

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU022420\
 Data File : VU036895.D
 Acq On : 24 Feb 2020 19:53
 Operator : JC/MD
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Feb 25 03:22:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM022420WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Feb 25 03:18:14 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	266186	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	251829	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	111131	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	114031	51.01	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	102.02%
7) Chloroethane-d5	1.93	69	95139	51.44	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	102.88%
11) 1,1-Dichloroethene-d2	2.59	63	192265	51.36	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	102.72%
21) 2-Butanone-d5	4.67	46	161132	107.46	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	107.46%
24) Chloroform-d	5.11	84	181828	53.27	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	106.54%
26) 1,2-Dichloroethane-d4	5.74	65	119292	51.64	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.28%
32) Benzene-d6	5.76	84	382669	52.55	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	105.10%
36) 1,2-Dichloropropane-d6	6.73	67	123645	52.41	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	104.82%
41) Toluene-d8	7.92	98	355495	52.62	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	105.24%
43) trans-1,3-Dichloropropene-	8.20	79	56052	51.12	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	102.24%
47) 2-Hexanone-d5	8.66	63	120476	104.43	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	104.43%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	175907	52.88	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	105.76%
64) 1,2-Dichlorobenzene-d4	12.21	152	114316	52.62	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	105.24%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.40	85	115260	51.049	ug/L	99
3) Chloromethane	1.54	50	125214	48.205	ug/L	99
5) Vinyl chloride	1.62	62	137231	51.219	ug/L	100
6) Bromomethane	1.87	94	71675	52.140	ug/L	98
8) Chloroethane	1.95	64	83462	51.966	ug/L	100
9) Trichlorofluoromethane	2.16	101	145920	51.351	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	87404	51.418	ug/L	99
12) 1,1-Dichloroethene	2.61	96	89084	51.814	ug/L	88
13) Acetone	2.66	43	111904	72.556	ug/L	99
14) Carbon disulfide	2.82	76	273834	50.340	ug/L	99
15) Methyl Acetate	2.98	43	122303	52.025	ug/L	99
16) Methylene chloride	3.08	84	107000	51.025	ug/L	99
17) trans-1,2-Dichloroethene	3.39	96	94285	51.049	ug/L	96
18) Methyl tert-butyl Ether	3.40	73	308518	51.388	ug/L	100
19) 1,1-Dichloroethane	3.91	63	183076	51.013	ug/L	97
20) cis-1,2-Dichloroethene	4.71	96	107561	52.083	ug/L	100
22) 2-Butanone	4.75	43	173474	93.274	ug/L	99

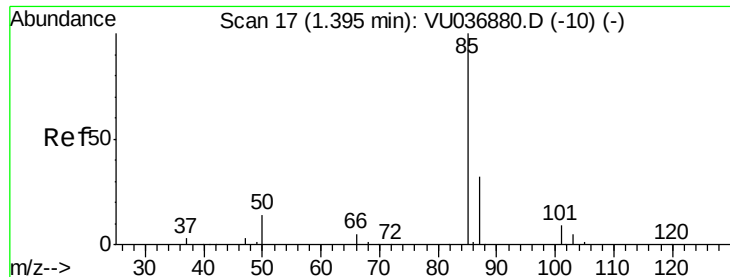
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU022420\
 Data File : VU036895.D
 Acq On : 24 Feb 2020 19:53
 Operator : JC/MD
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Feb 25 03:22:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM022420WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Feb 25 03:18:14 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	48526	51.885	ug/L	96
25) Chloroform	5.13	83	176741	51.041	ug/L	99
27) 1,2-Dichloroethane	5.83	62	146889	52.105	ug/L	99
29) Cyclohexane	5.43	56	173113	51.802	ug/L	99
30) 1,1,1-Trichloroethane	5.36	97	140651	52.093	ug/L	99
31) Carbon tetrachloride	5.56	117	109588	51.783	ug/L	98
33) Benzene	5.81	78	416579	52.363	ug/L	100
34) Trichloroethene	6.57	95	104875	53.634	ug/L	99
35) Methylcyclohexane	6.79	83	172464	50.870	ug/L	100
37) 1,2-Dichloropropane	6.83	63	110644	51.652	ug/L	100
38) Bromodichloromethane	7.14	83	130527	51.622	ug/L	98
39) cis-1,3-Dichloropropene	7.64	75	169600	51.398	ug/L	100
40) 4-Methyl-2-pentanone	7.82	43	330884	104.829	ug/L	99
42) Toluene	8.00	91	443286	52.300	ug/L	99
44) trans-1,3-Dichloropropene	8.23	75	144384	50.441	ug/L	100
45) 1,1,2-Trichloroethane	8.42	97	98908	51.924	ug/L	100
46) Tetrachloroethene	8.57	164	66158	51.360	ug/L	98
48) 2-Hexanone	8.71	43	261473	103.808	ug/L	99
49) Dibromochloromethane	8.83	129	93141	51.515	ug/L	99
50) 1,2-Dibromoethane	8.95	107	103996	52.208	ug/L	99
51) Chlorobenzene	9.47	112	257040	51.182	ug/L	99
52) Ethylbenzene	9.59	91	473576	51.541	ug/L	100
53) m,p-Xylene	9.71	106	175581	52.095	ug/L	99
54) o-xylene	10.12	106	173441	51.595	ug/L	99
55) Styrene	10.13	104	287388	52.298	ug/L	99
56) Isopropylbenzene	10.50	105	449284	52.037	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.80	83	175360	51.493	ug/L	98
59) 1,2,3-Trichloropropane	10.84	75	140046	50.821	ug/L	100
61) Bromoform	10.31	173	62546	49.781	ug/L	99
62) 1,3-Dichlorobenzene	11.76	146	180403	50.041	ug/L	99
63) 1,4-Dichlorobenzene	11.85	146	179402	50.369	ug/L	100
65) 1,2-Dichlorobenzene	12.23	146	183033	50.849	ug/L	98
66) 1,2-Dibromo-3-chloropropan	13.02	75	36223	50.724	ug/L	94
67) 1,3,5-Trichlorobenzene	13.24	180	117973	51.555	ug/L	100
68) 1,2,4-trichlorobenzene	13.87	180	90026	52.511	ug/L	99
69) Naphthalene	14.12	128	148740	49.147	ug/L	99
70) 1,2,3-Trichlorobenzene	14.36	180	91242	53.257	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 51.049 ug/L

RT: 1.40 min Scan# 18

Delta R.T. 0.00 min

Lab File: VU036895.D

Acq: 24 Feb 2020 19:53

Instrument :

MSVOA_U

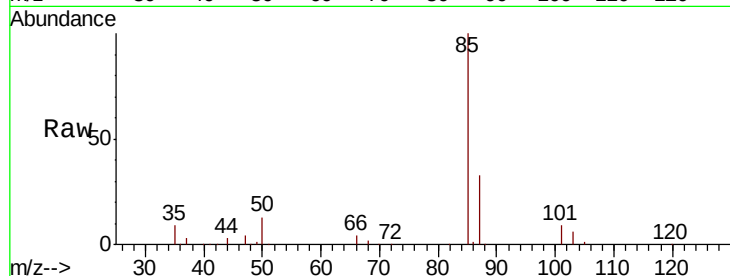
ClientSampleId :

Tot Ion: 85 Resp: 115260

Ion Ratio Lower Upper

85 100

87 31.9 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VU036880.D (-10) (-)

Ion 87.00 (86.70 to 87.70): VU036880.D (-10) (-)

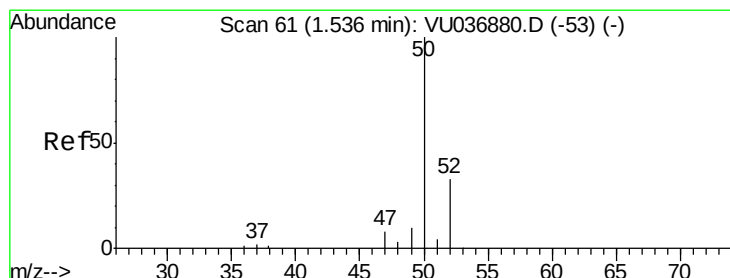
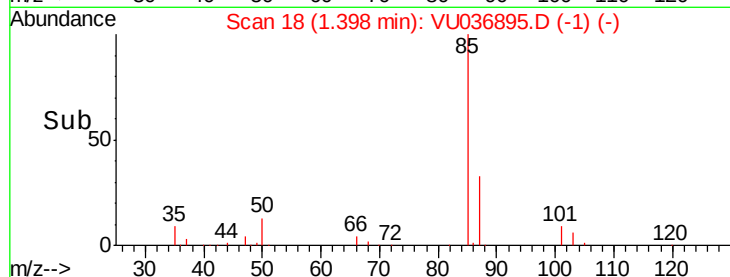
1.40

100000

50000

0

Time-->



#3

Chloromethane

Concen: 48.205 ug/L

RT: 1.54 min Scan# 61

Delta R.T. -0.00 min

Lab File: VU036895.D

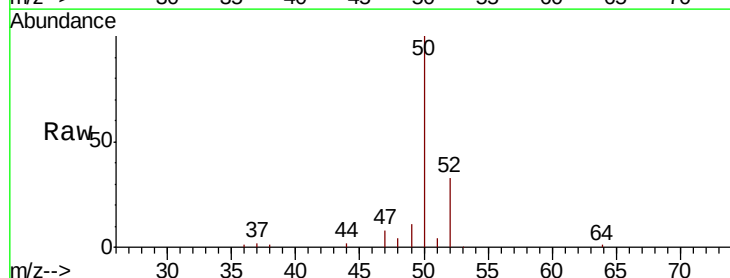
Acq: 24 Feb 2020 19:53

Tgt Ion: 50 Resp: 125214

Ion Ratio Lower Upper

50 100

52 33.1 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU036880.D (-53) (-)

Ion 52.00 (51.70 to 52.70): VU036880.D (-53) (-)

1.54

120000

100000

80000

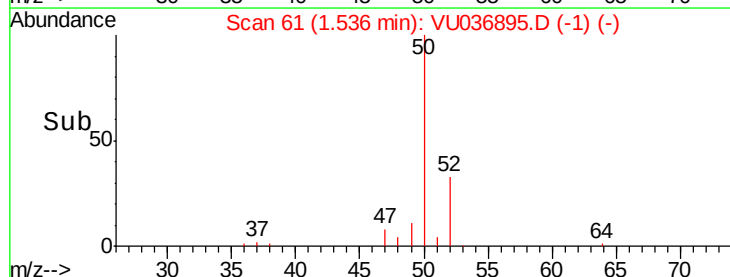
60000

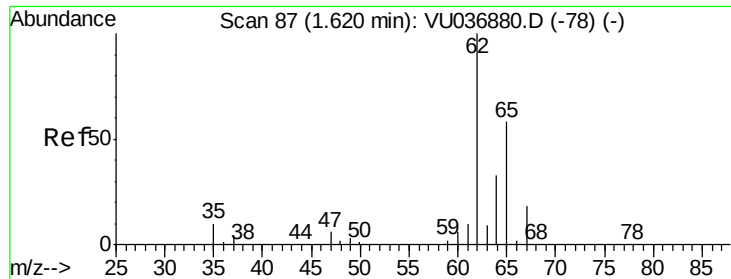
40000

20000

0

Time-->





#5

Vinyl chloride

Concen: 51.219 ug/L

RT: 1.62 min Scan# 87

Delta R.T. -0.00 min

Lab File: VU036895.D

Acq: 24 Feb 2020 19:53

Instrument :

MSVOA_U

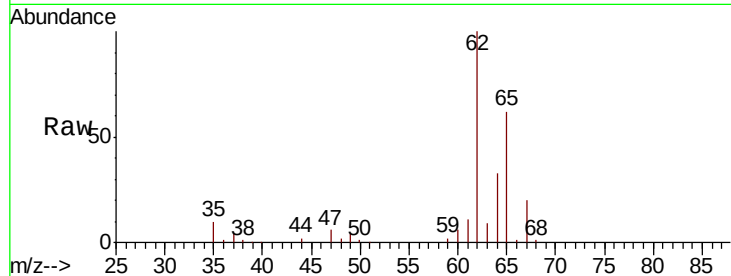
ClientSampled :

Tot Ion: 62 Resp: 137231

Ion Ratio Lower Upper

62 100

64 33.2 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

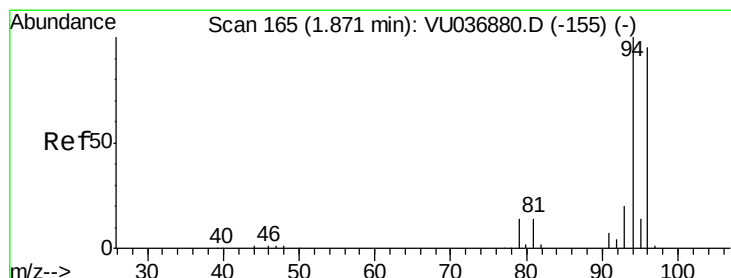
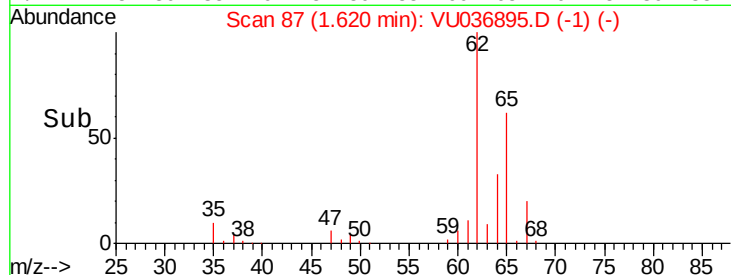
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 52.140 ug/L

RT: 1.87 min Scan# 165

Delta R.T. -0.00 min

Lab File: VU036895.D

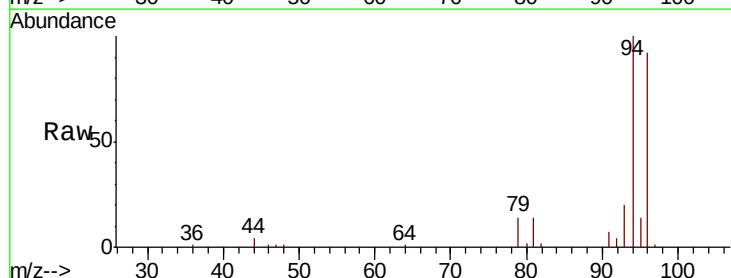
Acq: 24 Feb 2020 19:53

Tgt Ion: 94 Resp: 71675

Ion Ratio Lower Upper

94 100

96 92.4 66.1 122.8



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

60000

50000

40000

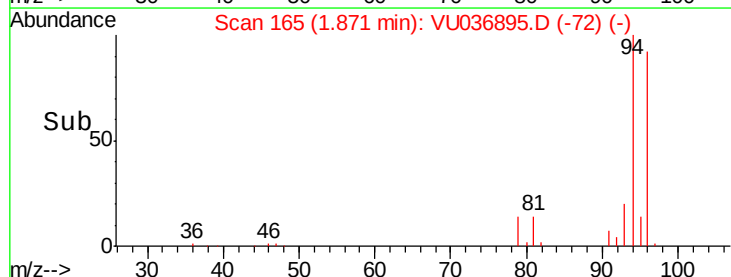
30000

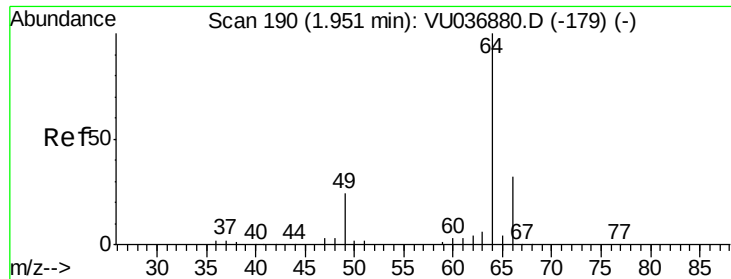
20000

10000

0

Time-->





#8

Chloroethane

Concen: 51.966 ug/L

RT: 1.95 min Scan# 190

Delta R.T. -0.00 min

Lab File: VU036895.D

Acq: 24 Feb 2020 19:53

Instrument :

MSVOA_U

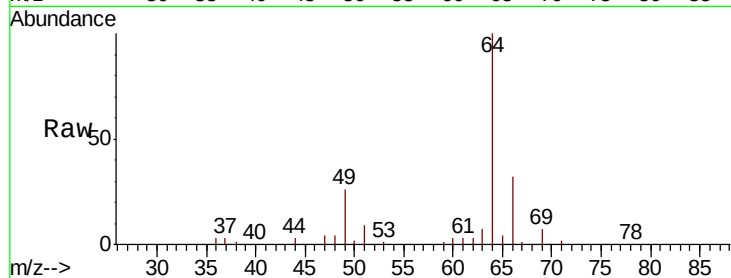
ClientSampleId :

Tot Ion: 64 Resp: 83462

Ion Ratio Lower Upper

64 100

66 32.0 22.5 41.9



Abundance Ion 64.00 (63.70 to 64.70): VU036880.D (-179) (-)

Ion 66.00 (65.70 to 66.70): VU036895.D (-130) (-)

1.95

60000

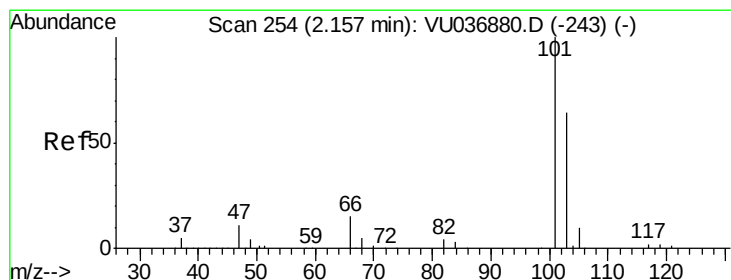
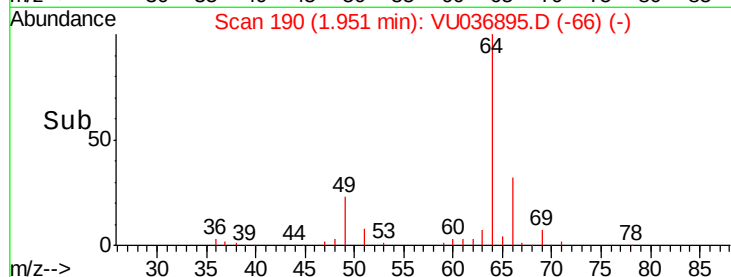
40000

20000

0

1.90 1.95 2.00

Time-->



#9

Trichlorofluoromethane

Concen: 51.351 ug/L

RT: 2.16 min Scan# 255

Delta R.T. 0.00 min

Lab File: VU036895.D

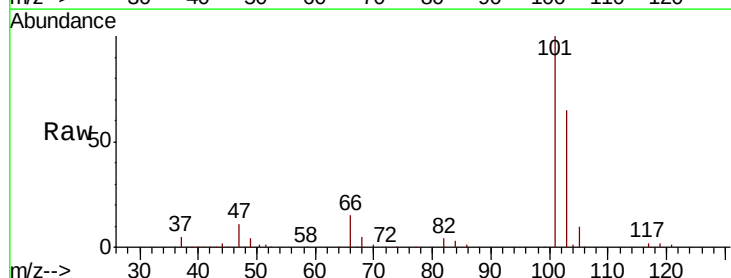
Acq: 24 Feb 2020 19:53

Tgt Ion:101 Resp: 145920

Ion Ratio Lower Upper

101 100

103 65.3 50.9 76.3



Abundance Ion 101.00 (100.70 to 101.70): VU036880.D (-243) (-)

Ion 103.00 (102.70 to 103.70): VU036895.D (-130) (-)

