

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU022120\
 Data File : VU036876.D
 Acq On : 21 Feb 2020 13:04
 Operator : JC/MD
 Sample : VSTDCCC005EC
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Feb 22 00:08:01 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR021220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Feb 22 00:05:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	134825	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	125465	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	56497	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	48920	4.22	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	84.40%
7) Chloroethane-d5	1.93	69	46390	4.61	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	92.20%
11) 1,1-Dichloroethene-d2	2.59	63	87084	4.50	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	90.00%
20) 2-Butanone-d5	4.68	46	134562	55.34	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	110.68%
24) Chloroform-d	5.11	84	89180	4.98	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.60%
26) 1,2-Dichloroethane-d4	5.74	65	48660	4.75	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.00%
32) Benzene-d6	5.76	84	186256	4.88	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.60%
36) 1,2-Dichloropropane-d6	6.73	67	60387	4.99	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	99.80%
41) Toluene-d8	7.93	98	170261	4.80	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.00%
43) trans-1,3-Dichloropropene-	8.21	79	21998	4.67	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	93.40%
46) 2-Hexanone-d5	8.66	63	111940	52.09	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	104.18%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	48162	5.04	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.80%
64) 1,2-Dichlorobenzene-d4	12.21	152	53605	4.75	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	42602	4.785 ug/L	99
3) Chloromethane	1.53	50	47709	5.148 ug/L	98
5) Vinyl chloride	1.62	62	51747	4.780 ug/L	97
6) Bromomethane	1.87	94	25357	3.898 ug/L	97
8) Chloroethane	1.95	64	34846	4.608 ug/L	99
9) Trichlorofluoromethane	2.16	101	65838	4.623 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	42401	4.662 ug/L	99
12) 1,1-Dichloroethene	2.60	96	38943	4.749 ug/L	95
13) Acetone	2.67	43	159397	51.266 ug/L	99
14) Carbon disulfide	2.82	76	87782	4.436 ug/L	100
15) Methyl Acetate	2.99	43	19969	4.840 ug/L	97
16) Methylene chloride	3.08	84	49519	3.582 ug/L	99
17) Methyl tert-butyl Ether	3.41	73	121302	4.994 ug/L	98
18) trans-1,2-Dichloroethene	3.39	96	40651	4.803 ug/L	98
19) 1,1-Dichloroethane	3.91	63	88188	4.969 ug/L	99
21) 2-Butanone	4.76	43	189341	52.350 ug/L	99
22) cis-1,2-Dichloroethene	4.71	96	50350	4.916 ug/L	94

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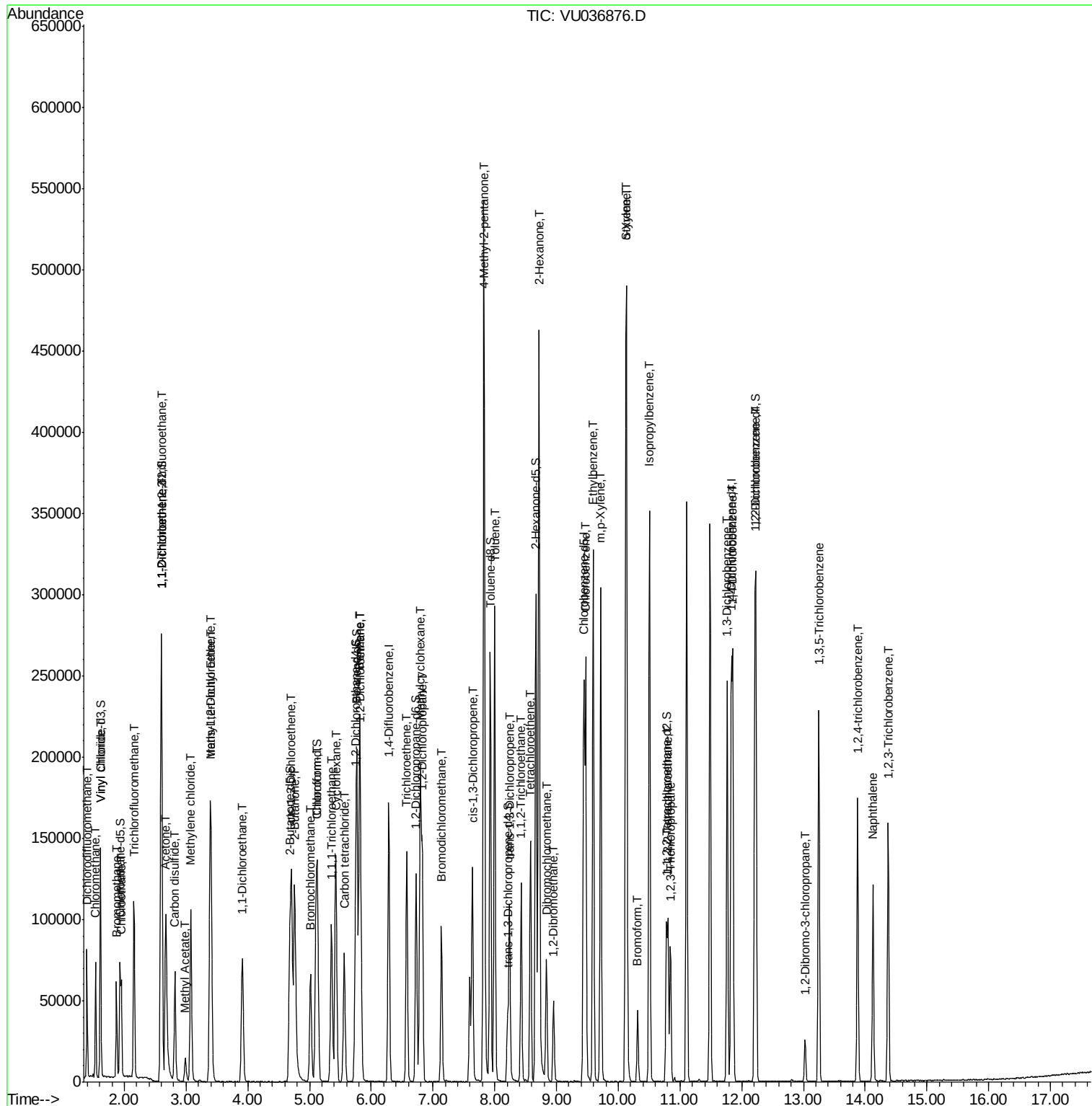
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	20404	5.012	ug/L	97
25) Chloroform	5.13	83	88973	4.694	ug/L	99
27) 1,2-Dichloroethane	5.83	62	58530	4.845	ug/L	99
29) 1,1,1-Trichloroethane	5.36	97	67247	4.880	ug/L	99
30) Cyclohexane	5.42	56	71286	4.870	ug/L	97
31) Carbon tetrachloride	5.56	117	50817	4.571	ug/L	99
33) Benzene	5.81	78	191583	4.951	ug/L	100
34) Trichloroethene	6.57	95	47860	4.856	ug/L	98
35) Methylcyclohexane	6.79	83	75026	4.797	ug/L	97
37) 1,2-Dichloropropane	6.83	63	53139	5.029	ug/L	99
38) Bromodichloromethane	7.14	83	61244	4.857	ug/L	96
39) cis-1,3-Dichloropropene	7.64	75	76531	5.005	ug/L	99
40) 4-Methyl-2-pentanone	7.83	43	351700	51.579	ug/L	100
42) Toluene	8.00	91	206559	4.970	ug/L	97
44) trans-1,3-Dichloropropene	8.24	75	58966	4.935	ug/L	99
45) 1,1,2-Trichloroethane	8.43	97	36948	5.026	ug/L	97
47) Tetrachloroethene	8.58	164	30256	4.512	ug/L	97
48) 2-Hexanone	8.72	43	302604	51.858	ug/L	99
49) Dibromochloromethane	8.84	129	36713	4.829	ug/L	98
50) 1,2-Dibromoethane	8.95	107	31677	4.771	ug/L	96
51) Chlorobenzene	9.47	112	125636	4.886	ug/L	99
52) Ethylbenzene	9.59	91	228142	4.915	ug/L	99
53) m,p-Xylene	9.72	106	82403	4.823	ug/L	94
54) o-Xylene	10.12	106	84402	5.031	ug/L	100
55) Styrene	10.14	104	137693	4.869	ug/L	99
56) Isopropylbenzene	10.51	105	221123	4.925	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.81	83	48042	4.993	ug/L	96
59) 1,2,3-Trichloropropane	10.84	75	34562	4.954	ug/L	99
61) Bromoform	10.31	173	18902	4.856	ug/L	98
62) 1,3-Dichlorobenzene	11.76	146	92415	4.748	ug/L	98
63) 1,4-Dichlorobenzene	11.86	146	92175	4.777	ug/L	97
65) 1,2-Dichlorobenzene	12.23	146	89735	4.782	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.03	75	6679	4.769	ug/L	95
67) 1,3,5-Trichlorobenzene	13.25	180	65354	4.769	ug/L	99
68) 1,2,4-trichlorobenzene	13.88	180	48433	4.687	ug/L	99
69) Naphthalene	14.13	128	93917	5.016	ug/L	99
70) 1,2,3-Trichlorobenzene	14.37	180	44875	4.839	ug/L	97

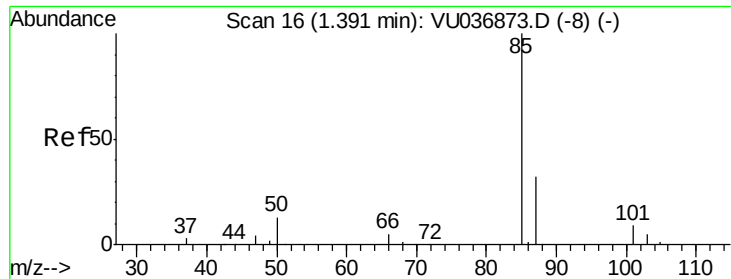
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 4.785 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU036876.D

Acq: 21 Feb 2020 13:04

Instrument :

MSVOA_U

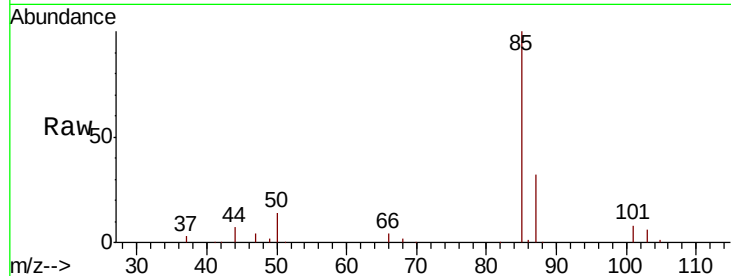
ClientSampleId :

Tot Ion: 85 Resp: 42602

Ion Ratio Lower Upper

85 100

87 31.3 25.7 38.5

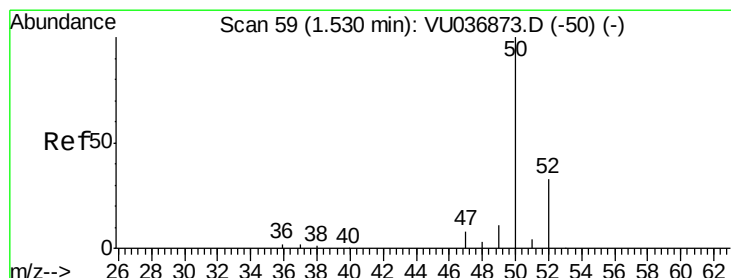
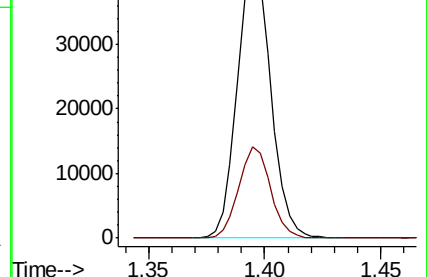
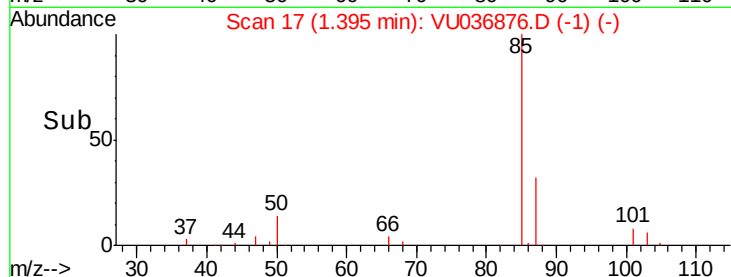


Abundance Ion 85.00 (84.70 to 85.70): VU036876.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VU036876.D (-8) (-)

1.39

Time-->



#3

Chloromethane

Concen: 5.148 ug/L

RT: 1.53 min Scan# 60

Delta R.T. 0.00 min

Lab File: VU036876.D

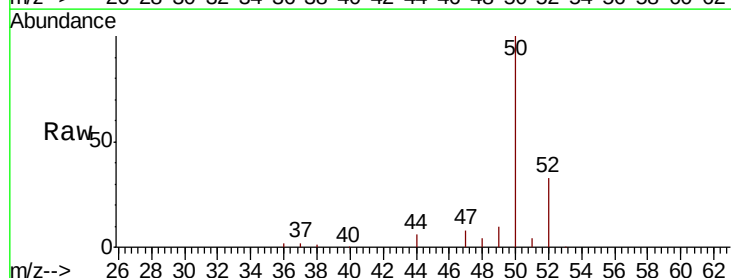
Acq: 21 Feb 2020 13:04

Tgt Ion: 50 Resp: 47709

Ion Ratio Lower Upper

50 100

52 32.7 23.8 44.2

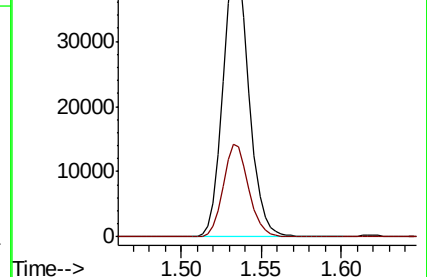
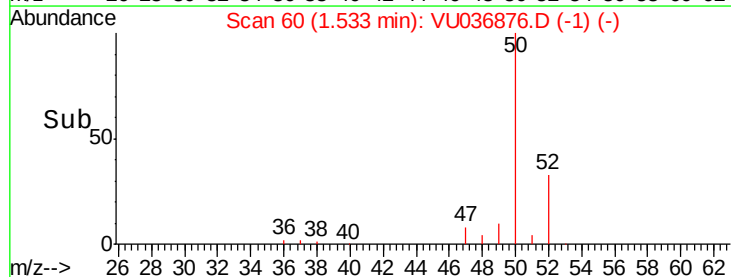


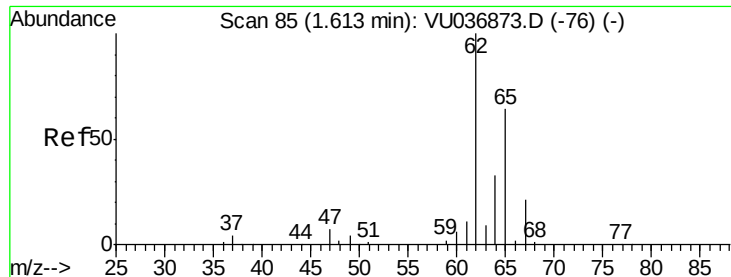
Abundance Ion 50.05 (49.75 to 50.75): VU036876.D (-50) (-)

Ion 52.05 (51.75 to 52.75): VU036876.D (-50) (-)

1.53

Time-->





#5

Vinyl chloride

Concen: 4.780 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU036876.D

Acq: 21 Feb 2020 13:04

Instrument :

MSVOA_U

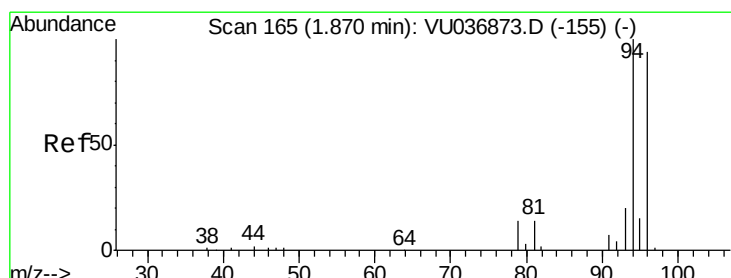
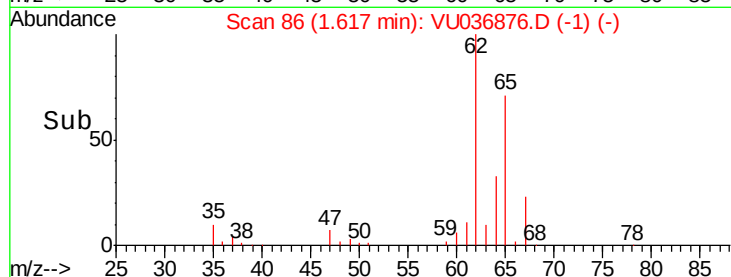
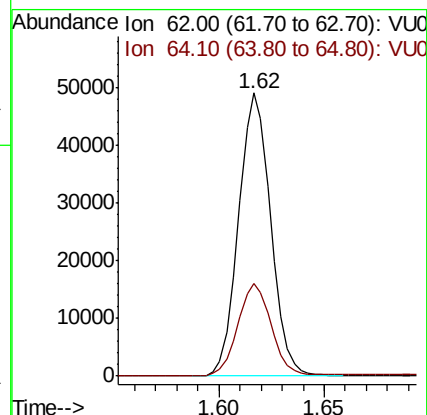
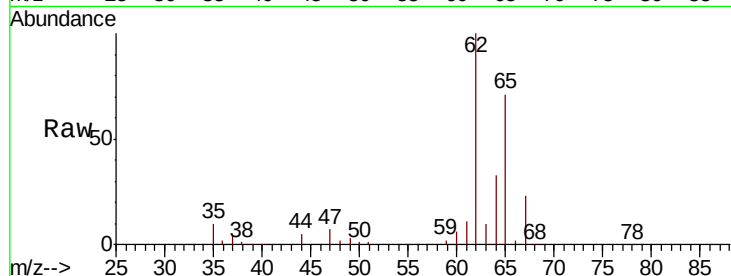
ClientSampled :

Tot Ion: 62 Resp: 51747

Ion Ratio Lower Upper

62 100

64 32.6 24.1 44.7



#6

Bromomethane

Concen: 3.898 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU036876.D

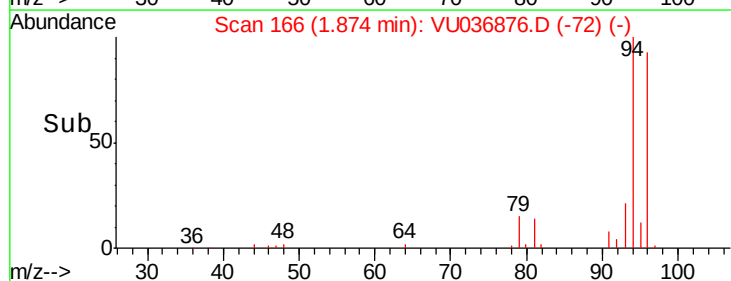
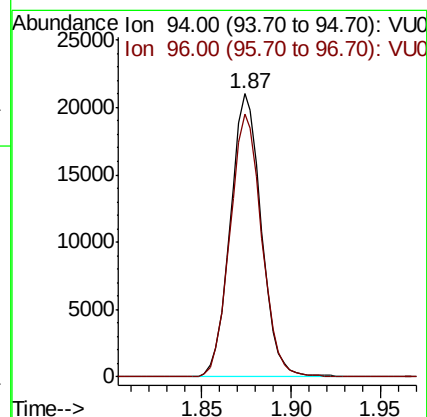
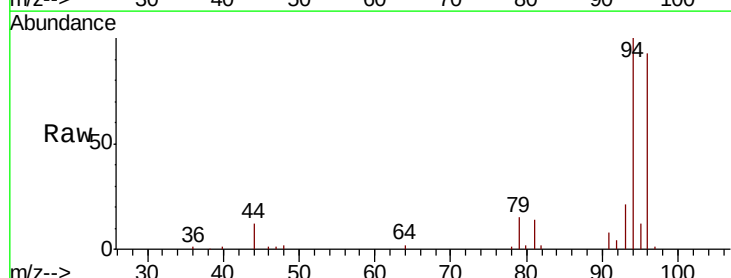
Acq: 21 Feb 2020 13:04

