

Data File : VU029064.D
Acq On : 07 Jan 2019 17:52
Operator : MD/SY
Sample : K1048-05DL 200X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
C0950DL

Quant Time: Jan 08 03:15:57 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Jan 08 03:12:02 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	186219	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	176822	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	74962	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	69272	46.40	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	92.80%
7) Chloroethane-d5	1.67	69	54178	46.98	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	93.96%
11) 1,1-Dichloroethene-d2	2.27	63	88442	35.23	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	70.46%
21) 2-Butanone-d5	4.17	46	106274	101.60	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	101.60%
24) Chloroform-d	4.65	84	114176	48.64	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.28%
26) 1,2-Dichloroethane-d4	5.30	65	72610	50.18	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.36%
32) Benzene-d6	5.34	84	246644	49.37	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.74%
36) 1,2-Dichloropropane-d6	6.33	67	84495	49.79	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.58%
41) Toluene-d8	7.56	98	215910	47.69	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.38%
43) trans-1,3-Dichloropropene-	7.85	79	36091	47.46	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.92%
47) 2-Hexanone-d5	8.31	63	76031	94.33	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	94.33%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	114551	48.66	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	97.32%
64) 1,2-Dichlorobenzene-d4	11.86	152	78808	51.98	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.96%

Target Compounds

					Qvalue
8) Chloroethane	1.40	64	1034	0.993 ug/L #	1
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	788	0.653 ug/L #	20
12) 1,1-Dichloroethene	2.27	96	662	0.554 ug/L #	1
27) 1,2-Dichloroethane	5.38	62	936	0.526 ug/L #	74
33) Benzene	5.39	78	116313	20.662 ug/L	100
35) Methylcyclohexane	6.33	83	18193	8.037 ug/L #	18
37) 1,2-Dichloropropane	6.33	63	8123	5.162 ug/L #	90
39) cis-1,3-Dichloropropene	7.22	75	1779	0.793 ug/L #	43
44) trans-1,3-Dichloropropene	7.85	75	1185	0.593 ug/L #	71
51) Chlorobenzene	9.12	112	468777	130.346 ug/L	100
59) 1,2,3-Trichloropropane	11.42	75	4915	2.617 ug/L #	43
62) 1,3-Dichlorobenzene	11.42	146	17438	7.323 ug/L	97
63) 1,4-Dichlorobenzene	11.50	146	147442	60.097 ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	203001	81.722 ug/L	98
67) 1,3,5-Trichlorobenzene	13.50	180	17916	10.204 ug/L	98
68) 1,2,4-trichlorobenzene	13.50	180	17916	12.186 ug/L	97
70) 1,2,3-Trichlorobenzene	13.99	180	5600	3.532 ug/L	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU010719\
Quantitation Report (Not Reviewed)

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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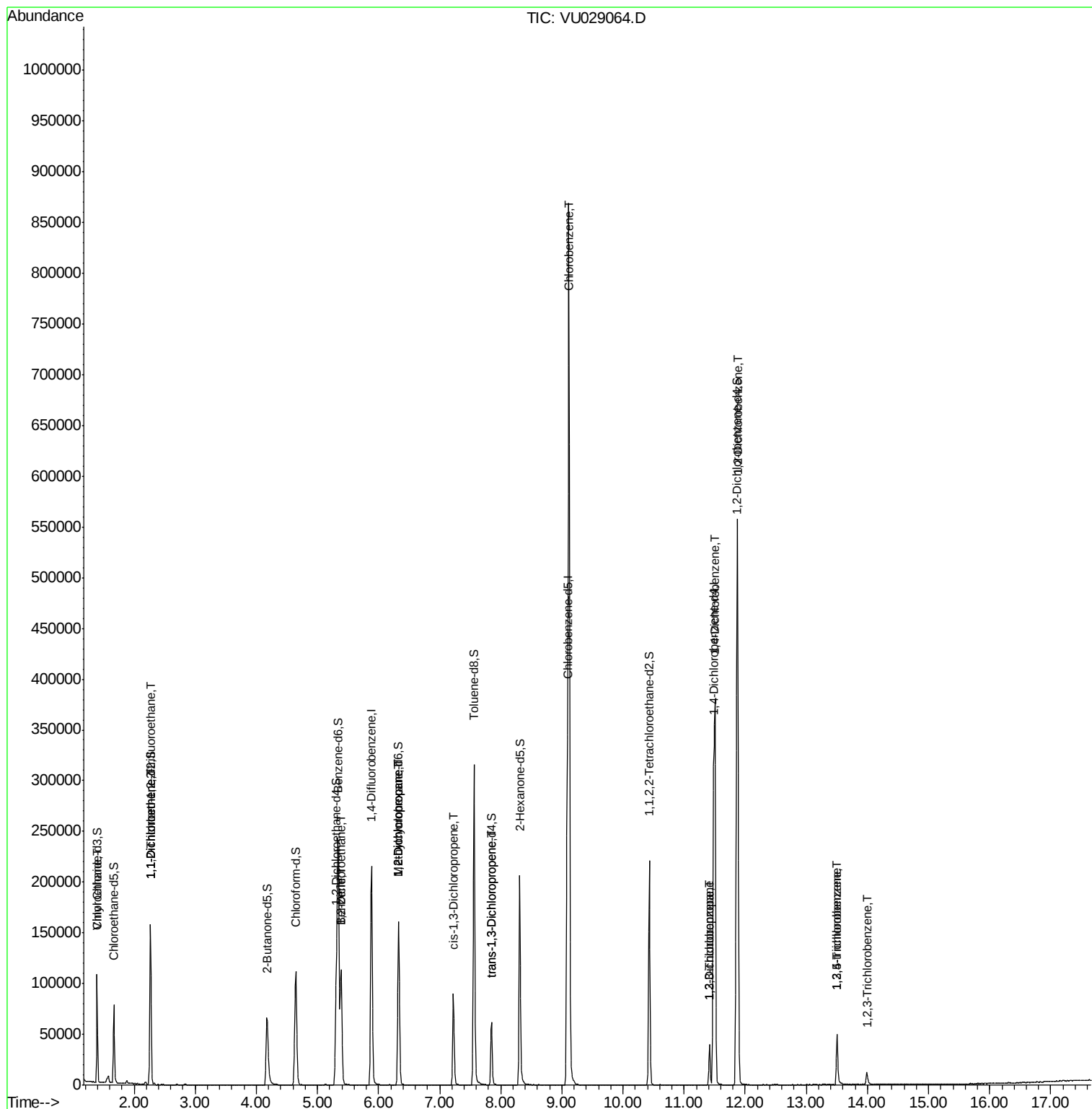
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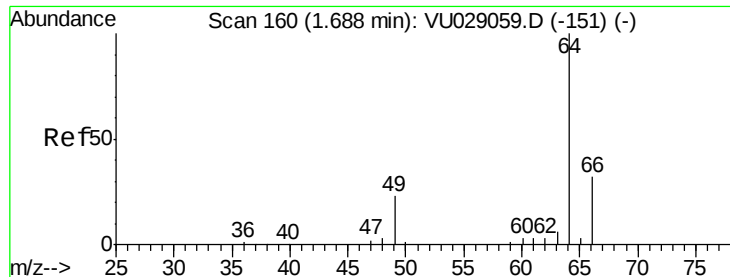
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#8

