

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081718\
 Data File : VU026183.D
 Acq On : 17 Aug 2018 16:58
 Operator : MD/SY
 Sample : VSTD01043
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Aug 18 00:01:28 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	142101	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	141679	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	74528	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	78972	7.90	ug/L	0.00
7) Chloroethane-d5	1.68	69	64898	8.04	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.28	63	163846	8.84	ug/L	0.00
20) 2-Butanone-d5	4.19	46	222521	88.56	ug/L	0.00
24) Chloroform-d	4.65	84	178806	9.82	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.32	65	94108	10.02	ug/L	0.00
32) Benzene-d6	5.34	84	353327	8.90	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.34	67	110263	8.86	ug/L	0.00
41) Toluene-d8	7.57	98	350339	9.39	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	47108	11.16	ug/L	0.00
46) 2-Hexanone-d5	8.32	63	201554	94.38	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.44	84	90278	9.52	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	137422	8.94	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	130980	11.308 ug/L	99
3) Chloromethane	1.33	50	123310	10.446 ug/L	98
5) Vinyl chloride	1.41	62	117235	9.999 ug/L	99
6) Bromomethane	1.63	94	65040	10.621 ug/L	96
8) Chloroethane	1.70	64	66648	8.097 ug/L	97
9) Trichlorofluoromethane	1.89	101	167489	10.775 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	91132	9.883 ug/L	98
12) 1,1-Dichloroethene	2.29	96	82461	9.502 ug/L	95
13) Acetone	2.32	43	133650	89.818 ug/L	100
14) Carbon disulfide	2.48	76	288062	9.854 ug/L	99
15) Methyl Acetate	2.62	43	36843	8.137 ug/L	98
16) Methylene chloride	2.70	84	91577	9.268 ug/L	97
17) Methyl tert-butyl Ether	3.01	73	206193	9.826 ug/L	98
18) trans-1,2-Dichloroethene	2.98	96	90572	9.665 ug/L	98
19) 1,1-Dichloroethane	3.45	63	173141	9.678 ug/L	97
21) 2-Butanone	4.28	43	254470	98.196 ug/L	100
22) cis-1,2-Dichloroethene	4.23	96	113549	10.717 ug/L	93
23) Bromochloromethane	4.55	128	50507	10.721 ug/L	98
25) Chloroform	4.68	83	214634	11.579 ug/L	100
27) 1,2-Dichloroethane	5.41	62	126126	11.299 ug/L	100
29) 1,1,1-Trichloroethane	4.92	97	180954	11.452 ug/L	100
30) Cyclohexane	5.00	56	166158	10.203 ug/L	100
31) Carbon tetrachloride	5.14	117	171292	12.371 ug/L	99
33) Benzene	5.39	78	422032	10.096 ug/L	100
34) Trichloroethene	6.19	95	113596	10.331 ug/L	98
35) Methylcyclohexane	6.42	83	178525	10.574 ug/L	97
37) 1,2-Dichloropropane	6.44	63	111982	10.197 ug/L	# 94
38) Bromodichloromethane	6.76	83	143186	11.189 ug/L	98
39) cis-1,3-Dichloropropene	7.27	75	158168	11.562 ug/L	99
40) 4-Methyl-2-pentanone	7.47	43	625878	104.085 ug/L	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081718\
 Data File : VU026183.D
 Acq On : 17 Aug 2018 16:58
 Operator : MD/SY
 Sample : VSTD01043
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 5 Sample Multiplier: 1

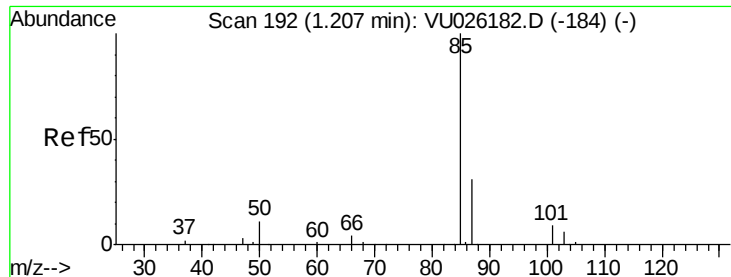
Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Aug 18 00:01:28 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)

42) Toluene	7.64	91	462267	10.750	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	134689	12.136	ug/L	98
45) 1,1,2-Trichloroethane	8.07	97	75307	10.243	ug/L	97
47) Tetrachloroethene	8.23	164	96585	10.591	ug/L	99
48) 2-Hexanone	8.37	43	441237	102.037	ug/L	100
49) Dibromochloromethane	8.48	129	102093	11.855	ug/L	95
50) 1,2-Dibromoethane	8.59	107	73166	10.772	ug/L	98
51) Chlorobenzene	9.12	112	298414	10.540	ug/L	100
52) Ethylbenzene	9.25	91	497464	11.173	ug/L	98
53) m,p-xylene	9.38	106	199105	11.741	ug/L	99
54) o-xylene	9.78	106	191462	11.561	ug/L	97
55) Styrene	9.80	104	331495	12.084	ug/L	100
56) Isopropylbenzene	10.17	105	506178	11.711	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.46	83	94723	10.231	ug/L	98
59) 1,2,3-Trichloropropane	10.50	75	67861	10.850	ug/L	95
61) Bromoform	9.96	173	58073	10.586	ug/L	99
62) 1,3-Dichlorobenzene	11.42	146	234870	9.984	ug/L	99
63) 1,4-Dichlorobenzene	11.51	146	245266	10.346	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	231543	9.820	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.66	75	15725	10.677	ug/L	99
67) 1,3,5-Trichlorobenzene	12.89	180	190789	10.417	ug/L	99
68) 1,2,4-trichlorobenzene	13.51	180	150615	11.854	ug/L	98
69) Naphthalene	13.75	128	234361	12.289	ug/L	100
70) 1,2,3-Trichlorobenzene	13.99	180	143194	11.545	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 11.308 ug/L

RT: 1.21 min Scan# 192

Delta R.T. -0.00 min

Lab File: VU026183.D

Acq: 17 Aug 2018 16:58

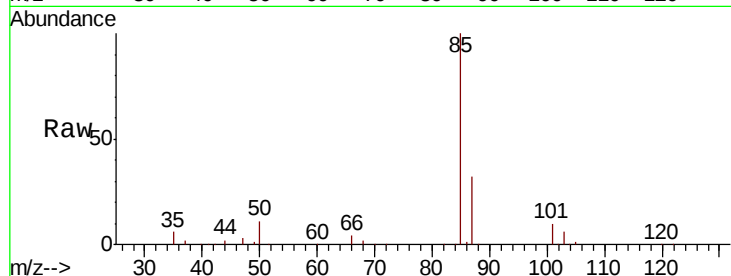
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 130980

Ion Ratio Lower Upper

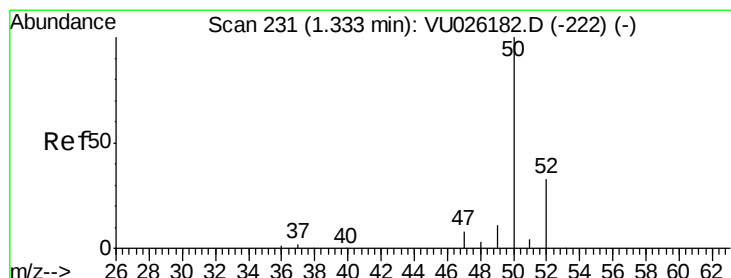
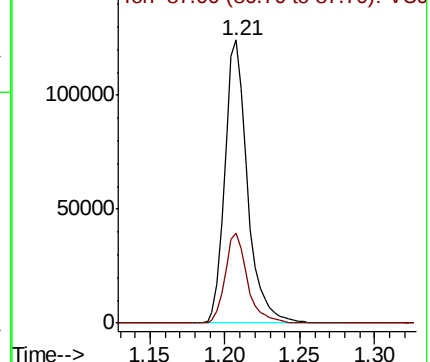
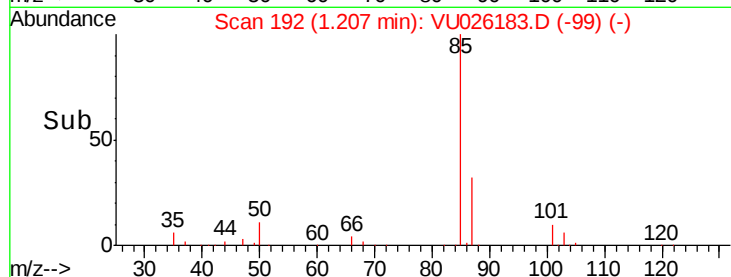
85 100

87 31.2 25.3 37.9



Abundance Ion 85.00 (84.70 to 85.70): VU026183.D (-99) (-)

Ion 87.00 (86.70 to 87.70): VU026183.D (-99) (-)



#3

Chloromethane

Concen: 10.446 ug/L

RT: 1.33 min Scan# 231

Delta R.T. -0.00 min

Lab File: VU026183.D

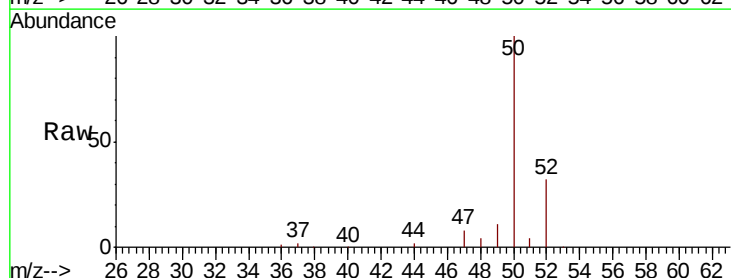
Acq: 17 Aug 2018 16:58

Tgt Ion: 50 Resp: 123310

Ion Ratio Lower Upper

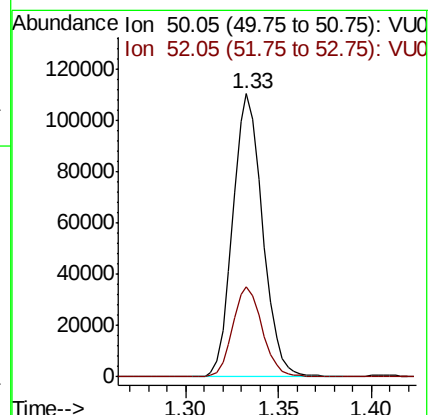
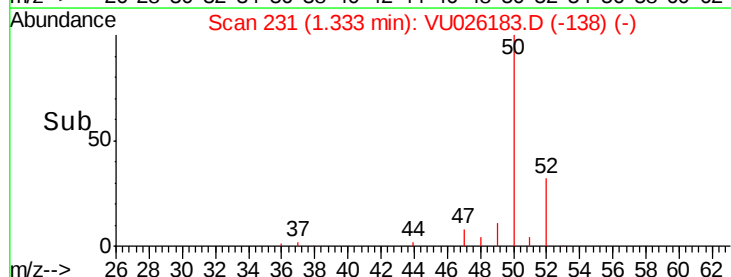
50 100

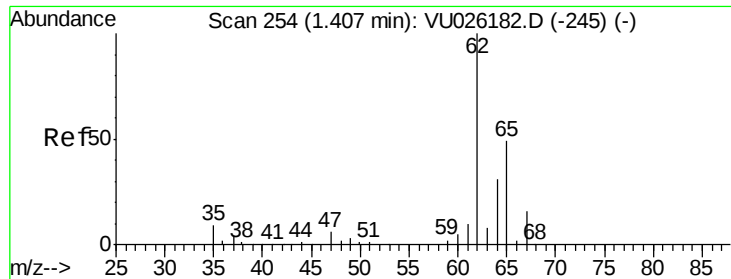
52 31.9 23.1 42.9



Abundance Ion 50.05 (49.75 to 50.75): VU026183.D (-138) (-)

Ion 52.05 (51.75 to 52.75): VU026183.D (-138) (-)





#5

Vinyl chloride

Concen: 9.999 ug/L

RT: 1.41 min Scan# 254

Delta R.T. -0.00 min

Lab File: VU026183.D

Acq: 17 Aug 2018 16:58

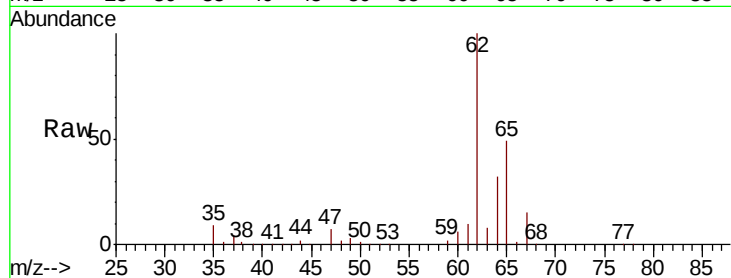
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 62 Resp: 117235

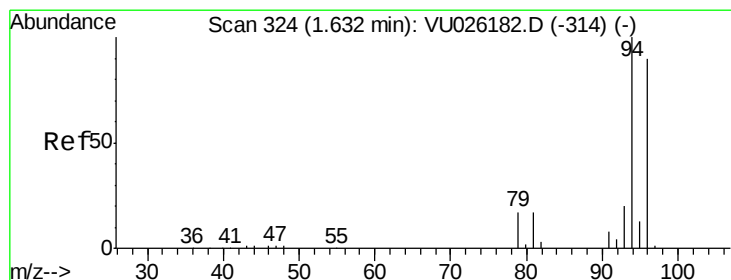
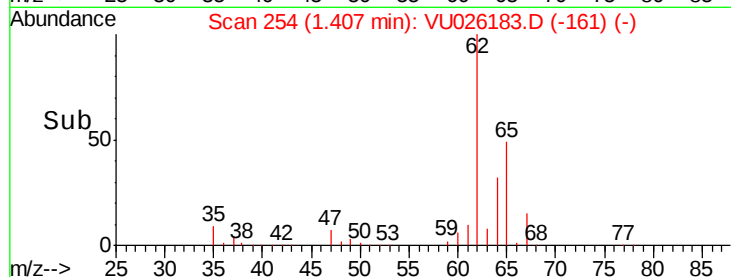
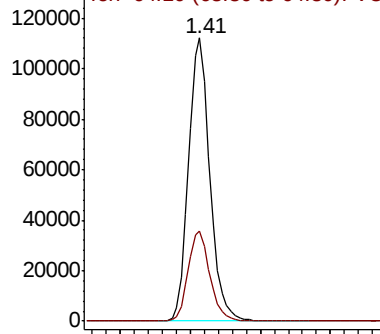
Ion Ratio Lower Upper

62 100

64 31.8 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: 10.621 ug/L

RT: 1.63 min Scan# 324

Delta R.T. -0.00 min

Lab File: VU026183.D

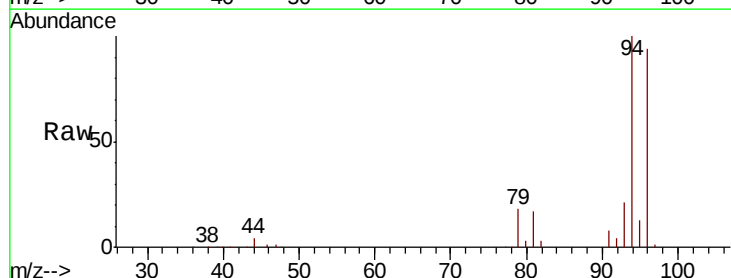
Acq: 17 Aug 2018 16:58

Tgt Ion: 94 Resp: 65040

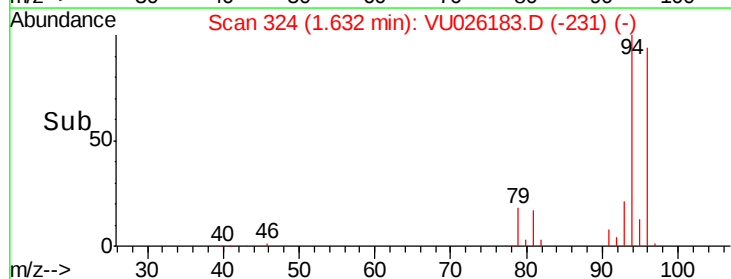
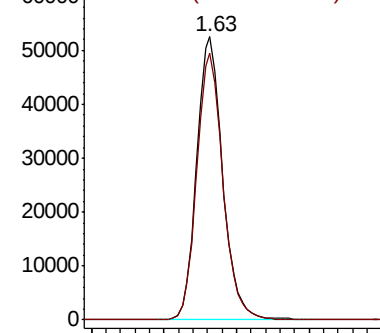
Ion Ratio Lower Upper

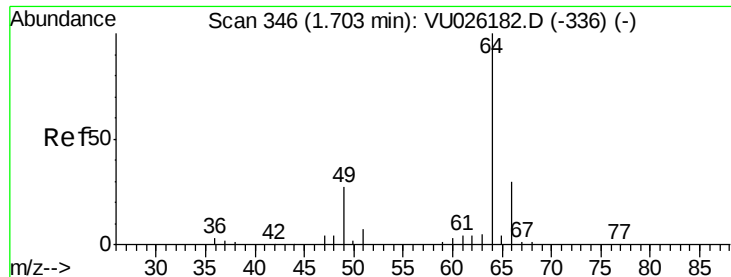
94 100

96 94.2 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: 8.097 ug/L

RT: 1.70 min Scan# 346

Delta R.T. -0.00 min

Lab File: VU026183.D

Acq: 17 Aug 2018 16:58

Instrument :

MSVOA_U

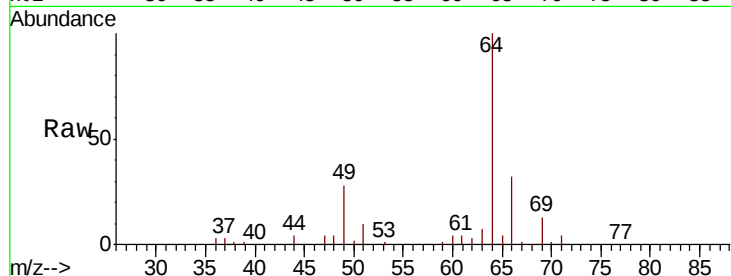
ClientSampled :

Tot Ion: 64 Resp: 66648

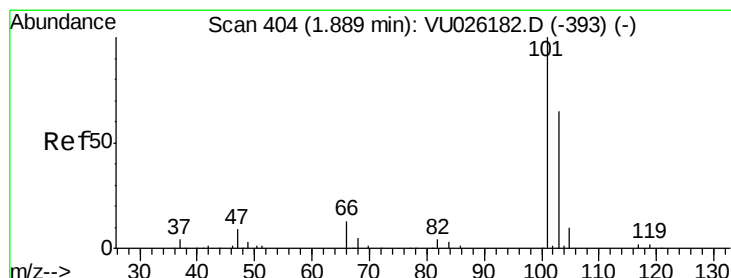
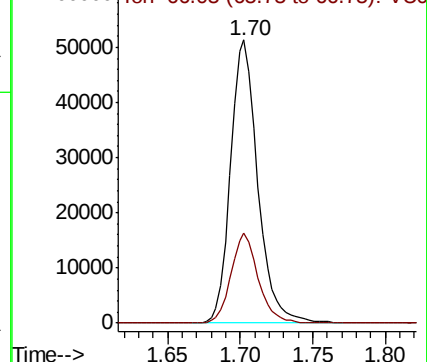
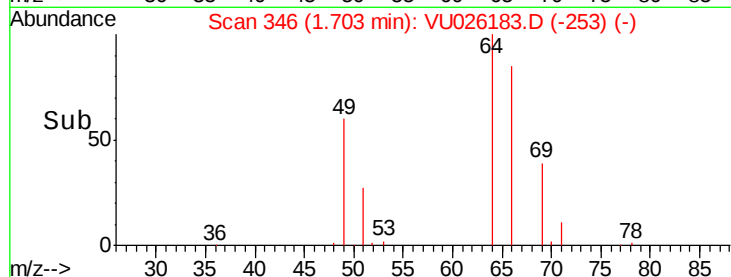
Ion Ratio Lower Upper

