

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052120\
 Data File : VU038276.D
 Acq On : 21 May 2020 20:07
 Operator : JC/MD
 Sample : VSTDCCC005EC
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: May 22 01:07:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri May 22 01:03:14 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	509682	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	497051	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.82	152	249388	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	158156	3.39	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	67.80%
7) Chloroethane-d5	1.93	69	149524	3.71	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	74.20%
11) 1,1-Dichloroethene-d2	2.59	63	286426	3.67	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	73.40%
20) 2-Butanone-d5	4.67	46	492321	42.80	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	85.60%
24) Chloroform-d	5.10	84	288283	4.07	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	81.40%
26) 1,2-Dichloroethane-d4	5.74	65	163365	4.03	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	80.60%
32) Benzene-d6	5.76	84	583574	3.92	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	78.40%
36) 1,2-Dichloropropane-d6	6.72	67	186884	3.89	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	77.80%
41) Toluene-d8	7.92	98	540851	4.04	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	80.80%
43) trans-1,3-Dichloropropene-	8.20	79	74170	3.85	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	77.00%
46) 2-Hexanone-d5	8.66	63	394572	43.39	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	86.78%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	159111	4.19	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	83.80%
64) 1,2-Dichlorobenzene-d4	12.20	152	199885	4.12	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	82.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.40	85	170805	3.664	ug/L 98
3) Chloromethane	1.53	50	149534	2.662	ug/L 99
5) Vinyl chloride	1.62	62	197818	3.594	ug/L 95
6) Bromomethane	1.87	94	48432	1.545	ug/L 99
8) Chloroethane	1.95	64	129837	3.835	ug/L 97
9) Trichlorofluoromethane	2.16	101	244256	4.340	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	151247	4.335	ug/L 98
12) 1,1-Dichloroethene	2.60	96	146928	4.154	ug/L 95
13) Acetone	2.66	43	295050	40.885	ug/L 97
14) Carbon disulfide	2.82	76	438036	3.472	ug/L 98
15) Methyl Acetate	2.98	43	73408	3.636	ug/L 94
16) Methylene chloride	3.08	84	172744	4.190	ug/L 93
17) Methyl tert-butyl Ether	3.40	73	403729	4.108	ug/L 98
18) trans-1,2-Dichloroethene	3.39	96	157132	4.069	ug/L 95
19) 1,1-Dichloroethane	3.91	63	296187	3.927	ug/L 98
21) 2-Butanone	4.75	43	508622	39.930	ug/L 96
22) cis-1,2-Dichloroethene	4.71	96	174708	4.198	ug/L 96

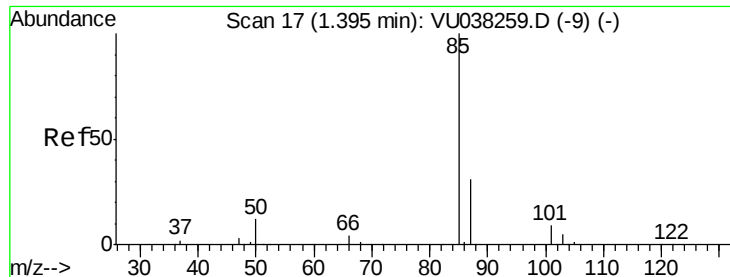
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052120\
 Data File : VU038276.D
 Acq On : 21 May 2020 20:07
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 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri May 22 01:03:14 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	76862	4.292	ug/L	88
25) Chloroform	5.12	83	291130	4.138	ug/L	98
27) 1,2-Dichloroethane	5.83	62	201092	4.049	ug/L	100
29) 1,1,1-Trichloroethane	5.35	97	242693	4.262	ug/L	99
30) Cyclohexane	5.42	56	264678	3.936	ug/L	97
31) Carbon tetrachloride	5.56	117	197260	4.310	ug/L	99
33) Benzene	5.81	78	658375	4.136	ug/L	100
34) Trichloroethene	6.57	95	162512	4.082	ug/L	95
35) Methylcyclohexane	6.79	83	271638	4.212	ug/L	93
37) 1,2-Dichloropropane	6.82	63	171889	3.976	ug/L	98
38) Bromodichloromethane	7.13	83	208612	4.174	ug/L	98
39) cis-1,3-Dichloropropene	7.63	75	251723	4.068	ug/L	96
40) 4-Methyl-2-pentanone	7.82	43	1193688	39.837	ug/L	97
42) Toluene	7.99	91	702381	4.180	ug/L	98
44) trans-1,3-Dichloropropene	8.23	75	214663	4.080	ug/L	99
45) 1,1,2-Trichloroethane	8.42	97	128942	4.295	ug/L	97
47) Tetrachloroethene	8.57	164	118536	4.257	ug/L	97
48) 2-Hexanone	8.71	43	901327	41.073	ug/L	98
49) Dibromochloromethane	8.83	129	137046	4.398	ug/L	98
50) 1,2-Dibromoethane	8.94	107	119395	4.285	ug/L	97
51) Chlorobenzene	9.47	112	459438	4.406	ug/L	97
52) Ethylbenzene	9.59	91	780015	4.286	ug/L	100
53) m,p-Xylene	9.71	106	302227	4.330	ug/L	97
54) o-Xylene	10.11	106	293467	4.349	ug/L	99
55) Styrene	10.13	104	493455	4.356	ug/L	96
56) Isopropylbenzene	10.50	105	772285	4.456	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.80	83	160558	4.212	ug/L	98
59) 1,2,3-Trichloropropane	10.84	75	120375	4.148	ug/L	98
61) Bromoform	10.31	173	70451	4.179	ug/L	96
62) 1,3-Dichlorobenzene	11.76	146	348627	4.296	ug/L	99
63) 1,4-Dichlorobenzene	11.85	146	355731	4.326	ug/L	98
65) 1,2-Dichlorobenzene	12.22	146	340389	4.360	ug/L	100
66) 1,2-Dibromo-3-chloropropan	13.02	75	25669	4.023	ug/L	92
67) 1,3,5-Trichlorobenzene	13.24	180	257776	4.378	ug/L	98
68) 1,2,4-trichlorobenzene	13.86	180	238049	4.458	ug/L	99
69) Naphthalene	14.11	128	514819	4.579	ug/L	100
70) 1,2,3-Trichlorobenzene	14.36	180	218746	4.407	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 3.664 ug/L

RT: 1.40 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU038276.D

Acq: 21 May 2020 20:07

Instrument :

MSVOA_U

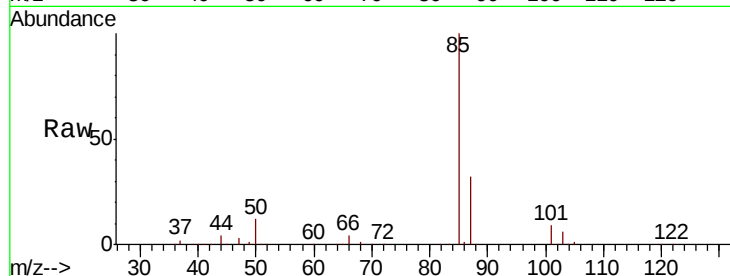
ClientSampleId :

Tot Ion: 85 Resp: 170805

Ion Ratio Lower Upper

85 100

87 31.8 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VU038259.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU038259.D (-9) (-)

1.40

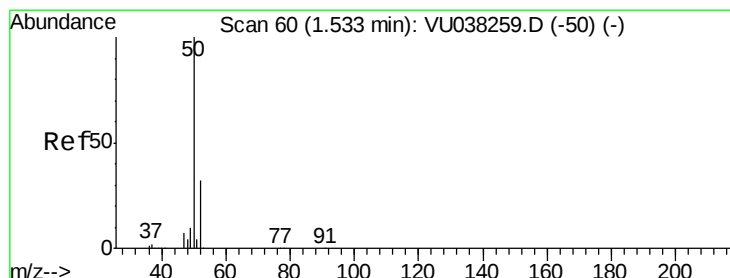
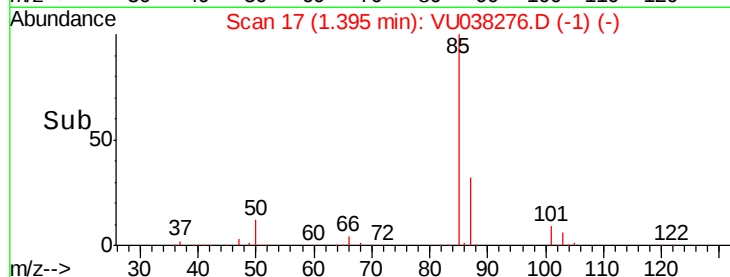
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 2.662 ug/L

RT: 1.53 min Scan# 60

Delta R.T. 0.00 min

Lab File: VU038276.D

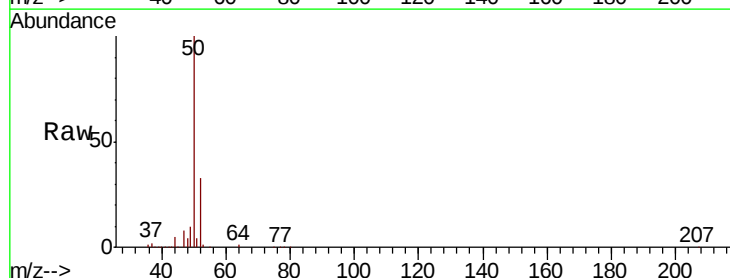
Acq: 21 May 2020 20:07

Tgt Ion: 50 Resp: 149534

Ion Ratio Lower Upper

50 100

52 32.9 22.5 41.7



Abundance Ion 50.05 (49.75 to 50.75): VU038259.D (-50) (-)

Ion 52.05 (51.75 to 52.75): VU038259.D (-50) (-)

1.53

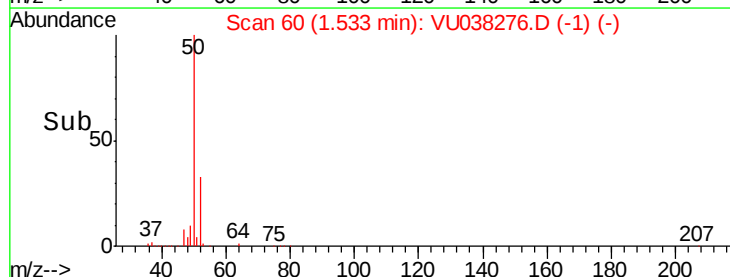
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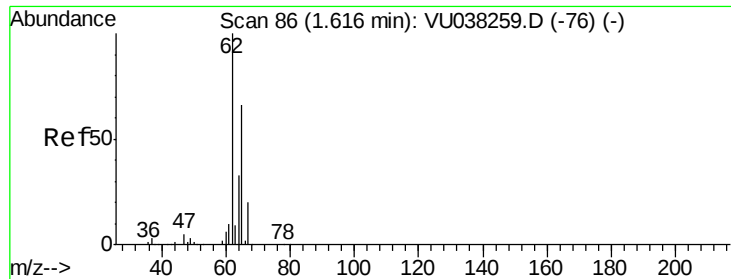
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 3.594 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU038276.D

Acq: 21 May 2020 20:07

Instrument :

MSVOA_U

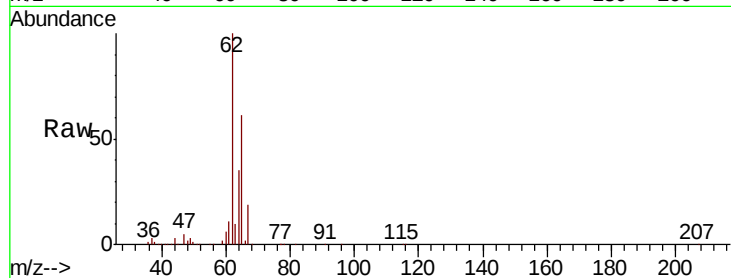
ClientSampleId :

Tot Ion: 62 Resp: 197818

Ion Ratio Lower Upper

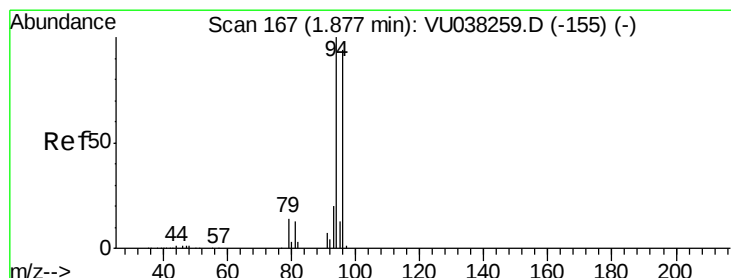
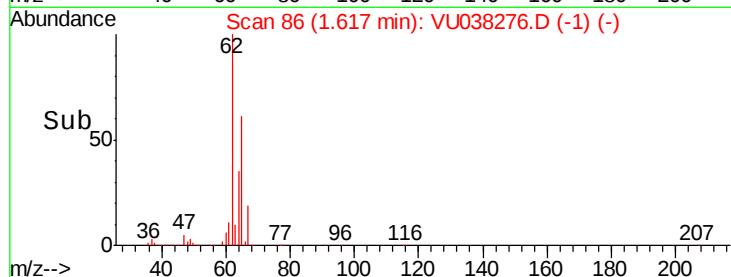
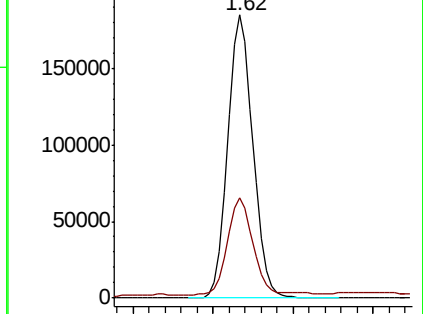
62 100

64 35.3 22.8 42.4



Abundance Ion 62.00 (61.70 to 62.70): VU038276.D (-1) (-)

Ion 64.10 (63.80 to 64.80): VU038276.D (-1) (-)



#6

Bromomethane

Concen: 1.545 ug/L

RT: 1.87 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU038276.D

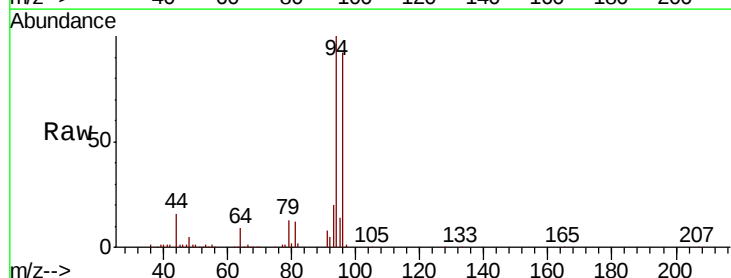
Acq: 21 May 2020 20:07

Tgt Ion: 94 Resp: 48432

Ion Ratio Lower Upper

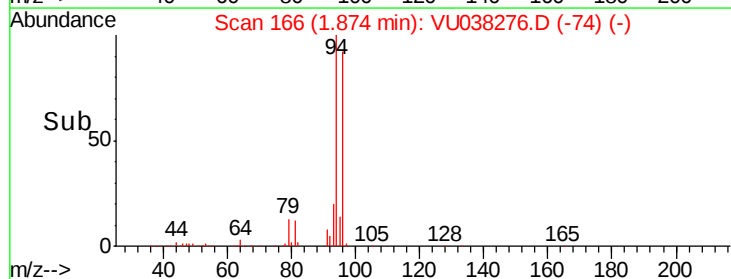
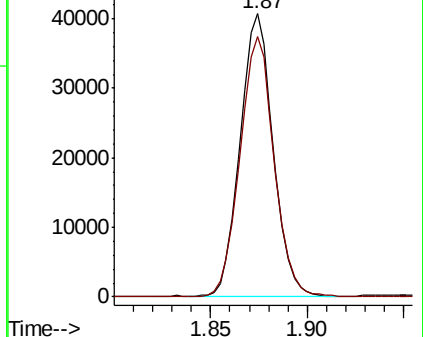
94 100

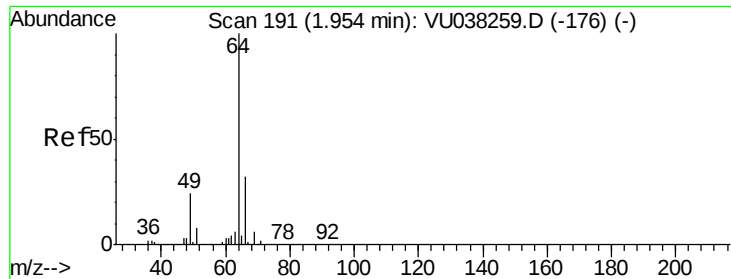
96 92.2 65.0 120.8



Abundance Ion 94.00 (93.70 to 94.70): VU038276.D (-74) (-)

Ion 96.00 (95.70 to 96.70): VU038276.D (-74) (-)





#8

Chloroethane

Concen: 3.835 ug/L

RT: 1.95 min Scan# 190

Delta R.T. -0.00 min

Lab File: VU038276.D

Acq: 21 May 2020 20:07

Instrument :

MSVOA_U

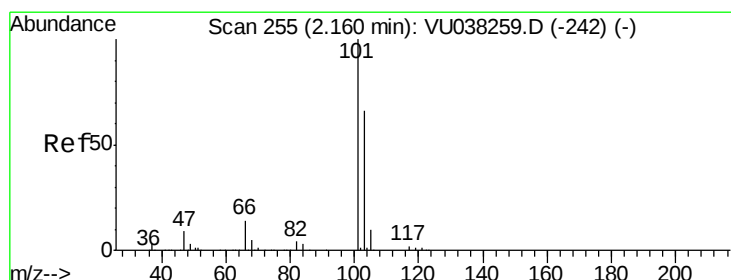
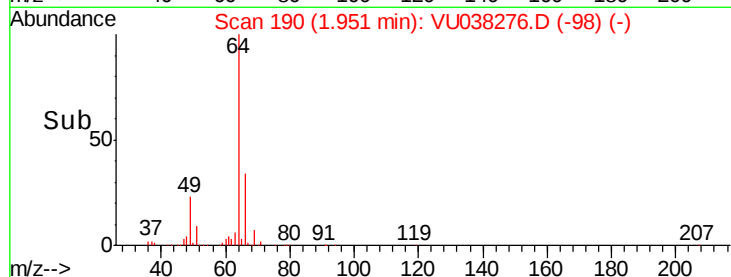
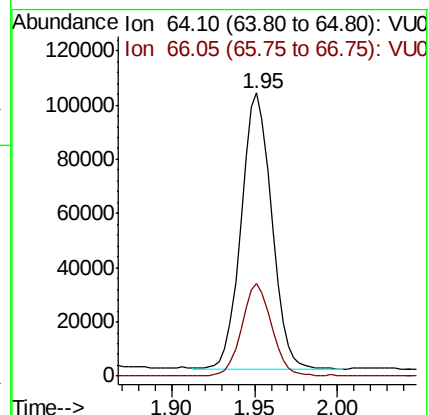
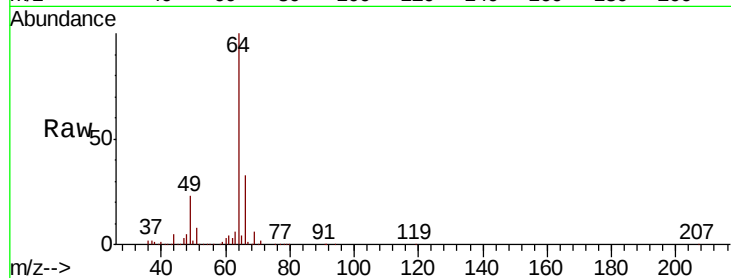
ClientSampleId :