Chloroethane

Concen: 0.993 ug/L

RT: 1.40 min Scan# 70

Delta R.T. -0.29 min

Lab File: VU029064.D

Acq: 07 Jan 2019 17:52

Instrument :

MSVOA_U

ClientSampleId :

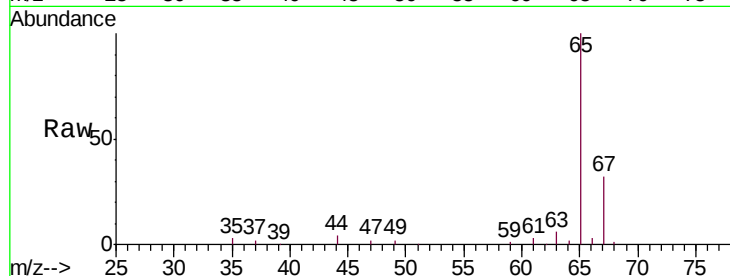
C0950DL

Tgt Ion: 64 Resp: 1034

Ion Ratio Lower Upper

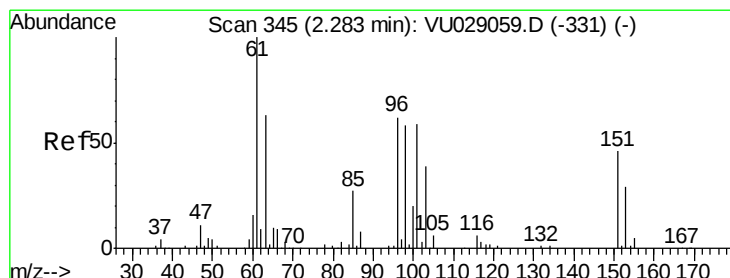
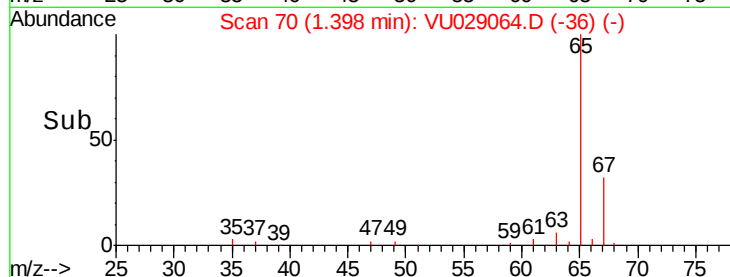
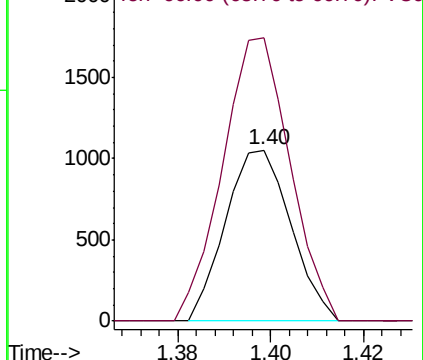
64 100

66 165.4 21.5 39.9#



Abundance Ion 64.00 (63.70 to 64.70): VU029059.D (-151) (-)

Ion 66.00 (65.70 to 66.70): VU029059.D (-151) (-)



#10

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

Concen: 0.653 ug/L

RT: 2.27 min Scan# 341

Delta R.T. -0.01 min

Lab File: VU029064.D

Acq: 07 Jan 2019 17:52

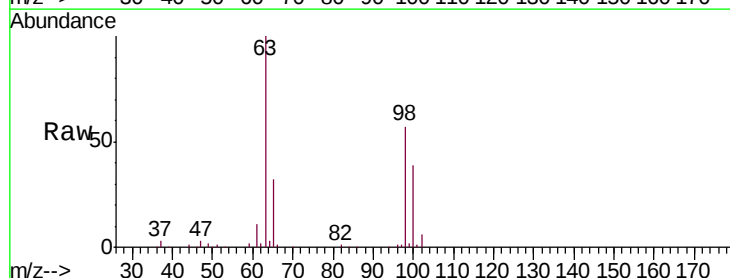
Tgt Ion: 101 Resp: 788

Ion Ratio Lower Upper

101 100

85 0.0 33.8 50.6#

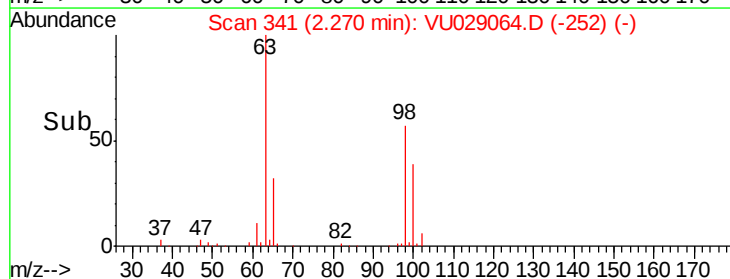
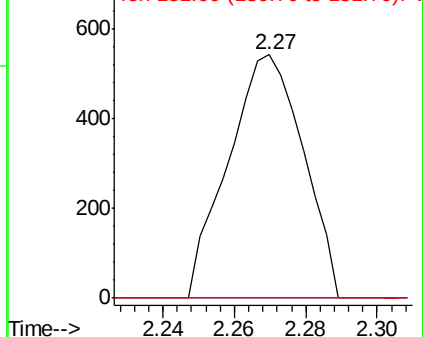
151 0.0 59.4 89.0#

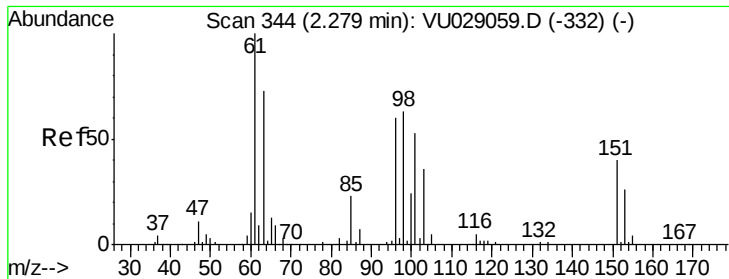


Abundance Ion 101.00 (100.70 to 101.70): VU029059.D (-331) (-)

Ion 85.00 (84.70 to 85.70): VU029059.D (-331) (-)

Ion 151.00 (150.70 to 151.70): VU029059.D (-331) (-)





#12

1,1-Dichloroethene

Concen: 0.554 ug/L

RT: 2.27 min Scan# 341

Delta R.T. -0.01 min

Lab File: VU029064.D

Acq: 07 Jan 2019 17:52

Instrument :

