

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV110320\
 Data File : VV019225.D
 Acq On : 03 Nov 2020 02:51
 Operator : SY/MD
 Sample : L4485-10
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-03

Manual Integrations
 APPROVED

MMDadoda
 11/4/2020 10:45:08 AM

Quant Time: Nov 03 06:43:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM110320WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Nov 03 05:28:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	229115	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	223422	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.27	152	111737	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	87268	49.35	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	98.70%
7) Chloroethane-d5	1.58	69	74123	53.50	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	107.00%
11) 1,1-Dichloroethene-d2	2.13	63	134449	41.07	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	82.14%
21) 2-Butanone-d5	3.91	46	109164	111.97	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	111.97%
24) Chloroform-d	4.38	84	166945	50.45	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.90%
26) 1,2-Dichloroethane-d4	5.06	65	119881	51.99	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.98%
32) Benzene-d6	5.07	84	318148	51.57	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.14%
36) 1,2-Dichloropropane-d6	6.09	67	97100	52.72	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	105.44%
41) Toluene-d8	7.34	98	288220	50.15	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.30%
43) trans-1,3-Dichloropropene-	7.64	79	51112	49.01	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	98.02%
47) 2-Hexanone-d5	8.11	63	71566	100.08	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	100.08%
56) 1,1,2,2-Tetrachloroethane-	10.23	84	121735	49.60	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	99.20%
66) 1,2-Dichlorobenzene-d4	11.65	152	122112	54.63	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	109.26%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	3349	2.386 ug/L	97
3) Chloromethane	1.25	50	4015	2.747 ug/L	99
5) Vinyl chloride	1.32	62	4320	2.840 ug/L #	73
6) Bromomethane	1.53	94	3063	2.996 ug/L	88
8) Chloroethane	1.60	64	2988	3.003 ug/L	97
9) Trichlorofluoromethane	1.77	101	6446	2.559 ug/L	96
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	3985	3.330 ug/L #	77
12) 1,1-Dichloroethene	2.14	96	4396	3.554 ug/L #	1
13) Acetone	2.20	43	4546	6.131 ug/L	80
14) Carbon disulfide	2.32	76	9376	2.640 ug/L	99
15) Methyl Acetate	2.46	43	4283	2.981 ug/L #	68
16) Methylene chloride	2.53	84	4396	2.990 ug/L	97
17) trans-1,2-Dichloroethene	2.78	96	3413	2.544 ug/L	88
18) Methyl tert-butyl Ether	2.79	73	12632	2.678 ug/L	100
19) 1,1-Dichloroethane	3.22	63	7079	2.693 ug/L	97
20) cis-1,2-Dichloroethene	3.95	96	3875	2.613 ug/L	98
22) 2-Butanone	4.03	43	5090m	5.408 ug/L	

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Manual Integrations
 APPROVED

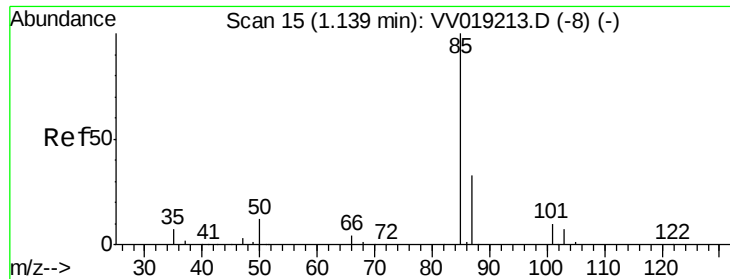
MMDadoda
 11/4/2020 10:45:08 AM

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM110320WMA.M
 Quant Title : VOC Analysis
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.28	128	2040m	2.499	ug/L	
25) Chloroform	4.41	83	8468	3.004	ug/L	97
27) 1,2-Dichloroethane	5.17	62	7106	2.966	ug/L	95
29) Cyclohexane	4.70	56	4121	2.155	ug/L #	67
30) 1,1,1-Trichloroethane	4.64	97	6578	2.539	ug/L	99
31) Carbon tetrachloride	4.86	117	4926	2.202	ug/L	96
33) Benzene	5.13	78	13472	2.426	ug/L	100
34) Trichloroethene	5.95	95	3709	2.458	ug/L	94
35) Methylcyclohexane	6.16	83	4109	2.250	ug/L	95
37) 1,2-Dichloropropane	6.21	63	4021	2.714	ug/L #	89
38) Bromodichloromethane	6.54	83	5099	2.391	ug/L	93
39) cis-1,3-Dichloropropene	7.05	75	5766	2.432	ug/L	99
40) 4-Methyl-2-pentanone	7.25	43	9693	4.869	ug/L	97
42) Toluene	7.41	91	16764	2.793	ug/L	98
44) trans-1,3-Dichloropropene	7.68	75	5715	2.352	ug/L	98
45) 1,1,2-Trichloroethane	7.86	97	3769	2.573	ug/L	93
46) Tetrachloroethene	8.00	164	2798	2.273	ug/L	99
48) 2-Hexanone	8.16	43	9170	6.093	ug/L	93
49) Dibromochloromethane	8.27	129	4449	2.547	ug/L	90
50) 1,2-Dibromoethane	8.38	107	3940	2.595	ug/L	91
51) Chlorobenzene	8.90	112	9809	2.443	ug/L	97
52) Ethylbenzene	9.04	91	14319	2.162	ug/L	97
53) m,p-Xylene	9.16	106	5448	2.198	ug/L	96
54) o-Xylene	9.57	106	5371	2.198	ug/L	90
55) Styrene	9.59	104	8546	1.965	ug/L	93
57) 1,1,2,2-Tetrachloroethane	10.26	83	6155	2.778	ug/L #	94
59) Bromoform	9.75	173	3174	2.559	ug/L #	97
60) Isopropylbenzene	9.95	105	13019	2.223	ug/L	98
61) 1,2,3-Trichloropropane	10.30	75	5110	2.944	ug/L	97
62) 1,3,5-Trimethylbenzene	10.56	105	10317	2.115	ug/L	99
63) 1,2,4-Trimethylbenzene	10.94	105	9903	2.075	ug/L	93
64) 1,3-Dichlorobenzene	11.21	146	7976	2.604	ug/L	93
65) 1,4-Dichlorobenzene	11.30	146	8322	2.626	ug/L	96
67) 1,2-Dichlorobenzene	11.66	146	8271	2.639	ug/L #	90
68) 1,2-Dibromo-3-chloropropan	12.45	75	1274	2.516	ug/L	91
69) 1,3,5-Trichlorobenzene	12.67	180	5168	2.351	ug/L	99
70) 1,2,4-trichlorobenzene	13.29	180	4426	2.139	ug/L	98
71) Naphthalene	13.53	128	10654	1.826	ug/L	98
72) 1,2,3-Trichlorobenzene	13.77	180	4295	2.094	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 2.386 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV019225.D

Acq: 03 Nov 2020 02:51

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-03

Tot Ion: 85 Resp: 3349

Ion Ratio Lower Upper

85 100

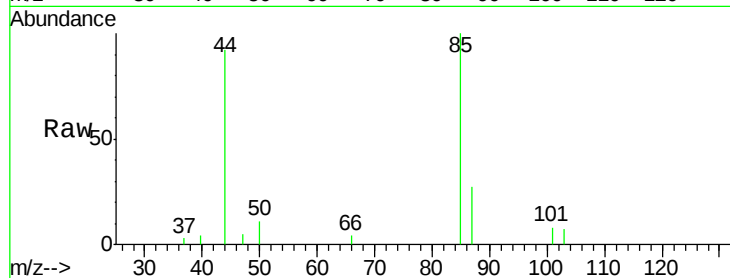
87 30.5 25.9 38.9

Manual Integrations

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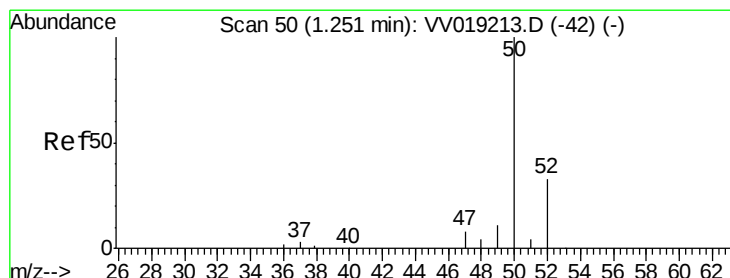
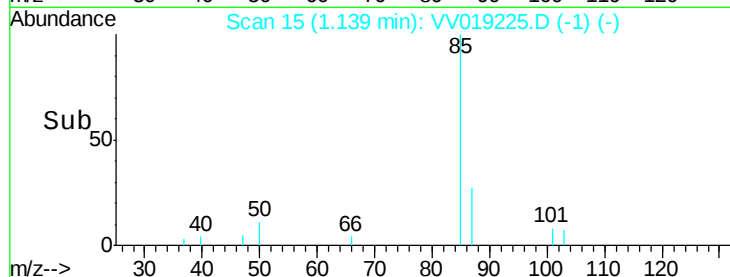
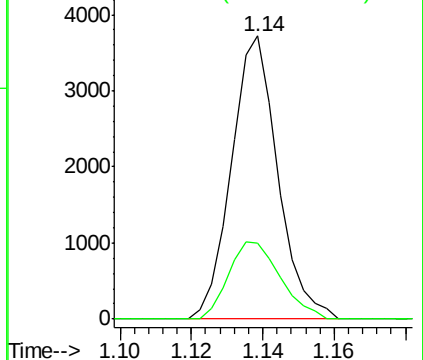
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Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 2.747 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV019225.D

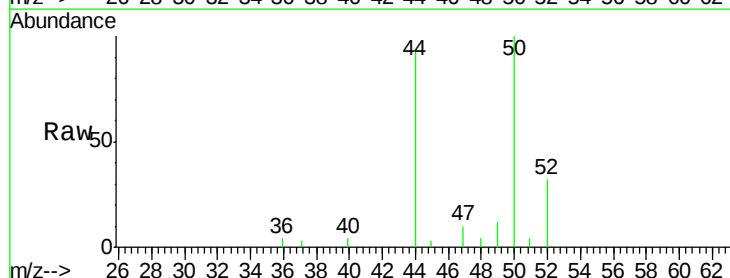
Acq: 03 Nov 2020 02:51

Tgt Ion: 50 Resp: 4015

Ion Ratio Lower Upper

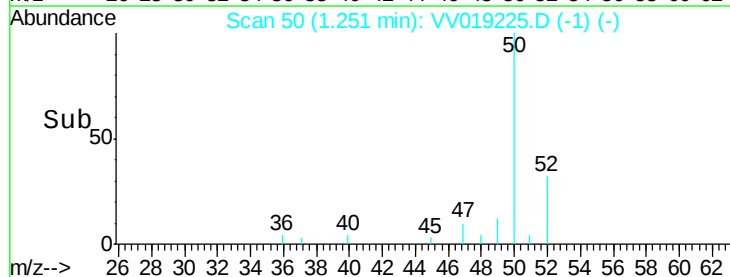
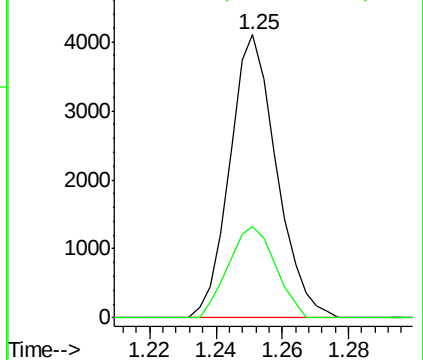
50 100

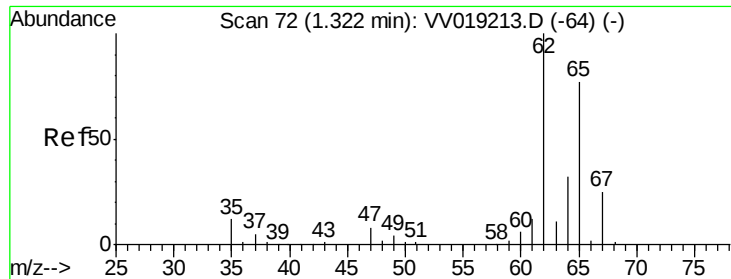
52 32.3 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 2.840 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV019225.D

