

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U061720\
 Data File : VU038942.D
 Acq On : 17 Jun 2020 13:42
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jun 18 04:01:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR061720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Jun 17 14:56:26 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	295277	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	287174	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.82	152	152701	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	91050	4.44	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	88.80%
7) Chloroethane-d5	1.93	69	78233	4.54	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.80%
11) 1,1-Dichloroethene-d2	2.59	63	201608	4.85	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	97.00%
20) 2-Butanone-d5	4.68	46	325582	49.63	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	99.26%
24) Chloroform-d	5.10	84	197112	4.84	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.80%
26) 1,2-Dichloroethane-d4	5.74	65	113529	4.83	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.60%
32) Benzene-d6	5.76	84	379791	5.06	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.20%
36) 1,2-Dichloropropane-d6	6.72	67	116684	5.03	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.60%
41) Toluene-d8	7.92	98	340573	5.06	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.20%
43) trans-1,3-Dichloropropene-	8.20	79	54404	5.12	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	102.40%
46) 2-Hexanone-d5	8.65	63	310796	55.48	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	110.96%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	110530	5.06	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	101.20%
64) 1,2-Dichlorobenzene-d4	12.20	152	134571	4.72	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	94.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	134144	4.816	ug/L 100
3) Chloromethane	1.53	50	120159	4.339	ug/L 100
5) Vinyl chloride	1.62	62	128276	4.626	ug/L 99
6) Bromomethane	1.88	94	77100	4.893	ug/L 93
8) Chloroethane	1.95	64	77350	4.394	ug/L 97
9) Trichlorofluoromethane	2.16	101	223669	5.308	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	102693	4.739	ug/L 99
12) 1,1-Dichloroethene	2.60	96	102057	4.915	ug/L 88
13) Acetone	2.69	43	179906	40.240	ug/L 97
14) Carbon disulfide	2.82	76	336972	4.809	ug/L 99
15) Methyl Acetate	2.99	43	42519	3.889	ug/L 99
16) Methylene chloride	3.08	84	113694	4.760	ug/L 99
17) Methyl tert-butyl Ether	3.40	73	280102	5.131	ug/L 99
18) trans-1,2-Dichloroethene	3.39	96	107031	4.912	ug/L 100
19) 1,1-Dichloroethane	3.91	63	197045	4.981	ug/L 99
21) 2-Butanone	4.76	43	358104	50.634	ug/L 99
22) cis-1,2-Dichloroethene	4.71	96	116257	5.195	ug/L 96

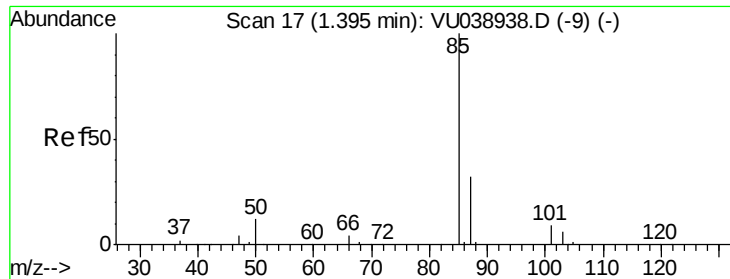
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061720\
 Data File : VU038942.D
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 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Jun 17 14:56:26 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.01	128	52595	4.961	ug/L	95
25) Chloroform	5.13	83	201956	5.012	ug/L	99
27) 1,2-Dichloroethane	5.83	62	141001	4.808	ug/L	100
29) 1,1,1-Trichloroethane	5.35	97	176381	4.951	ug/L	98
30) Cyclohexane	5.42	56	165897	4.908	ug/L	98
31) Carbon tetrachloride	5.56	117	152723	4.863	ug/L	99
33) Benzene	5.81	78	434856	5.069	ug/L	100
34) Trichloroethene	6.57	95	110224	5.064	ug/L	99
35) Methylcyclohexane	6.79	83	171610	4.973	ug/L	99
37) 1,2-Dichloropropane	6.82	63	112387	5.017	ug/L	100
38) Bromodichloromethane	7.13	83	147160	5.051	ug/L	98
39) cis-1,3-Dichloropropene	7.63	75	173968	5.285	ug/L	99
40) 4-Methyl-2-pentanone	7.82	43	842794	54.598	ug/L	100
42) Toluene	7.99	91	460952	5.188	ug/L	100
44) trans-1,3-Dichloropropene	8.23	75	161934	5.351	ug/L	99
45) 1,1,2-Trichloroethane	8.42	97	89954	5.409	ug/L	96
47) Tetrachloroethene	8.57	164	82405	4.886	ug/L	95
48) 2-Hexanone	8.71	43	644218	55.089	ug/L	100
49) Dibromochloromethane	8.83	129	102480	5.145	ug/L	98
50) 1,2-Dibromoethane	8.94	107	85226	5.126	ug/L	96
51) Chlorobenzene	9.47	112	289567	5.014	ug/L	98
52) Ethylbenzene	9.59	91	494453	5.144	ug/L	99
53) m,p-Xylene	9.71	106	189767	5.117	ug/L	98
54) o-Xylene	10.11	106	185138	5.211	ug/L	98
55) Styrene	10.13	104	324953	5.307	ug/L	99
56) Isopropylbenzene	10.50	105	479718	5.073	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.80	83	114571	4.991	ug/L	99
59) 1,2,3-Trichloropropane	10.84	75	86431	5.003	ug/L	98
61) Bromoform	10.31	173	62776	5.080	ug/L	97
62) 1,3-Dichlorobenzene	11.76	146	238968	5.033	ug/L	98
63) 1,4-Dichlorobenzene	11.85	146	240669	4.925	ug/L	98
65) 1,2-Dichlorobenzene	12.22	146	230687	4.922	ug/L	98
66) 1,2-Dibromo-3-chloropropan	13.01	75	21765	4.606	ug/L	97
67) 1,3,5-Trichlorobenzene	13.24	180	181589	4.696	ug/L	99
68) 1,2,4-trichlorobenzene	13.87	180	170502	4.884	ug/L	98
69) Naphthalene	14.11	128	350117	5.188	ug/L	100
70) 1,2,3-Trichlorobenzene	14.36	180	161708	4.999	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 4.816 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU038942.D

Acq: 17 Jun 2020 13:42

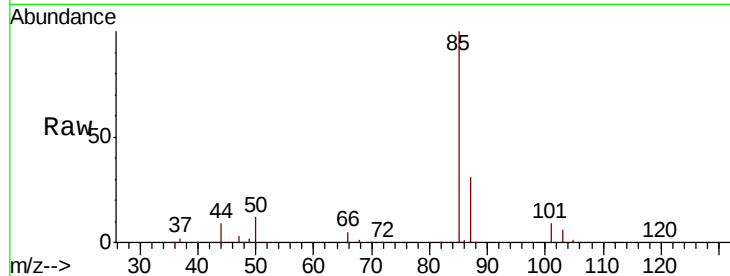
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 85 Resp: 134144

Ion Ratio Lower Upper

85 100

87 31.6 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU038938.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU038938.D (-9) (-)

1.39

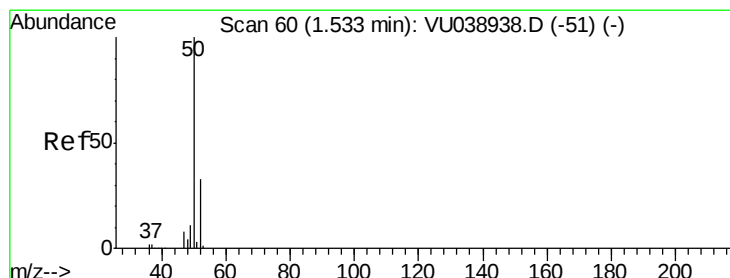
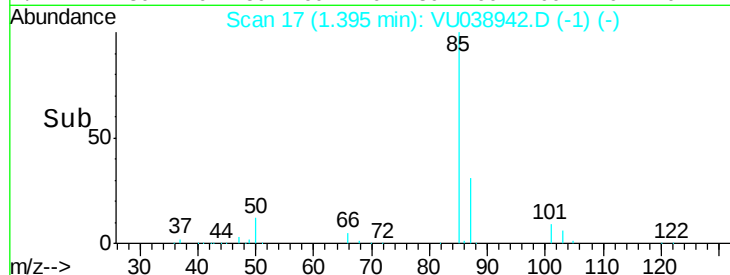
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 4.339 ug/L

RT: 1.53 min Scan# 60

Delta R.T. -0.00 min

Lab File: VU038942.D

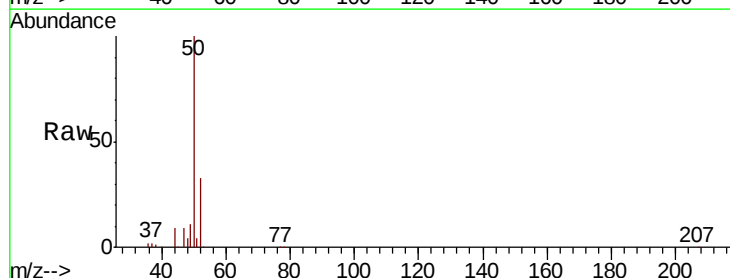
Acq: 17 Jun 2020 13:42

Tgt Ion: 50 Resp: 120159

Ion Ratio Lower Upper

50 100

52 33.2 23.2 43.2



Abundance Ion 50.05 (49.75 to 50.75): VU038938.D (-51) (-)

Ion 52.05 (51.75 to 52.75): VU038938.D (-51) (-)

1.53

120000

100000

80000

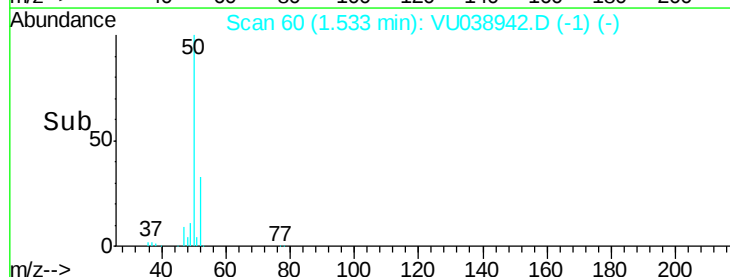
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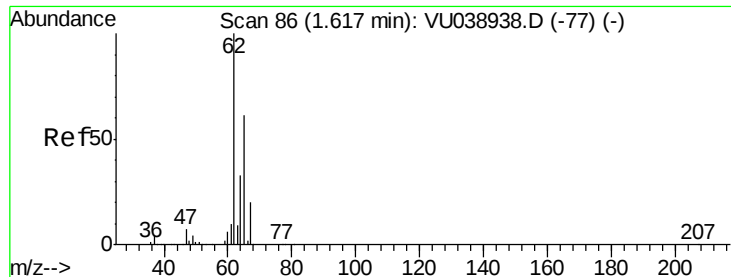
40000

20000

0

Time-->





#5

Vinyl chloride

Concen: 4.626 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU038942.D

Acq: 17 Jun 2020 13:42

Instrument :

MSVOA_U

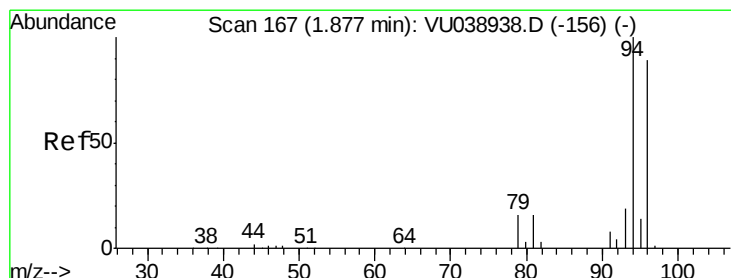
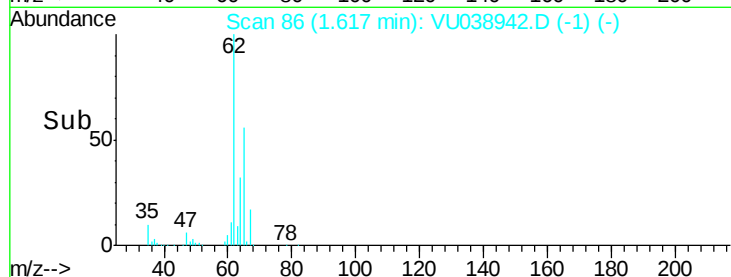
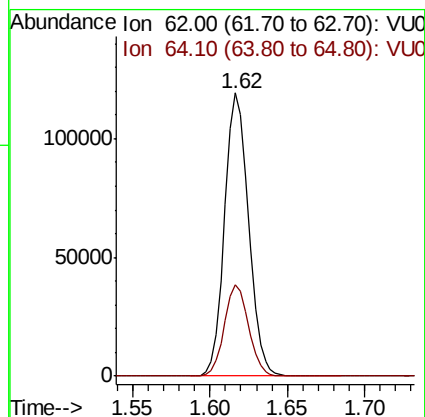
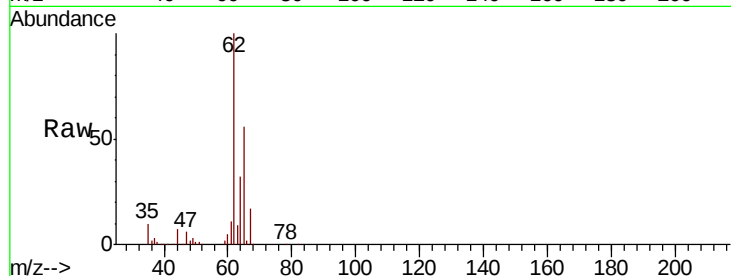
ClientSampleId :

Tot Ion: 62 Resp: 128276

Ion Ratio Lower Upper

62 100

64 32.2 23.1 42.9



#6

Bromomethane

Concen: 4.893 ug/L

RT: 1.88 min Scan# 167

Delta R.T. -0.00 min

Lab File: VU038942.D

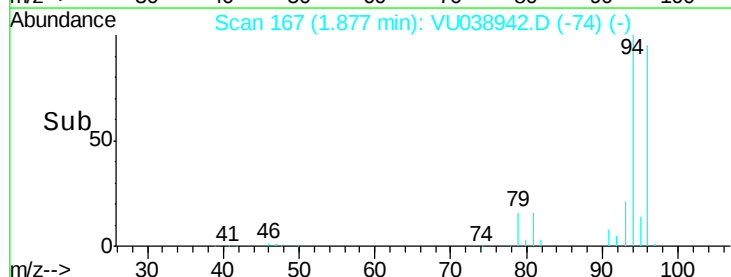
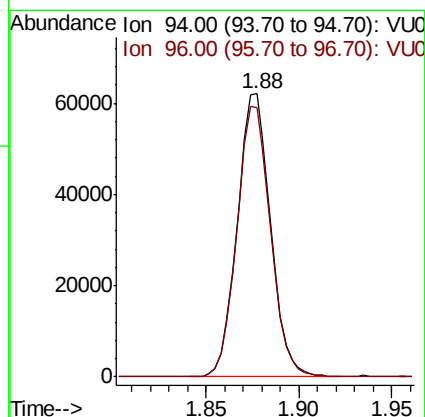
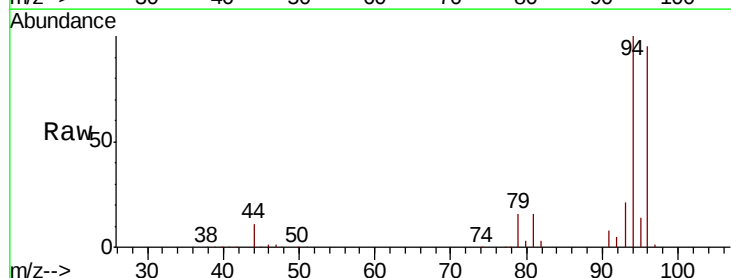
Acq: 17 Jun 2020 13:42

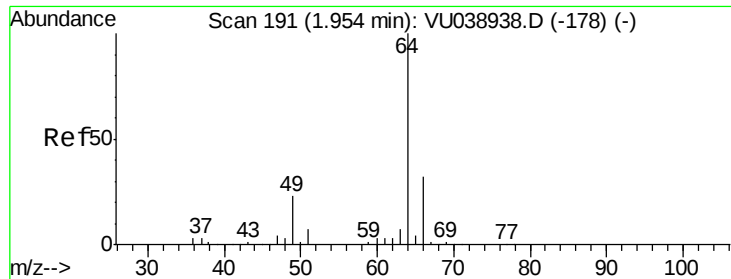
Tgt Ion: 94 Resp: 77100

Ion Ratio Lower Upper

94 100

96 95.4 62.3 115.7

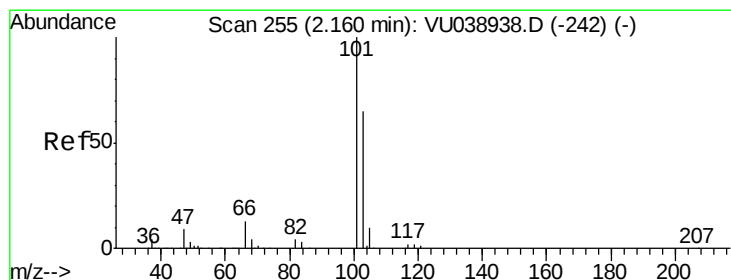
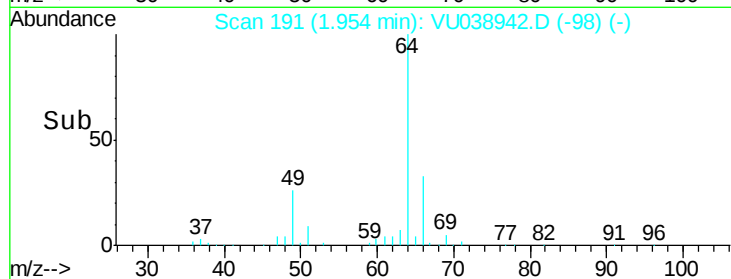
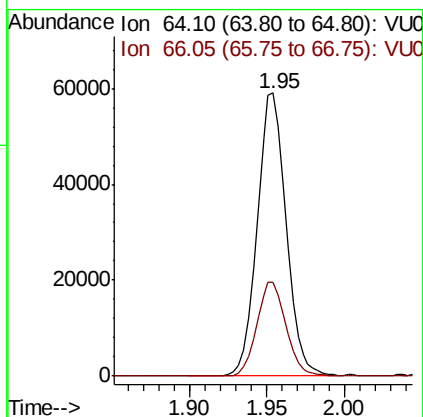
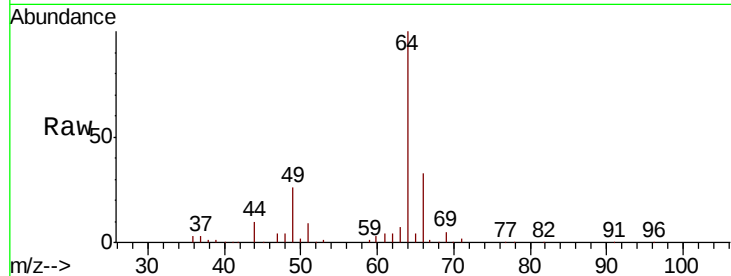




#8
Chloroethane
Concen: 4.394 ug/L
RT: 1.95 min Scan# 191
Delta R.T. -0.00 min
Lab File: VU038942.D
Acq: 17 Jun 2020 13:42