64 100

66 31.8 21.1 39.1



Abundance Ion 64.10 (63.80 to 64.80): VU026183.D (-253) (-)



#9

Trichlorofluoromethane

Concen: 10.775 ug/L

RT: 1.89 min Scan# 404

Delta R.T. -0.00 min

Lab File: VU026183.D

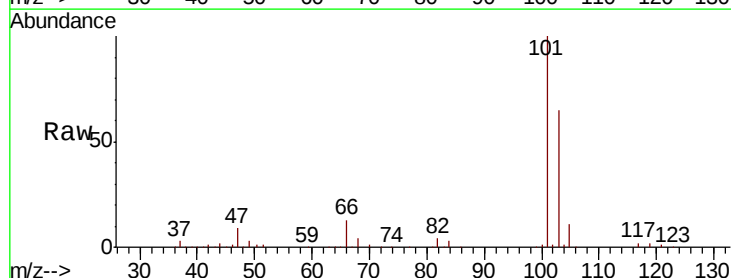
Acq: 17 Aug 2018 16:58

Tgt Ion:101 Resp: 167489

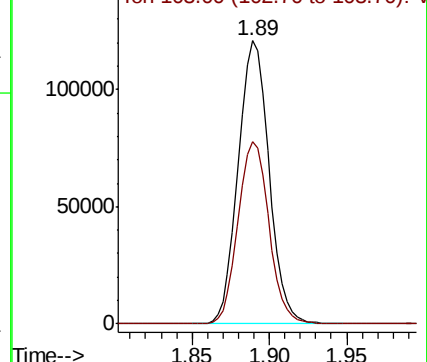
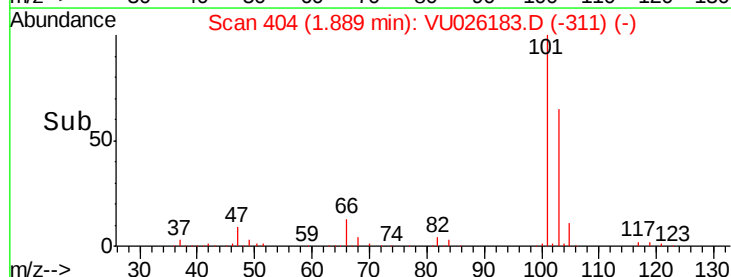
Ion Ratio Lower Upper

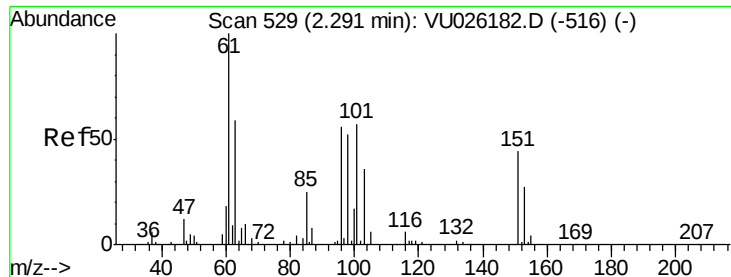
101 100

103 64.5 52.4 78.6



Abundance Ion 101.00 (100.70 to 101.70): VU026183.D (-311) (-)





#10

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

Concen: 9.883 ug/L

RT: 2.29 min Scan# 529

Delta R.T. -0.00 min

Lab File: VU026183.D

Acq: 17 Aug 2018 16:58

Instrument :

MSVOA_U

ClientSampleId :

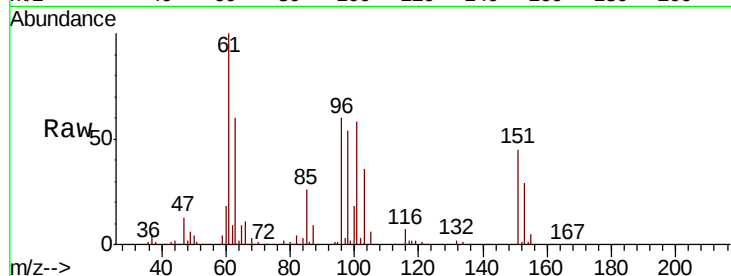
Tot Ion:101 Resp: 91132

Ion Ratio Lower Upper

101 100

85 44.0 36.6 54.8

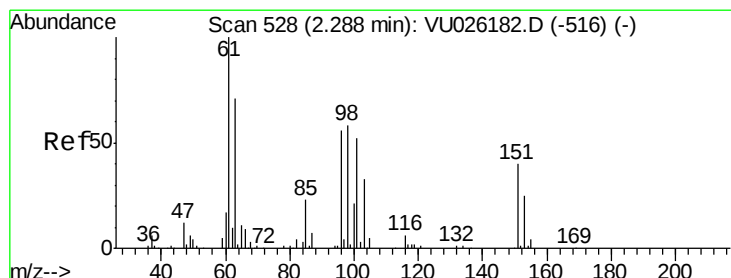
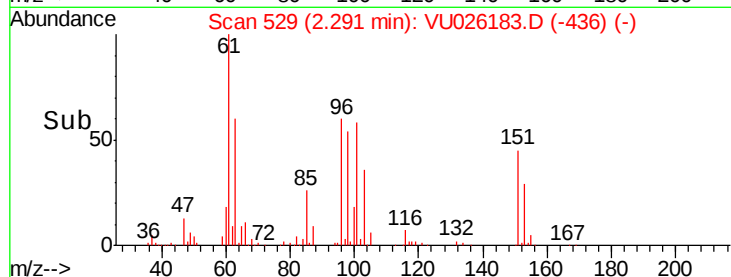
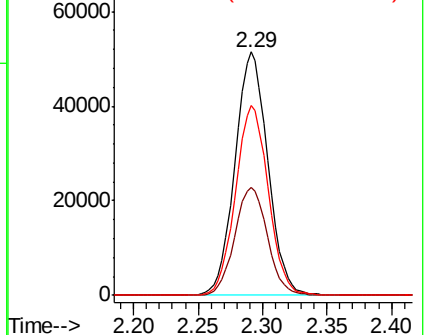
151 77.8 63.4 95.2



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: 9.502 ug/L

RT: 2.29 min Scan# 528

Delta R.T. -0.00 min

Lab File: VU026183.D

Acq: 17 Aug 2018 16:58

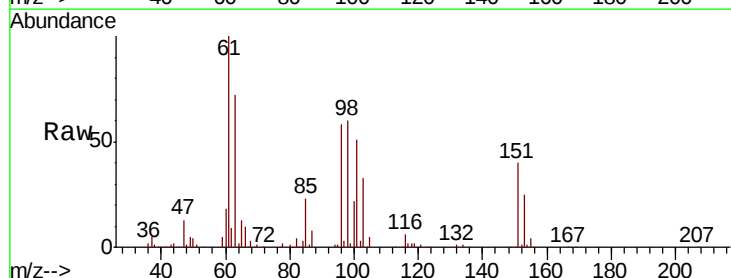
Tgt Ion: 96 Resp: 82461

Ion Ratio Lower Upper

96 100

61 172.7 125.3 232.7

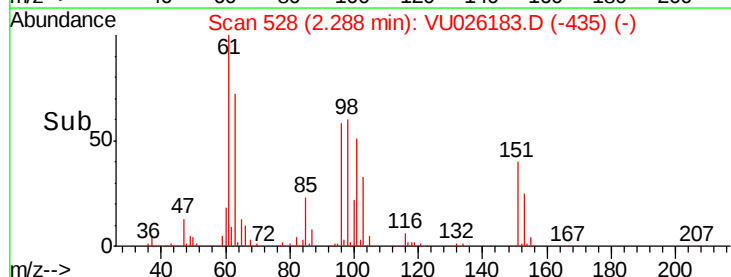
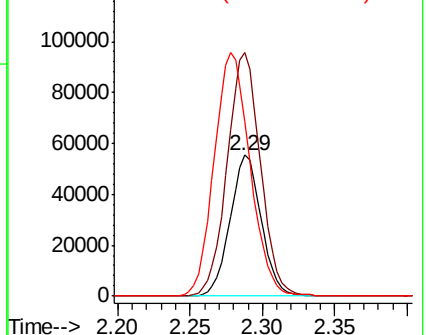
63 123.7 90.9 168.9

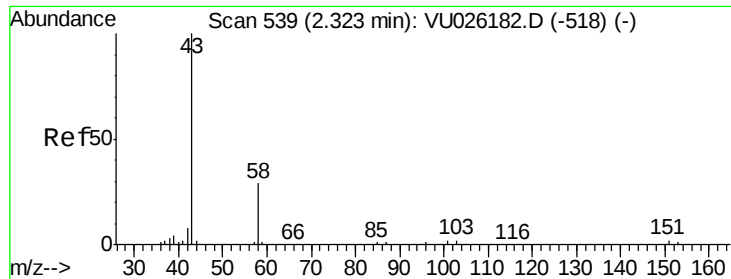


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 89.818 ug/L

RT: 2.32 min Scan# 539

Delta R.T. -0.00 min

Lab File: VU026183.D

Acq: 17 Aug 2018 16:58

Instrument :

MSVOA_U

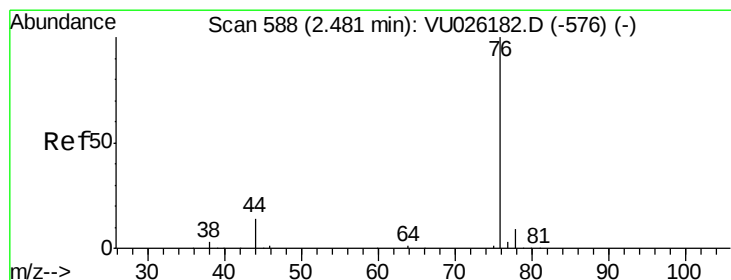
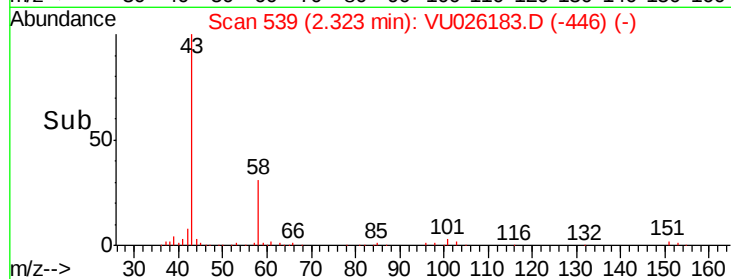
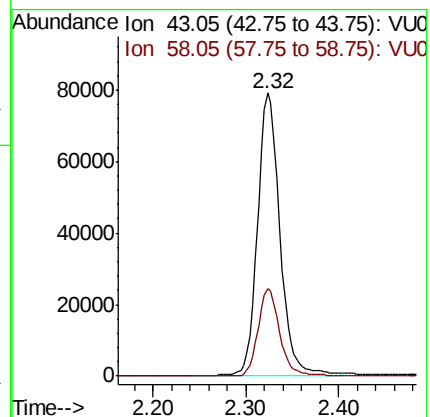
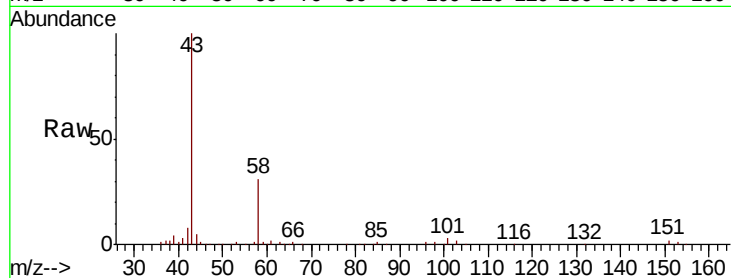
ClientSampled :

Tot Ion: 43 Resp: 133650

Ion Ratio Lower Upper

43 100

58 29.3 0.0 59.0



#14

Carbon disulfide

Concen: 9.854 ug/L

RT: 2.48 min Scan# 588

Delta R.T. -0.00 min

Lab File: VU026183.D

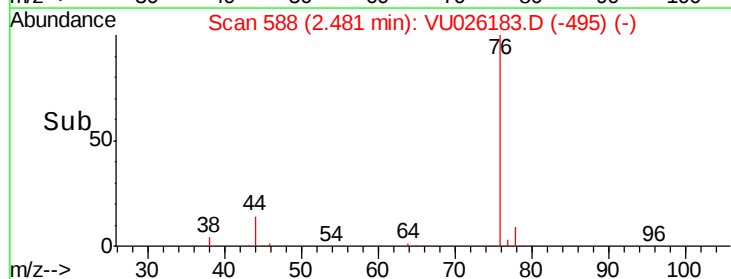
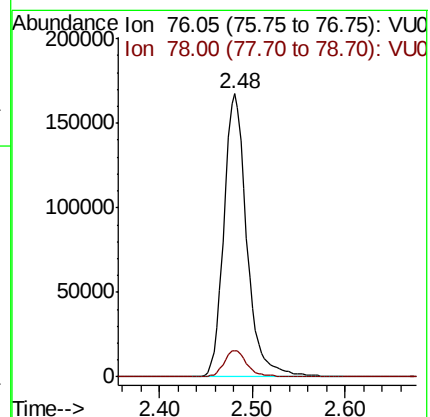
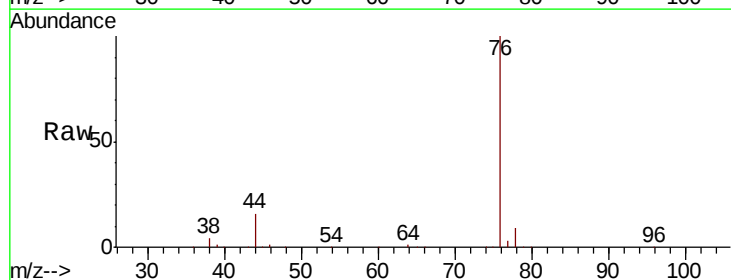
Acq: 17 Aug 2018 16:58

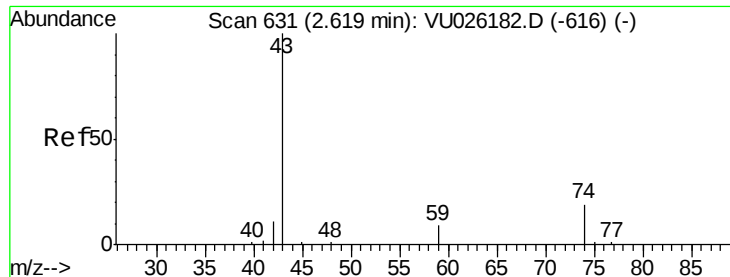
Tgt Ion: 76 Resp: 288062

Ion Ratio Lower Upper

76 100

78 9.4 7.4 11.0





#15

Methyl Acetate

Concen: 8.137 ug/L

RT: 2.62 min Scan# 631

Delta R.T. -0.00 min

Lab File: VU026183.D

Acq: 17 Aug 2018 16:58

Instrument :

MSVOA_U

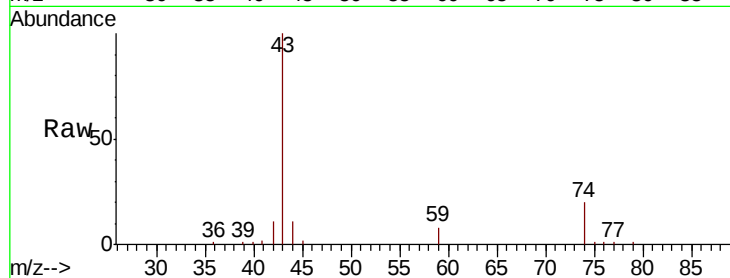
ClientSampled :

Tot Ion: 43 Resp: 36843

Ion Ratio Lower Upper

43 100

74 21.5 16.6 24.8



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0

2.62

25000

20000

15000

10000

5000

0

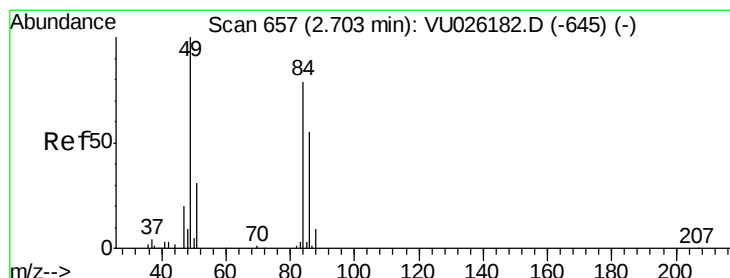
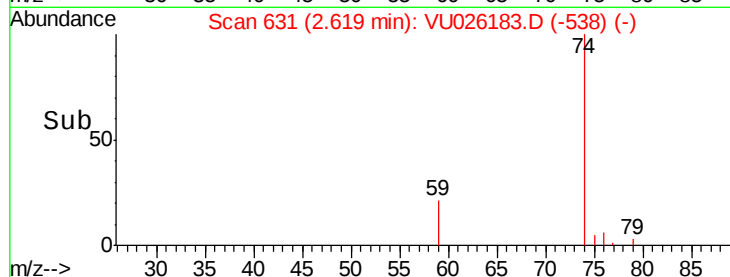
Time-->