Tot Ion: 64 Resp: 129837

Ion Ratio Lower Upper

64 100

66 32.7 21.8 40.4



#9

Trichlorofluoromethane

Concen: 4.340 ug/L

RT: 2.16 min Scan# 254

Delta R.T. -0.00 min

Lab File: VU038276.D

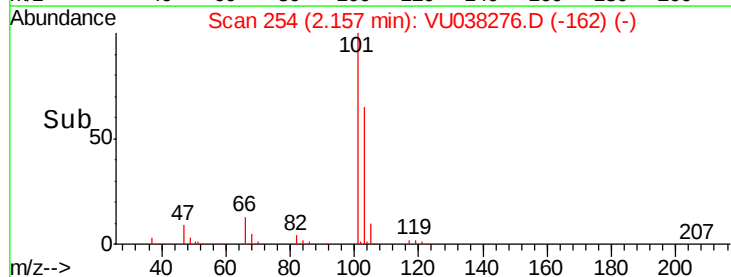
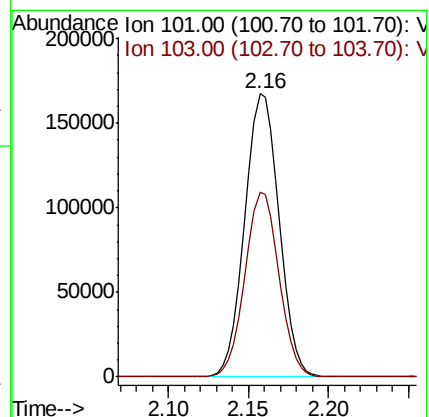
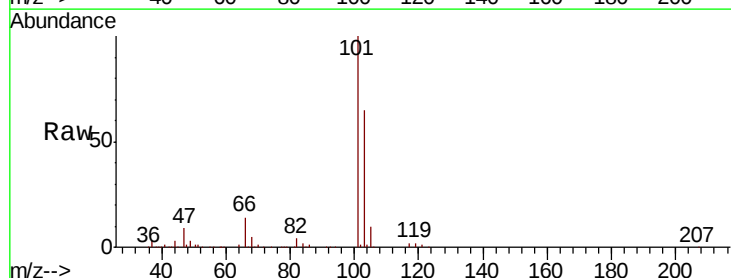
Acq: 21 May 2020 20:07

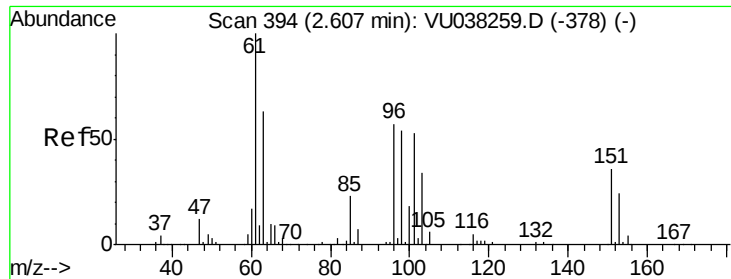
Tgt Ion: 101 Resp: 244256

Ion Ratio Lower Upper

101 100

103 64.6 51.0 76.4





#10

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

Concen: 4.335 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU038276.D

Acq: 21 May 2020 20:07

Instrument :

MSVOA_U

ClientSampleId :

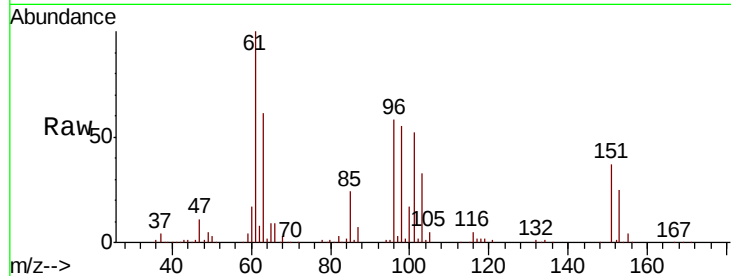
Tot Ion:101 Resp: 151247

Ion Ratio Lower Upper

101 100

85 43.5 35.3 52.9

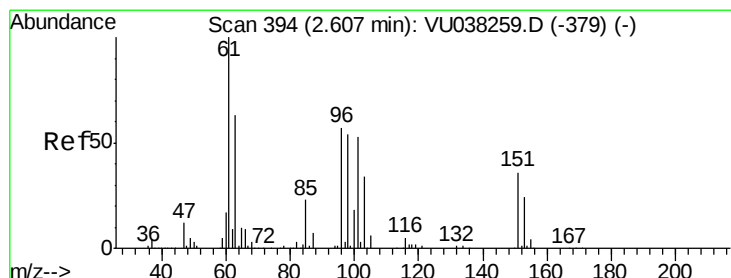
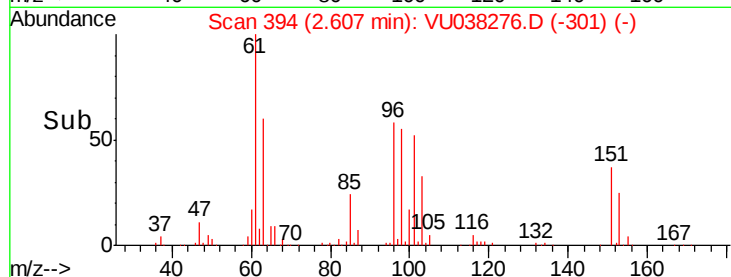
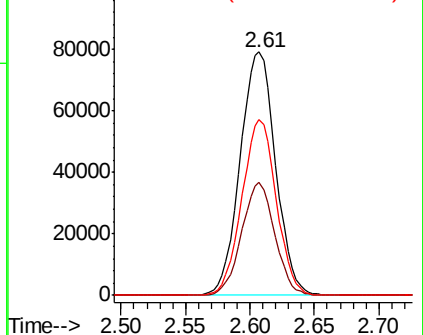
151 70.2 54.2 81.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 4.154 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU038276.D

Acq: 21 May 2020 20:07

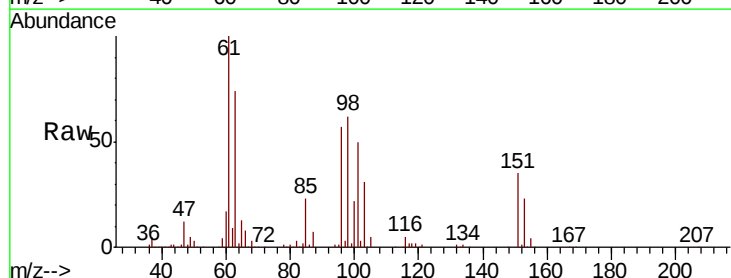
Tgt Ion: 96 Resp: 146928

Ion Ratio Lower Upper

96 100

61 175.9 126.2 234.4

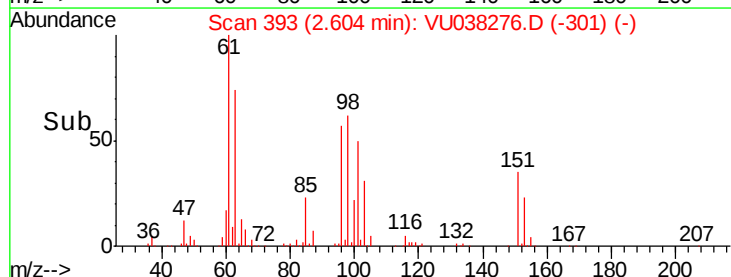
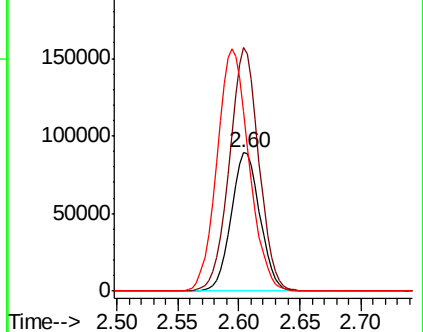
63 129.8 96.9 179.9

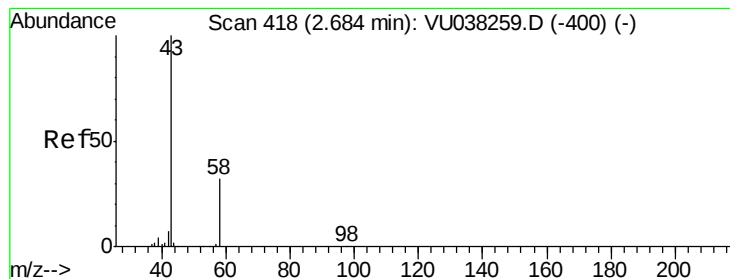


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 40.885 ug/L

RT: 2.66 min Scan# 411

Delta R.T. -0.02 min

Lab File: VU038276.D

Acq: 21 May 2020 20:07

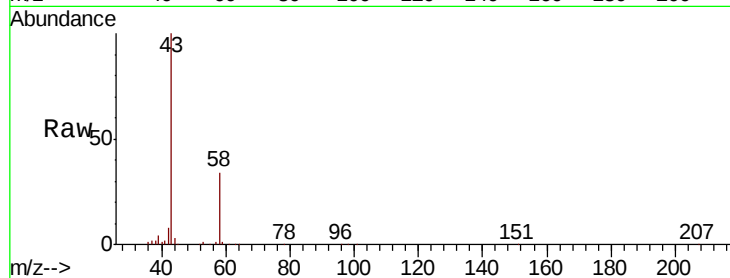
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 295050

Ion Ratio Lower Upper

43 100

58 33.3 0.0 63.6



Abundance Ion 43.05 (42.75 to 43.75): VU038276.D (-325) (-)

Ion 58.05 (57.75 to 58.75): VU038276.D (-325) (-)

2.66

150000

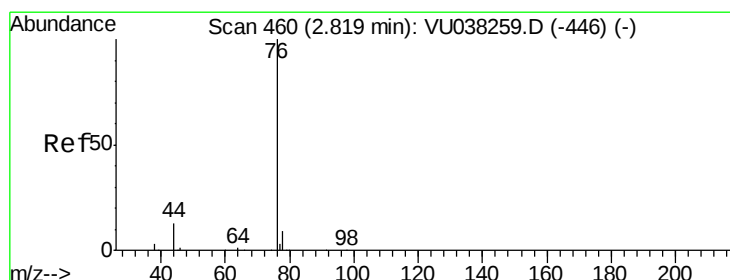
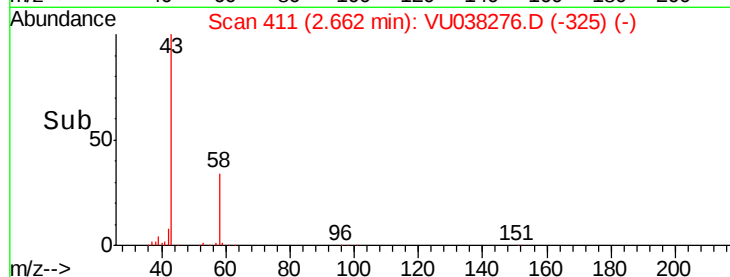
100000

50000

0

2.60 2.70 2.80

Time-->



#14

Carbon disulfide

Concen: 3.472 ug/L

RT: 2.82 min Scan# 460

Delta R.T. 0.00 min

Lab File: VU038276.D

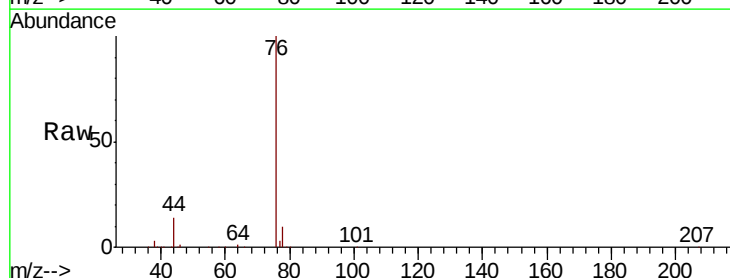
Acq: 21 May 2020 20:07

Tgt Ion: 76 Resp: 438036

Ion Ratio Lower Upper

76 100

78 9.5 7.1 10.7



Abundance Ion 76.05 (75.75 to 76.75): VU038276.D (-367) (-)

Ion 78.00 (77.70 to 78.70): VU038276.D (-367) (-)

2.82

300000

250000

200000

150000

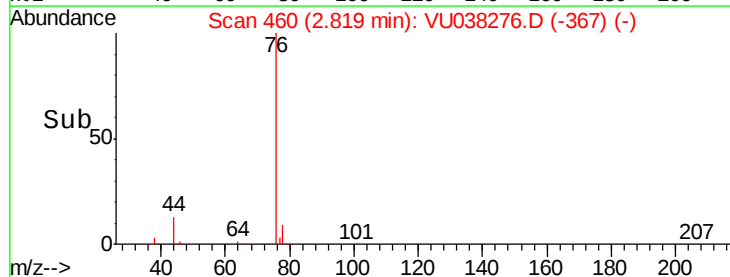
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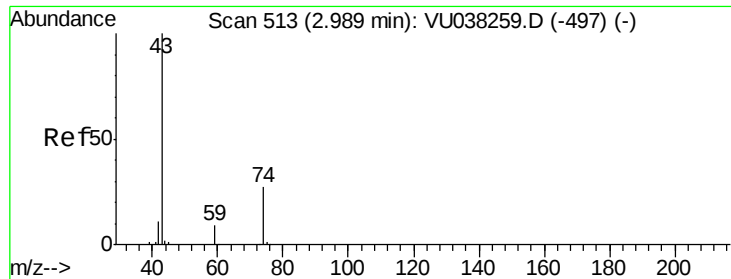
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0

2.75 2.80 2.85 2.90

Time-->

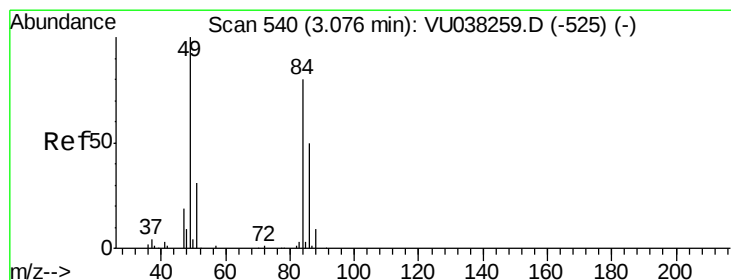
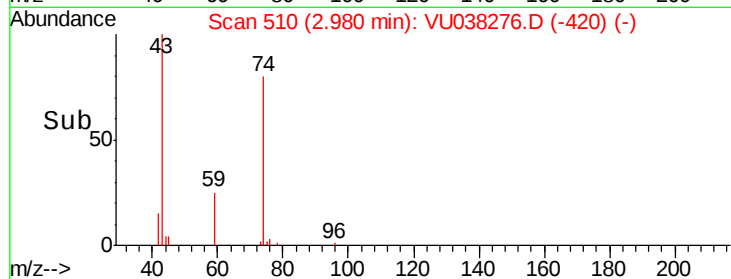
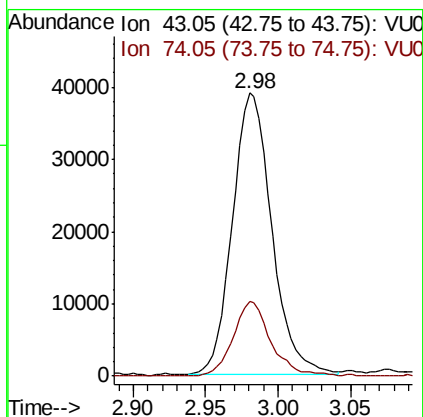
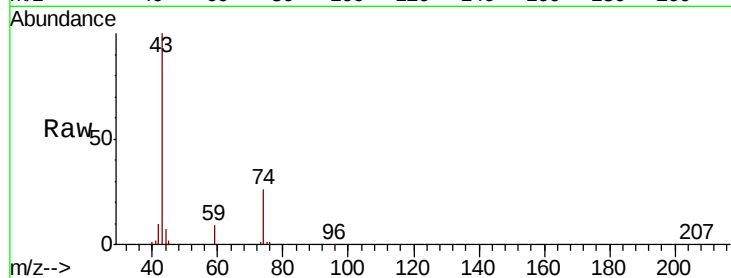




#15
Methvl Acetate
Concen: 3.636 ug/L
RT: 2.98 min Scan# 510
Delta R.T. -0.01 min
Lab File: VU038276.D
Acq: 21 May 2020 20:07

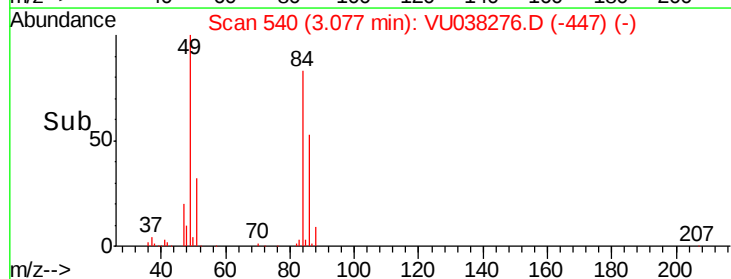
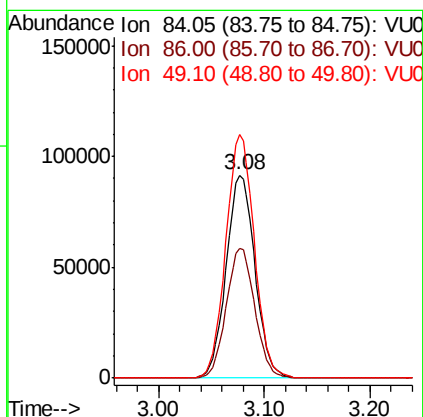
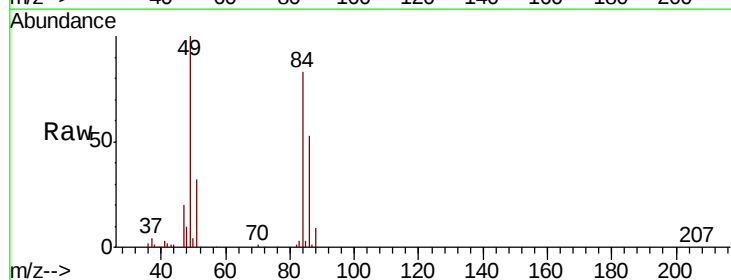
Instrument :
MSVOA_U
ClientSampleId :

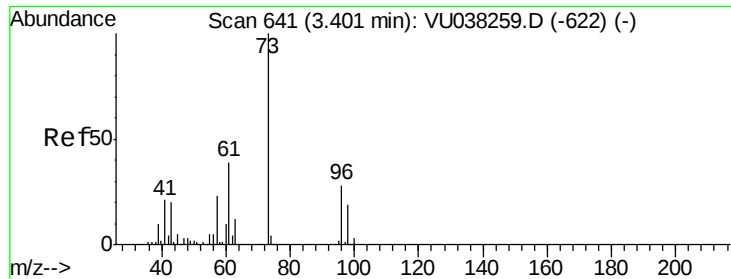
Tot Ion: 43 Resp: 73408
Ion Ratio Lower Upper
43 100
74 25.5 18.0 27.0



#16
Methylene chloride
Concen: 4.190 ug/L
RT: 3.08 min Scan# 540
Delta R.T. 0.00 min
Lab File: VU038276.D
Acq: 21 May 2020 20:07

Tgt Ion: 84 Resp: 172744
Ion Ratio Lower Upper
84 100
86 64.3 44.9 83.3
49 120.2 92.0 170.9



