

Data File : VU029753.D
Acq On : 01 Mar 2019 10:58
Operator : JC/SP
Sample : K1577-13RE
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
CWJY0RE

Quant Time: Mar 01 22:15:03 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR022119WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Mar 01 22:12:01 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	232904	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	227338	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	116058	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	63662	4.18	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	83.60%
7) Chloroethane-d5	1.68	69	65553	4.58	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	91.60%
11) 1,1-Dichloroethene-d2	2.27	63	100027	3.06	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	61.20%
20) 2-Butanone-d5	4.19	46	237530	69.07	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	138.14%#
24) Chloroform-d	4.65	84	145273	5.42	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	108.40%
26) 1,2-Dichloroethane-d4	5.31	65	78147	5.40	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	108.00%
32) Benzene-d6	5.34	84	306951	5.26	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	105.20%
36) 1,2-Dichloropropane-d6	6.33	67	100153	5.90	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	118.00%
41) Toluene-d8	7.56	98	268484	4.70	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.00%
43) trans-1,3-Dichloropropene-	7.85	79	35499	5.09	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	101.80%
46) 2-Hexanone-d5	8.31	63	227927	66.71	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	133.42%#
57) 1,1,2,2-Tetrachloroethane-	10.43	84	90731	5.95	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	119.00%
64) 1,2-Dichlorobenzene-d4	11.86	152	119896	5.25	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	105.00%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	924	0.051 ug/L	90
3) Chloromethane	1.32	50	1762	0.112 ug/L	99
5) Vinyl chloride	1.40	62	8145	0.410 ug/L #	1
8) Chloroethane	1.70	64	2800	0.218 ug/L #	77
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	1042	0.057 ug/L #	18
12) 1,1-Dichloroethene	2.27	96	1211	0.070 ug/L #	1
13) Acetone	2.32	43	8169	3.306 ug/L	94
18) trans-1,2-Dichloroethene	2.98	96	7198	0.383 ug/L	86
19) 1,1-Dichloroethane	3.44	63	1530	0.052 ug/L	96
22) cis-1,2-Dichloroethene	4.22	96	100989	5.865 ug/L	97
25) Chloroform	4.67	83	11640	0.397 ug/L	88
33) Benzene	5.39	78	13241	0.220 ug/L	100
34) Trichloroethene	6.18	95	73506	4.383 ug/L	98
35) Methylcyclohexane	6.33	83	23271	0.856 ug/L #	21
37) 1,2-Dichloropropane	6.33	63	10082	0.666 ug/L #	86
39) cis-1,3-Dichloropropene	7.22	75	2496	0.113 ug/L #	72
42) Toluene	7.63	91	63805	0.936 ug/L	96

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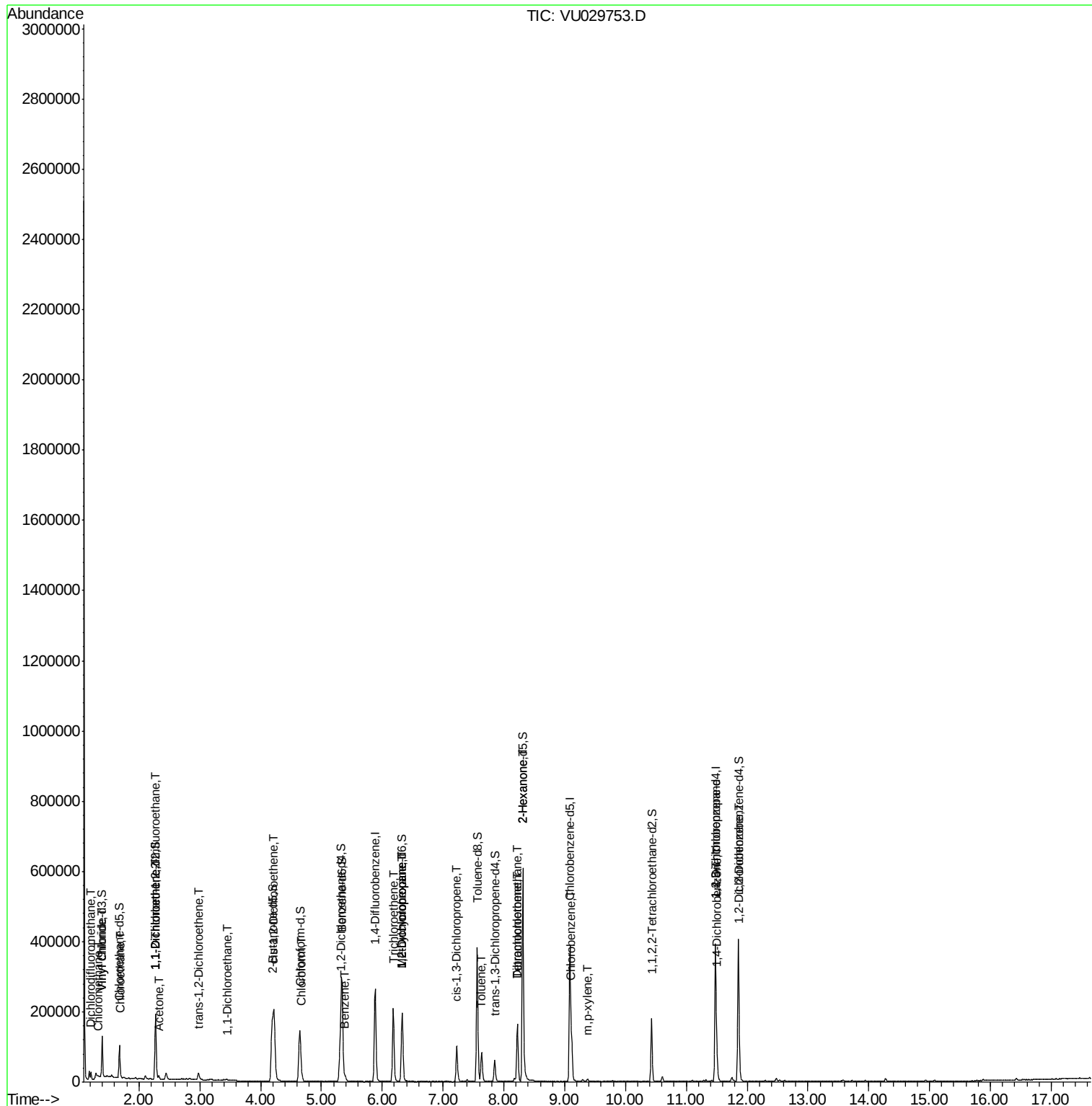
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) Tetrachloroethene	8.22	164	40414	2.595	ug/L	95
48) 2-Hexanone	8.31	43	23622	3.797	ug/L #	66
49) Dibromochloromethane	8.22	129	35714	2.488	ug/L #	12
51) Chlorobenzene	9.12	112	66101	1.412	ug/L	98
53) m,p-xylene	9.38	106	1709	0.056	ug/L	92
59) 1,2,3-Trichloropropane	11.48	75	18515	1.832	ug/L	89
63) 1,4-Dichlorobenzene	11.50	146	22692	0.607	ug/L	94
65) 1,2-Dichlorobenzene	11.87	146	4786	0.135	ug/L #	88

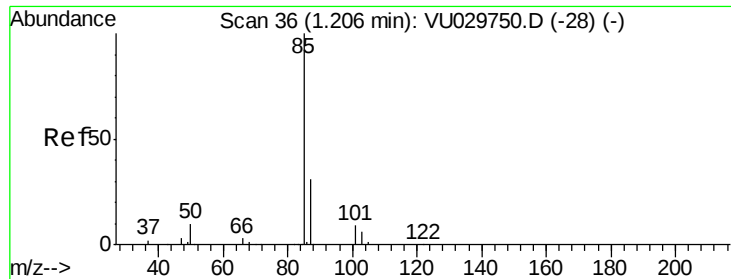
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 0.051 ug/L

RT: 1.21 min Scan# 36

Delta R.T. 0.00 min

Lab File: VU029753.D

Acq: 01 Mar 2019 10:58

Instrument :

MSVOA_U

ClientSampleId :

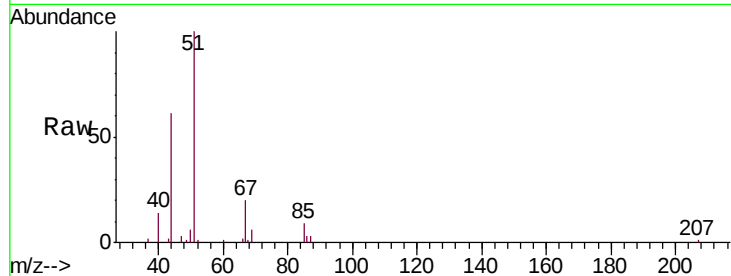
CWJY0RE

Tgt Ion: 85 Resp: 924

Ion Ratio Lower Upper

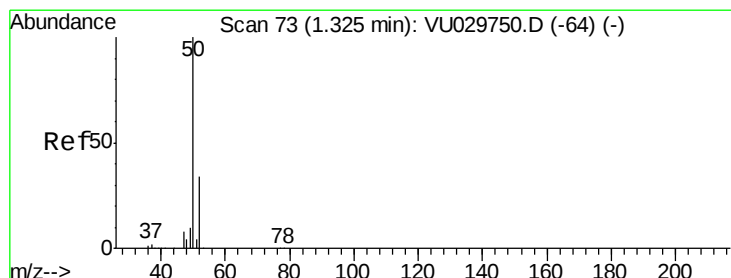
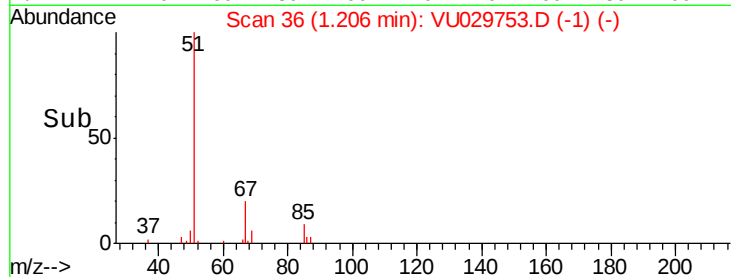
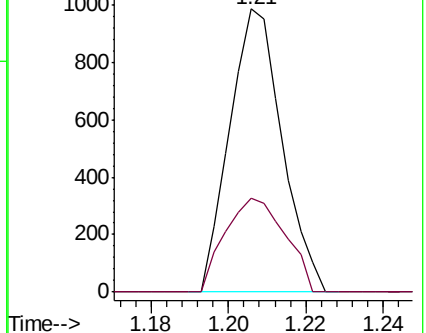
85 100