Acq: 03 Nov 2020 02:51

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-03

Tot Ion: 62 Resp: 4320

Ion Ratio Lower Upper

62 100

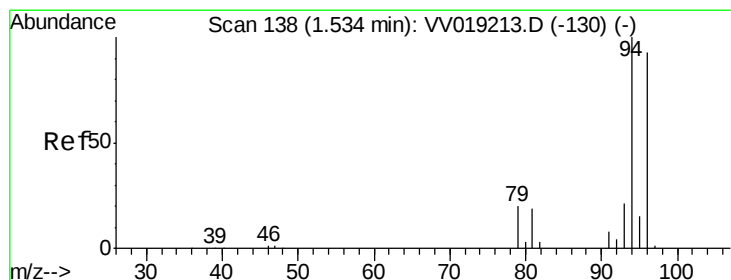
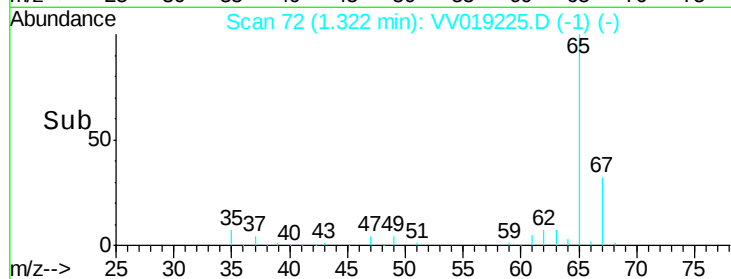
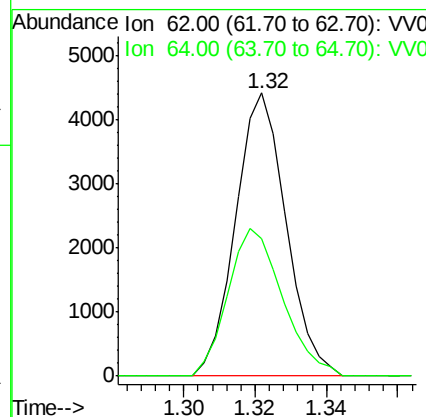
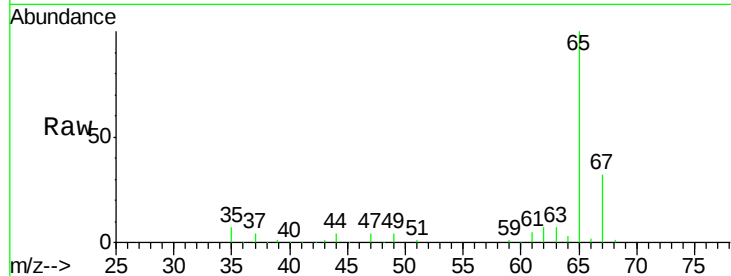
64 48.7 23.3 43.3#

Manual Integrations

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#6

Bromomethane

Concen: 2.996 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV019225.D

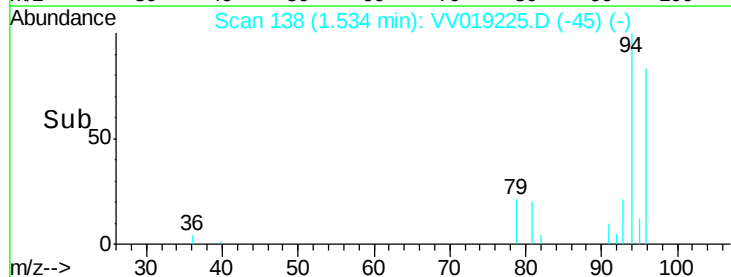
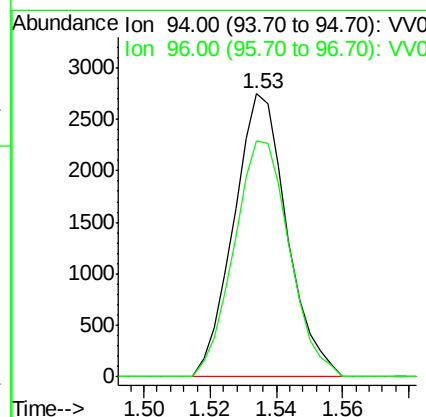
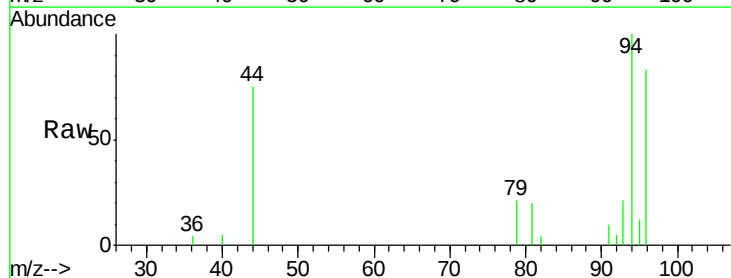
Acq: 03 Nov 2020 02:51

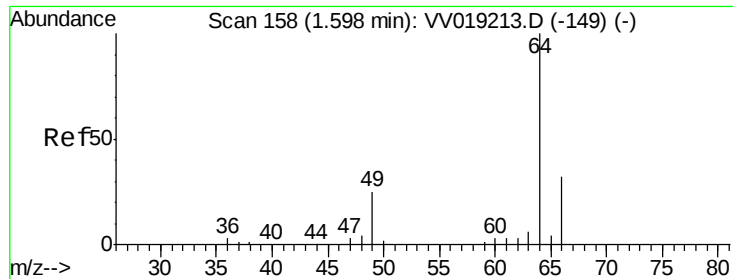
Tgt Ion: 94 Resp: 3063

Ion Ratio Lower Upper

94 100

96 83.4 66.4 123.2





#8

Chloroethane

Concen: 3.003 ug/L

RT: 1.60 min Scan# 158

Delta R.T. -0.00 min

Lab File: VV019225.D

Acq: 03 Nov 2020 02:51

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-03

Tot Ion: 64 Resp: 2988

Ion Ratio Lower Upper

64 100

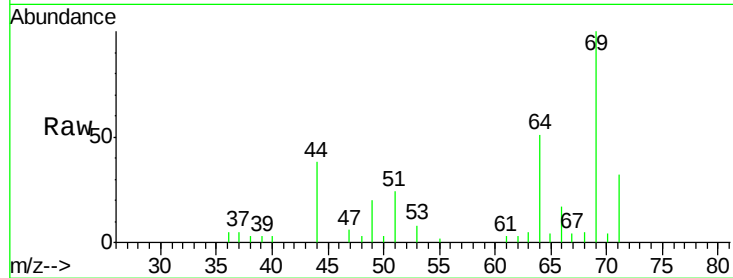
66 33.7 22.5 41.9

Manual Integrations

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Abundance Ion 64.00 (63.70 to 64.70): VV019213.D (-149) (-)

Ion 66.00 (65.70 to 66.70): VV019213.D (-149) (-)

1.60

2500

2000

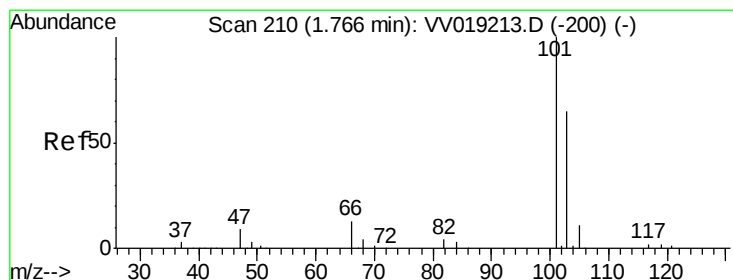
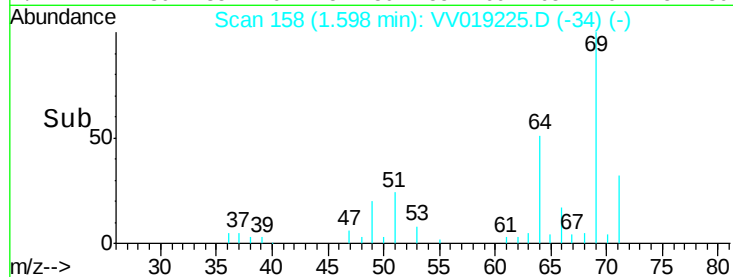
1500

1000

500

0

Time-->



#9

Trichlorofluoromethane

Concen: 2.559 ug/L

RT: 1.77 min Scan# 210

Delta R.T. -0.00 min

Lab File: VV019225.D

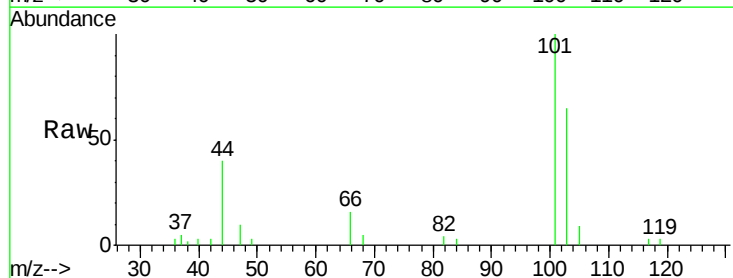
Acq: 03 Nov 2020 02:51

Tgt Ion: 101 Resp: 6446

Ion Ratio Lower Upper

101 100

103 62.3 52.3 78.5



Abundance Ion 101.00 (100.70 to 101.70): VV019213.D (-200) (-)

Ion 103.00 (102.70 to 103.70): VV019213.D (-200) (-)

1.77

5000

4000

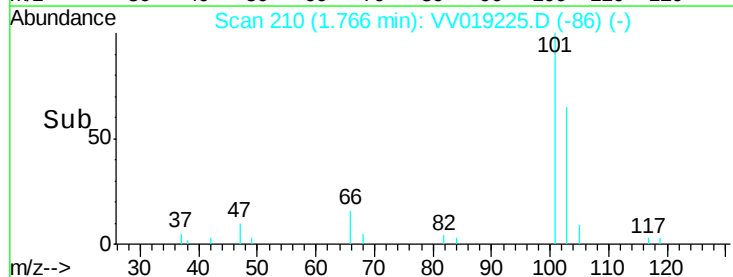
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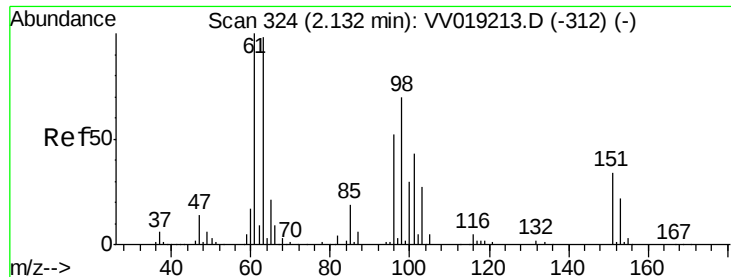
2000

1000

0

Time-->





#10

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

Concen: 3.330 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV019225.D

Acq: 03 Nov 2020 02:51

Instrument :

MSVOA_V

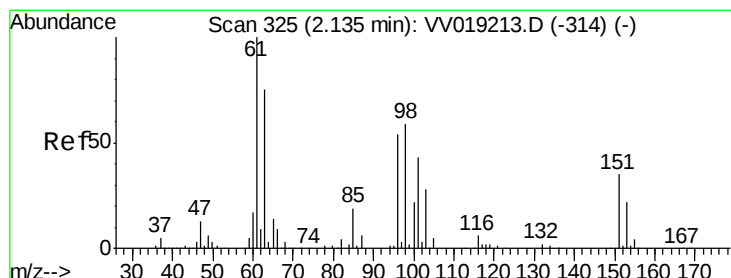
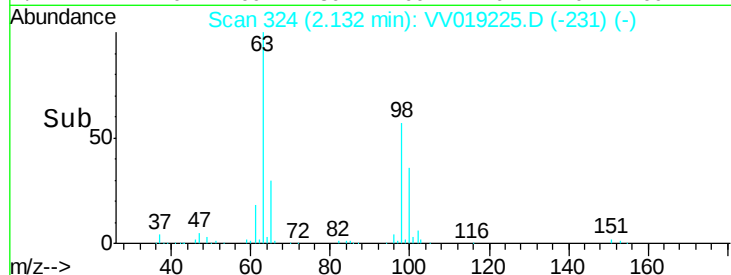
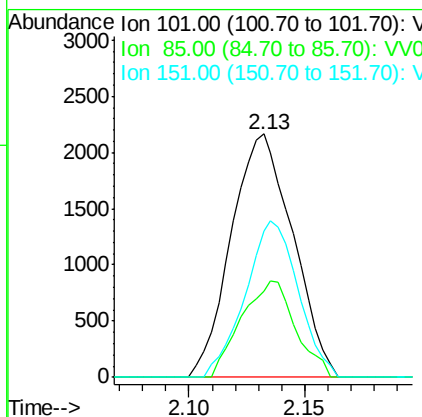
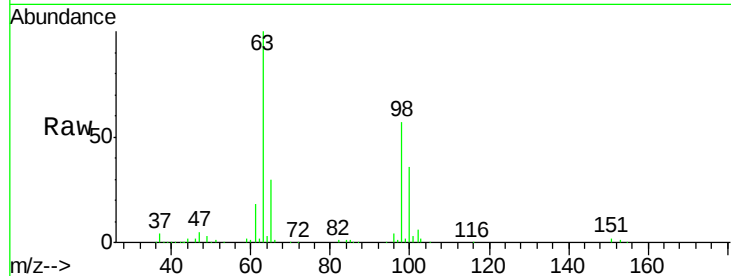
ClientSampleId :

