

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U102920\
 Data File : VU041013.D
 Acq On : 29 Oct 2020 12:31
 Operator : SY/MD
 Sample : L4485-14
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleID :
 MDL-WATER-07

Manual Integrations
 APPROVED

MMDadoda
 10/29/2020 2:59:33 PM

Quant Time: Oct 29 13:46:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMUTR102820WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Oct 29 12:31:13 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	110520	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	111720	5.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.81	152	48057	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	34819	4.68	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	93.60%
7) Chloroethane-d5	1.92	69	29476	4.85	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	97.00%
11) 1,1-Dichloroethene-d2	2.58	65	16842	4.68	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	93.60%
20) 2-Butanone-d5	4.67	46	165900	53.54	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	107.08%
24) Chloroform-d	5.08	84	73152	4.81	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.20%
26) 1,2-Dichloroethane-d4	5.72	65	47588	4.98	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.60%
32) Benzene-d6	5.75	84	129466	4.73	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.60%
36) 1,2-Dichloropropane-d6	6.70	67	47784	5.02	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.40%
41) Toluene-d8	7.91	98	106197	4.46	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.20%
43) trans-1,3-Dichloropropene-	8.19	79	18927	4.74	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.80%
46) 2-Hexanone-d5	8.64	63	111473	51.31	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	102.62%
56) 1,1,2,2-Tetrachloroethane-	10.75	84	43540	4.99	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	99.80%
66) 1,2-Dichlorobenzene-d4	12.19	152	41833	5.20	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	104.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	2123	0.225 ug/L	90
3) Chloromethane	1.53	50	2688	0.272 ug/L	87
5) Vinyl chloride	1.61	62	2577	0.264 ug/L #	73
6) Bromomethane	1.87	94	1391	0.267 ug/L	89
8) Chloroethane	1.94	64	1937m	0.310 ug/L	
9) Trichlorofluoromethane	2.15	101	3290	0.243 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	2201	0.280 ug/L #	88
12) 1,1-Dichloroethene	2.59	96	2289	0.306 ug/L #	1
13) Acetone	2.71	43	5767m	2.970 ug/L	
14) Carbon disulfide	2.81	76	5920	0.249 ug/L	98
15) Methyl Acetate	2.97	43	1303m	0.287 ug/L	
16) Methylene chloride	3.06	84	3702	0.414 ug/L	90
17) Methyl tert-butyl Ether	3.38	73	4879	0.250 ug/L #	80
18) trans-1,2-Dichloroethene	3.37	96	1878	0.248 ug/L	90
19) 1,1-Dichloroethane	3.89	63	3998	0.255 ug/L	93
21) 2-Butanone	4.76	43	8846m	2.808 ug/L	
22) cis-1,2-Dichloroethene	4.68	96	2105	0.260 ug/L	96

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Manual Integrations
 APPROVED

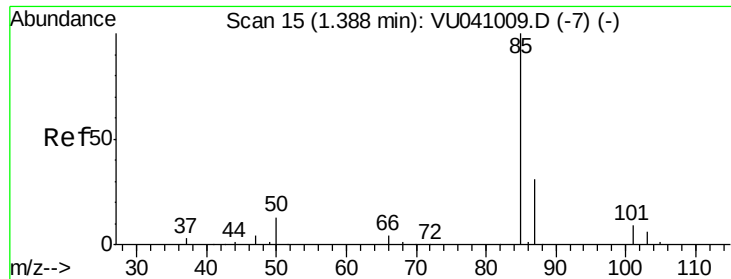
MMDadoda
 10/29/2020 2:59:33 PM

Quant Time: Oct 29 13:46:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMUTR102820WMA.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	5.00	128	968m	0.251	ug/L	
25) Chloroform	5.11	83	4953	0.309	ug/L	98
27) 1,2-Dichloroethane	5.81	62	2989	0.255	ug/L	99
29) 1,1,1-Trichloroethane	5.33	97	3367	0.243	ug/L	98
30) Cyclohexane	5.40	56	2681	0.209	ug/L #	83
31) Carbon tetrachloride	5.55	117	2935	0.248	ug/L	98
33) Benzene	5.79	78	8008	0.246	ug/L	100
34) Trichloroethene	6.55	95	2182	0.252	ug/L	91
35) Methylcyclohexane	6.77	83	2712	0.225	ug/L	95
37) 1,2-Dichloropropane	6.81	63	2139	0.232	ug/L #	89
38) Bromodichloromethane	7.11	83	2611	0.227	ug/L	94
39) cis-1,3-Dichloropropene	7.62	75	2908	0.238	ug/L	97
40) 4-Methyl-2-pentanone	7.80	43	15832	2.273	ug/L #	89
42) Toluene	7.97	91	7647	0.233	ug/L	93
44) trans-1,3-Dichloropropene	8.21	75	3745	0.329	ug/L #	79
45) 1,1,2-Trichloroethane	8.41	97	1632	0.248	ug/L #	88
47) Tetrachloroethene	8.56	164	1663	0.277	ug/L	97
48) 2-Hexanone	8.69	43	15505	2.967	ug/L #	98
49) Dibromochloromethane	8.82	129	1776	0.234	ug/L	82
50) 1,2-Dibromoethane	8.93	107	1288	0.209	ug/L #	79
51) Chlorobenzene	9.45	112	4809	0.228	ug/L	88
52) Ethylbenzene	9.57	91	7669	0.225	ug/L	98
53) m,p-Xylene	9.69	106	2503	0.203	ug/L	63
54) o-Xylene	10.10	106	2439	0.207	ug/L	98
55) Styrene	10.11	104	3854	0.188	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.78	83	2342	0.276	ug/L #	85
59) Bromoform	10.29	173	959	0.256	ug/L #	75
60) Isopropylbenzene	10.48	105	6117	0.219	ug/L	94
61) 1,2,3-Trichloropropane	10.82	75	1611	0.278	ug/L	96
62) 1,3,5-Trimethylbenzene	11.08	105	5069	0.226	ug/L	100
63) 1,2,4-Trimethylbenzene	11.46	105	4491	0.198	ug/L	97
64) 1,3-Dichlorobenzene	11.74	146	3576	0.257	ug/L	98
65) 1,4-Dichlorobenzene	11.83	146	3801	0.267	ug/L	96
67) 1,2-Dichlorobenzene	12.21	146	3515	0.261	ug/L	98
68) 1,2-Dibromo-3-chloropropan	12.99	75	383	0.287	ug/L #	70
69) 1,3,5-Trichlorobenzene	13.21	180	2434	0.255	ug/L	99
70) 1,2,4-trichlorobenzene	13.83	180	1844	0.229	ug/L	94
71) Naphthalene	14.08	128	2320	0.165	ug/L #	92
72) 1,2,3-Trichlorobenzene	14.32	180	1762	0.234	ug/L #	89

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



#2

Dichlorodifluoromethane

Concen: 0.225 ug/L

RT: 1.39 min Scan# 15

Delta R.T. 0.00 min

Lab File: VU041013.D

Acq: 29 Oct 2020 12:31

Tot Ion: 85 Resp: 2123

Ion Ratio Lower Upper

85 100

87 37.2 25.2 37.8

Instrument :

MSVOA_U

ClientSampleId :

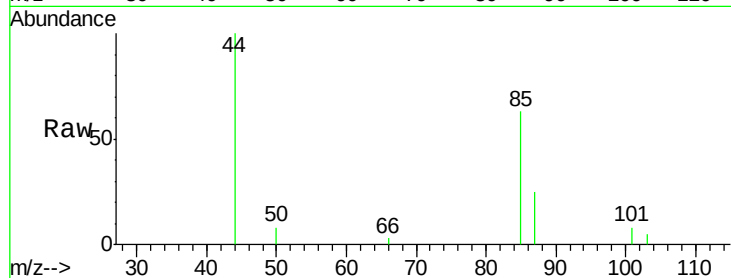
MDL-WATER-07

Manual Integrations

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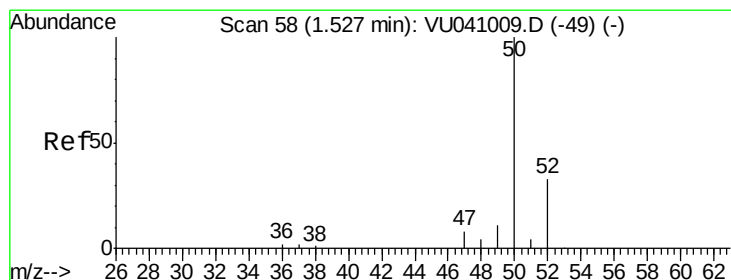
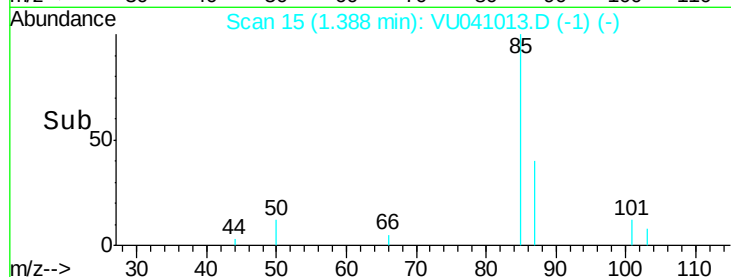
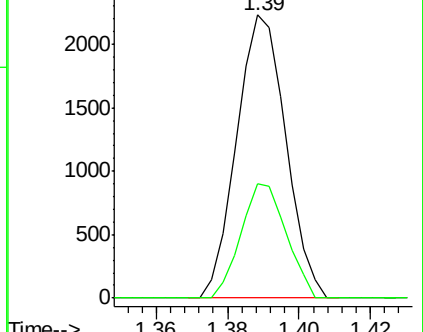
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Abundance Ion 85.00 (84.70 to 85.70): VU041009.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VU041009.D (-7) (-)



#3

Chloromethane

Concen: 0.272 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU041013.D

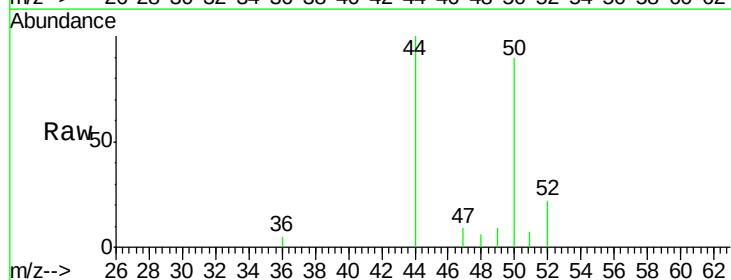
Acq: 29 Oct 2020 12:31

Tgt Ion: 50 Resp: 2688

Ion Ratio Lower Upper

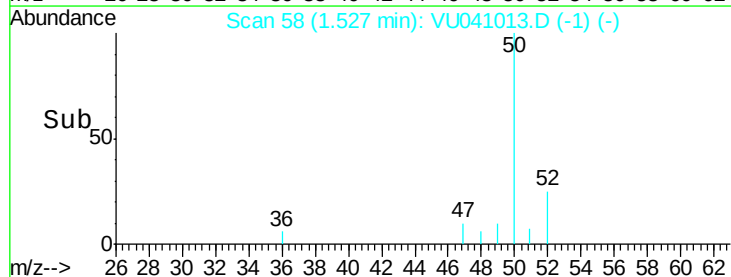
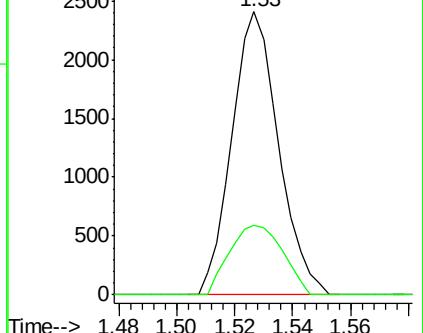
50 100

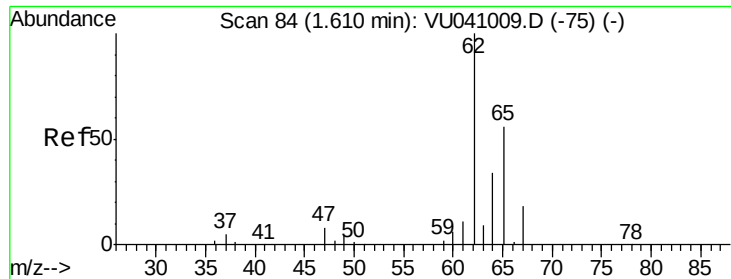
52 24.8 22.4 41.6



Abundance Ion 50.05 (49.75 to 50.75): VU041009.D (-49) (-)

Ion 52.05 (51.75 to 52.75): VU041009.D (-49) (-)





#5

Vinyl chloride

Concen: 0.264 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU041013.D

Acq: 29 Oct 2020 12:31

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-07

Tot Ion: 62 Resp: 2577

Ion Ratio Lower Upper

62 100

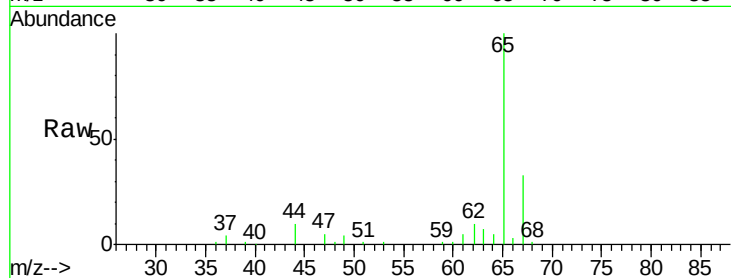
64 47.6 22.7 42.3#

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Abundance Ion 62.00 (61.70 to 62.70): VU041009.D (-75) (-)

Ion 64.10 (63.80 to 64.80): VU041013.D (-1) (-)

1.61

2500

2000

1500

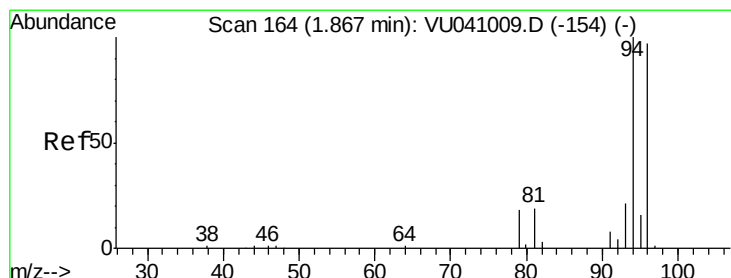
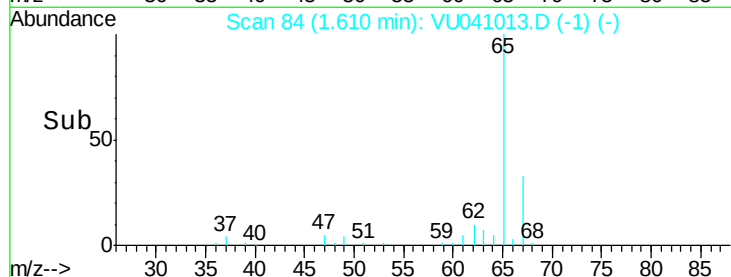
1000

500

0

1.58 1.60 1.62 1.64

Time-->



#6

Bromomethane

Concen: 0.267 ug/L

RT: 1.87 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU041013.D

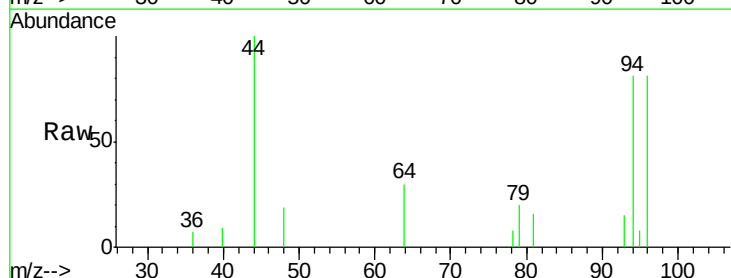
Acq: 29 Oct 2020 12:31

Tgt Ion: 94 Resp: 1391

Ion Ratio Lower Upper

94 100

96 100.6 63.2 117.4



Abundance Ion 94.00 (93.70 to 94.70): VU041009.D (-154) (-)

Ion 96.00 (95.70 to 96.70): VU041013.D (-71) (-)

1.87

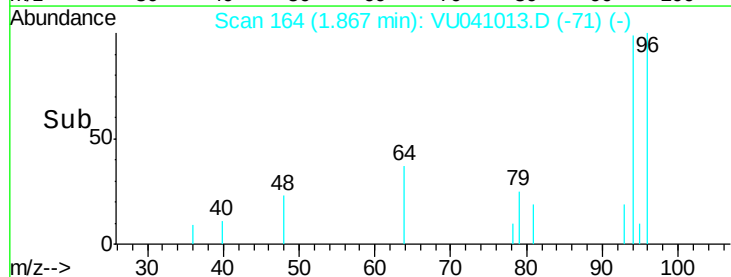
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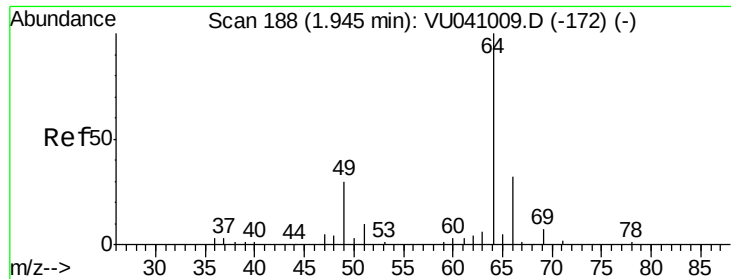
500

0

1.84 1.86 1.88 1.90

Time-->





#8

Chloroethane

Concen: 0.310 ug/L m

RT: 1.94 min Scan# 187

Delta R.T. -0.00 min

Lab File: VU041013.D

Acq: 29 Oct 2020 12:31

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-07

Tot Ion: 64 Resp: 1937

Ion Ratio Lower Upper

64 100

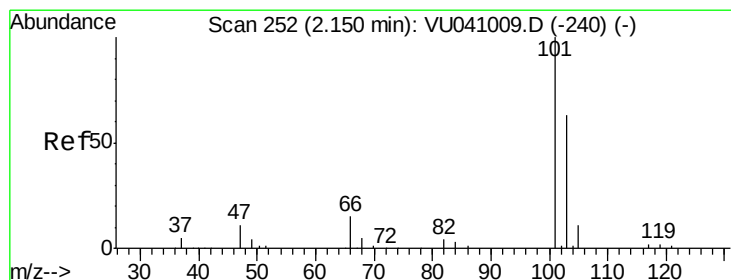
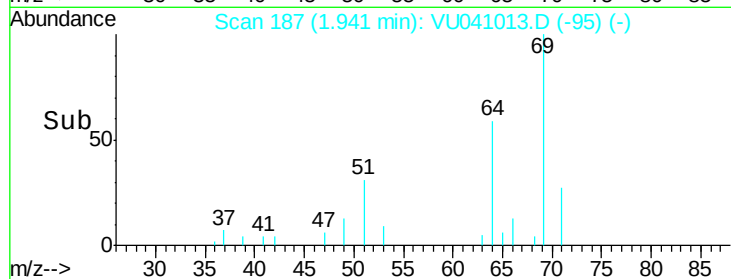
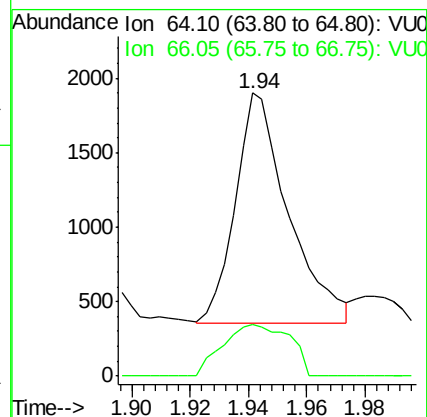
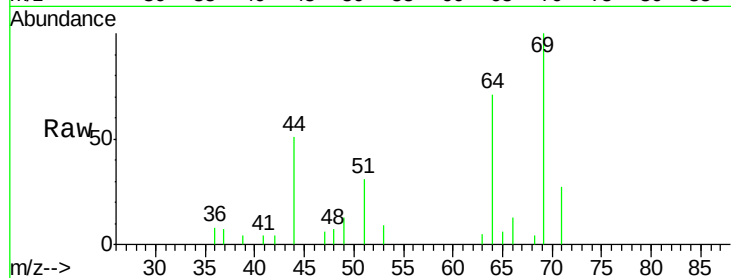
66 18.5 23.4 43.6#