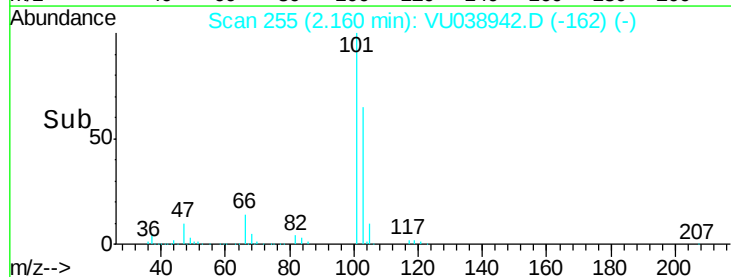
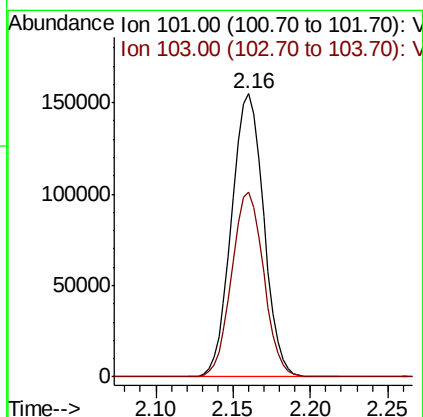
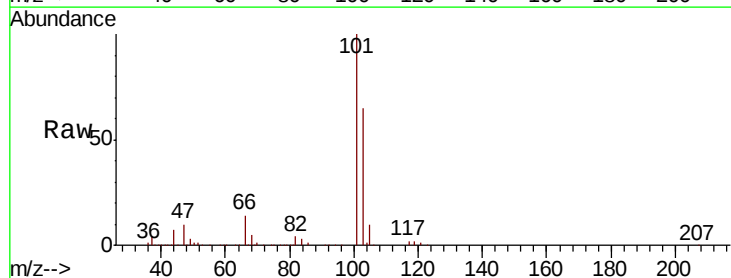
Instrument :
MSVOA_U
ClientSampled :

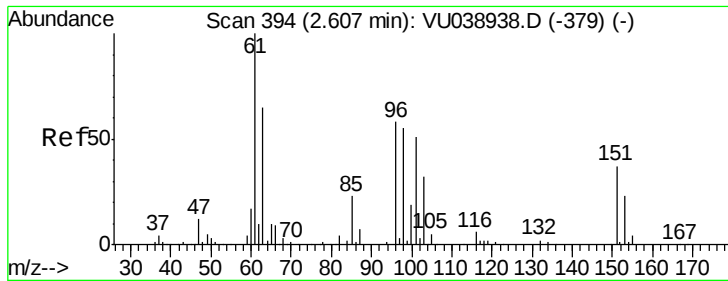
Tot Ion: 64 Resp: 77350
Ion Ratio Lower Upper
64 100
66 33.2 22.1 41.1



#9
Trichlorofluoromethane
Concen: 5.308 ug/L
RT: 2.16 min Scan# 255
Delta R.T. -0.00 min
Lab File: VU038942.D
Acq: 17 Jun 2020 13:42

Tgt Ion:101 Resp: 223669
Ion Ratio Lower Upper
101 100
103 64.8 51.4 77.2





#10

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

Concen: 4.739 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU038942.D

Acq: 17 Jun 2020 13:42

Instrument :

MSVOA_U

ClientSampled :

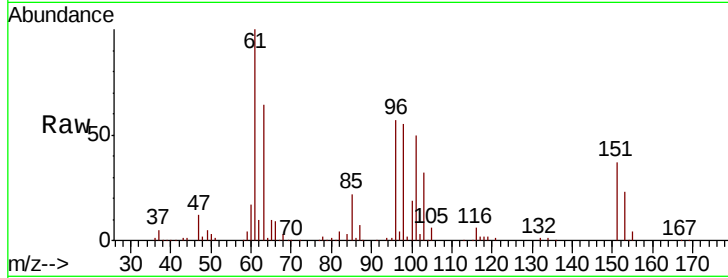
Tot Ion:101 Resp: 102693

Ion Ratio Lower Upper

101 100

85 42.8 35.7 53.5

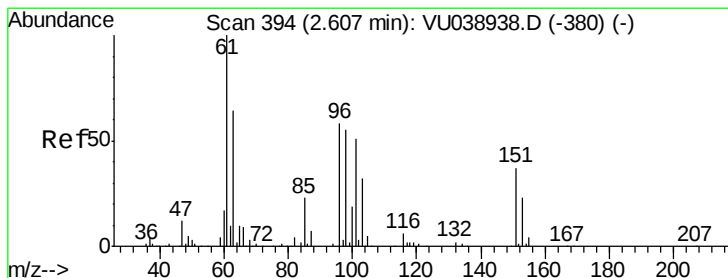
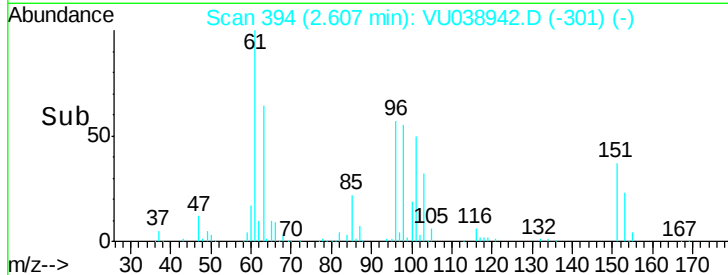
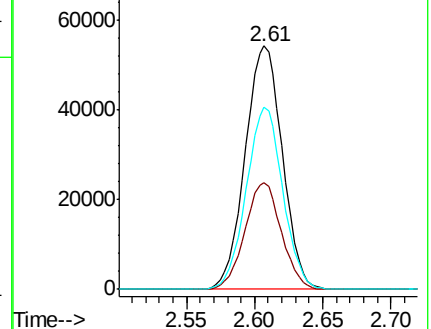
151 73.4 58.5 87.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 4.915 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU038942.D

Acq: 17 Jun 2020 13:42

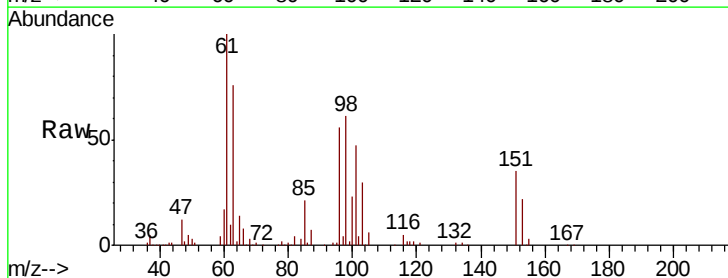
Tgt Ion: 96 Resp: 102057

Ion Ratio Lower Upper

96 100

61 179.1 120.3 223.5

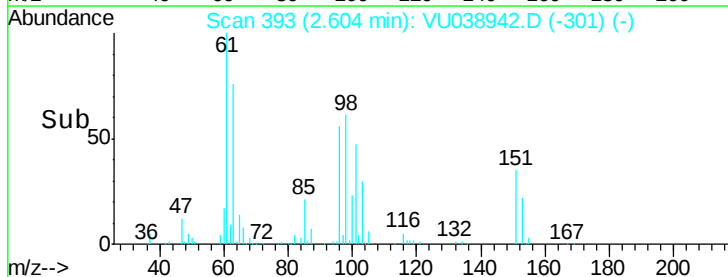
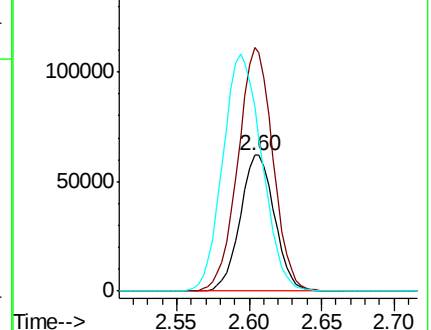
63 135.6 78.7 146.1

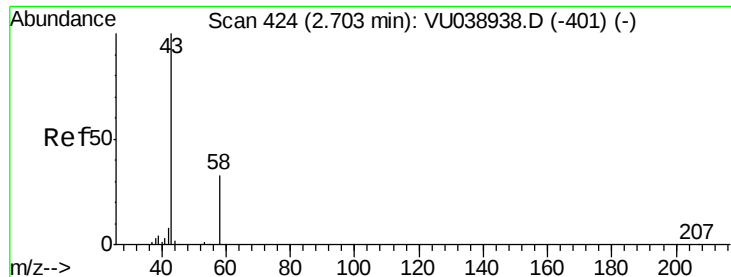


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 40.240 ug/L

RT: 2.69 min Scan# 419

Delta R.T. -0.02 min

Lab File: VU038942.D

Acq: 17 Jun 2020 13:42

Instrument :

MSVOA_U

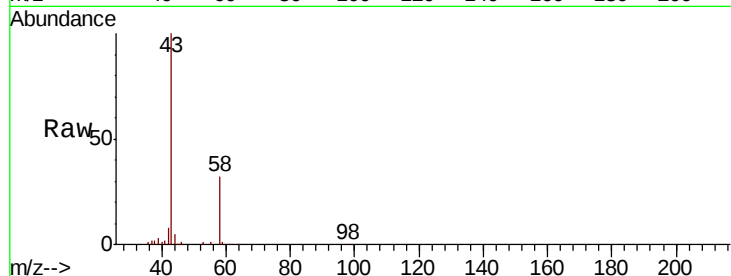
ClientSampleId :

Tot Ion: 43 Resp: 179906

Ion Ratio Lower Upper

43 100

58 31.0 0.0 65.0



Abundance Ion 43.05 (42.75 to 43.75): VU038938.D (-401) (-)

Ion 58.05 (57.75 to 58.75): VU038938.D (-401) (-)

2.69

40000

30000

20000

10000

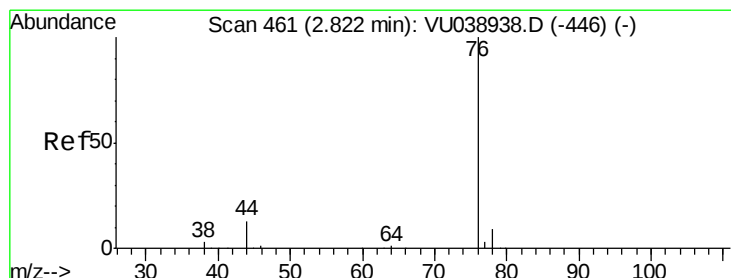
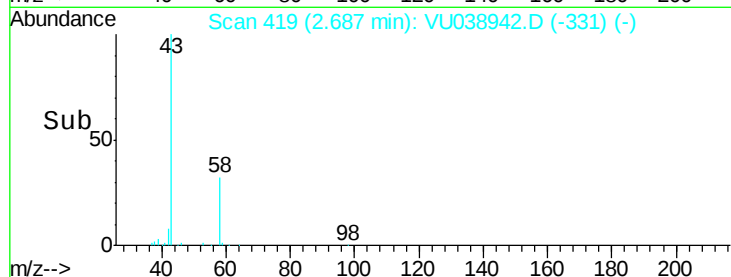
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Time-->

2.60

2.70

2.80



#14

Carbon disulfide

Concen: 4.809 ug/L

RT: 2.82 min Scan# 460

Delta R.T. -0.00 min

Lab File: VU038942.D

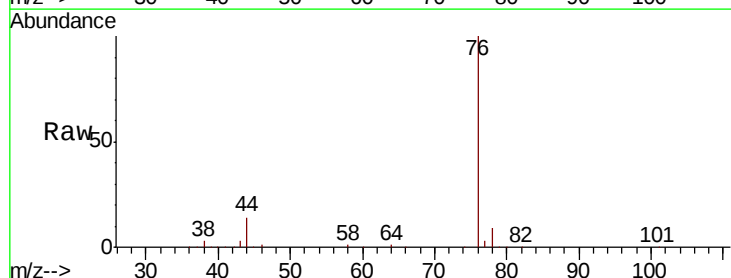
Acq: 17 Jun 2020 13:42

Tgt Ion: 76 Resp: 336972

Ion Ratio Lower Upper

76 100

78 8.7 7.4 11.0



Abundance Ion 76.05 (75.75 to 76.75): VU038938.D (-446) (-)

Ion 78.00 (77.70 to 78.70): VU038938.D (-446) (-)

2.82

200000

150000

100000

50000

0

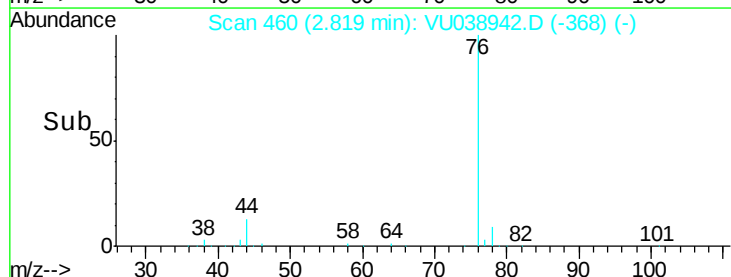
Time-->

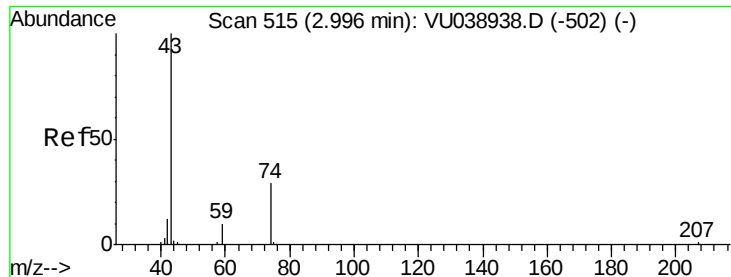
2.75

2.80

2.85

2.90





#15

Methvl Acetate

Concen: 3.889 ug/L

RT: 2.99 min Scan# 513

Delta R.T. -0.01 min

Lab File: VU038942.D

Acq: 17 Jun 2020 13:42

Instrument :

MSVOA_U

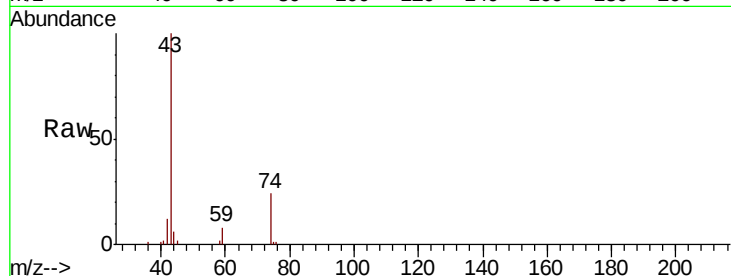
ClientSampled :

Tot Ion: 43 Resp: 42519

Ion Ratio Lower Upper

43 100

74 28.4 22.2 33.2



Abundance Ion 43.05 (42.75 to 43.75): VU038938.D (-502) (-)

Ion 74.05 (73.75 to 74.75): VU038938.D (-502) (-)

2.99

20000

15000

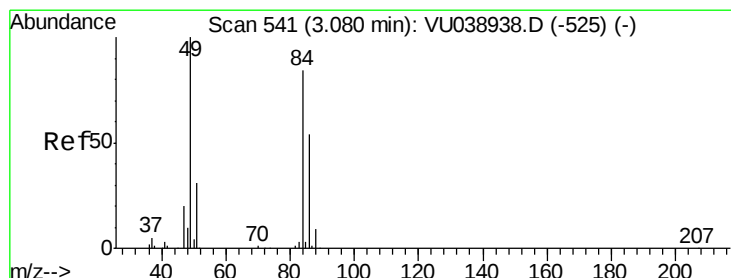
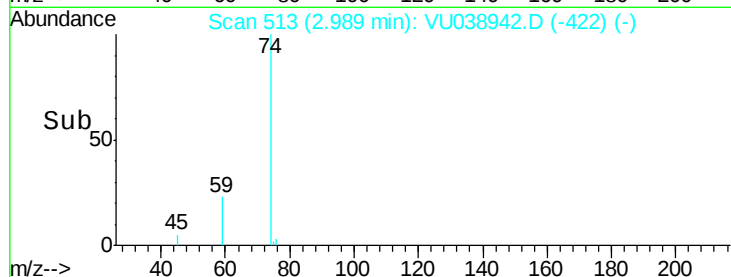
10000

5000

0

Time-->

2.90 2.95 3.00 3.05 3.10



#16

Methylene chloride

Concen: 4.760 ug/L

RT: 3.08 min Scan# 540

Delta R.T. -0.00 min

Lab File: VU038942.D

Acq: 17 Jun 2020 13:42

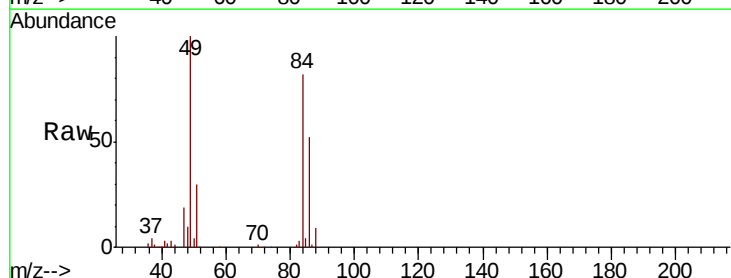
Tgt Ion: 84 Resp: 113694

Ion Ratio Lower Upper

84 100

86 63.7 45.1 83.7

49 121.5 83.7 155.4



Abundance Ion 84.05 (83.75 to 84.75): VU038938.D (-525) (-)

Ion 86.00 (85.70 to 86.70): VU038938.D (-525) (-)

Ion 49.10 (48.80 to 49.80): VU038938.D (-525) (-)

100000

80000

60000

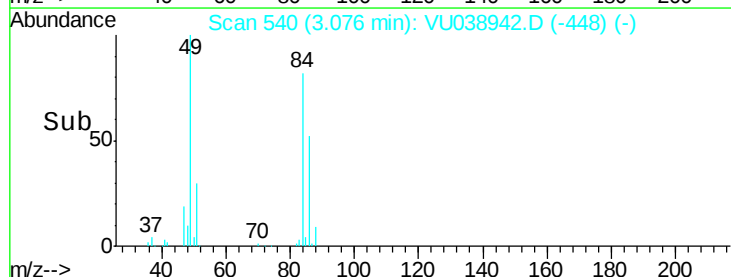
40000

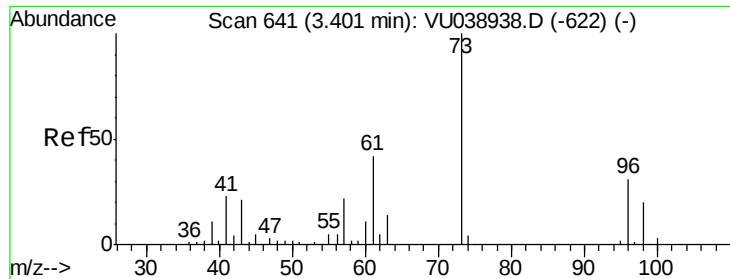
20000

0

Time-->

3.00 3.05 3.10 3.15 3.20

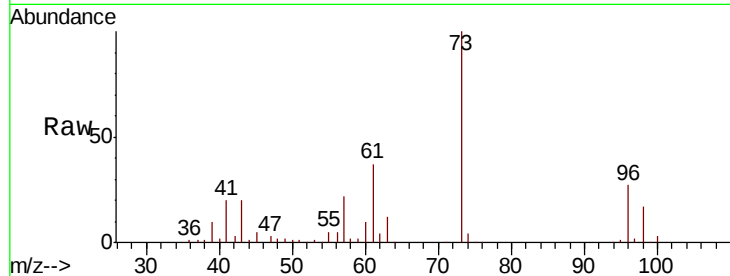




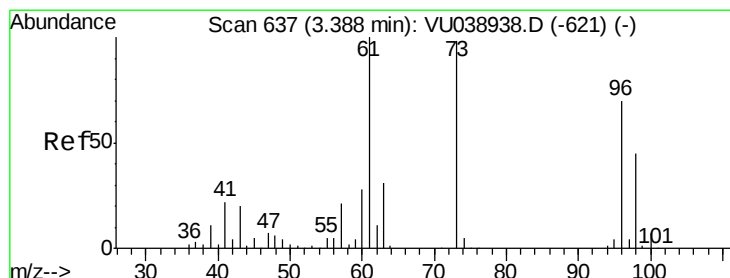
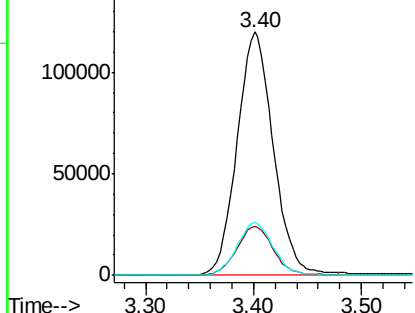
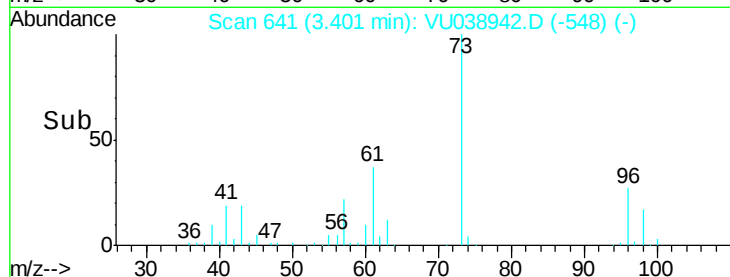
#17
Methvl tert-butvl Ether
Concen: 5.131 ug/L
RT: 3.40 min Scan# 641
Delta R.T. -0.00 min
Lab File: VU038942.D
Acq: 17 Jun 2020 13:42