2.16

120000

100000

80000

60000

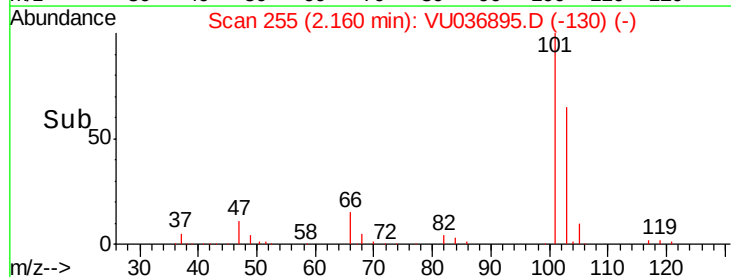
40000

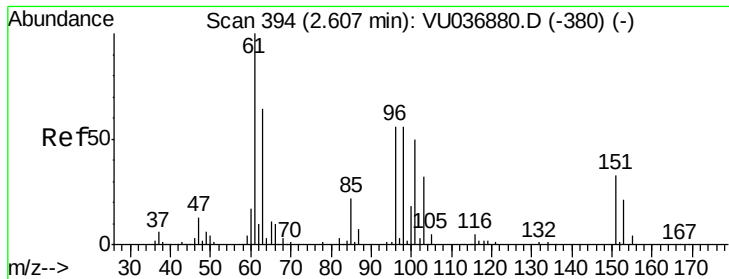
20000

0

2.10 2.15 2.20 2.25

Time-->





#10

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

Concen: 51.418 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU036895.D

Acq: 24 Feb 2020 19:53

Instrument :

MSVOA_U

ClientSampled :

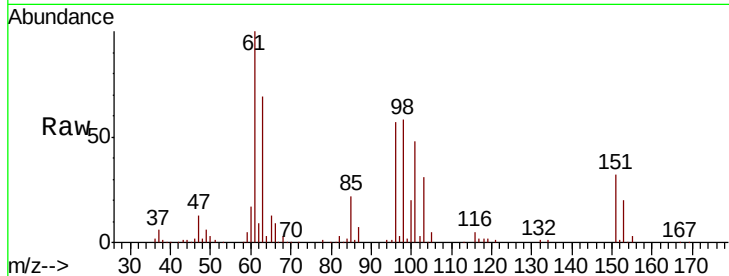
Tot Ion:101 Resp: 87404

Ion Ratio Lower Upper

101 100

85 45.7 36.4 54.6

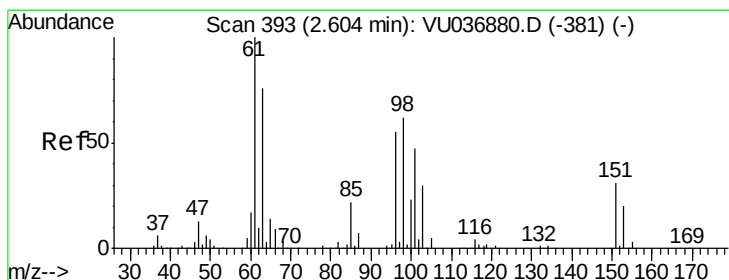
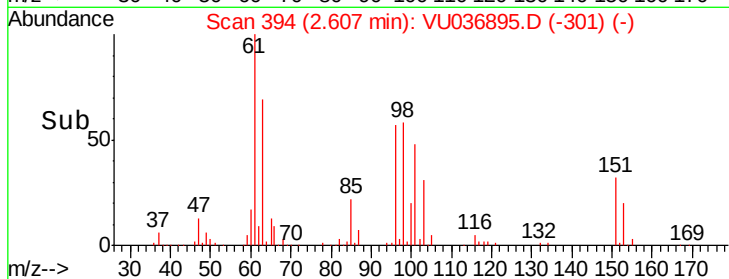
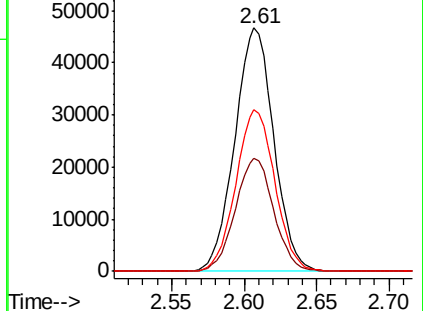
151 66.3 52.4 78.6



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: 51.814 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU036895.D

Acq: 24 Feb 2020 19:53

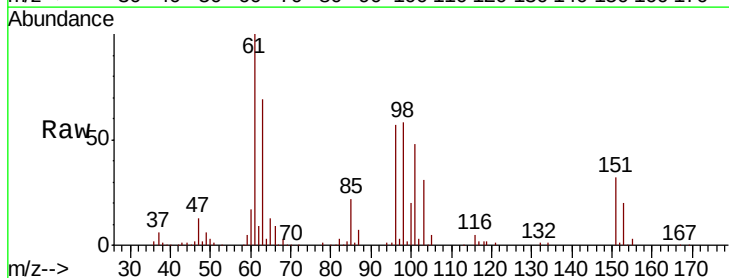
Tgt Ion: 96 Resp: 89084

Ion Ratio Lower Upper

96 100

61 174.5 127.5 236.7

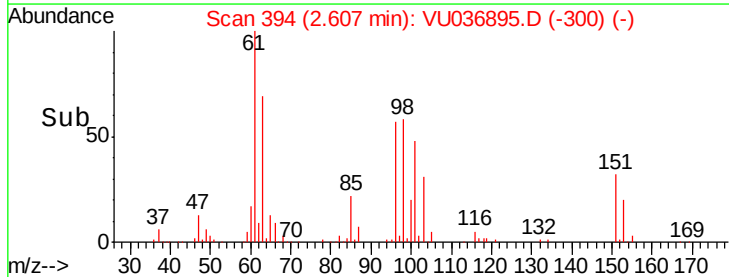
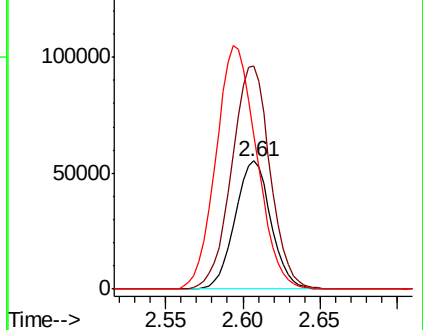
63 120.7 101.4 188.2

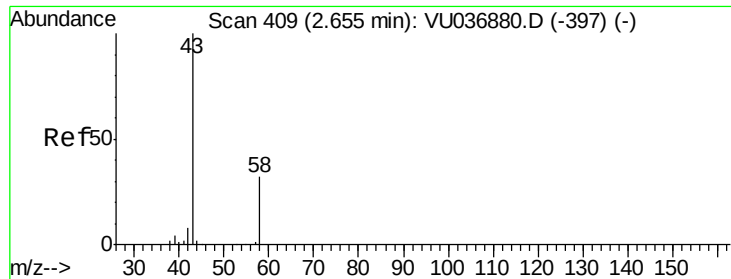


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 72.556 ug/L

RT: 2.66 min Scan# 409

Delta R.T. -0.00 min

Lab File: VU036895.D

Acq: 24 Feb 2020 19:53

Instrument :

MSVOA_U

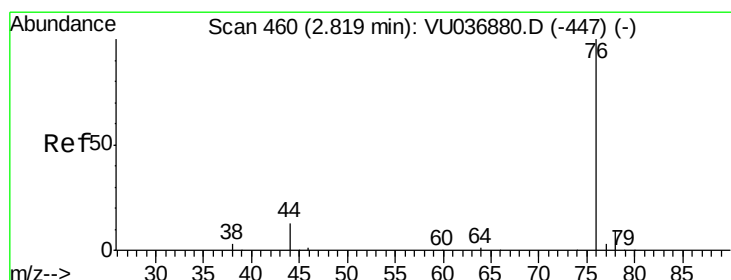
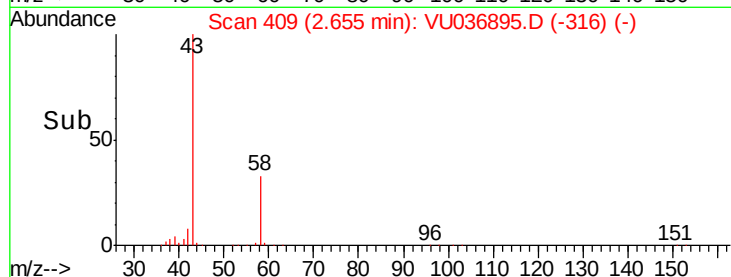
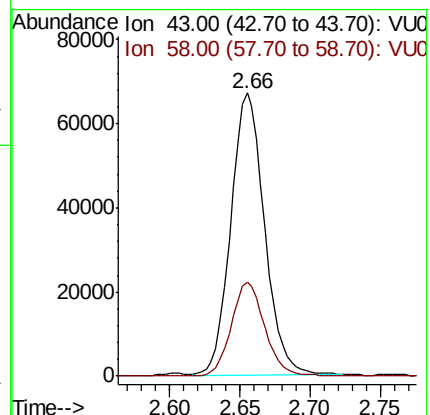
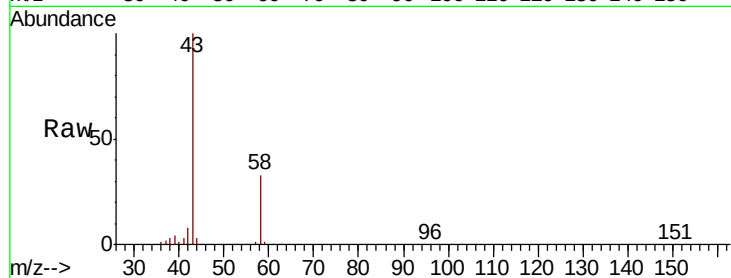
ClientSampleId :

Tot Ion: 43 Resp: 111904

Ion Ratio Lower Upper

43 100

58 32.8 0.0 64.6



#14

Carbon disulfide

Concen: 50.340 ug/L

RT: 2.82 min Scan# 461

Delta R.T. 0.00 min

Lab File: VU036895.D

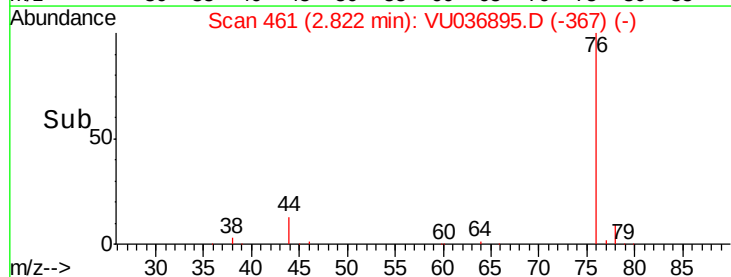
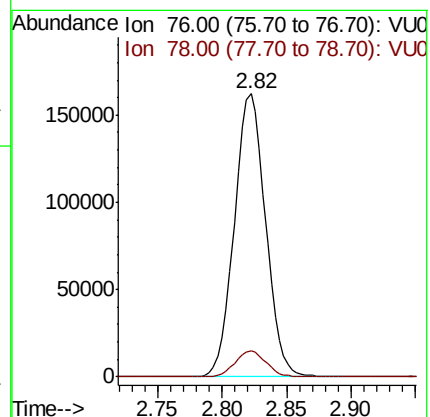
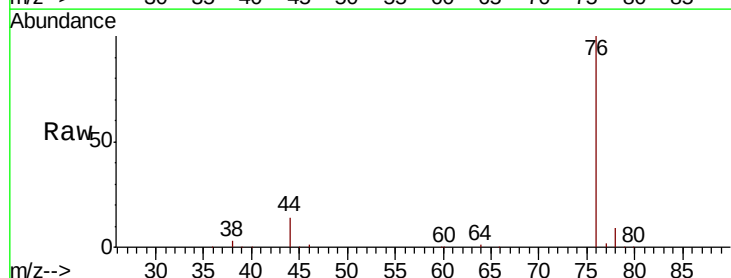
Acq: 24 Feb 2020 19:53

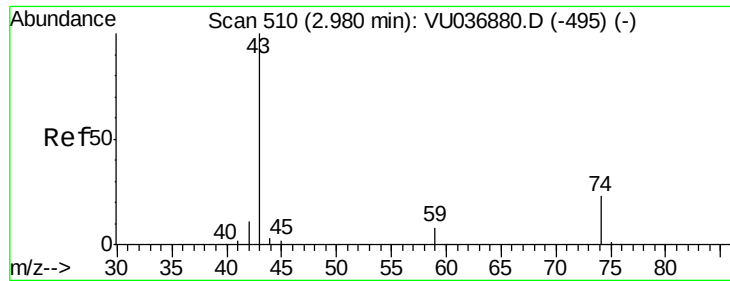
Tgt Ion: 76 Resp: 273834

Ion Ratio Lower Upper

76 100

78 9.1 7.1 10.7

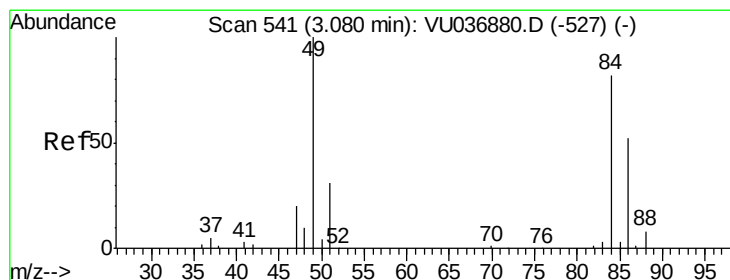
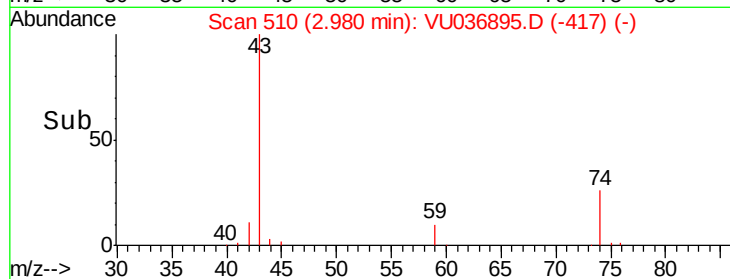
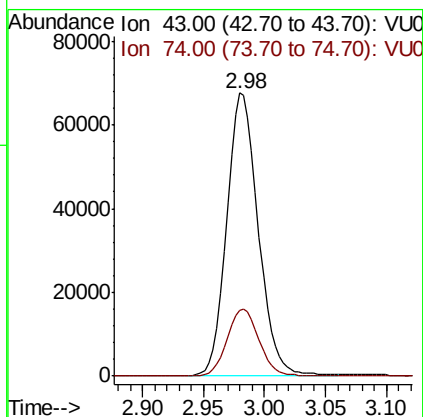
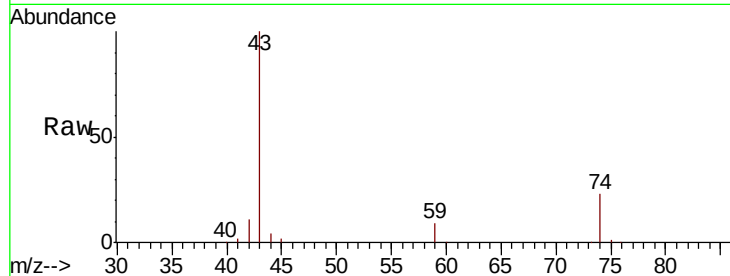




#15
Methvl Acetate
Concen: 52.025 ug/L
RT: 2.98 min Scan# 510
Delta R.T. -0.00 min
Lab File: VU036895.D
Acq: 24 Feb 2020 19:53

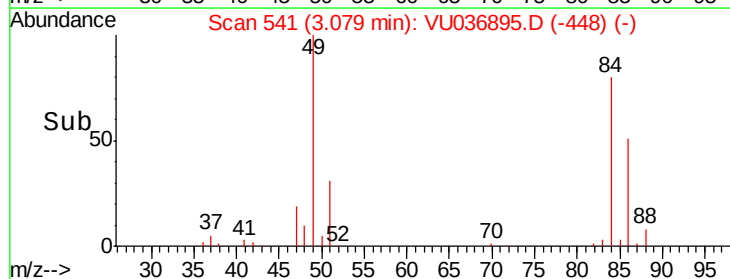
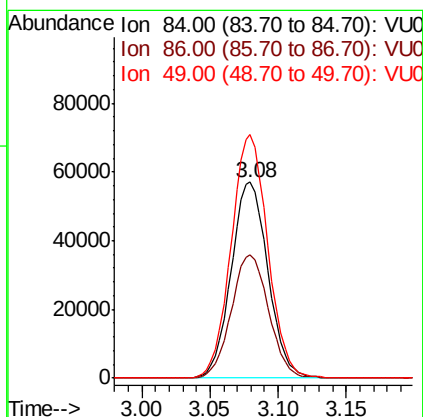
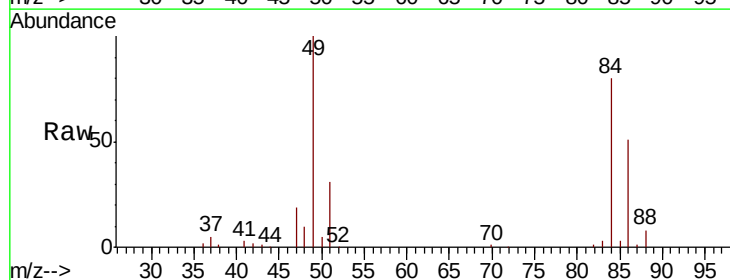
Instrument :
MSVOA_U
ClientSampleId :

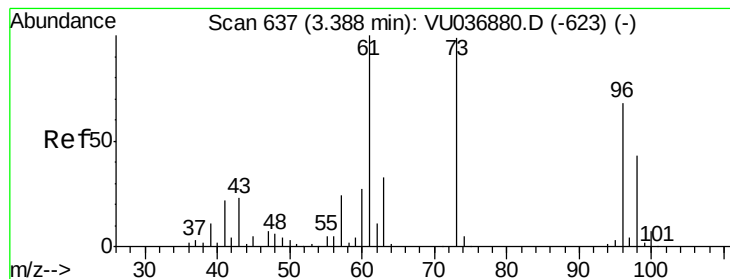
Tot Ion: 43 Resp: 122303
Ion Ratio Lower Upper
43 100
74 24.0 19.0 28.4



#16
Methylene chloride
Concen: 51.025 ug/L
RT: 3.08 min Scan# 541
Delta R.T. -0.00 min
Lab File: VU036895.D
Acq: 24 Feb 2020 19:53

Tgt Ion: 84 Resp: 107000
Ion Ratio Lower Upper
84 100
86 62.9 44.4 82.5
49 124.2 85.9 159.5





#17

trans-1,2-Dichloroethene

Concen: 51.049 ug/L

RT: 3.39 min Scan# 638

Delta R.T. 0.00 min

Lab File: VU036895.D

Acq: 24 Feb 2020 19:53

Instrument :

MSVOA_U

ClientSampled :