Manual Integrations

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#9

Trichlorofluoromethane

Concen: 0.243 ug/L

RT: 2.15 min Scan# 252

Delta R.T. 0.00 min

Lab File: VU041013.D

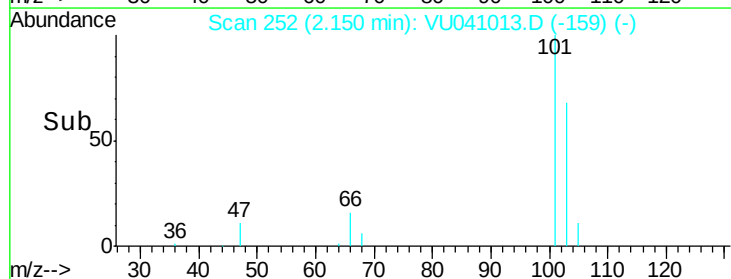
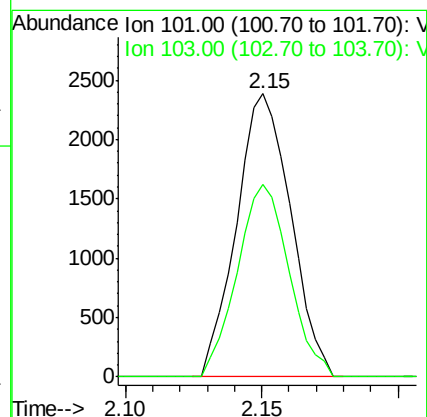
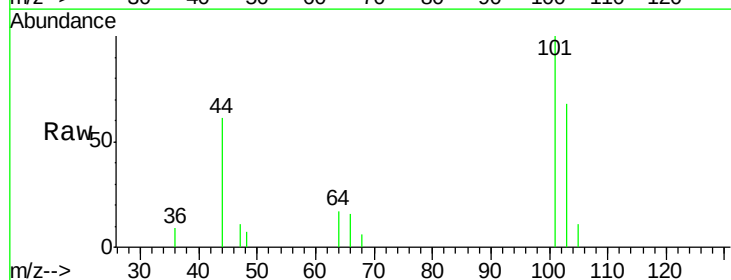
Acq: 29 Oct 2020 12:31

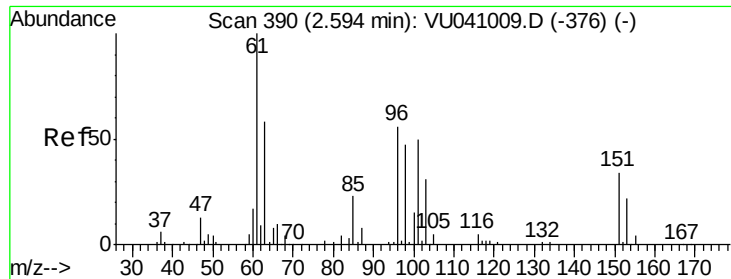
Tgt Ion: 101 Resp: 3290

Ion Ratio Lower Upper

101 100

103 64.9 51.0 76.4





#10

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

Concen: 0.280 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU041013.D

Acq: 29 Oct 2020 12:31

Instrument :

MSVOA_U

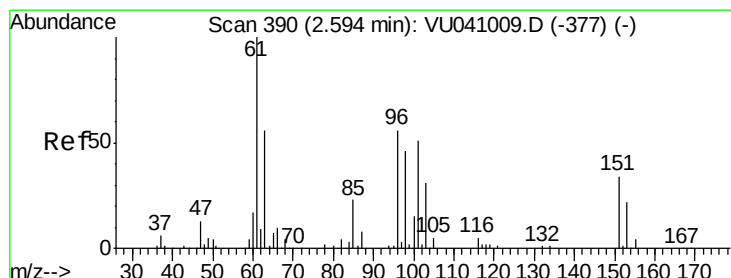
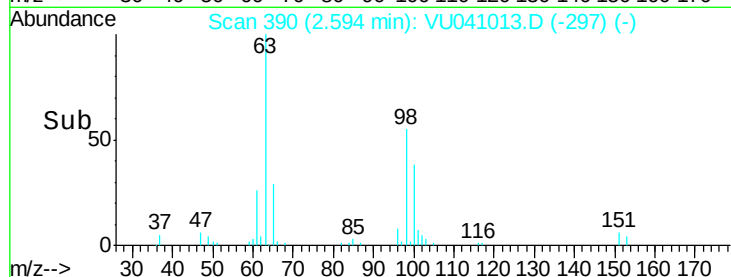
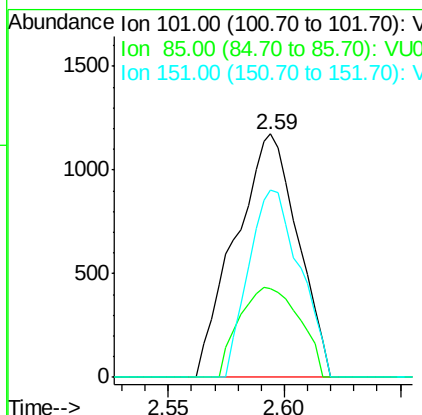
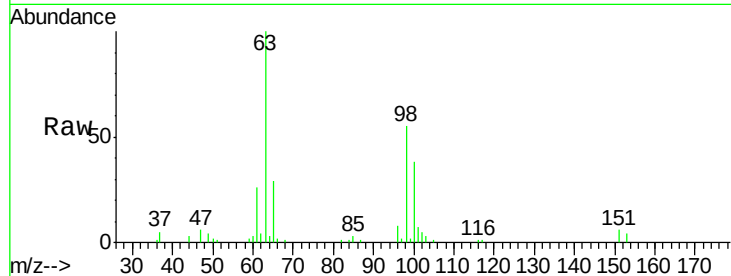
ClientSampleId :

MDL-WATER-07

Tot Ion:	101	Resp:	2201
Ion Ratio	Lower	Upper	
101	100		
85	35.7	38.1	57.1#
151	63.2	56.0	84.0

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 0.306 ug/L

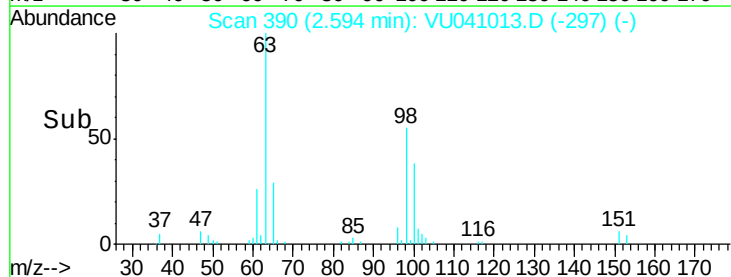
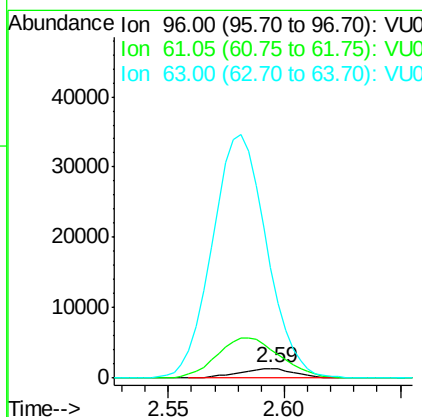
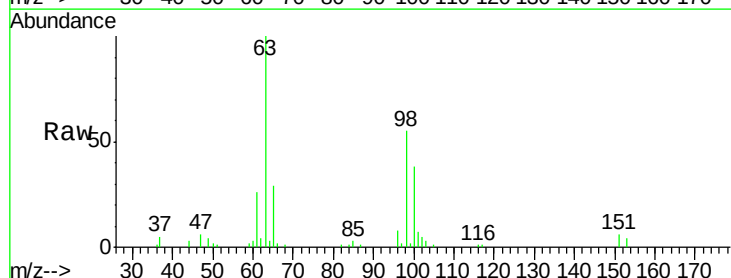
RT: 2.59 min Scan# 390

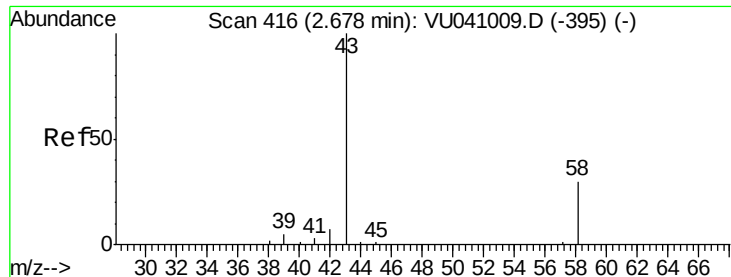
Delta R.T. 0.00 min

Lab File: VU041013.D

Acq: 29 Oct 2020 12:31

Tgt Ion:	96	Resp:	2289
Ion Ratio	Lower	Upper	
96	100		
61	305.1	130.2	241.8#
63	1177.5	83.7	155.5#





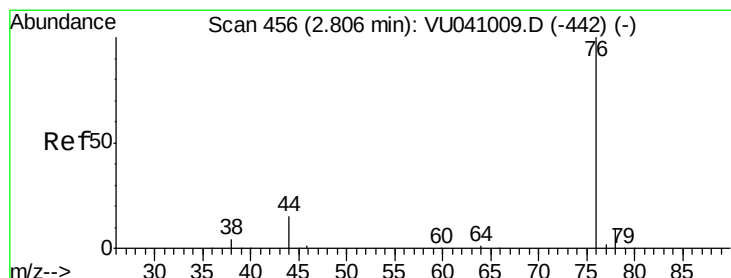
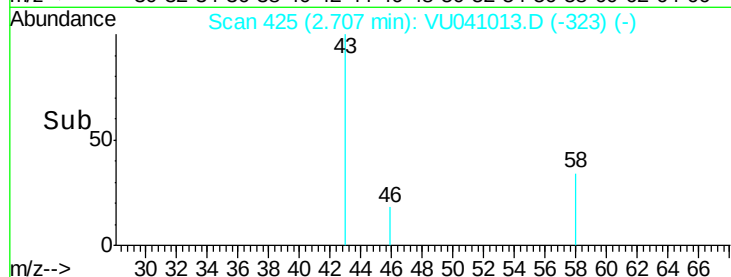
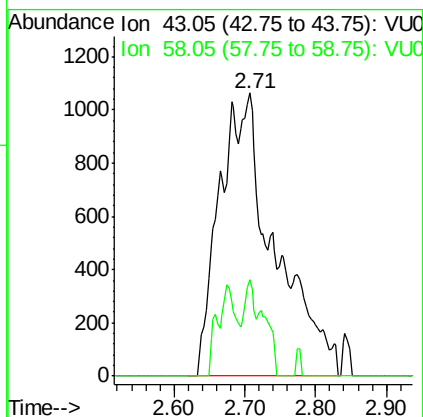
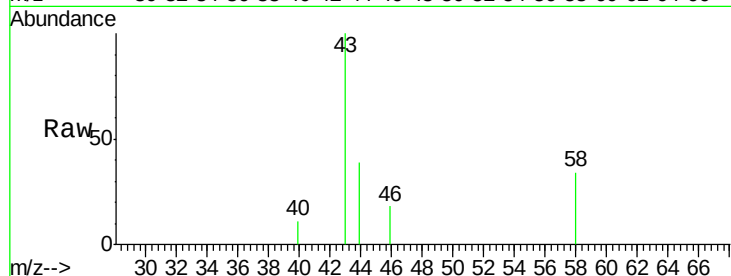
#13
Acetone
Concen: 2.970 ug/L m
RT: 2.71 min Scan# 425
Delta R.T. 0.03 min
Lab File: VU041013.D
Acq: 29 Oct 2020 12:31

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-07

Tot Ion: 43 Resp: 5767
Ion Ratio Lower Upper
43 100
58 3.2 0.0 30.8

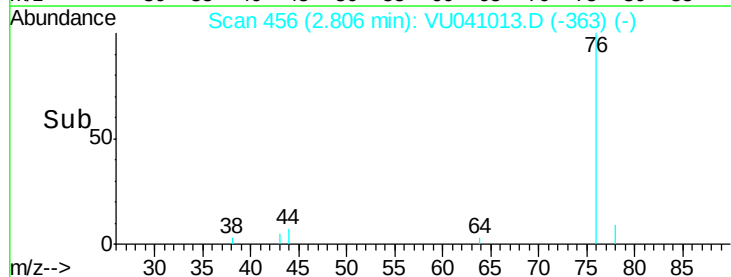
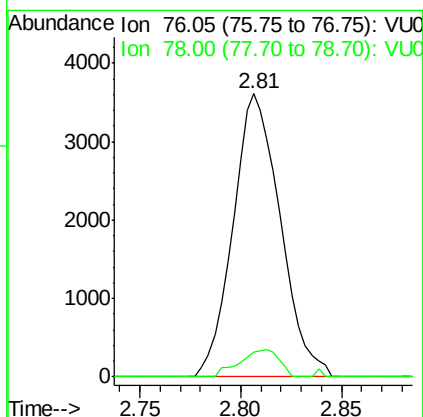
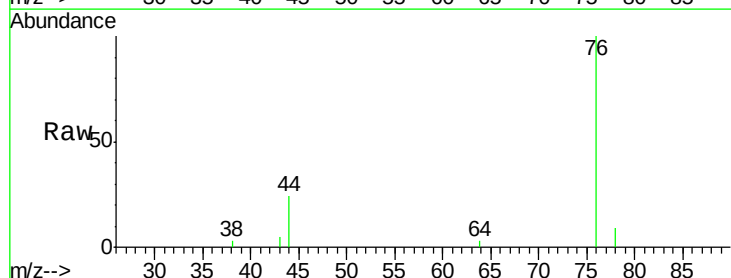
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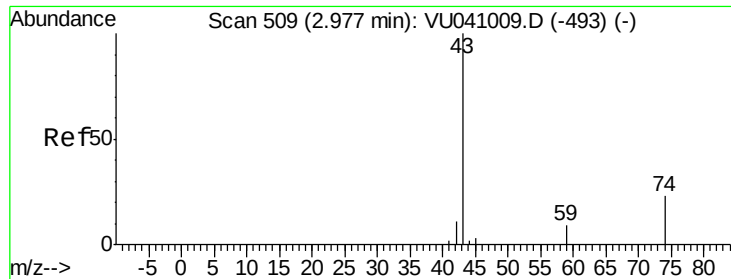
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10/29/2020 2:59:33 PM



#14
Carbon disulfide
Concen: 0.249 ug/L
RT: 2.81 min Scan# 456
Delta R.T. 0.00 min
Lab File: VU041013.D
Acq: 29 Oct 2020 12:31

Tgt Ion: 76 Resp: 5920
Ion Ratio Lower Upper
76 100
78 8.7 7.7 11.5





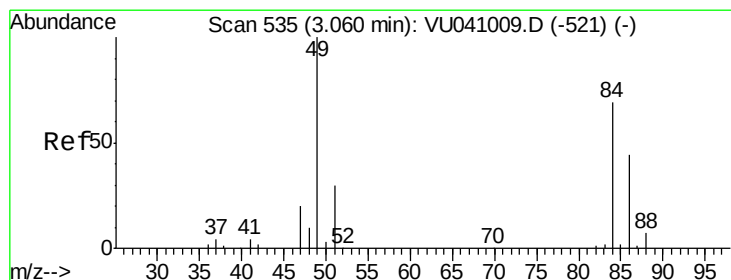
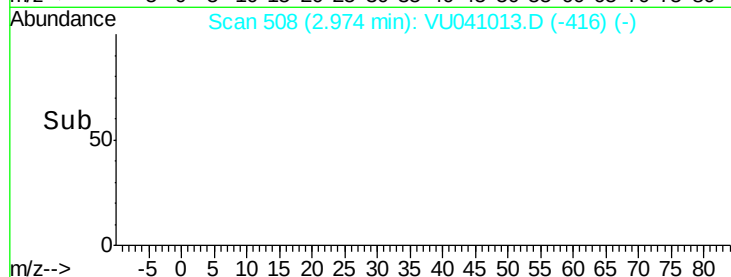
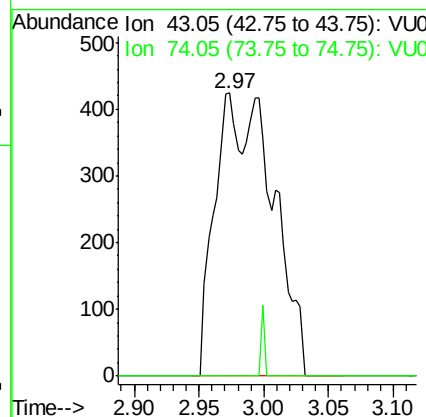
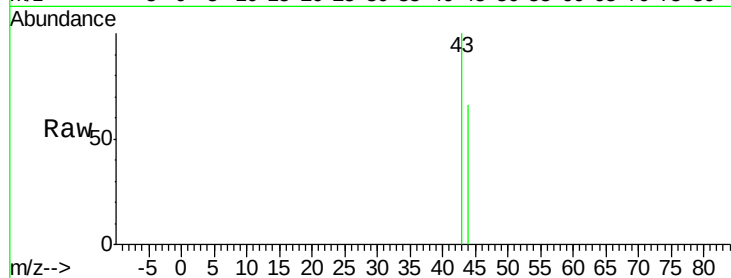
#15
Methvl Acetate
Concen: 0.287 ug/L m
RT: 2.97 min Scan# 508
Delta R.T. -0.00 min
Lab File: VU041013.D
Acq: 29 Oct 2020 12:31

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-07

Tot Ion: 43 Resp: 1303
Ion Ratio Lower Upper
43 100
74 0.0 15.6 23.4#

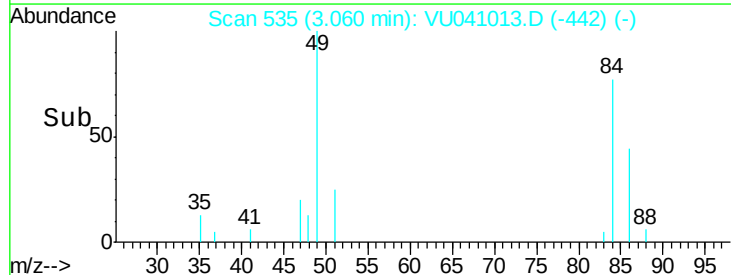
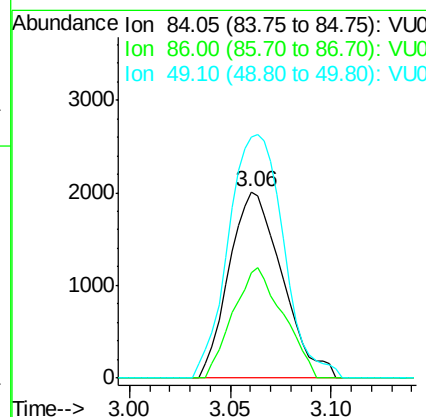
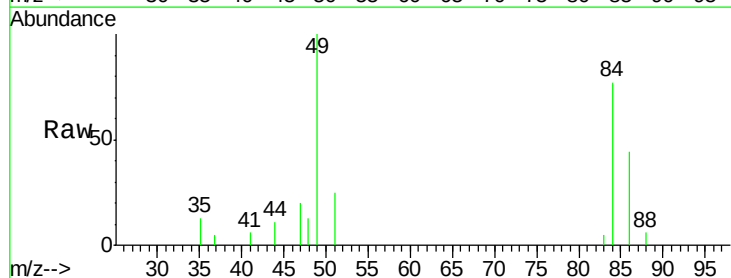
Manual Integrations
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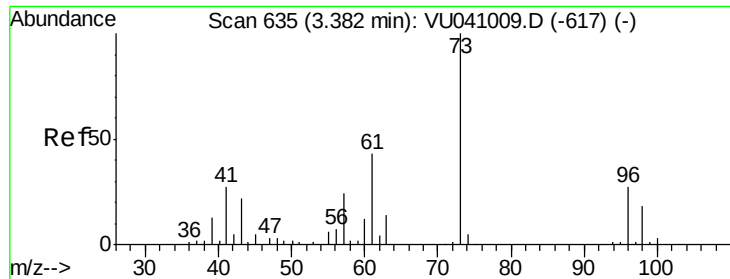
MMDadoda
10/29/2020 2:59:33 PM



#16
Methylene chloride
Concen: 0.414 ug/L
RT: 3.06 min Scan# 535
Delta R.T. 0.00 min
Lab File: VU041013.D
Acq: 29 Oct 2020 12:31

Tgt Ion: 84 Resp: 3702
Ion Ratio Lower Upper
84 100
86 56.3 44.2 82.0
49 129.1 99.3 184.3