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 73 Resp: 280102
Ion Ratio Lower Upper
73 100
43 20.4 17.0 25.4
57 21.8 17.7 26.5

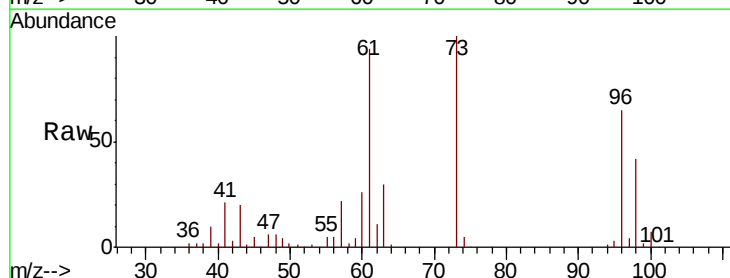


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

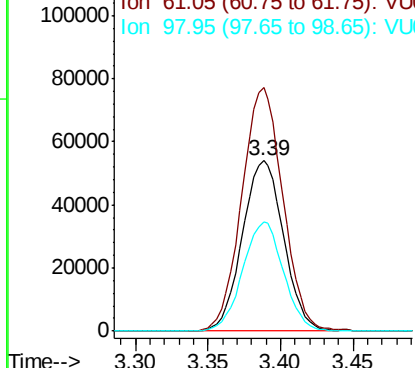
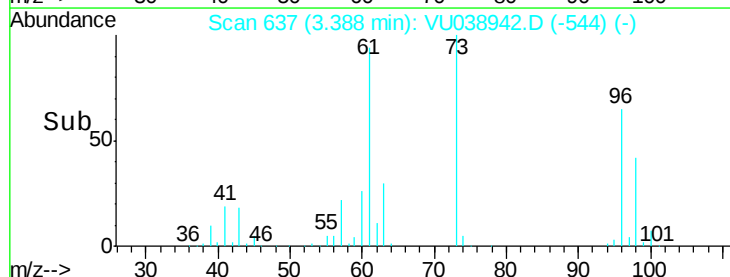


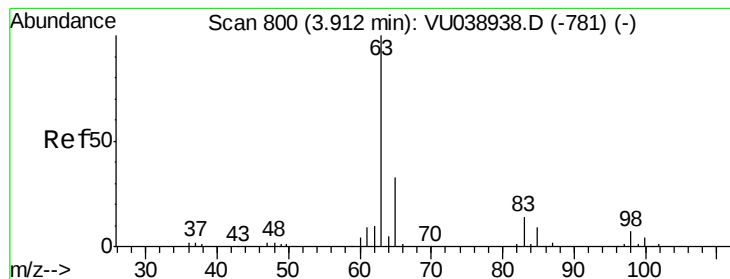
#18
trans-1,2-Dichloroethene
Concen: 4.912 ug/L
RT: 3.39 min Scan# 637
Delta R.T. -0.00 min
Lab File: VU038942.D
Acq: 17 Jun 2020 13:42

Tgt Ion: 96 Resp: 107031
Ion Ratio Lower Upper
96 100
61 143.2 100.3 186.3
98 64.6 45.4 84.2



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: 4.981 ug/L

RT: 3.91 min Scan# 799

Delta R.T. -0.00 min

Lab File: VU038942.D

Acq: 17 Jun 2020 13:42

Instrument :

MSVOA_U

ClientSampled :

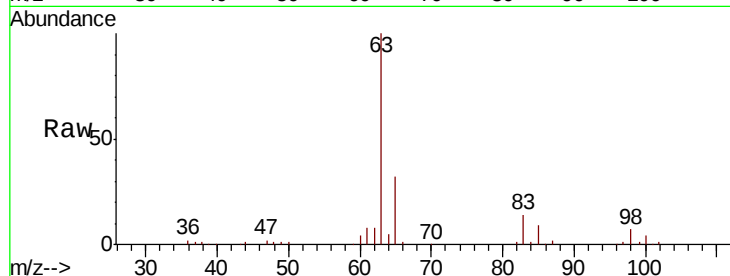
Tot Ion: 63 Resp: 197045

Ion Ratio Lower Upper

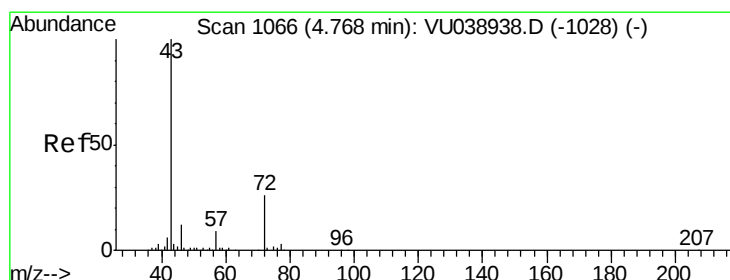
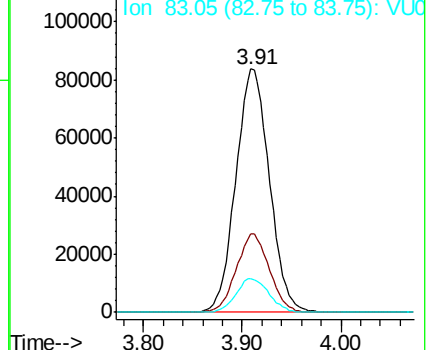
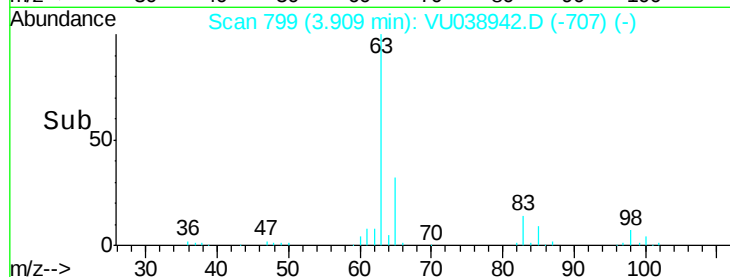
63 100

65 32.2 22.8 42.4

83 14.0 9.6 17.8



Abundance Ion 63.10 (62.80 to 63.80): VU038942.D (-707) (-)



#21

2-Butanone

Concen: 50.634 ug/L

RT: 4.76 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VU038942.D

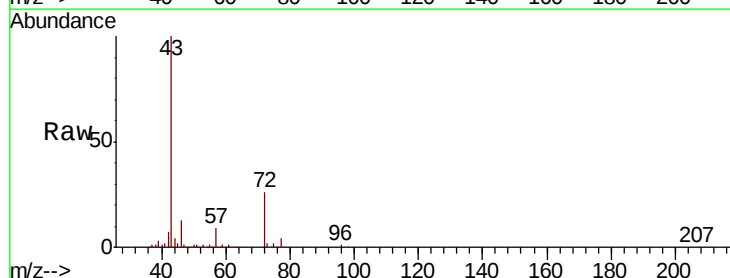
Acq: 17 Jun 2020 13:42

Tgt Ion: 43 Resp: 358104

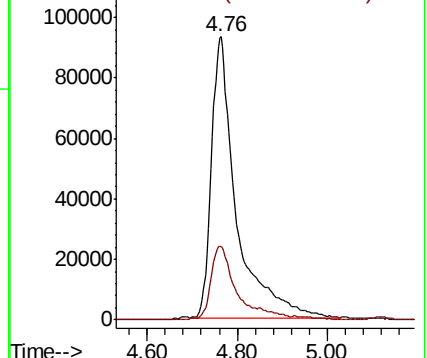
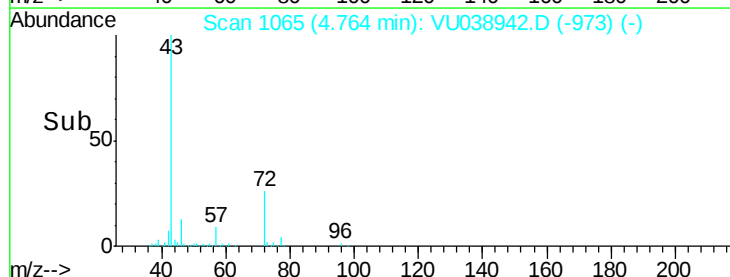
Ion Ratio Lower Upper

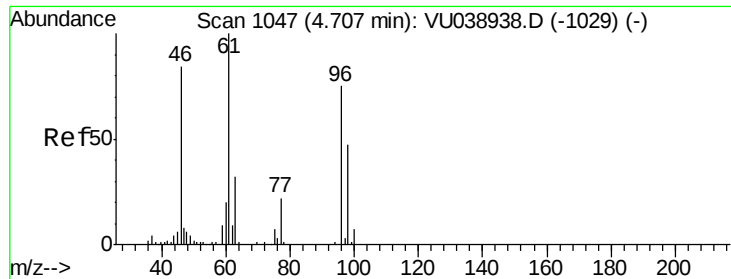
43 100

72 24.4 12.5 37.5



Abundance Ion 43.05 (42.75 to 43.75): VU038942.D (-973) (-)





#22

cis-1,2-Dichloroethene

Concen: 5.195 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. -0.00 min

Lab File: VU038942.D

Acq: 17 Jun 2020 13:42

Instrument :
MSVOA_U
ClientSampled :

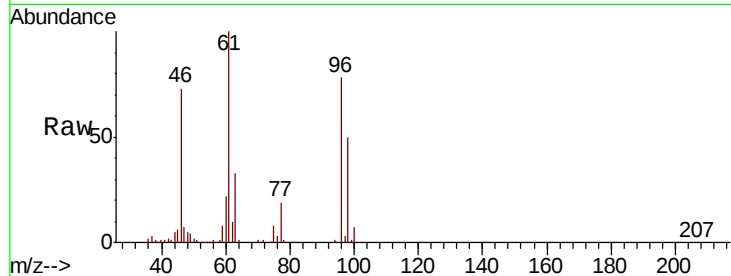
Tot Ion: 96 Resp: 116257

Ion Ratio Lower Upper

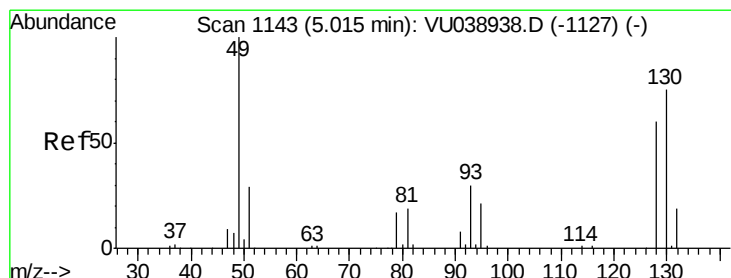
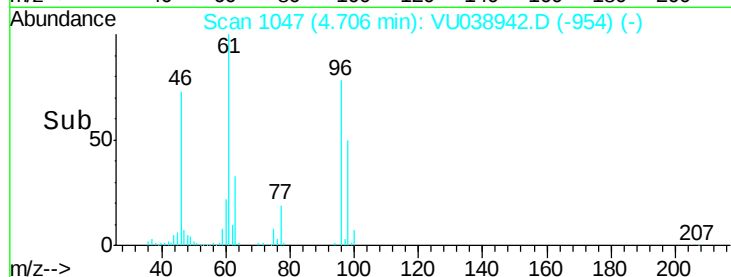
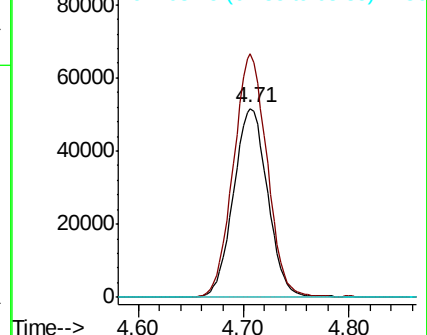
96 100

61 128.7 93.7 173.9

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



#23

Bromochloromethane

Concen: 4.961 ug/L

RT: 5.01 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VU038942.D

Acq: 17 Jun 2020 13:42

Tgt Ion:128 Resp: 52595

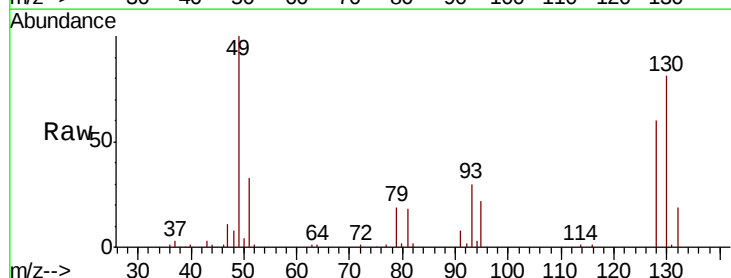
Ion Ratio Lower Upper

128 100

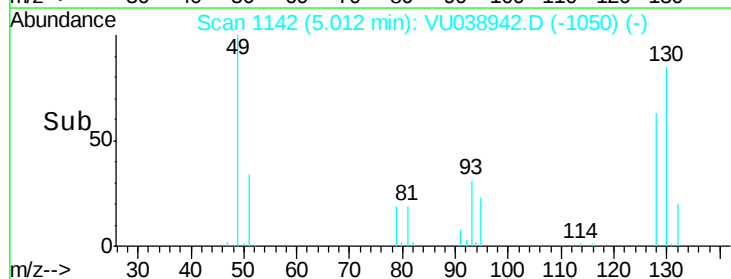
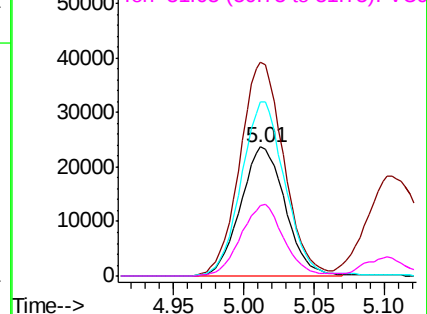
49 165.8 117.4 218.0

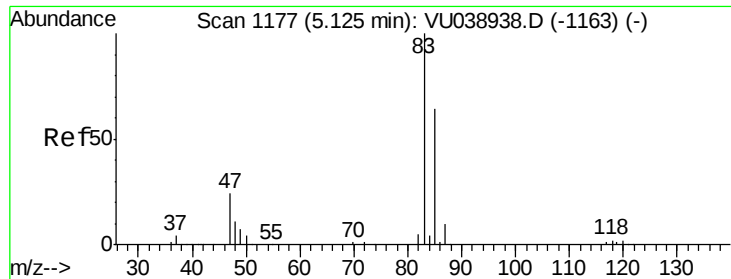
130 134.9 87.8 163.2

51 54.3 39.1 58.7



Abundance Ion 127.90 (127.60 to 128.60): V
Ion 49.10 (48.80 to 49.80): VU0
Ion 129.95 (129.65 to 130.65): V
Ion 51.05 (50.75 to 51.75): VU0

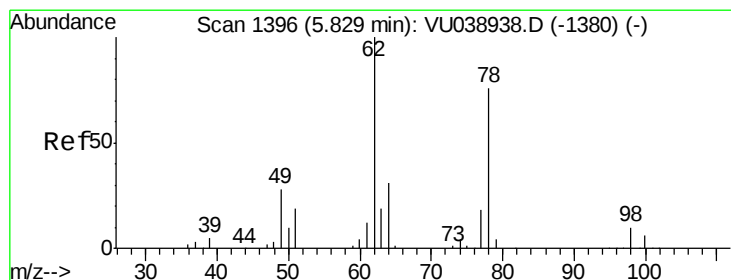
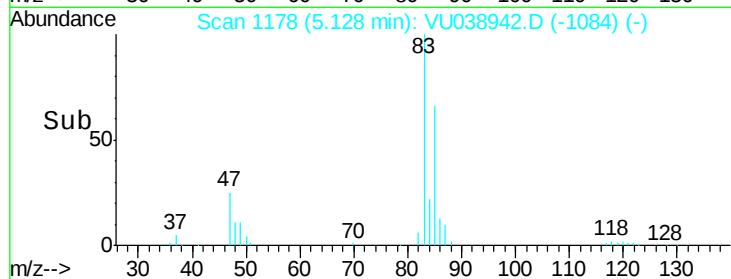
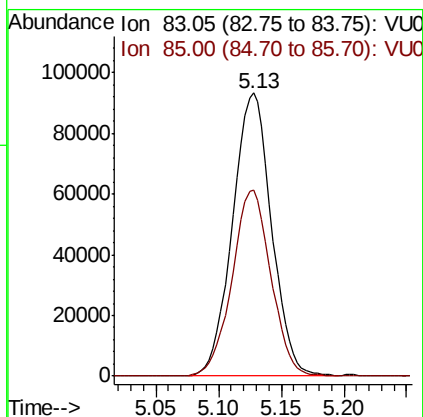
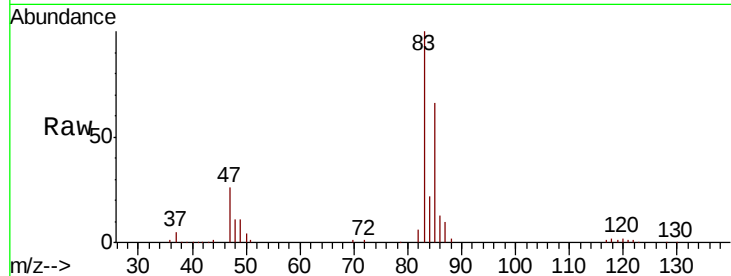




#25
Chloroform
Concen: 5.012 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. 0.00 min
Lab File: VU038942.D
Acq: 17 Jun 2020 13:42