2.55

2.60

2.65

2.70



#16

Methylene chloride

Concen: 9.268 ug/L

RT: 2.70 min Scan# 657

Delta R.T. -0.00 min

Lab File: VU026183.D

Acq: 17 Aug 2018 16:58

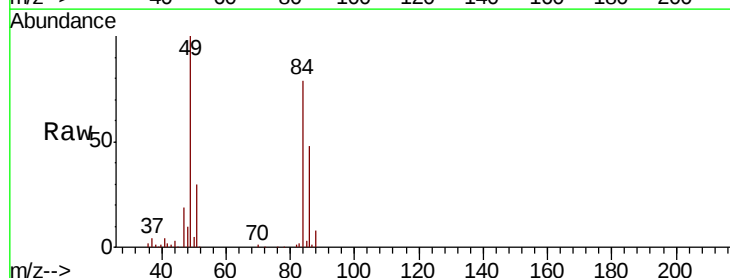
Tgt Ion: 84 Resp: 91577

Ion Ratio Lower Upper

84 100

86 61.6 48.6 90.2

49 127.3 89.0 165.4



Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0

80000

60000

40000

20000

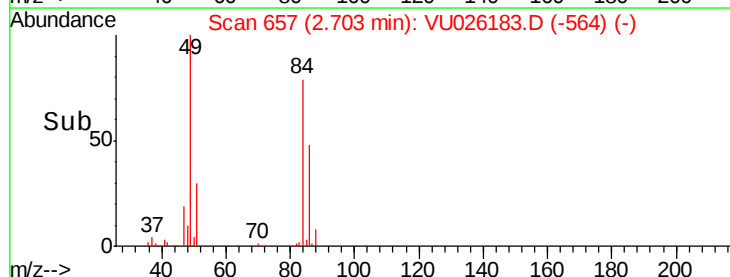
0

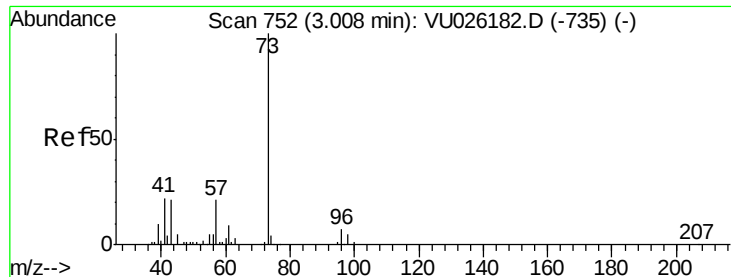
Time-->

2.60

2.70

2.80

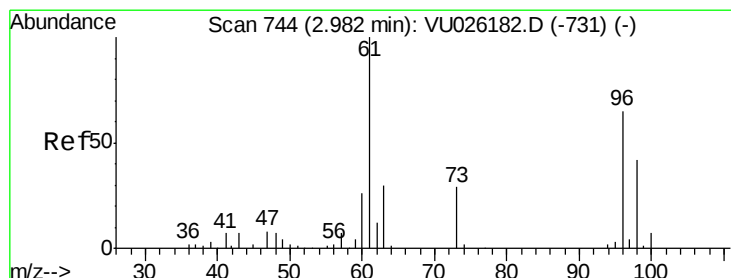
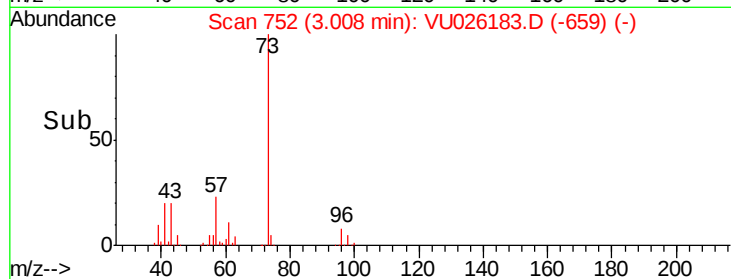
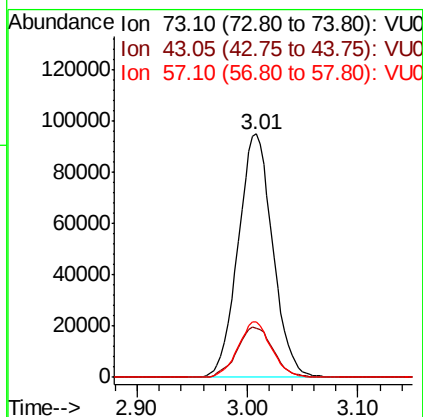
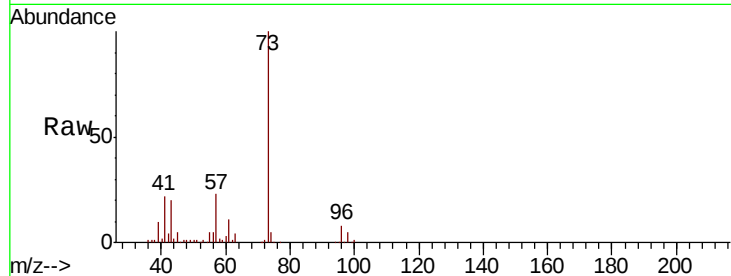




#17
Methvl tert-butvl Ether
Concen: 9.826 ug/L
RT: 3.01 min Scan# 752
Delta R.T. -0.00 min
Lab File: VU026183.D
Acq: 17 Aug 2018 16:58

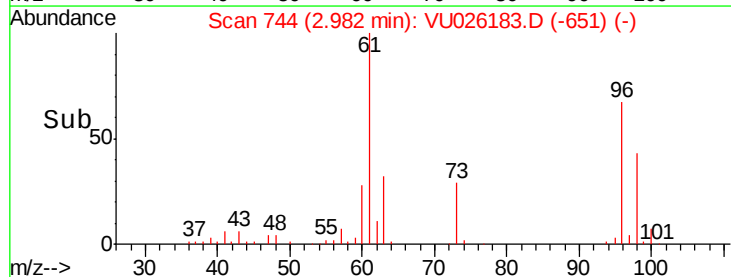
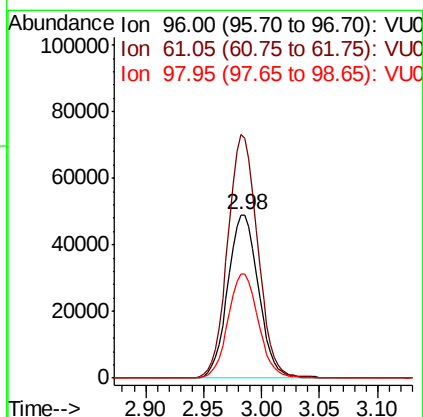
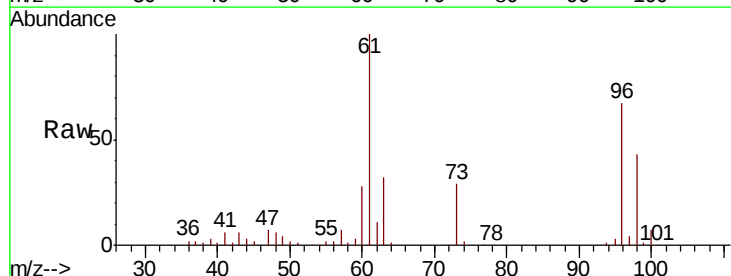
Instrument :
MSVOA_U
ClientSampleId :

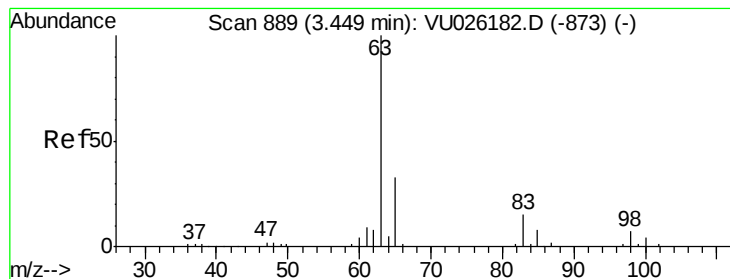
Tot Ion: 73 Resp: 206193
Ion Ratio Lower Upper
73 100
43 21.1 18.2 27.2
57 22.1 17.5 26.3



#18
trans-1,2-Dichloroethene
Concen: 9.665 ug/L
RT: 2.98 min Scan# 744
Delta R.T. -0.00 min
Lab File: VU026183.D
Acq: 17 Aug 2018 16:58

Tgt Ion: 96 Resp: 90572
Ion Ratio Lower Upper
96 100
61 149.0 107.0 198.6
98 63.5 44.4 82.5





#19

1,1-Dichloroethane

Concen: 9.678 ug/L

RT: 3.45 min Scan# 889

Delta R.T. -0.00 min

Lab File: VU026183.D

Acq: 17 Aug 2018 16:58

Instrument :

MSVOA_U

ClientSampleId :

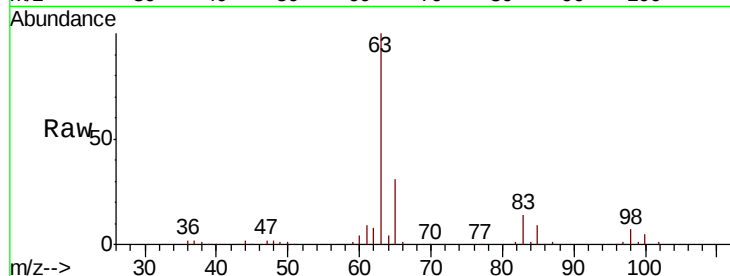
Tot Ion: 63 Resp: 173141

Ion Ratio Lower Upper

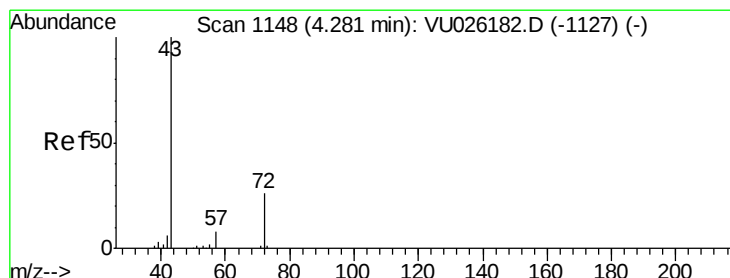
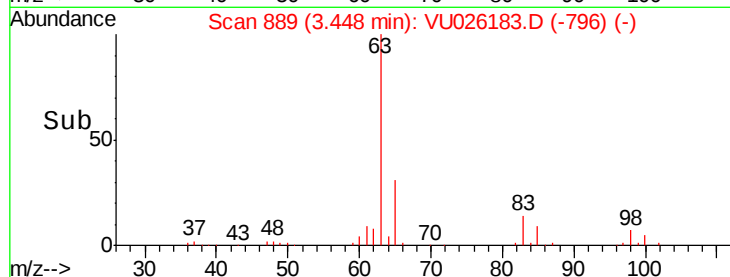
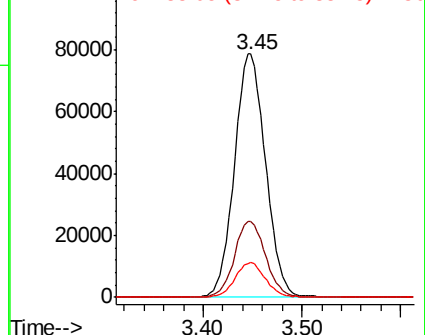
63 100

65 31.2 23.2 43.0

83 14.2 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: 98.196 ug/L

RT: 4.28 min Scan# 1148

Delta R.T. -0.00 min

Lab File: VU026183.D

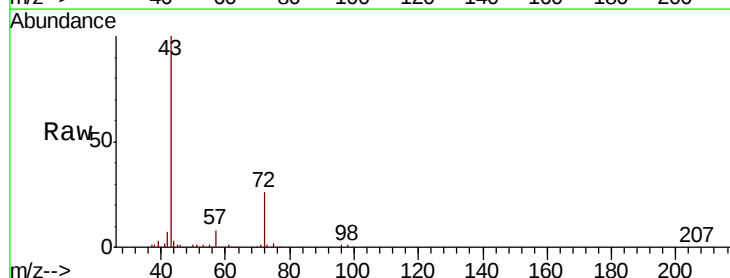
Acq: 17 Aug 2018 16:58

Tgt Ion: 43 Resp: 254470

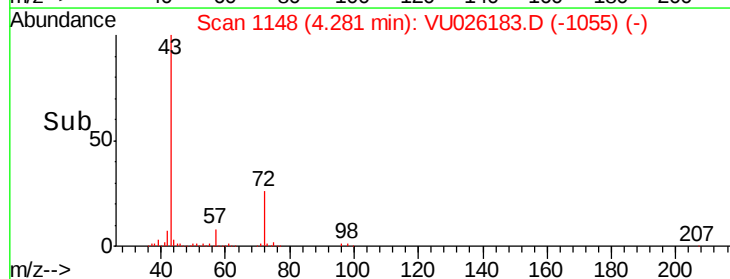
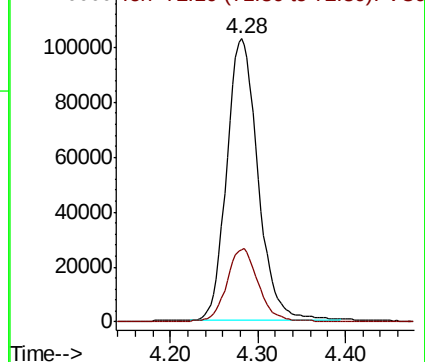
Ion Ratio Lower Upper

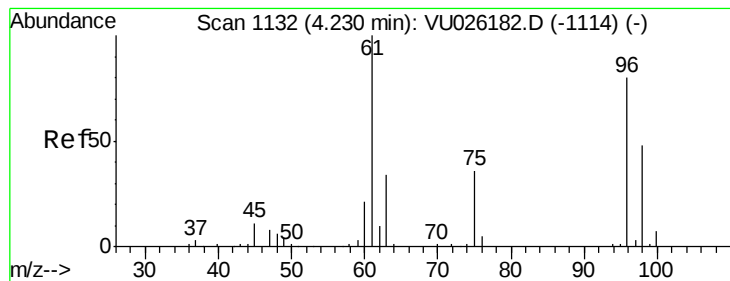
43 100

72 26.7 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: 10.717 ug/L

RT: 4.23 min Scan# 1131

Delta R.T. -0.00 min

Lab File: VU026183.D

Acq: 17 Aug 2018 16:58

Instrument :
MSVOA_U
ClientSampleId :

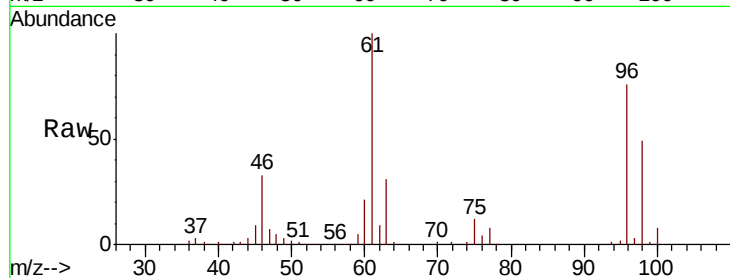
Tot Ion: 96 Resp: 113549

Ion Ratio Lower Upper

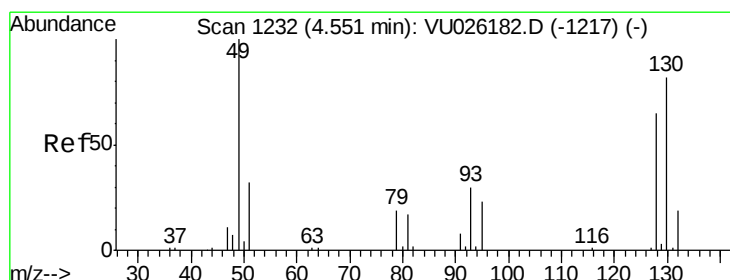
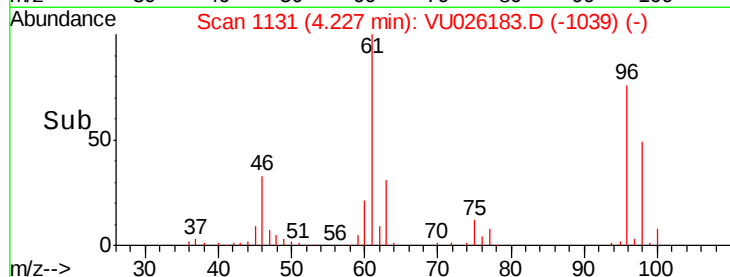
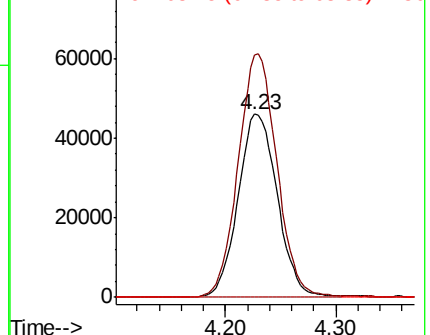
96 100

61 132.1 87.1 161.7

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: 10.721 ug/L

RT: 4.55 min Scan# 1233

Delta R.T. 0.00 min

Lab File: VU026183.D

Acq: 17 Aug 2018 16:58

Tgt Ion:128 Resp: 50507

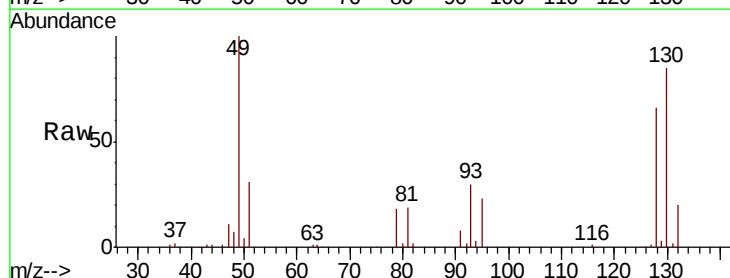
Ion Ratio Lower Upper

128 100

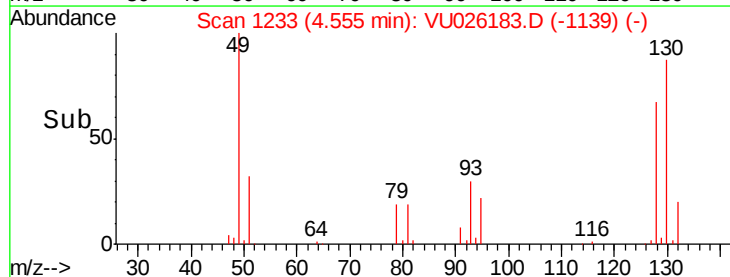
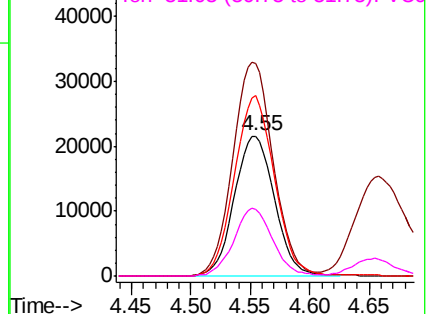
49 152.3 107.6 199.8

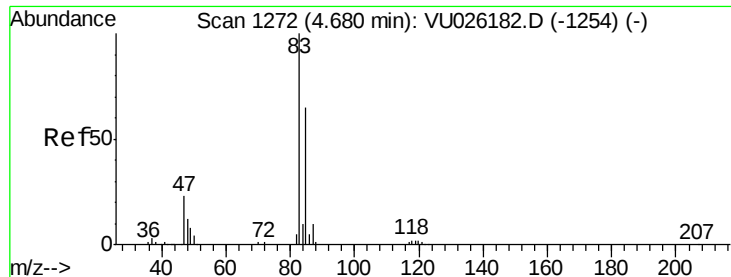
130 128.8 88.2 163.8

51 47.7 39.2 58.8



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: 11.579 ug/L

RT: 4.68 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VU026183.D

Acq: 17 Aug 2018 16:58

Instrument :

MSVOA_U

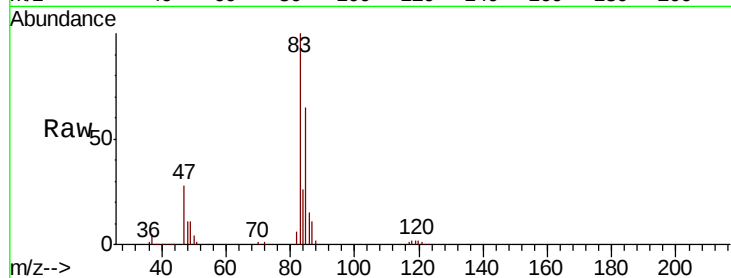
ClientSampleId :

Tot Ion: 83 Resp: 214634

Ion Ratio Lower Upper

83 100

85 64.7 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

100000

80000

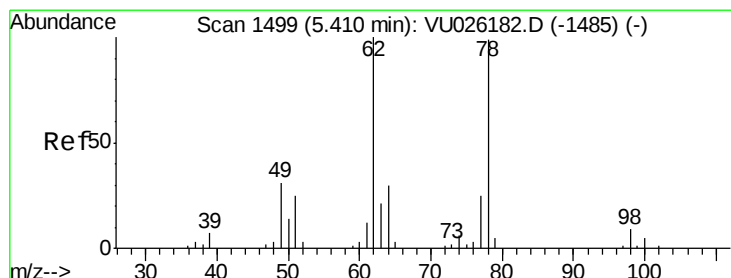
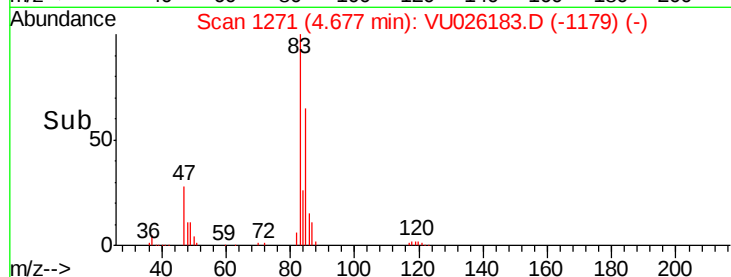
60000