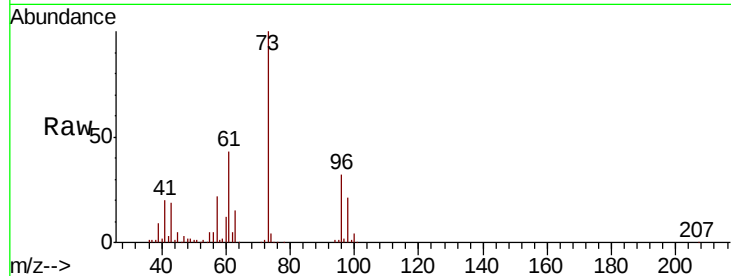


#17

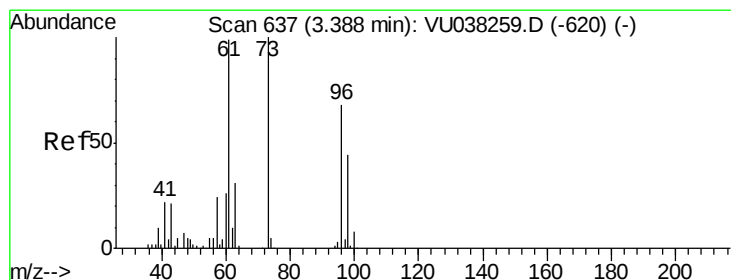
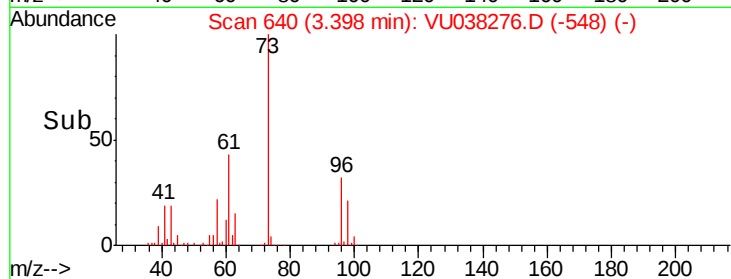
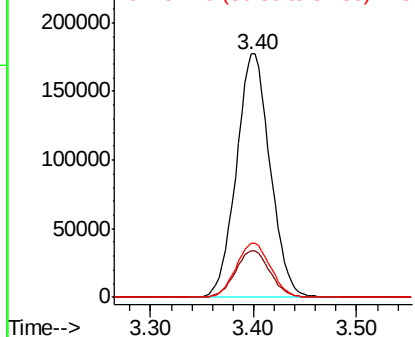
Methvl tert-butvl Ether
 Concen: 4.108 ug/L
 RT: 3.40 min Scan# 640
 Delta R.T. -0.00 min
 Lab File: VU038276.D
 Acq: 21 May 2020 20:07

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 73 Resp: 403729
 Ion Ratio Lower Upper
 73 100
 43 19.6 16.9 25.3
 57 22.7 18.2 27.2



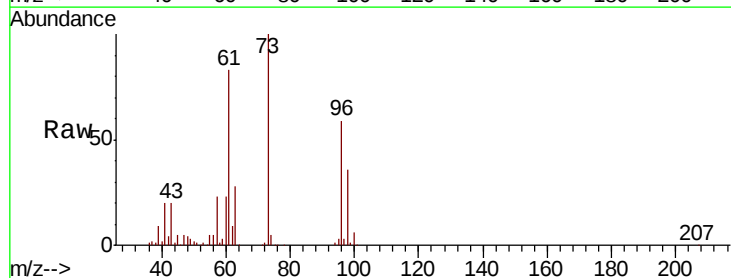
Abundance Ion 73.10 (72.80 to 73.80): VU0
 Ion 43.05 (42.75 to 43.75): VU0
 Ion 57.10 (56.80 to 57.80): VU0



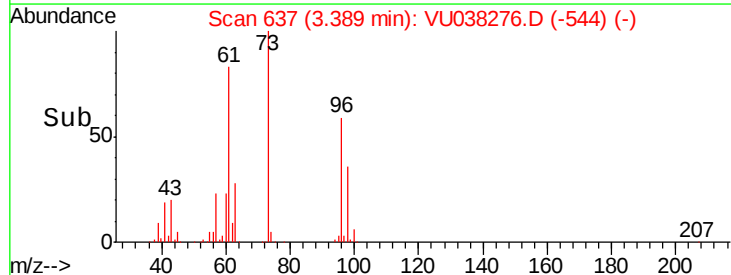
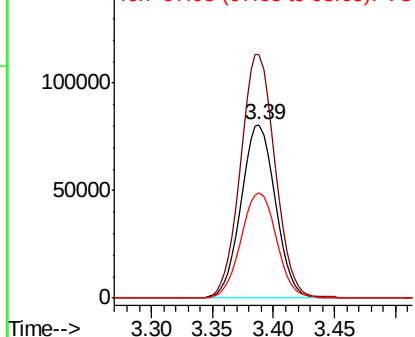
#18

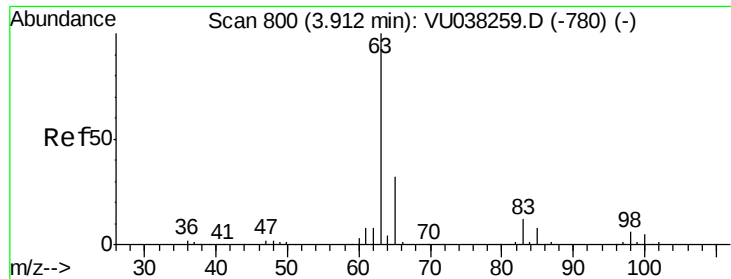
trans-1,2-Dichloroethene
 Concen: 4.069 ug/L
 RT: 3.39 min Scan# 637
 Delta R.T. 0.00 min
 Lab File: VU038276.D
 Acq: 21 May 2020 20:07

Tgt Ion: 96 Resp: 157132
 Ion Ratio Lower Upper
 96 100
 61 140.2 102.1 189.5
 98 60.6 45.6 84.8



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 97.95 (97.65 to 98.65): VU0

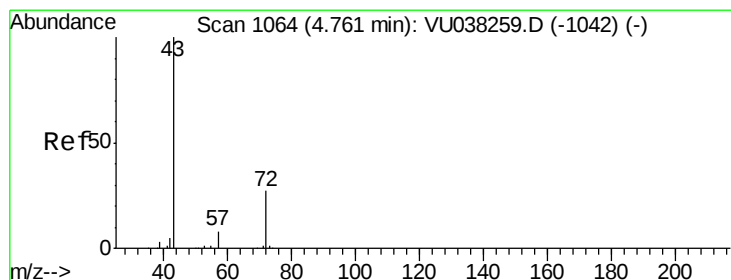
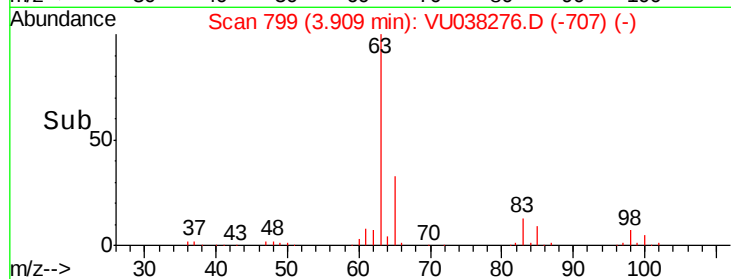
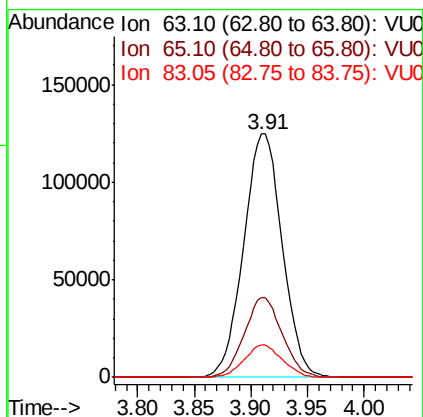
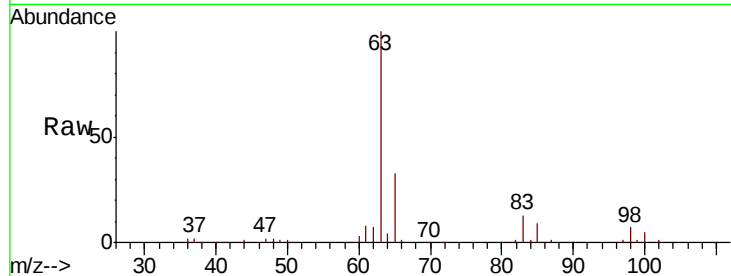




#19
 1,1-Dichloroethane
 Concen: 3.927 ug/L
 RT: 3.91 min Scan# 799
 Delta R.T. -0.00 min
 Lab File: VU038276.D
 Acq: 21 May 2020 20:07

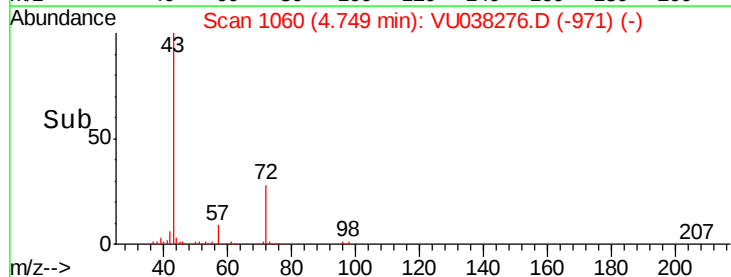
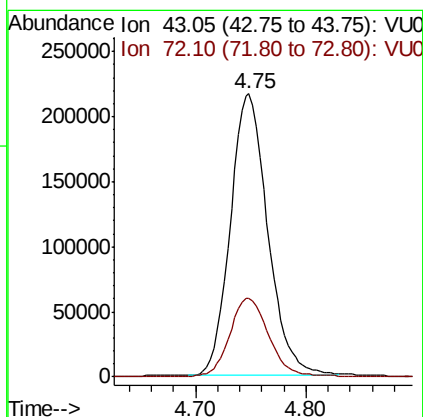
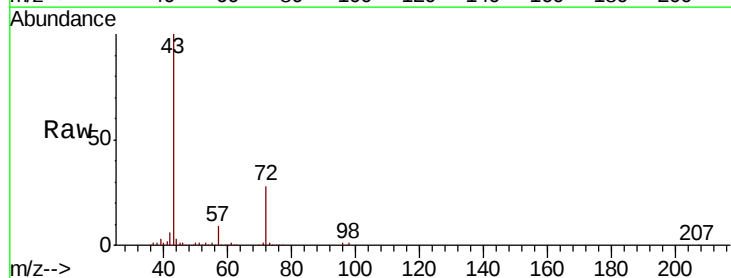
Instrument :
 MSVOA_U
 ClientSampleId :

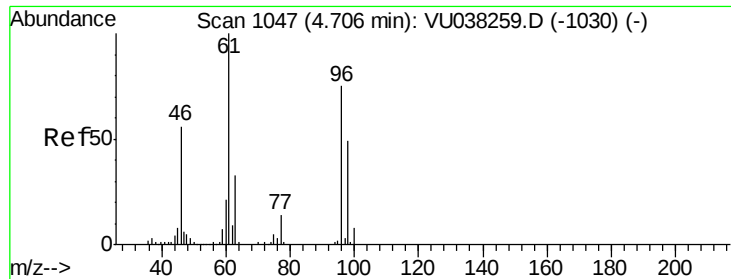
Tot Ion: 63 Resp: 296187
 Ion Ratio Lower Upper
 63 100
 65 32.9 22.5 41.7
 83 13.4 8.9 16.5



#21
 2-Butanone
 Concen: 39.930 ug/L
 RT: 4.75 min Scan# 1060
 Delta R.T. -0.01 min
 Lab File: VU038276.D
 Acq: 21 May 2020 20:07

Tgt Ion: 43 Resp: 508622
 Ion Ratio Lower Upper
 43 100
 72 28.9 13.5 40.4



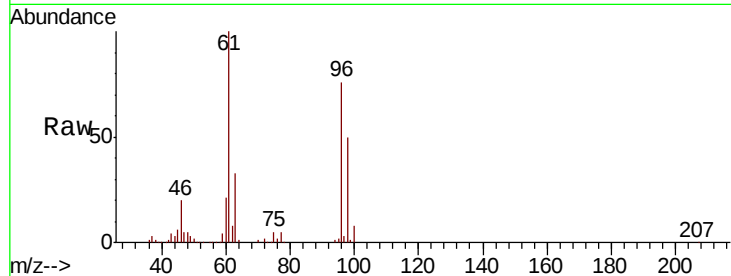


#22

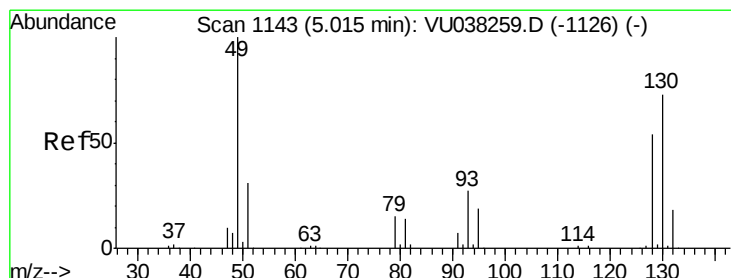
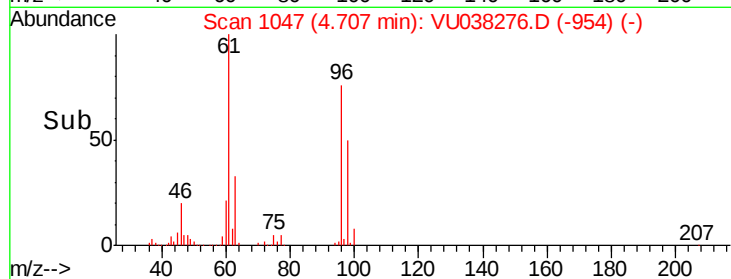
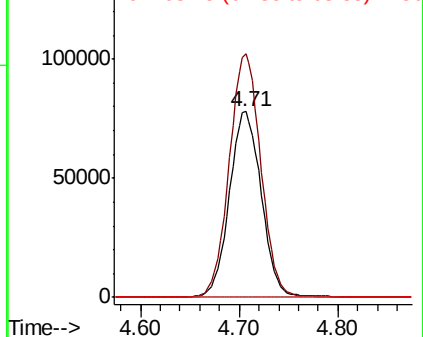
cis-1,2-Dichloroethene
 Concen: 4.198 ug/L
 RT: 4.71 min Scan# 1047
 Delta R.T. 0.00 min
 Lab File: VU038276.D
 Acq: 21 May 2020 20:07

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion: 96 Resp: 174708
 Ion Ratio Lower Upper
 96 100
 61 131.0 95.3 176.9
 68 0.0 0.0 0.0



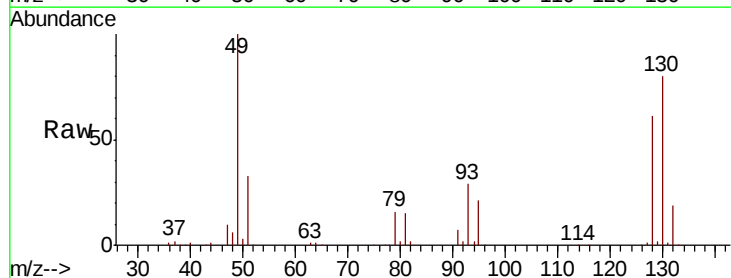
Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0



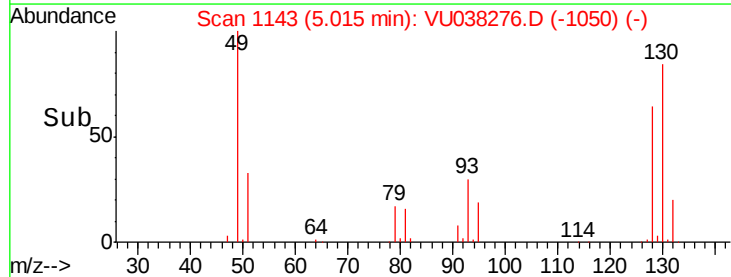
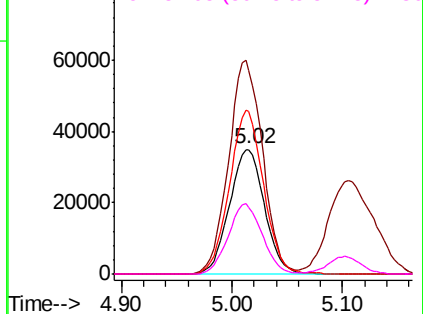
#23

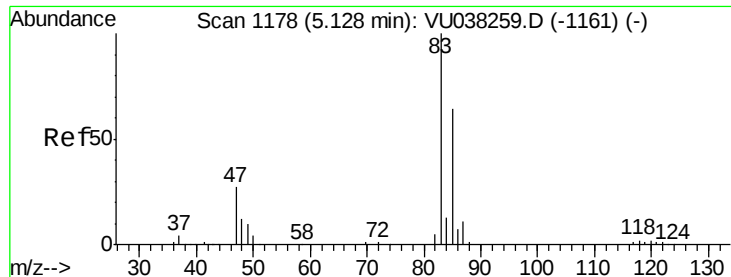
Bromochloromethane
 Concen: 4.292 ug/L
 RT: 5.02 min Scan# 1143
 Delta R.T. 0.00 min
 Lab File: VU038276.D
 Acq: 21 May 2020 20:07

Tgt Ion: 128 Resp: 76862
 Ion Ratio Lower Upper
 128 100
 49 163.3 135.6 251.8
 130 130.3 91.4 169.8
 51 53.7 49.6 74.4



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

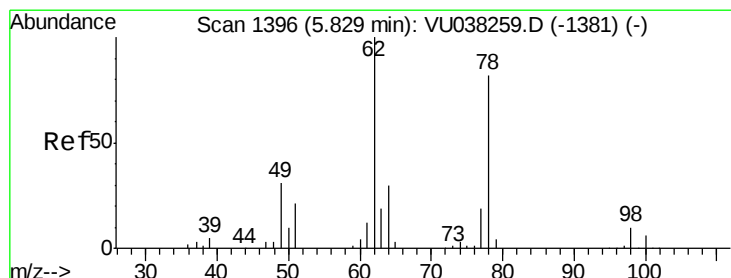
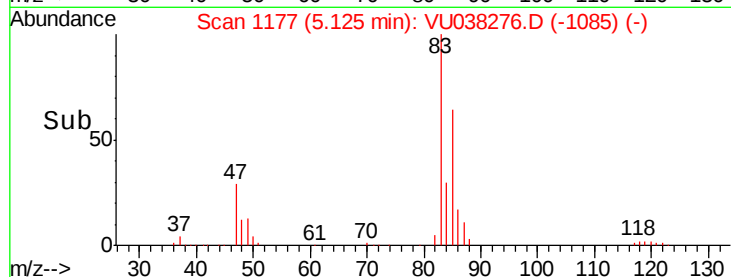
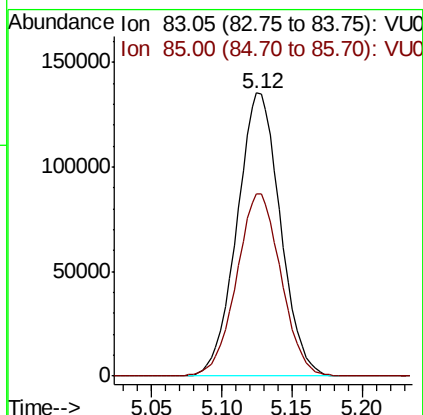
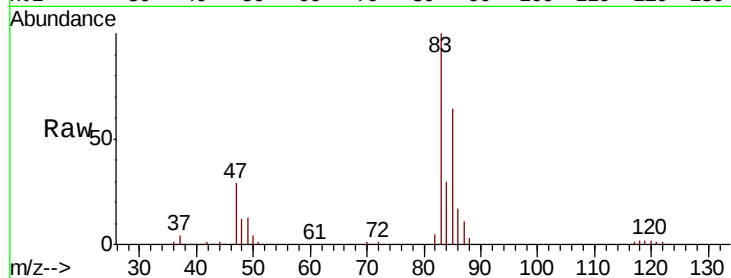