87 38.2 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 0.112 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU029753.D

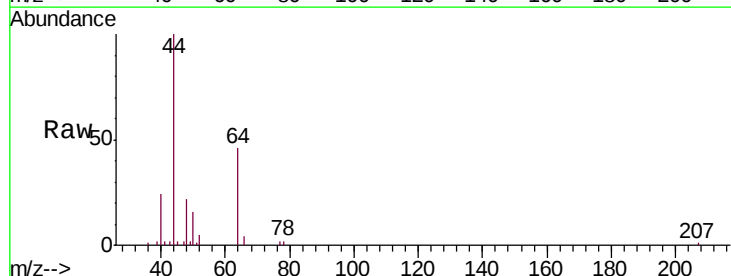
Acq: 01 Mar 2019 10:58

Tgt Ion: 50 Resp: 1762

Ion Ratio Lower Upper

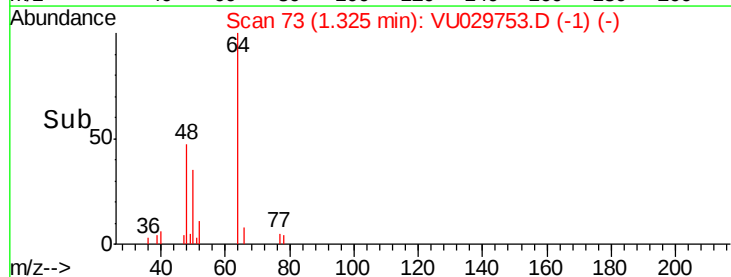
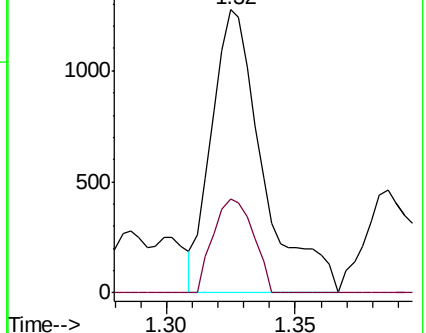
50 100

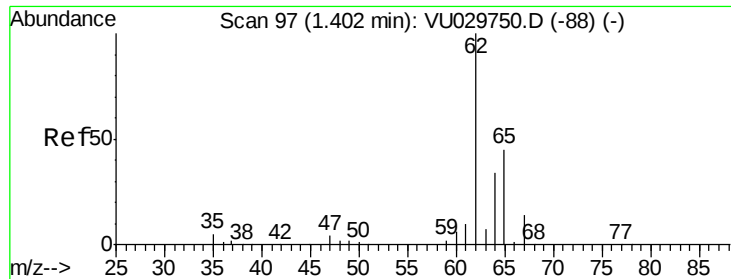
52 33.0 23.5 43.7



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0





#5

Vinyl chloride

Concen: 0.410 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU029753.D

Acq: 01 Mar 2019 10:58

Instrument :

MSVOA_U

ClientSampleId :

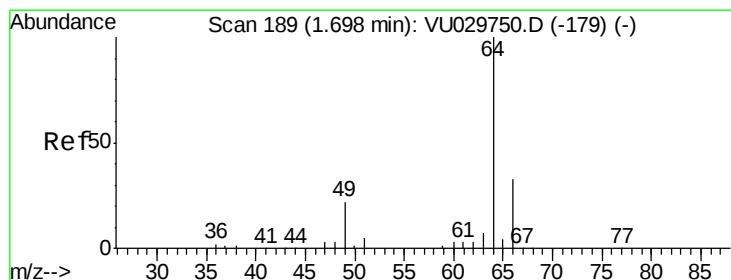
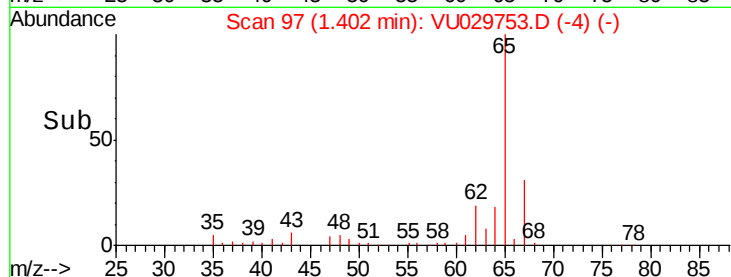
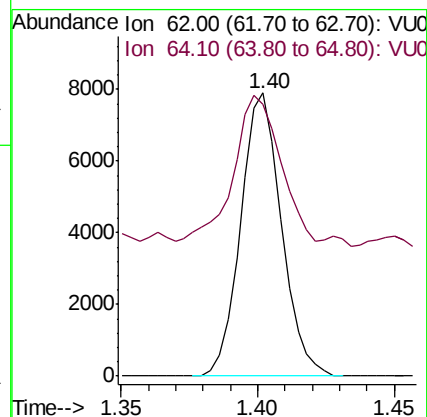
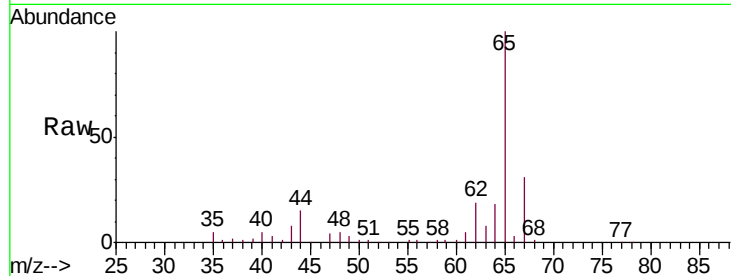
CWJY0RE

Tgt Ion: 62 Resp: 8145

Ion Ratio Lower Upper

62 100

64 96.1 24.8 46.1#



#8

Chloroethane

Concen: 0.218 ug/L

RT: 1.70 min Scan# 189

Delta R.T. 0.00 min

Lab File: VU029753.D

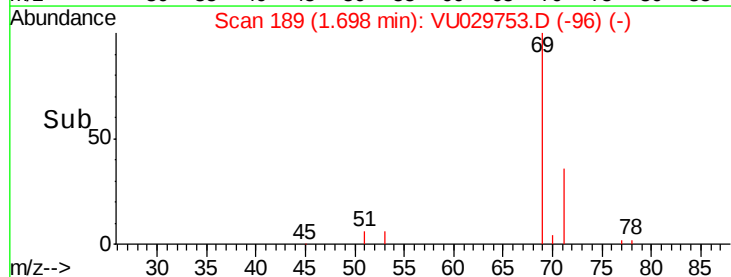
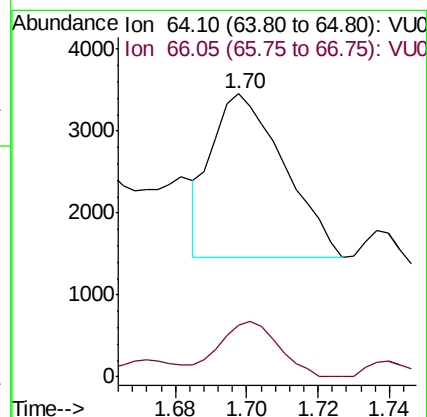
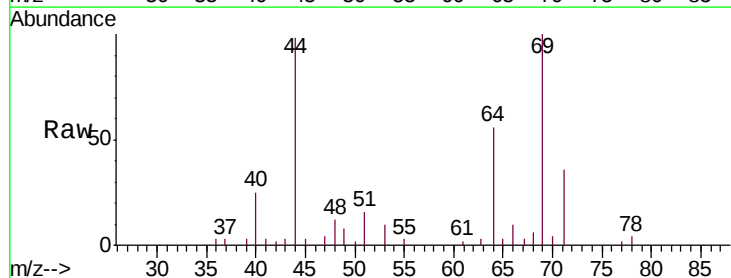
Acq: 01 Mar 2019 10:58

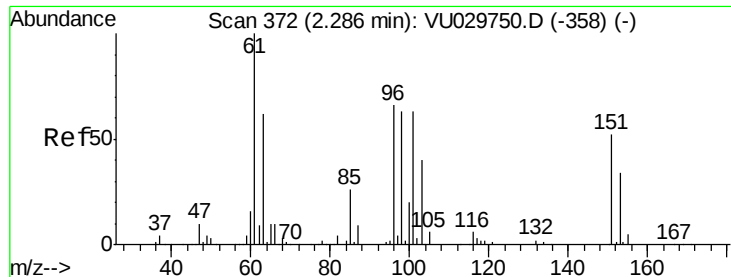
Tgt Ion: 64 Resp: 2800

Ion Ratio Lower Upper

64 100

66 18.2 21.4 39.8#





#10

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

Concen: 0.057 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.01 min

Lab File: VU029753.D

Acq: 01 Mar 2019 10:58

Instrument :

MSVOA_U

ClientSampleId :