40000

20000

0

Time-->



#27

1,2-Dichloroethane

Concen: 11.299 ug/L

RT: 5.41 min Scan# 1499

Delta R.T. -0.00 min

Lab File: VU026183.D

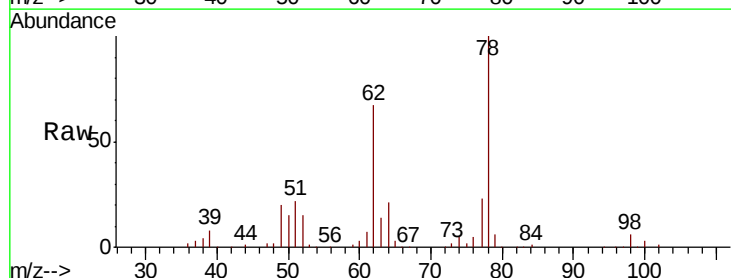
Acq: 17 Aug 2018 16:58

Tgt Ion: 62 Resp: 126126

Ion Ratio Lower Upper

62 100

98 8.7 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

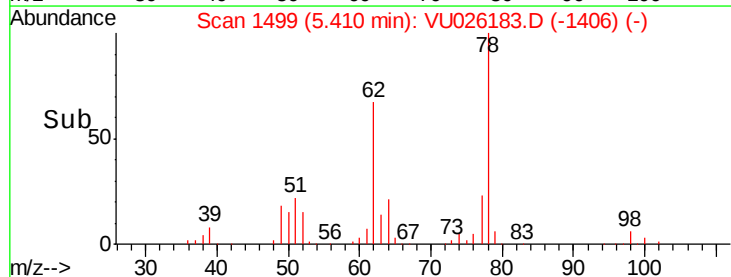
60000

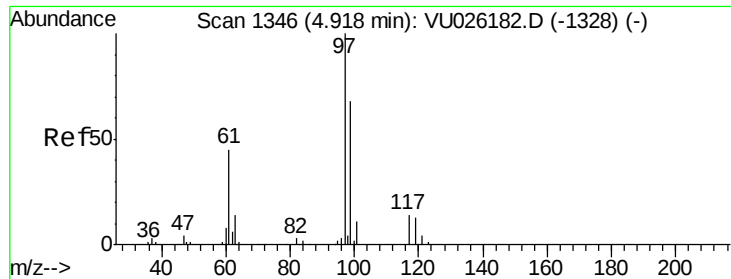
40000

20000

0

Time-->

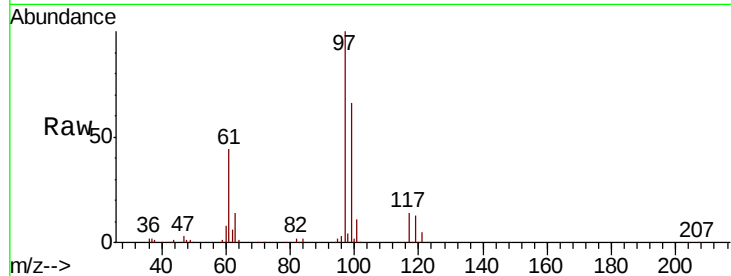




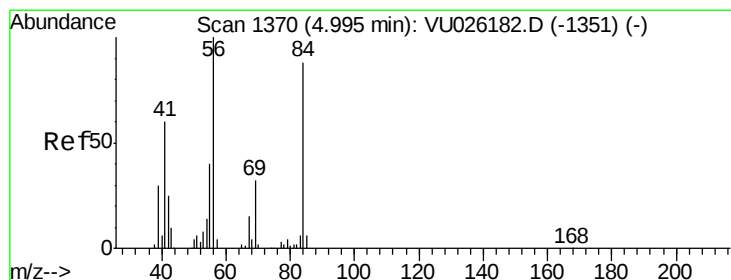
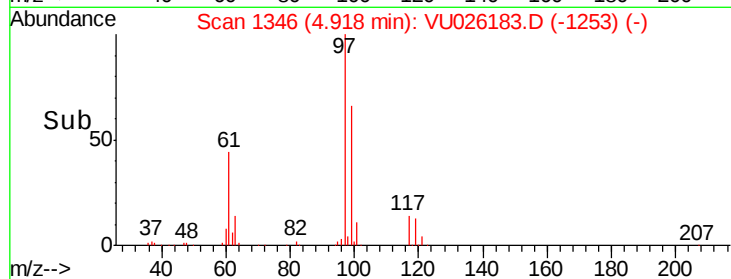
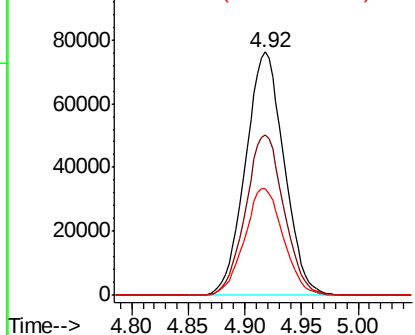
#29
 1,1,1-Trichloroethane
 Concen: 11.452 ug/L
 RT: 4.92 min Scan# 1346
 Delta R.T. -0.00 min
 Lab File: VU026183.D
 Acq: 17 Aug 2018 16:58

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
97	100		
99	65.4	52.3	78.5
61	44.1	35.0	52.6

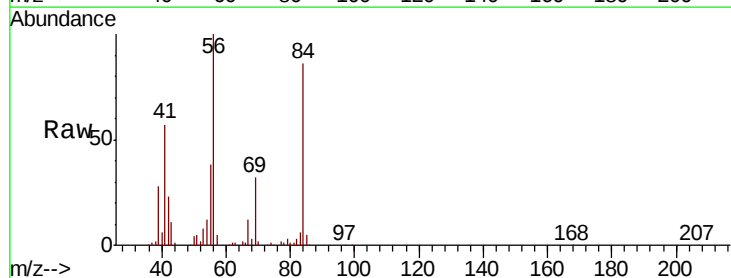


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

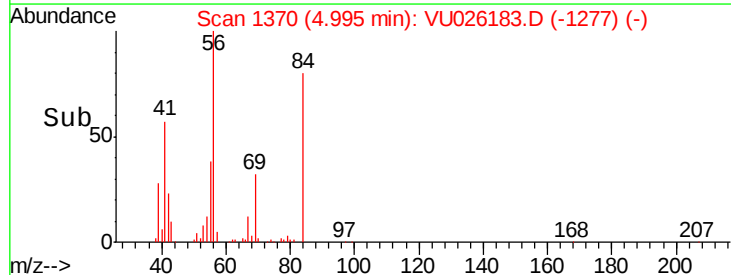
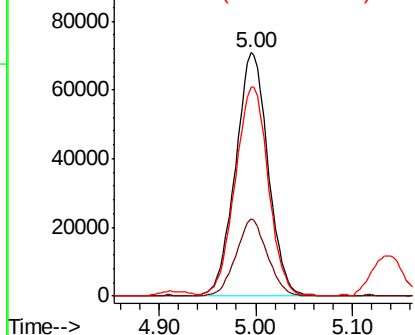


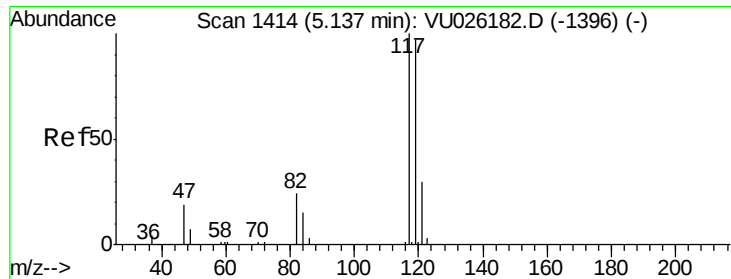
#30
 Cyclohexane
 Concen: 10.203 ug/L
 RT: 5.00 min Scan# 1370
 Delta R.T. -0.00 min
 Lab File: VU026183.D
 Acq: 17 Aug 2018 16:58

Tgt Ion	Ratio	Lower	Upper
56	100		
69	30.5	24.2	36.2
84	86.9	69.3	103.9



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: 12.371 ug/L

RT: 5.14 min Scan# 1414

Delta R.T. -0.00 min

Lab File: VU026183.D

Acq: 17 Aug 2018 16:58

Instrument :

MSVOA_U

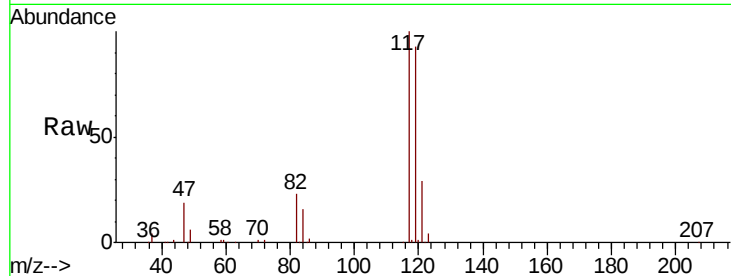
ClientSampleId :

Tot Ion:117 Resp: 171292

Ion Ratio Lower Upper

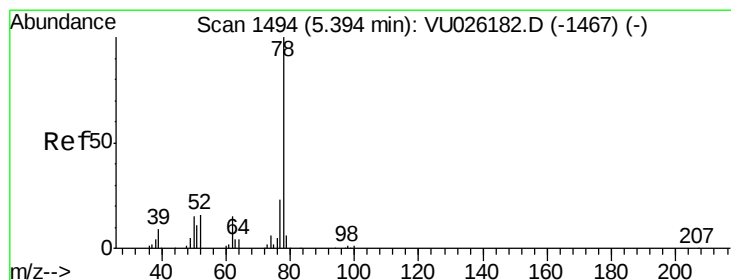
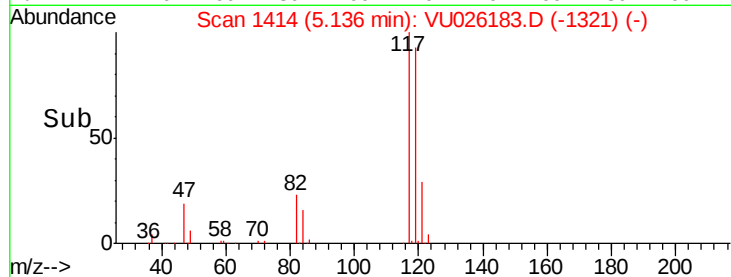
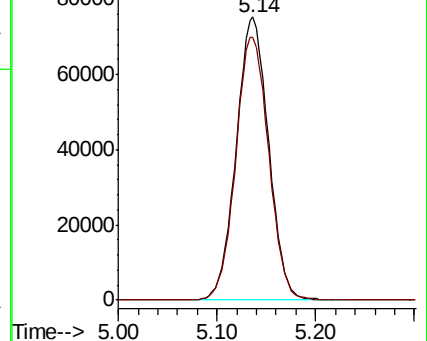
117 100

119 94.8 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: 10.096 ug/L

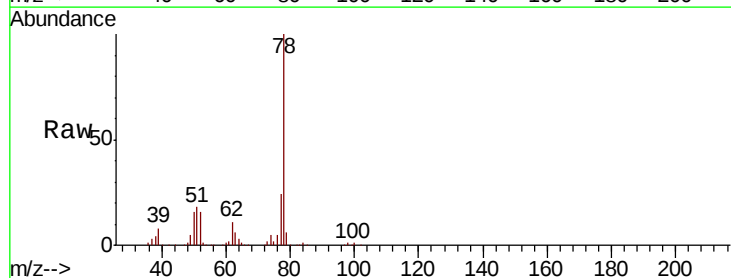
RT: 5.39 min Scan# 1493

Delta R.T. -0.00 min

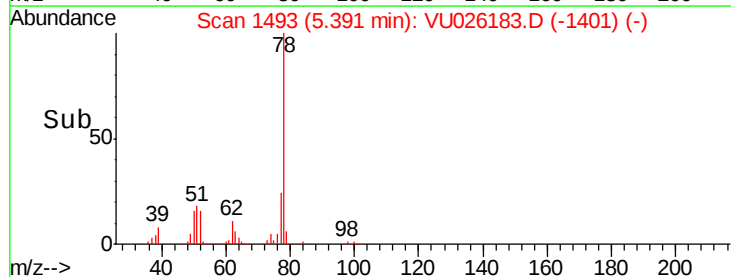
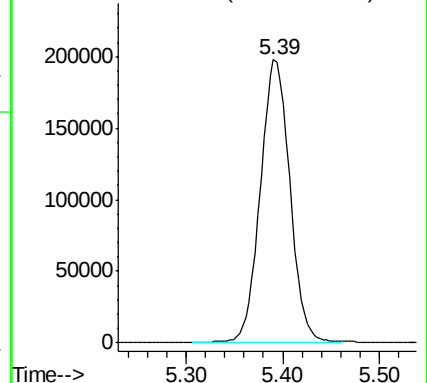
Lab File: VU026183.D

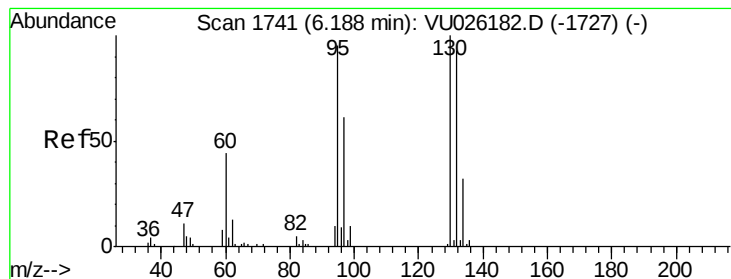
Acq: 17 Aug 2018 16:58

Tgt Ion: 78 Resp: 422032



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 10.331 ug/L

RT: 6.19 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VU026183.D

Acq: 17 Aug 2018 16:58

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 95 Resp: 113596

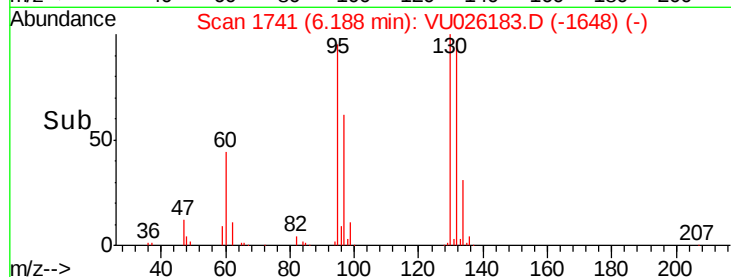
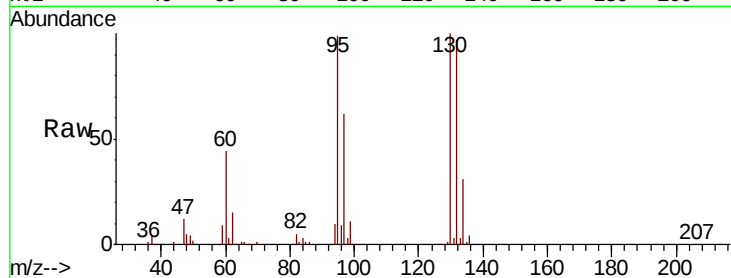
Ion Ratio Lower Upper

95 100

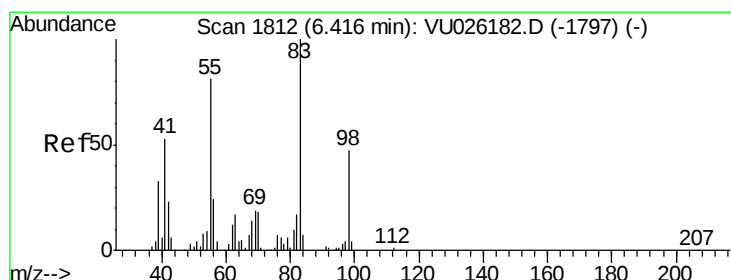
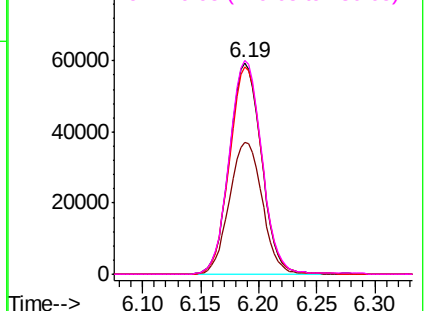
97 62.6 44.9 83.5

132 97.8 68.2 126.6

130 100.9 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: 10.574 ug/L

RT: 6.42 min Scan# 1812

Delta R.T. -0.00 min

Lab File: VU026183.D

Acq: 17 Aug 2018 16:58

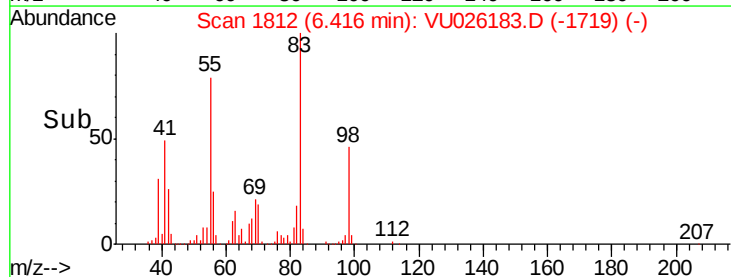
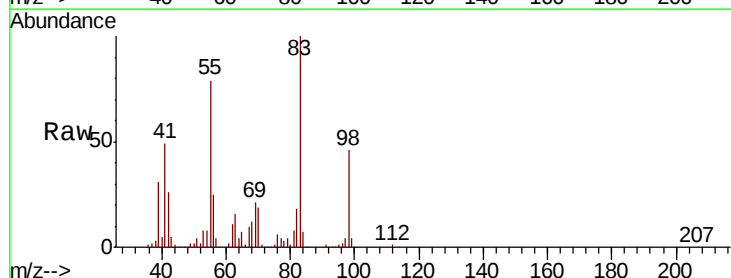
Tgt Ion: 83 Resp: 178525

Ion Ratio Lower Upper

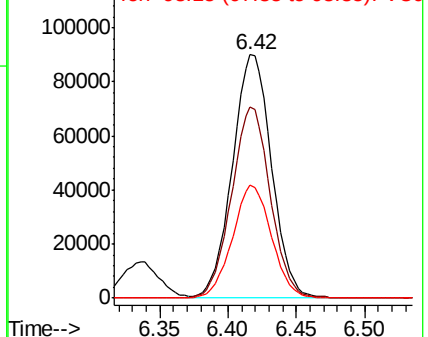
83 100

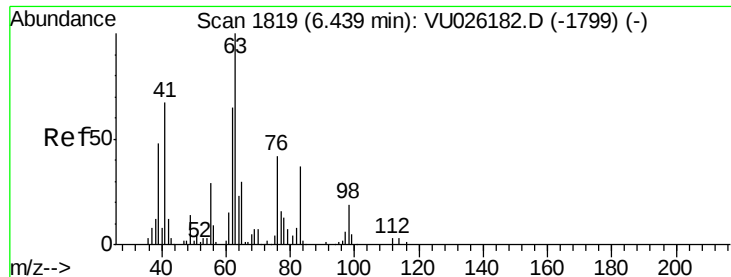
55 78.0 65.0 97.4

98 46.6 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: 10.197 ug/L

RT: 6.44 min Scan# 1818

Delta R.T. -0.00 min

Lab File: VU026183.D

Acq: 17 Aug 2018 16:58

Instrument :

