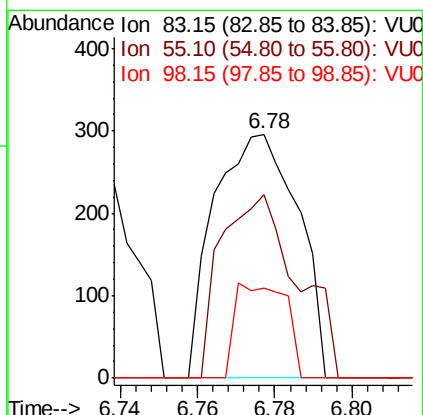
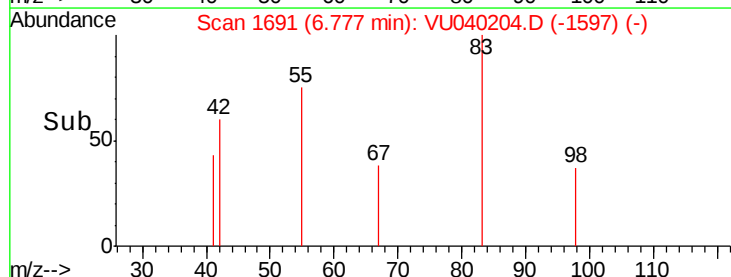
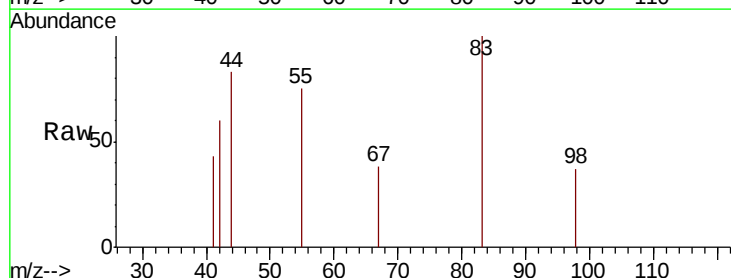
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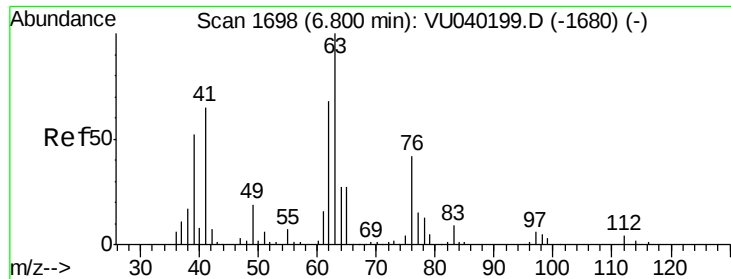
Tot Ion: 95 Resp: 2318
 Ion Ratio Lower Upper
 95 100
 97 0.0 43.3 80.5#
 132 0.0 59.4 110.4#
 130 0.0 64.8 120.4#



#35
 Methylcyclohexane
 Concen: 0.028 ug/L
 RT: 6.78 min Scan# 1691
 Delta R.T. 0.00 min
 Lab File: VU040204.D
 Acq: 18 Sep 2020 12:34

Tgt Ion: 83 Resp: 446
 Ion Ratio Lower Upper
 83 100
 55 68.8 70.5 105.7#
 98 23.1 37.8 56.6#

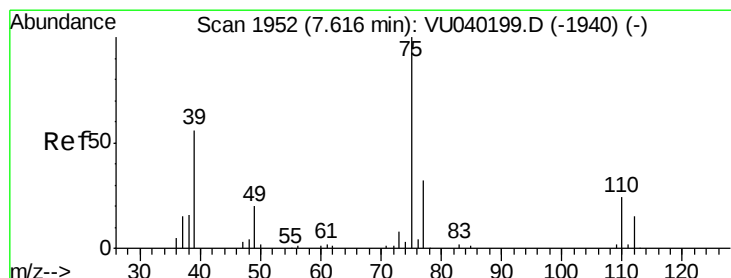
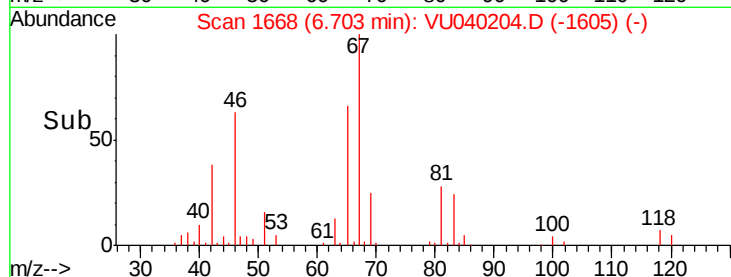
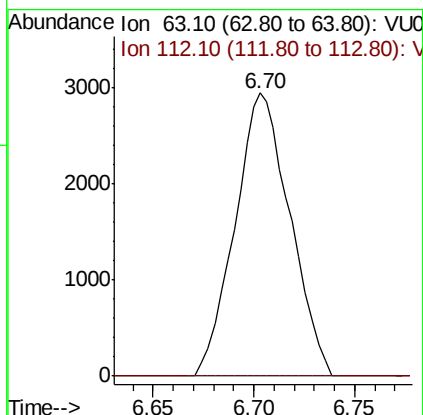
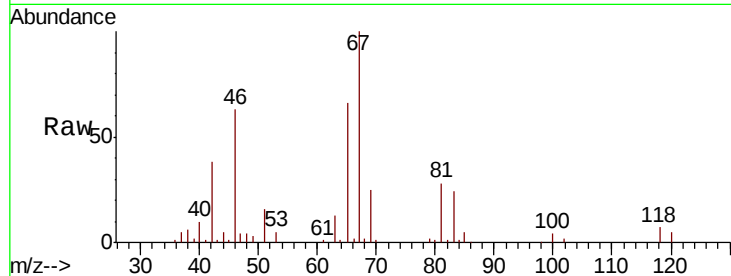




