

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081718\
 Data File : VU026184.D
 Acq On : 17 Aug 2018 17:23
 Operator : MD/SY
 Sample : VSTD02044
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Aug 18 00:01:53 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR081718WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Aug 17 23:59:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	142893	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	144392	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	79621	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	163984	16.31	ug/L	0.00
7) Chloroethane-d5	1.68	69	133073	16.40	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	335609	18.01	ug/L	0.00
20) 2-Butanone-d5	4.19	46	486039	192.35	ug/L	0.00
24) Chloroform-d	4.65	84	372387	20.35	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	199565	21.13	ug/L	0.00
32) Benzene-d6	5.34	84	738103	18.24	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.34	67	229064	18.07	ug/L	0.00
41) Toluene-d8	7.57	98	734245	19.30	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	100955	23.48	ug/L	0.00
46) 2-Hexanone-d5	8.32	63	462575	212.53	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.44	84	193284	20.01	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	292874	17.83	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	258707	22.211 ug/L	99
3) Chloromethane	1.33	50	242805	20.455 ug/L	100
5) Vinyl chloride	1.40	62	238045	20.191 ug/L	99
6) Bromomethane	1.62	94	134640	21.865 ug/L	97
8) Chloroethane	1.70	64	131713	15.913 ug/L	95
9) Trichlorofluoromethane	1.89	101	336458	21.526 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	184171	19.861 ug/L	98
12) 1,1-Dichloroethene	2.28	96	167323	19.173 ug/L	95
13) Acetone	2.32	43	275588	184.179 ug/L	100
14) Carbon disulfide	2.48	76	583596	19.853 ug/L	100
15) Methyl Acetate	2.62	43	76106	16.716 ug/L	95
16) Methylene chloride	2.70	84	179800	18.096 ug/L	97
17) Methyl tert-butyl Ether	3.00	73	422780	20.036 ug/L	99
18) trans-1,2-Dichloroethene	2.98	96	182225	19.337 ug/L	96
19) 1,1-Dichloroethane	3.45	63	340936	18.951 ug/L	98
21) 2-Butanone	4.28	43	540614	207.458 ug/L	100
22) cis-1,2-Dichloroethene	4.23	96	234069	21.969 ug/L	97
23) Bromochloromethane	4.55	128	104266	22.009 ug/L	96
25) Chloroform	4.68	83	417127	22.379 ug/L	99
27) 1,2-Dichloroethane	5.41	62	258439	23.023 ug/L	99
29) 1,1,1-Trichloroethane	4.92	97	367230	22.803 ug/L	99
30) Cyclohexane	4.99	56	350302	21.106 ug/L	98
31) Carbon tetrachloride	5.14	117	346140	24.530 ug/L	100
33) Benzene	5.39	78	862877	20.255 ug/L	100
34) Trichloroethene	6.19	95	230845	20.599 ug/L	99
35) Methylcyclohexane	6.42	83	382383	22.222 ug/L	97
37) 1,2-Dichloropropane	6.44	63	227122	20.293 ug/L	# 94
38) Bromodichloromethane	6.76	83	289565	22.203 ug/L	100
39) cis-1,3-Dichloropropene	7.27	75	338251	24.262 ug/L	94
40) 4-Methyl-2-pentanone	7.47	43	1332502	217.434 ug/L	98

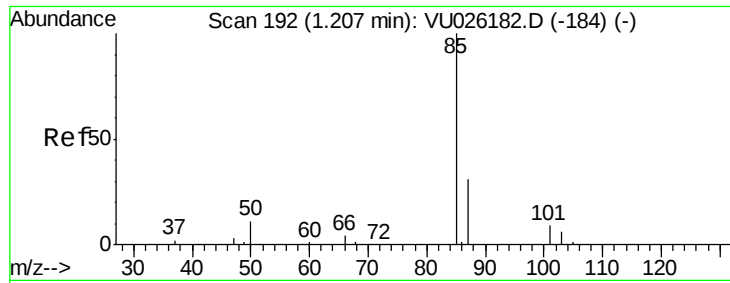
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081718\
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 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Aug 17 23:59:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.64	91	955176	21.795	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	285867	25.273	ug/L	98
45) 1,1,2-Trichloroethane	8.07	97	156034	20.825	ug/L	97
47) Tetrachloroethene	8.23	164	200730	21.596	ug/L	99
48) 2-Hexanone	8.37	43	958758	217.549	ug/L	99
49) Dibromochloromethane	8.48	129	215386	24.540	ug/L	100
50) 1,2-Dibromoethane	8.59	107	152553	22.038	ug/L	98
51) Chlorobenzene	9.12	112	615724	21.339	ug/L	100
52) Ethylbenzene	9.25	91	1071102	23.605	ug/L	99
53) m,p-xylene	9.38	106	418472	24.213	ug/L	100
54) o-xylene	9.78	106	400962	23.756	ug/L	98
55) Styrene	9.80	104	697650	24.953	ug/L	100
56) Isopropylbenzene	10.17	105	1080690	24.533	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.46	83	197300	20.910	ug/L	100
59) 1,2,3-Trichloropropane	10.50	75	141691	22.228	ug/L	93
61) Bromoform	9.96	173	125011	21.331	ug/L	99
62) 1,3-Dichlorobenzene	11.42	146	504737	20.083	ug/L	99
63) 1,4-Dichlorobenzene	11.51	146	519647	20.519	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	489832	19.446	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.66	75	33087	21.028	ug/L	97
67) 1,3,5-Trichlorobenzene	12.89	180	409269	20.917	ug/L	100
68) 1,2,4-trichlorobenzene	13.51	180	335417	24.709	ug/L	98
69) Naphthalene	13.74	128	569403	27.947	ug/L	99
70) 1,2,3-Trichlorobenzene	13.99	180	311384	23.499	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 22.211 ug/L

RT: 1.20 min Scan# 191

Delta R.T. -0.00 min

Lab File: VU026184.D

Acq: 17 Aug 2018 17:23

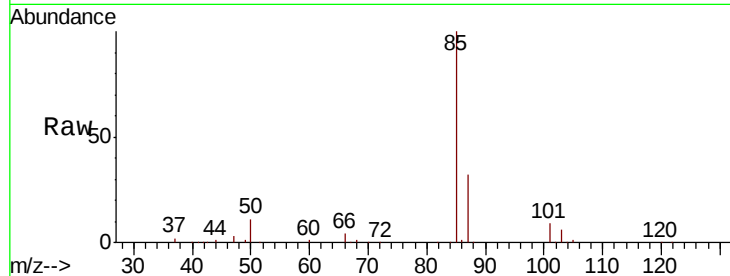
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 85 Resp: 258707

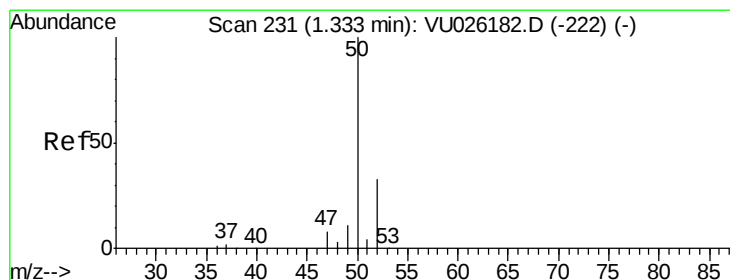
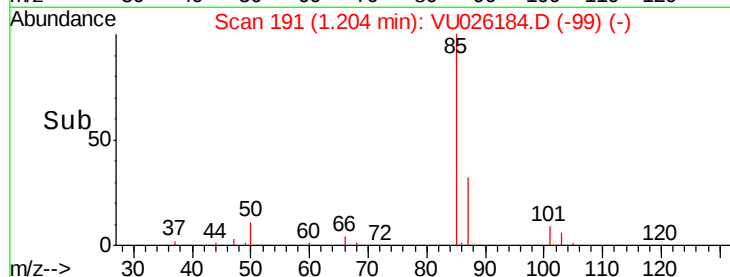
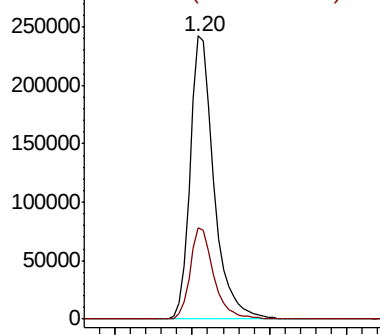
Ion Ratio Lower Upper

85 100

87 32.0 25.3 37.9



Abundance Ion 85.00 (84.70 to 85.70): VU0
Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 20.455 ug/L

RT: 1.33 min Scan# 231

Delta R.T. -0.00 min

Lab File: VU026184.D

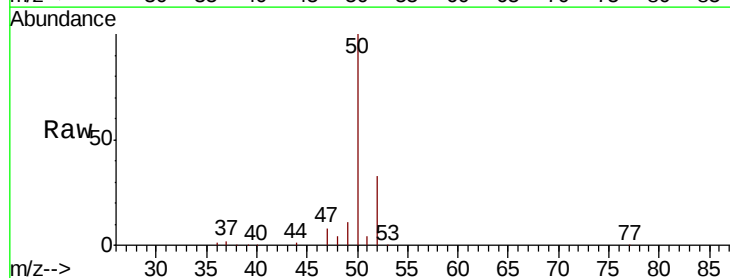
Acq: 17 Aug 2018 17:23

Tgt Ion: 50 Resp: 242805

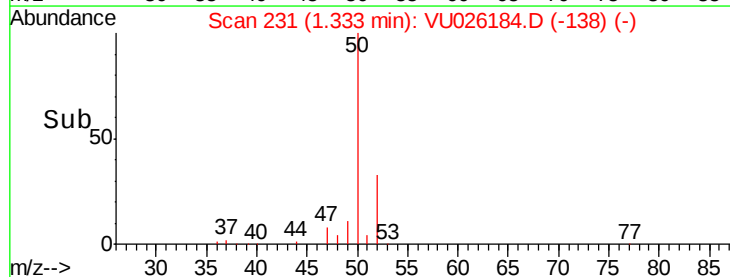
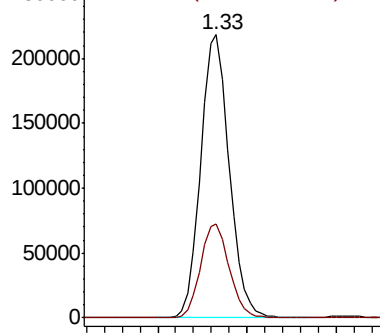
Ion Ratio Lower Upper

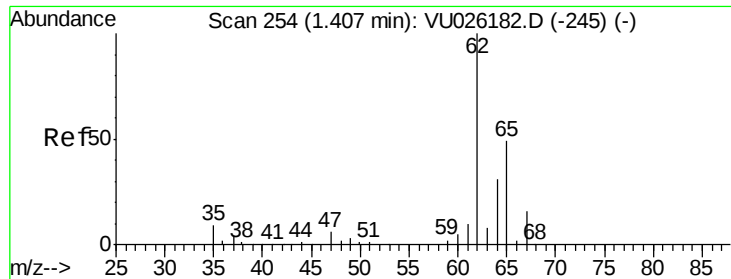
50 100

52 33.1 23.1 42.9



Abundance Ion 50.05 (49.75 to 50.75): VU0
Ion 52.05 (51.75 to 52.75): VU0





#5

Vinyl chloride

Concen: 20.191 ug/L

RT: 1.40 min Scan# 253

Delta R.T. -0.00 min

Lab File: VU026184.D

Acq: 17 Aug 2018 17:23

Instrument :

MSVOA_U

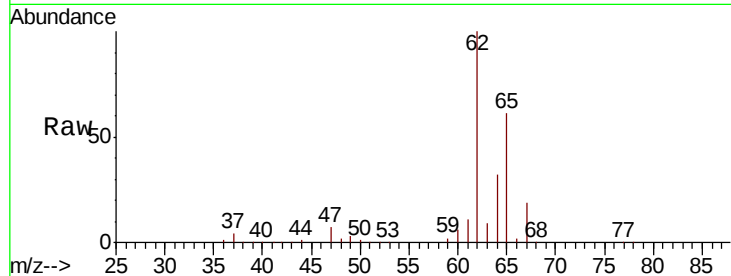
ClientSampled :

Tot Ion: 62 Resp: 238045

Ion Ratio Lower Upper

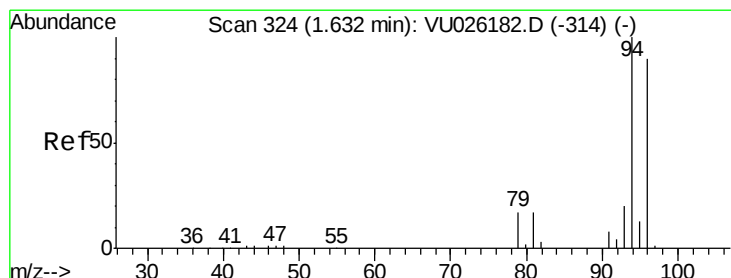
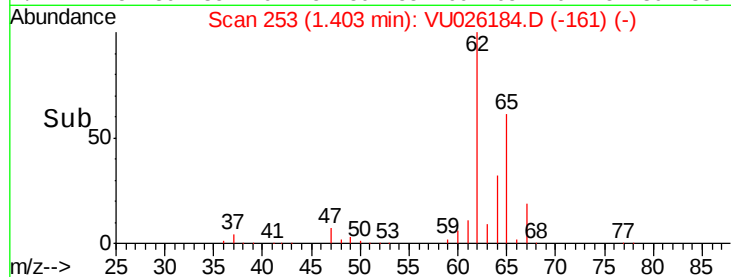
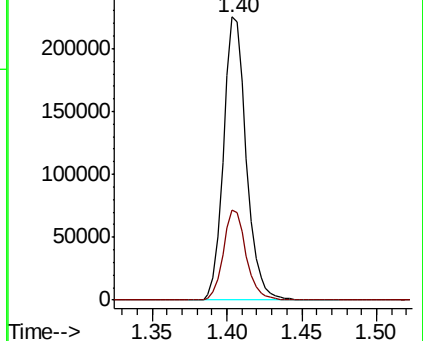
62 100

64 32.0 22.0 40.8



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 21.865 ug/L

RT: 1.62 min Scan# 321

Delta R.T. -0.01 min

Lab File: VU026184.D

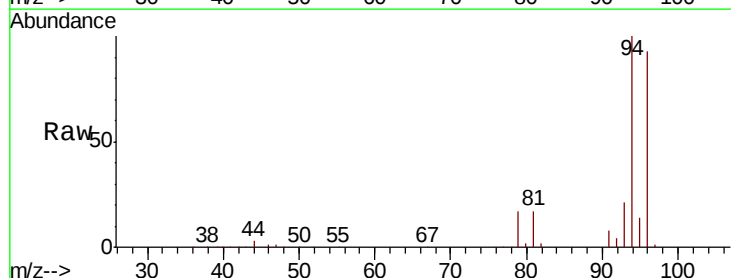
Acq: 17 Aug 2018 17:23

Tgt Ion: 94 Resp: 134640

Ion Ratio Lower Upper

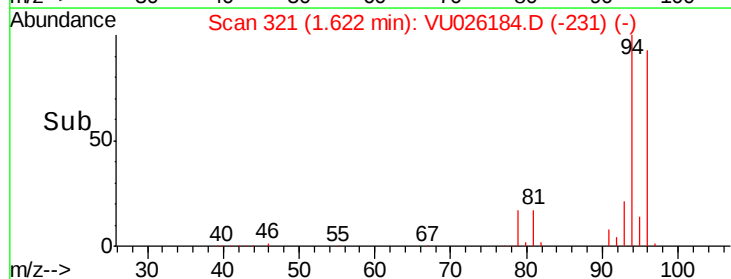
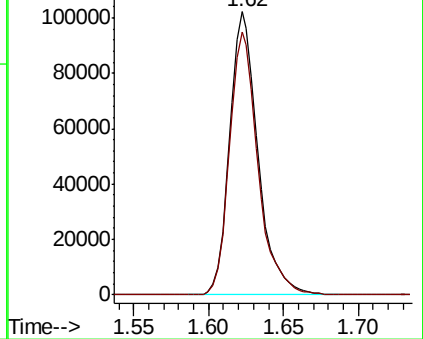
94 100

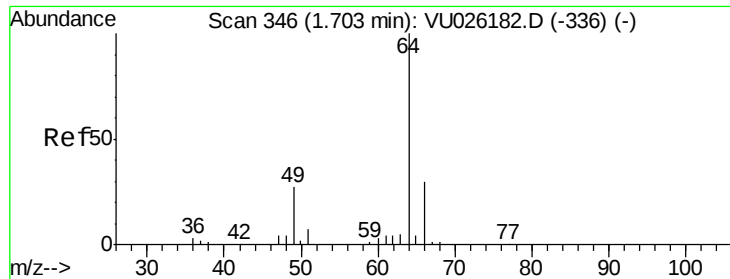
96 93.0 63.1 117.1



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 15.913 ug/L

RT: 1.70 min Scan# 344

Delta R.T. -0.01 min

Lab File: VU026184.D

Acq: 17 Aug 2018 17:23

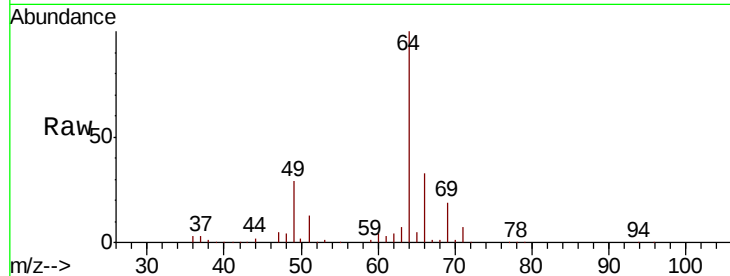
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 64 Resp: 131713

Ion Ratio Lower Upper

64 100

66 32.6 21.1 39.1



Abundance Ion 64.10 (63.80 to 64.80): VU026182.D (-336) (-)

Ion 66.05 (65.75 to 66.75): VU026184.D (-253) (-)

100000

80000

60000

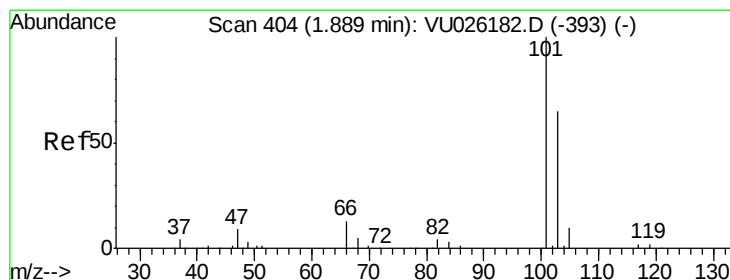
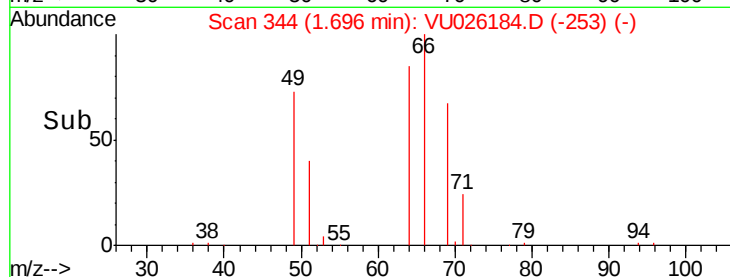
40000