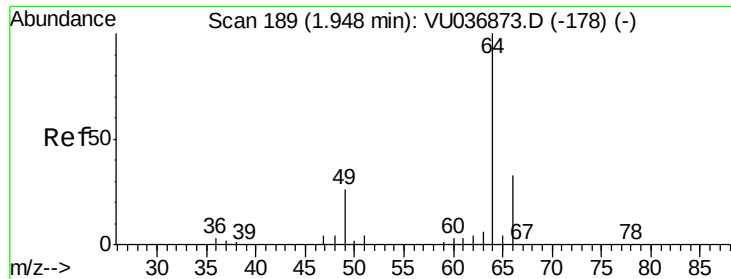
Tgt Ion: 94 Resp: 25357

Ion Ratio Lower Upper

94 100

96 92.9 63.3 117.7

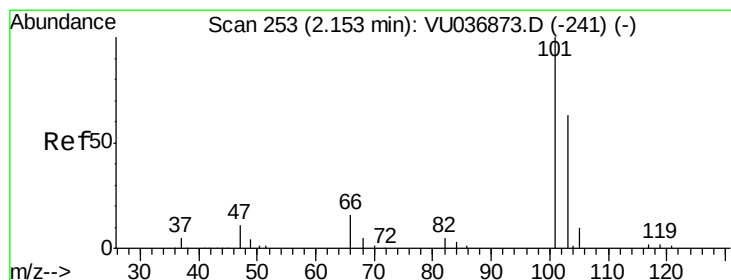
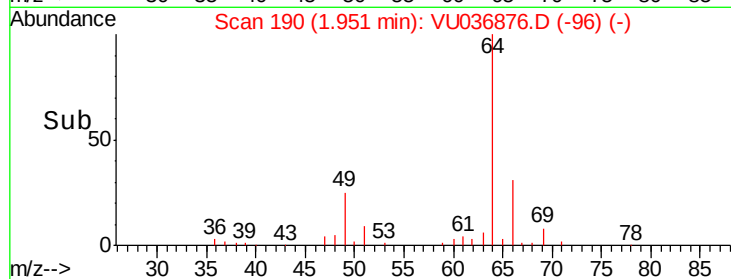
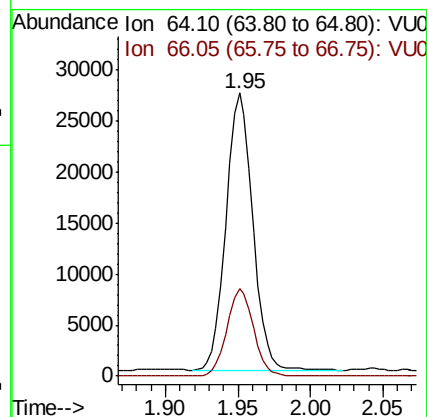
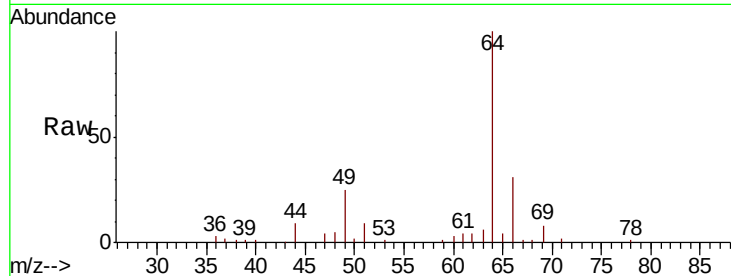




#8
Chloroethane
Concen: 4.608 ug/L
RT: 1.95 min Scan# 190
Delta R.T. 0.00 min
Lab File: VU036876.D
Acq: 21 Feb 2020 13:04

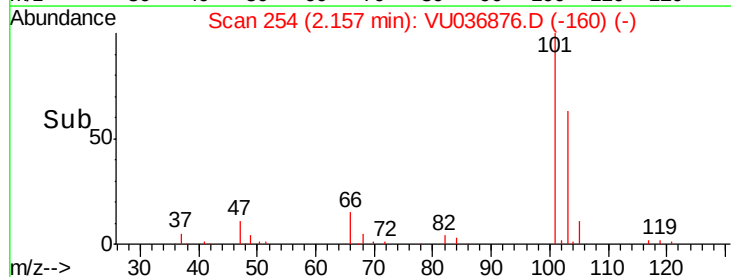
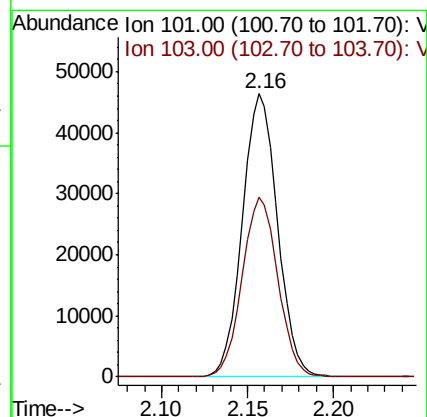
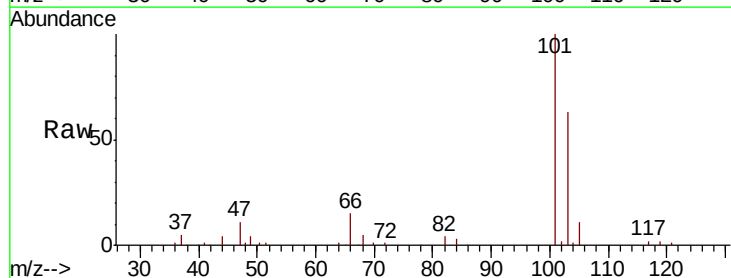
Instrument :
MSVOA_U
ClientSampleId :

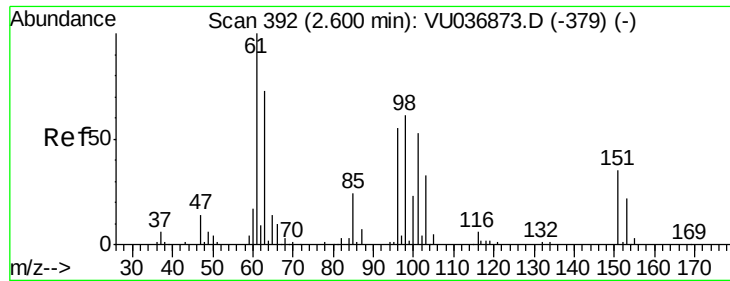
Tot Ion: 64 Resp: 34846
Ion Ratio Lower Upper
64 100
66 30.8 21.8 40.6



#9
Trichlorofluoromethane
Concen: 4.623 ug/L
RT: 2.16 min Scan# 254
Delta R.T. 0.00 min
Lab File: VU036876.D
Acq: 21 Feb 2020 13:04

Tgt Ion:101 Resp: 65838
Ion Ratio Lower Upper
101 100
103 64.5 51.0 76.6





#10

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

Concen: 4.662 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU036876.D

Acq: 21 Feb 2020 13:04

Instrument :

MSVOA_U

ClientSampled :

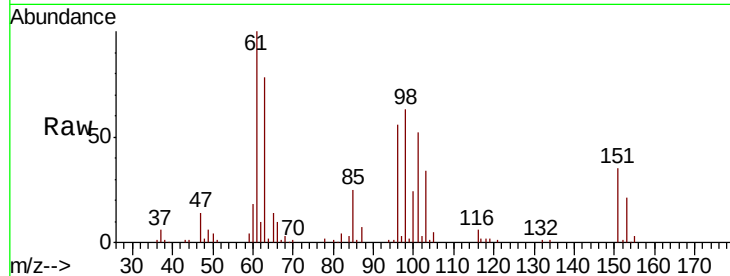
Tot Ion:101 Resp: 42401

Ion Ratio Lower Upper

101 100

85 45.4 36.4 54.6

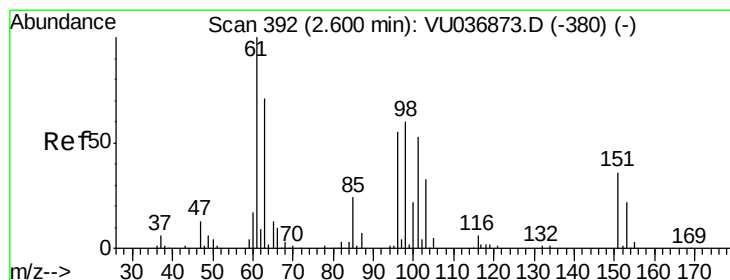
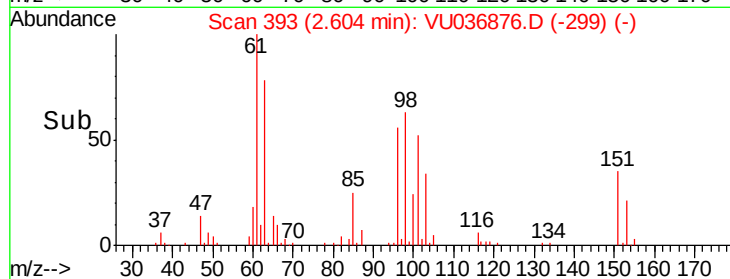
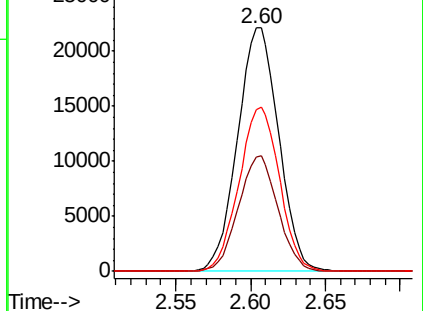
151 66.0 54.0 81.0



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: 4.749 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU036876.D

Acq: 21 Feb 2020 13:04

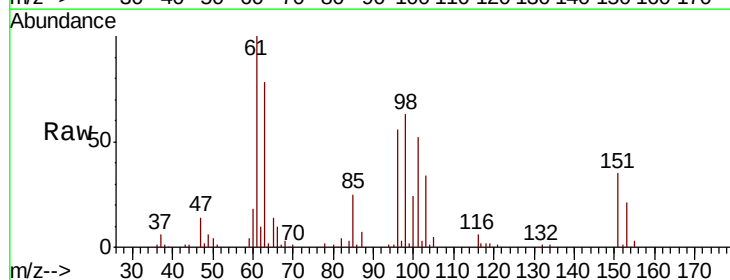
Tgt Ion: 96 Resp: 38943

Ion Ratio Lower Upper

96 100

61 177.9 126.4 234.8

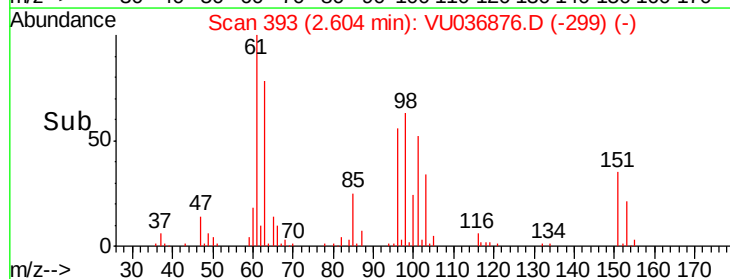
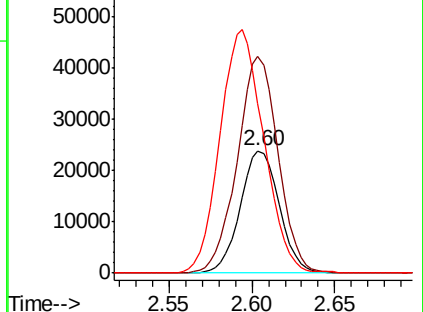
63 138.8 89.5 166.3

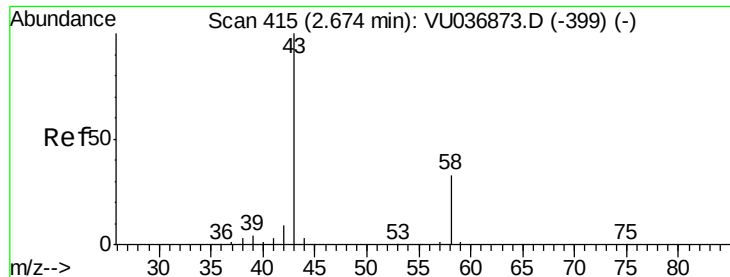


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 51.266 ug/L

RT: 2.67 min Scan# 414

Delta R.T. -0.00 min

Lab File: VU036876.D

Acq: 21 Feb 2020 13:04

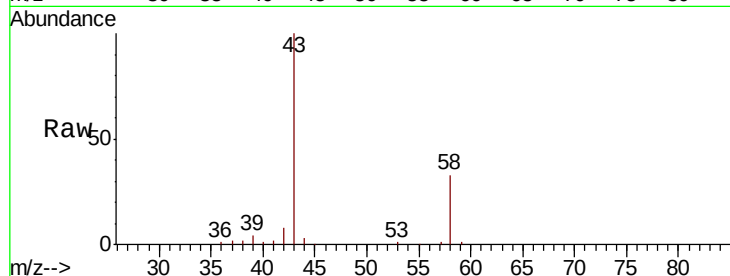
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 159397

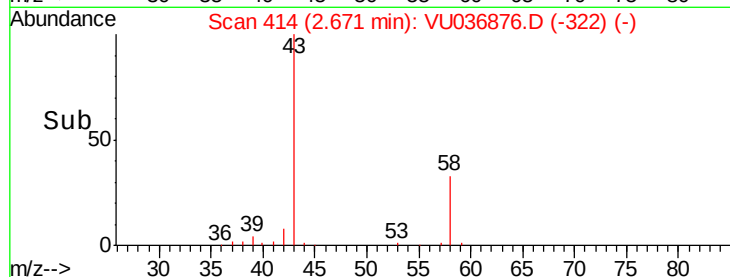
Ion Ratio Lower Upper

43 100

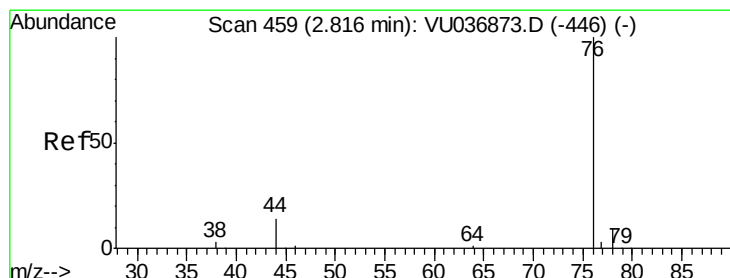
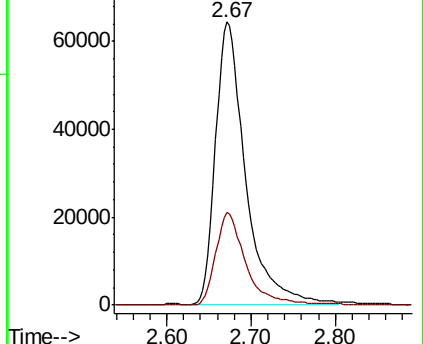
58 32.9 0.0 64.2



Abundance Ion 43.05 (42.75 to 43.75): VU036876.D (-322) (-)



Ion 58.05 (57.75 to 58.75): VU036876.D (-322) (-)



#14

Carbon disulfide

Concen: 4.436 ug/L

RT: 2.82 min Scan# 460

Delta R.T. 0.00 min

Lab File: VU036876.D

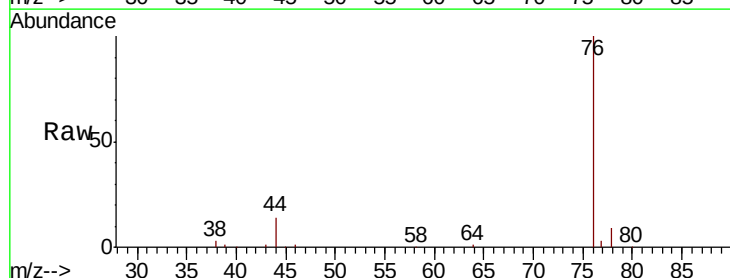
Acq: 21 Feb 2020 13:04

Tgt Ion: 76 Resp: 87782

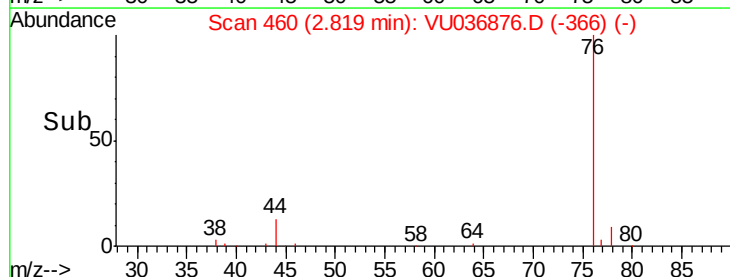
Ion Ratio Lower Upper

76 100

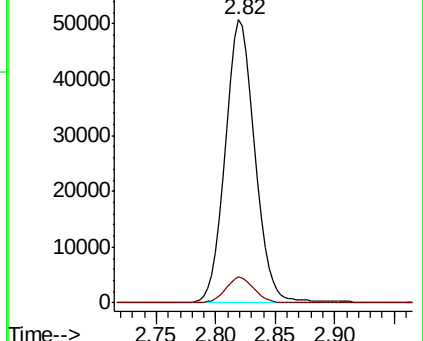
78 9.0 7.2 10.8

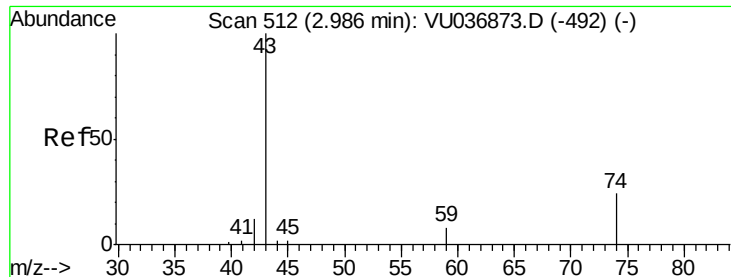


Abundance Ion 76.05 (75.75 to 76.75): VU036876.D (-366) (-)



Ion 78.00 (77.70 to 78.70): VU036876.D (-366) (-)

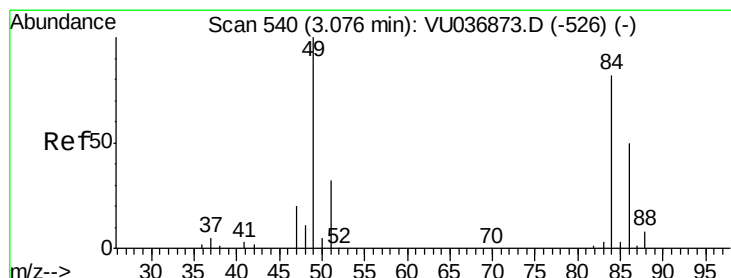
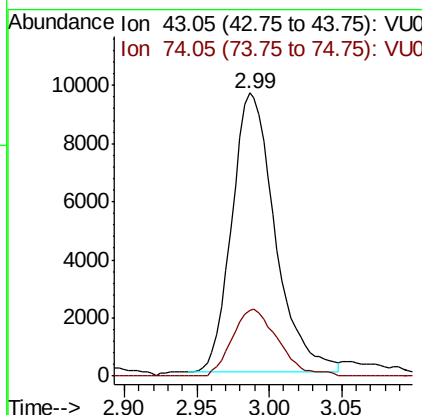
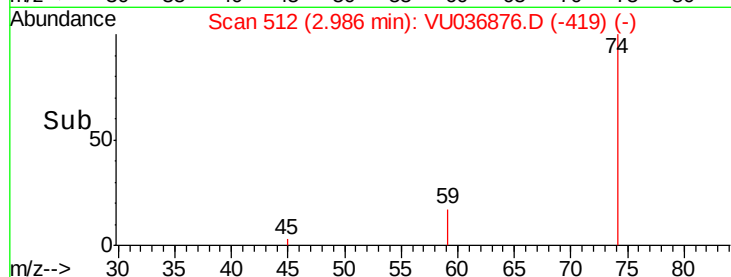
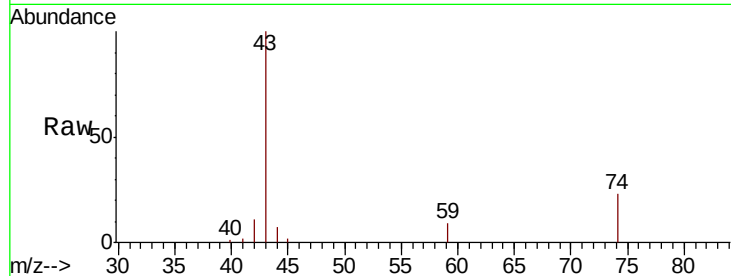