#37
 1,2-Dichloropropane
 Concen: 0.531 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.10 min
 Lab File: VU040204.D
 Acq: 18 Sep 2020 12:34

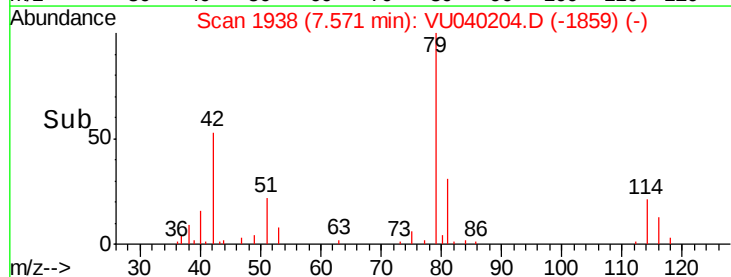
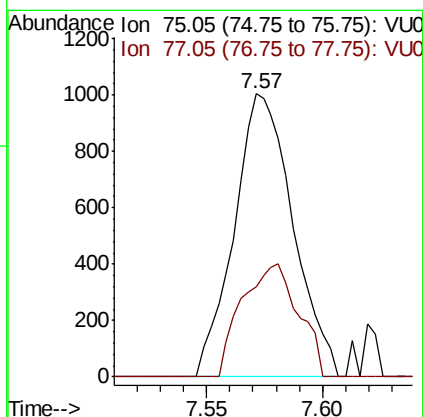
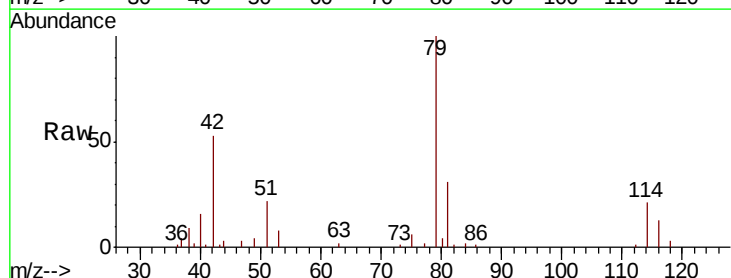
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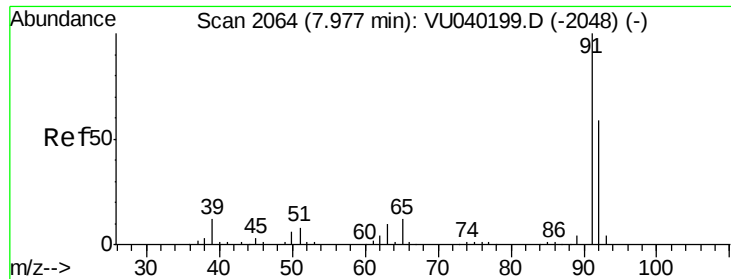
Tot Ion: 63 Resp: 5594
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.2 4.8#



#39
 cis-1,3-Dichloropropene
 Concen: 0.114 ug/L
 RT: 7.57 min Scan# 1938
 Delta R.T. -0.05 min
 Lab File: VU040204.D
 Acq: 18 Sep 2020 12:34

Tgt Ion: 75 Resp: 1769
 Ion Ratio Lower Upper
 75 100
 77 32.1 21.1 39.3





#42

Toluene

Concen: 0.065 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. -0.00 min

Lab File: VU040204.D

Acq: 18 Sep 2020 12:34

Instrument :

MSVOA_U

ClientSampleID :

