

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU021820\
 Data File : VU036840.D
 Acq On : 18 Feb 2020 17:46
 Operator : JC/MD
 Sample : VSTDCCC005EC
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Feb 19 04:57:02 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR021220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Feb 19 04:53:41 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	112910	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	105286	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	48624	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	34524	3.56	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	71.20%
7) Chloroethane-d5	1.93	69	35527	4.21	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	84.20%
11) 1,1-Dichloroethene-d2	2.59	63	64972	4.00	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	80.00%
20) 2-Butanone-d5	4.67	46	116539	57.23	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	114.46%
24) Chloroform-d	5.11	84	74342	4.96	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.20%
26) 1,2-Dichloroethane-d4	5.74	65	41965	4.89	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.80%
32) Benzene-d6	5.76	84	149113	4.66	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.20%
36) 1,2-Dichloropropane-d6	6.73	67	50161	4.94	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	98.80%
41) Toluene-d8	7.92	98	133188	4.47	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.40%
43) trans-1,3-Dichloropropene-	8.21	79	18169	4.60	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	92.00%
46) 2-Hexanone-d5	8.66	63	97822	54.24	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	108.48%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	41326	5.16	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	103.20%
64) 1,2-Dichlorobenzene-d4	12.21	152	45054	4.64	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	92.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	37268	4.998	ug/L 100
3) Chloromethane	1.54	50	42055	5.419	ug/L 100
5) Vinyl chloride	1.62	62	46028	5.077	ug/L 99
6) Bromomethane	1.87	94	19661	3.609	ug/L 91
8) Chloroethane	1.95	64	30248	4.776	ug/L 98
9) Trichlorofluoromethane	2.16	101	59013	4.948	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	37589	4.935	ug/L 99
12) 1,1-Dichloroethene	2.60	96	33894	4.935	ug/L 96
13) Acetone	2.66	43	105049	40.344	ug/L 99
14) Carbon disulfide	2.82	76	77991	4.706	ug/L 100
15) Methyl Acetate	2.98	43	17980	5.204	ug/L 100
16) Methylene chloride	3.08	84	43030	3.717	ug/L 96
17) Methyl tert-butyl Ether	3.41	73	103349	5.081	ug/L 99
18) trans-1,2-Dichloroethene	3.39	96	35121	4.955	ug/L 99
19) 1,1-Dichloroethane	3.91	63	77173	5.192	ug/L 99
21) 2-Butanone	4.75	43	138689	45.788	ug/L 98
22) cis-1,2-Dichloroethene	4.71	96	45207	5.271	ug/L 100

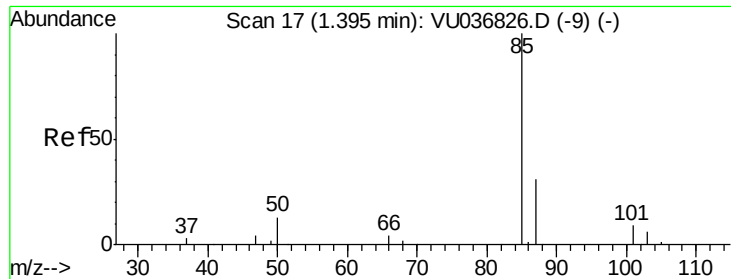
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU021820\
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 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Feb 19 04:53:41 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	17522	5.139	ug/L	98
25) Chloroform	5.13	83	78738	4.961	ug/L	100
27) 1,2-Dichloroethane	5.84	62	51286	5.069	ug/L	100
29) 1,1,1-Trichloroethane	5.36	97	59211	5.121	ug/L	100
30) Cyclohexane	5.43	56	61612	5.016	ug/L	98
31) Carbon tetrachloride	5.56	117	45606	4.889	ug/L	98
33) Benzene	5.81	78	170228	5.242	ug/L	100
34) Trichloroethene	6.57	95	42941	5.192	ug/L	97
35) Methylcyclohexane	6.79	83	64913	4.946	ug/L	98
37) 1,2-Dichloropropane	6.83	63	47527	5.360	ug/L	98
38) Bromodichloromethane	7.14	83	53721	5.077	ug/L	96
39) cis-1,3-Dichloropropene	7.64	75	65487	5.104	ug/L	98
40) 4-Methyl-2-pentanone	7.82	43	295946	51.721	ug/L	99
42) Toluene	8.00	91	182753	5.240	ug/L	96
44) trans-1,3-Dichloropropene	8.24	75	51612	5.147	ug/L	97
45) 1,1,2-Trichloroethane	8.43	97	31953	5.180	ug/L	99
47) Tetrachloroethene	8.58	164	26446	4.700	ug/L	92
48) 2-Hexanone	8.71	43	231564	47.290	ug/L	99
49) Dibromochloromethane	8.83	129	32510	5.096	ug/L	94
50) 1,2-Dibromoethane	8.95	107	29162	5.234	ug/L	99
51) Chlorobenzene	9.47	112	111179	5.153	ug/L	98
52) Ethylbenzene	9.59	91	199677	5.126	ug/L	99
53) m,p-Xylene	9.72	106	73844	5.151	ug/L	93
54) o-Xylene	10.12	106	71803	5.100	ug/L	96
55) Styrene	10.13	104	121802	5.132	ug/L	99
56) Isopropylbenzene	10.50	105	194119	5.152	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.80	83	43202	5.350	ug/L	97
59) 1,2,3-Trichloropropane	10.84	75	29973	5.120	ug/L	99
61) Bromoform	10.31	173	16595	4.954	ug/L	99
62) 1,3-Dichlorobenzene	11.76	146	83637	4.992	ug/L	100
63) 1,4-Dichlorobenzene	11.85	146	82341	4.958	ug/L	99
65) 1,2-Dichlorobenzene	12.23	146	81082	5.020	ug/L	100
66) 1,2-Dibromo-3-chloropropan	13.02	75	5957	4.943	ug/L	90
67) 1,3,5-Trichlorobenzene	13.24	180	60357	5.118	ug/L	99
68) 1,2,4-trichlorobenzene	13.87	180	44668	5.022	ug/L	99
69) Naphthalene	14.12	128	81272	5.044	ug/L	99
70) 1,2,3-Trichlorobenzene	14.37	180	42731	5.354	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 4.998 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU036840.D

Acq: 18 Feb 2020 17:46

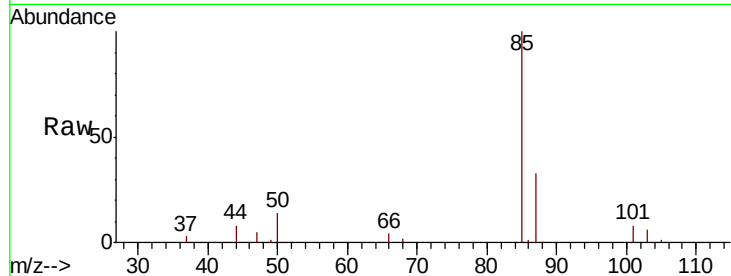
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 37268

Ion Ratio Lower Upper

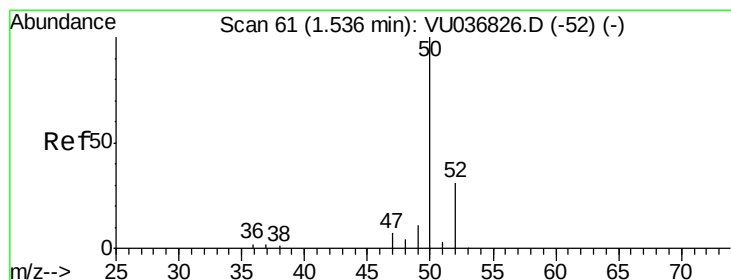
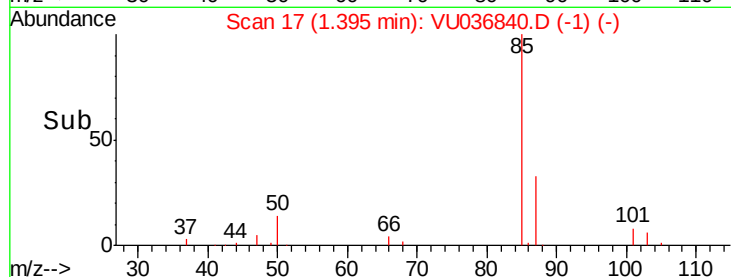
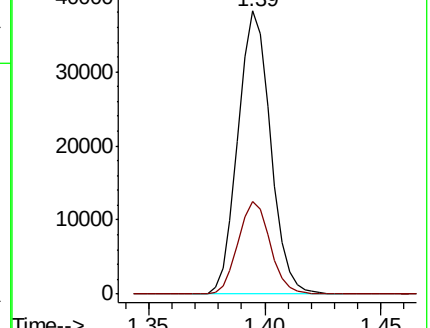
85 100

87 32.1 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VU036826.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU036826.D (-9) (-)



#3

Chloromethane

Concen: 5.419 ug/L

RT: 1.54 min Scan# 61

Delta R.T. -0.00 min

Lab File: VU036840.D

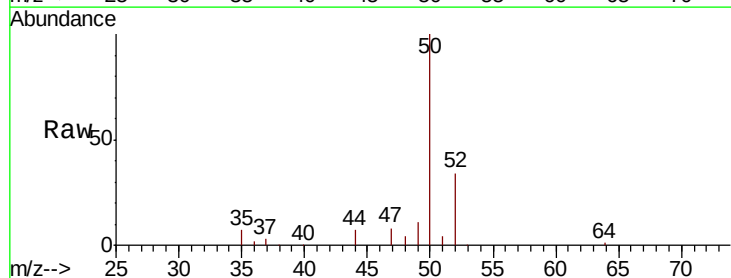
Acq: 18 Feb 2020 17:46

Tgt Ion: 50 Resp: 42055

Ion Ratio Lower Upper

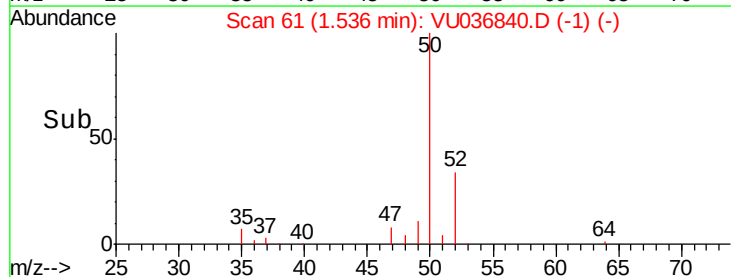
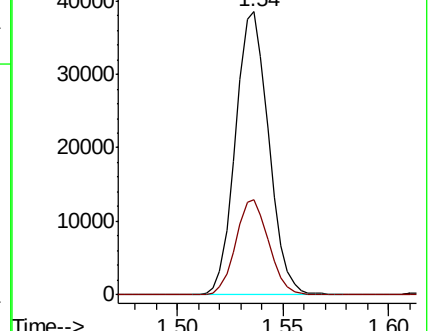
50 100

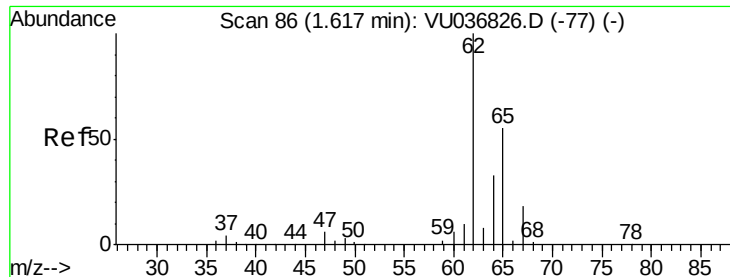
52 33.8 23.8 44.2



Abundance Ion 50.05 (49.75 to 50.75): VU036826.D (-52) (-)

Ion 52.05 (51.75 to 52.75): VU036826.D (-52) (-)





#5

Vinyl chloride

Concen: 5.077 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU036840.D

Acq: 18 Feb 2020 17:46

Instrument :

MSVOA_U

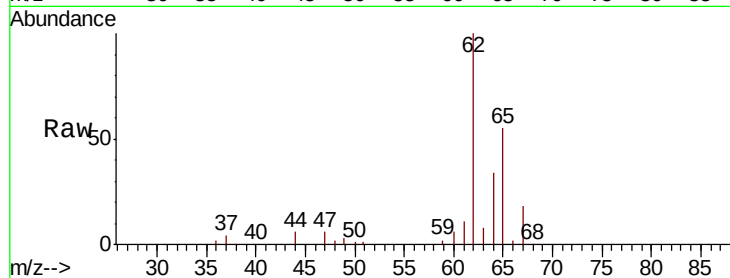
ClientSampled :

Tot Ion: 62 Resp: 46028

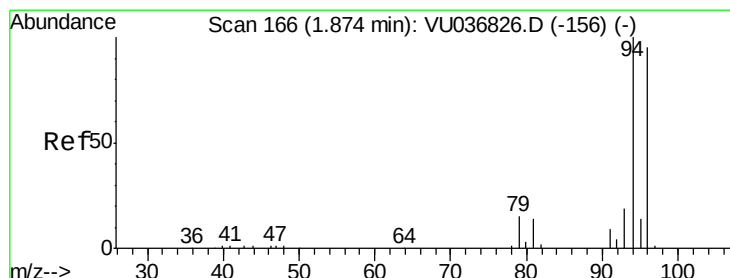
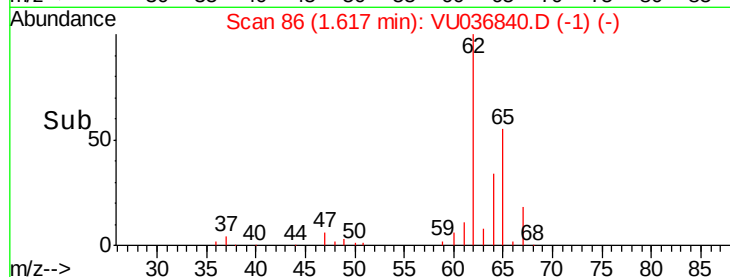
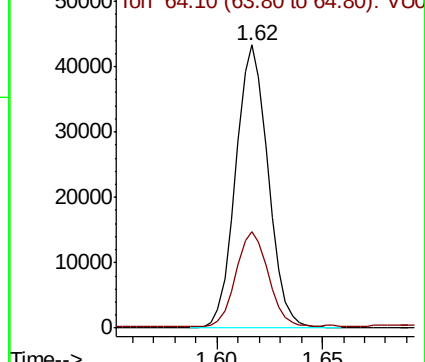
Ion Ratio Lower Upper

62 100

64 33.9 24.1 44.7



Abundance Ion 62.00 (61.70 to 62.70): VU036840.D (-1) (-)



#6

Bromomethane

Concen: 3.609 ug/L

RT: 1.87 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU036840.D

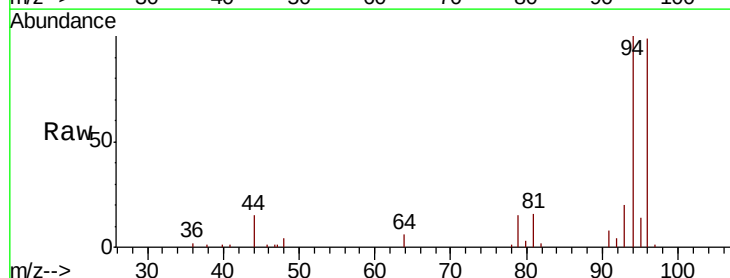
Acq: 18 Feb 2020 17:46

Tgt Ion: 94 Resp: 19661

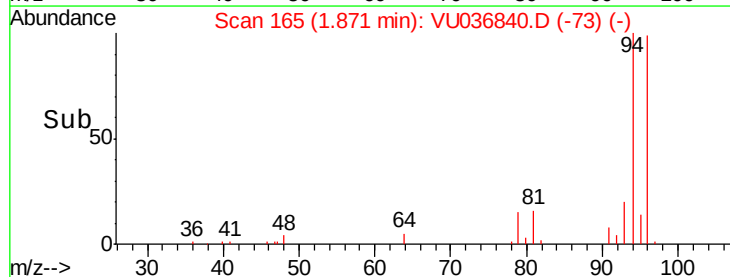
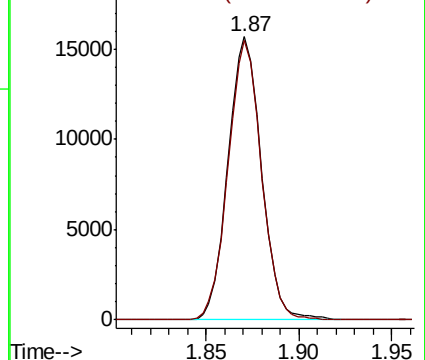
Ion Ratio Lower Upper

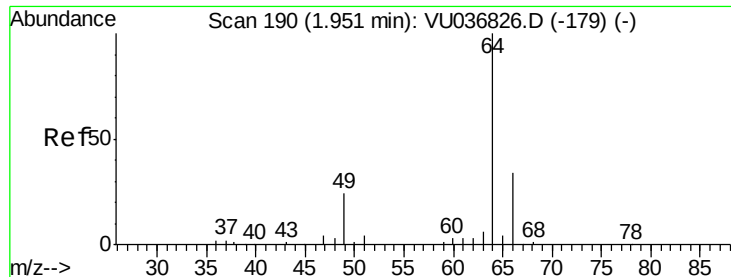
94 100

96 98.6 63.3 117.7



Abundance Ion 94.00 (93.70 to 94.70): VU036840.D (-73) (-)





#8

Chloroethane

Concen: 4.776 ug/L

RT: 1.95 min Scan# 189

Delta R.T. -0.00 min

Lab File: VU036840.D

Acq: 18 Feb 2020 17:46

Instrument :

MSVOA_U

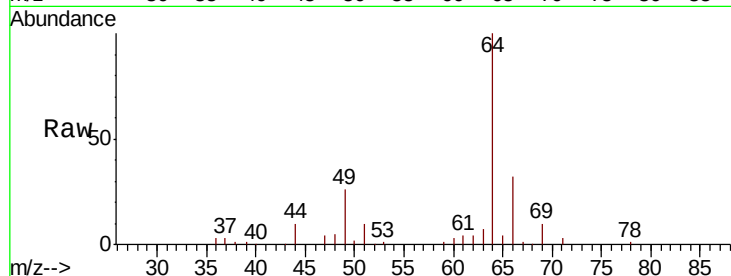
ClientSampleId :

Tot Ion: 64 Resp: 30248

Ion Ratio Lower Upper

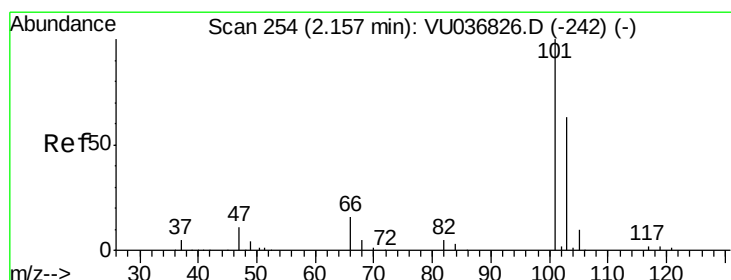
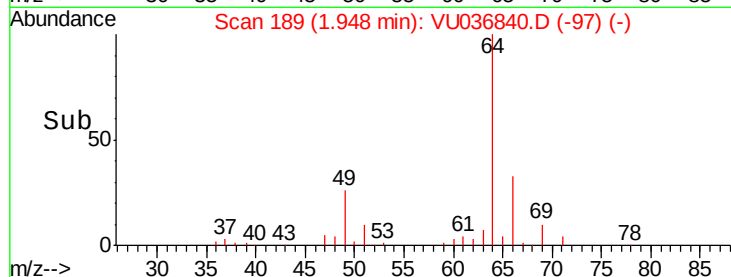
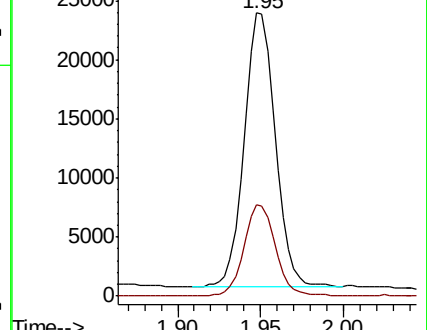
64 100

