

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051920\
 Data File : VU038238.D
 Acq On : 19 May 2020 16:35
 Operator : JC/MD
 Sample : VSTDCCC005EC
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: May 20 01:28:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed May 20 01:25:15 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	310932	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	300086	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	149170	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	151059	5.31	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	106.20%
7) Chloroethane-d5	1.93	69	128357	5.22	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	104.40%
11) 1,1-Dichloroethene-d2	2.59	63	236406	4.97	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	99.40%
20) 2-Butanone-d5	4.68	46	463732	66.09	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	132.18%#
24) Chloroform-d	5.10	84	243955	5.65	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	113.00%
26) 1,2-Dichloroethane-d4	5.74	65	142492	5.76	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	115.20%
32) Benzene-d6	5.76	84	497059	5.53	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	110.60%
36) 1,2-Dichloropropane-d6	6.72	67	167840	5.78	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	115.60%
41) Toluene-d8	7.92	98	445939	5.52	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	110.40%
43) trans-1,3-Dichloropropene-	8.20	79	66346	5.71	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	114.20%
46) 2-Hexanone-d5	8.66	63	337540	61.48	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	122.96%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	138425	6.04	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	120.80%#
64) 1,2-Dichlorobenzene-d4	12.20	152	160437	5.53	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	110.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	119072	4.187	ug/L 100
3) Chloromethane	1.53	50	159979	4.668	ug/L 99
5) Vinyl chloride	1.62	62	161312	4.804	ug/L 98
6) Bromomethane	1.87	94	82615	4.321	ug/L 96
8) Chloroethane	1.95	64	97646	4.727	ug/L 98
9) Trichlorofluoromethane	2.16	101	161968	4.717	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	98744	4.639	ug/L 98
12) 1,1-Dichloroethene	2.60	96	101056	4.683	ug/L 96
13) Acetone	2.68	43	264823	60.153	ug/L 99
14) Carbon disulfide	2.82	76	328133	4.263	ug/L 98
15) Methyl Acetate	2.99	43	65768	5.340	ug/L 97
16) Methylene chloride	3.08	84	126781	5.041	ug/L 99
17) Methyl tert-butyl Ether	3.40	73	306414	5.111	ug/L 99
18) trans-1,2-Dichloroethene	3.39	96	113812	4.831	ug/L 97
19) 1,1-Dichloroethane	3.91	63	235253	5.113	ug/L 99
21) 2-Butanone	4.76	43	466084	59.980	ug/L 100
22) cis-1,2-Dichloroethene	4.71	96	129989	5.120	ug/L 98

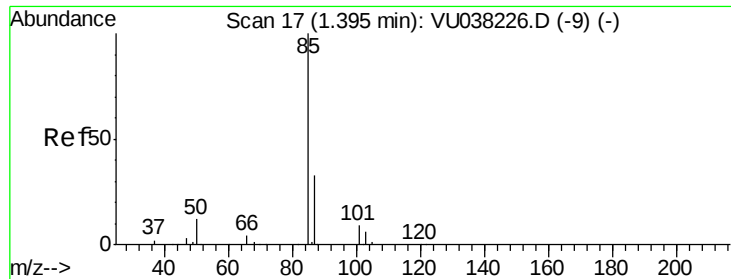
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051920\
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.01	128	57670	5.279	ug/L	98
25) Chloroform	5.12	83	223721	5.213	ug/L	99
27) 1,2-Dichloroethane	5.83	62	159656	5.270	ug/L	99
29) 1,1,1-Trichloroethane	5.35	97	173876	5.057	ug/L	98
30) Cyclohexane	5.42	56	177967	4.384	ug/L	99
31) Carbon tetrachloride	5.56	117	136769	4.949	ug/L	100
33) Benzene	5.81	78	500984	5.213	ug/L	100
34) Trichloroethene	6.57	95	120382	5.009	ug/L	99
35) Methylcyclohexane	6.79	83	168007	4.315	ug/L	98
37) 1,2-Dichloropropane	6.82	63	133276	5.106	ug/L	100
38) Bromodichloromethane	7.13	83	159777	5.295	ug/L	98
39) cis-1,3-Dichloropropene	7.63	75	186250	4.986	ug/L	98
40) 4-Methyl-2-pentanone	7.82	43	1030266	56.950	ug/L	99
42) Toluene	7.99	91	508419	5.012	ug/L	100
44) trans-1,3-Dichloropropene	8.23	75	166368	5.237	ug/L	98
45) 1,1,2-Trichloroethane	8.42	97	98474	5.433	ug/L	98
47) Tetrachloroethene	8.57	164	80058	4.762	ug/L	99
48) 2-Hexanone	8.71	43	767158	57.905	ug/L	100
49) Dibromochloromethane	8.83	129	103024	5.477	ug/L	99
50) 1,2-Dibromoethane	8.94	107	91661	5.449	ug/L	97
51) Chlorobenzene	9.47	112	324844	5.160	ug/L	98
52) Ethylbenzene	9.59	91	534346	4.863	ug/L	100
53) m,p-Xylene	9.71	106	209201	4.965	ug/L	96
54) o-Xylene	10.11	106	203078	4.985	ug/L	100
55) Styrene	10.13	104	349521	5.111	ug/L	100
56) Isopropylbenzene	10.50	105	508041	4.855	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.80	83	126909	5.515	ug/L	95
59) 1,2,3-Trichloropropane	10.84	75	96507	5.509	ug/L	99
61) Bromoform	10.31	173	53947	5.350	ug/L	99
62) 1,3-Dichlorobenzene	11.76	146	240654	4.958	ug/L	100
63) 1,4-Dichlorobenzene	11.85	146	244678	4.975	ug/L	99
65) 1,2-Dichlorobenzene	12.22	146	237711	5.091	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.01	75	20400	5.345	ug/L	96
67) 1,3,5-Trichlorobenzene	13.24	180	171084	4.858	ug/L	99
68) 1,2,4-trichlorobenzene	13.87	180	161495	5.056	ug/L	99
69) Naphthalene	14.11	128	348451	5.181	ug/L	100
70) 1,2,3-Trichlorobenzene	14.36	180	152388	5.133	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 4.187 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU038238.D

Acq: 19 May 2020 16:35

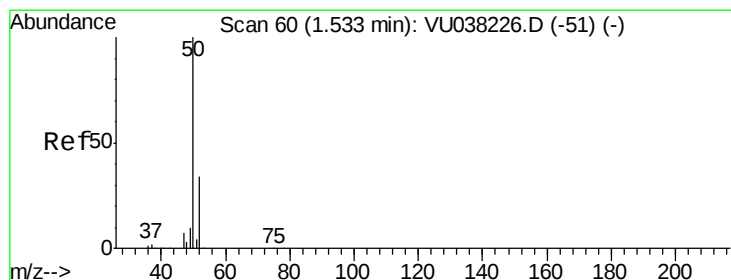
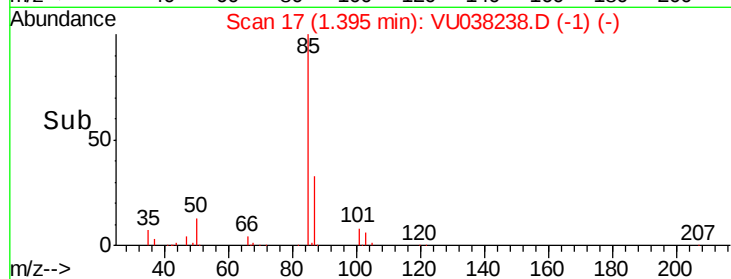
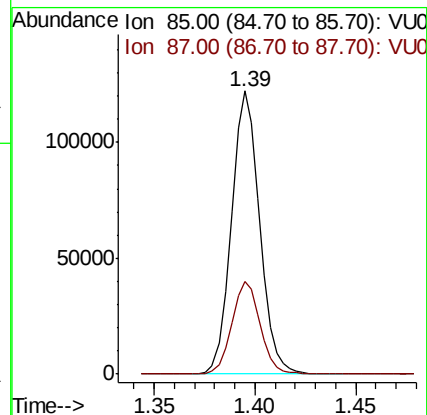
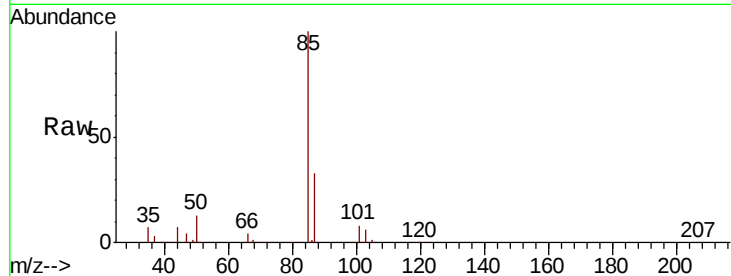
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 119072

Ion Ratio Lower Upper

85 100

87 32.8 26.2 39.4



#3

Chloromethane

Concen: 4.668 ug/L

RT: 1.53 min Scan# 60

Delta R.T. 0.00 min

Lab File: VU038238.D

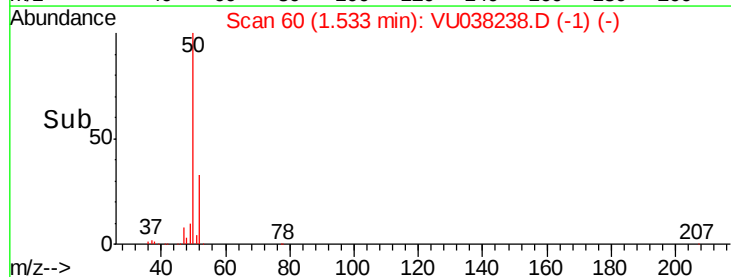
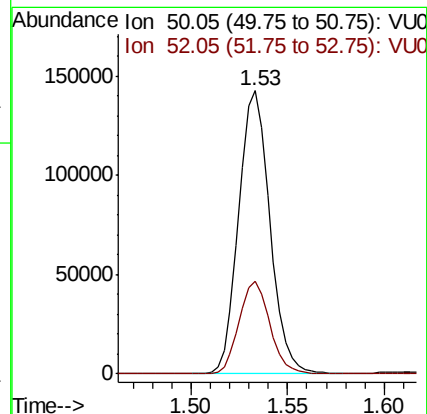
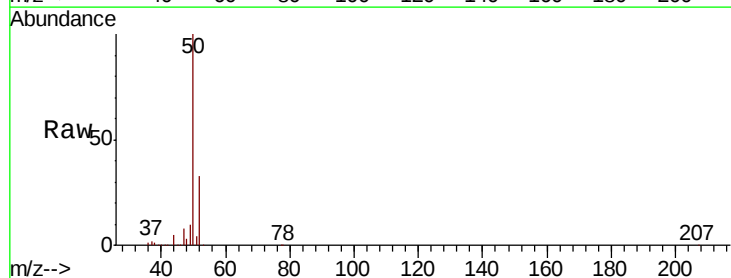
Acq: 19 May 2020 16:35

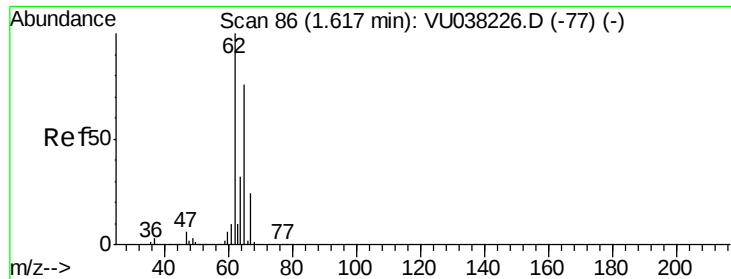
Tgt Ion: 50 Resp: 159979

Ion Ratio Lower Upper

50 100

52 32.5 22.5 41.7





#5

Vinyl chloride

Concen: 4.804 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU038238.D

Acq: 19 May 2020 16:35

Instrument :

MSVOA_U

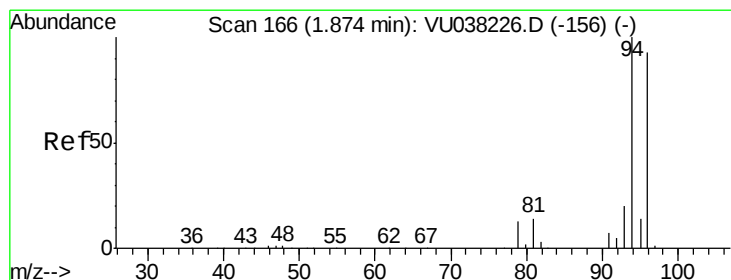
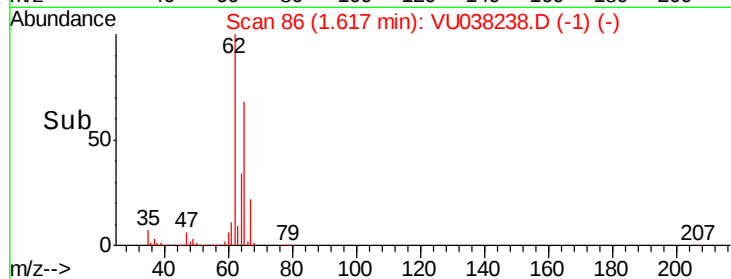
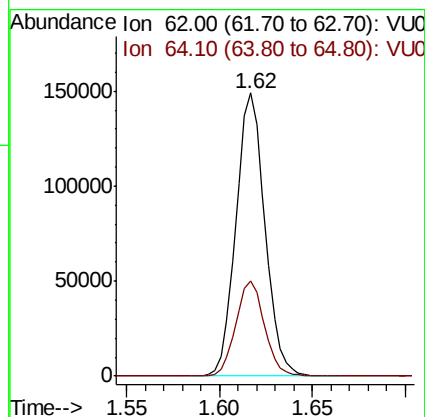
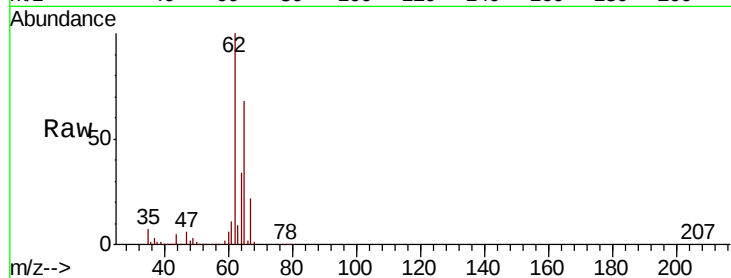
ClientSampleId :

Tot Ion: 62 Resp: 161312

Ion Ratio Lower Upper

62 100

64 33.5 22.8 42.4



#6

Bromomethane

Concen: 4.321 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU038238.D

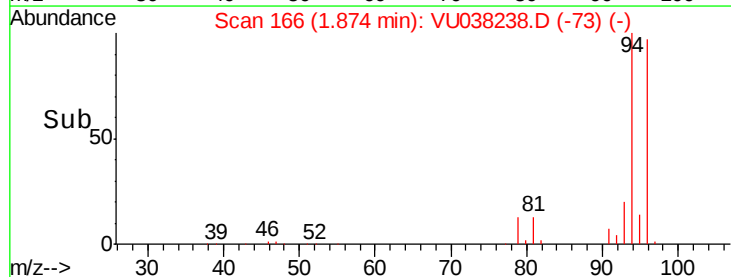
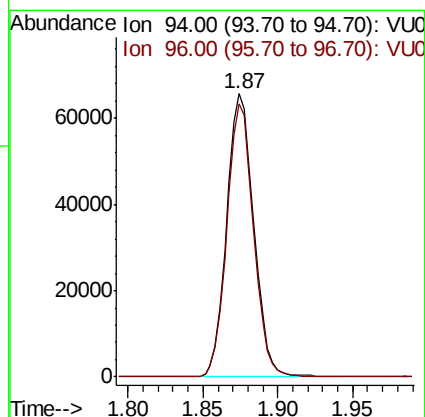
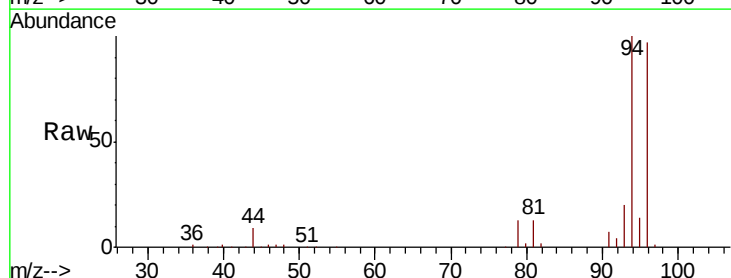
Acq: 19 May 2020 16:35

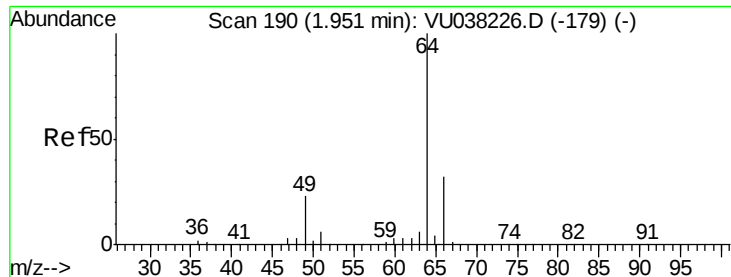
Tgt Ion: 94 Resp: 82615

Ion Ratio Lower Upper

94 100

96 96.6 65.0 120.8





#8

Chloroethane

Concen: 4.727 ug/L

RT: 1.95 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU038238.D

Acq: 19 May 2020 16:35

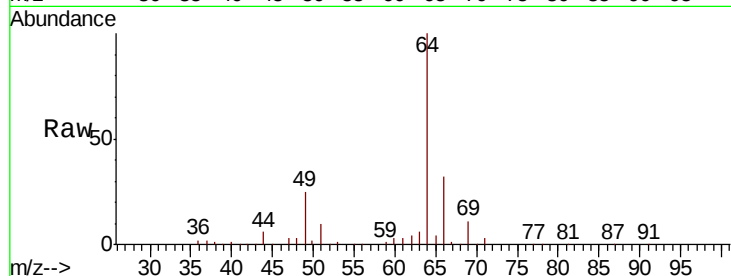
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 64 Resp: 97646

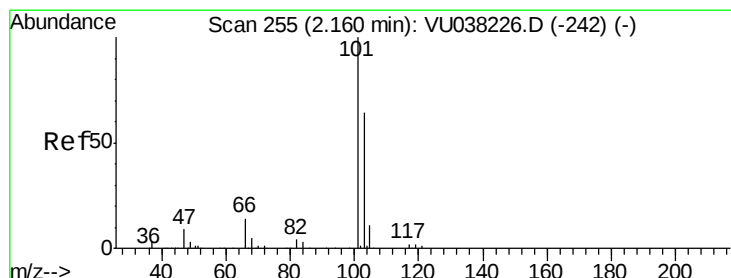
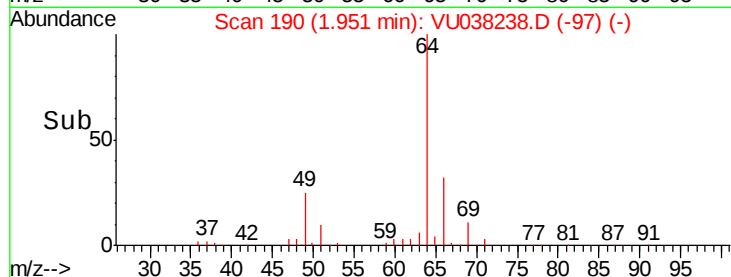
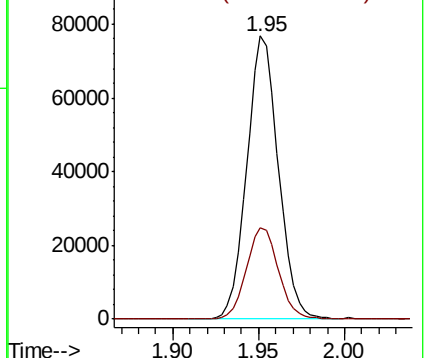
Ion Ratio Lower Upper