MSVOA_U

ClientSampleId :

C0950DL

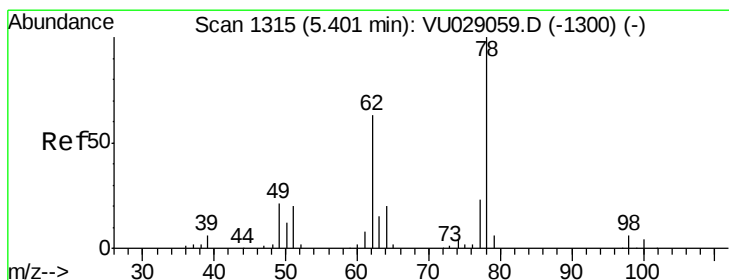
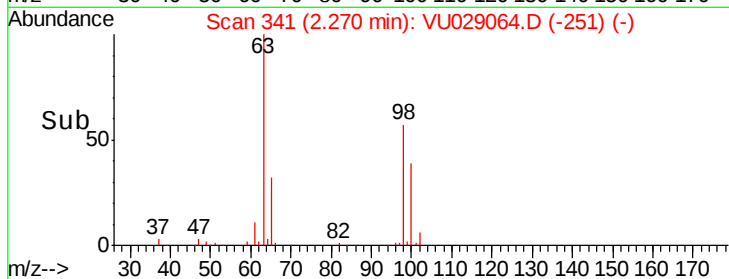
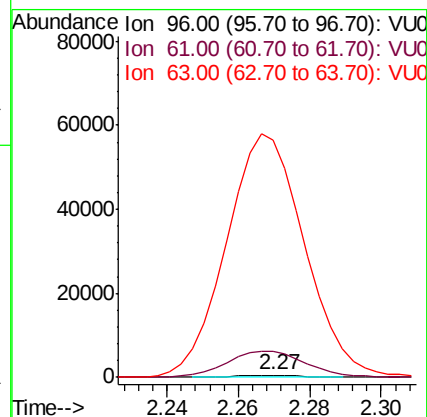
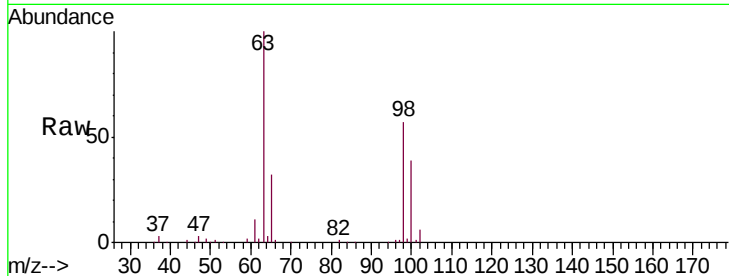
Tgt Ion: 96 Resp: 662

Ion Ratio Lower Upper

96 100

61 1329.0 119.3 221.5#

63 12140.8 107.4 199.6#



#27

1,2-Dichloroethane

Concen: 0.526 ug/L

RT: 5.38 min Scan# 1308

Delta R.T. -0.02 min

Lab File: VU029064.D

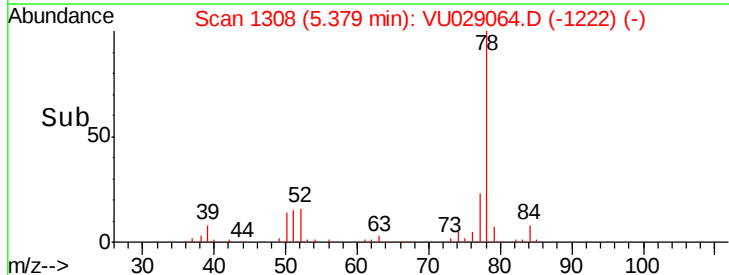
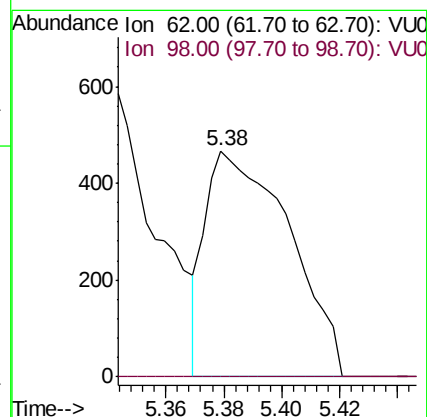
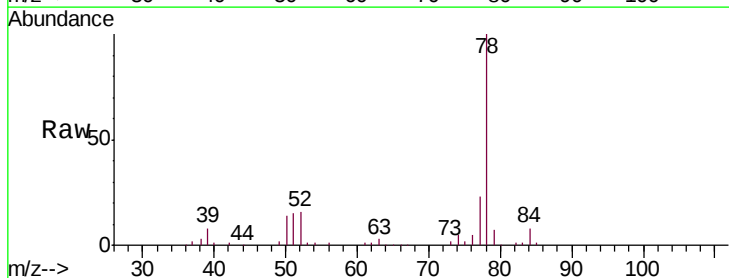
Acq: 07 Jan 2019 17:52

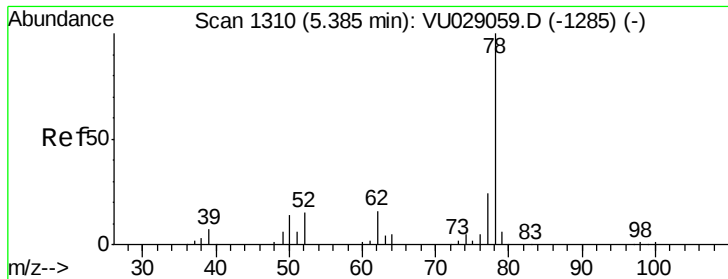
Tgt Ion: 62 Resp: 936

Ion Ratio Lower Upper

62 100

98 0.0 7.5 11.3#





#33

Benzene

Concen: 20.662 ug/L

RT: 5.39 min Scan# 1311

Delta R.T. 0.00 min

Lab File: VU029064.D

Acq: 07 Jan 2019 17:52

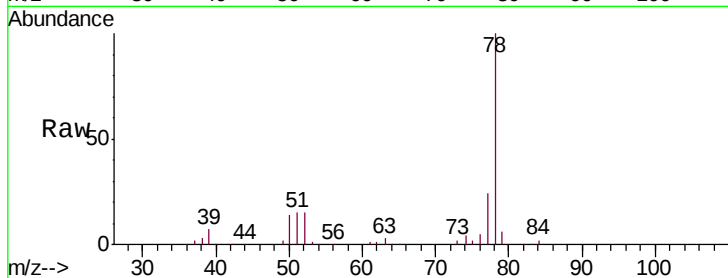
Instrument :