20000

0

1.65 1.70 1.75 1.80

Time-->



#9

Trichlorofluoromethane

Concen: 21.526 ug/L

RT: 1.89 min Scan# 403

Delta R.T. -0.00 min

Lab File: VU026184.D

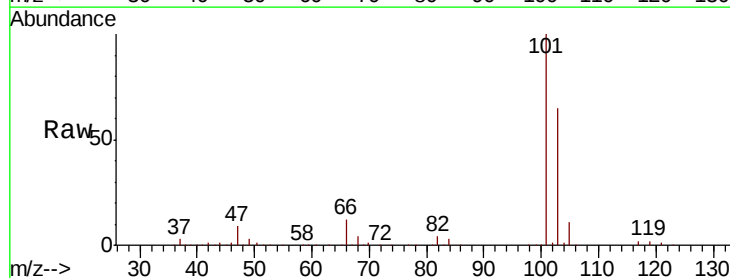
Acq: 17 Aug 2018 17:23

Tgt Ion:101 Resp: 336458

Ion Ratio Lower Upper

101 100

103 64.6 52.4 78.6



Abundance Ion 101.00 (100.70 to 101.70): VU026182.D (-393) (-)

Ion 103.00 (102.70 to 103.70): VU026184.D (-311) (-)

250000

200000

150000

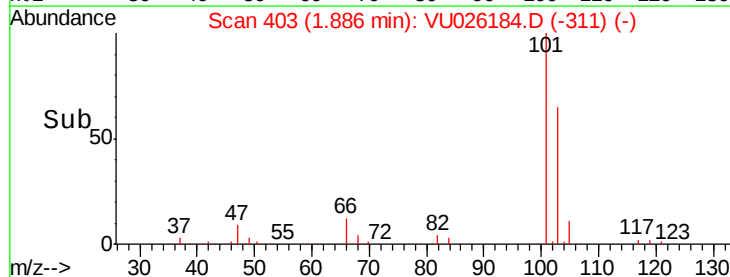
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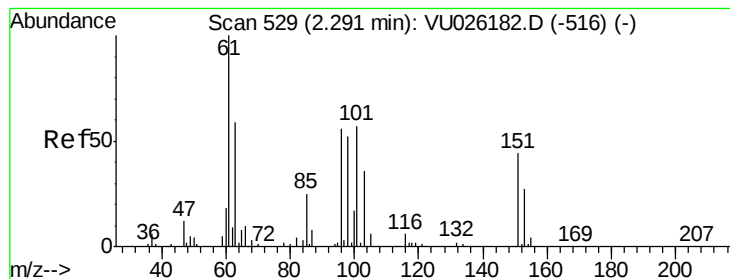
50000

0

1.80 1.90 2.00

Time-->





#10

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

Concen: 19.861 ug/L

RT: 2.29 min Scan# 528

Delta R.T. -0.00 min

Lab File: VU026184.D

Acq: 17 Aug 2018 17:23

Instrument :

MSVOA_U

ClientSampleId :

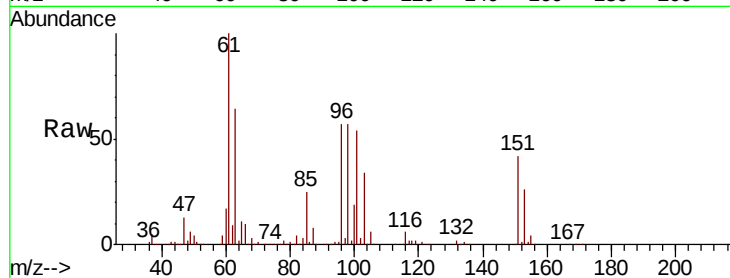
Tot Ion:101 Resp: 184171

Ion Ratio Lower Upper

101 100

85 44.4 36.6 54.8

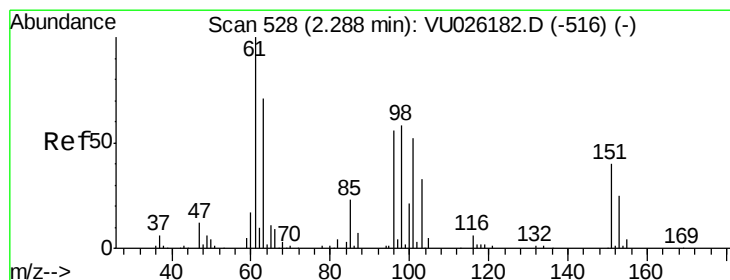
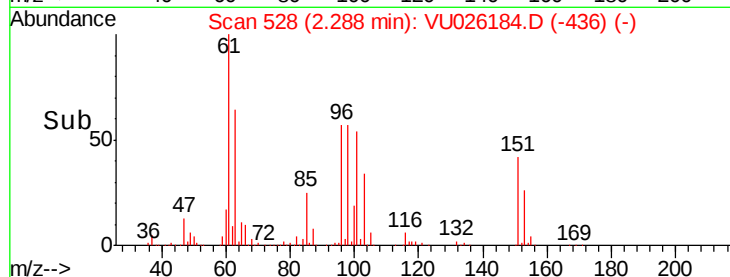
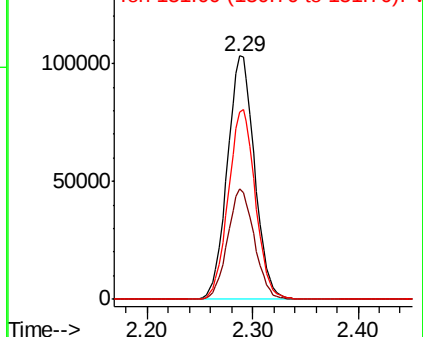
151 77.3 63.4 95.2



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: 19.173 ug/L

RT: 2.28 min Scan# 527

Delta R.T. -0.00 min

Lab File: VU026184.D

Acq: 17 Aug 2018 17:23

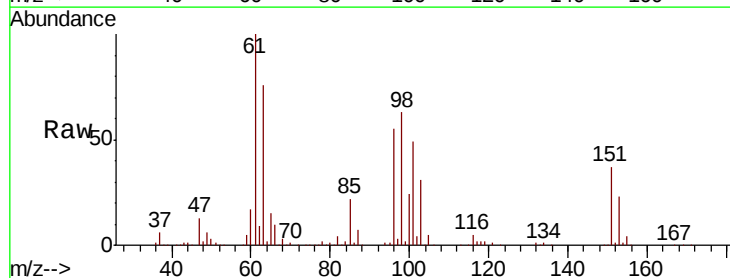
Tgt Ion: 96 Resp: 167323

Ion Ratio Lower Upper

96 100

61 181.9 125.3 232.7

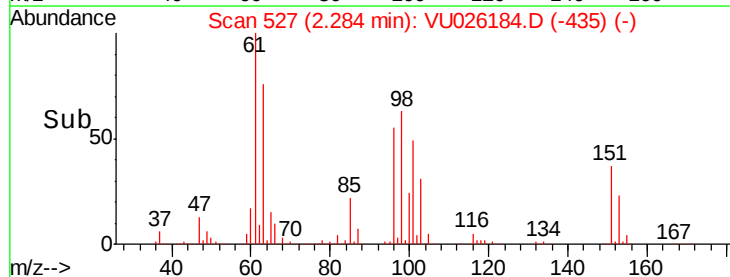
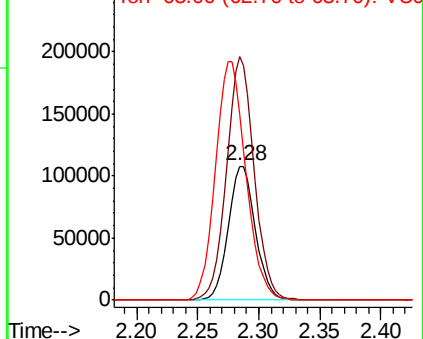
63 139.1 90.9 168.9

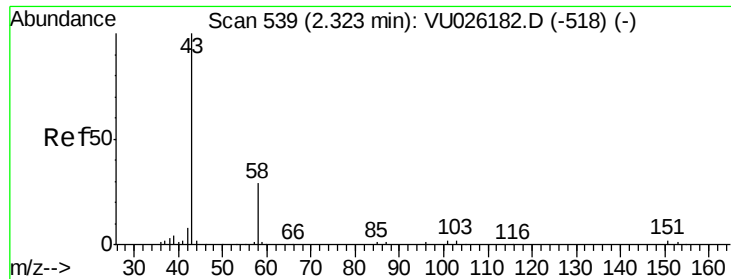


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 184.179 ug/L

RT: 2.32 min Scan# 539

Delta R.T. -0.00 min

Lab File: VU026184.D

Acq: 17 Aug 2018 17:23

Instrument :

MSVOA_U

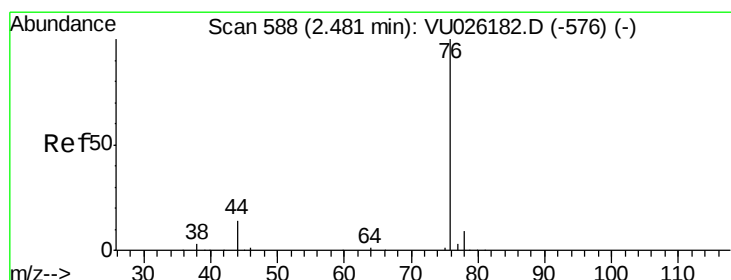
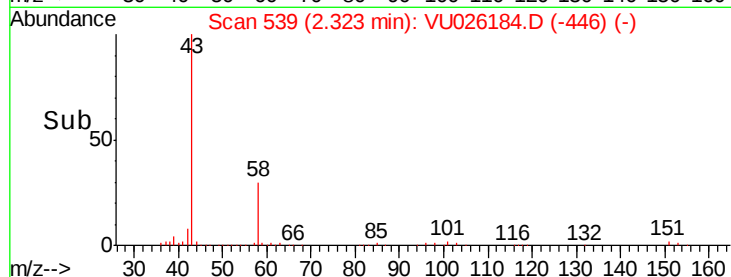
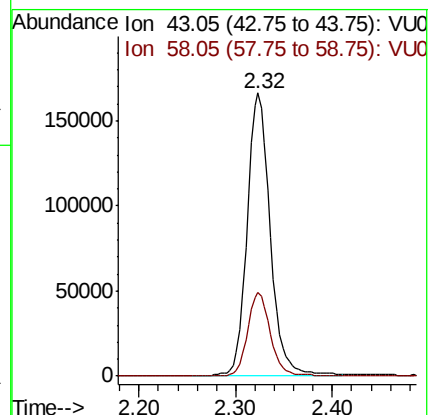
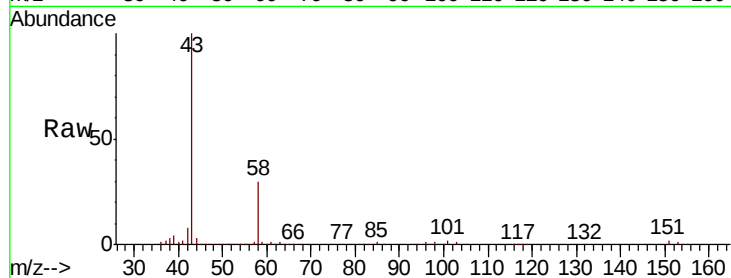
ClientSampled :

Tot Ion: 43 Resp: 275588

Ion Ratio Lower Upper

43 100

58 29.3 0.0 59.0



#14

Carbon disulfide

Concen: 19.853 ug/L

RT: 2.48 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU026184.D

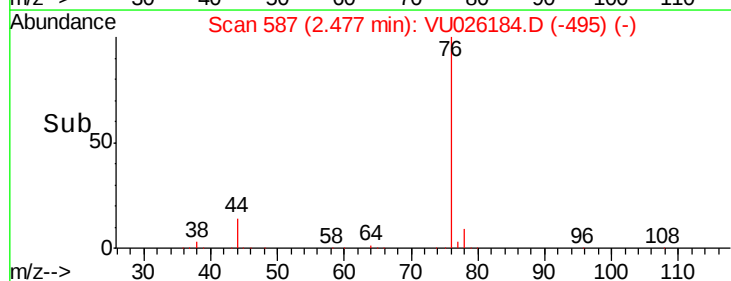
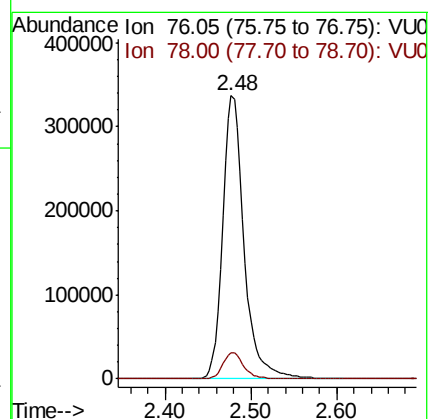
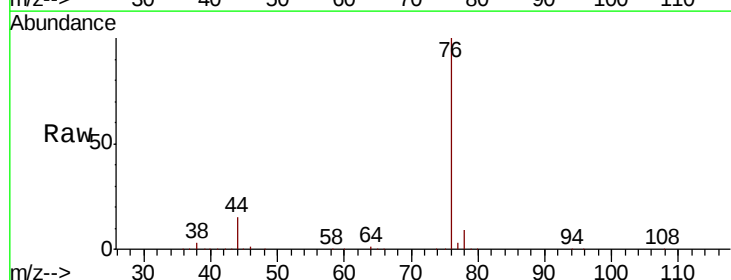
Acq: 17 Aug 2018 17:23

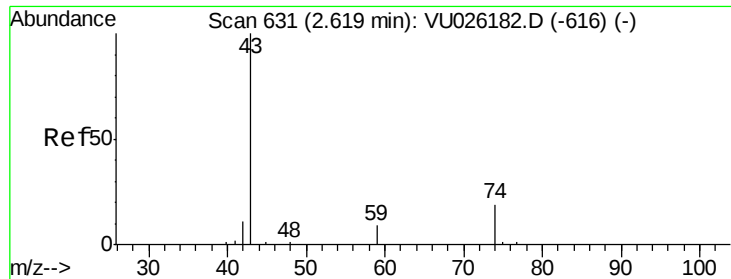
Tgt Ion: 76 Resp: 583596

Ion Ratio Lower Upper

76 100

78 9.2 7.4 11.0

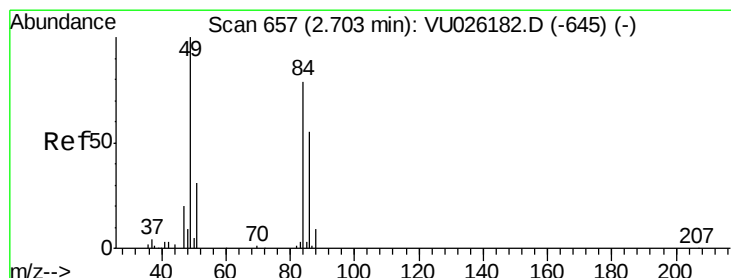
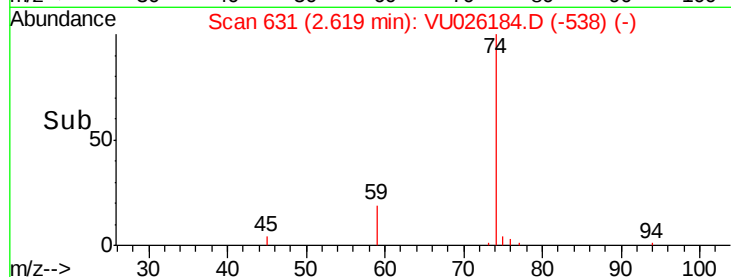
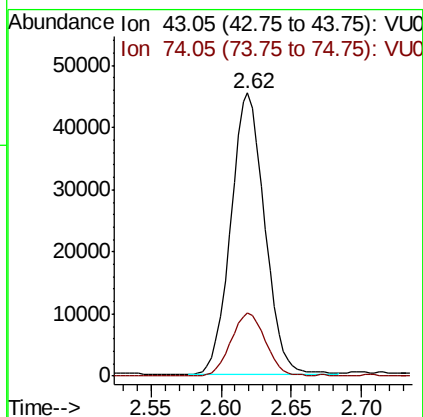
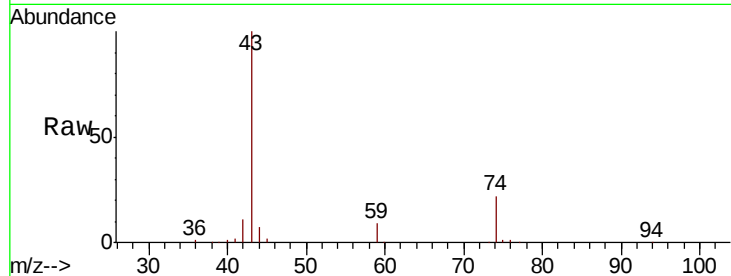




#15
Methvl Acetate
Concen: 16.716 ug/L
RT: 2.62 min Scan# 631
Delta R.T. -0.00 min
Lab File: VU026184.D
Acq: 17 Aug 2018 17:23

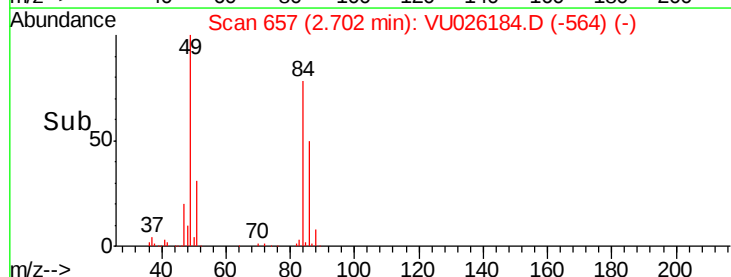
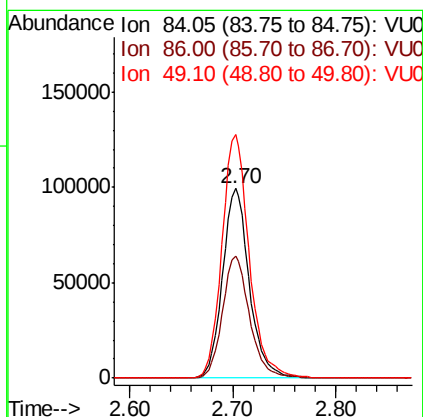
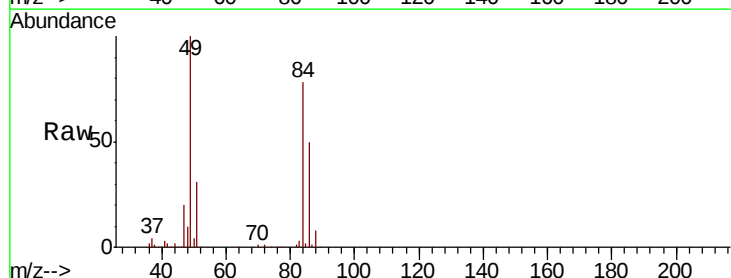
Instrument :
MSVOA_U
ClientSampled :

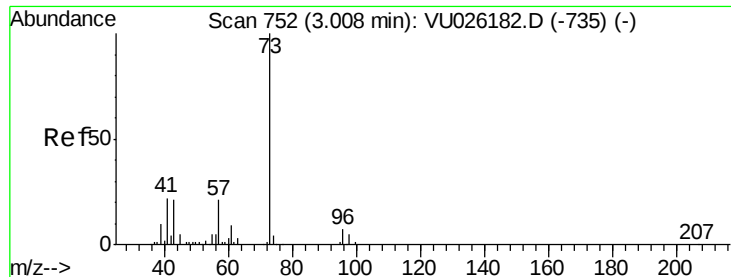
Tot Ion: 43 Resp: 76106
Ion Ratio Lower Upper
43 100
74 23.0 16.6 24.8