66 32.2 21.8 40.6



Abundance Ion 64.10 (63.80 to 64.80): VU036840.D (-179) (-)

Ion 66.05 (65.75 to 66.75): VU036840.D (-179) (-)



#9

Trichlorofluoromethane

Concen: 4.948 ug/L

RT: 2.16 min Scan# 254

Delta R.T. -0.00 min

Lab File: VU036840.D

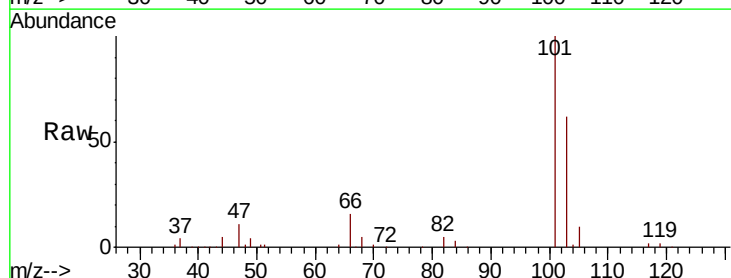
Acq: 18 Feb 2020 17:46

Tgt Ion:101 Resp: 59013

Ion Ratio Lower Upper

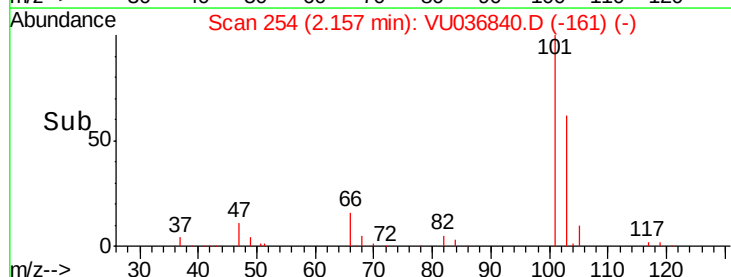
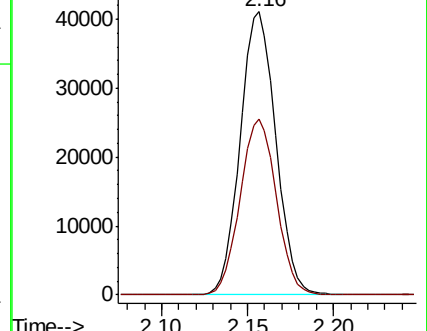
101 100

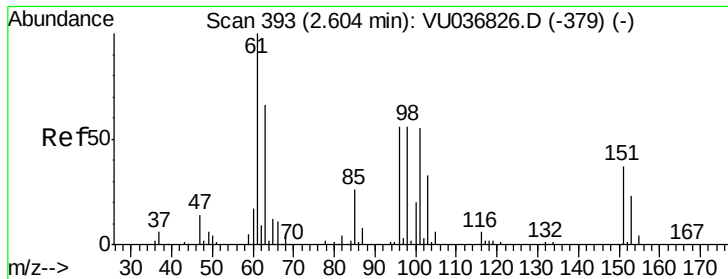
103 62.9 51.0 76.6



Abundance Ion 101.00 (100.70 to 101.70): VU036840.D (-161) (-)

Ion 103.00 (102.70 to 103.70): VU036840.D (-161) (-)





#10

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

Concen: 4.935 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU036840.D

Acq: 18 Feb 2020 17:46

Instrument :

MSVOA_U

ClientSampleId :

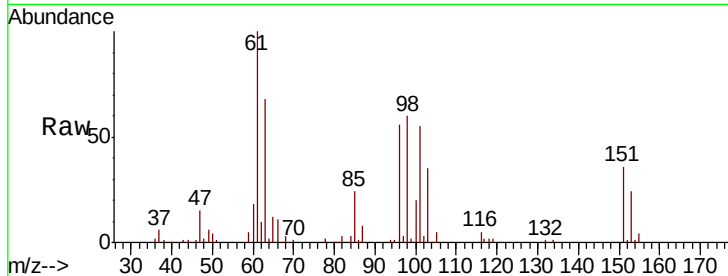
Tot Ion:101 Resp: 37589

Ion Ratio Lower Upper

101 100

85 44.3 36.4 54.6

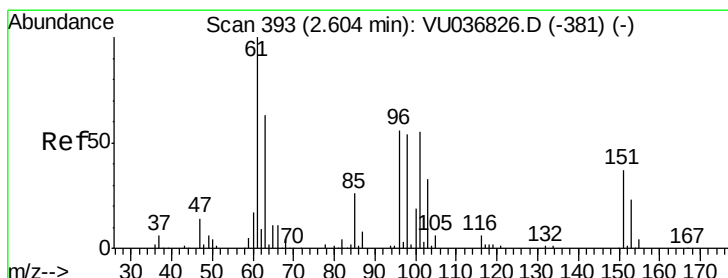
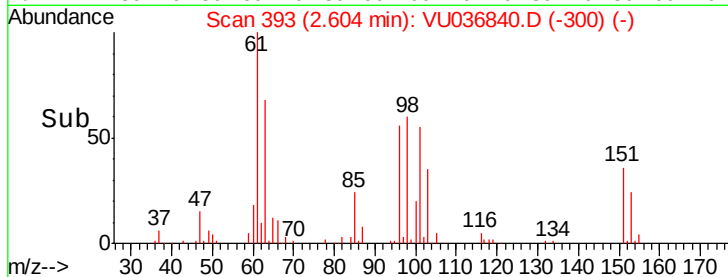
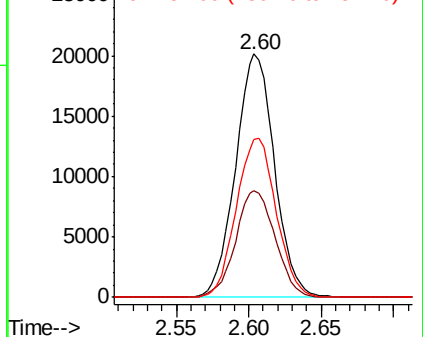
151 66.7 54.0 81.0



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: 4.935 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU036840.D

Acq: 18 Feb 2020 17:46

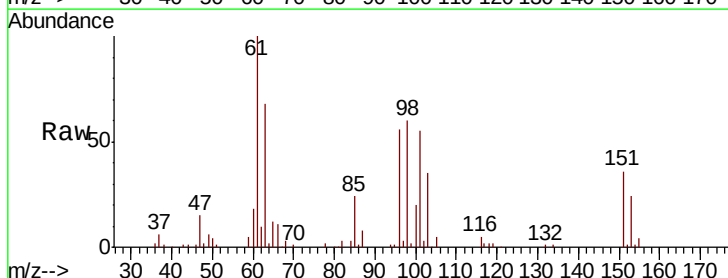
Tgt Ion: 96 Resp: 33894

Ion Ratio Lower Upper

96 100

61 177.2 126.4 234.8

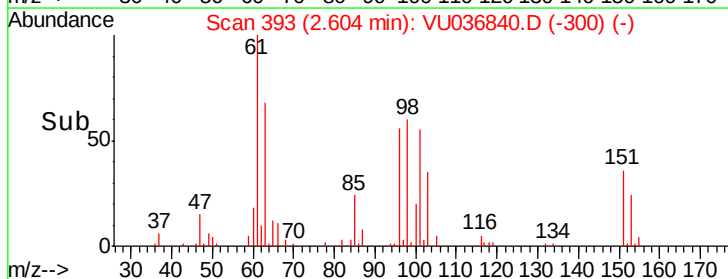
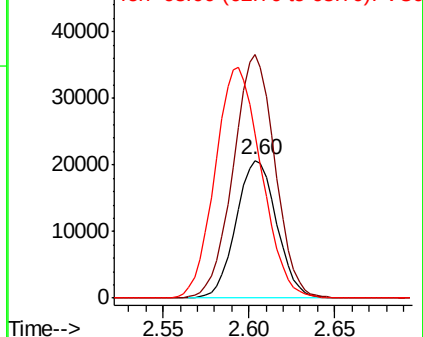
63 119.9 89.5 166.3

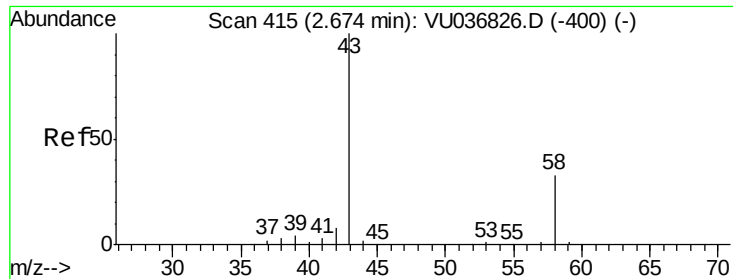


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 40.344 ug/L

RT: 2.66 min Scan# 410

Delta R.T. -0.02 min

Lab File: VU036840.D

Acq: 18 Feb 2020 17:46

Instrument :

MSVOA_U

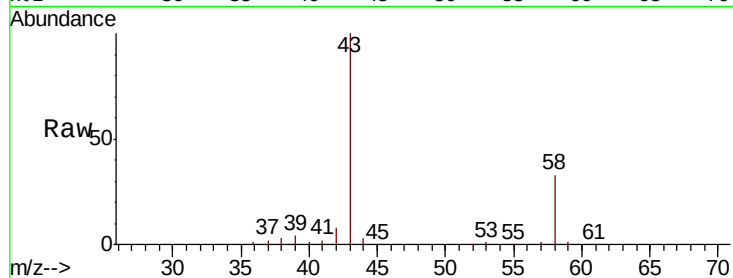
ClientSampleId :

Tot Ion: 43 Resp: 105049

Ion Ratio Lower Upper

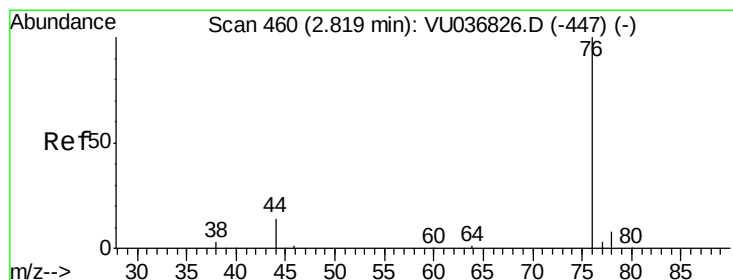
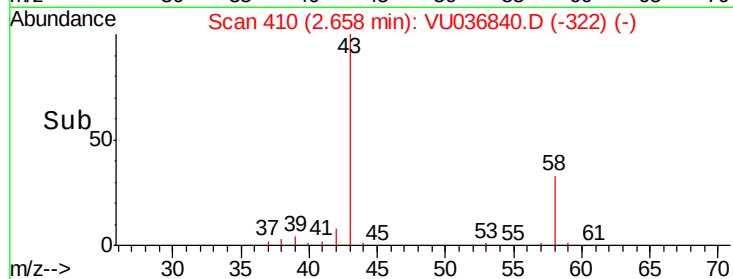
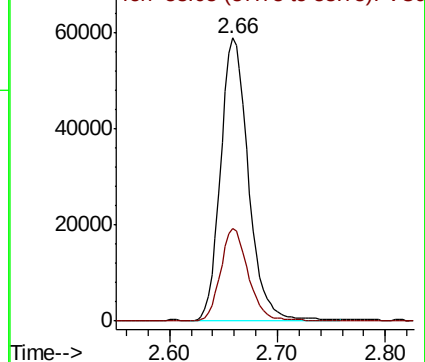
43 100

58 32.8 0.0 64.2



Abundance Ion 43.05 (42.75 to 43.75): VU036826.D (-400) (-)

Ion 58.05 (57.75 to 58.75): VU036826.D (-400) (-)



#14

Carbon disulfide

Concen: 4.706 ug/L

RT: 2.82 min Scan# 460

Delta R.T. -0.00 min

Lab File: VU036840.D

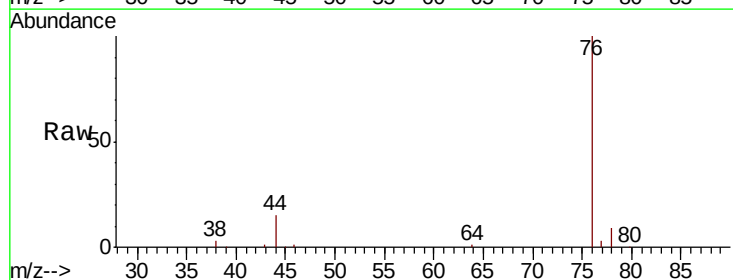
Acq: 18 Feb 2020 17:46

Tgt Ion: 76 Resp: 77991

Ion Ratio Lower Upper

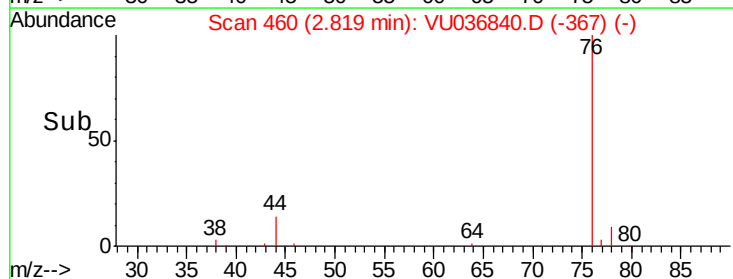
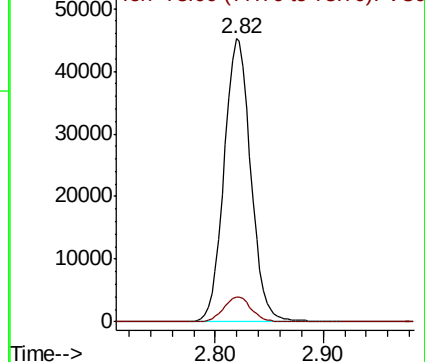
76 100

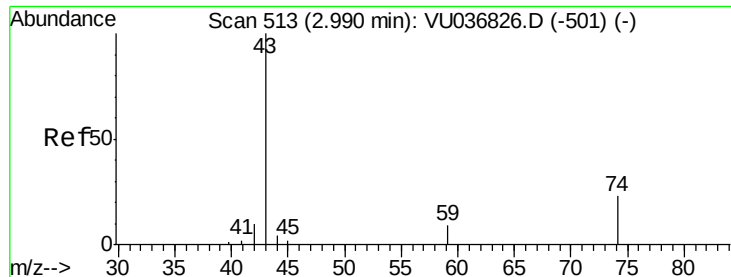
78 9.0 7.2 10.8



Abundance Ion 76.05 (75.75 to 76.75): VU036826.D (-447) (-)

Ion 78.00 (77.70 to 78.70): VU036826.D (-447) (-)

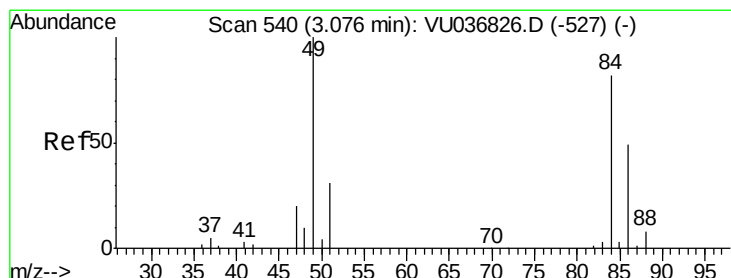
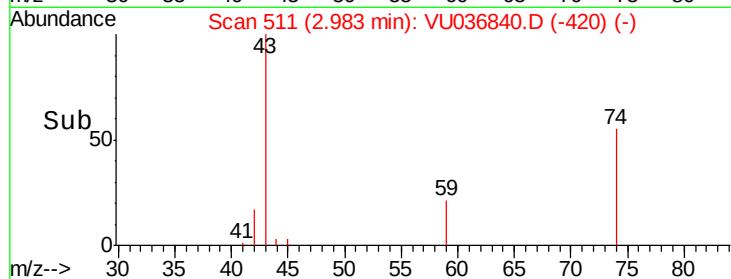
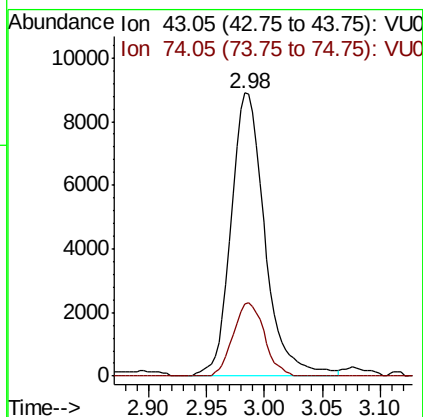
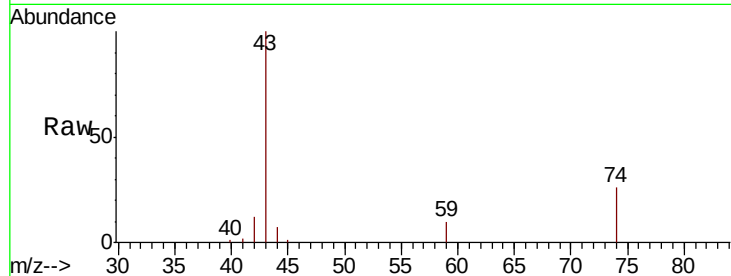




#15
Methvl Acetate
Concen: 5.204 ug/L
RT: 2.98 min Scan# 511
Delta R.T. -0.01 min
Lab File: VU036840.D
Acq: 18 Feb 2020 17:46

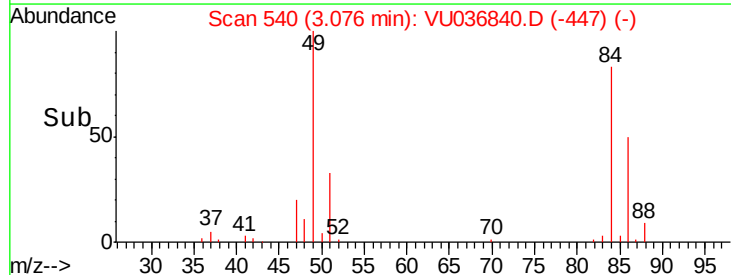
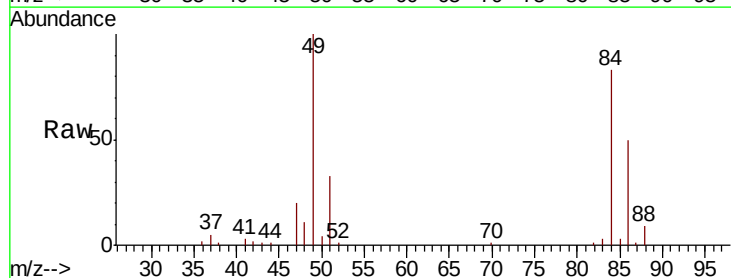
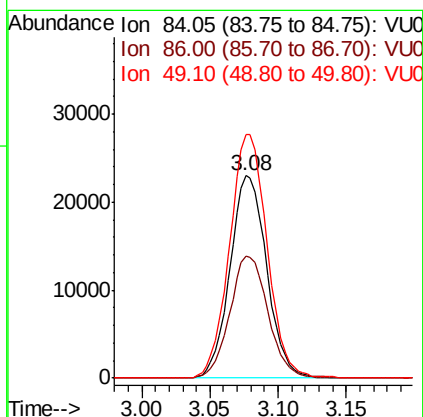
Instrument :
MSVOA_U
ClientSampleId :

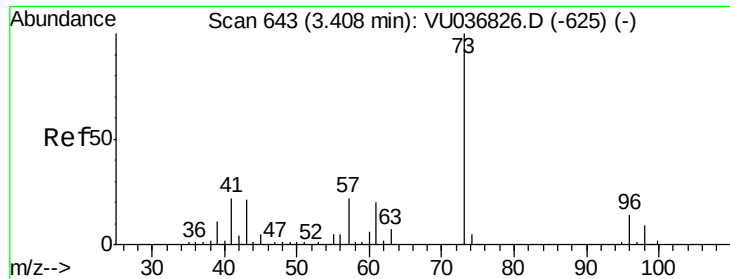
Tot Ion: 43 Resp: 17980
Ion Ratio Lower Upper
43 100
74 23.8 19.0 28.4