MSVOA_U

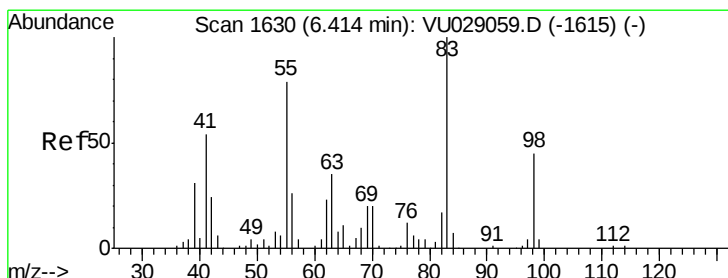
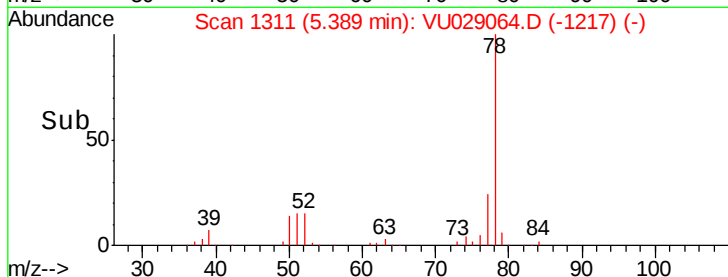
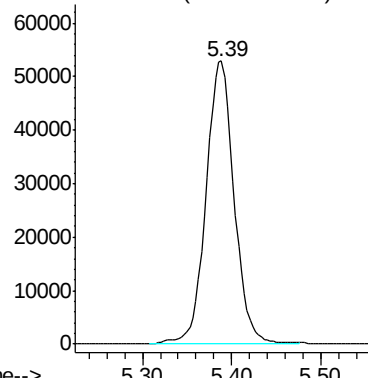
ClientSampled :

C0950DL

Tgt Ion: 78 Resp: 116313



Abundance Ion 78.00 (77.70 to 78.70): VU0



#35

Methylcyclohexane

Concen: 8.037 ug/L

RT: 6.33 min Scan# 1603

Delta R.T. -0.09 min

Lab File: VU029064.D

Acq: 07 Jan 2019 17:52

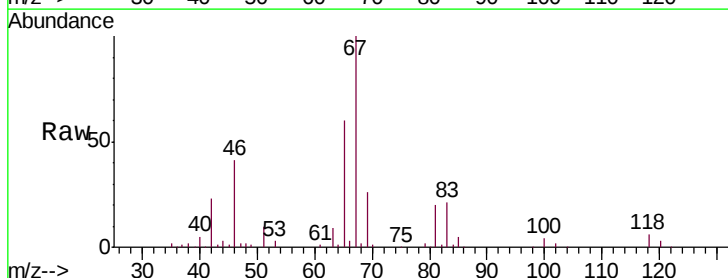
Tgt Ion: 83 Resp: 18193

Ion Ratio Lower Upper

83 100

55 0.0 63.7 95.5#

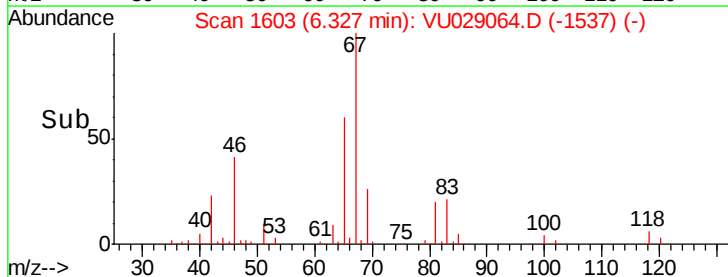
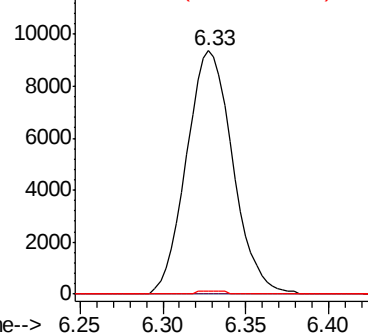
98 0.4 35.6 53.4#

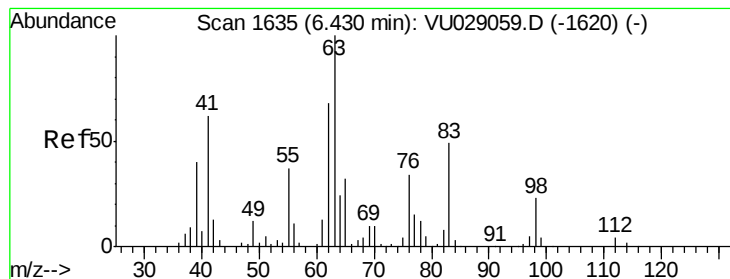


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 5.162 ug/L

RT: 6.33 min Scan# 1603

Delta R.T. -0.10 min

Lab File: VU029064.D

Acq: 07 Jan 2019 17:52

Instrument :

MSVOA_U

ClientSampleId :

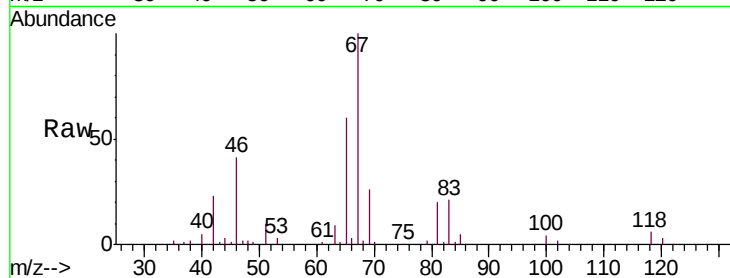
C0950DL

Tgt Ion: 63 Resp: 8123

Ion Ratio Lower Upper

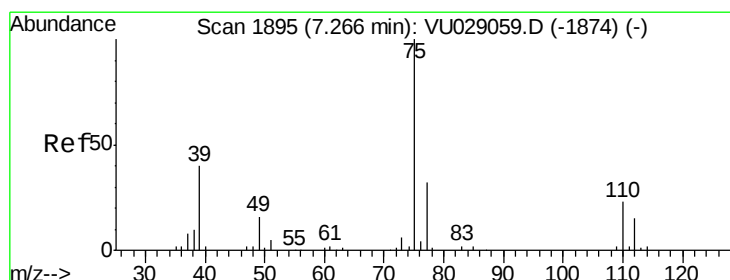
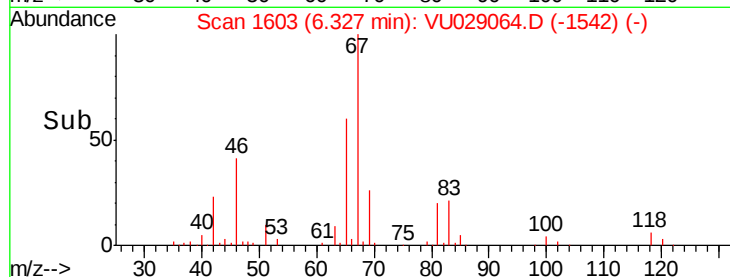
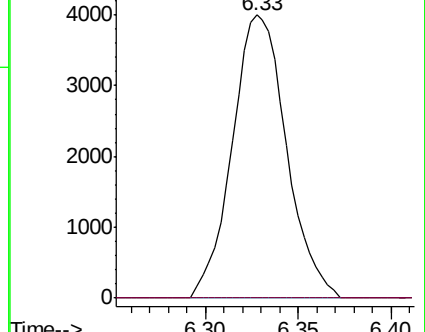
63 100