#16
Methylene chloride
Concen: 18.096 ug/L
RT: 2.70 min Scan# 657
Delta R.T. -0.00 min
Lab File: VU026184.D
Acq: 17 Aug 2018 17:23

Tgt Ion: 84 Resp: 179800
Ion Ratio Lower Upper
84 100
86 64.6 48.6 90.2
49 128.7 89.0 165.4

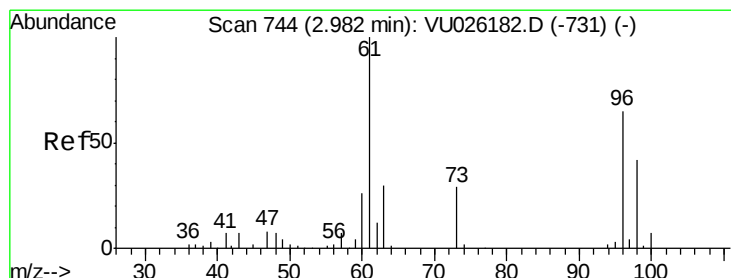
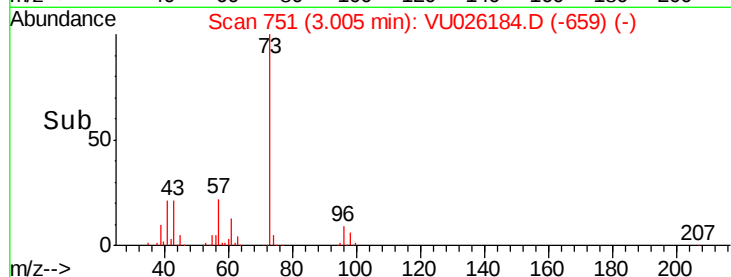
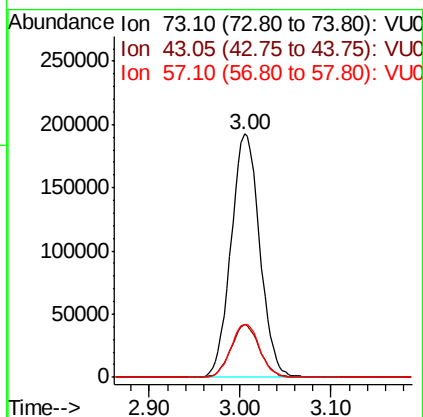
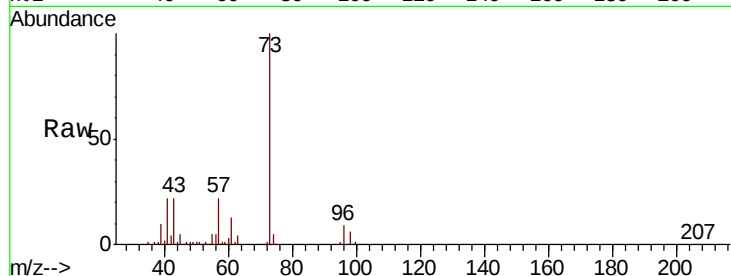




#17
Methvl tert-butvl Ether
Concen: 20.036 ug/L
RT: 3.00 min Scan# 751
Delta R.T. -0.00 min
Lab File: VU026184.D
Acq: 17 Aug 2018 17:23

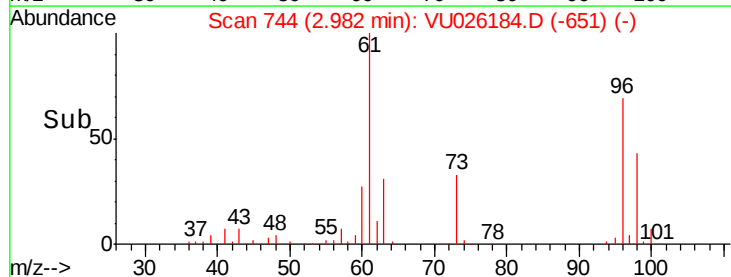
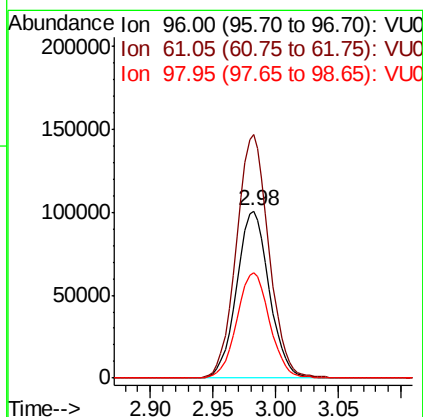
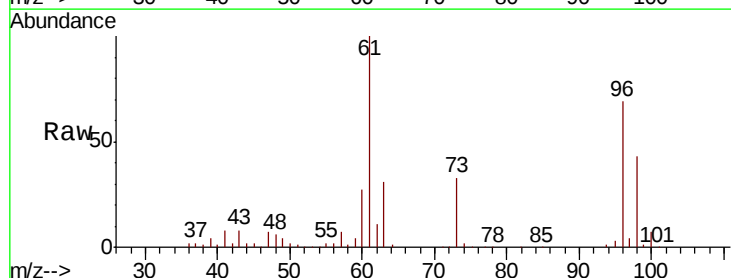
Instrument :
MSVOA_U
ClientSampleId :

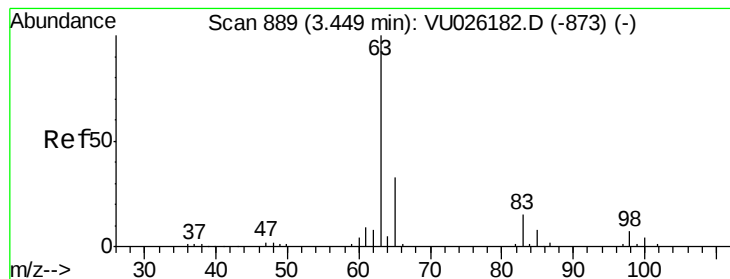
Tot Ion: 73 Resp: 422780
Ion Ratio Lower Upper
73 100
43 21.4 18.2 27.2
57 21.9 17.5 26.3



#18
trans-1,2-Dichloroethene
Concen: 19.337 ug/L
RT: 2.98 min Scan# 744
Delta R.T. -0.00 min
Lab File: VU026184.D
Acq: 17 Aug 2018 17:23

Tgt Ion: 96 Resp: 182225
Ion Ratio Lower Upper
96 100
61 145.6 107.0 198.6
98 63.1 44.4 82.5





#19

1,1-Dichloroethane

Concen: 18.951 ug/L

RT: 3.45 min Scan# 888

Delta R.T. -0.00 min

Lab File: VU026184.D

Acq: 17 Aug 2018 17:23

Instrument :
MSVOA_U
ClientSampleId :

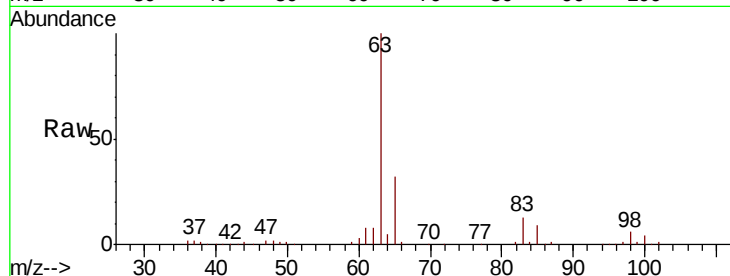
Tot Ion: 63 Resp: 340936

Ion Ratio Lower Upper

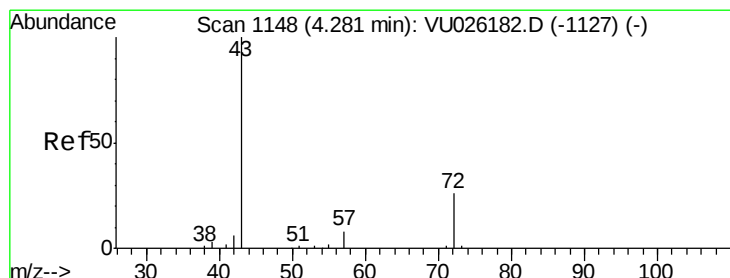
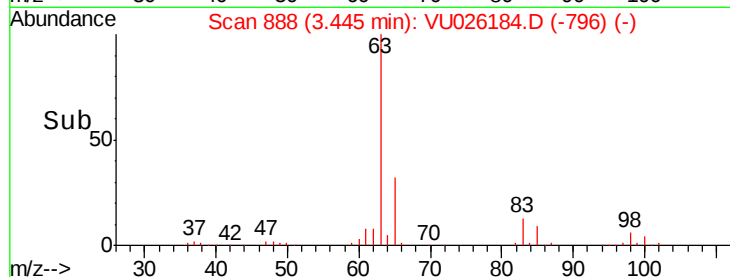
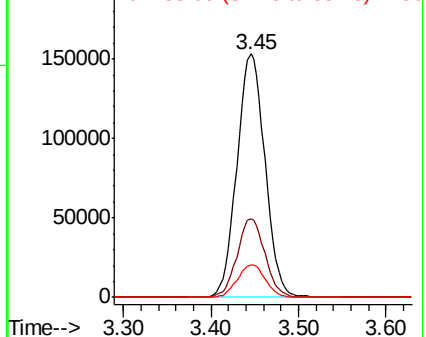
63 100

65 32.2 23.2 43.0

83 13.5 10.1 18.9



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: 207.458 ug/L

RT: 4.28 min Scan# 1147

Delta R.T. -0.00 min

Lab File: VU026184.D

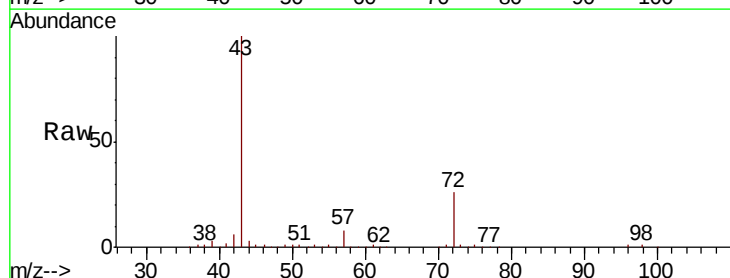
Acq: 17 Aug 2018 17:23

Tgt Ion: 43 Resp: 540614

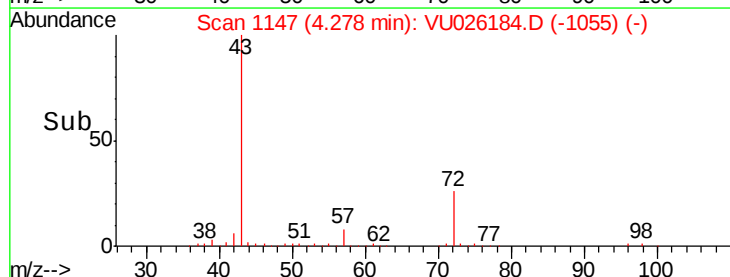
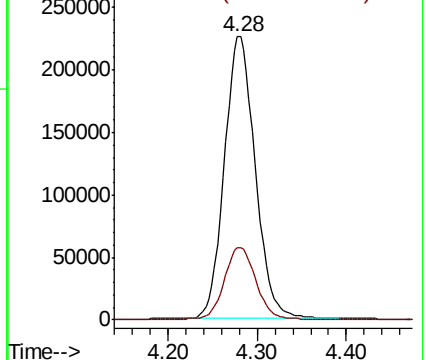
Ion Ratio Lower Upper

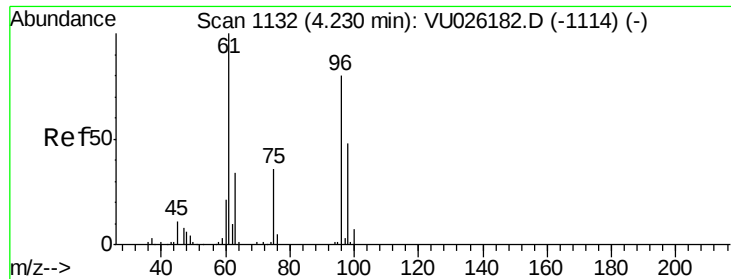
43 100

72 26.8 13.3 39.9



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



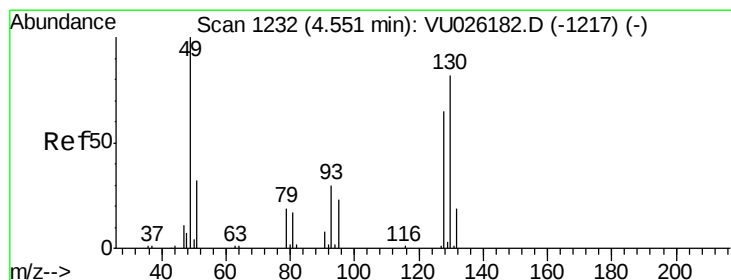
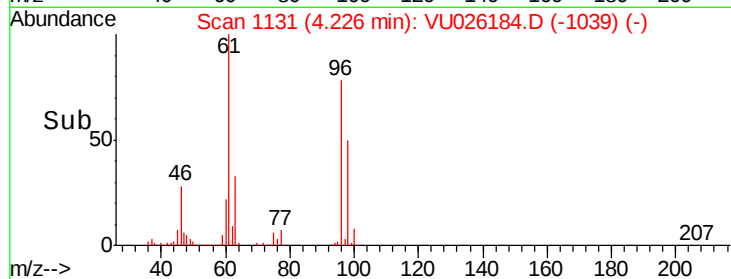
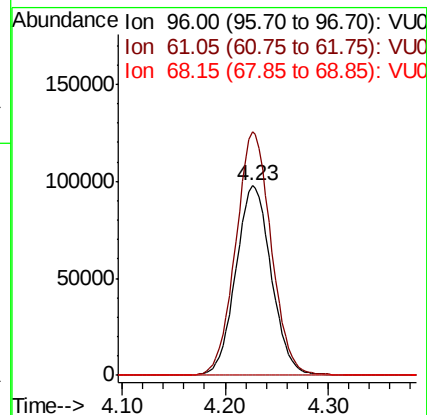
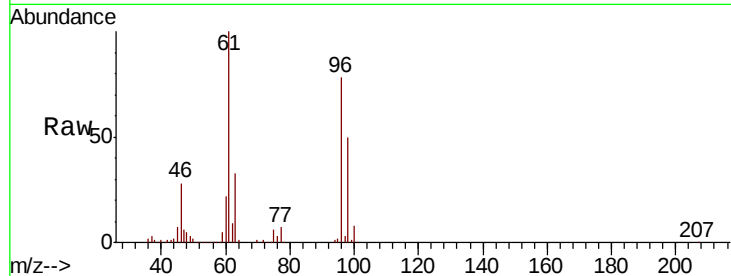


#22

cis-1,2-Dichloroethene
 Concen: 21.969 ug/L
 RT: 4.23 min Scan# 1131
 Delta R.T. -0.00 min
 Lab File: VU026184.D
 Acq: 17 Aug 2018 17:23

Instrument :
 MSVOA_U
 ClientSampleId :

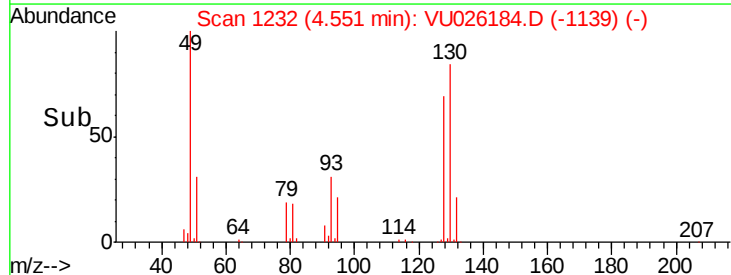
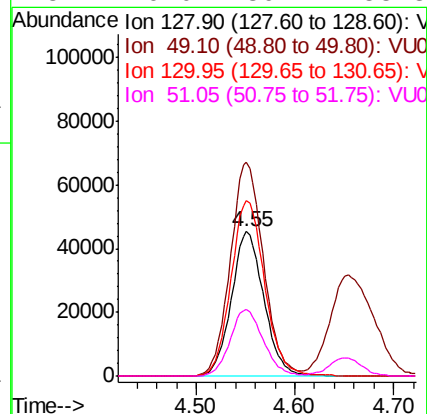
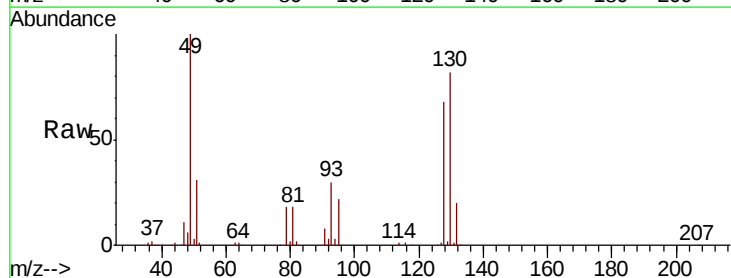
Tot Ion: 96 Resp: 234069
 Ion Ratio Lower Upper
 96 100
 61 128.3 87.1 161.7
 68 0.0 0.0 0.0

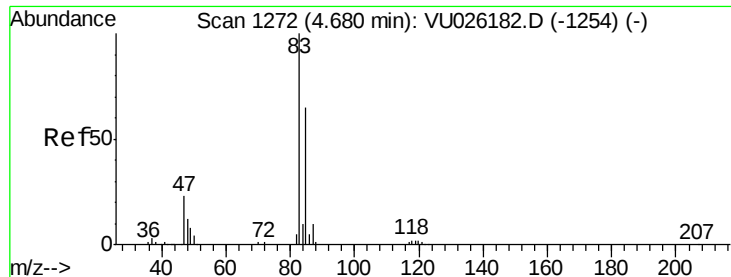


#23

Bromochloromethane
 Concen: 22.009 ug/L
 RT: 4.55 min Scan# 1232
 Delta R.T. -0.00 min
 Lab File: VU026184.D
 Acq: 17 Aug 2018 17:23

Tgt Ion: 128 Resp: 104266
 Ion Ratio Lower Upper
 128 100
 49 147.8 107.6 199.8
 130 121.3 88.2 163.8
 51 46.0 39.2 58.8





#25

Chloroform

Concen: 22.379 ug/L

RT: 4.68 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VU026184.D

Acq: 17 Aug 2018 17:23

Instrument :

MSVOA_U

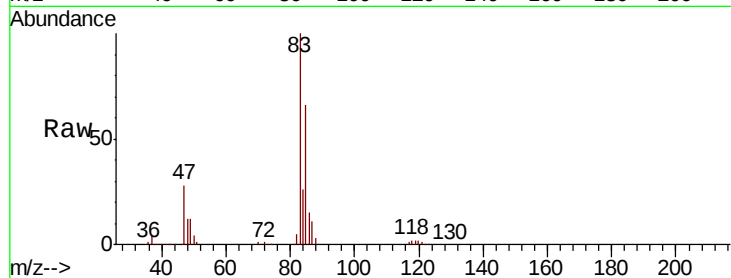
ClientSampleId :