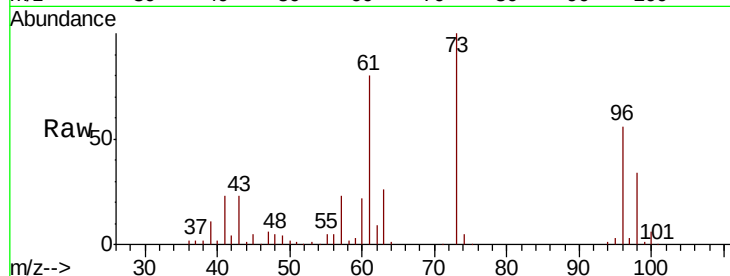
Tot Ion: 96 Resp: 94285

Ion Ratio Lower Upper

96 100

61 142.8 103.8 192.8

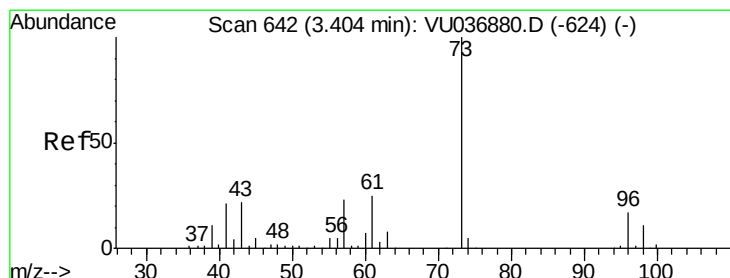
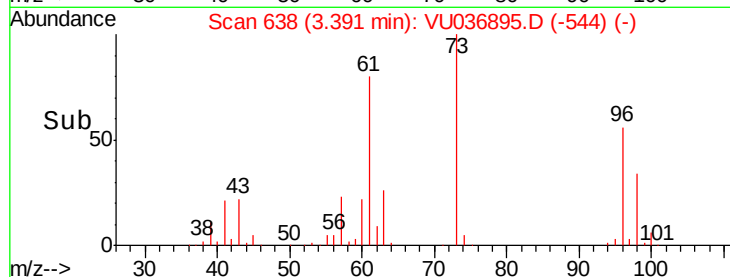
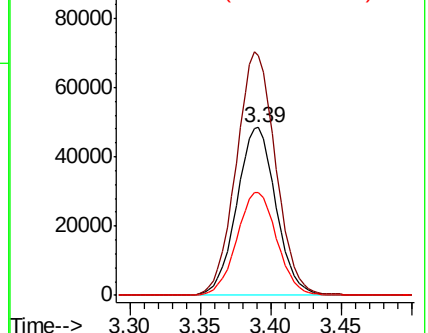
98 61.3 44.2 82.2



Abundance Ion 96.00 (95.70 to 96.70): VU036880.D (-623) (-)

Ion 61.00 (60.70 to 61.70): VU036880.D (-623) (-)

Ion 98.00 (97.70 to 98.70): VU036880.D (-623) (-)



#18

Methyl tert-butyl Ether

Concen: 51.388 ug/L

RT: 3.40 min Scan# 642

Delta R.T. -0.00 min

Lab File: VU036895.D

Acq: 24 Feb 2020 19:53

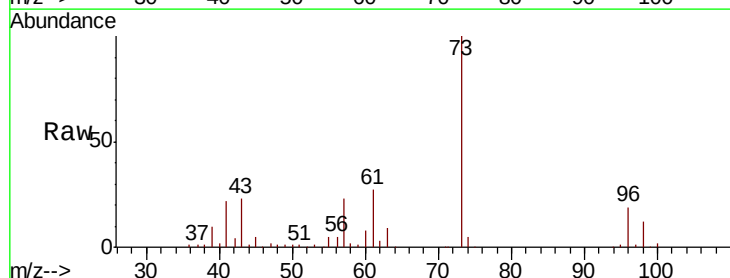
Tgt Ion: 73 Resp: 308518

Ion Ratio Lower Upper

73 100

43 22.5 18.1 27.1

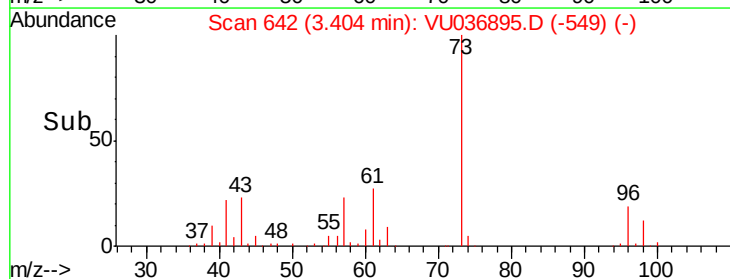
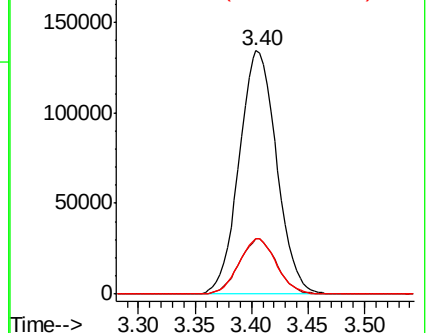
57 22.8 18.4 27.6

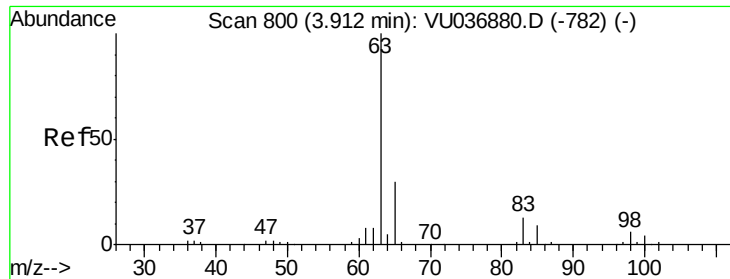


Abundance Ion 73.00 (72.70 to 73.70): VU036880.D (-624) (-)

Ion 43.00 (42.70 to 43.70): VU036880.D (-624) (-)

Ion 57.00 (56.70 to 57.70): VU036880.D (-624) (-)





#19

1,1-Dichloroethane

Concen: 51.013 ug/L

RT: 3.91 min Scan# 800

Delta R.T. -0.00 min

Lab File: VU036895.D

Acq: 24 Feb 2020 19:53

Instrument :

MSVOA_U

ClientSampled :

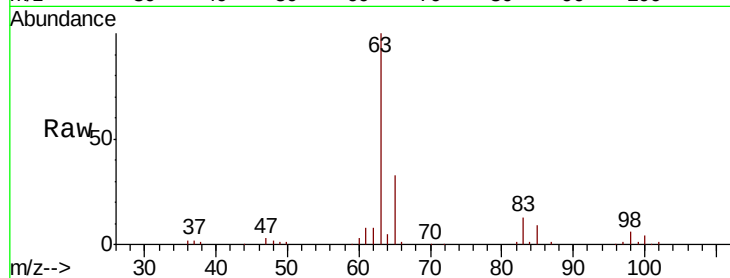
Tot Ion: 63 Resp: 183076

Ion Ratio Lower Upper

63 100

65 32.5 21.3 39.5

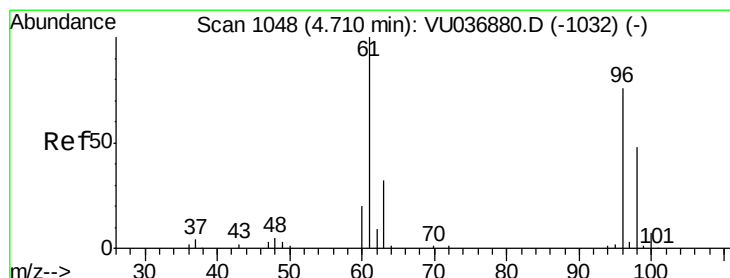
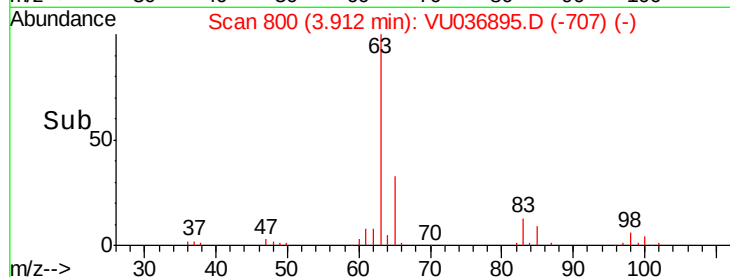
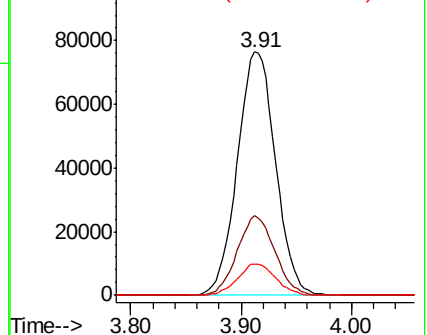
83 13.0 9.2 17.2



Abundance Ion 63.00 (62.70 to 63.70): VU036880.D (-782) (-)

Ion 65.00 (64.70 to 65.70): VU036880.D (-782) (-)

Ion 83.00 (82.70 to 83.70): VU036880.D (-782) (-)



#20

cis-1,2-Dichloroethene

Concen: 52.083 ug/L

RT: 4.71 min Scan# 1048

Delta R.T. -0.00 min

Lab File: VU036895.D

Acq: 24 Feb 2020 19:53

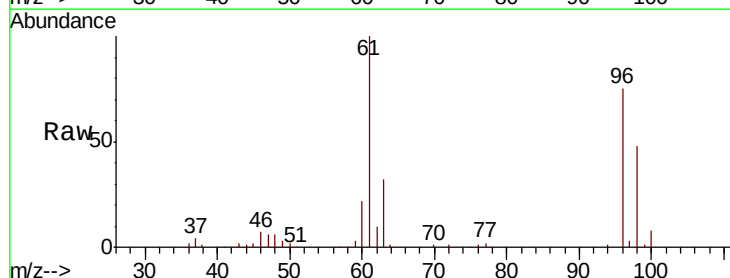
Tgt Ion: 96 Resp: 107561

Ion Ratio Lower Upper

96 100

61 132.6 93.1 172.9

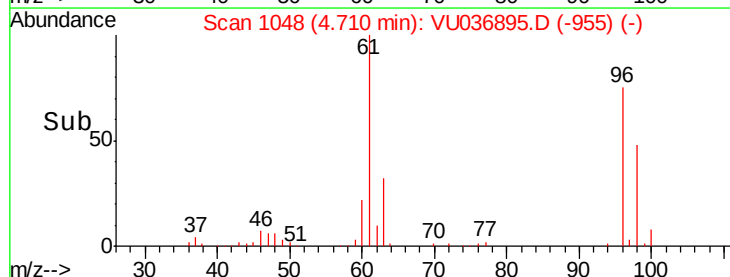
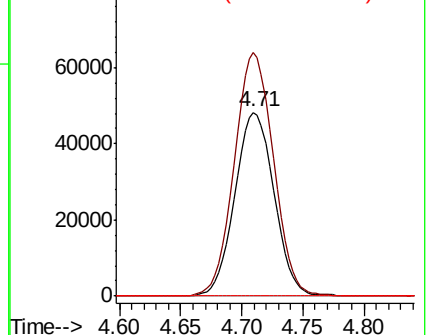
68 0.0 0.0 0.0

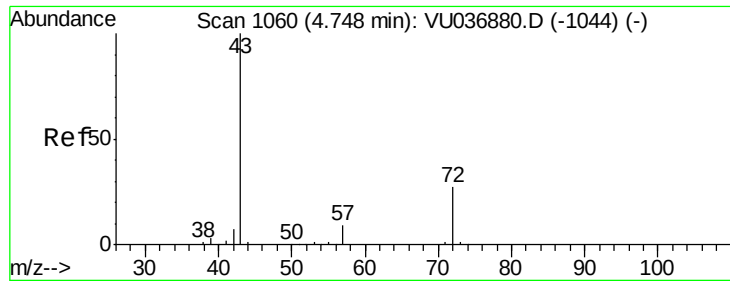


Abundance Ion 96.00 (95.70 to 96.70): VU036880.D (-1032) (-)

Ion 61.00 (60.70 to 61.70): VU036880.D (-1032) (-)

Ion 68.00 (67.70 to 68.70): VU036880.D (-1032) (-)





#22

2-Butanone

Concen: 93.274 ug/L

RT: 4.75 min Scan# 1060

Delta R.T. -0.00 min

Lab File: VU036895.D

Acq: 24 Feb 2020 19:53

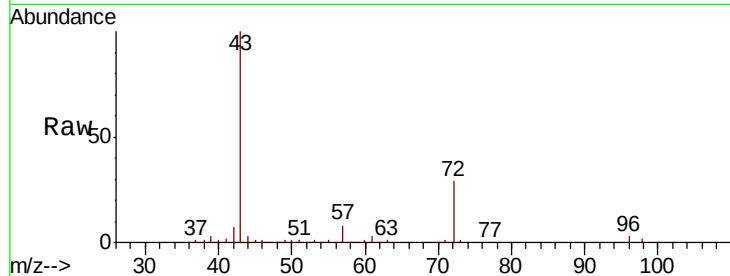
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 173474

Ion Ratio Lower Upper

43 100

72 28.3 13.9 41.6



Abundance Ion 43.00 (42.70 to 43.70): VU036880.D (-1044) (-)

Ion 72.00 (71.70 to 72.70): VU036880.D (-1044) (-)

4.75

80000

60000

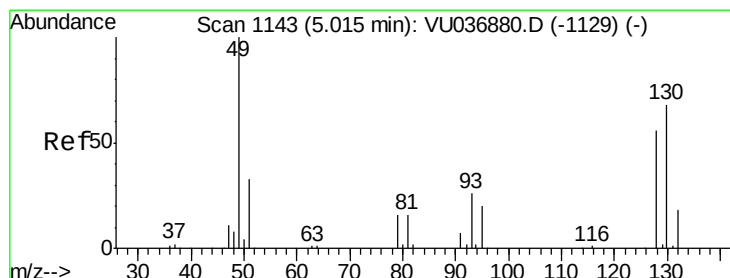
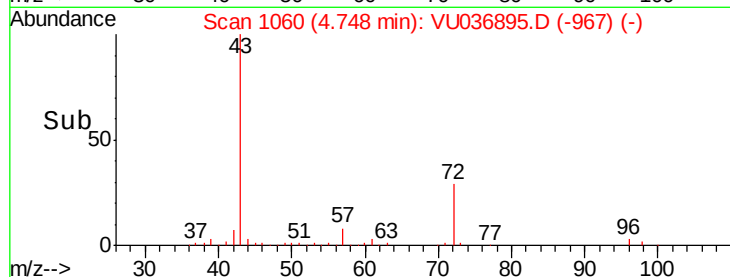
40000

20000

0

4.70 4.80

Time-->



#23

Bromochloromethane

Concen: 51.885 ug/L

RT: 5.02 min Scan# 1143

Delta R.T. -0.00 min

Lab File: VU036895.D

Acq: 24 Feb 2020 19:53

Tgt Ion: 128 Resp: 48526

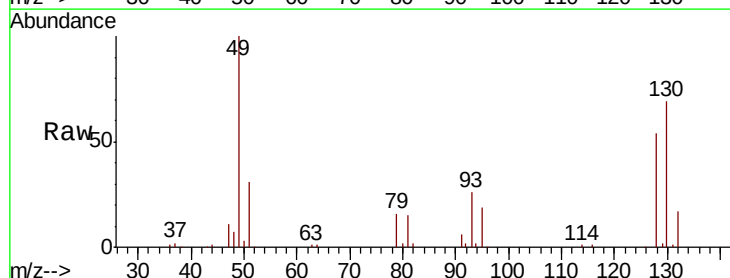
Ion Ratio Lower Upper

128 100

49 186.1 126.5 234.9

130 128.3 86.0 159.8

51 56.9 47.3 70.9



Abundance Ion 128.00 (127.70 to 128.70): VU036880.D (-1129) (-)

Ion 49.00 (48.70 to 49.70): VU036880.D (-1129) (-)

Ion 130.00 (129.70 to 130.70): VU036880.D (-1129) (-)

Ion 51.00 (50.70 to 51.70): VU036880.D (-1129) (-)

60000

50000

40000

30000

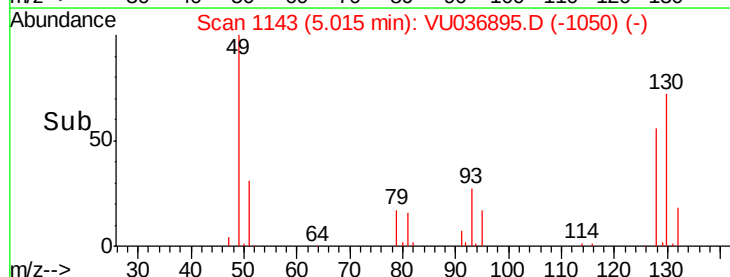
20000

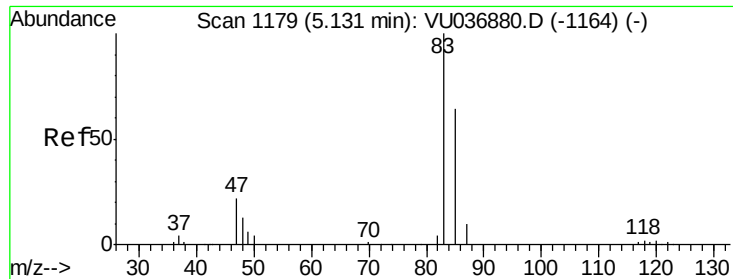
10000

0

4.95 5.00 5.05 5.10

Time-->

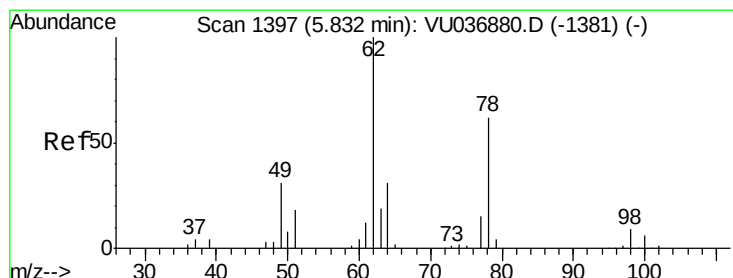
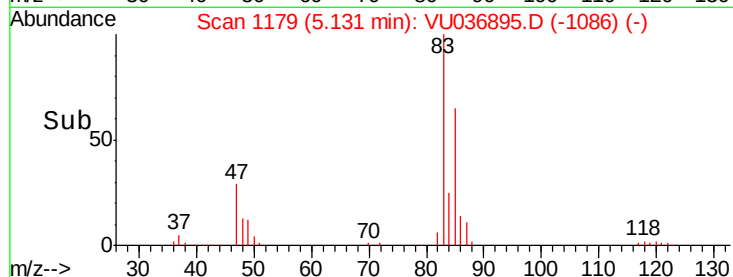
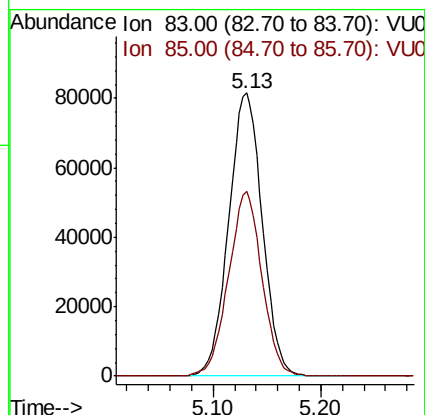
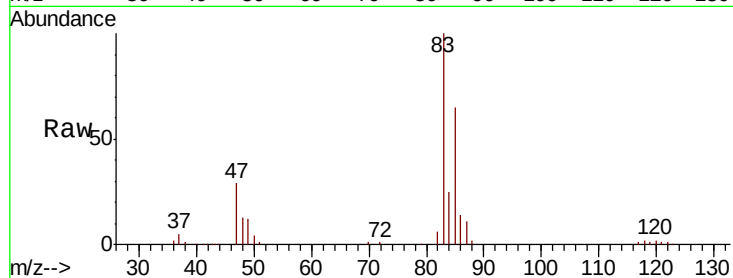




#25
Chloroform
Concen: 51.041 ug/L
RT: 5.13 min Scan# 1179
Delta R.T. -0.00 min
Lab File: VU036895.D
Acq: 24 Feb 2020 19:53