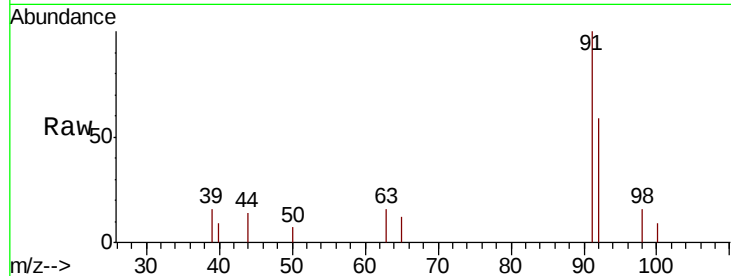
BG0N9DL

Tot Ion: 91 Resp: 2622

Ion Ratio Lower Upper

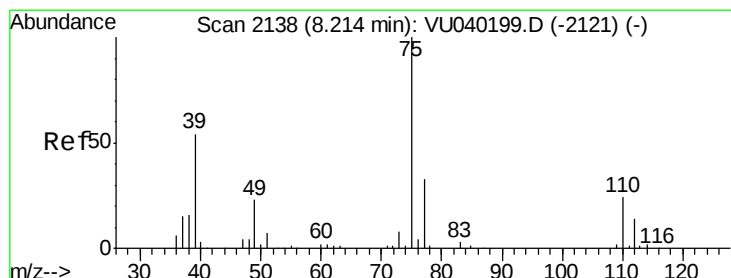
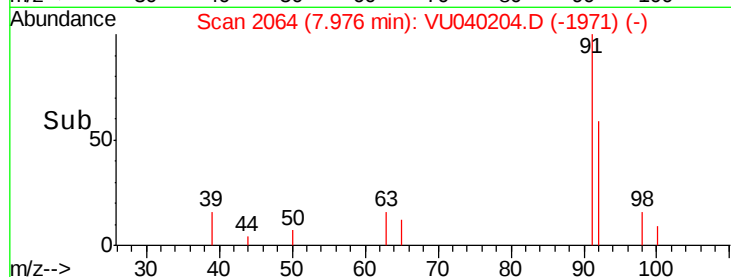
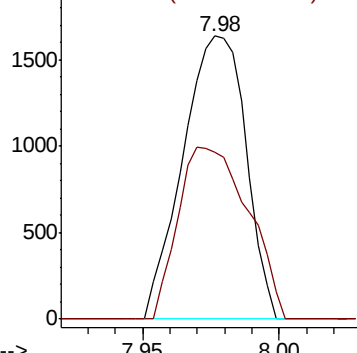
91 100

92 58.8 40.7 75.5



Abundance Ion 91.15 (90.85 to 91.85): VU040199.D (-2048) (-)

Ion 92.15 (91.85 to 92.85): VU040199.D (-2048) (-)



#44

trans-1,3-Dichloropropene

Concen: 0.072 ug/L

RT: 8.20 min Scan# 2132

Delta R.T. -0.02 min

Lab File: VU040204.D

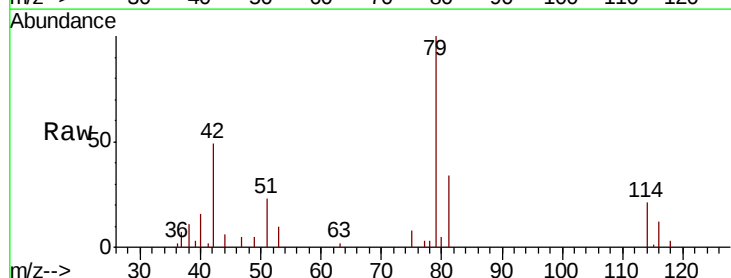
Acq: 18 Sep 2020 12:34

Tgt Ion: 75 Resp: 1041

Ion Ratio Lower Upper

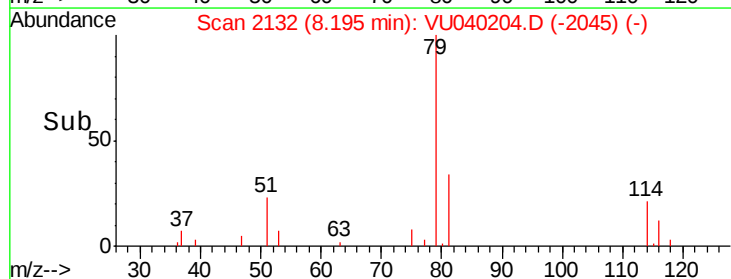
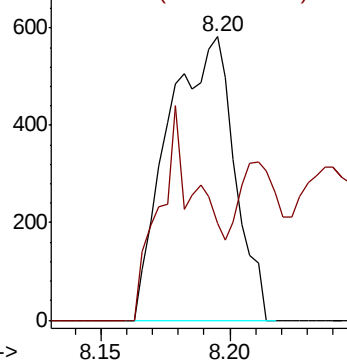
75 100

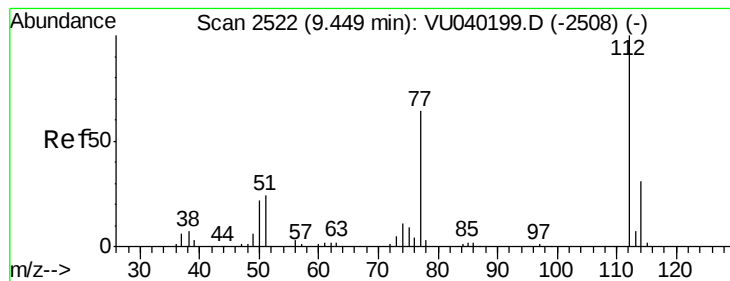
77 34.2 23.9 44.3



Abundance Ion 75.05 (74.75 to 75.75): VU040199.D (-2121) (-)