#16
Methylene chloride
Concen: 3.717 ug/L
RT: 3.08 min Scan# 540
Delta R.T. -0.00 min
Lab File: VU036840.D
Acq: 18 Feb 2020 17:46

Tgt Ion: 84 Resp: 43030
Ion Ratio Lower Upper
84 100
86 60.4 44.7 82.9
49 120.2 86.7 160.9

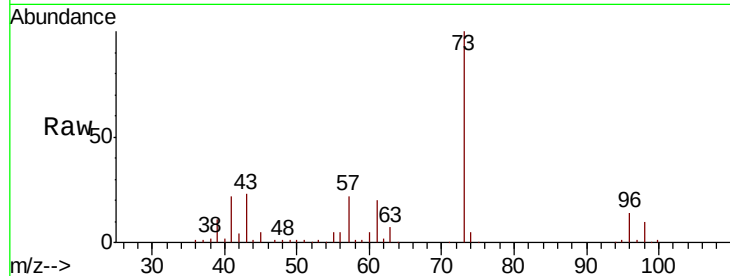




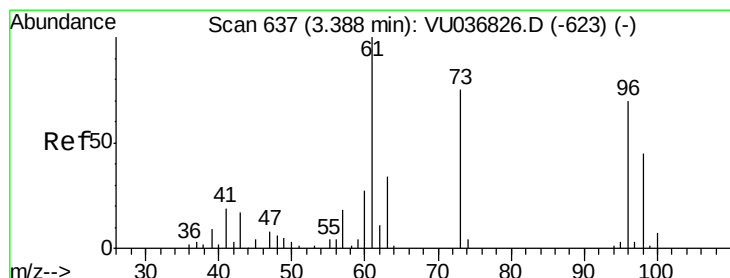
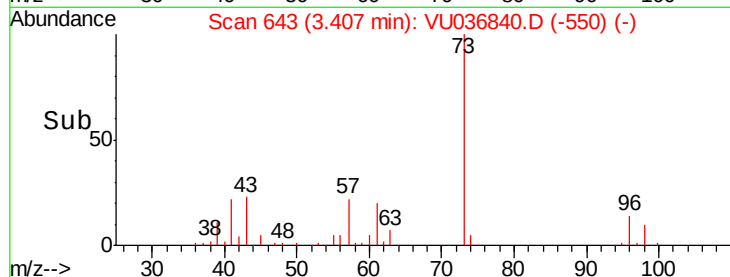
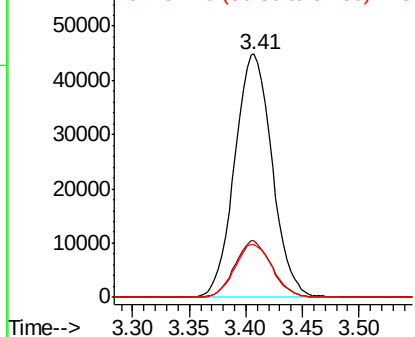
#17
Methyl tert-butyl Ether
Concen: 5.081 ug/L
RT: 3.41 min Scan# 643
Delta R.T. -0.00 min
Lab File: VU036840.D
Acq: 18 Feb 2020 17:46

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 73 Resp: 103349
Ion Ratio Lower Upper
73 100
43 22.8 18.7 28.1
57 22.0 17.9 26.9

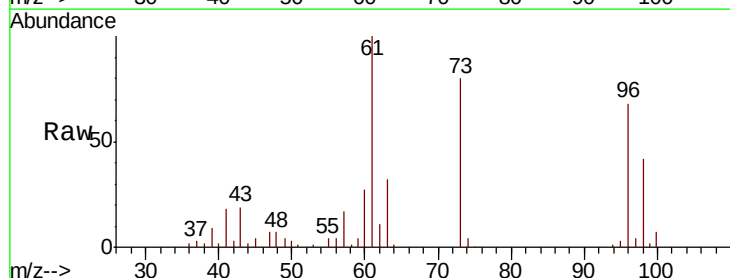


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

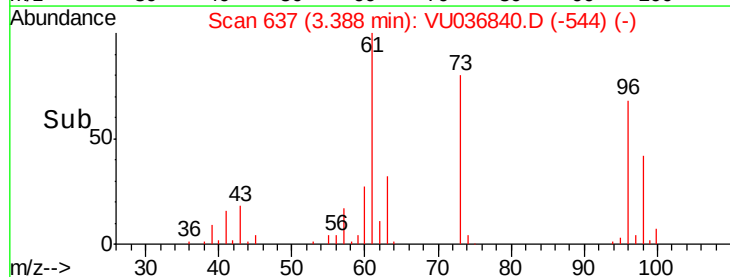
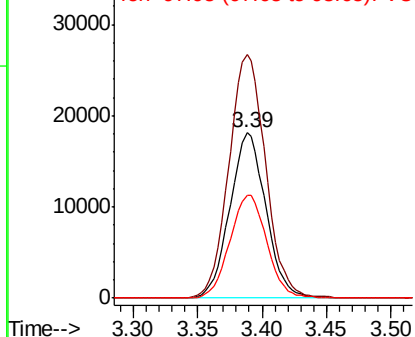


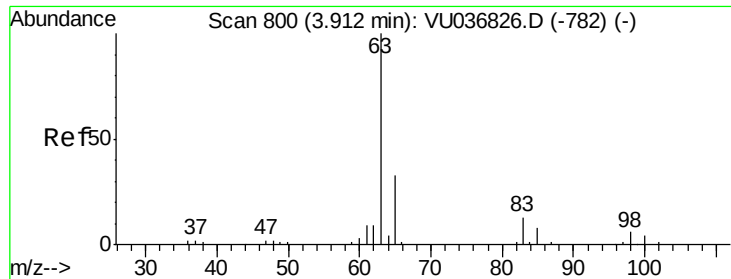
#18
trans-1,2-Dichloroethene
Concen: 4.955 ug/L
RT: 3.39 min Scan# 637
Delta R.T. -0.00 min
Lab File: VU036840.D
Acq: 18 Feb 2020 17:46

Tgt Ion: 96 Resp: 35121
Ion Ratio Lower Upper
96 100
61 147.6 102.6 190.5
98 62.3 44.5 82.7



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

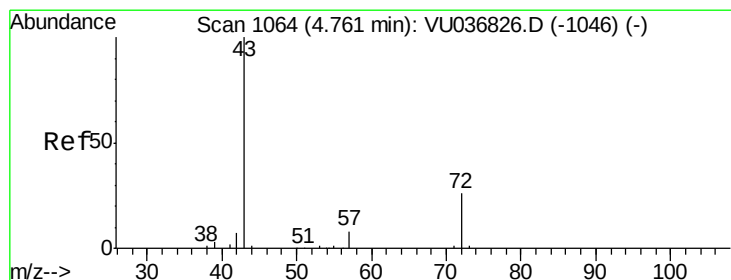
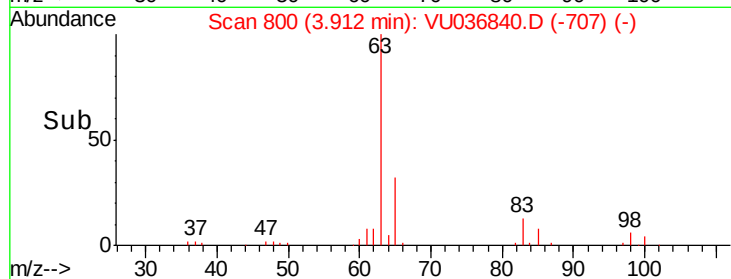
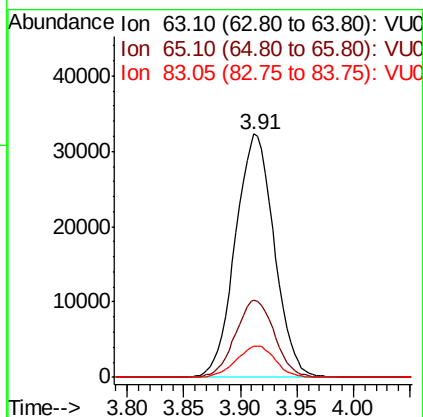
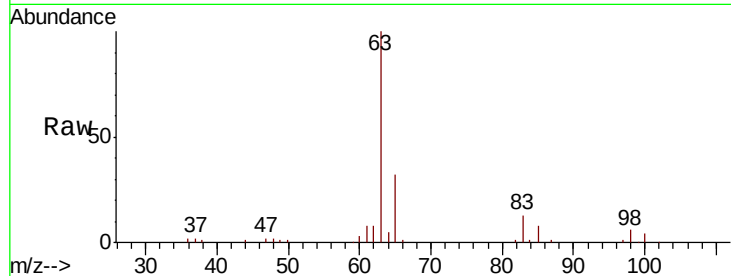




#19
 1,1-Dichloroethane
 Concen: 5.192 ug/L
 RT: 3.91 min Scan# 800
 Delta R.T. -0.00 min
 Lab File: VU036840.D
 Acq: 18 Feb 2020 17:46

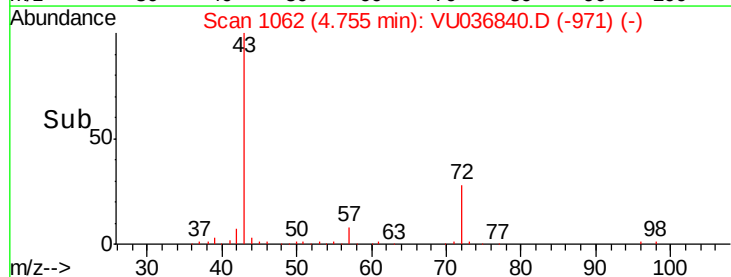
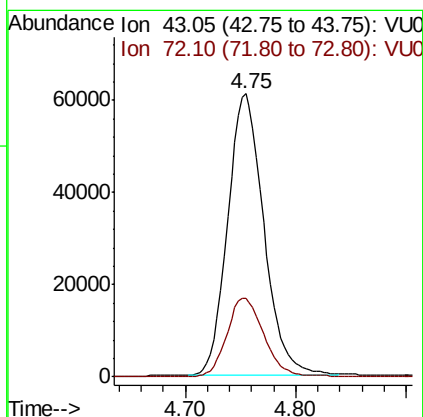
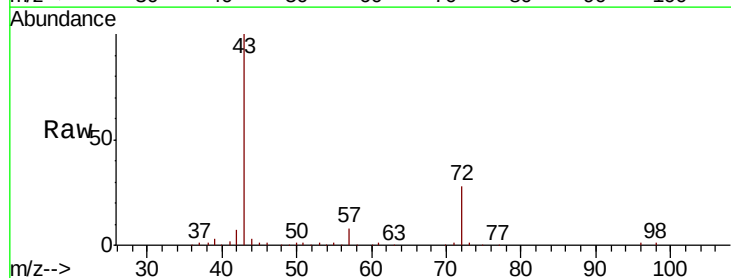
Instrument :
 MSVOA_U
 ClientSampleId :

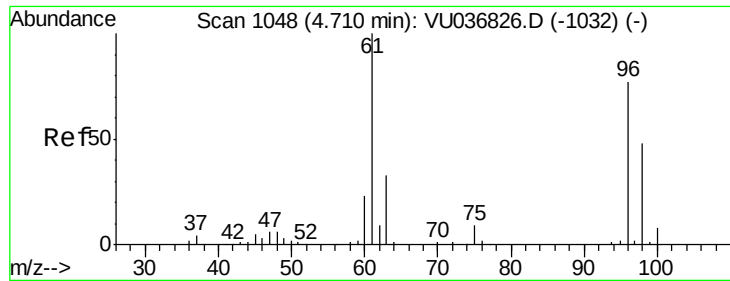
Tot Ion: 63 Resp: 77173
 Ion Ratio Lower Upper
 63 100
 65 31.8 21.6 40.2
 83 12.8 8.8 16.3



#21
 2-Butanone
 Concen: 45.788 ug/L
 RT: 4.75 min Scan# 1062
 Delta R.T. -0.01 min
 Lab File: VU036840.D
 Acq: 18 Feb 2020 17:46

Tgt Ion: 43 Resp: 138689
 Ion Ratio Lower Upper
 43 100
 72 29.2 14.0 41.9





#22

cis-1,2-Dichloroethene

Concen: 5.271 ug/L

RT: 4.71 min Scan# 1048

Delta R.T. -0.00 min

Lab File: VU036840.D

Acq: 18 Feb 2020 17:46

Instrument :
MSVOA_U
ClientSampleId :

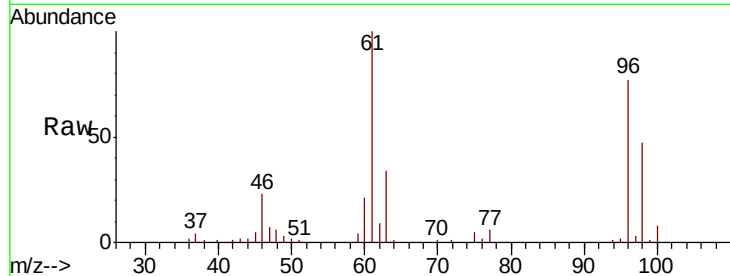
Tot Ion: 96 Resp: 45207

Ion Ratio Lower Upper

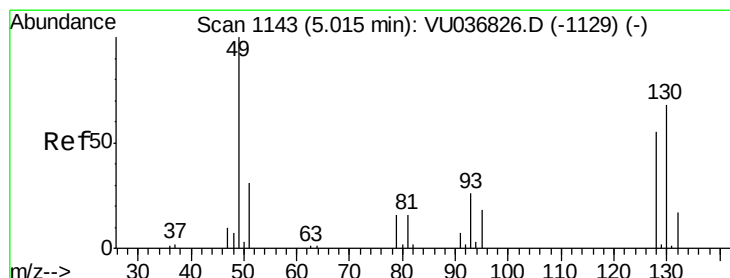
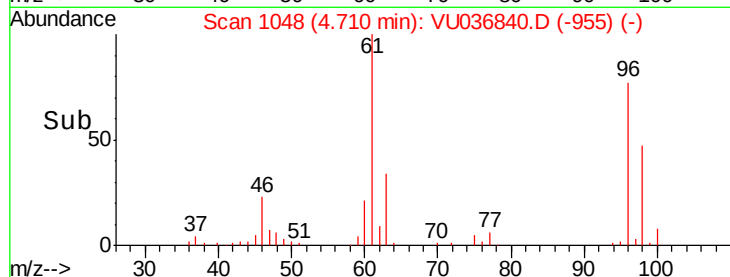
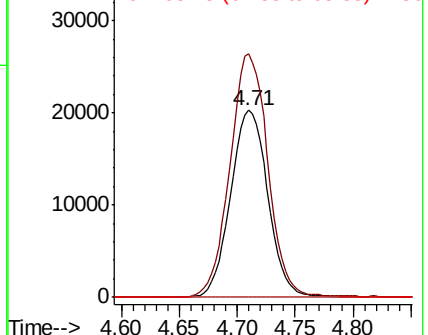
96 100

61 130.2 91.2 169.4

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: 5.139 ug/L

RT: 5.02 min Scan# 1144

Delta R.T. 0.00 min

Lab File: VU036840.D

Acq: 18 Feb 2020 17:46

Tgt Ion: 128 Resp: 17522

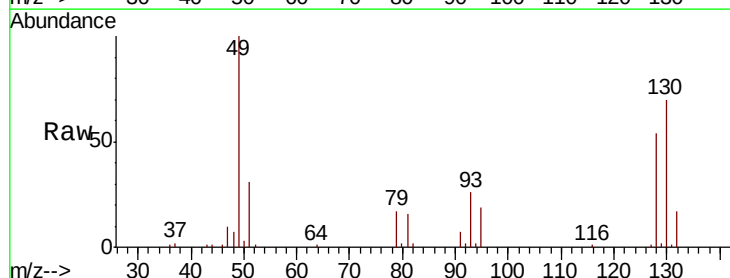
Ion Ratio Lower Upper

128 100

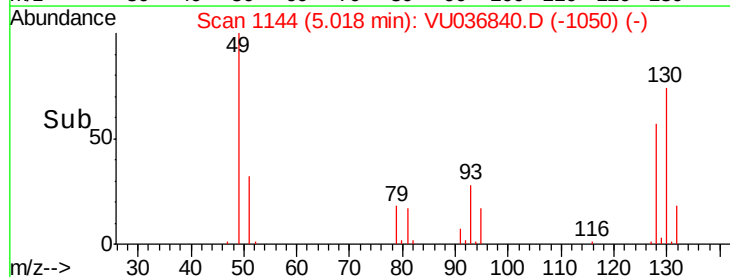
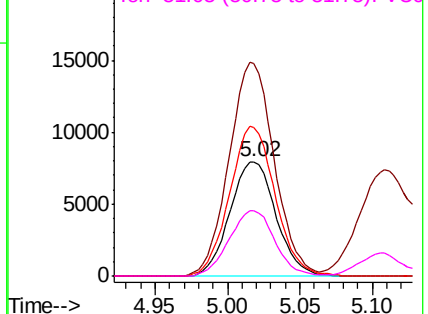
49 185.8 132.4 245.8

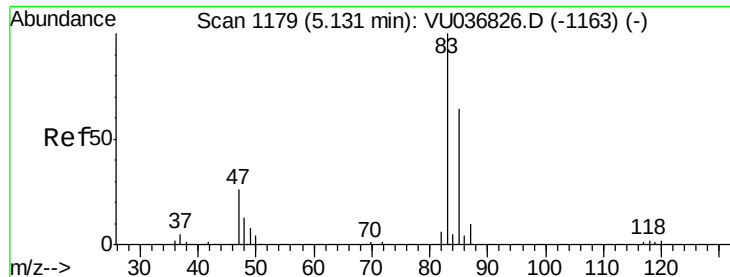
130 130.1 89.0 165.2

51 57.1 45.6 68.4



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

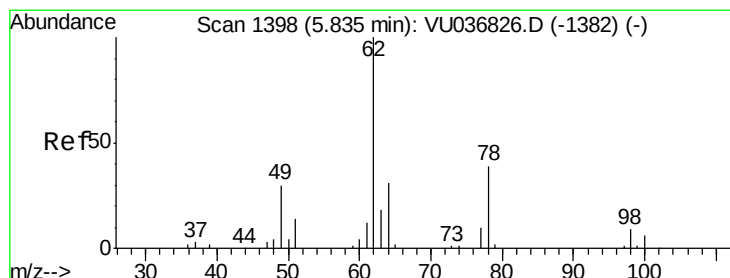
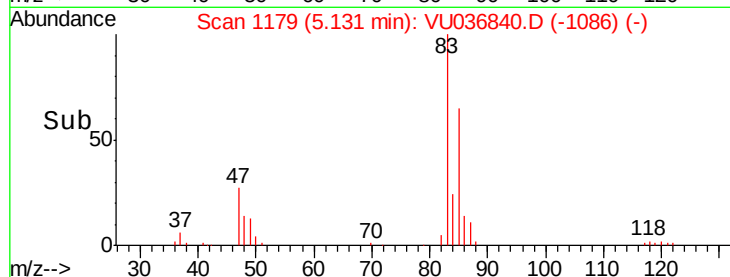
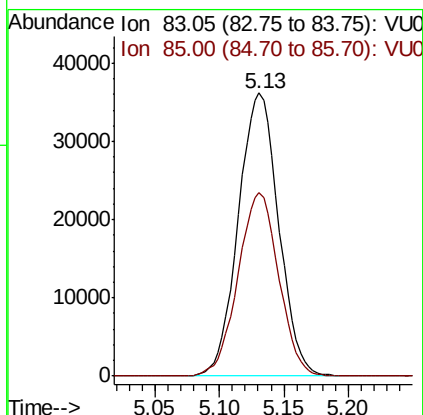
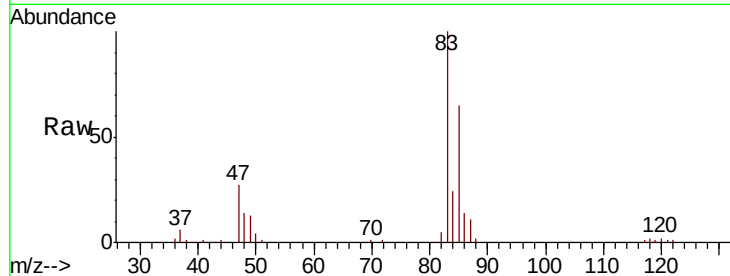