MDL-WATER-03

Tot Ion:	101	Resp:	3985
Ion Ratio	Lower	Upper	
101	100		
85	34.8	35.6	53.4#
151	55.3	64.1	96.1#

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 3.554 ug/L

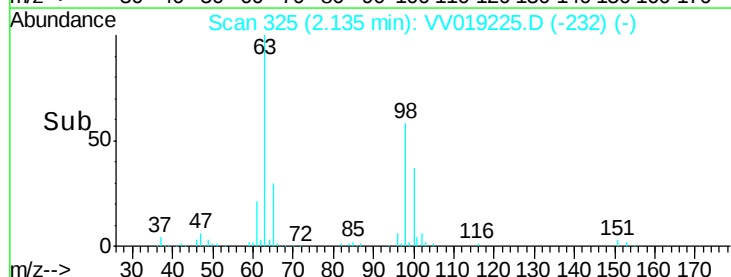
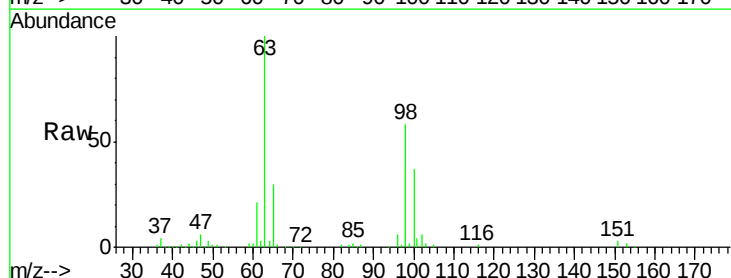
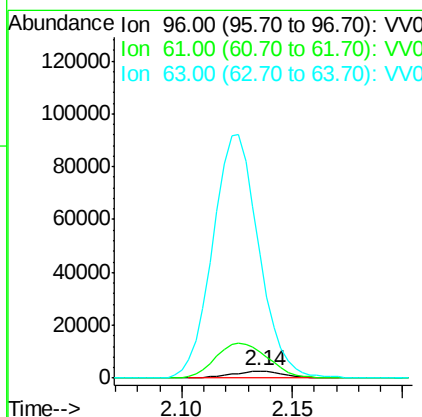
RT: 2.14 min Scan# 325

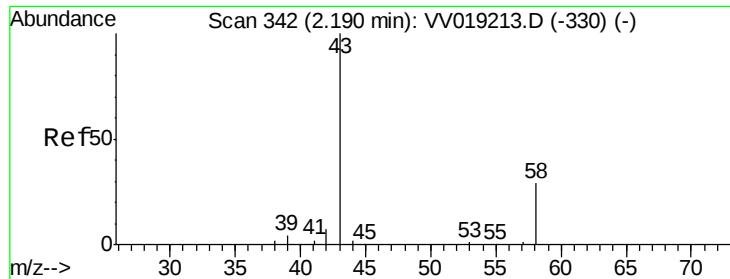
Delta R.T. -0.00 min

Lab File: VV019225.D

Acq: 03 Nov 2020 02:51

Tgt Ion:	96	Resp:	4396
Ion Ratio	Lower	Upper	
96	100		
61	372.1	133.6	248.0#
63	1757.0	103.0	191.2#





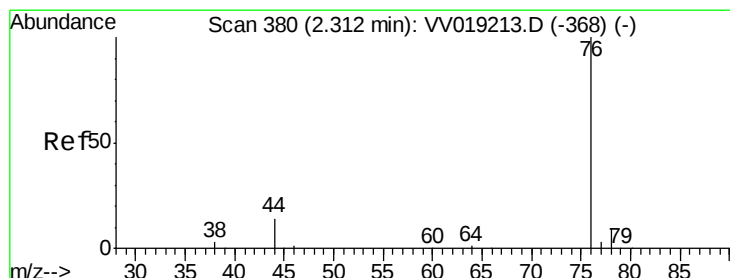
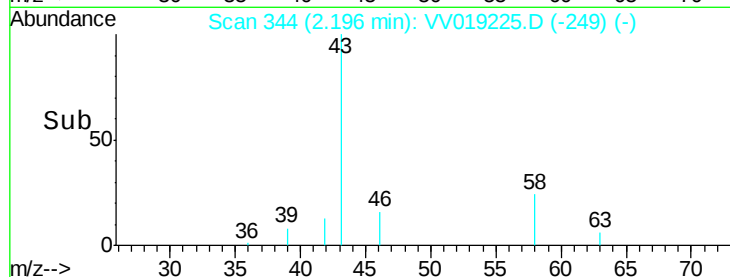
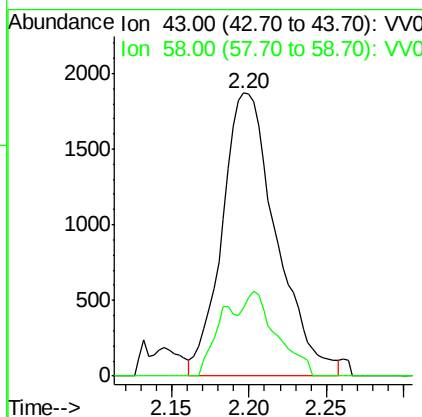
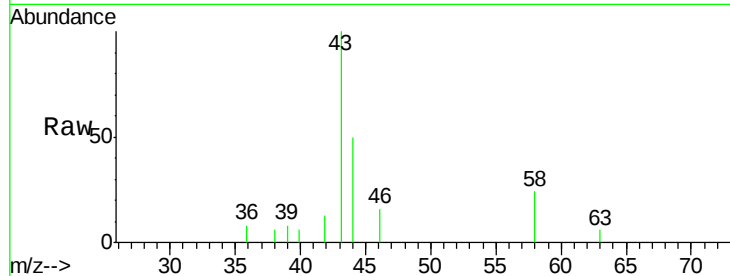
#13
Acetone
Concen: 6.131 ug/L
RT: 2.20 min Scan# 344
Delta R.T. 0.01 min
Lab File: VV019225.D
Acq: 03 Nov 2020 02:51

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-03

Tot Ion: 43 Resp: 4546
Ion Ratio Lower Upper
43 100
58 18.3 0.0 57.8

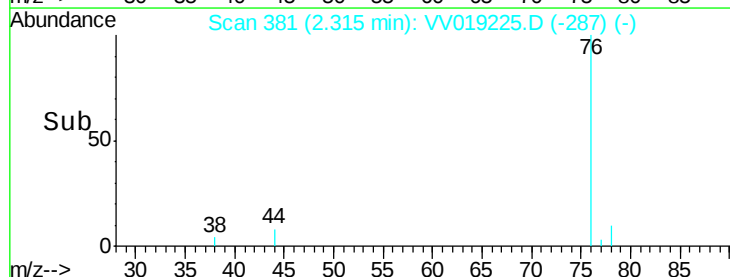
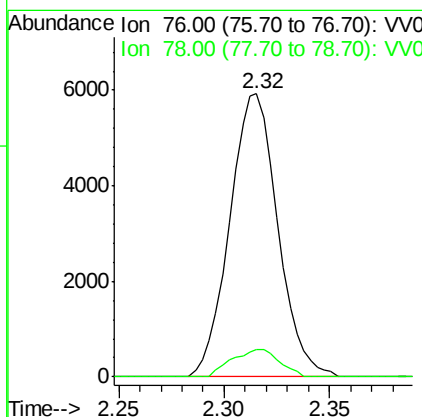
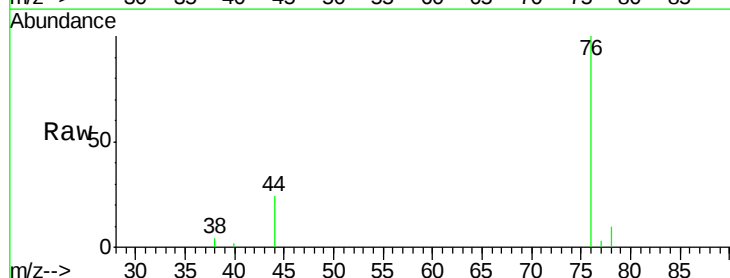
Manual Integrations
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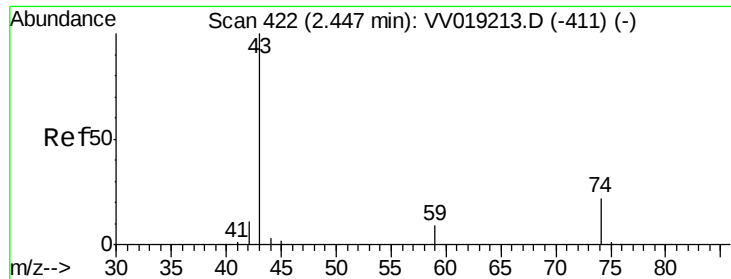
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11/4/2020 10:45:08 AM



#14
Carbon disulfide
Concen: 2.640 ug/L
RT: 2.32 min Scan# 381
Delta R.T. 0.00 min
Lab File: VV019225.D
Acq: 03 Nov 2020 02:51

Tgt Ion: 76 Resp: 9376
Ion Ratio Lower Upper
76 100
78 9.7 7.4 11.0





#15

Methvl Acetate

Concen: 2.981 ug/L

RT: 2.46 min Scan# 426

Delta R.T. 0.01 min

Lab File: VV019225.D

Acq: 03 Nov 2020 02:51

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-03

Tot Ion: 43 Resp: 4283

Ion Ratio Lower Upper

43 100

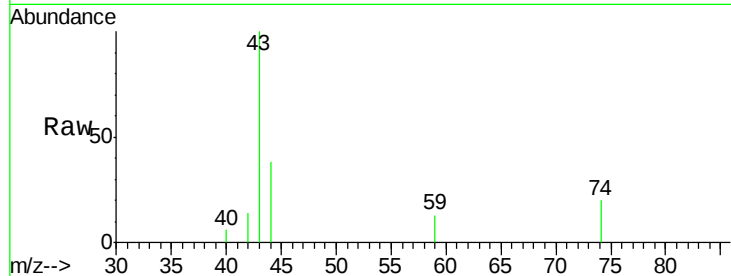
74 8.0 18.8 28.2#

Manual Integrations

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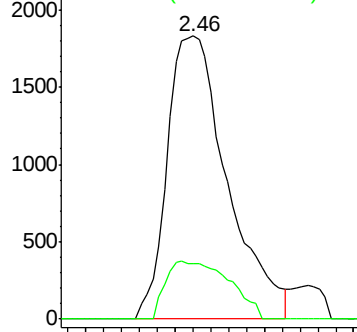
MMDadoda

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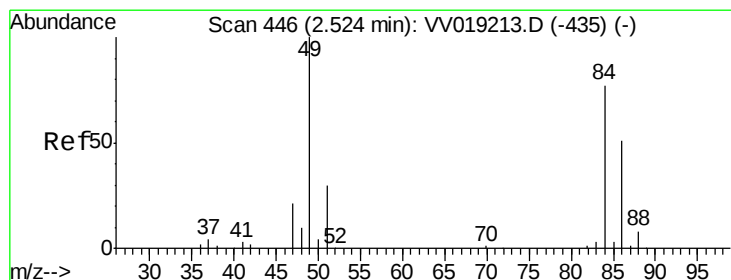
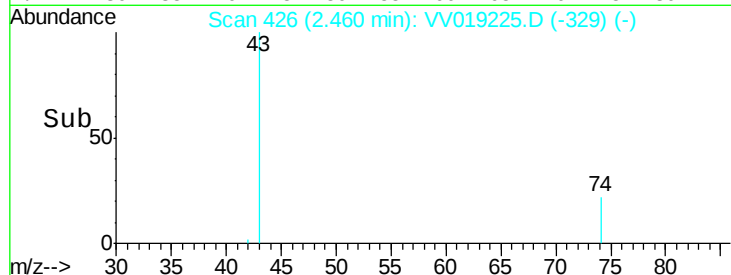


Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0



Time-->



#16

Methylene chloride

Concen: 2.990 ug/L

RT: 2.53 min Scan# 447

Delta R.T. 0.00 min

Lab File: VV019225.D

Acq: 03 Nov 2020 02:51

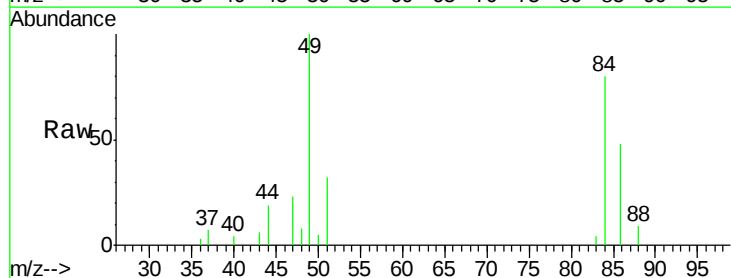
Tgt Ion: 84 Resp: 4396

Ion Ratio Lower Upper

84 100

86 60.7 45.6 84.8

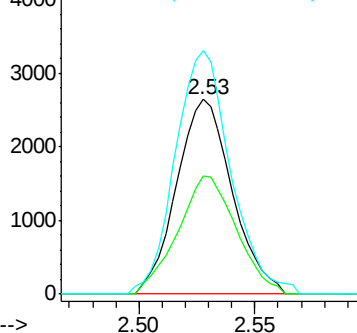
49 125.2 89.3 165.9



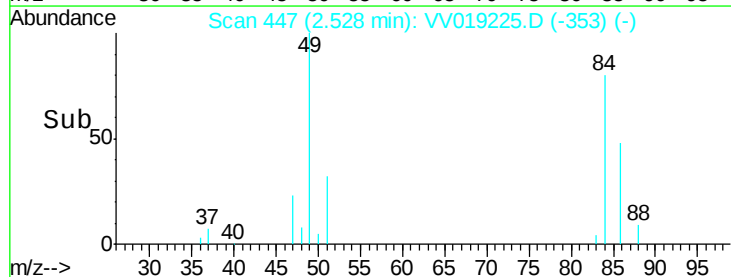
Abundance Ion 84.00 (83.70 to 84.70): VV0

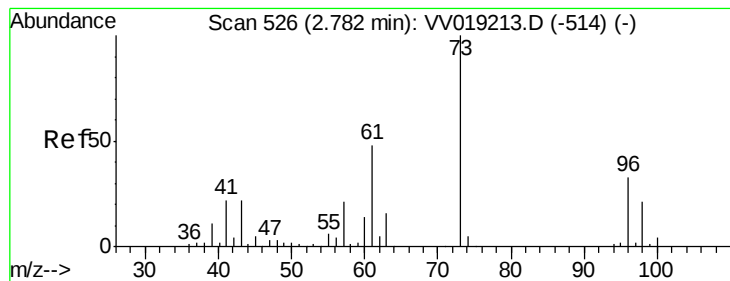
Ion 86.00 (85.70 to 86.70): VV0

Ion 49.00 (48.70 to 49.70): VV0



Time-->





#17

trans-1,2-Dichloroethene

Concen: 2.544 ug/L

RT: 2.78 min Scan# 527

Delta R.T. 0.00 min

Lab File: VV019225.D

Acq: 03 Nov 2020 02:51

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-03

Tot Ion: 96 Resp: 3413

Ion Ratio Lower Upper

96 100

61 162.0 100.7 187.1

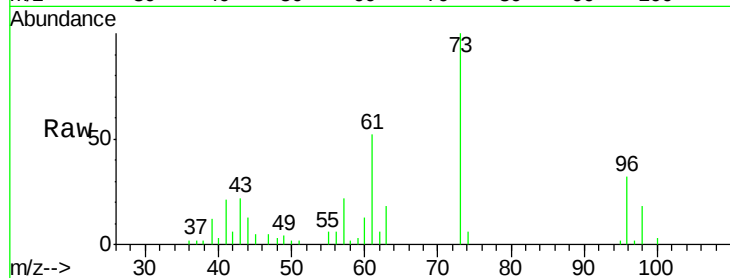
98 55.7 42.9 79.7

Manual Integrations

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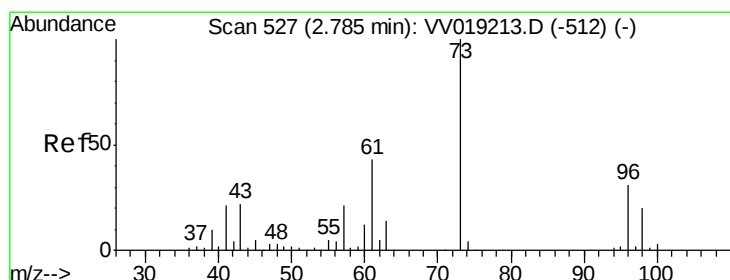
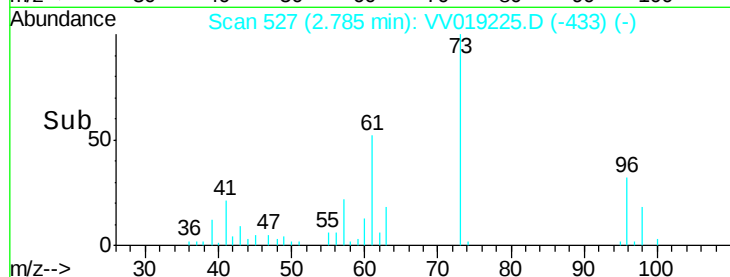
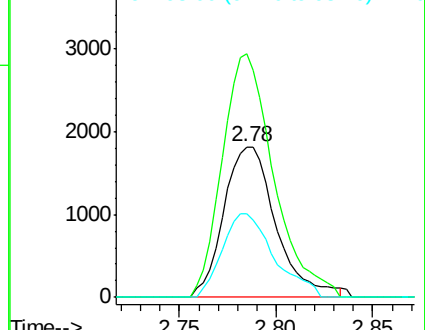
11/4/2020 10:45:08 AM



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 98.00 (97.70 to 98.70): VV0



#18

Methyl tert-butyl Ether

Concen: 2.678 ug/L

RT: 2.79 min Scan# 528

Delta R.T. 0.00 min

Lab File: VV019225.D

Acq: 03 Nov 2020 02:51

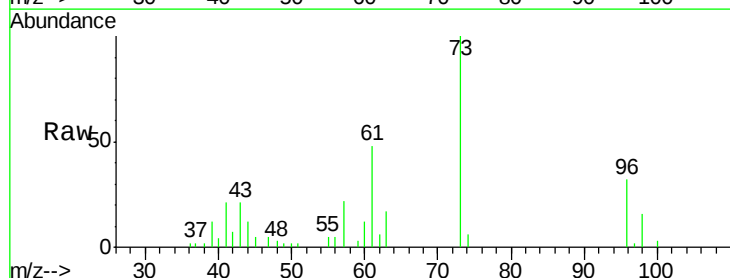
Tgt Ion: 73 Resp: 12632

Ion Ratio Lower Upper

73 100

43 22.6 17.9 26.9

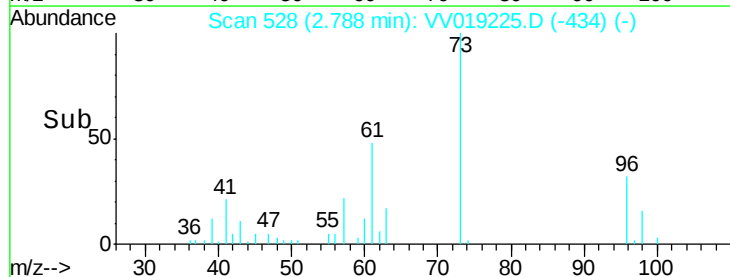
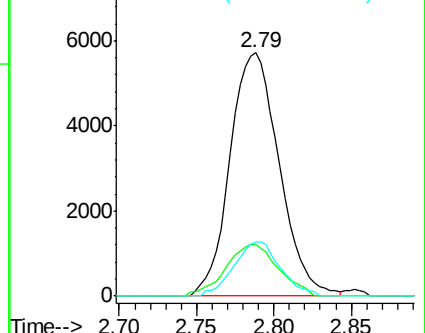
57 21.2 17.1 25.7

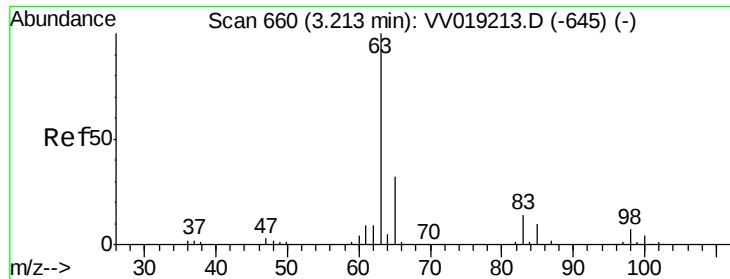


Abundance Ion 73.00 (72.70 to 73.70): VV0

Ion 43.00 (42.70 to 43.70): VV0

Ion 57.00 (56.70 to 57.70): VV0





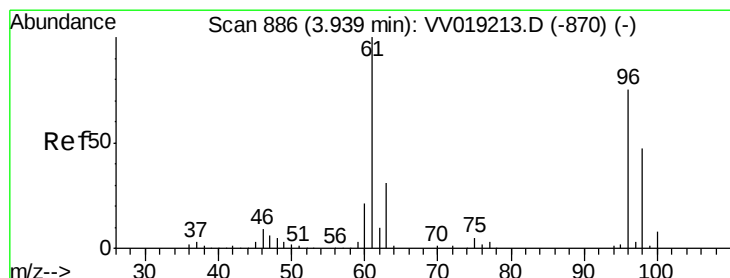
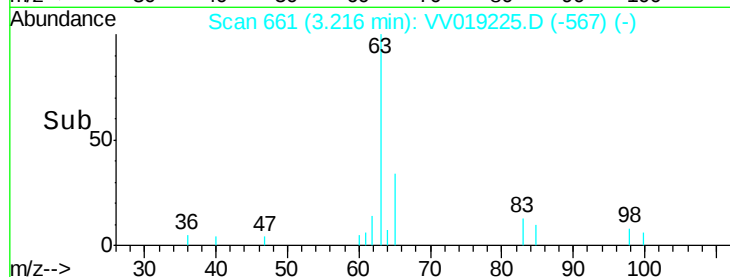
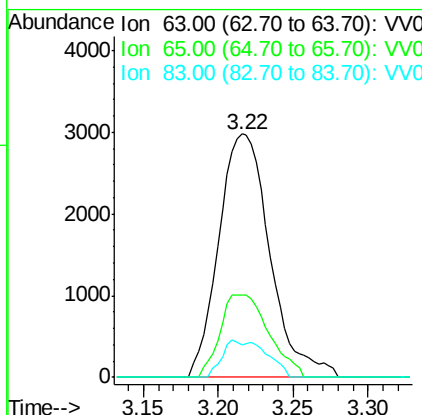
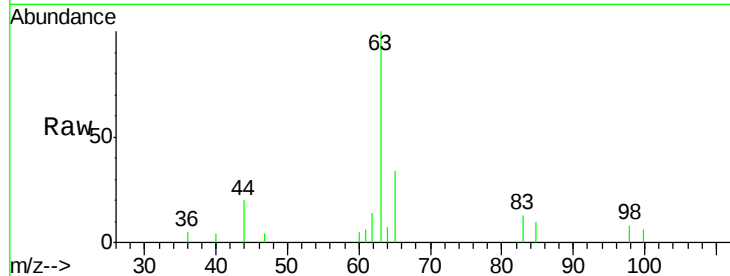
#19
 1,1-Dichloroethane
 Concen: 2.693 ug/L
 RT: 3.22 min Scan# 661
 Delta R.T. 0.00 min
 Lab File: VV019225.D
 Acq: 03 Nov 2020 02:51

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-03

Tot Ion	Ratio	Lower	Upper
63	100		
65	33.9	21.8	40.6
83	13.4	9.5	17.7

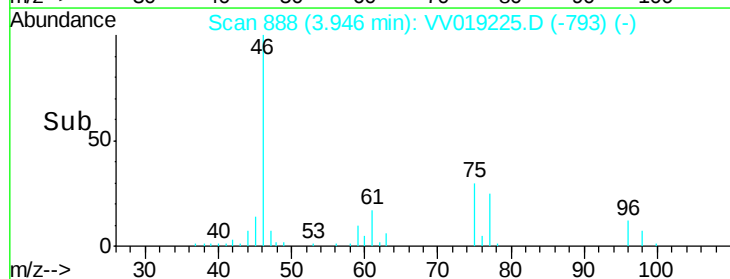
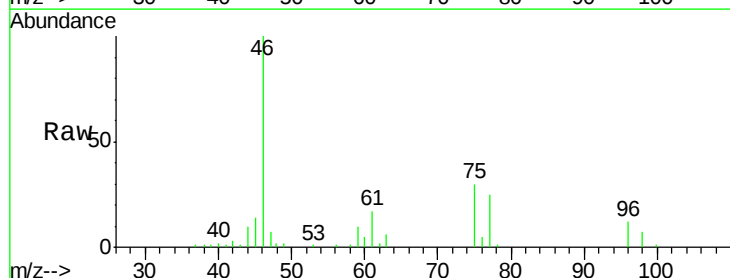
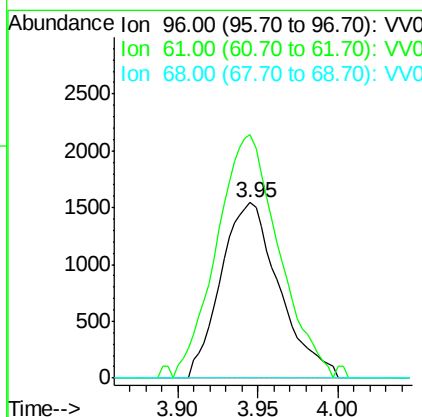
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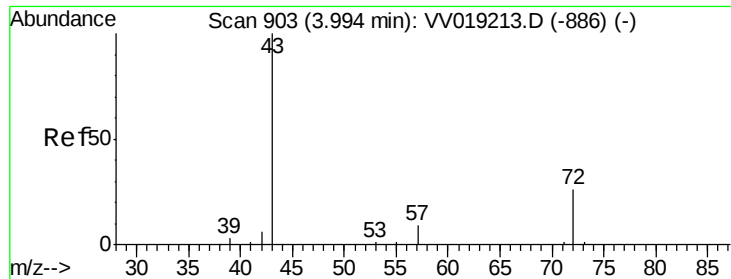
MMDadoda
 11/4/2020 10:45:08 AM