Ion 77.05 (76.75 to 77.75): VU040199.D (-2121) (-)





#51

Chlorobenzene

Concen: 8.510 ug/L

RT: 9.45 min Scan# 2522

Delta R.T. -0.00 min

Lab File: VU040204.D

Acq: 18 Sep 2020 12:34

Instrument :

MSVOA_U

ClientSampleId :

BG0N9DL

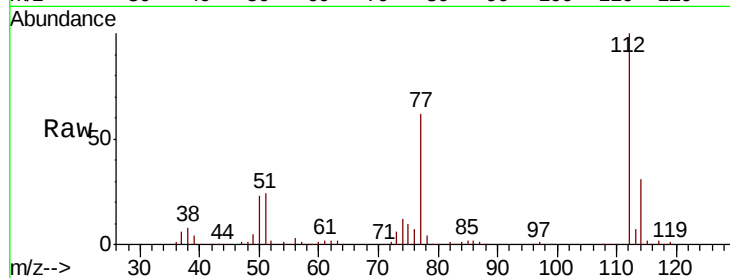
Tot Ion:112 Resp: 211811

Ion Ratio Lower Upper

112 100

114 30.8 22.7 42.3

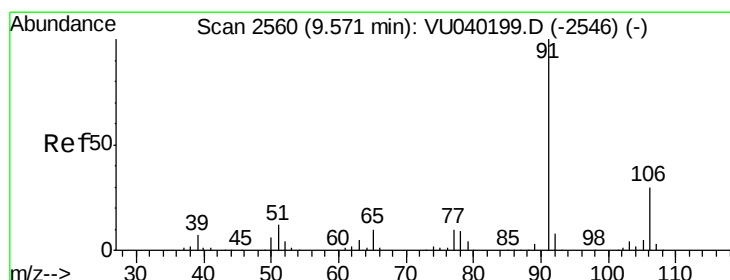
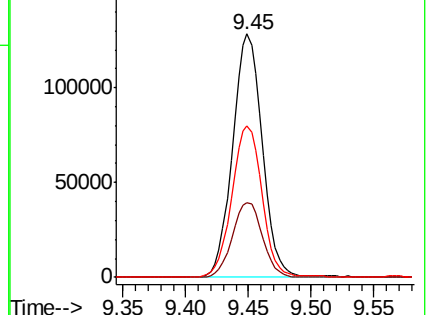
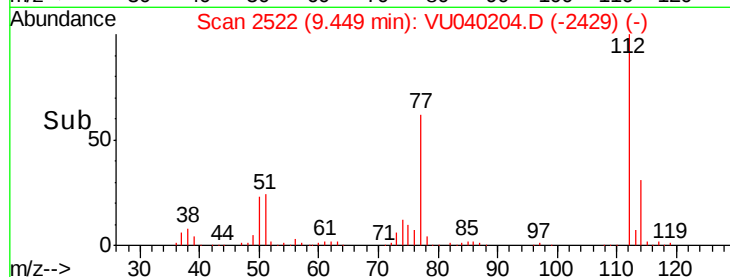
77 62.3 53.2 79.8



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU



#52

Ethylbenzene

Concen: 0.166 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. -0.00 min

Lab File: VU040204.D

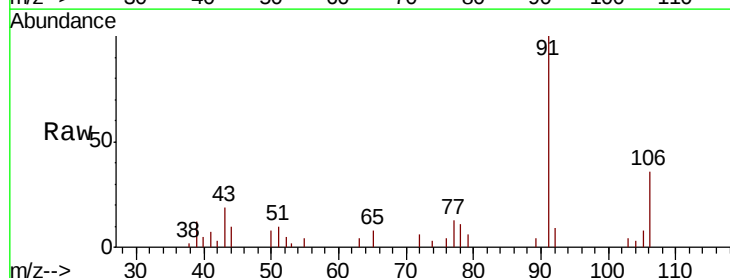
Acq: 18 Sep 2020 12:34

Tgt Ion: 91 Resp: 7567

Ion Ratio Lower Upper

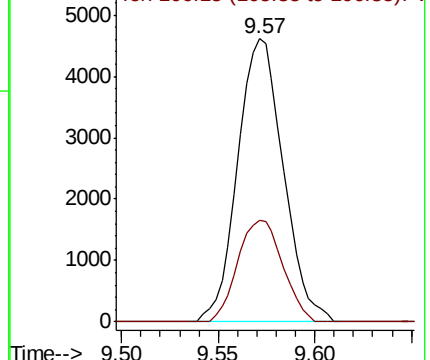
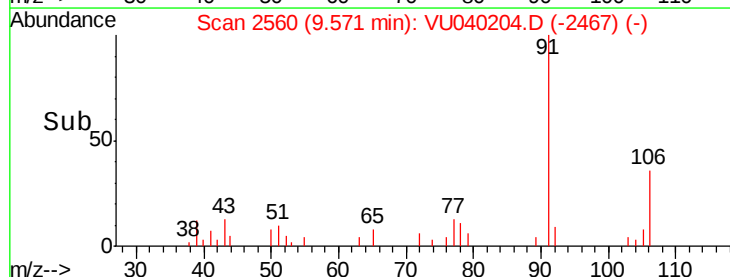
91 100