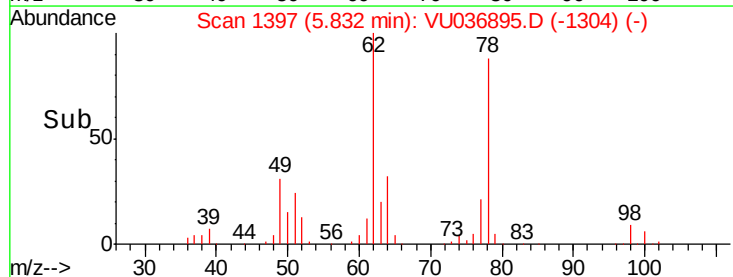
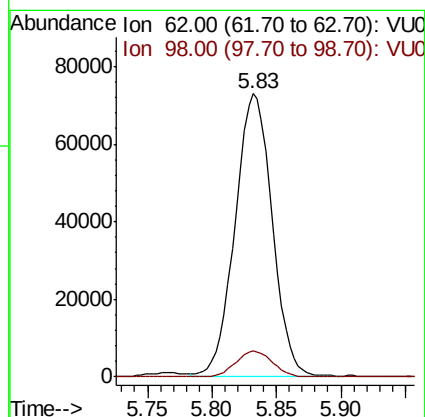
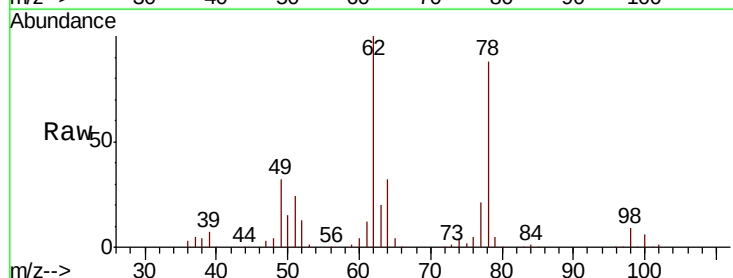
Instrument :
MSVOA_U
ClientSampleId :

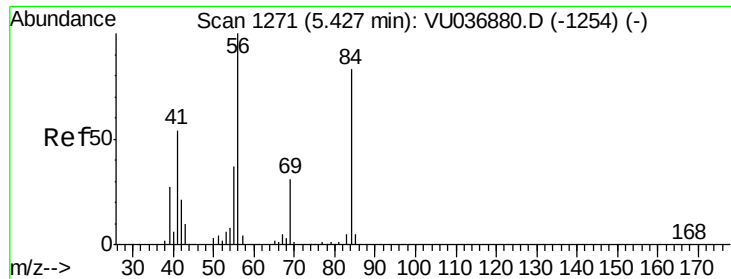
Tot Ion: 83 Resp: 176741
Ion Ratio Lower Upper
83 100
85 65.3 45.1 83.9



#27
1,2-Dichloroethane
Concen: 52.105 ug/L
RT: 5.83 min Scan# 1397
Delta R.T. -0.00 min
Lab File: VU036895.D
Acq: 24 Feb 2020 19:53

Tgt Ion: 62 Resp: 146889
Ion Ratio Lower Upper
62 100
98 9.1 7.1 10.7

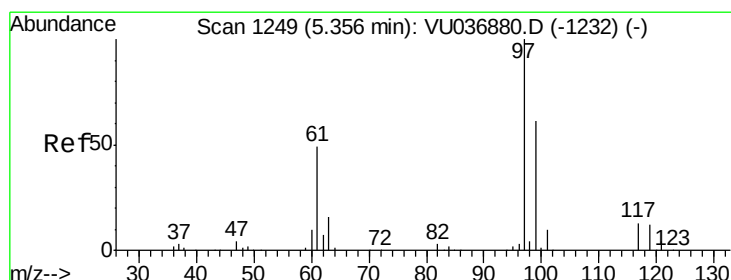
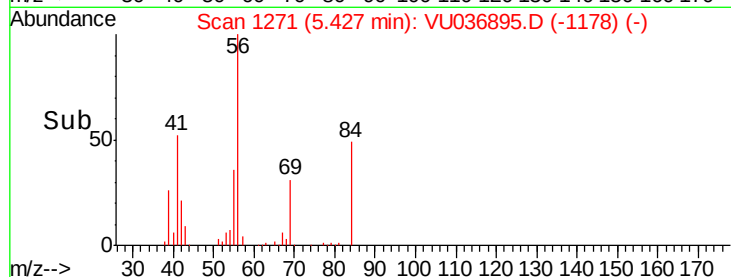
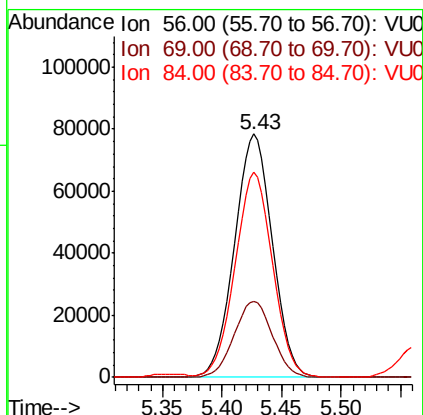
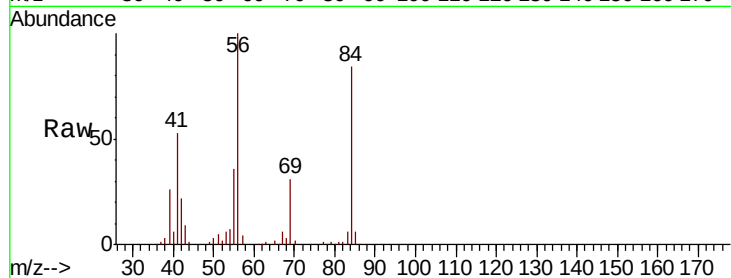




#29
Cyclohexane
Concen: 51.802 ug/L
RT: 5.43 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VU036895.D
Acq: 24 Feb 2020 19:53

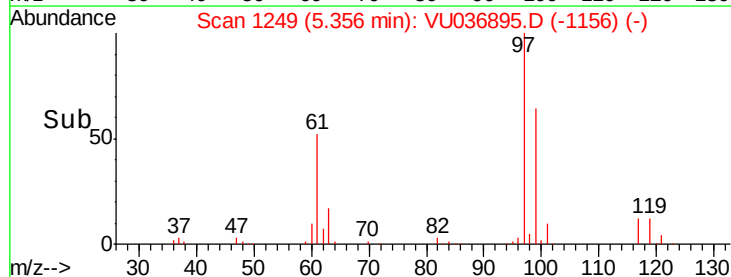
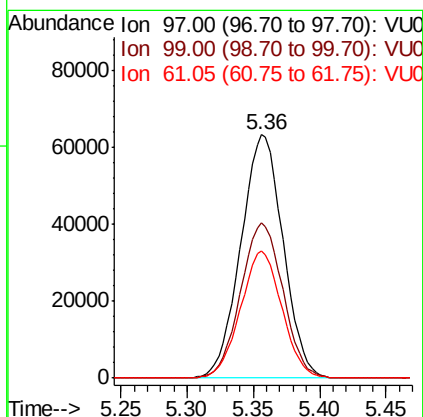
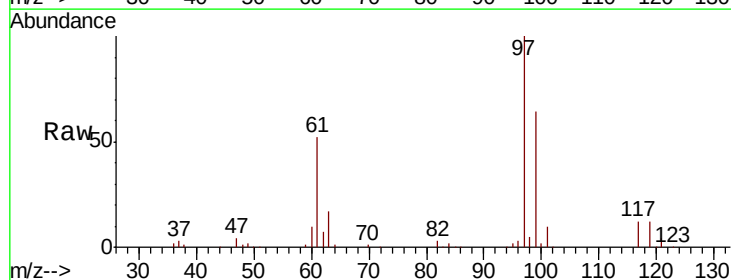
Instrument :
MSVOA_U
ClientSampled :

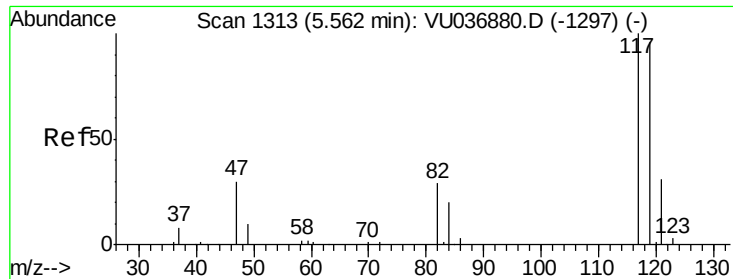
Tot Ion: 56 Resp: 173113
Ion Ratio Lower Upper
56 100
69 31.4 24.6 37.0
84 83.4 67.0 100.4



#30
1,1,1-Trichloroethane
Concen: 52.093 ug/L
RT: 5.36 min Scan# 1249
Delta R.T. -0.00 min
Lab File: VU036895.D
Acq: 24 Feb 2020 19:53

Tgt Ion: 97 Resp: 140651
Ion Ratio Lower Upper
97 100
99 63.6 50.4 75.6
61 51.1 40.3 60.5





#31

Carbon tetrachloride

Concen: 51.783 ug/L

RT: 5.56 min Scan# 1313

Delta R.T. -0.00 min

Lab File: VU036895.D

Acq: 24 Feb 2020 19:53

Instrument :

MSVOA_U

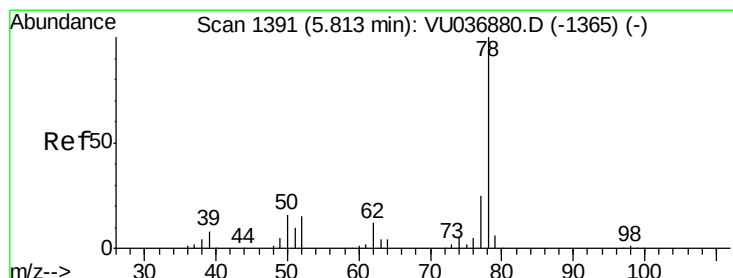
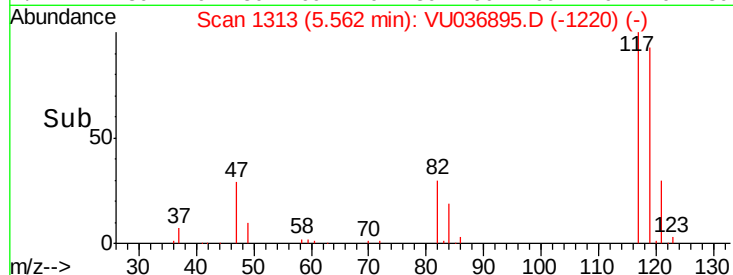
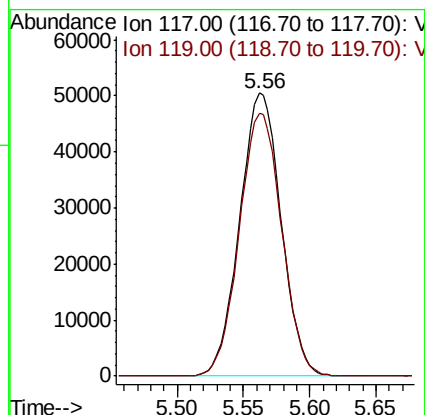
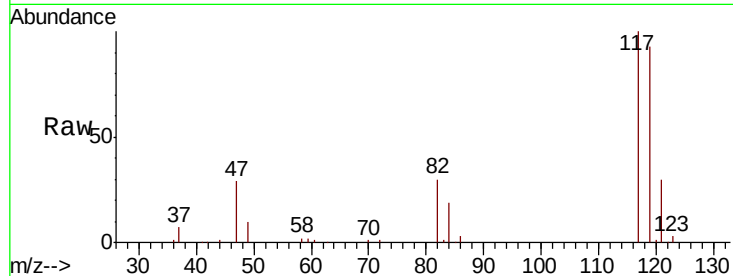
ClientSampleId :

Tot Ion:117 Resp: 109588

Ion Ratio Lower Upper

117 100

119 94.9 77.2 115.8



#33

Benzene

Concen: 52.363 ug/L

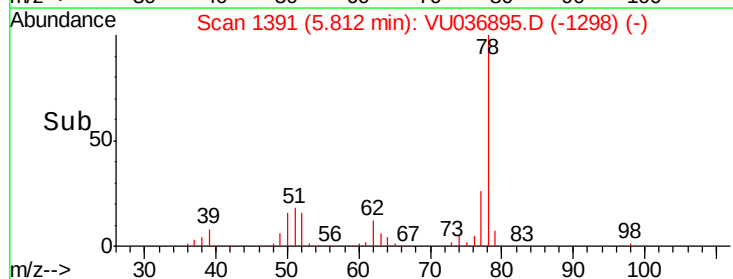
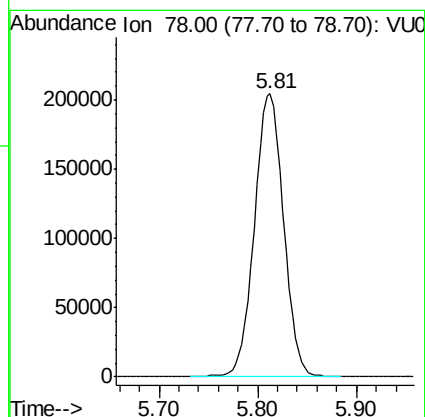
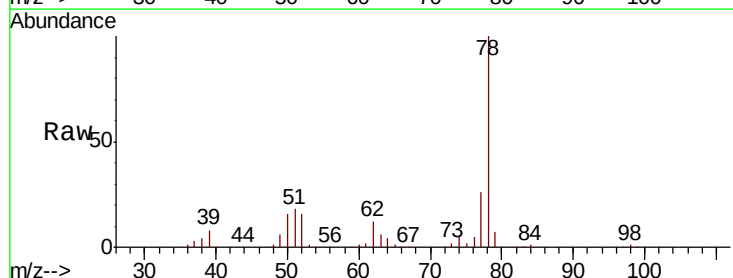
RT: 5.81 min Scan# 1391

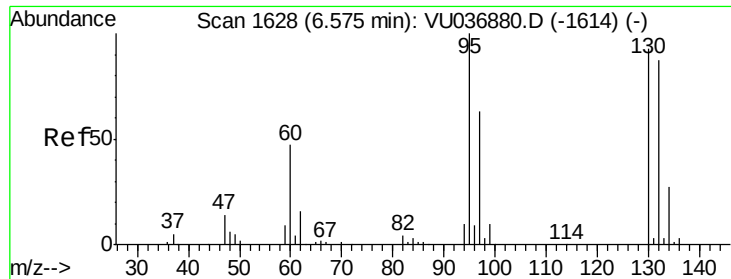
Delta R.T. -0.00 min

Lab File: VU036895.D

Acq: 24 Feb 2020 19:53

Tgt Ion: 78 Resp: 416579





#34

Trichloroethene

Concen: 53.634 ug/L

RT: 6.57 min Scan# 1628

Delta R.T. -0.00 min

Lab File: VU036895.D

Acq: 24 Feb 2020 19:53

Instrument :

MSVOA_U

ClientSampled :

Tot Ion: 95 Resp: 104875

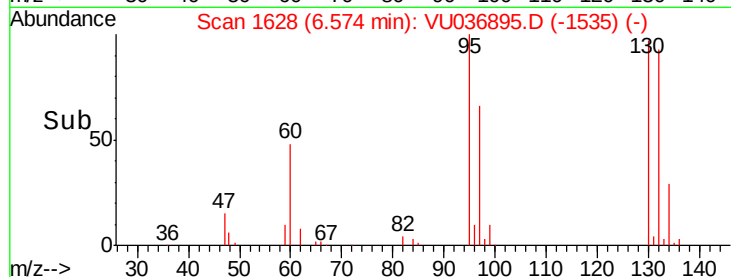
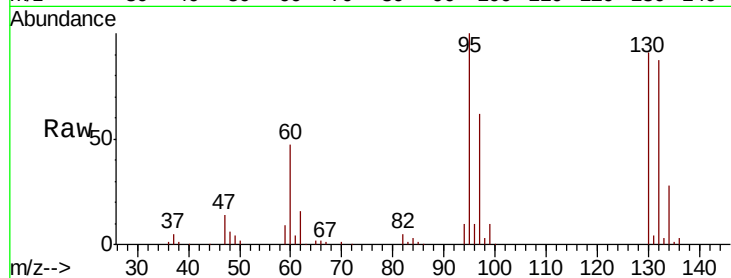
Ion Ratio Lower Upper

95 100

97 61.9 44.1 81.9

132 87.1 60.6 112.6

130 91.3 64.9 120.5



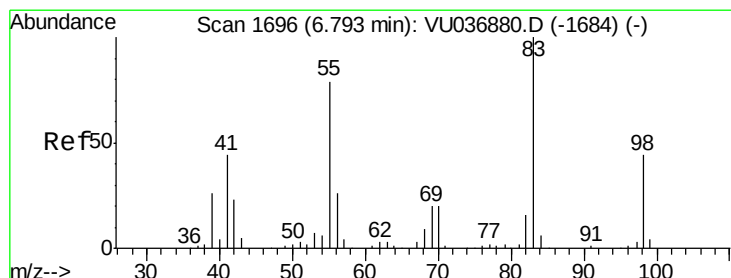
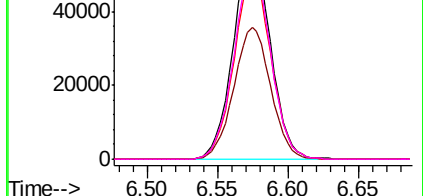
Abundance Ion 95.00 (94.70 to 95.70): VU036895.D (-1535) (-)

Ion 97.00 (96.70 to 97.70): VU036895.D (-1535) (-)

Ion 132.00 (131.70 to 132.70): VU036895.D (-1535) (-)

Ion 130.00 (129.70 to 130.70): VU036895.D (-1535) (-)

Time-->



#35

Methylcyclohexane

Concen: 50.870 ug/L

RT: 6.79 min Scan# 1696

Delta R.T. -0.00 min

Lab File: VU036895.D

Acq: 24 Feb 2020 19:53

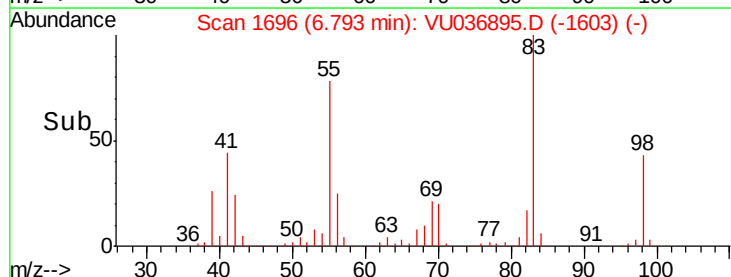
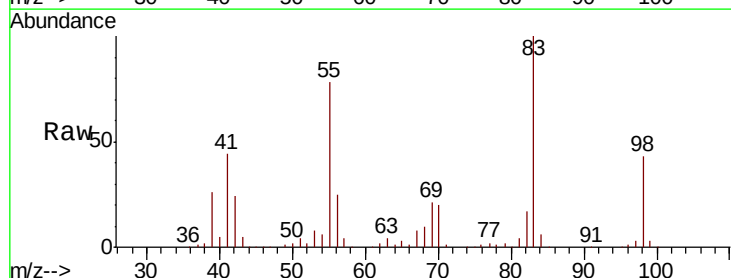
Tgt Ion: 83 Resp: 172464

Ion Ratio Lower Upper

83 100

55 78.4 62.6 93.8

98 44.1 35.1 52.7

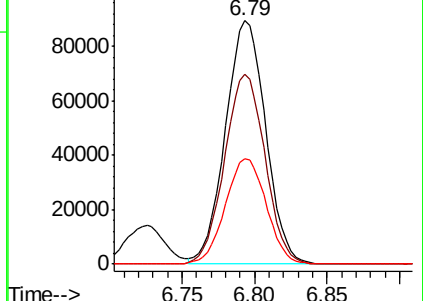


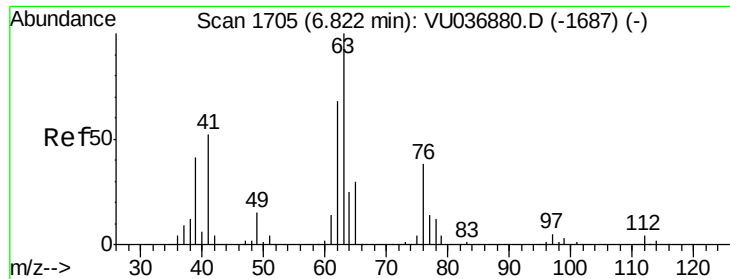
Abundance Ion 83.00 (82.70 to 83.70): VU036895.D (-1603) (-)