64 100

66 32.3 21.8 40.4



Abundance Ion 64.10 (63.80 to 64.80): VU038226.D (-179) (-)



#9

Trichlorofluoromethane

Concen: 4.717 ug/L

RT: 2.16 min Scan# 254

Delta R.T. -0.00 min

Lab File: VU038238.D

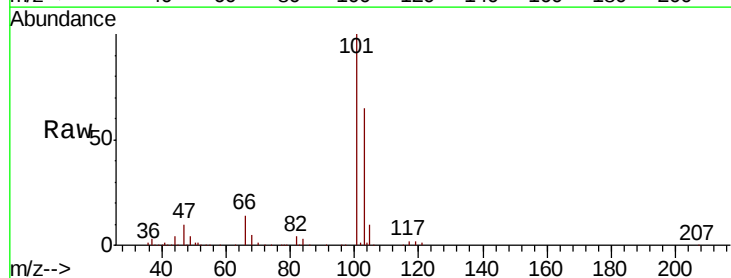
Acq: 19 May 2020 16:35

Tgt Ion:101 Resp: 161968

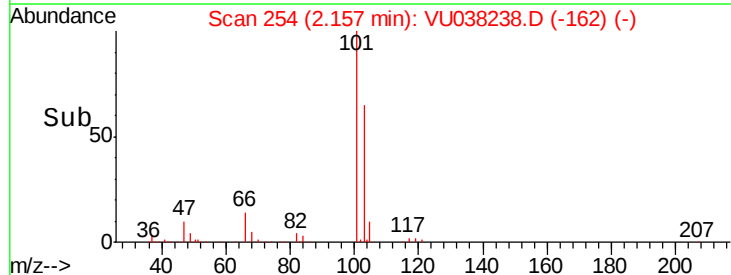
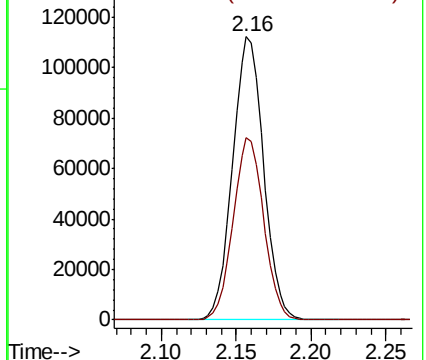
Ion Ratio Lower Upper

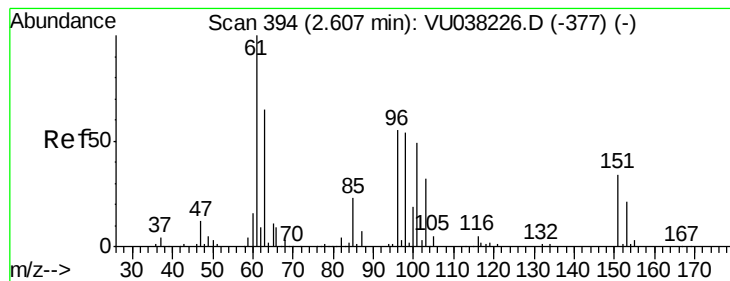
101 100

103 63.5 51.0 76.4



Abundance Ion 101.00 (100.70 to 101.70): VU038226.D (-242) (-)





#10

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

Concen: 4.639 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU038238.D

Acq: 19 May 2020 16:35

Instrument :

MSVOA_U

ClientSampleId :

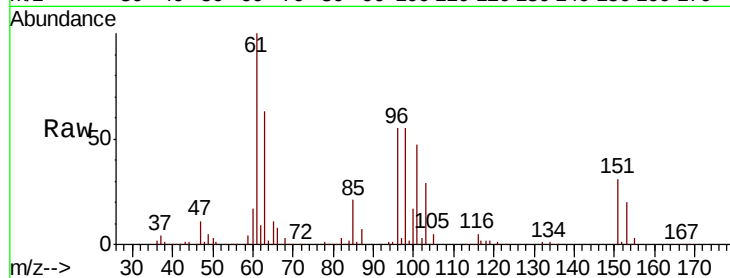
Tot Ion:101 Resp: 98744

Ion Ratio Lower Upper

101 100

85 43.2 35.3 52.9

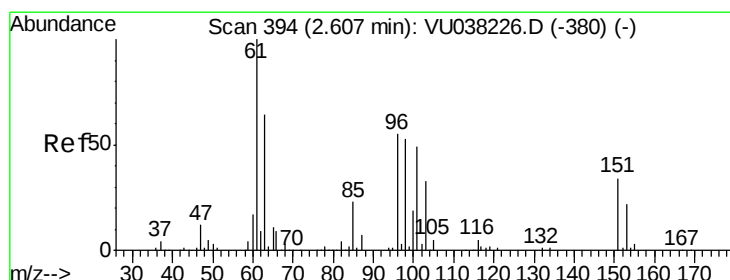
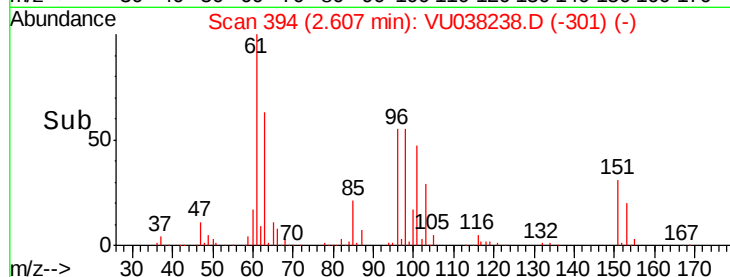
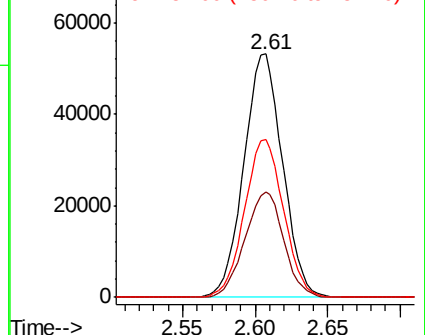
151 65.3 54.2 81.2



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: 4.683 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU038238.D

Acq: 19 May 2020 16:35

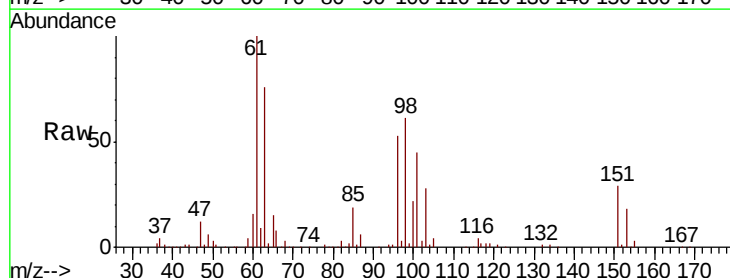
Tgt Ion: 96 Resp: 101056

Ion Ratio Lower Upper

96 100

61 187.2 126.2 234.4

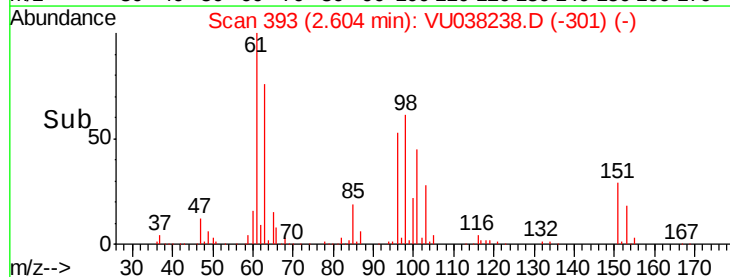
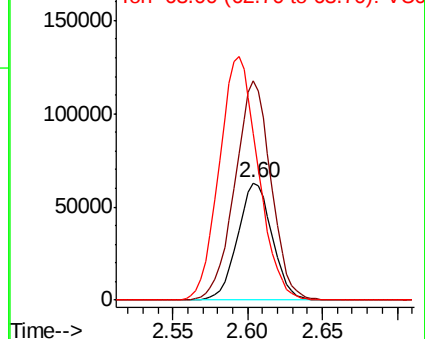
63 143.0 96.9 179.9

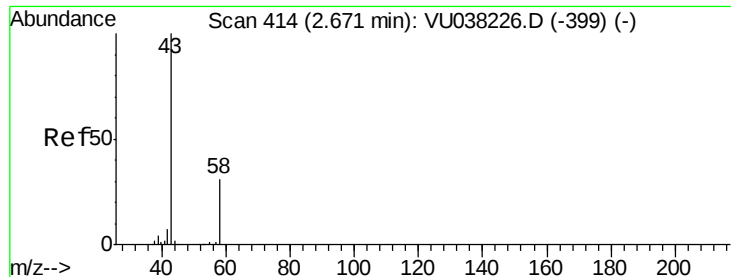


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 60.153 ug/L

RT: 2.68 min Scan# 418

Delta R.T. 0.01 min

Lab File: VU038238.D

Acq: 19 May 2020 16:35

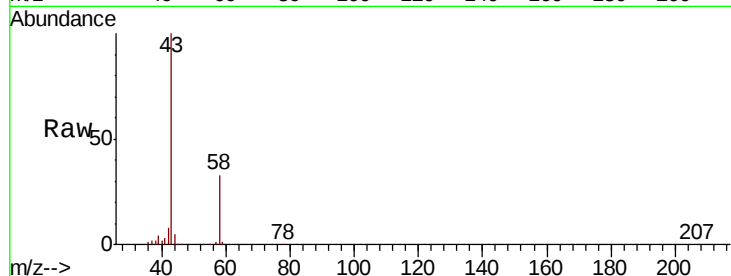
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 264823

Ion Ratio Lower Upper

43 100

58 32.5 0.0 63.6



Abundance Ion 43.05 (42.75 to 43.75): VU038226.D (-399) (-)

Ion 58.05 (57.75 to 58.75): VU038226.D (-399) (-)

2.68

60000

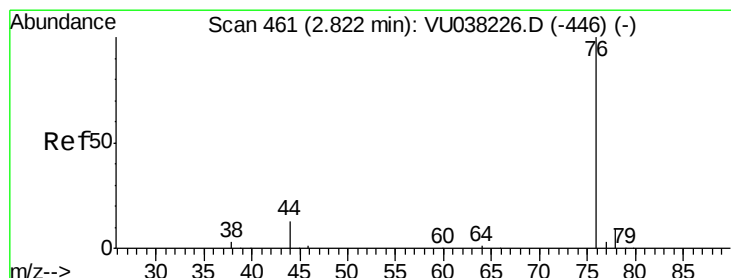
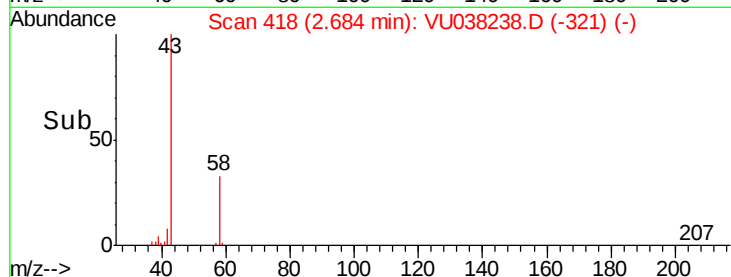
40000

20000

0

Time-->

2.60 2.70 2.80 2.90



#14

Carbon disulfide

Concen: 4.263 ug/L

RT: 2.82 min Scan# 460

Delta R.T. -0.00 min

Lab File: VU038238.D

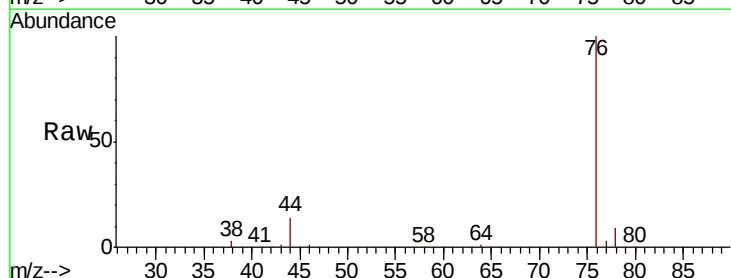
Acq: 19 May 2020 16:35

Tgt Ion: 76 Resp: 328133

Ion Ratio Lower Upper

76 100

78 9.5 7.1 10.7



Abundance Ion 76.05 (75.75 to 76.75): VU038226.D (-446) (-)

Ion 78.00 (77.70 to 78.70): VU038226.D (-446) (-)

2.82

200000

150000

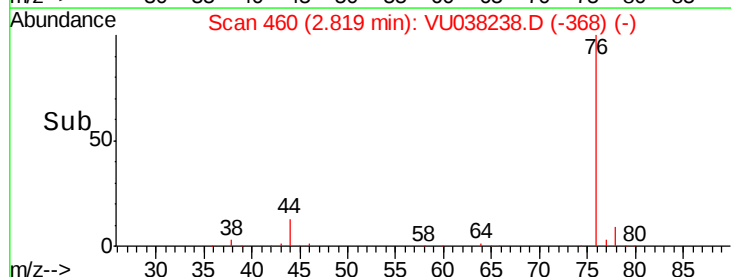
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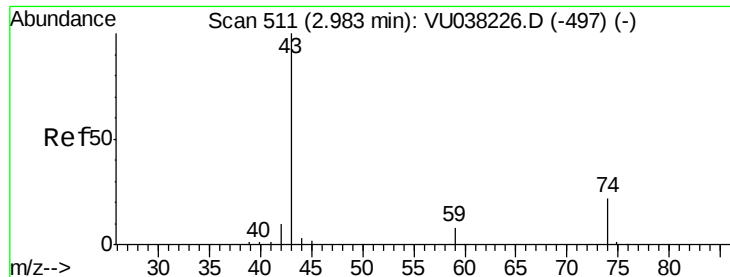
50000

0

Time-->

2.80 2.90

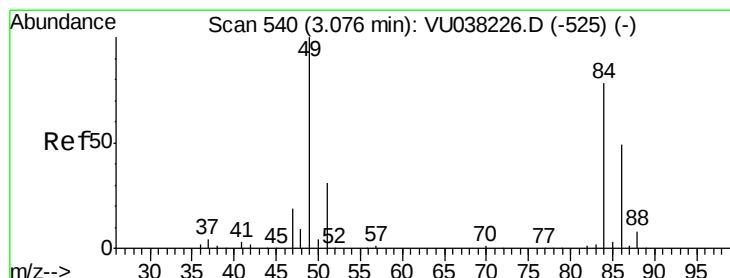
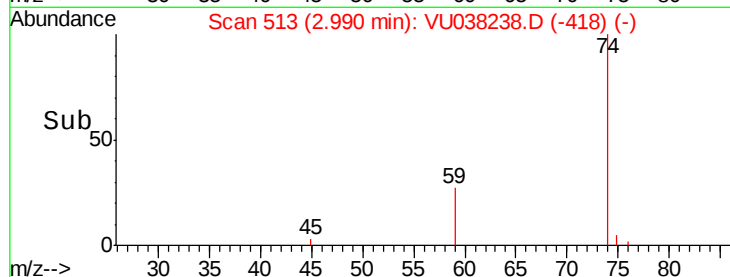
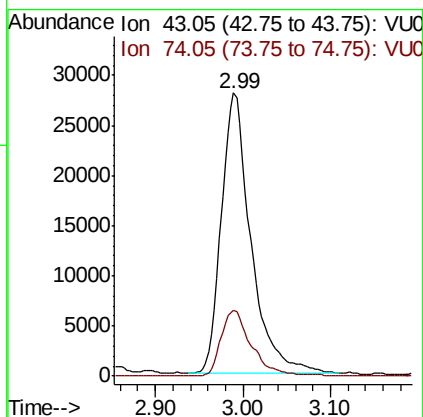
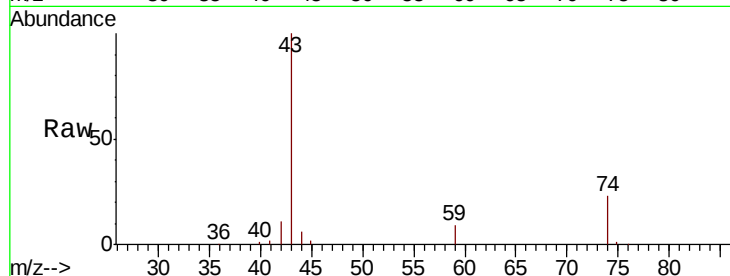




#15
Methvl Acetate
Concen: 5.340 ug/L
RT: 2.99 min Scan# 513
Delta R.T. 0.01 min
Lab File: VU038238.D
Acq: 19 May 2020 16:35

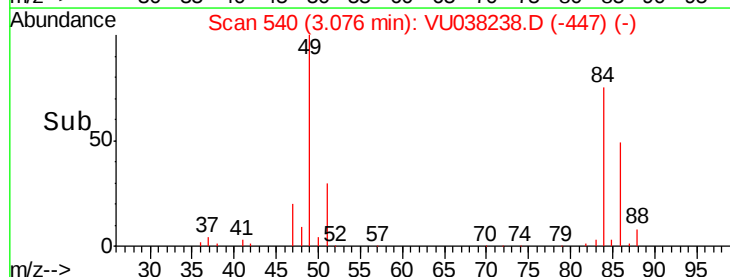
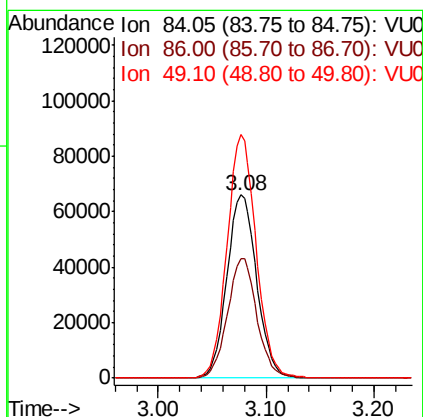
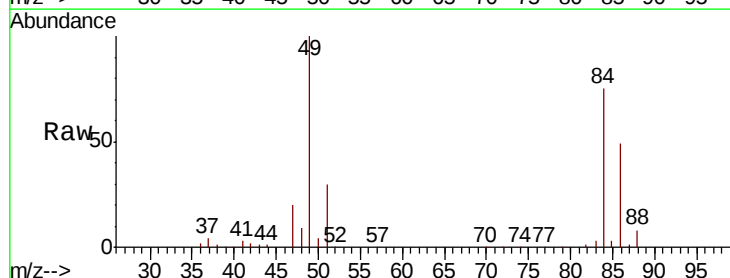
Instrument :
MSVOA_U
ClientSampleId :

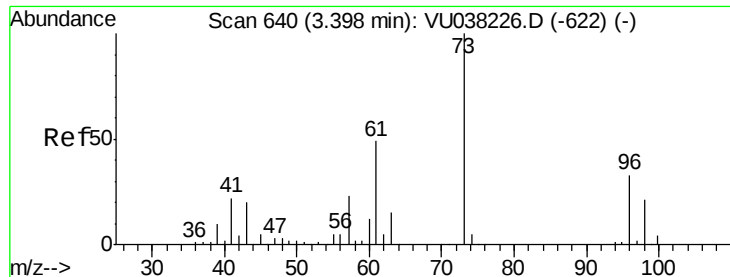
Tot Ion: 43 Resp: 65768
Ion Ratio Lower Upper
43 100
74 24.0 18.0 27.0



#16
Methylene chloride
Concen: 5.041 ug/L
RT: 3.08 min Scan# 540
Delta R.T. 0.00 min
Lab File: VU038238.D
Acq: 19 May 2020 16:35

Tgt Ion: 84 Resp: 126781
Ion Ratio Lower Upper
84 100
86 65.3 44.9 83.3
49 133.1 92.0 170.9