MSVOA_U

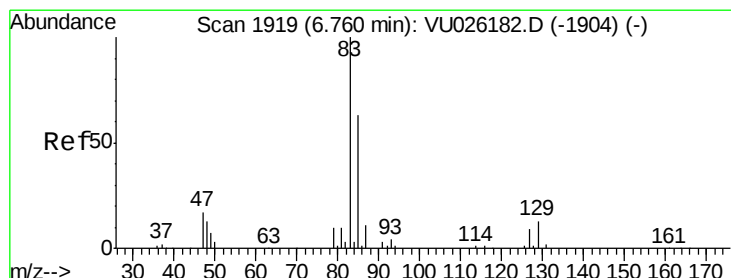
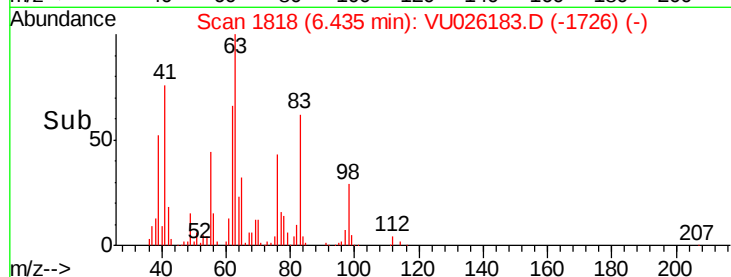
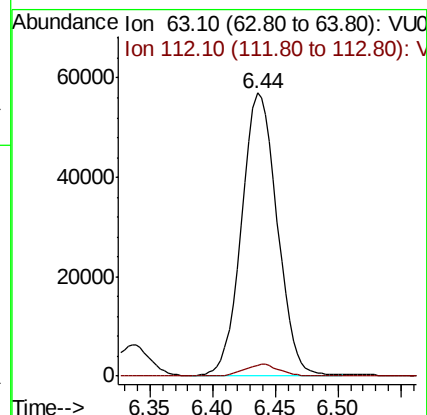
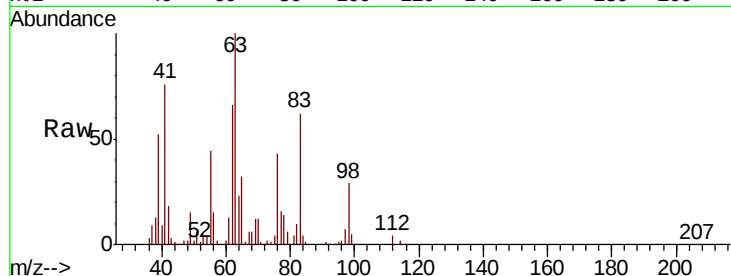
ClientSampleId :

Tot Ion: 63 Resp: 111982

Ion Ratio Lower Upper

63 100

112 4.1 1.4 2.2#



#38

Bromodichloromethane

Concen: 11.189 ug/L

RT: 6.76 min Scan# 1919

Delta R.T. -0.00 min

Lab File: VU026183.D

Acq: 17 Aug 2018 16:58

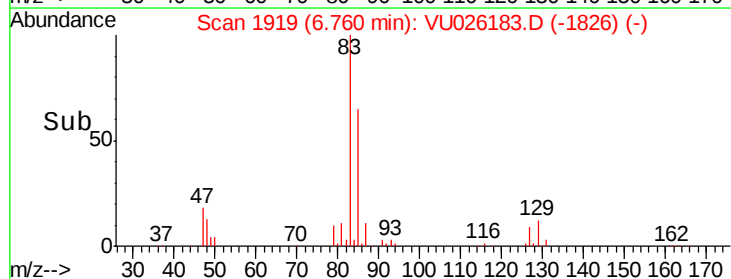
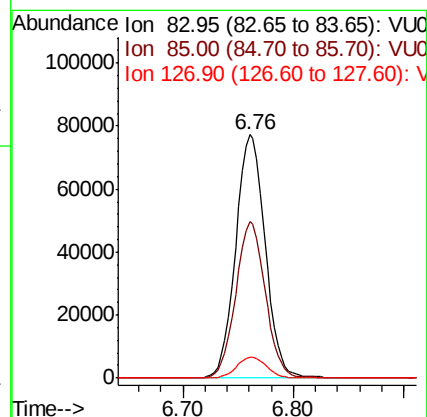
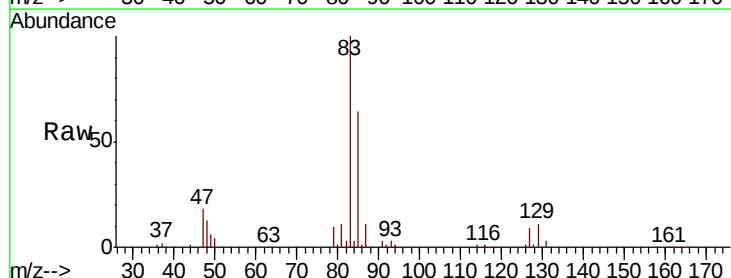
Tgt Ion: 83 Resp: 143186

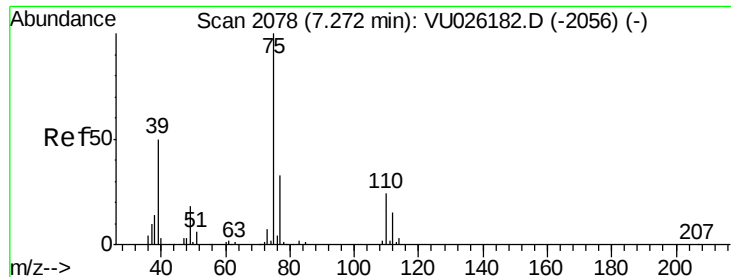
Ion Ratio Lower Upper

83 100

85 64.4 44.2 82.0

127 8.8 7.6 11.4





#39

cis-1,3-Dichloropropene

Concen: 11.562 ug/L

RT: 7.27 min Scan# 2079

Delta R.T. 0.00 min

Lab File: VU026183.D

Acq: 17 Aug 2018 16:58

Instrument :

MSVOA_U

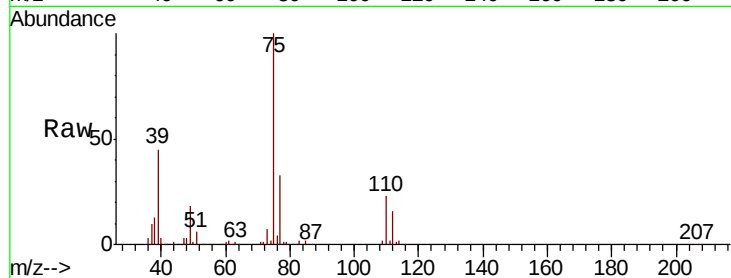
ClientSampleId :

Tot Ion: 75 Resp: 158168

Ion Ratio Lower Upper

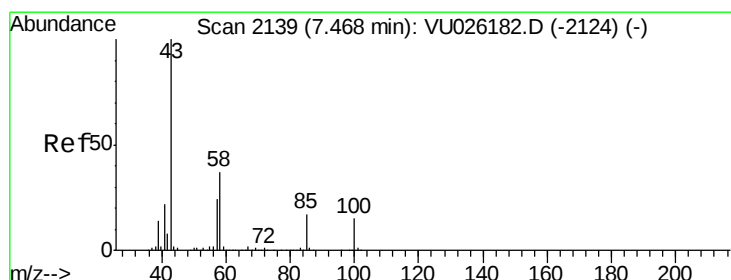
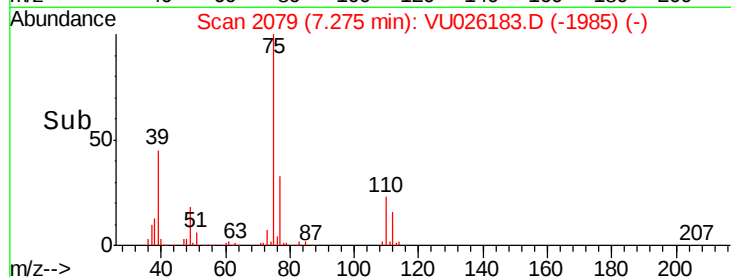
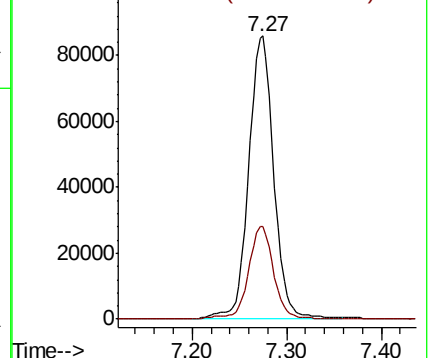
75 100

77 32.6 23.3 43.3



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0



#40

4-Methyl-2-pentanone

Concen: 104.085 ug/L

RT: 7.47 min Scan# 2139

Delta R.T. -0.00 min

Lab File: VU026183.D

Acq: 17 Aug 2018 16:58

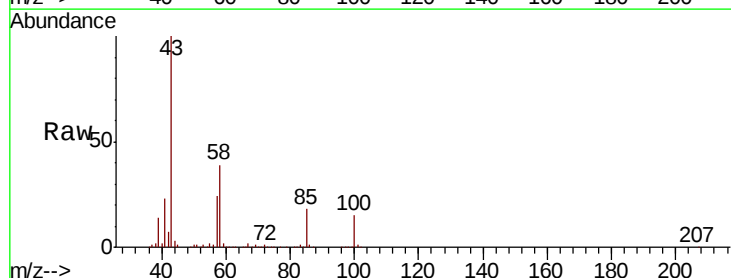
Tgt Ion: 43 Resp: 625878

Ion Ratio Lower Upper

43 100

58 38.4 29.8 44.8

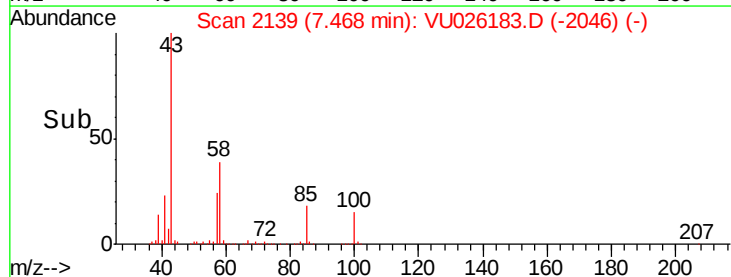
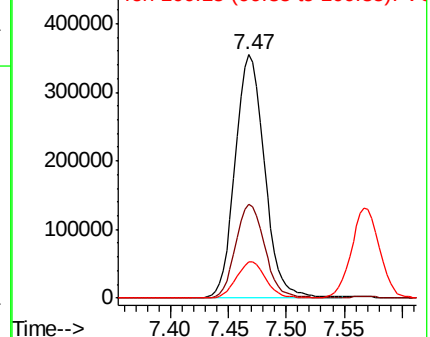
100 14.8 11.6 17.4

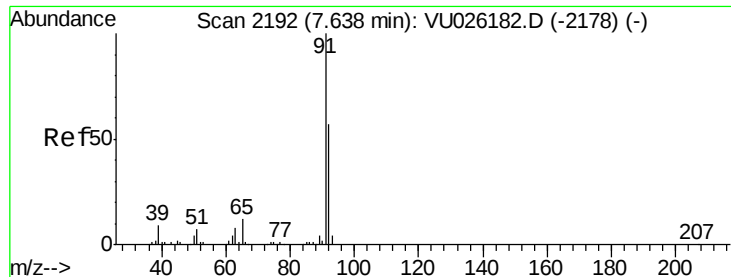


Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

Ion 100.15 (99.85 to 100.85): VU0





#42

Toluene

Concen: 10.750 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU026183.D

Acq: 17 Aug 2018 16:58

Instrument :

MSVOA_U

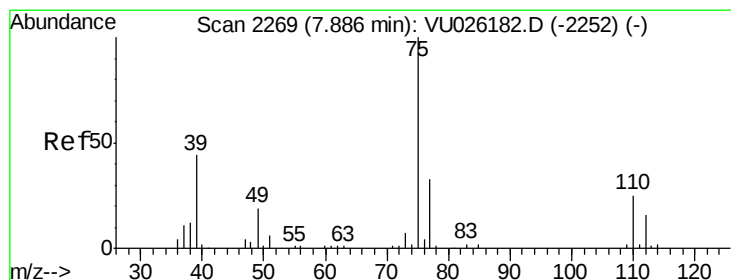
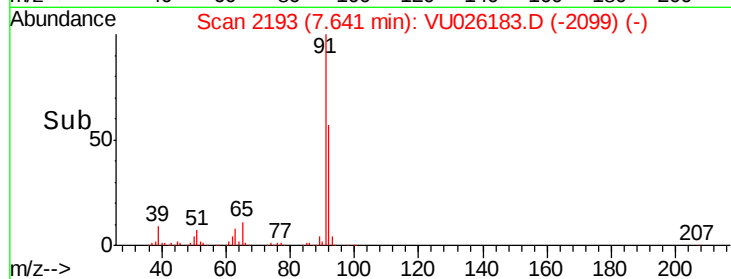
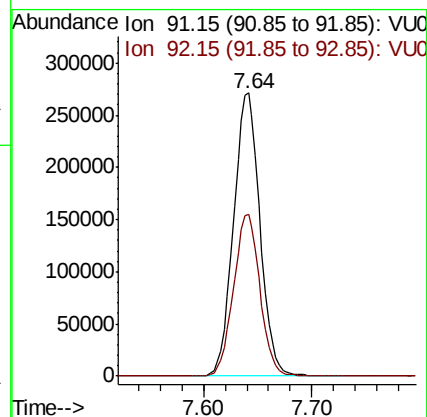
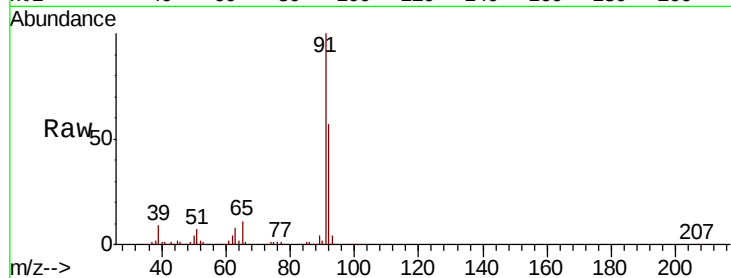
ClientSampleId :

Tot Ion: 91 Resp: 462267

Ion Ratio Lower Upper

91 100

92 57.3 40.0 74.4



#44

trans-1,3-Dichloropropene

Concen: 12.136 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. -0.00 min

Lab File: VU026183.D

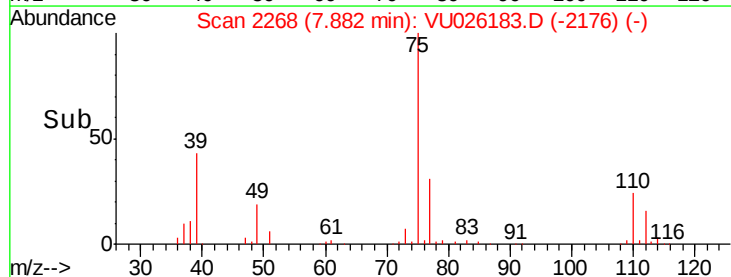
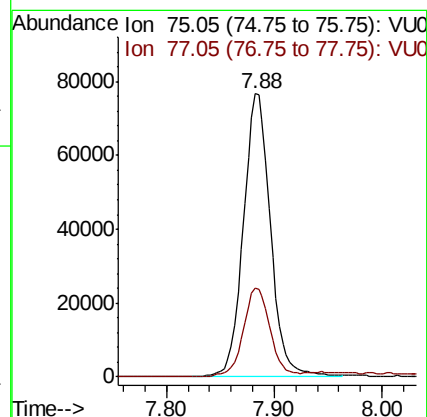
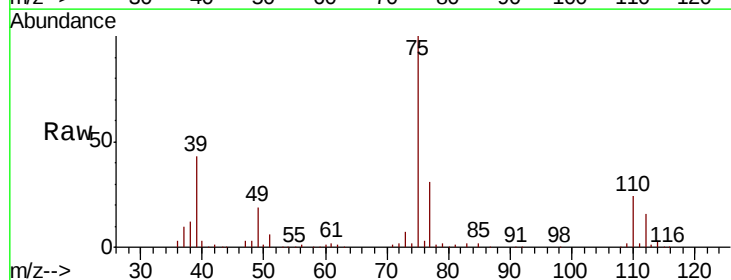
Acq: 17 Aug 2018 16:58

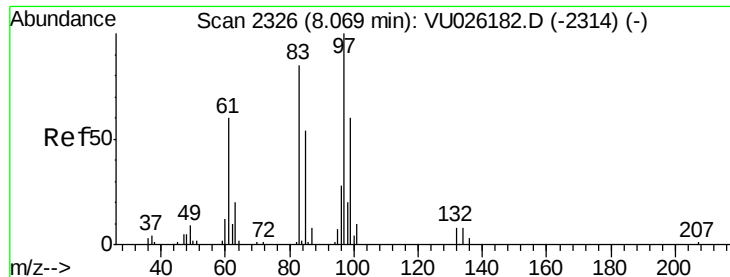
Tgt Ion: 75 Resp: 134689

Ion Ratio Lower Upper

75 100

77 31.4 22.7 42.3

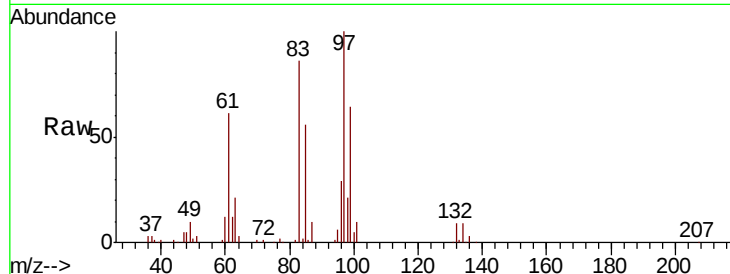




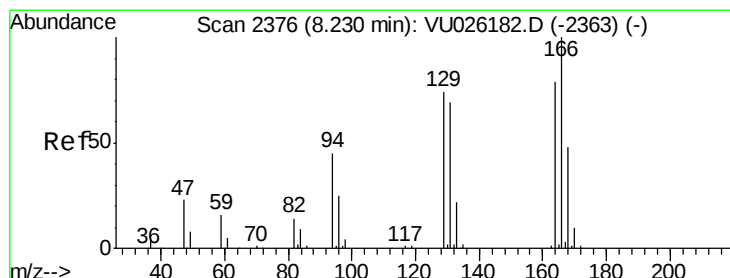
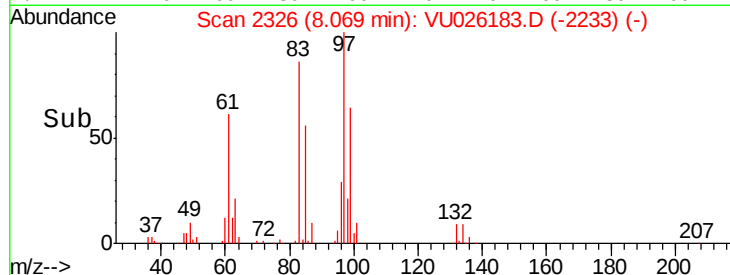
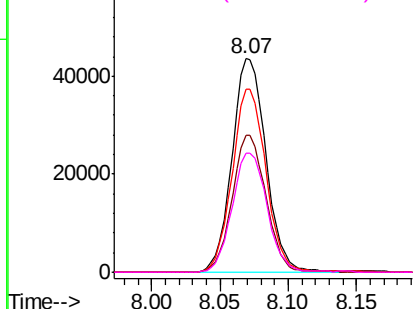
#45
1,1,2-Trichloroethane
Concen: 10.243 ug/L
RT: 8.07 min Scan# 2326
Delta R.T. -0.00 min
Lab File: VU026183.D
Acq: 17 Aug 2018 16:58