#20
 cis-1,2-Dichloroethene
 Concen: 2.613 ug/L
 RT: 3.95 min Scan# 888
 Delta R.T. 0.01 min
 Lab File: VV019225.D
 Acq: 03 Nov 2020 02:51

Tgt Ion	Ratio	Lower	Upper
96	100		
61	138.6	95.6	177.6
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 5.408 ug/L m

RT: 4.03 min Scan# 913

Delta R.T. 0.03 min

Lab File: VV019225.D

Acq: 03 Nov 2020 02:51

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-03

Tot Ion: 43 Resp: 5090

Ion Ratio Lower Upper

43 100

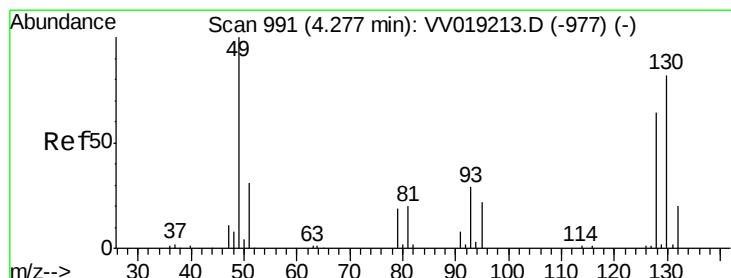
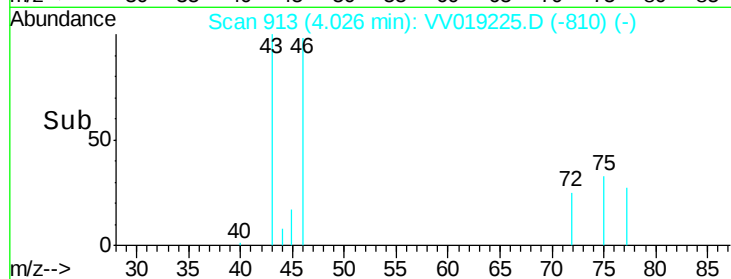
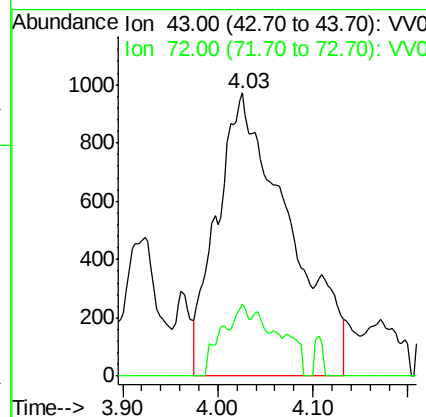
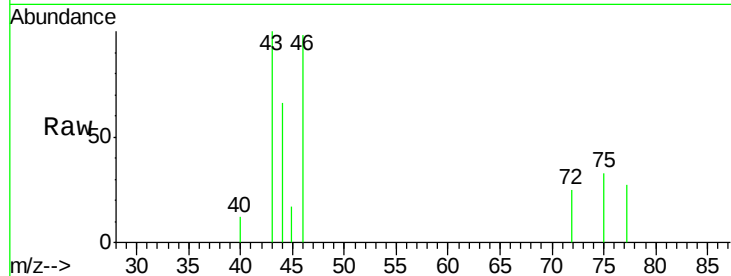
72 1.2 12.7 38.0#

Manual Integrations

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#23

Bromochloromethane

Concen: 2.499 ug/L m

RT: 4.28 min Scan# 993

Delta R.T. 0.01 min

Lab File: VV019225.D

Acq: 03 Nov 2020 02:51

Tgt Ion: 128 Resp: 2040

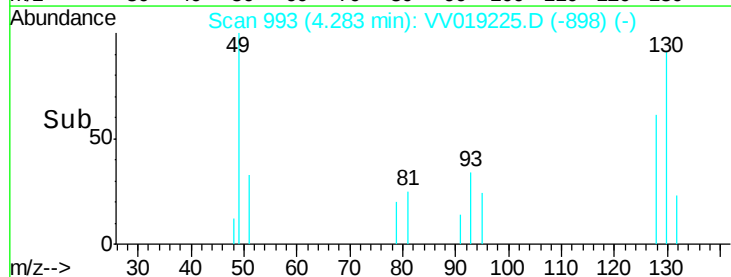
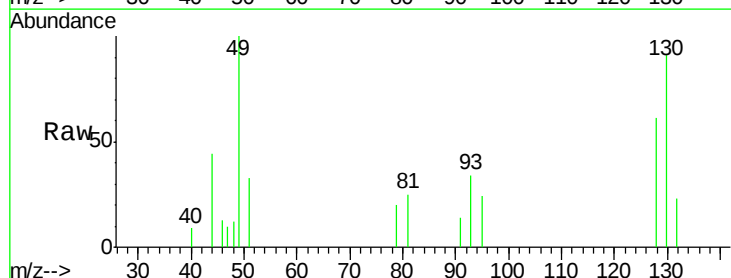
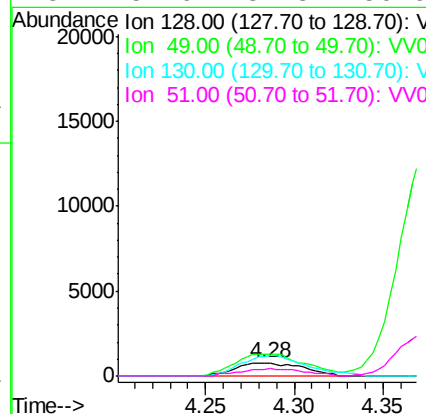
Ion Ratio Lower Upper

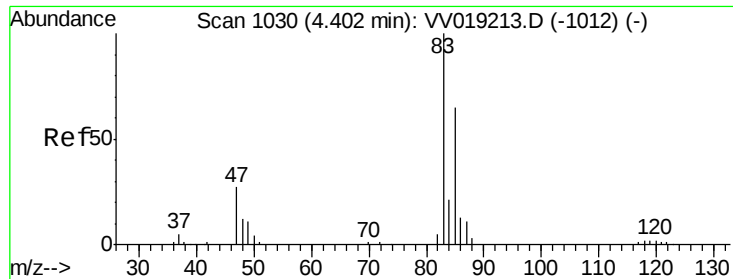
128 100

49 164.0 108.8 202.2

130 149.5 88.5 164.3

51 54.6 37.8 56.6





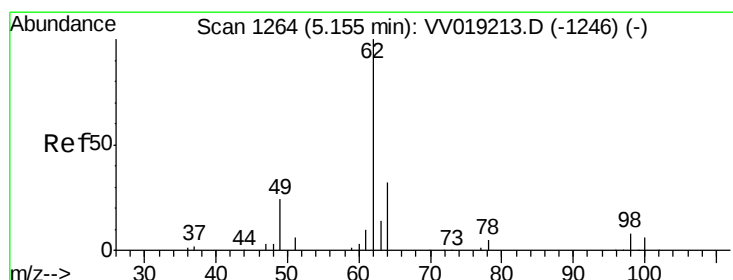
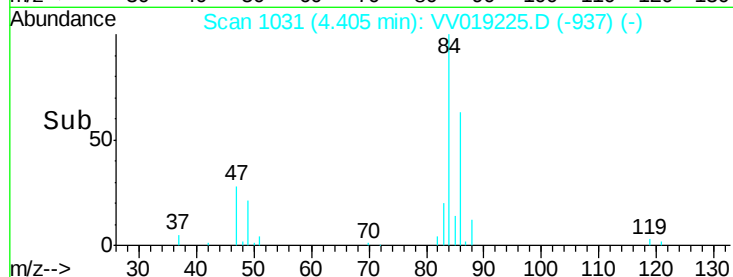
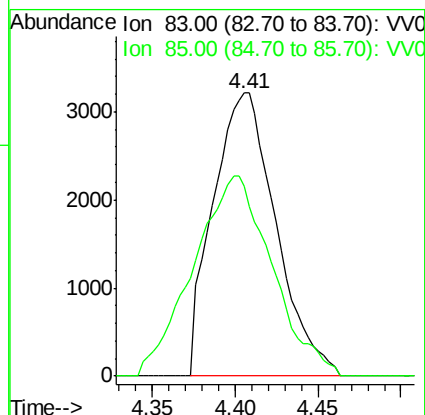
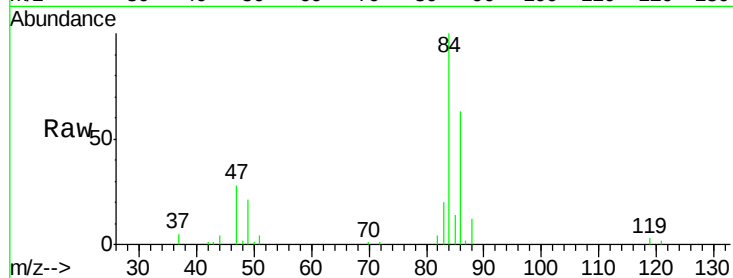
#25
Chloroform
Concen: 3.004 ug/L
RT: 4.41 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VV019225.D
Acq: 03 Nov 2020 02:51

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-03

Tot Ion: 83 Resp: 8468
Ion Ratio Lower Upper
83 100
85 67.1 45.4 84.4

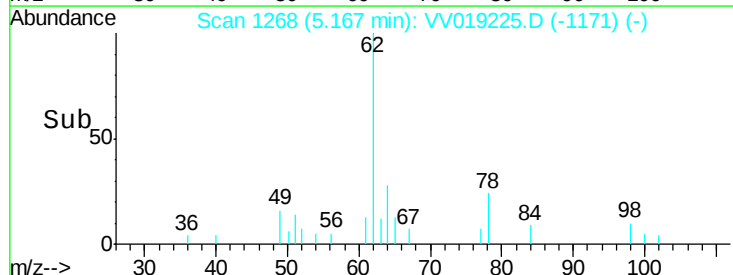
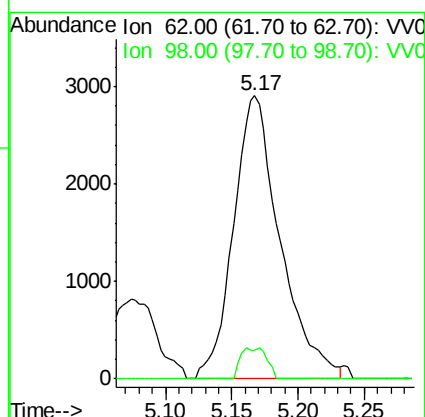
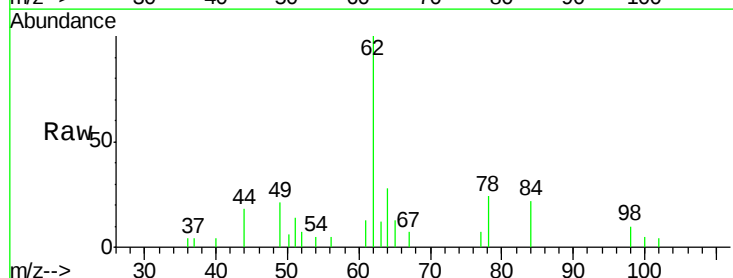
Manual Integrations
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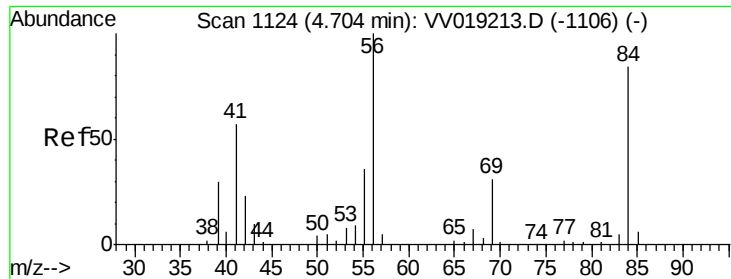
MMDadoda
11/4/2020 10:45:08 AM