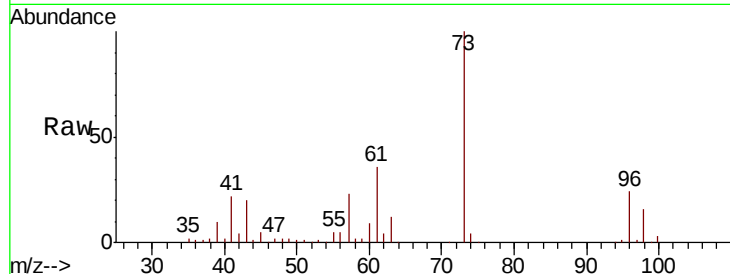




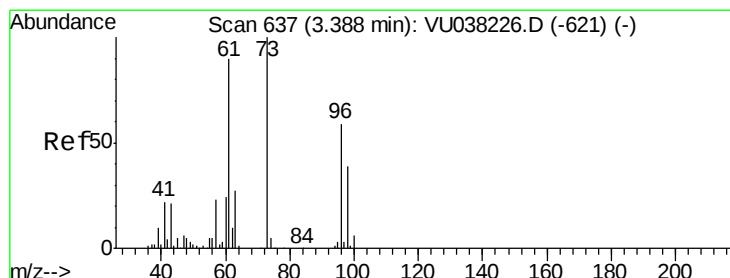
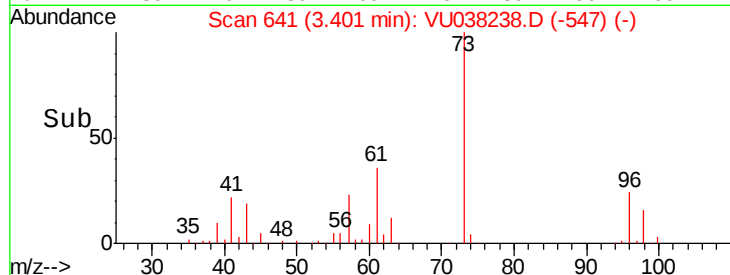
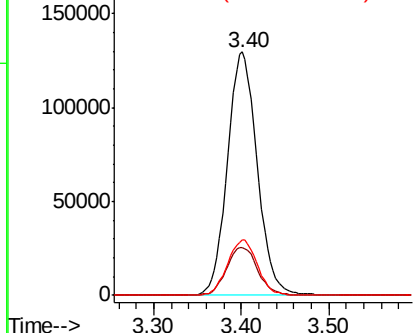
#17
Methvl tert-butvl Ether
Concen: 5.111 ug/L
RT: 3.40 min Scan# 641
Delta R.T. 0.00 min
Lab File: VU038238.D
Acq: 19 May 2020 16:35

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 73 Resp: 306414
Ion Ratio Lower Upper
73 100
43 20.8 16.9 25.3
57 22.9 18.2 27.2

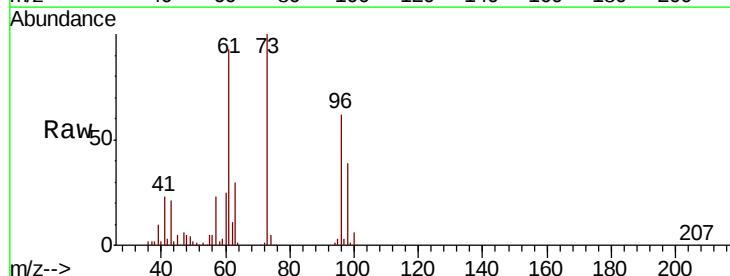


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

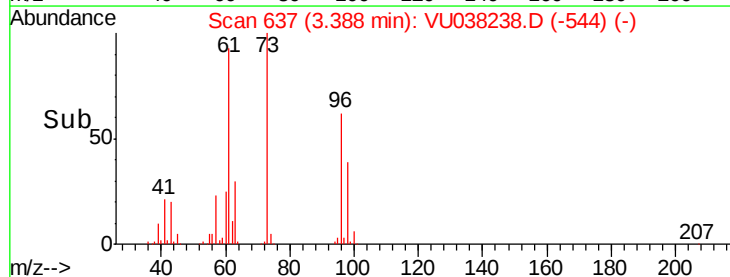
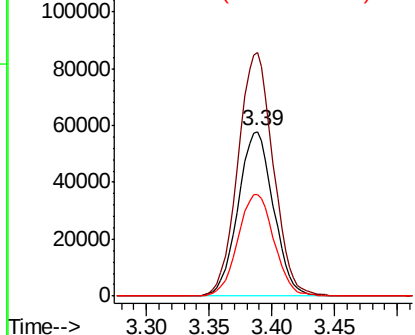


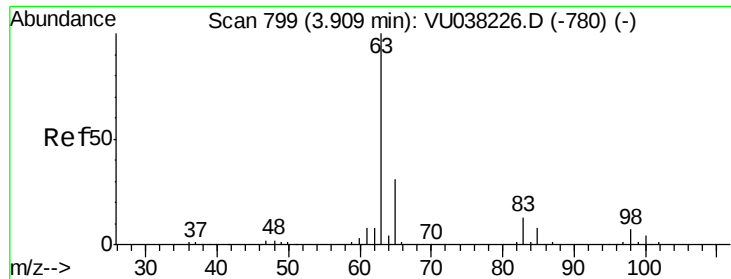
#18
trans-1,2-Dichloroethene
Concen: 4.831 ug/L
RT: 3.39 min Scan# 637
Delta R.T. 0.00 min
Lab File: VU038238.D
Acq: 19 May 2020 16:35

Tgt Ion: 96 Resp: 113812
Ion Ratio Lower Upper
96 100
61 148.2 102.1 189.5
98 61.8 45.6 84.8



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

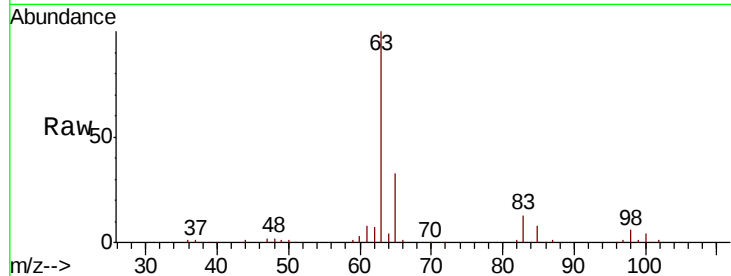




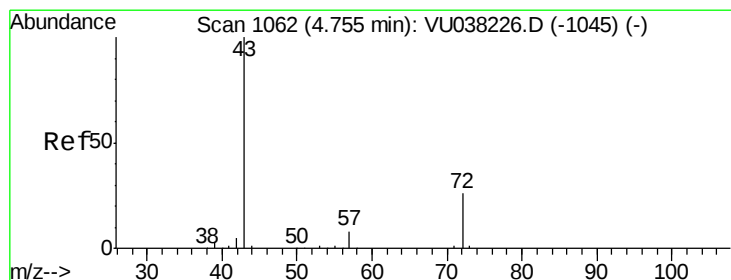
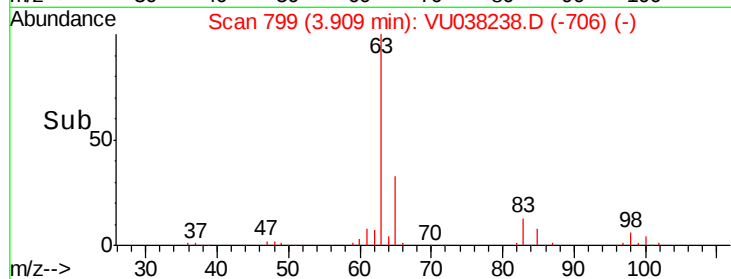
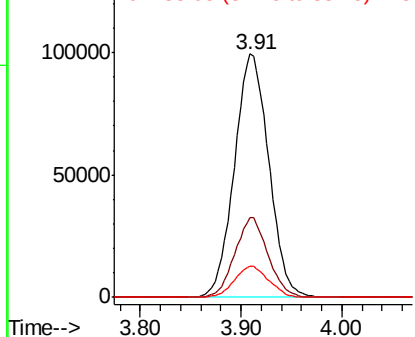
#19
 1,1-Dichloroethane
 Concen: 5.113 ug/L
 RT: 3.91 min Scan# 799
 Delta R.T. 0.00 min
 Lab File: VU038238.D
 Acq: 19 May 2020 16:35

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion: 63 Resp: 235253
 Ion Ratio Lower Upper
 63 100
 65 32.7 22.5 41.7
 83 13.0 8.9 16.5

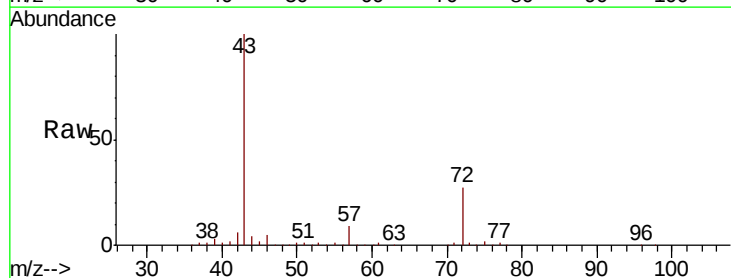


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

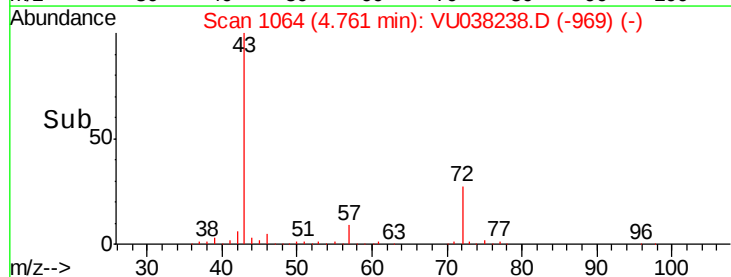
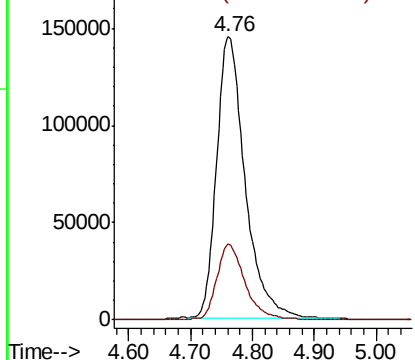


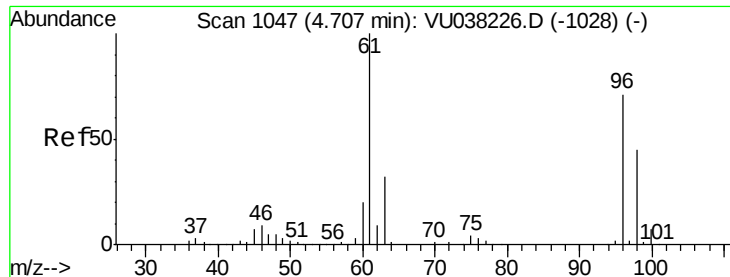
#21
 2-Butanone
 Concen: 59.980 ug/L
 RT: 4.76 min Scan# 1064
 Delta R.T. 0.01 min
 Lab File: VU038238.D
 Acq: 19 May 2020 16:35

Tgt Ion: 43 Resp: 466084
 Ion Ratio Lower Upper
 43 100
 72 26.8 13.5 40.4



Abundance Ion 43.05 (42.75 to 43.75): VU0
 Ion 72.10 (71.80 to 72.80): VU0





#22

cis-1,2-Dichloroethene

Concen: 5.120 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. 0.00 min

Lab File: VU038238.D

Acq: 19 May 2020 16:35

Instrument :
MSVOA_U
ClientSampled :

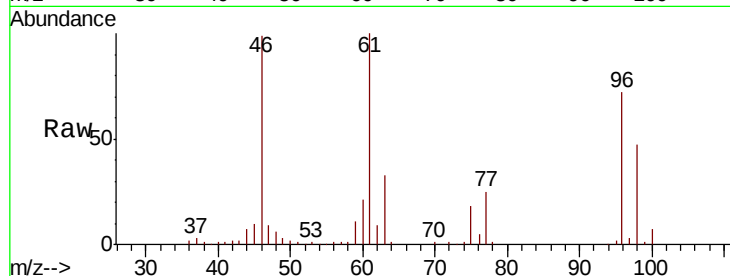
Tot Ion: 96 Resp: 129989

Ion Ratio Lower Upper

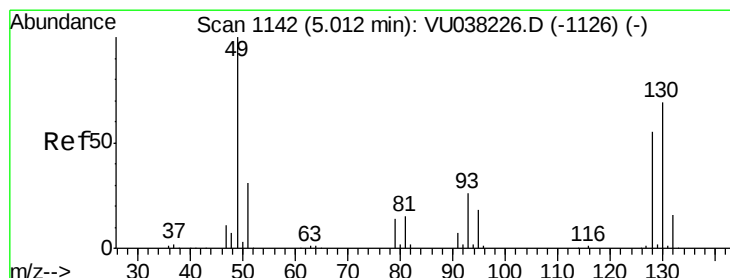
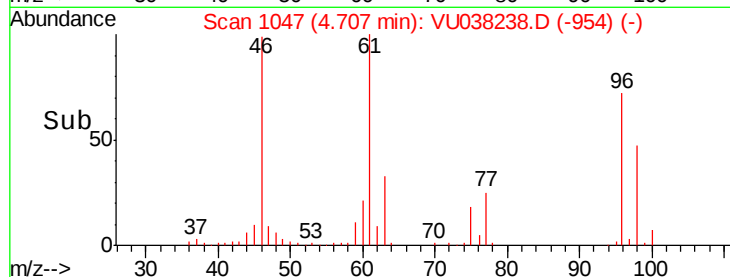
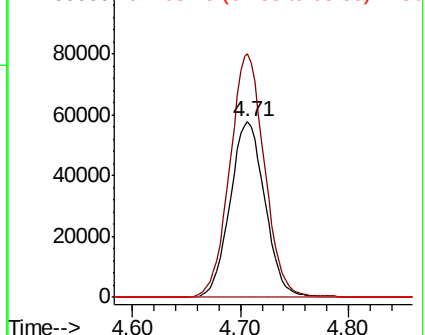
96 100

61 138.9 95.3 176.9

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: 5.279 ug/L

RT: 5.01 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VU038238.D

Acq: 19 May 2020 16:35

Tgt Ion: 128 Resp: 57670

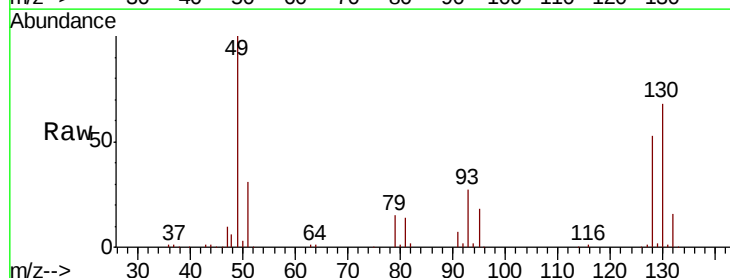
Ion Ratio Lower Upper

128 100

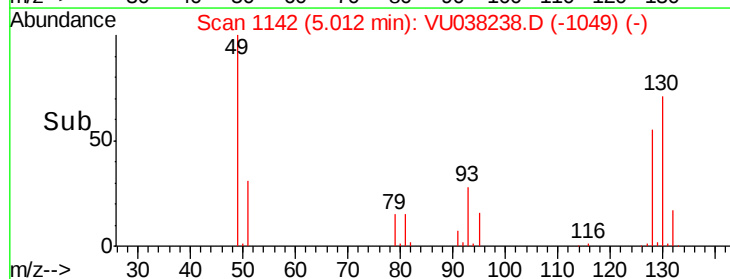
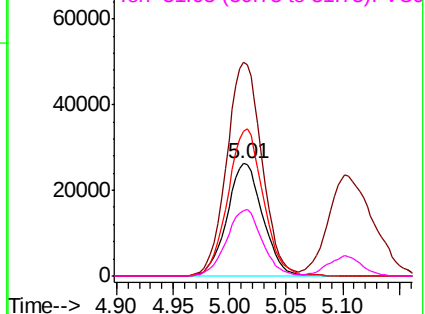
49 189.9 135.6 251.8

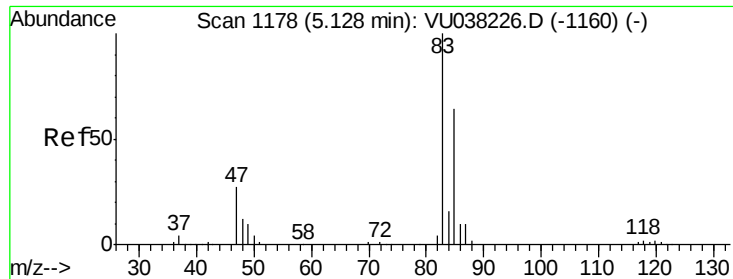
130 128.9 91.4 169.8

51 58.6 49.6 74.4



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

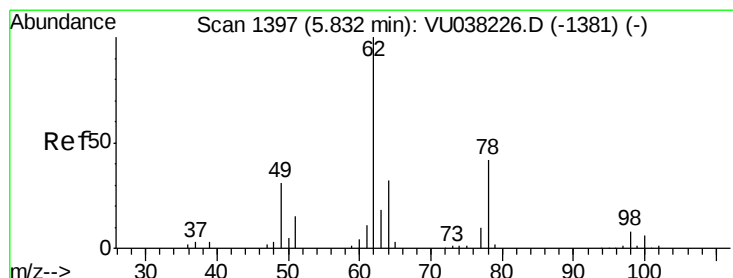
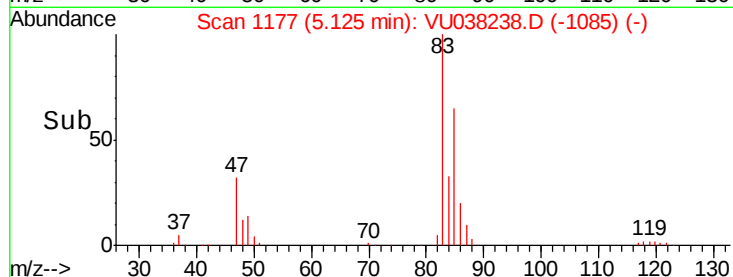
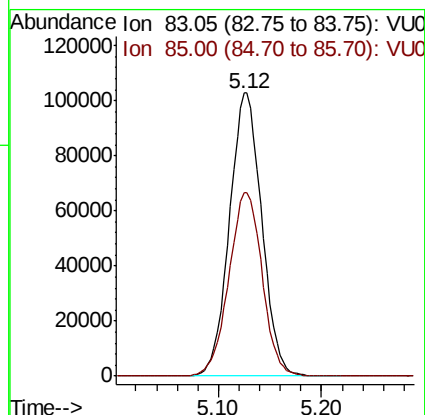
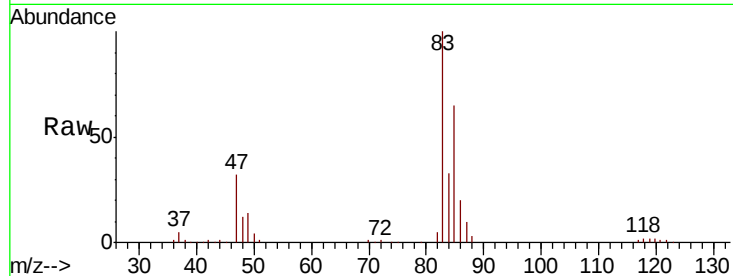




#25
Chloroform
Concen: 5.213 ug/L
RT: 5.12 min Scan# 1177
Delta R.T. -0.00 min
Lab File: VU038238.D
Acq: 19 May 2020 16:35