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:	97	Resp:	75307
Ion	Ratio	Lower	Upper
97	100		
99	64.0	42.1	78.3
83	85.5	59.2	110.0
85	55.6	37.9	70.3

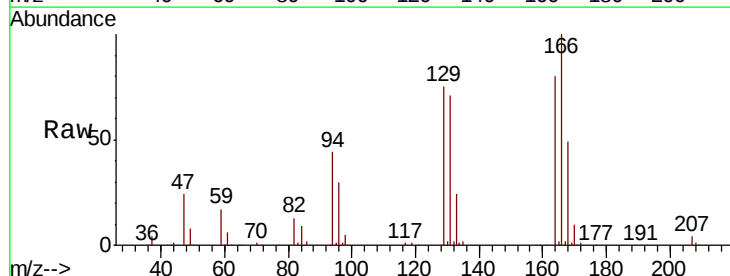


Abundance Ion 96.95 (96.65 to 97.65): VU0
Ion 99.05 (98.75 to 99.75): VU0
Ion 82.95 (82.65 to 83.65): VU0
Ion 85.00 (84.70 to 85.70): VU0

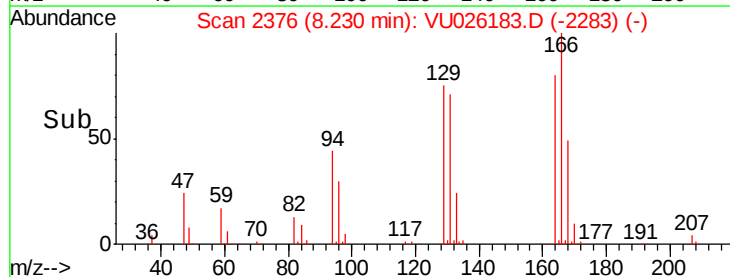
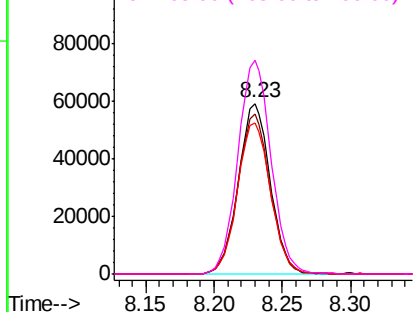


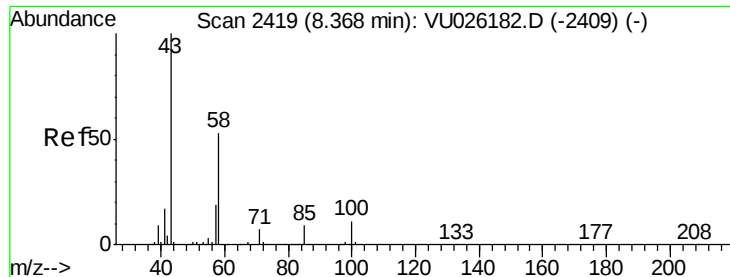
#47
Tetrachloroethene
Concen: 10.591 ug/L
RT: 8.23 min Scan# 2376
Delta R.T. -0.00 min
Lab File: VU026183.D
Acq: 17 Aug 2018 16:58

Tgt Ion:	164	Resp:	96585
Ion	Ratio	Lower	Upper
164	100		
129	93.9	66.1	122.8
131	88.8	61.4	114.0
166	125.2	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

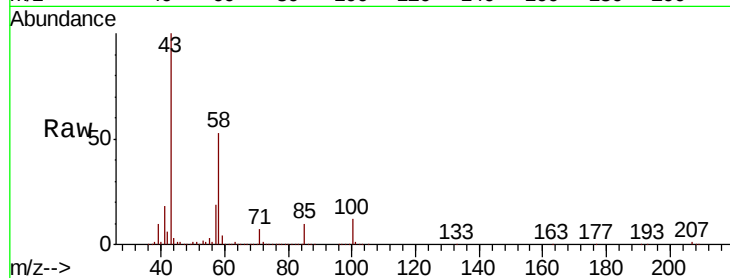




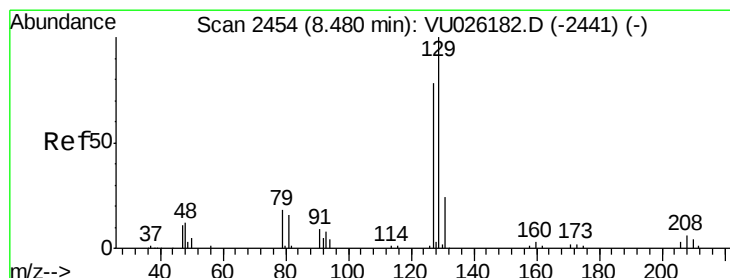
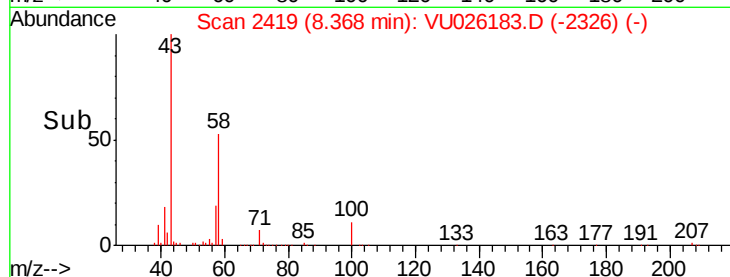
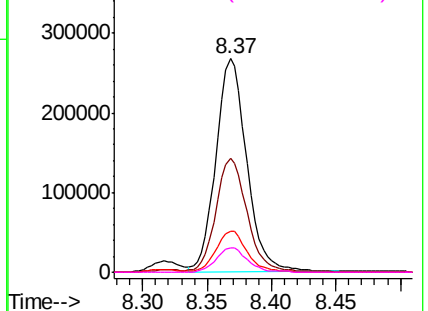
#48
2-Hexanone
Concen: 102.037 ug/L
RT: 8.37 min Scan# 2419
Delta R.T. -0.00 min
Lab File: VU026183.D
Acq: 17 Aug 2018 16:58

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:	43	Resp:	441237
Ion	Ratio	Lower	Upper
43	100		
58	54.1	43.1	64.7
57	19.3	15.4	23.0
100	11.7	9.4	14.0

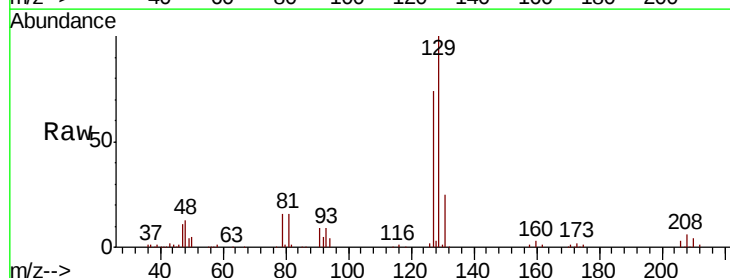


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

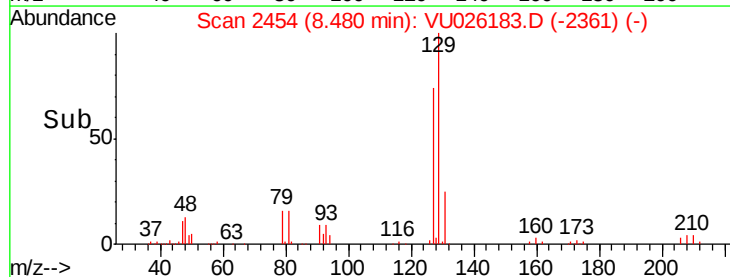
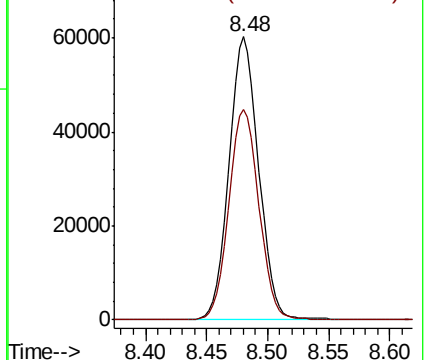


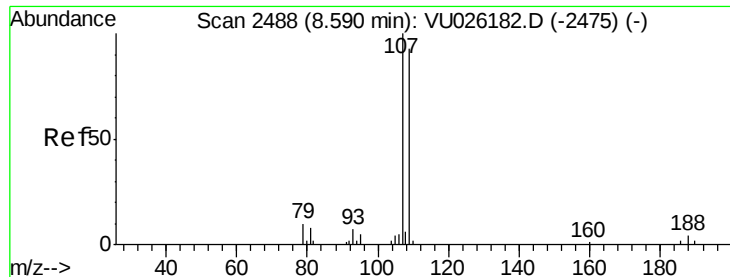
#49
Dibromochloromethane
Concen: 11.855 ug/L
RT: 8.48 min Scan# 2454
Delta R.T. -0.00 min
Lab File: VU026183.D
Acq: 17 Aug 2018 16:58

Tgt Ion:	129	Resp:	102093
Ion	Ratio	Lower	Upper
129	100		
127	74.5	54.9	101.9



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

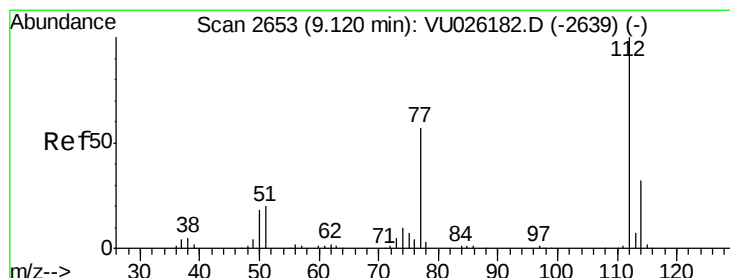
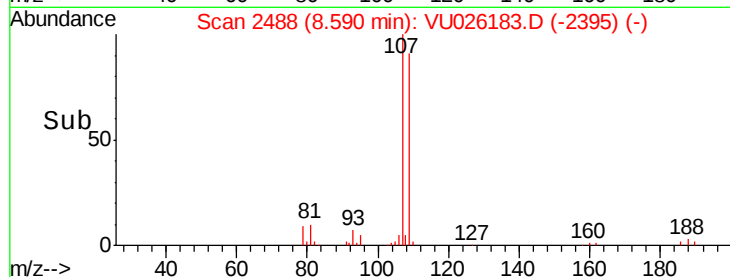
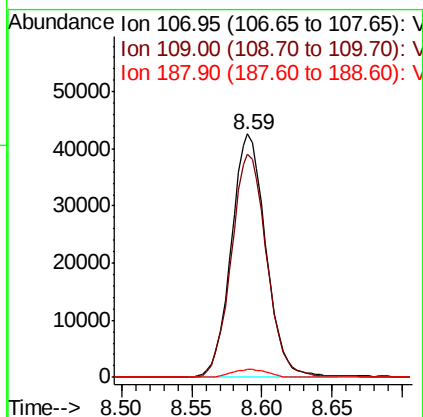
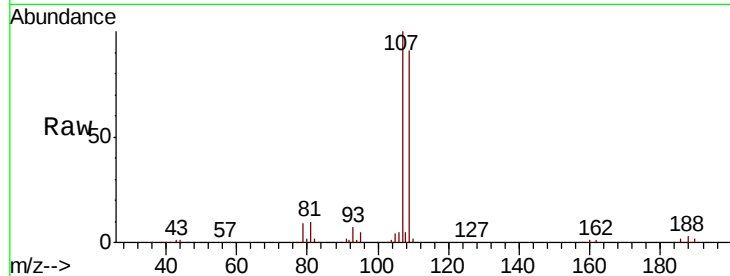




#50
 1,2-Dibromoethane
 Concen: 10.772 ug/L
 RT: 8.59 min Scan# 2488
 Delta R.T. -0.00 min
 Lab File: VU026183.D
 Acq: 17 Aug 2018 16:58

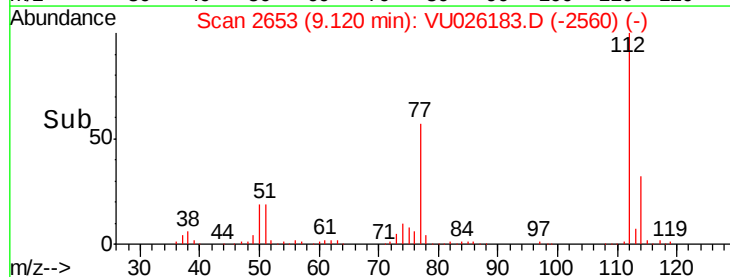
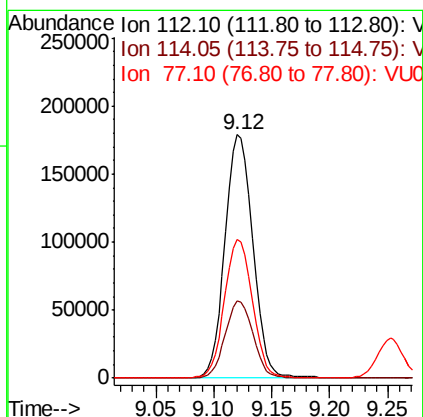
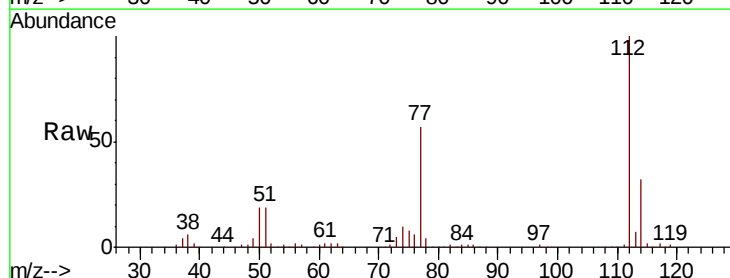
Instrument :
 MSVOA_U
 ClientSampled :

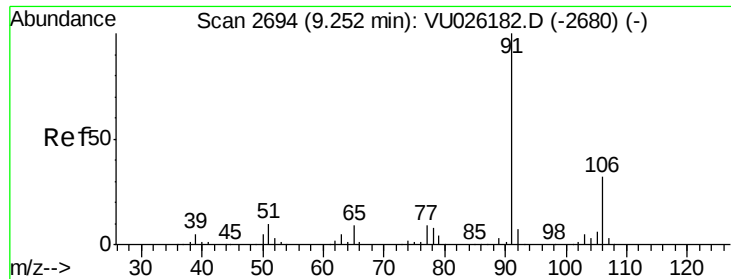
Tot Ion:107 Resp: 73166
 Ion Ratio Lower Upper
 107 100
 109 91.5 65.3 121.3
 188 3.3 3.0 4.4



#51
 Chlorobenzene
 Concen: 10.540 ug/L
 RT: 9.12 min Scan# 2653
 Delta R.T. -0.00 min
 Lab File: VU026183.D
 Acq: 17 Aug 2018 16:58

Tgt Ion:112 Resp: 298414
 Ion Ratio Lower Upper
 112 100
 114 31.6 22.5 41.7
 77 57.1 45.8 68.6





#52

Ethylbenzene

Concen: 11.173 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VU026183.D

Acq: 17 Aug 2018 16:58

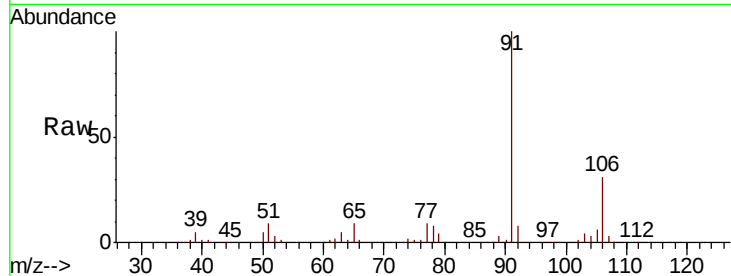
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 497464

Ion Ratio Lower Upper

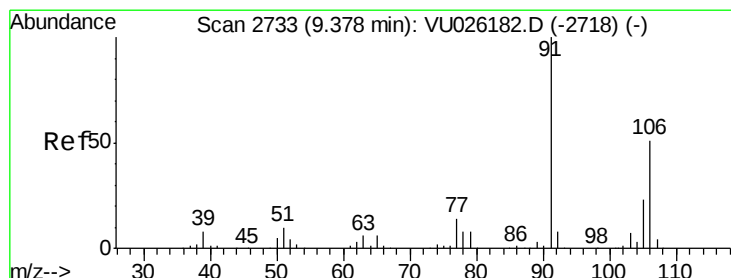
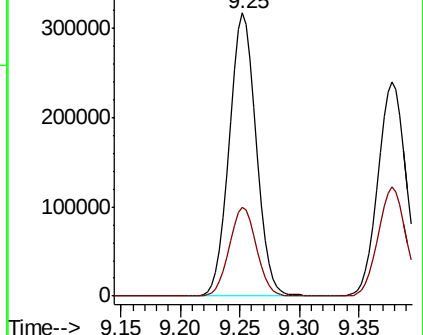
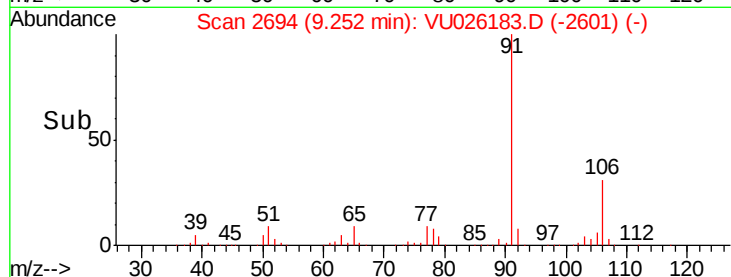
91 100

106 31.4 22.5 41.9



Abundance Ion 91.15 (90.85 to 91.85): VU026183.D (-2601) (-)

Ion 106.15 (105.85 to 106.85): VU026183.D (-2601) (-)



#53

m,p-xylene

Concen: 11.741 ug/L

RT: 9.38 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VU026183.D

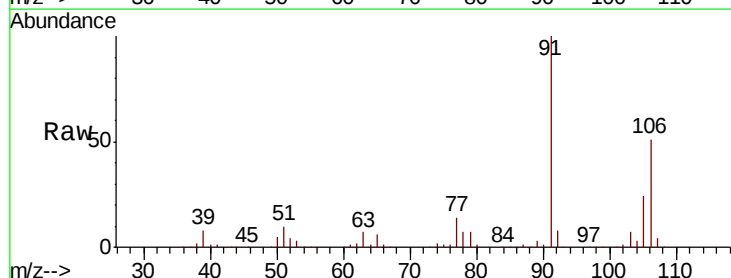
Acq: 17 Aug 2018 16:58

Tgt Ion:106 Resp: 199105

Ion Ratio Lower Upper

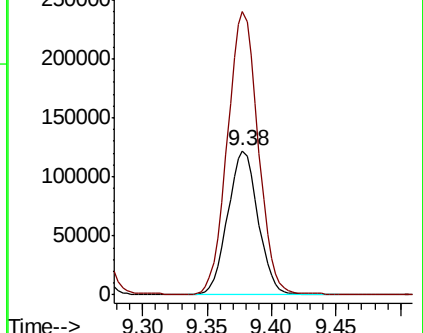
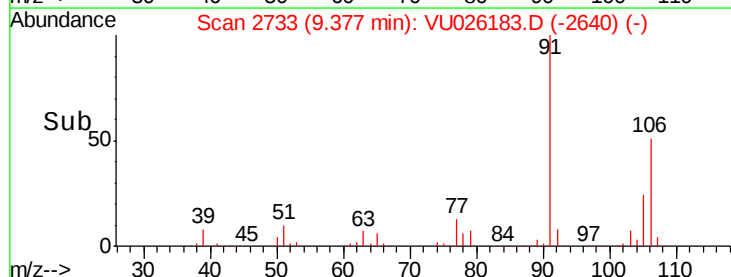
106 100