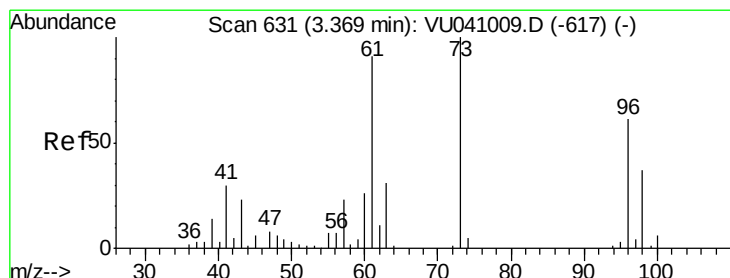
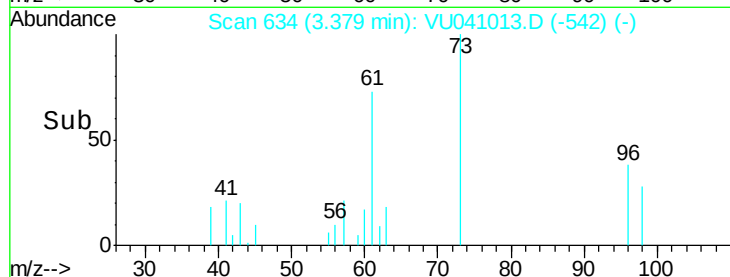
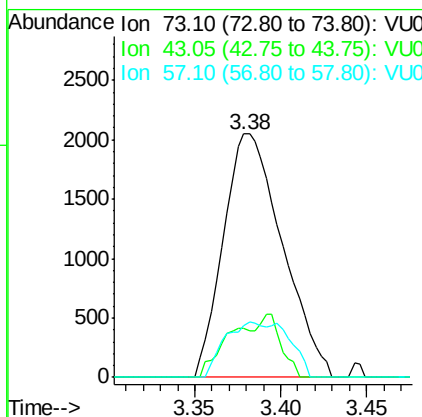
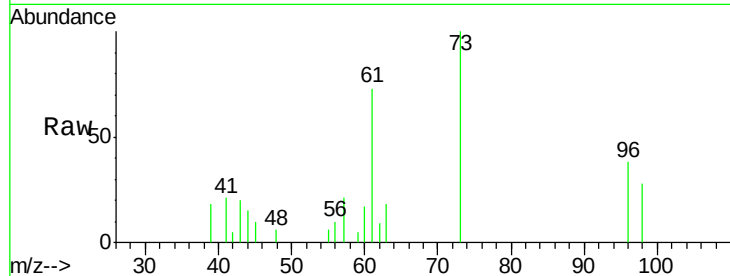
#17
Methyl tert-butyl Ether
Concen: 0.250 ug/L
RT: 3.38 min Scan# 634
Delta R.T. -0.00 min
Lab File: VU041013.D
Acq: 29 Oct 2020 12:31

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-07

Tot Ion: 73 Resp: 4879
Ion Ratio Lower Upper
73 100
43 12.4 19.5 29.3#
57 15.7 18.9 28.3#

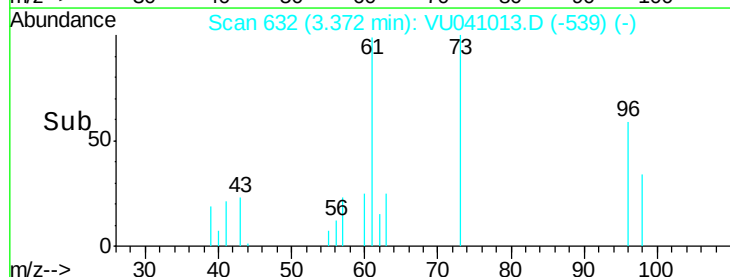
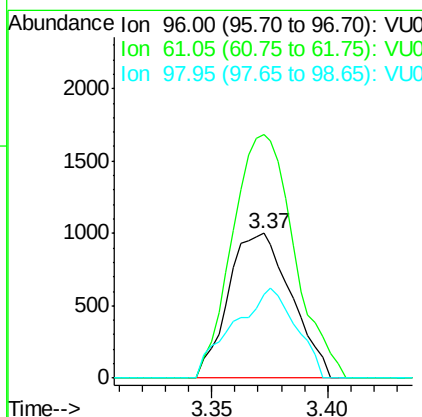
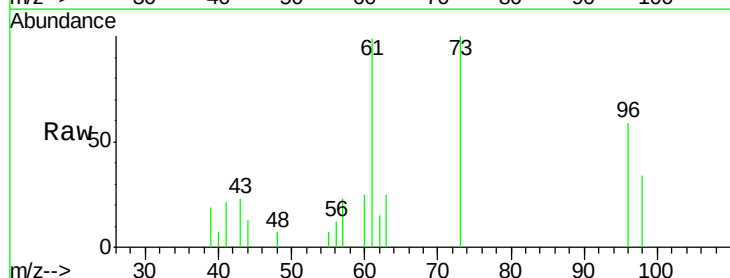
Manual Integrations
APPROVED

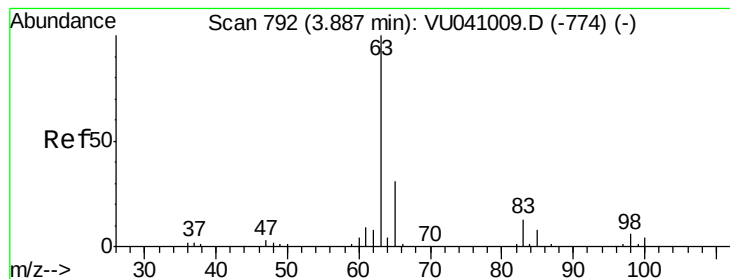
MMDadoda
10/29/2020 2:59:33 PM



#18
trans-1,2-Dichloroethene
Concen: 0.248 ug/L
RT: 3.37 min Scan# 632
Delta R.T. 0.00 min
Lab File: VU041013.D
Acq: 29 Oct 2020 12:31

Tgt Ion: 96 Resp: 1878
Ion Ratio Lower Upper
96 100
61 168.0 107.2 199.0
98 57.7 44.6 82.8





#19

1,1-Dichloroethane

Concen: 0.255 ug/L

RT: 3.89 min Scan# 792

Delta R.T. -0.00 min

Lab File: VU041013.D

Acq: 29 Oct 2020 12:31

Instrument :

MSVOA_U

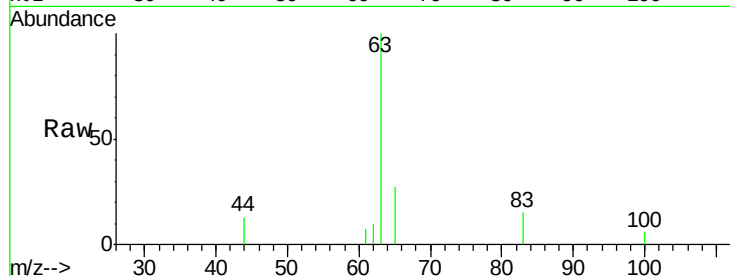
ClientSampleId :

MDL-WATER-07

Tot Ion:	63	Resp:	3998
Ion	Ratio	Lower	Upper
63	100		
65	26.6	21.8	40.4
83	14.6	9.3	17.3

Manual Integrations
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MMDadoda
10/29/2020 2:59:33 PM

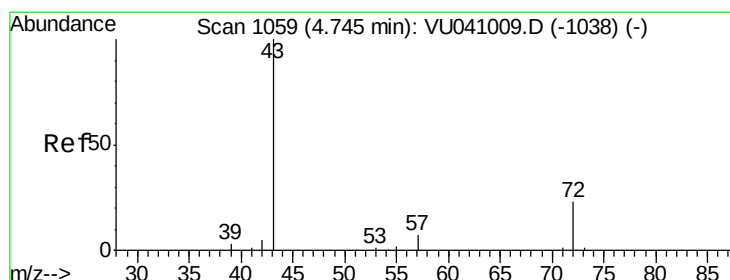
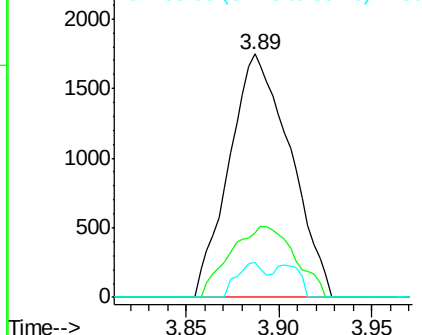
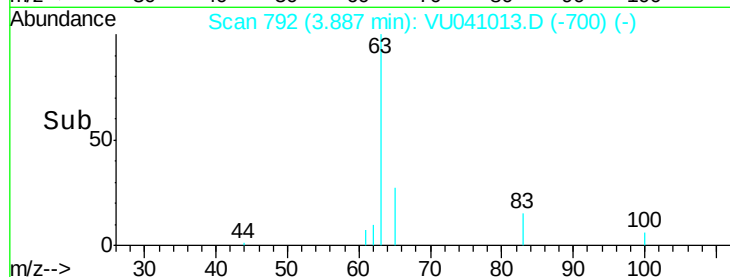


Abundance Ion 63.10 (62.80 to 63.80): VU041013.D (-700) (-)

Ion 65.10 (64.80 to 65.80): VU041013.D (-700) (-)

Ion 83.05 (82.75 to 83.75): VU041013.D (-700) (-)

Time-->



#21

2-Butanone

Concen: 2.808 ug/L m

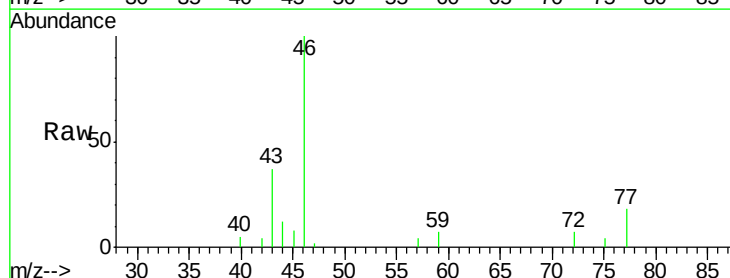
RT: 4.76 min Scan# 1063

Delta R.T. 0.02 min

Lab File: VU041013.D

Acq: 29 Oct 2020 12:31

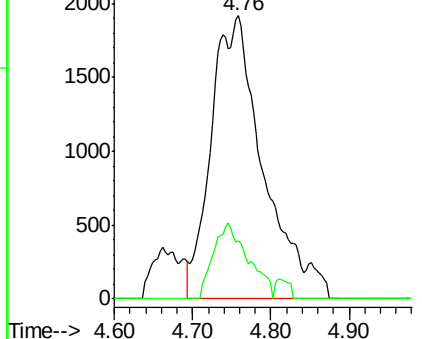
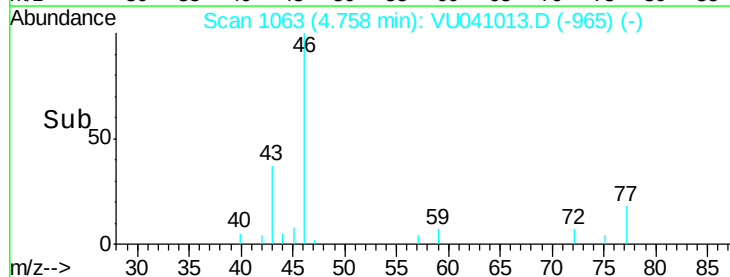
Tgt Ion:	43	Resp:	8846
Ion	Ratio	Lower	Upper
43	100		
72	17.8	11.6	34.7

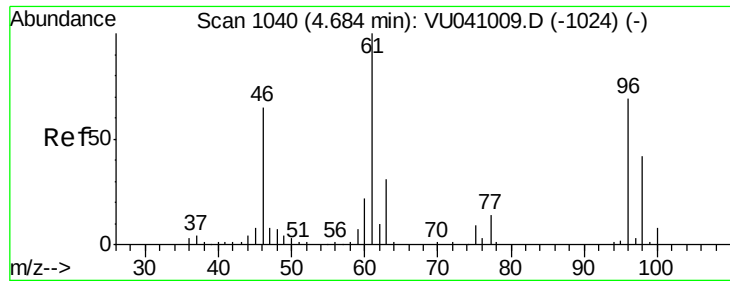


Abundance Ion 43.05 (42.75 to 43.75): VU041013.D (-965) (-)

Ion 72.10 (71.80 to 72.80): VU041013.D (-965) (-)

Time-->





#22

cis-1,2-Dichloroethene

Concen: 0.260 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. -0.00 min

Lab File: VU041013.D

Acq: 29 Oct 2020 12:31

Instrument :

MSVOA_U

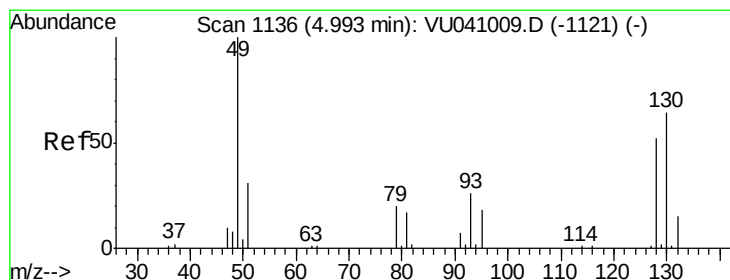
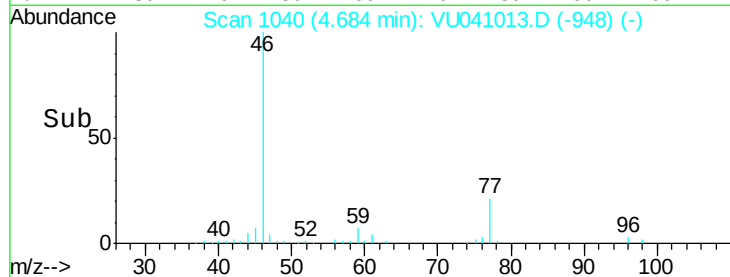
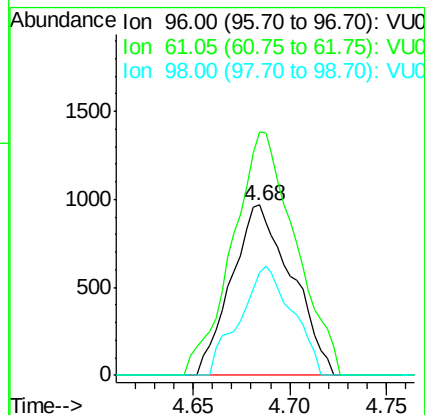
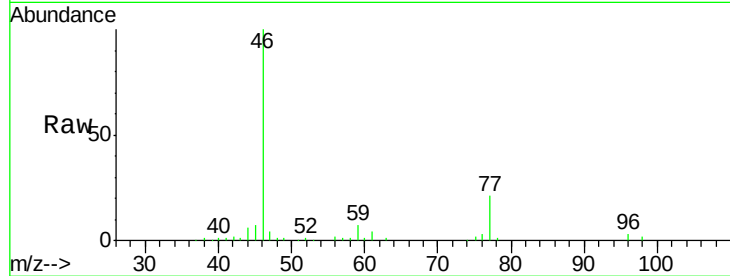
ClientSampleId :

MDL-WATER-07

Tot Ion:	96	Resp:	2105
Ion	Ratio	Lower	Upper
96	100		
61	142.9	101.7	188.9
98	60.1	46.4	86.2

Manual Integrations
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#23

Bromochloromethane

Concen: 0.251 ug/L m

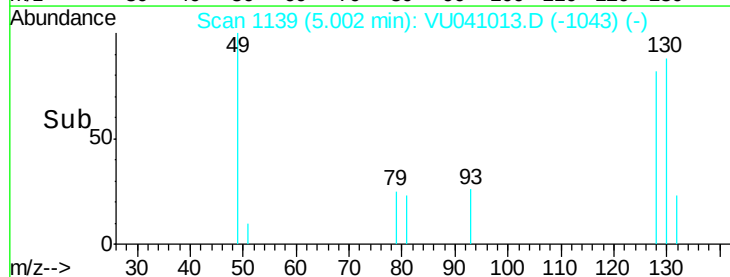
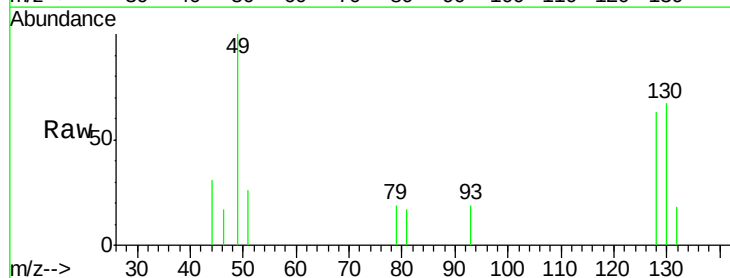
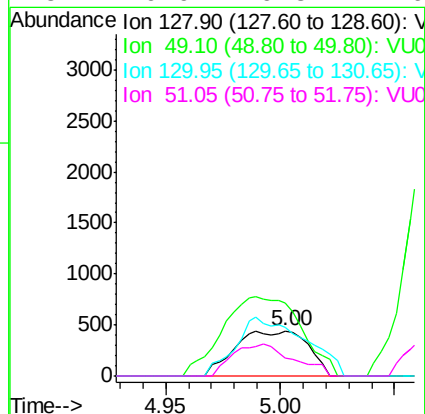
RT: 5.00 min Scan# 1139

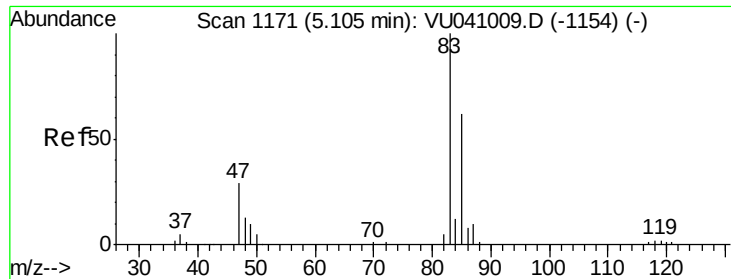
Delta R.T. 0.01 min

Lab File: VU041013.D

Acq: 29 Oct 2020 12:31

Tgt Ion:	128	Resp:	968
Ion	Ratio	Lower	Upper
128	100		
49	160.0	137.5	255.4
130	106.5	90.2	167.4
51	40.9	49.8	74.6





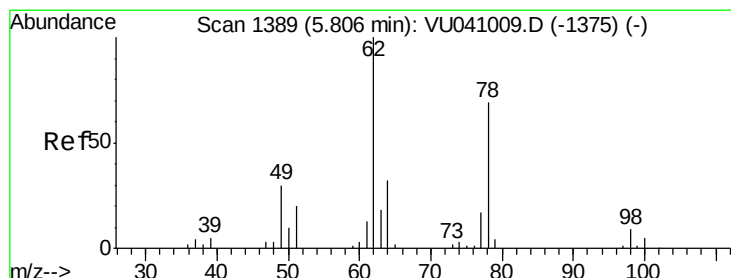
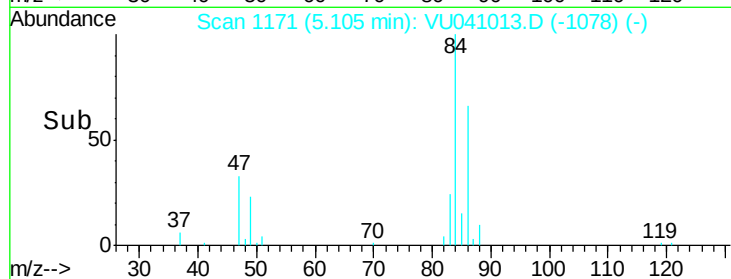
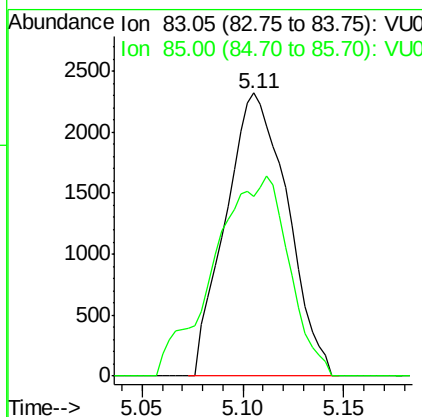
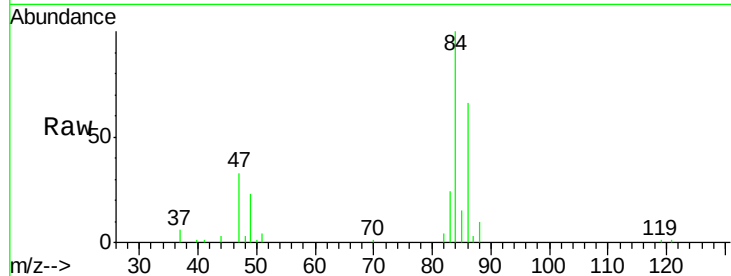
#25
Chloroform
Concen: 0.309 ug/L
RT: 5.11 min Scan# 1171
Delta R.T. 0.00 min
Lab File: VU041013.D
Acq: 29 Oct 2020 12:31