#25
Chloroform
Concen: 4.961 ug/L
RT: 5.13 min Scan# 1179
Delta R.T. -0.00 min
Lab File: VU036840.D
Acq: 18 Feb 2020 17:46

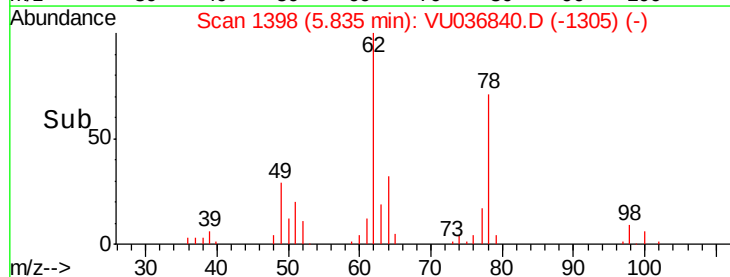
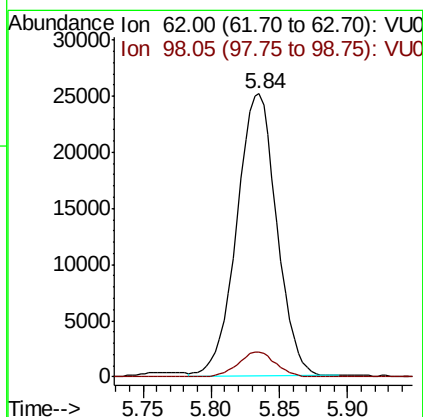
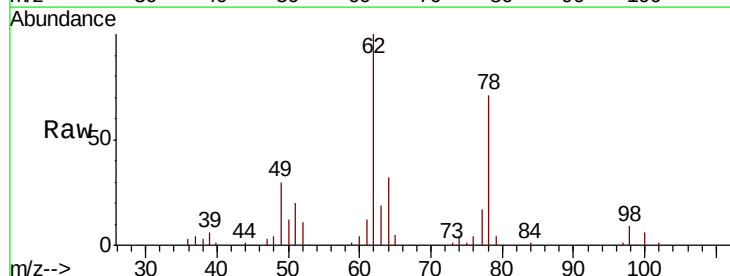
Instrument :
MSVOA_U
ClientSampleId :

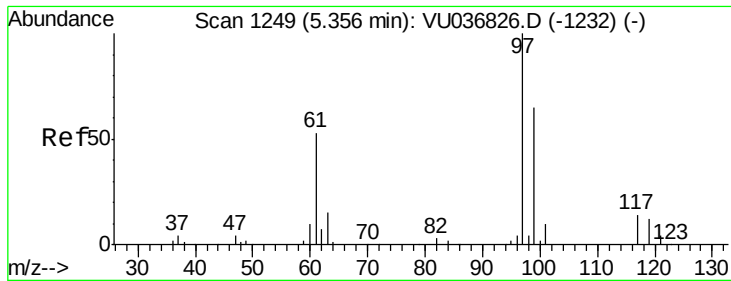
Tot Ion: 83 Resp: 78738
Ion Ratio Lower Upper
83 100
85 64.9 45.4 84.2



#27
1,2-Dichloroethane
Concen: 5.069 ug/L
RT: 5.84 min Scan# 1398
Delta R.T. -0.00 min
Lab File: VU036840.D
Acq: 18 Feb 2020 17:46

Tgt Ion: 62 Resp: 51286
Ion Ratio Lower Upper
62 100
98 8.6 7.0 10.4

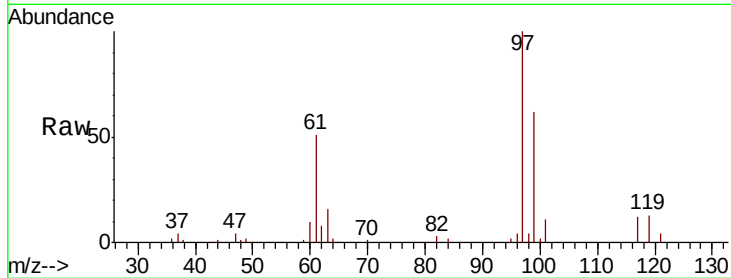




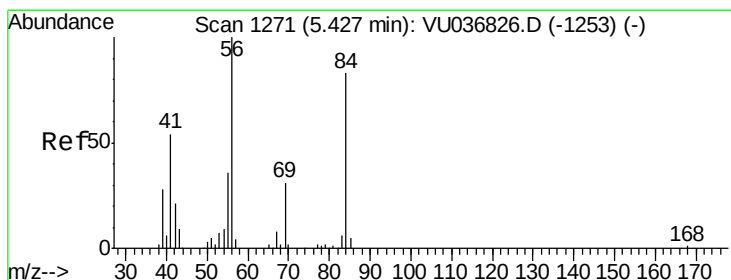
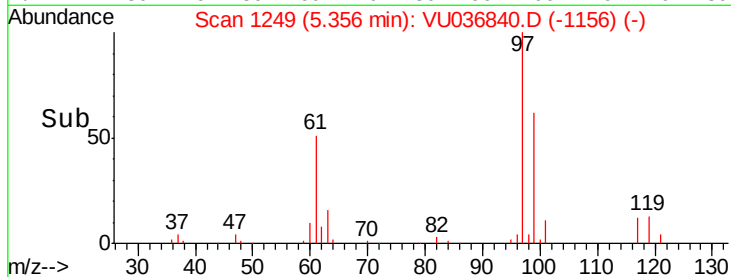
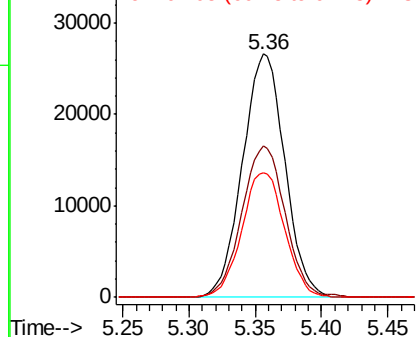
#29
 1,1,1-Trichloroethane
 Concen: 5.121 ug/L
 RT: 5.36 min Scan# 1249
 Delta R.T. -0.00 min
 Lab File: VU036840.D
 Acq: 18 Feb 2020 17:46

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 97 Resp: 59211
 Ion Ratio Lower Upper
 97 100
 99 63.8 51.0 76.4
 61 51.9 41.6 62.4

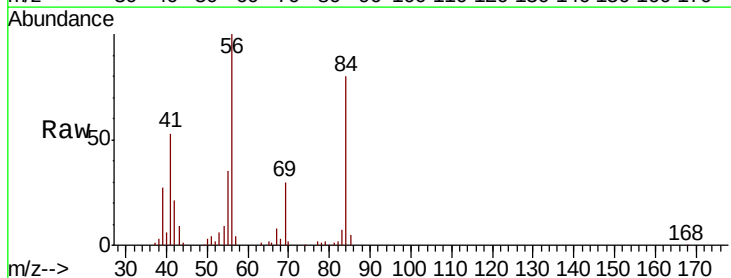


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

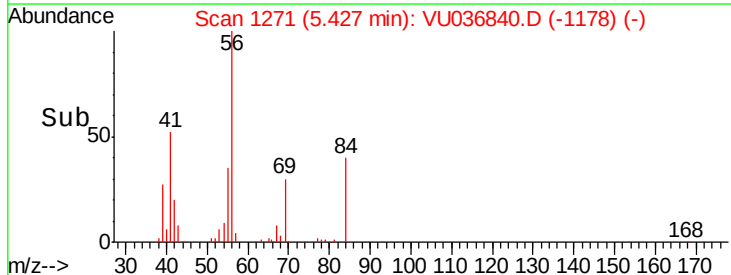
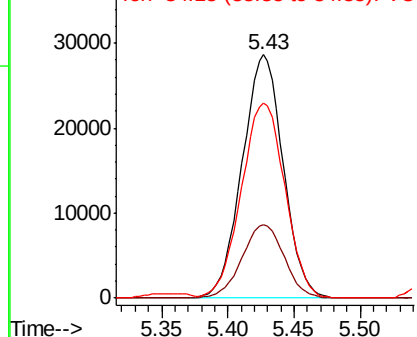


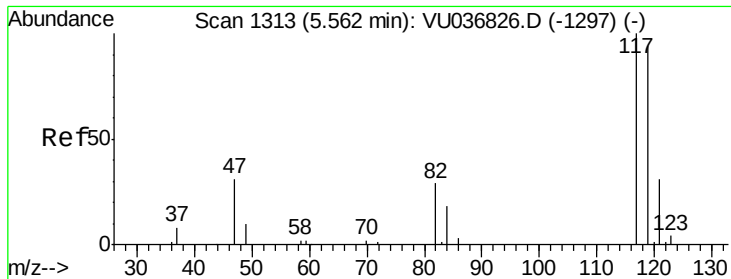
#30
 Cyclohexane
 Concen: 5.016 ug/L
 RT: 5.43 min Scan# 1271
 Delta R.T. -0.00 min
 Lab File: VU036840.D
 Acq: 18 Feb 2020 17:46

Tgt Ion: 56 Resp: 61612
 Ion Ratio Lower Upper
 56 100
 69 31.1 24.6 37.0
 84 85.5 70.0 105.0



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





#31

Carbon tetrachloride

Concen: 4.889 ug/L

RT: 5.56 min Scan# 1313

Delta R.T. -0.00 min

Lab File: VU036840.D

Acq: 18 Feb 2020 17:46

Instrument :

MSVOA_U

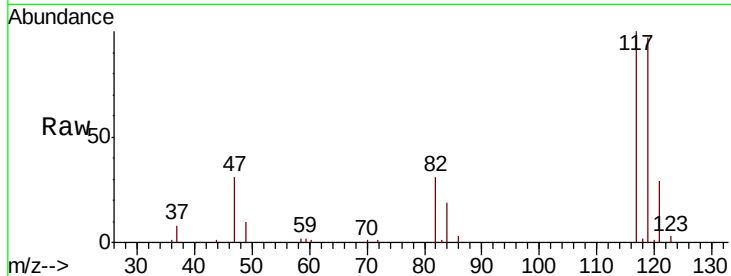
ClientSampleId :

Tot Ion:117 Resp: 45606

Ion Ratio Lower Upper

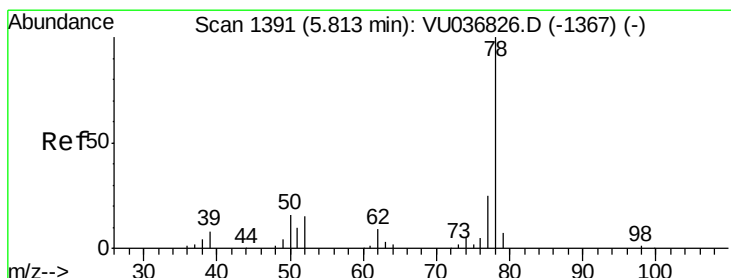
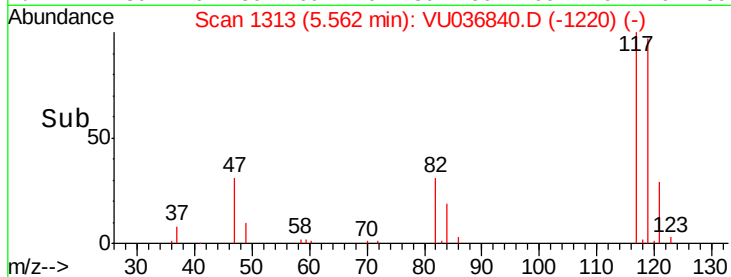
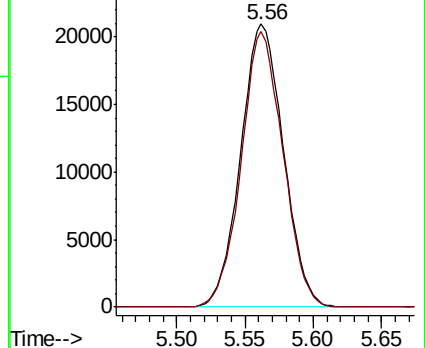
117 100

119 94.7 74.5 111.7



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.242 ug/L

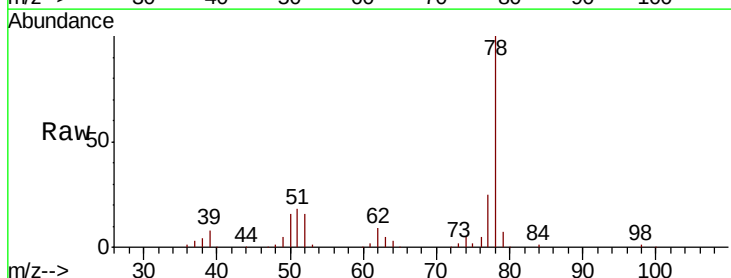
RT: 5.81 min Scan# 1391

Delta R.T. -0.00 min

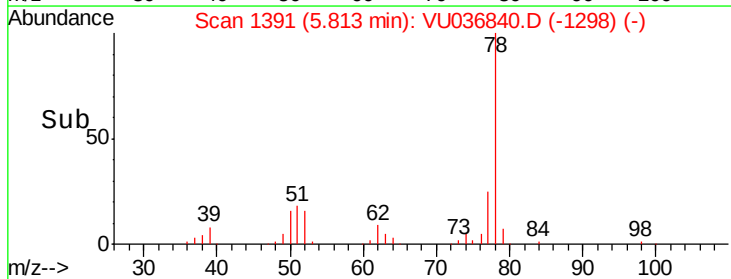
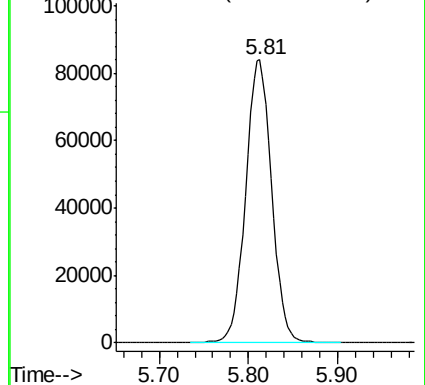
Lab File: VU036840.D

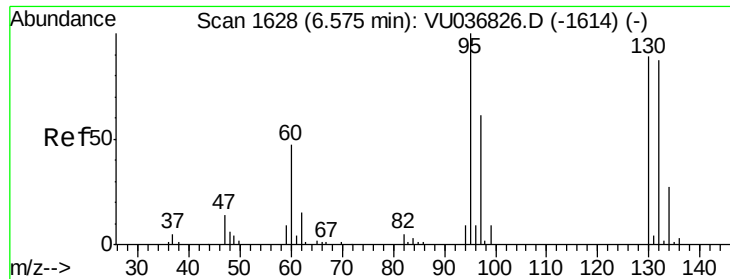
Acq: 18 Feb 2020 17:46

Tgt Ion: 78 Resp: 170228



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 5.192 ug/L

RT: 6.57 min Scan# 1628

Delta R.T. -0.00 min

Lab File: VU036840.D

Acq: 18 Feb 2020 17:46

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 42941

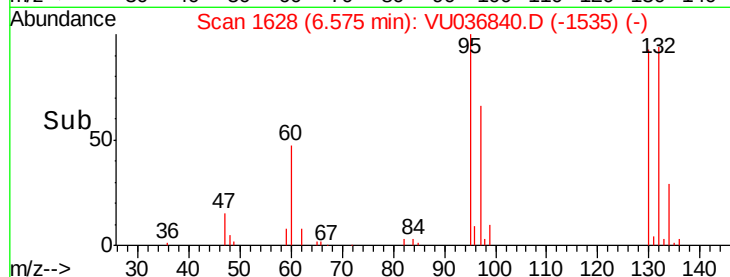
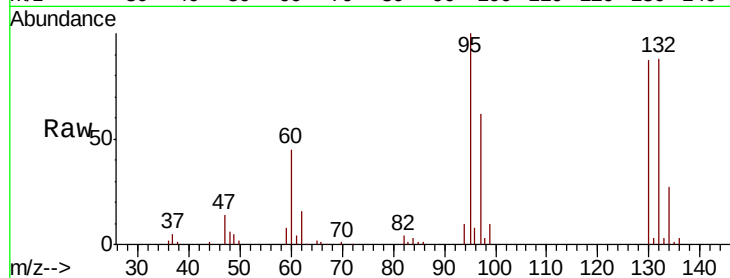
Ion Ratio Lower Upper

95 100

97 62.0 45.6 84.8

132 87.9 62.8 116.6

130 87.4 63.8 118.4

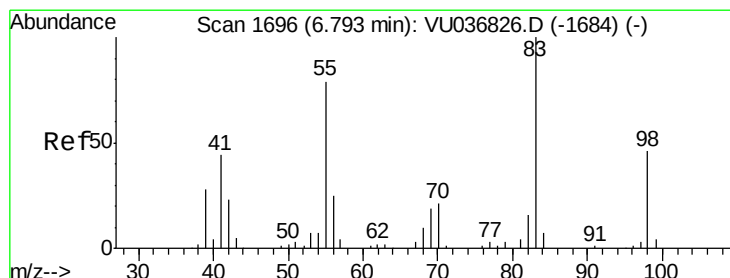
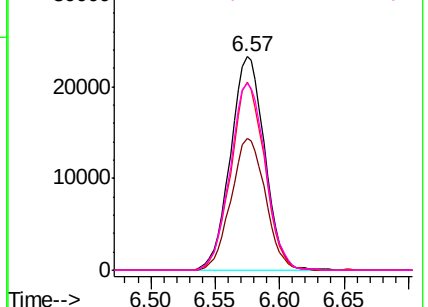


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 4.946 ug/L

RT: 6.79 min Scan# 1696

Delta R.T. -0.00 min

Lab File: VU036840.D

Acq: 18 Feb 2020 17:46

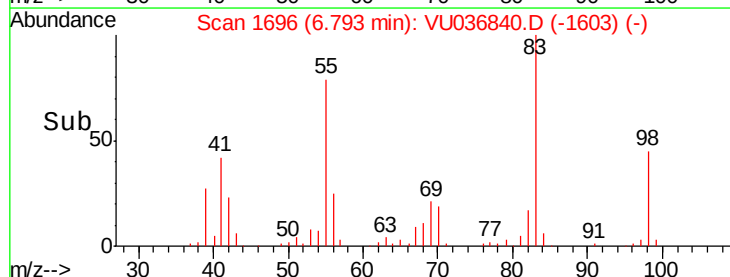
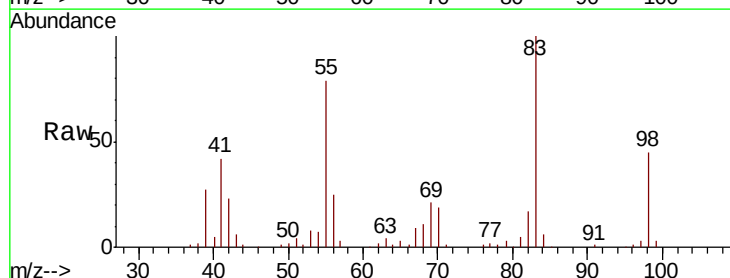
Tgt Ion: 83 Resp: 64913