Ion 55.00 (54.70 to 55.70): VU036895.D (-1603) (-)

Ion 98.00 (97.70 to 98.70): VU036895.D (-1603) (-)

Time-->

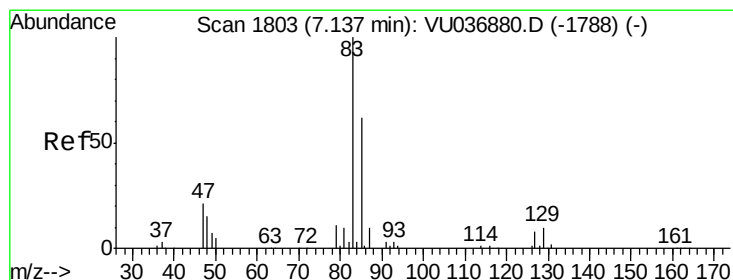
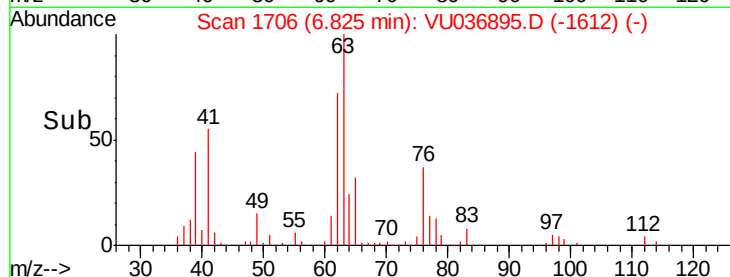
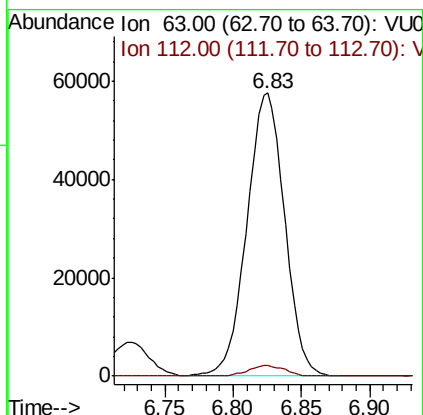
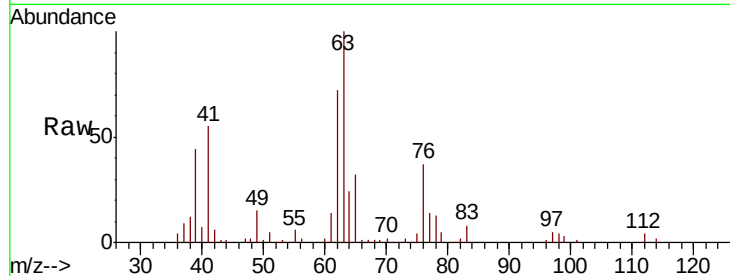




#37
 1,2-Dichloropropane
 Concen: 51.652 ug/L
 RT: 6.83 min Scan# 1706
 Delta R.T. 0.00 min
 Lab File: VU036895.D
 Acq: 24 Feb 2020 19:53

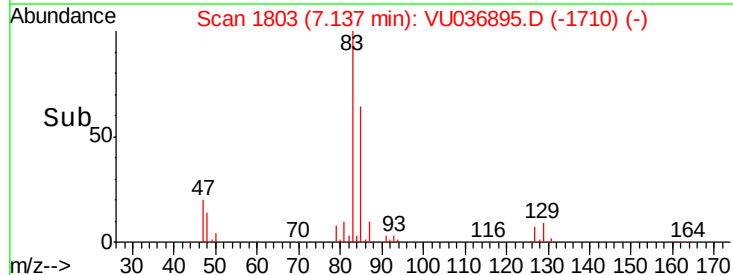
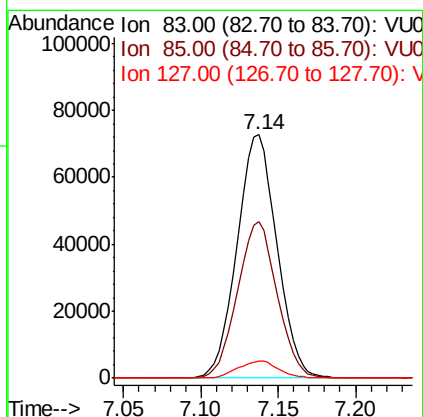
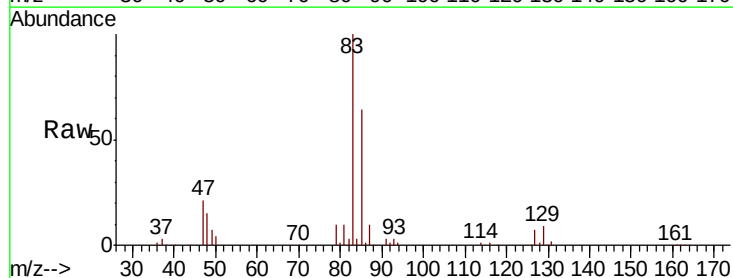
Instrument :
 MSVOA_U
 ClientSampleId :

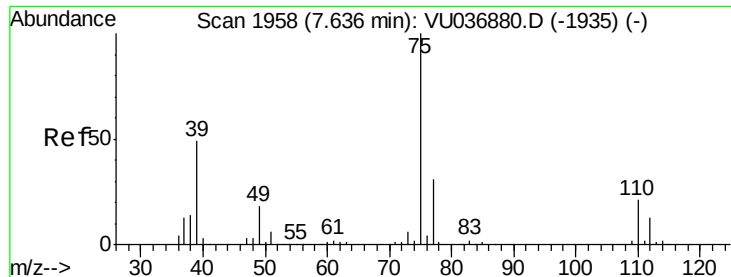
Tot Ion: 63 Resp: 110644
 Ion Ratio Lower Upper
 63 100
 112 3.7 3.0 4.6



#38
 Bromodichloromethane
 Concen: 51.622 ug/L
 RT: 7.14 min Scan# 1803
 Delta R.T. -0.00 min
 Lab File: VU036895.D
 Acq: 24 Feb 2020 19:53

Tgt Ion: 83 Resp: 130527
 Ion Ratio Lower Upper
 83 100
 85 64.2 43.6 81.0
 127 7.0 6.0 9.0

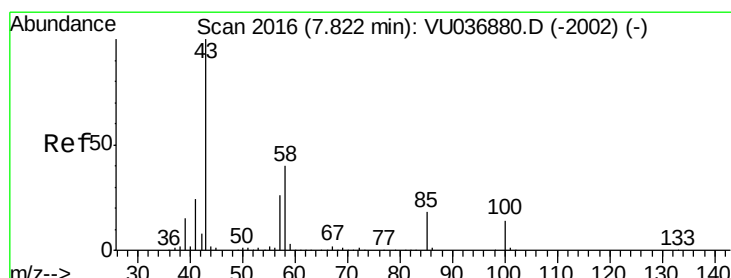
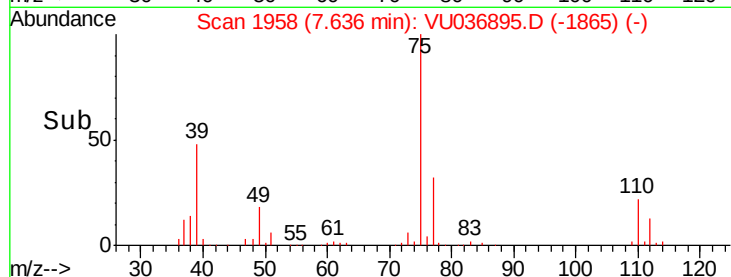
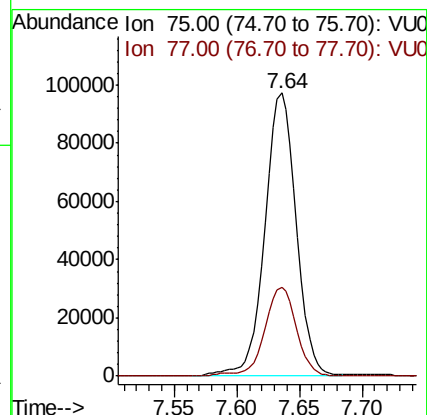
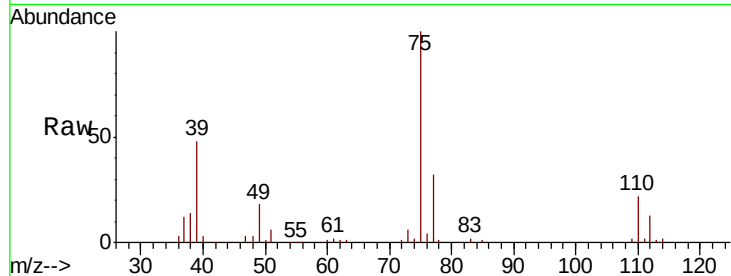




#39
 cis-1,3-Dichloropropene
 Concen: 51.398 ug/L
 RT: 7.64 min Scan# 1958
 Delta R.T. -0.00 min
 Lab File: VU036895.D
 Acq: 24 Feb 2020 19:53

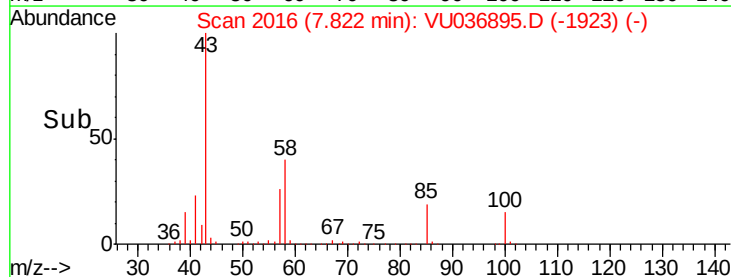
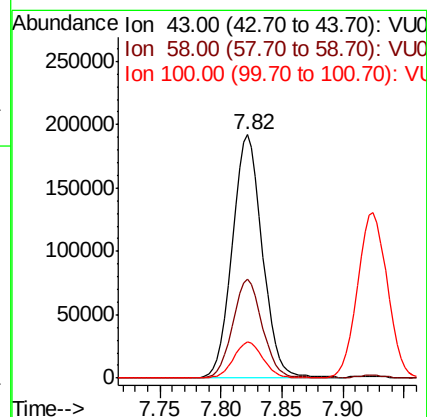
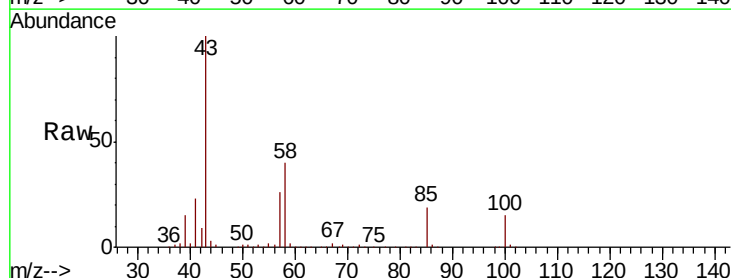
Instrument :
 MSVOA_U
 ClientSampled :

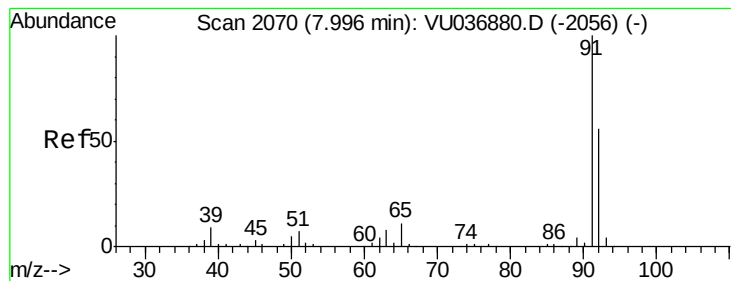
Tot Ion: 75 Resp: 169600
 Ion Ratio Lower Upper
 75 100
 77 31.6 22.0 41.0



#40
 4-Methyl-2-pentanone
 Concen: 104.829 ug/L
 RT: 7.82 min Scan# 2016
 Delta R.T. -0.00 min
 Lab File: VU036895.D
 Acq: 24 Feb 2020 19:53

Tgt Ion: 43 Resp: 330884
 Ion Ratio Lower Upper
 43 100
 58 40.1 31.8 47.6
 100 14.6 11.5 17.3





#42

Toluene

Concen: 52.300 ug/L

RT: 8.00 min Scan# 2070

Delta R.T. -0.00 min

Lab File: VU036895.D

Acq: 24 Feb 2020 19:53

Instrument :

MSVOA_U

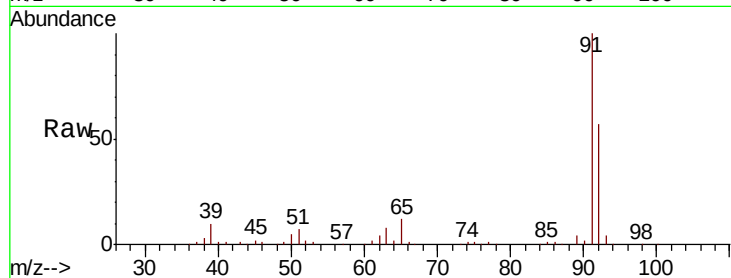
ClientSampled :

Tot Ion: 91 Resp: 443286

Ion Ratio Lower Upper

91 100

92 57.3 39.4 73.2



Abundance Ion 91.00 (90.70 to 91.70): VU036880.D (-2056) (-)

Ion 92.00 (91.70 to 92.70): VU036880.D (-2056) (-)

8.00

250000

200000

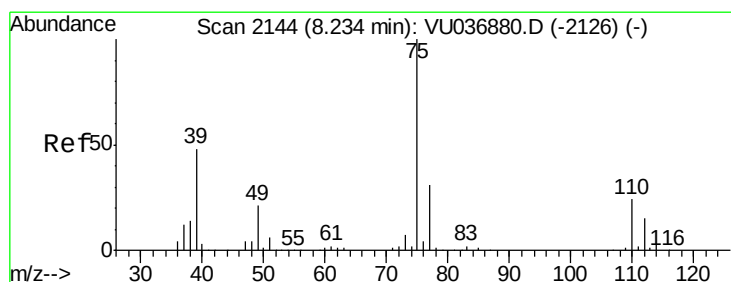
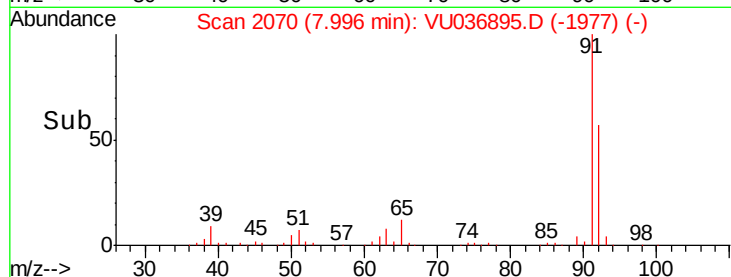
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 50.441 ug/L

RT: 8.23 min Scan# 2144

Delta R.T. -0.00 min

Lab File: VU036895.D

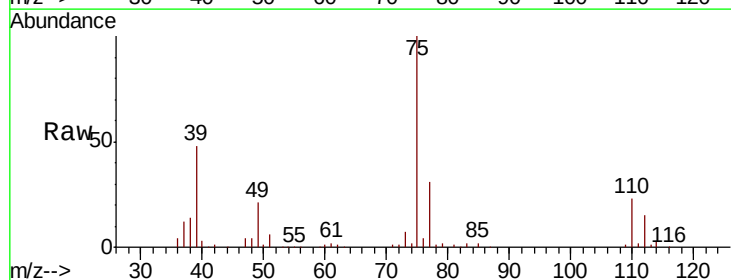
Acq: 24 Feb 2020 19:53

Tgt Ion: 75 Resp: 144384

Ion Ratio Lower Upper

75 100

77 31.1 21.6 40.2



Abundance Ion 75.00 (74.70 to 75.70): VU036880.D (-2126) (-)

Ion 77.00 (76.70 to 77.70): VU036880.D (-2126) (-)

8.23

100000

80000

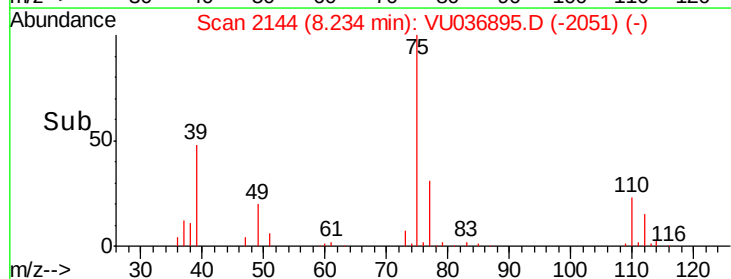
60000

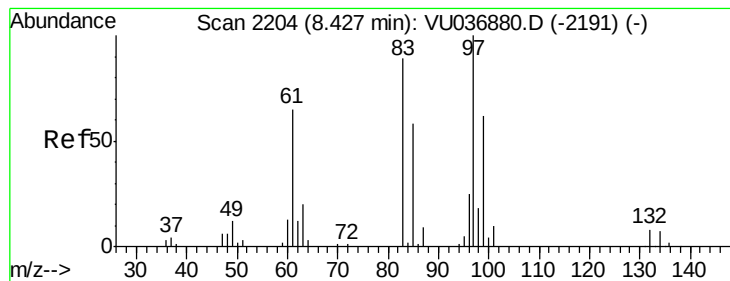
40000

20000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 51.924 ug/L

RT: 8.42 min Scan# 2203

Delta R.T. -0.00 min

Lab File: VU036895.D

Acq: 24 Feb 2020 19:53

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 97 Resp: 98908

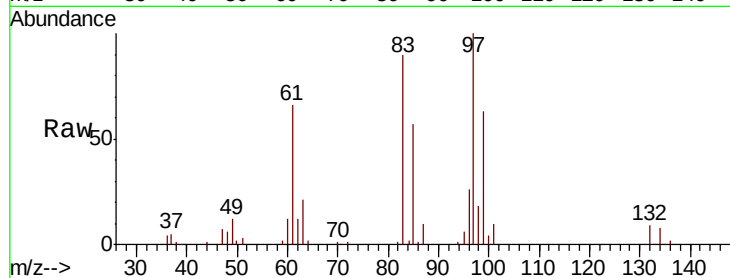
Ion Ratio Lower Upper

97 100

99 62.8 43.6 81.0

83 89.8 62.7 116.5

85 57.4 40.3 74.9



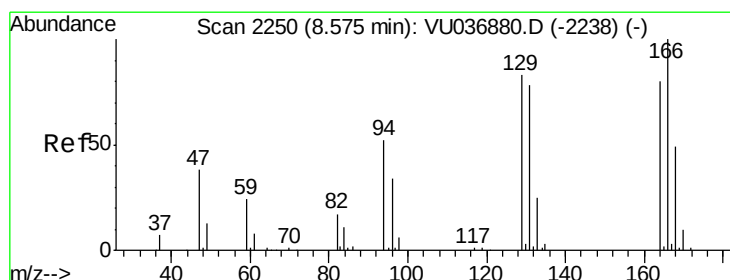
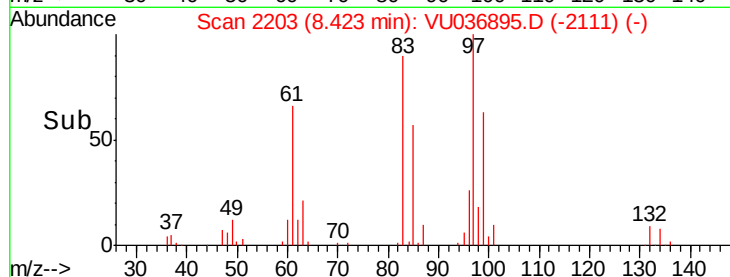
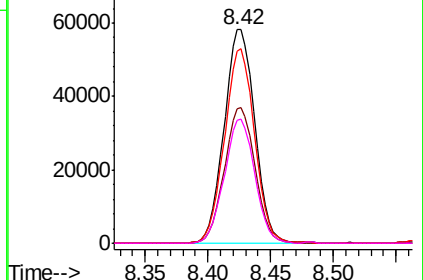
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46