Tot Ion: 83 Resp: 417127

Ion Ratio Lower Upper

83 100

85 65.7 45.5 84.5



Abundance Ion 83.05 (82.75 to 83.75): VU0

Ion 85.00 (84.70 to 85.70): VU0

4.68

200000

150000

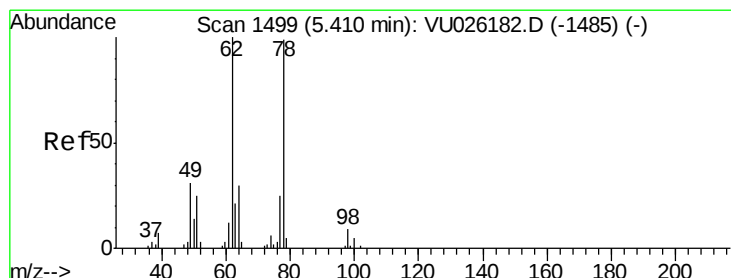
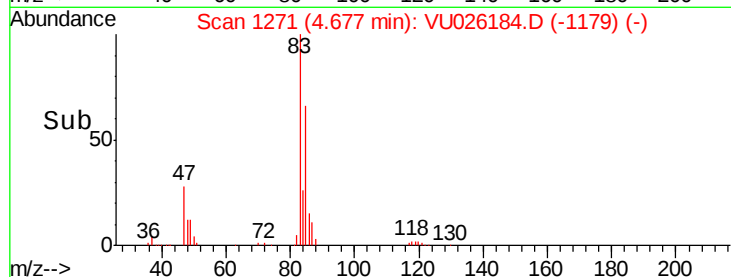
100000

50000

0

4.60 4.70 4.80

Time-->



#27

1,2-Dichloroethane

Concen: 23.023 ug/L

RT: 5.41 min Scan# 1499

Delta R.T. -0.00 min

Lab File: VU026184.D

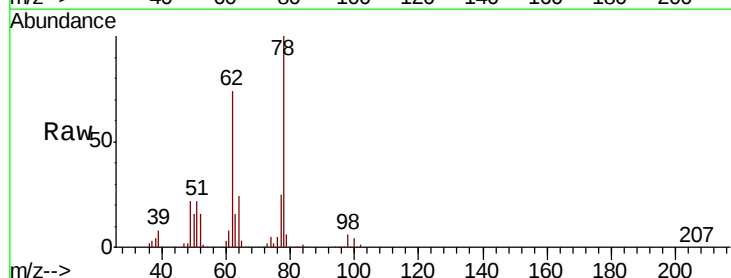
Acq: 17 Aug 2018 17:23

Tgt Ion: 62 Resp: 258439

Ion Ratio Lower Upper

62 100

98 8.1 6.9 10.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.05 (97.75 to 98.75): VU0

5.41

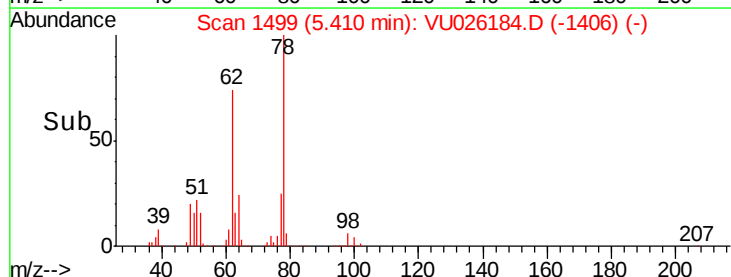
100000

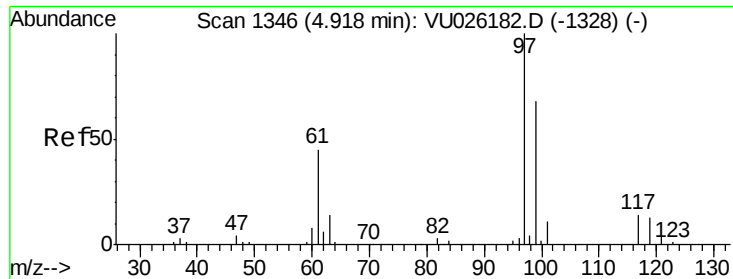
50000

0

5.30 5.40 5.50

Time-->

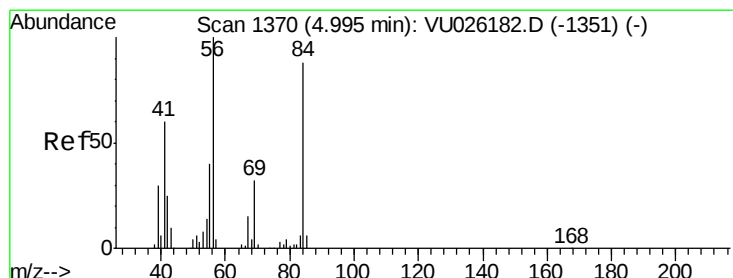
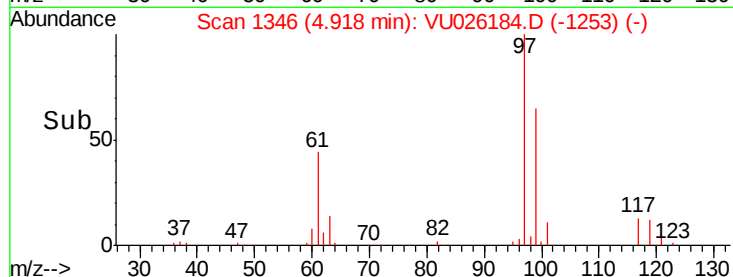
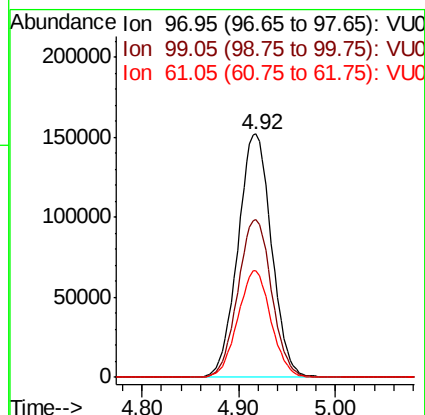
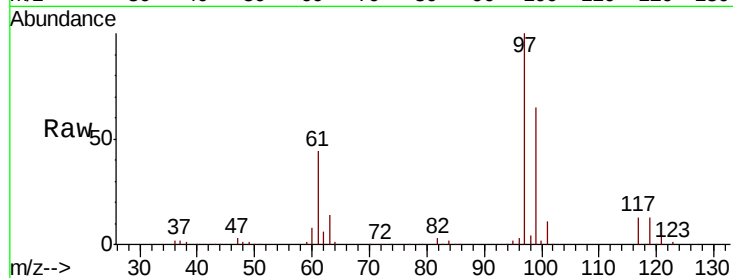




#29
 1,1,1-Trichloroethane
 Concen: 22.803 ug/L
 RT: 4.92 min Scan# 1346
 Delta R.T. -0.00 min
 Lab File: VU026184.D
 Acq: 17 Aug 2018 17:23

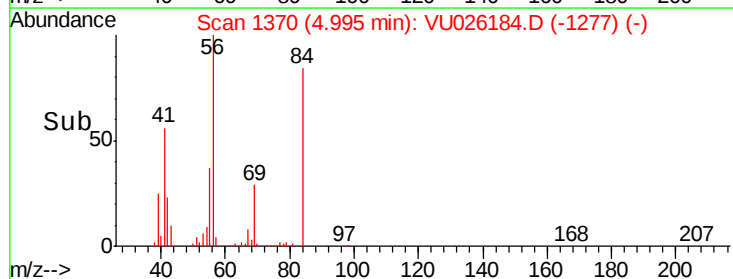
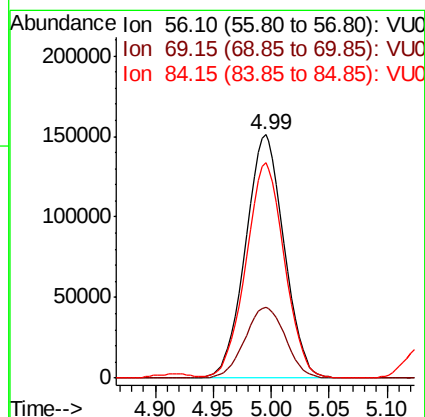
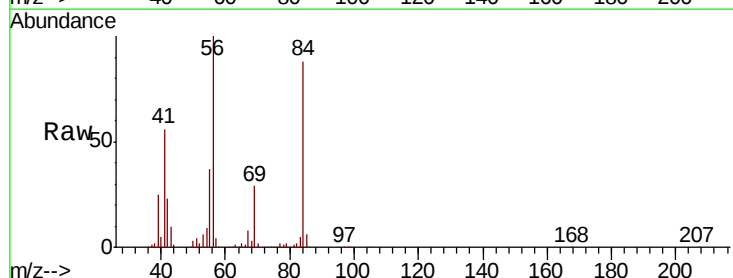
Instrument :
 MSVOA_U
 ClientSampleId :

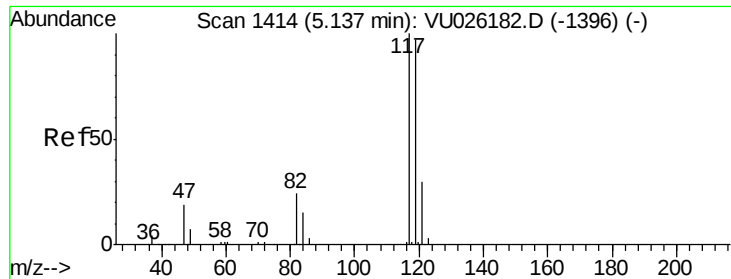
Tot Ion	97	Resp	367230
Ion	Ratio	Lower	Upper
97	100		
99	65.1	52.3	78.5
61	43.3	35.0	52.6



#30
 Cyclohexane
 Concen: 21.106 ug/L
 RT: 4.99 min Scan# 1370
 Delta R.T. -0.00 min
 Lab File: VU026184.D
 Acq: 17 Aug 2018 17:23

Tgt Ion	56	Resp	350302
Ion	Ratio	Lower	Upper
56	100		
69	30.6	24.2	36.2
84	88.4	69.3	103.9





#31

Carbon tetrachloride

Concen: 24.530 ug/L

RT: 5.14 min Scan# 1414

Delta R.T. -0.00 min

Lab File: VU026184.D

Acq: 17 Aug 2018 17:23

Instrument :

MSVOA_U

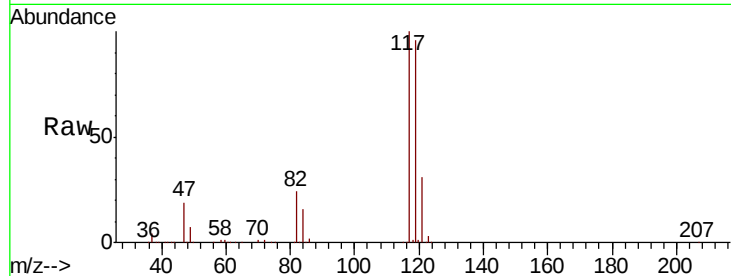
ClientSampleId :

Tot Ion:117 Resp: 346140

Ion Ratio Lower Upper

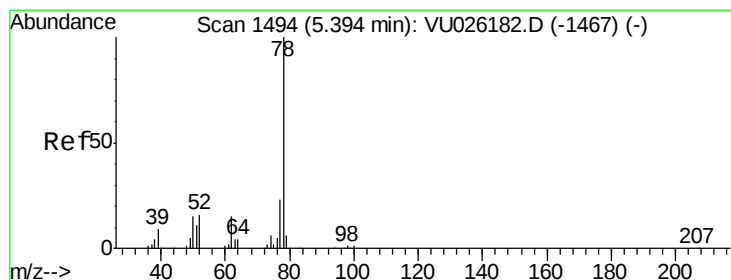
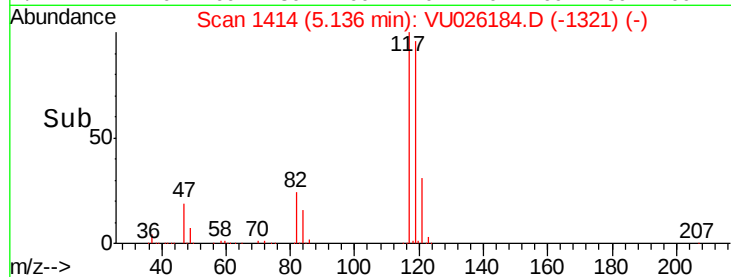
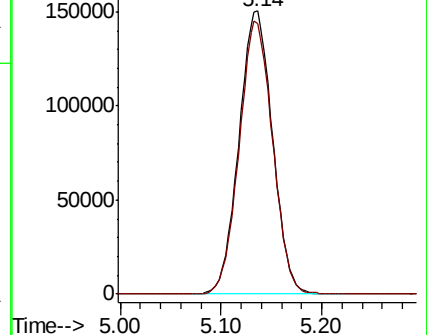
117 100

119 96.0 76.6 115.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 20.255 ug/L

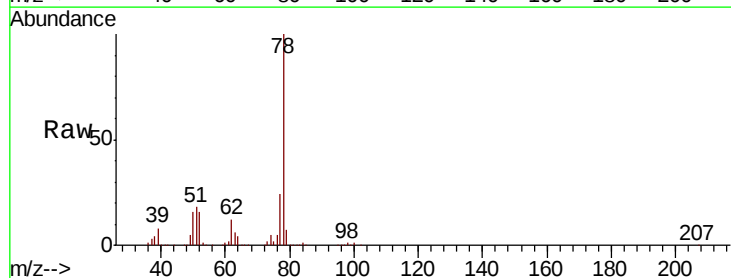
RT: 5.39 min Scan# 1493

Delta R.T. -0.00 min

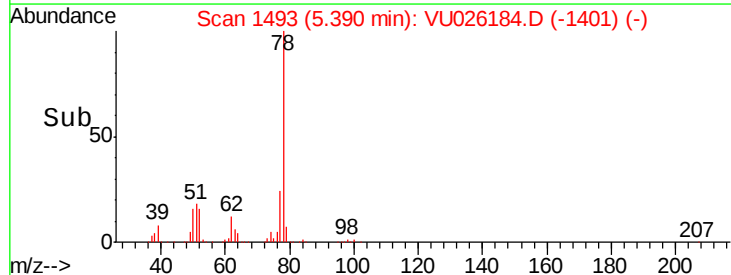
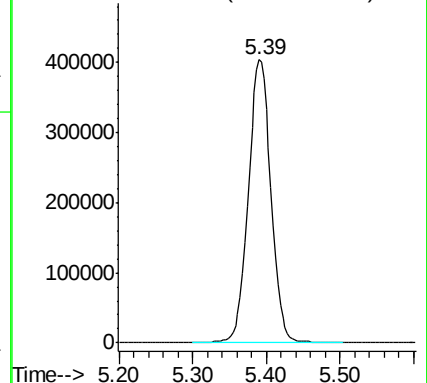
Lab File: VU026184.D

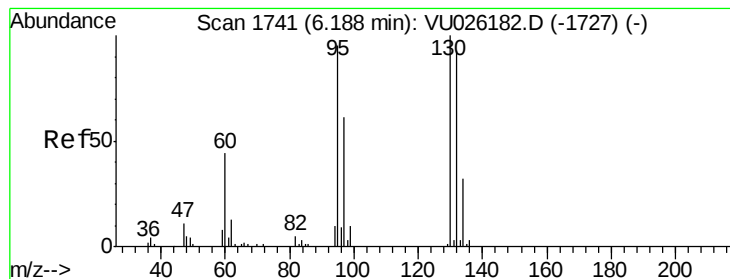
Acq: 17 Aug 2018 17:23

Tgt Ion: 78 Resp: 862877



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 20.599 ug/L

RT: 6.19 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VU026184.D

Acq: 17 Aug 2018 17:23

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 95 Resp: 230845

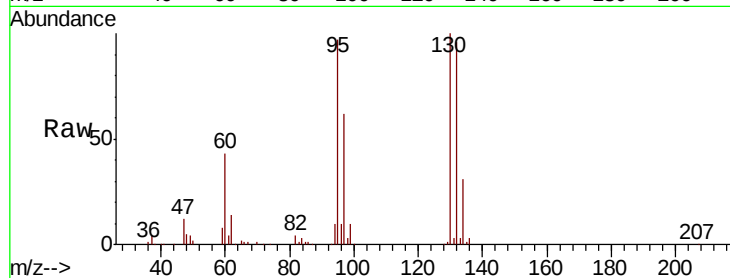
Ion Ratio Lower Upper

95 100

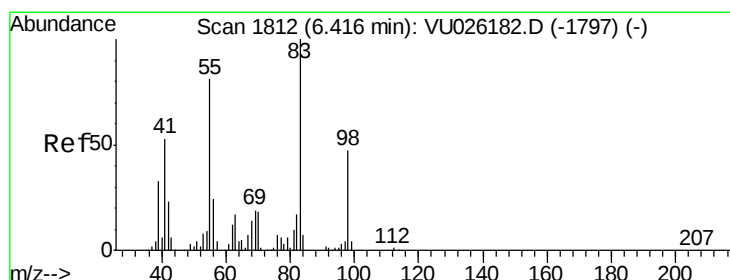
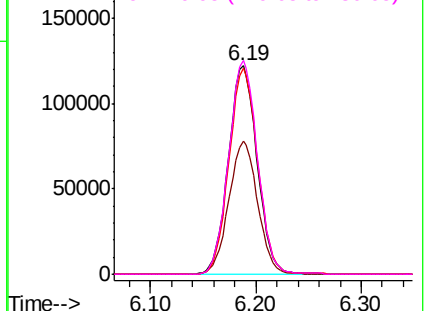
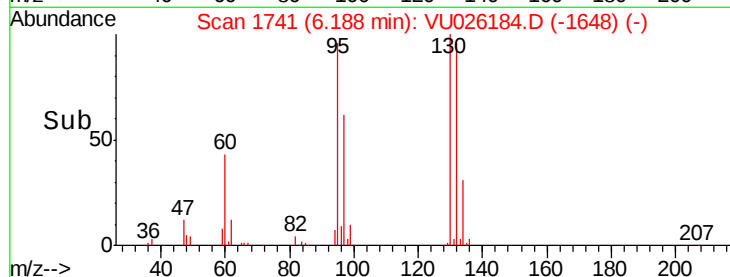
97 63.9 44.9 83.5

132 98.8 68.2 126.6

130 102.6 73.4 136.4



Abundance Ion 95.00 (94.70 to 95.70): VU0
Ion 96.95 (96.65 to 97.65): VU0
Ion 131.95 (131.65 to 132.65): V
Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 22.222 ug/L

RT: 6.42 min Scan# 1812

Delta R.T. -0.00 min

Lab File: VU026184.D

Acq: 17 Aug 2018 17:23

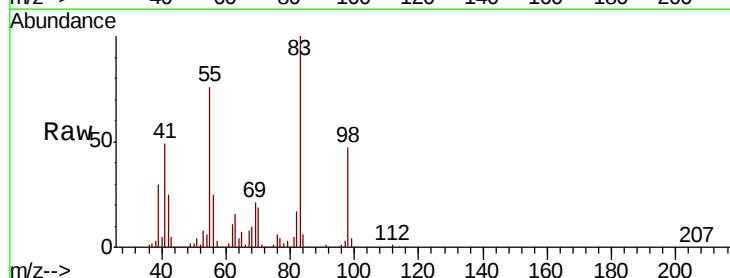
Tgt Ion: 83 Resp: 382383

Ion Ratio Lower Upper

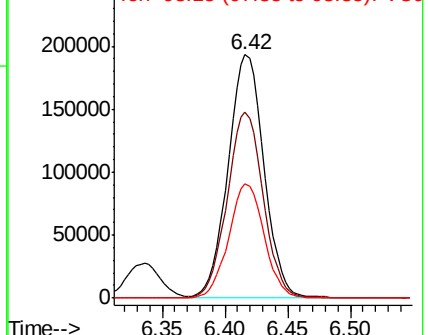
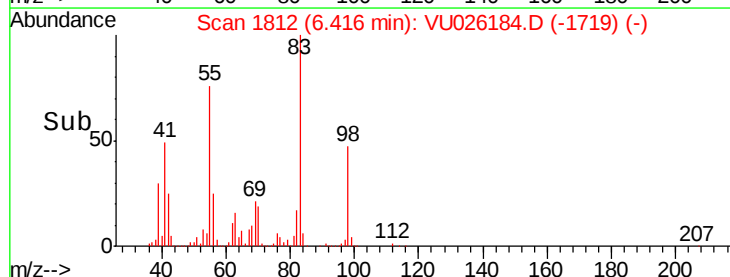
83 100