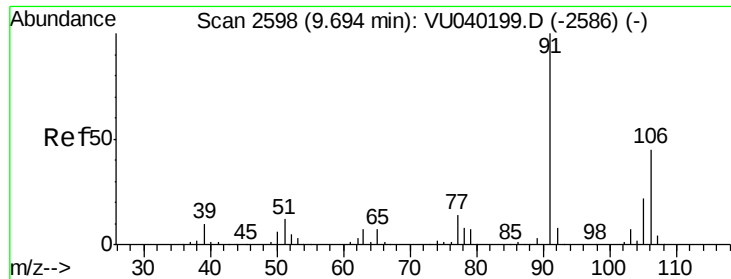
106 35.7 21.0 39.0



Abundance Ion 91.15 (90.85 to 91.85): VU

Ion 106.15 (105.85 to 106.85): V





#53

m,p-Xylene

Concen: 0.988 ug/L

RT: 9.70 min Scan# 2599

Delta R.T. 0.00 min

Lab File: VU040204.D

Acq: 18 Sep 2020 12:34

Instrument :

MSVOA_U

ClientSampleId :

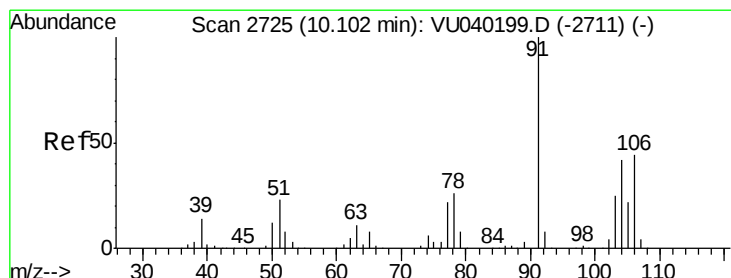
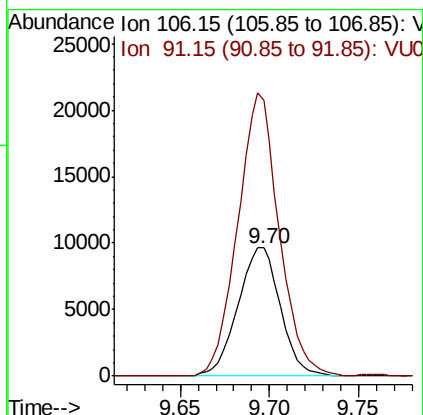
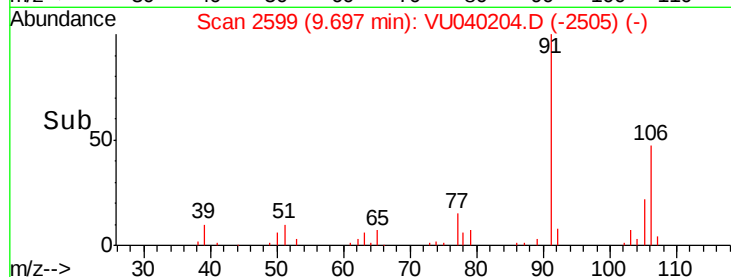
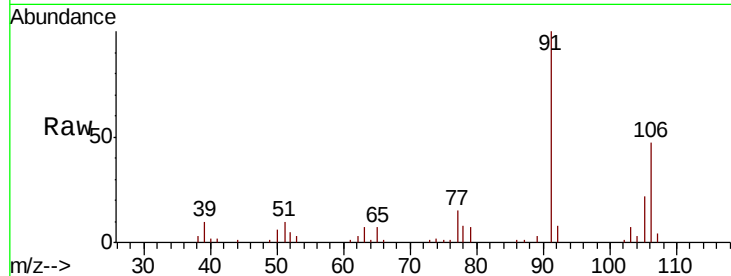
BG0N9DL