#15
Methyl Acetate
Concen: 4.840 ug/L
RT: 2.99 min Scan# 512
Delta R.T. 0.00 min
Lab File: VU036876.D
Acq: 21 Feb 2020 13:04

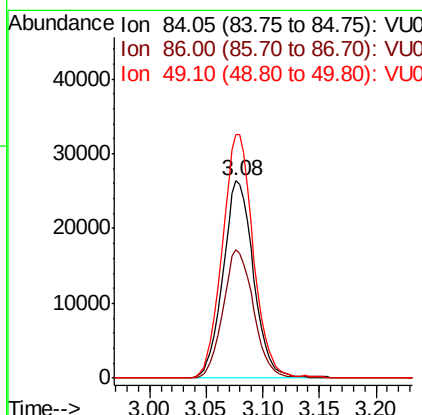
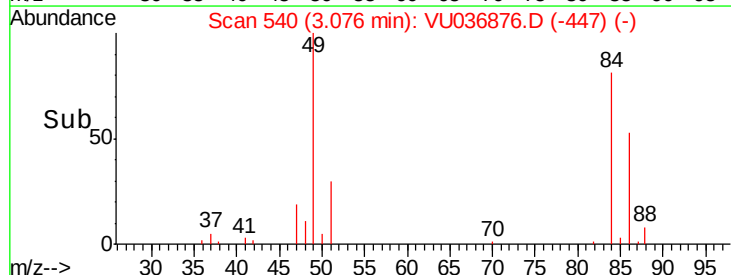
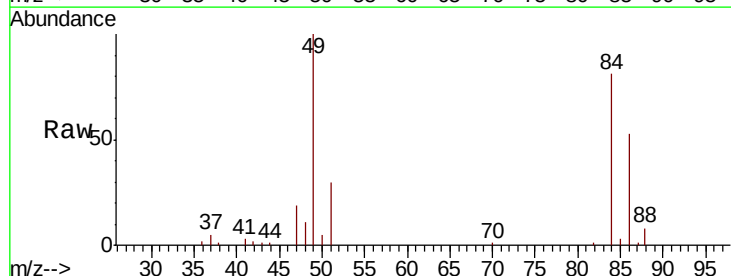
Instrument :
MSVOA_U
ClientSampled :

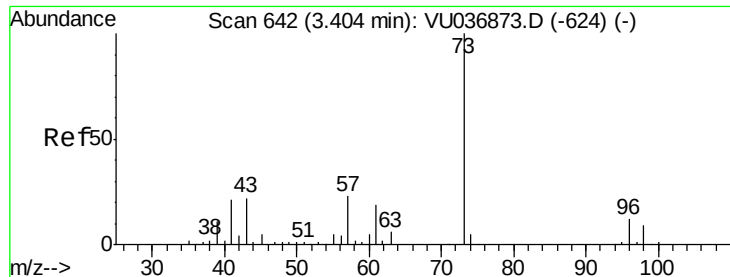
Tot Ion: 43 Resp: 19969
Ion Ratio Lower Upper
43 100
74 25.3 19.0 28.4



#16
Methylene chloride
Concen: 3.582 ug/L
RT: 3.08 min Scan# 540
Delta R.T. 0.00 min
Lab File: VU036876.D
Acq: 21 Feb 2020 13:04

Tgt Ion: 84 Resp: 49519
Ion Ratio Lower Upper
84 100
86 64.8 44.7 82.9
49 123.2 86.7 160.9



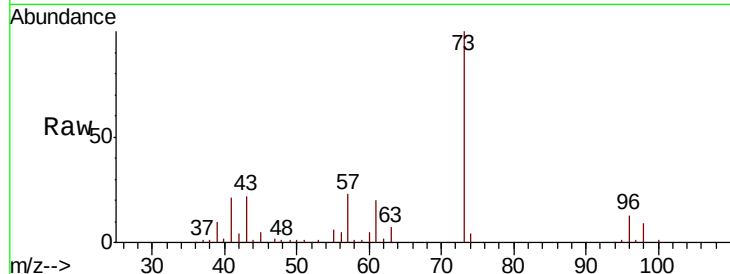


#17

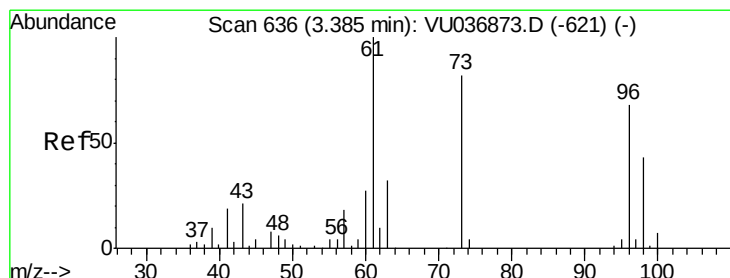
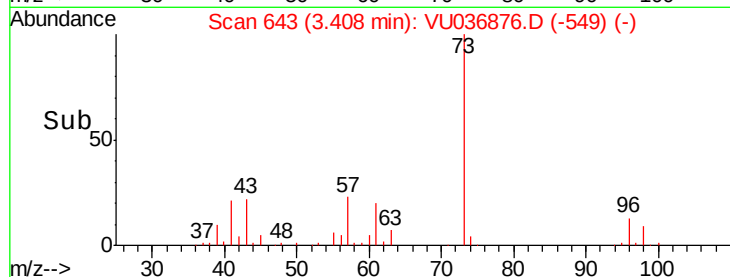
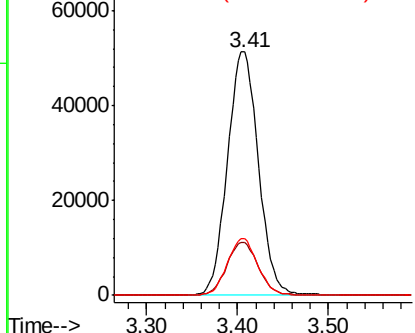
Methyl tert-butyl Ether
 Concen: 4.994 ug/L
 RT: 3.41 min Scan# 643
 Delta R.T. 0.00 min
 Lab File: VU036876.D
 Acq: 21 Feb 2020 13:04

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 73 Resp: 121302
 Ion Ratio Lower Upper
 73 100
 43 22.3 18.7 28.1
 57 23.0 17.9 26.9



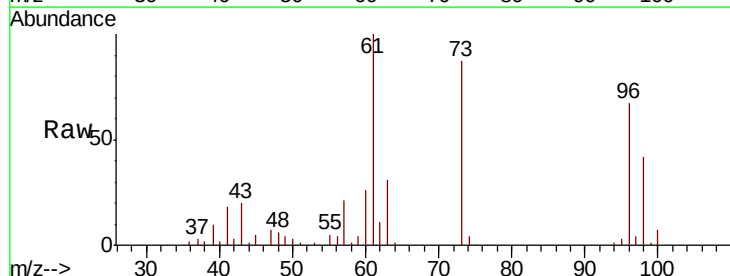
Abundance Ion 73.10 (72.80 to 73.80): VU0
 Ion 43.05 (42.75 to 43.75): VU0
 Ion 57.10 (56.80 to 57.80): VU0



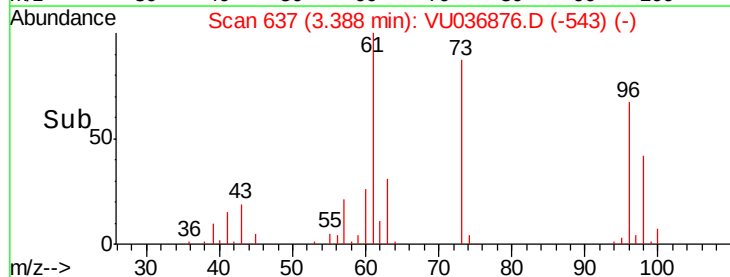
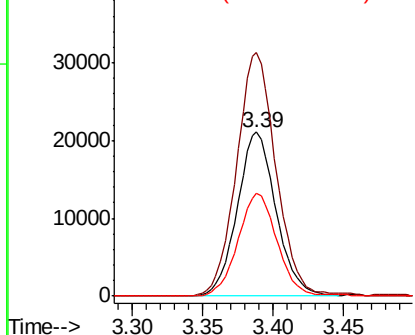
#18

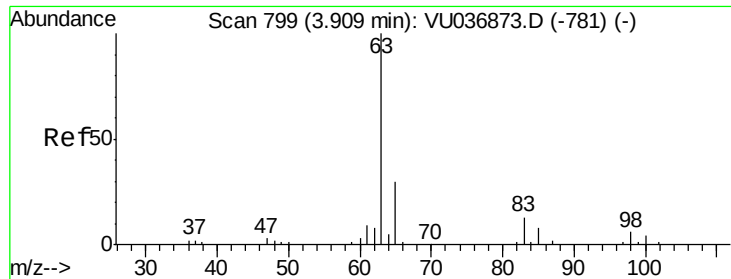
trans-1,2-Dichloroethene
 Concen: 4.803 ug/L
 RT: 3.39 min Scan# 637
 Delta R.T. 0.00 min
 Lab File: VU036876.D
 Acq: 21 Feb 2020 13:04

Tgt Ion: 96 Resp: 40651
 Ion Ratio Lower Upper
 96 100
 61 148.6 102.6 190.5
 98 62.7 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

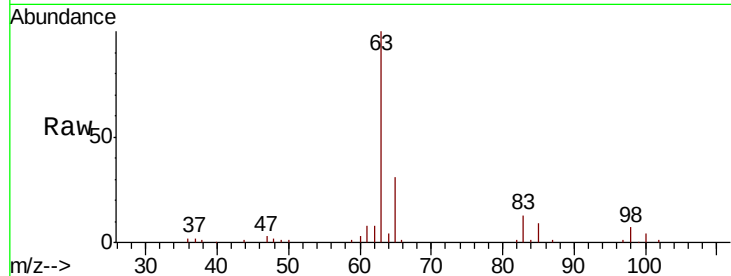




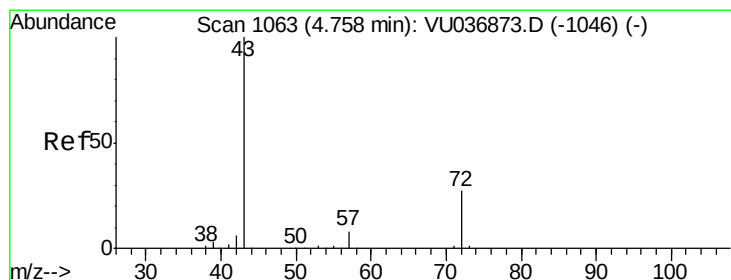
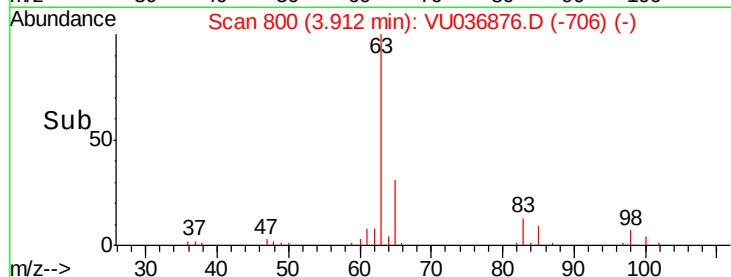
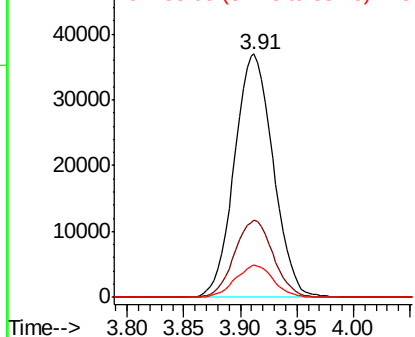
#19
 1,1-Dichloroethane
 Concen: 4.969 ug/L
 RT: 3.91 min Scan# 800
 Delta R.T. 0.00 min
 Lab File: VU036876.D
 Acq: 21 Feb 2020 13:04

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 63 Resp: 88188
 Ion Ratio Lower Upper
 63 100
 65 31.5 21.6 40.2
 83 13.2 8.8 16.3

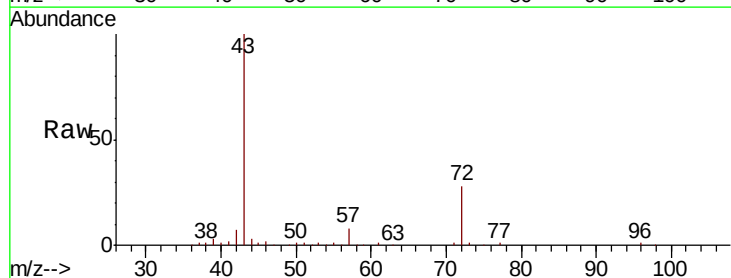


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

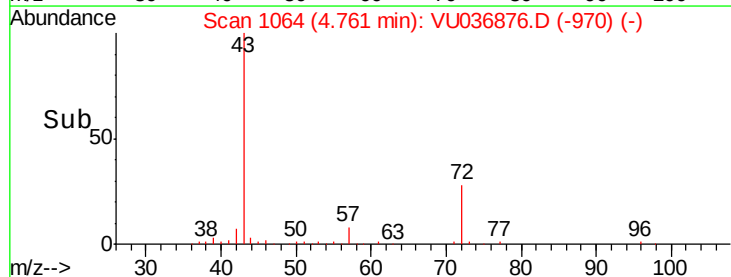
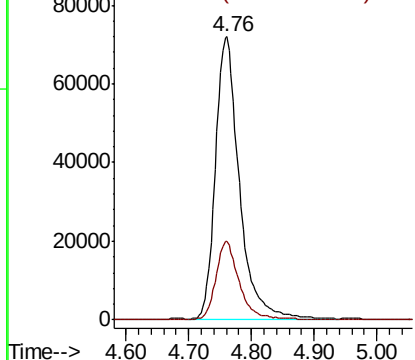


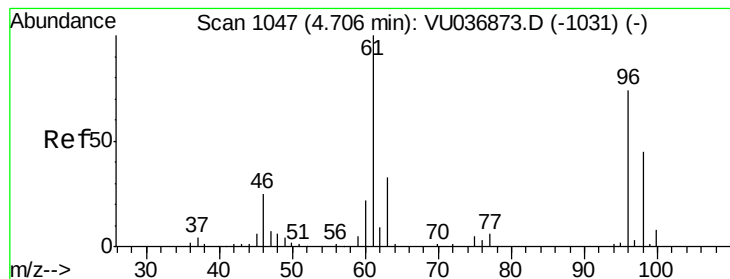
#21
 2-Butanone
 Concen: 52.350 ug/L
 RT: 4.76 min Scan# 1064
 Delta R.T. 0.00 min
 Lab File: VU036876.D
 Acq: 21 Feb 2020 13:04

Tgt Ion: 43 Resp: 189341
 Ion Ratio Lower Upper
 43 100
 72 27.4 14.0 41.9



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: 4.916 ug/L

RT: 4.71 min Scan# 1048

Delta R.T. 0.00 min

Lab File: VU036876.D

Acq: 21 Feb 2020 13:04

Instrument :
MSVOA_U
ClientSampleId :

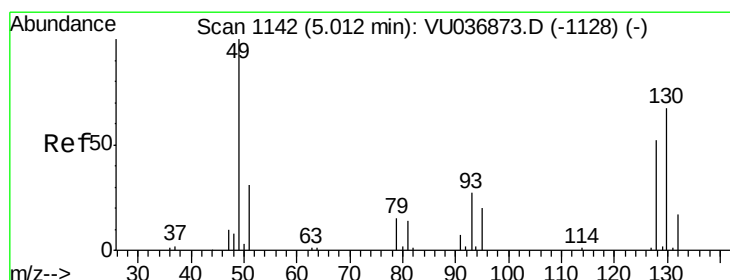
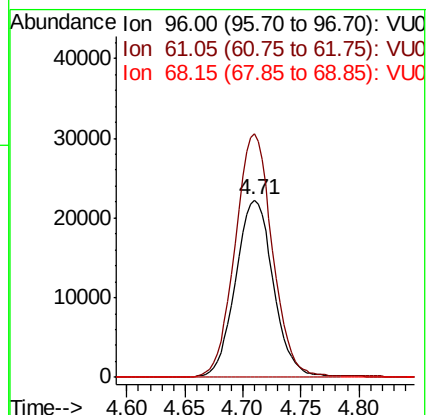
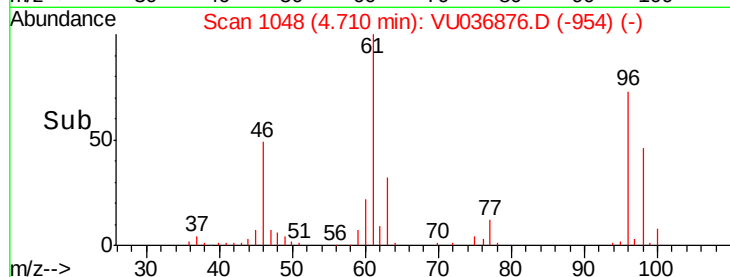
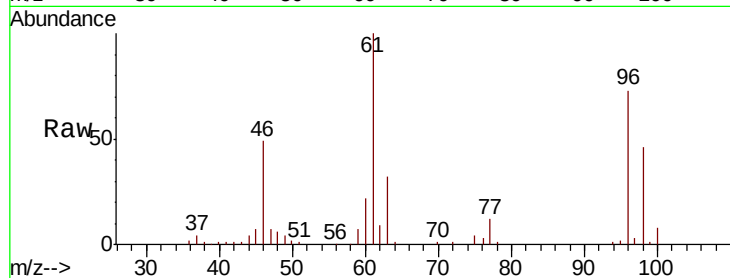
Tot Ion: 96 Resp: 50350

Ion Ratio Lower Upper

96 100

61 137.2 91.2 169.4

68 0.0 0.0 0.0



#23

Bromochloromethane

Concen: 5.012 ug/L

RT: 5.02 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VU036876.D

Acq: 21 Feb 2020 13:04

Tgt Ion:128 Resp: 20404

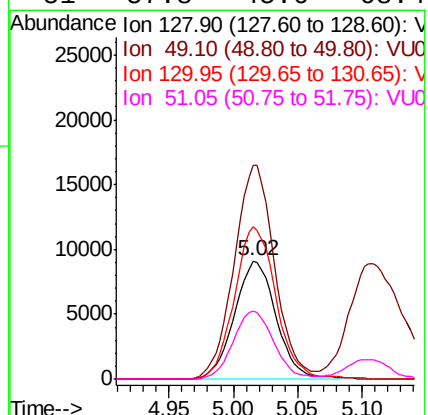
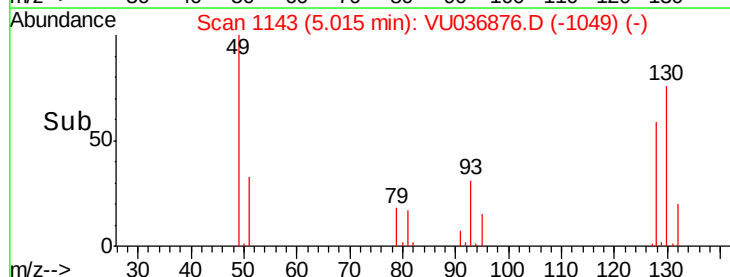
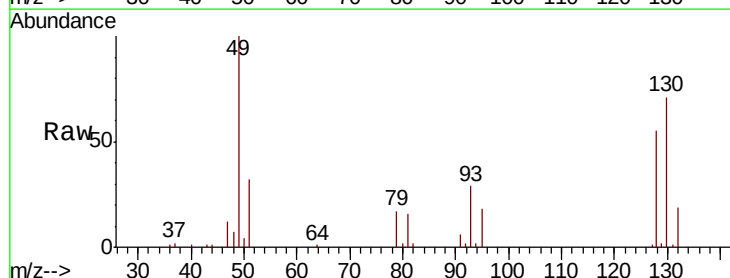
Ion Ratio Lower Upper