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-07

Tot Ion: 83 Resp: 4953
Ion Ratio Lower Upper
83 100
85 63.5 45.5 84.5

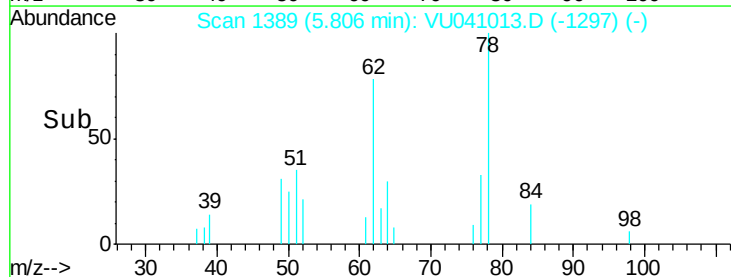
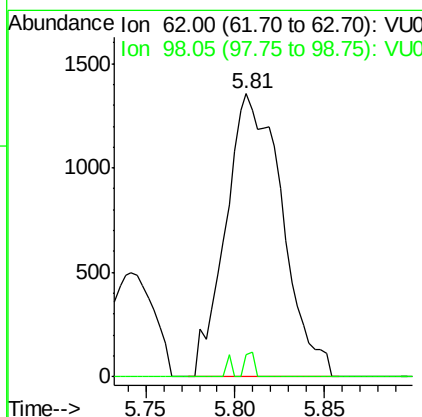
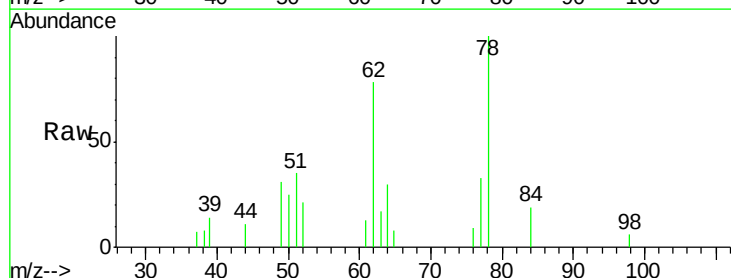
Manual Integrations
APPROVED

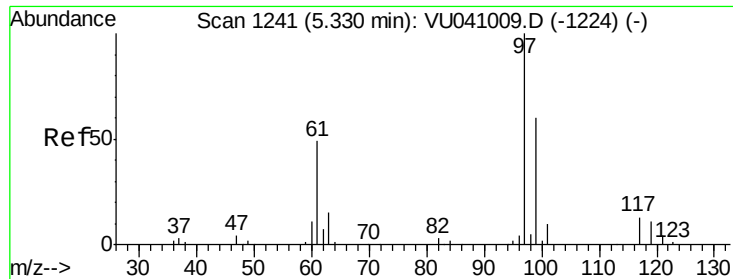
MMDadoda
10/29/2020 2:59:33 PM



#27
1,2-Dichloroethane
Concen: 0.255 ug/L
RT: 5.81 min Scan# 1389
Delta R.T. -0.00 min
Lab File: VU041013.D
Acq: 29 Oct 2020 12:31

Tgt Ion: 62 Resp: 2989
Ion Ratio Lower Upper
62 100
98 8.0 6.1 9.1





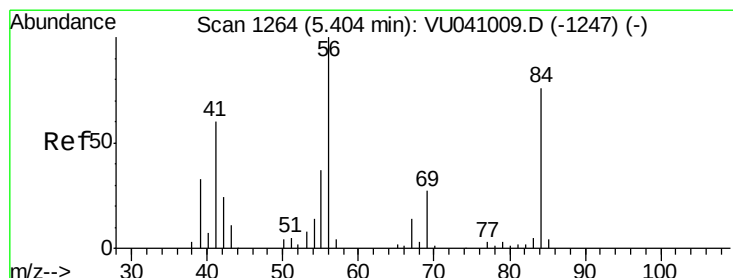
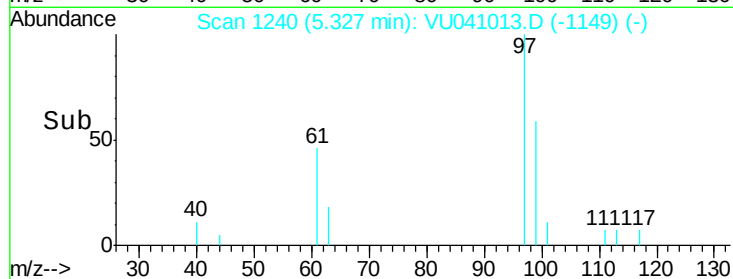
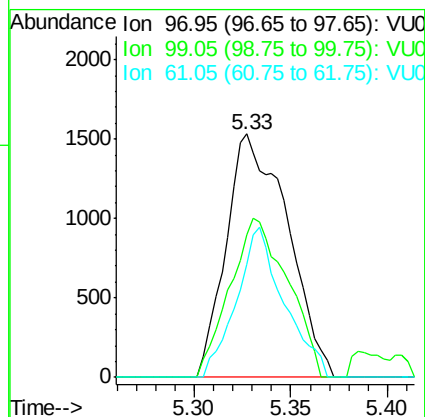
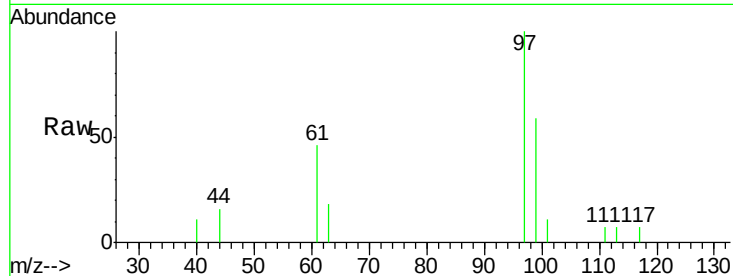
#29
 1,1,1-Trichloroethane
 Concen: 0.243 ug/L
 RT: 5.33 min Scan# 1240
 Delta R.T. -0.01 min
 Lab File: VU041013.D
 Acq: 29 Oct 2020 12:31

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-07

Tot Ion	Ratio	Lower	Upper
97	100		
99	61.8	50.2	75.2
61	47.9	39.6	59.4

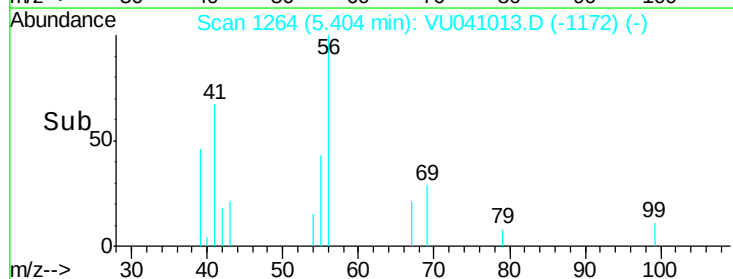
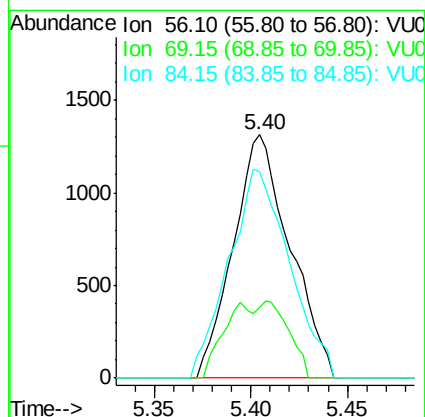
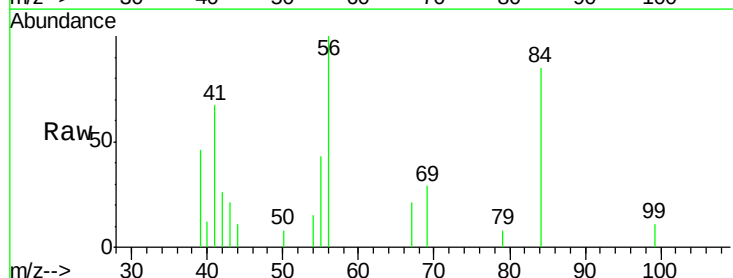
Manual Integrations
 APPROVED

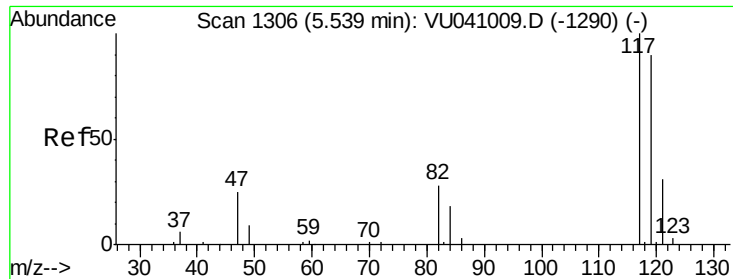
MMDadoda
 10/29/2020 2:59:33 PM



#30
 Cyclohexane
 Concen: 0.209 ug/L
 RT: 5.40 min Scan# 1264
 Delta R.T. -0.00 min
 Lab File: VU041013.D
 Acq: 29 Oct 2020 12:31

Tgt Ion	Ratio	Lower	Upper
56	100		
69	17.3	23.2	34.8#
84	91.5	62.9	94.3





#31

Carbon tetrachloride

Concen: 0.248 ug/L

RT: 5.55 min Scan# 1309

Delta R.T. 0.01 min

Lab File: VU041013.D

Acq: 29 Oct 2020 12:31

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-07

Tot Ion:117 Resp: 2935

Ion Ratio Lower Upper

117 100

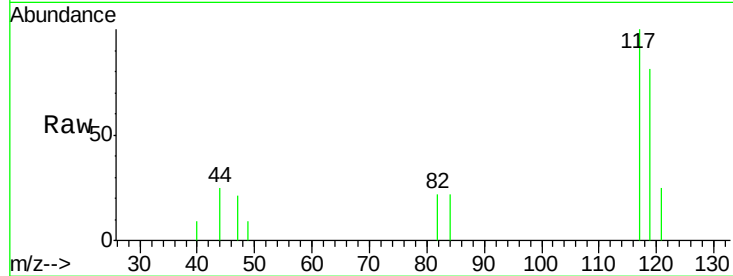
119 91.3 74.4 111.6

Manual Integrations

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Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

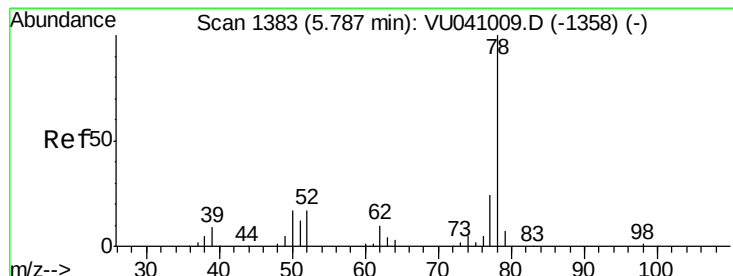
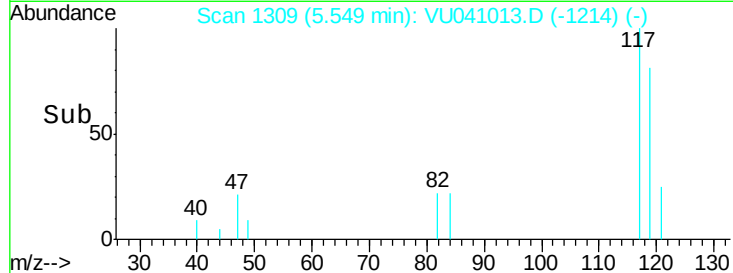
1500

1000

500

0

Time-->



#33

Benzene

Concen: 0.246 ug/L

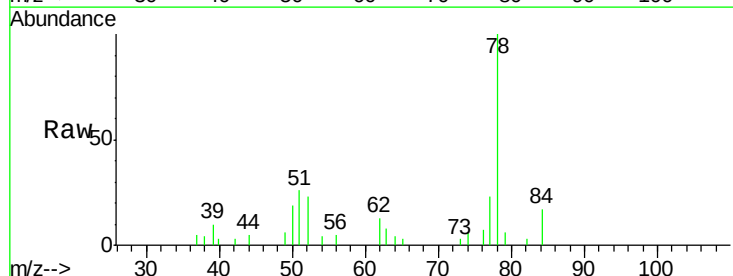
RT: 5.79 min Scan# 1384

Delta R.T. 0.00 min

Lab File: VU041013.D

Acq: 29 Oct 2020 12:31

Tgt Ion: 78 Resp: 8008



Abundance Ion 78.10 (77.80 to 78.80): VU0

4000

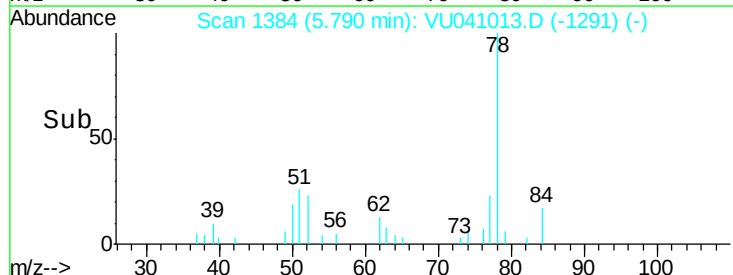
3000

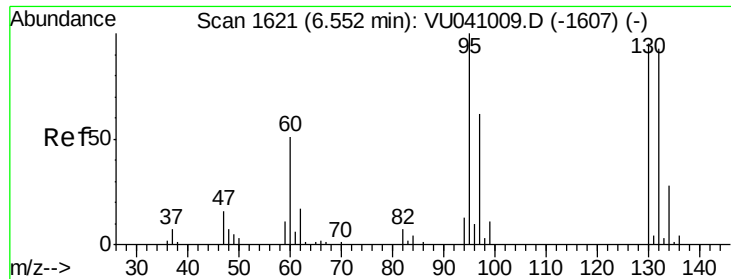
2000

1000

0

Time-->





#34

Trichloroethene

Concen: 0.252 ug/L

RT: 6.55 min Scan# 1621

Delta R.T. -0.00 min

Lab File: VU041013.D

Acq: 29 Oct 2020 12:31

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-07

Tot Ion: 95 Resp: 2182

Ion Ratio Lower Upper

95 100

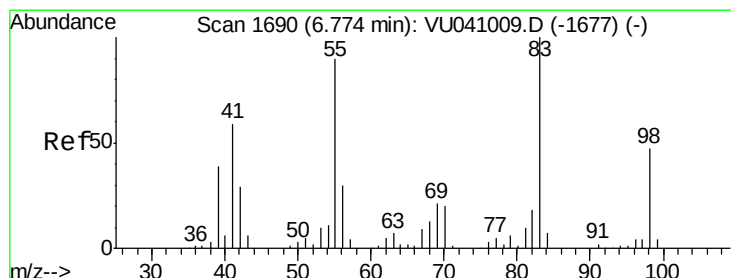
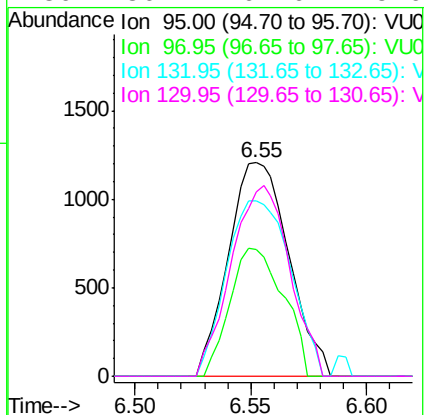
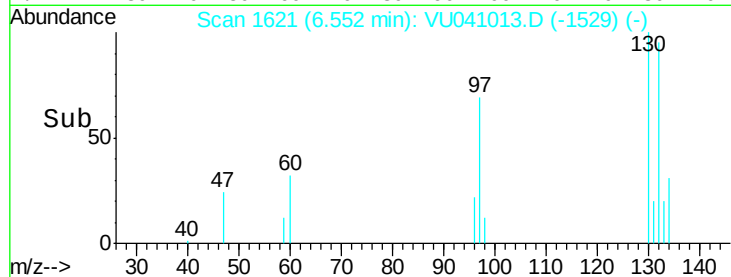
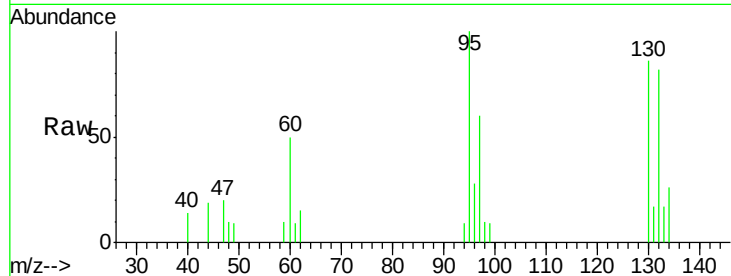
97 59.6 43.8 81.4

132 82.2 64.5 119.7

130 86.2 67.6 125.6

Manual Integrations
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#35

Methylcyclohexane

Concen: 0.225 ug/L

RT: 6.77 min Scan# 1690

Delta R.T. 0.00 min

Lab File: VU041013.D

Acq: 29 Oct 2020 12:31

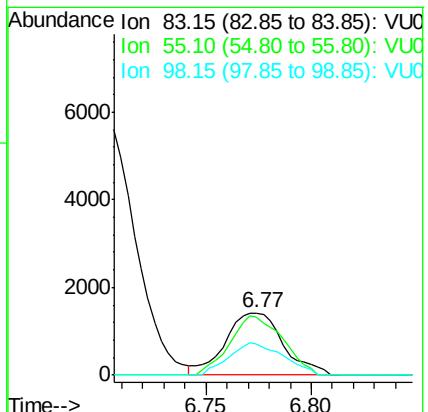
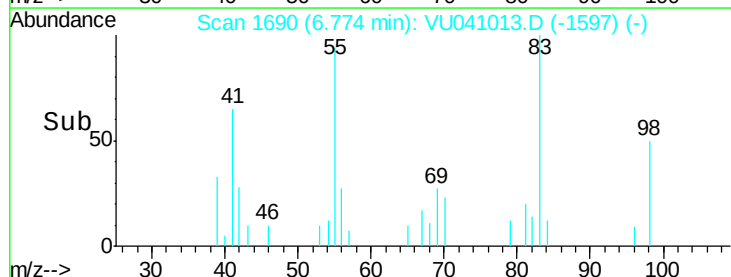
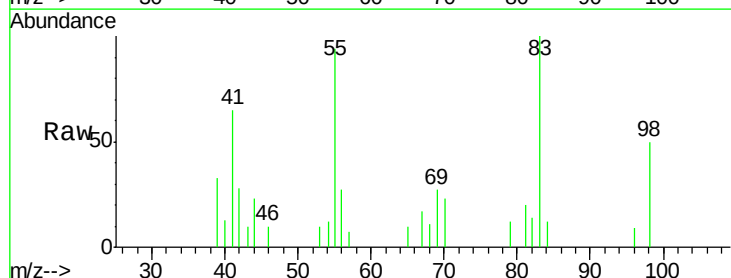
Tgt Ion: 83 Resp: 2712

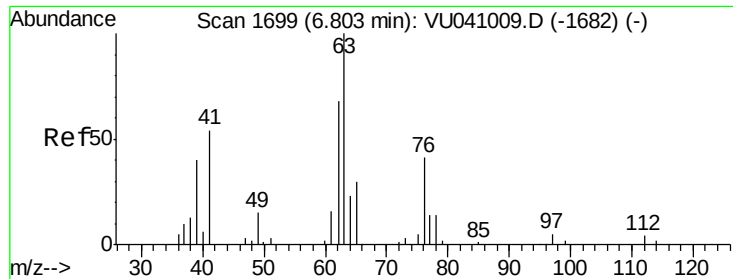
Ion Ratio Lower Upper

83 100

55 86.7 72.7 109.1

98 48.2 35.7 53.5





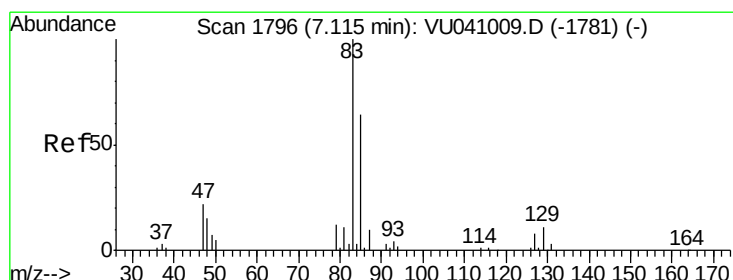
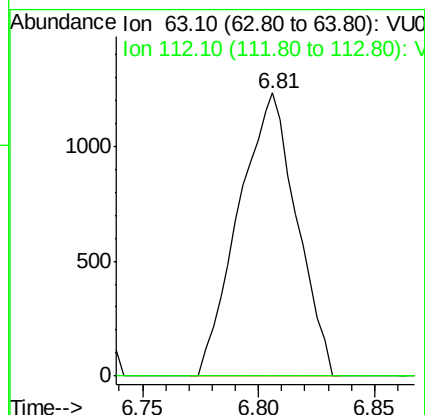
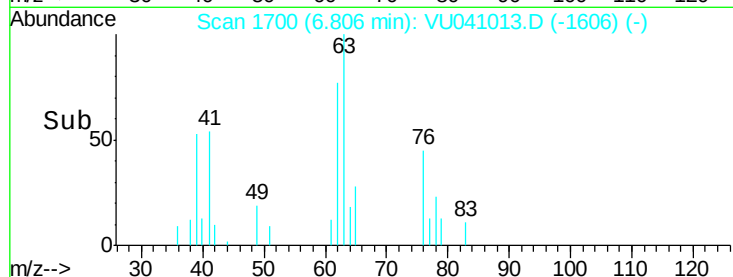
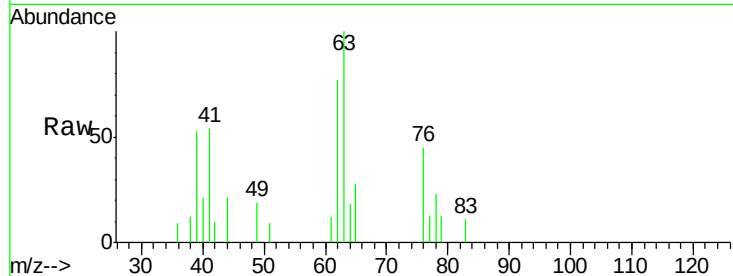
#37
 1,2-Dichloropropane
 Concen: 0.232 ug/L
 RT: 6.81 min Scan# 1700
 Delta R.T. 0.00 min
 Lab File: VU041013.D
 Acq: 29 Oct 2020 12:31