112 0.0 2.7 4.1#



Abundance Ion 63.00 (62.70 to 63.70): VU029059.D (-1620) (-)

Ion 112.00 (111.70 to 112.70): VU029059.D (-1620) (-)



#39

cis-1,3-Dichloropropene

Concen: 0.793 ug/L

RT: 7.22 min Scan# 1882

Delta R.T. -0.04 min

Lab File: VU029064.D

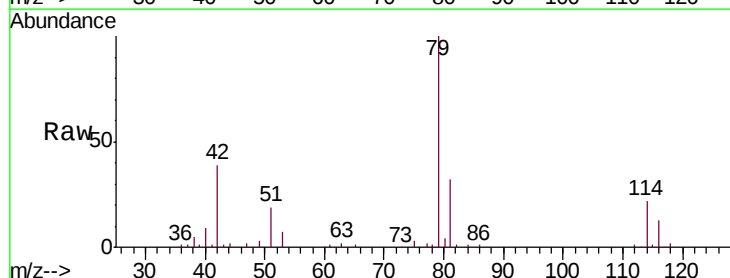
Acq: 07 Jan 2019 17:52

Tgt Ion: 75 Resp: 1779

Ion Ratio Lower Upper

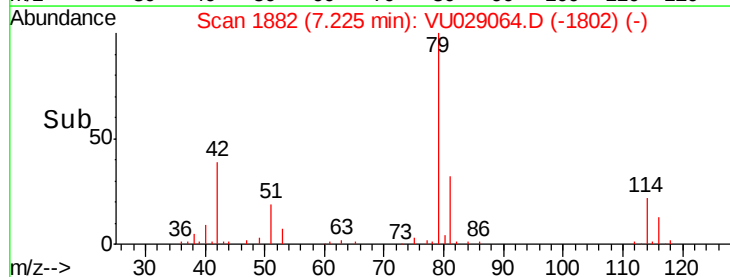
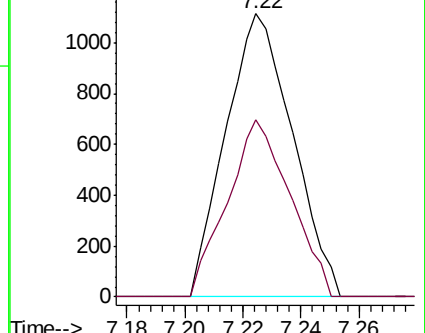
75 100

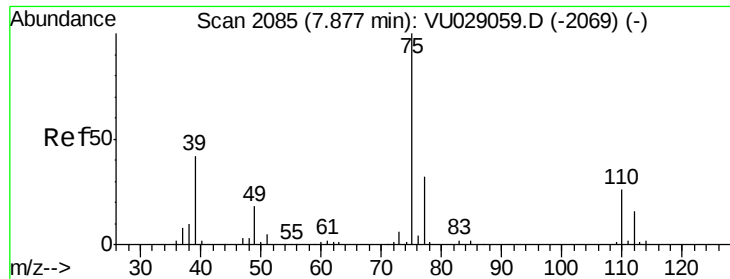
77 62.7 21.8 40.6#



Abundance Ion 75.00 (74.70 to 75.70): VU029059.D (-1874) (-)

Ion 77.00 (76.70 to 77.70): VU029059.D (-1874) (-)

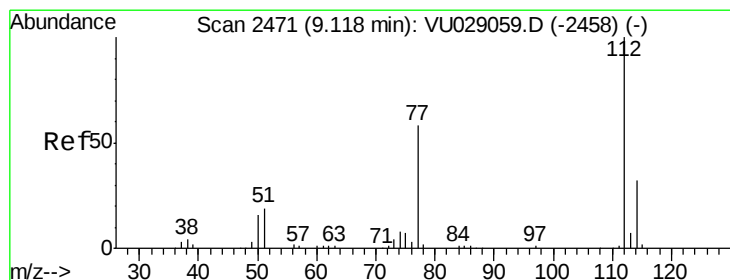
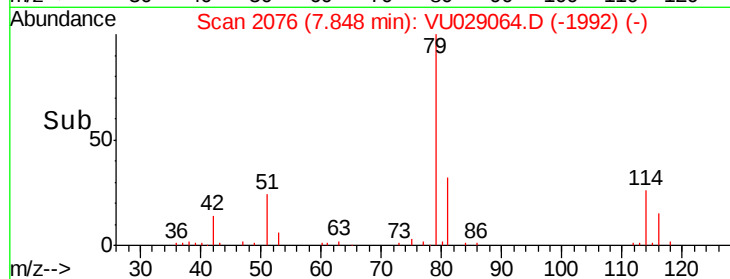
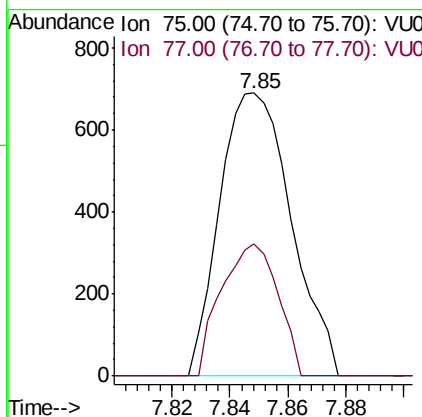
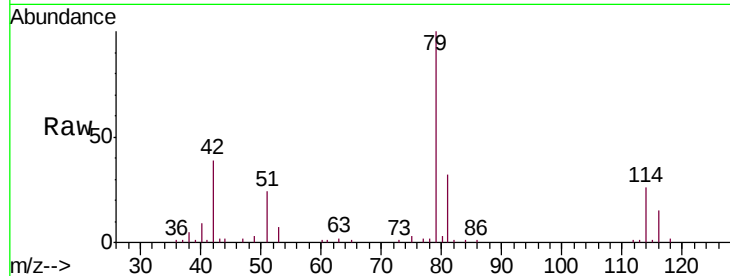




#44
trans-1,3-Dichloropropene
Concen: 0.593 ug/L
RT: 7.85 min Scan# 2076
Delta R.T. -0.03 min
Lab File: VU029064.D
Acq: 07 Jan 2019 17:52