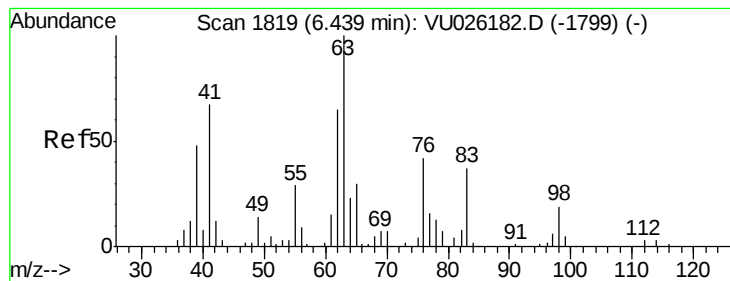
55 77.3 65.0 97.4

98 46.8 37.8 56.6



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: 20.293 ug/L

RT: 6.44 min Scan# 1819

Delta R.T. -0.00 min

Lab File: VU026184.D

Acq: 17 Aug 2018 17:23

Instrument :

MSVOA_U

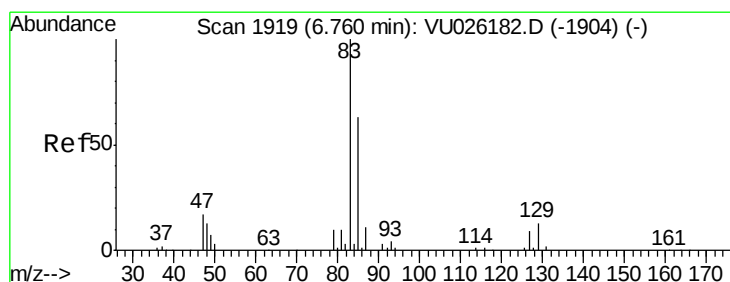
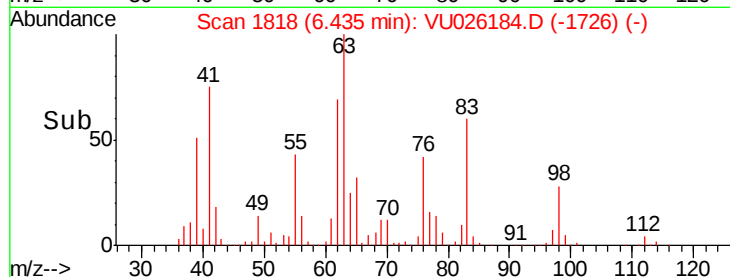
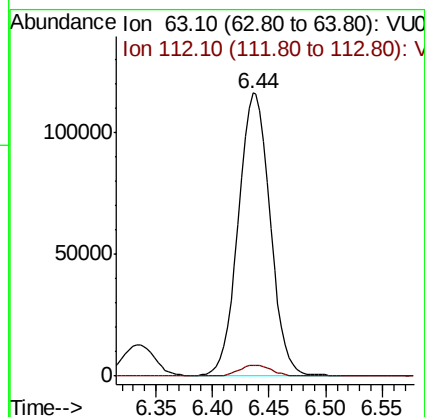
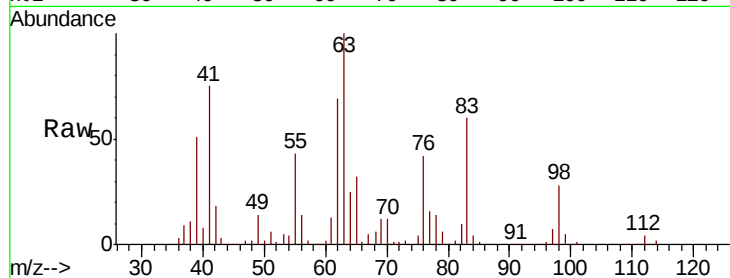
ClientSampled :

Tot Ion: 63 Resp: 227122

Ion Ratio Lower Upper

63 100

112 4.0 1.4 2.2#



#38

Bromodichloromethane

Concen: 22.203 ug/L

RT: 6.76 min Scan# 1919

Delta R.T. -0.00 min

Lab File: VU026184.D

Acq: 17 Aug 2018 17:23

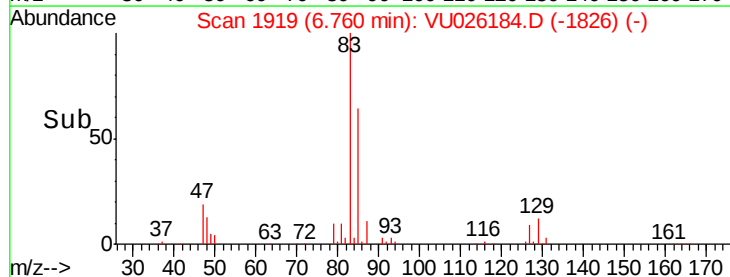
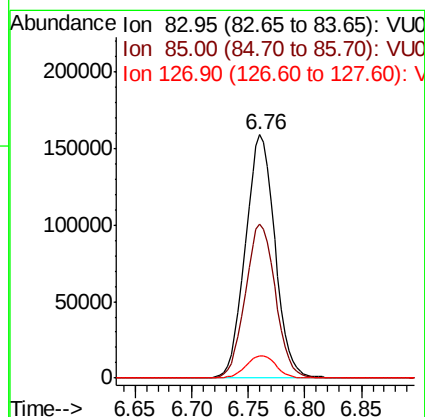
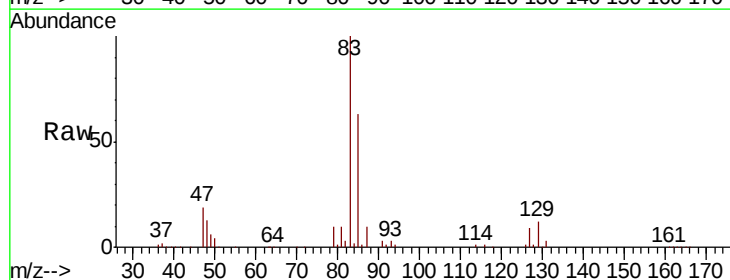
Tgt Ion: 83 Resp: 289565

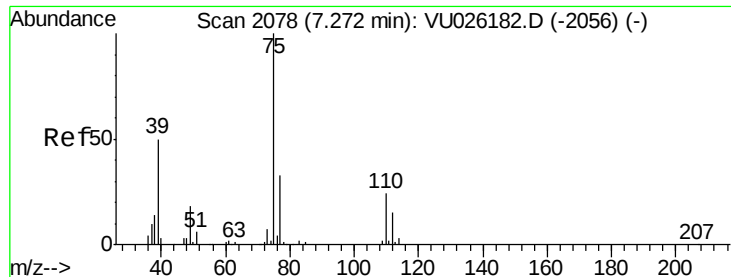
Ion Ratio Lower Upper

83 100

85 63.1 44.2 82.0

127 9.3 7.6 11.4

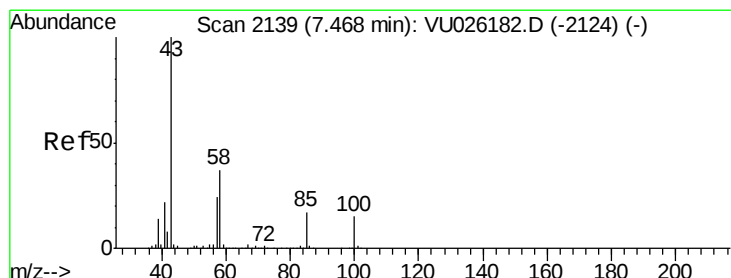
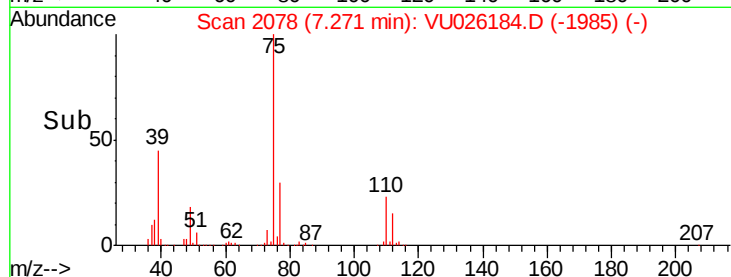
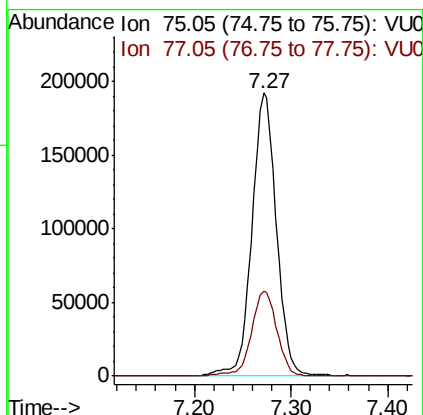
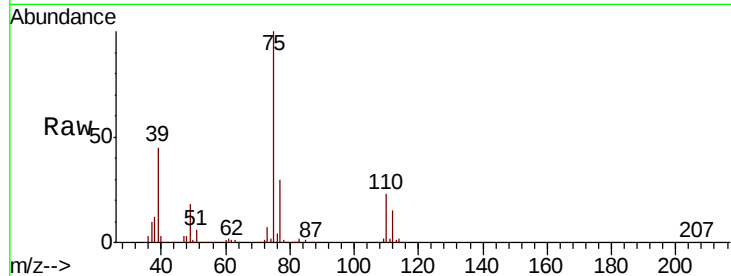




#39
 cis-1,3-Dichloropropene
 Concen: 24.262 ug/L
 RT: 7.27 min Scan# 2078
 Delta R.T. -0.00 min
 Lab File: VU026184.D
 Acq: 17 Aug 2018 17:23

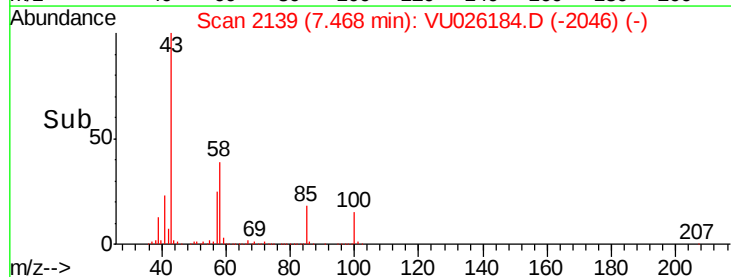
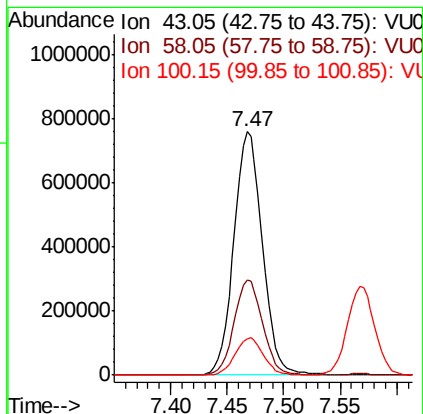
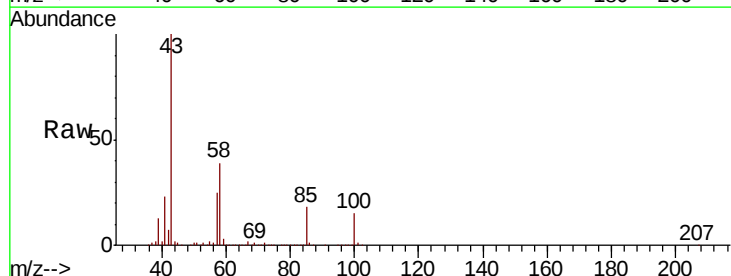
Instrument :
 MSVOA_U
 ClientSampleId :

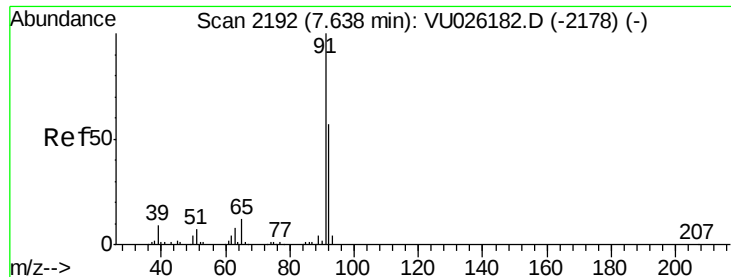
Tot Ion: 75 Resp: 338251
 Ion Ratio Lower Upper
 75 100
 77 30.0 23.3 43.3



#40
 4-Methyl-2-pentanone
 Concen: 217.434 ug/L
 RT: 7.47 min Scan# 2139
 Delta R.T. -0.00 min
 Lab File: VU026184.D
 Acq: 17 Aug 2018 17:23

Tgt Ion: 43 Resp: 1332502
 Ion Ratio Lower Upper
 43 100
 58 39.0 29.8 44.8
 100 15.2 11.6 17.4





#42

Toluene

Concen: 21.795 ug/L

RT: 7.64 min Scan# 2192

Delta R.T. -0.00 min

Lab File: VU026184.D

Acq: 17 Aug 2018 17:23

Instrument :

MSVOA_U

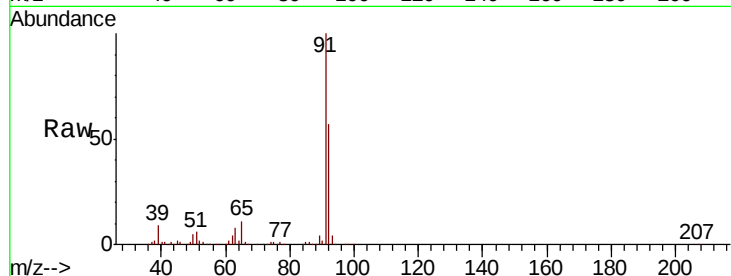
ClientSampled :

Tot Ion: 91 Resp: 955176

Ion Ratio Lower Upper

91 100

92 57.1 40.0 74.4



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0

7.64

600000

500000

400000

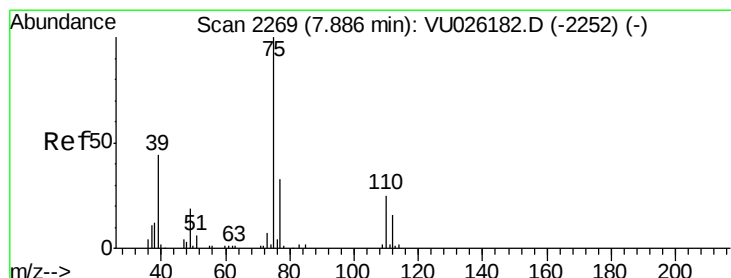
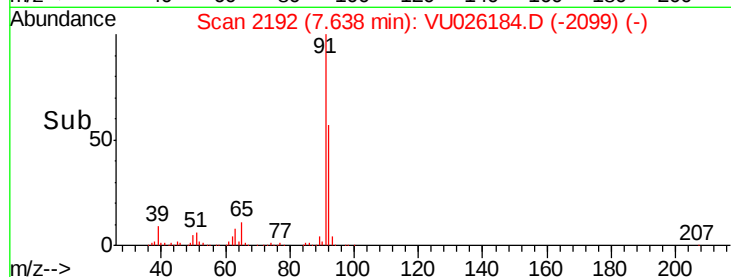
300000

200000

100000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 25.273 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. -0.00 min

Lab File: VU026184.D

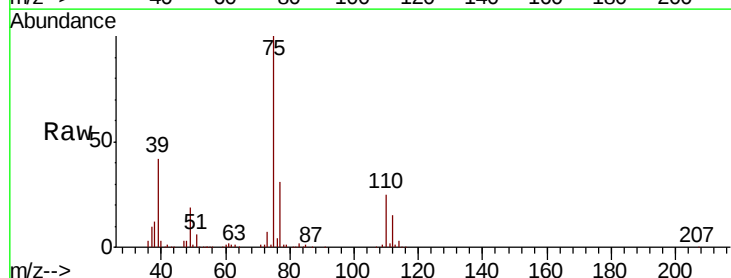
Acq: 17 Aug 2018 17:23

Tgt Ion: 75 Resp: 285867

Ion Ratio Lower Upper

75 100

77 31.3 22.7 42.3



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

7.88

200000

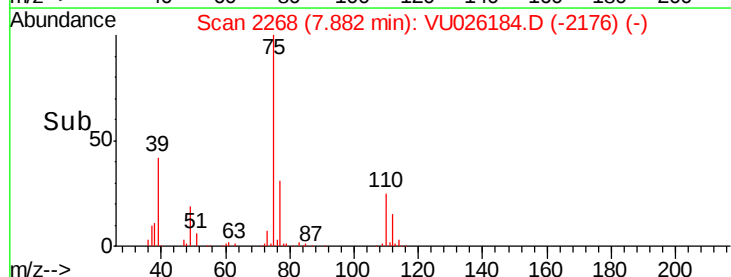
150000

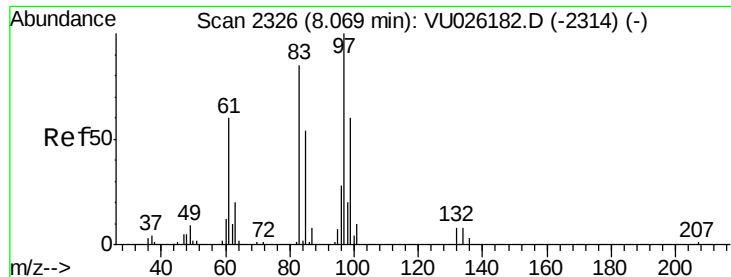
100000

50000

0

Time-->

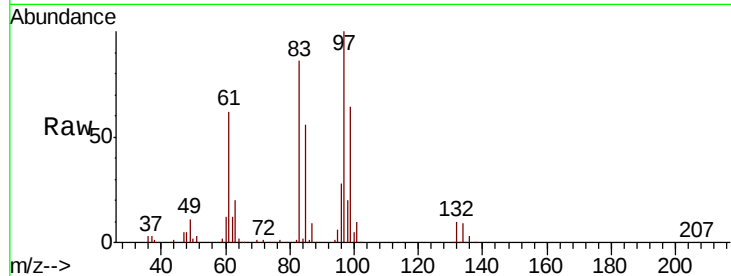




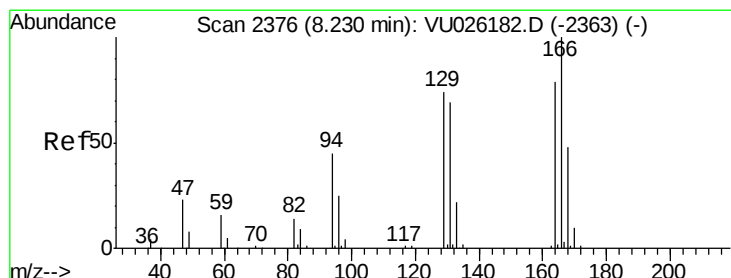
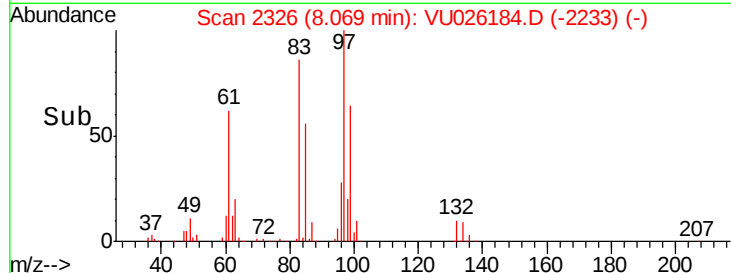
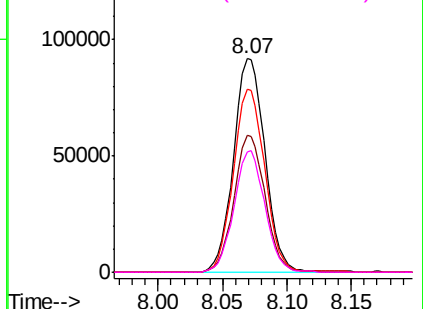
#45
 1,1,2-Trichloroethane
 Concen: 20.825 ug/L
 RT: 8.07 min Scan# 2326
 Delta R.T. -0.00 min
 Lab File: VU026184.D
 Acq: 17 Aug 2018 17:23