Tetrachloroethene

Concen: 51.360 ug/L

RT: 8.57 min Scan# 2250

Delta R.T. -0.00 min

Lab File: VU036895.D

Acq: 24 Feb 2020 19:53

Tgt Ion:164 Resp: 66158

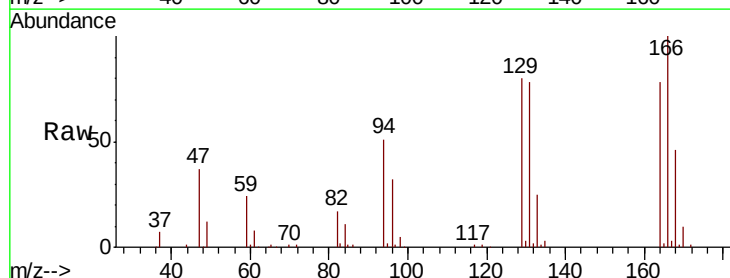
Ion Ratio Lower Upper

164 100

129 102.2 72.0 133.8

131 99.9 67.9 126.1

166 127.4 87.1 161.7



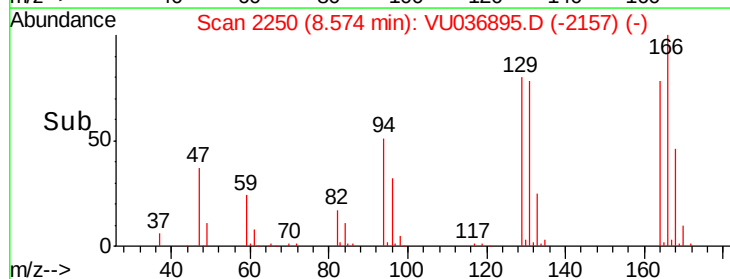
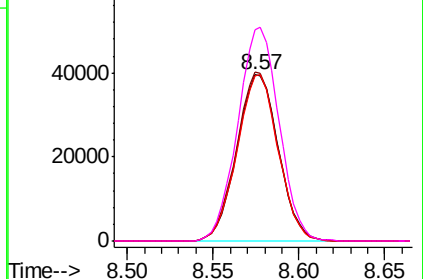
Abundance

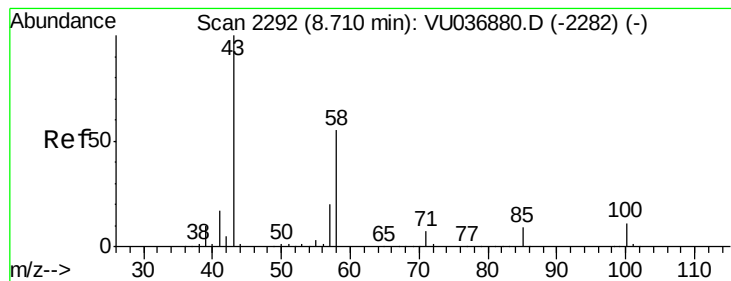
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V





#48

2-Hexanone

Concen: 103.808 ug/L

RT: 8.71 min Scan# 2292

Delta R.T. -0.00 min

Lab File: VU036895.D

Acq: 24 Feb 2020 19:53

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 261473

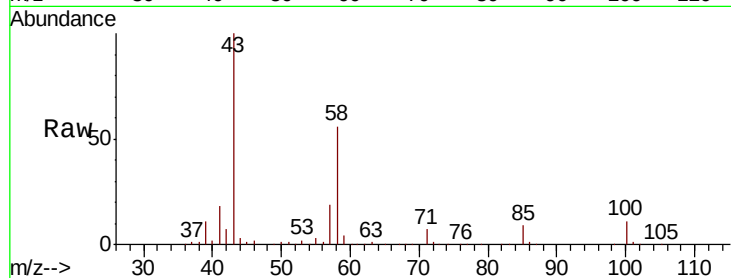
Ion Ratio Lower Upper

43 100

58 54.0 43.5 65.3

57 18.0 15.1 22.7

100 11.2 8.7 13.1

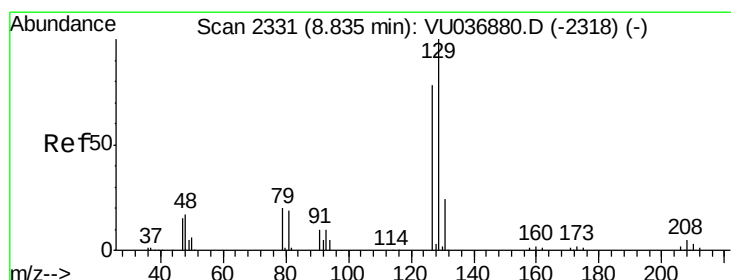
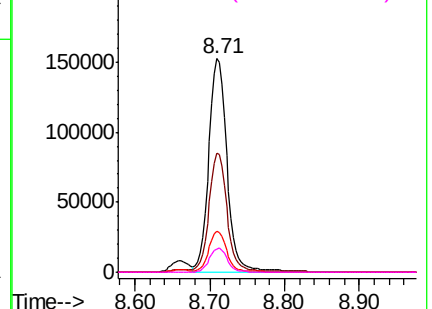
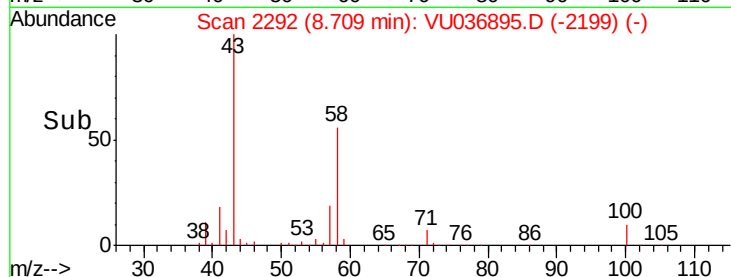


Abundance Ion 43.00 (42.70 to 43.70): VU036880.D (-2282) (-)

Ion 58.00 (57.70 to 58.70): VU036880.D (-2282) (-)

Ion 57.00 (56.70 to 57.70): VU036880.D (-2282) (-)

Ion 100.00 (99.70 to 100.70): VU036880.D (-2282) (-)



#49

Dibromochloromethane

Concen: 51.515 ug/L

RT: 8.83 min Scan# 2331

Delta R.T. -0.00 min

Lab File: VU036895.D

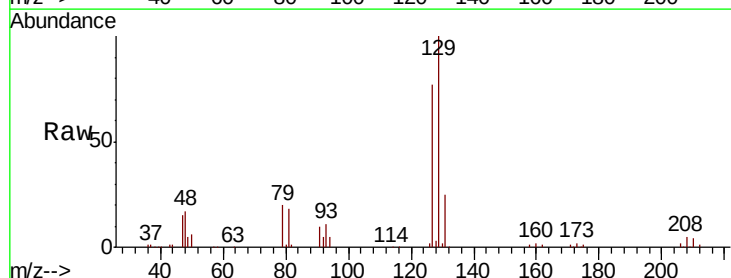
Acq: 24 Feb 2020 19:53

Tgt Ion: 129 Resp: 93141

Ion Ratio Lower Upper

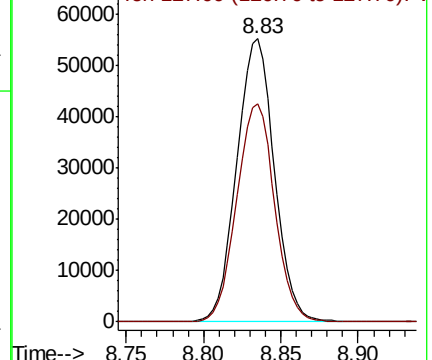
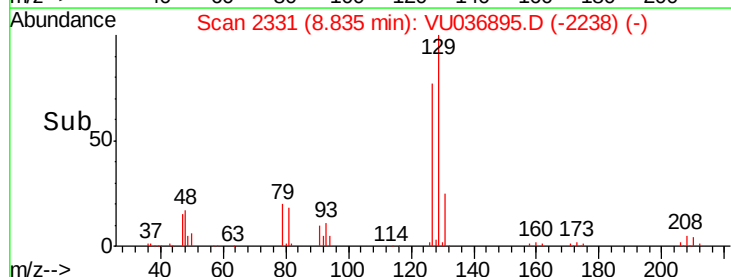
129 100

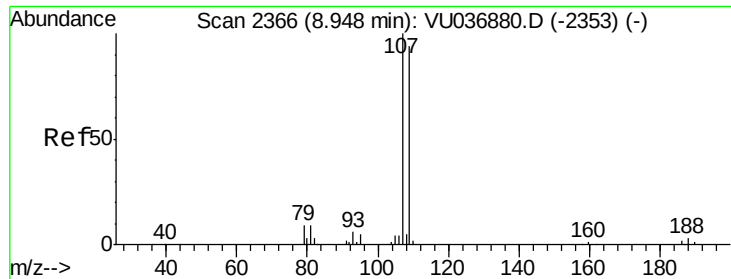
127 76.9 54.3 100.8



Abundance Ion 129.00 (128.70 to 129.70): VU036880.D (-2318) (-)

Ion 127.00 (126.70 to 127.70): VU036880.D (-2318) (-)

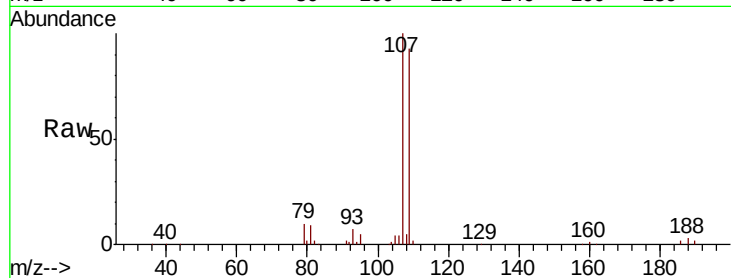




#50
1,2-Dibromoethane
Concen: 52.208 ug/L
RT: 8.95 min Scan# 2366
Delta R.T. -0.00 min
Lab File: VU036895.D
Acq: 24 Feb 2020 19:53

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.4	65.9	122.5
188	2.6	2.2	3.2

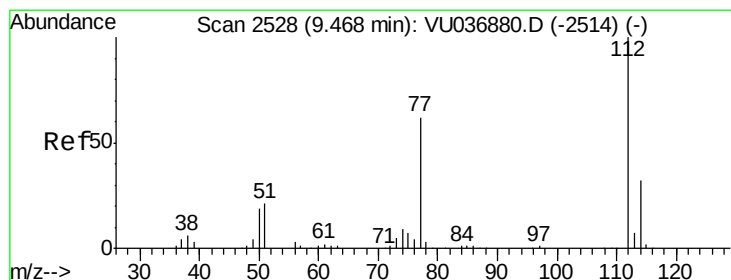
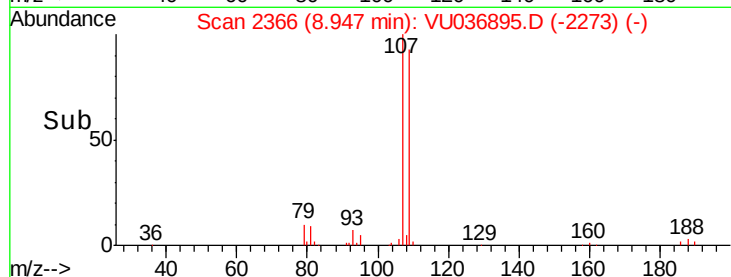
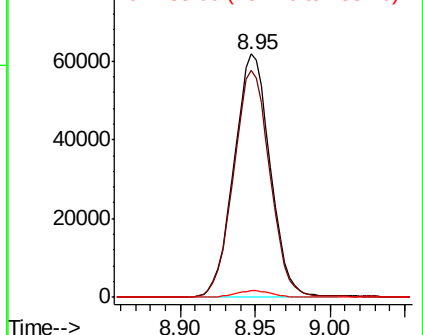


Abundance

Ion 107.00 (106.70 to 107.70): V

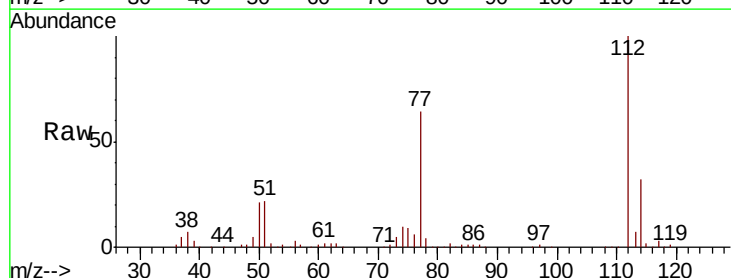
Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51
Chlorobenzene
Concen: 51.182 ug/L
RT: 9.47 min Scan# 2528
Delta R.T. -0.00 min
Lab File: VU036895.D
Acq: 24 Feb 2020 19:53

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.2	22.3	41.5
77	63.7	50.1	75.1

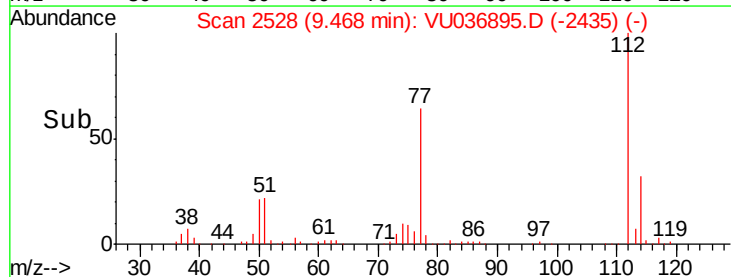
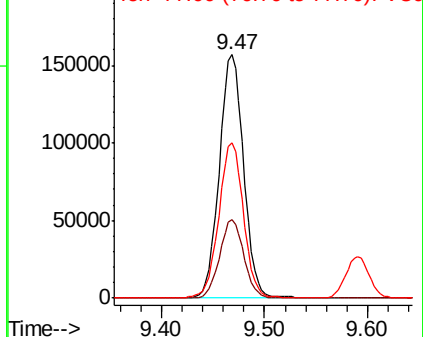


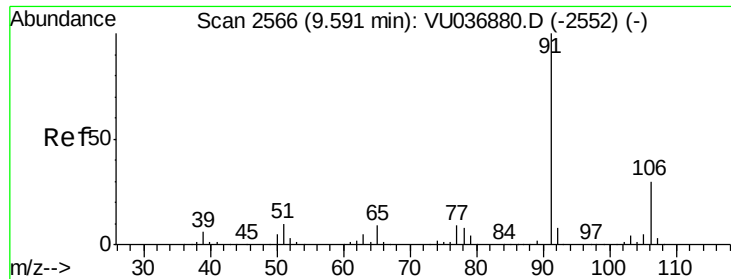
Abundance

Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU





#52

Ethylbenzene

Concen: 51.541 ug/L

RT: 9.59 min Scan# 2566

Delta R.T. -0.00 min

Lab File: VU036895.D

Acq: 24 Feb 2020 19:53

Instrument :

MSVOA_U

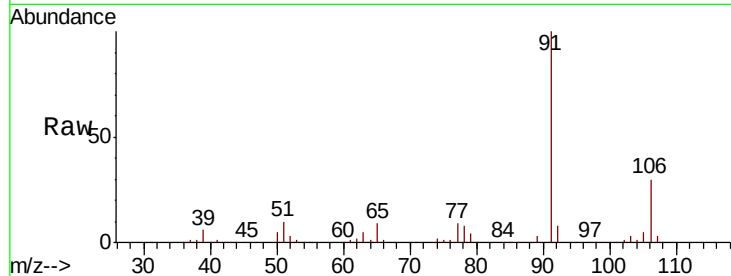
ClientSampled :

Tot Ion: 91 Resp: 473576

Ion Ratio Lower Upper

91 100

106 30.0 21.1 39.1



Abundance Ion 91.00 (90.70 to 91.70): VU036880.D (-2552) (-)

Ion 106.00 (105.70 to 106.70): VU036880.D (-2552) (-)

9.59

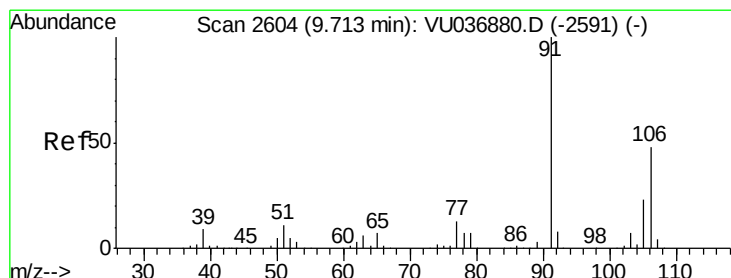
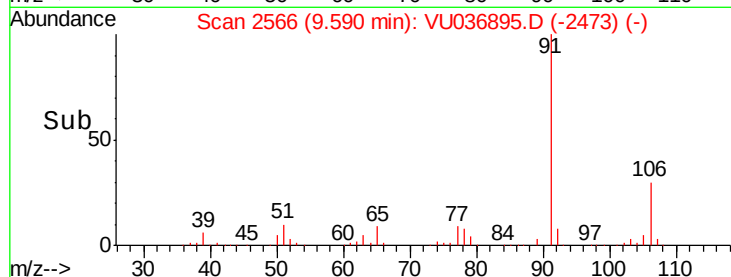
300000

200000

100000

0

Time--> 9.50 9.55 9.60 9.65



#53

m,p-Xylene

Concen: 52.095 ug/L

RT: 9.71 min Scan# 2604

Delta R.T. -0.00 min

Lab File: VU036895.D

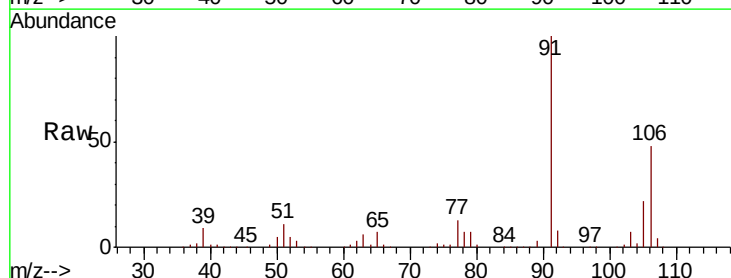
Acq: 24 Feb 2020 19:53

Tgt Ion: 106 Resp: 175581

Ion Ratio Lower Upper

106 100

91 206.8 145.3 269.9



Abundance Ion 106.00 (105.70 to 106.70): VU036880.D (-2591) (-)

Ion 91.00 (90.70 to 91.70): VU036880.D (-2591) (-)