CWJY0RE

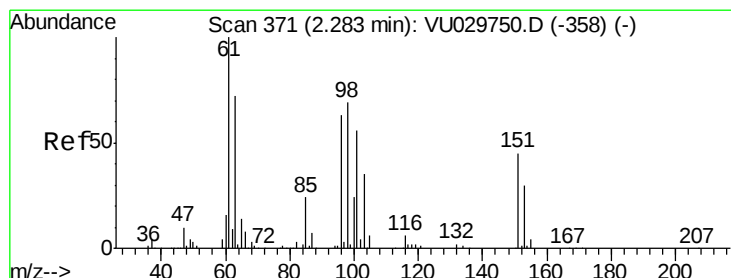
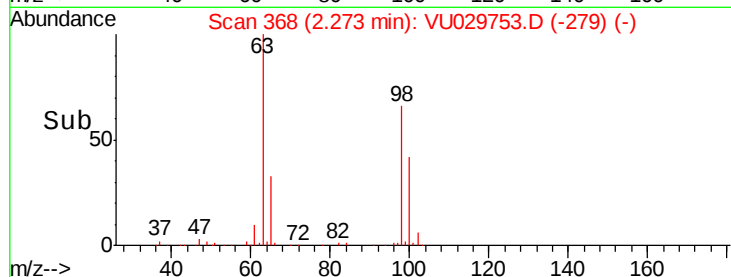
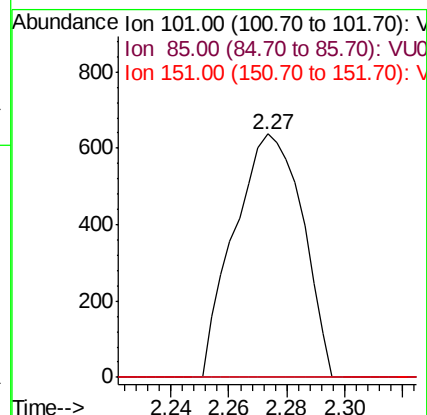
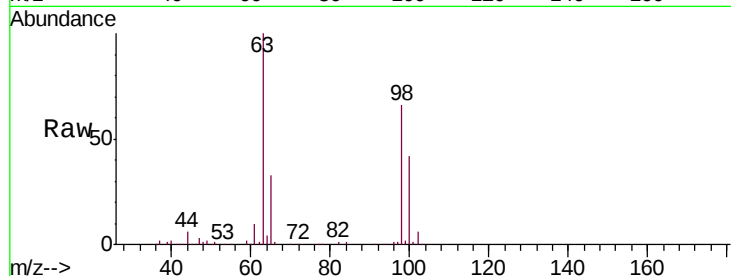
Tgt Ion: 101 Resp: 1042

Ion Ratio Lower Upper

101 100

85 0.0 32.8 49.2#

151 2.0 65.9 98.9#



#12

1,1-Dichloroethene

Concen: 0.070 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.01 min

Lab File: VU029753.D

Acq: 01 Mar 2019 10:58

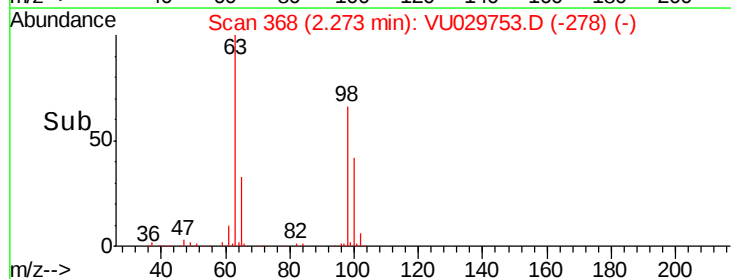
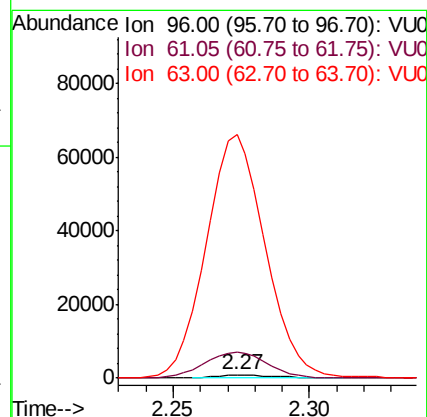
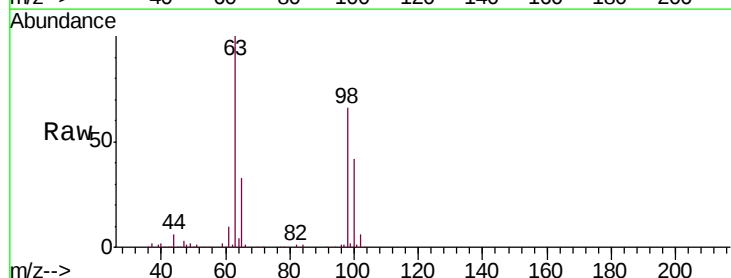
Tgt Ion: 96 Resp: 1211

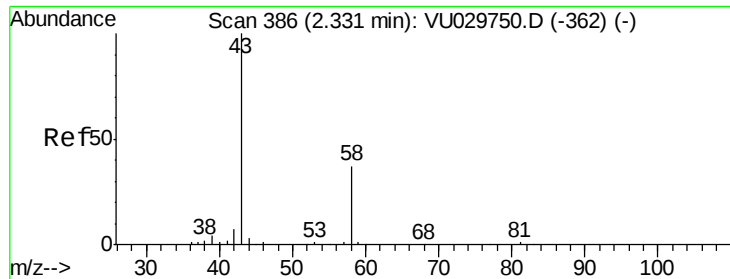
Ion Ratio Lower Upper

96 100

61 858.4 111.3 206.7#

63 8198.3 88.5 164.3#





#13

Acetone

Concen: 3.306 ug/L

RT: 2.32 min Scan# 384

Delta R.T. -0.01 min

Lab File: VU029753.D

Acq: 01 Mar 2019 10:58

Instrument :

MSVOA_U

ClientSampleId :

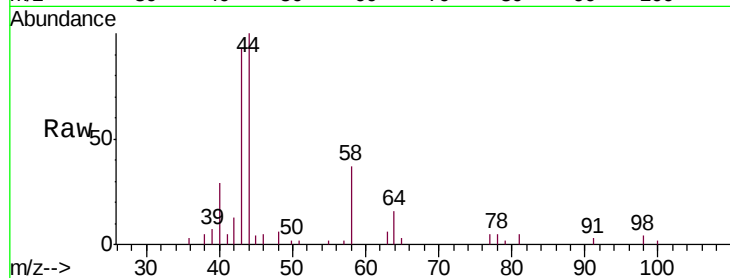
CWJY0RE

Tgt Ion: 43 Resp: 8169

Ion Ratio Lower Upper

43 100

58 38.3 0.0 70.2



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

2.32

5000

4000

3000

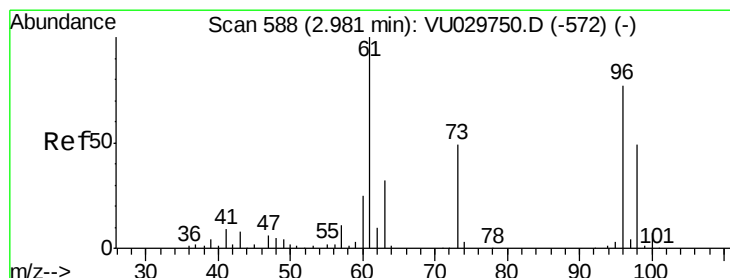
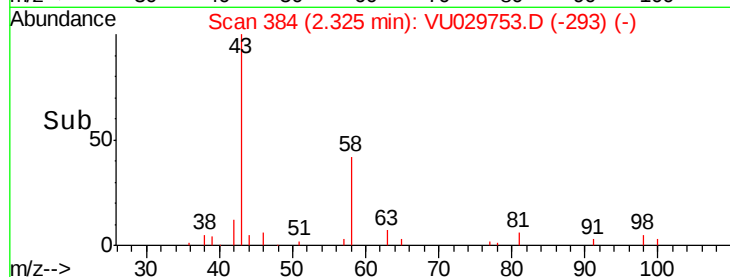
2000

1000

0

Time-->

2.25 2.30 2.35



#18

trans-1,2-Dichloroethene

Concen: 0.383 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU029753.D

Acq: 01 Mar 2019 10:58

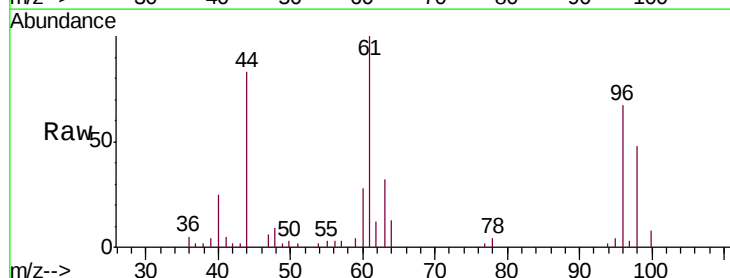
Tgt Ion: 96 Resp: 7198

Ion Ratio Lower Upper

96 100

61 148.3 90.3 167.7

98 70.8 45.2 84.0



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 97.95 (97.65 to 98.65): VU0

6000

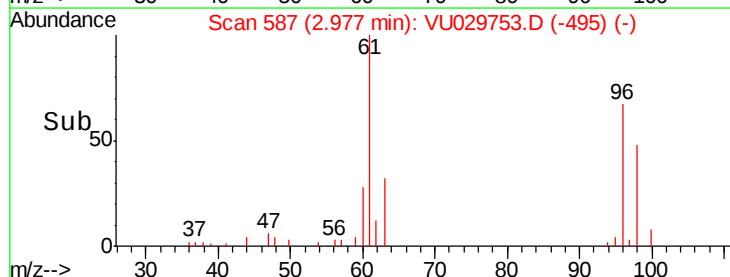
4000

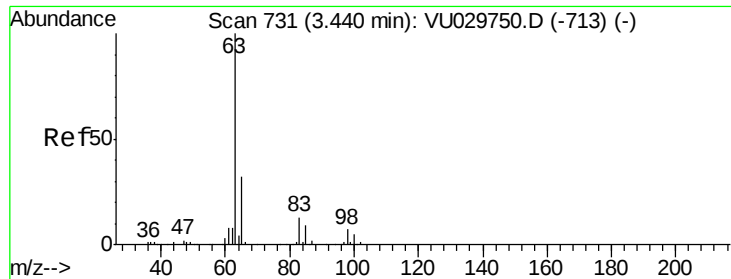
2000

0

Time-->

2.95 3.00 3.05





#19

1,1-Dichloroethane

Concen: 0.052 ug/L

RT: 3.44 min Scan# 732

Delta R.T. 0.00 min

Lab File: VU029753.D

Acq: 01 Mar 2019 10:58

Instrument :