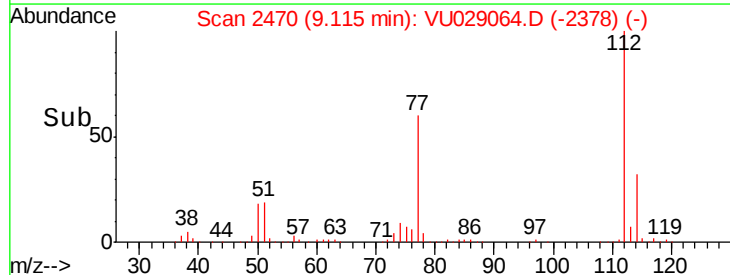
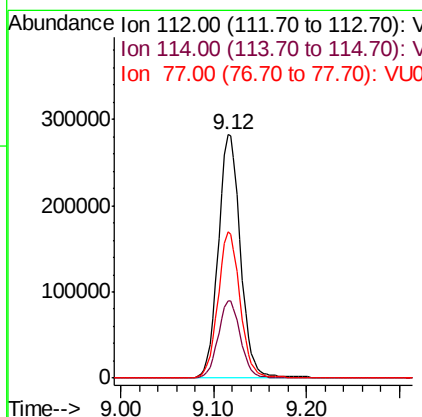
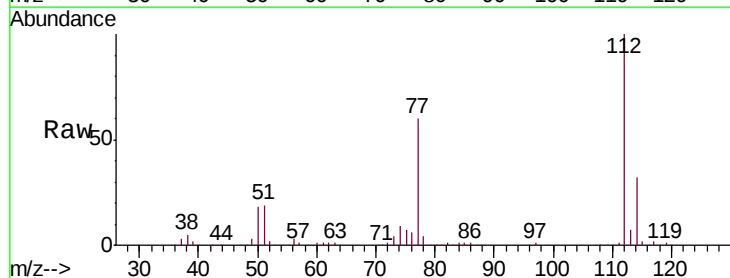
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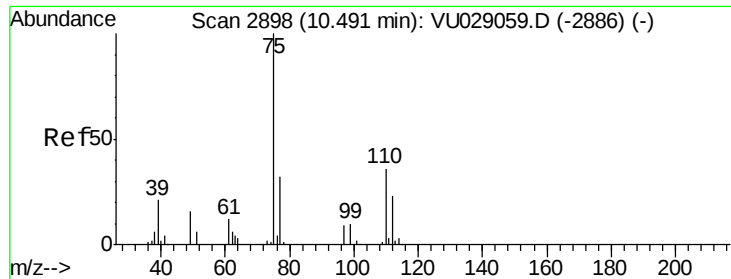
Tgt Ion: 75 Resp: 1185
Ion Ratio Lower Upper
75 100
77 47.0 21.8 40.6#



#51
Chlorobenzene
Concen: 130.346 ug/L
RT: 9.12 min Scan# 2470
Delta R.T. -0.00 min
Lab File: VU029064.D
Acq: 07 Jan 2019 17:52

Tgt Ion: 112 Resp: 468777
Ion Ratio Lower Upper
112 100
114 31.7 22.2 41.2
77 60.1 47.8 71.8





#59

1,2,3-Trichloropropane

Concen: 2.617 ug/L

RT: 11.42 min Scan# 3186

Delta R.T. 0.93 min

Lab File: VU029064.D

Acq: 07 Jan 2019 17:52

Instrument :

MSVOA_U

ClientSampleID :

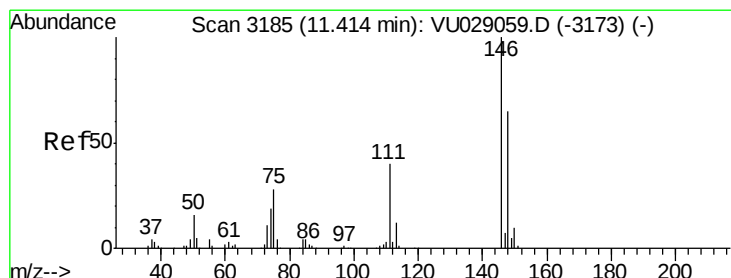
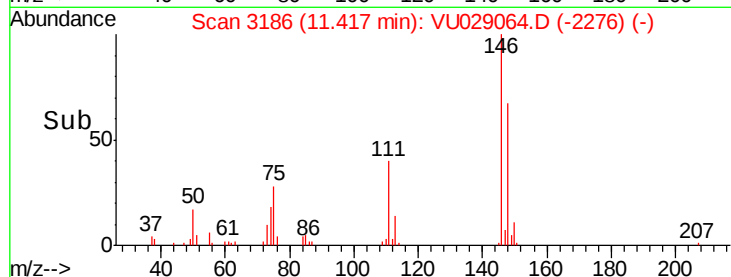
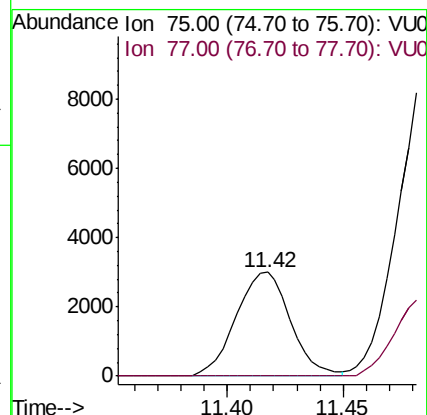
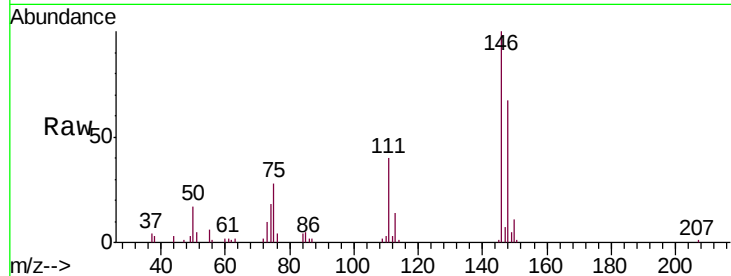
C0950DL