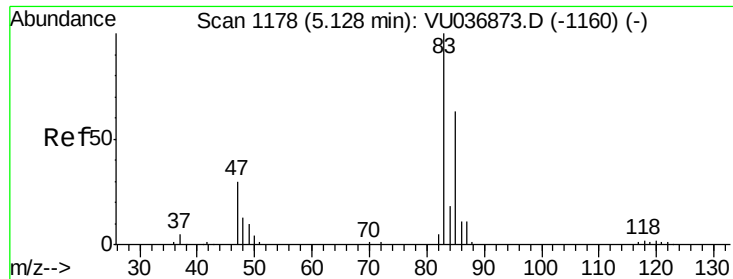
128 100

49 181.2 132.4 245.8

130 129.1 89.0 165.2

51 57.8 45.6 68.4

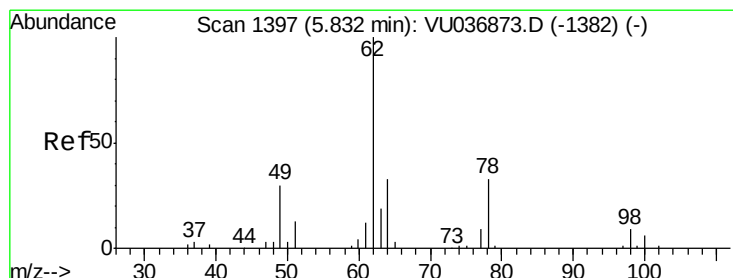
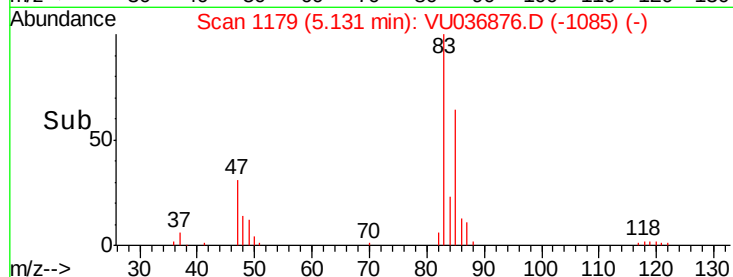
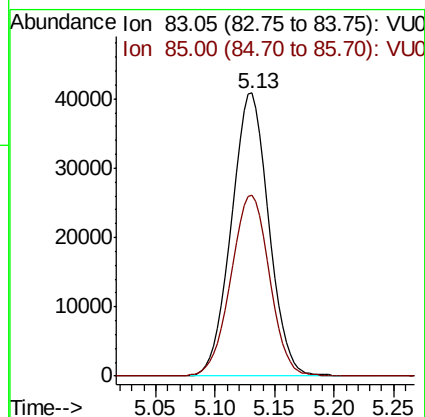
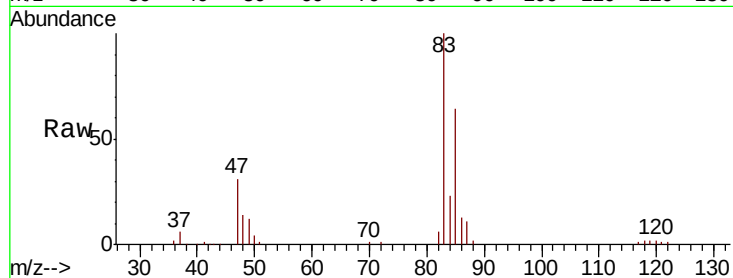




#25
Chloroform
Concen: 4.694 ug/L
RT: 5.13 min Scan# 1179
Delta R.T. 0.00 min
Lab File: VU036876.D
Acq: 21 Feb 2020 13:04

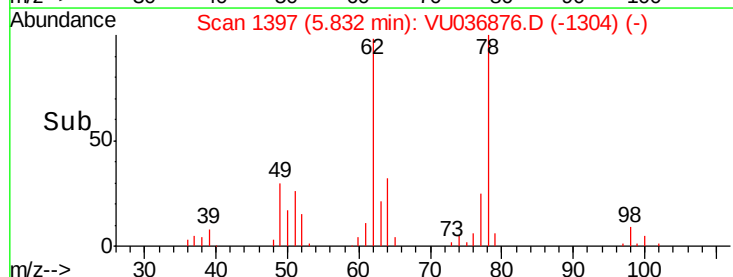
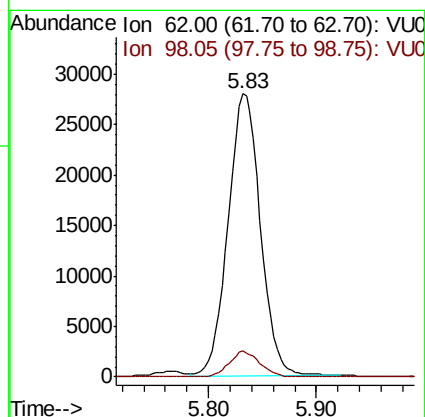
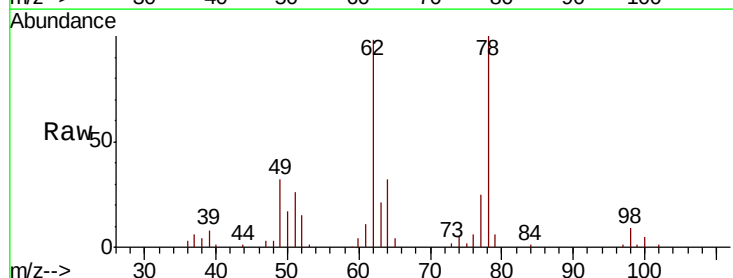
Instrument :
MSVOA_U
ClientSampleId :

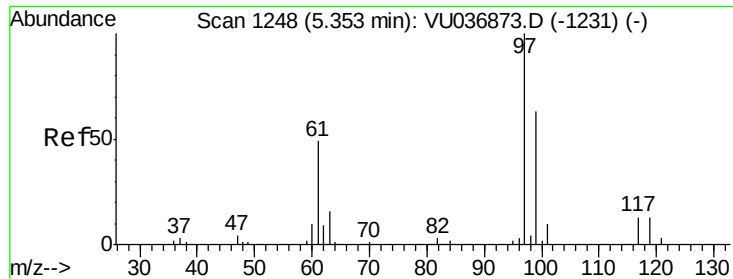
Tot Ion: 83 Resp: 88973
Ion Ratio Lower Upper
83 100
85 64.1 45.4 84.2



#27
1,2-Dichloroethane
Concen: 4.845 ug/L
RT: 5.83 min Scan# 1397
Delta R.T. 0.00 min
Lab File: VU036876.D
Acq: 21 Feb 2020 13:04

Tgt Ion: 62 Resp: 58530
Ion Ratio Lower Upper
62 100
98 9.0 7.0 10.4

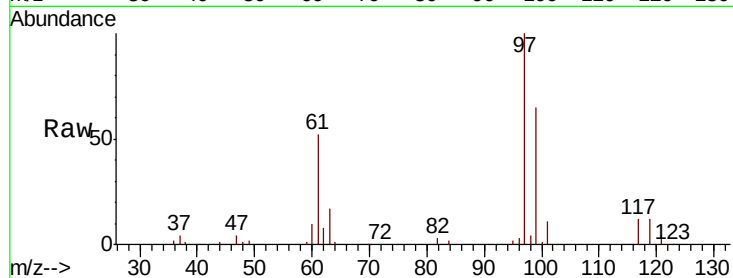




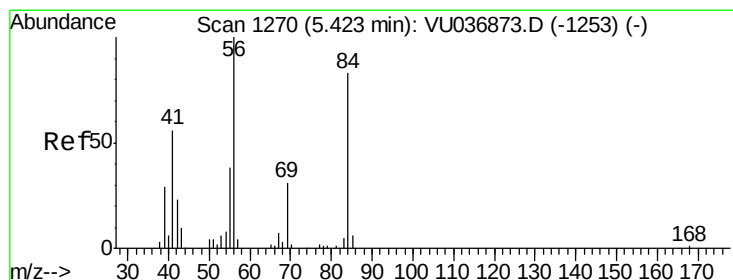
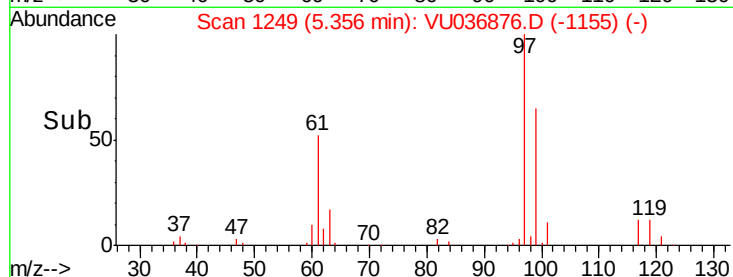
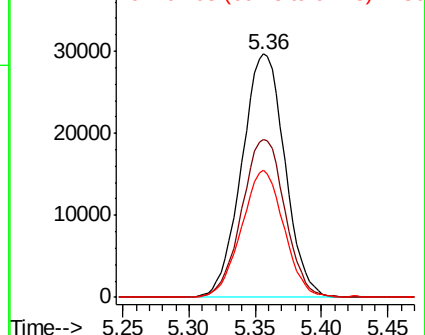
#29
 1,1,1-Trichloroethane
 Concen: 4.880 ug/L
 RT: 5.36 min Scan# 1249
 Delta R.T. 0.00 min
 Lab File: VU036876.D
 Acq: 21 Feb 2020 13:04

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion: 97 Resp: 67247
 Ion Ratio Lower Upper
 97 100
 99 65.0 51.0 76.4
 61 51.3 41.6 62.4

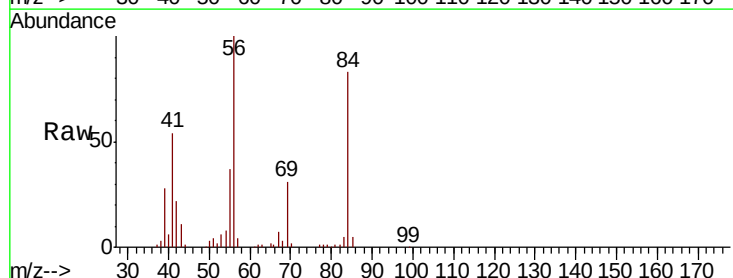


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

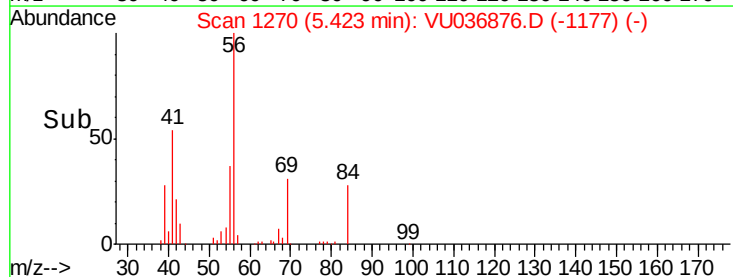
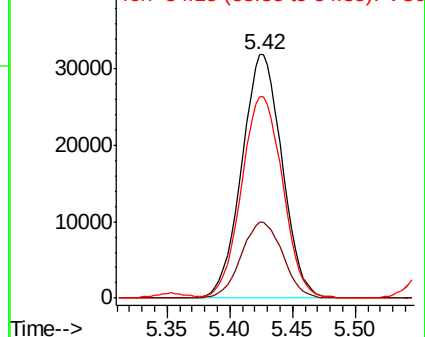


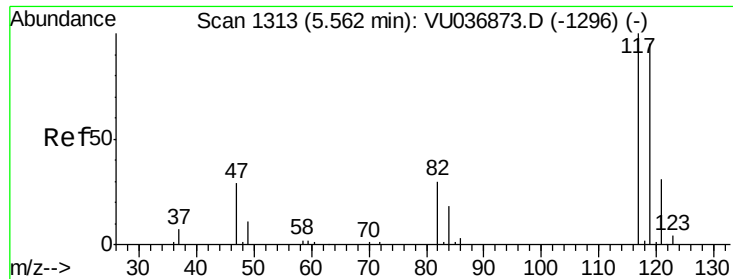
#30
 Cyclohexane
 Concen: 4.870 ug/L
 RT: 5.42 min Scan# 1270
 Delta R.T. 0.00 min
 Lab File: VU036876.D
 Acq: 21 Feb 2020 13:04

Tgt Ion: 56 Resp: 71286
 Ion Ratio Lower Upper
 56 100
 69 31.9 24.6 37.0
 84 84.3 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: 4.571 ug/L

RT: 5.56 min Scan# 1313

Delta R.T. 0.00 min

Lab File: VU036876.D

Acq: 21 Feb 2020 13:04

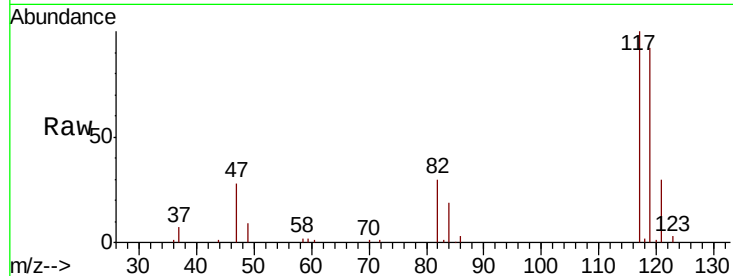
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:117 Resp: 50817

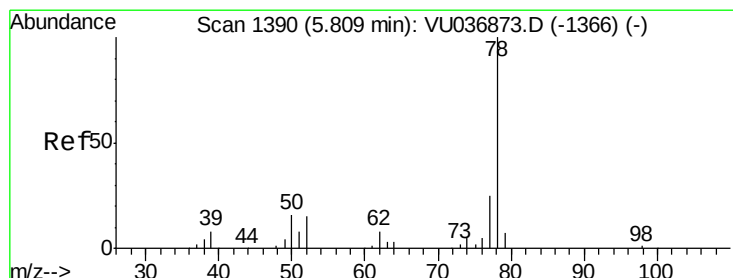
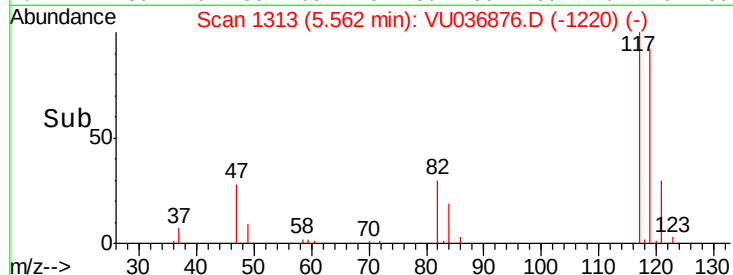
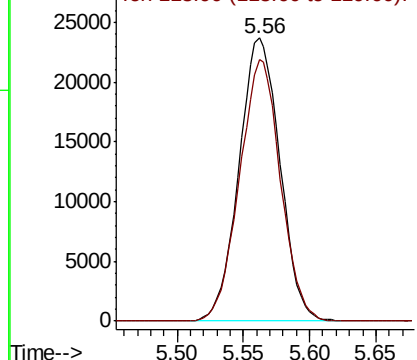
Ion Ratio Lower Upper

117 100

119 92.5 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: 4.951 ug/L

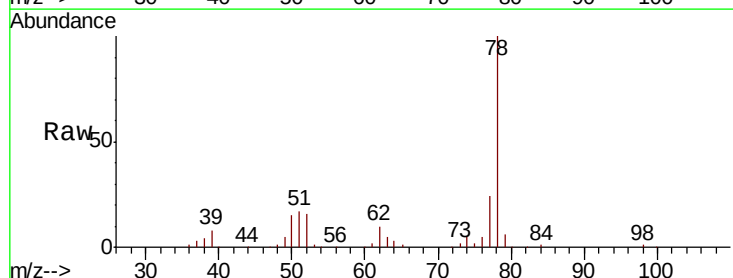
RT: 5.81 min Scan# 1391

Delta R.T. 0.00 min

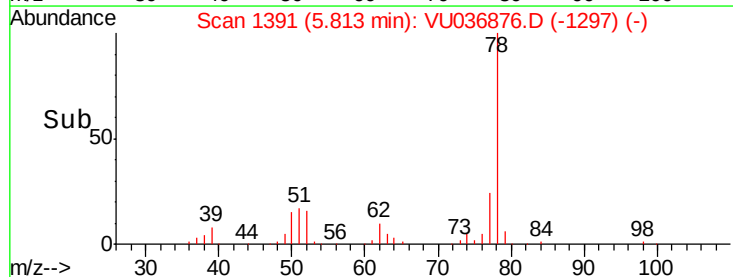
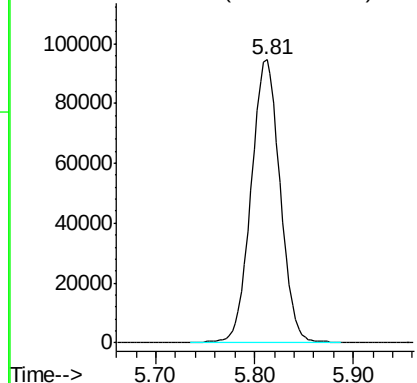
Lab File: VU036876.D

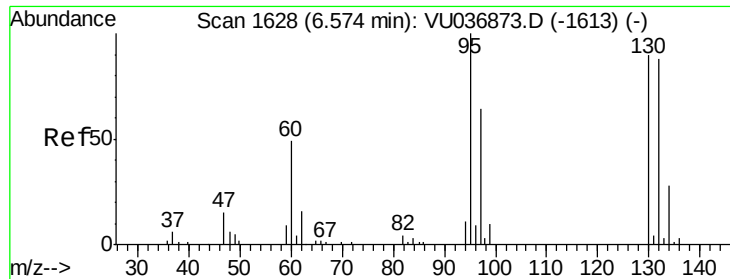
Acq: 21 Feb 2020 13:04

Tgt Ion: 78 Resp: 191583



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 4.856 ug/L

RT: 6.57 min Scan# 1628

Delta R.T. 0.00 min

Lab File: VU036876.D

Acq: 21 Feb 2020 13:04

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 47860

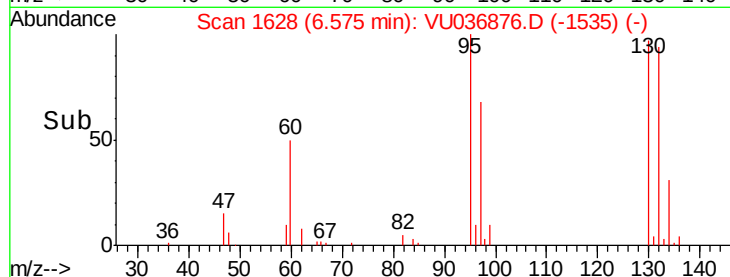
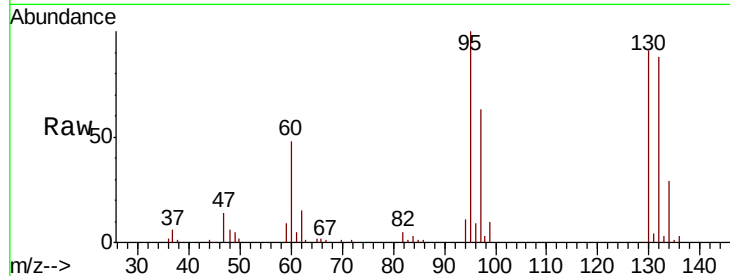
Ion Ratio Lower Upper

95 100

97 63.2 45.6 84.8

132 87.6 62.8 116.6

130 90.5 63.8 118.4



Abundance Ion 95.00 (94.70 to 95.70): VU036876.D (-1535) (-)

Ion 96.95 (96.65 to 97.65): VU036876.D (-1535) (-)

Ion 131.95 (131.65 to 132.65): VU036876.D (-1535) (-)

Ion 129.95 (129.65 to 130.65): VU036876.D (-1535) (-)