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-07

Tot Ion: 63 Resp: 2139
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.0 4.4#

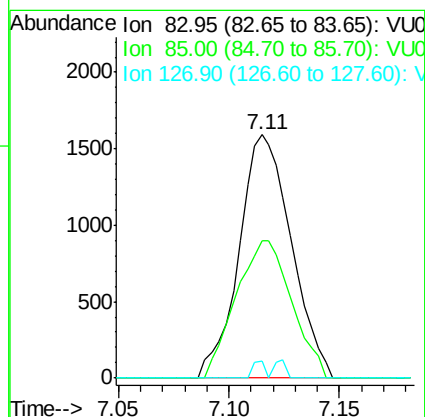
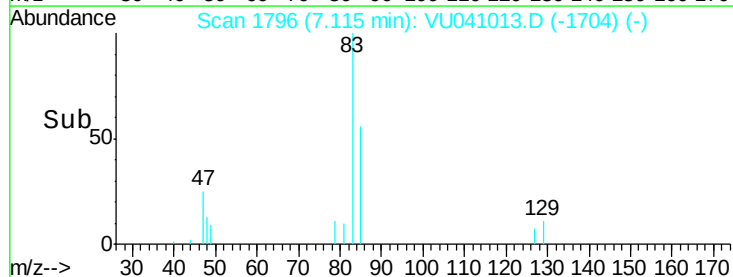
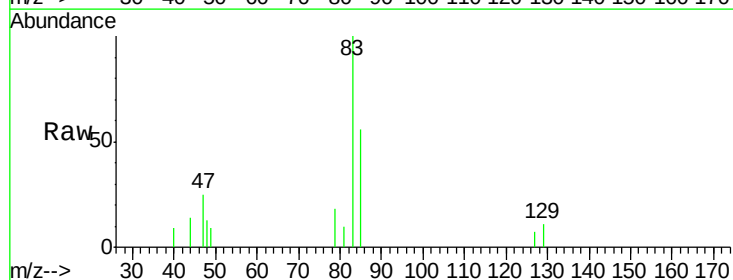
Manual Integrations
 APPROVED

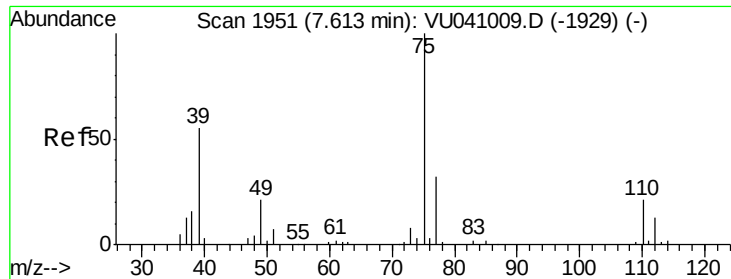
MMDadoda
 10/29/2020 2:59:33 PM



#38
 Bromodichloromethane
 Concen: 0.227 ug/L
 RT: 7.11 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VU041013.D
 Acq: 29 Oct 2020 12:31

Tgt Ion: 83 Resp: 2611
 Ion Ratio Lower Upper
 83 100
 85 56.2 42.9 79.7
 127 7.0 6.2 9.2





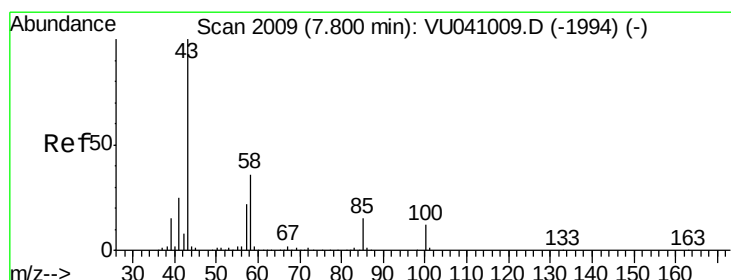
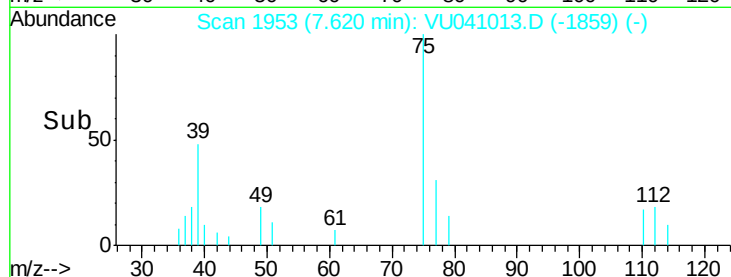
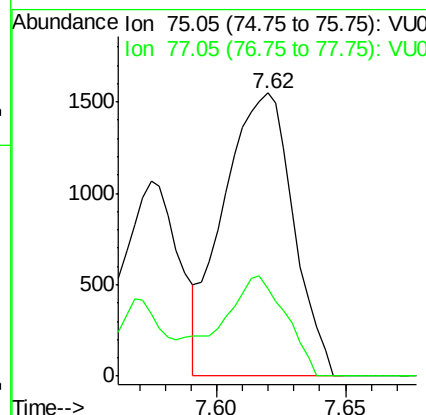
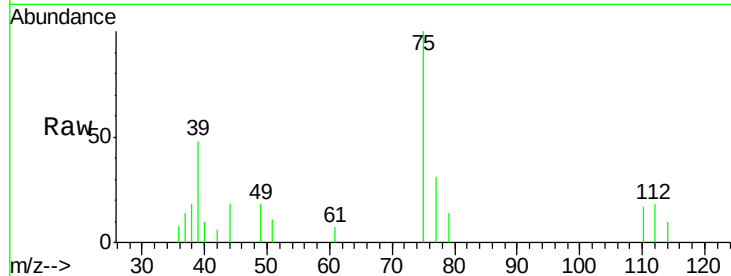
#39
 cis-1,3-Dichloropropene
 Concen: 0.238 ug/L
 RT: 7.62 min Scan# 1953
 Delta R.T. 0.00 min
 Lab File: VU041013.D
 Acq: 29 Oct 2020 12:31

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-07

Tot Ion: 75 Resp: 2908
 Ion Ratio Lower Upper
 75 100
 77 30.9 22.7 42.3

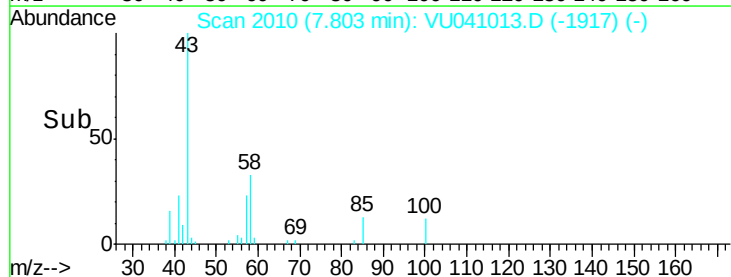
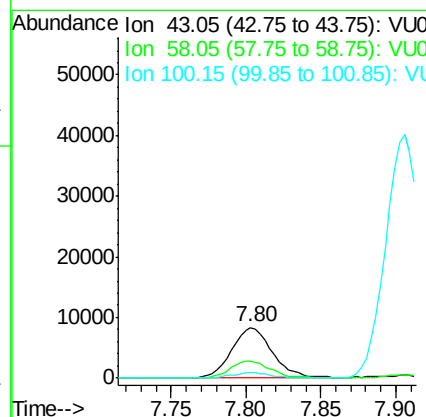
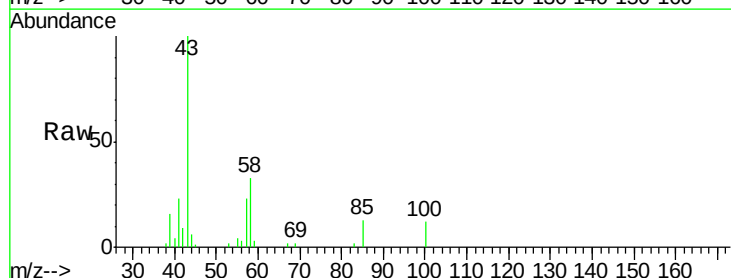
Manual Integrations
 APPROVED

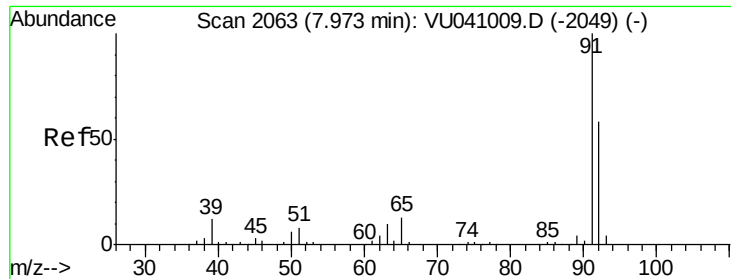
MMDadoda
 10/29/2020 2:59:33 PM



#40
 4-Methyl-2-pentanone
 Concen: 2.273 ug/L
 RT: 7.80 min Scan# 2010
 Delta R.T. 0.00 min
 Lab File: VU041013.D
 Acq: 29 Oct 2020 12:31

Tgt Ion: 43 Resp: 15832
 Ion Ratio Lower Upper
 43 100
 58 33.4 28.6 43.0
 100 0.0 9.6 14.4#





#42

Toluene

Concen: 0.233 ug/L

RT: 7.97 min Scan# 2063

Delta R.T. -0.00 min

Lab File: VU041013.D

Acq: 29 Oct 2020 12:31

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-07

Tot Ion: 91 Resp: 7647

Ion Ratio Lower Upper

91 100

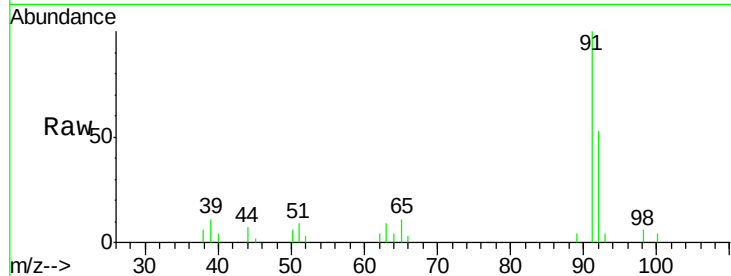
92 52.9 40.5 75.1

Manual Integrations

APPROVED

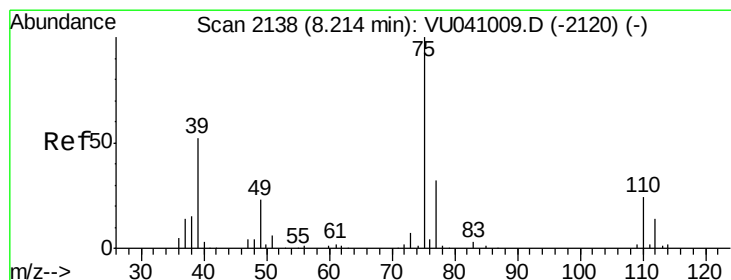
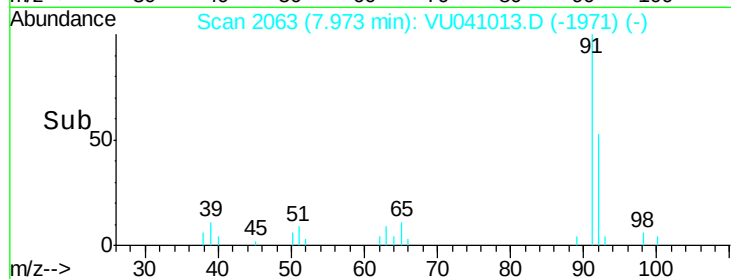
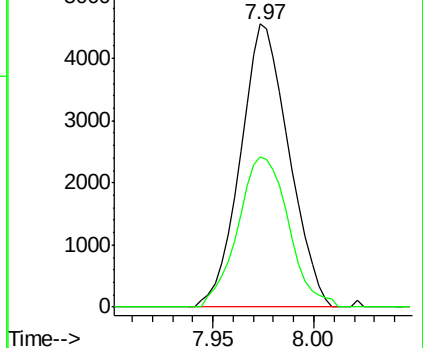
MMDadoda

10/29/2020 2:59:33 PM



Abundance Ion 91.15 (90.85 to 91.85): VU041009.D (-2049) (-)

Ion 92.15 (91.85 to 92.85): VU041009.D (-2049) (-)



#44

trans-1,3-Dichloropropene

Concen: 0.329 ug/L

RT: 8.21 min Scan# 2138

Delta R.T. -0.00 min

Lab File: VU041013.D

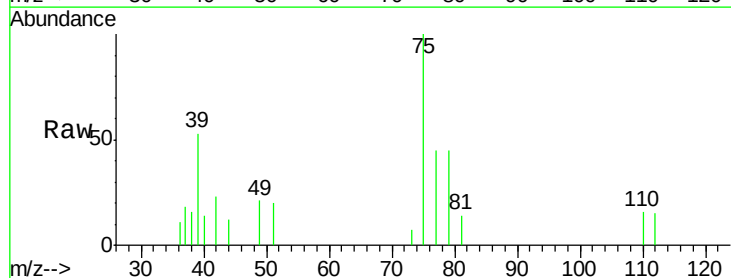
Acq: 29 Oct 2020 12:31

Tgt Ion: 75 Resp: 3745

Ion Ratio Lower Upper

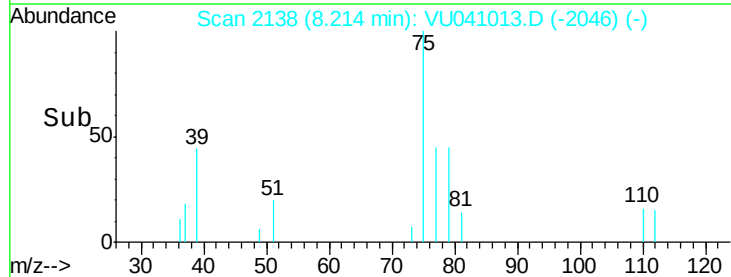
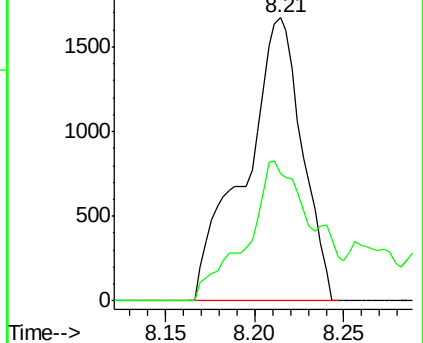
75 100

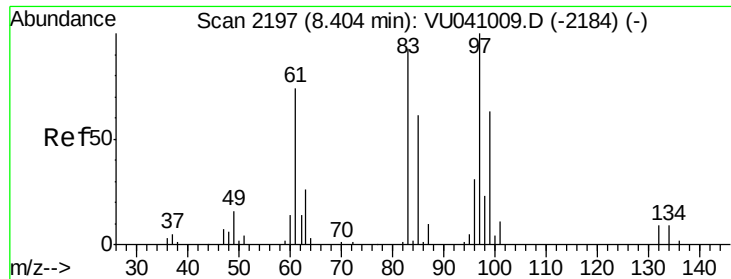
77 44.9 23.0 42.6#



Abundance Ion 75.05 (74.75 to 75.75): VU041009.D (-2120) (-)

Ion 77.05 (76.75 to 77.75): VU041009.D (-2120) (-)





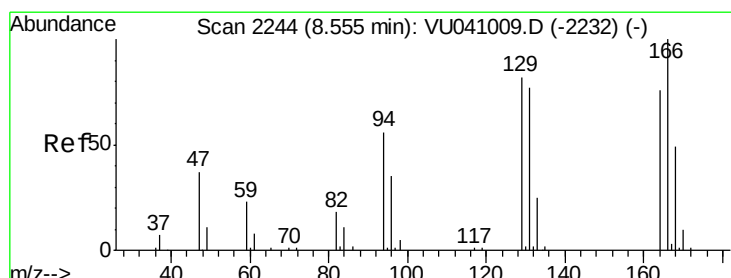
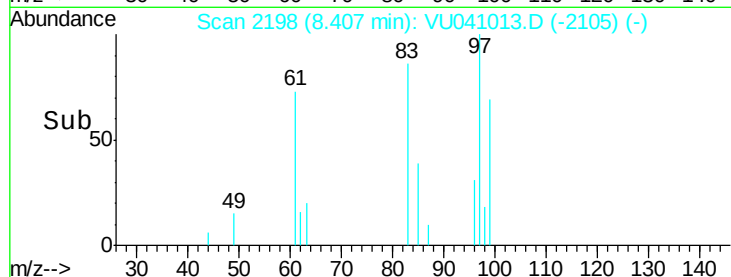
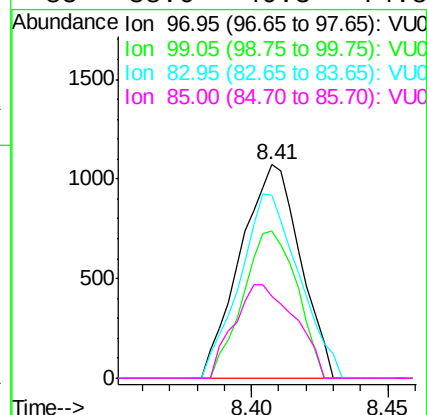
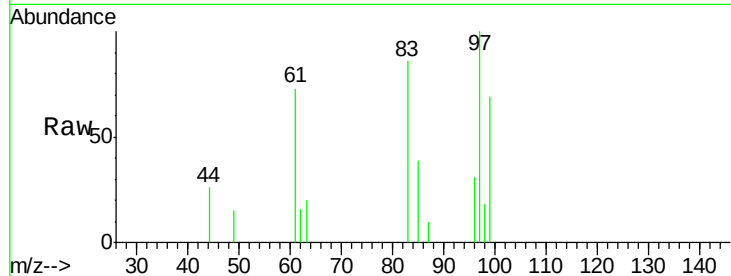
#45
1,1,2-Trichloroethane
Concen: 0.248 ug/L
RT: 8.41 min Scan# 2198
Delta R.T. 0.00 min
Lab File: VU041013.D
Acq: 29 Oct 2020 12:31

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-07

Tot Ion	Ratio	Lower	Upper
97	100		
99	68.8	41.8	77.6
83	85.7	62.2	115.6
85	38.6	40.3	74.8

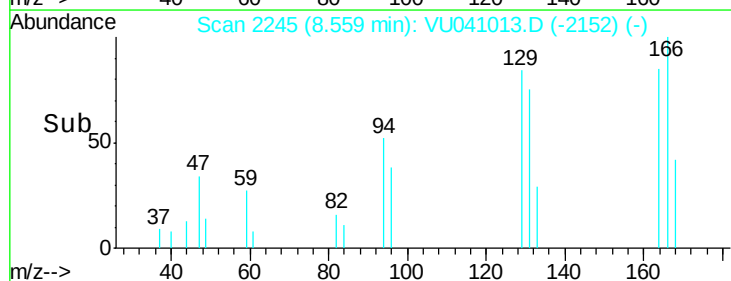
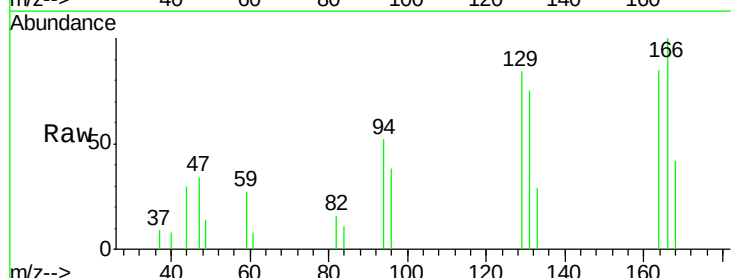
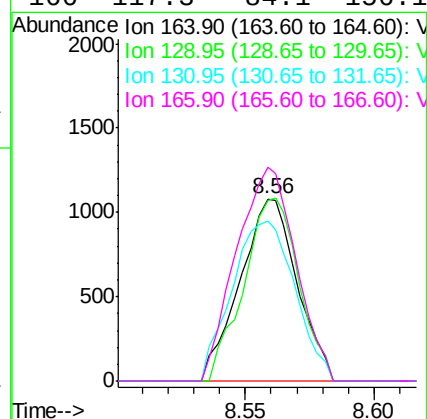
Manual Integrations
APPROVED