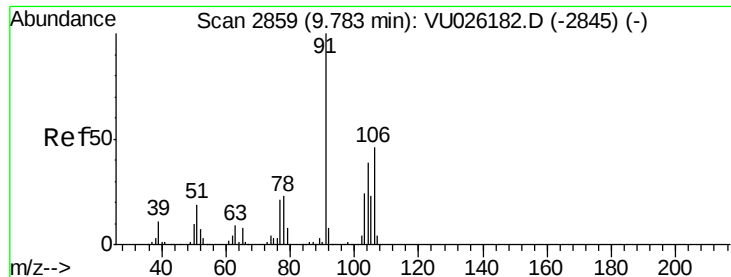
91 196.4 138.9 257.9



Abundance Ion 106.15 (105.85 to 106.85): VU026183.D (-2640) (-)

Ion 91.15 (90.85 to 91.85): VU026183.D (-2640) (-)





#54

o-xylene

Concen: 11.561 ug/L

RT: 9.78 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VU026183.D

Acq: 17 Aug 2018 16:58

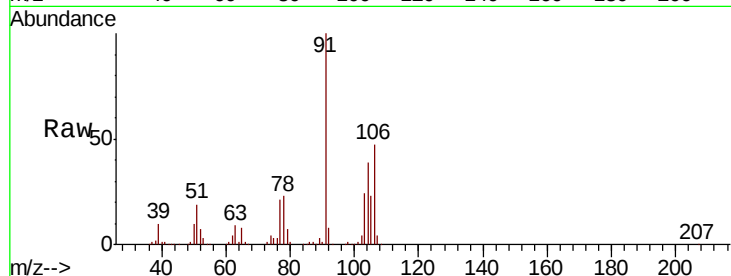
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 191462

Ion Ratio Lower Upper

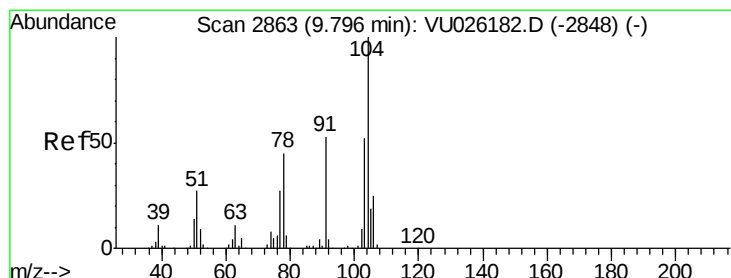
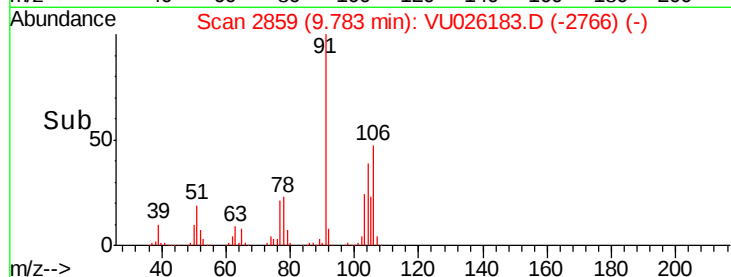
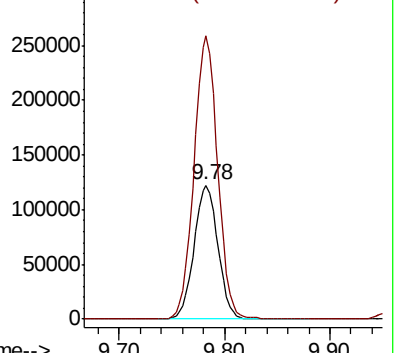
106 100

91 210.8 150.7 279.9



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 12.084 ug/L

RT: 9.80 min Scan# 2863

Delta R.T. -0.00 min

Lab File: VU026183.D

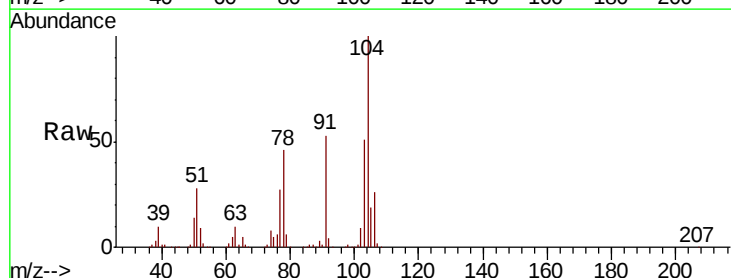
Acq: 17 Aug 2018 16:58

Tgt Ion:104 Resp: 331495

Ion Ratio Lower Upper

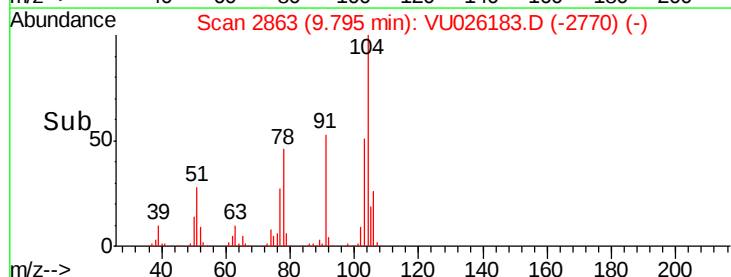
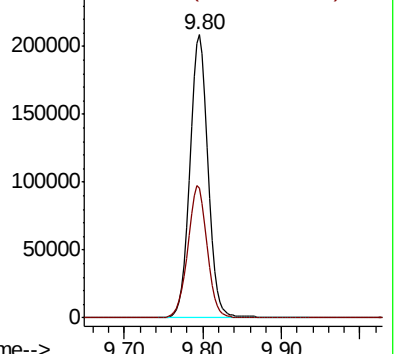
104 100

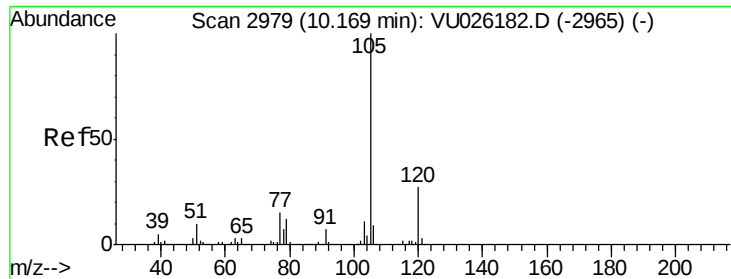
78 45.7 31.8 59.0



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 11.711 ug/L

RT: 10.17 min Scan# 2979

Delta R.T. -0.00 min

Lab File: VU026183.D

Acq: 17 Aug 2018 16:58

Instrument :

MSVOA_U

ClientSampleId :

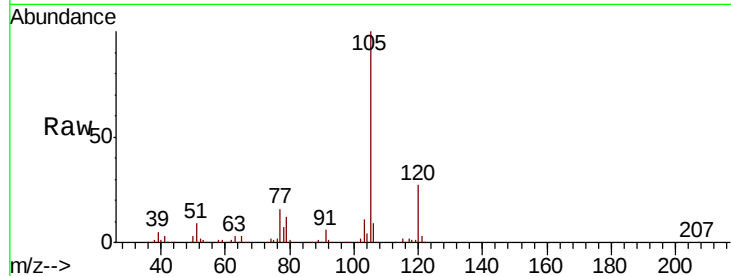
Tot Ion:105 Resp: 506178

Ion Ratio Lower Upper

105 100

120 26.6 21.4 32.2

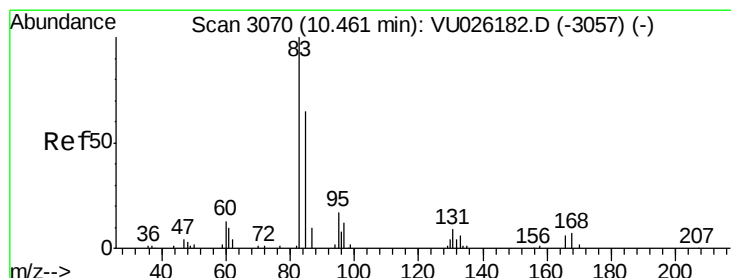
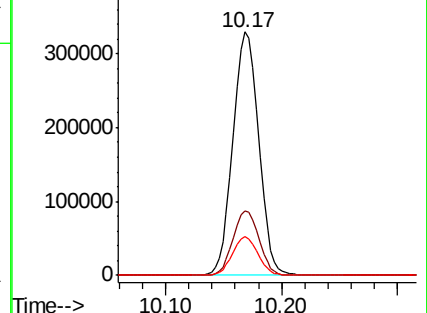
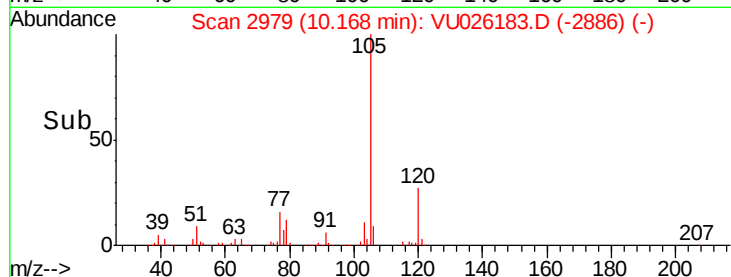
77 15.8 12.4 18.6



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: 10.231 ug/L

RT: 10.46 min Scan# 3069

Delta R.T. -0.00 min

Lab File: VU026183.D

Acq: 17 Aug 2018 16:58

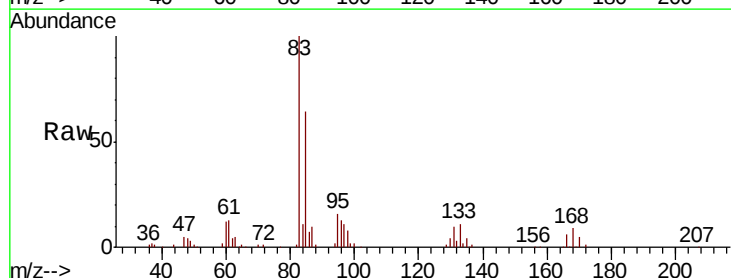
Tgt Ion: 83 Resp: 94723

Ion Ratio Lower Upper

83 100

85 63.7 45.7 84.9

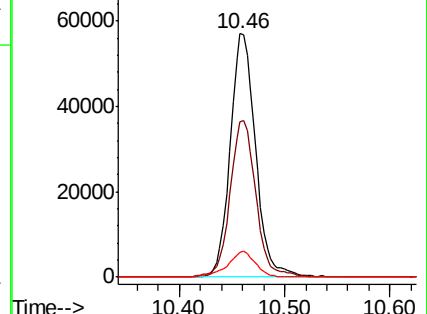
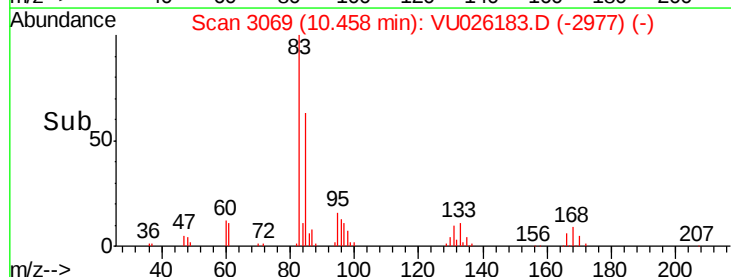
131 10.3 7.7 11.5

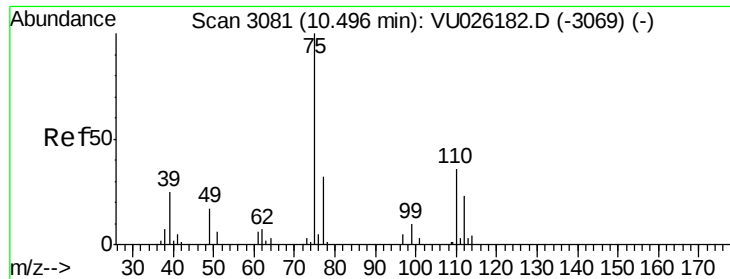


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

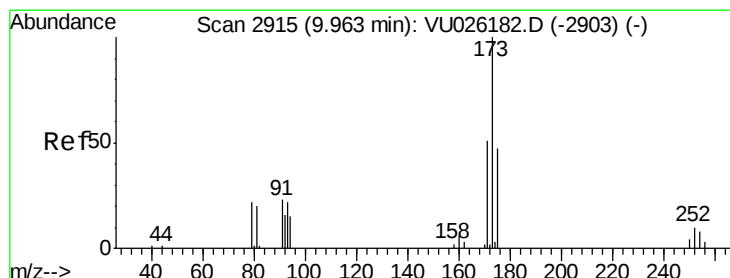
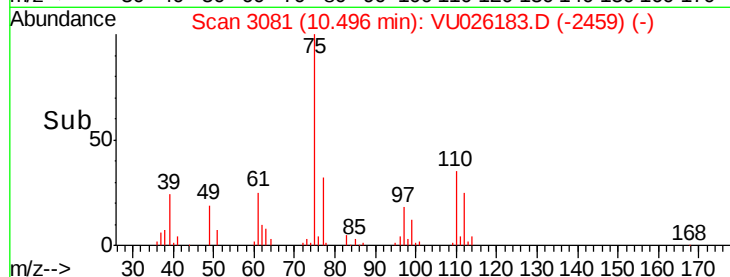
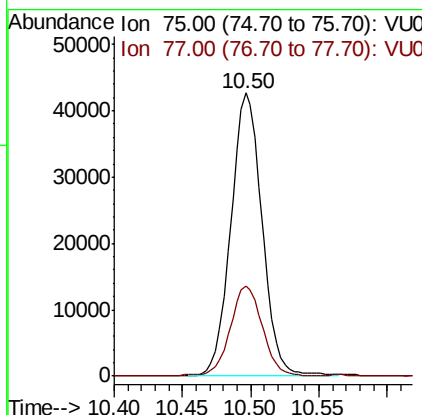
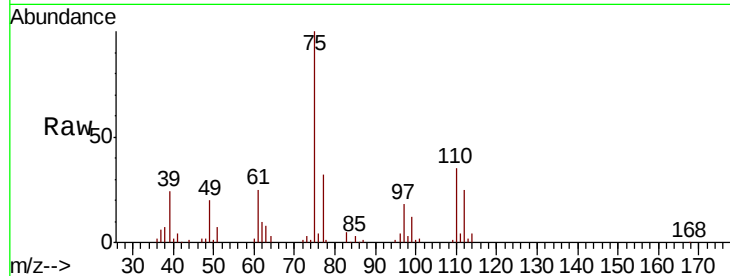




#59
 1,2,3-Trichloropropane
 Concen: 10.850 ug/L
 RT: 10.50 min Scan# 3081
 Delta R.T. -0.00 min
 Lab File: VU026183.D
 Acq: 17 Aug 2018 16:58

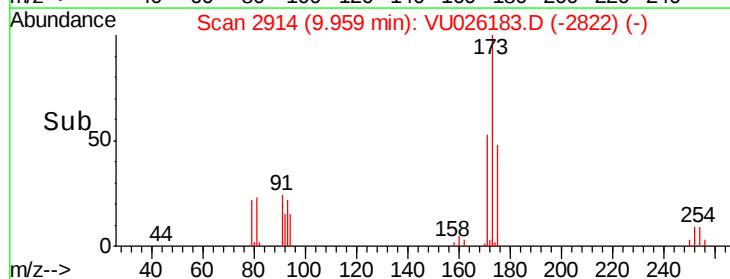
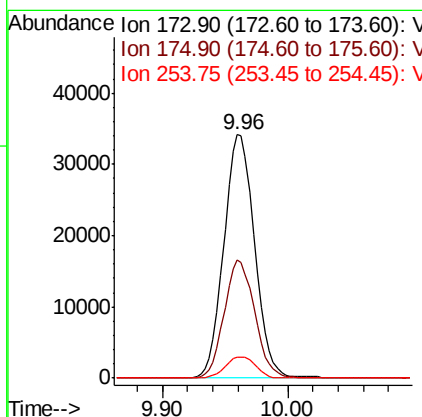
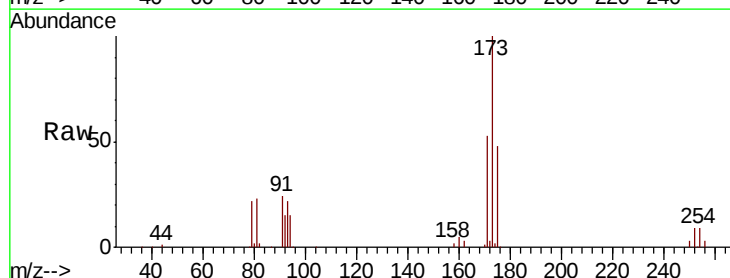
Instrument :
 MSVOA_U
 ClientSampleId :

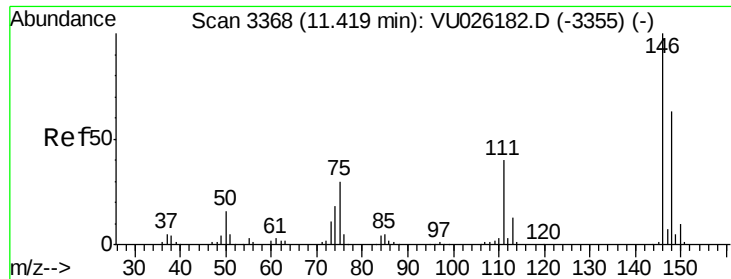
Tot Ion: 75 Resp: 67861
 Ion Ratio Lower Upper
 75 100
 77 33.1 29.0 43.4



#61
 Bromoform
 Concen: 10.586 ug/L
 RT: 9.96 min Scan# 2914
 Delta R.T. -0.00 min
 Lab File: VU026183.D
 Acq: 17 Aug 2018 16:58

Tgt Ion:173 Resp: 58073
 Ion Ratio Lower Upper
 173 100
 175 47.9 39.0 58.6
 254 8.5 6.8 10.2

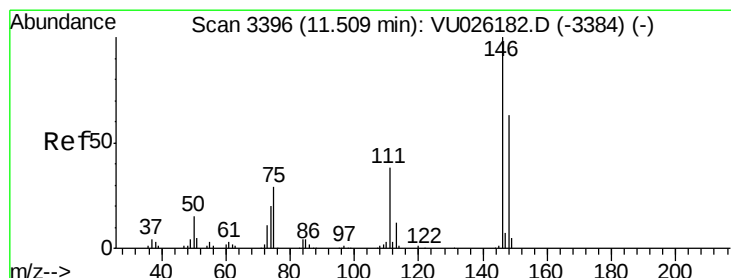
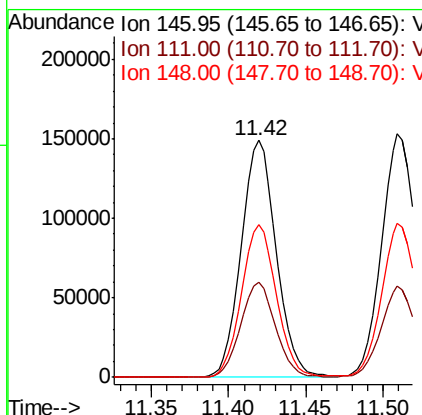
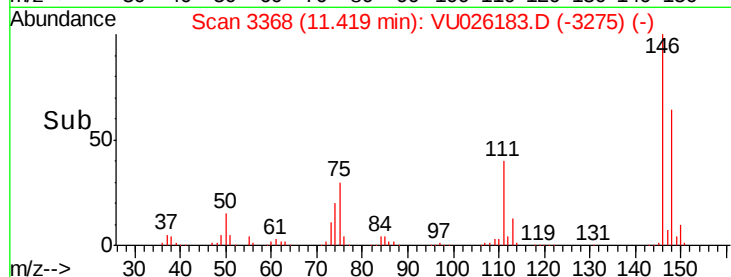
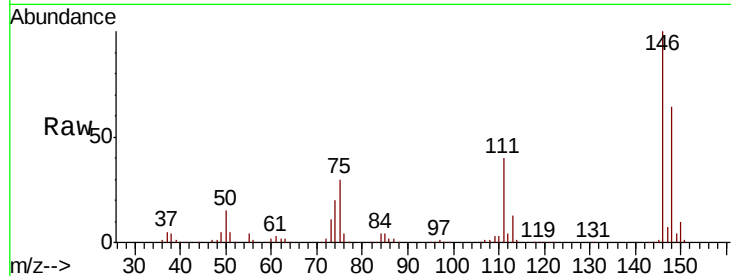