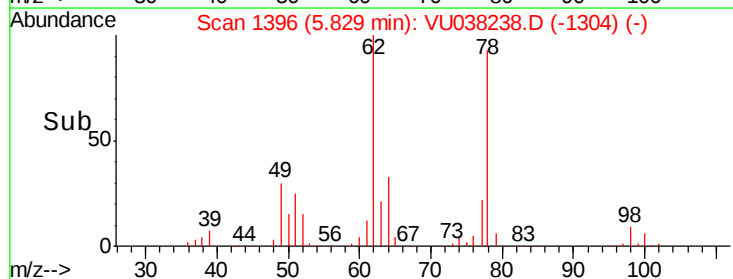
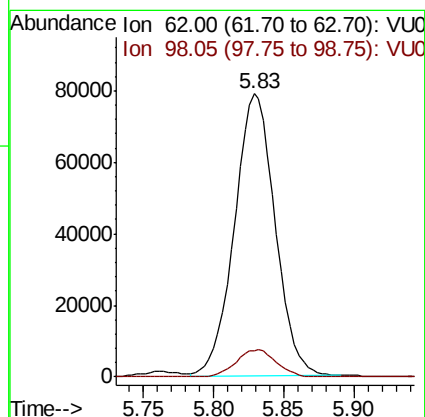
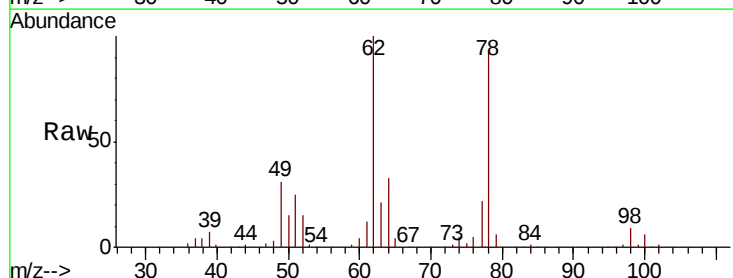
Instrument :
MSVOA_U
ClientSampled :

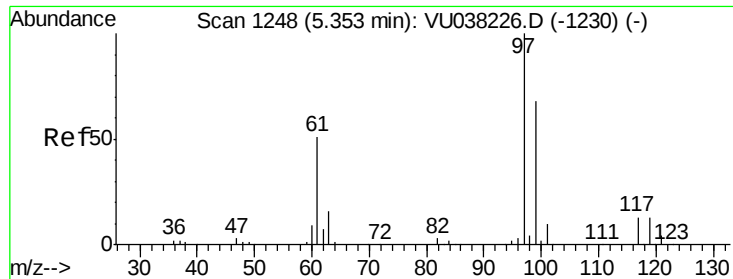
Tot Ion: 83 Resp: 223721
Ion Ratio Lower Upper
83 100
85 64.9 46.2 85.8



#27
1,2-Dichloroethane
Concen: 5.270 ug/L
RT: 5.83 min Scan# 1396
Delta R.T. -0.00 min
Lab File: VU038238.D
Acq: 19 May 2020 16:35

Tgt Ion: 62 Resp: 159656
Ion Ratio Lower Upper
62 100
98 9.4 7.8 11.8

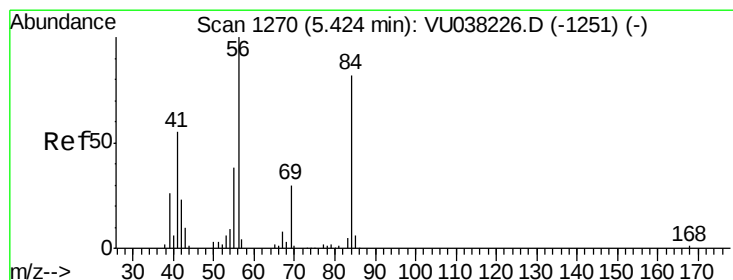
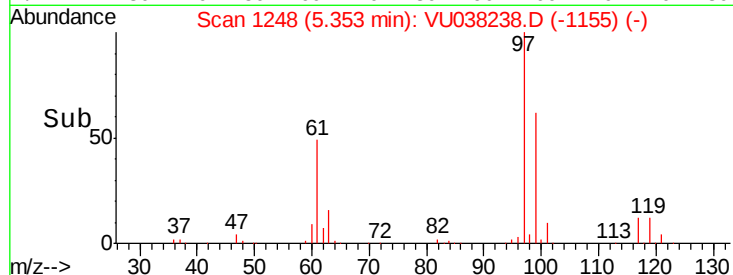
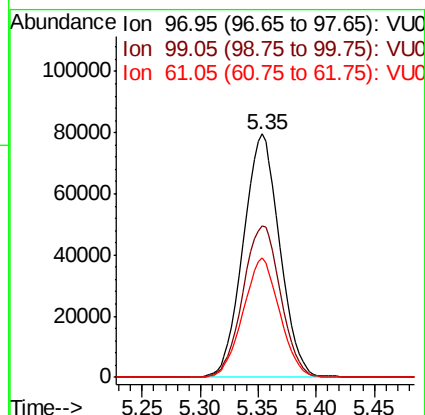
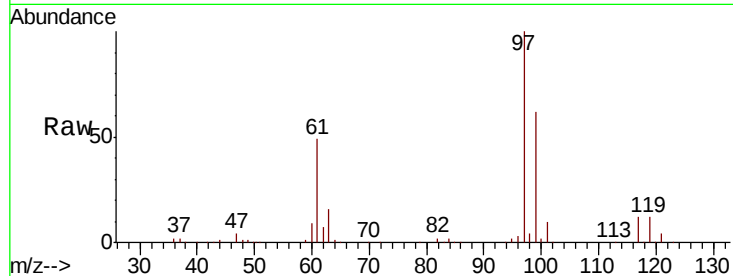




#29
 1,1,1-Trichloroethane
 Concen: 5.057 ug/L
 RT: 5.35 min Scan# 1248
 Delta R.T. 0.00 min
 Lab File: VU038238.D
 Acq: 19 May 2020 16:35

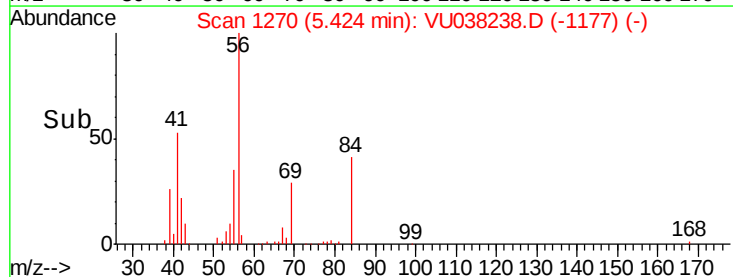
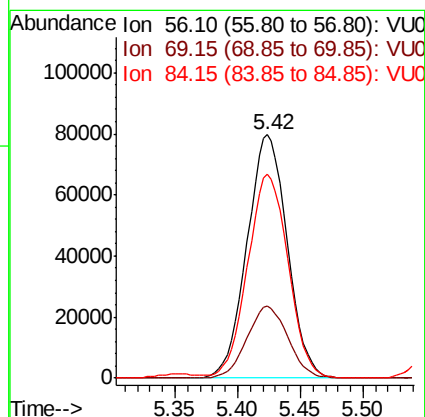
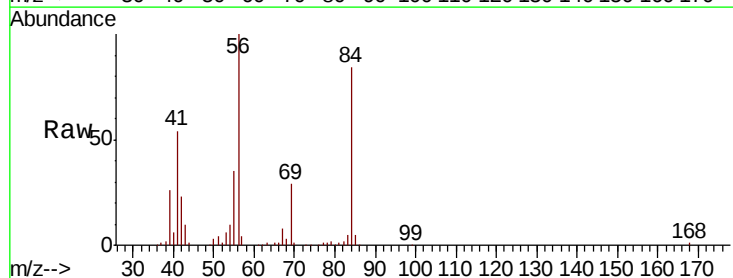
Instrument :
 MSVOA_U
 ClientSampled :

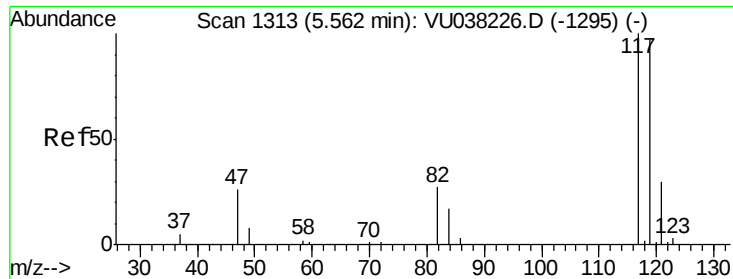
Tot Ion: 97 Resp: 173876
 Ion Ratio Lower Upper
 97 100
 99 64.8 51.0 76.4
 61 49.2 38.2 57.4



#30
 Cyclohexane
 Concen: 4.384 ug/L
 RT: 5.42 min Scan# 1270
 Delta R.T. 0.00 min
 Lab File: VU038238.D
 Acq: 19 May 2020 16:35

Tgt Ion: 56 Resp: 177967
 Ion Ratio Lower Upper
 56 100
 69 30.1 24.2 36.4
 84 84.6 68.5 102.7





#31

Carbon tetrachloride

Concen: 4.949 ug/L

RT: 5.56 min Scan# 1312

Delta R.T. -0.00 min

Lab File: VU038238.D

Acq: 19 May 2020 16:35

Instrument :

MSVOA_U

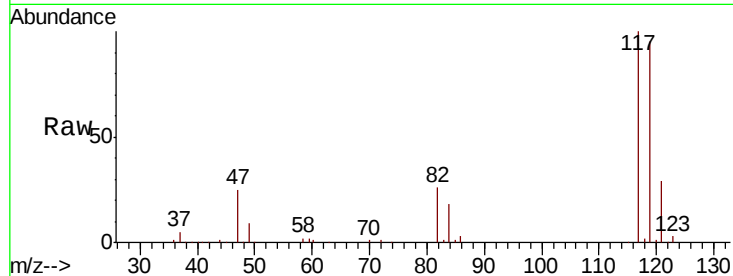
ClientSampleId :

Tot Ion:117 Resp: 136769

Ion Ratio Lower Upper

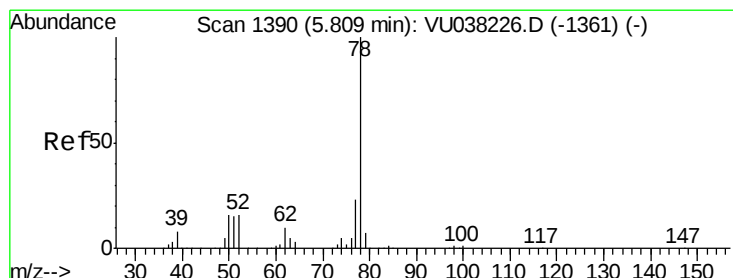
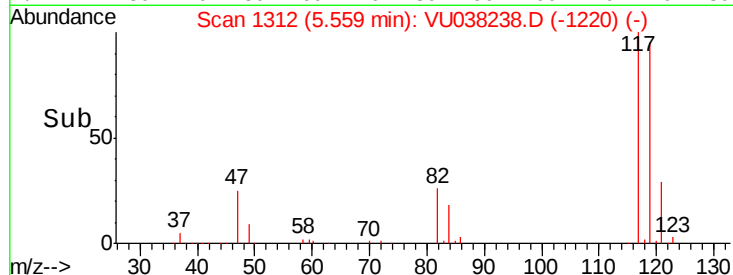
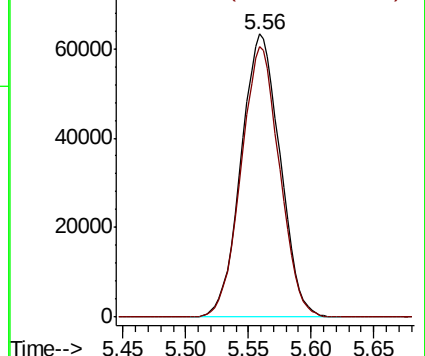
117 100

119 94.0 75.4 113.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.213 ug/L

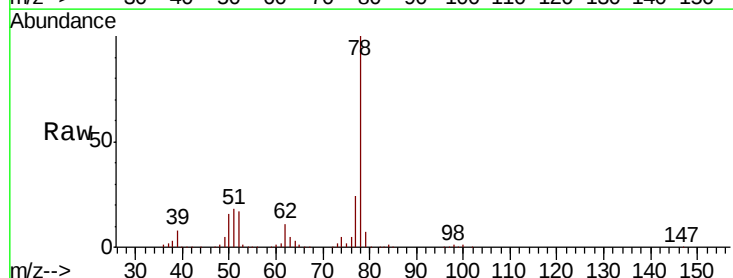
RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

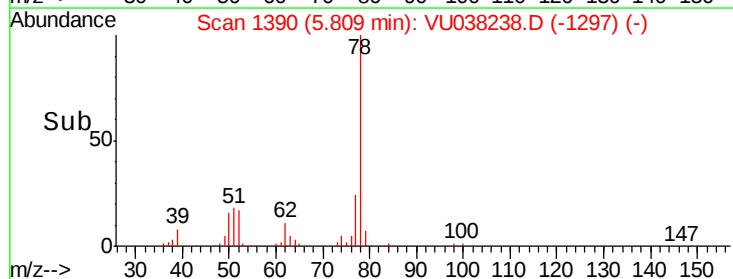
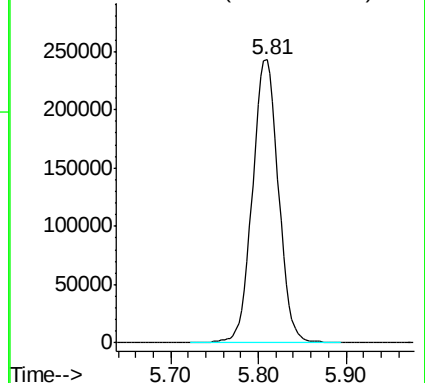
Lab File: VU038238.D

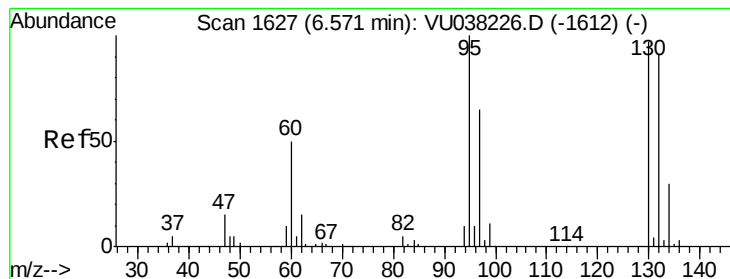
Acq: 19 May 2020 16:35

Tgt Ion: 78 Resp: 500984



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 5.009 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. 0.00 min

Lab File: VU038238.D

Acq: 19 May 2020 16:35

Instrument :

MSVOA_U

ClientSampled :

Tot Ion: 95 Resp: 120382

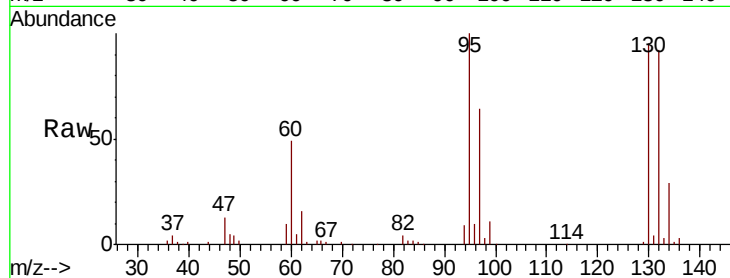
Ion Ratio Lower Upper

95 100

97 63.8 44.9 83.3

132 92.3 63.3 117.5

130 94.7 65.7 122.1

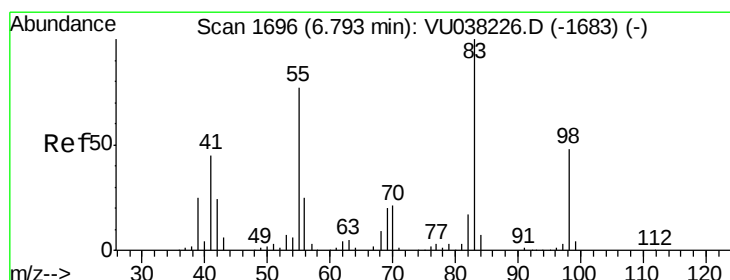
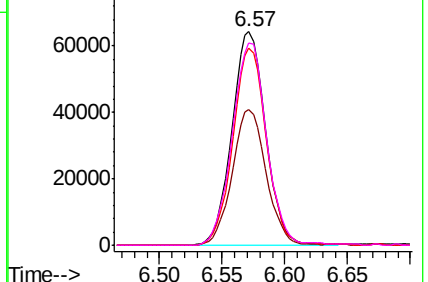
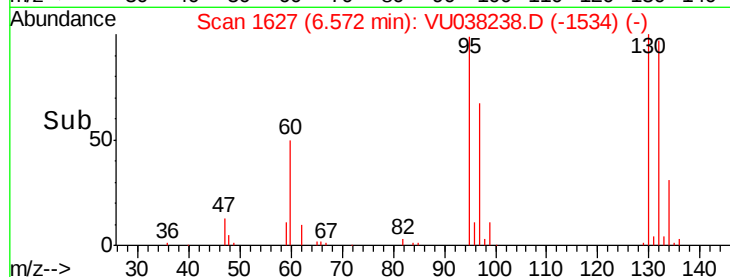


Abundance Ion 95.00 (94.70 to 95.70): VU038238.D (-1534) (-)

Ion 96.95 (96.65 to 97.65): VU038238.D (-1534) (-)

Ion 131.95 (131.65 to 132.65): VU038238.D (-1534) (-)

Ion 129.95 (129.65 to 130.65): VU038238.D (-1534) (-)



#35

Methylcyclohexane

Concen: 4.315 ug/L

RT: 6.79 min Scan# 1695

Delta R.T. -0.00 min

Lab File: VU038238.D

Acq: 19 May 2020 16:35

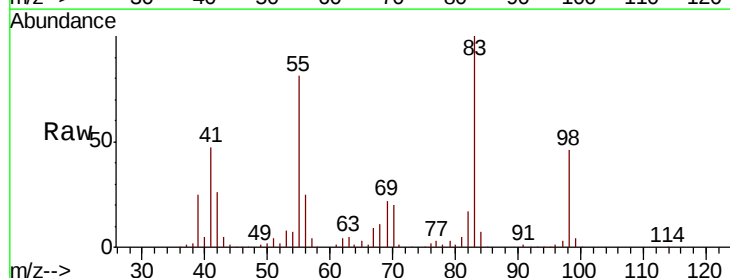
Tgt Ion: 83 Resp: 168007

Ion Ratio Lower Upper

83 100

55 81.0 66.7 100.1

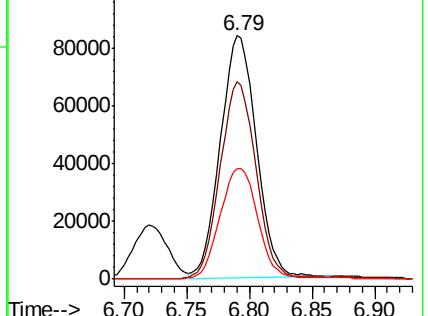
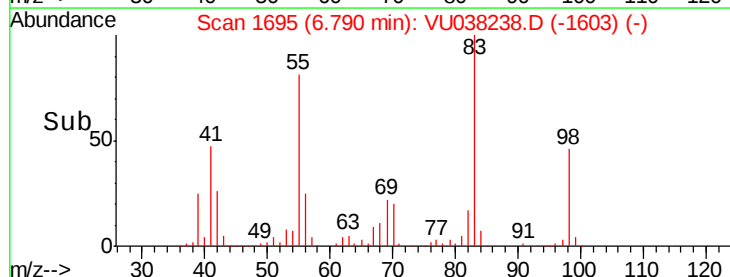
98 47.9 39.4 59.2