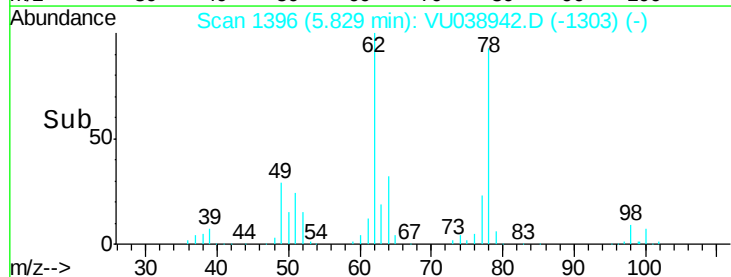
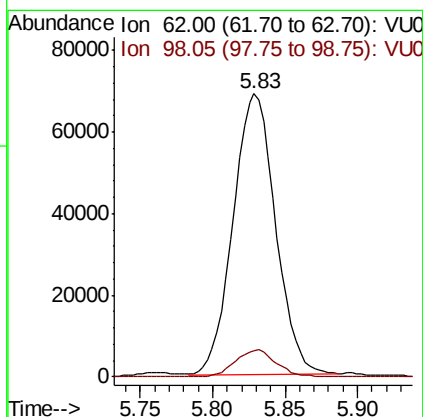
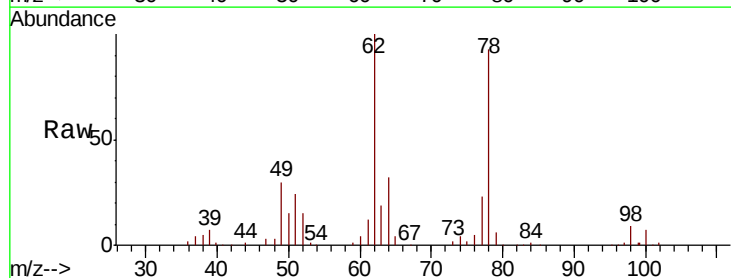
Instrument :
MSVOA_U
ClientSampled :

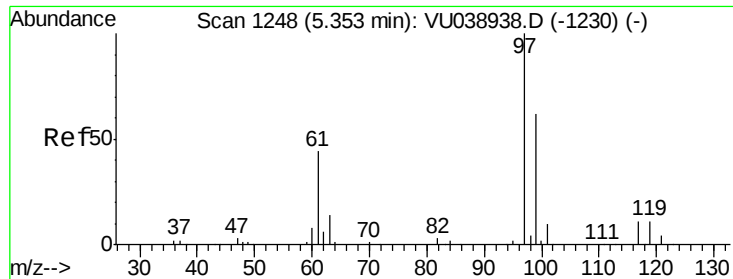
Tot Ion: 83 Resp: 201956
Ion Ratio Lower Upper
83 100
85 65.6 45.5 84.5



#27
1,2-Dichloroethane
Concen: 4.808 ug/L
RT: 5.83 min Scan# 1396
Delta R.T. -0.00 min
Lab File: VU038942.D
Acq: 17 Jun 2020 13:42

Tgt Ion: 62 Resp: 141001
Ion Ratio Lower Upper
62 100
98 9.4 7.6 11.4

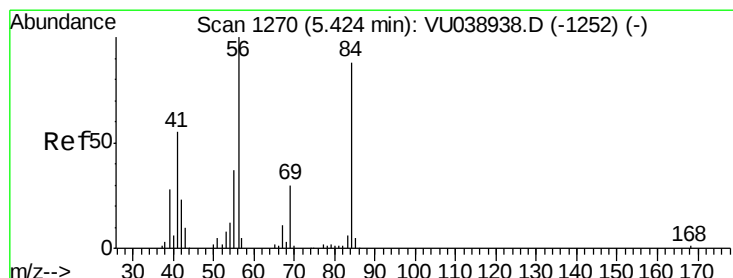
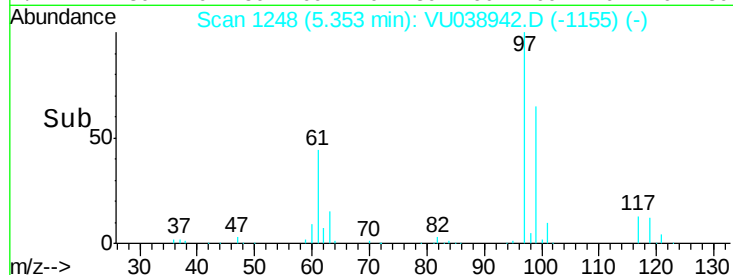
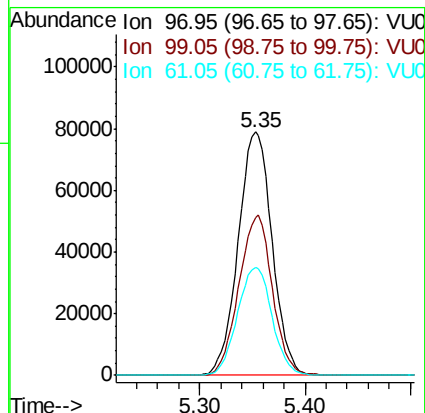
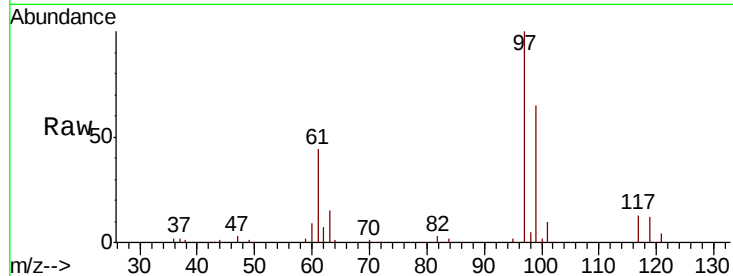




#29
 1,1,1-Trichloroethane
 Concen: 4.951 ug/L
 RT: 5.35 min Scan# 1248
 Delta R.T. -0.00 min
 Lab File: VU038942.D
 Acq: 17 Jun 2020 13:42

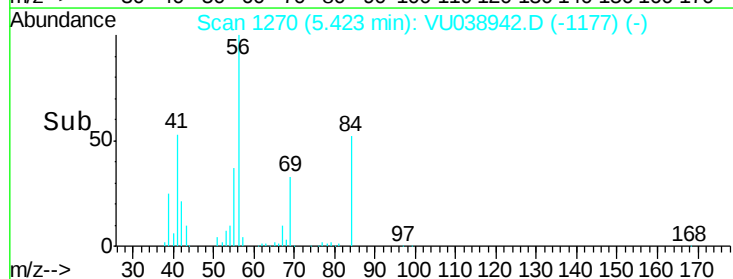
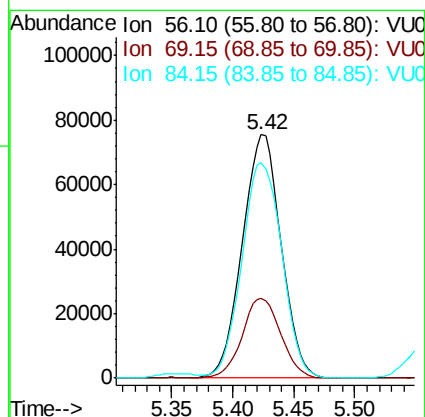
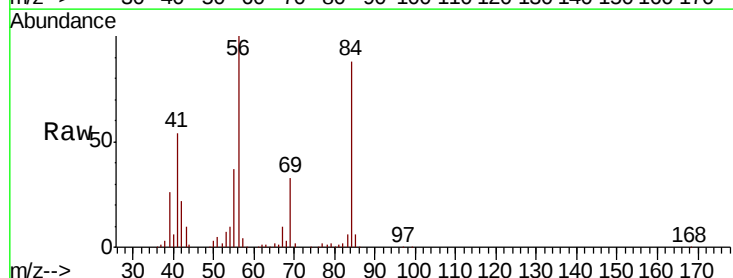
Instrument :
 MSVOA_U
 ClientSampleId :

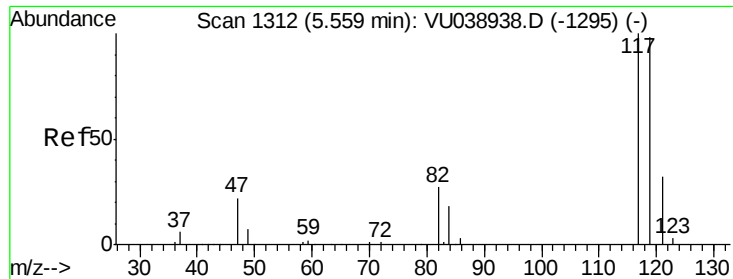
Tot Ion: 97 Resp: 176381
 Ion Ratio Lower Upper
 97 100
 99 65.2 50.8 76.2
 61 45.2 35.6 53.4



#30
 Cyclohexane
 Concen: 4.908 ug/L
 RT: 5.42 min Scan# 1270
 Delta R.T. -0.00 min
 Lab File: VU038942.D
 Acq: 17 Jun 2020 13:42

Tgt Ion: 56 Resp: 165897
 Ion Ratio Lower Upper
 56 100
 69 32.6 25.0 37.4
 84 91.6 72.0 108.0





#31

Carbon tetrachloride

Concen: 4.863 ug/L

RT: 5.56 min Scan# 1312

Delta R.T. -0.00 min

Lab File: VU038942.D

Acq: 17 Jun 2020 13:42

Instrument :

MSVOA_U

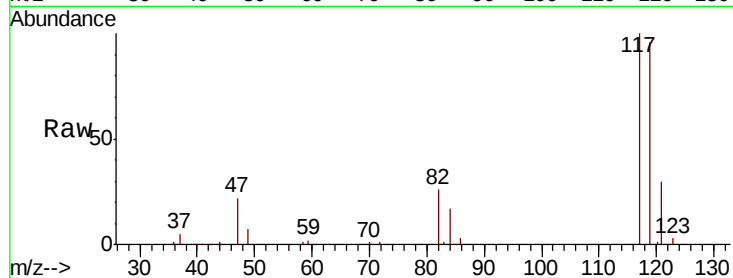
ClientSampleId :

Tot Ion:117 Resp: 152723

Ion Ratio Lower Upper

117 100

119 95.9 77.4 116.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

5.56

80000

60000

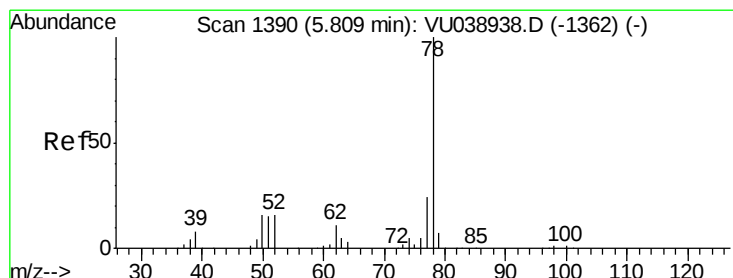
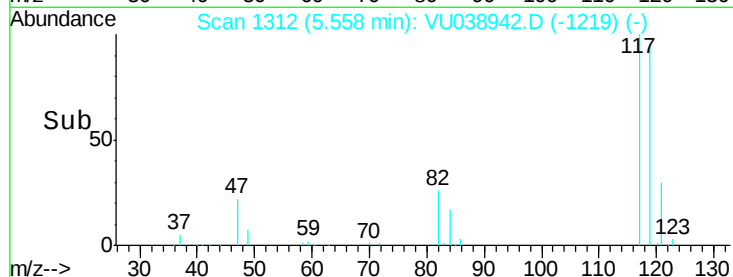
40000

20000

0

Time-->

5.45 5.50 5.55 5.60 5.65



#33

Benzene

Concen: 5.069 ug/L

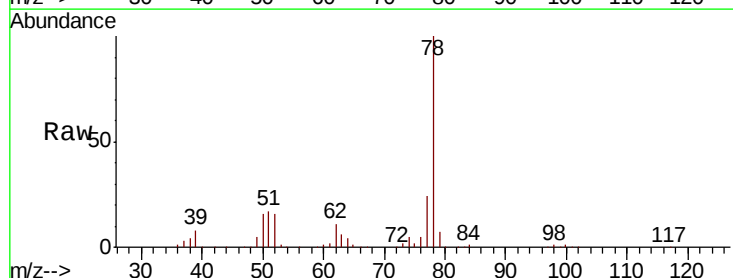
RT: 5.81 min Scan# 1390

Delta R.T. -0.00 min

Lab File: VU038942.D

Acq: 17 Jun 2020 13:42

Tgt Ion: 78 Resp: 434856



Abundance Ion 78.10 (77.80 to 78.80): VU0

250000

200000

150000

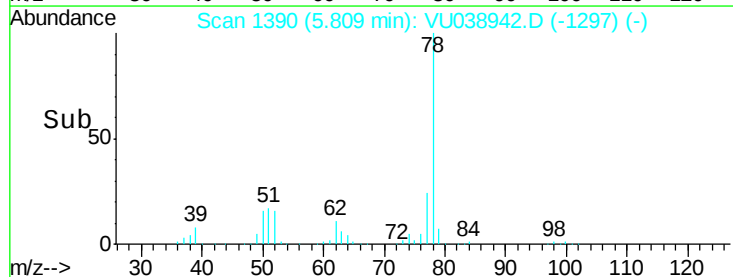
100000

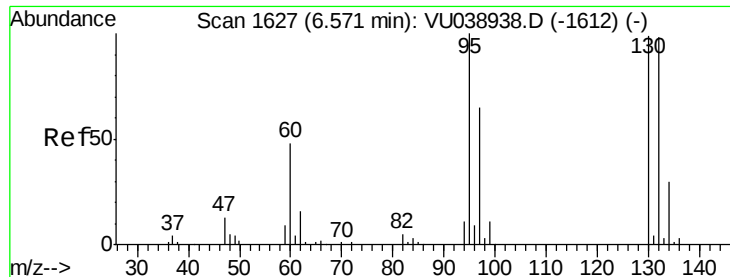
50000

0

Time-->

5.70 5.80 5.90





#34

Trichloroethene

Concen: 5.064 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. -0.00 min

Lab File: VU038942.D

Acq: 17 Jun 2020 13:42

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 110224

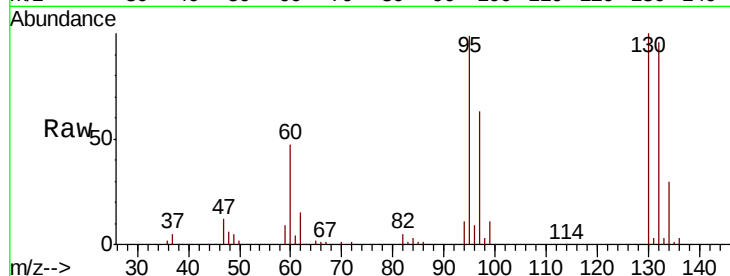
Ion Ratio Lower Upper

95 100

97 63.7 45.4 84.4

132 96.5 68.4 127.0

130 100.9 69.6 129.2

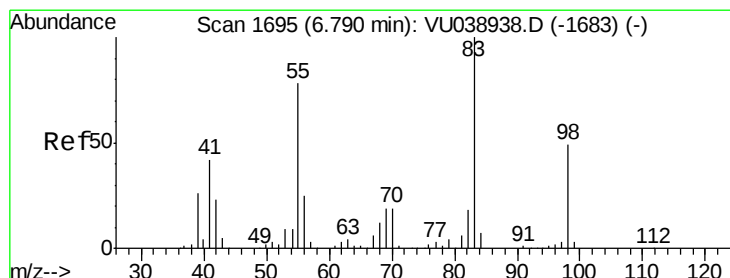
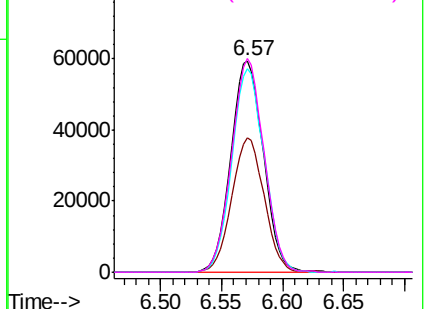
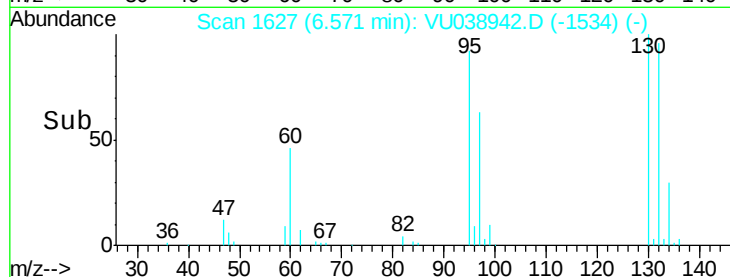


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 4.973 ug/L

RT: 6.79 min Scan# 1695

Delta R.T. -0.00 min

Lab File: VU038942.D

Acq: 17 Jun 2020 13:42

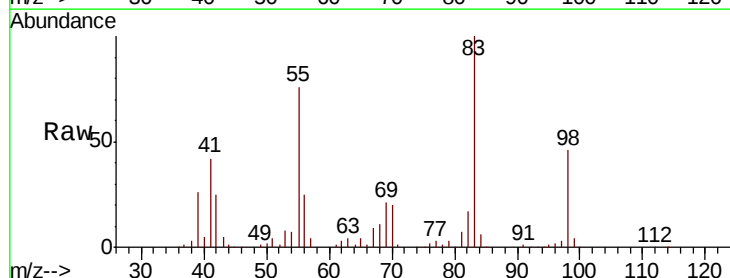
Tgt Ion: 83 Resp: 171610

Ion Ratio Lower Upper

83 100

55 77.6 61.8 92.8

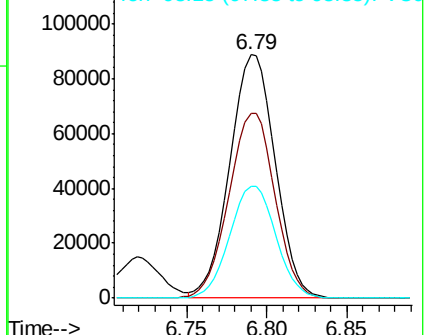
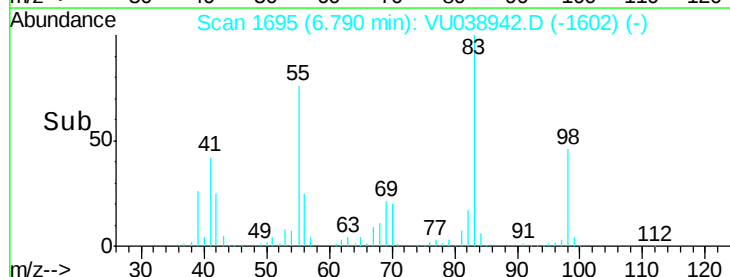
98 47.0 39.3 58.9

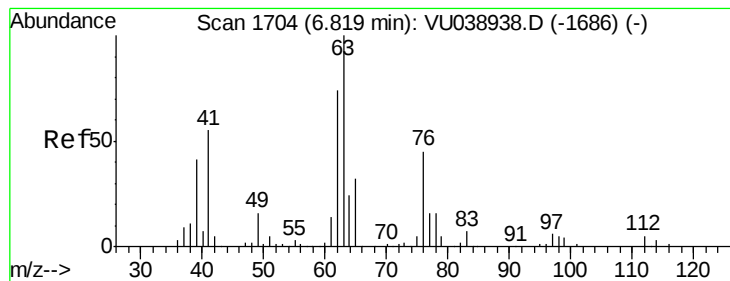


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 5.017 ug/L

RT: 6.82 min Scan# 1704

Delta R.T. -0.00 min

Lab File: VU038942.D

Acq: 17 Jun 2020 13:42

Instrument :

MSVOA_U

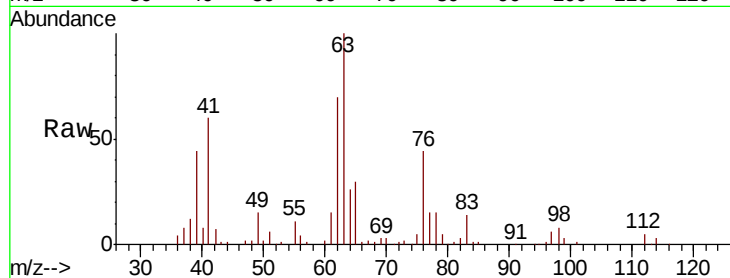
ClientSampled :