Time-->

6.57

40000

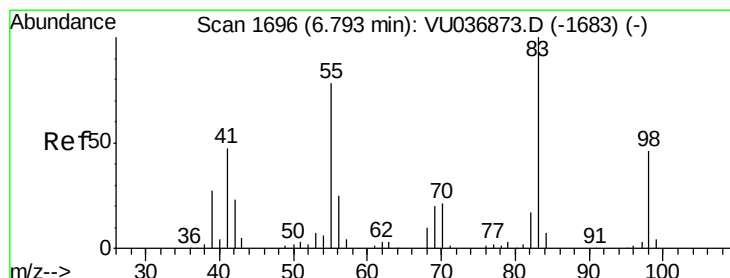
30000

20000

10000

0

6.50 6.55 6.60 6.65



#35

Methylcyclohexane

Concen: 4.797 ug/L

RT: 6.79 min Scan# 1696

Delta R.T. 0.00 min

Lab File: VU036876.D

Acq: 21 Feb 2020 13:04

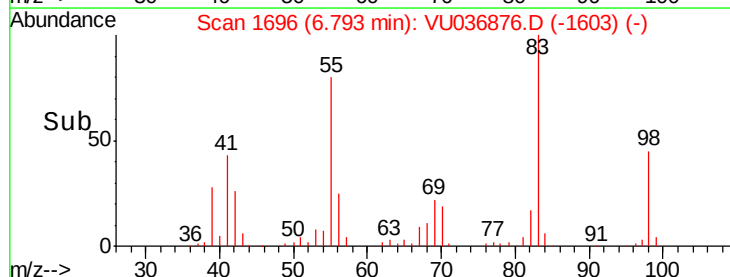
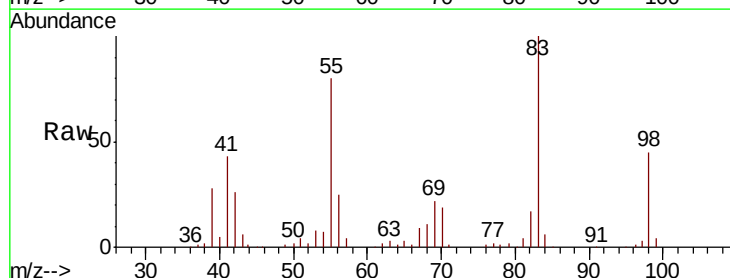
Tgt Ion: 83 Resp: 75026

Ion Ratio Lower Upper

83 100

55 78.7 61.0 91.4

98 44.6 34.2 51.4



Abundance Ion 83.15 (82.85 to 83.85): VU036876.D (-1603) (-)

Ion 55.10 (54.80 to 55.80): VU036876.D (-1603) (-)

Ion 98.15 (97.85 to 98.85): VU036876.D (-1603) (-)

Time-->

6.79

50000

40000

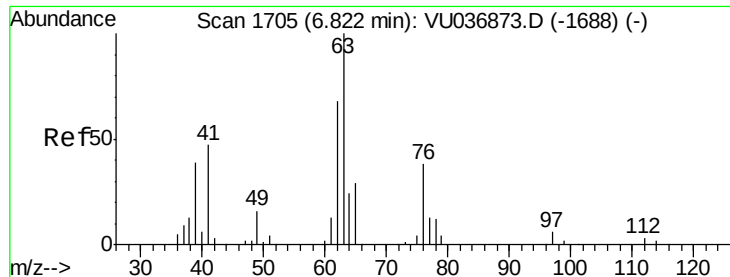
30000

20000

10000

0

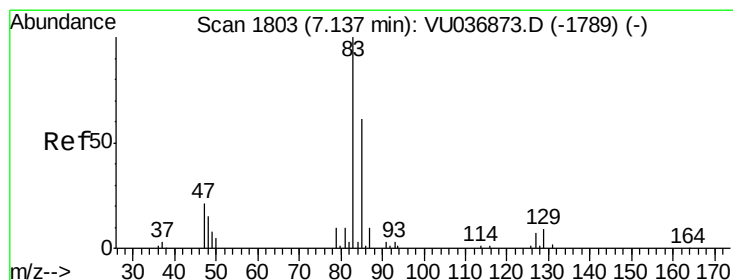
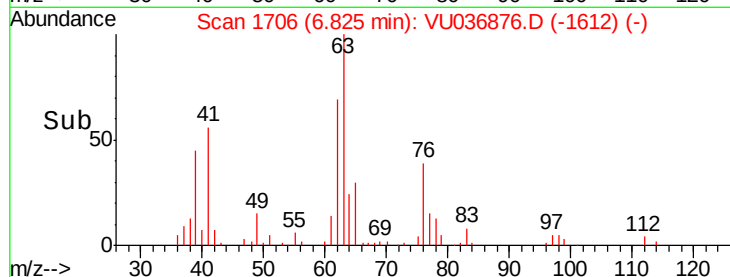
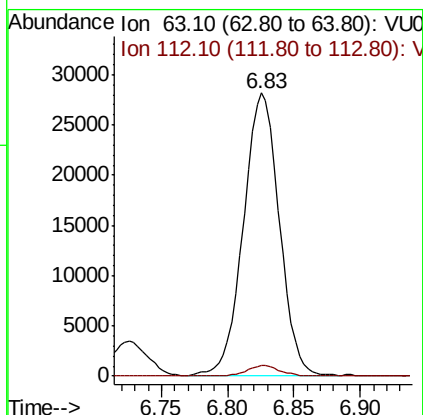
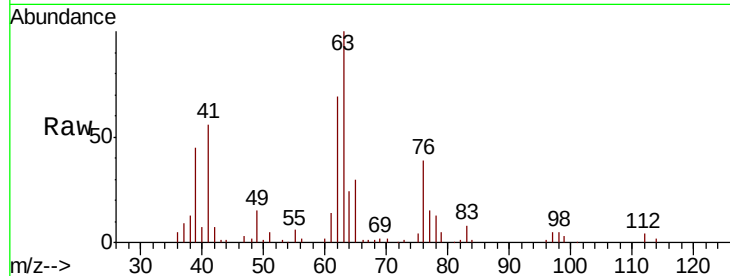
6.75 6.80 6.85



#37
 1,2-Dichloropropane
 Concen: 5.029 ug/L
 RT: 6.83 min Scan# 1706
 Delta R.T. 0.00 min
 Lab File: VU036876.D
 Acq: 21 Feb 2020 13:04

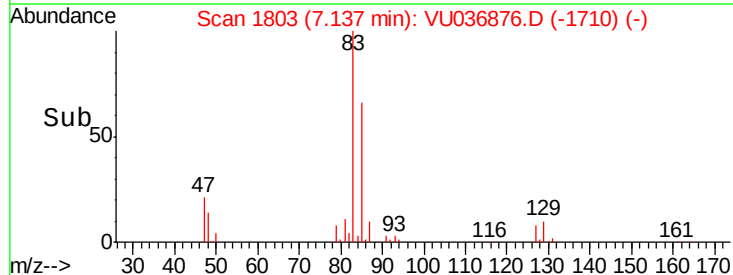
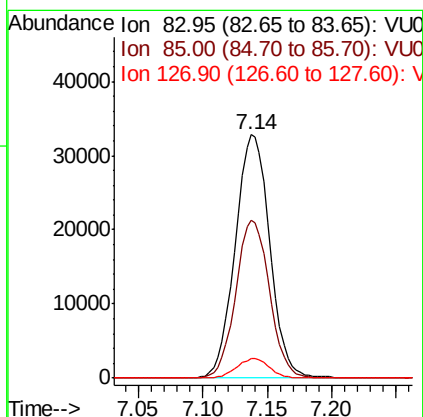
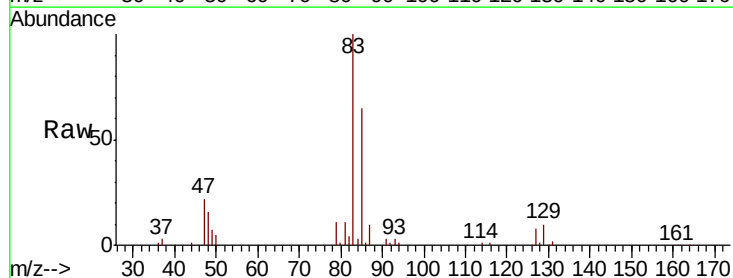
Instrument :
 MSVOA_U
 ClientSampleId :

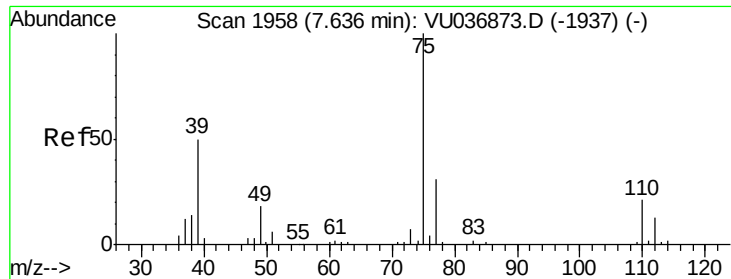
Tot Ion: 63 Resp: 53139
 Ion Ratio Lower Upper
 63 100
 112 3.4 3.0 4.4



#38
 Bromodichloromethane
 Concen: 4.857 ug/L
 RT: 7.14 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VU036876.D
 Acq: 21 Feb 2020 13:04

Tgt Ion: 83 Resp: 61244
 Ion Ratio Lower Upper
 83 100
 85 65.1 43.0 80.0
 127 7.8 6.3 9.5

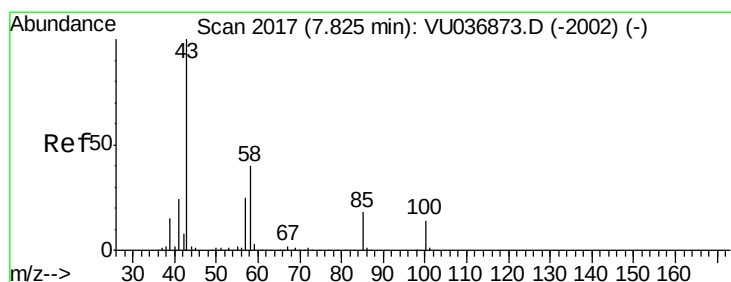
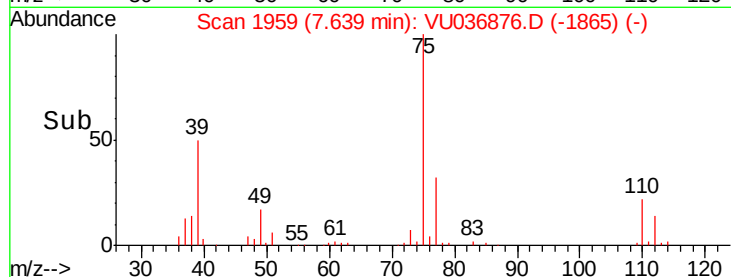
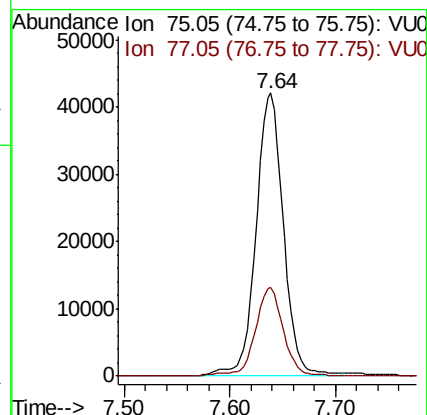
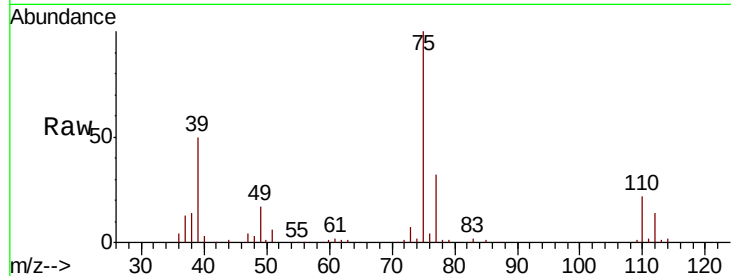




#39
 cis-1,3-Dichloropropene
 Concen: 5.005 ug/L
 RT: 7.64 min Scan# 1959
 Delta R.T. 0.00 min
 Lab File: VU036876.D
 Acq: 21 Feb 2020 13:04

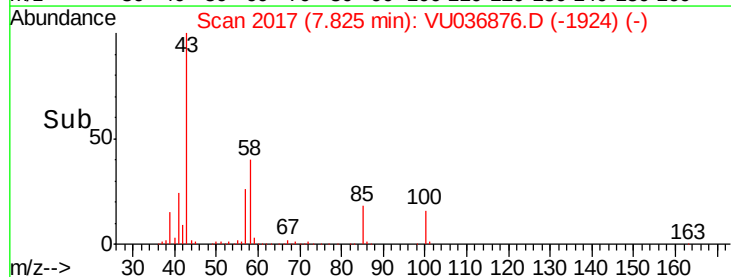
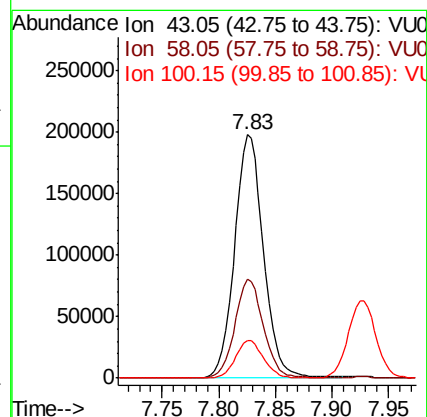
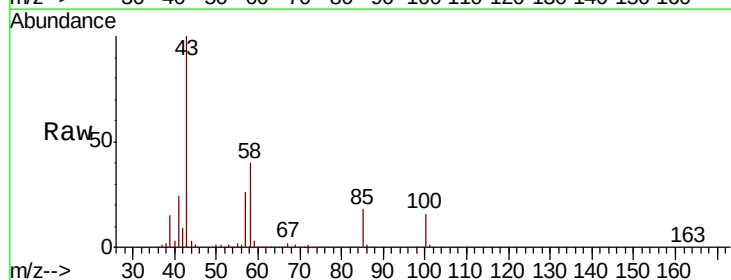
Instrument :
 MSVOA_U
 ClientSampleId :

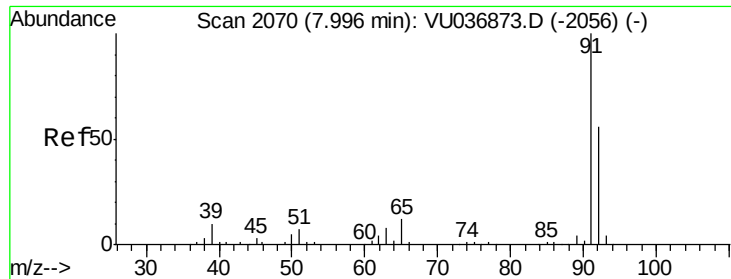
Tot Ion: 75 Resp: 76531
 Ion Ratio Lower Upper
 75 100
 77 31.6 22.5 41.9



#40
 4-Methyl-2-pentanone
 Concen: 51.579 ug/L
 RT: 7.83 min Scan# 2017
 Delta R.T. 0.00 min
 Lab File: VU036876.D
 Acq: 21 Feb 2020 13:04

Tgt Ion: 43 Resp: 351700
 Ion Ratio Lower Upper
 43 100
 58 40.2 32.0 48.0
 100 15.1 11.8 17.8





#42

Toluene

Concen: 4.970 ug/L

RT: 8.00 min Scan# 2071

Delta R.T. 0.00 min

Lab File: VU036876.D

Acq: 21 Feb 2020 13:04

Instrument :

MSVOA_U

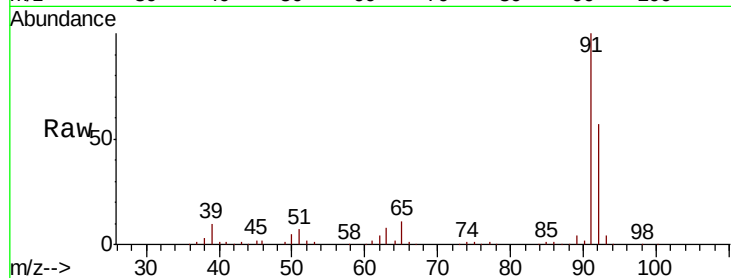
ClientSampled :

Tot Ion: 91 Resp: 206559

Ion Ratio Lower Upper

91 100

92 56.7 41.2 76.4



Abundance Ion 91.15 (90.85 to 91.85): VU036873.D (-2056) (-)

Ion 92.15 (91.85 to 92.85): VU036873.D (-2056) (-)

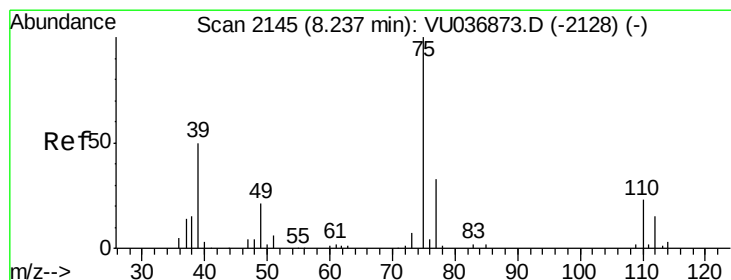
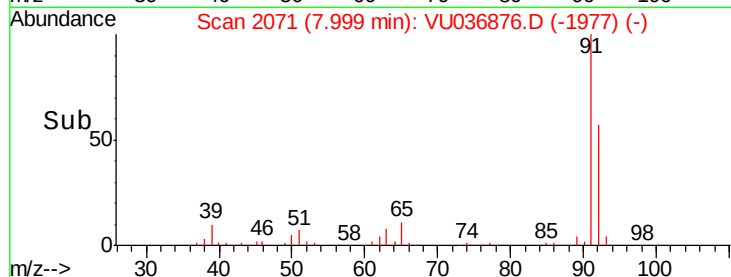
8.00

100000

50000

0

Time--> 7.90 7.95 8.00 8.05 8.10



#44

trans-1,3-Dichloropropene

Concen: 4.935 ug/L

RT: 8.24 min Scan# 2146

Delta R.T. 0.00 min

Lab File: VU036876.D

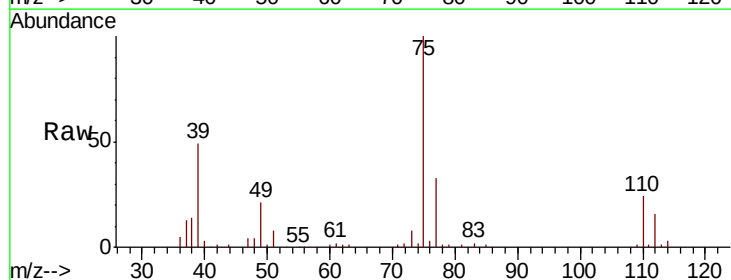
Acq: 21 Feb 2020 13:04

Tgt Ion: 75 Resp: 58966

Ion Ratio Lower Upper

75 100

77 32.5 23.1 42.9



Abundance Ion 75.05 (74.75 to 75.75): VU036873.D (-2128) (-)

Ion 77.05 (76.75 to 77.75): VU036873.D (-2128) (-)