9.71

250000

200000

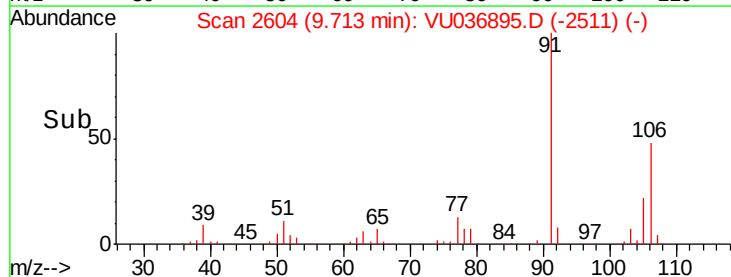
150000

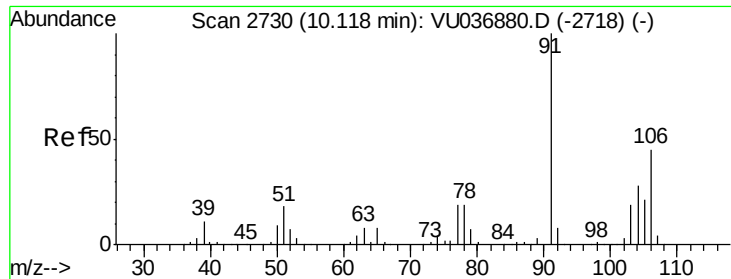
100000

50000

0

Time--> 9.65 9.70 9.75 9.80





#54

o-xylene

Concen: 51.595 ug/L

RT: 10.12 min Scan# 2730

Delta R.T. -0.00 min

Lab File: VU036895.D

Acq: 24 Feb 2020 19:53

Instrument :

MSVOA_U

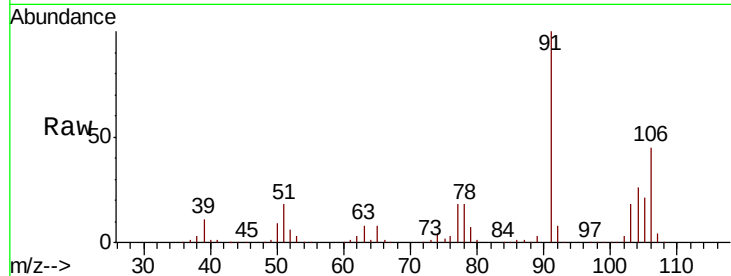
ClientSampleId :

Tot Ion:106 Resp: 173441

Ion Ratio Lower Upper

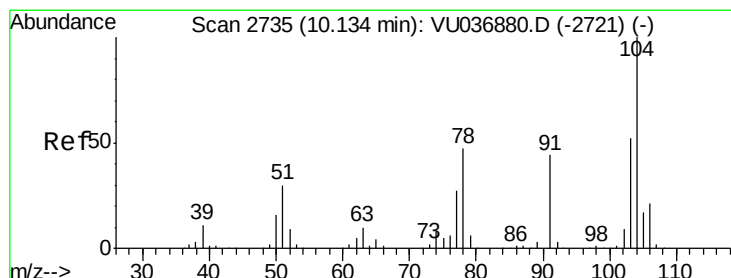
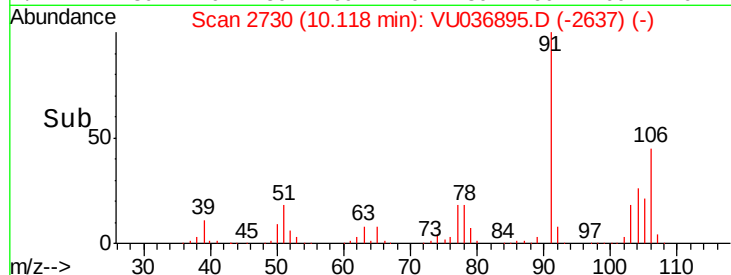
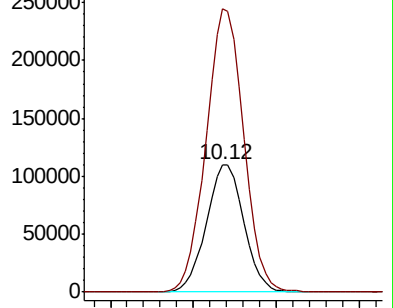
106 100

91 221.4 154.2 286.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 52.298 ug/L

RT: 10.13 min Scan# 2735

Delta R.T. -0.00 min

Lab File: VU036895.D

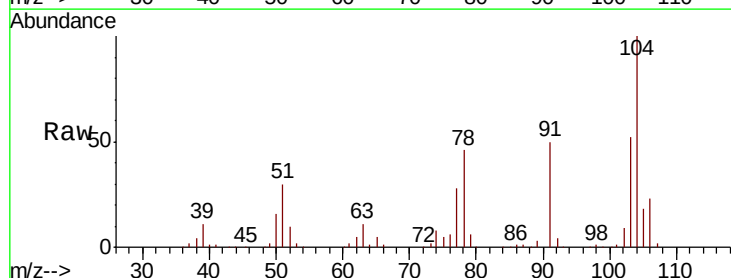
Acq: 24 Feb 2020 19:53

Tgt Ion:104 Resp: 287388

Ion Ratio Lower Upper

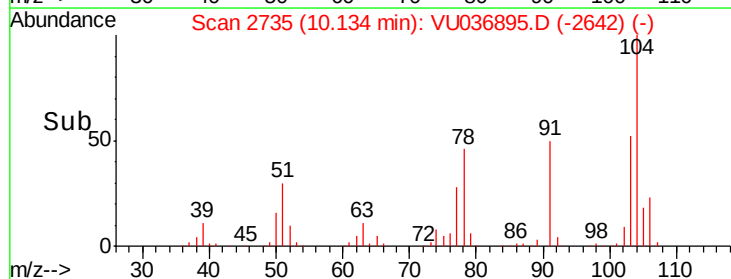
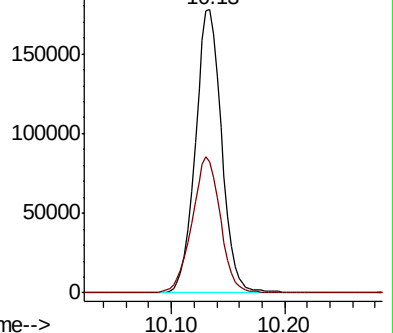
104 100

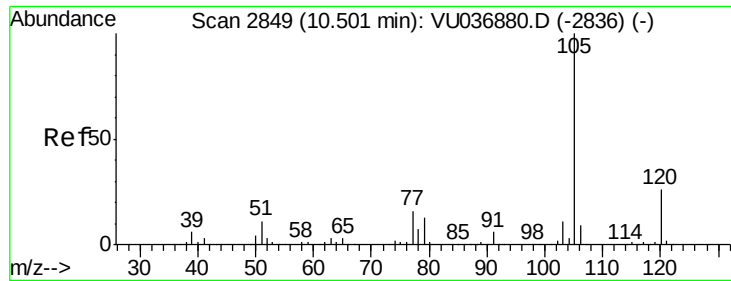
78 46.4 33.0 61.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 52.037 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. -0.00 min

Lab File: VU036895.D

Acq: 24 Feb 2020 19:53

Instrument :

MSVOA_U

ClientSampleId :

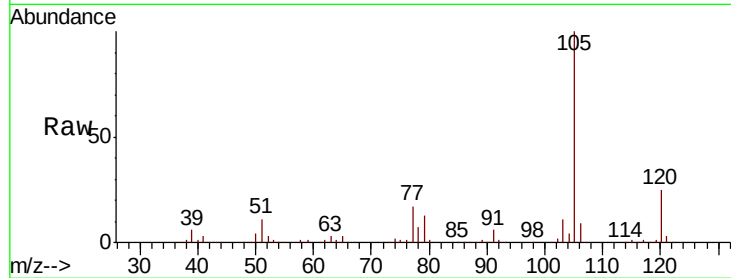
Tot Ion:105 Resp: 449284

Ion Ratio Lower Upper

105 100

120 25.4 20.5 30.7

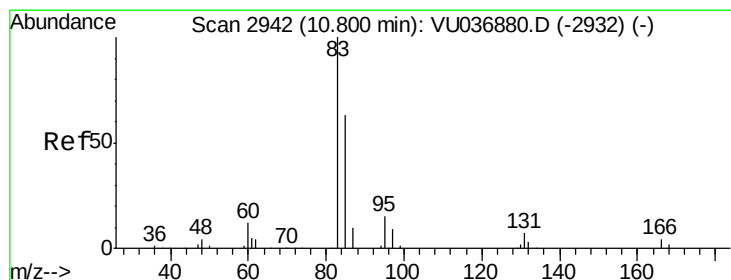
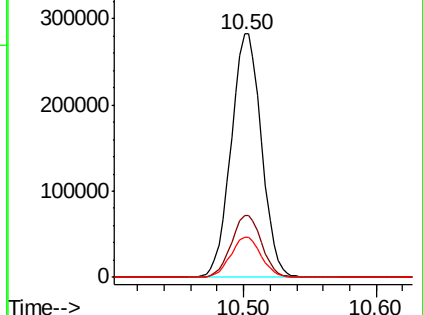
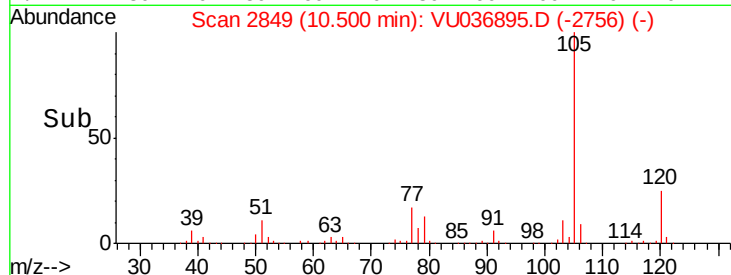
77 16.4 13.1 19.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 51.493 ug/L

RT: 10.80 min Scan# 2942

Delta R.T. -0.00 min

Lab File: VU036895.D

Acq: 24 Feb 2020 19:53

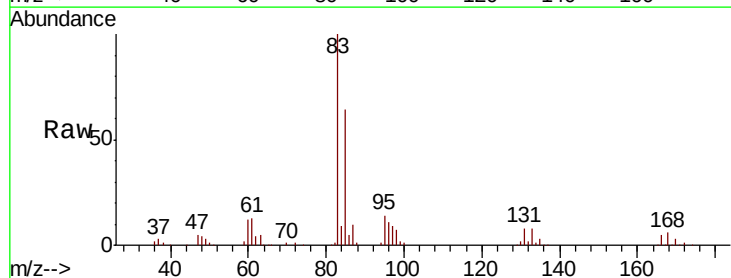
Tgt Ion: 83 Resp: 175360

Ion Ratio Lower Upper

83 100

85 63.7 45.5 84.5

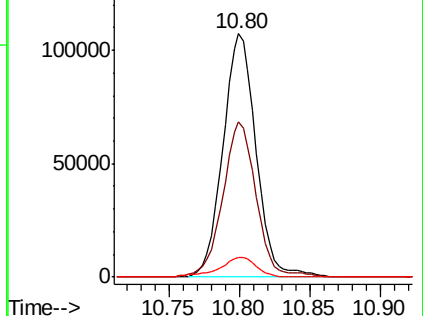
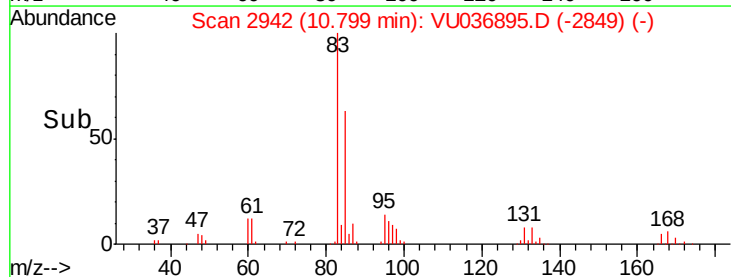
131 8.1 6.8 10.2

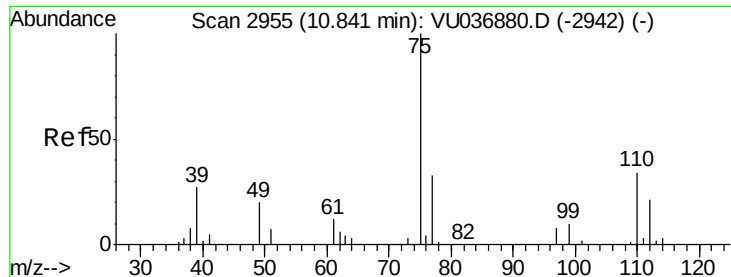


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 50.821 ug/L

RT: 10.84 min Scan# 2955

Delta R.T. -0.00 min

Lab File: VU036895.D

Acq: 24 Feb 2020 19:53

Instrument :

MSVOA_U

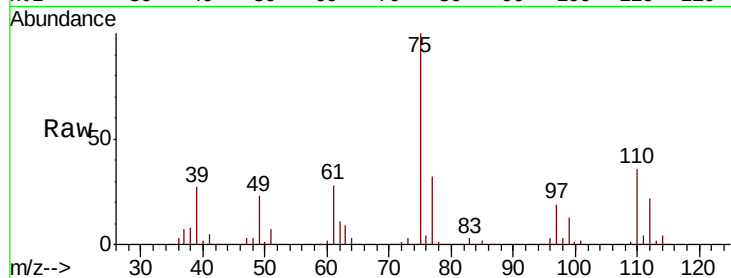
ClientSampleId :

Tot Ion: 75 Resp: 140046

Ion Ratio Lower Upper

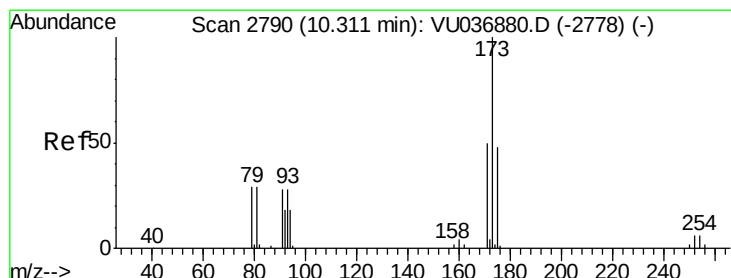
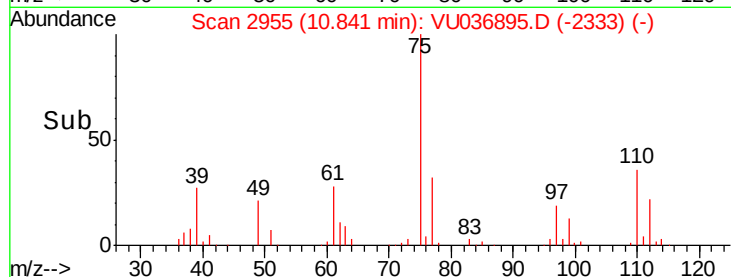
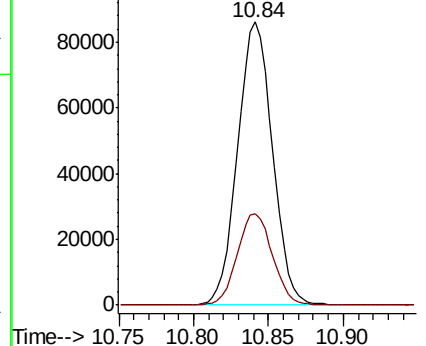
75 100

77 32.6 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VU036880.D (-2942) (-)

Ion 77.00 (76.70 to 77.70): VU036880.D (-2942) (-)



#61

Bromoform

Concen: 49.781 ug/L

RT: 10.31 min Scan# 2790

Delta R.T. -0.00 min

Lab File: VU036895.D

Acq: 24 Feb 2020 19:53

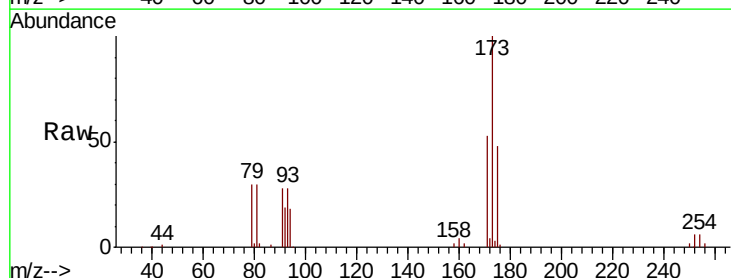
Tgt Ion: 173 Resp: 62546

Ion Ratio Lower Upper

173 100

175 48.2 39.0 58.6

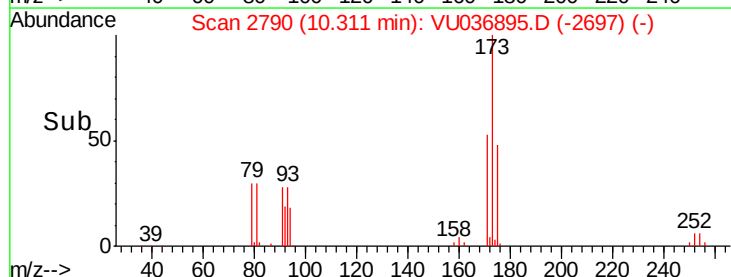
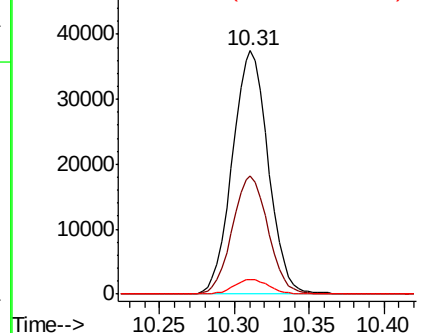
254 5.9 4.6 6.8

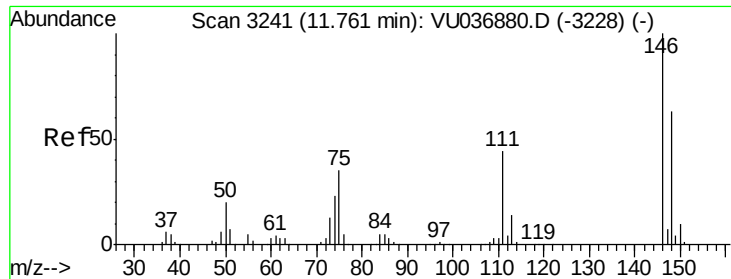


Abundance Ion 173.00 (172.70 to 173.70): VU036880.D (-2778) (-)

Ion 175.00 (174.70 to 175.70): VU036880.D (-2778) (-)

Ion 254.00 (253.70 to 254.70): VU036880.D (-2778) (-)





#62

1,3-Dichlorobenzene

Concen: 50.041 ug/L

RT: 11.76 min Scan# 3241

Delta R.T. -0.00 min

Lab File: VU036895.D

Acq: 24 Feb 2020 19:53

Instrument :

MSVOA_U

ClientSampled :