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:	97	Resp:	156034
Ion	Ratio	Lower	Upper
97	100		
99	63.9	42.1	78.3
83	85.5	59.2	110.0
85	56.4	37.9	70.3

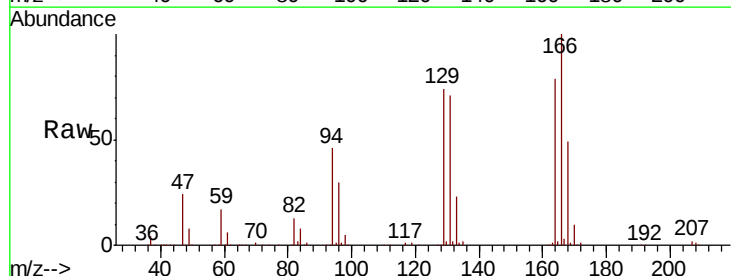


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

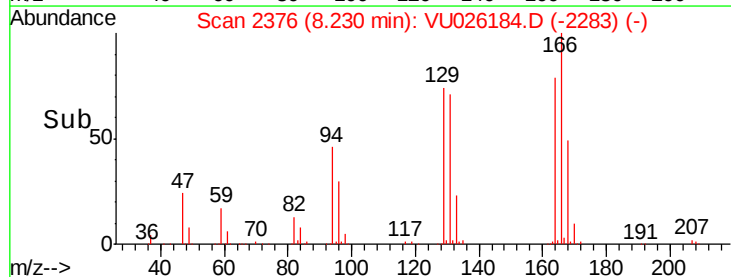
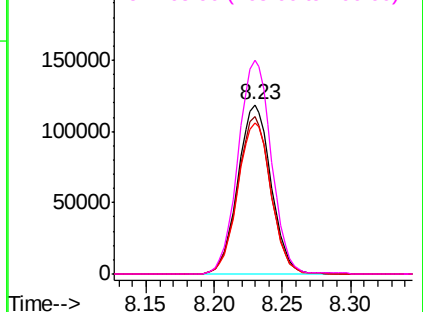


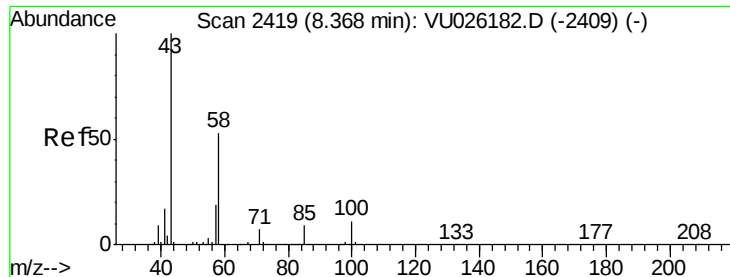
#47
 Tetrachloroethene
 Concen: 21.596 ug/L
 RT: 8.23 min Scan# 2376
 Delta R.T. -0.00 min
 Lab File: VU026184.D
 Acq: 17 Aug 2018 17:23

Tgt Ion:	164	Resp:	200730
Ion	Ratio	Lower	Upper
164	100		
129	93.1	66.1	122.8
131	89.4	61.4	114.0
166	126.3	89.1	165.5



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

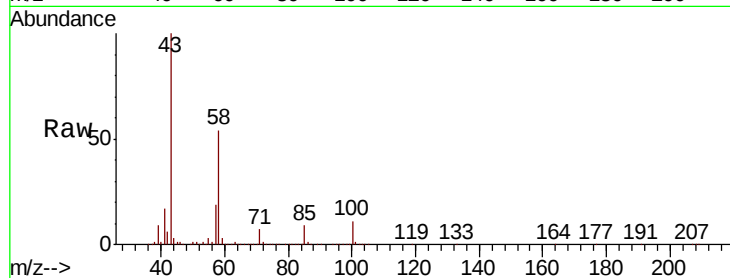




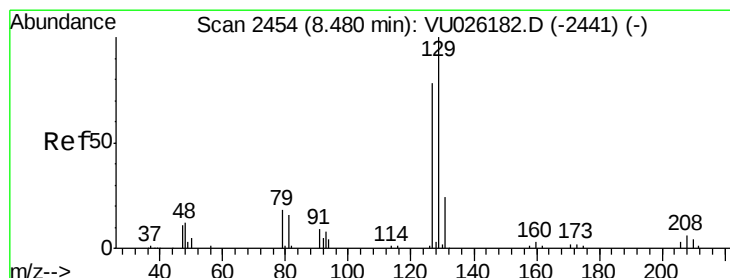
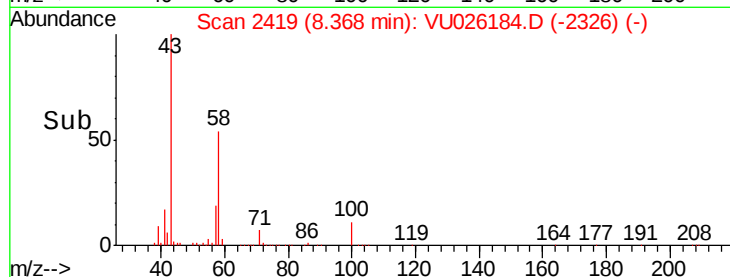
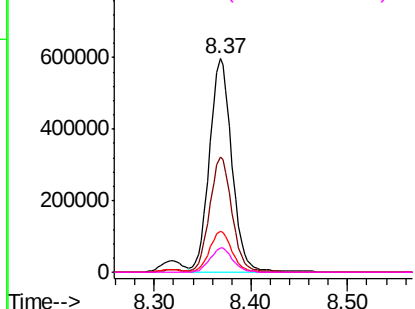
#48
2-Hexanone
Concen: 217.549 ug/L
RT: 8.37 min Scan# 2419
Delta R.T. -0.00 min
Lab File: VU026184.D
Acq: 17 Aug 2018 17:23

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 958758
Ion Ratio Lower Upper
43 100
58 53.5 43.1 64.7
57 19.0 15.4 23.0
100 11.6 9.4 14.0

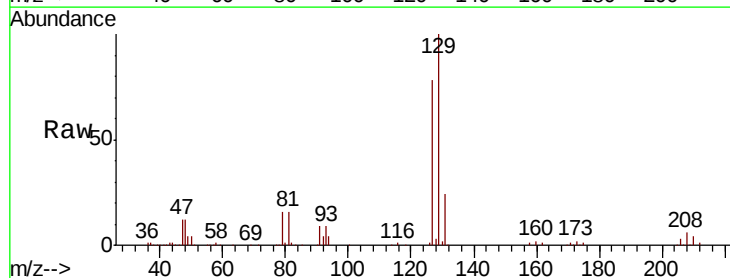


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

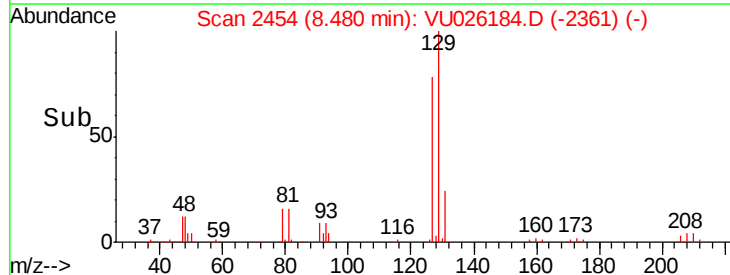
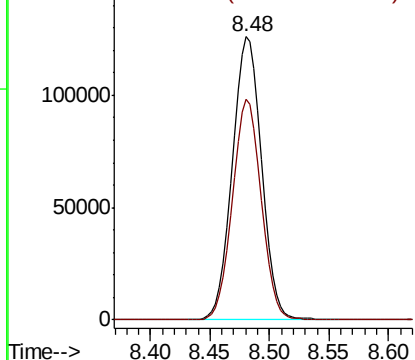


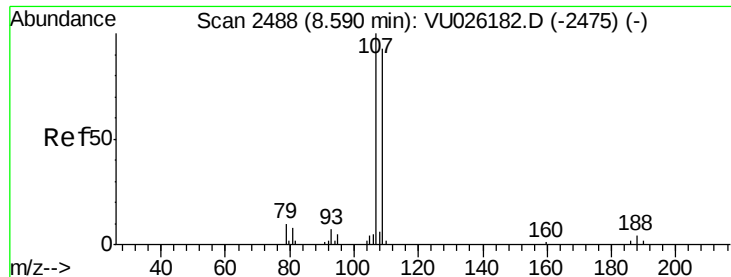
#49
Dibromochloromethane
Concen: 24.540 ug/L
RT: 8.48 min Scan# 2454
Delta R.T. -0.00 min
Lab File: VU026184.D
Acq: 17 Aug 2018 17:23

Tgt Ion: 129 Resp: 215386
Ion Ratio Lower Upper
129 100
127 78.2 54.9 101.9



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

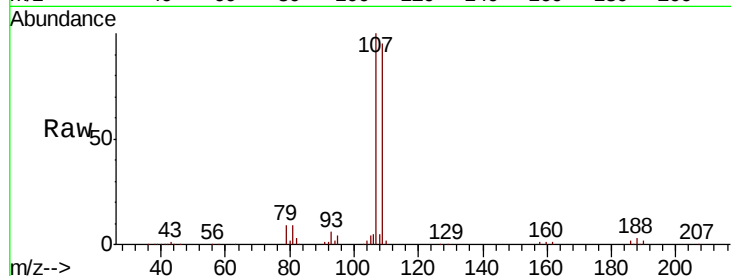




#50
 1,2-Dibromoethane
 Concen: 22.038 ug/L
 RT: 8.59 min Scan# 2488
 Delta R.T. -0.00 min
 Lab File: VU026184.D
 Acq: 17 Aug 2018 17:23

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.0	65.3	121.3
188	3.4	3.0	4.4

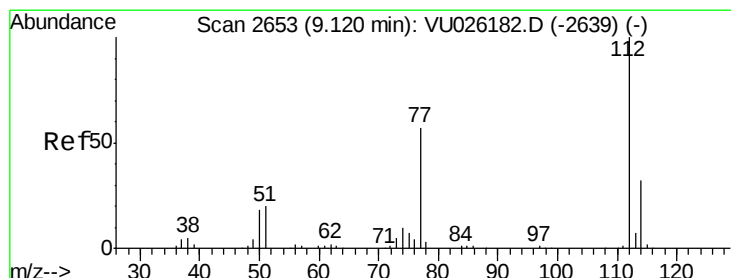
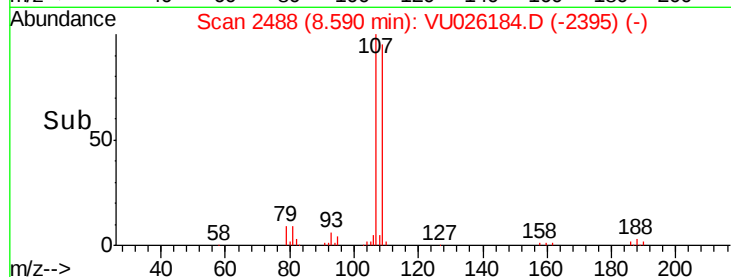
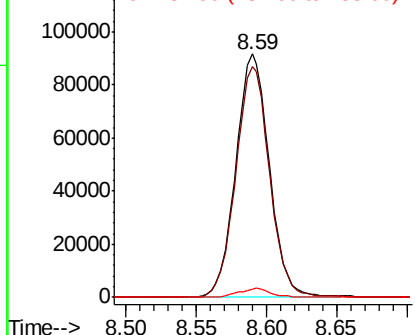


Abundance

Ion 106.95 (106.65 to 107.65): V

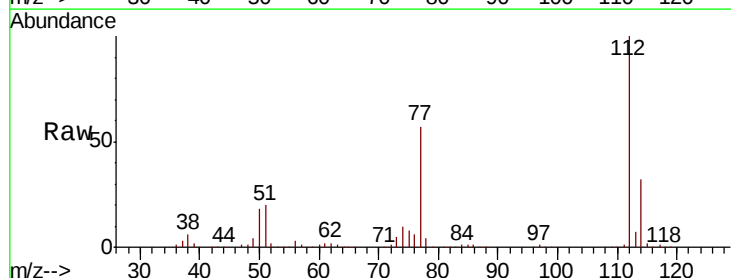
Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V



#51
 Chlorobenzene
 Concen: 21.339 ug/L
 RT: 9.12 min Scan# 2653
 Delta R.T. -0.00 min
 Lab File: VU026184.D
 Acq: 17 Aug 2018 17:23

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.0	22.5	41.7
77	57.0	45.8	68.6

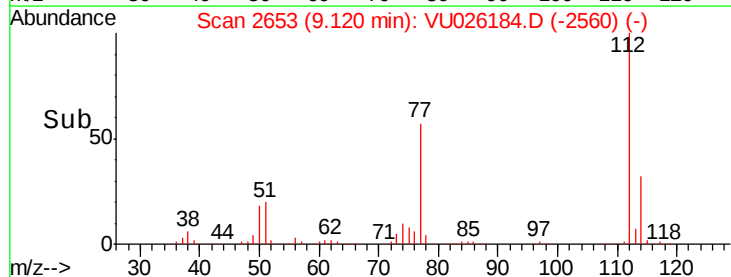
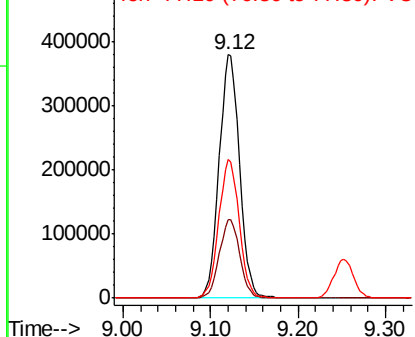


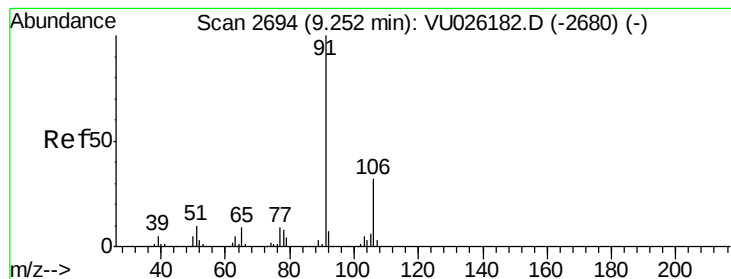
Abundance

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): VU





#52

Ethylbenzene

Concen: 23.605 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VU026184.D

Acq: 17 Aug 2018 17:23

Instrument :

MSVOA_U

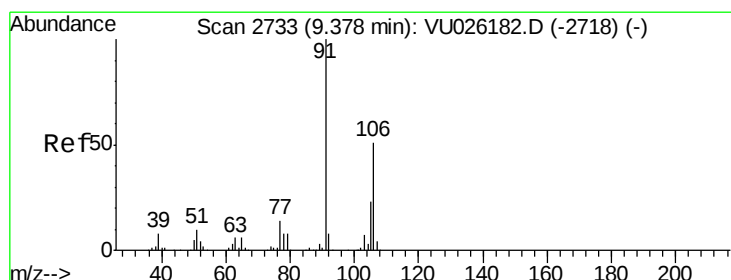
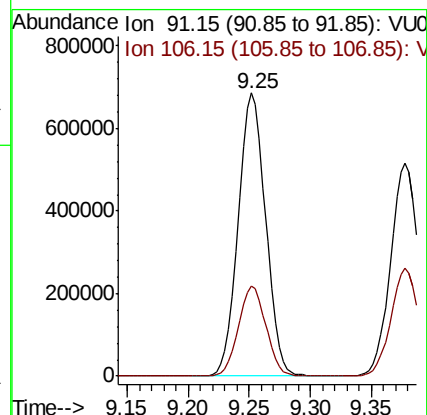
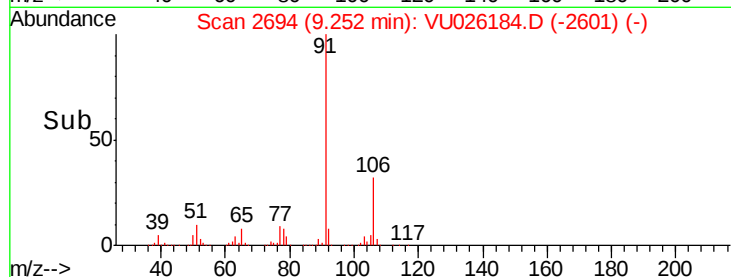
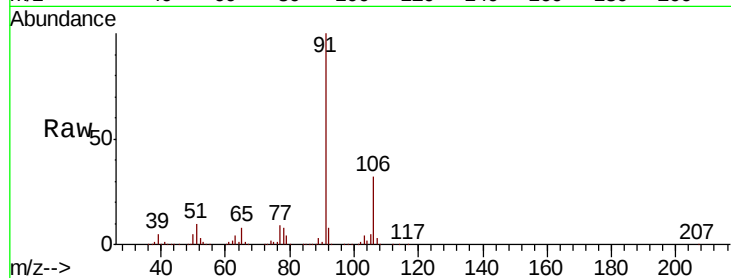
ClientSampleId :