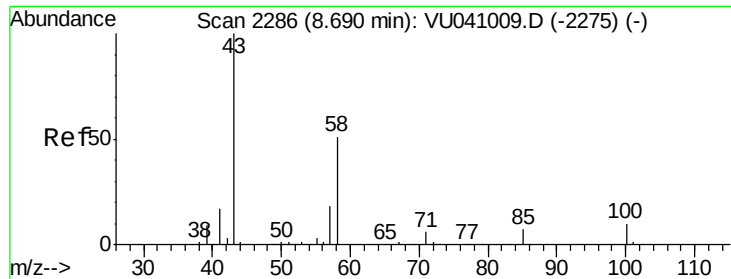
MMDadoda
10/29/2020 2:59:33 PM



#47
Tetrachloroethene
Concen: 0.277 ug/L
RT: 8.56 min Scan# 2245
Delta R.T. 0.00 min
Lab File: VU041013.D
Acq: 29 Oct 2020 12:31

Tgt Ion	Ratio	Lower	Upper
164	100		
129	98.8	69.9	129.7
131	87.6	65.0	120.6
166	117.3	84.1	156.1





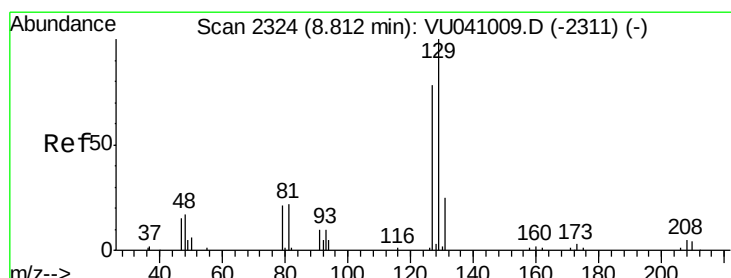
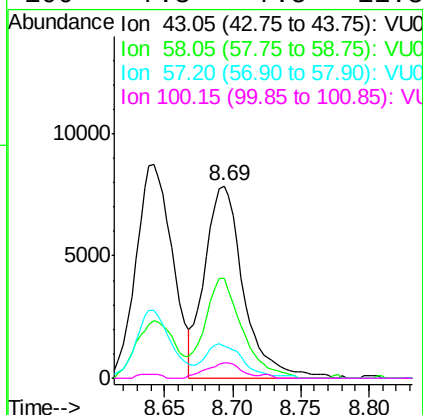
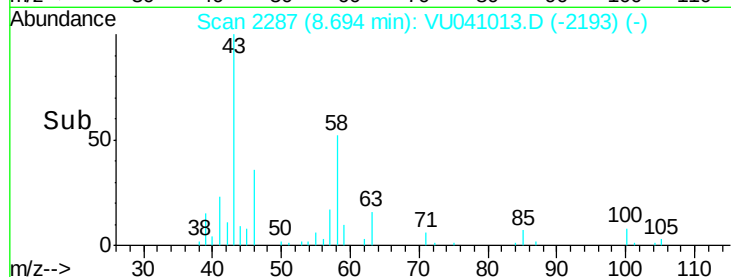
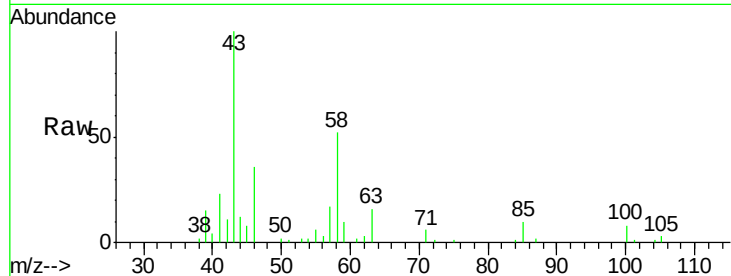
#48
2-Hexanone
Concen: 2.967 ug/L
RT: 8.69 min Scan# 2287
Delta R.T. 0.00 min
Lab File: VU041013.D
Acq: 29 Oct 2020 12:31

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-07

Tot Ion	Ratio	Lower	Upper
43	100		
58	51.2	39.9	59.9
57	18.1	14.1	21.1
100	7.3	7.5	11.3

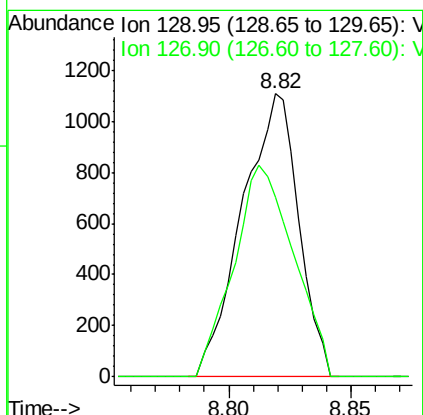
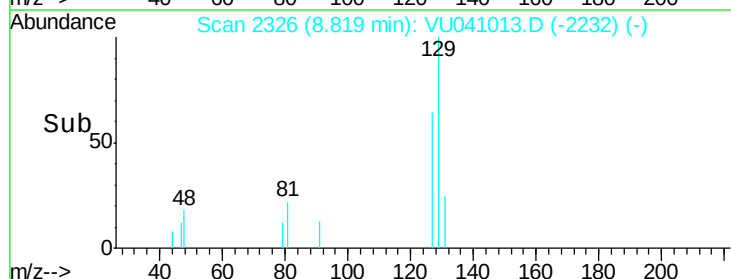
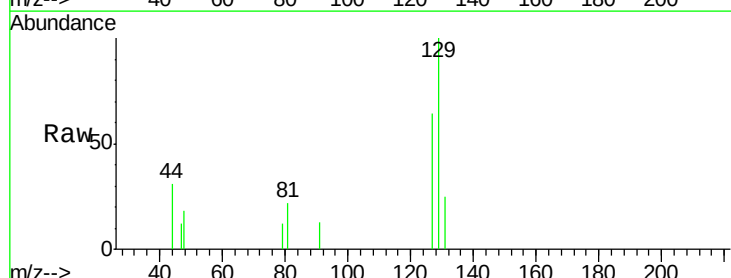
Manual Integrations
APPROVED

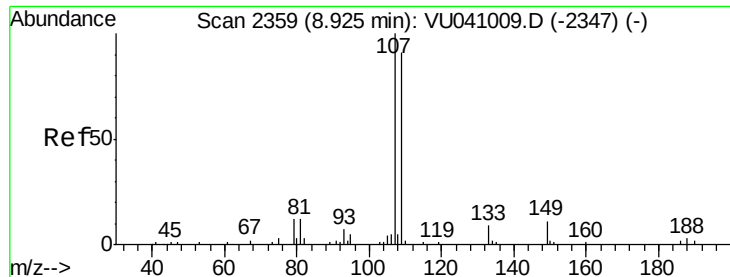
MMDadoda
10/29/2020 2:59:33 PM



#49
Dibromochloromethane
Concen: 0.234 ug/L
RT: 8.82 min Scan# 2326
Delta R.T. 0.00 min
Lab File: VU041013.D
Acq: 29 Oct 2020 12:31

Tgt Ion	Ratio	Lower	Upper
129	100		
127	63.5	55.3	102.7





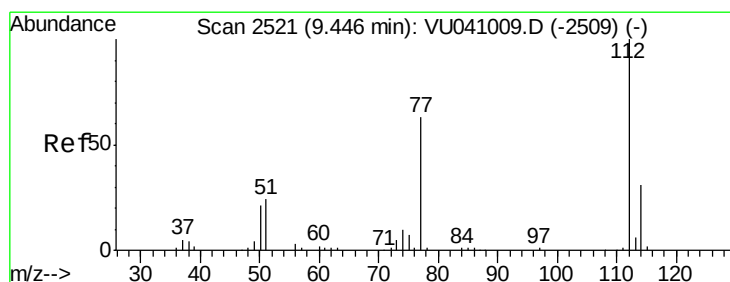
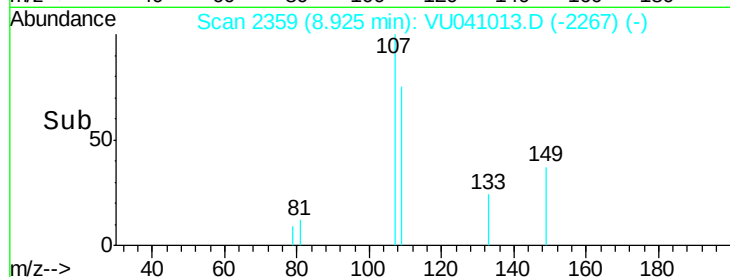
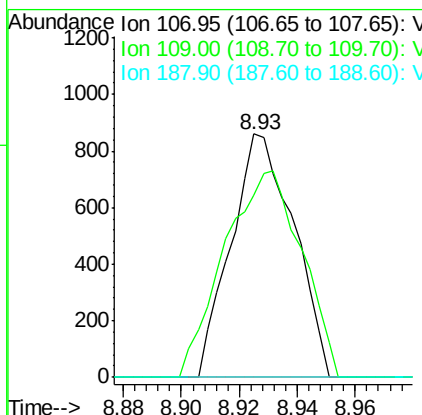
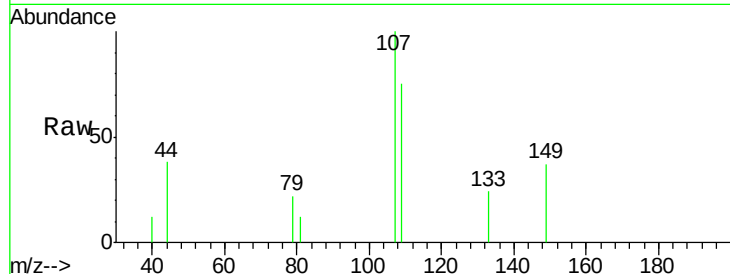
#50
1,2-Dibromoethane
Concen: 0.209 ug/L
RT: 8.93 min Scan# 2359
Delta R.T. -0.00 min
Lab File: VU041013.D
Acq: 29 Oct 2020 12:31

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-07

Tot Ion	Ratio	Lower	Upper
107	100		
109	74.8	67.1	124.5
188	0.0	2.3	3.5#

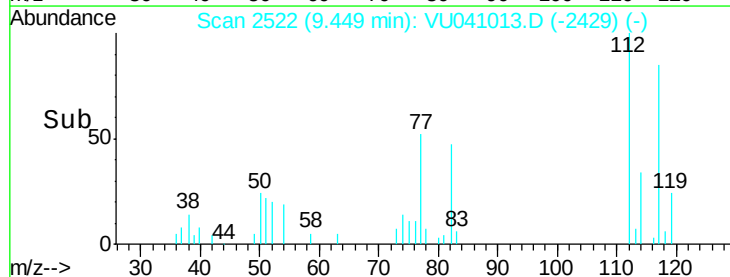
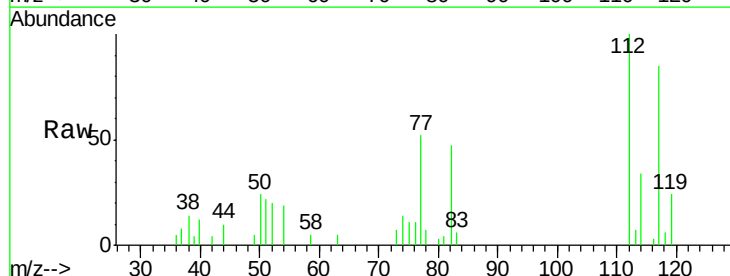
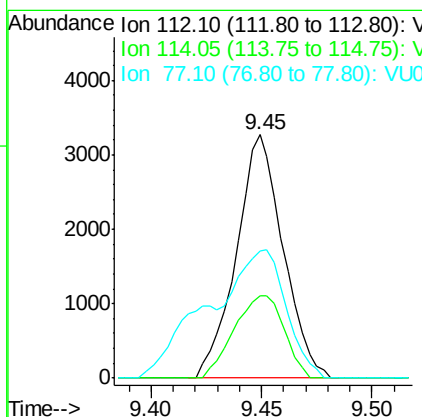
Manual Integrations
APPROVED

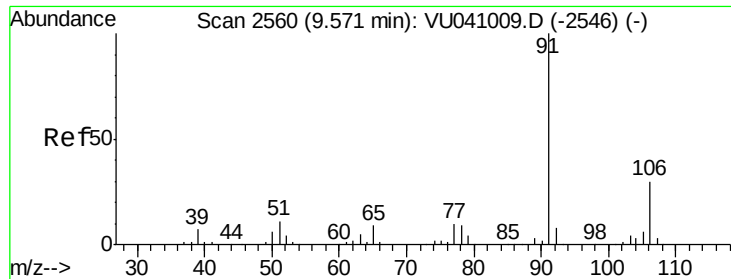
MMDadoda
10/29/2020 2:59:33 PM



#51
Chlorobenzene
Concen: 0.228 ug/L
RT: 9.45 min Scan# 2522
Delta R.T. 0.00 min
Lab File: VU041013.D
Acq: 29 Oct 2020 12:31

Tgt Ion	Ratio	Lower	Upper
112	100		
114	34.0	21.9	40.7
77	52.4	51.4	77.2





#52

Ethylbenzene

Concen: 0.225 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. 0.00 min

Lab File: VU041013.D

Acq: 29 Oct 2020 12:31

Tot Ion: 91 Resp: 7669

Ion Ratio Lower Upper

91 100

106 30.7 20.6 38.4

Instrument :

MSVOA_U

ClientSampleId :

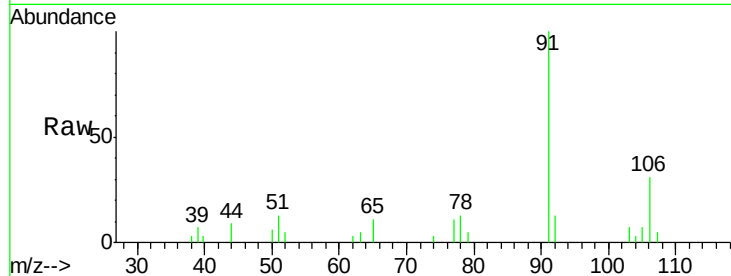
MDL-WATER-07

Manual Integrations

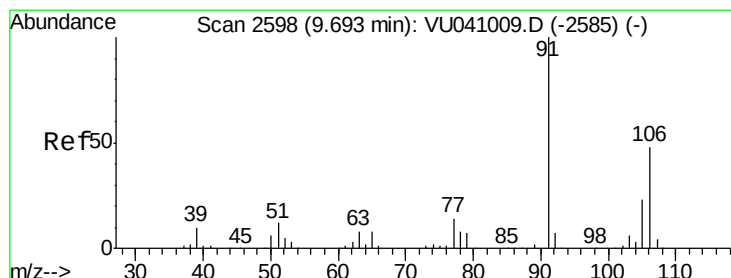
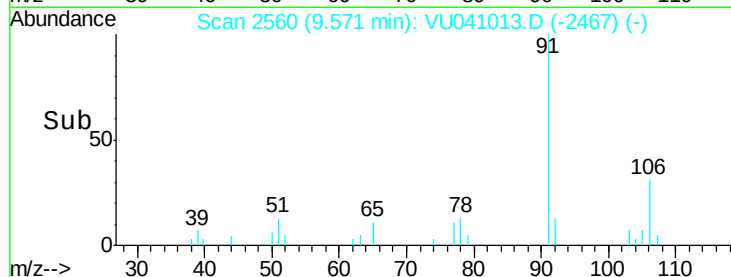
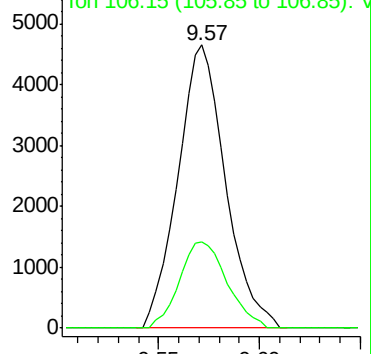
APPROVED

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10/29/2020 2:59:33 PM



Abundance Ion 91.15 (90.85 to 91.85): VU041013.D (-2467) (-)



#53

m,p-Xylene

Concen: 0.203 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VU041013.D

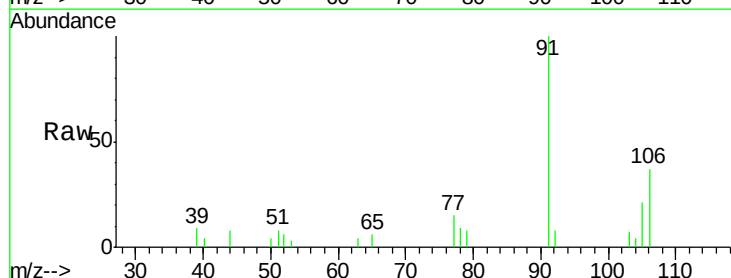
Acq: 29 Oct 2020 12:31

Tgt Ion: 106 Resp: 2503

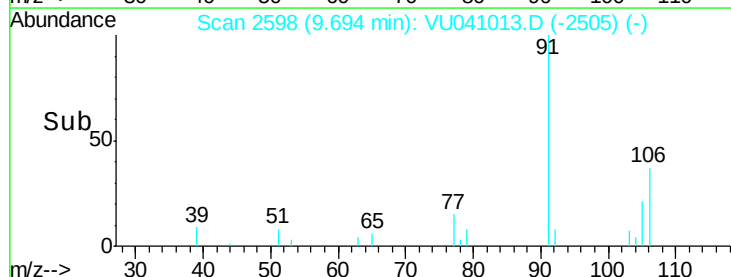
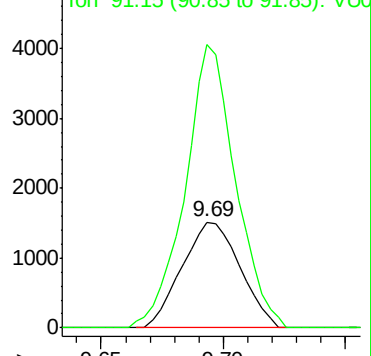
Ion Ratio Lower Upper

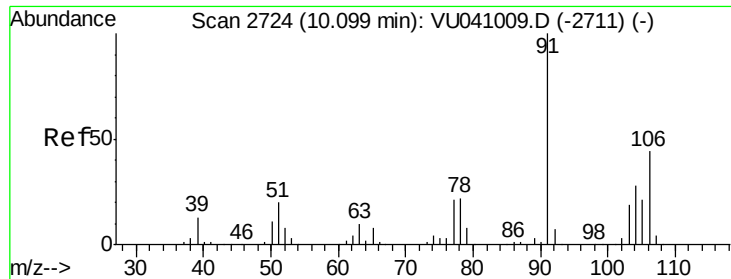
106 100

91 268.2 147.6 274.0



Abundance Ion 106.15 (105.85 to 106.85): VU041013.D (-2505) (-)





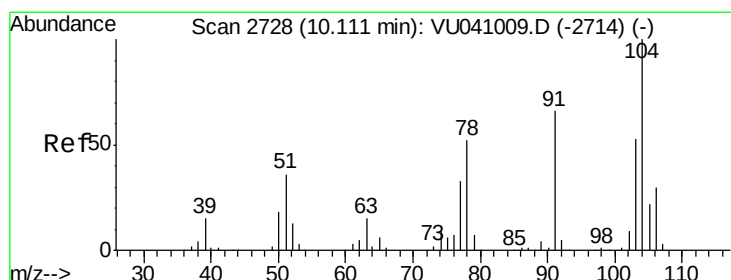
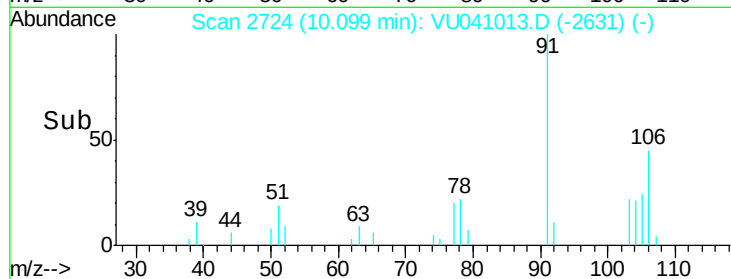
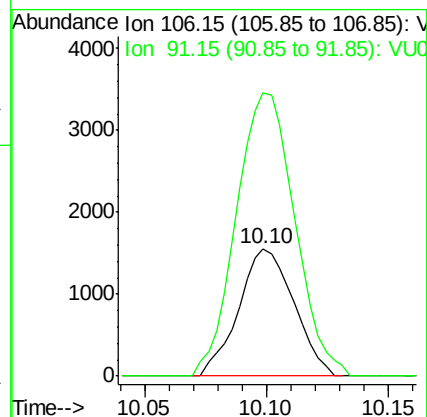
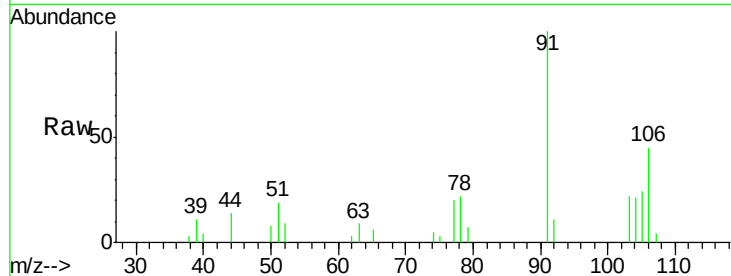
#54
o-Xylene
Concen: 0.207 ug/L
RT: 10.10 min Scan# 2724
Delta R.T. 0.00 min
Lab File: VU041013.D
Acq: 29 Oct 2020 12:31