#25
Chloroform
Concen: 4.138 ug/L
RT: 5.12 min Scan# 1177
Delta R.T. -0.00 min
Lab File: VU038276.D
Acq: 21 May 2020 20:07

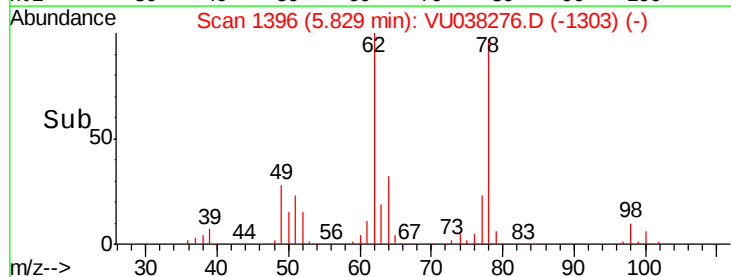
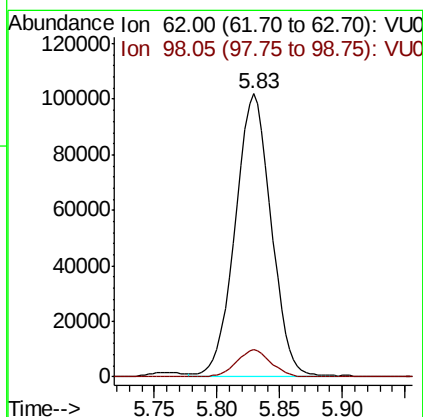
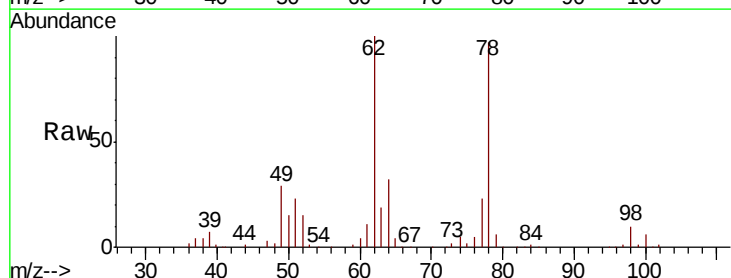
Instrument :
MSVOA_U
ClientSampleId :

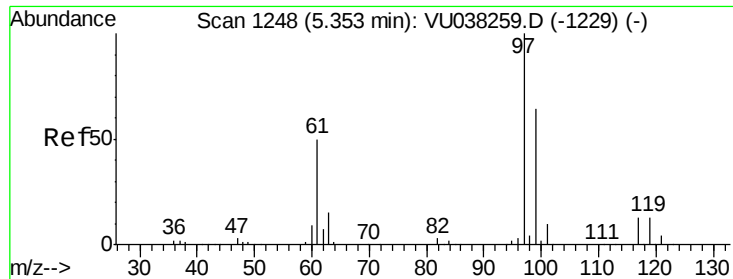
Tot Ion: 83 Resp: 291130
Ion Ratio Lower Upper
83 100
85 64.5 46.2 85.8



#27
1,2-Dichloroethane
Concen: 4.049 ug/L
RT: 5.83 min Scan# 1396
Delta R.T. 0.00 min
Lab File: VU038276.D
Acq: 21 May 2020 20:07

Tgt Ion: 62 Resp: 201092
Ion Ratio Lower Upper
62 100
98 9.8 7.8 11.8

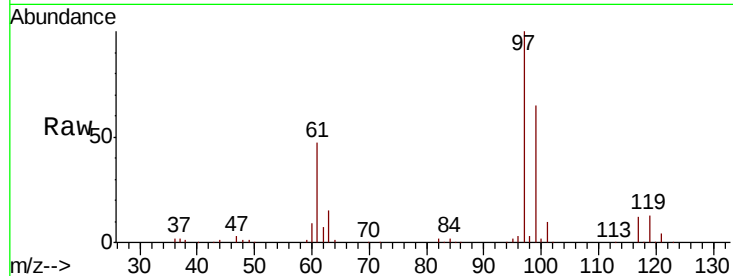




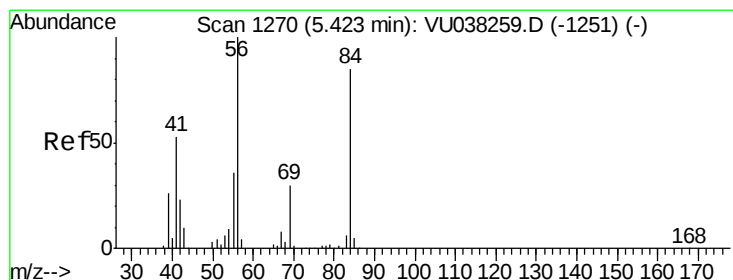
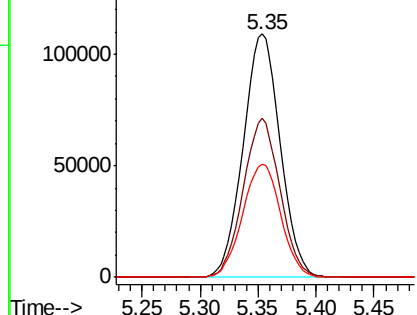
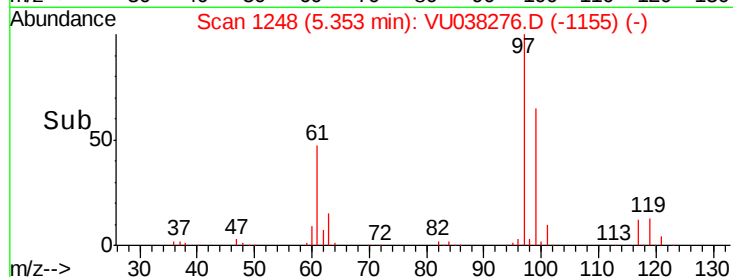
#29
1,1,1-Trichloroethane
Concen: 4.262 ug/L
RT: 5.35 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VU038276.D
Acq: 21 May 2020 20:07

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 97 Resp: 242693
Ion Ratio Lower Upper
97 100
99 64.9 51.0 76.4
61 48.0 38.2 57.4

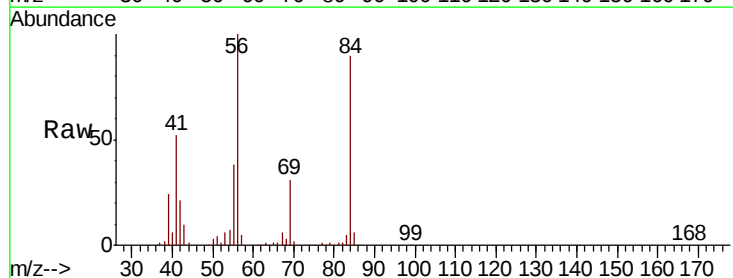


Abundance Ion 96.95 (96.65 to 97.65): VU0
Ion 99.05 (98.75 to 99.75): VU0
Ion 61.05 (60.75 to 61.75): VU0

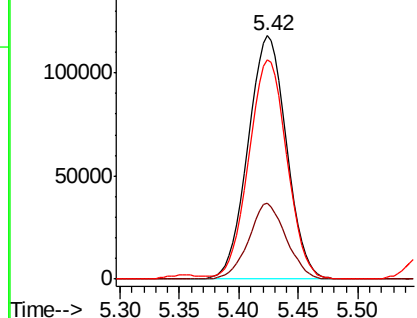
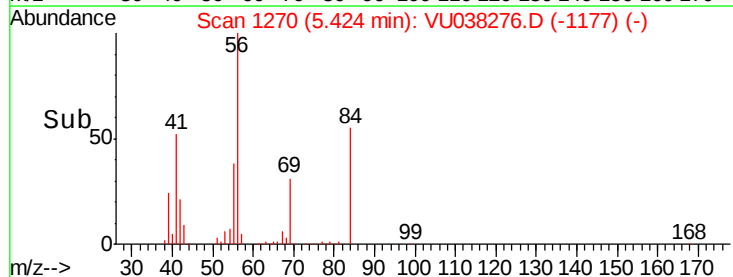


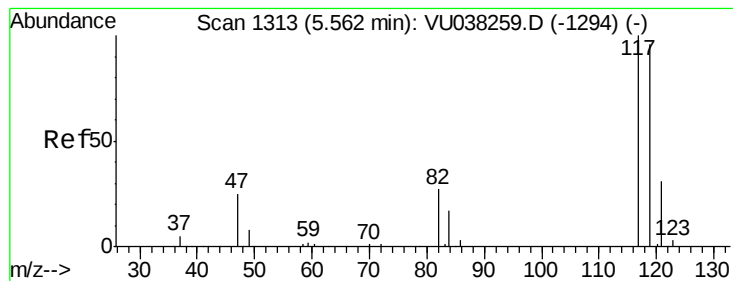
#30
Cyclohexane
Concen: 3.936 ug/L
RT: 5.42 min Scan# 1270
Delta R.T. 0.00 min
Lab File: VU038276.D
Acq: 21 May 2020 20:07

Tgt Ion: 56 Resp: 264678
Ion Ratio Lower Upper
56 100
69 30.1 24.2 36.4
84 89.4 68.5 102.7



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: 4.310 ug/L

RT: 5.56 min Scan# 1313

Delta R.T. 0.00 min

Lab File: VU038276.D

Acq: 21 May 2020 20:07

Instrument :

MSVOA_U

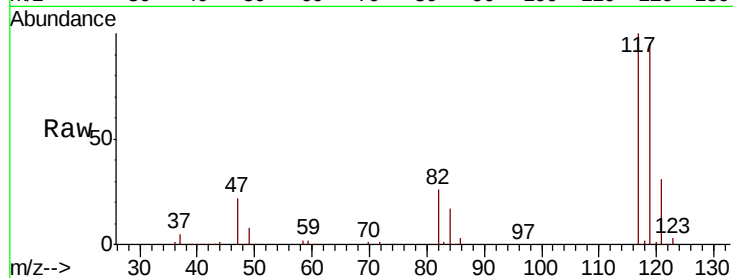
ClientSampled :

Tot Ion:117 Resp: 197260

Ion Ratio Lower Upper

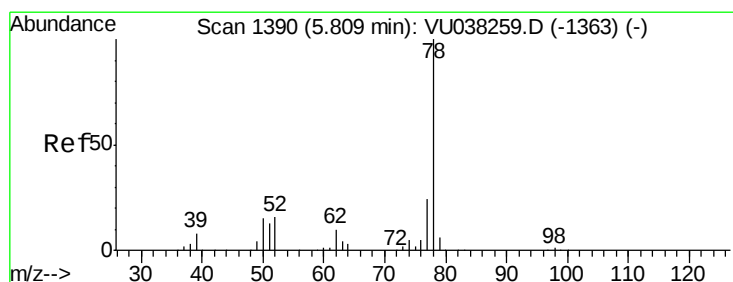
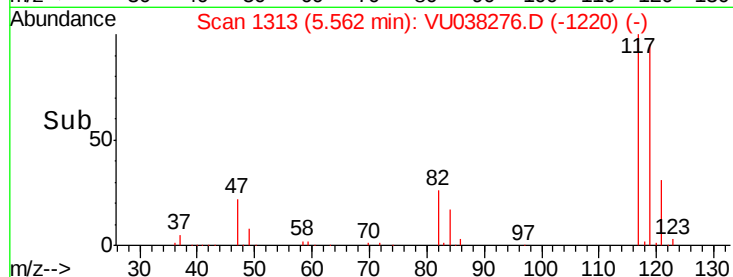
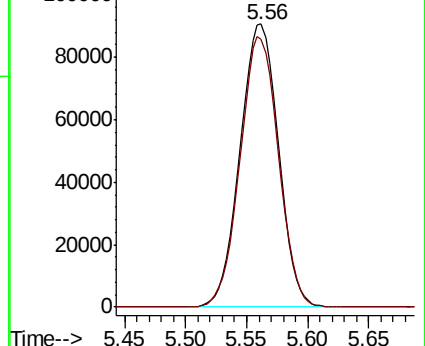
117 100

119 95.4 75.4 113.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.136 ug/L

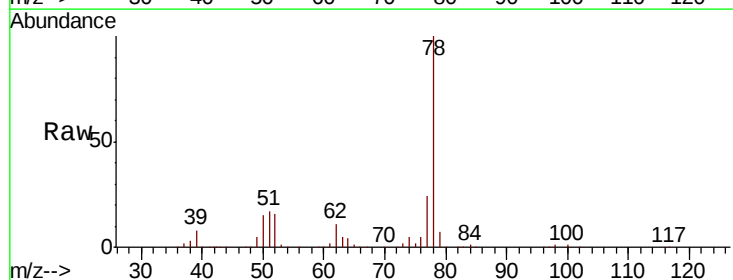
RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

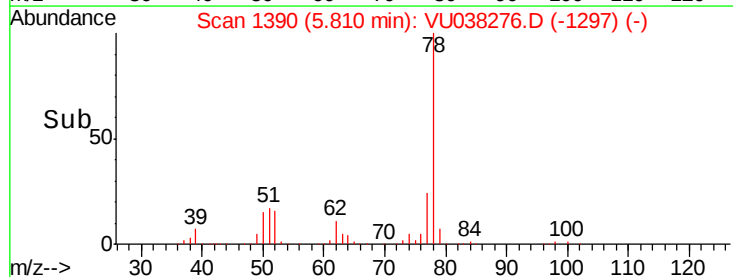
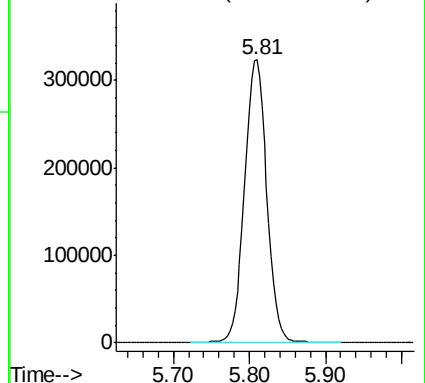
Lab File: VU038276.D

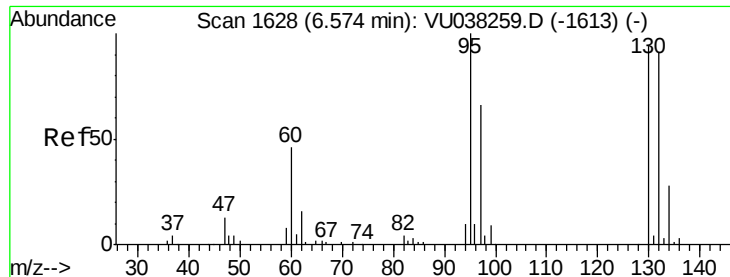
Acq: 21 May 2020 20:07

Tgt Ion: 78 Resp: 658375



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 4.082 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. -0.00 min

Lab File: VU038276.D

Acq: 21 May 2020 20:07

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 162512

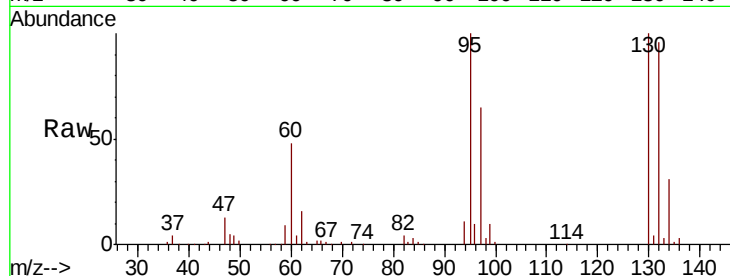
Ion Ratio Lower Upper

95 100

97 65.3 44.9 83.3

132 96.2 63.3 117.5

130 99.8 65.7 122.1

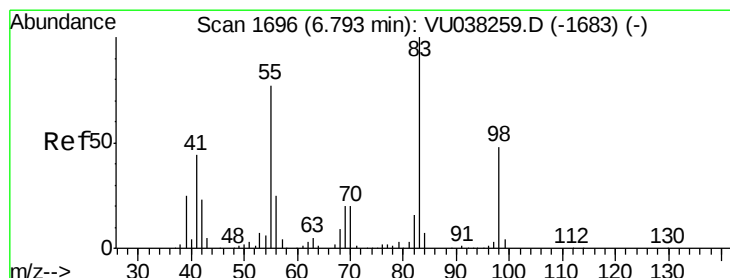
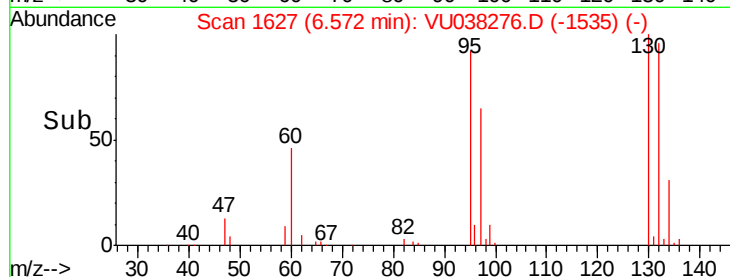
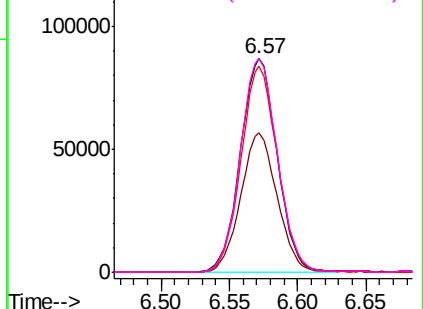


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 4.212 ug/L

RT: 6.79 min Scan# 1696

Delta R.T. 0.00 min

Lab File: VU038276.D

Acq: 21 May 2020 20:07

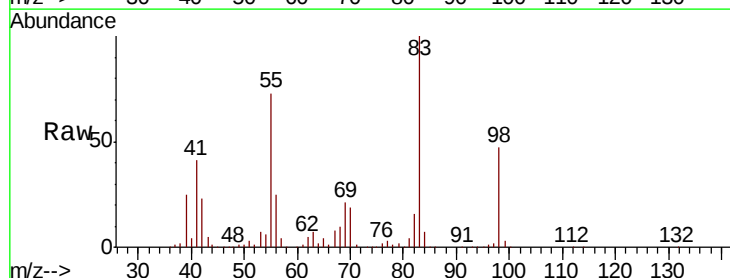
Tgt Ion: 83 Resp: 271638

Ion Ratio Lower Upper

83 100

55 73.6 66.7 100.1

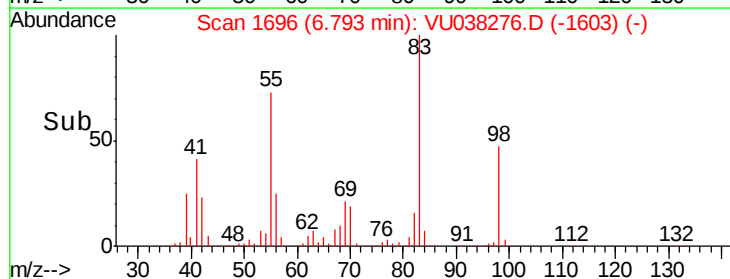
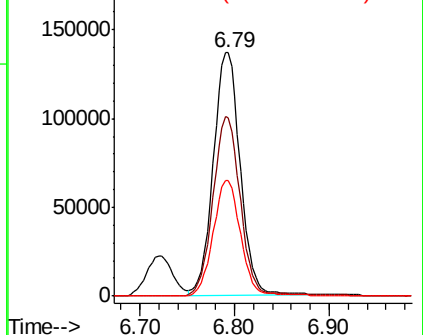
98 48.0 39.4 59.2