MSVOA_U

ClientSampleId :

CWJY0RE

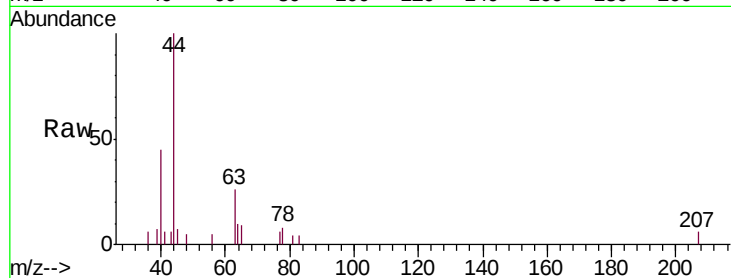
Tgt Ion: 63 Resp: 1530

Ion Ratio Lower Upper

63 100

65 35.2 22.3 41.5

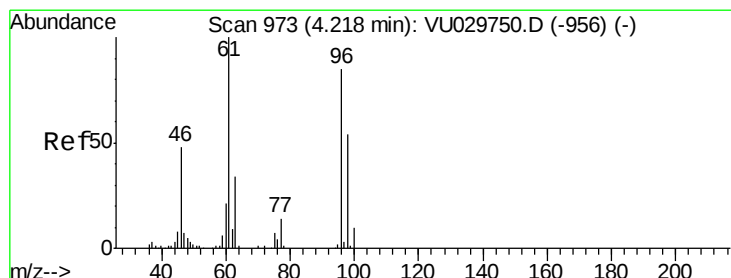
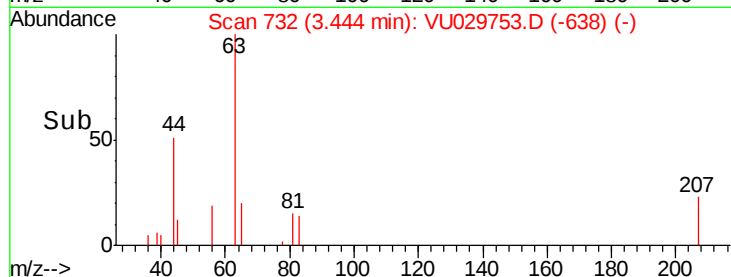
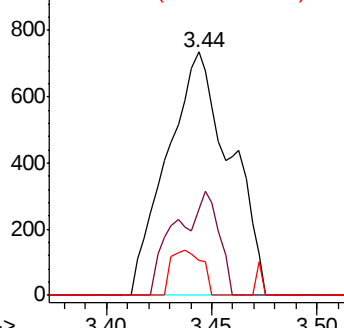
83 14.1 9.9 18.5



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



#22

cis-1,2-Dichloroethene

Concen: 5.865 ug/L

RT: 4.22 min Scan# 974

Delta R.T. 0.00 min

Lab File: VU029753.D

Acq: 01 Mar 2019 10:58

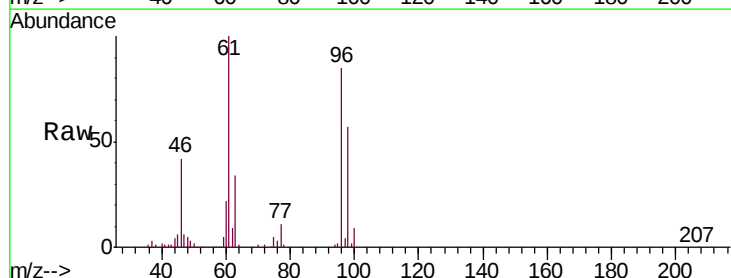
Tgt Ion: 96 Resp: 100989

Ion Ratio Lower Upper

96 100

61 117.8 80.2 149.0

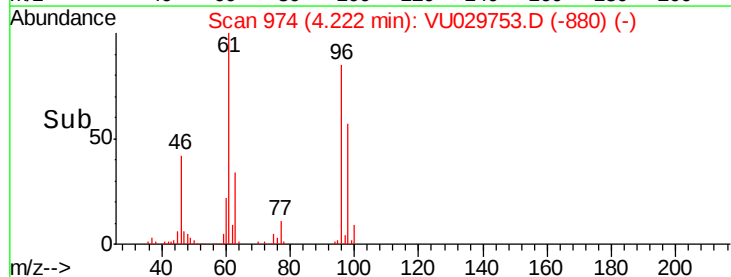
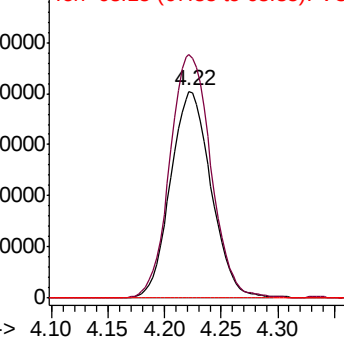
68 0.0 0.0 0.0

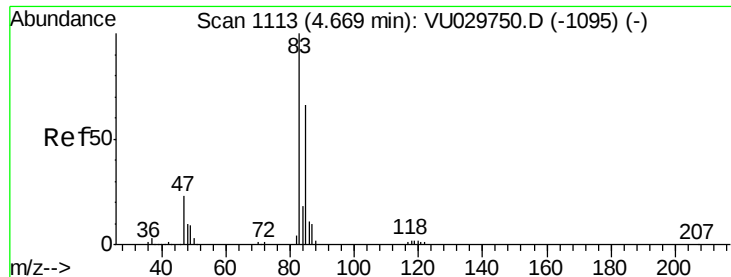


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 68.15 (67.85 to 68.85): VU0

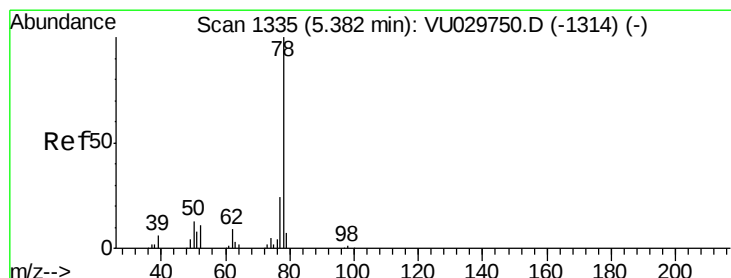
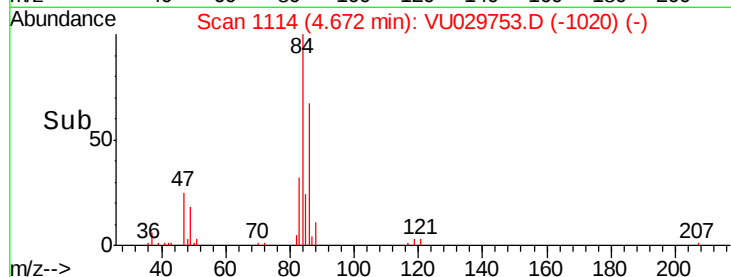
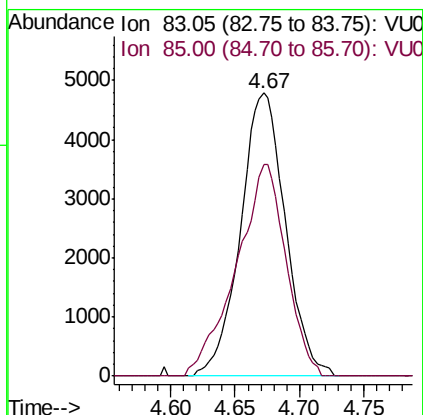
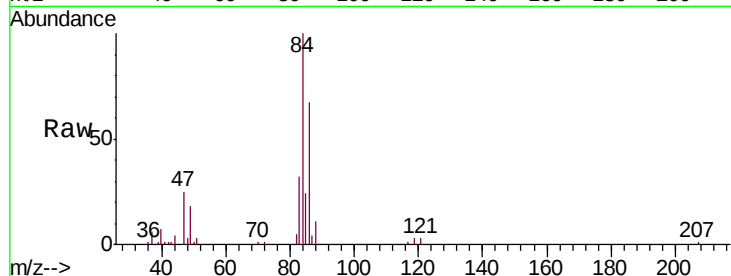




#25
Chloroform
Concen: 0.397 ug/L
RT: 4.67 min Scan# 1114
Delta R.T. 0.00 min
Lab File: VU029753.D
Acq: 01 Mar 2019 10:58