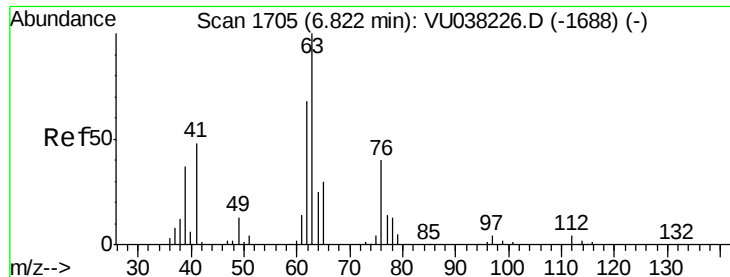


Abundance Ion 83.15 (82.85 to 83.85): VU038238.D (-1603) (-)

Ion 55.10 (54.80 to 55.80): VU038238.D (-1603) (-)

Ion 98.15 (97.85 to 98.85): VU038238.D (-1603) (-)

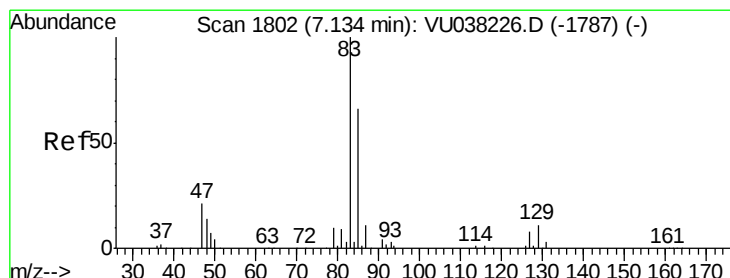
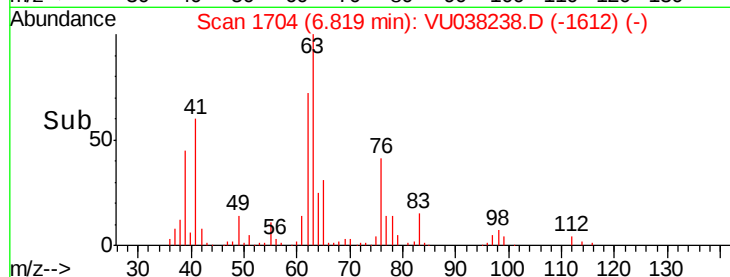
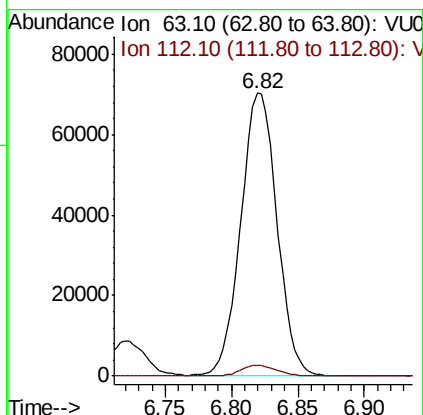
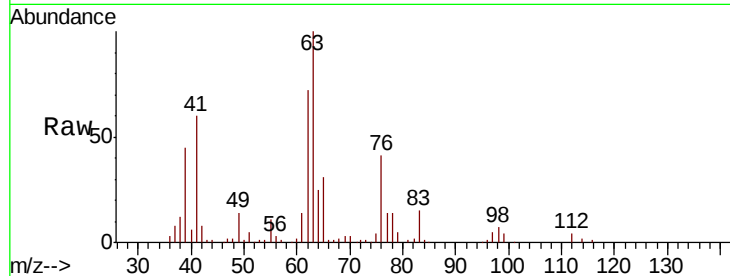




#37
 1,2-Dichloropropane
 Concen: 5.106 ug/L
 RT: 6.82 min Scan# 1704
 Delta R.T. -0.00 min
 Lab File: VU038238.D
 Acq: 19 May 2020 16:35

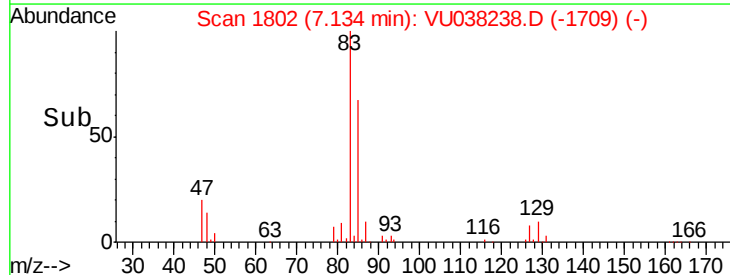
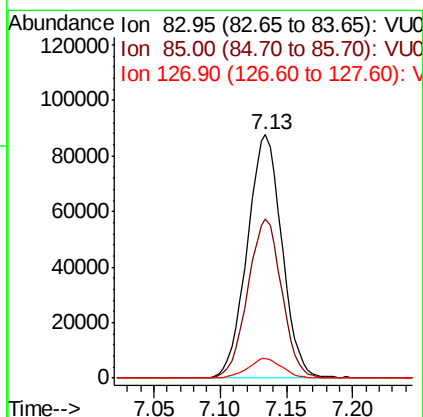
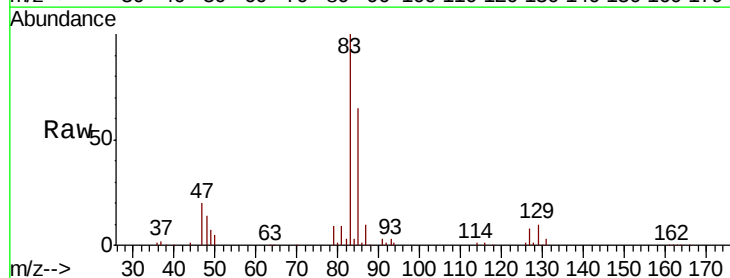
Instrument :
 MSVOA_U
 ClientSampleId :

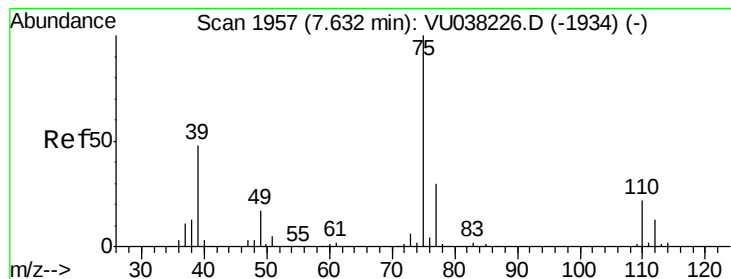
Tot Ion: 63 Resp: 133276
 Ion Ratio Lower Upper
 63 100
 112 3.8 3.1 4.7



#38
 Bromodichloromethane
 Concen: 5.295 ug/L
 RT: 7.13 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VU038238.D
 Acq: 19 May 2020 16:35

Tgt Ion: 83 Resp: 159777
 Ion Ratio Lower Upper
 83 100
 85 65.2 44.6 82.8
 127 8.1 6.4 9.6



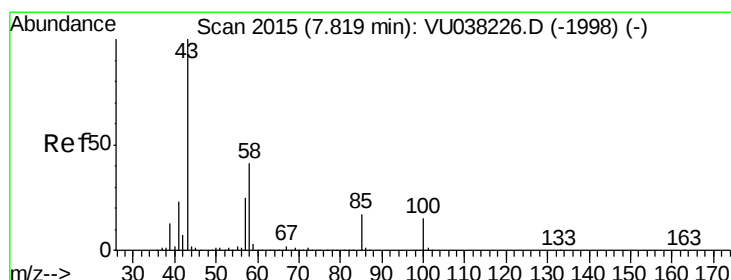
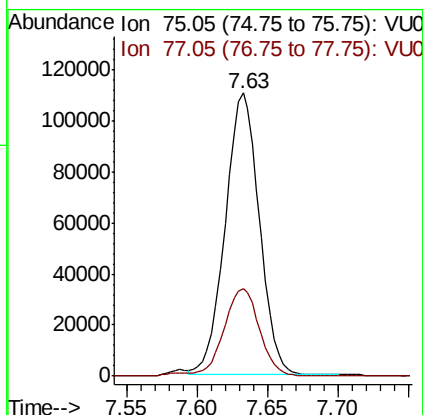
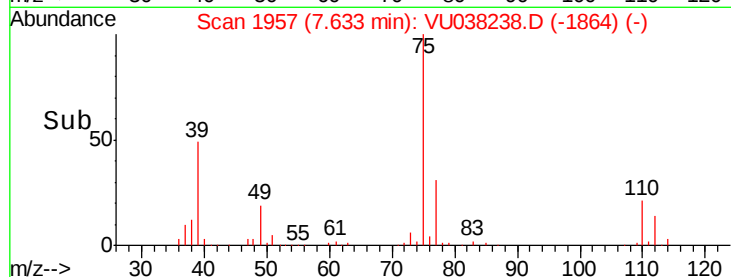
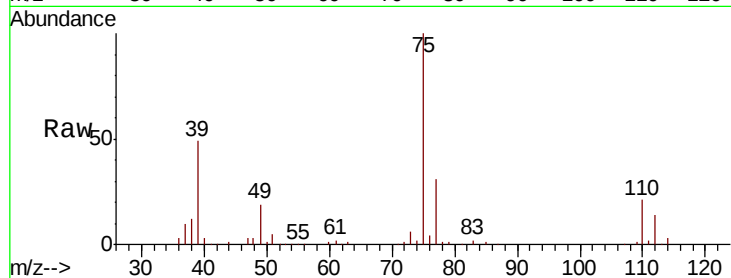


#39

cis-1,3-Dichloropropene
Concen: 4.986 ug/L
RT: 7.63 min Scan# 1957
Delta R.T. 0.00 min
Lab File: VU038238.D
Acq: 19 May 2020 16:35

Instrument :
MSVOA_U
ClientSampleId :

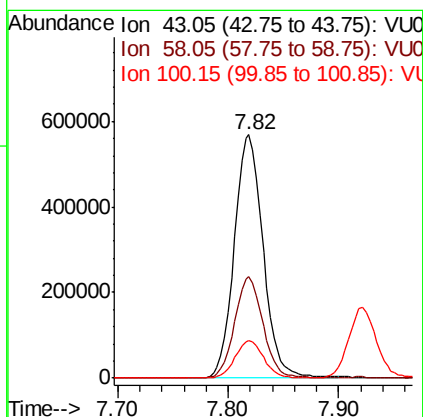
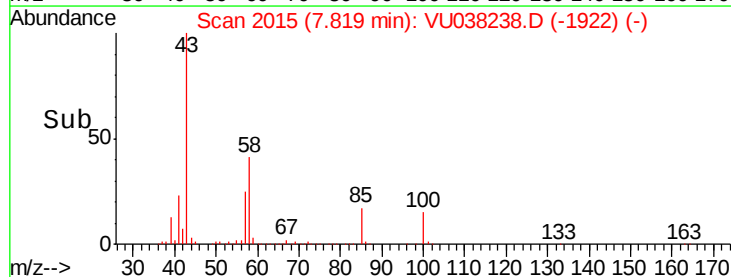
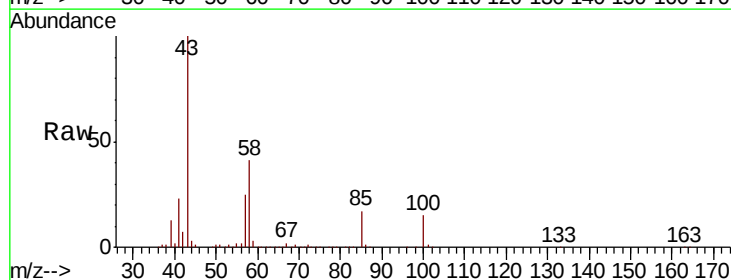
Tot Ion: 75 Resp: 186250
Ion Ratio Lower Upper
75 100
77 30.9 22.4 41.6

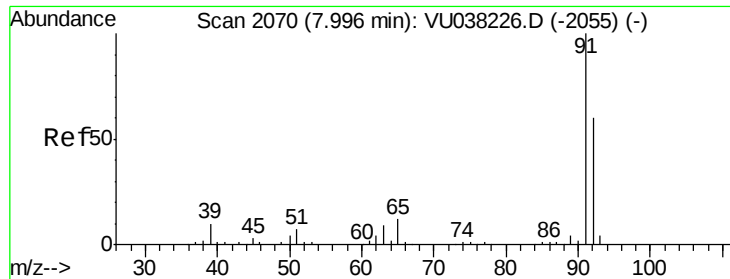


#40

4-Methyl-2-pentanone
Concen: 56.950 ug/L
RT: 7.82 min Scan# 1515
Delta R.T. 0.00 min
Lab File: VU038238.D
Acq: 19 May 2020 16:35

Tgt Ion: 43 Resp: 1030266
Ion Ratio Lower Upper
43 100
58 41.0 32.2 48.4
100 15.3 12.1 18.1





#42

Toluene

Concen: 5.012 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. -0.00 min

Lab File: VU038238.D

Acq: 19 May 2020 16:35

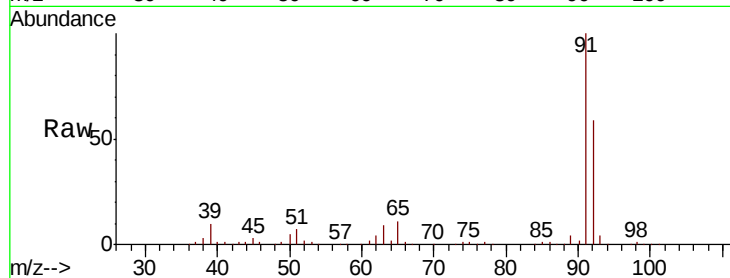
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 508419

Ion Ratio Lower Upper

91 100

92 58.5 40.9 75.9



Abundance Ion 91.15 (90.85 to 91.85): VU038226.D (-2055) (-)

Ion 92.15 (91.85 to 92.85): VU038226.D (-2055) (-)

7.99

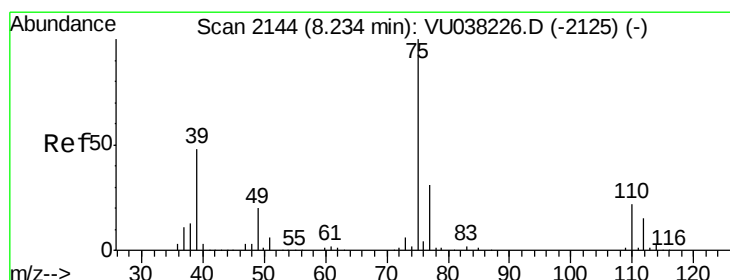
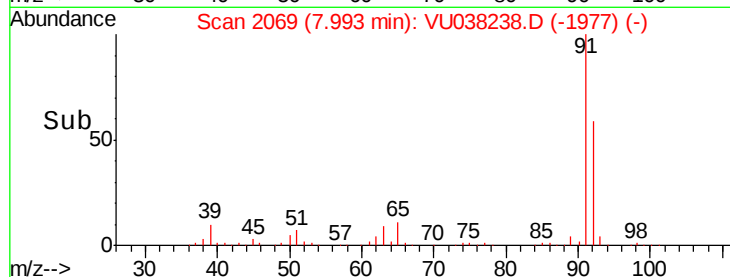
300000

200000

100000

0

Time--> 7.90 8.00 8.10



#44

trans-1,3-Dichloropropene

Concen: 5.237 ug/L

RT: 8.23 min Scan# 2143

Delta R.T. -0.00 min

Lab File: VU038238.D

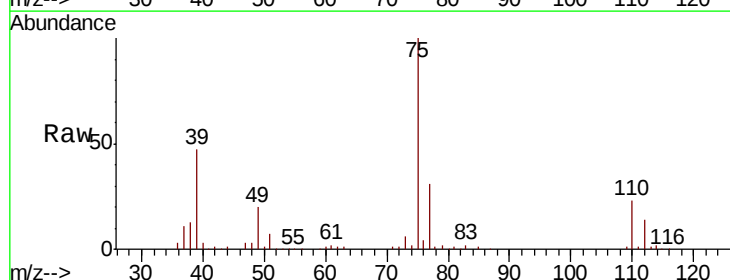
Acq: 19 May 2020 16:35

Tgt Ion: 75 Resp: 166368

Ion Ratio Lower Upper

75 100

77 30.9 22.4 41.6



Abundance Ion 75.05 (74.75 to 75.75): VU038226.D (-2125) (-)

Ion 77.05 (76.75 to 77.75): VU038226.D (-2125) (-)

8.23

100000

80000

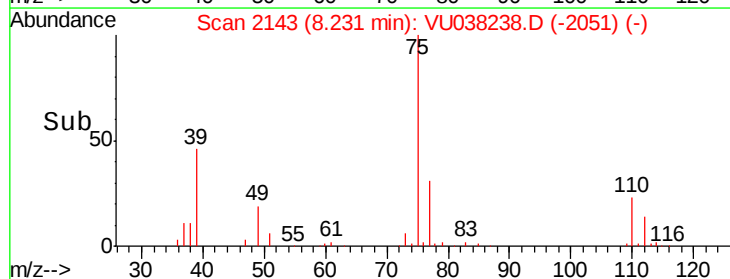
60000

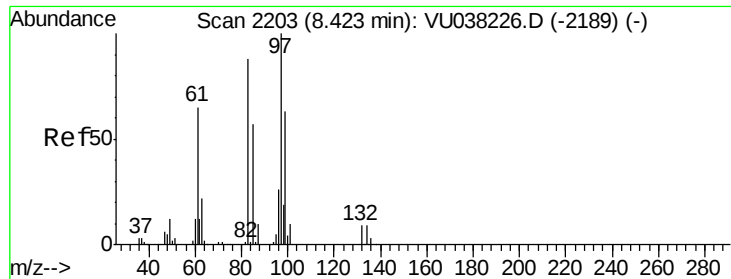
40000

20000

0

Time--> 8.15 8.20 8.25 8.30

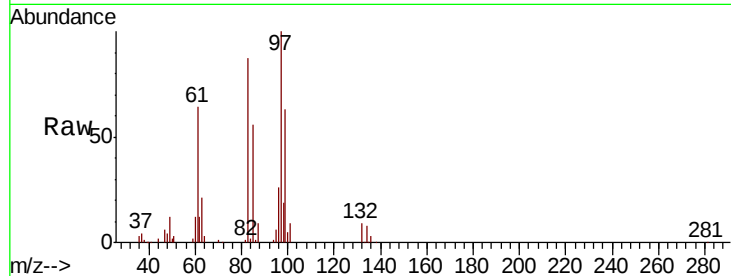




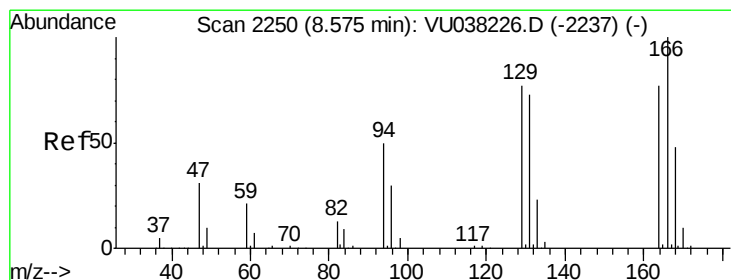
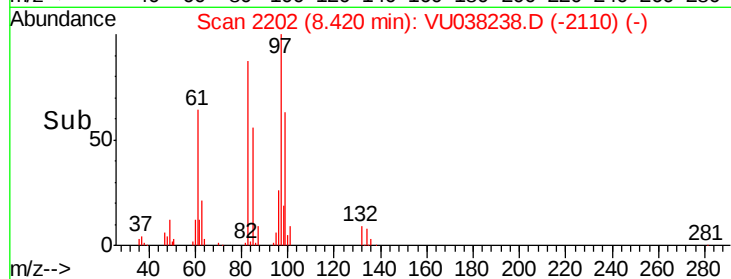
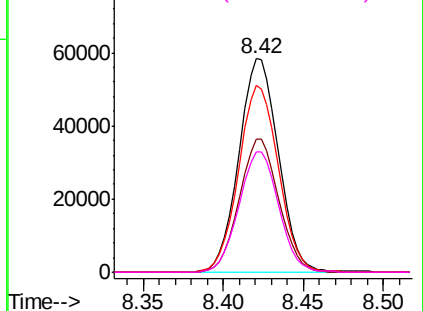
#45
1,1,2-Trichloroethane
Concen: 5.433 ug/L
RT: 8.42 min Scan# 2202
Delta R.T. -0.00 min
Lab File: VU038238.D
Acq: 19 May 2020 16:35