Tot Ion: 63 Resp: 112387

Ion Ratio Lower Upper

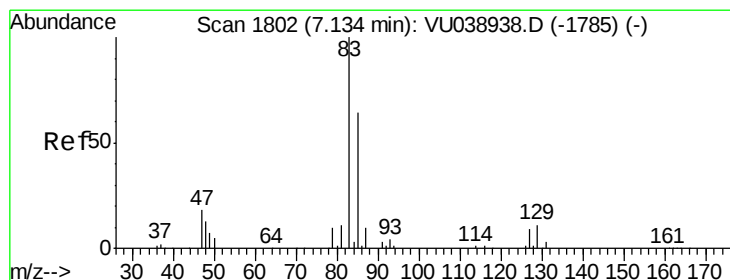
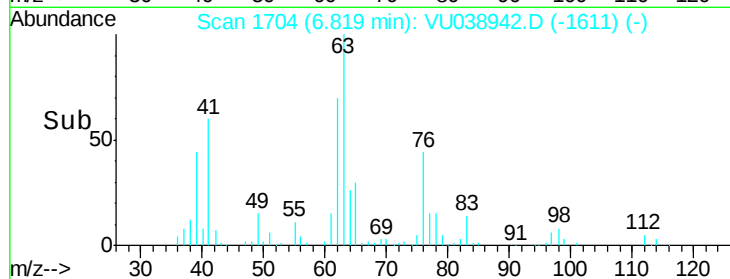
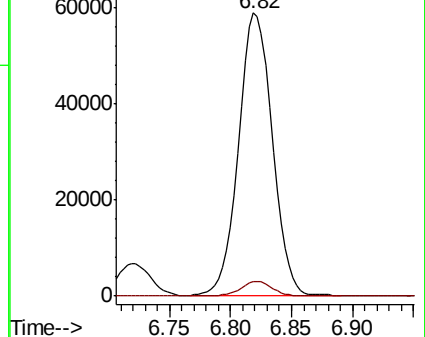
63 100

112 4.9 3.9 5.9



Abundance Ion 63.10 (62.80 to 63.80): VU038942.D (-1611) (-)

Ion 112.10 (111.80 to 112.80): VU038942.D (-1611) (-)



#38

Bromodichloromethane

Concen: 5.051 ug/L

RT: 7.13 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VU038942.D

Acq: 17 Jun 2020 13:42

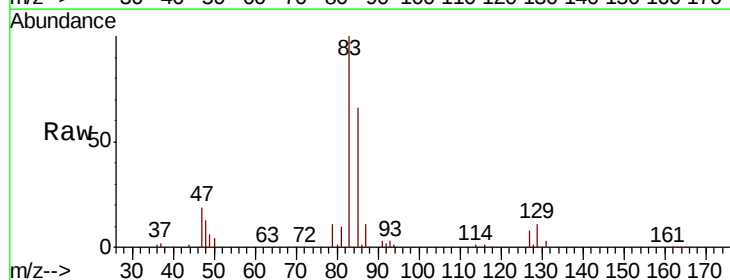
Tgt Ion: 83 Resp: 147160

Ion Ratio Lower Upper

83 100

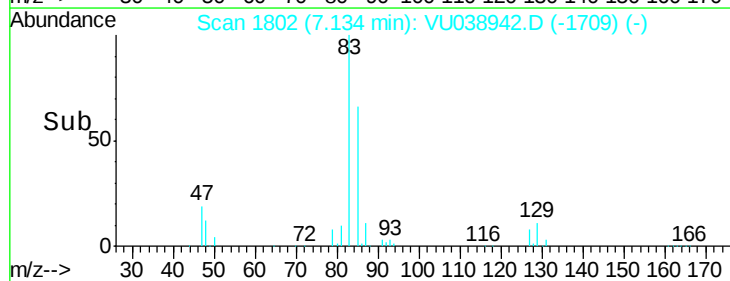
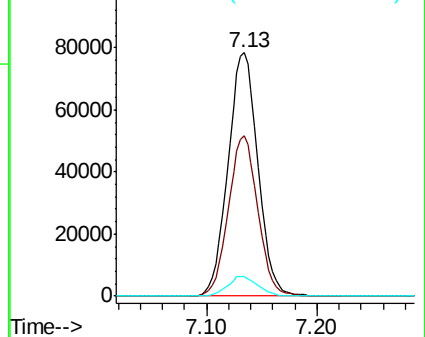
85 65.6 45.0 83.6

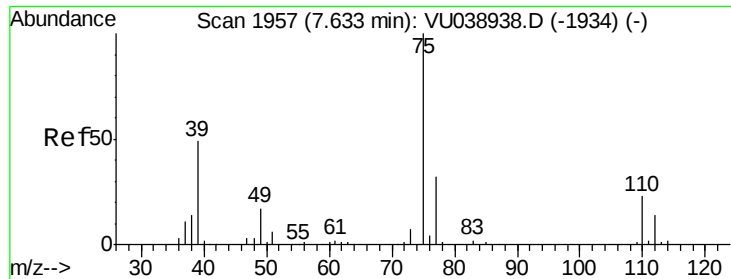
127 7.9 7.0 10.4



Abundance Ion 82.95 (82.65 to 83.65): VU038942.D (-1709) (-)

Ion 85.00 (84.70 to 85.70): VU038942.D (-1709) (-)

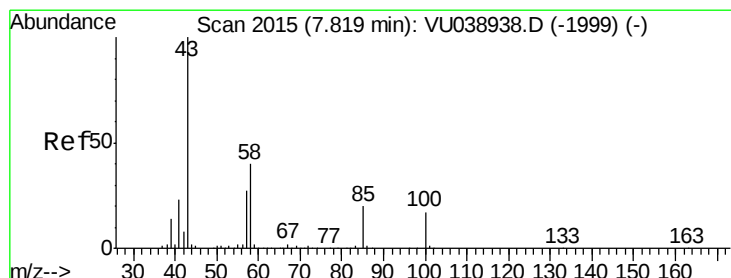
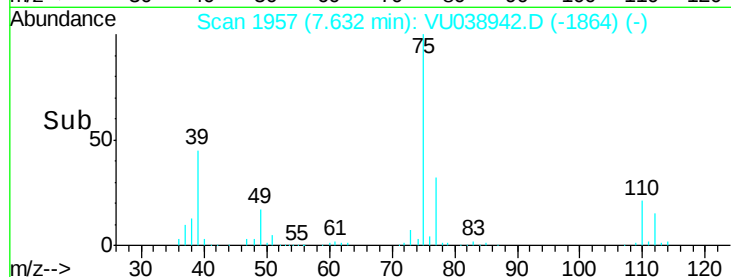
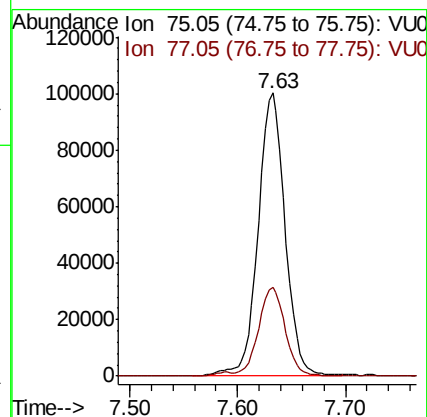
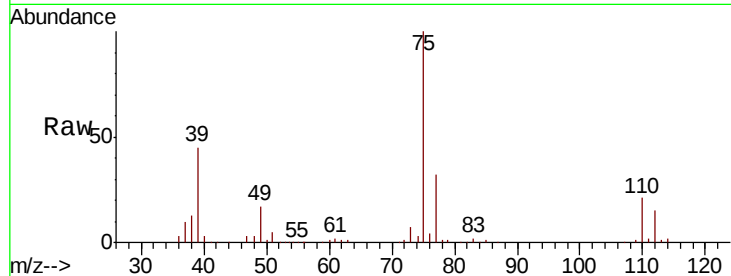




#39
 cis-1,3-Dichloropropene
 Concen: 5.285 ug/L
 RT: 7.63 min Scan# 1957
 Delta R.T. -0.00 min
 Lab File: VU038942.D
 Acq: 17 Jun 2020 13:42

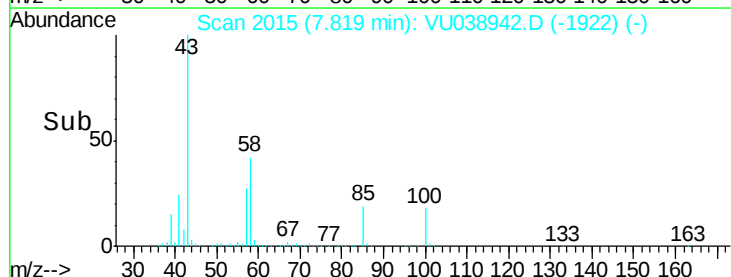
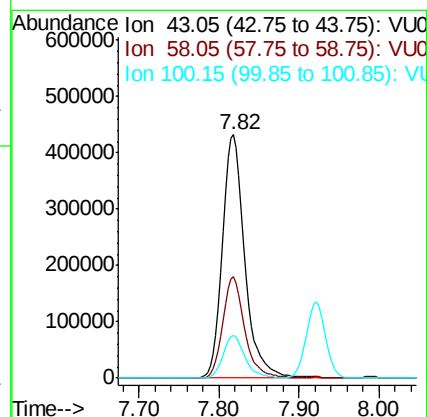
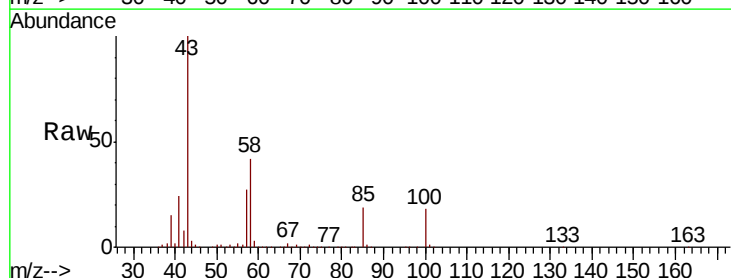
Instrument :
 MSVOA_U
 ClientSampled :

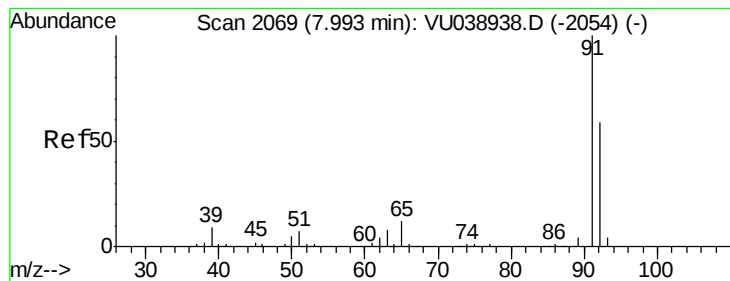
Tot Ion: 75 Resp: 173968
 Ion Ratio Lower Upper
 75 100
 77 31.5 22.4 41.6



#40
 4-Methyl-2-pentanone
 Concen: 54.598 ug/L
 RT: 7.82 min Scan# 2015
 Delta R.T. -0.00 min
 Lab File: VU038942.D
 Acq: 17 Jun 2020 13:42

Tgt Ion: 43 Resp: 842794
 Ion Ratio Lower Upper
 43 100
 58 40.6 32.6 49.0
 100 17.0 13.4 20.2





#42

Toluene

Concen: 5.188 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. -0.00 min

Lab File: VU038942.D

Acq: 17 Jun 2020 13:42

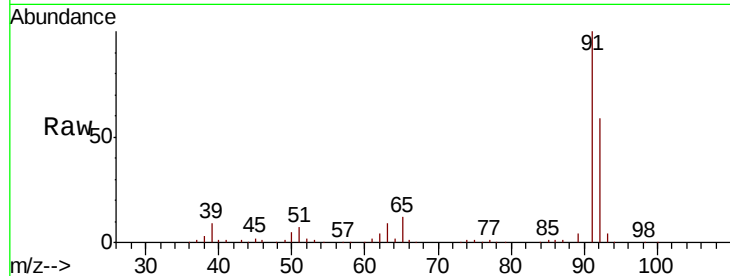
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 91 Resp: 460952

Ion Ratio Lower Upper

91 100

92 59.4 41.6 77.2



Abundance Ion 91.15 (90.85 to 91.85): VU038938.D (-2054) (-)

Ion 92.15 (91.85 to 92.85): VU038938.D (-2054) (-)

7.99

300000

250000

200000

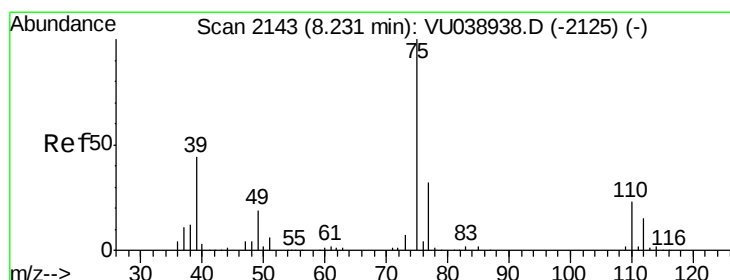
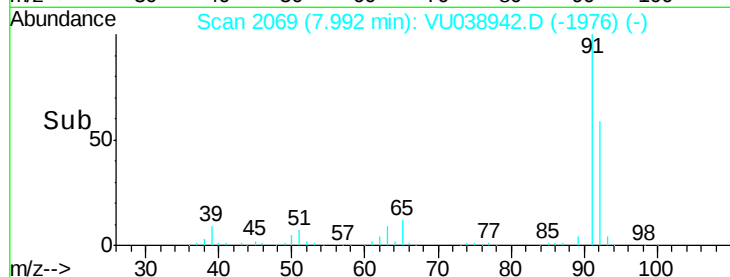
150000

100000

50000

0

Time--> 7.90 7.95 8.00 8.05



#44

trans-1,3-Dichloropropene

Concen: 5.351 ug/L

RT: 8.23 min Scan# 2144

Delta R.T. 0.00 min

Lab File: VU038942.D

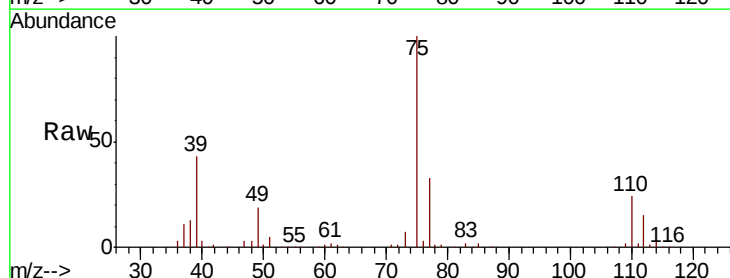
Acq: 17 Jun 2020 13:42

Tgt Ion: 75 Resp: 161934

Ion Ratio Lower Upper

75 100

77 32.5 22.5 41.7



Abundance Ion 75.05 (74.75 to 75.75): VU038938.D (-2125) (-)

Ion 77.05 (76.75 to 77.75): VU038938.D (-2125) (-)

8.23

100000

80000

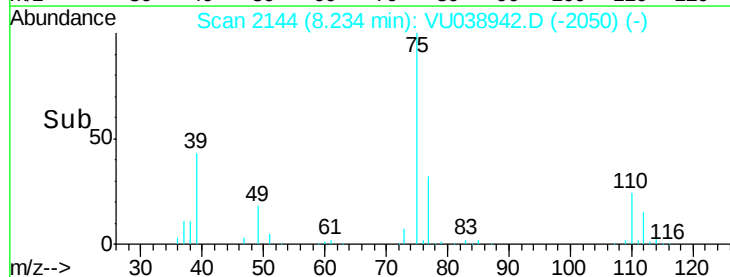
60000

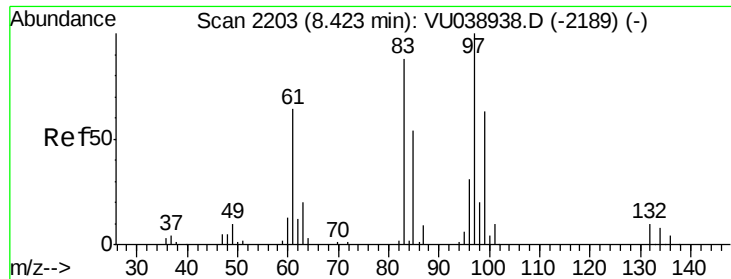
40000

20000

0

Time--> 8.10 8.20 8.30 8.40

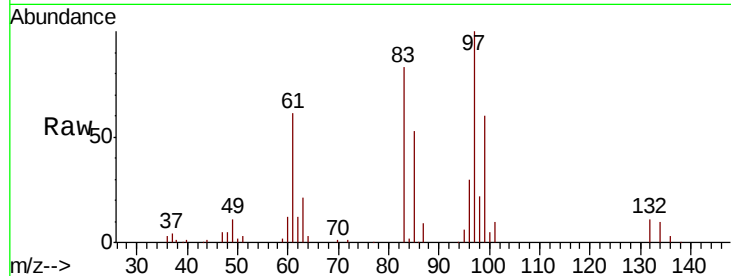




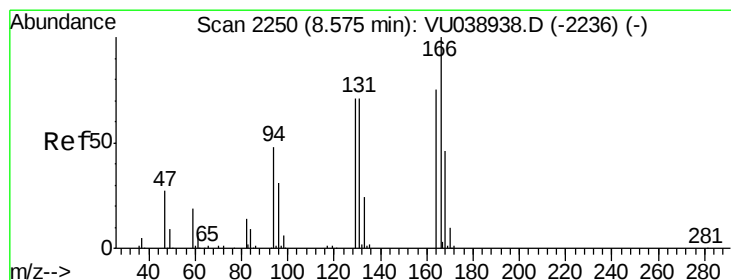
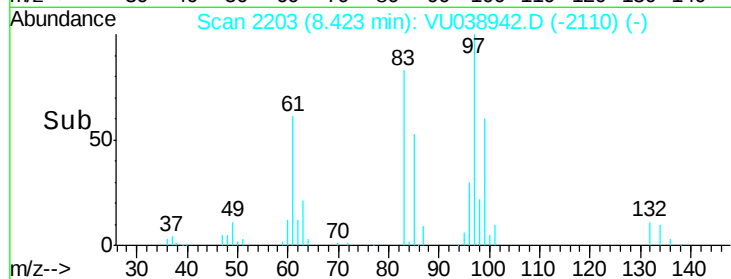
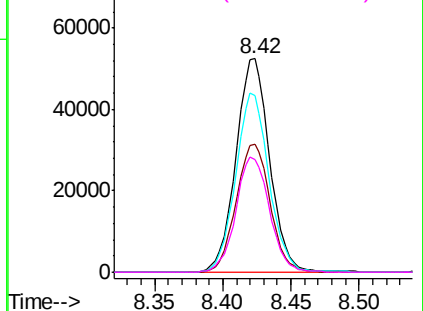
#45
 1,1,2-Trichloroethane
 Concen: 5.409 ug/L
 RT: 8.42 min Scan# 2203
 Delta R.T. -0.00 min
 Lab File: VU038942.D
 Acq: 17 Jun 2020 13:42

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:	97	Resp:	89954
Ion	Ratio	Lower	Upper
97	100		
99	60.2	44.1	81.9
83	82.9	61.2	113.8
85	52.9	37.7	70.1