Ion Ratio Lower Upper

83 100

55 77.3 61.0 91.4

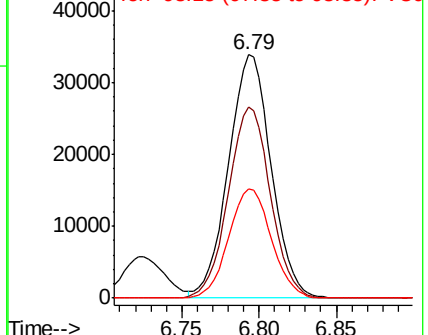
98 44.8 34.2 51.4

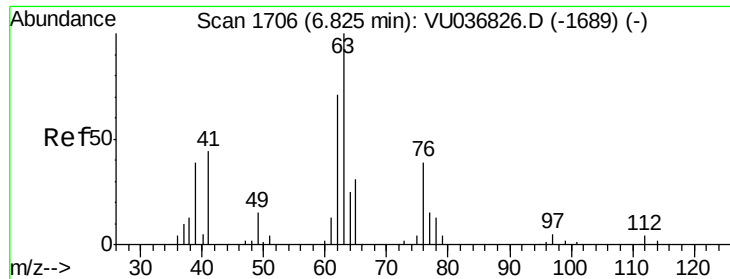


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

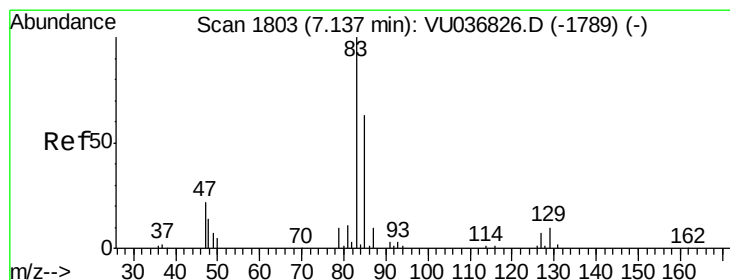
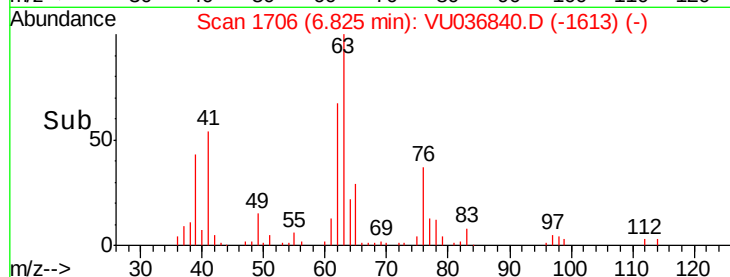
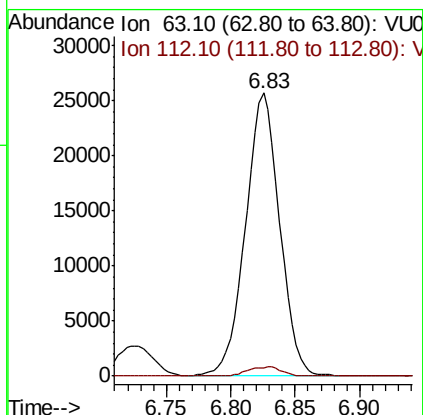
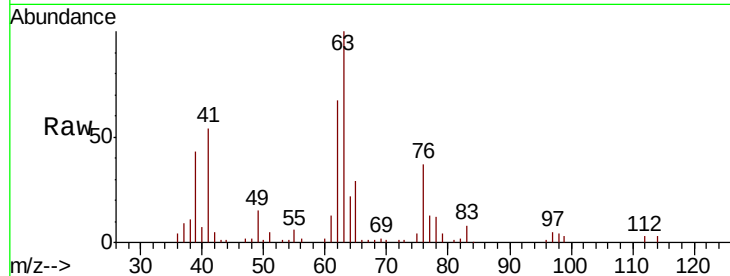




#37
 1,2-Dichloropropane
 Concen: 5.360 ug/L
 RT: 6.83 min Scan# 1706
 Delta R.T. -0.00 min
 Lab File: VU036840.D
 Acq: 18 Feb 2020 17:46

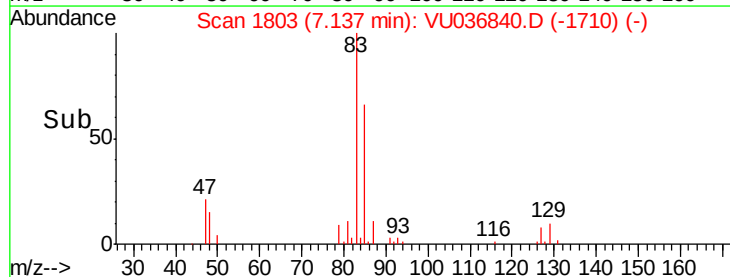
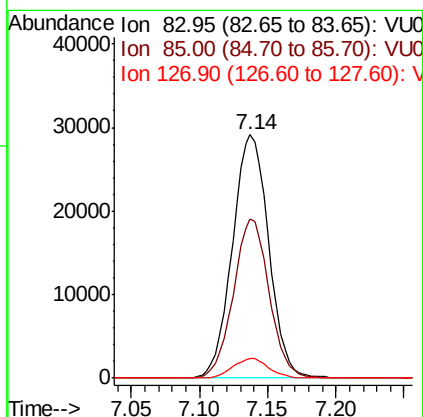
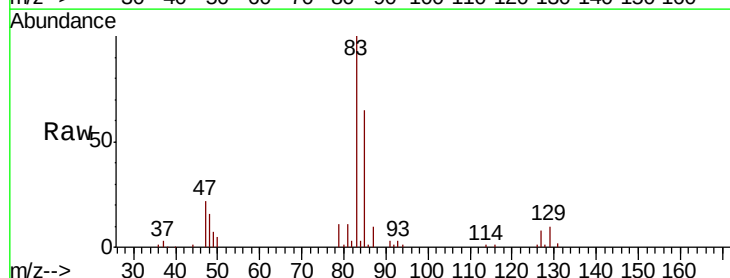
Instrument :
 MSVOA_U
 ClientSampled :

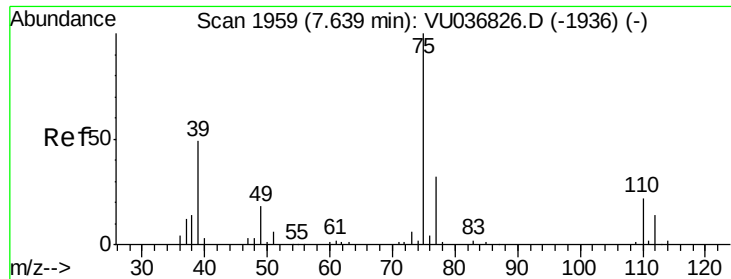
Tot Ion: 63 Resp: 47527
 Ion Ratio Lower Upper
 63 100
 112 3.2 3.0 4.4



#38
 Bromodichloromethane
 Concen: 5.077 ug/L
 RT: 7.14 min Scan# 1803
 Delta R.T. -0.00 min
 Lab File: VU036840.D
 Acq: 18 Feb 2020 17:46

Tgt Ion: 83 Resp: 53721
 Ion Ratio Lower Upper
 83 100
 85 65.2 43.0 80.0
 127 8.2 6.3 9.5



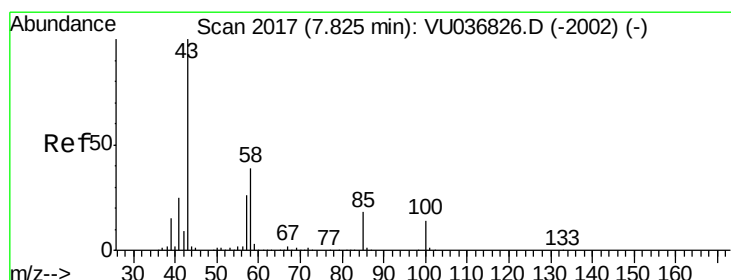
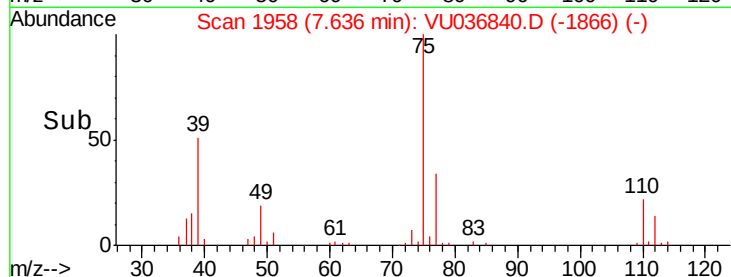
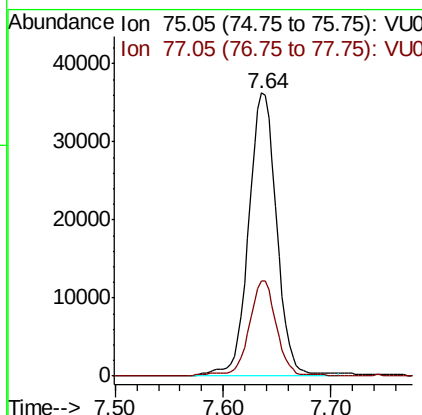
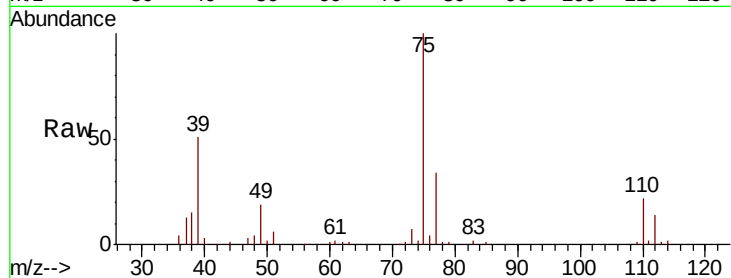


#39

cis-1,3-Dichloropropene
 Concen: 5.104 ug/L
 RT: 7.64 min Scan# 1958
 Delta R.T. -0.00 min
 Lab File: VU036840.D
 Acq: 18 Feb 2020 17:46

Instrument :
 MSVOA_U
 ClientSampleId :

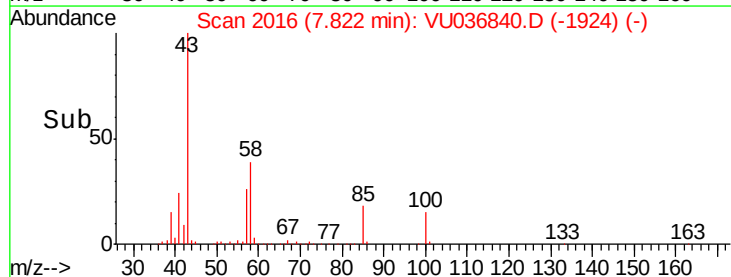
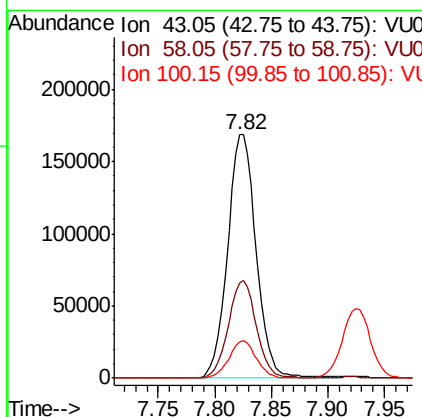
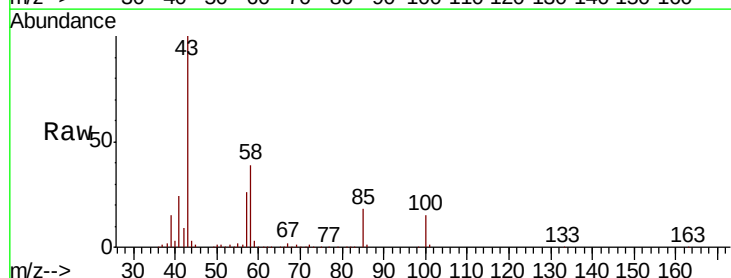
Tot Ion: 75 Resp: 65487
 Ion Ratio Lower Upper
 75 100
 77 33.5 22.5 41.9

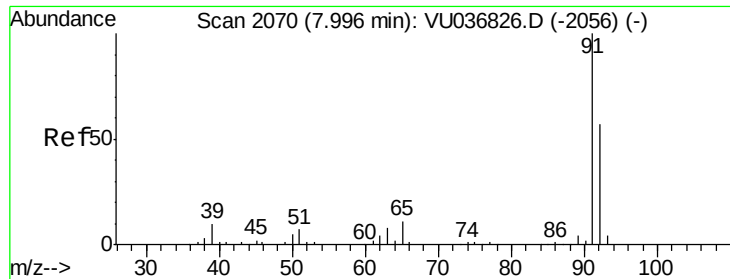


#40

4-Methyl-2-pentanone
 Concen: 51.721 ug/L
 RT: 7.82 min Scan# 2016
 Delta R.T. -0.00 min
 Lab File: VU036840.D
 Acq: 18 Feb 2020 17:46

Tgt Ion: 43 Resp: 295946
 Ion Ratio Lower Upper
 43 100
 58 39.5 32.0 48.0
 100 14.8 11.8 17.8





#42

Toluene

Concen: 5.240 ug/L

RT: 8.00 min Scan# 2070

Delta R.T. -0.00 min

Lab File: VU036840.D

Acq: 18 Feb 2020 17:46

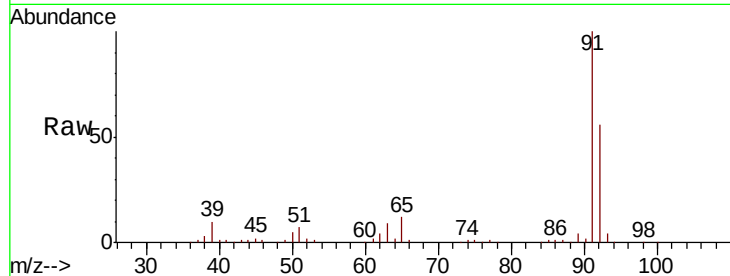
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 91 Resp: 182753

Ion Ratio Lower Upper

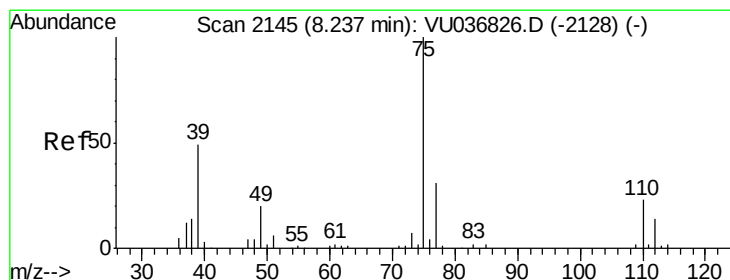
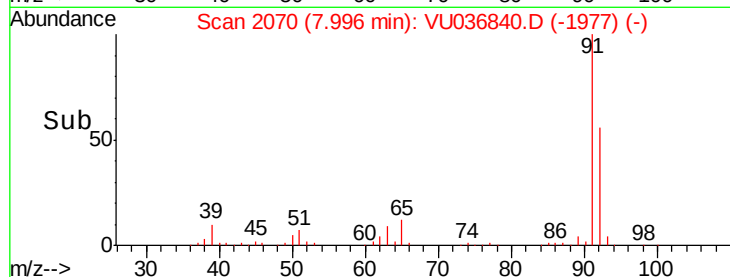
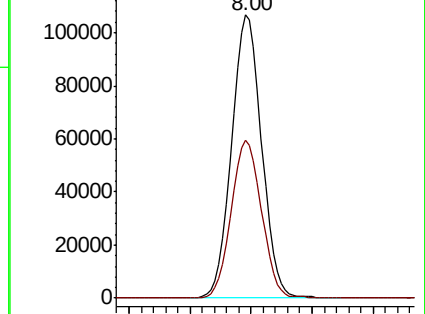
91 100

92 55.6 41.2 76.4



Abundance Ion 91.15 (90.85 to 91.85): VU036840.D (-1977) (-)

Ion 92.15 (91.85 to 92.85): VU036840.D (-1977) (-)



#44

trans-1,3-Dichloropropene

Concen: 5.147 ug/L

RT: 8.24 min Scan# 2145

Delta R.T. -0.00 min

Lab File: VU036840.D

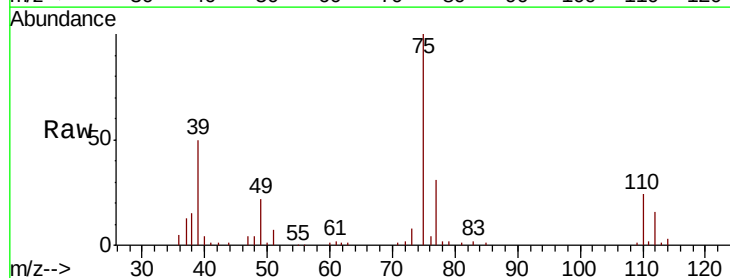
Acq: 18 Feb 2020 17:46

Tgt Ion: 75 Resp: 51612

Ion Ratio Lower Upper

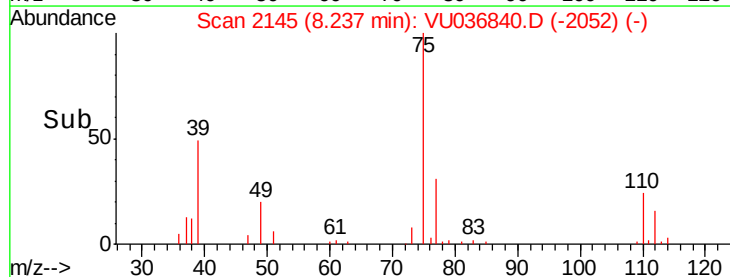
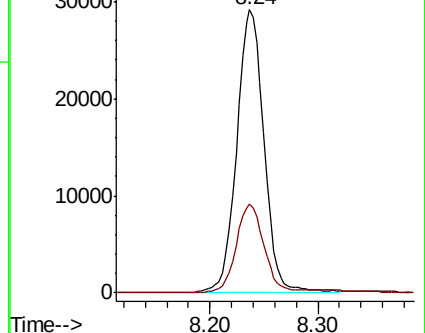
75 100

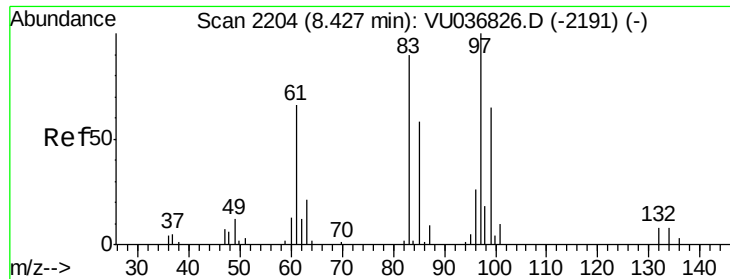
77 31.2 23.1 42.9



Abundance Ion 75.05 (74.75 to 75.75): VU036840.D (-2052) (-)

Ion 77.05 (76.75 to 77.75): VU036840.D (-2052) (-)