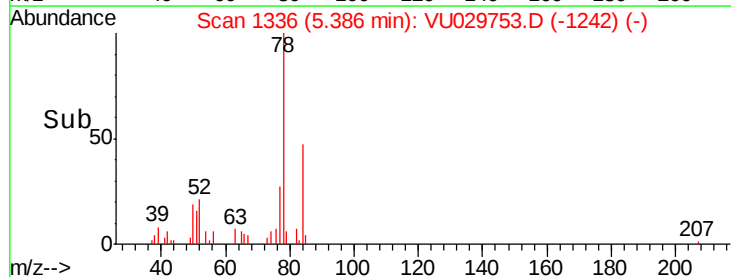
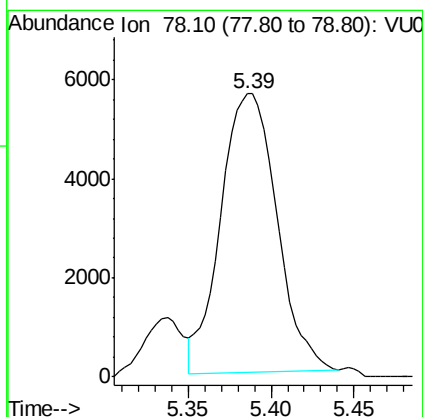
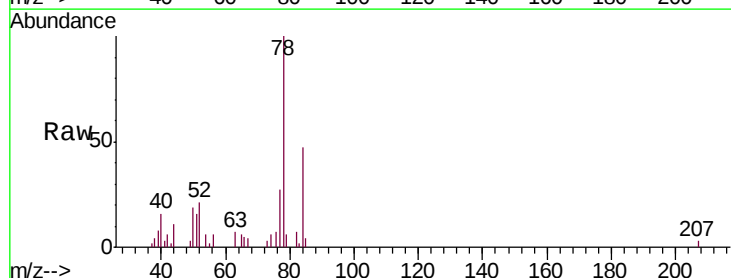
Instrument :
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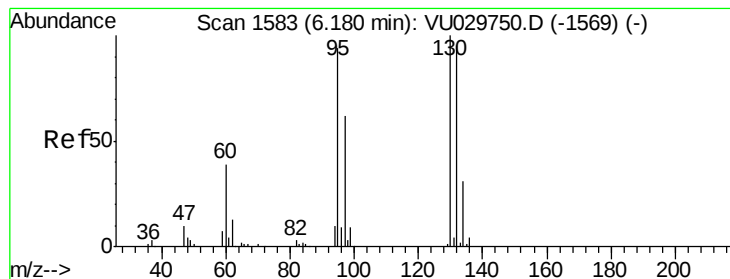
Tgt Ion: 83 Resp: 11640
Ion Ratio Lower Upper
83 100
85 75.0 45.6 84.6



#33
Benzene
Concen: 0.220 ug/L
RT: 5.39 min Scan# 1336
Delta R.T. 0.00 min
Lab File: VU029753.D
Acq: 01 Mar 2019 10:58

Tgt Ion: 78 Resp: 13241





#34

Trichloroethene

Concen: 4.383 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU029753.D

Acq: 01 Mar 2019 10:58

Instrument :

MSVOA_U

ClientSampleId :

CWJY0RE

Tgt Ion: 95 Resp: 73506

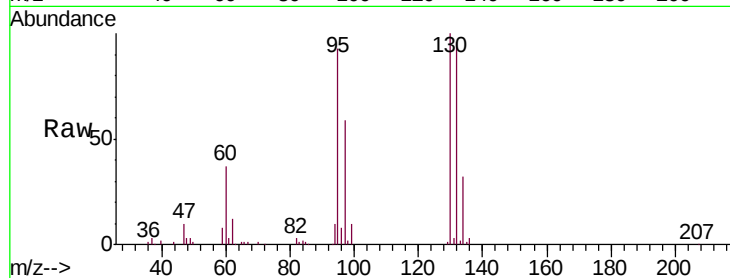
Ion Ratio Lower Upper

95 100

97 63.0 45.6 84.8

132 103.8 72.9 135.3

130 107.6 77.5 143.9

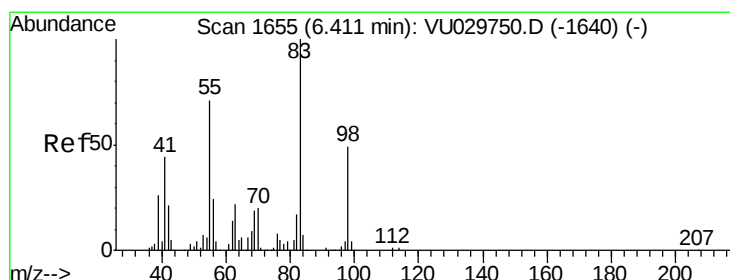
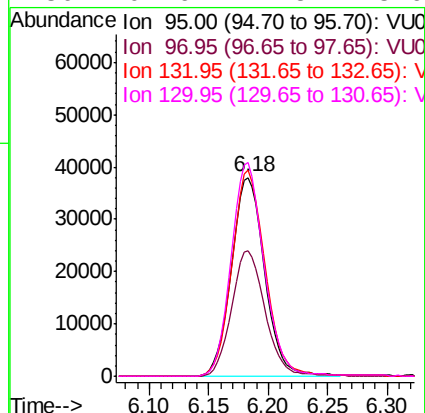
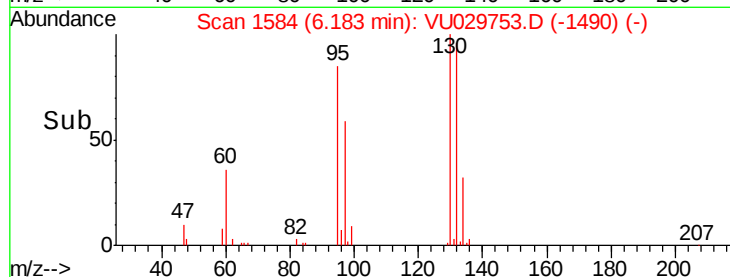


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 0.856 ug/L

RT: 6.33 min Scan# 1629

Delta R.T. -0.08 min

Lab File: VU029753.D

Acq: 01 Mar 2019 10:58

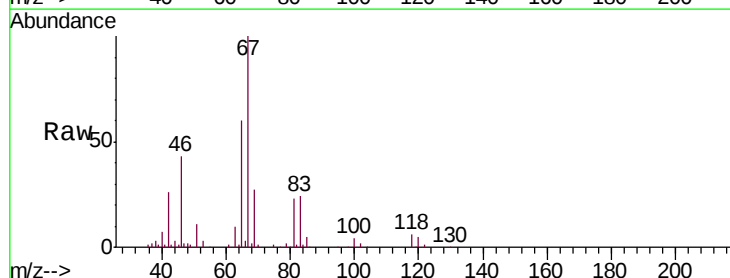
Tgt Ion: 83 Resp: 23271

Ion Ratio Lower Upper

83 100

55 0.7 56.5 84.7#

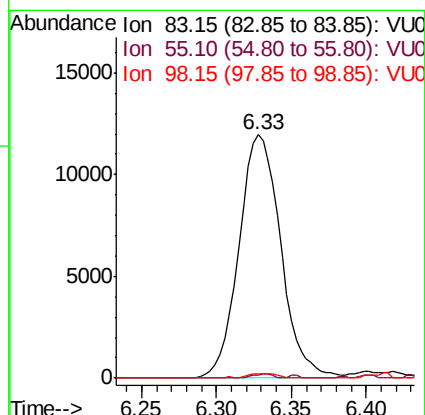
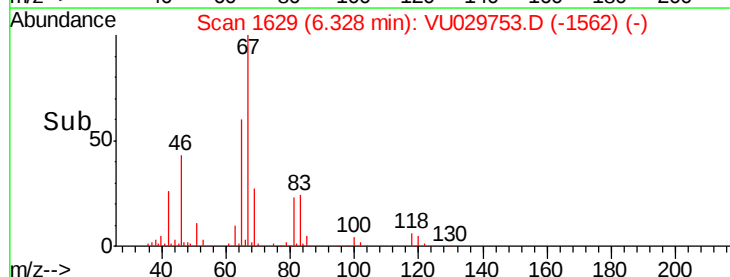
98 1.3 39.4 59.2#

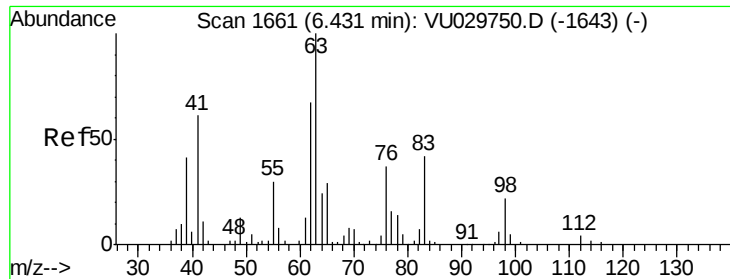


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

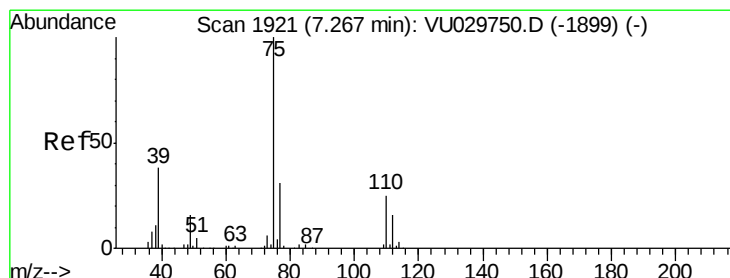
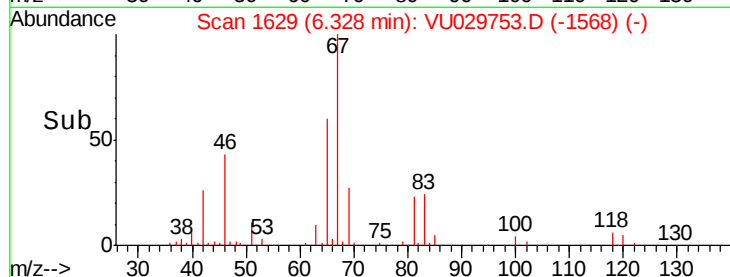
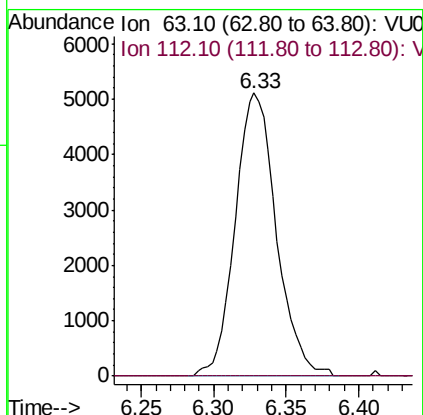
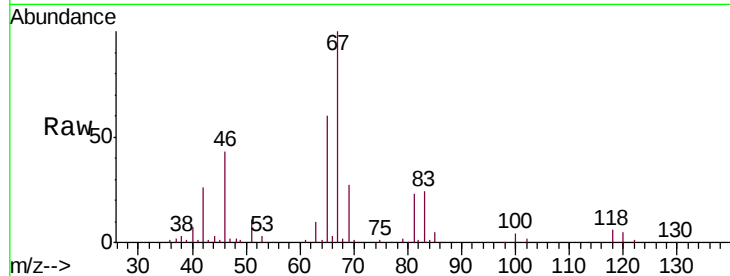