#27
1,2-Dichloroethane
Concen: 2.966 ug/L
RT: 5.17 min Scan# 1268
Delta R.T. 0.01 min
Lab File: VV019225.D
Acq: 03 Nov 2020 02:51

Tgt Ion: 62 Resp: 7106
Ion Ratio Lower Upper
62 100
98 10.1 6.8 10.2





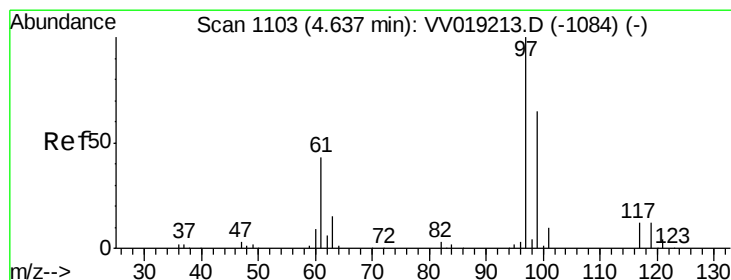
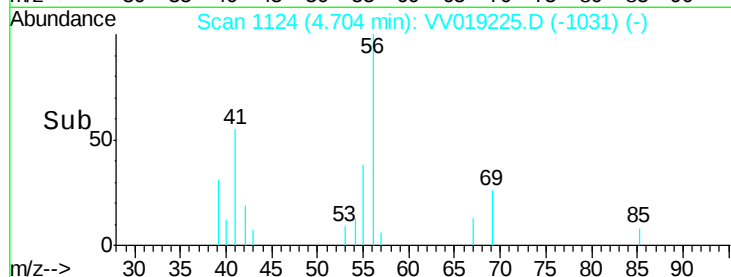
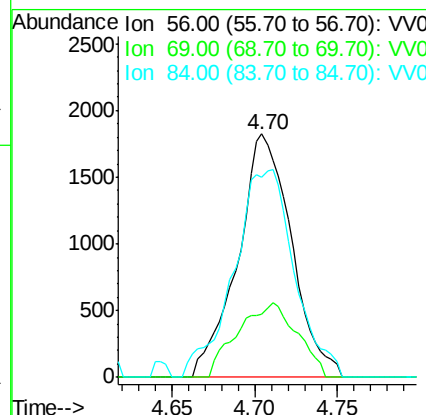
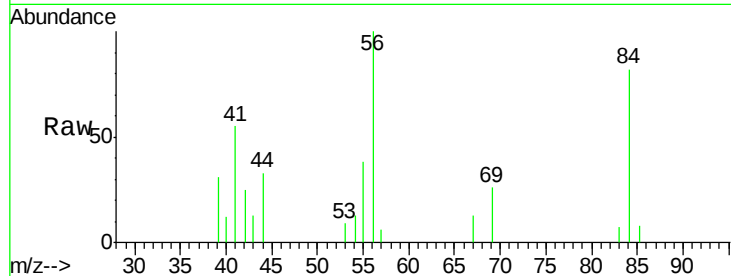
#29
Cyclohexane
Concen: 2.155 ug/L
RT: 4.70 min Scan# 1124
Delta R.T. -0.00 min
Lab File: VV019225.D
Acq: 03 Nov 2020 02:51

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-03

Tot Ion	Ratio	Lower	Upper
56	100		
69	33.7	24.6	36.8
84	48.6	70.5	105.7#

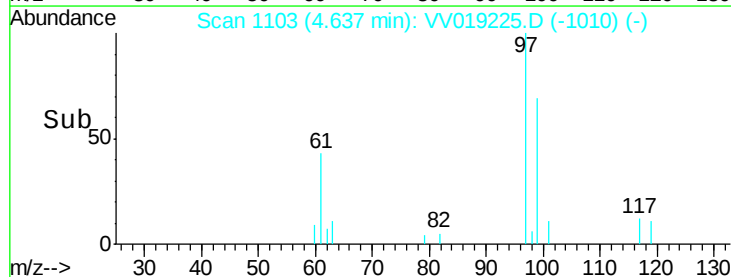
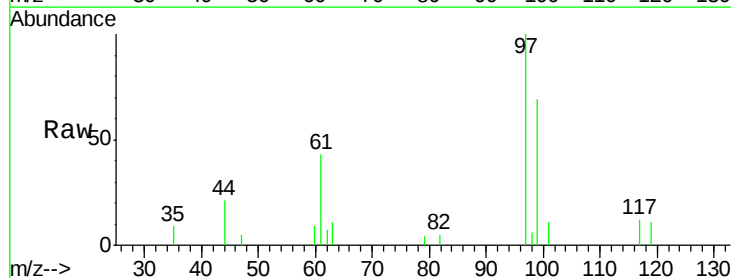
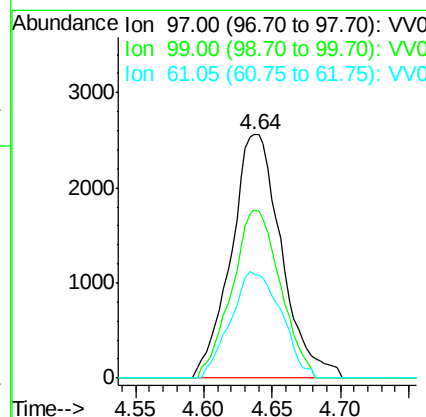
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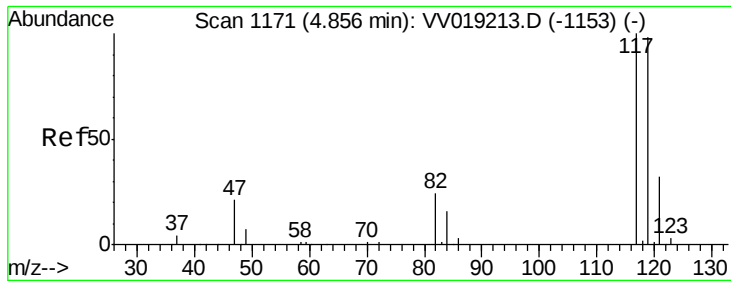
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#30
1,1,1-Trichloroethane
Concen: 2.539 ug/L
RT: 4.64 min Scan# 1103
Delta R.T. -0.00 min
Lab File: VV019225.D
Acq: 03 Nov 2020 02:51

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.9	52.0	78.0
61	43.3	35.3	52.9





#31

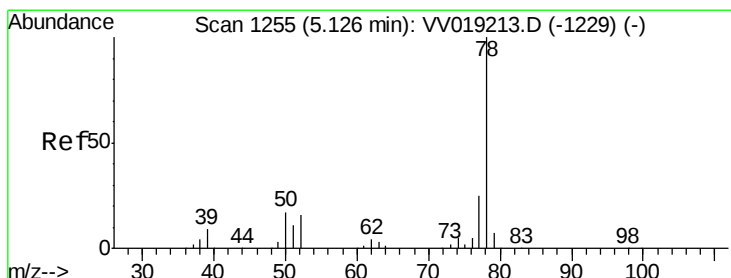
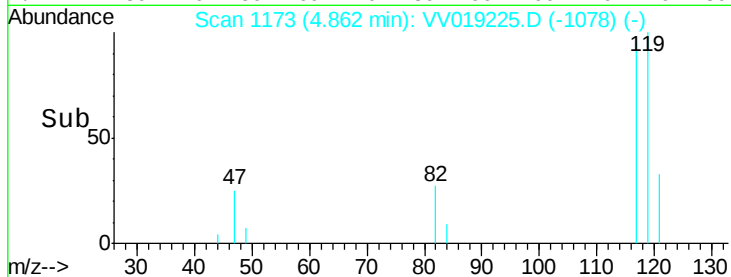
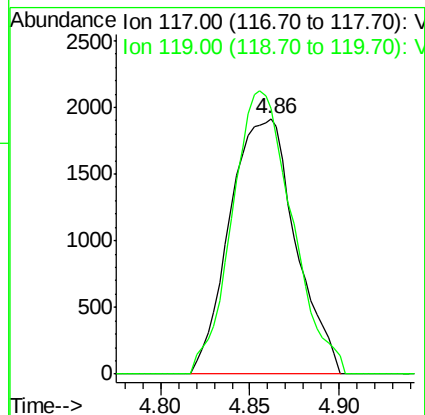
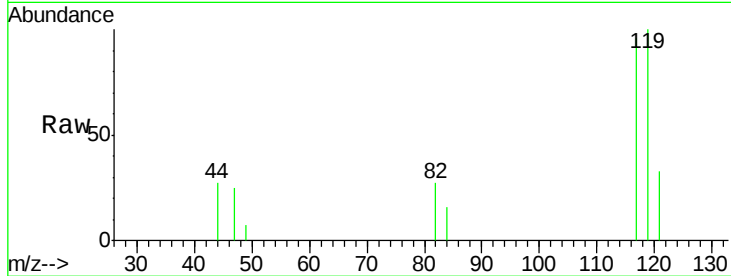
Carbon tetrachloride
Concen: 2.202 ug/L
RT: 4.86 min Scan# 1173
Delta R.T. 0.01 min
Lab File: VV019225.D
Acq: 03 Nov 2020 02:51

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-03

Tot Ion:117 Resp: 4926
Ion Ratio Lower Upper
117 100
119 101.3 77.8 116.6

Manual Integrations
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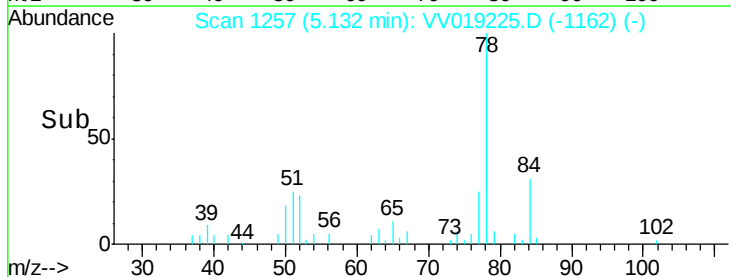
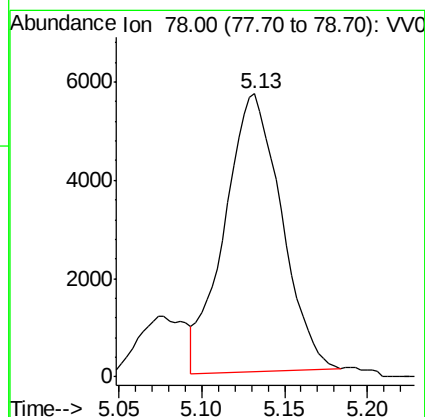
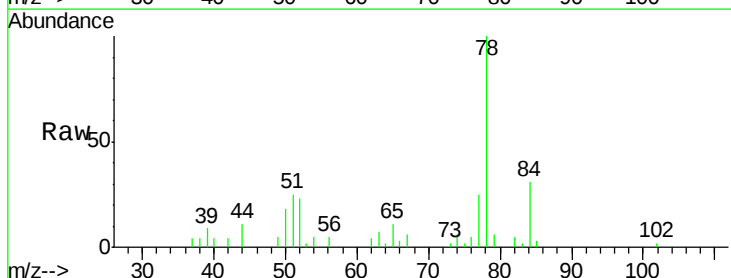
MMDadoda
11/4/2020 10:45:08 AM

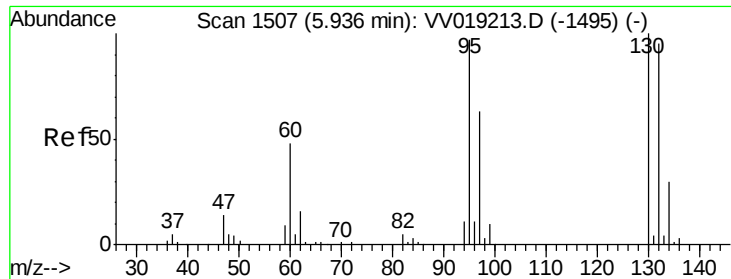


#33

Benzene
Concen: 2.426 ug/L
RT: 5.13 min Scan# 1257
Delta R.T. 0.01 min
Lab File: VV019225.D
Acq: 03 Nov 2020 02:51