Tot Ion:106 Resp: 16021

Ion Ratio Lower Upper

106 100

91 214.5 151.7 281.7



#54

o-Xylene

Concen: 0.260 ug/L

RT: 10.10 min Scan# 2725

Delta R.T. -0.00 min

Lab File: VU040204.D

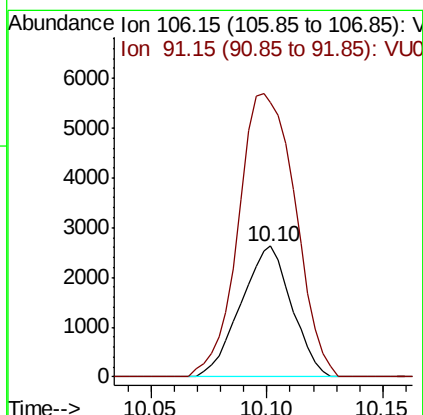
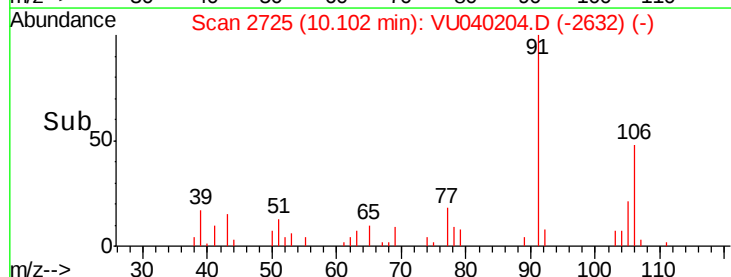
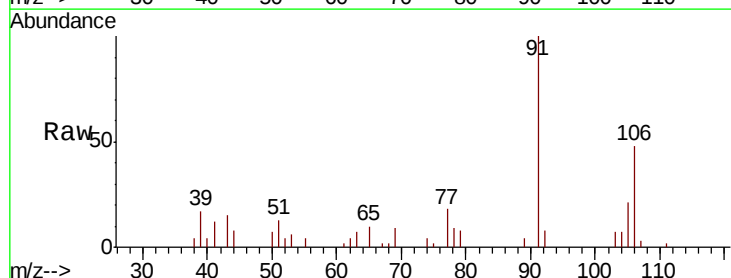
Acq: 18 Sep 2020 12:34

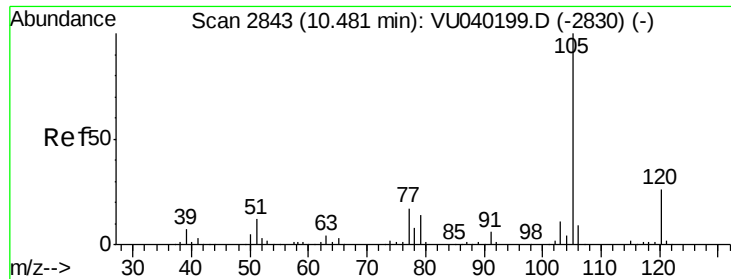
Tgt Ion:106 Resp: 4014

Ion Ratio Lower Upper

106 100

91 210.0 160.8 298.6





#56

Isopropylbenzene

Concen: 0.753 ug/L

RT: 10.48 min Scan# 2843

Delta R.T. -0.00 min

Lab File: VU040204.D

Acq: 18 Sep 2020 12:34

Instrument :

MSVOA_U

ClientSampleId :

BG0N9DL

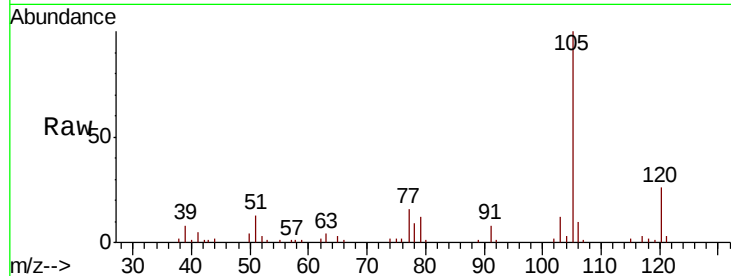
Tot Ion:105 Resp: 31719

Ion Ratio Lower Upper

105 100

120 25.9 20.1 30.1

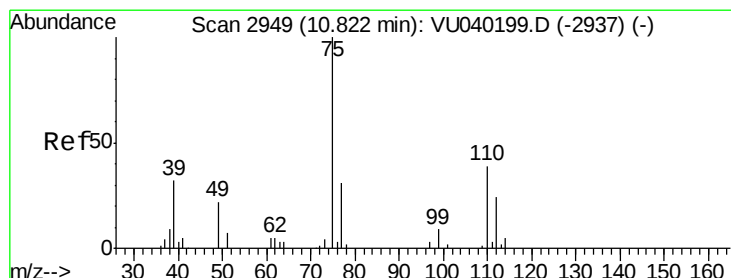
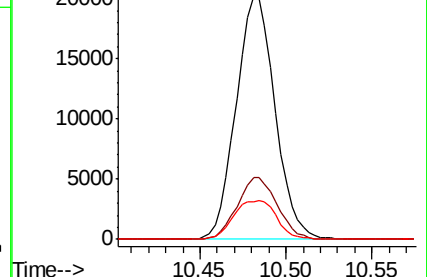
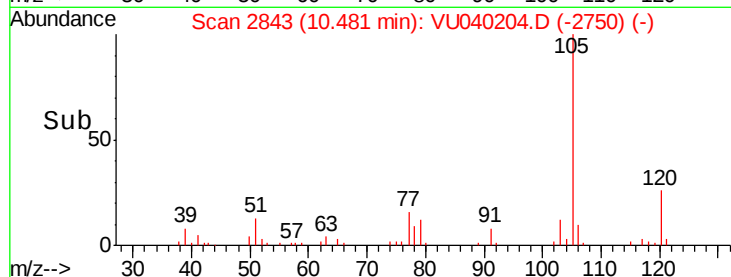
77 17.5 14.4 21.6