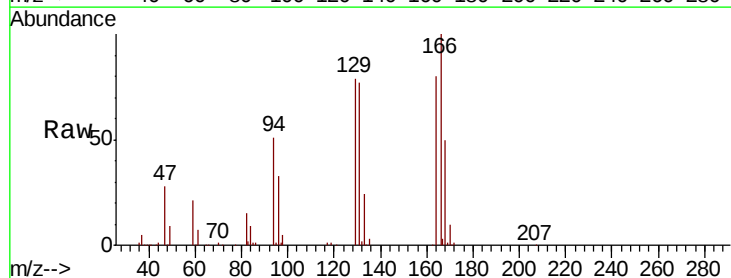


Abundance Ion 96.95 (96.65 to 97.65): VU038942.D (-2110) (-)
 Ion 99.05 (98.75 to 99.75): VU038942.D (-2110) (-)
 Ion 82.95 (82.65 to 83.65): VU038942.D (-2110) (-)
 Ion 85.00 (84.70 to 85.70): VU038942.D (-2110) (-)

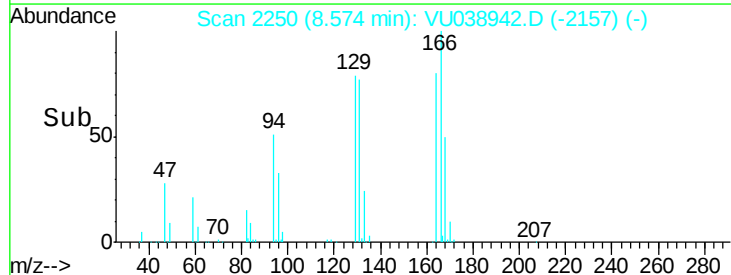
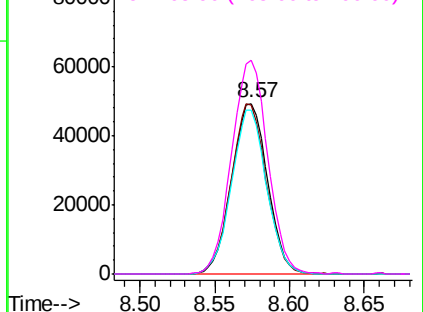


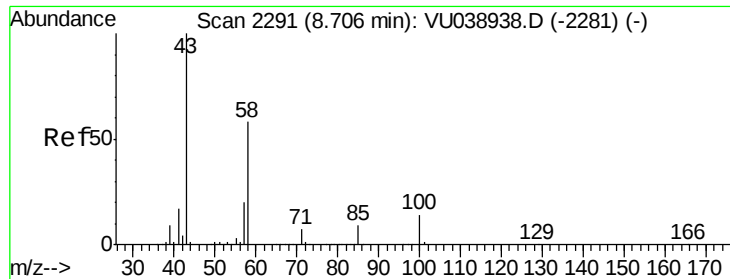
#47
 Tetrachloroethene
 Concen: 4.886 ug/L
 RT: 8.57 min Scan# 2250
 Delta R.T. -0.00 min
 Lab File: VU038942.D
 Acq: 17 Jun 2020 13:42

Tgt Ion:	164	Resp:	82405
Ion	Ratio	Lower	Upper
164	100		
129	98.5	66.1	122.8
131	95.8	65.7	122.1
166	125.0	93.0	172.8



Abundance Ion 163.90 (163.60 to 164.60): VU038942.D (-2157) (-)
 Ion 128.95 (128.65 to 129.65): VU038942.D (-2157) (-)
 Ion 130.95 (130.65 to 131.65): VU038942.D (-2157) (-)
 Ion 165.90 (165.60 to 166.60): VU038942.D (-2157) (-)

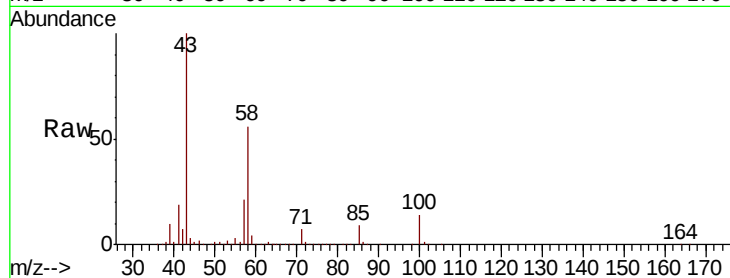




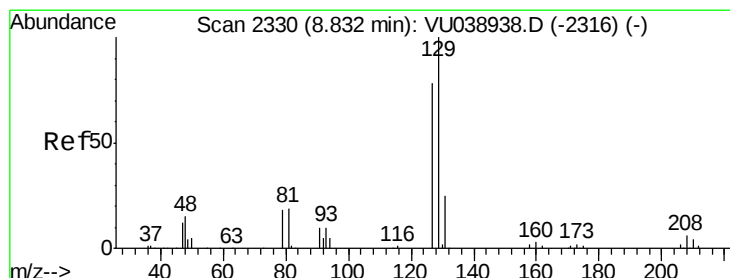
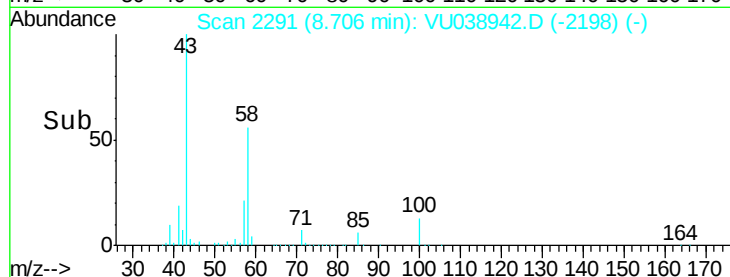
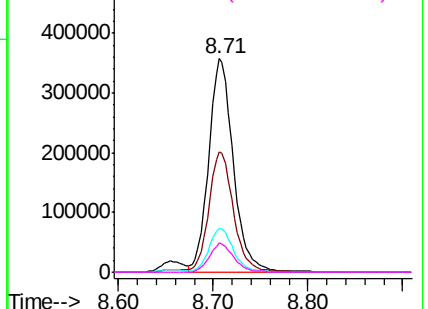
#48
2-Hexanone
Concen: 55.089 ug/L
RT: 8.71 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VU038942.D
Acq: 17 Jun 2020 13:42

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 644218
Ion Ratio Lower Upper
43 100
58 56.4 45.2 67.8
57 20.5 16.1 24.1
100 13.5 10.9 16.3

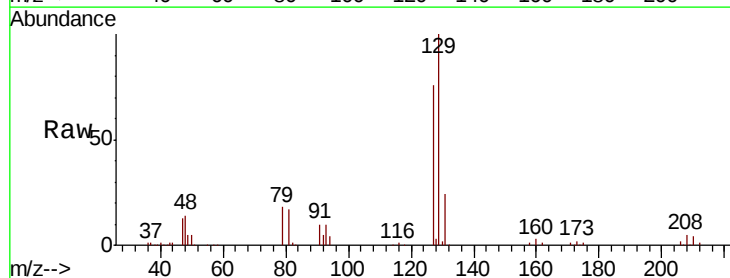


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

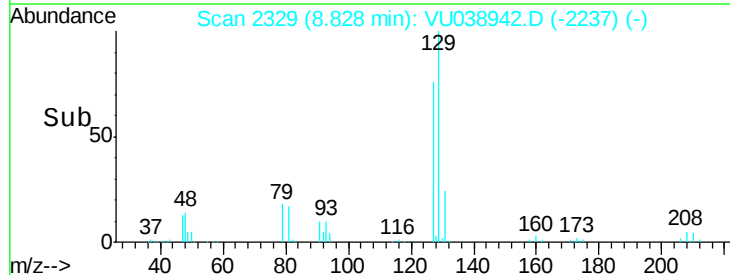
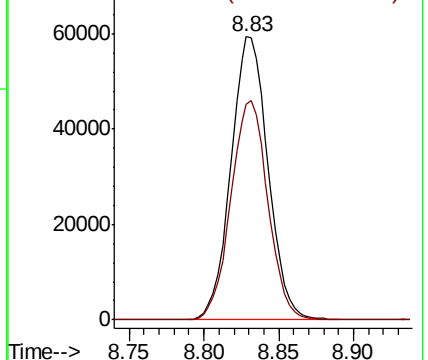


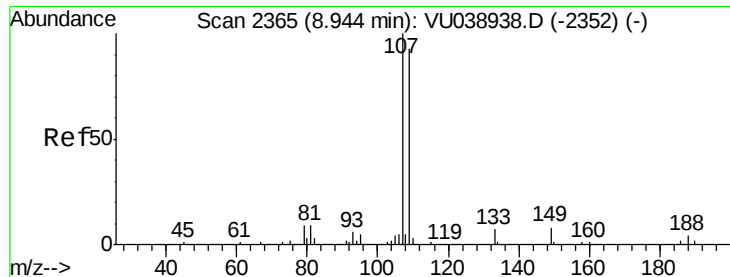
#49
Dibromochloromethane
Concen: 5.145 ug/L
RT: 8.83 min Scan# 2329
Delta R.T. -0.00 min
Lab File: VU038942.D
Acq: 17 Jun 2020 13:42

Tgt Ion: 129 Resp: 102480
Ion Ratio Lower Upper
129 100
127 76.3 54.9 101.9



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

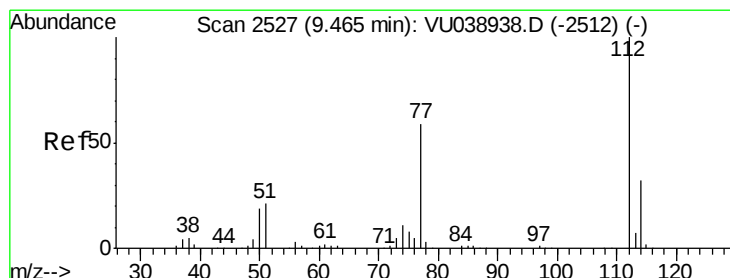
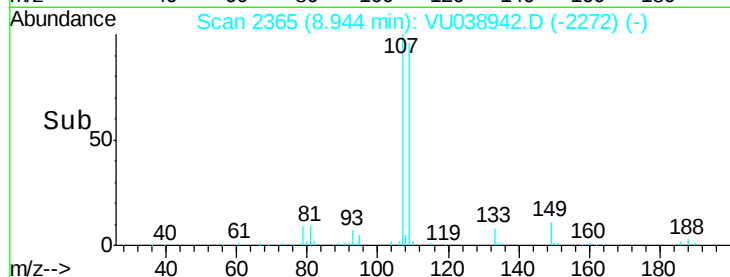
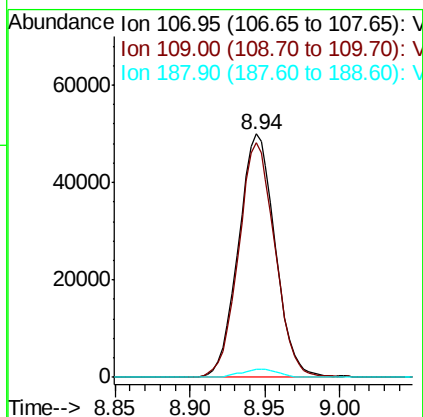
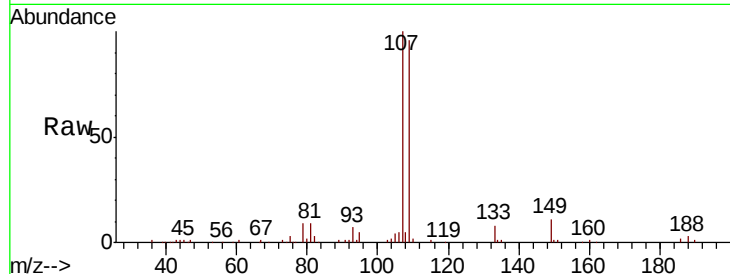




#50
 1,2-Dibromoethane
 Concen: 5.126 ug/L
 RT: 8.94 min Scan# 2365
 Delta R.T. -0.00 min
 Lab File: VU038942.D
 Acq: 17 Jun 2020 13:42

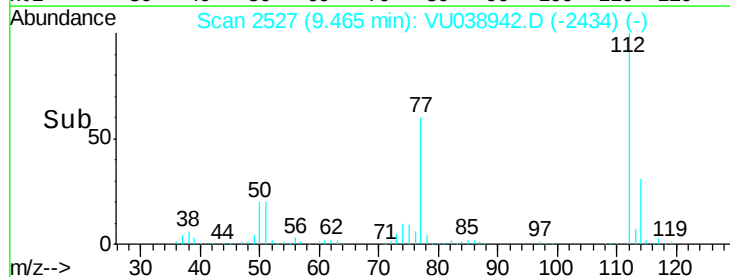
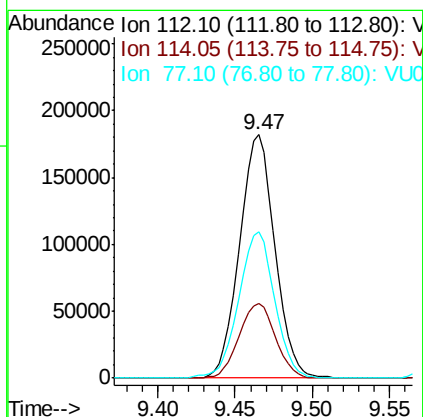
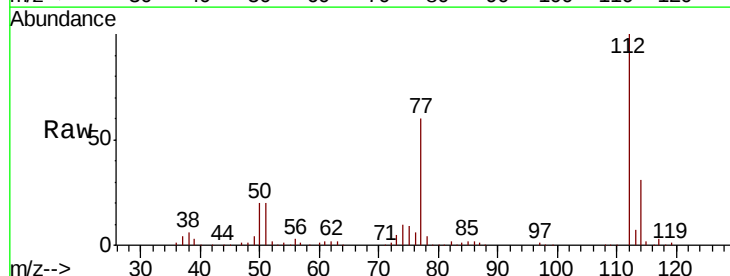
Instrument :
 MSVOA_U
 ClientSampleId :

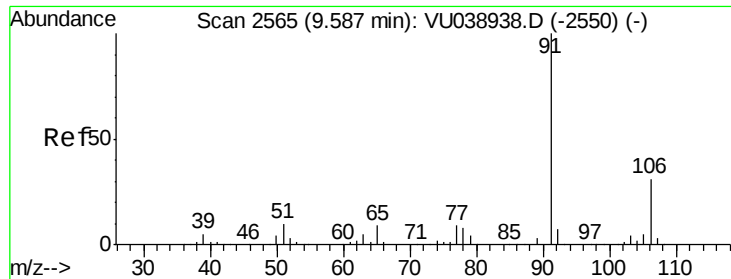
Tot Ion:107 Resp: 85226
 Ion Ratio Lower Upper
 107 100
 109 96.4 64.8 120.4
 188 3.3 3.0 4.6



#51
 Chlorobenzene
 Concen: 5.014 ug/L
 RT: 9.47 min Scan# 2527
 Delta R.T. -0.00 min
 Lab File: VU038942.D
 Acq: 17 Jun 2020 13:42

Tgt Ion:112 Resp: 289567
 Ion Ratio Lower Upper
 112 100
 114 30.9 22.5 41.7
 77 59.9 47.2 70.8





#52

Ethylbenzene

Concen: 5.144 ug/L

RT: 9.59 min Scan# 2565

Delta R.T. -0.00 min

Lab File: VU038942.D

Acq: 17 Jun 2020 13:42

Instrument :

MSVOA_U

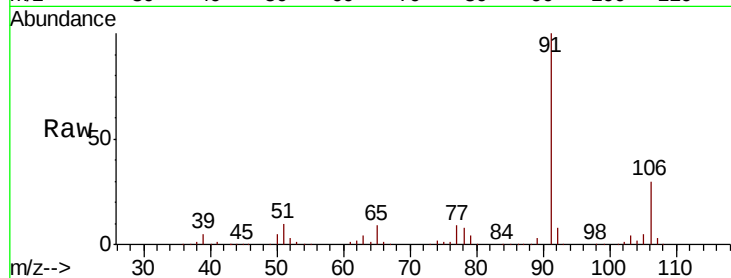
ClientSampleId :

Tot Ion: 91 Resp: 494453

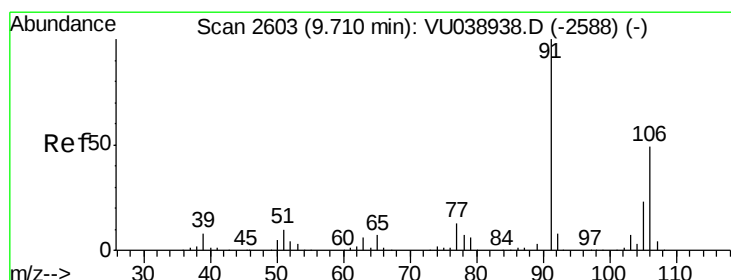
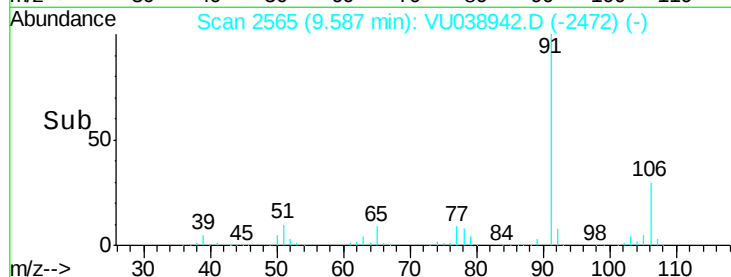
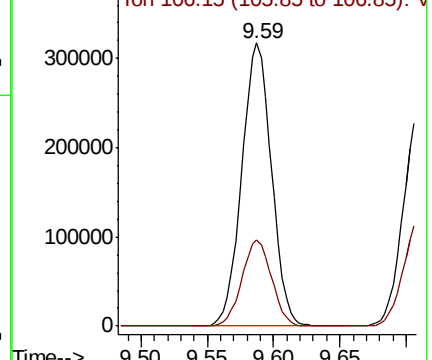
Ion Ratio Lower Upper

91 100

106 30.3 21.5 39.9



Abundance Ion 91.15 (90.85 to 91.85): VU038938.D (-2550) (-)



#53

m,p-Xylene

Concen: 5.117 ug/L

RT: 9.71 min Scan# 2603

Delta R.T. -0.00 min

Lab File: VU038942.D

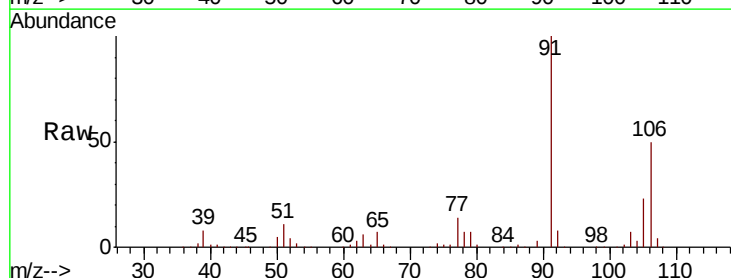
Acq: 17 Jun 2020 13:42

Tgt Ion: 106 Resp: 189767

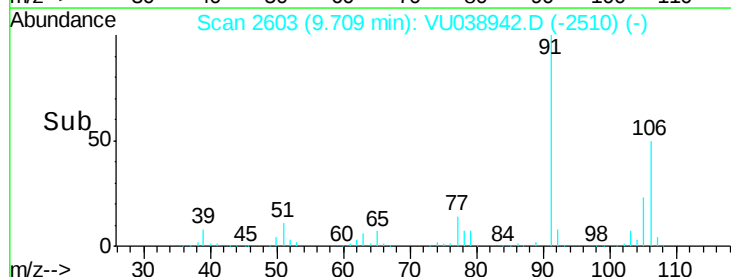
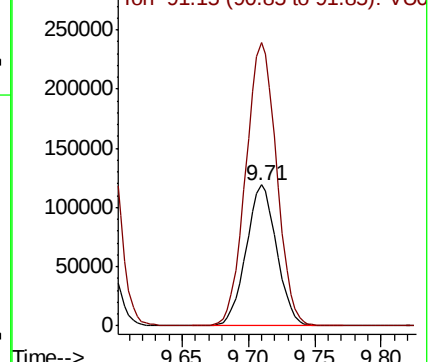
Ion Ratio Lower Upper