8.24

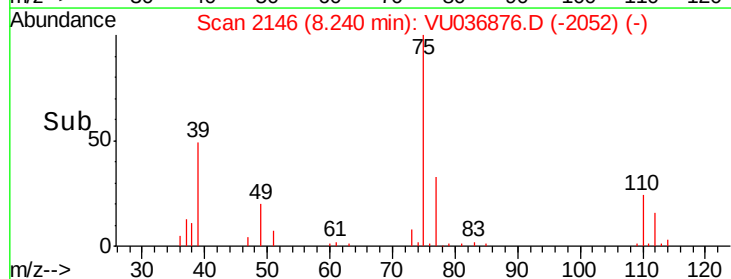
30000

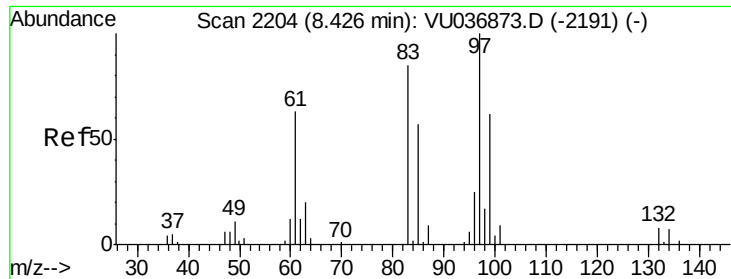
20000

10000

0

Time--> 8.15 8.20 8.25 8.30

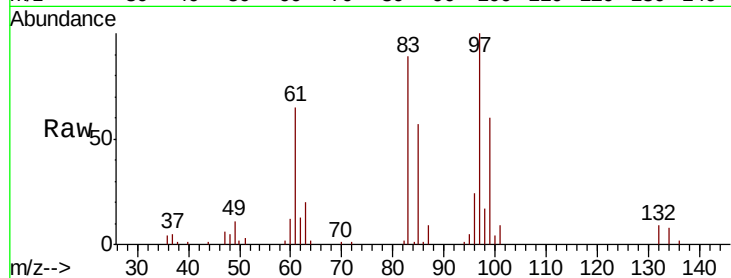




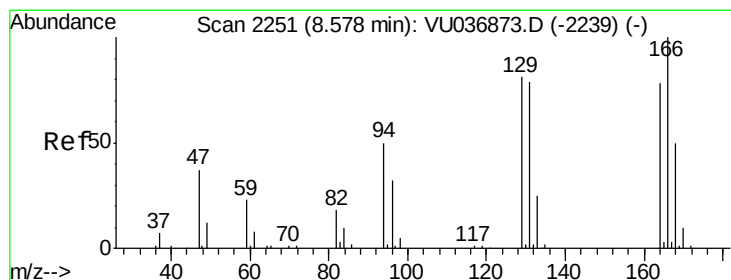
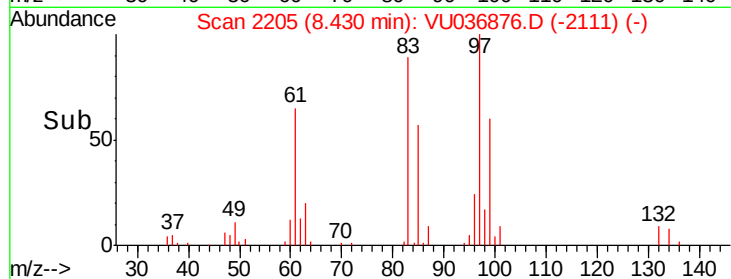
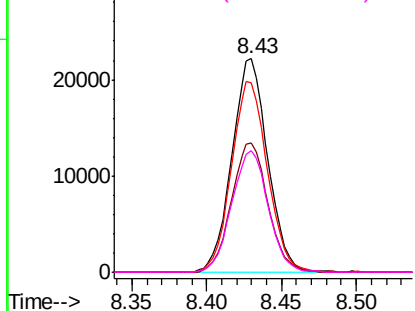
#45
 1,1,2-Trichloroethane
 Concen: 5.026 ug/L
 RT: 8.43 min Scan# 2205
 Delta R.T. 0.00 min
 Lab File: VU036876.D
 Acq: 21 Feb 2020 13:04

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:	97	Resp:	36948
Ion	Ratio	Lower	Upper
97	100		
99	60.5	44.1	81.9
83	88.7	63.5	117.9
85	56.7	41.2	76.4

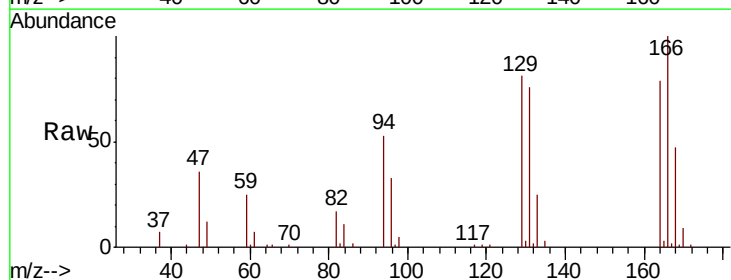


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

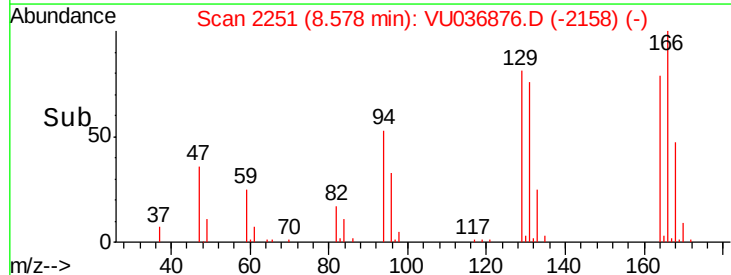
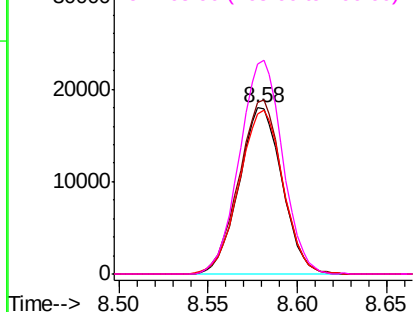


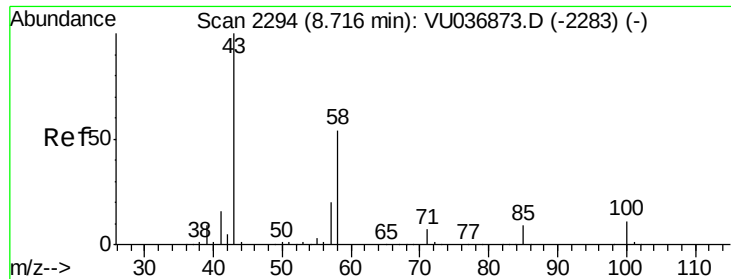
#47
 Tetrachloroethene
 Concen: 4.512 ug/L
 RT: 8.58 min Scan# 2251
 Delta R.T. 0.00 min
 Lab File: VU036876.D
 Acq: 21 Feb 2020 13:04

Tgt Ion:	164	Resp:	30256
Ion	Ratio	Lower	Upper
164	100		
129	103.0	68.0	126.4
131	96.7	69.4	128.8
166	126.4	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

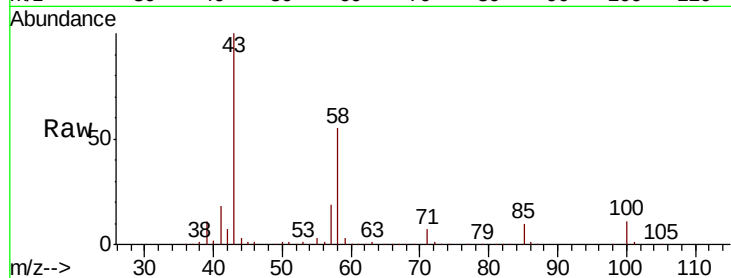




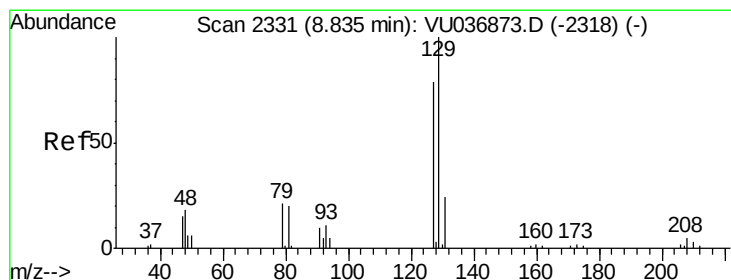
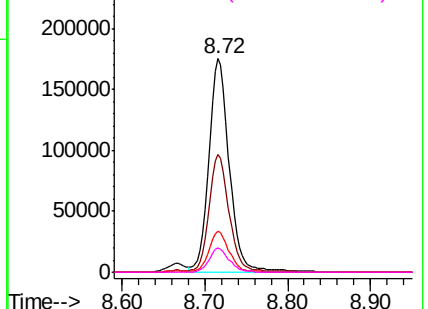
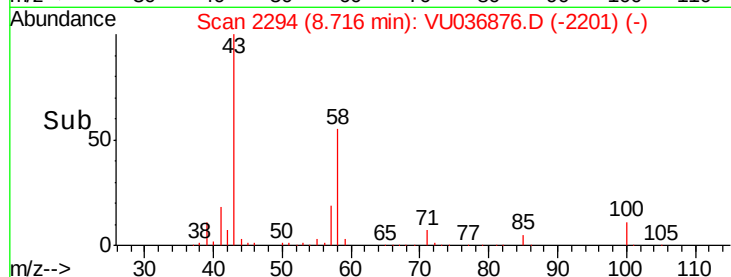
#48
2-Hexanone
Concen: 51.858 ug/L
RT: 8.72 min Scan# 2294
Delta R.T. 0.00 min
Lab File: VU036876.D
Acq: 21 Feb 2020 13:04

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 302604
Ion Ratio Lower Upper
43 100
58 55.4 43.6 65.4
57 19.1 15.0 22.4
100 11.1 9.0 13.6

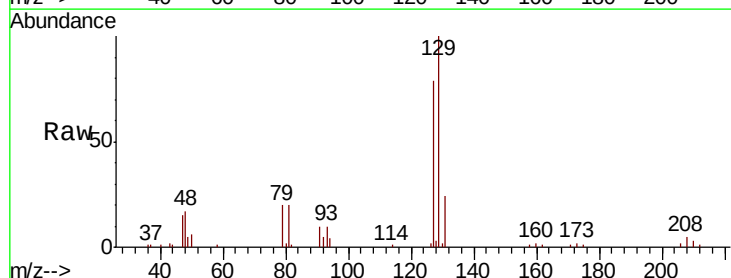


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

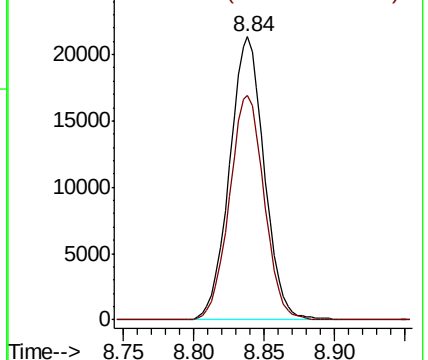
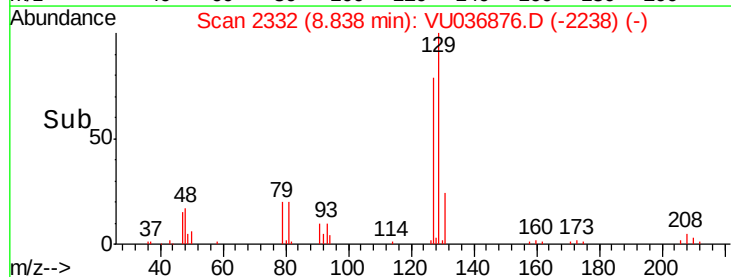


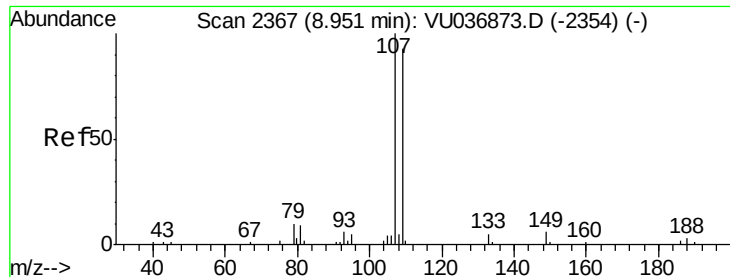
#49
Dibromochloromethane
Concen: 4.829 ug/L
RT: 8.84 min Scan# 2332
Delta R.T. 0.00 min
Lab File: VU036876.D
Acq: 21 Feb 2020 13:04

Tgt Ion: 129 Resp: 36713
Ion Ratio Lower Upper
129 100
127 79.4 56.7 105.3



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

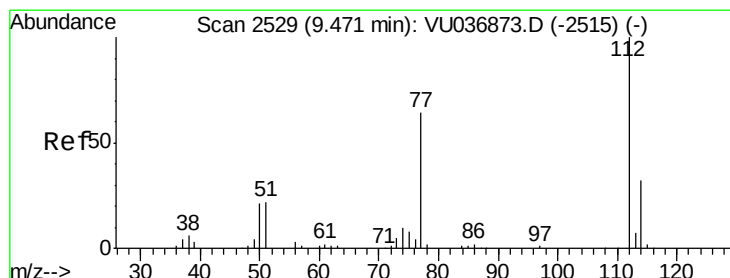
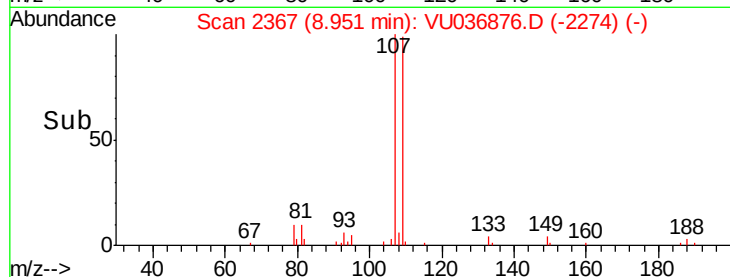
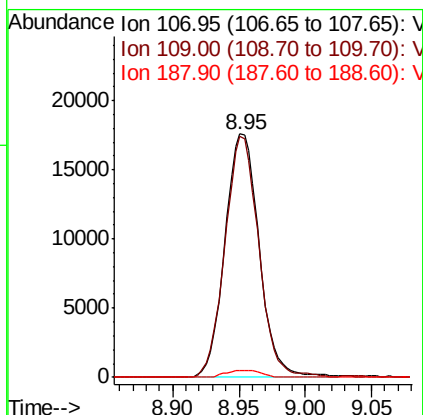
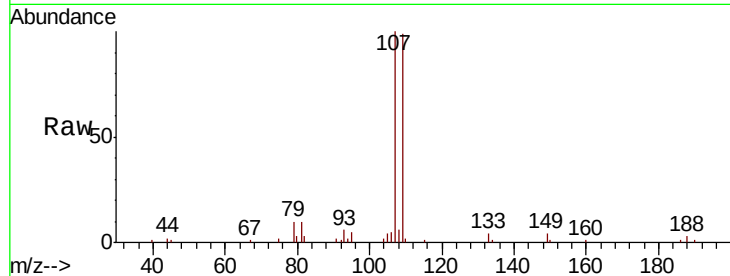




#50
 1,2-Dibromoethane
 Concen: 4.771 ug/L
 RT: 8.95 min Scan# 2367
 Delta R.T. 0.00 min
 Lab File: VU036876.D
 Acq: 21 Feb 2020 13:04

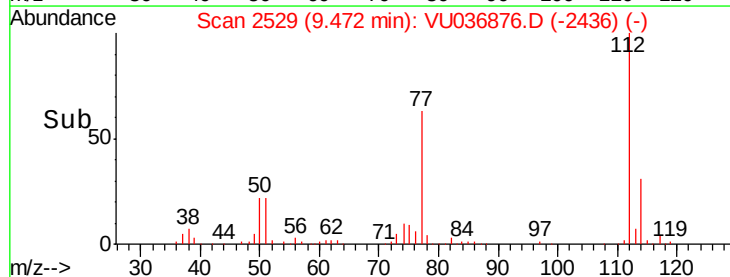
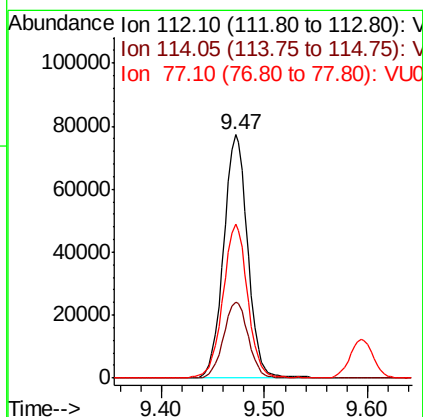
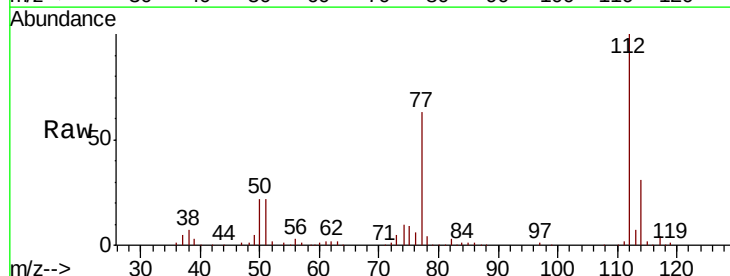
Instrument :
 MSVOA_U
 ClientSampleId :

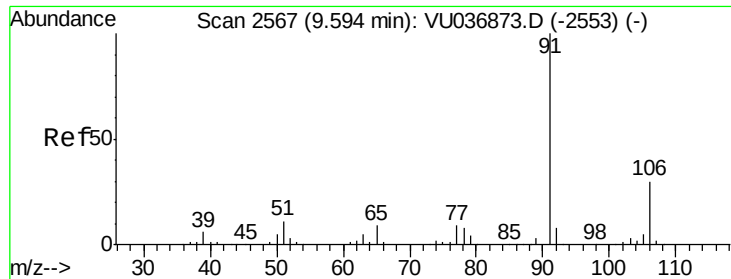
Tot Ion	Ratio	Lower	Upper
107	100		
109	99.2	66.4	123.2
188	2.8	2.4	3.6



#51
 Chlorobenzene
 Concen: 4.886 ug/L
 RT: 9.47 min Scan# 2529
 Delta R.T. 0.00 min
 Lab File: VU036876.D
 Acq: 21 Feb 2020 13:04

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.3	22.9	42.5
77	63.1	51.0	76.4





#52

Ethylbenzene

Concen: 4.915 ug/L

RT: 9.59 min Scan# 2567

Delta R.T. 0.00 min

Lab File: VU036876.D

Acq: 21 Feb 2020 13:04

Instrument :

MSVOA_U

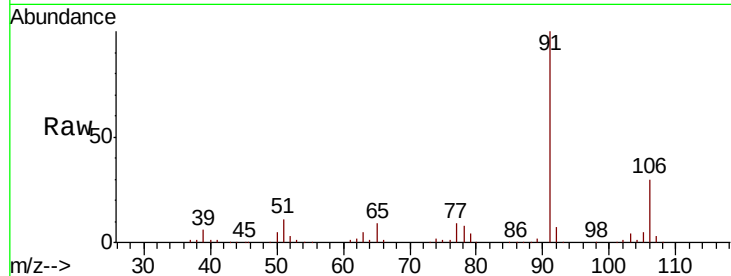
ClientSampleId :

Tot Ion: 91 Resp: 228142

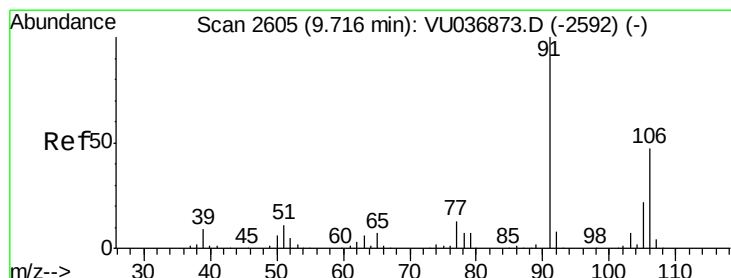
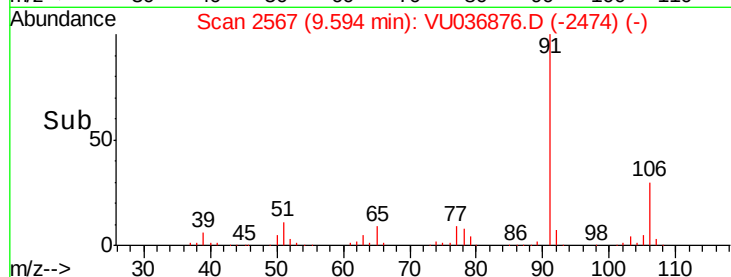
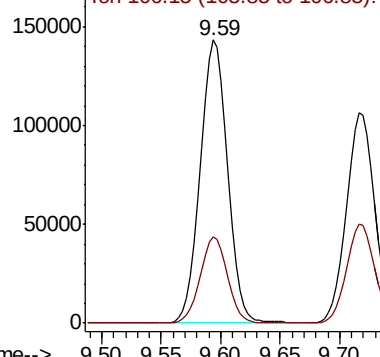
Ion Ratio Lower Upper