Tgt Ion: 75 Resp: 4915

Ion Ratio Lower Upper

75 100

77 0.0 25.5 38.3#



#62

1,3-Dichlorobenzene

Concen: 7.323 ug/L

RT: 11.42 min Scan# 3186

Delta R.T. 0.00 min

Lab File: VU029064.D

Acq: 07 Jan 2019 17:52

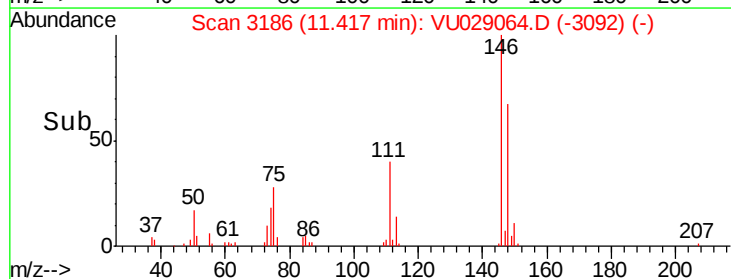
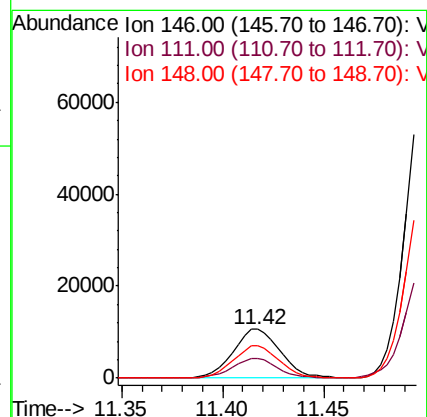
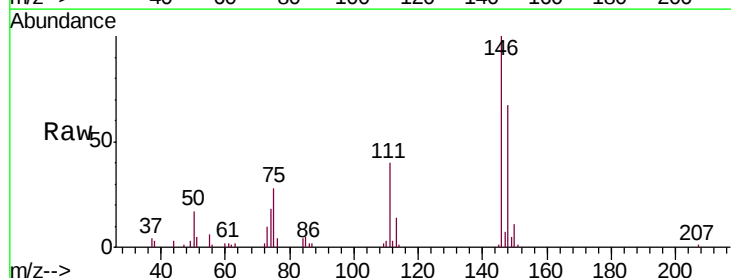
Tgt Ion: 146 Resp: 17438

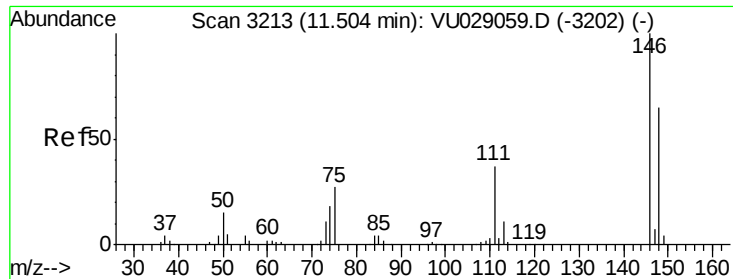
Ion Ratio Lower Upper

146 100

111 39.8 27.4 50.8

148 66.7 44.2 82.2





#63

1,4-Dichlorobenzene

Concen: 60.097 ug/L

RT: 11.50 min Scan# 3213

Delta R.T. 0.00 min

Lab File: VU029064.D

Acq: 07 Jan 2019 17:52

Instrument :

MSVOA_U

ClientSampleId :

C0950DL

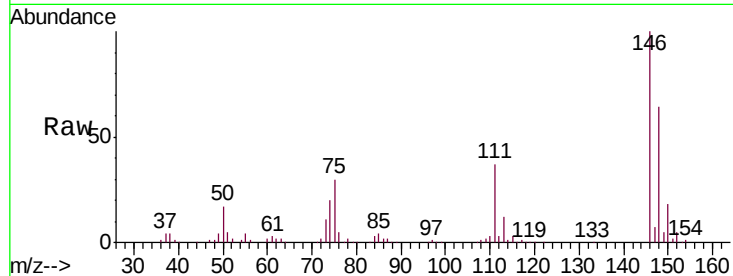
Tgt Ion:146 Resp: 147442

Ion Ratio Lower Upper

146 100

111 36.9 26.5 49.1

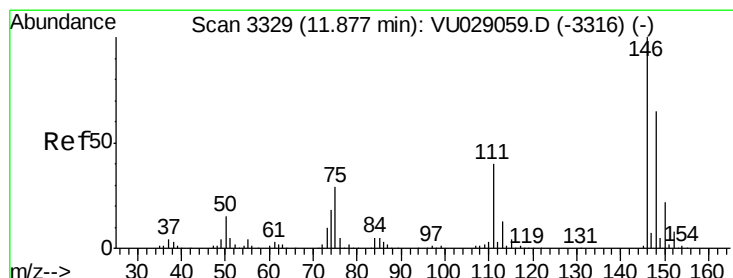
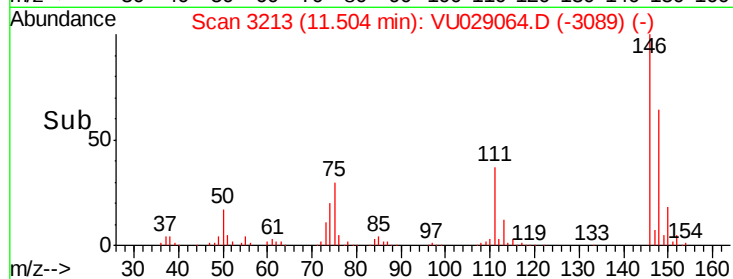
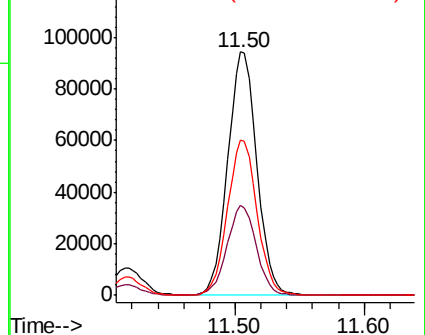
148 63.8 45.1 83.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,2-Dichlorobenzene

Concen: 81.722 ug/L

RT: 11.88 min Scan# 3329

Delta R.T. 0.00 min

Lab File: VU029064.D

Acq: 07 Jan 2019 17:52

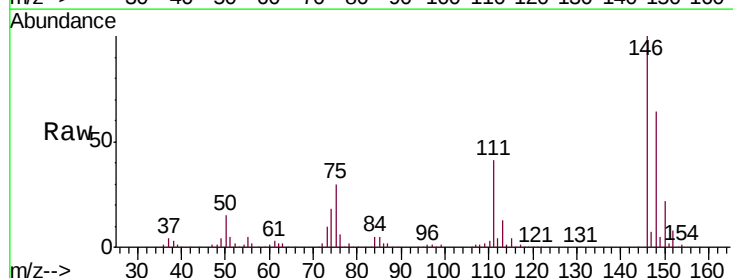
Tgt Ion:146 Resp: 203001

Ion Ratio Lower Upper

146 100

111 40.7 32.1 48.1

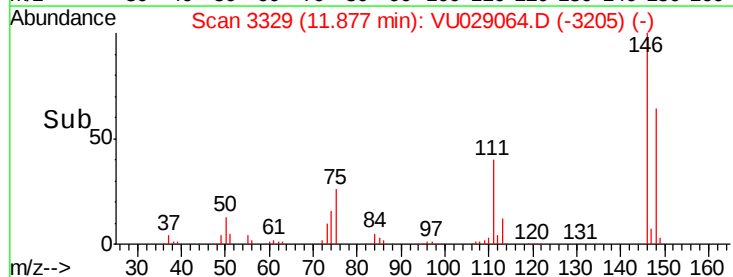
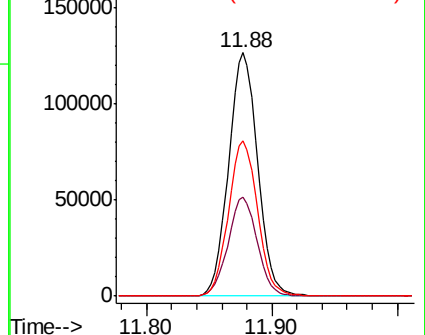
148 63.8 49.7 74.5