Tgt Ion: 78 Resp: 13472





#34

Trichloroethene

Concen: 2.458 ug/L

RT: 5.95 min Scan# 1510

Delta R.T. 0.01 min

Lab File: VV019225.D

Acq: 03 Nov 2020 02:51

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-03

Tot Ion: 95 Resp: 3709

Ion Ratio Lower Upper

95 100

97 68.4 45.4 84.4

132 92.3 68.5 127.3

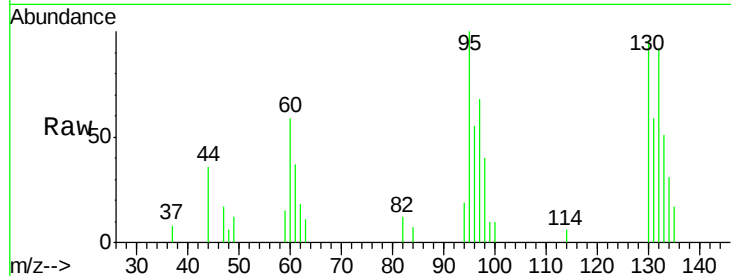
130 95.8 72.0 133.6

Manual Integrations

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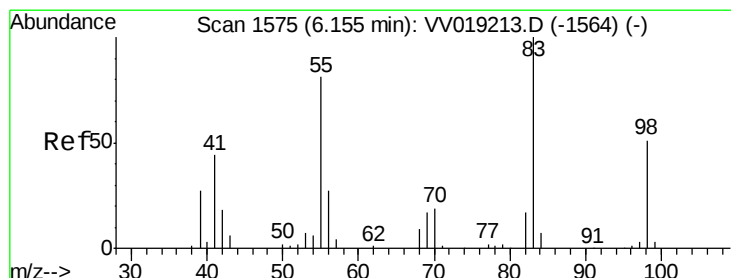
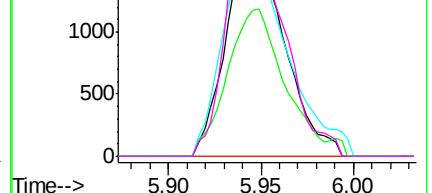
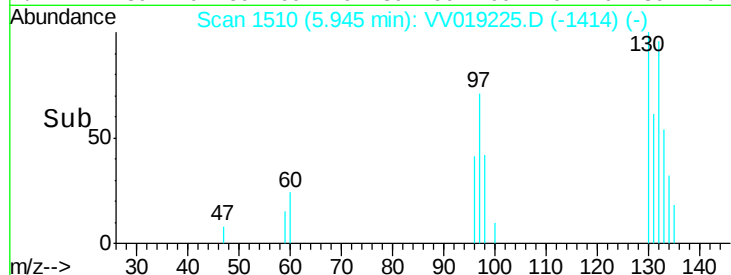
Abundance Ion 95.00 (94.70 to 95.70): VV019225.D (-1414) (-)

Ion 97.00 (96.70 to 97.70): VV019225.D (-1414) (-)

Ion 132.00 (131.70 to 132.70): VV019225.D (-1414) (-)

Ion 130.00 (129.70 to 130.70): VV019225.D (-1414) (-)

Time-->



#35

Methylcyclohexane

Concen: 2.250 ug/L

RT: 6.16 min Scan# 1576

Delta R.T. 0.00 min

Lab File: VV019225.D

Acq: 03 Nov 2020 02:51

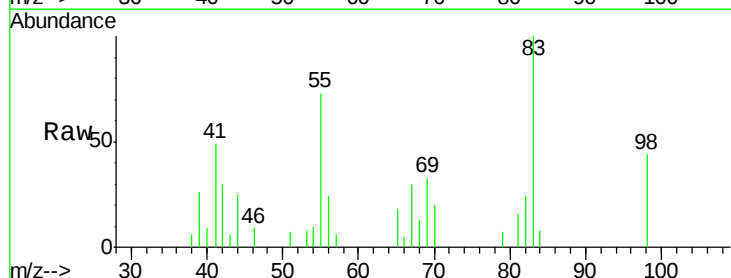
Tgt Ion: 83 Resp: 4109

Ion Ratio Lower Upper

83 100

55 73.8 62.8 94.2

98 51.8 38.6 58.0

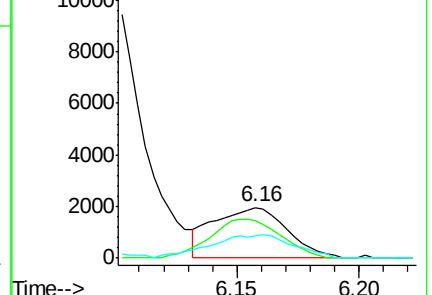
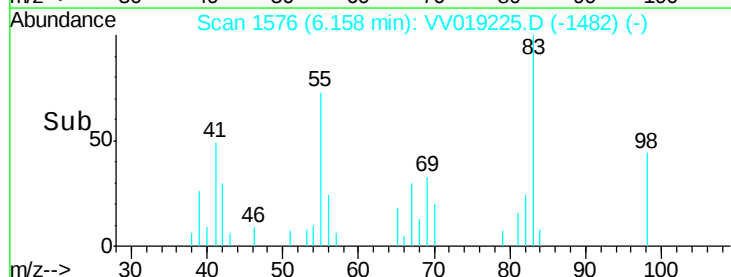


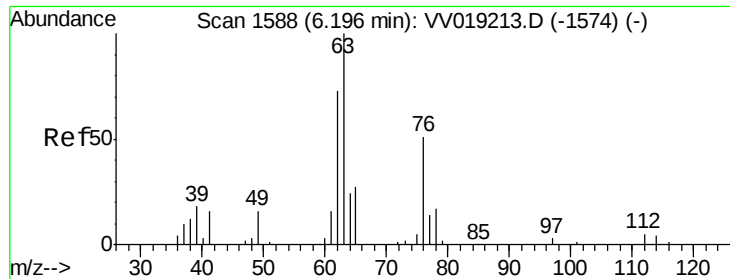
Abundance Ion 83.00 (82.70 to 83.70): VV019225.D (-1482) (-)

Ion 55.00 (54.70 to 55.70): VV019225.D (-1482) (-)

Ion 98.00 (97.70 to 98.70): VV019225.D (-1482) (-)

Time-->





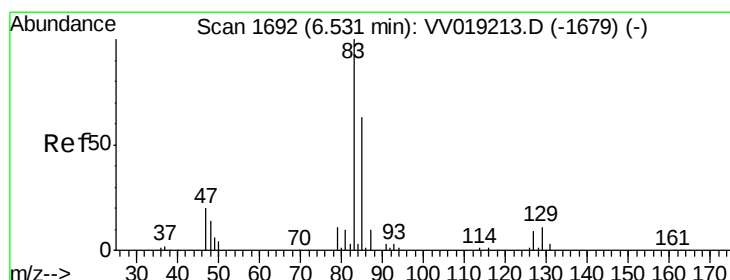
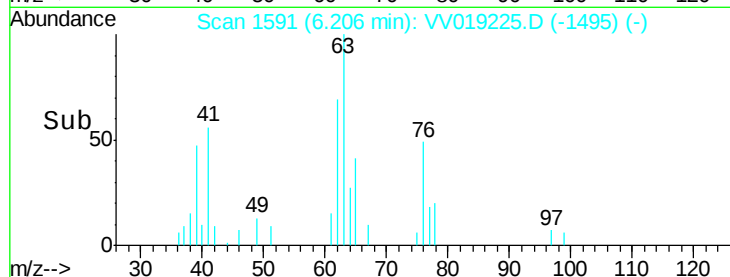
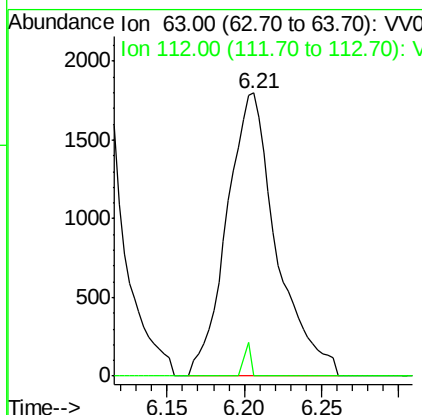
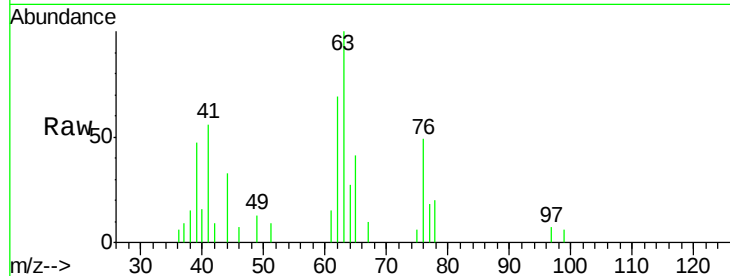
#37
 1,2-Dichloropropane
 Concen: 2.714 ug/L
 RT: 6.21 min Scan# 1591
 Delta R.T. 0.01 min
 Lab File: VV019225.D
 Acq: 03 Nov 2020 02:51

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-03

Tot Ion: 63 Resp: 4021
 Ion Ratio Lower Upper
 63 100
 112 1.5 4.2 6.2#

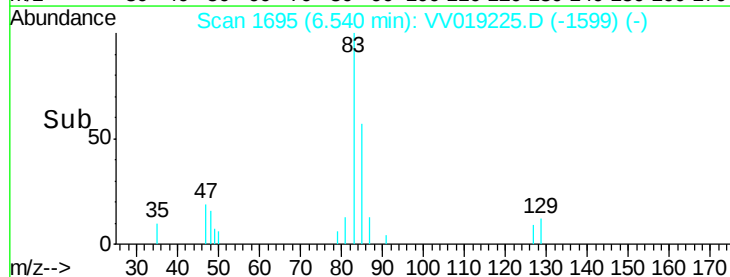
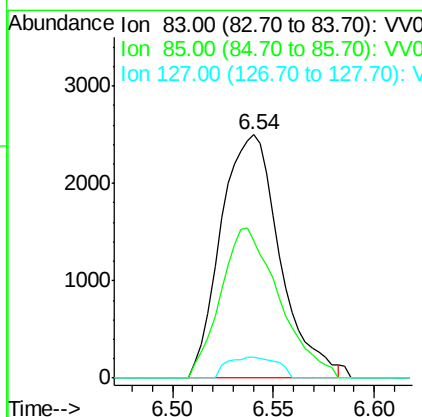
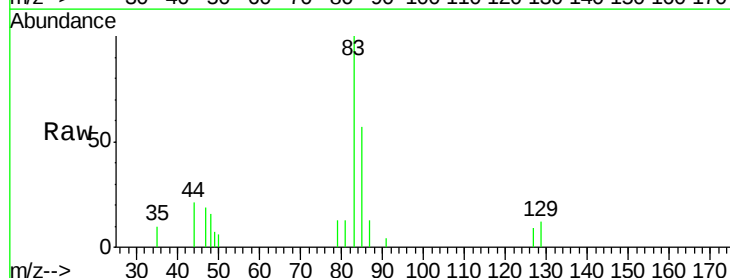
Manual Integrations
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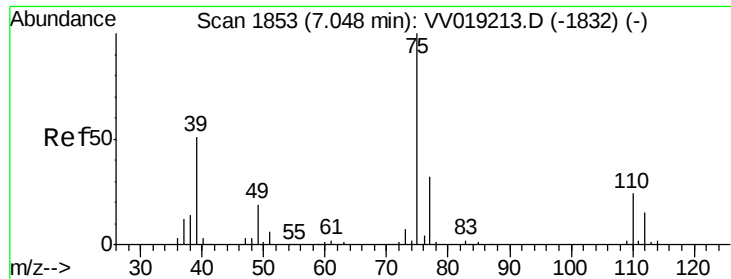
MMDadoda
 11/4/2020 10:45:08 AM



#38
 Bromodichloromethane
 Concen: 2.391 ug/L
 RT: 6.54 min Scan# 1695
 Delta R.T. 0.01 min
 Lab File: VV019225.D
 Acq: 03 Nov 2020 02:51

Tgt Ion: 83 Resp: 5099
 Ion Ratio Lower Upper
 83 100
 85 56.6 44.0 81.8
 127 8.7 7.3 10.9