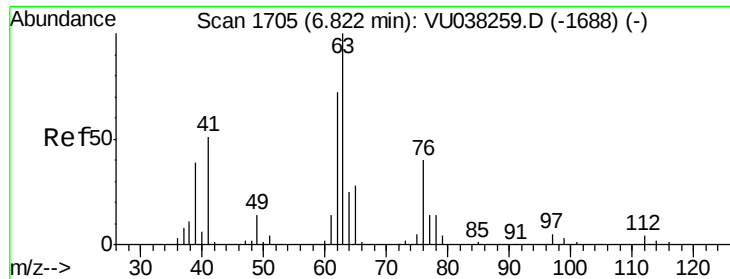


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

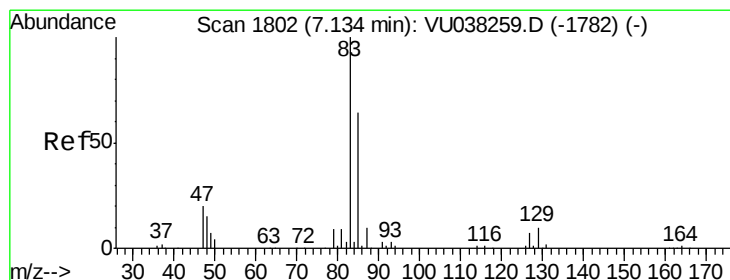
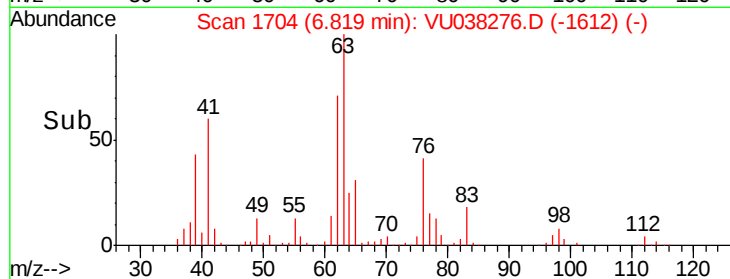
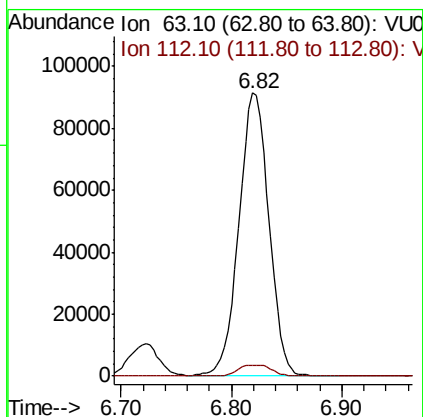
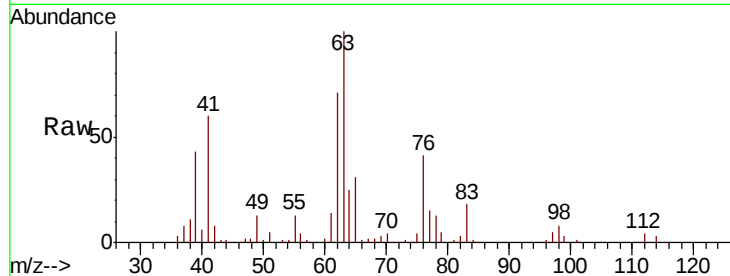




#37
 1,2-Dichloropropane
 Concen: 3.976 ug/L
 RT: 6.82 min Scan# 1704
 Delta R.T. -0.00 min
 Lab File: VU038276.D
 Acq: 21 May 2020 20:07

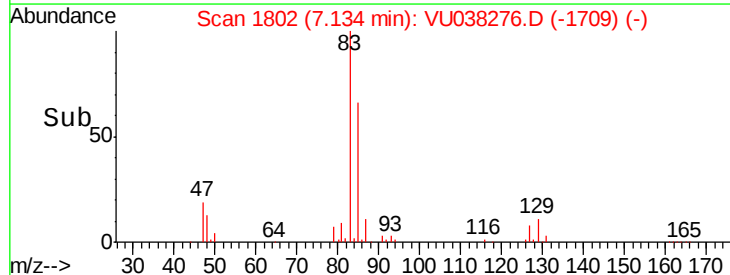
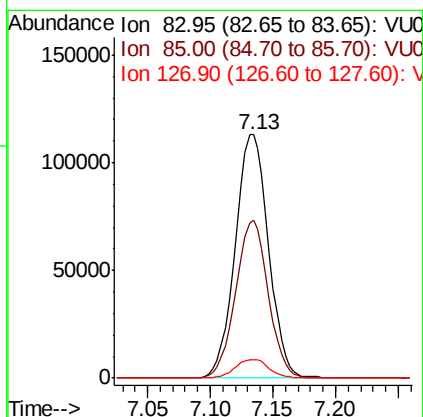
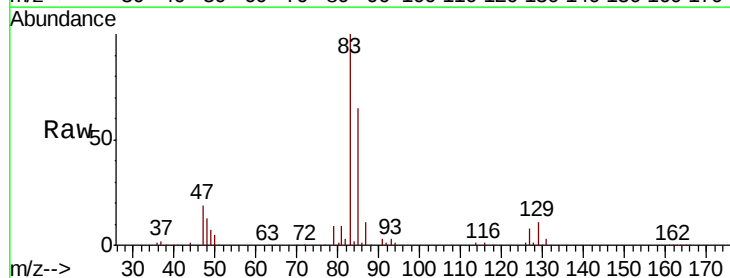
Instrument :
 MSVOA_U
 ClientSampled :

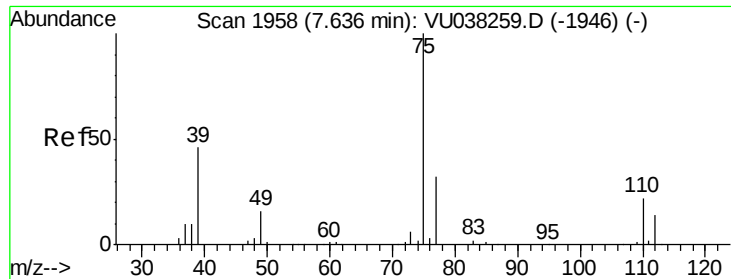
Tot Ion: 63 Resp: 171889
 Ion Ratio Lower Upper
 63 100
 112 4.4 3.1 4.7



#38
 Bromodichloromethane
 Concen: 4.174 ug/L
 RT: 7.13 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VU038276.D
 Acq: 21 May 2020 20:07

Tgt Ion: 83 Resp: 208612
 Ion Ratio Lower Upper
 83 100
 85 65.0 44.6 82.8
 127 7.7 6.4 9.6

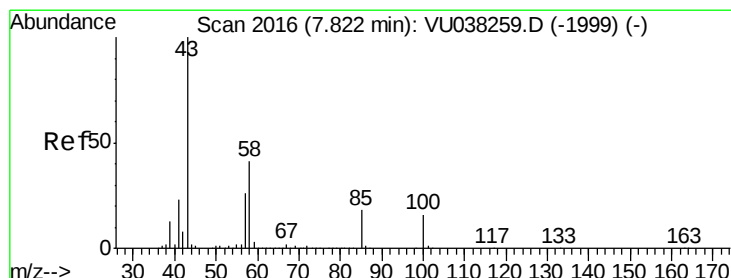
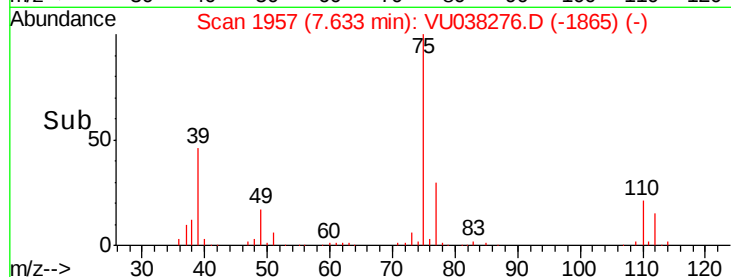
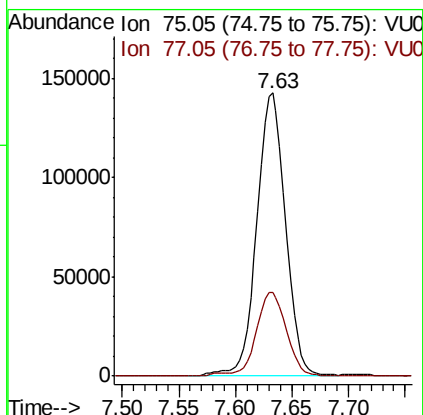
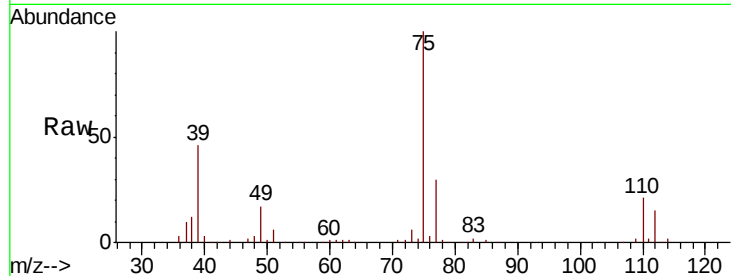




#39
 cis-1,3-Dichloropropene
 Concen: 4.068 ug/L
 RT: 7.63 min Scan# 1957
 Delta R.T. -0.00 min
 Lab File: VU038276.D
 Acq: 21 May 2020 20:07

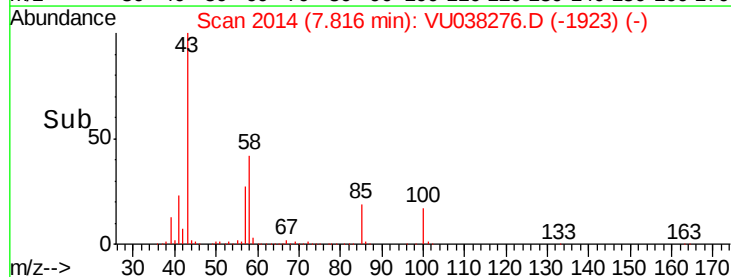
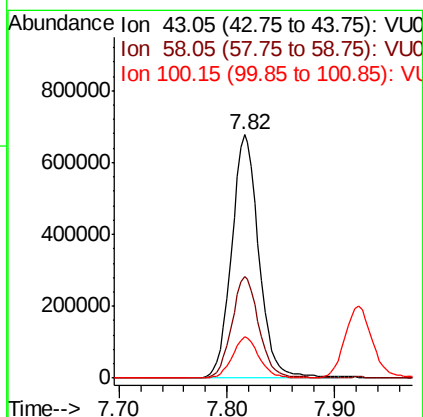
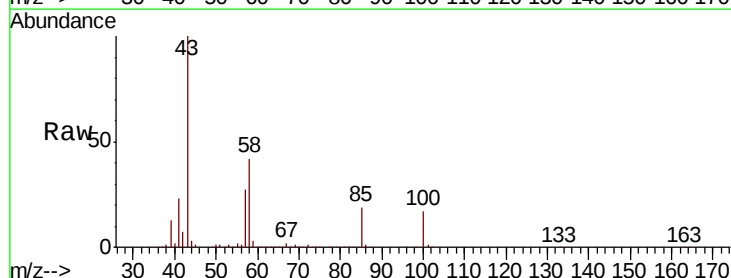
Instrument :
 MSVOA_U
 ClientSampleId :

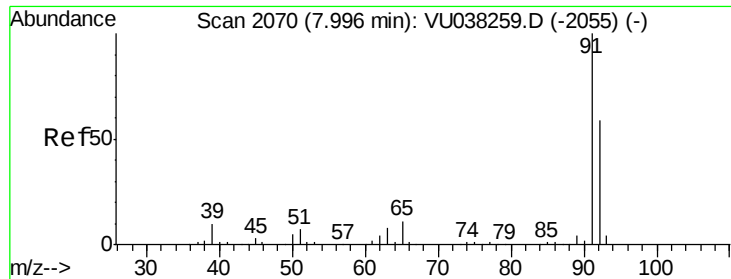
Tot Ion: 75 Resp: 251723
 Ion Ratio Lower Upper
 75 100
 77 29.6 22.4 41.6



#40
 4-Methyl-2-pentanone
 Concen: 39.837 ug/L
 RT: 7.82 min Scan# 2014
 Delta R.T. -0.01 min
 Lab File: VU038276.D
 Acq: 21 May 2020 20:07

Tgt Ion: 43 Resp: 1193688
 Ion Ratio Lower Upper
 43 100
 58 41.7 32.2 48.4
 100 16.7 12.1 18.1





#42

Toluene

Concen: 4.180 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. -0.00 min

Lab File: VU038276.D

Acq: 21 May 2020 20:07

Instrument :

MSVOA_U

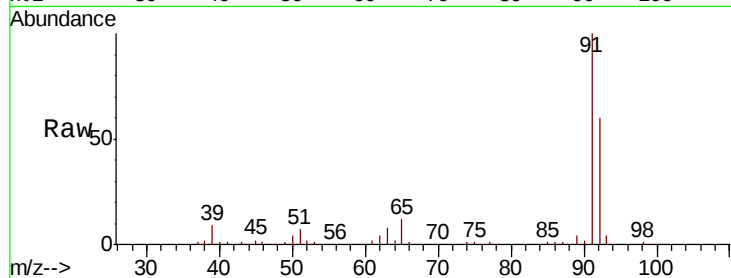
ClientSampled :

Tot Ion: 91 Resp: 702381

Ion Ratio Lower Upper

91 100

92 59.7 40.9 75.9



Abundance Ion 91.15 (90.85 to 91.85): VU038259.D (-2055) (-)

Ion 92.15 (91.85 to 92.85): VU038276.D (-1977) (-)

7.99

400000

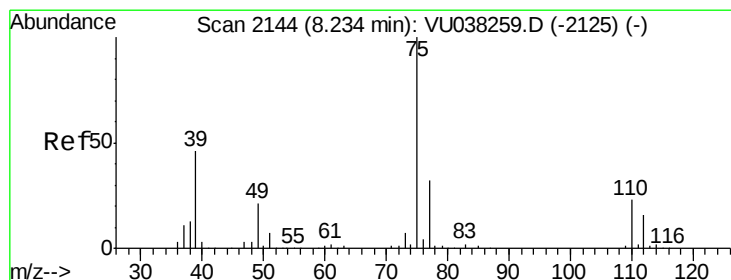
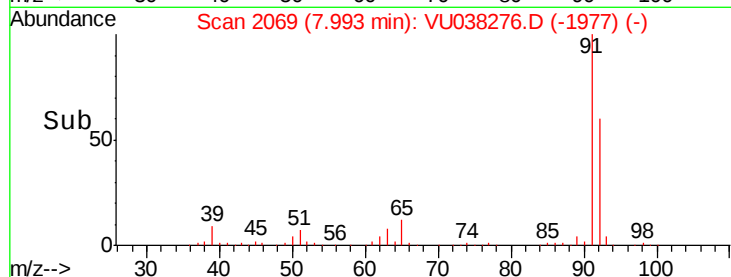
300000

200000

100000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.080 ug/L

RT: 8.23 min Scan# 2143

Delta R.T. -0.00 min

Lab File: VU038276.D

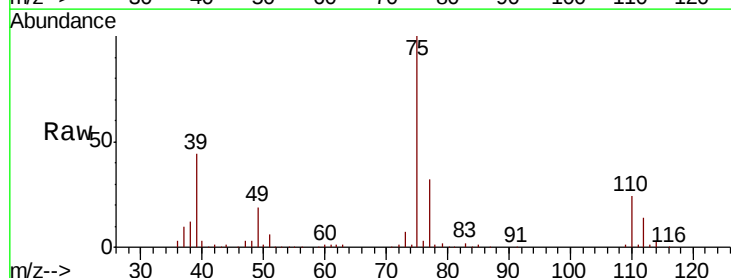
Acq: 21 May 2020 20:07

Tgt Ion: 75 Resp: 214663

Ion Ratio Lower Upper

75 100

77 31.6 22.4 41.6



Abundance Ion 75.05 (74.75 to 75.75): VU038259.D (-2125) (-)

Ion 77.05 (76.75 to 77.75): VU038276.D (-2051) (-)

8.23

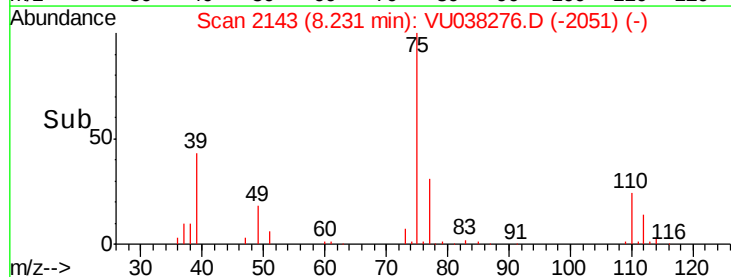
150000

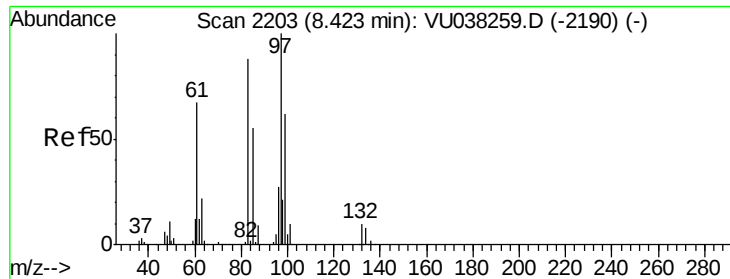
100000

50000

0

Time-->

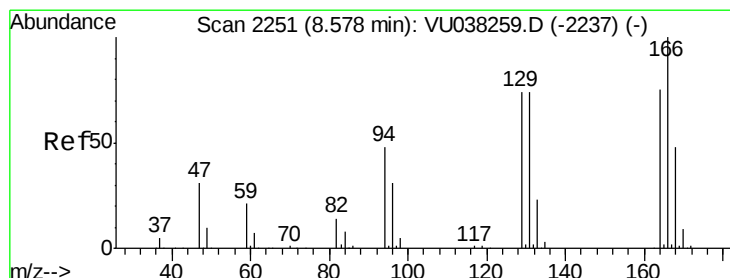
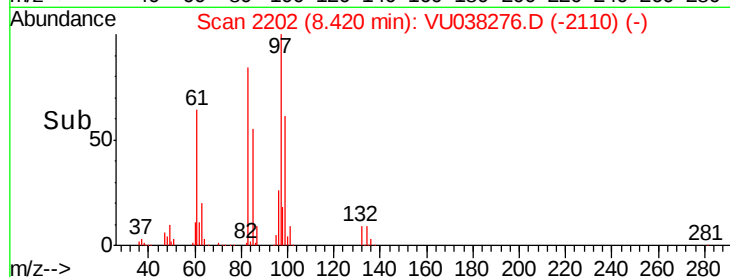
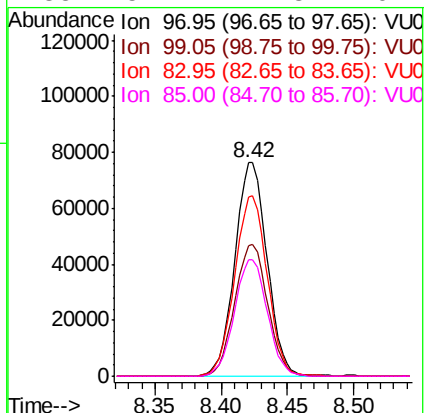
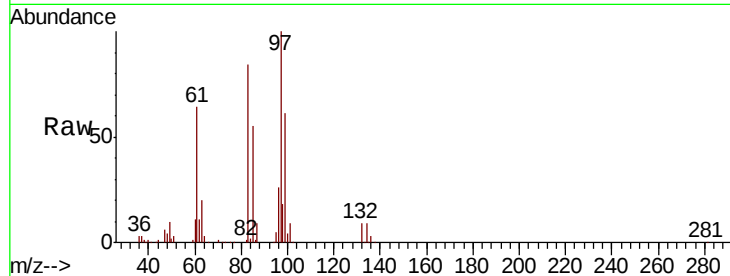