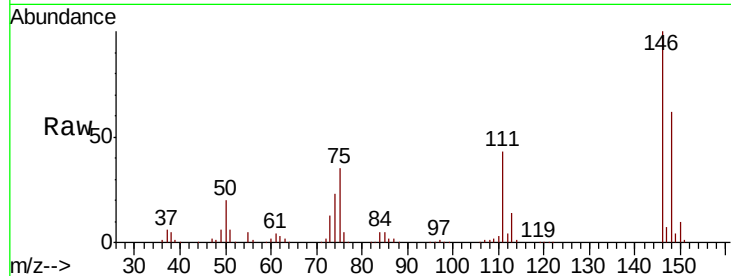
Tot Ion:146 Resp: 180403

Ion Ratio Lower Upper

146 100

111 42.8 30.7 56.9

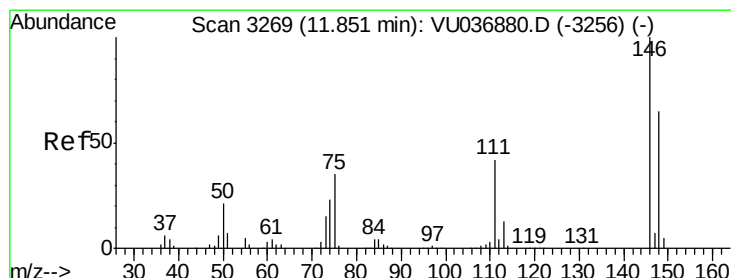
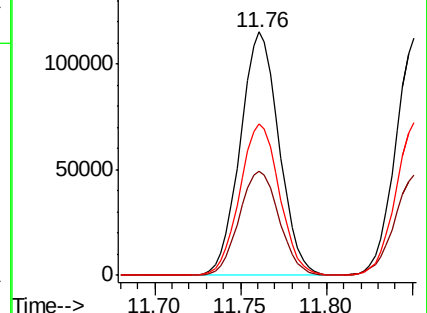
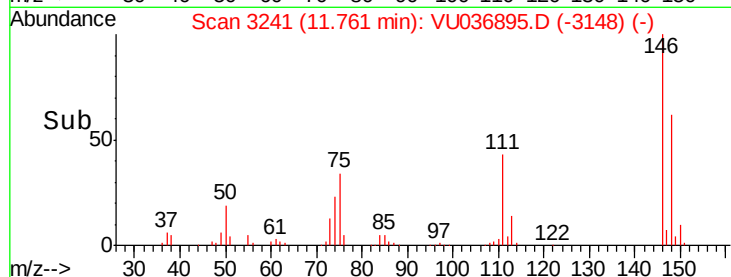
148 62.4 44.2 82.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 50.369 ug/L

RT: 11.85 min Scan# 3269

Delta R.T. -0.00 min

Lab File: VU036895.D

Acq: 24 Feb 2020 19:53

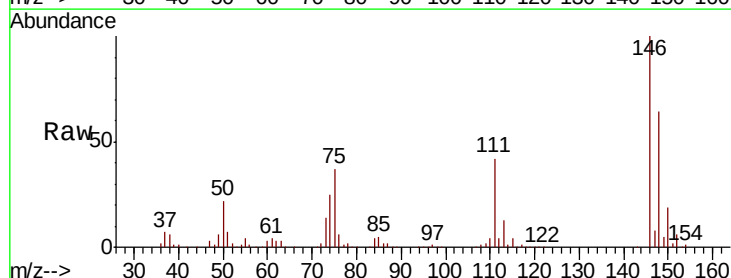
Tgt Ion:146 Resp: 179402

Ion Ratio Lower Upper

146 100

111 42.1 29.8 55.4

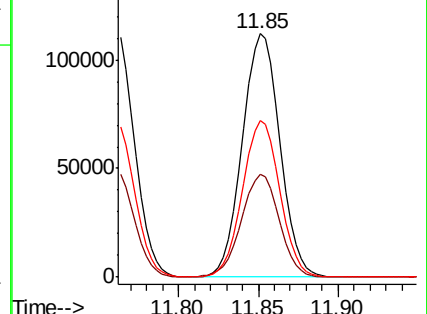
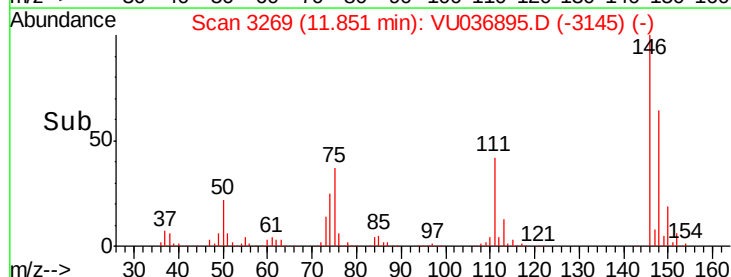
148 64.3 45.1 83.9

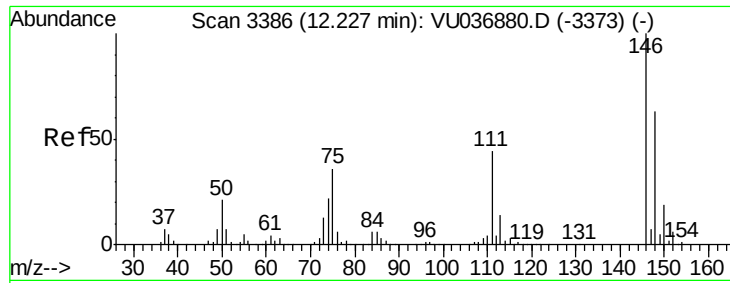


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 50.849 ug/L

RT: 12.23 min Scan# 3386

Delta R.T. -0.00 min

Lab File: VU036895.D

Acq: 24 Feb 2020 19:53

Instrument :

MSVOA_U

ClientSampled :

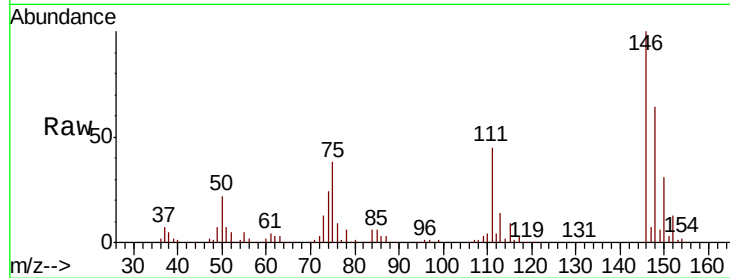
Tot Ion:146 Resp: 183033

Ion Ratio Lower Upper

146 100

111 45.0 35.4 53.0

148 64.5 50.5 75.7

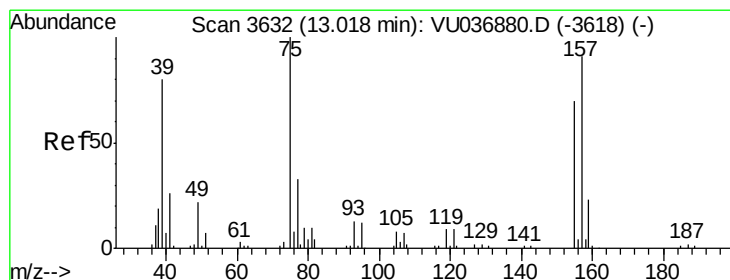
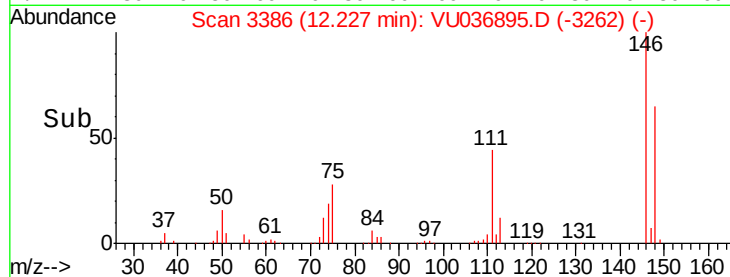
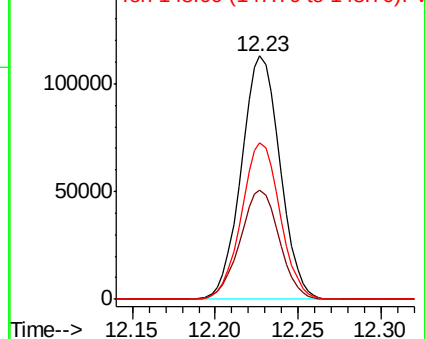


Abundance

Ion 146.00 (145.70 to 146.70): 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: 50.724 ug/L

RT: 13.02 min Scan# 3632

Delta R.T. -0.00 min

Lab File: VU036895.D

Acq: 24 Feb 2020 19:53

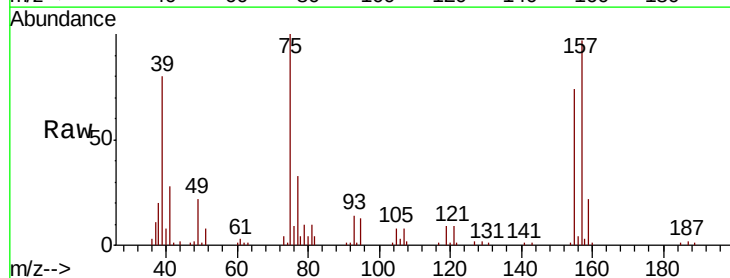
Tgt Ion: 75 Resp: 36223

Ion Ratio Lower Upper

75 100

155 74.1 55.7 83.5

157 97.3 73.0 109.6

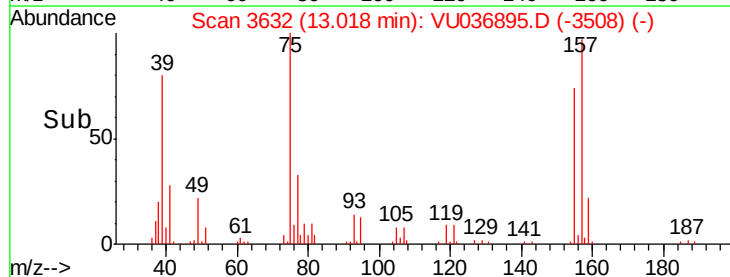
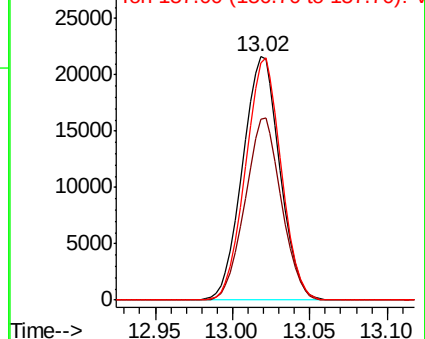


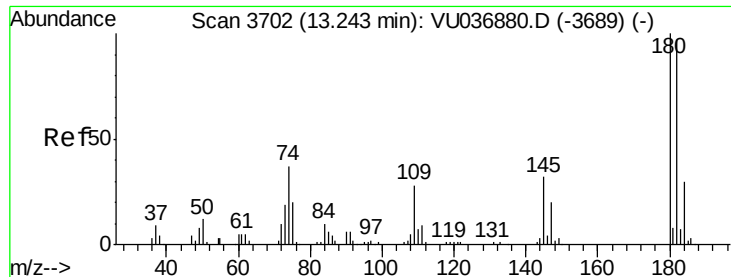
Abundance

Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

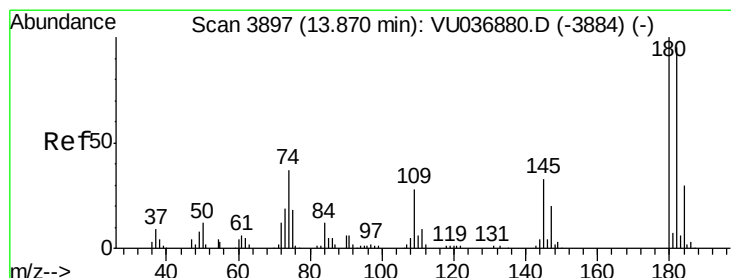
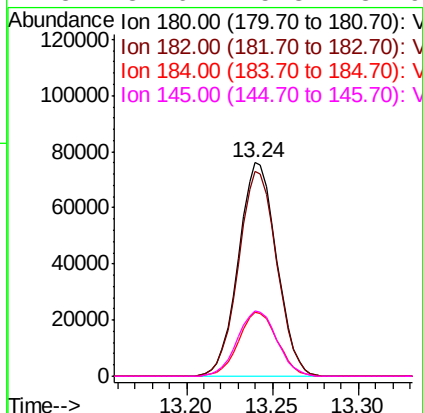
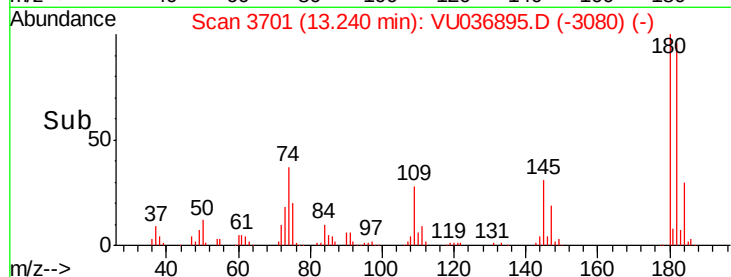
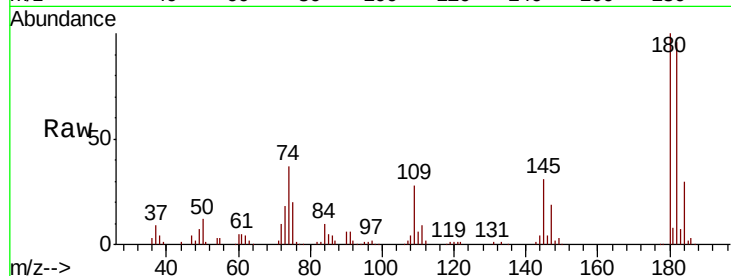




#67
 1,3,5-Trichlorobenzene
 Concen: 51.555 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. -0.00 min
 Lab File: VU036895.D
 Acq: 24 Feb 2020 19:53

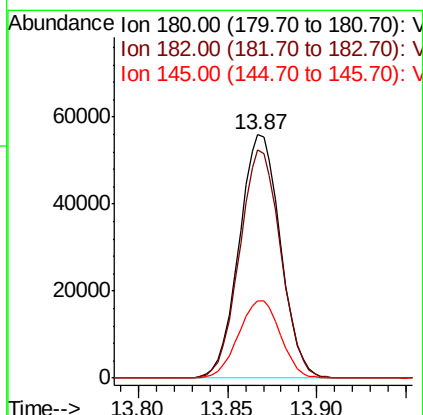
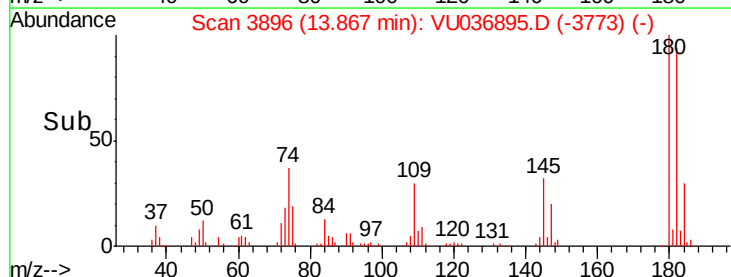
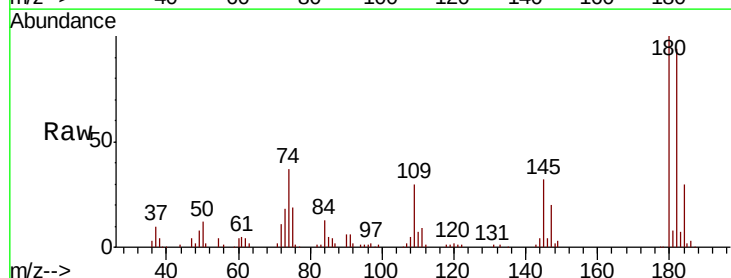
Instrument :
 MSVOA_U
 ClientSampleId :

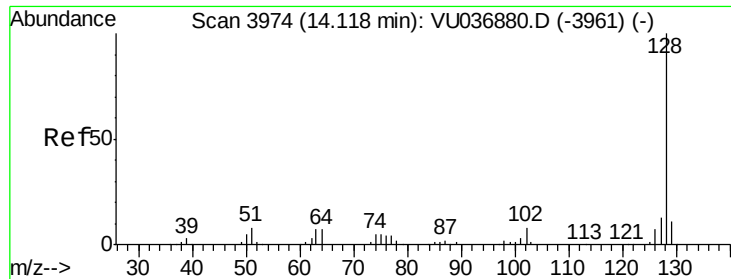
Tot Ion:180 Resp: 117973
 Ion Ratio Lower Upper
 180 100
 182 96.0 76.9 115.3
 184 30.2 24.2 36.2
 145 31.6 25.3 37.9



#68
 1,2,4-trichlorobenzene
 Concen: 52.511 ug/L
 RT: 13.87 min Scan# 3896
 Delta R.T. -0.00 min
 Lab File: VU036895.D
 Acq: 24 Feb 2020 19:53

Tgt Ion:180 Resp: 90026
 Ion Ratio Lower Upper
 180 100
 182 93.5 75.3 112.9
 145 32.4 26.2 39.4





#69

Naphthalene

Concen: 49.147 ug/L

RT: 14.12 min Scan# 3974

Delta R.T. -0.00 min

Lab File: VU036895.D

Acq: 24 Feb 2020 19:53

Instrument :

MSVOA_U

ClientSampled :

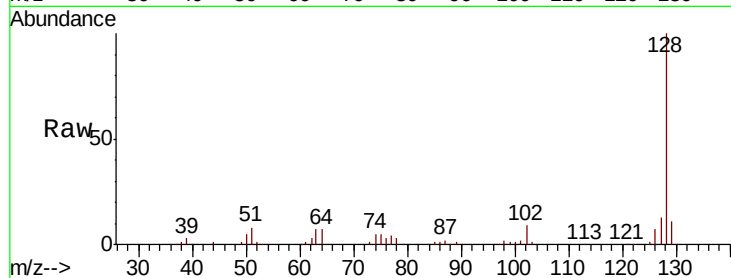
Tot Ion:128 Resp: 148740

Ion Ratio Lower Upper

128 100

127 13.1 11.0 16.4

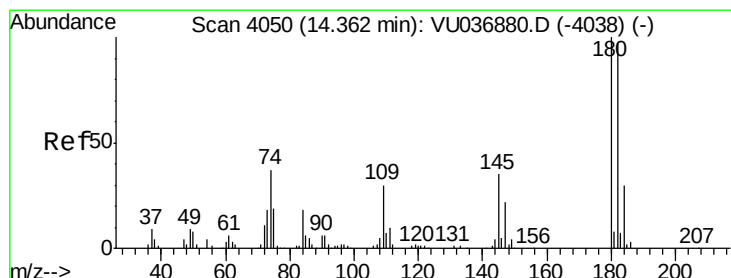
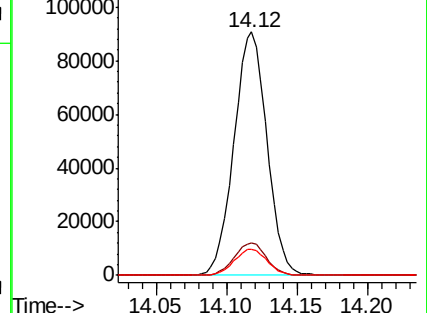
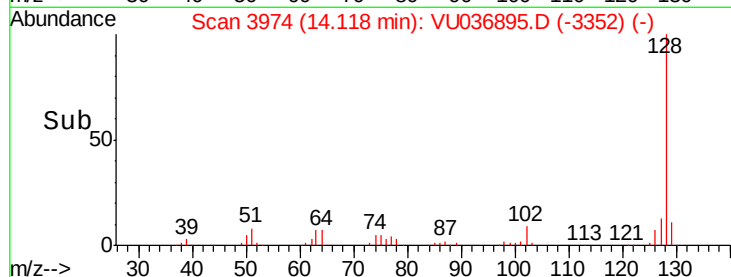
129 10.7 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 53.257 ug/L

RT: 14.36 min Scan# 4050

Delta R.T. -0.00 min

Lab File: VU036895.D

Acq: 24 Feb 2020 19:53

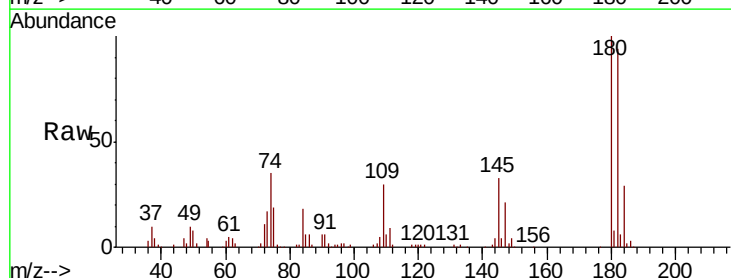
Tgt Ion:180 Resp: 91242

Ion Ratio Lower Upper

180 100

182 94.1 77.0 115.6

145 33.2 28.1 42.1



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