#37
 1,2-Dichloropropane
 Concen: 0.666 ug/L
 RT: 6.33 min Scan# 1629
 Delta R.T. -0.10 min
 Lab File: VU029753.D
 Acq: 01 Mar 2019 10:58

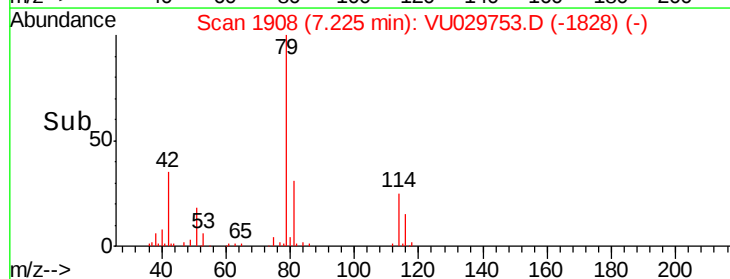
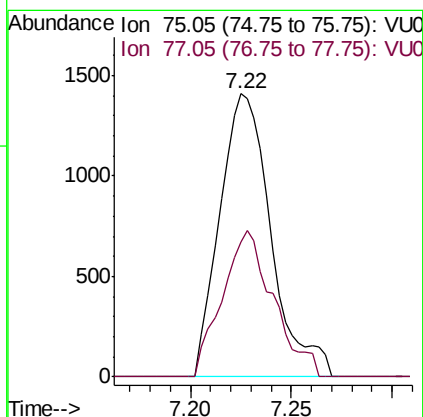
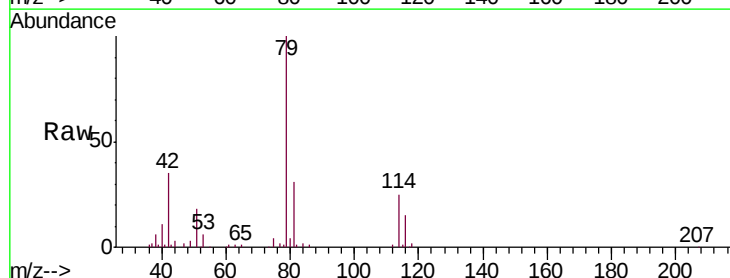
Instrument :
 MSVOA_U
 ClientSampleId :
 CWJY0RE

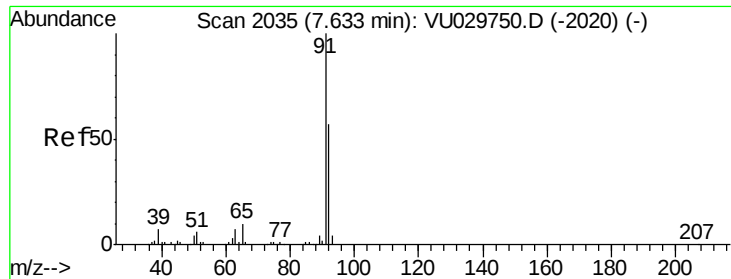
Tgt Ion: 63 Resp: 10082
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.6 5.4#



#39
 cis-1,3-Dichloropropene
 Concen: 0.113 ug/L
 RT: 7.22 min Scan# 1908
 Delta R.T. -0.04 min
 Lab File: VU029753.D
 Acq: 01 Mar 2019 10:58

Tgt Ion: 75 Resp: 2496
 Ion Ratio Lower Upper
 75 100
 77 47.6 22.3 41.5#





#42

Toluene

Concen: 0.936 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU029753.D

Acq: 01 Mar 2019 10:58

Instrument :

MSVOA_U

ClientSampleId :

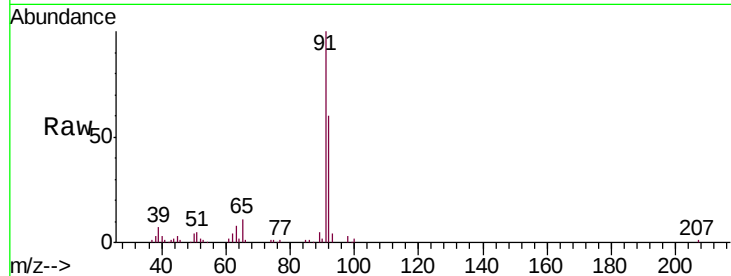
CWJY0RE

Tgt Ion: 91 Resp: 63805

Ion Ratio Lower Upper

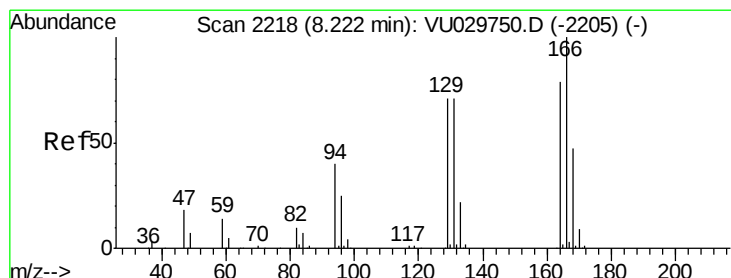
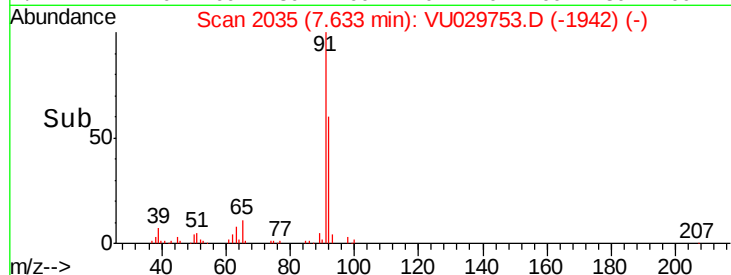
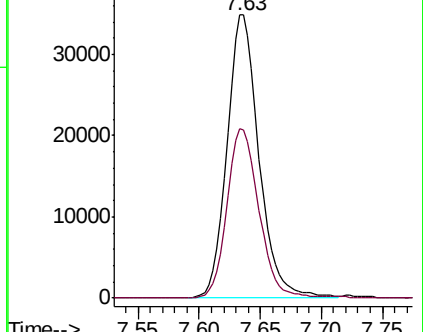
91 100

92 59.9 40.1 74.5



Abundance Ion 91.15 (90.85 to 91.85): VU029753.D (-2125) (-)

Ion 92.15 (91.85 to 92.85): VU029753.D (-2125) (-)



#47

Tetrachloroethene

Concen: 2.595 ug/L

RT: 8.22 min Scan# 2219

Delta R.T. 0.00 min

Lab File: VU029753.D

Acq: 01 Mar 2019 10:58

Tgt Ion: 164 Resp: 40414

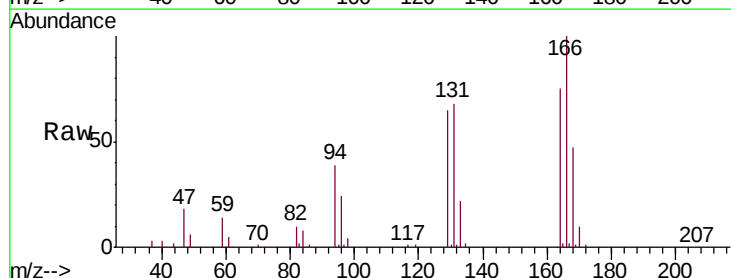
Ion Ratio Lower Upper

164 100

129 87.0 62.9 116.7

131 91.8 61.8 114.8

166 134.1 88.8 164.8

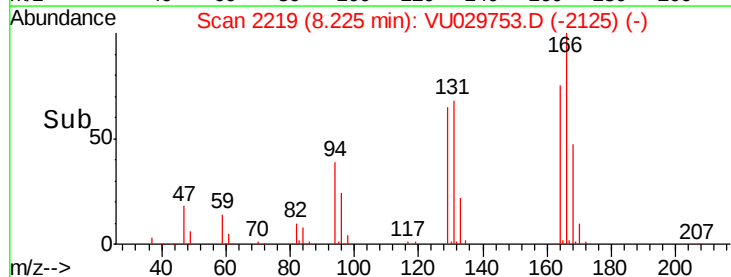
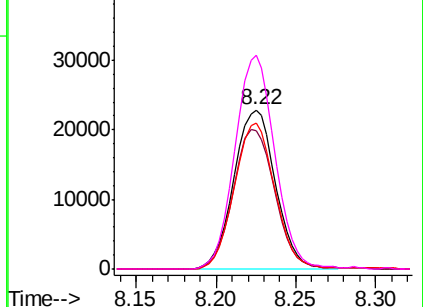


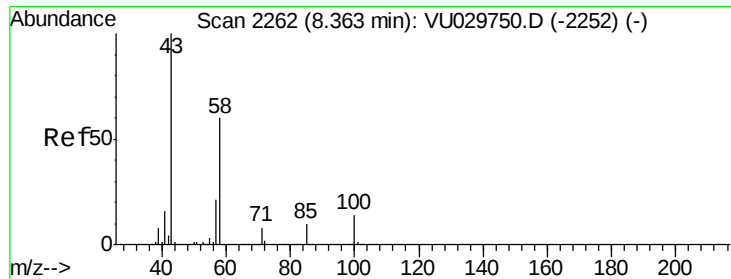
Abundance Ion 163.90 (163.60 to 164.60): VU029753.D (-2125) (-)

Ion 128.95 (128.65 to 129.65): VU029753.D (-2125) (-)