#45
 1,1,2-Trichloroethane
 Concen: 4.295 ug/L
 RT: 8.42 min Scan# 2202
 Delta R.T. -0.00 min
 Lab File: VU038276.D
 Acq: 21 May 2020 20:07

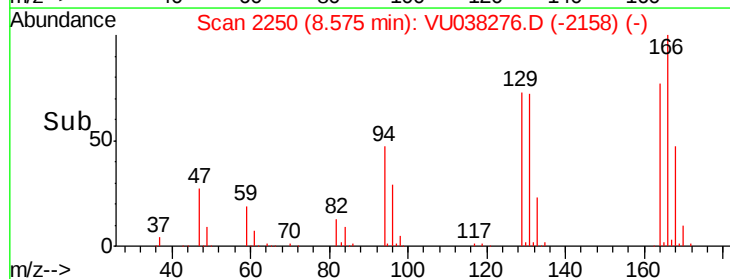
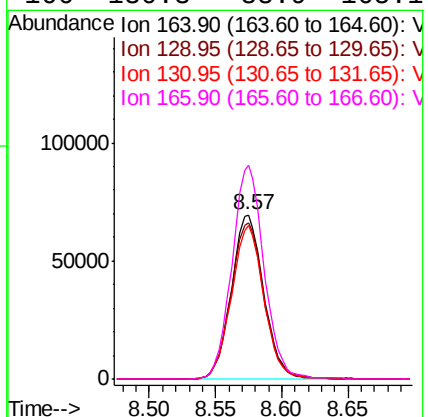
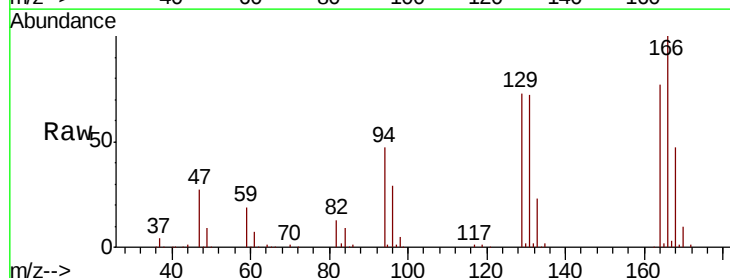
Instrument :
 MSVOA_U
 ClientSampleId :

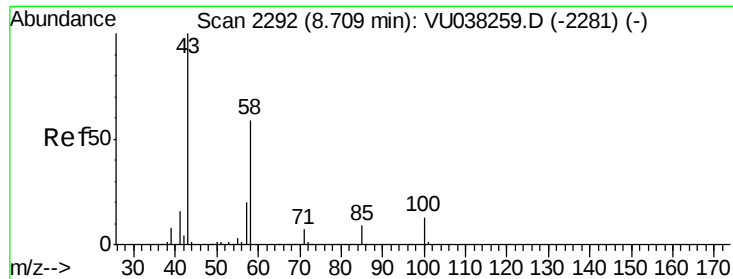
Tot Ion:	97	Resp:	128942
Ion	Ratio	Lower	Upper
97	100		
99	61.0	44.0	81.6
83	83.8	59.6	110.8
85	54.7	41.3	76.7



#47
 Tetrachloroethene
 Concen: 4.257 ug/L
 RT: 8.57 min Scan# 2250
 Delta R.T. -0.00 min
 Lab File: VU038276.D
 Acq: 21 May 2020 20:07

Tgt Ion:	164	Resp:	118536
Ion	Ratio	Lower	Upper
164	100		
129	95.3	68.8	127.8
131	93.6	66.8	124.2
166	130.3	88.9	165.1

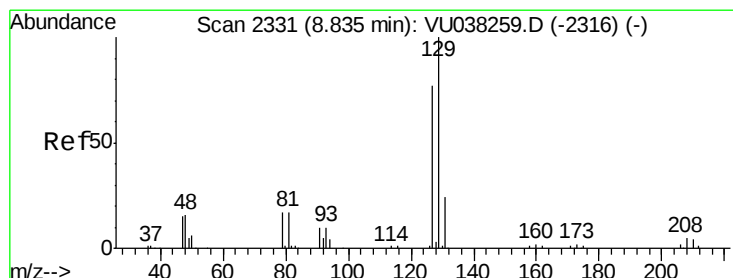
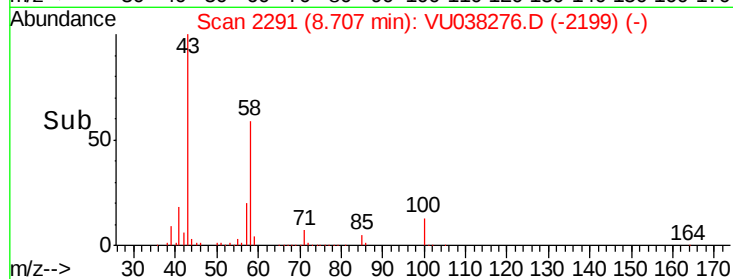
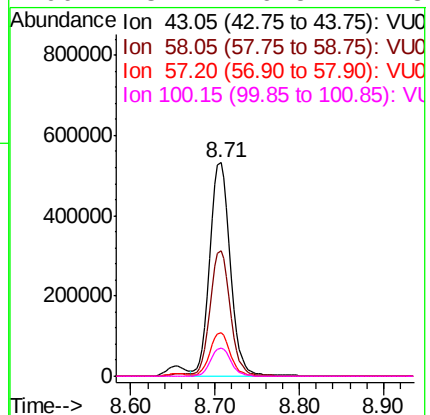
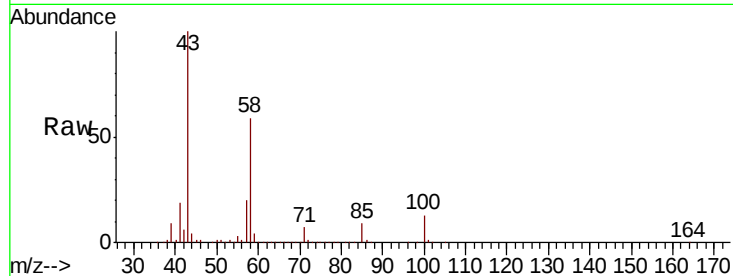




#48
2-Hexanone
Concen: 41.073 ug/L
RT: 8.71 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VU038276.D
Acq: 21 May 2020 20:07

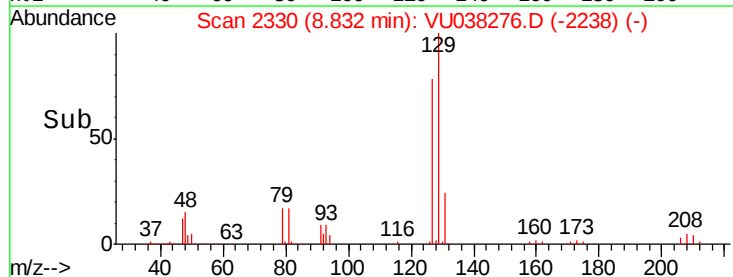
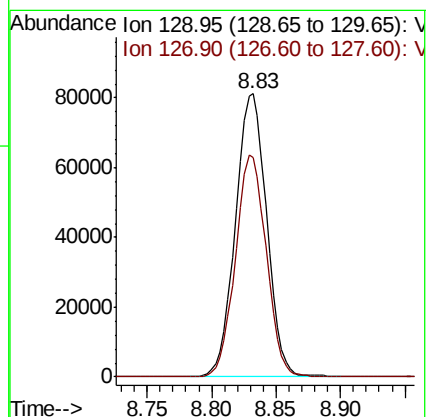
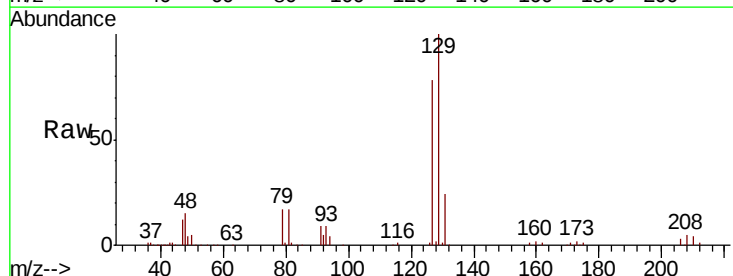
Instrument :
MSVOA_U
ClientSampleId :

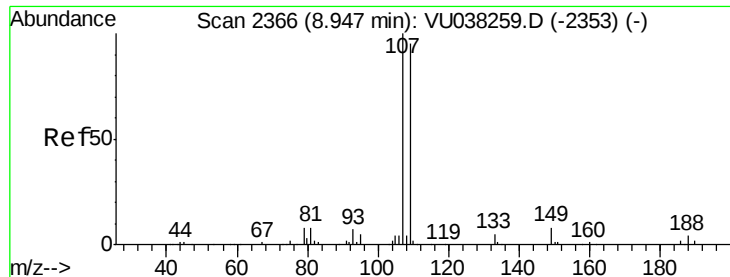
Tot Ion: 43 Resp: 901327
Ion Ratio Lower Upper
43 100
58 58.3 45.2 67.8
57 20.1 15.5 23.3
100 13.1 9.5 14.3



#49
Dibromochloromethane
Concen: 4.398 ug/L
RT: 8.83 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VU038276.D
Acq: 21 May 2020 20:07

Tgt Ion: 129 Resp: 137046
Ion Ratio Lower Upper
129 100
127 77.7 55.6 103.4

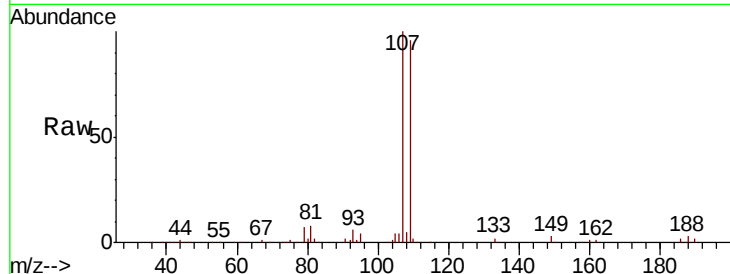




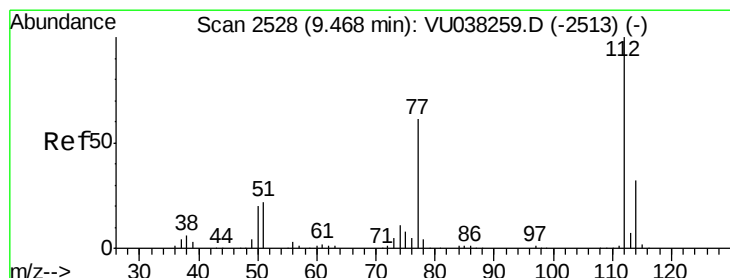
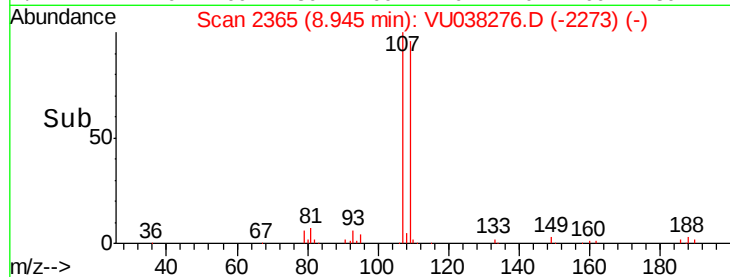
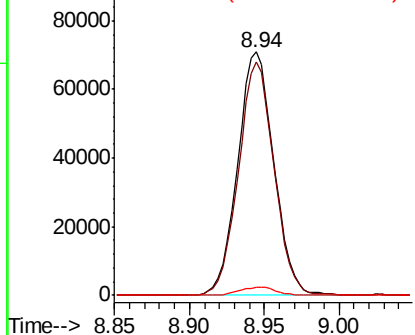
#50
1,2-Dibromoethane
Concen: 4.285 ug/L
RT: 8.94 min Scan# 2365
Delta R.T. -0.00 min
Lab File: VU038276.D
Acq: 21 May 2020 20:07

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.7	65.1	120.9
188	3.2	2.6	4.0

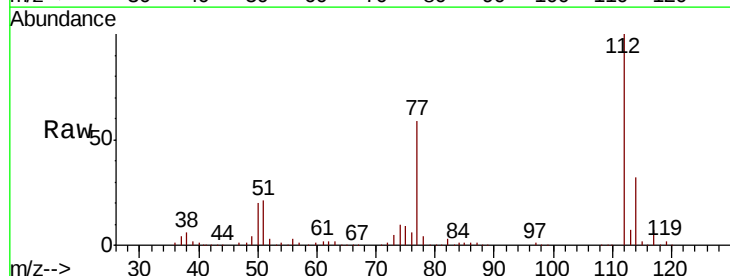


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

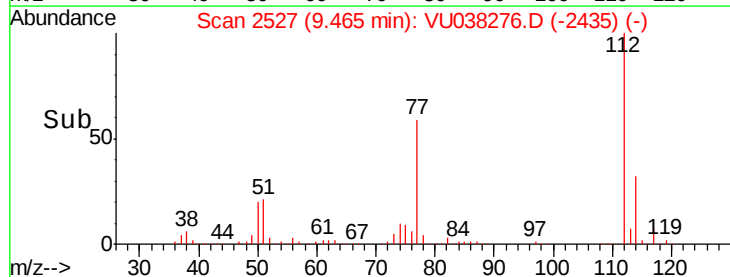
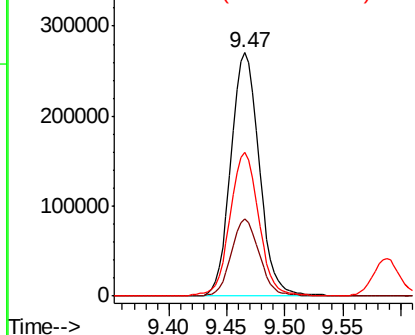


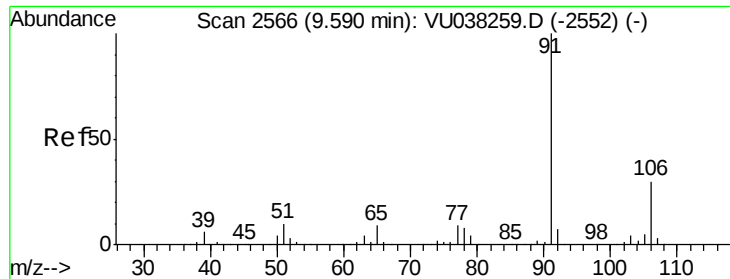
#51
Chlorobenzene
Concen: 4.406 ug/L
RT: 9.47 min Scan# 2527
Delta R.T. -0.00 min
Lab File: VU038276.D
Acq: 21 May 2020 20:07

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.8	22.5	41.7
77	58.9	49.9	74.9



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





#52

Ethylbenzene

Concen: 4.286 ug/L

RT: 9.59 min Scan# 2565

Delta R.T. -0.00 min

Lab File: VU038276.D

Acq: 21 May 2020 20:07

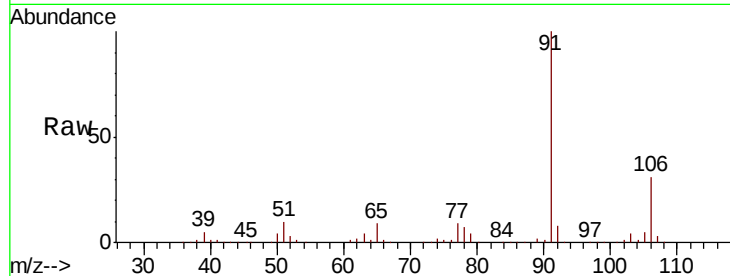
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 91 Resp: 780015

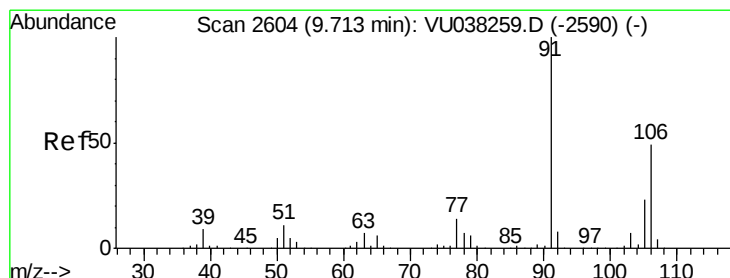
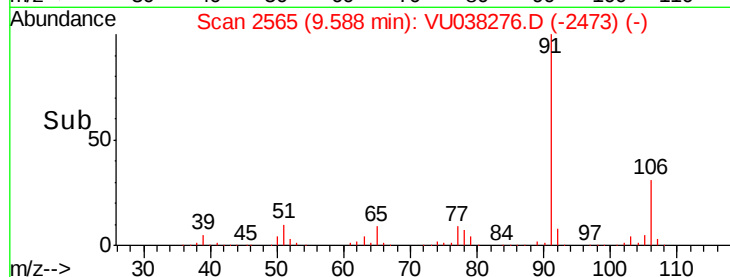
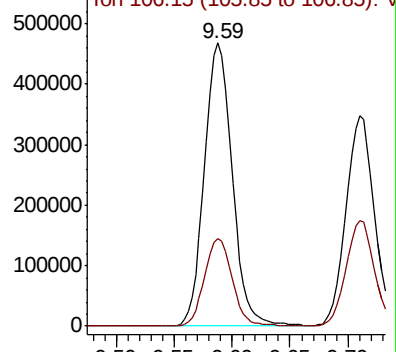
Ion Ratio Lower Upper

91 100

106 31.1 21.8 40.4



Abundance Ion 91.15 (90.85 to 91.85): VU038259.D (-2552) (-)



#53

m,p-Xylene

Concen: 4.330 ug/L

RT: 9.71 min Scan# 2603

Delta R.T. -0.00 min

Lab File: VU038276.D

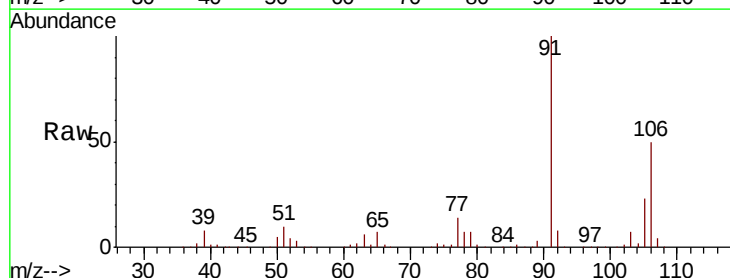
Acq: 21 May 2020 20:07

Tgt Ion: 106 Resp: 302227

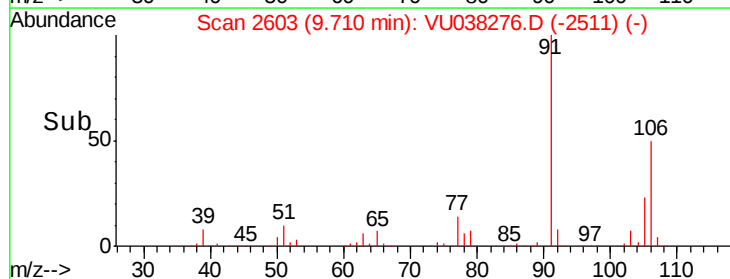
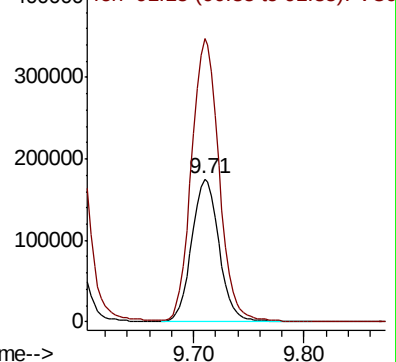
Ion Ratio Lower Upper