Tot Ion: 91 Resp: 1071102

Ion Ratio Lower Upper

91 100

106 31.7 22.5 41.9



#53

m,p-xylene

Concen: 24.213 ug/L

RT: 9.38 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VU026184.D

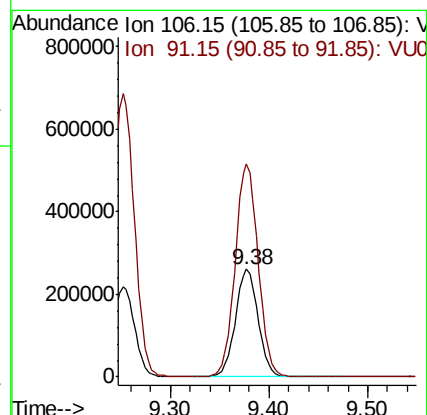
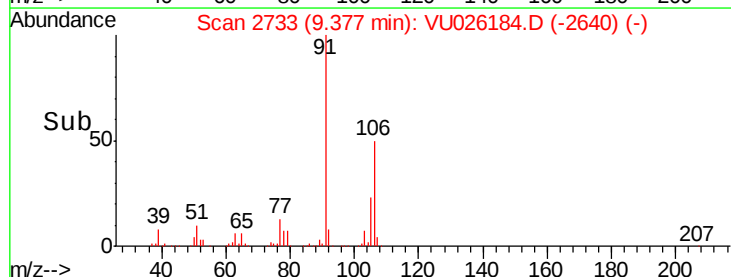
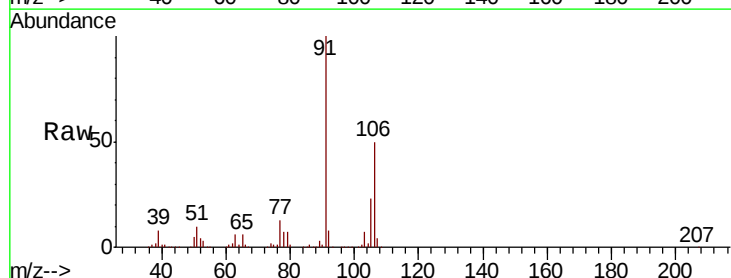
Acq: 17 Aug 2018 17:23

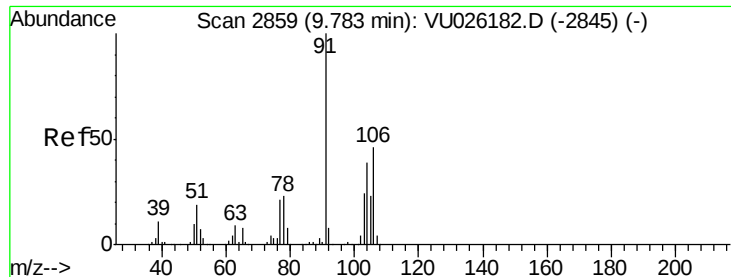
Tgt Ion: 106 Resp: 418472

Ion Ratio Lower Upper

106 100

91 198.6 138.9 257.9





#54

o-xylene

Concen: 23.756 ug/L

RT: 9.78 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VU026184.D

Acq: 17 Aug 2018 17:23

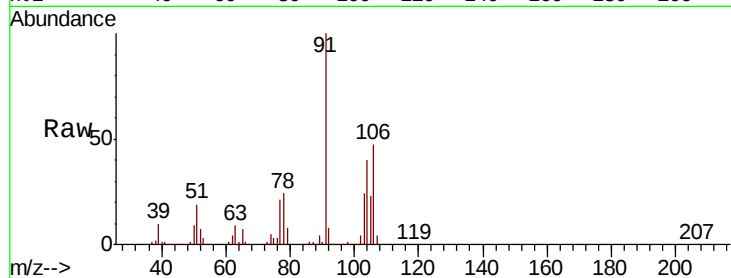
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 400962

Ion Ratio Lower Upper

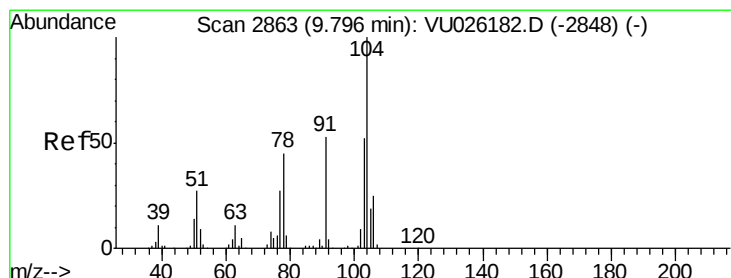
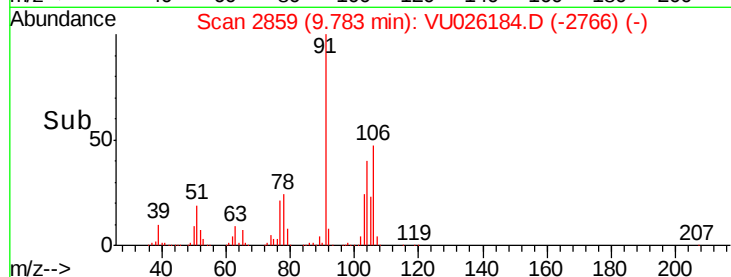
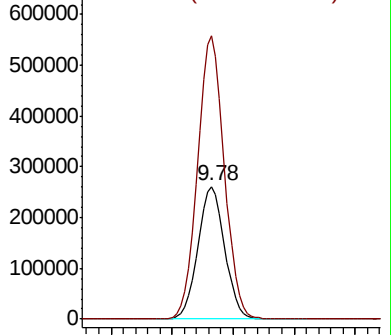
106 100

91 212.9 150.7 279.9



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 24.953 ug/L

RT: 9.80 min Scan# 2863

Delta R.T. -0.00 min

Lab File: VU026184.D

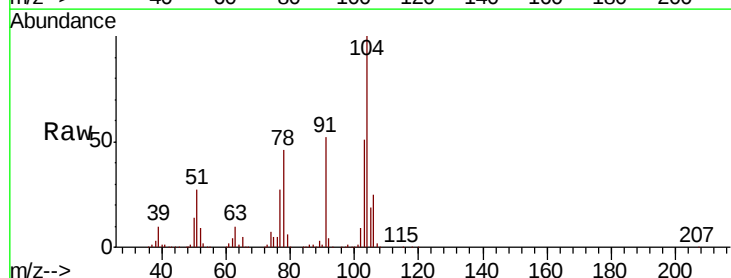
Acq: 17 Aug 2018 17:23

Tgt Ion:104 Resp: 697650

Ion Ratio Lower Upper

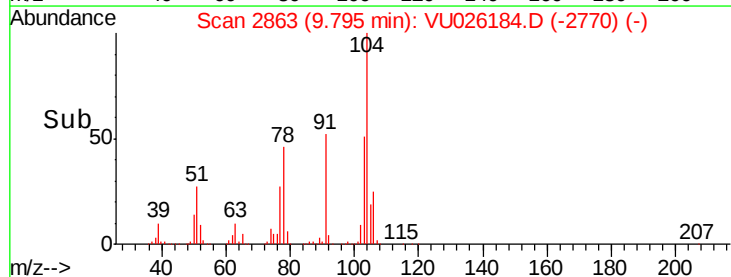
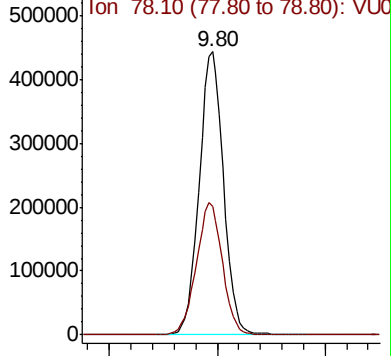
104 100

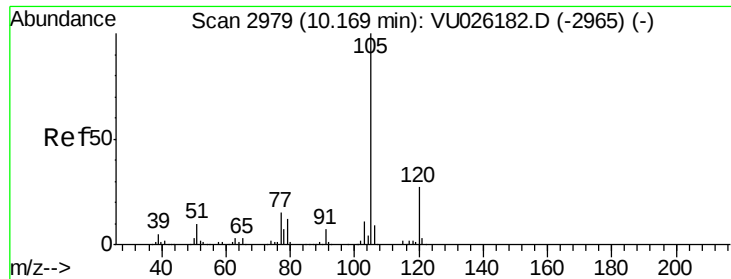
78 45.6 31.8 59.0



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 24.533 ug/L

RT: 10.17 min Scan# 2979

Delta R.T. -0.00 min

Lab File: VU026184.D

Acq: 17 Aug 2018 17:23

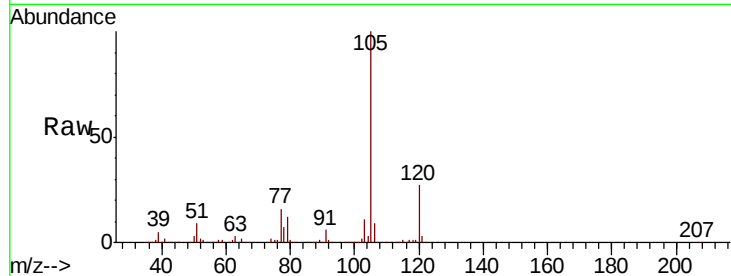
Instrument :

MSVOA_U

ClientSampleId :

Tot Ion:105 Resp: 1080690

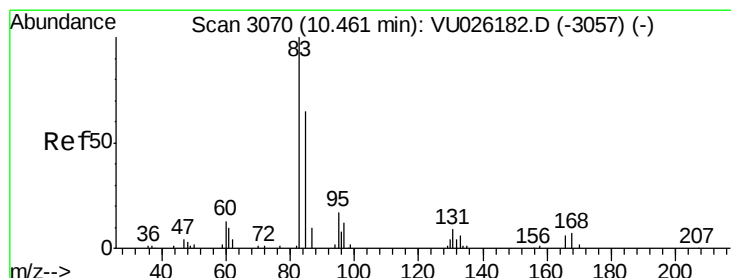
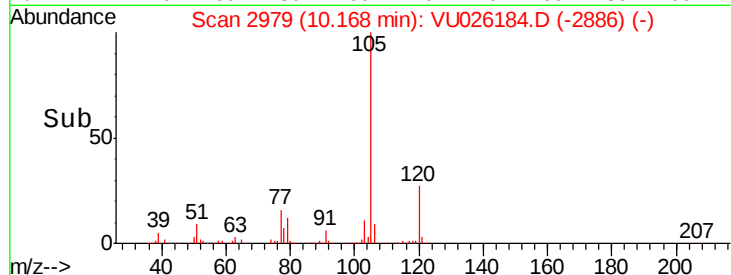
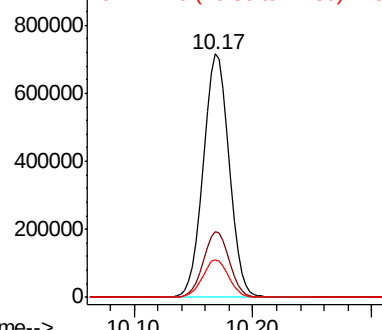
Ion	Ratio	Lower	Upper
105	100		
120	27.1	21.4	32.2
77	15.6	12.4	18.6



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: 20.910 ug/L

RT: 10.46 min Scan# 3070

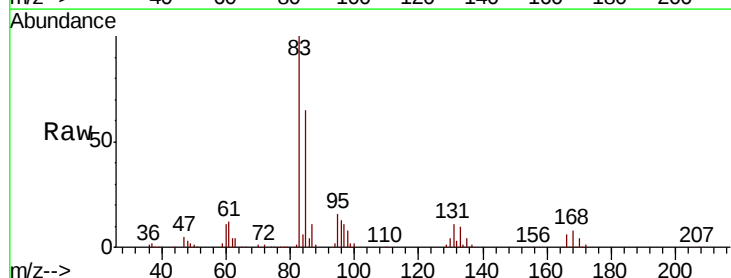
Delta R.T. -0.00 min

Lab File: VU026184.D

Acq: 17 Aug 2018 17:23

Tgt Ion: 83 Resp: 197300

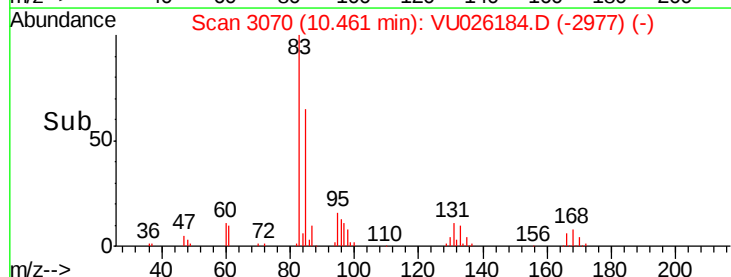
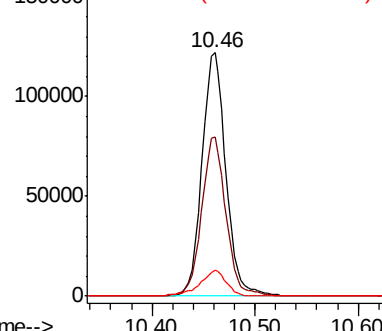
Ion	Ratio	Lower	Upper
83	100		
85	65.1	45.7	84.9
131	10.5	7.7	11.5

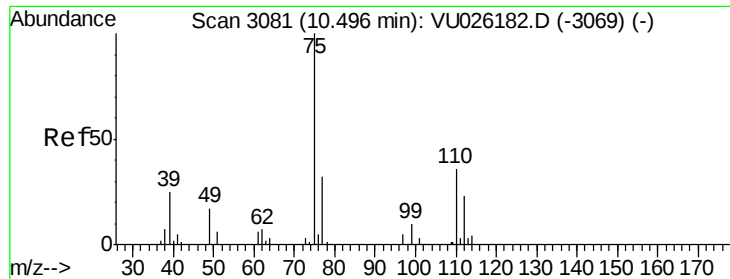


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

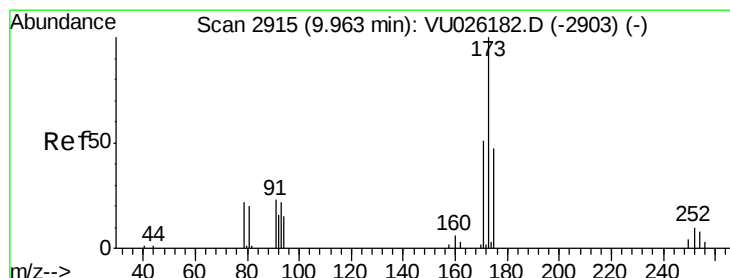
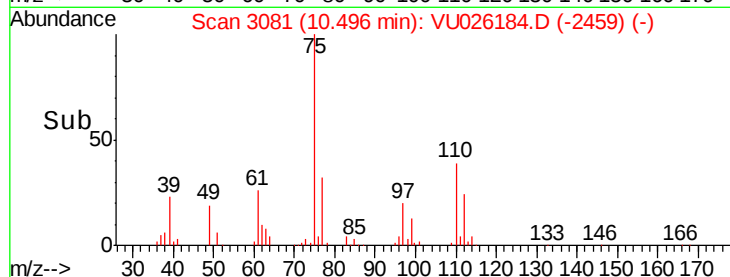
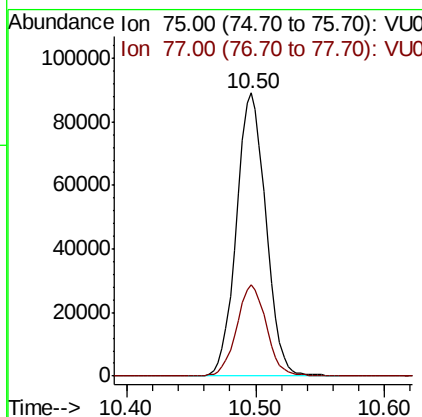
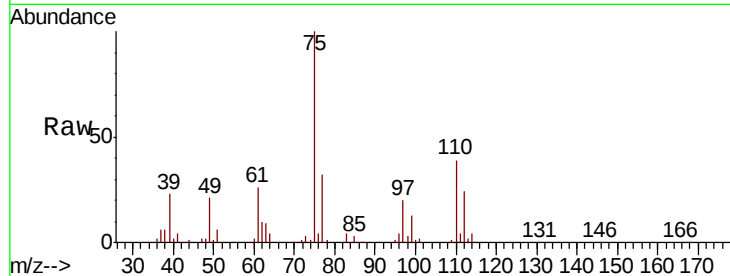




#59
 1,2,3-Trichloropropane
 Concen: 22.228 ug/L
 RT: 10.50 min Scan# 3081
 Delta R.T. -0.00 min
 Lab File: VU026184.D
 Acq: 17 Aug 2018 17:23

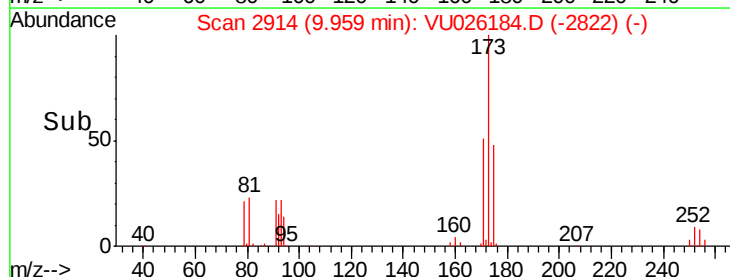
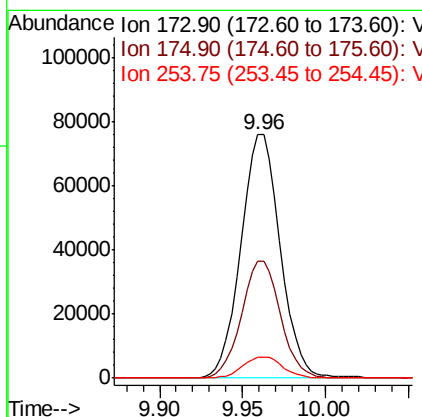
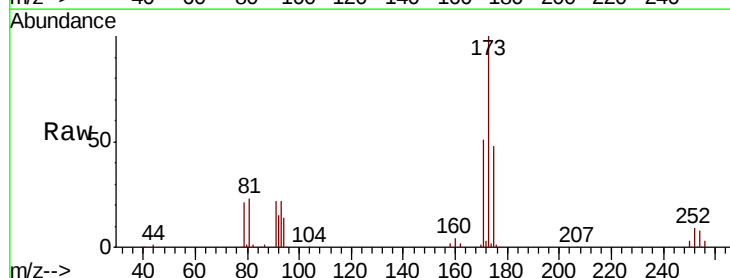
Instrument :
 MSVOA_U
 ClientSampleId :

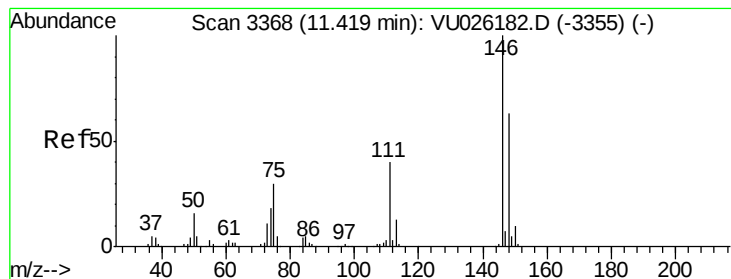
Tot Ion: 75 Resp: 141691
 Ion Ratio Lower Upper
 75 100
 77 32.0 29.0 43.4



#61
 Bromoform
 Concen: 21.331 ug/L
 RT: 9.96 min Scan# 2914
 Delta R.T. -0.00 min
 Lab File: VU026184.D
 Acq: 17 Aug 2018 17:23

Tgt Ion: 173 Resp: 125011
 Ion Ratio Lower Upper
 173 100
 175 47.8 39.0 58.6
 254 8.8 6.8 10.2





#62

1,3-Dichlorobenzene

Concen: 20.083 ug/L

RT: 11.42 min Scan# 3368

Delta R.T. -0.00 min

Lab File: VU026184.D

Acq: 17 Aug 2018 17:23

Instrument :

MSVOA_U

ClientSampled :