Ion 130.95 (130.65 to 131.65): VU029753.D (-2125) (-)

Ion 165.90 (165.60 to 166.60): VU029753.D (-2125) (-)

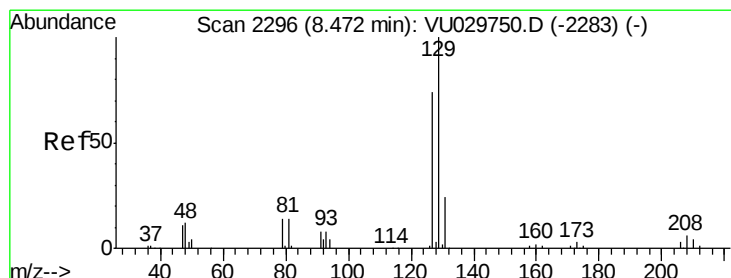
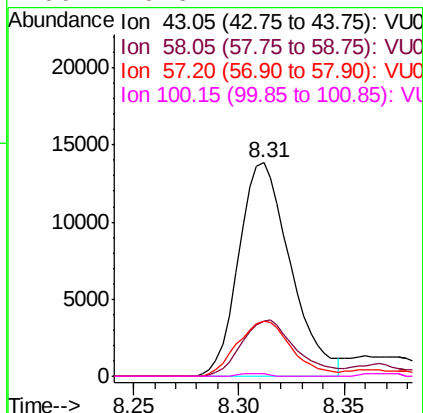
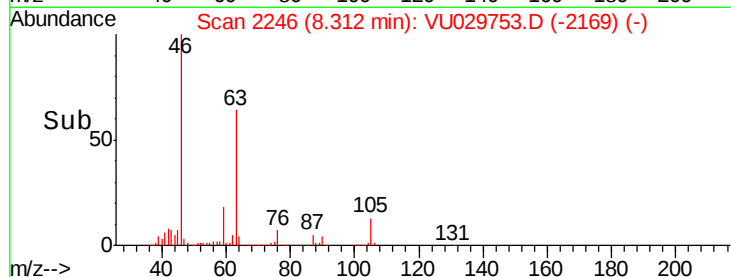
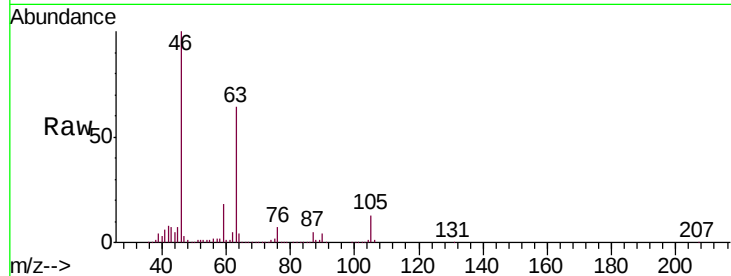




#48
2-Hexanone
Concen: 3.797 ug/L
RT: 8.31 min Scan# 2246
Delta R.T. -0.05 min
Lab File: VU029753.D
Acq: 01 Mar 2019 10:58

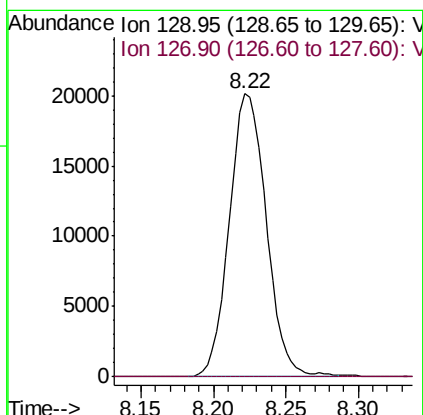
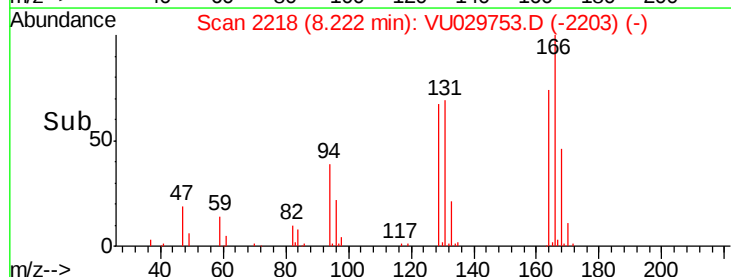
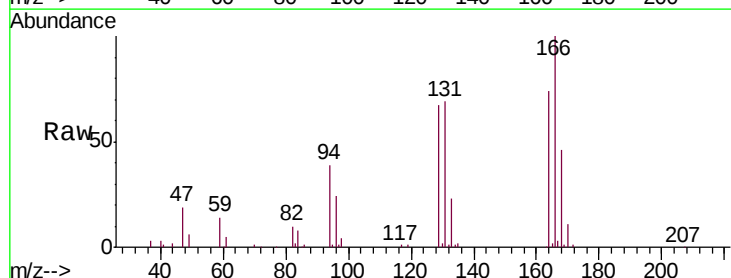
Instrument :
MSVOA_U
ClientSampleId :
CWJY0RE

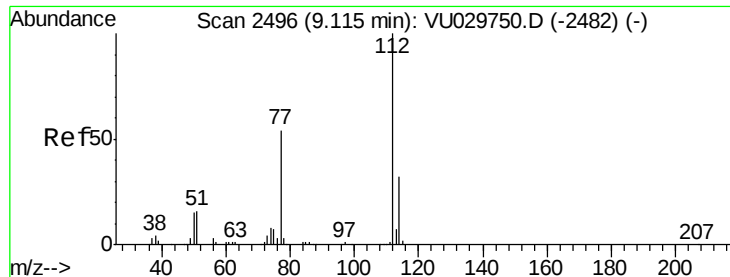
Tgt Ion: 43 Resp: 23622
Ion Ratio Lower Upper
43 100
58 27.7 46.6 69.8#
57 27.0 15.9 23.9#
100 0.6 11.4 17.2#



#49
Dibromochloromethane
Concen: 2.488 ug/L
RT: 8.22 min Scan# 2218
Delta R.T. -0.25 min
Lab File: VU029753.D
Acq: 01 Mar 2019 10:58

Tgt Ion: 129 Resp: 35714
Ion Ratio Lower Upper
129 100
127 0.0 52.5 97.5#

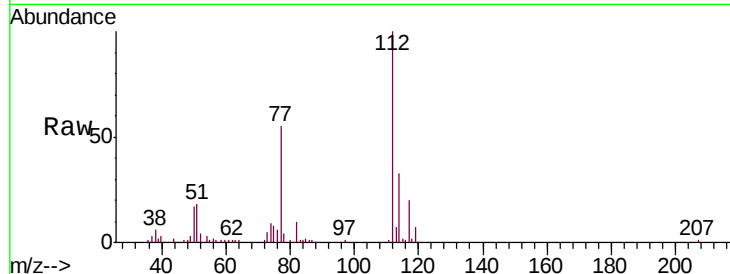




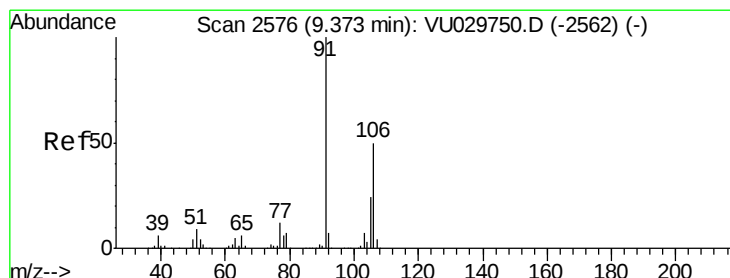
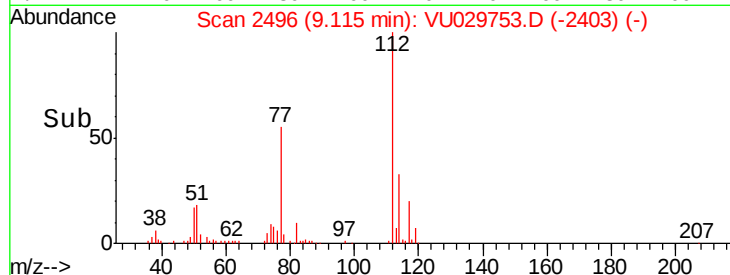
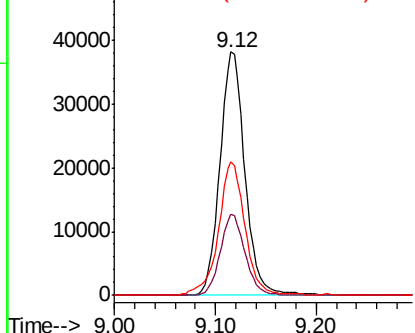
#51
Chlorobenzene
Concen: 1.412 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. 0.00 min
Lab File: VU029753.D
Acq: 01 Mar 2019 10:58

Instrument :
MSVOA_U
ClientSampleId :
CWJY0RE

Tgt Ion	Ratio	Lower	Upper
112	100		
114	33.3	22.3	41.3
77	55.0	42.7	64.1

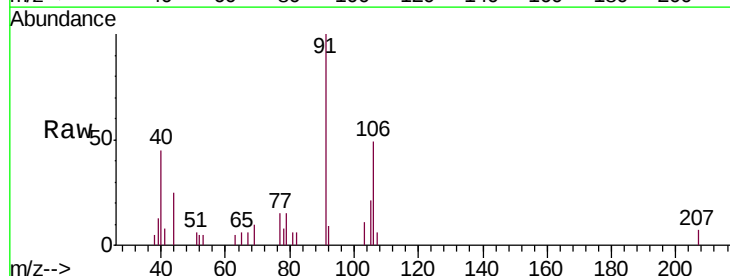


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): VU0

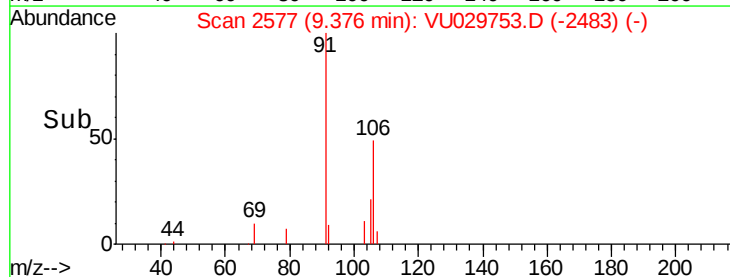
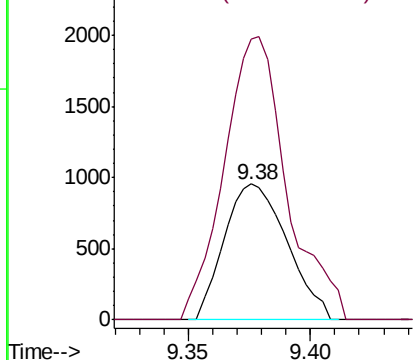