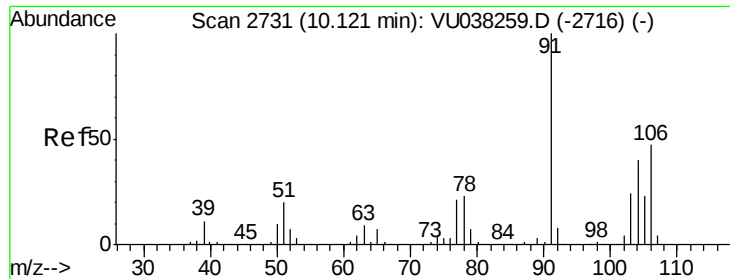
106 100

91 198.0 142.1 263.9



Abundance Ion 106.15 (105.85 to 106.85): VU038259.D (-2590) (-)

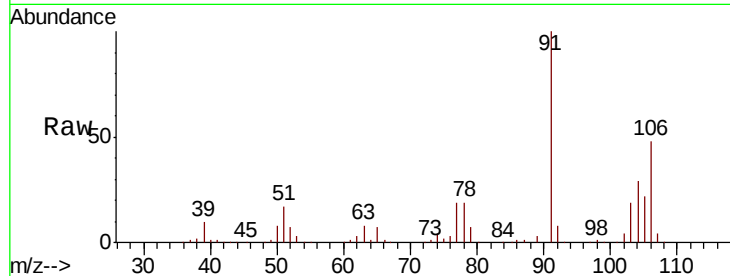




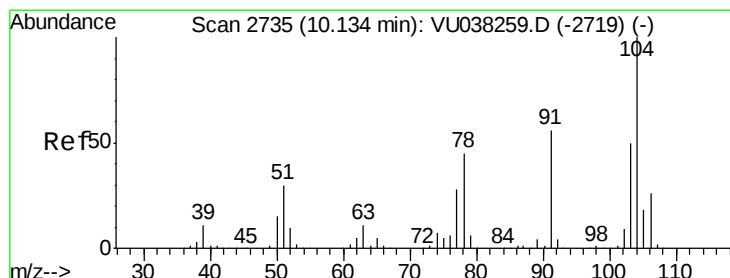
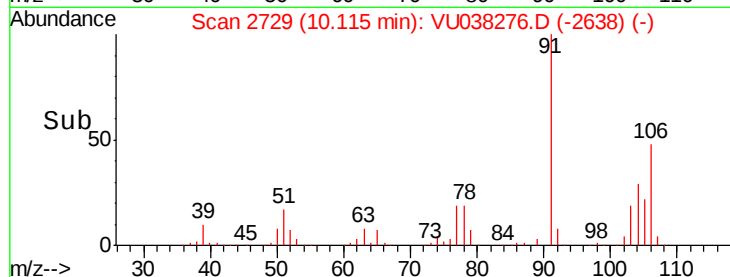
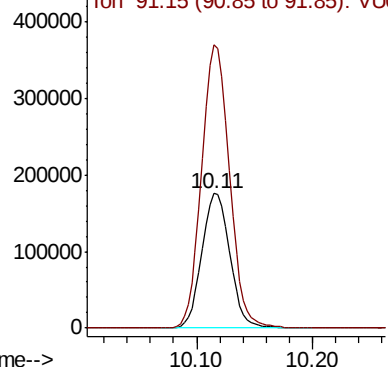
#54
o-Xylene
Concen: 4.349 ug/L
RT: 10.11 min Scan# 2729
Delta R.T. -0.01 min
Lab File: VU038276.D
Acq: 21 May 2020 20:07

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 293467
Ion Ratio Lower Upper
106 100
91 210.5 148.5 275.9

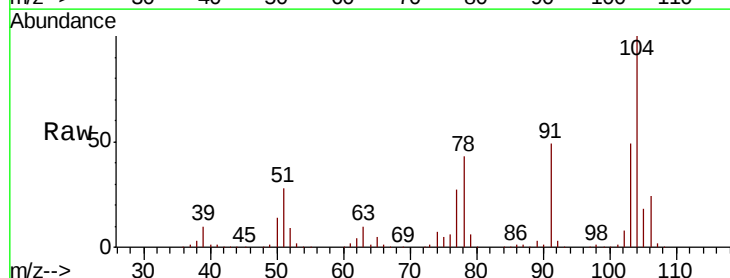


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

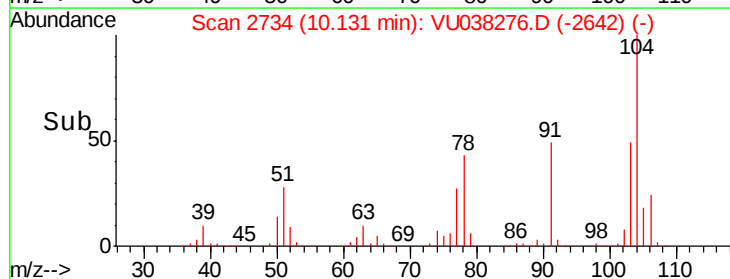
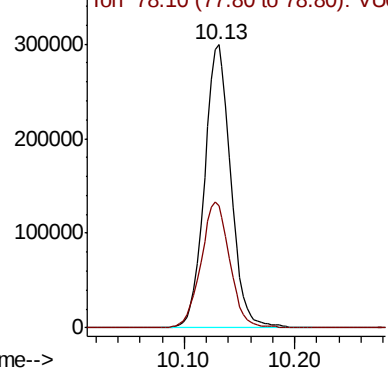


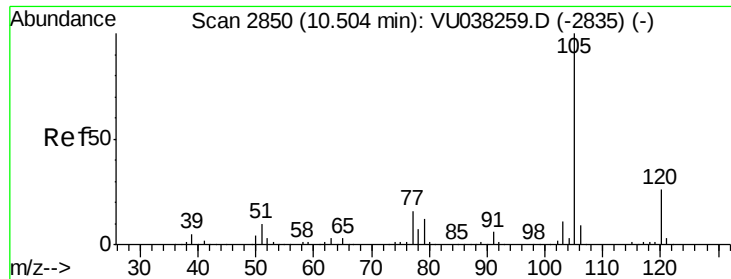
#55
Styrene
Concen: 4.356 ug/L
RT: 10.13 min Scan# 2734
Delta R.T. -0.00 min
Lab File: VU038276.D
Acq: 21 May 2020 20:07

Tgt Ion:104 Resp: 493455
Ion Ratio Lower Upper
104 100
78 43.3 32.3 59.9



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





#56

Isopropylbenzene

Concen: 4.456 ug/L

RT: 10.50 min Scan# 2848

Delta R.T. -0.01 min

Lab File: VU038276.D

Acq: 21 May 2020 20:07

Instrument :

MSVOA_U

ClientSampleId :

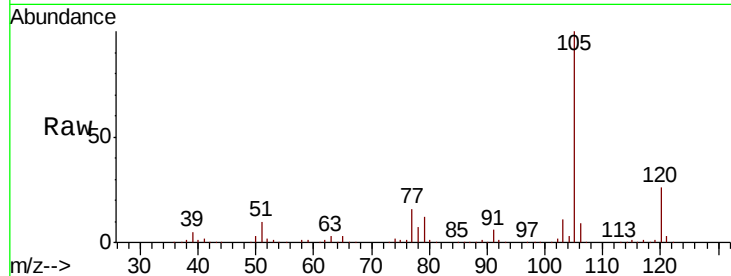
Tot Ion:105 Resp: 772285

Ion Ratio Lower Upper

105 100

120 25.8 21.0 31.6

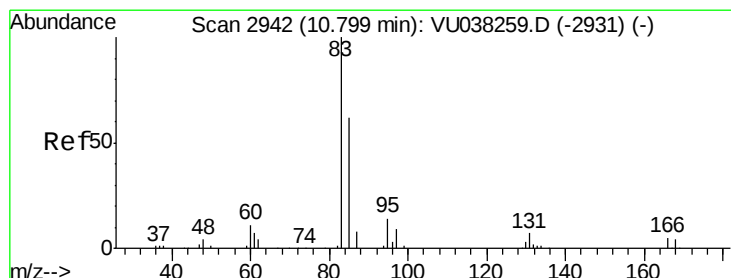
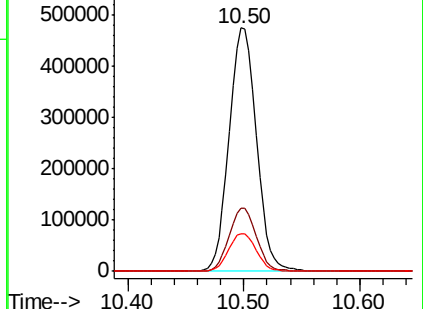
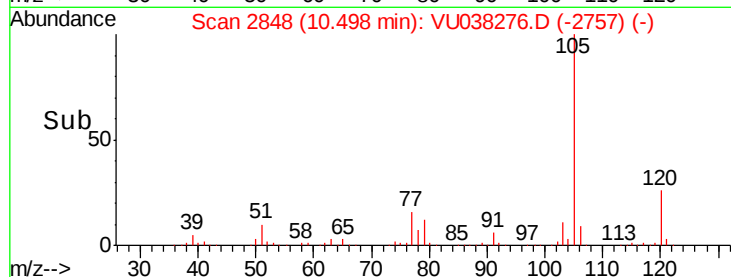
77 15.8 13.0 19.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.212 ug/L

RT: 10.80 min Scan# 2941

Delta R.T. -0.00 min

Lab File: VU038276.D

Acq: 21 May 2020 20:07

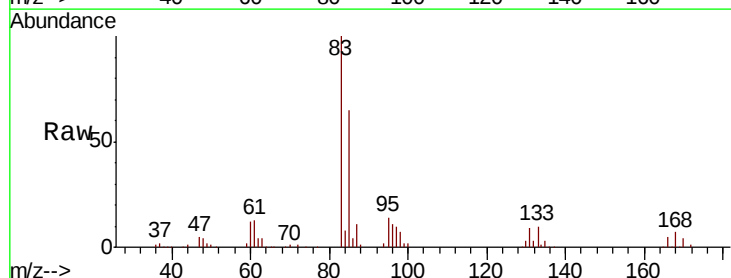
Tgt Ion: 83 Resp: 160558

Ion Ratio Lower Upper

83 100

85 65.1 47.0 87.2

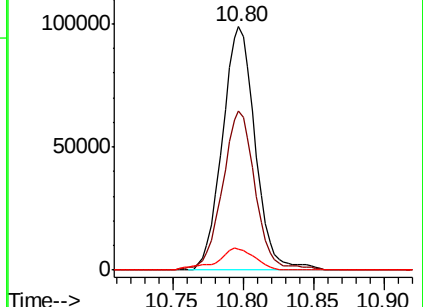
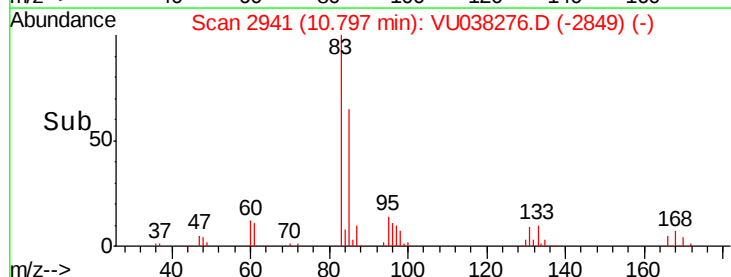
131 8.8 7.7 11.5

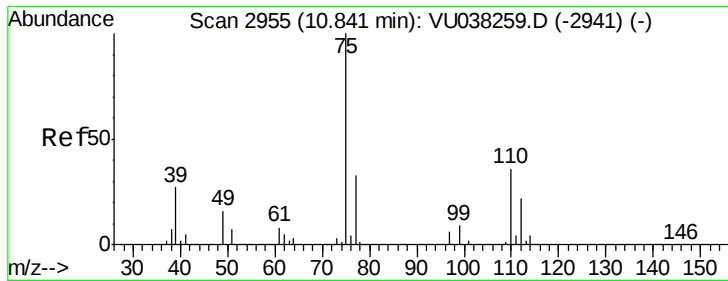


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

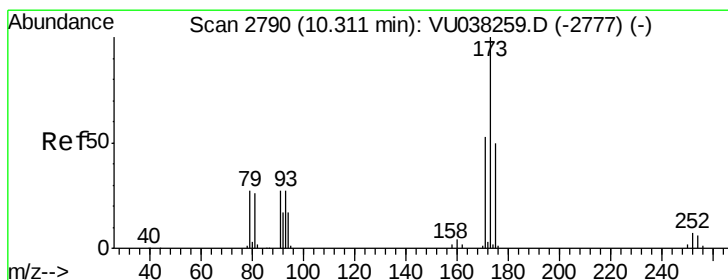
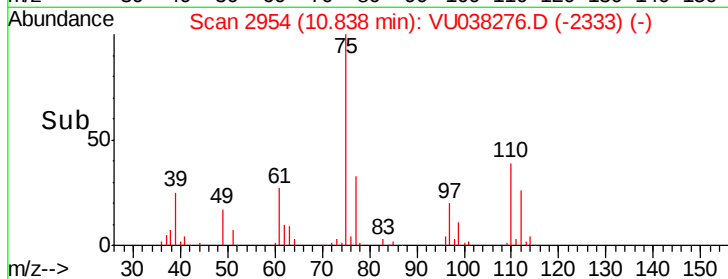
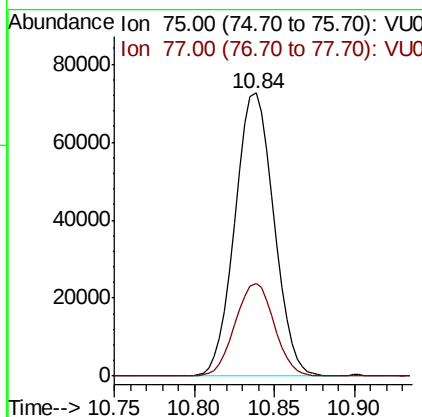
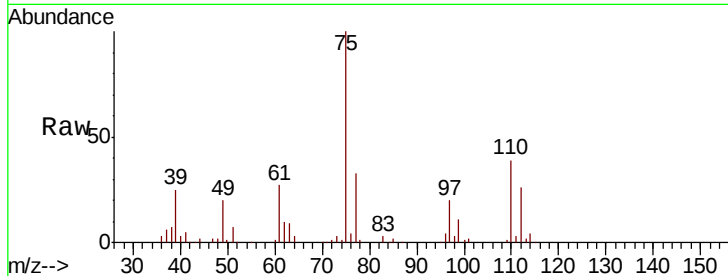




#59
 1,2,3-Trichloropropane
 Concen: 4.148 ug/L
 RT: 10.84 min Scan# 2954
 Delta R.T. -0.00 min
 Lab File: VU038276.D
 Acq: 21 May 2020 20:07

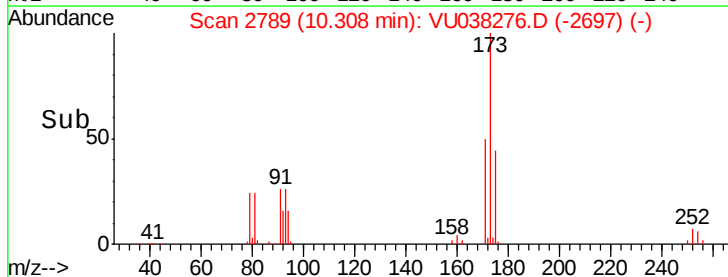
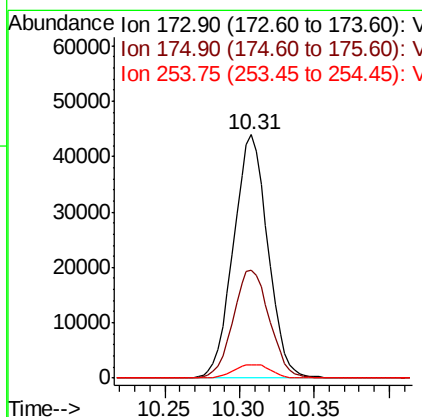
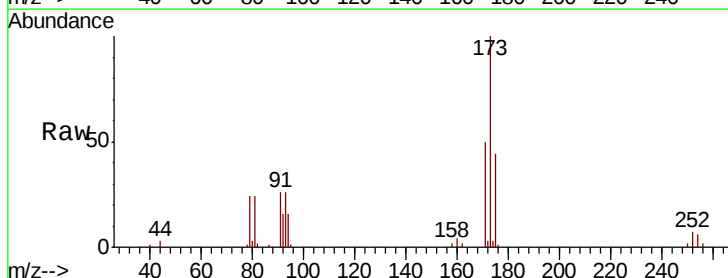
Instrument :
 MSVOA_U
 ClientSampleId :

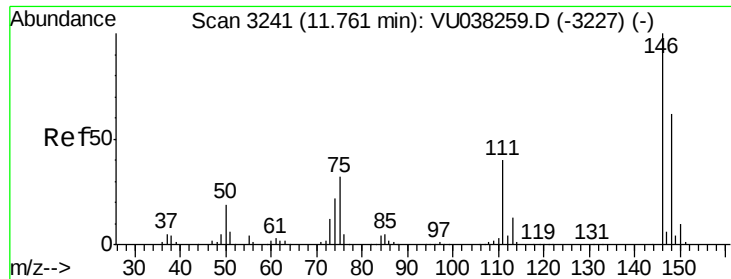
Tot Ion: 75 Resp: 120375
 Ion Ratio Lower Upper
 75 100
 77 32.8 25.4 38.0



#61
 Bromoform
 Concen: 4.179 ug/L
 RT: 10.31 min Scan# 2789
 Delta R.T. -0.00 min
 Lab File: VU038276.D
 Acq: 21 May 2020 20:07

Tgt Ion: 173 Resp: 70451
 Ion Ratio Lower Upper
 173 100
 175 46.5 39.5 59.3
 254 5.9 5.0 7.4

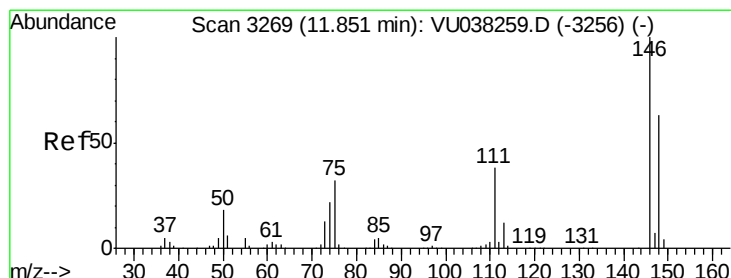
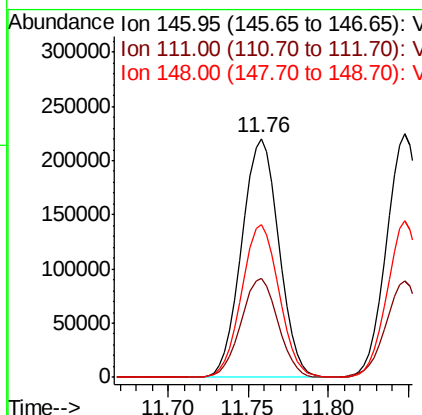
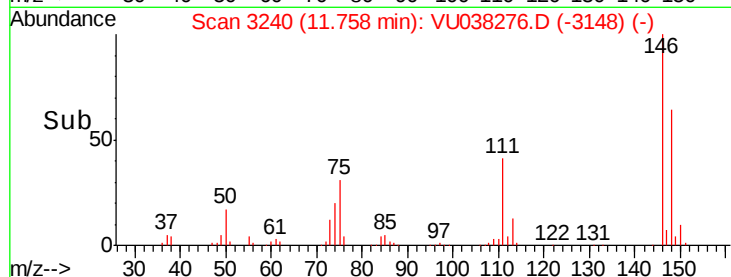
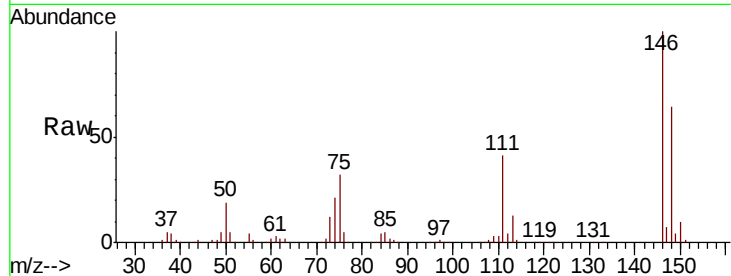