#45

1,1,2-Trichloroethane

Concen: 5.180 ug/L

RT: 8.43 min Scan# 2204

Delta R.T. -0.00 min

Lab File: VU036840.D

Acq: 18 Feb 2020 17:46

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 97 Resp: 31953

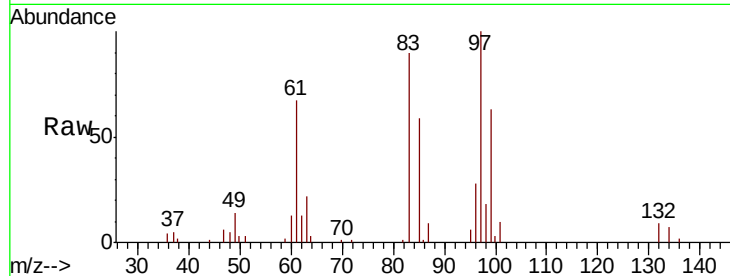
Ion Ratio Lower Upper

97 100

99 63.3 44.1 81.9

83 89.7 63.5 117.9

85 58.9 41.2 76.4



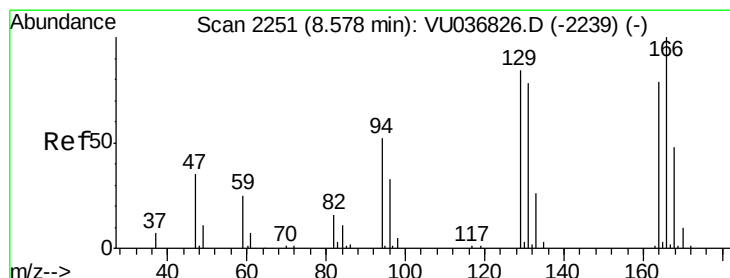
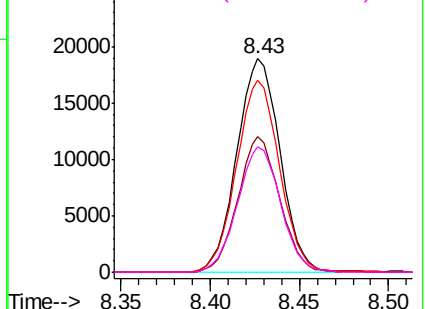
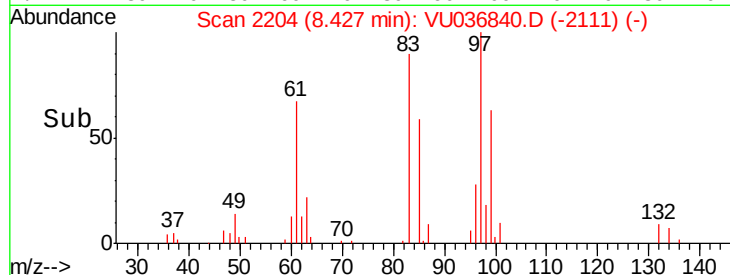
Abundance

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: 4.700 ug/L

RT: 8.58 min Scan# 2251

Delta R.T. -0.00 min

Lab File: VU036840.D

Acq: 18 Feb 2020 17:46

Tgt Ion: 164 Resp: 26446

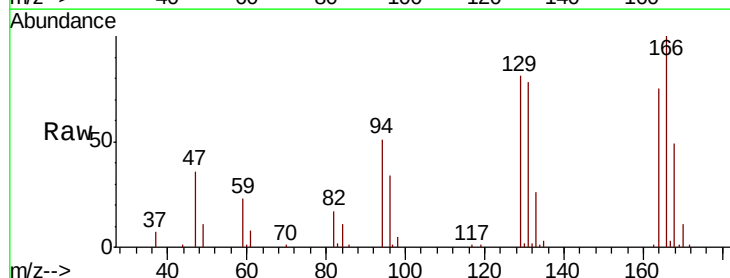
Ion Ratio Lower Upper

164 100

129 107.7 68.0 126.4

131 103.1 69.4 128.8

166 132.7 86.6 160.8



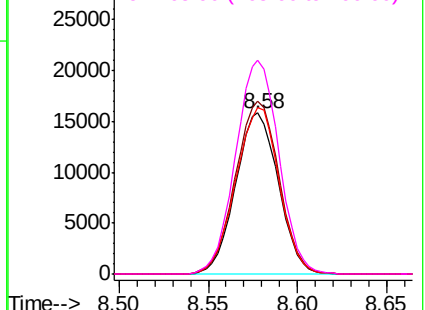
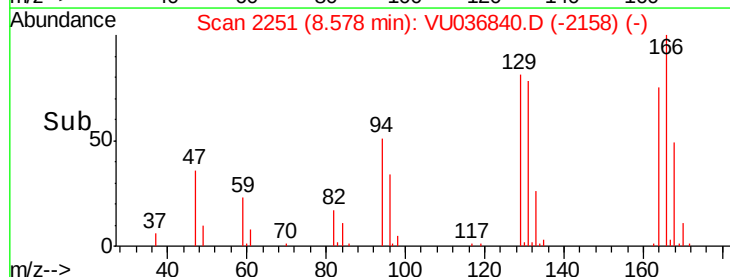
Abundance

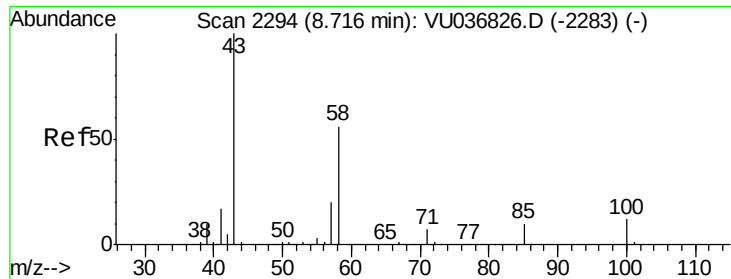
Ion 163.90 (163.60 to 164.60): V

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

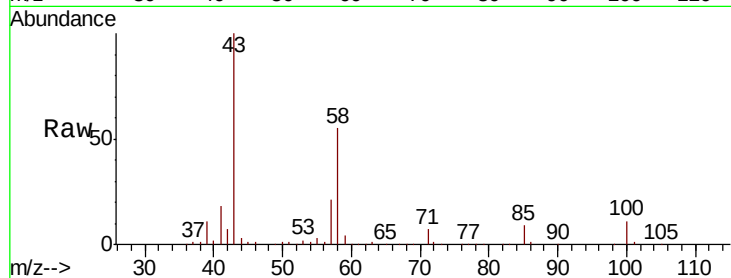




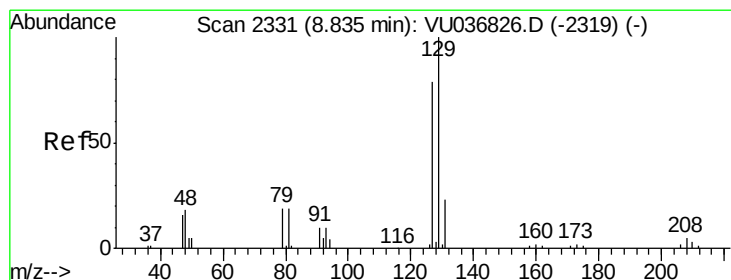
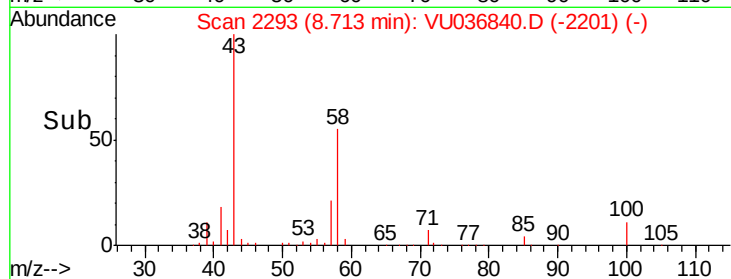
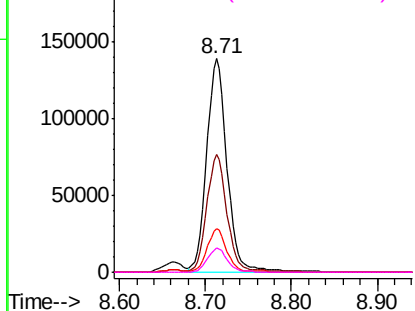
#48
2-Hexanone
Concen: 47.290 ug/L
RT: 8.71 min Scan# 2293
Delta R.T. -0.00 min
Lab File: VU036840.D
Acq: 18 Feb 2020 17:46

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 231564
Ion Ratio Lower Upper
43 100
58 55.3 43.6 65.4
57 19.7 15.0 22.4
100 11.1 9.0 13.6

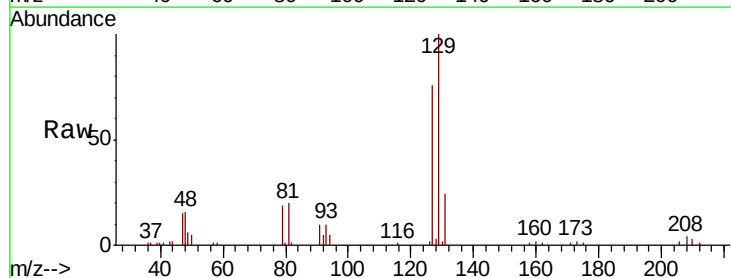


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

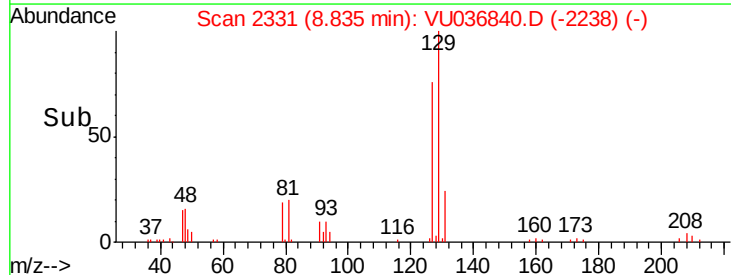
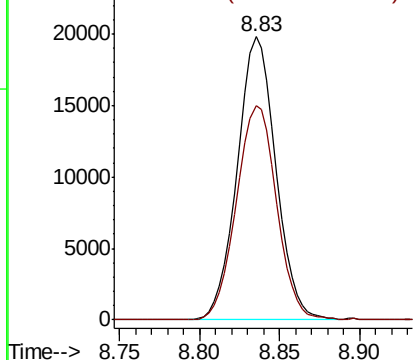


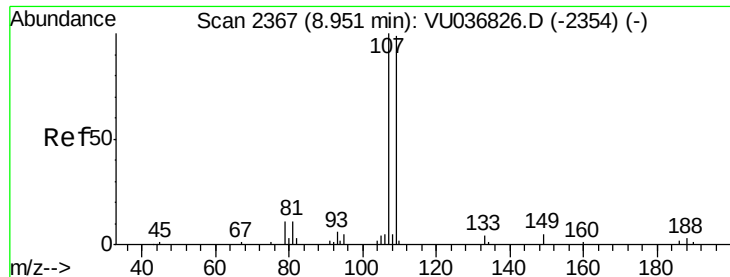
#49
Dibromochloromethane
Concen: 5.096 ug/L
RT: 8.83 min Scan# 2331
Delta R.T. -0.00 min
Lab File: VU036840.D
Acq: 18 Feb 2020 17:46

Tgt Ion: 129 Resp: 32510
Ion Ratio Lower Upper
129 100
127 75.6 56.7 105.3



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

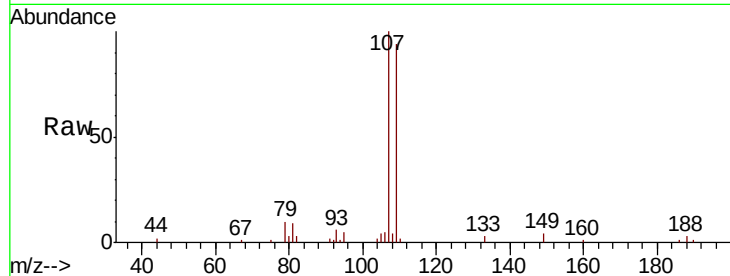




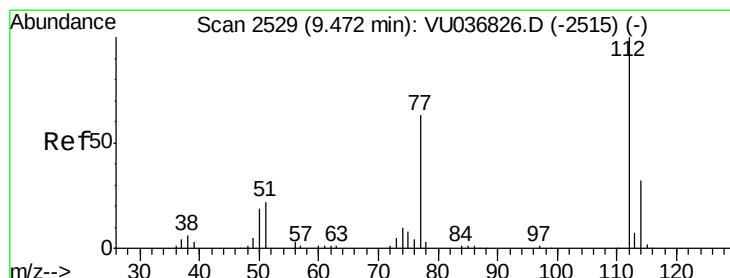
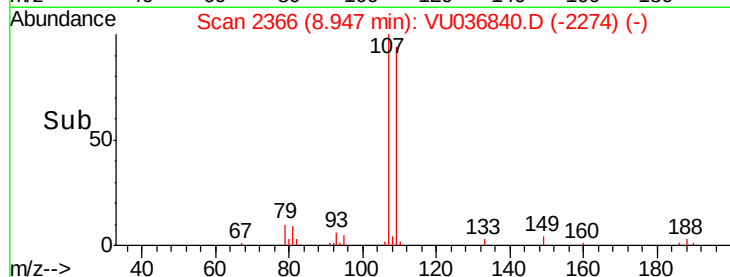
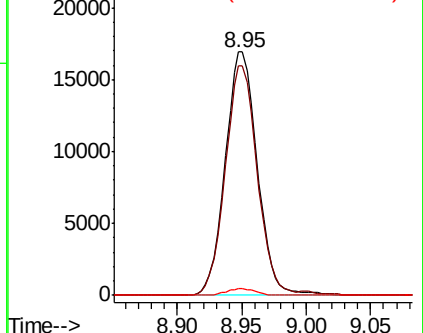
#50
1,2-Dibromoethane
Concen: 5.234 ug/L
RT: 8.95 min Scan# 2366
Delta R.T. -0.00 min
Lab File: VU036840.D
Acq: 18 Feb 2020 17:46

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:107 Resp: 29162
Ion Ratio Lower Upper
107 100
109 94.0 66.4 123.2
188 2.7 2.4 3.6

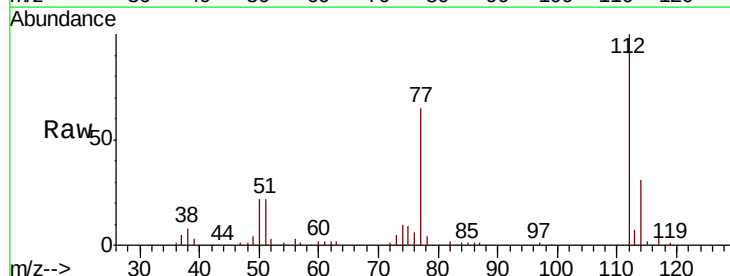


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

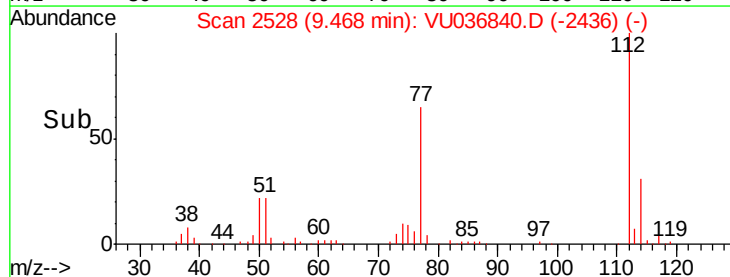
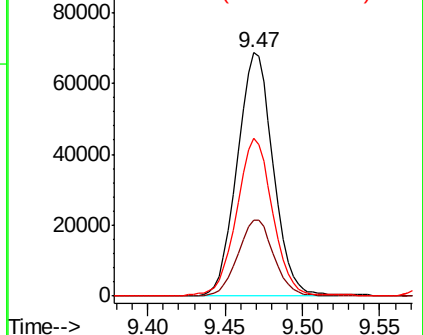


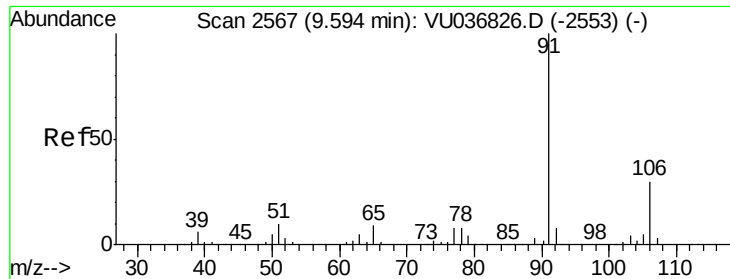
#51
Chlorobenzene
Concen: 5.153 ug/L
RT: 9.47 min Scan# 2528
Delta R.T. -0.00 min
Lab File: VU036840.D
Acq: 18 Feb 2020 17:46

Tgt Ion:112 Resp: 111179
Ion Ratio Lower Upper
112 100
114 31.4 22.9 42.5
77 64.6 51.0 76.4



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: 5.126 ug/L

RT: 9.59 min Scan# 2566

Delta R.T. -0.00 min

Lab File: VU036840.D

Acq: 18 Feb 2020 17:46

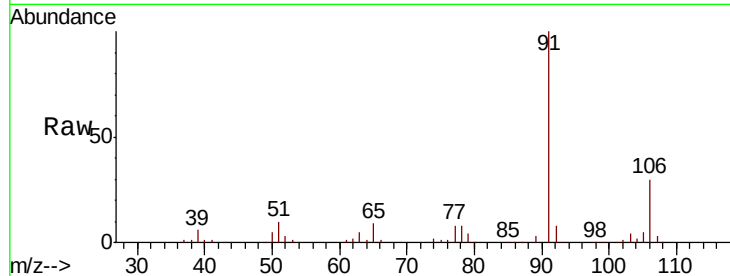
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 91 Resp: 199677

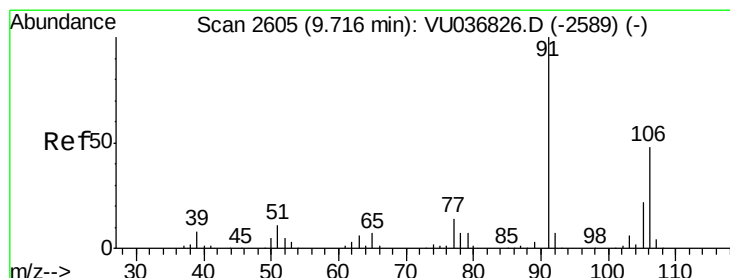
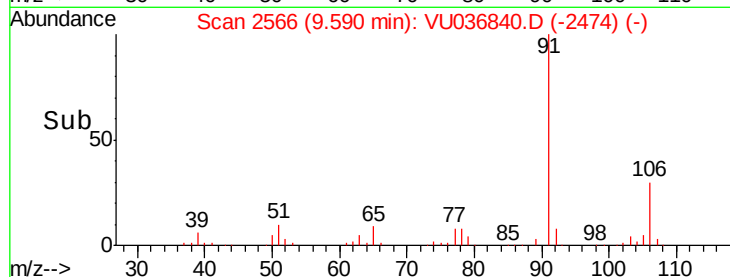
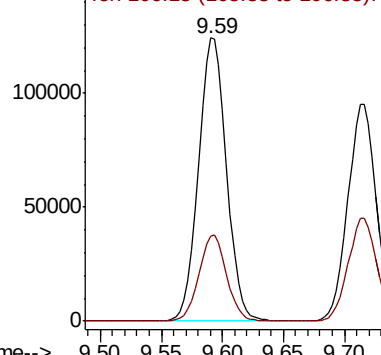
Ion Ratio Lower Upper

91 100

106 30.1 21.5 39.9



Abundance Ion 91.15 (90.85 to 91.85): VU036840.D (-2553) (-)



#53

m,p-Xylene

Concen: 5.151 ug/L

RT: 9.72 min Scan# 2605

Delta R.T. -0.00 min

Lab File: VU036840.D

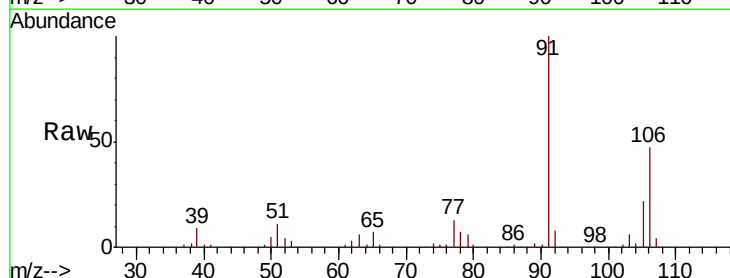
Acq: 18 Feb 2020 17:46

Tgt Ion: 106 Resp: 73844

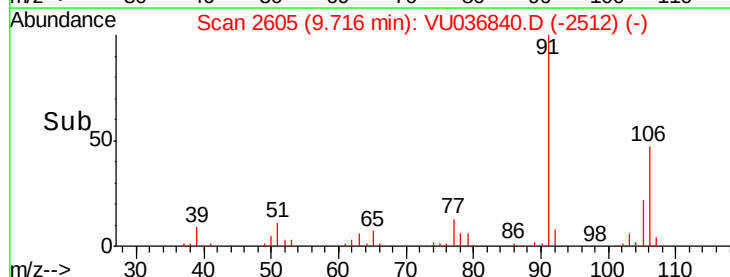
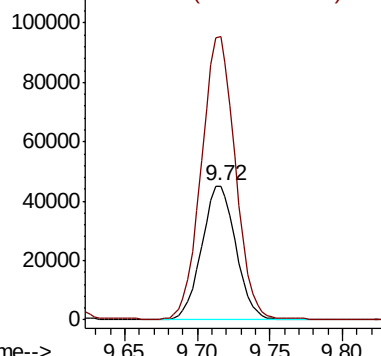
Ion Ratio Lower Upper