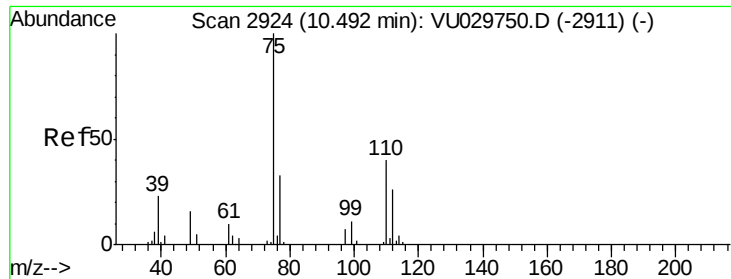
#53
m,p-xylene
Concen: 0.056 ug/L
RT: 9.38 min Scan# 2577
Delta R.T. 0.00 min
Lab File: VU029753.D
Acq: 01 Mar 2019 10:58

Tgt Ion	Ratio	Lower	Upper
106	100		
91	206.0	136.0	252.6



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





#59

1,2,3-Trichloropropane

Concen: 1.832 ug/L

RT: 11.48 min Scan# 3231

Delta R.T. 0.99 min

Lab File: VU029753.D

Acq: 01 Mar 2019 10:58

Instrument :

MSVOA_U

ClientSampleId :

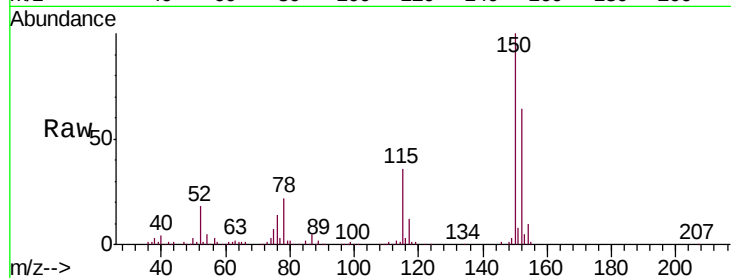
CWJY0RE

Tgt Ion: 75 Resp: 18515

Ion Ratio Lower Upper

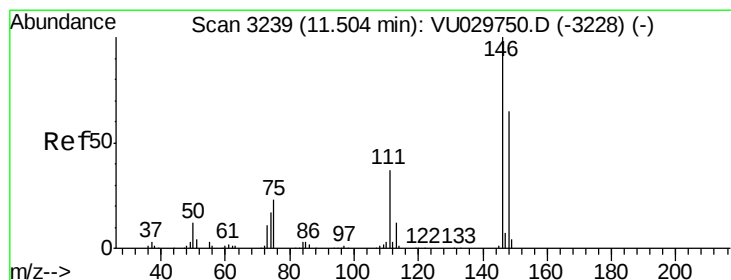
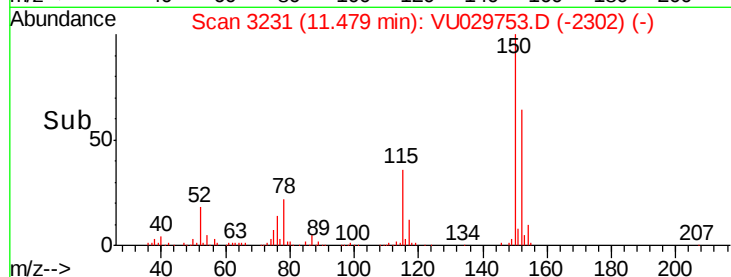
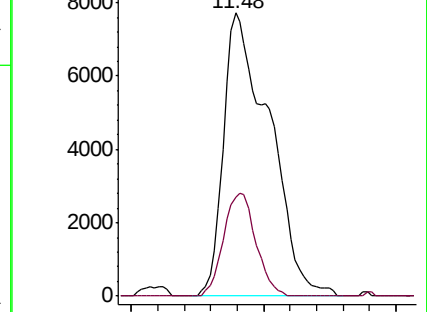
75 100

77 25.7 25.6 38.4



Abundance Ion 75.00 (74.70 to 75.70): VU029753.D (-2302) (-)

Ion 77.00 (76.70 to 77.70): VU029753.D (-2302) (-)



#63

1,4-Dichlorobenzene

Concen: 0.607 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU029753.D

Acq: 01 Mar 2019 10:58

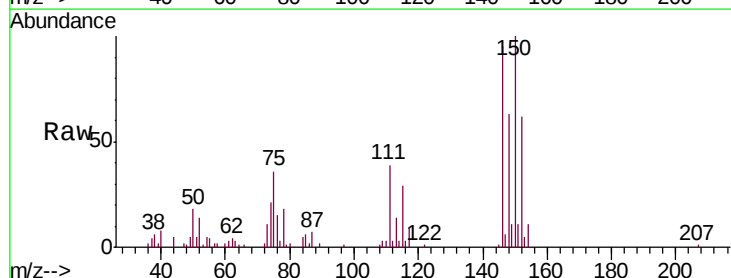
Tgt Ion: 146 Resp: 22692

Ion Ratio Lower Upper

146 100

111 40.9 25.4 47.2

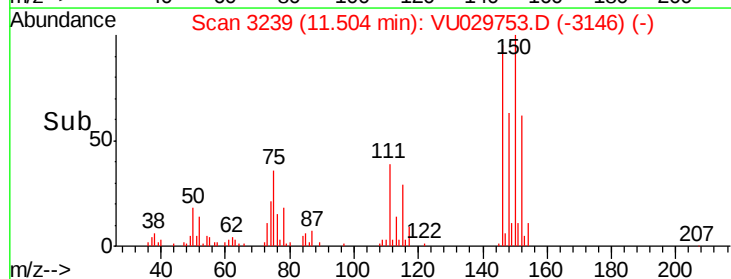
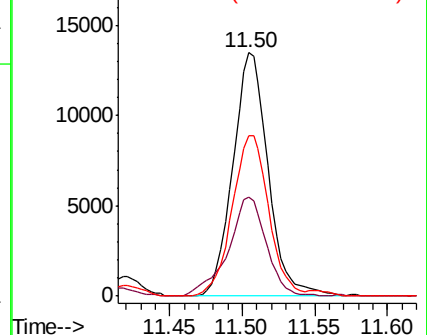
148 65.6 43.7 81.1

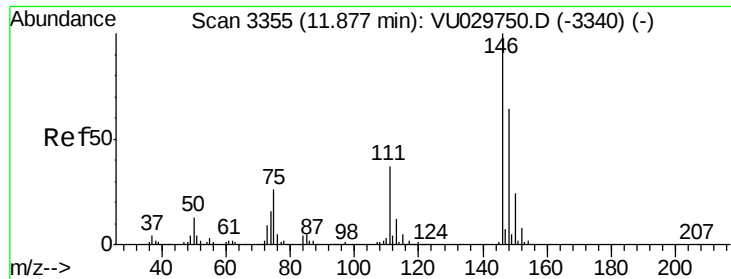


Abundance Ion 145.95 (145.65 to 146.65): VU029753.D (-3146) (-)

Ion 111.00 (110.70 to 111.70): VU029753.D (-3146) (-)

Ion 148.00 (147.70 to 148.70): VU029753.D (-3146) (-)





#65

1,2-Dichlorobenzene

Concen: 0.135 ug/L

RT: 11.87 min Scan# 3354

Delta R.T. -0.00 min

Lab File: VU029753.D

Acq: 01 Mar 2019 10:58

Instrument :

MSVOA_U

ClientSampleId :

CWJY0RE

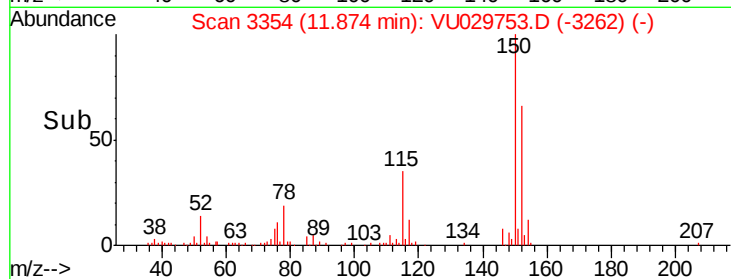
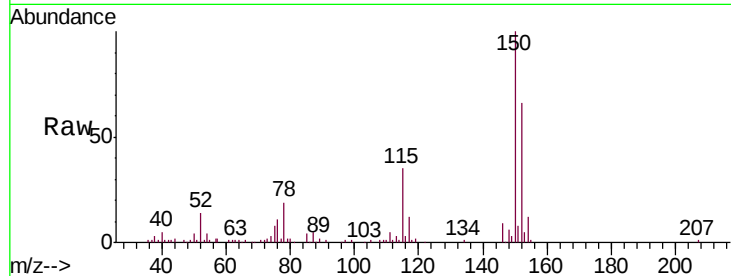
Tgt Ion:146 Resp: 4786

Ion Ratio Lower Upper

146 100

111 53.8 32.2 48.2#

148 69.9 52.2 78.4



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