#62
 1,3-Dichlorobenzene
 Concen: 4.296 ug/L
 RT: 11.76 min Scan# 3240
 Delta R.T. -0.00 min
 Lab File: VU038276.D
 Acq: 21 May 2020 20:07

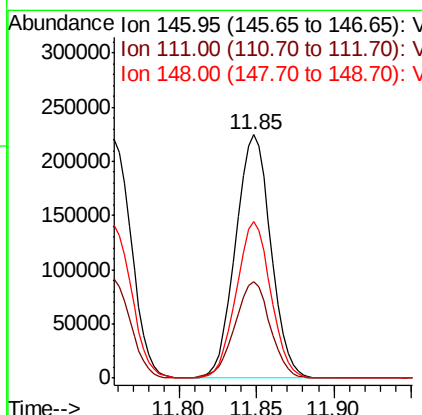
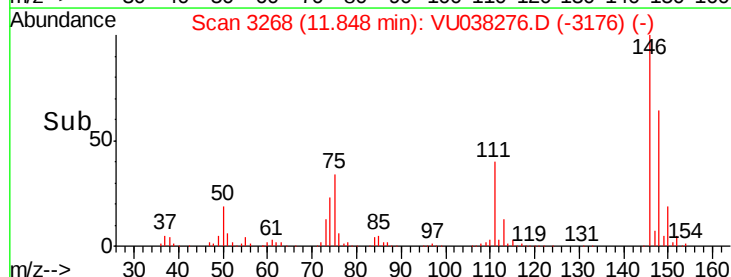
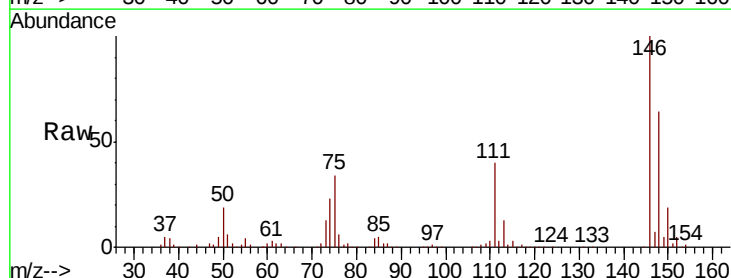
Instrument :
 MSVOA_U
 ClientSampled :

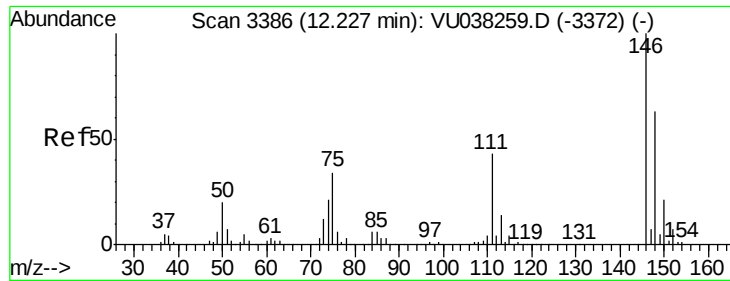
Tot Ion	Ratio	Lower	Upper
146	100		
111	41.3	28.6	53.2
148	63.8	45.2	84.0



#63
 1,4-Dichlorobenzene
 Concen: 4.326 ug/L
 RT: 11.85 min Scan# 3268
 Delta R.T. -0.00 min
 Lab File: VU038276.D
 Acq: 21 May 2020 20:07

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.7	27.2	50.6
148	64.4	43.8	81.3





#65

1,2-Dichlorobenzene

Concen: 4.360 ug/L

RT: 12.22 min Scan# 3385

Delta R.T. -0.00 min

Lab File: VU038276.D

Acq: 21 May 2020 20:07

Instrument :

MSVOA_U

ClientSampled :

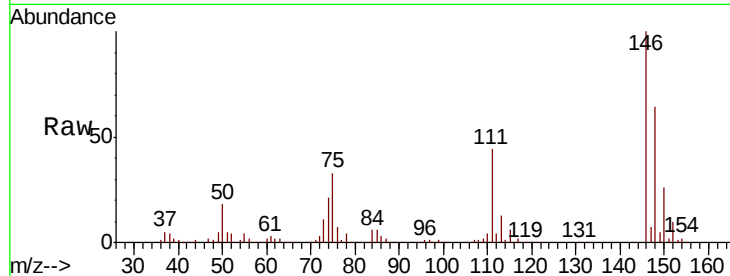
Tot Ion:146 Resp: 340389

Ion Ratio Lower Upper

146 100

111 43.7 35.3 52.9

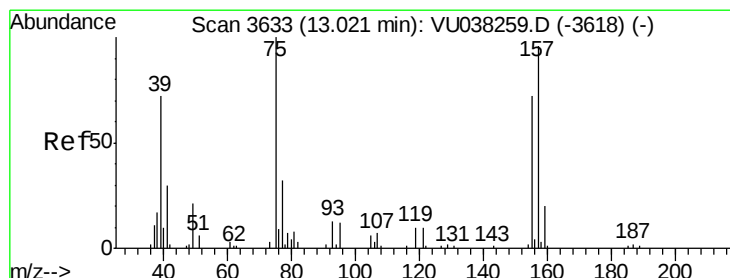
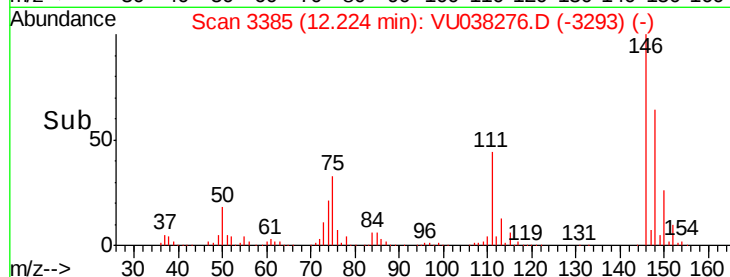
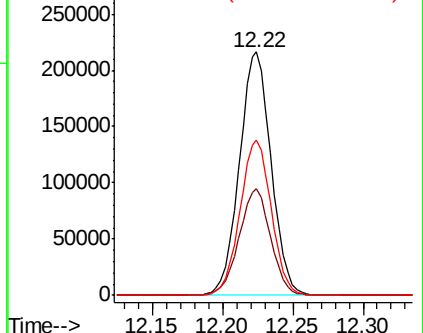
148 63.6 51.0 76.4



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 4.023 ug/L

RT: 13.02 min Scan# 3631

Delta R.T. -0.01 min

Lab File: VU038276.D

Acq: 21 May 2020 20:07

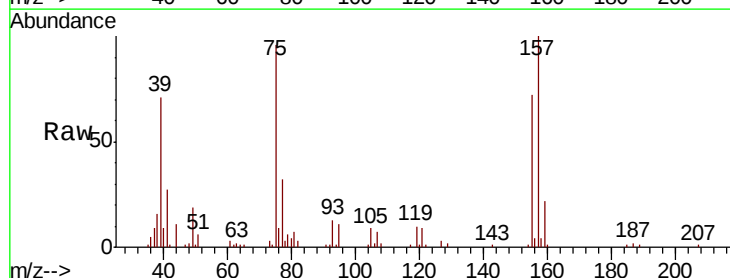
Tgt Ion: 75 Resp: 25669

Ion Ratio Lower Upper

75 100

155 74.3 58.2 87.2

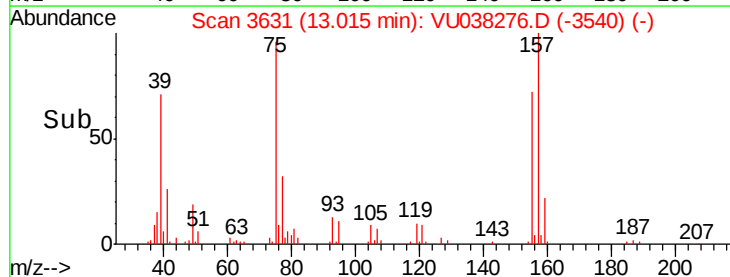
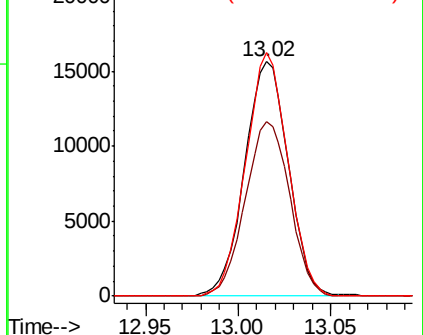
157 103.8 72.9 109.3

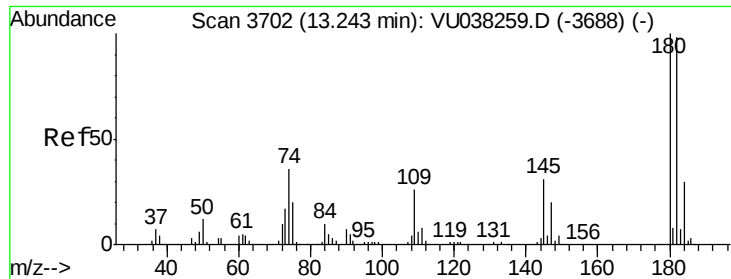


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

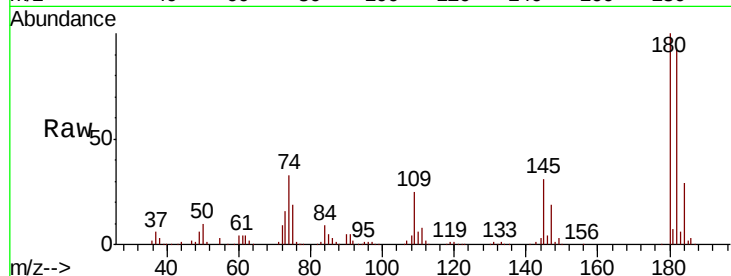




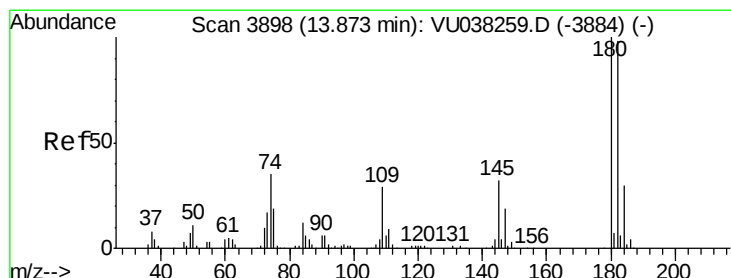
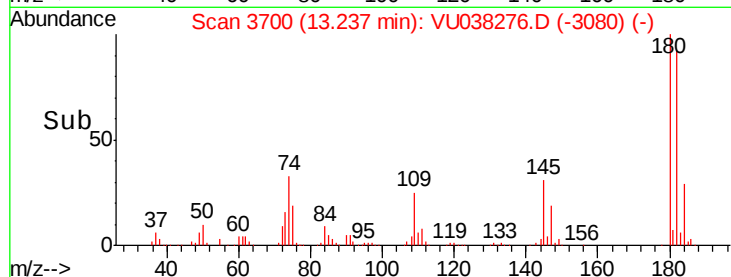
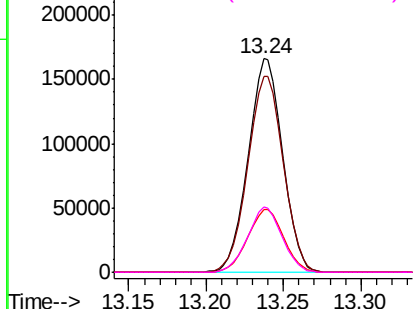
#67
 1,3,5-Trichlorobenzene
 Concen: 4.378 ug/L
 RT: 13.24 min Scan# 3700
 Delta R.T. -0.01 min
 Lab File: VU038276.D
 Acq: 21 May 2020 20:07

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180	Resp:	257776
Ion	Ratio	Lower Upper
180	100	
182	94.5	77.4 116.2
184	30.6	24.2 36.2
145	30.5	24.0 36.0

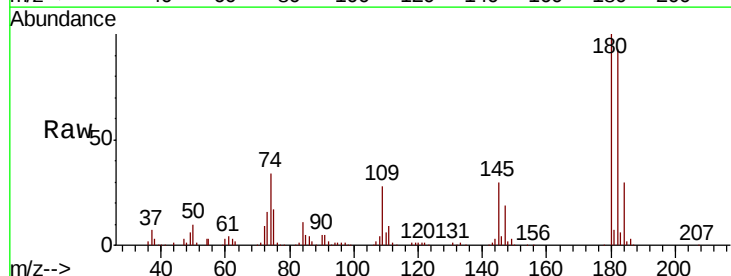


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

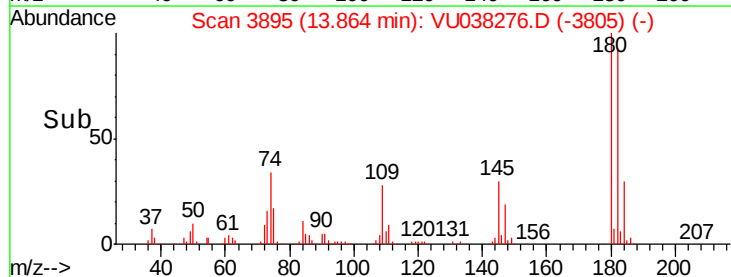
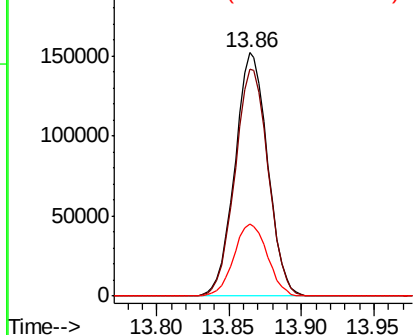


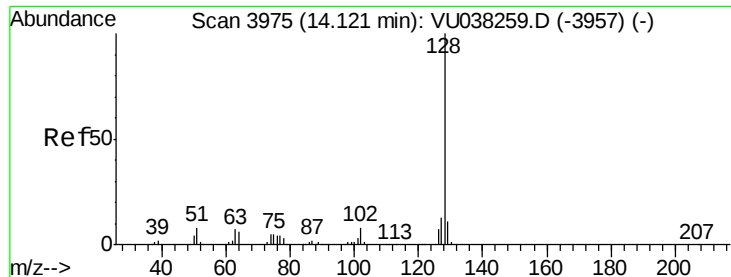
#68
 1,2,4-trichlorobenzene
 Concen: 4.458 ug/L
 RT: 13.86 min Scan# 3895
 Delta R.T. -0.01 min
 Lab File: VU038276.D
 Acq: 21 May 2020 20:07

Tgt Ion:180	Resp:	238049
Ion	Ratio	Lower Upper
180	100	
182	94.7	75.0 112.6
145	30.3	24.8 37.2



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: 4.579 ug/L

RT: 14.11 min Scan# 3973

Delta R.T. -0.01 min

Lab File: VU038276.D

Acq: 21 May 2020 20:07

Instrument :

MSVOA_U

ClientSampleId :

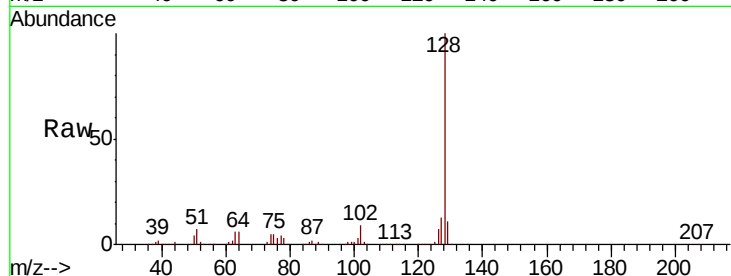
Tot Ion:128 Resp: 514819

Ion Ratio Lower Upper

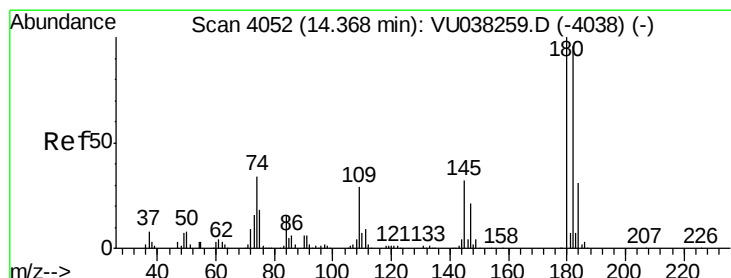
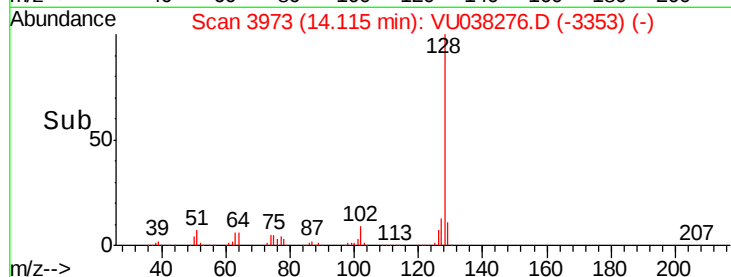
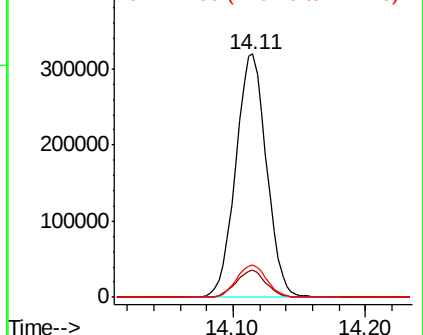
128 100

129 10.9 8.7 13.1

127 13.1 10.2 15.4



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.407 ug/L

RT: 14.36 min Scan# 4049

Delta R.T. -0.01 min

Lab File: VU038276.D

Acq: 21 May 2020 20:07

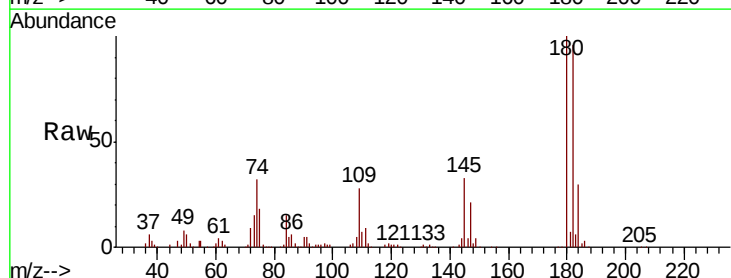
Tgt Ion:180 Resp: 218746

Ion Ratio Lower Upper

180 100

182 94.8 76.3 114.5

145 33.3 26.1 39.1



Abundance Ion 179.90 (179.60 to 180.60): V
Ion 181.90 (181.60 to 182.60): V
Ion 144.95 (144.65 to 145.65): V