#62
 1,3-Dichlorobenzene
 Concen: 9.984 ug/L
 RT: 11.42 min Scan# 3368
 Delta R.T. -0.00 min
 Lab File: VU026183.D
 Acq: 17 Aug 2018 16:58

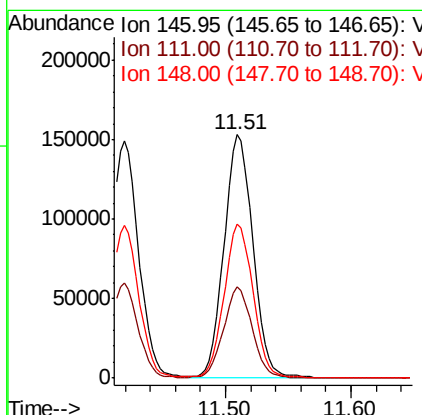
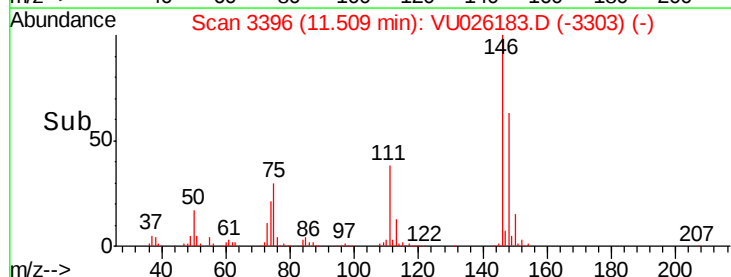
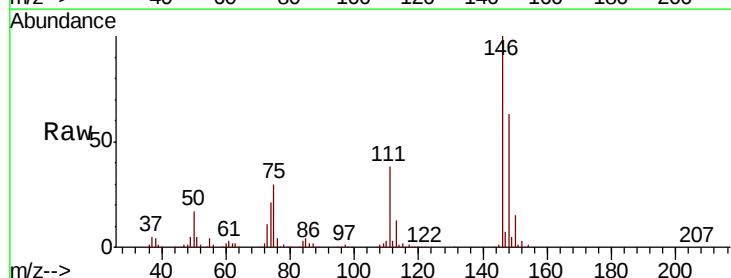
Instrument :
 MSVOA_U
 ClientSampleId :

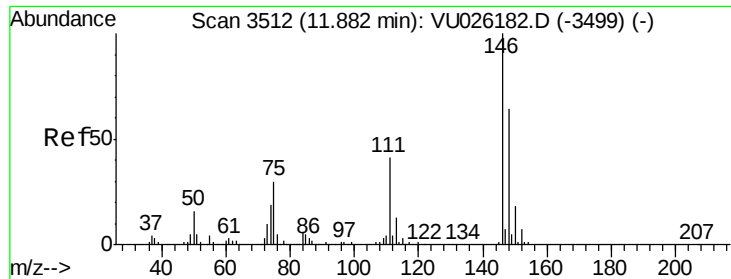
Tot Ion:146 Resp: 234870
 Ion Ratio Lower Upper
 146 100
 111 40.0 27.9 51.7
 148 64.2 44.2 82.0



#63
 1,4-Dichlorobenzene
 Concen: 10.346 ug/L
 RT: 11.51 min Scan# 3396
 Delta R.T. -0.00 min
 Lab File: VU026183.D
 Acq: 17 Aug 2018 16:58

Tgt Ion:146 Resp: 245266
 Ion Ratio Lower Upper
 146 100
 111 37.5 26.8 49.8
 148 63.4 44.2 82.0





#65

1,2-Dichlorobenzene

Concen: 9.820 ug/L

RT: 11.88 min Scan# 3512

Delta R.T. -0.00 min

Lab File: VU026183.D

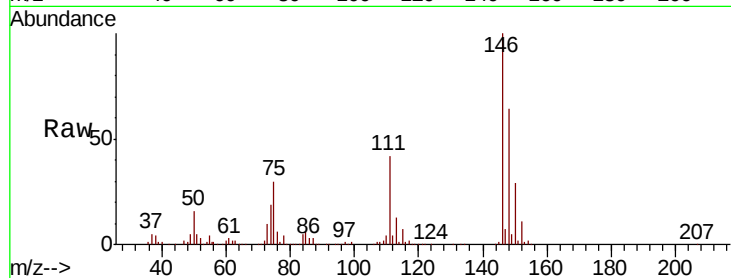
Acq: 17 Aug 2018 16:58

Instrument :

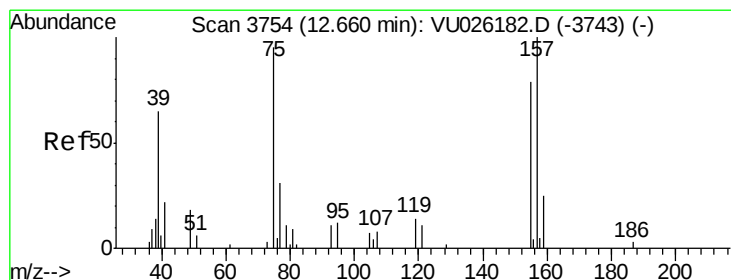
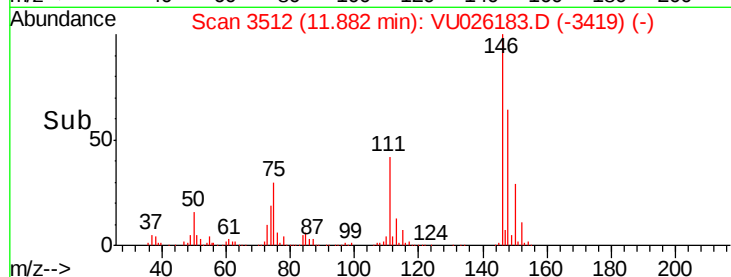
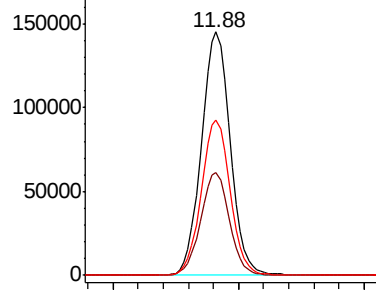
MSVOA_U

ClientSampleId :

Tot Ion:	146	Resp:	231543
Ion	Ratio	Lower	Upper
146	100		
111	42.1	33.0	49.4
148	63.8	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: 10.677 ug/L

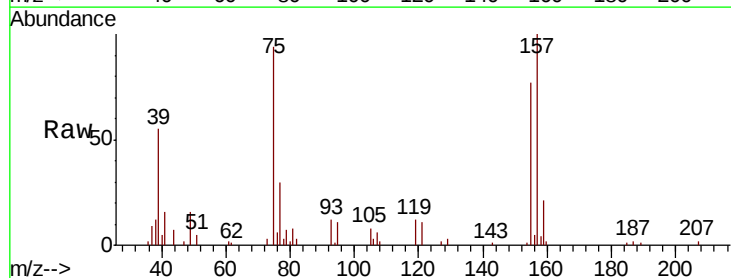
RT: 12.66 min Scan# 3754

Delta R.T. -0.00 min

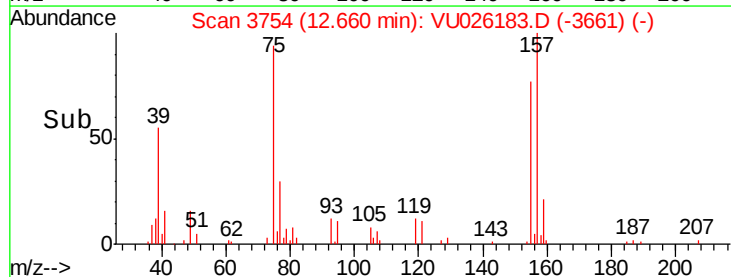
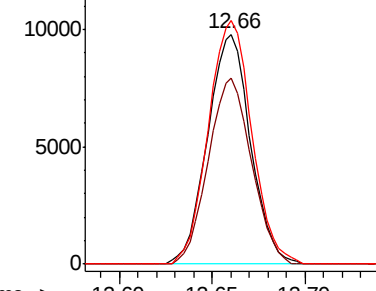
Lab File: VU026183.D

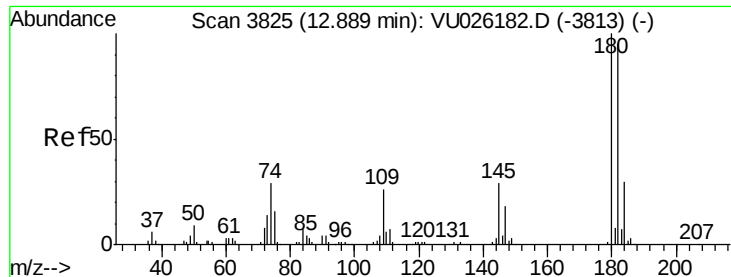
Acq: 17 Aug 2018 16:58

Tgt Ion:	75	Resp:	15725
Ion	Ratio	Lower	Upper
75	100		
155	81.2	66.2	99.4
157	105.9	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

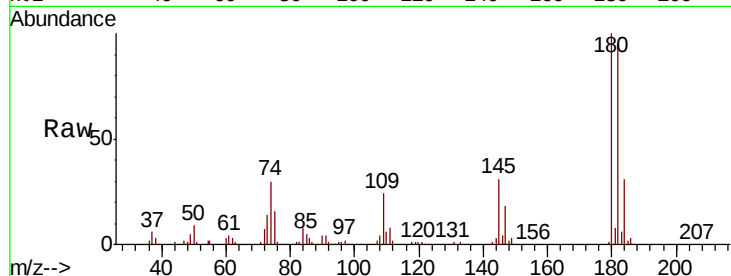




#67
 1,3,5-Trichlorobenzene
 Concen: 10.417 ug/L
 RT: 12.89 min Scan# 3825
 Delta R.T. -0.00 min
 Lab File: VU026183.D
 Acq: 17 Aug 2018 16:58

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.5	75.8	113.8
184	30.6	24.2	36.2
145	29.5	23.7	35.5



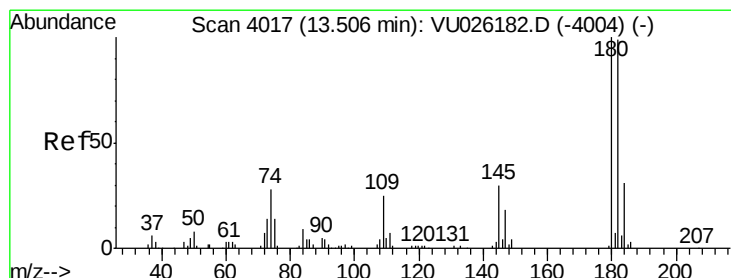
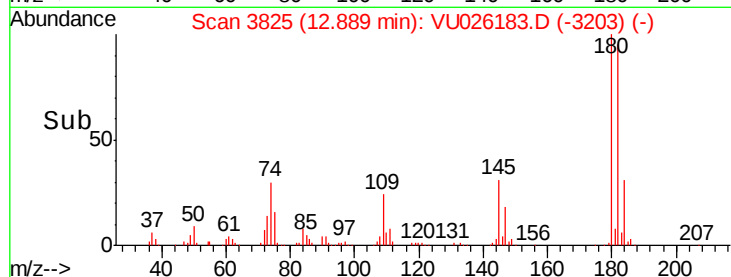
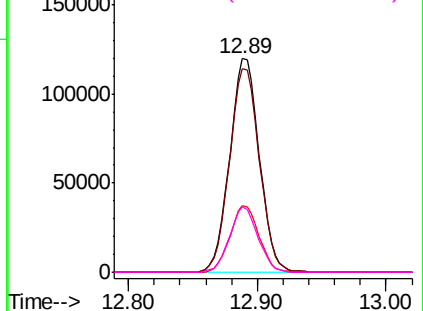
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

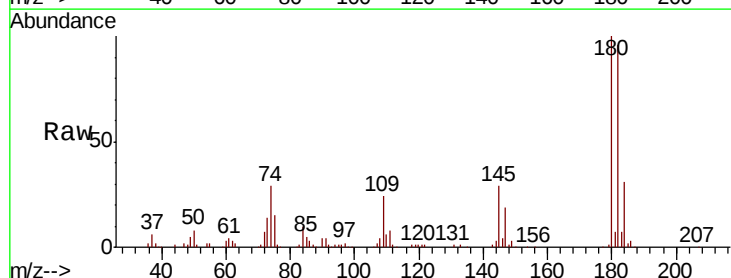
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 11.854 ug/L
 RT: 13.51 min Scan# 4017
 Delta R.T. -0.00 min
 Lab File: VU026183.D
 Acq: 17 Aug 2018 16:58

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.2	77.9	116.9
145	28.7	24.2	36.2

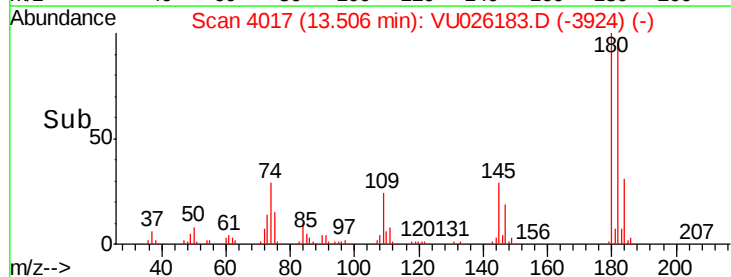
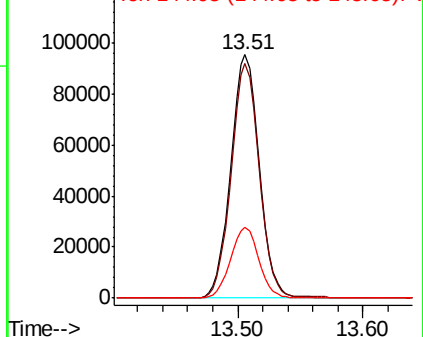


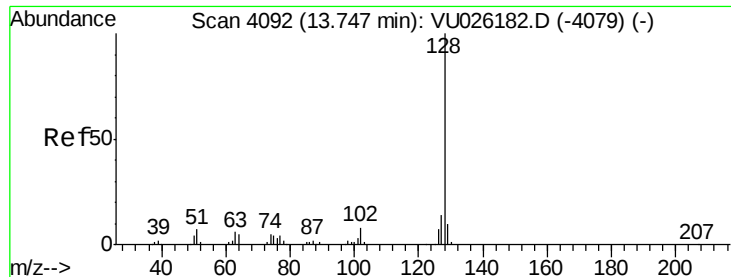
Abundance

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: 12.289 ug/L

RT: 13.75 min Scan# 4092

Delta R.T. -0.00 min

Lab File: VU026183.D

Acq: 17 Aug 2018 16:58

Instrument :

MSVOA_U

ClientSampleId :

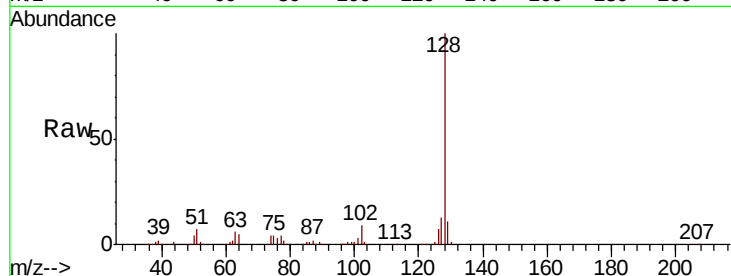
Tot Ion:128 Resp: 234361

Ion Ratio Lower Upper

128 100

129 10.8 8.6 13.0

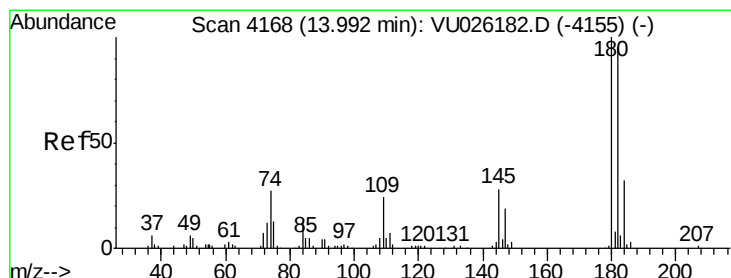
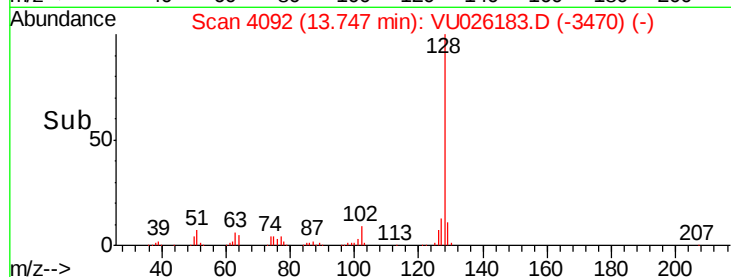
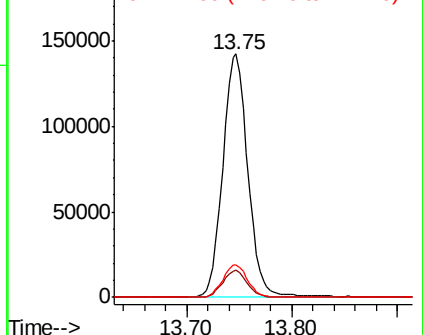
127 13.3 10.7 16.1



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: 11.545 ug/L

RT: 13.99 min Scan# 4168

Delta R.T. -0.00 min

Lab File: VU026183.D

Acq: 17 Aug 2018 16:58

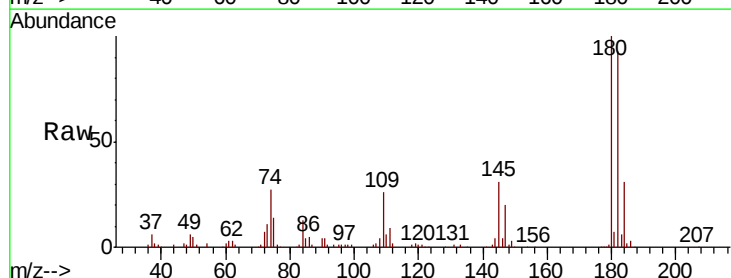
Tgt Ion:180 Resp: 143194

Ion Ratio Lower Upper

180 100

182 94.6 77.8 116.6

145 31.3 24.9 37.3



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