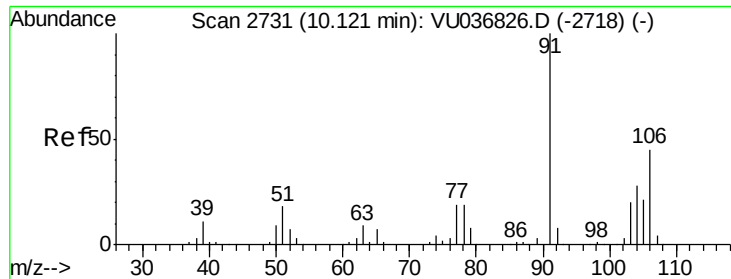
106 100

91 211.6 141.1 262.0



Abundance Ion 106.15 (105.85 to 106.85): VU036840.D (-2589) (-)

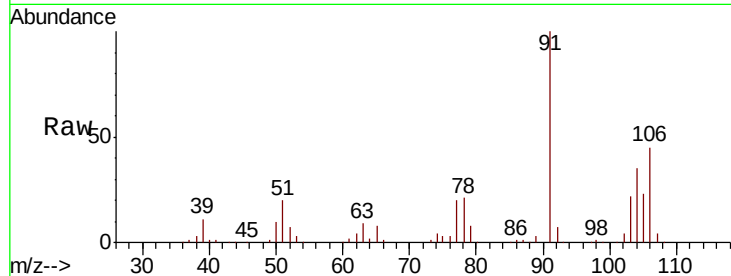




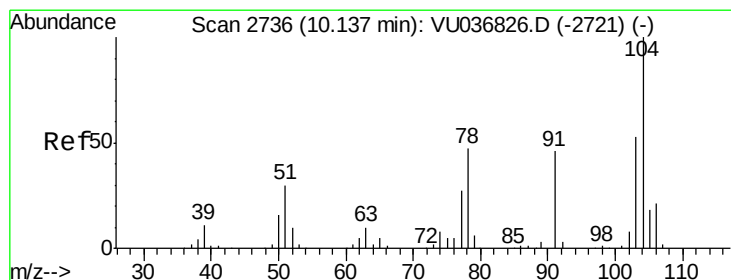
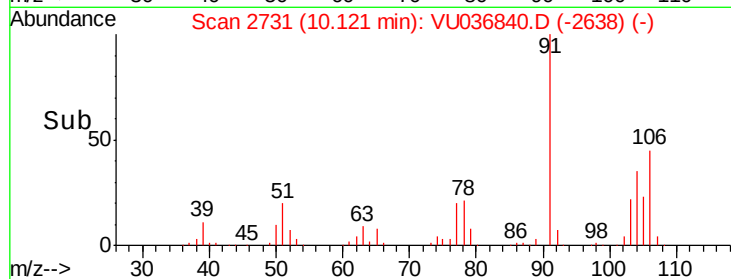
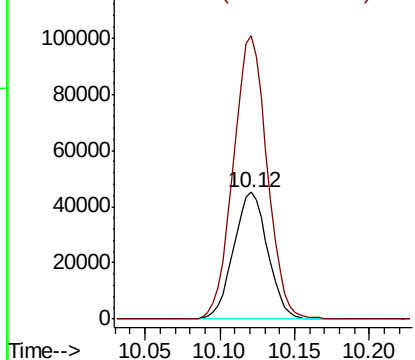
#54
o-Xylene
Concen: 5.100 ug/L
RT: 10.12 min Scan# 2731
Delta R.T. -0.00 min
Lab File: VU036840.D
Acq: 18 Feb 2020 17:46

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 71803
Ion Ratio Lower Upper
106 100
91 222.8 151.1 280.5

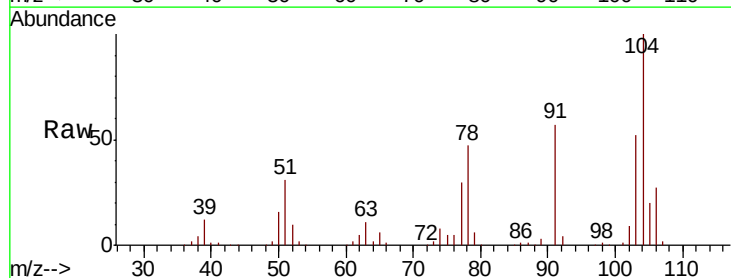


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

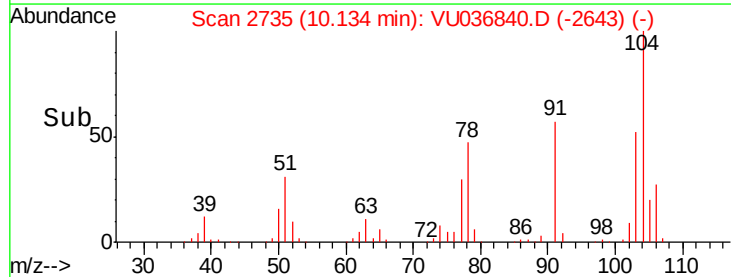
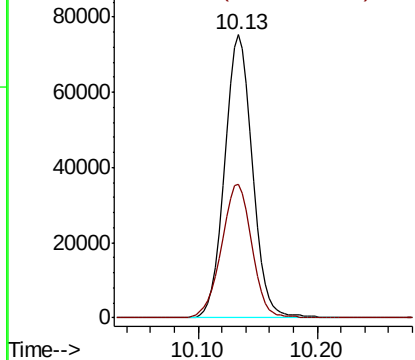


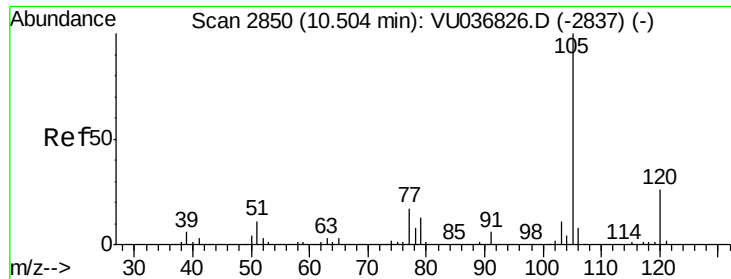
#55
Styrene
Concen: 5.132 ug/L
RT: 10.13 min Scan# 2735
Delta R.T. -0.00 min
Lab File: VU036840.D
Acq: 18 Feb 2020 17:46

Tgt Ion:104 Resp: 121802
Ion Ratio Lower Upper
104 100
78 47.2 33.5 62.3



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





#56

Isopropylbenzene

Concen: 5.152 ug/L

RT: 10.50 min Scan# 2850

Delta R.T. -0.00 min

Lab File: VU036840.D

Acq: 18 Feb 2020 17:46

Instrument :

MSVOA_U

ClientSampleId :

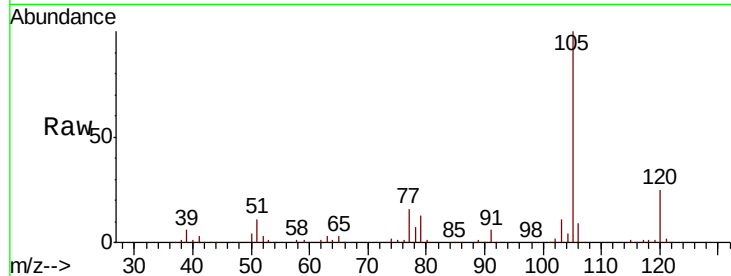
Tot Ion:105 Resp: 194119

Ion Ratio Lower Upper

105 100

120 25.1 20.5 30.7

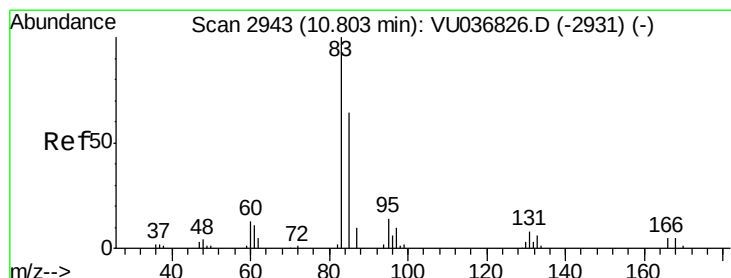
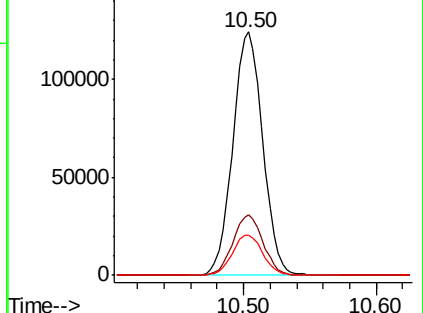
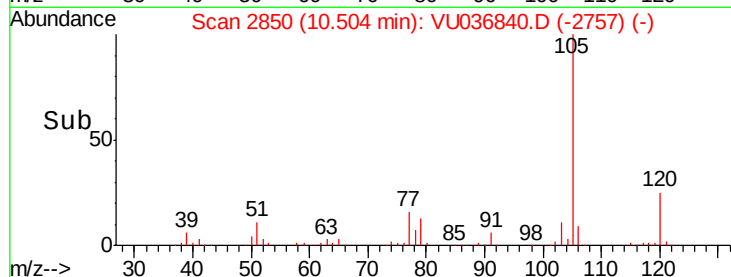
77 16.8 13.0 19.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.350 ug/L

RT: 10.80 min Scan# 2943

Delta R.T. -0.00 min

Lab File: VU036840.D

Acq: 18 Feb 2020 17:46

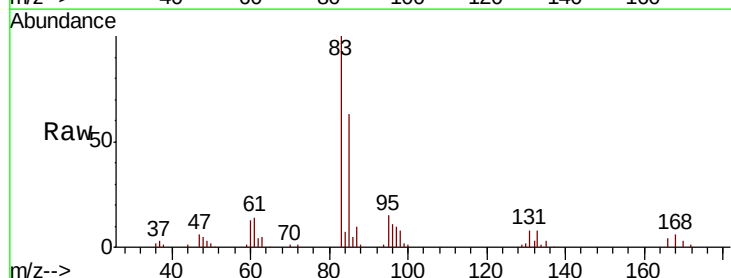
Tgt Ion: 83 Resp: 43202

Ion Ratio Lower Upper

83 100

85 63.1 45.6 84.6

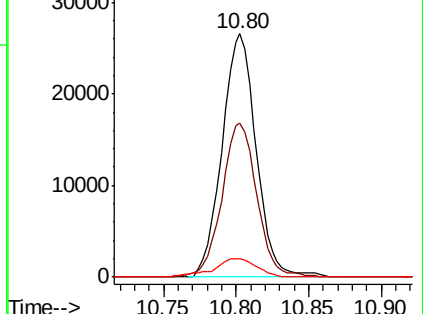
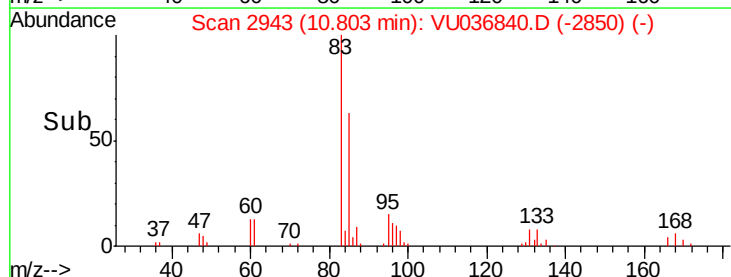
131 7.6 6.8 10.2

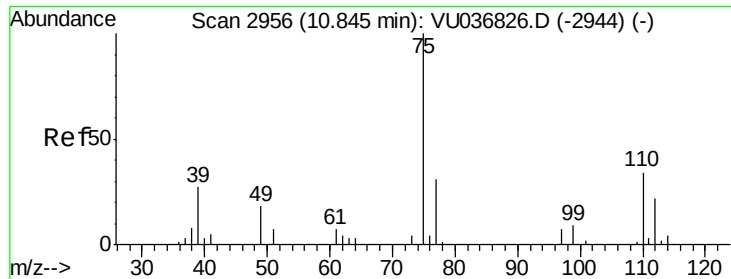


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.120 ug/L

RT: 10.84 min Scan# 2956

Delta R.T. -0.00 min

Lab File: VU036840.D

Acq: 18 Feb 2020 17:46

Instrument :

MSVOA_U

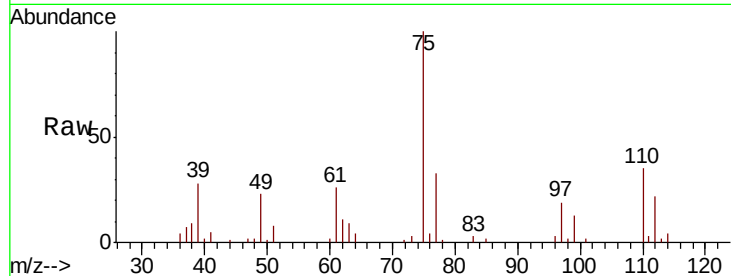
ClientSampleId :

Tot Ion: 75 Resp: 29973

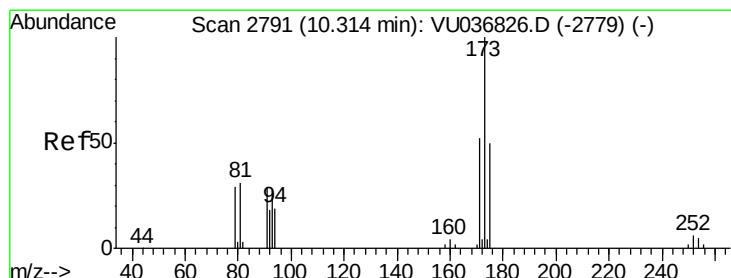
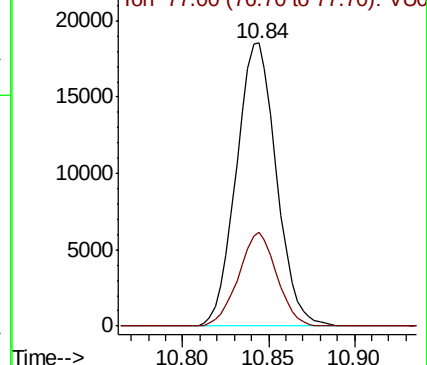
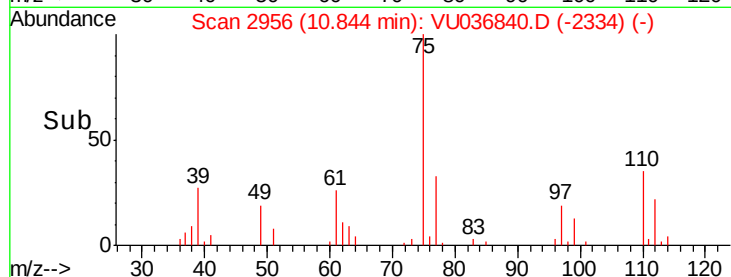
Ion Ratio Lower Upper

75 100

77 31.4 25.6 38.4



Abundance Ion 75.00 (74.70 to 75.70): VU036840.D (-2334) (-)



#61

Bromoform

Concen: 4.954 ug/L

RT: 10.31 min Scan# 2791

Delta R.T. -0.00 min

Lab File: VU036840.D

Acq: 18 Feb 2020 17:46

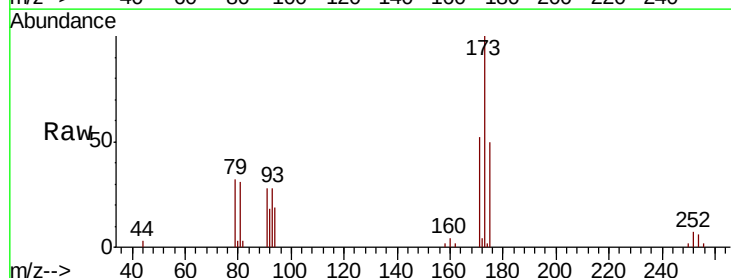
Tgt Ion: 173 Resp: 16595

Ion Ratio Lower Upper

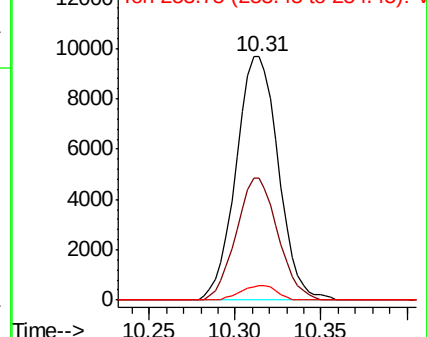
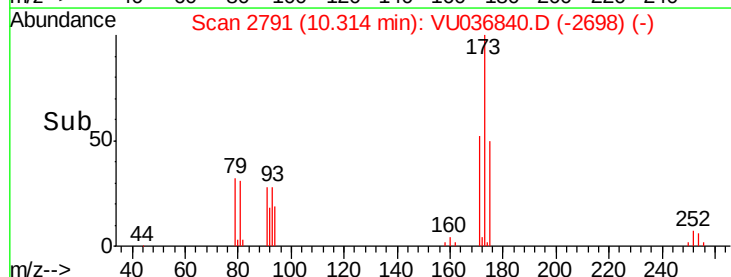
173 100

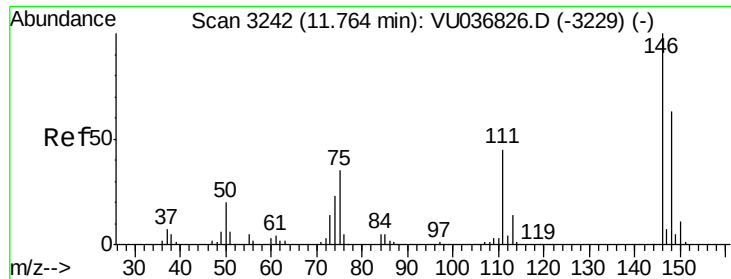
175 49.4 39.9 59.9

254 5.0 4.6 6.8



Abundance Ion 172.90 (172.60 to 173.60): VU036840.D (-2698) (-)

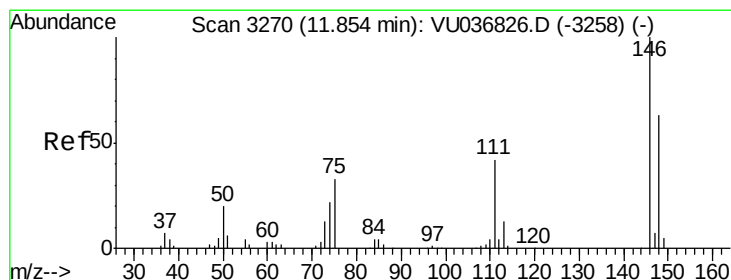
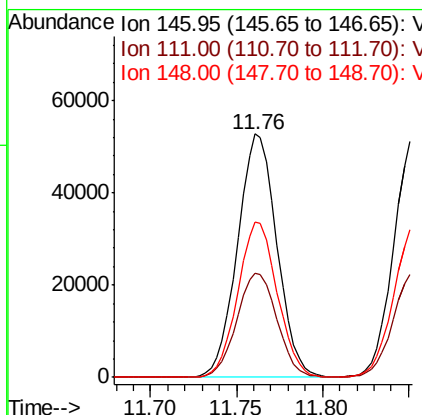
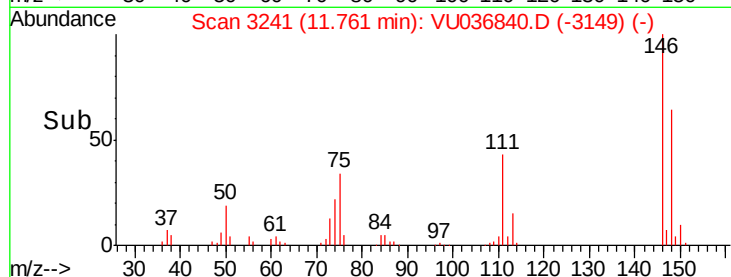
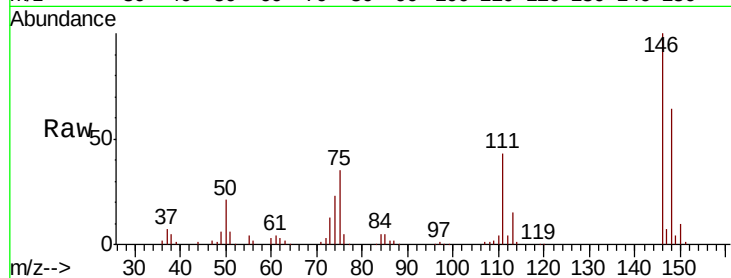