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): VU



#59

1,2,3-Trichloropropane

Concen: 1.183 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU040204.D

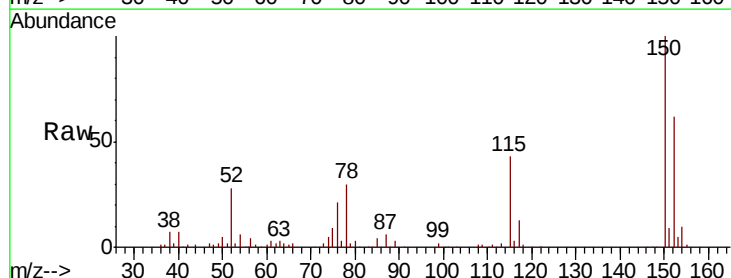
Acq: 18 Sep 2020 12:34

Tgt Ion: 75 Resp: 9236

Ion Ratio Lower Upper

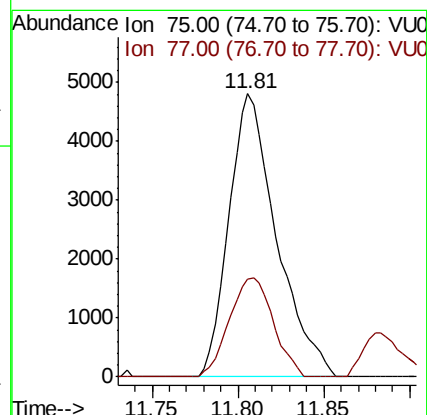
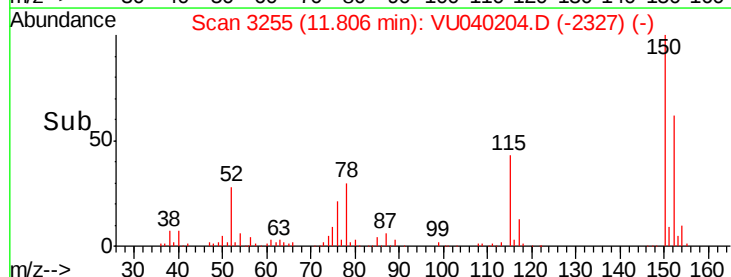
75 100

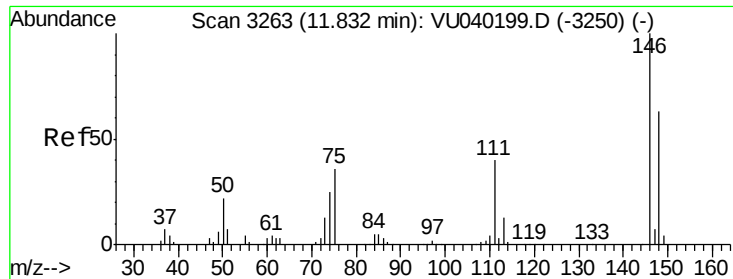
77 0.0 24.9 37.3#



Abundance Ion 75.00 (74.70 to 75.70): VU

Ion 77.00 (76.70 to 77.70): VU





#63

1,4-Dichlorobenzene

Concen: 0.240 ug/L

RT: 11.83 min Scan# 3263

Delta R.T. -0.00 min

Lab File: VU040204.D

Acq: 18 Sep 2020 12:34

Instrument :

MSVOA_U

ClientSampleId :

BG0N9DL

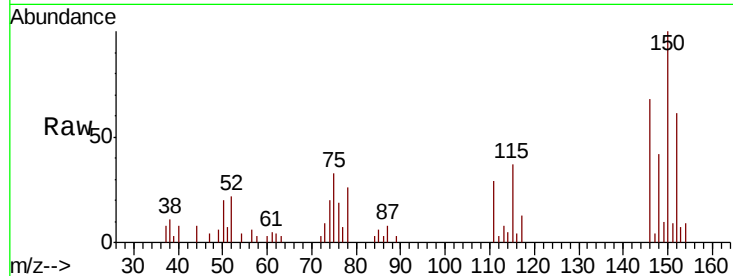
Tot Ion:146 Resp: 4472

Ion Ratio Lower Upper

146 100

111 42.0 30.5 56.7

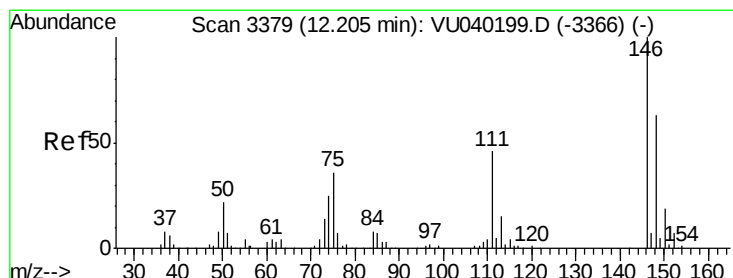
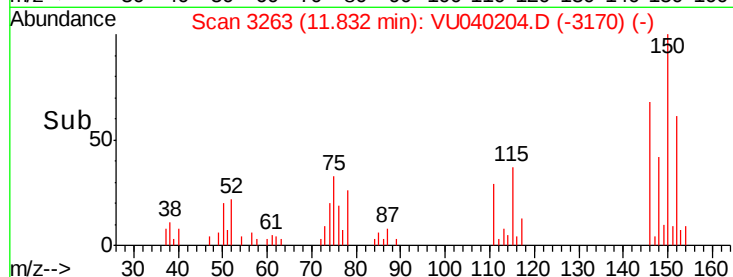
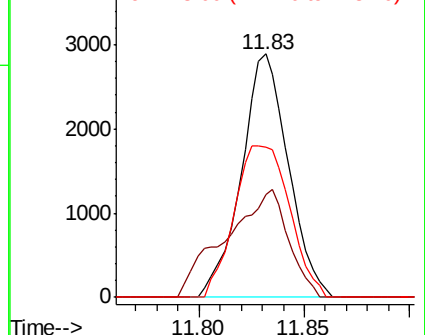
148 61.9 45.4 84.4