91 100

106 30.4 21.5 39.9



Abundance Ion 91.15 (90.85 to 91.85): VU036876.D (-2553) (-)



#53

m,p-Xylene

Concen: 4.823 ug/L

RT: 9.72 min Scan# 2605

Delta R.T. 0.00 min

Lab File: VU036876.D

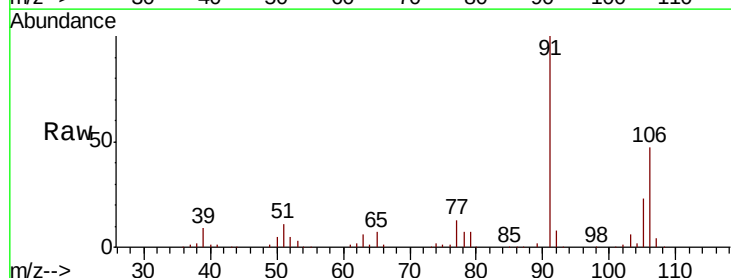
Acq: 21 Feb 2020 13:04

Tgt Ion: 106 Resp: 82403

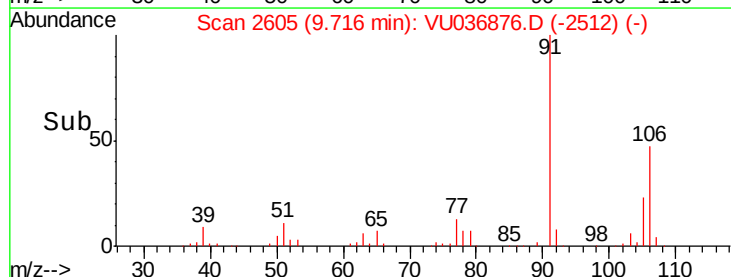
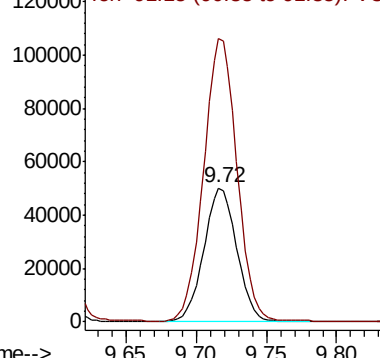
Ion Ratio Lower Upper

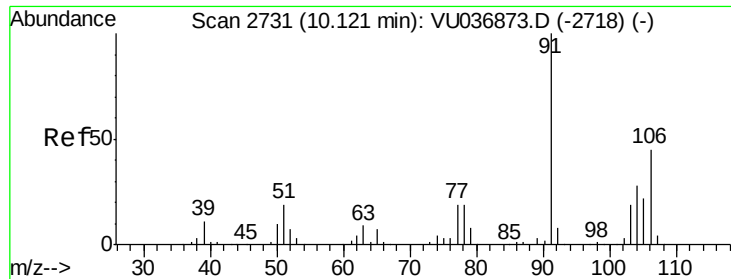
106 100

91 211.2 141.1 262.0



Abundance Ion 106.15 (105.85 to 106.85): VU036876.D (-2592) (-)

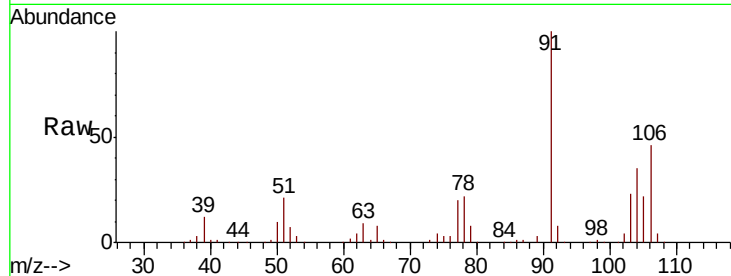




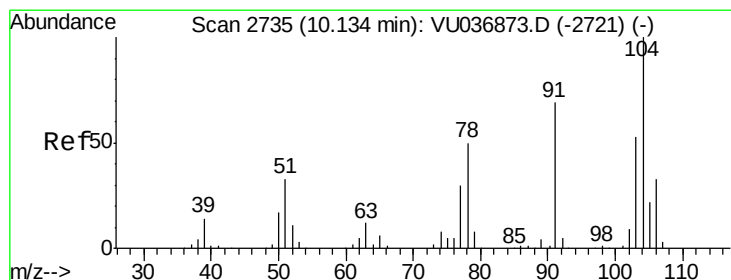
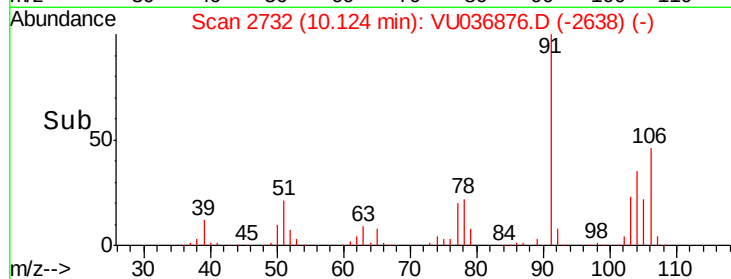
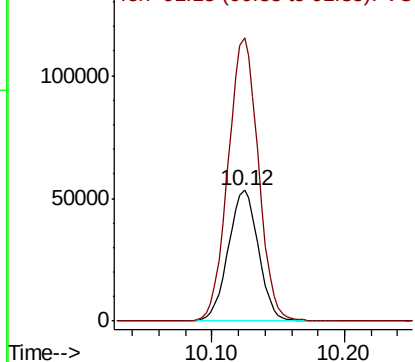
#54
o-Xylene
Concen: 5.031 ug/L
RT: 10.12 min Scan# 2732
Delta R.T. 0.00 min
Lab File: VU036876.D
Acq: 21 Feb 2020 13:04

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:106 Resp: 84402
Ion Ratio Lower Upper
106 100
91 216.6 151.1 280.5

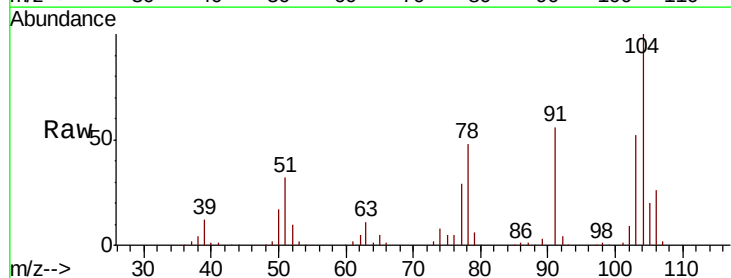


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

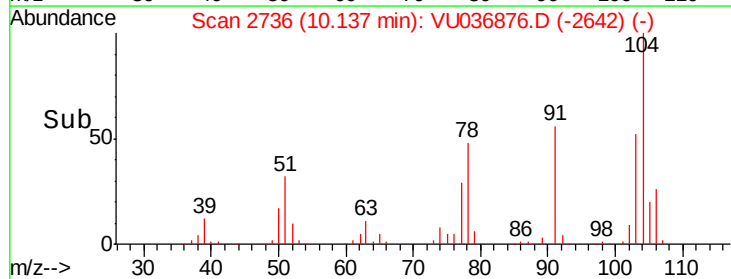
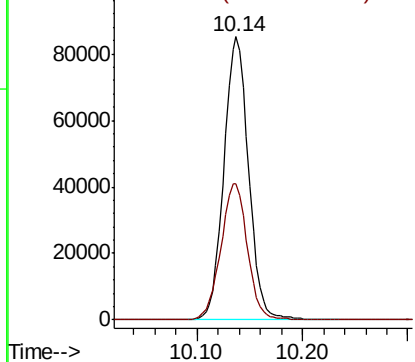


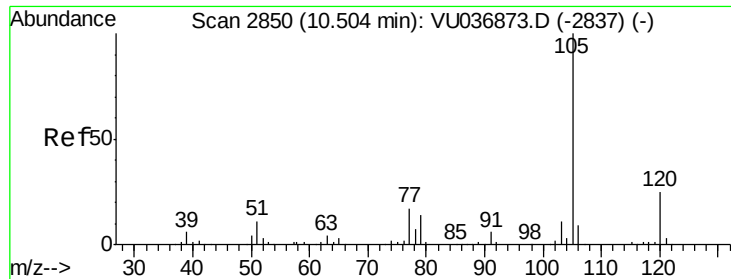
#55
Styrene
Concen: 4.869 ug/L
RT: 10.14 min Scan# 2736
Delta R.T. 0.00 min
Lab File: VU036876.D
Acq: 21 Feb 2020 13:04

Tgt Ion:104 Resp: 137693
Ion Ratio Lower Upper
104 100
78 48.3 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: 4.925 ug/L

RT: 10.51 min Scan# 2851

Delta R.T. 0.00 min

Lab File: VU036876.D

Acq: 21 Feb 2020 13:04

Instrument :

MSVOA_U

ClientSampleId :

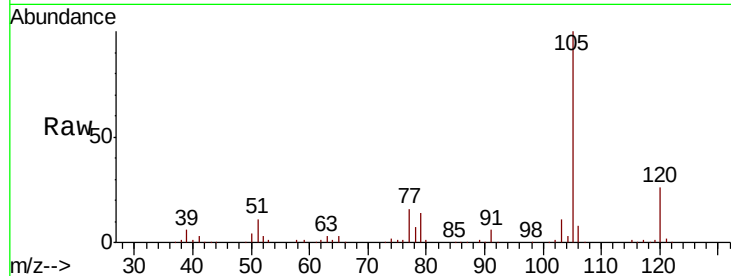
Tot Ion:105 Resp: 221123

Ion Ratio Lower Upper

105 100

120 25.4 20.5 30.7

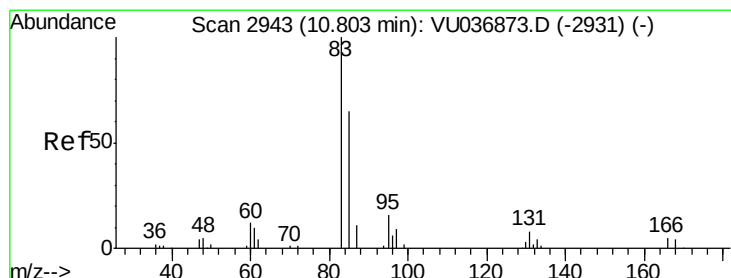
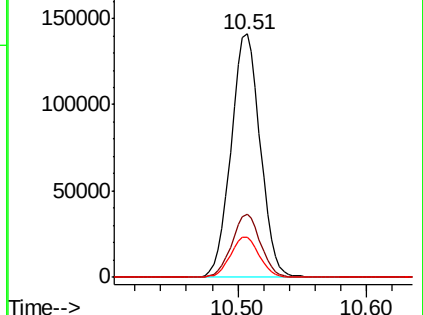
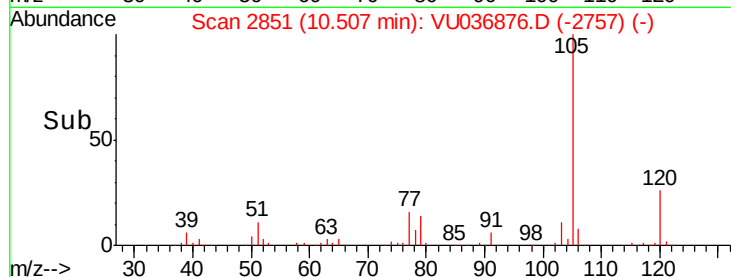
77 16.3 13.0 19.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.993 ug/L

RT: 10.81 min Scan# 2944

Delta R.T. 0.00 min

Lab File: VU036876.D

Acq: 21 Feb 2020 13:04

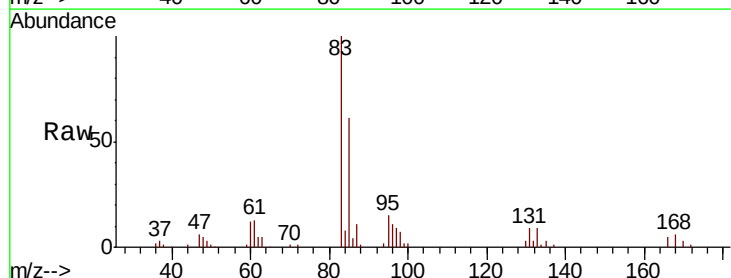
Tgt Ion: 83 Resp: 48042

Ion Ratio Lower Upper

83 100

85 61.3 45.6 84.6

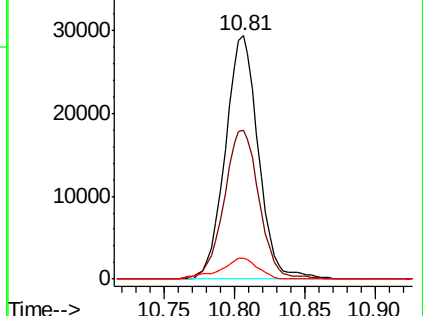
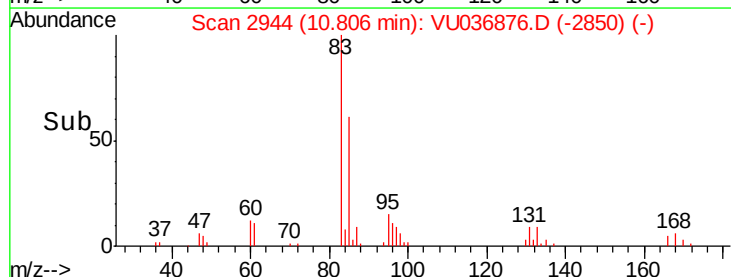
131 8.7 6.8 10.2

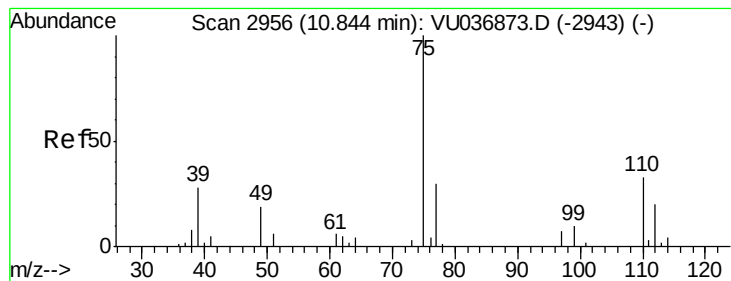


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.954 ug/L

RT: 10.84 min Scan# 2956

Delta R.T. 0.00 min

Lab File: VU036876.D

Acq: 21 Feb 2020 13:04

Instrument :

MSVOA_U

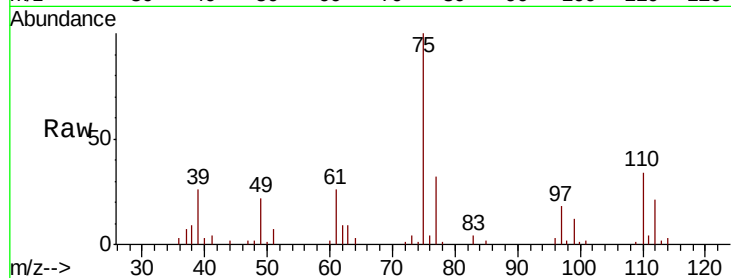
ClientSampleId :

Tot Ion: 75 Resp: 34562

Ion Ratio Lower Upper

75 100

77 32.5 25.6 38.4



Abundance Ion 75.00 (74.70 to 75.70): VU036876.D (-2943) (-)

Ion 77.00 (76.70 to 77.70): VU036876.D (-2943) (-)

10.84

25000

20000

15000

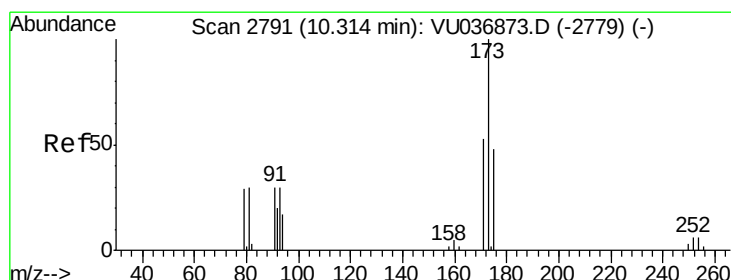
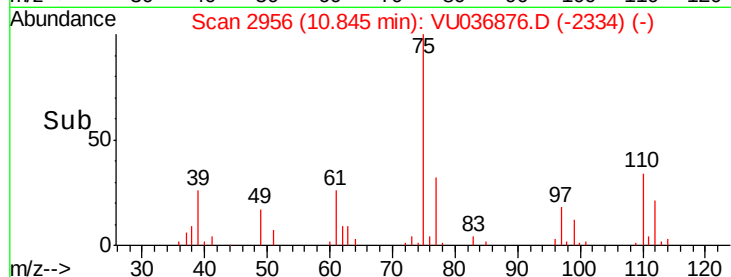
10000

5000

0

Time-->

10.80 10.85 10.90



#61

Bromoform

Concen: 4.856 ug/L

RT: 10.31 min Scan# 2791

Delta R.T. 0.00 min

Lab File: VU036876.D

Acq: 21 Feb 2020 13:04

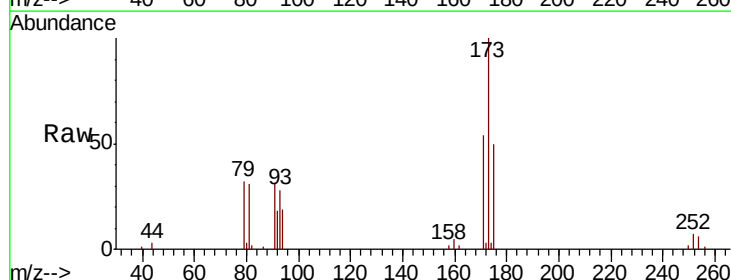
Tgt Ion: 173 Resp: 18902

Ion Ratio Lower Upper

173 100

175 48.2 39.9 59.9

254 5.6 4.6 6.8



Abundance Ion 172.90 (172.60 to 173.60): VU036876.D (-2698) (-)

Ion 174.90 (174.60 to 175.60): VU036876.D (-2698) (-)

Ion 253.75 (253.45 to 254.45): VU036876.D (-2698) (-)

15000

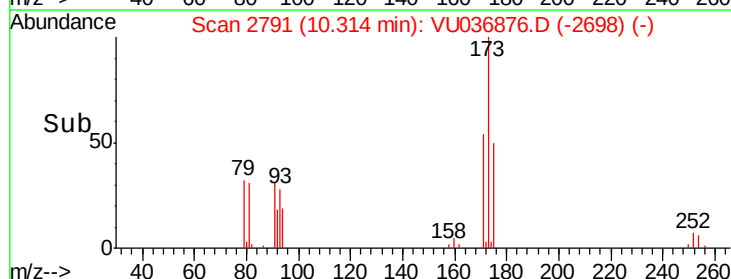
10000

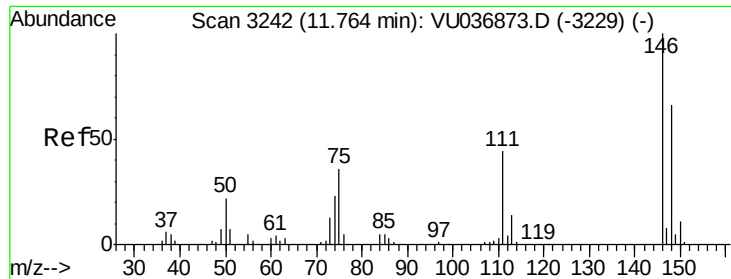
5000

0

Time-->

10.25 10.30 10.35

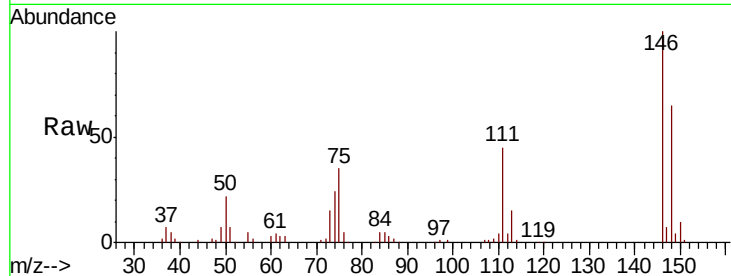




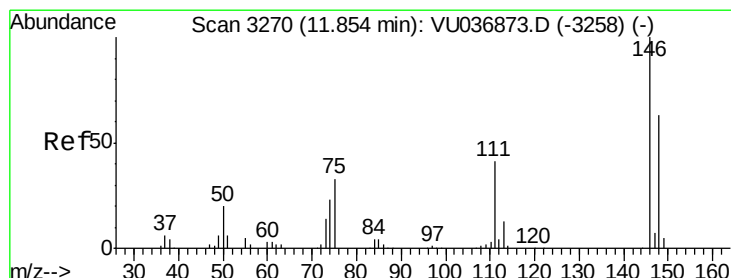
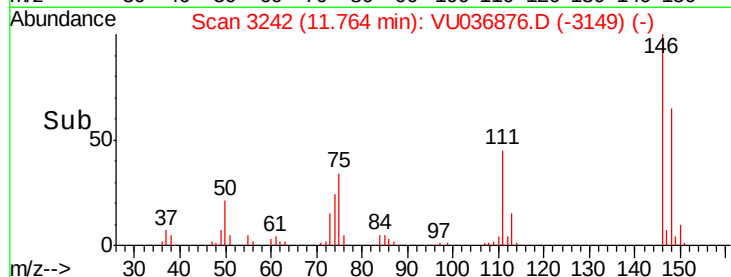
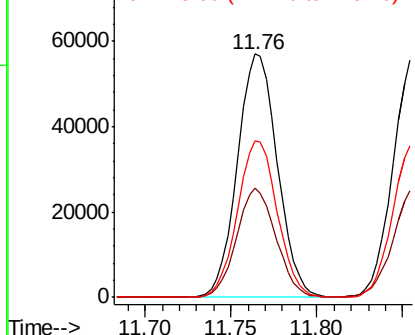
#62
 1,3-Dichlorobenzene
 Concen: 4.748 ug/L
 RT: 11.76 min Scan# 3242
 Delta R.T. 0.00 min
 Lab File: VU036876.D
 Acq: 21 Feb 2020 13:04