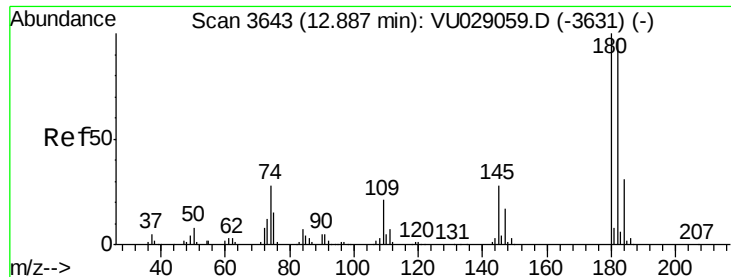


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

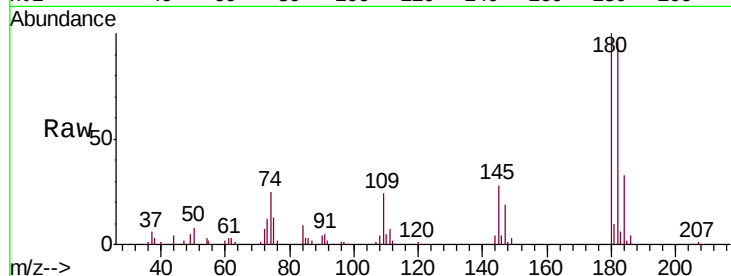




#67
 1,3,5-Trichlorobenzene
 Concen: 10.204 ug/L
 RT: 13.50 min Scan# 3835
 Delta R.T. 0.62 min
 Lab File: VU029064.D
 Acq: 07 Jan 2019 17:52

Instrument :
 MSVOA_U
 ClientSampleId :
 C0950DL

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.9	76.4	114.6
184	32.0	24.6	36.8
145	28.5	22.1	33.1



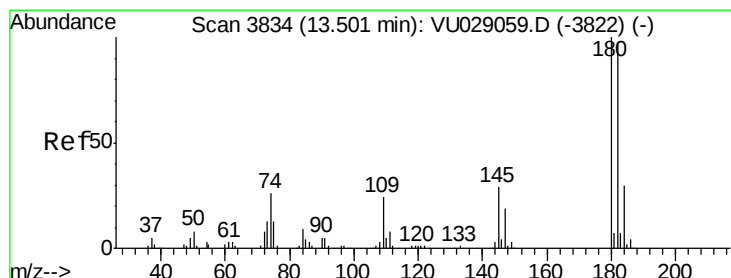
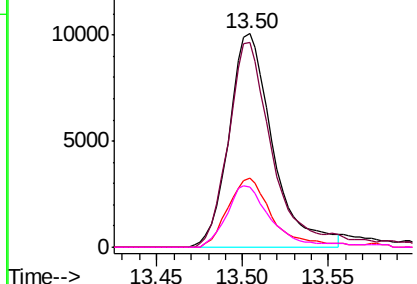
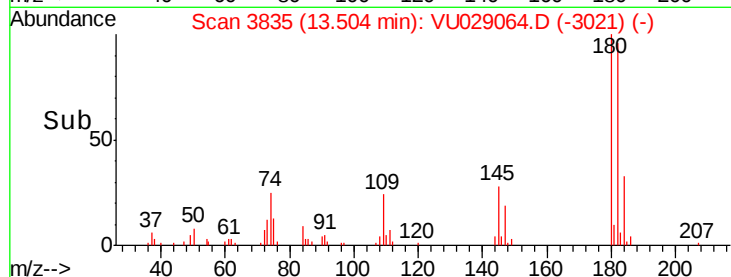
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

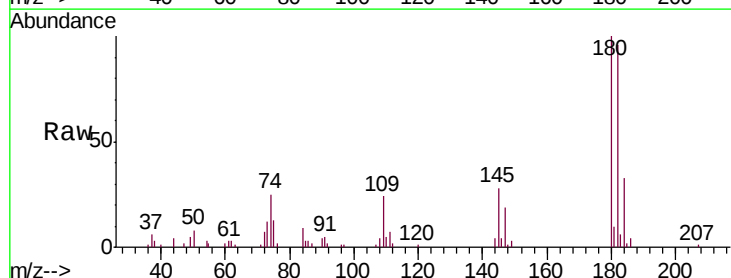
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 12.186 ug/L
 RT: 13.50 min Scan# 3835
 Delta R.T. 0.00 min
 Lab File: VU029064.D
 Acq: 07 Jan 2019 17:52

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.9	77.4	116.0
145	28.5	23.5	35.3

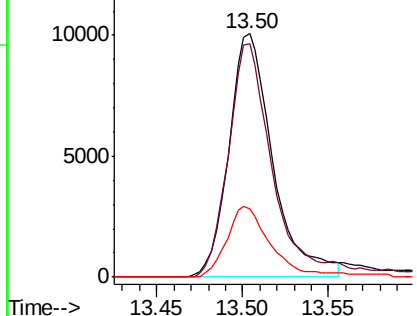
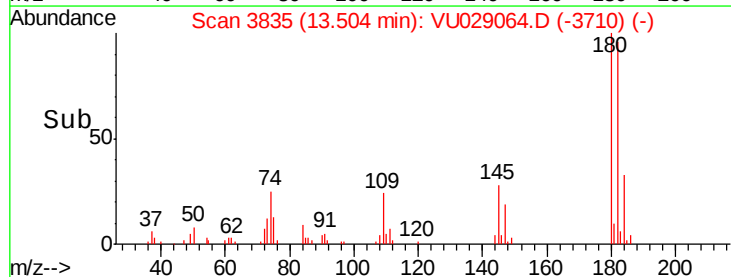


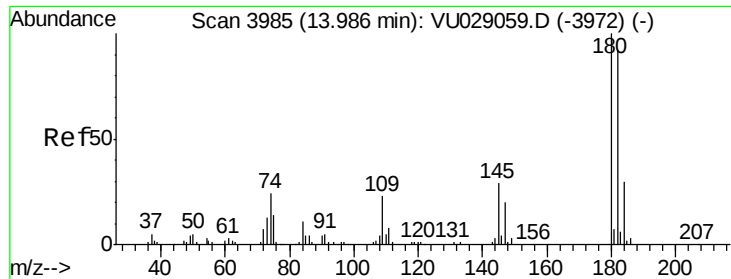
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#70
 1,2,3-Trichlorobenzene
 Concen: 3.532 ug/L
 RT: 13.99 min Scan# 3986
 Delta R.T. 0.00 min
 Lab File: VU029064.D
 Acq: 07 Jan 2019 17:52

Instrument :
 MSVOA_U
 ClientSampleId :
 C0950DL

Tgt Ion	Ratio	Lower	Upper
180	100		
182	88.2	75.8	113.8
145	30.4	24.5	36.7