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-07

Tot Ion:106 Resp: 2439
Ion Ratio Lower Upper
106 100
91 222.2 158.3 294.1

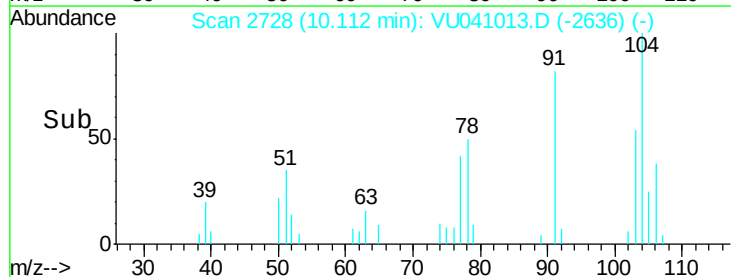
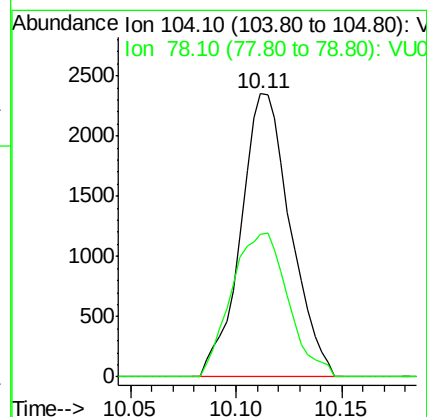
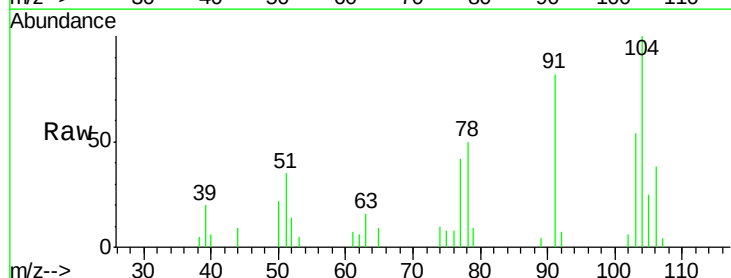
Manual Integrations
APPROVED

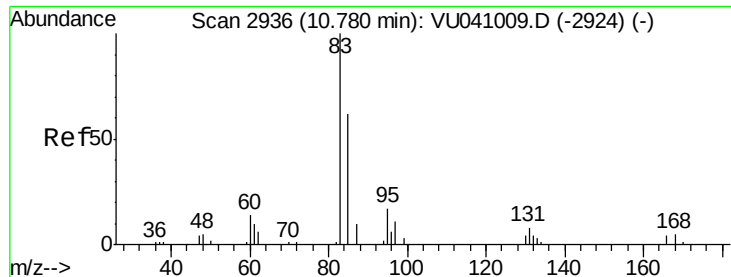
MMDadoda
10/29/2020 2:59:33 PM



#55
Styrene
Concen: 0.188 ug/L
RT: 10.11 min Scan# 2728
Delta R.T. -0.00 min
Lab File: VU041013.D
Acq: 29 Oct 2020 12:31

Tgt Ion:104 Resp: 3854
Ion Ratio Lower Upper
104 100
78 50.4 35.6 66.2





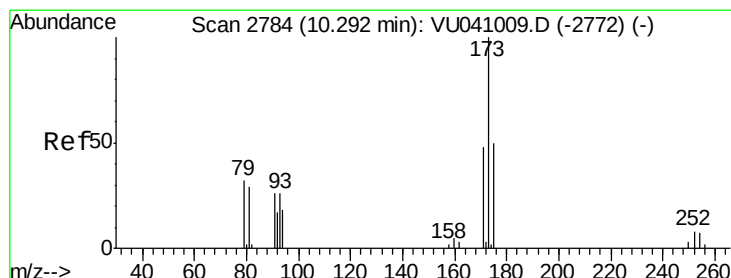
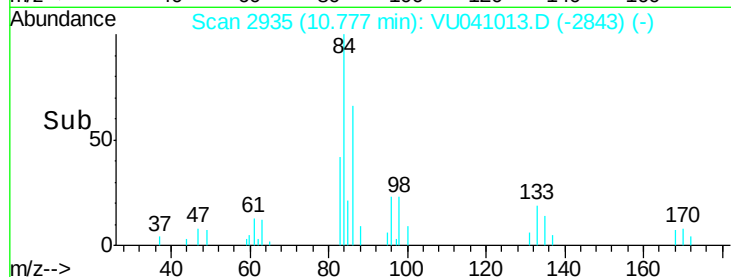
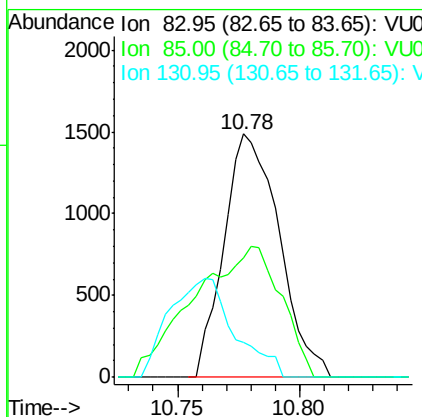
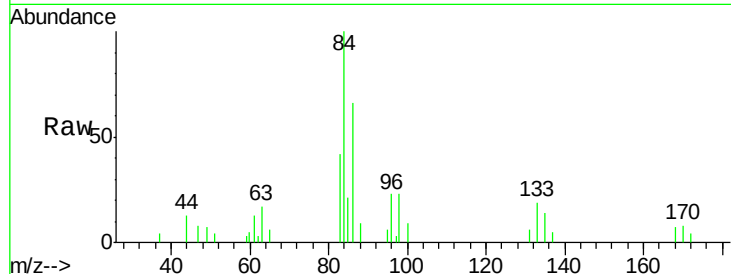
#57
 1,1,2,2-Tetrachloroethane
 Concen: 0.276 ug/L
 RT: 10.78 min Scan# 2935
 Delta R.T. -0.00 min
 Lab File: VU041013.D
 Acq: 29 Oct 2020 12:31

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-07

Tot Ion	Ratio	Lower	Upper
83	100		
85	49.3	42.1	78.3
131	14.4	6.7	10.1#

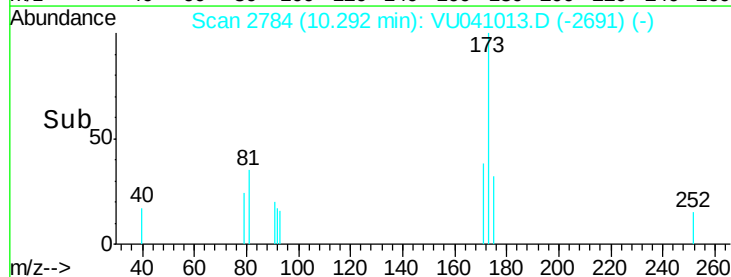
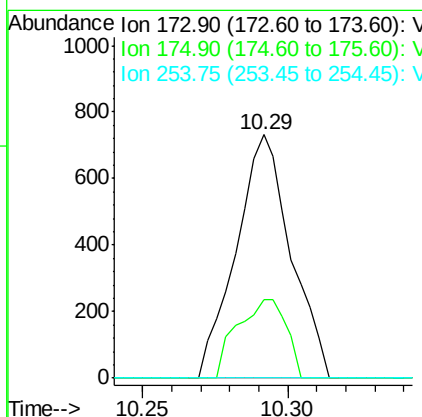
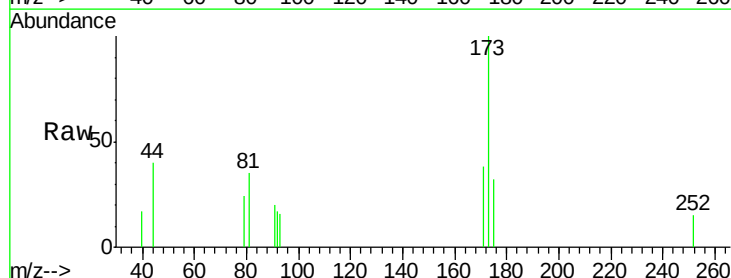
Manual Integrations
 APPROVED

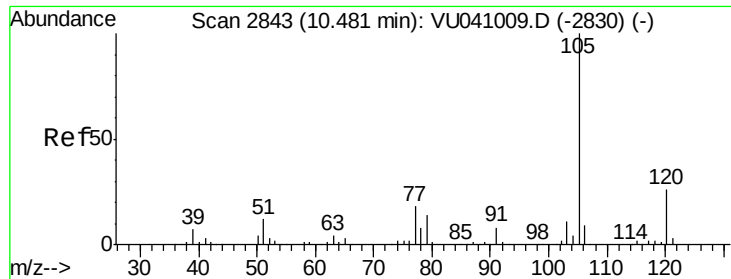
MMDadoda
 10/29/2020 2:59:33 PM



#59
 Bromoform
 Concen: 0.256 ug/L
 RT: 10.29 min Scan# 2784
 Delta R.T. 0.00 min
 Lab File: VU041013.D
 Acq: 29 Oct 2020 12:31

Tgt Ion	Ratio	Lower	Upper
173	100		
175	28.8	36.7	55.1#
254	0.0	6.5	9.7#





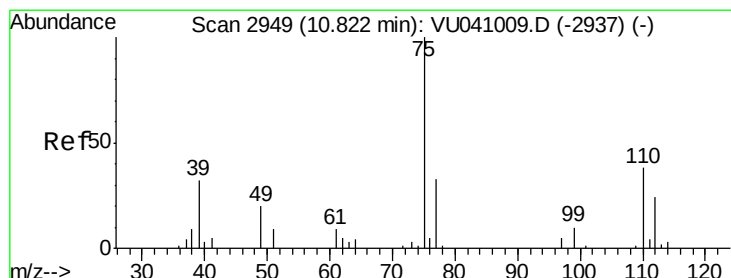
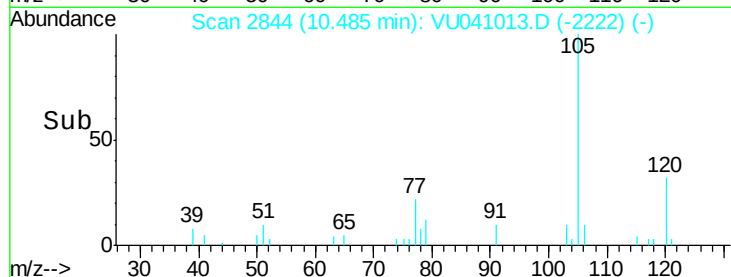
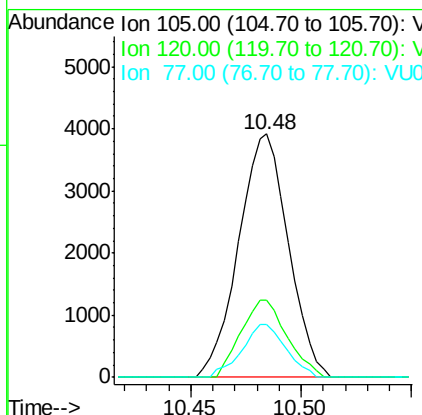
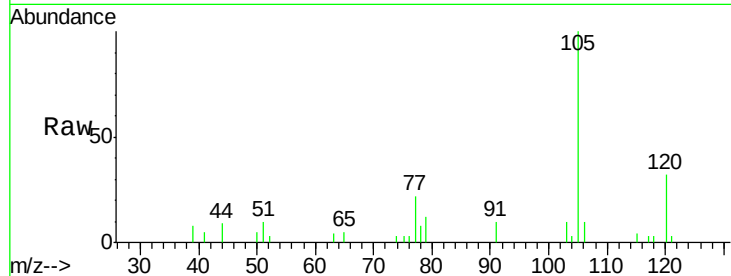
#60
Isopropylbenzene
Concen: 0.219 ug/L
RT: 10.48 min Scan# 2844
Delta R.T. 0.00 min
Lab File: VU041013.D
Acq: 29 Oct 2020 12:31

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-07

Tot Ion	Ratio	Lower	Upper
105	100		
120	29.4	20.2	30.4
77	19.3	14.4	21.6

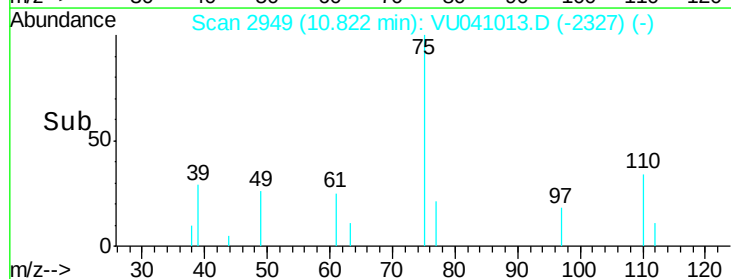
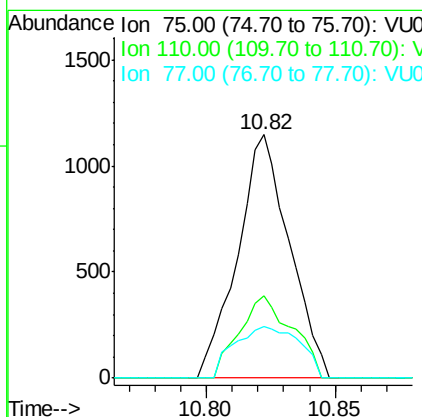
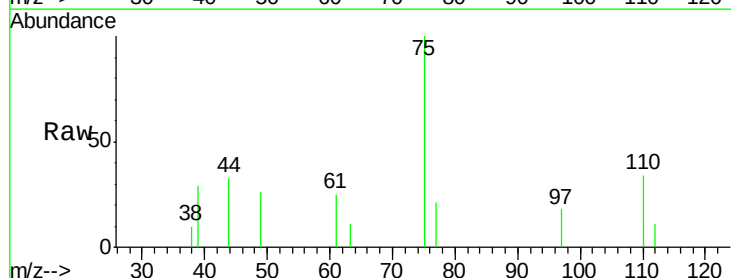
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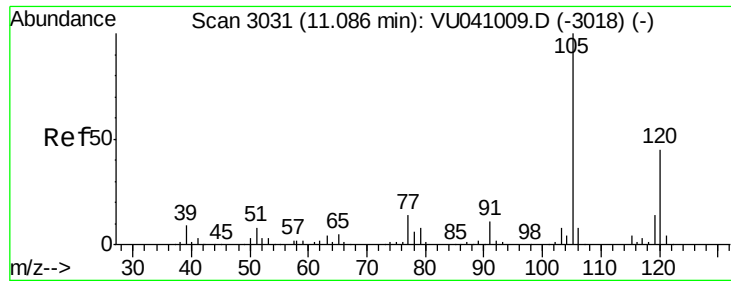
MMDadoda
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#61
1,2,3-Trichloropropane
Concen: 0.278 ug/L
RT: 10.82 min Scan# 2949
Delta R.T. 0.00 min
Lab File: VU041013.D
Acq: 29 Oct 2020 12:31

Tgt Ion	Ratio	Lower	Upper
75	100		
110	34.5	27.5	41.3
77	26.6	24.9	37.3





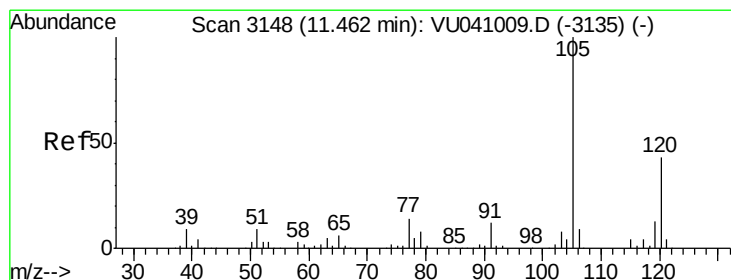
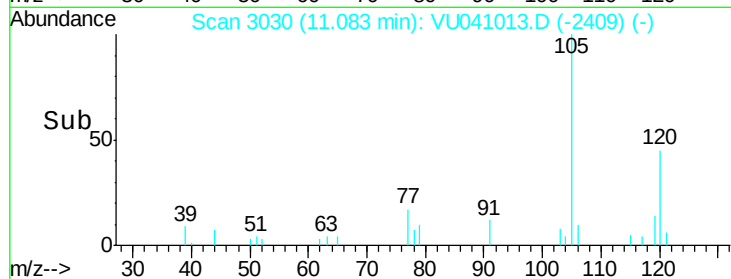
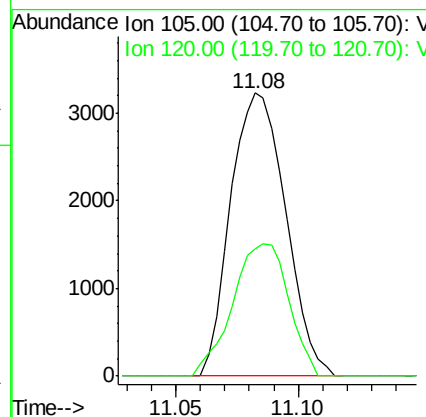
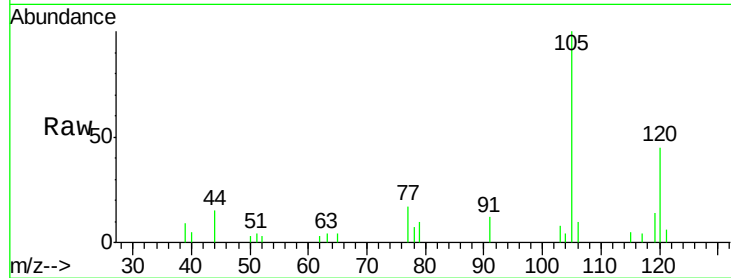
#62
 1,3,5-Trimethylbenzene
 Concen: 0.226 ug/L
 RT: 11.08 min Scan# 3030
 Delta R.T. -0.00 min
 Lab File: VU041013.D
 Acq: 29 Oct 2020 12:31

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-07

Tot Ion:105 Resp: 5069
 Ion Ratio Lower Upper
 105 100
 120 47.5 38.0 57.0

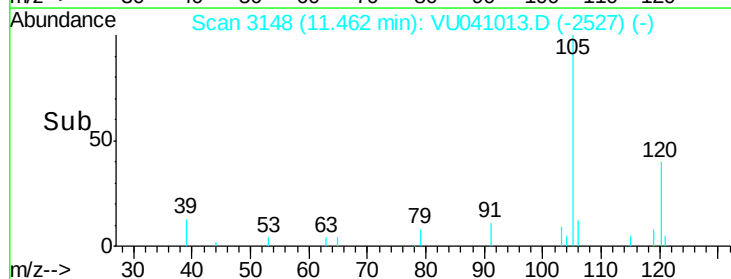
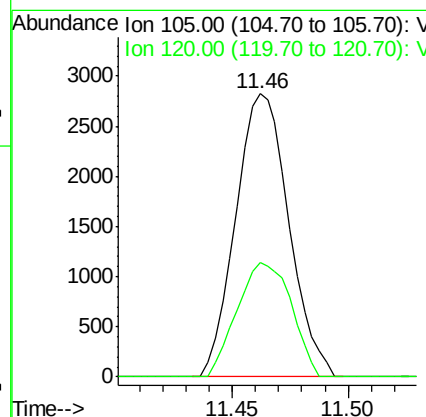
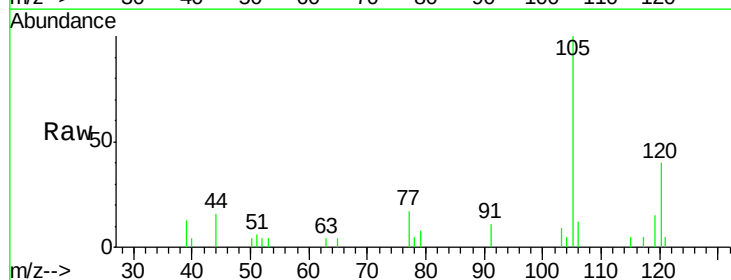
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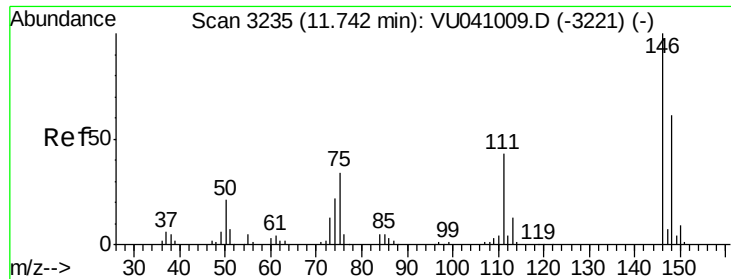
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#63
 1,2,4-Trimethylbenzene
 Concen: 0.198 ug/L
 RT: 11.46 min Scan# 3148
 Delta R.T. -0.00 min
 Lab File: VU041013.D
 Acq: 29 Oct 2020 12:31