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:	97	Resp:	98474
Ion	Ratio	Lower	Upper
97	100		
99	62.6	44.0	81.6
83	87.5	59.6	110.8
85	56.4	41.3	76.7

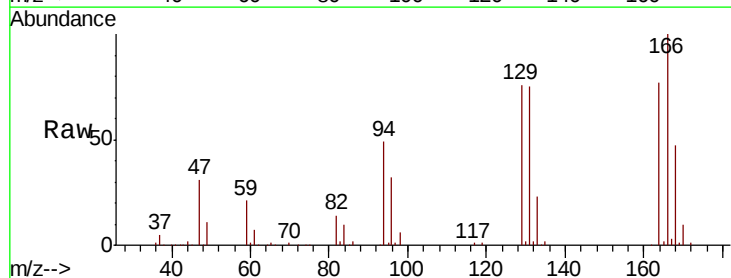


Abundance Ion 96.95 (96.65 to 97.65): VU0
Ion 99.05 (98.75 to 99.75): VU0
Ion 82.95 (82.65 to 83.65): VU0
Ion 85.00 (84.70 to 85.70): VU0

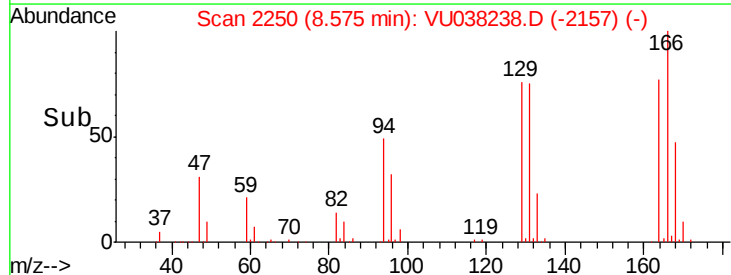
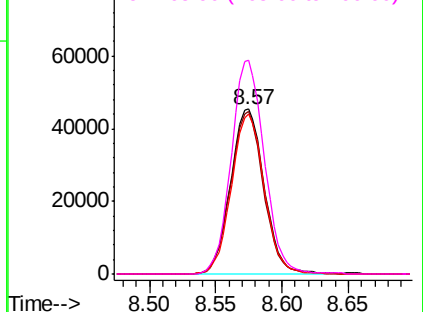


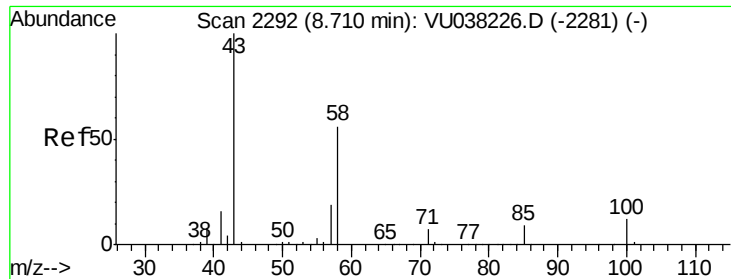
#47
Tetrachloroethene
Concen: 4.762 ug/L
RT: 8.57 min Scan# 2250
Delta R.T. 0.00 min
Lab File: VU038238.D
Acq: 19 May 2020 16:35

Tgt Ion:	164	Resp:	80058
Ion	Ratio	Lower	Upper
164	100		
129	98.4	68.8	127.8
131	96.9	66.8	124.2
166	129.8	88.9	165.1



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

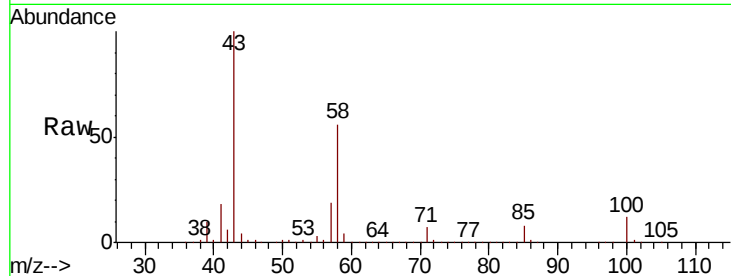




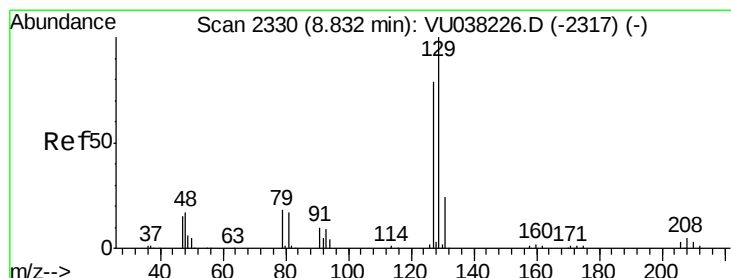
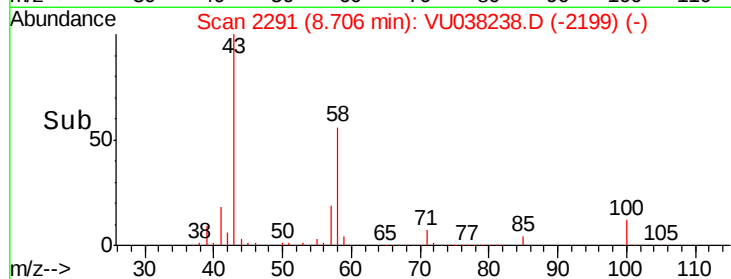
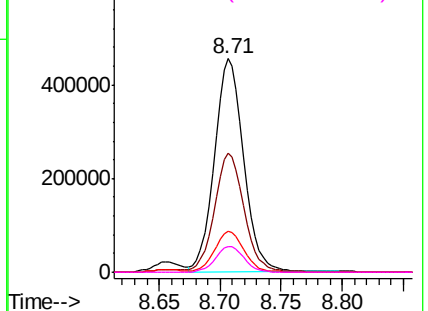
#48
2-Hexanone
Concen: 57.905 ug/L
RT: 8.71 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VU038238.D
Acq: 19 May 2020 16:35

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 767158
Ion Ratio Lower Upper
43 100
58 56.2 45.2 67.8
57 19.3 15.5 23.3
100 12.1 9.5 14.3

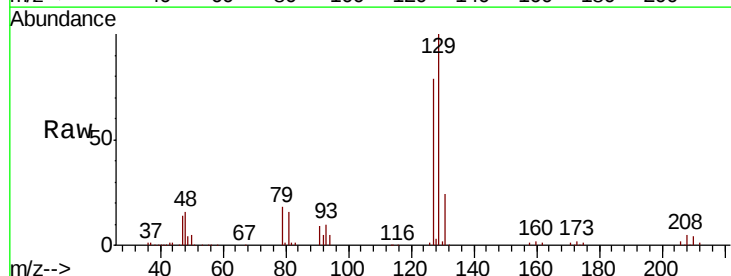


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

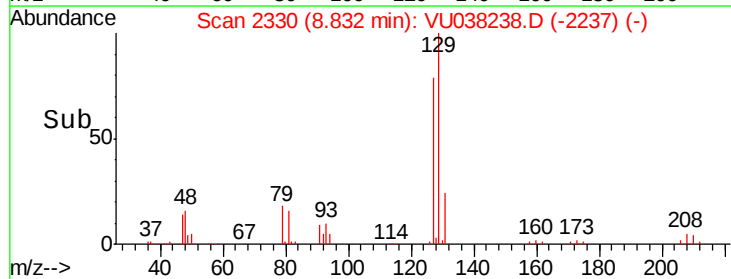
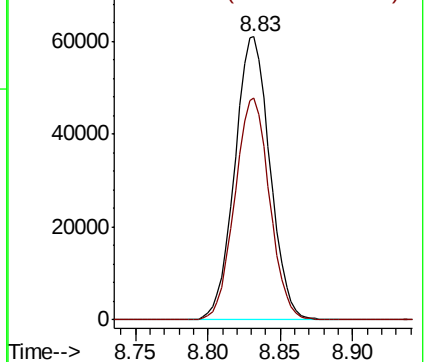


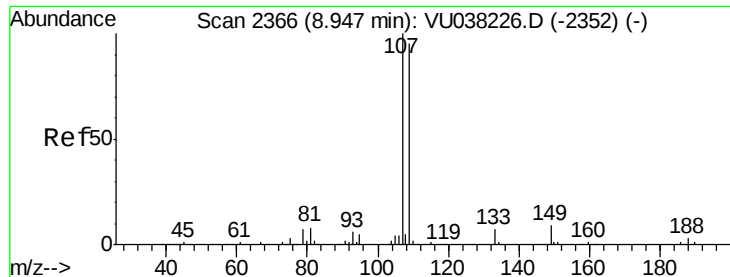
#49
Dibromochloromethane
Concen: 5.477 ug/L
RT: 8.83 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VU038238.D
Acq: 19 May 2020 16:35

Tgt Ion: 129 Resp: 103024
Ion Ratio Lower Upper
129 100
127 78.6 55.6 103.4



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

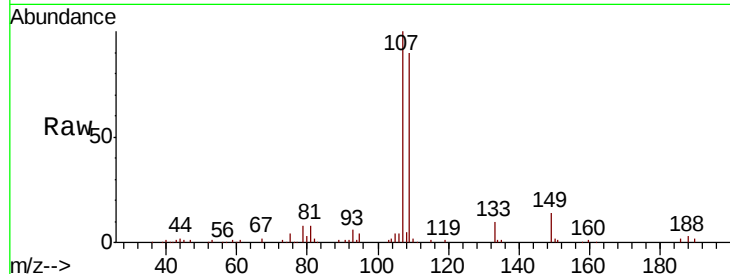




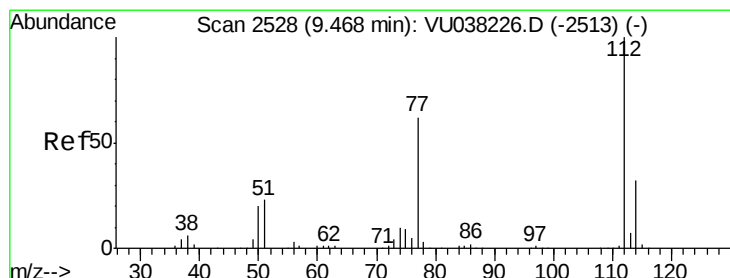
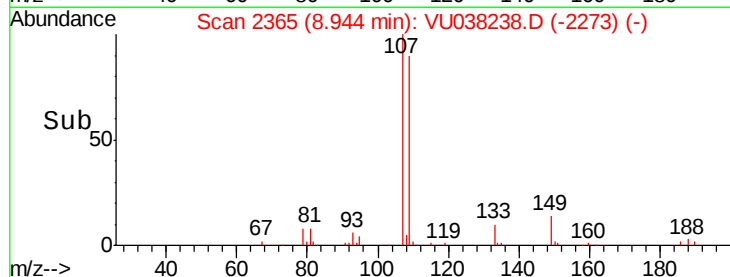
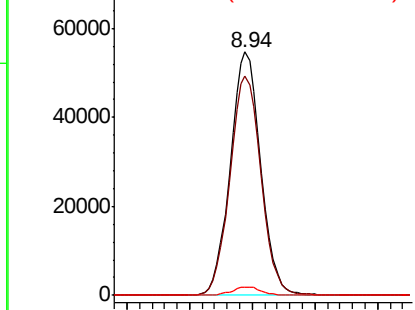
#50
1,2-Dibromoethane
Concen: 5.449 ug/L
RT: 8.94 min Scan# 2365
Delta R.T. -0.00 min
Lab File: VU038238.D
Acq: 19 May 2020 16:35

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:107 Resp: 91661
Ion Ratio Lower Upper
107 100
109 90.2 65.1 120.9
188 3.2 2.6 4.0

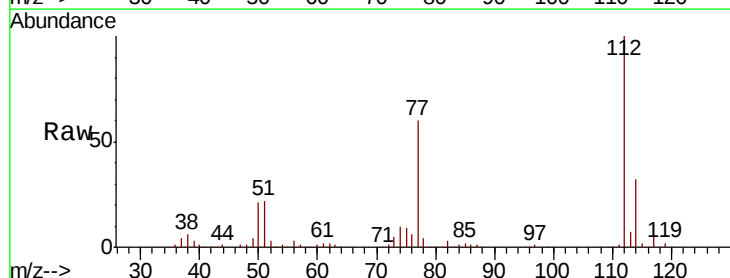


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

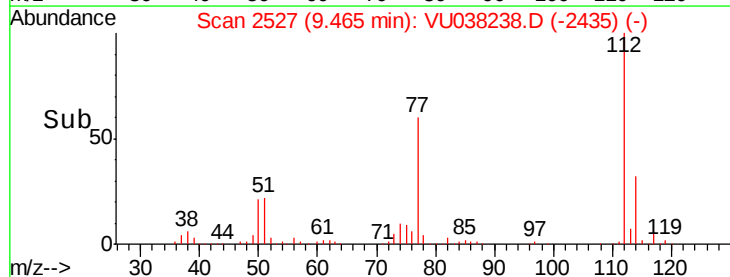
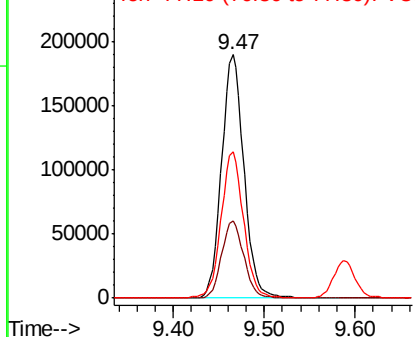


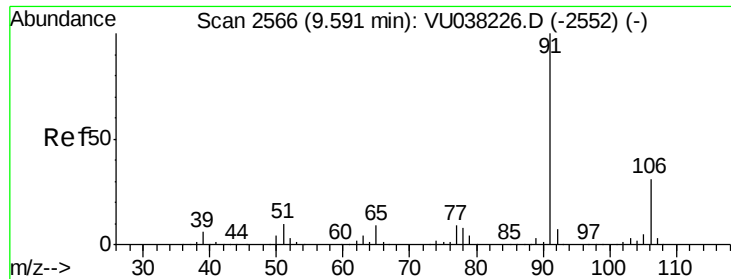
#51
Chlorobenzene
Concen: 5.160 ug/L
RT: 9.47 min Scan# 2527
Delta R.T. -0.00 min
Lab File: VU038238.D
Acq: 19 May 2020 16:35

Tgt Ion:112 Resp: 324844
Ion Ratio Lower Upper
112 100
114 31.7 22.5 41.7
77 59.9 49.9 74.9



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V

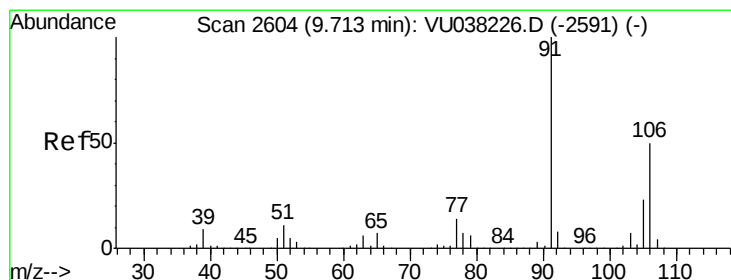
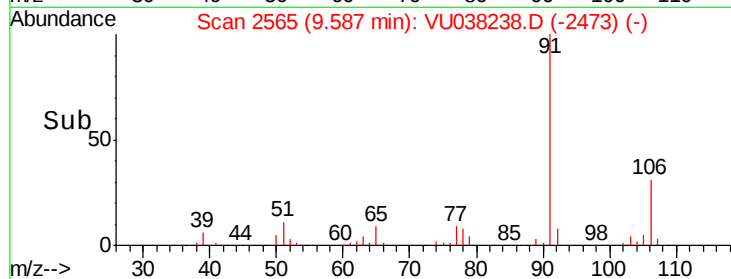
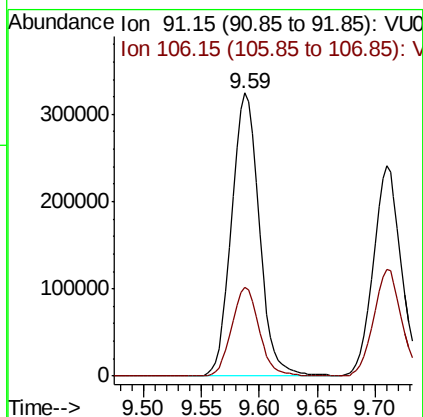
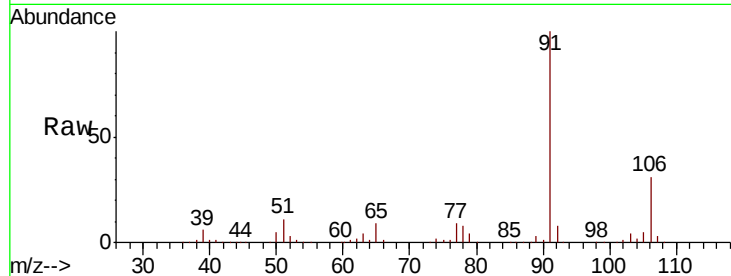




#52
Ethylbenzene
Concen: 4.863 ug/L
RT: 9.59 min Scan# 2565
Delta R.T. -0.00 min
Lab File: VU038238.D
Acq: 19 May 2020 16:35

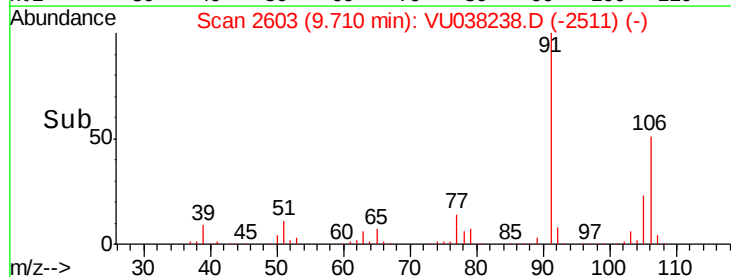
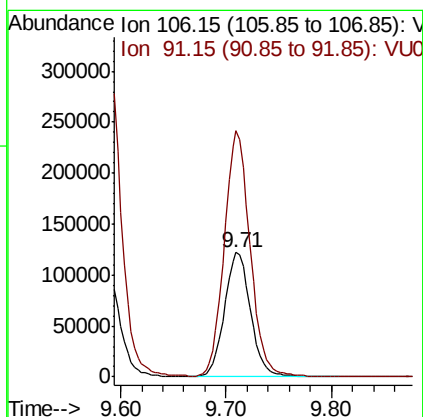
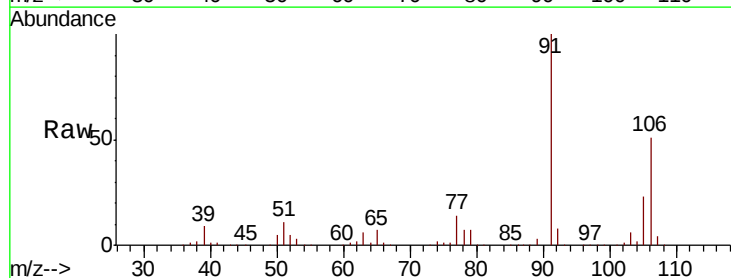
Instrument :
MSVOA_U
ClientSampleId :