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:146 Resp: 92415
 Ion Ratio Lower Upper
 146 100
 111 44.7 30.0 55.8
 148 64.6 44.5 82.7

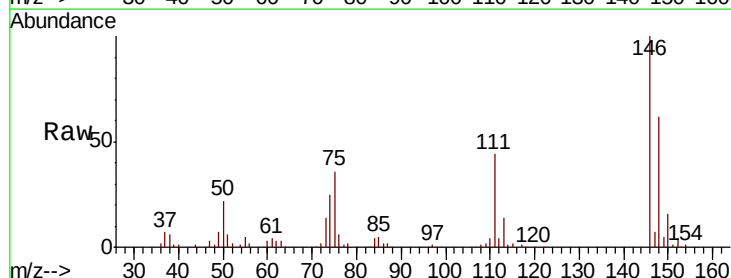


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

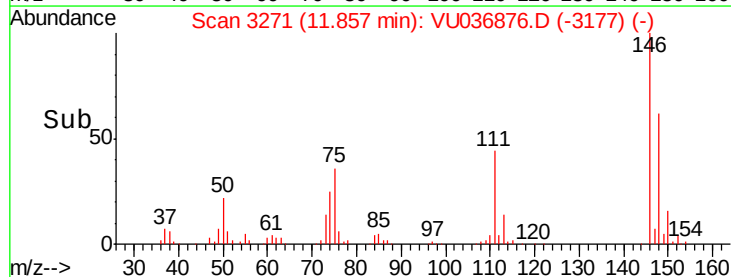
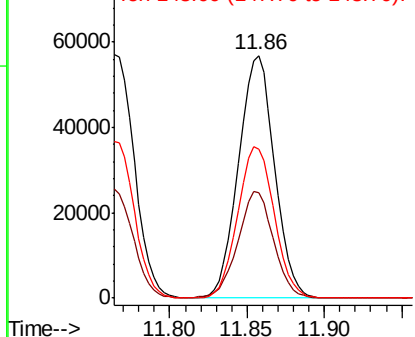


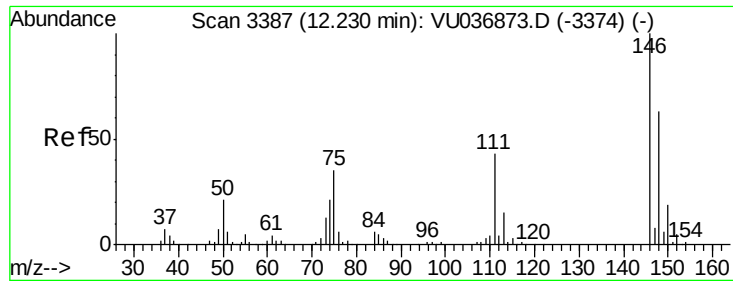
#63
 1,4-Dichlorobenzene
 Concen: 4.777 ug/L
 RT: 11.86 min Scan# 3271
 Delta R.T. 0.00 min
 Lab File: VU036876.D
 Acq: 21 Feb 2020 13:04

Tgt Ion:146 Resp: 92175
 Ion Ratio Lower Upper
 146 100
 111 43.6 29.2 54.2
 148 61.5 44.3 82.3



Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 4.782 ug/L

RT: 12.23 min Scan# 3387

Delta R.T. 0.00 min

Lab File: VU036876.D

Acq: 21 Feb 2020 13:04

Instrument :

MSVOA_U

ClientSampled :

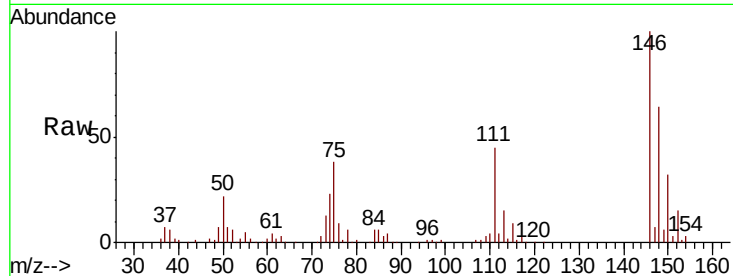
Tot Ion:146 Resp: 89735

Ion Ratio Lower Upper

146 100

111 45.4 35.9 53.9

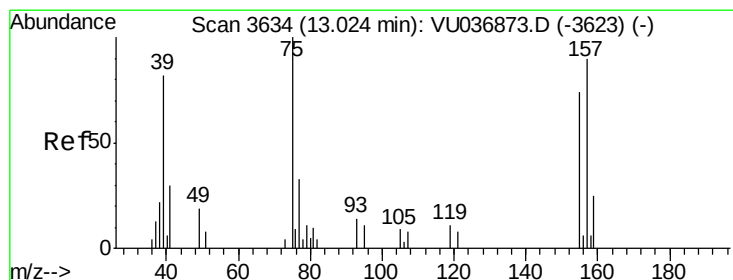
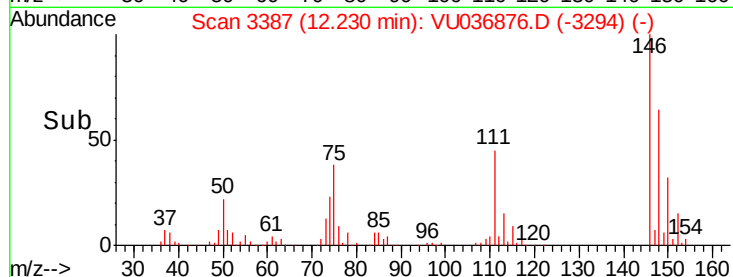
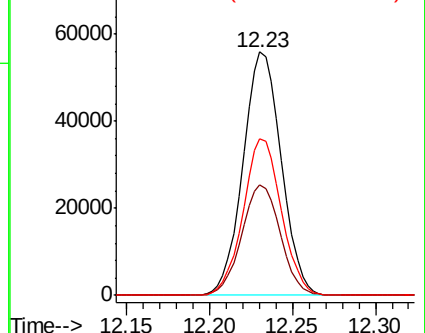
148 64.5 50.4 75.6



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 4.769 ug/L

RT: 13.03 min Scan# 3635

Delta R.T. 0.00 min

Lab File: VU036876.D

Acq: 21 Feb 2020 13:04

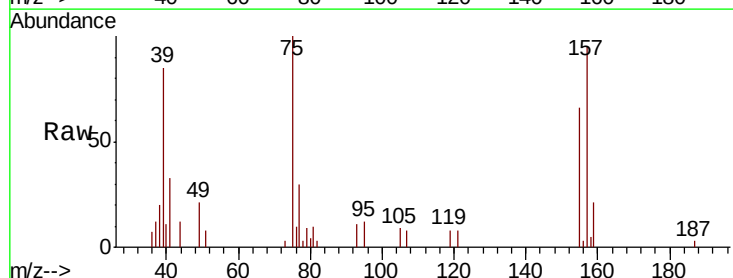
Tgt Ion: 75 Resp: 6679

Ion Ratio Lower Upper

75 100

155 65.8 52.9 79.3

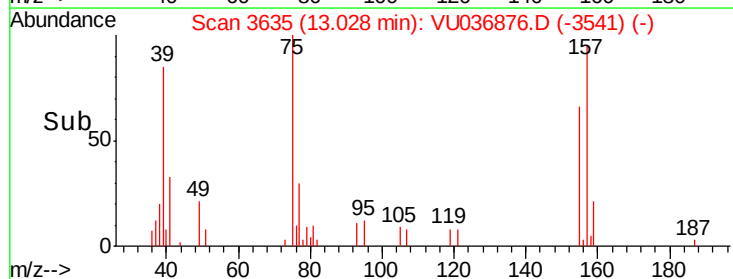
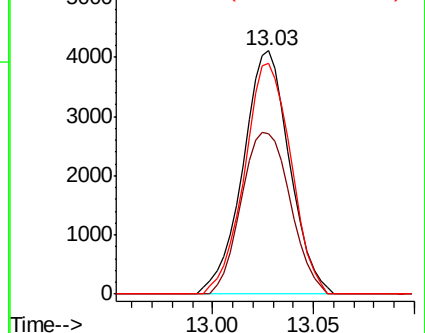
157 94.6 69.2 103.8

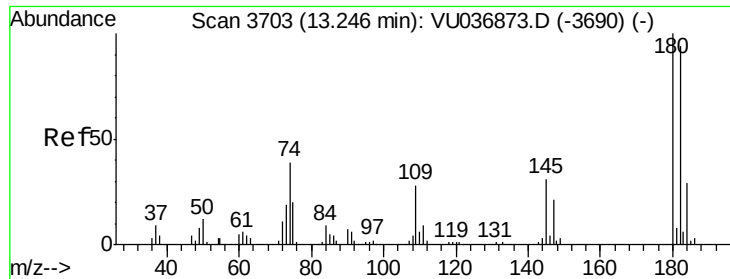


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

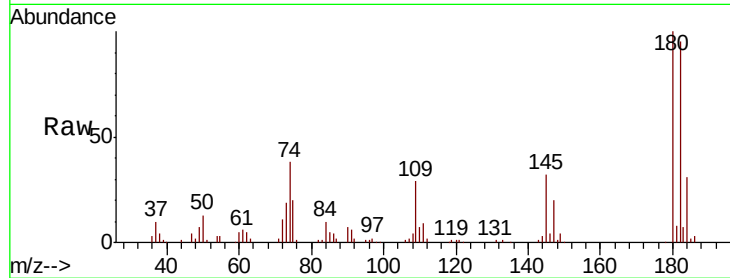




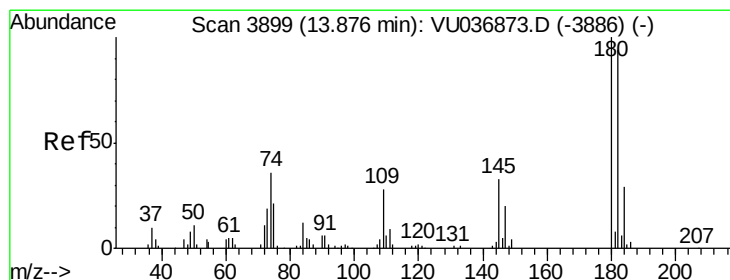
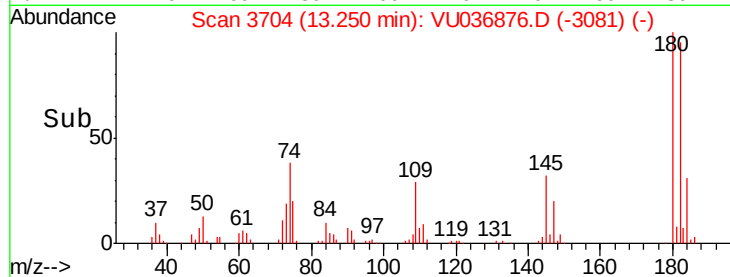
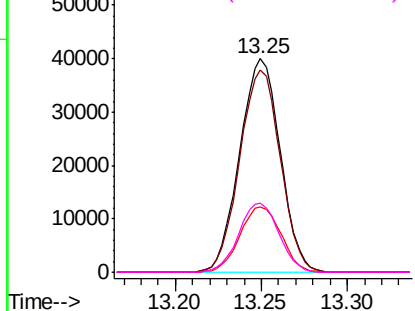
#67
 1,3,5-Trichlorobenzene
 Concen: 4.769 ug/L
 RT: 13.25 min Scan# 3704
 Delta R.T. 0.00 min
 Lab File: VU036876.D
 Acq: 21 Feb 2020 13:04

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180 Resp: 65354
 Ion Ratio Lower Upper
 180 100
 182 95.1 76.4 114.6
 184 31.0 24.6 37.0
 145 32.2 25.3 37.9

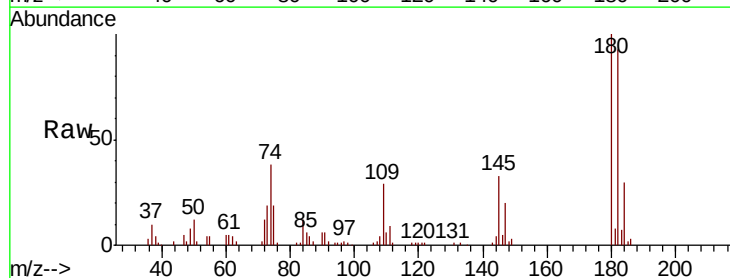


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

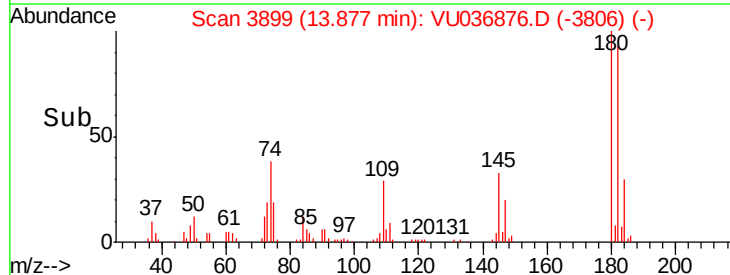
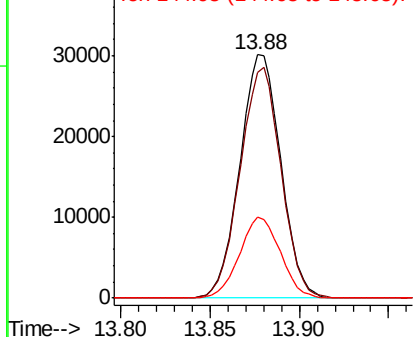


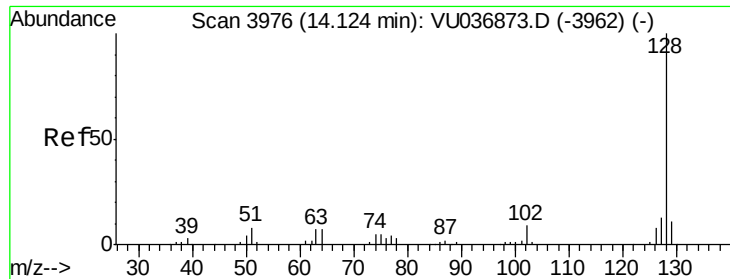
#68
 1,2,4-trichlorobenzene
 Concen: 4.687 ug/L
 RT: 13.88 min Scan# 3899
 Delta R.T. 0.00 min
 Lab File: VU036876.D
 Acq: 21 Feb 2020 13:04

Tgt Ion:180 Resp: 48433
 Ion Ratio Lower Upper
 180 100
 182 94.5 77.0 115.6
 145 33.0 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: 5.016 ug/L

RT: 14.13 min Scan# 3977

Delta R.T. 0.00 min

Lab File: VU036876.D

Acq: 21 Feb 2020 13:04

Instrument :

MSVOA_U

ClientSampleId :

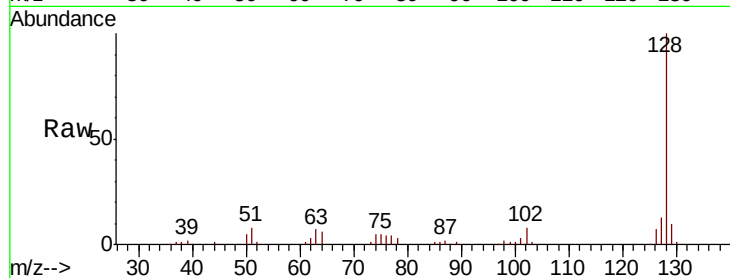
Tot Ion:128 Resp: 93917

Ion Ratio Lower Upper

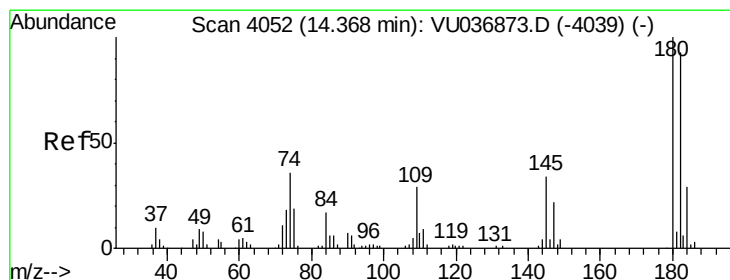
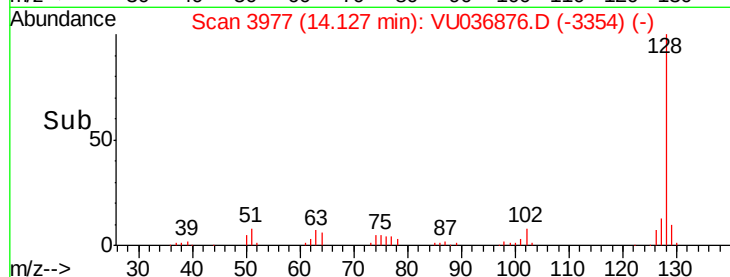
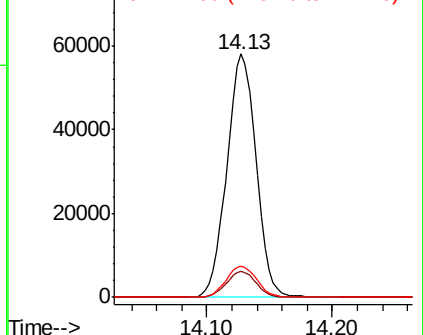
128 100

129 10.8 9.0 13.4

127 13.3 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: 4.839 ug/L

RT: 14.37 min Scan# 4054

Delta R.T. 0.01 min

Lab File: VU036876.D

Acq: 21 Feb 2020 13:04

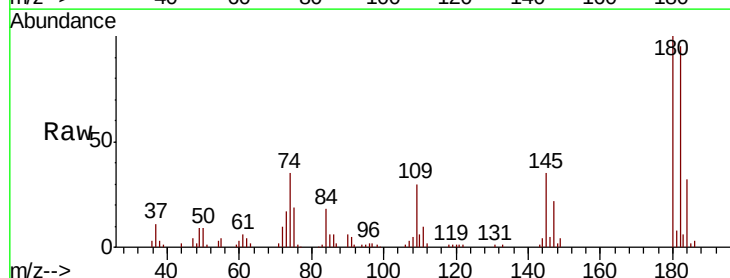
Tgt Ion:180 Resp: 44875

Ion Ratio Lower Upper

180 100

182 94.2 78.2 117.4

145 34.9 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