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,2-Dichlorobenzene

Concen: 0.197 ug/L

RT: 12.20 min Scan# 3378

Delta R.T. -0.00 min

Lab File: VU040204.D

Acq: 18 Sep 2020 12:34

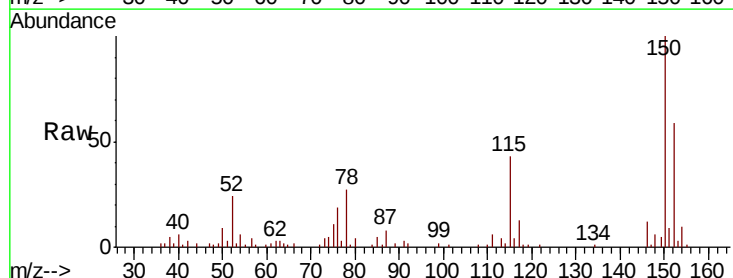
Tgt Ion:146 Resp: 3512

Ion Ratio Lower Upper

146 100

111 47.5 36.5 54.7

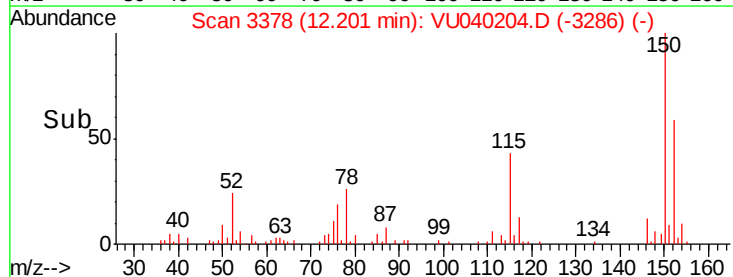
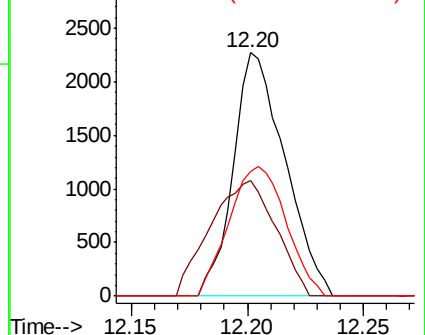
148 51.3 48.6 72.8

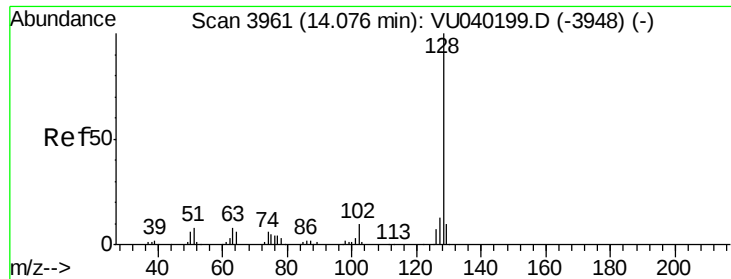


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#69

Naphthalene

Concen: 0.252 ug/L

RT: 14.08 min Scan# 3961

Delta R.T. -0.00 min

Lab File: VU040204.D

Acq: 18 Sep 2020 12:34

Instrument :

MSVOA_U

ClientSampleId :

BG0N9DL

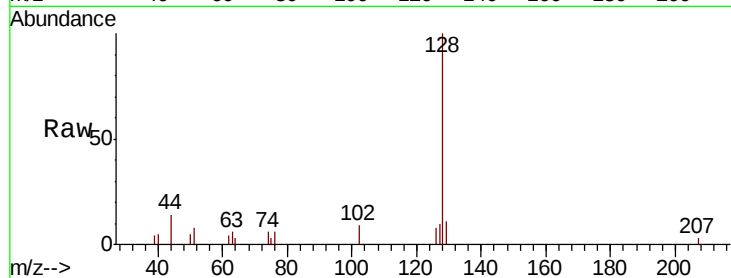
Tot Ion:128 Resp: 5874

Ion Ratio Lower Upper

128 100

129 9.3 8.7 13.1

127 11.0 10.7 16.1



Abundance Ion 128.00 (127.70 to 128.70): V

5000 Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