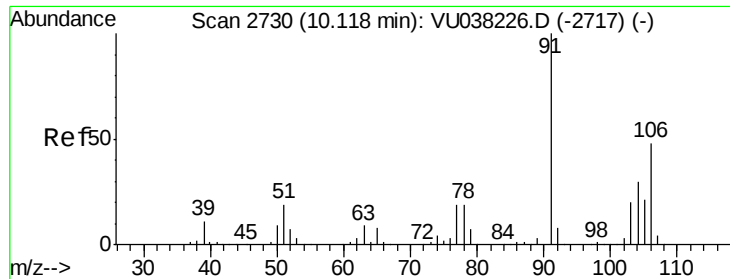
Tot Ion: 91 Resp: 534346
Ion Ratio Lower Upper
91 100
106 31.4 21.8 40.4



#53
m,p-Xylene
Concen: 4.965 ug/L
RT: 9.71 min Scan# 2603
Delta R.T. -0.00 min
Lab File: VU038238.D
Acq: 19 May 2020 16:35

Tgt Ion: 106 Resp: 209201
Ion Ratio Lower Upper
106 100
91 197.5 142.1 263.9

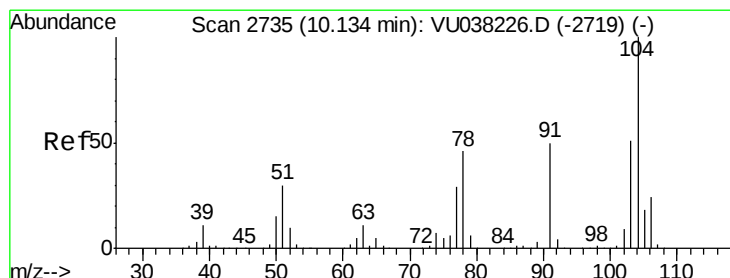
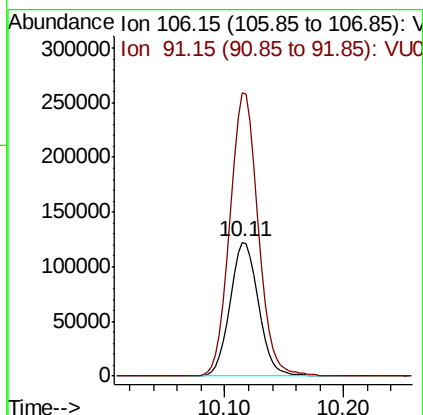
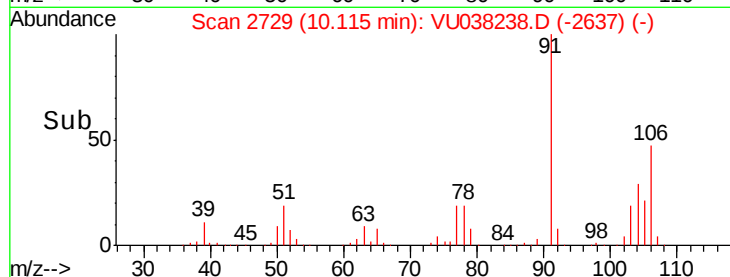
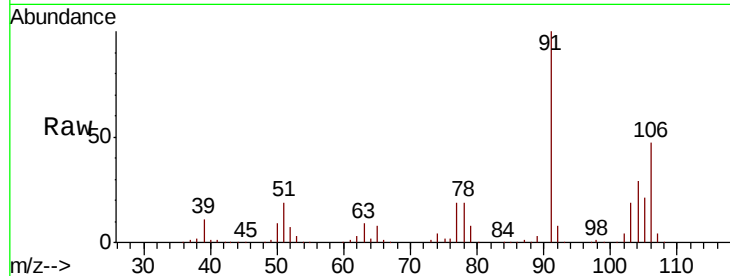




#54
o-Xylene
Concen: 4.985 ug/L
RT: 10.11 min Scan# 2729
Delta R.T. -0.00 min
Lab File: VU038238.D
Acq: 19 May 2020 16:35

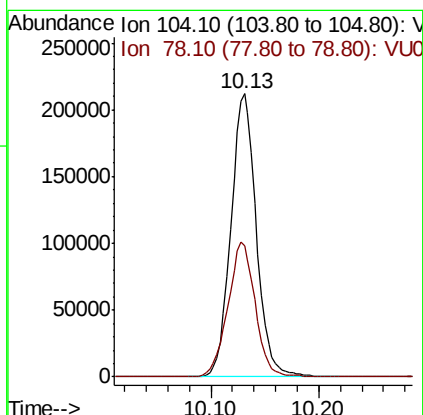
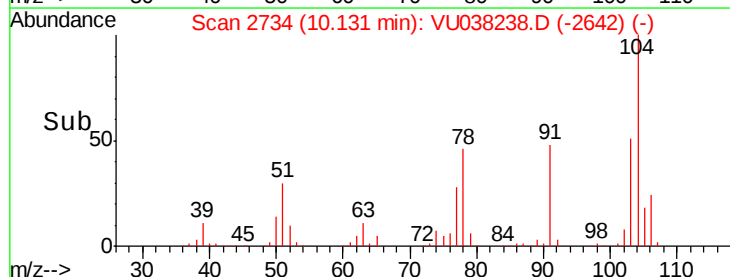
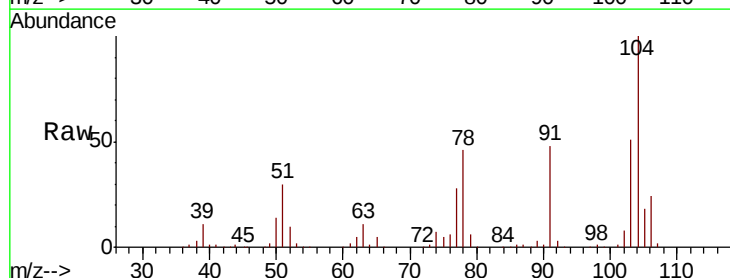
Instrument :
MSVOA_U
ClientSampled :

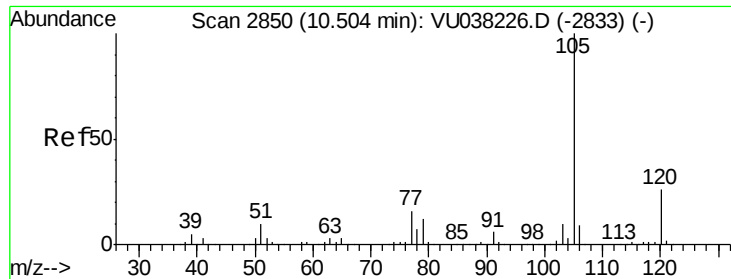
Tot Ion:106 Resp: 203078
Ion Ratio Lower Upper
106 100
91 211.4 148.5 275.9



#55
Styrene
Concen: 5.111 ug/L
RT: 10.13 min Scan# 2734
Delta R.T. -0.00 min
Lab File: VU038238.D
Acq: 19 May 2020 16:35

Tgt Ion:104 Resp: 349521
Ion Ratio Lower Upper
104 100
78 46.4 32.3 59.9





#56

Isopropylbenzene

Concen: 4.855 ug/L

RT: 10.50 min Scan# 2848

Delta R.T. -0.01 min

Lab File: VU038238.D

Acq: 19 May 2020 16:35

Instrument :

MSVOA_U

ClientSampleId :

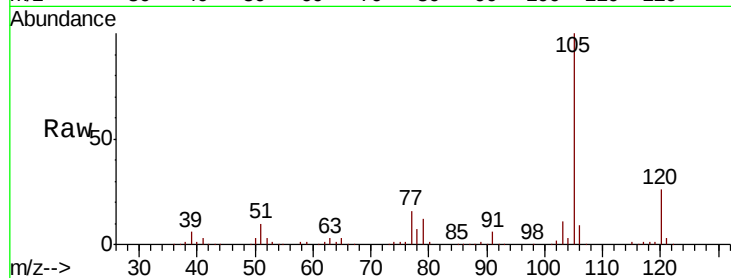
Tot Ion:105 Resp: 508041

Ion Ratio Lower Upper

105 100

120 26.3 21.0 31.6

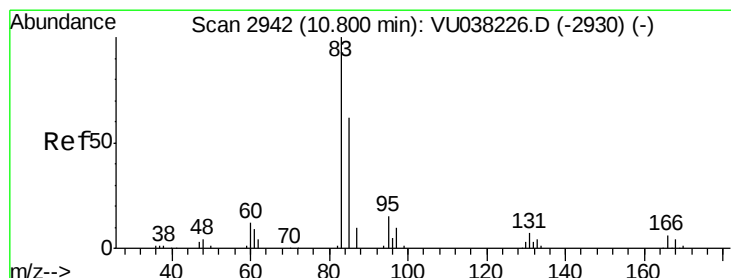
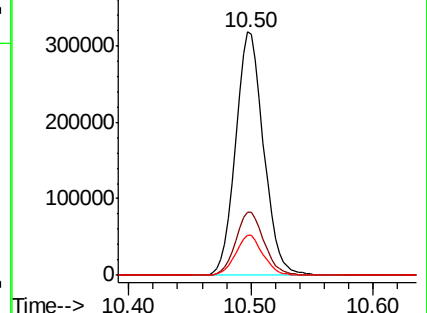
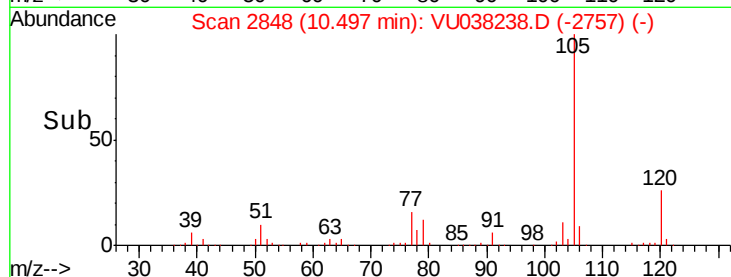
77 16.2 13.0 19.4



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: 5.515 ug/L

RT: 10.80 min Scan# 2941

Delta R.T. -0.00 min

Lab File: VU038238.D

Acq: 19 May 2020 16:35

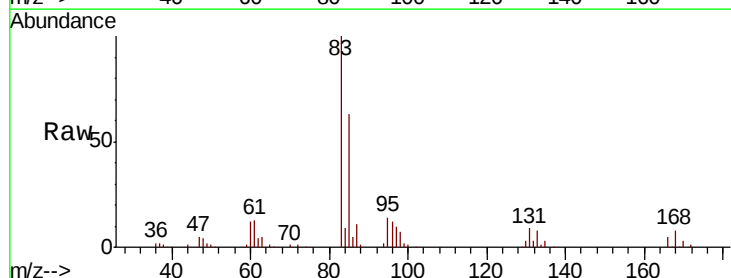
Tgt Ion: 83 Resp: 126909

Ion Ratio Lower Upper

83 100

85 63.2 47.0 87.2

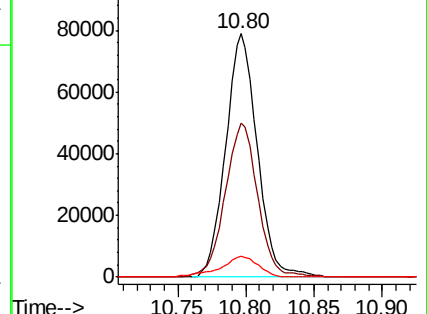
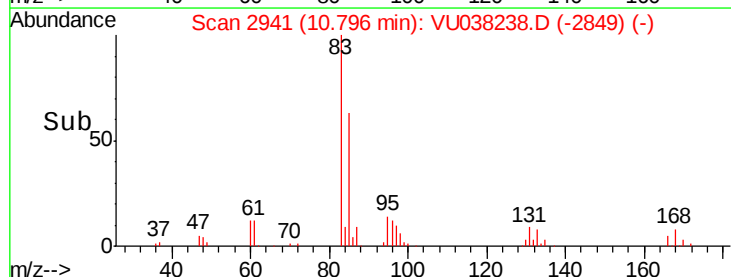
131 8.6 7.7 11.5

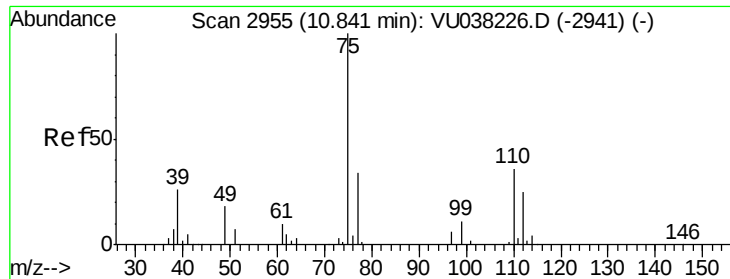


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

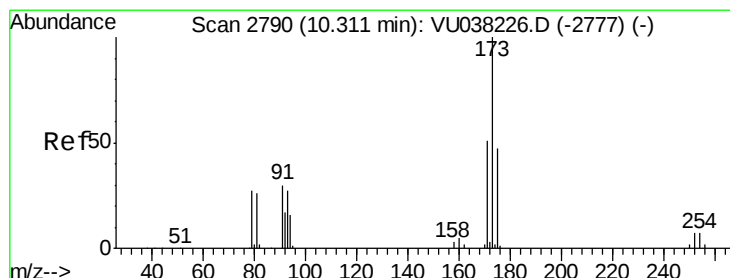
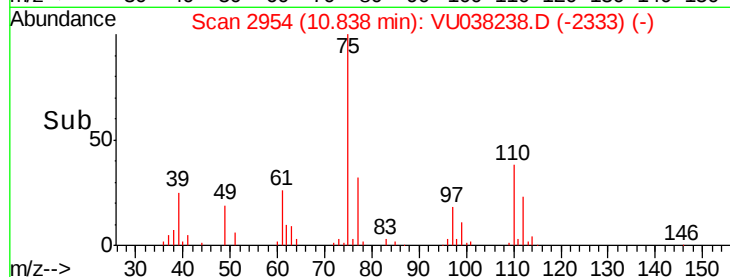
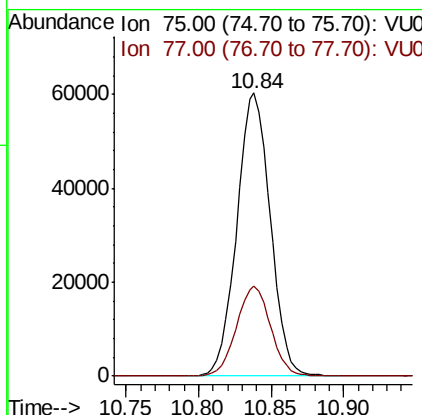
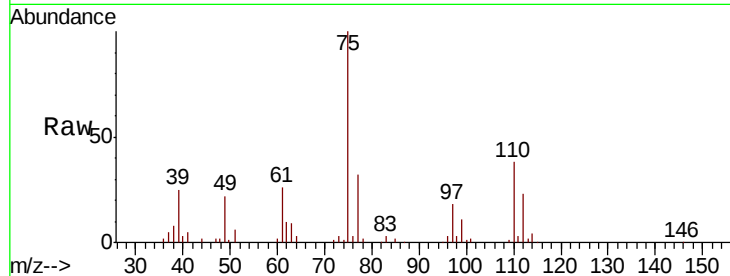




#59
 1,2,3-Trichloropropane
 Concen: 5.509 ug/L
 RT: 10.84 min Scan# 2954
 Delta R.T. -0.00 min
 Lab File: VU038238.D
 Acq: 19 May 2020 16:35

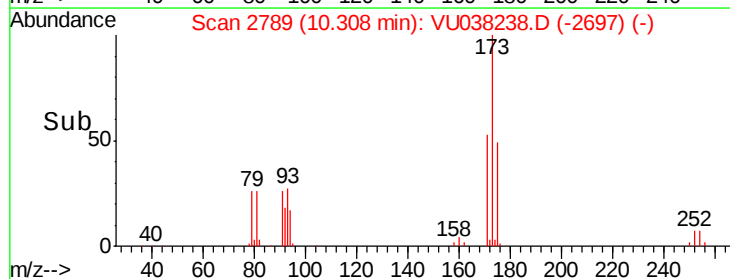
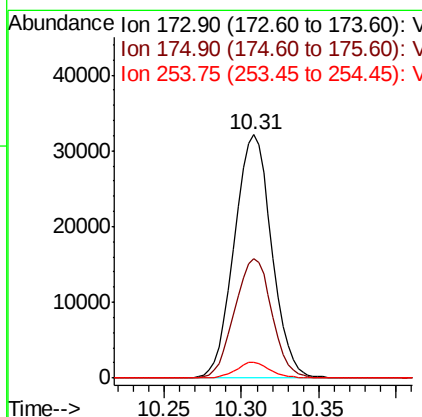
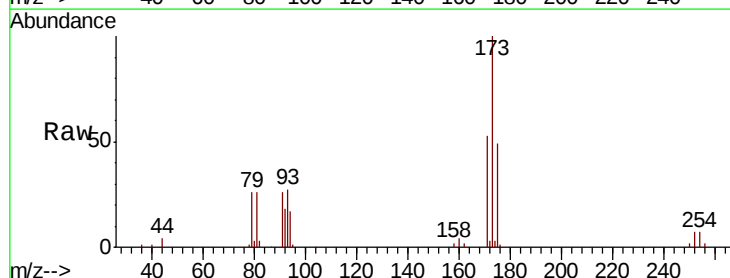
Instrument :
 MSVOA_U
 ClientSampleId :

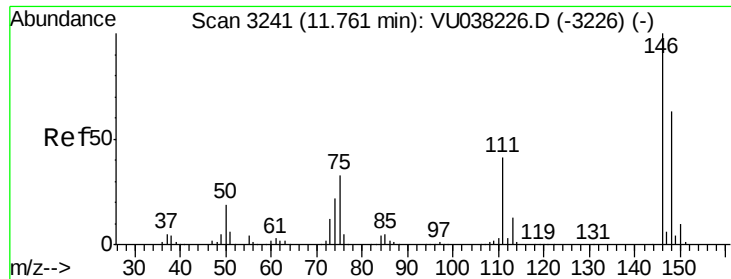
Tot Ion: 75 Resp: 96507
 Ion Ratio Lower Upper
 75 100
 77 32.4 25.4 38.0



#61
 Bromoform
 Concen: 5.350 ug/L
 RT: 10.31 min Scan# 2789
 Delta R.T. -0.00 min
 Lab File: VU038238.D
 Acq: 19 May 2020 16:35

Tgt Ion: 173 Resp: 53947
 Ion Ratio Lower Upper
 173 100
 175 48.9 39.5 59.3
 254 6.0 5.0 7.4

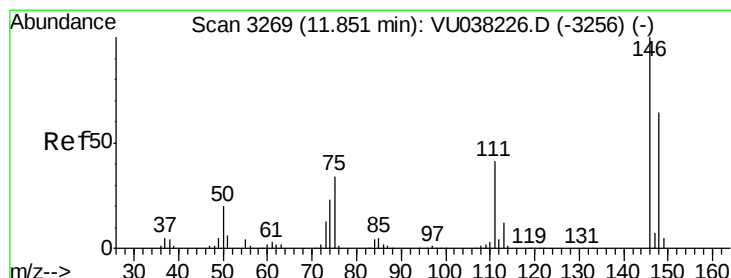
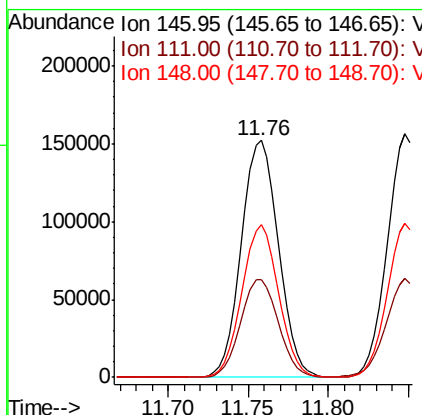
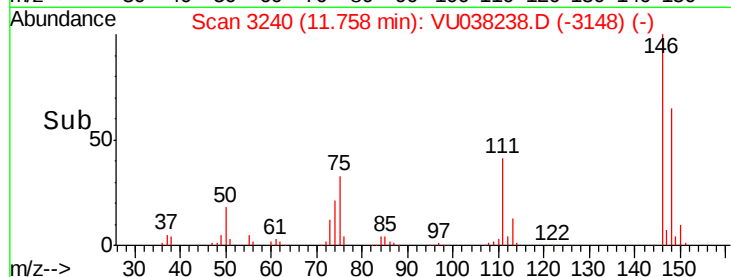
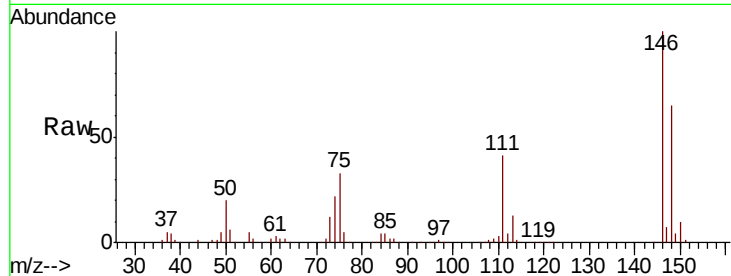