Tgt Ion:105 Resp: 4491
 Ion Ratio Lower Upper
 105 100
 120 41.1 34.6 52.0





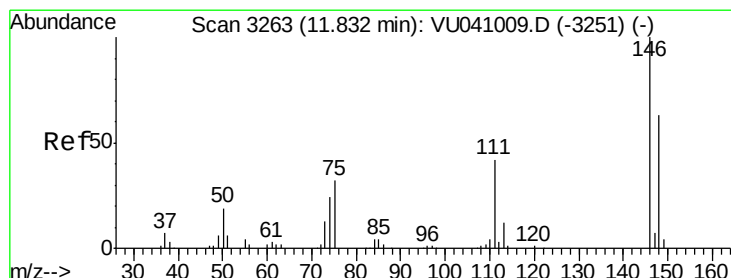
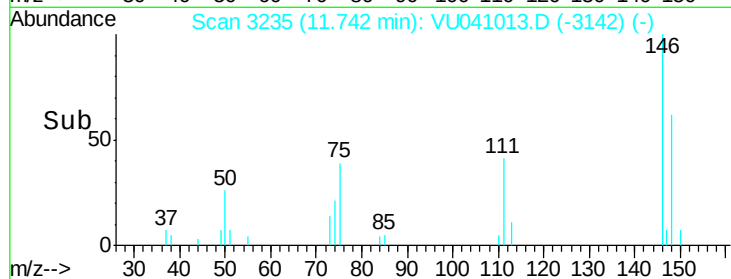
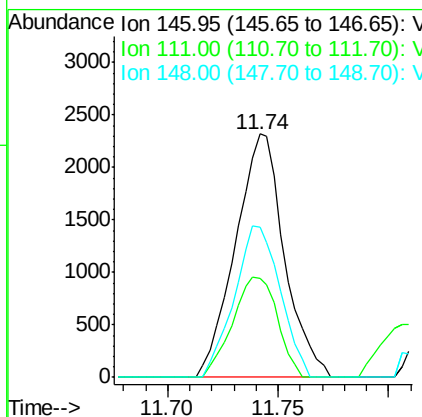
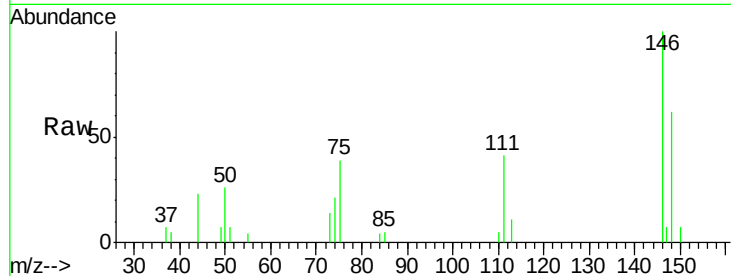
#64
 1,3-Dichlorobenzene
 Concen: 0.257 ug/L
 RT: 11.74 min Scan# 3235
 Delta R.T. 0.00 min
 Lab File: VU041013.D
 Acq: 29 Oct 2020 12:31

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-07

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.9	30.2	56.0
148	61.9	42.9	79.7

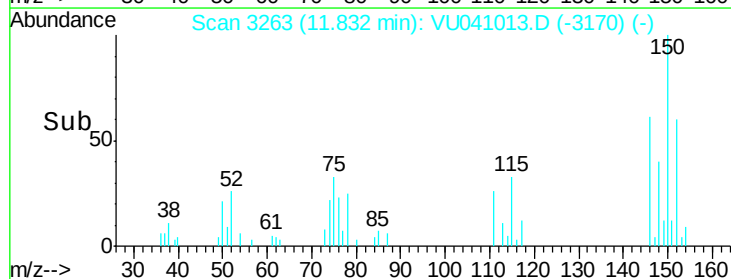
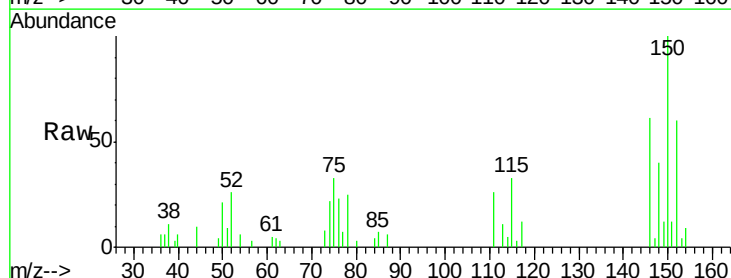
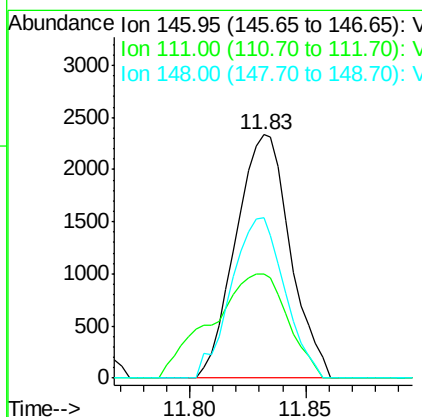
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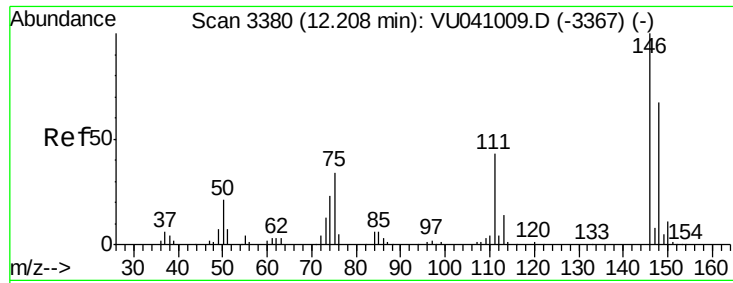
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#65
 1,4-Dichlorobenzene
 Concen: 0.267 ug/L
 RT: 11.83 min Scan# 3263
 Delta R.T. 0.00 min
 Lab File: VU041013.D
 Acq: 29 Oct 2020 12:31

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.9	28.3	52.7
148	65.8	44.1	81.9





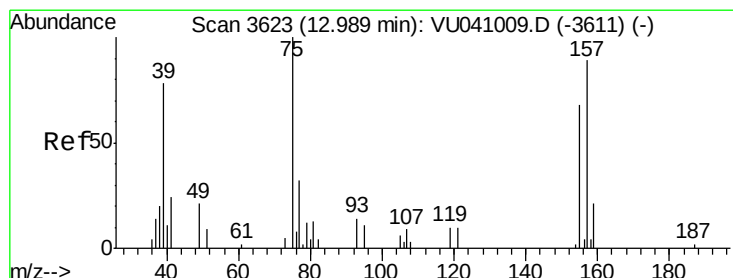
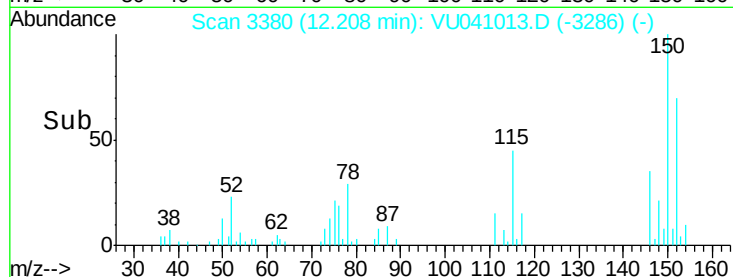
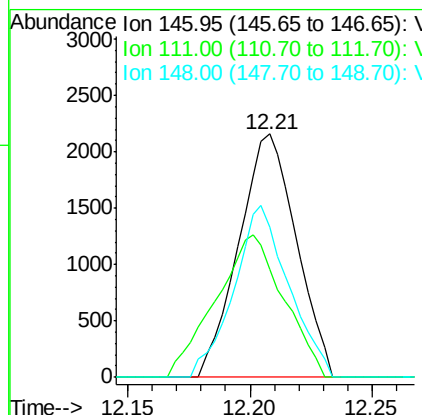
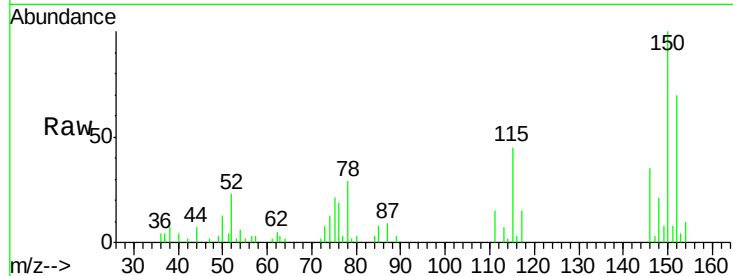
#67
 1,2-Dichlorobenzene
 Concen: 0.261 ug/L
 RT: 12.21 min Scan# 3380
 Delta R.T. 0.00 min
 Lab File: VU041013.D
 Acq: 29 Oct 2020 12:31

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-07

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.3	34.7	52.1
148	61.7	50.7	76.1

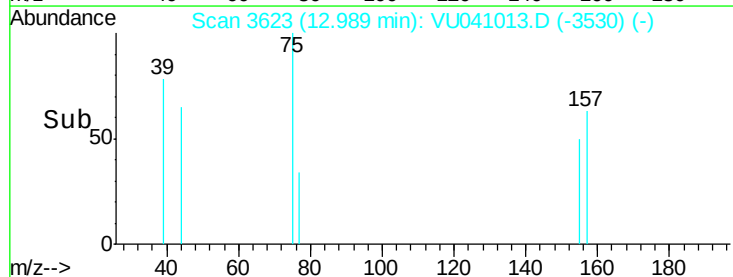
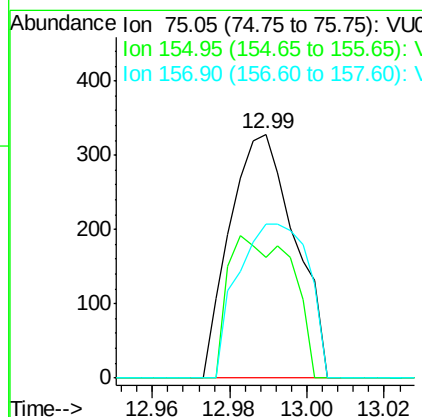
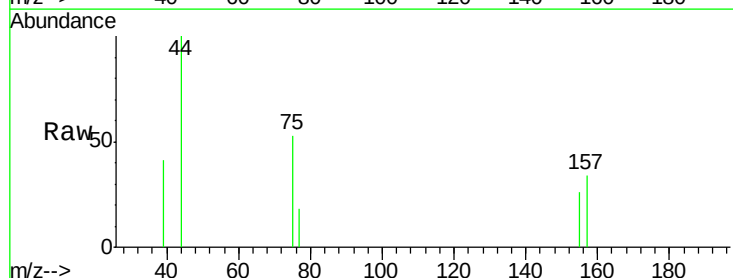
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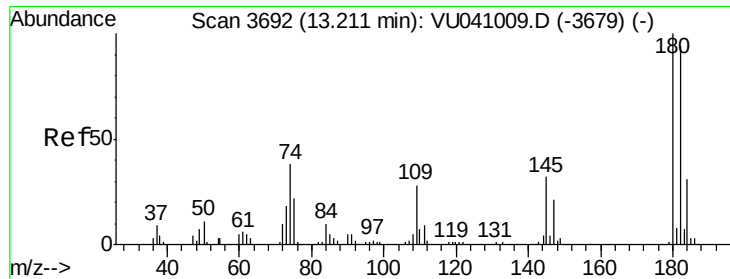
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#68
 1,2-Dibromo-3-chloropropane
 Concen: 0.287 ug/L
 RT: 12.99 min Scan# 3623
 Delta R.T. 0.00 min
 Lab File: VU041013.D
 Acq: 29 Oct 2020 12:31

Tgt Ion	Ratio	Lower	Upper
75	100		
155	49.7	60.2	90.2#
157	63.4	74.4	111.6#





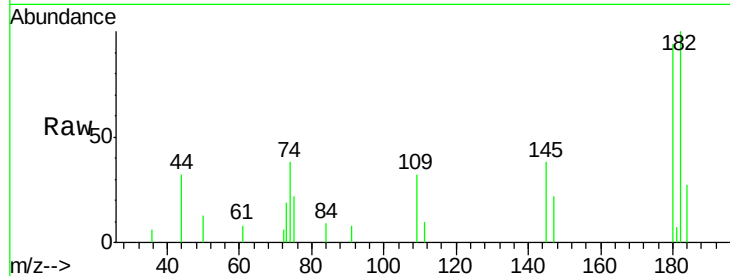
#69
 1,3,5-Trichlorobenzene
 Concen: 0.255 ug/L
 RT: 13.21 min Scan# 3692
 Delta R.T. 0.00 min
 Lab File: VU041013.D
 Acq: 29 Oct 2020 12:31

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-07

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.4	76.9	115.3
184	31.1	23.8	35.8
145	32.7	25.2	37.8

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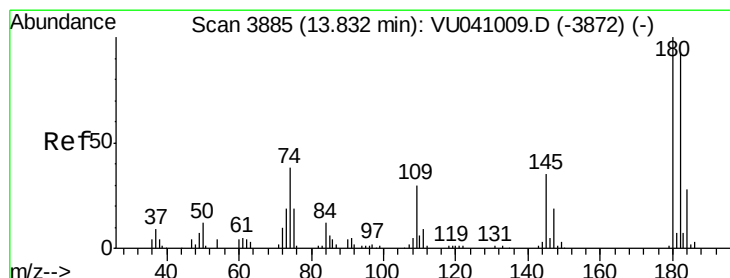
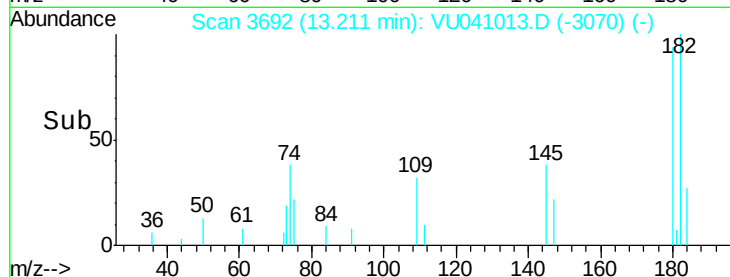
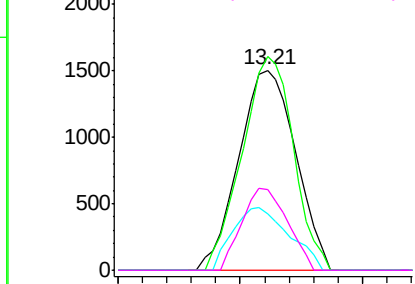


Abundance Ion 180.00 (179.70 to 180.70): V

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



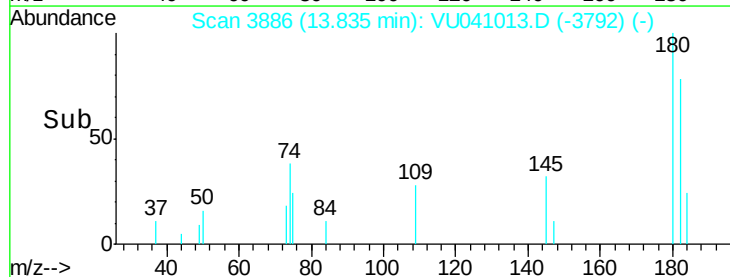
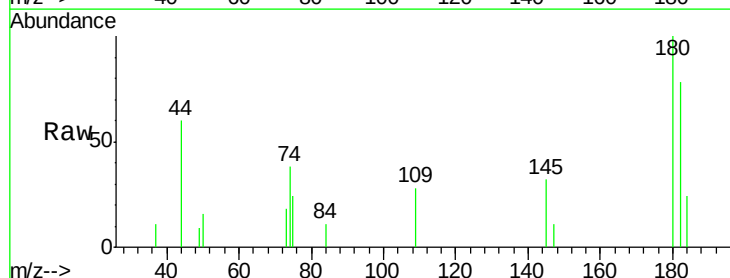
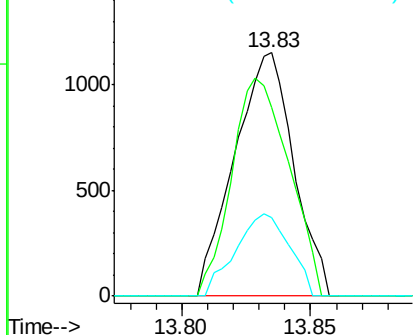
#70
 1,2,4-trichlorobenzene
 Concen: 0.229 ug/L
 RT: 13.83 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VU041013.D
 Acq: 29 Oct 2020 12:31

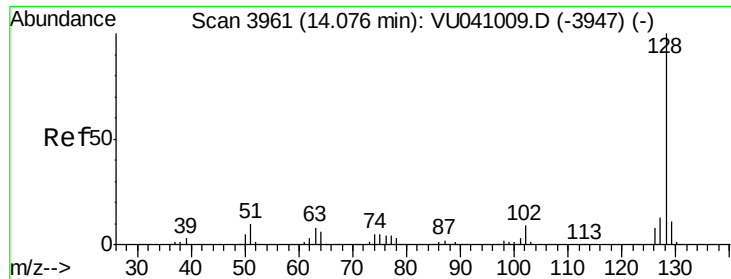
Tgt Ion	Ratio	Lower	Upper
180	100		
182	86.8	74.5	111.7
145	30.8	26.6	39.8

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





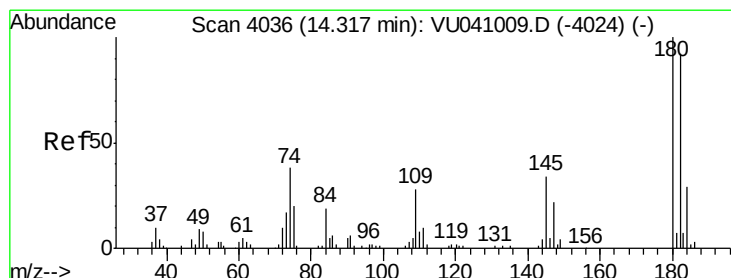
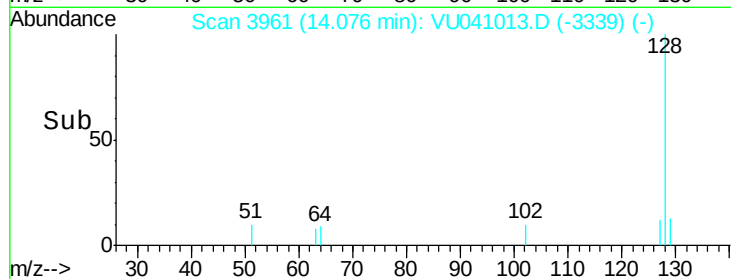
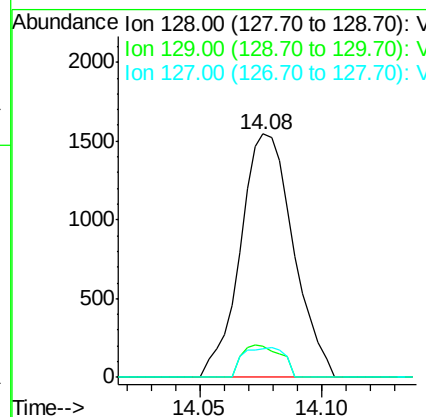
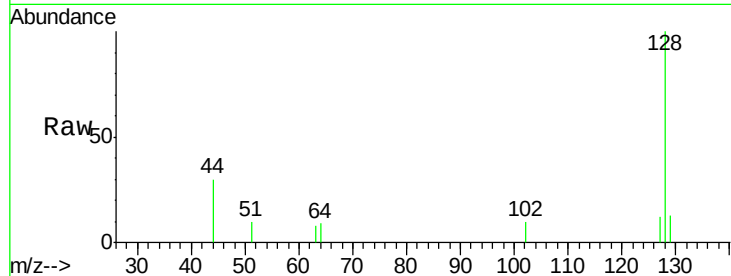
#71
Naphthalene
Concen: 0.165 ug/L
RT: 14.08 min Scan# 3961
Delta R.T. 0.00 min
Lab File: VU041013.D
Acq: 29 Oct 2020 12:31

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-07

Tot Ion	Ratio	Lower	Upper
128	100		
129	9.8	8.8	13.2
127	9.5	11.2	16.8

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#72
1,2,3-Trichlorobenzene
Concen: 0.234 ug/L
RT: 14.32 min Scan# 4037
Delta R.T. 0.00 min
Lab File: VU041013.D
Acq: 29 Oct 2020 12:31

Tgt Ion	Ratio	Lower	Upper
180	100		
182	89.6	76.7	115.1
145	20.7	27.4	41.0