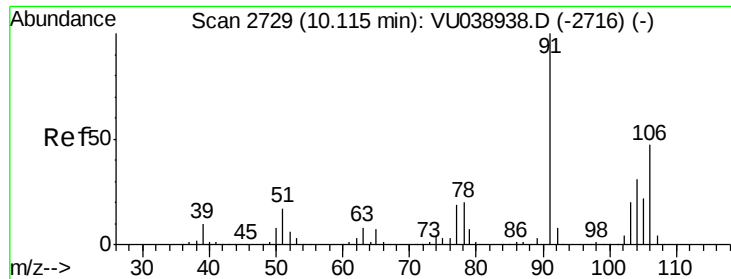
106 100

91 201.0 143.0 265.6



Abundance Ion 106.15 (105.85 to 106.85): VU038938.D (-2588) (-)

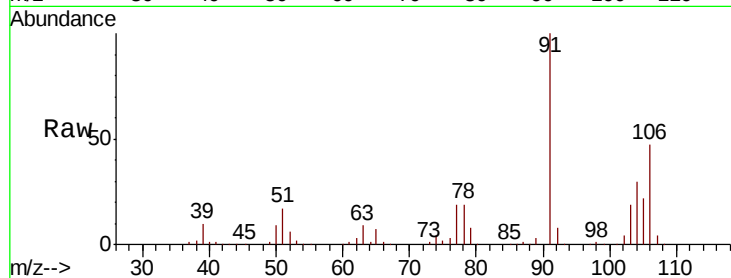




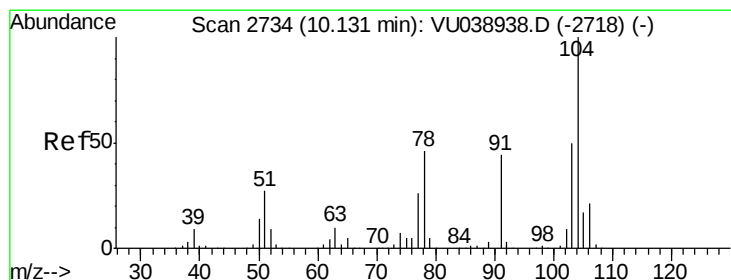
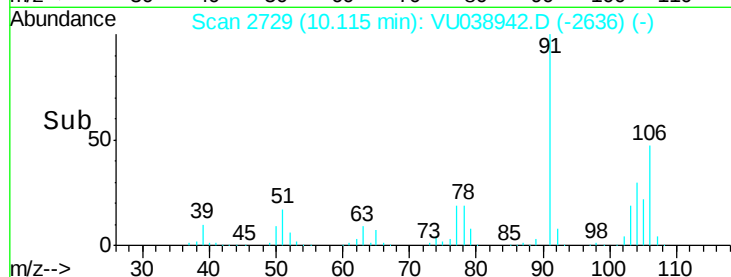
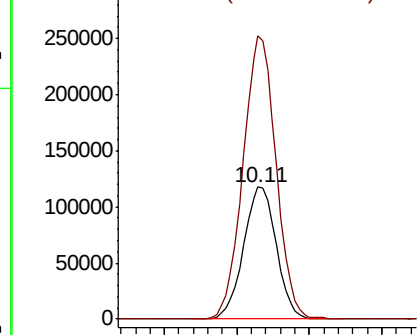
#54
o-Xylene
Concen: 5.211 ug/L
RT: 10.11 min Scan# 2729
Delta R.T. -0.00 min
Lab File: VU038942.D
Acq: 17 Jun 2020 13:42

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 185138
Ion Ratio Lower Upper
106 100
91 214.6 148.4 275.6

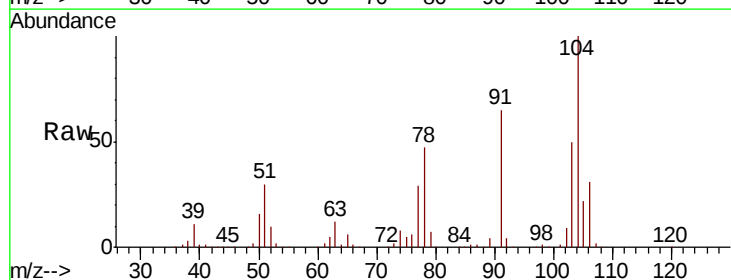


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

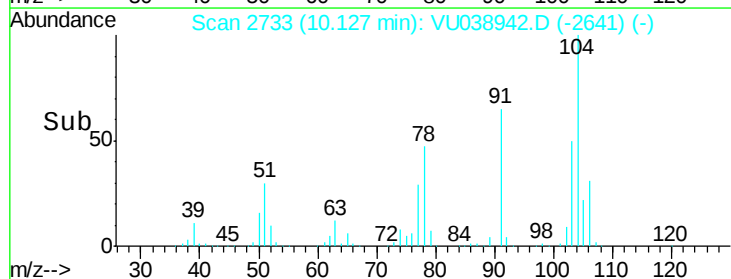
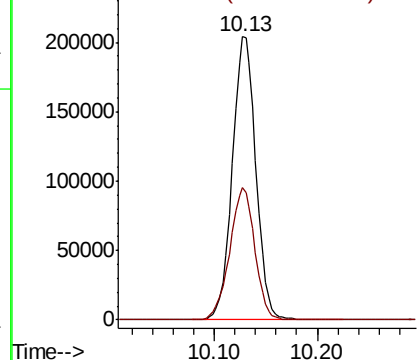


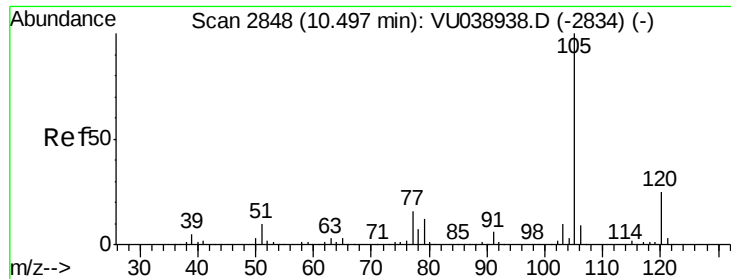
#55
Styrene
Concen: 5.307 ug/L
RT: 10.13 min Scan# 2733
Delta R.T. -0.00 min
Lab File: VU038942.D
Acq: 17 Jun 2020 13:42

Tgt Ion:104 Resp: 324953
Ion Ratio Lower Upper
104 100
78 46.6 32.0 59.4



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





#56

Isopropylbenzene

Concen: 5.073 ug/L

RT: 10.50 min Scan# 2848

Delta R.T. -0.00 min

Lab File: VU038942.D

Acq: 17 Jun 2020 13:42

Instrument :

MSVOA_U

ClientSampleId :

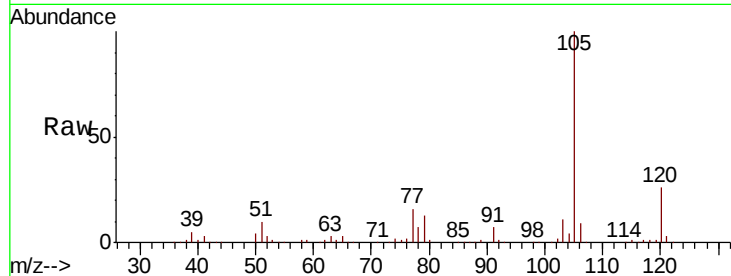
Tot Ion:105 Resp: 479718

Ion Ratio Lower Upper

105 100

120 25.8 20.4 30.6

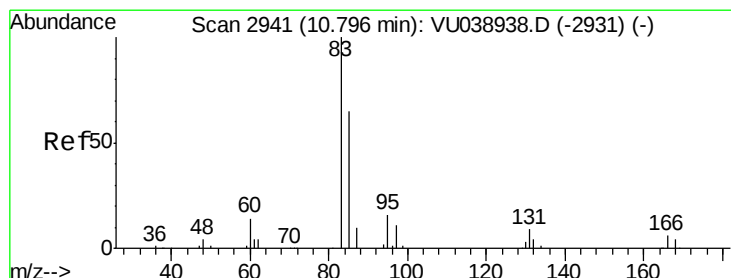
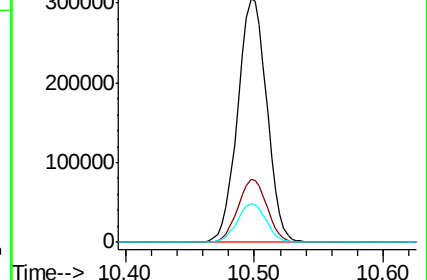
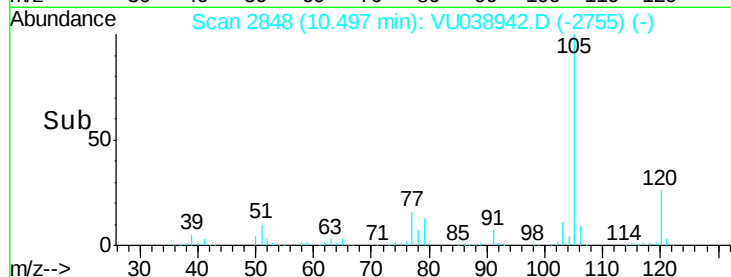
77 15.8 13.0 19.6



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): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.991 ug/L

RT: 10.80 min Scan# 2941

Delta R.T. -0.00 min

Lab File: VU038942.D

Acq: 17 Jun 2020 13:42

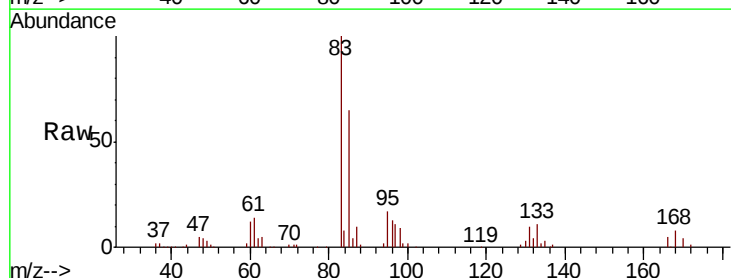
Tgt Ion: 83 Resp: 114571

Ion Ratio Lower Upper

83 100

85 64.5 45.4 84.4

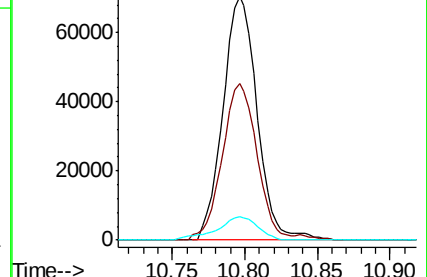
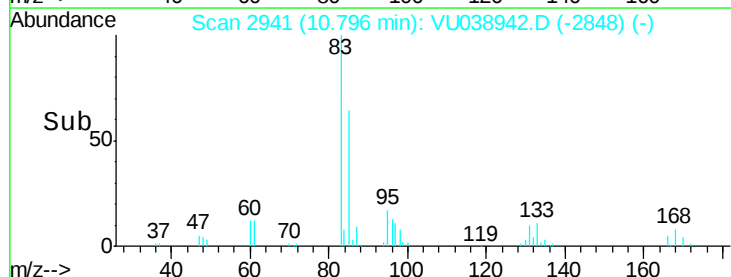
131 9.7 8.2 12.4

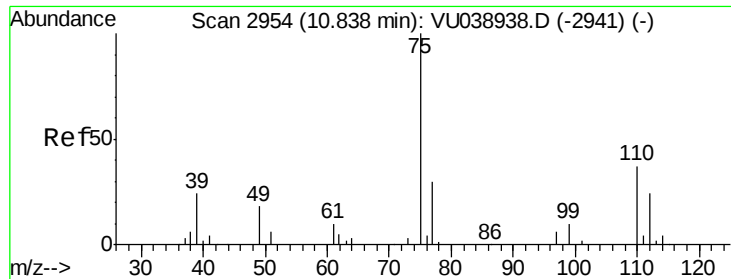


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

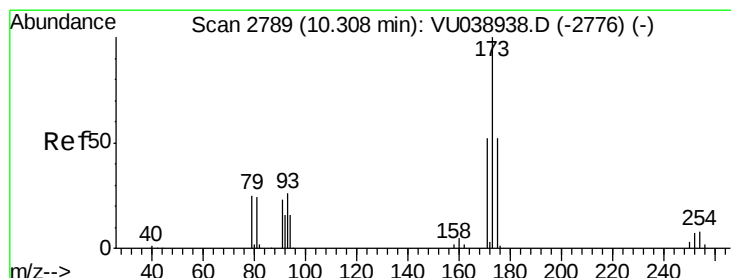
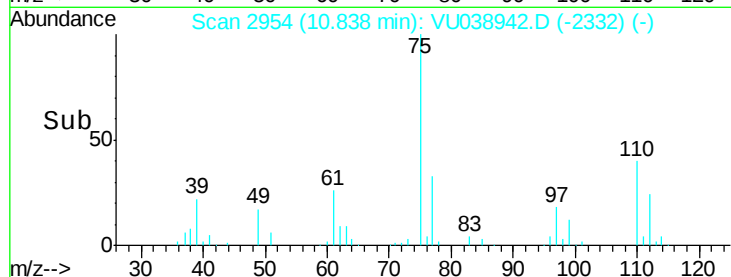
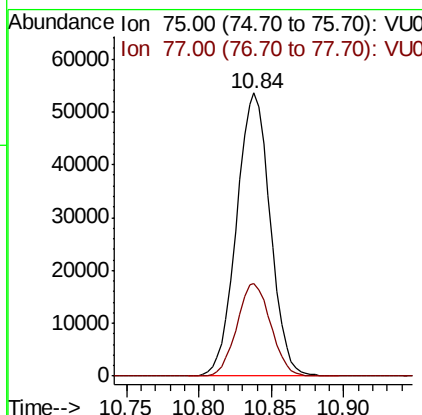
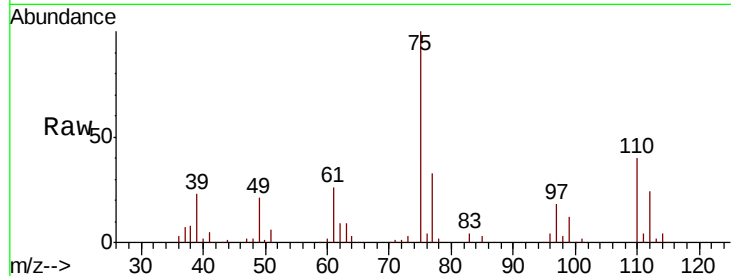




#59
 1,2,3-Trichloropropane
 Concen: 5.003 ug/L
 RT: 10.84 min Scan# 2954
 Delta R.T. -0.00 min
 Lab File: VU038942.D
 Acq: 17 Jun 2020 13:42

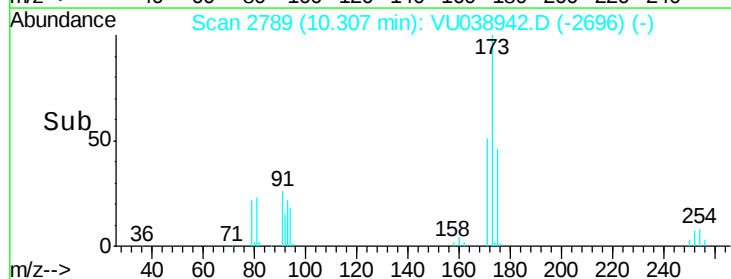
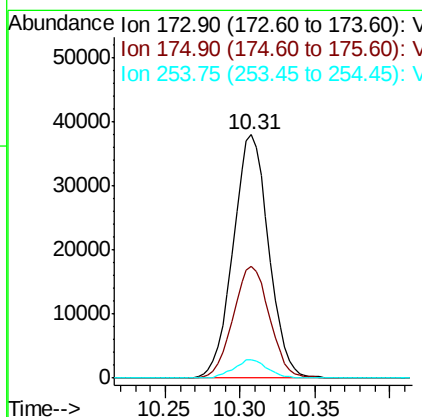
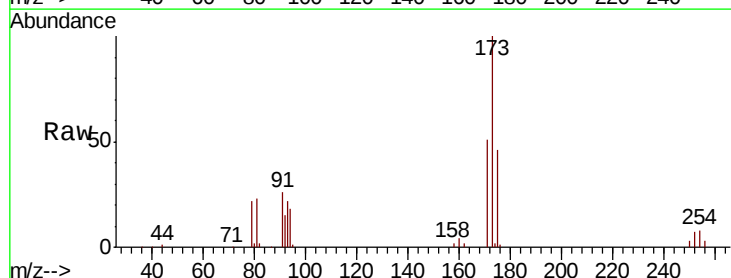
Instrument :
 MSVOA_U
 ClientSampleId :

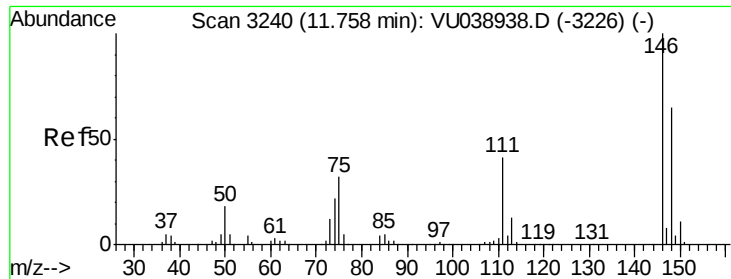
Tot Ion: 75 Resp: 86431
 Ion Ratio Lower Upper
 75 100
 77 33.0 25.4 38.0



#61
 Bromoform
 Concen: 5.080 ug/L
 RT: 10.31 min Scan# 2789
 Delta R.T. -0.00 min
 Lab File: VU038942.D
 Acq: 17 Jun 2020 13:42

Tgt Ion: 173 Resp: 62776
 Ion Ratio Lower Upper
 173 100
 175 46.9 39.2 58.8
 254 7.1 6.1 9.1





#62

1,3-Dichlorobenzene

Concen: 5.033 ug/L

RT: 11.76 min Scan# 3240

Delta R.T. -0.00 min

Lab File: VU038942.D

Acq: 17 Jun 2020 13:42

Instrument :

MSVOA_U

ClientSampleId :