#62
 1,3-Dichlorobenzene
 Concen: 4.992 ug/L
 RT: 11.76 min Scan# 3241
 Delta R.T. -0.00 min
 Lab File: VU036840.D
 Acq: 18 Feb 2020 17:46

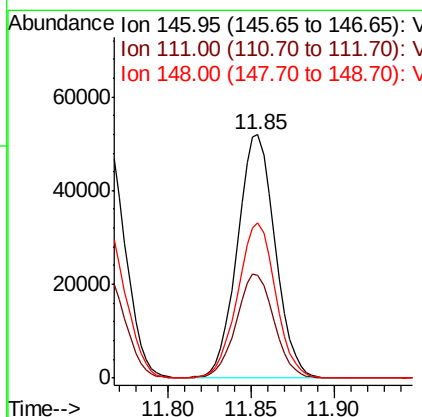
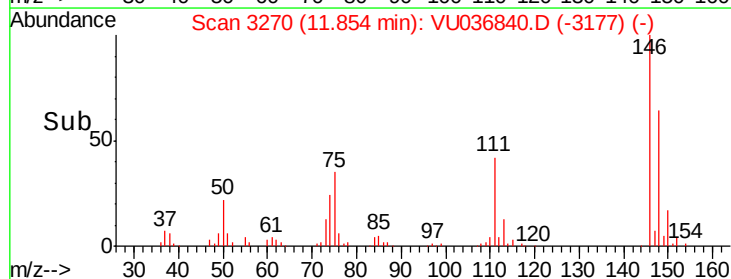
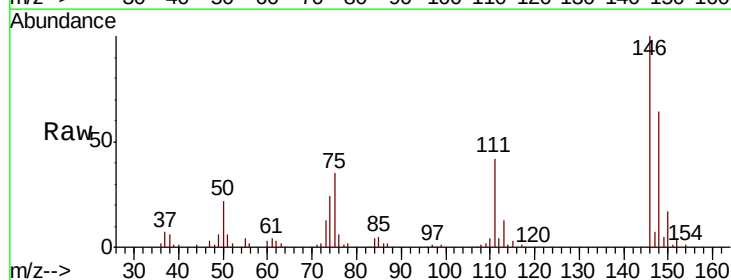
Instrument :
 MSVOA_U
 ClientSampleId :

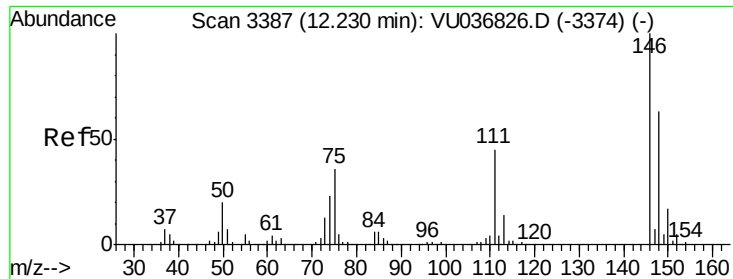
Tot Ion	Ratio	Lower	Upper
146	100		
111	43.0	30.0	55.8
148	63.5	44.5	82.7



#63
 1,4-Dichlorobenzene
 Concen: 4.958 ug/L
 RT: 11.85 min Scan# 3270
 Delta R.T. -0.00 min
 Lab File: VU036840.D
 Acq: 18 Feb 2020 17:46

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.5	29.2	54.2
148	63.8	44.3	82.3

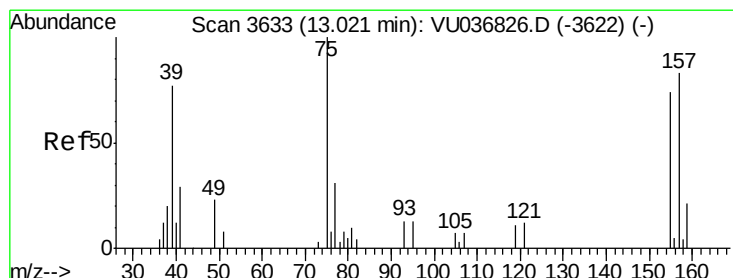
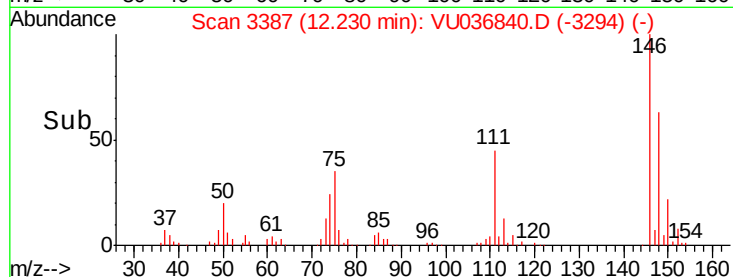
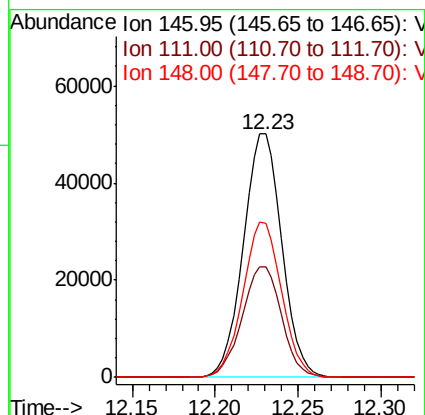
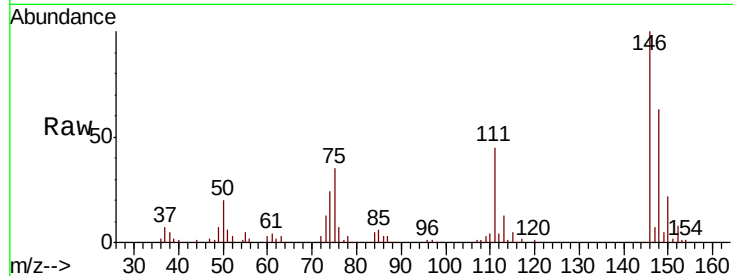




#65
 1,2-Dichlorobenzene
 Concen: 5.020 ug/L
 RT: 12.23 min Scan# 3387
 Delta R.T. -0.00 min
 Lab File: VU036840.D
 Acq: 18 Feb 2020 17:46

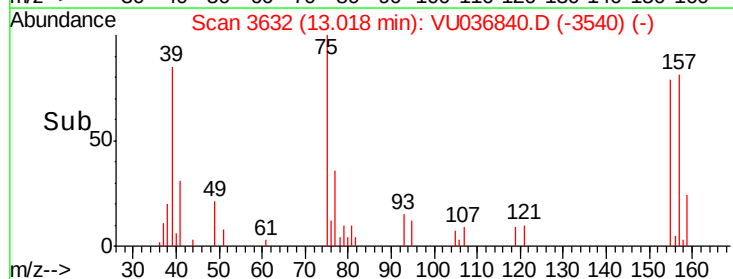
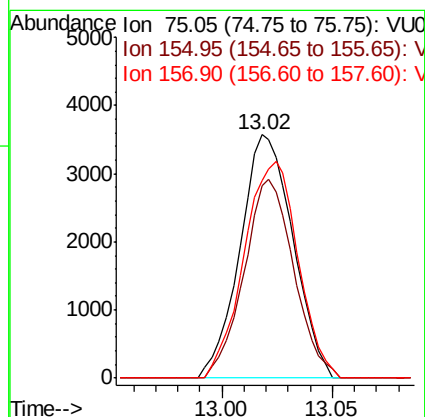
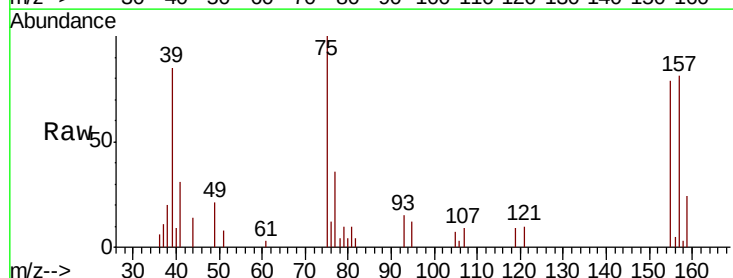
Instrument :
 MSVOA_U
 ClientSampleId :

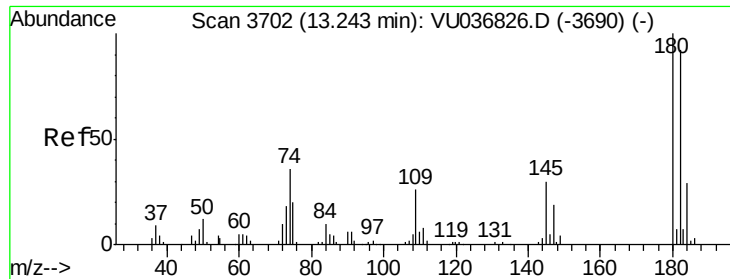
Tot Ion:146 Resp: 81082
 Ion Ratio Lower Upper
 146 100
 111 45.4 35.9 53.9
 148 63.1 50.4 75.6



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.943 ug/L
 RT: 13.02 min Scan# 3632
 Delta R.T. -0.00 min
 Lab File: VU036840.D
 Acq: 18 Feb 2020 17:46

Tgt Ion: 75 Resp: 5957
 Ion Ratio Lower Upper
 75 100
 155 78.8 52.9 79.3
 157 81.4 69.2 103.8

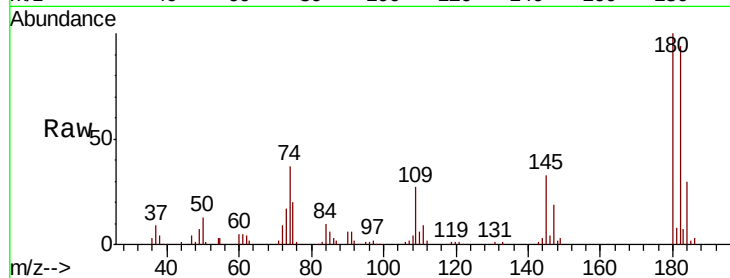




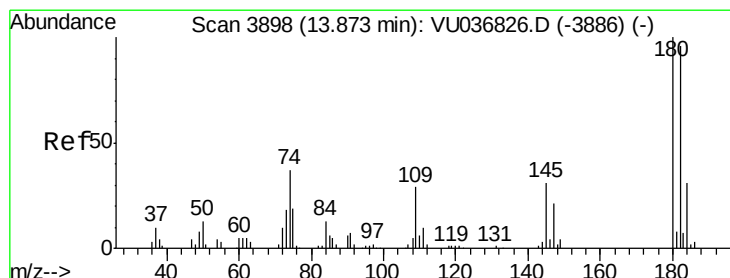
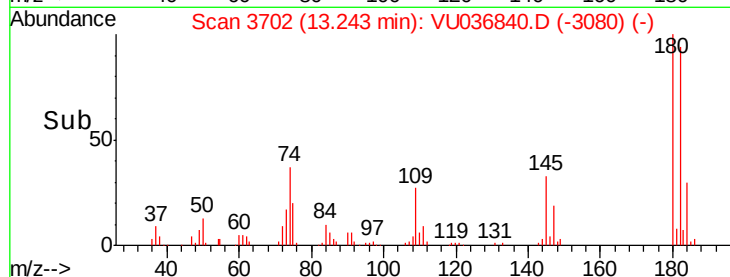
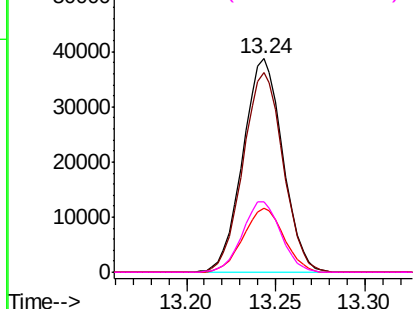
#67
 1,3,5-Trichlorobenzene
 Concen: 5.118 ug/L
 RT: 13.24 min Scan# 3702
 Delta R.T. -0.00 min
 Lab File: VU036840.D
 Acq: 18 Feb 2020 17:46

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion:180	Resp:	60357	
Ion	Ratio	Lower	Upper
180	100		
182	93.8	76.4	114.6
184	30.4	24.6	37.0
145	32.1	25.3	37.9

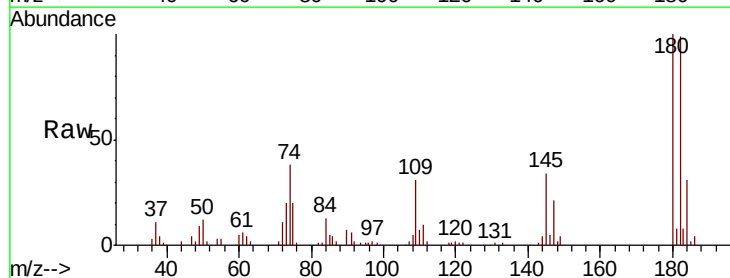


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

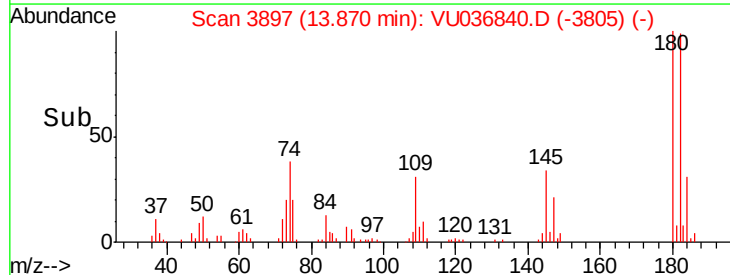
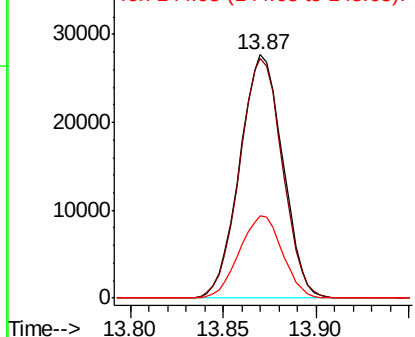


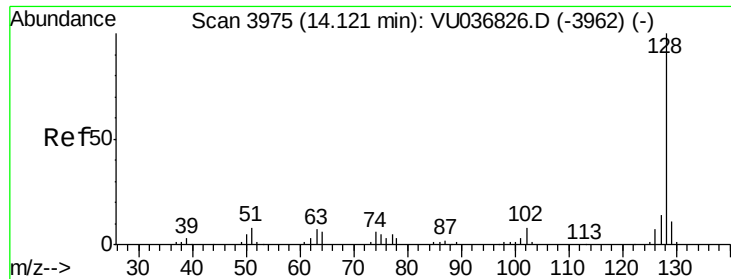
#68
 1,2,4-trichlorobenzene
 Concen: 5.022 ug/L
 RT: 13.87 min Scan# 3897
 Delta R.T. -0.00 min
 Lab File: VU036840.D
 Acq: 18 Feb 2020 17:46

Tgt Ion:180	Resp:	44668
Ion Ratio	Lower	Upper
180 100		
182 97.8	77.0	115.6
145 33.8	26.5	39.7



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 5.044 ug/L

RT: 14.12 min Scan# 3974

Delta R.T. -0.00 min

Lab File: VU036840.D

Acq: 18 Feb 2020 17:46

Instrument :

MSVOA_U

ClientSampleId :

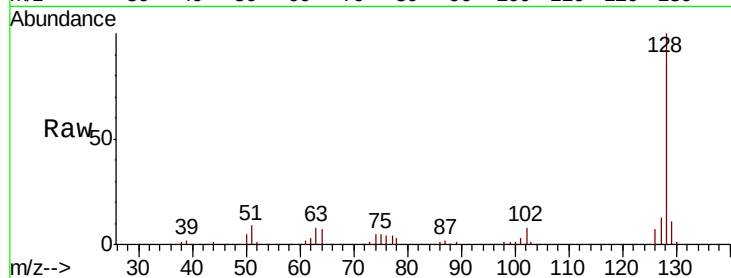
Tot Ion:128 Resp: 81272

Ion Ratio Lower Upper

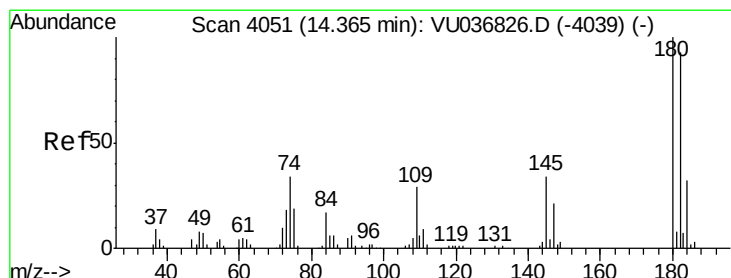
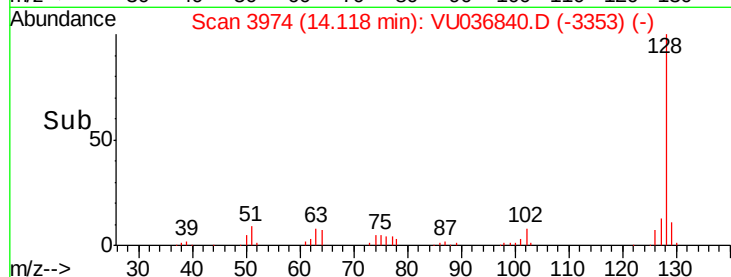
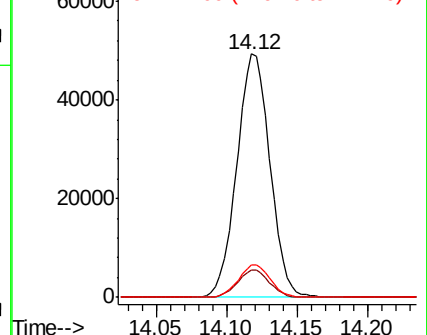
128 100

129 10.7 9.0 13.4

127 12.9 10.8 16.2



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: 5.354 ug/L

RT: 14.37 min Scan# 4051

Delta R.T. -0.00 min

Lab File: VU036840.D

Acq: 18 Feb 2020 17:46

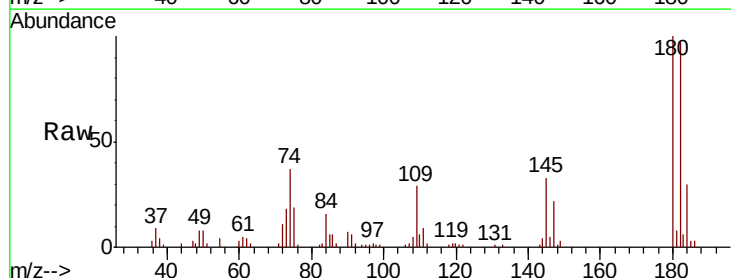
Tgt Ion:180 Resp: 42731

Ion Ratio Lower Upper

180 100

182 95.6 78.2 117.4

145 33.3 27.0 40.6



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