#62
 1,3-Dichlorobenzene
 Concen: 4.958 ug/L
 RT: 11.76 min Scan# 3240
 Delta R.T. -0.00 min
 Lab File: VU038238.D
 Acq: 19 May 2020 16:35

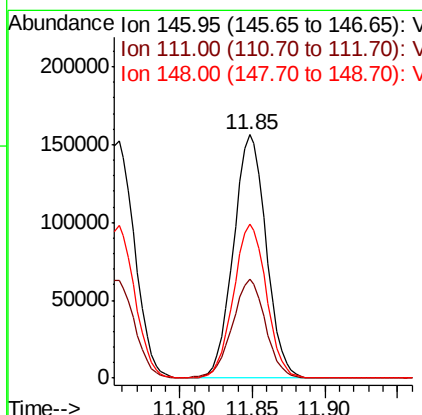
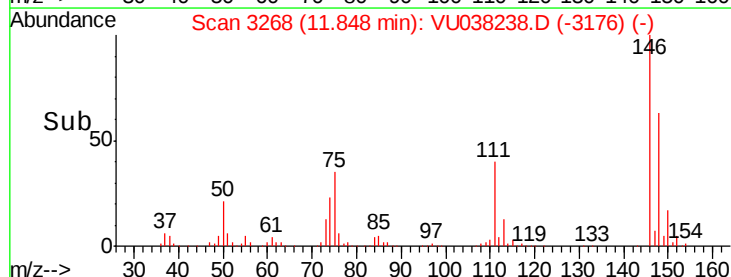
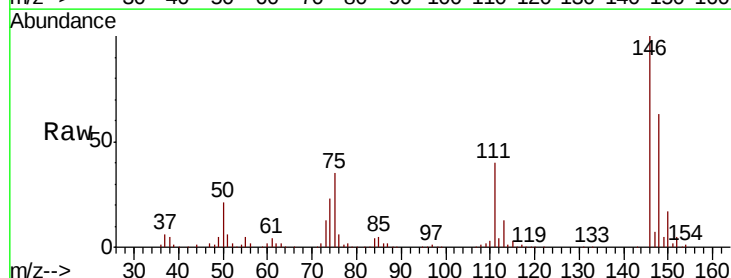
Instrument :
 MSVOA_U
 ClientSampleId :

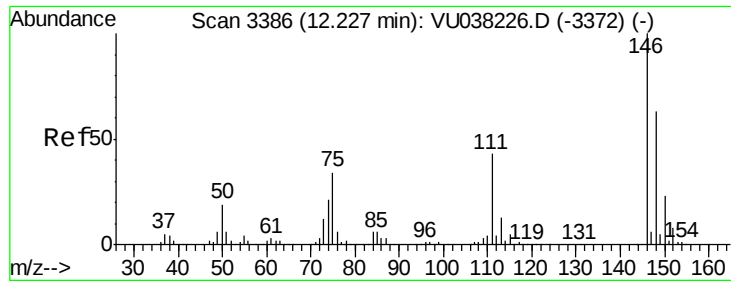
Tot Ion:146 Resp: 240654
 Ion Ratio Lower Upper
 146 100
 111 41.4 28.6 53.2
 148 64.5 45.2 84.0



#63
 1,4-Dichlorobenzene
 Concen: 4.975 ug/L
 RT: 11.85 min Scan# 3268
 Delta R.T. -0.00 min
 Lab File: VU038238.D
 Acq: 19 May 2020 16:35

Tgt Ion:146 Resp: 244678
 Ion Ratio Lower Upper
 146 100
 111 40.5 27.2 50.6
 148 63.1 43.8 81.3





#65

1,2-Dichlorobenzene

Concen: 5.091 ug/L

RT: 12.22 min Scan# 3385

Delta R.T. -0.00 min

Lab File: VU038238.D

Acq: 19 May 2020 16:35

Instrument :

MSVOA_U

ClientSampleId :

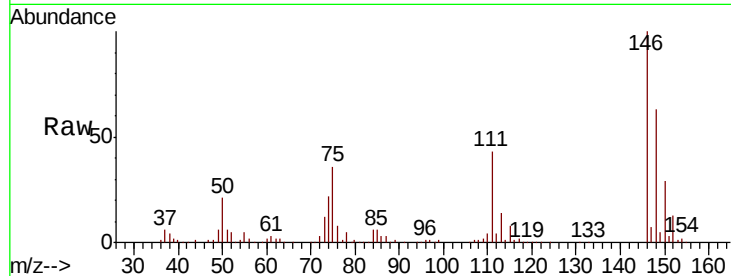
Tot Ion:146 Resp: 237711

Ion Ratio Lower Upper

146 100

111 43.1 35.3 52.9

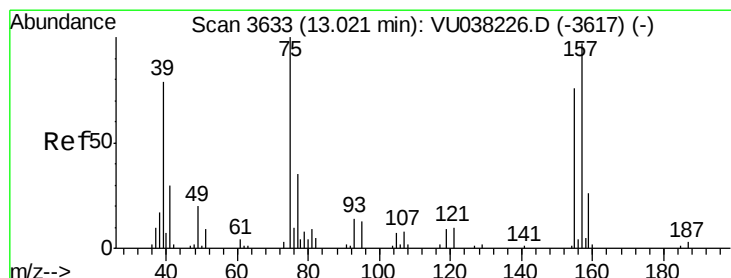
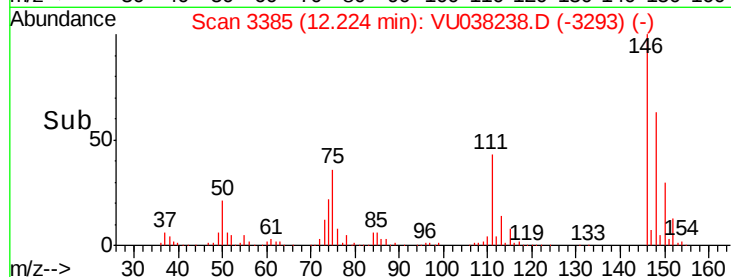
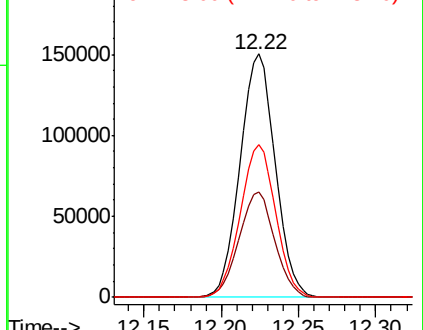
148 62.9 51.0 76.4



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: 5.345 ug/L

RT: 13.01 min Scan# 3631

Delta R.T. -0.01 min

Lab File: VU038238.D

Acq: 19 May 2020 16:35

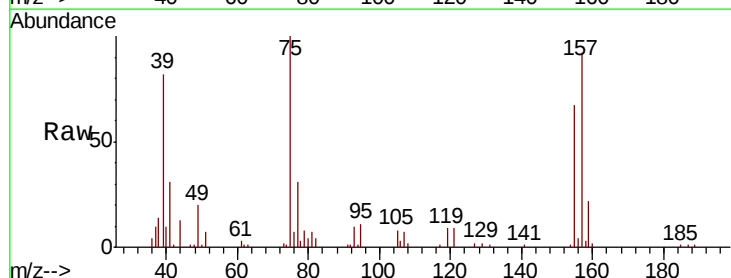
Tgt Ion: 75 Resp: 20400

Ion Ratio Lower Upper

75 100

155 67.0 58.2 87.2

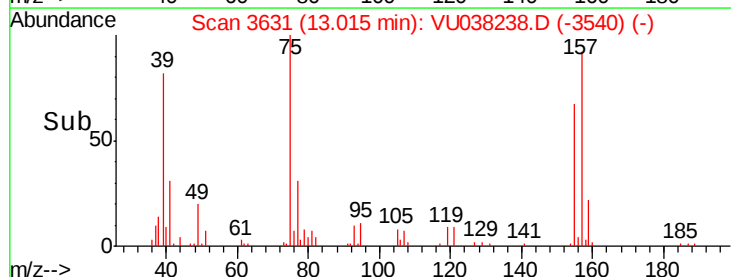
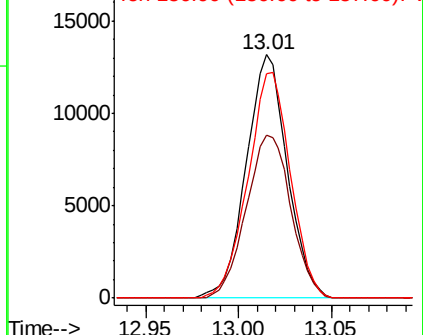
157 92.0 72.9 109.3

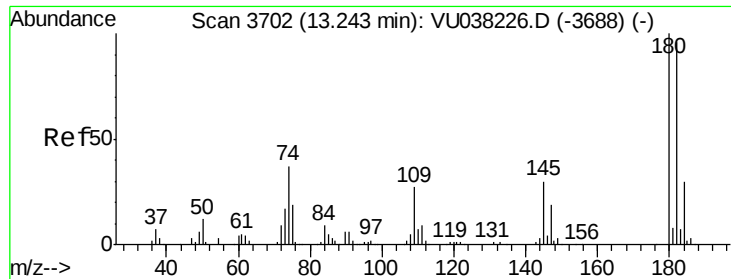


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

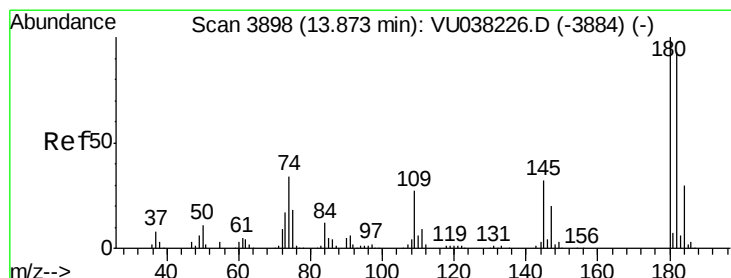
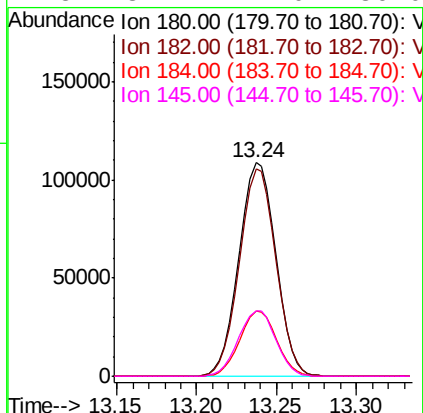
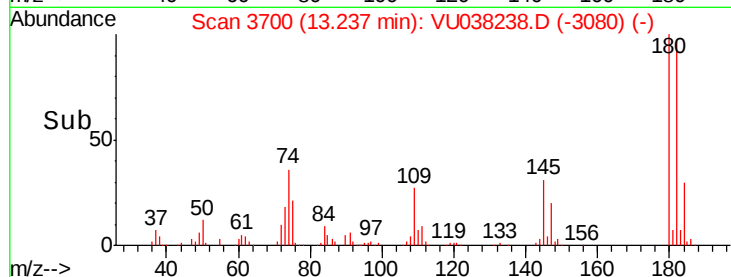
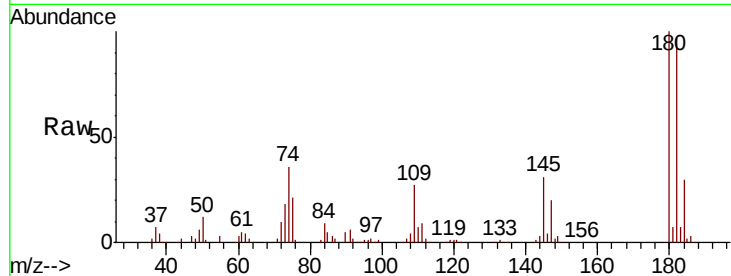




#67
 1,3,5-Trichlorobenzene
 Concen: 4.858 ug/L
 RT: 13.24 min Scan# 3700
 Delta R.T. -0.01 min
 Lab File: VU038238.D
 Acq: 19 May 2020 16:35

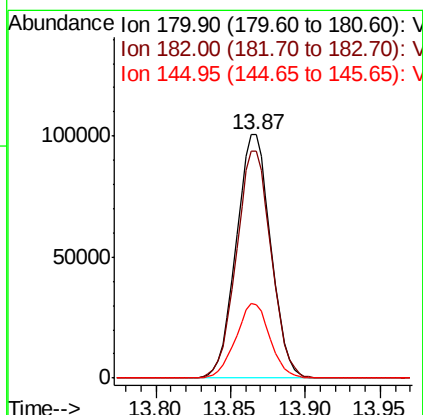
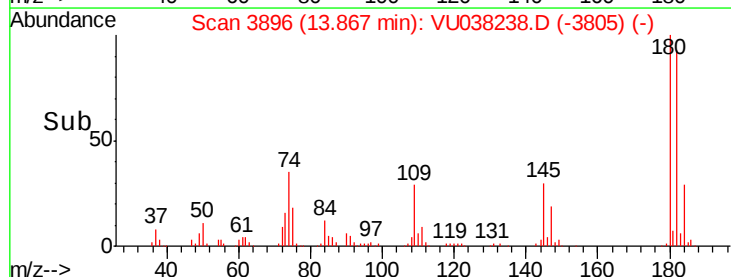
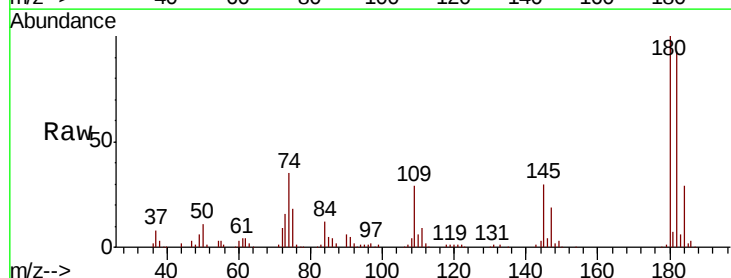
Instrument :
 MSVOA_U
 ClientSampleId :

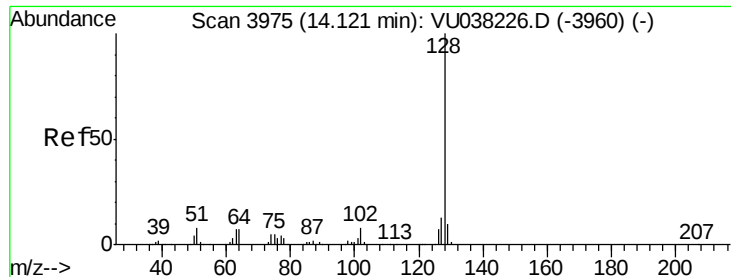
Tot Ion	Ratio	Lower	Upper
180	100		
182	95.9	77.4	116.2
184	30.4	24.2	36.2
145	31.1	24.0	36.0



#68
 1,2,4-trichlorobenzene
 Concen: 5.056 ug/L
 RT: 13.87 min Scan# 3896
 Delta R.T. -0.01 min
 Lab File: VU038238.D
 Acq: 19 May 2020 16:35

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.1	75.0	112.6
145	30.2	24.8	37.2





#69

Naphthalene

Concen: 5.181 ug/L

RT: 14.11 min Scan# 3972

Delta R.T. -0.01 min

Lab File: VU038238.D

Acq: 19 May 2020 16:35

Instrument :

MSVOA_U

ClientSampleId :

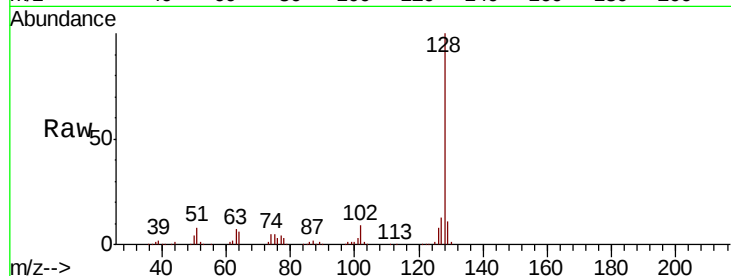
Tot Ion:128 Resp: 348451

Ion Ratio Lower Upper

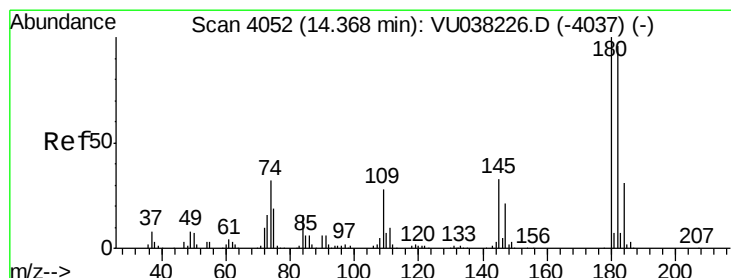
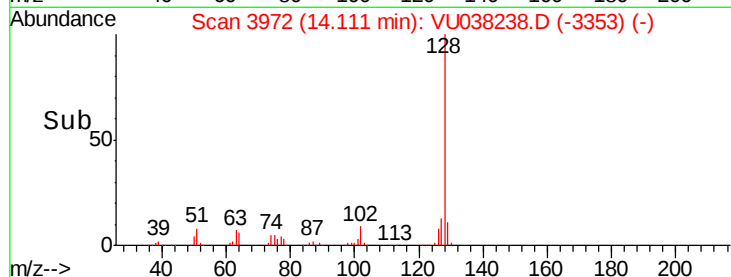
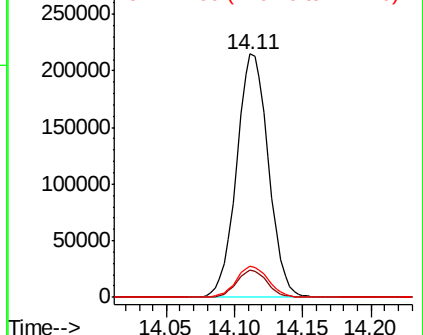
128 100

129 10.7 8.7 13.1

127 12.8 10.2 15.4



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: 5.133 ug/L

RT: 14.36 min Scan# 4049

Delta R.T. -0.01 min

Lab File: VU038238.D

Acq: 19 May 2020 16:35

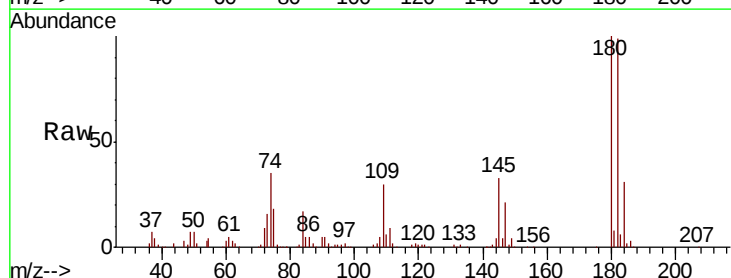
Tgt Ion:180 Resp: 152388

Ion Ratio Lower Upper

180 100

182 95.9 76.3 114.5

145 32.8 26.1 39.1



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