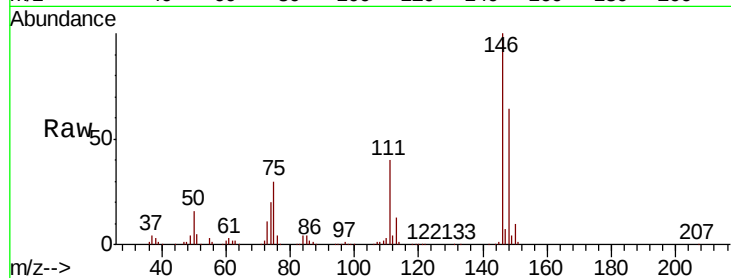
Tot Ion:146 Resp: 504737

Ion Ratio Lower Upper

146 100

111 39.7 27.9 51.7

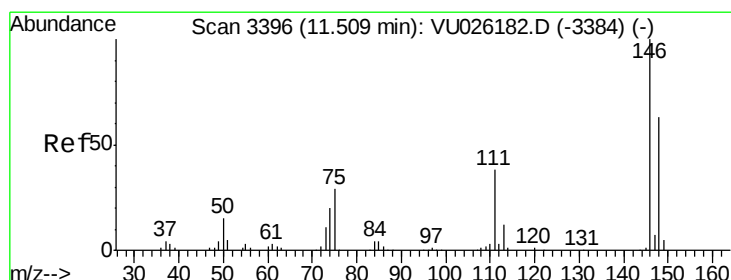
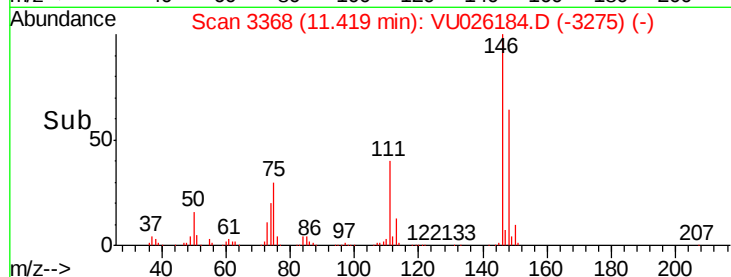
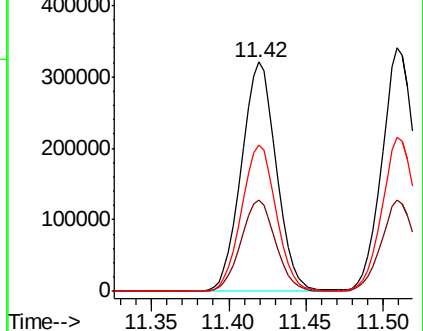
148 64.0 44.2 82.0



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: 20.519 ug/L

RT: 11.51 min Scan# 3396

Delta R.T. -0.00 min

Lab File: VU026184.D

Acq: 17 Aug 2018 17:23

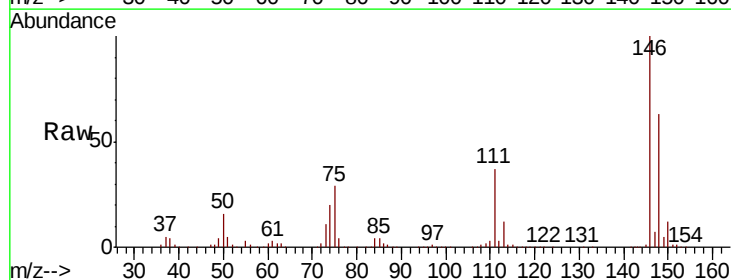
Tgt Ion:146 Resp: 519647

Ion Ratio Lower Upper

146 100

111 37.2 26.8 49.8

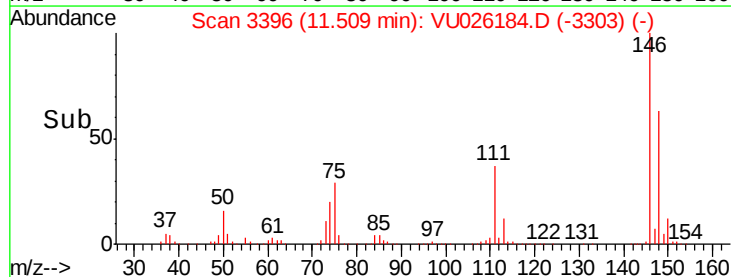
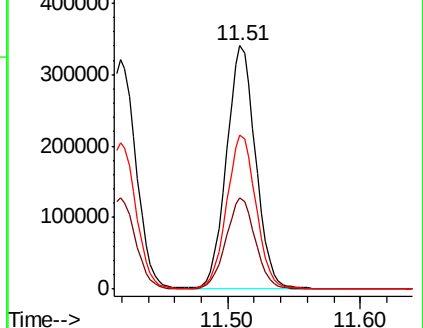
148 63.1 44.2 82.0

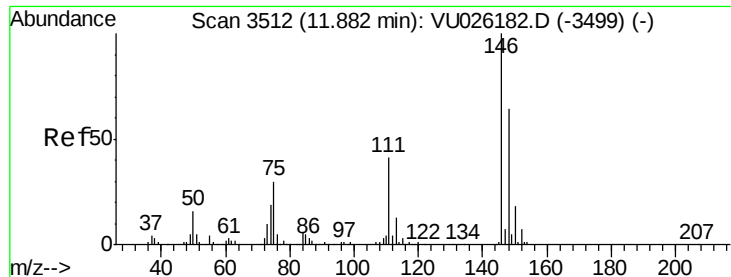


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 19.446 ug/L

RT: 11.88 min Scan# 3512

Delta R.T. -0.00 min

Lab File: VU026184.D

Acq: 17 Aug 2018 17:23

Instrument :

MSVOA_U

ClientSampleId :

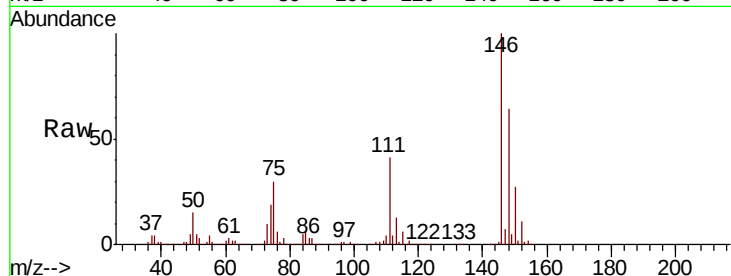
Tot Ion:146 Resp: 489832

Ion Ratio Lower Upper

146 100

111 41.4 33.0 49.4

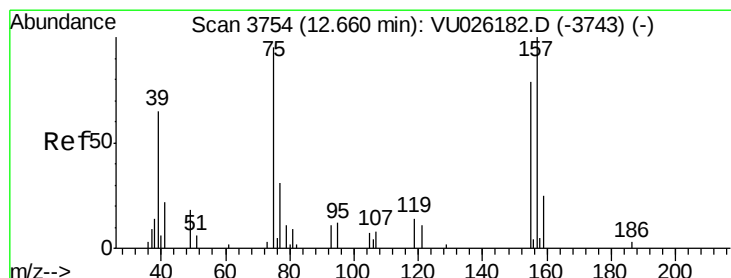
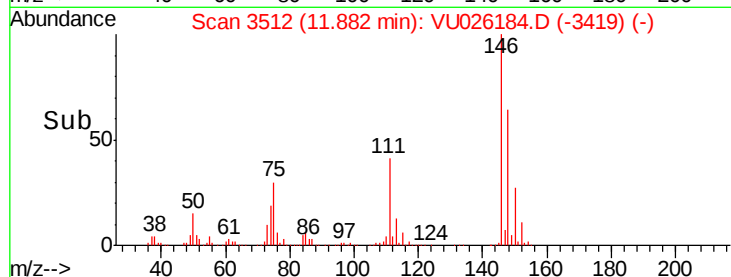
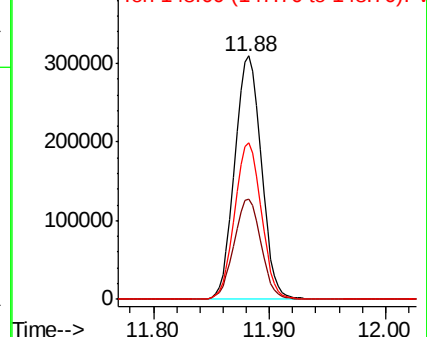
148 64.4 51.4 77.0



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: 21.028 ug/L

RT: 12.66 min Scan# 3753

Delta R.T. -0.00 min

Lab File: VU026184.D

Acq: 17 Aug 2018 17:23

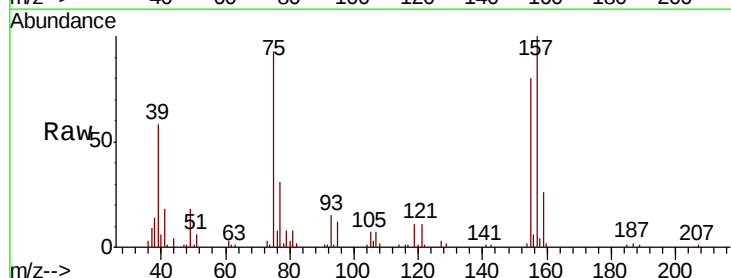
Tgt Ion: 75 Resp: 33087

Ion Ratio Lower Upper

75 100

155 86.3 66.2 99.4

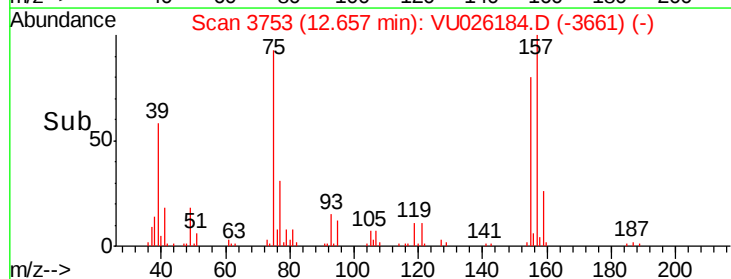
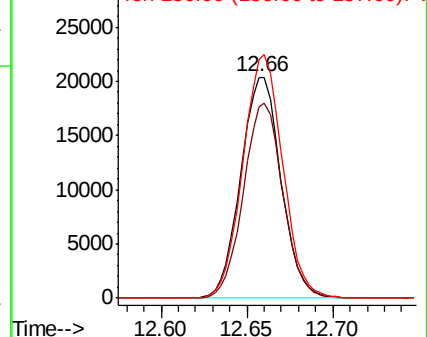
157 107.7 84.2 126.4

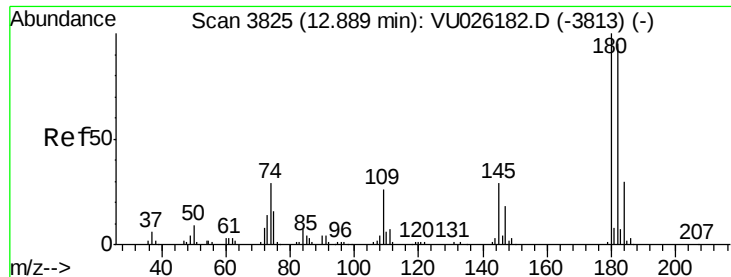


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

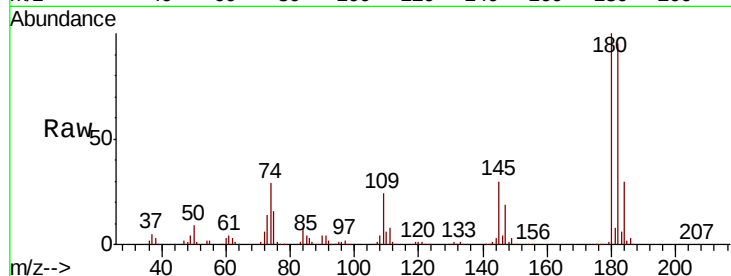




#67
 1,3,5-Trichlorobenzene
 Concen: 20.917 ug/L
 RT: 12.89 min Scan# 3825
 Delta R.T. -0.00 min
 Lab File: VU026184.D
 Acq: 17 Aug 2018 17:23

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.0	75.8	113.8
184	30.5	24.2	36.2
145	29.3	23.7	35.5



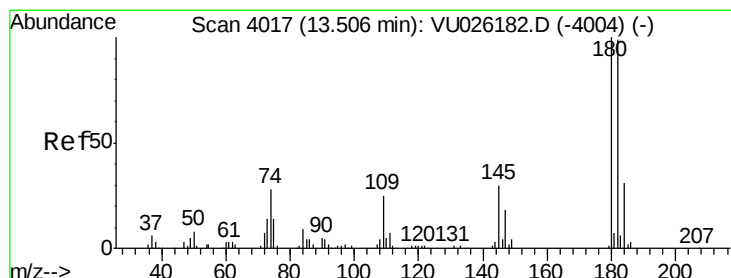
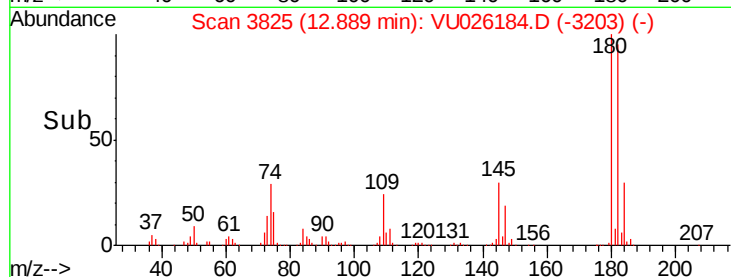
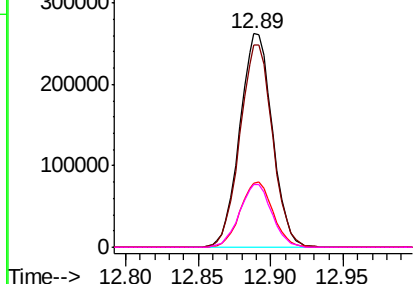
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

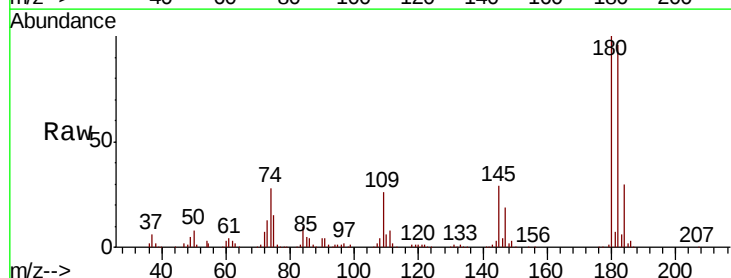
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 24.709 ug/L
 RT: 13.51 min Scan# 4017
 Delta R.T. -0.00 min
 Lab File: VU026184.D
 Acq: 17 Aug 2018 17:23

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.0	77.9	116.9
145	29.1	24.2	36.2

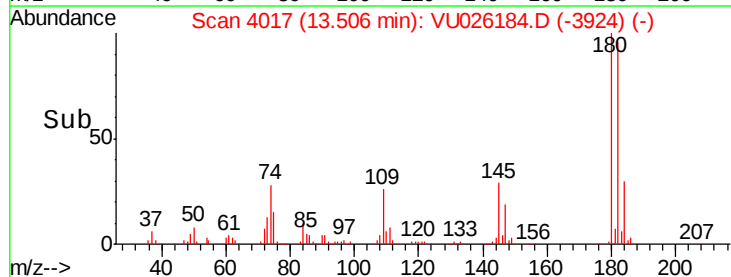
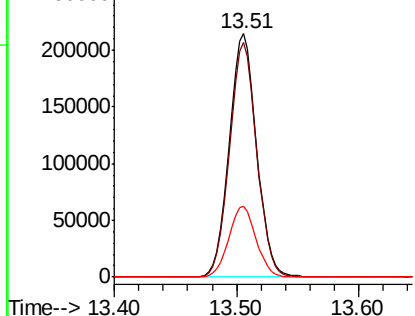


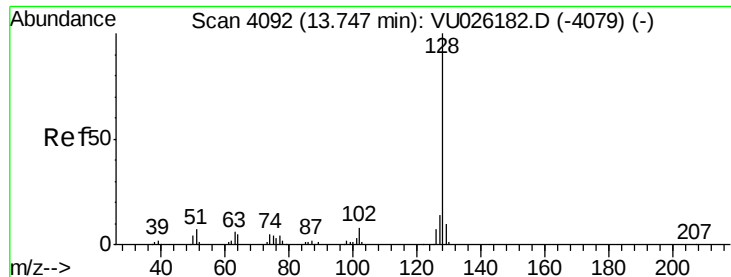
Abundance

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

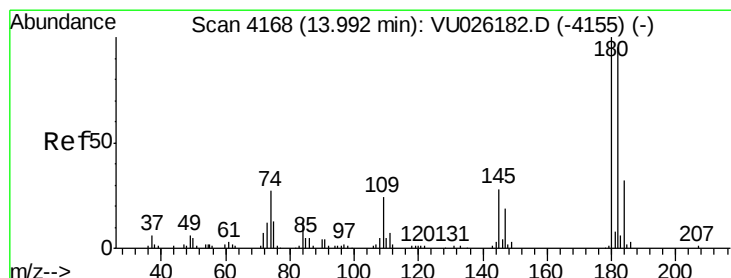
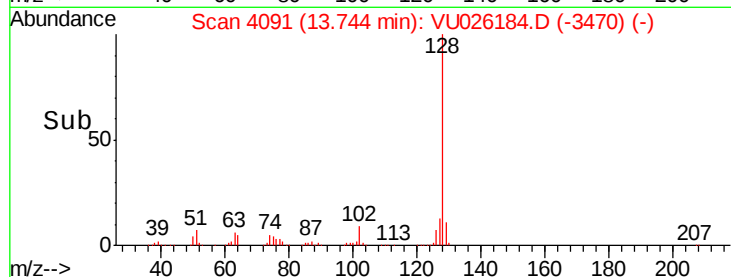
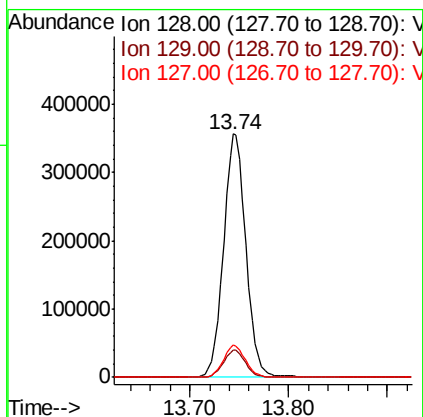
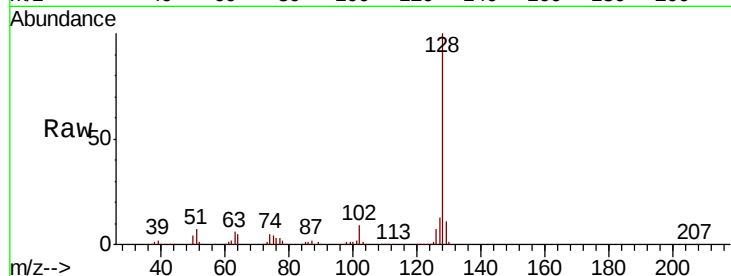




#69
Naphthalene
Concen: 27.947 ug/L
RT: 13.74 min Scan# 4091
Delta R.T. -0.00 min
Lab File: VU026184.D
Acq: 17 Aug 2018 17:23

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:128 Resp: 569403
Ion Ratio Lower Upper
128 100
129 10.9 8.6 13.0
127 12.9 10.7 16.1



#70
1,2,3-Trichlorobenzene
Concen: 23.499 ug/L
RT: 13.99 min Scan# 4167
Delta R.T. -0.00 min
Lab File: VU026184.D
Acq: 17 Aug 2018 17:23

Tgt Ion:180 Resp: 311384
Ion Ratio Lower Upper
180 100
182 96.0 77.8 116.6
145 32.1 24.9 37.3