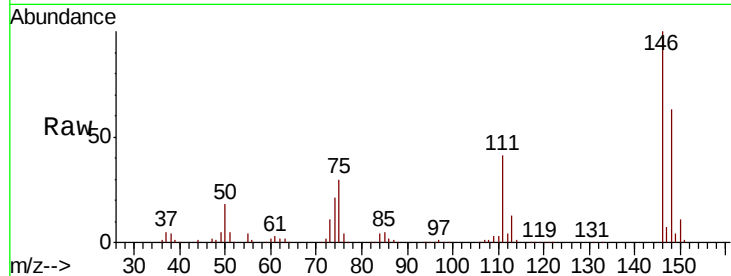
Tot Ion:146 Resp: 238968

Ion Ratio Lower Upper

146 100

111 40.7 29.0 53.8

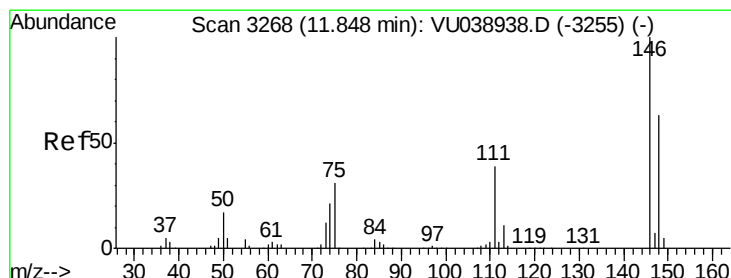
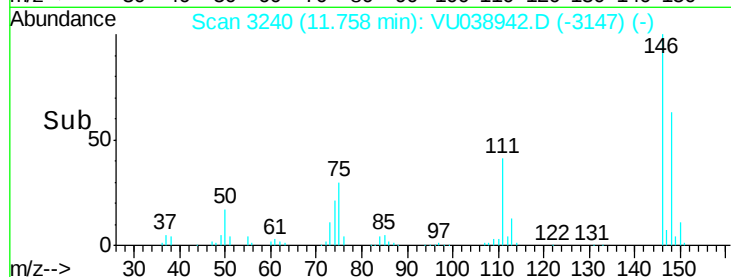
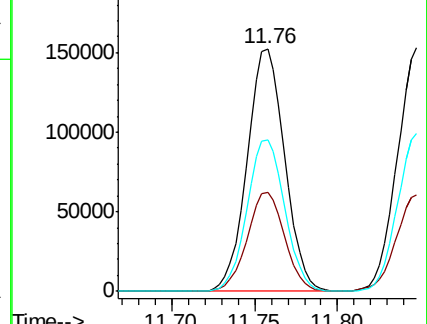
148 62.6 45.1 83.9



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



#63

1,4-Dichlorobenzene

Concen: 4.925 ug/L

RT: 11.85 min Scan# 3268

Delta R.T. -0.00 min

Lab File: VU038942.D

Acq: 17 Jun 2020 13:42

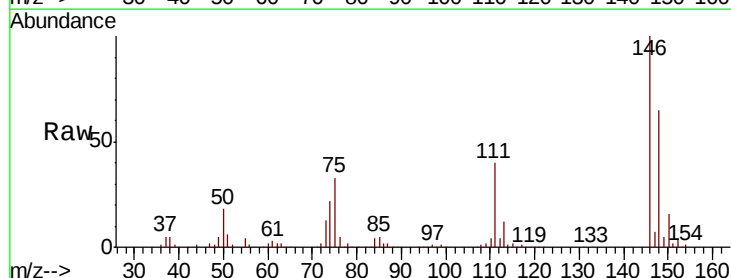
Tgt Ion:146 Resp: 240669

Ion Ratio Lower Upper

146 100

111 39.9 27.2 50.6

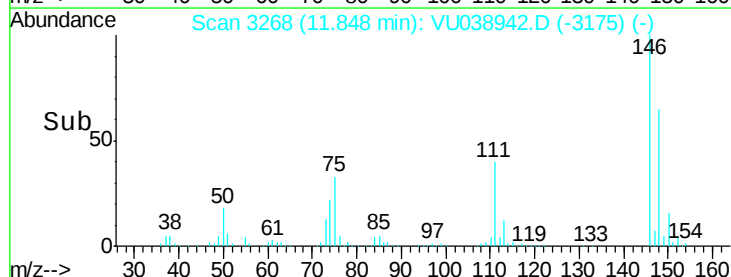
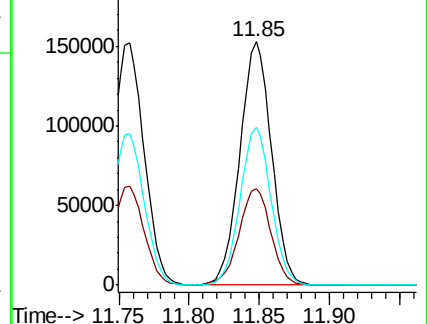
148 64.7 44.0 81.6

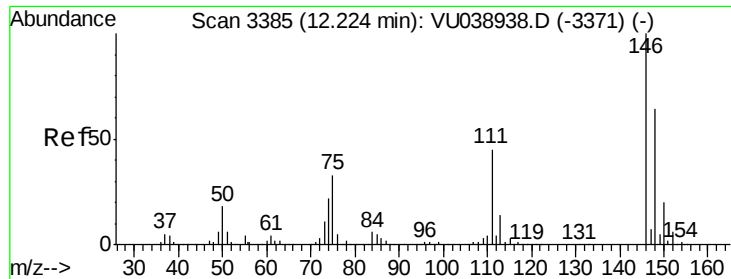


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 4.922 ug/L

RT: 12.22 min Scan# 3385

Delta R.T. -0.00 min

Lab File: VU038942.D

Acq: 17 Jun 2020 13:42

Instrument :

MSVOA_U

ClientSampleId :

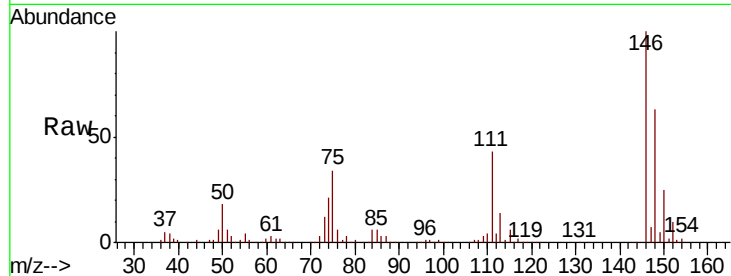
Tot Ion:146 Resp: 230687

Ion Ratio Lower Upper

146 100

111 43.0 35.7 53.5

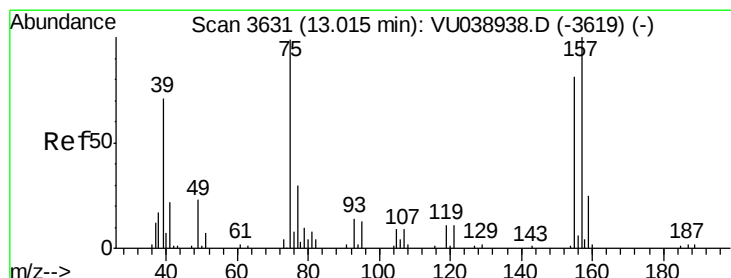
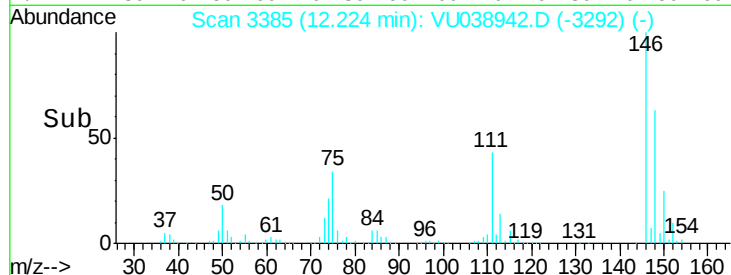
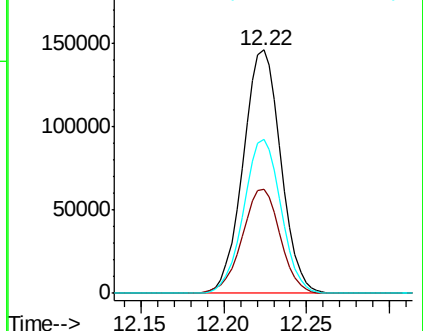
148 63.3 51.6 77.4



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



#66

1,2-Dibromo-3-chloropropane

Concen: 4.606 ug/L

RT: 13.01 min Scan# 3631

Delta R.T. -0.00 min

Lab File: VU038942.D

Acq: 17 Jun 2020 13:42

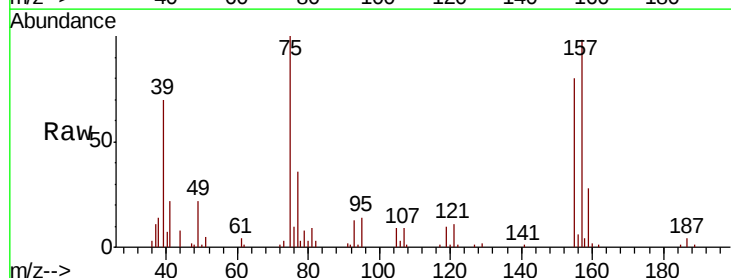
Tgt Ion: 75 Resp: 21765

Ion Ratio Lower Upper

75 100

155 79.7 65.4 98.2

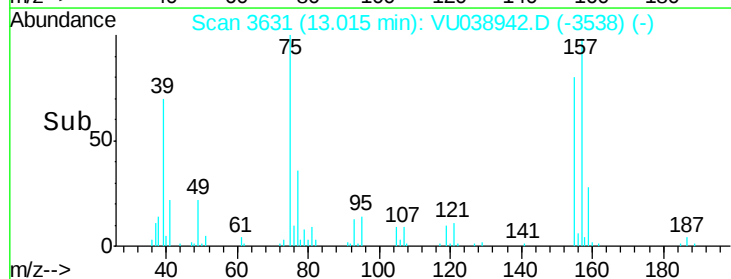
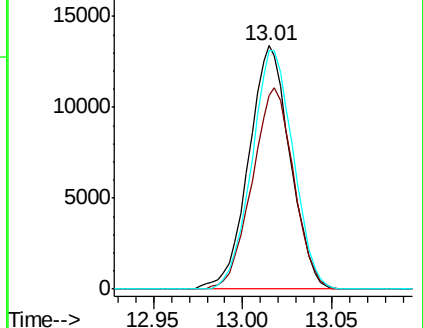
157 97.8 80.6 120.8

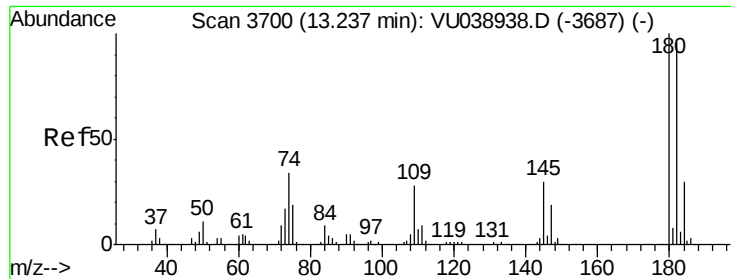


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

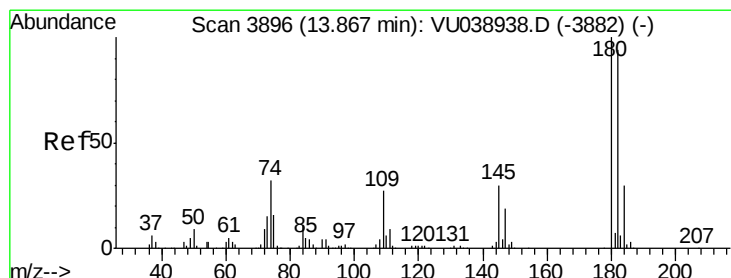
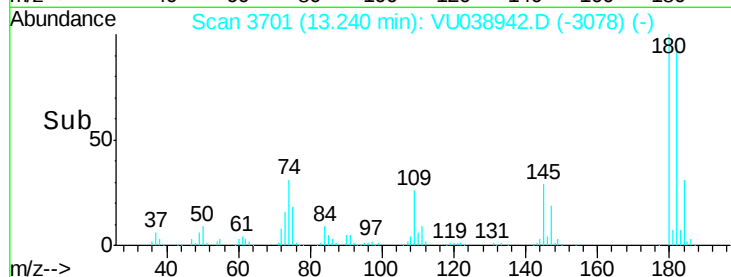
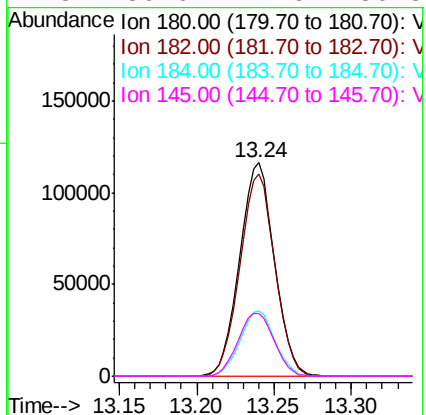
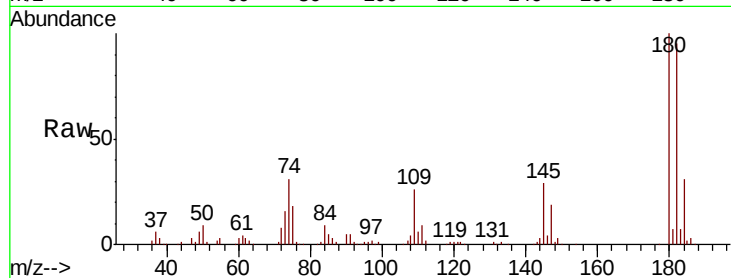




#67
 1,3,5-Trichlorobenzene
 Concen: 4.696 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. 0.00 min
 Lab File: VU038942.D
 Acq: 17 Jun 2020 13:42

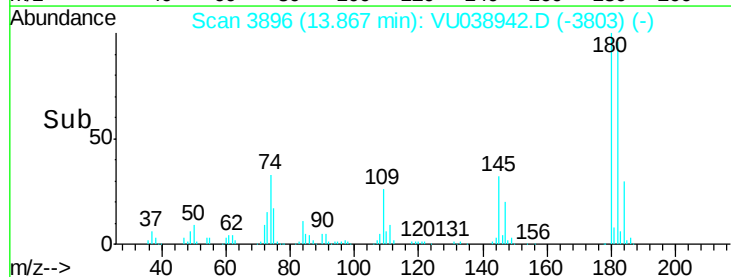
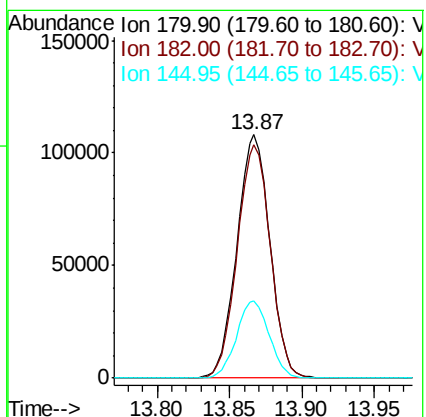
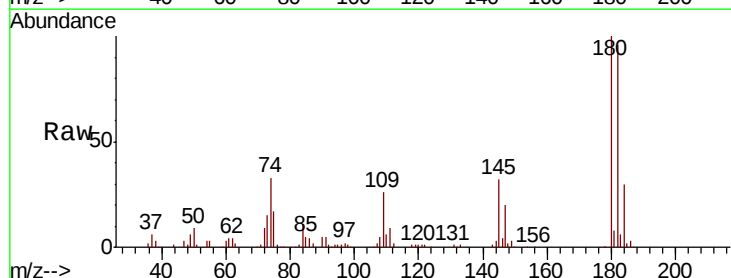
Instrument :
 MSVOA_U
 ClientSampleId :

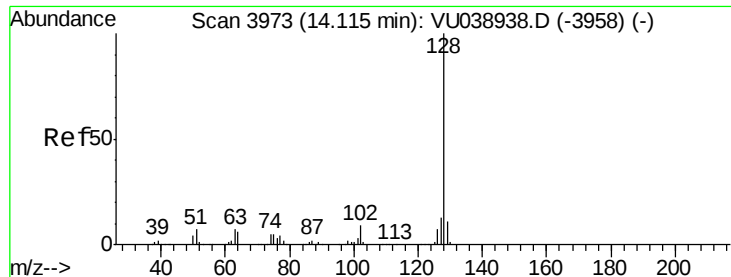
Tot Ion:180 Resp: 181589
 Ion Ratio Lower Upper
 180 100
 182 95.0 76.3 114.5
 184 30.8 24.0 36.0
 145 30.6 24.6 36.8



#68
 1,2,4-trichlorobenzene
 Concen: 4.884 ug/L
 RT: 13.87 min Scan# 3896
 Delta R.T. -0.00 min
 Lab File: VU038942.D
 Acq: 17 Jun 2020 13:42

Tgt Ion:180 Resp: 170502
 Ion Ratio Lower Upper
 180 100
 182 96.4 75.4 113.2
 145 31.5 24.7 37.1





#69

Naphthalene

Concen: 5.188 ug/L

RT: 14.11 min Scan# 3973

Delta R.T. -0.00 min

Lab File: VU038942.D

Acq: 17 Jun 2020 13:42

Instrument :

MSVOA_U

ClientSampleId :

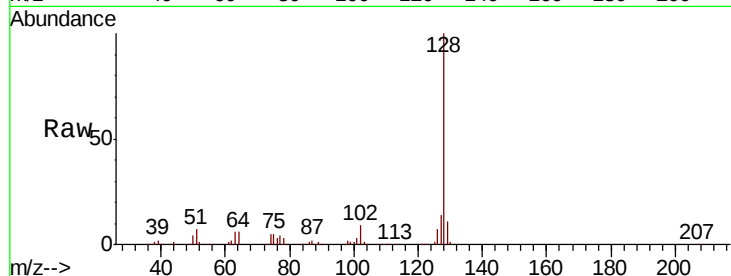
Tot Ion:128 Resp: 350117

Ion Ratio Lower Upper

128 100

129 10.9 8.6 12.8

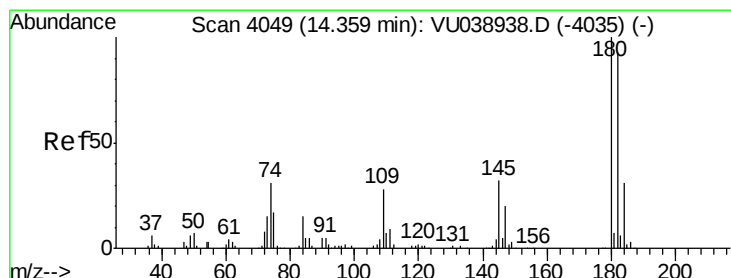
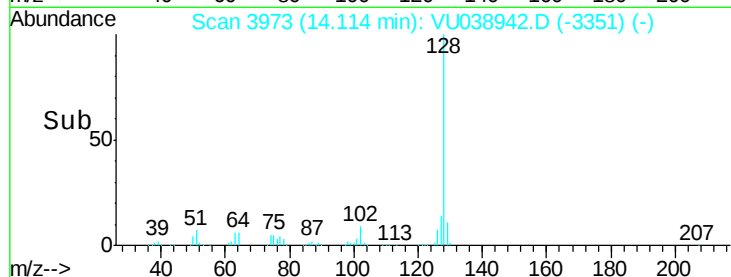
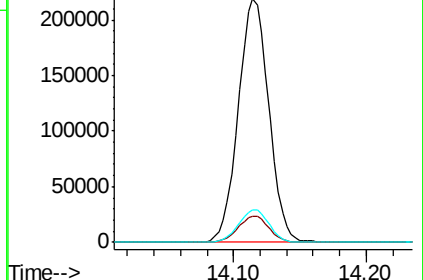
127 13.3 10.6 16.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.999 ug/L

RT: 14.36 min Scan# 4049

Delta R.T. -0.00 min

Lab File: VU038942.D

Acq: 17 Jun 2020 13:42

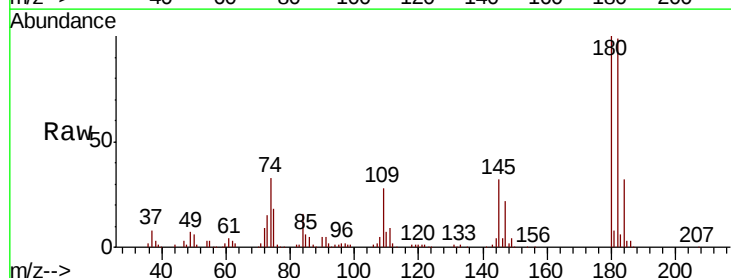
Tgt Ion:180 Resp: 161708

Ion Ratio Lower Upper

180 100

182 96.7 75.5 113.3

145 32.5 27.2 40.8



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