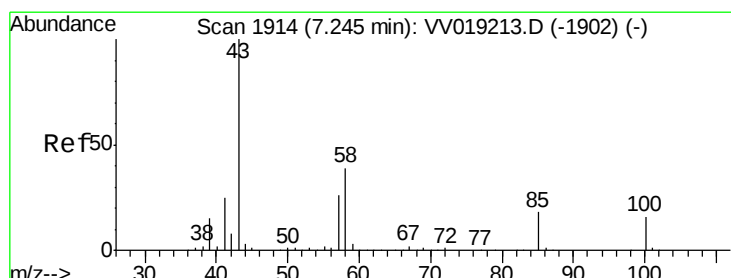
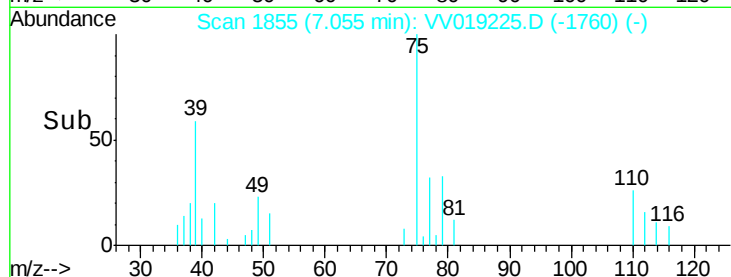
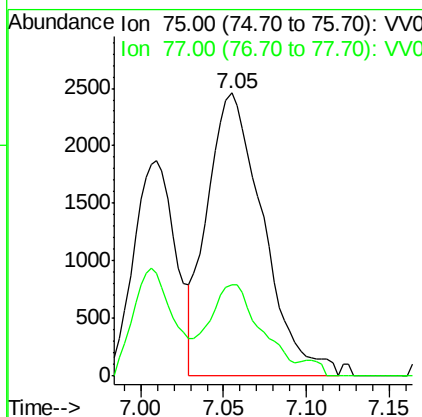
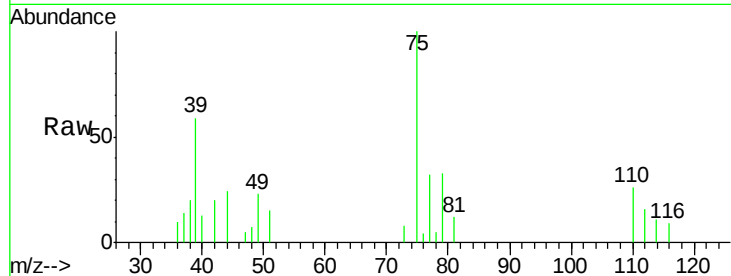
#39
 cis-1,3-Dichloropropene
 Concen: 2.432 ug/L
 RT: 7.05 min Scan# 1855
 Delta R.T. 0.01 min
 Lab File: VV019225.D
 Acq: 03 Nov 2020 02:51

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-03

Tot Ion: 75 Resp: 5766
 Ion Ratio Lower Upper
 75 100
 77 32.1 22.2 41.2

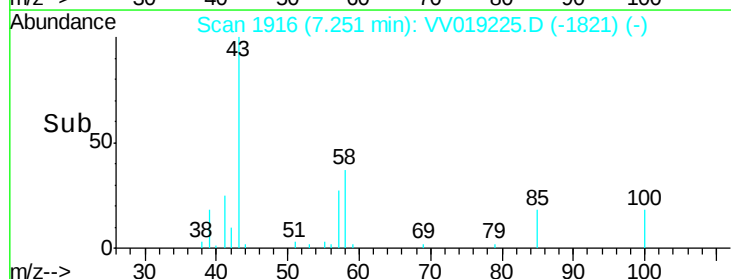
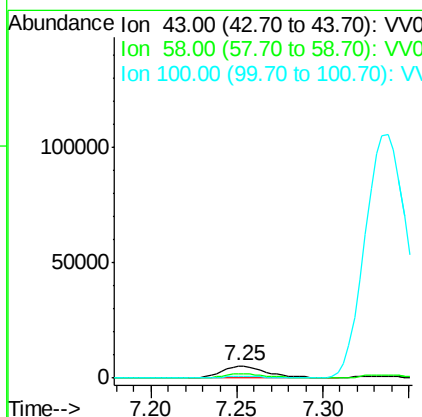
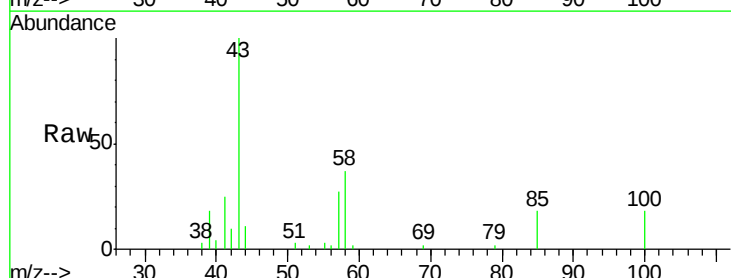
Manual Integrations
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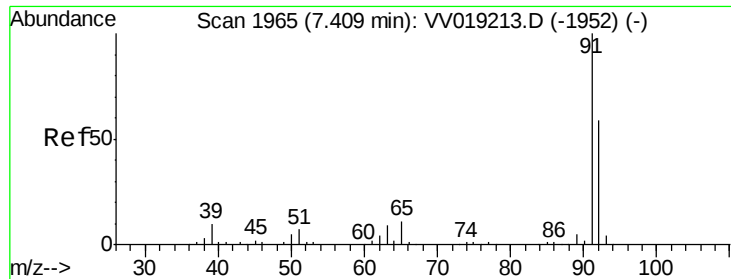
MMDadoda
 11/4/2020 10:45:08 AM



#40
 4-Methyl-2-pentanone
 Concen: 4.869 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. 0.01 min
 Lab File: VV019225.D
 Acq: 03 Nov 2020 02:51

Tgt Ion: 43 Resp: 9693
 Ion Ratio Lower Upper
 43 100
 58 36.1 30.5 45.7
 100 14.4 12.7 19.1





#42

Toluene

Concen: 2.793 ug/L

RT: 7.41 min Scan# 1967

Delta R.T. 0.01 min

Lab File: VV019225.D

Acq: 03 Nov 2020 02:51

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-03

Tot Ion: 91 Resp: 16764

Ion Ratio Lower Upper

91 100

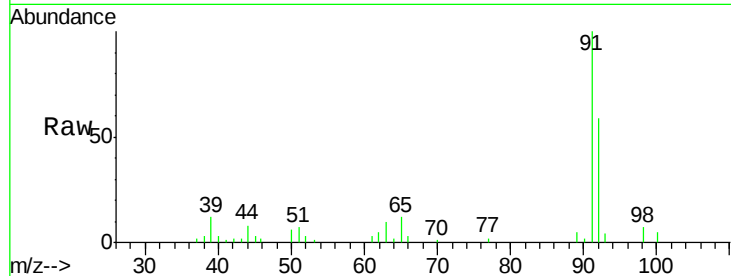
92 59.3 40.6 75.4

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0

7.41

10000

8000

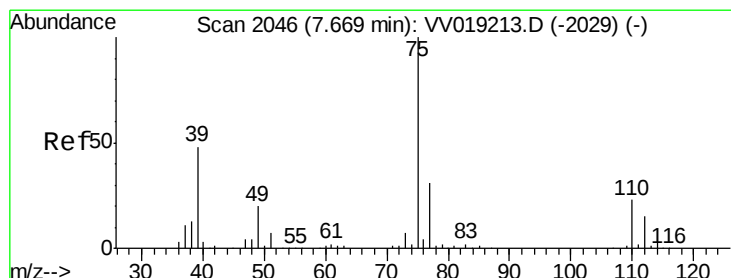
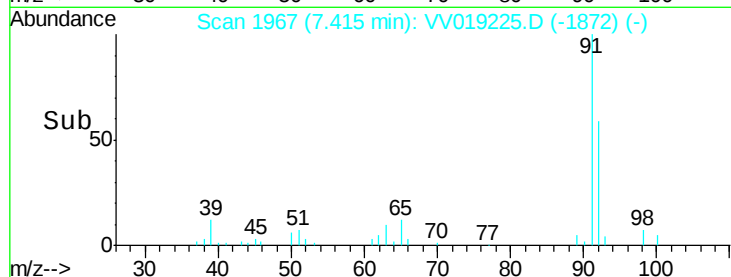
6000

4000

2000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 2.352 ug/L

RT: 7.68 min Scan# 2049

Delta R.T. 0.01 min

Lab File: VV019225.D

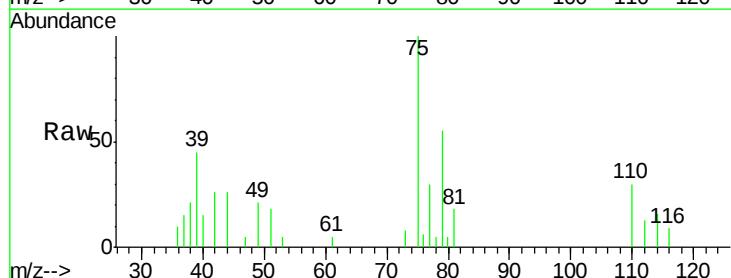
Acq: 03 Nov 2020 02:51

Tgt Ion: 75 Resp: 5715

Ion Ratio Lower Upper

75 100

77 29.6 21.6 40.2



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

7.68

3000

2500

2000

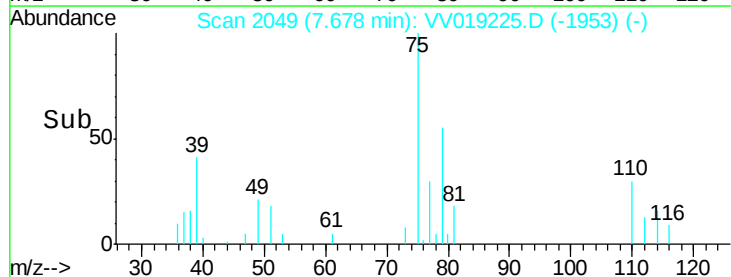
1500

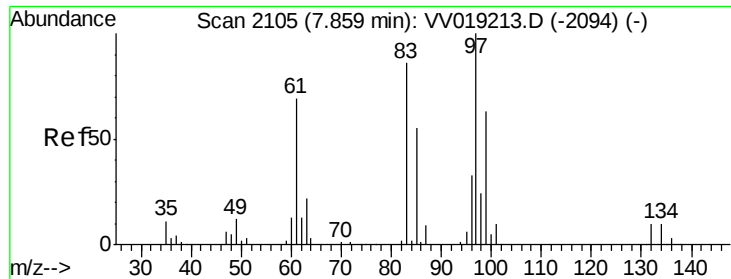
1000

500

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 2.573 ug/L

RT: 7.86 min Scan# 2107

Delta R.T. 0.01 min

Lab File: VV019225.D

Acq: 03 Nov 2020 02:51

Instrument :

MSVOA_V

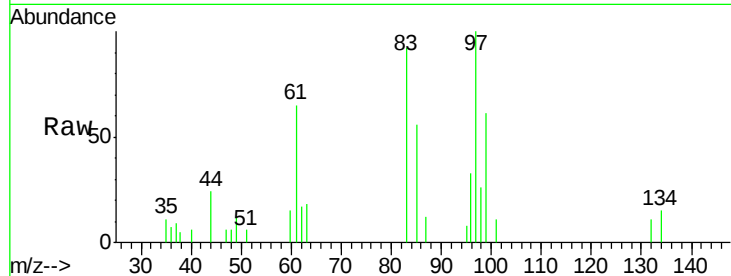
ClientSampleId :

MDL-WATER-03

Tot Ion:	97	Resp:	3769
Ion	Ratio	Lower	Upper
97	100		
99	60.6	45.1	83.9
83	92.1	57.6	107.0
85	55.6	37.8	70.2

Manual Integrations
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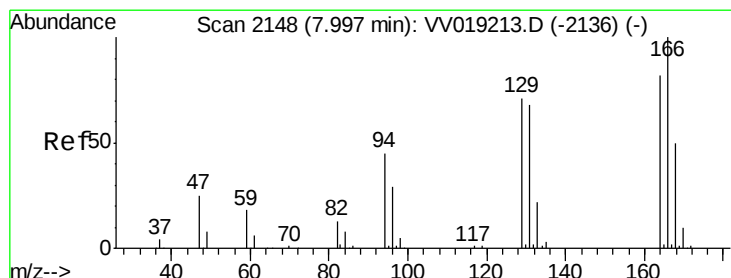
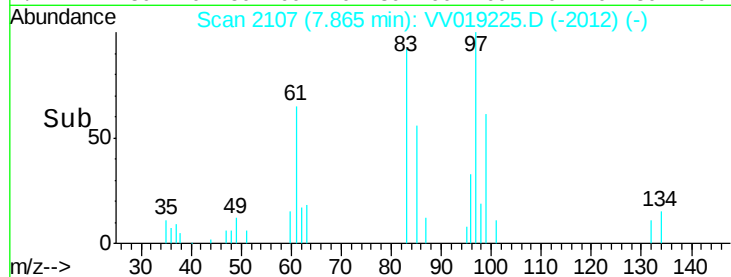
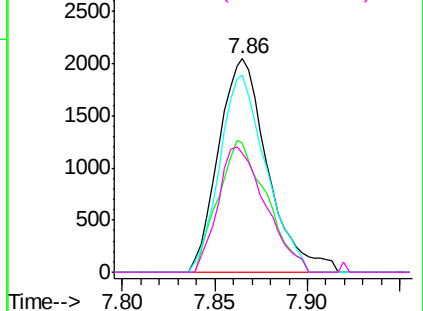
Abundance

Ion 97.00 (96.70 to 97.70): VV019225.D (-2094) (-)

Ion 99.00 (98.70 to 99.70): VV019225.D (-2094) (-)

Ion 83.00 (82.70 to 83.70): VV019225.D (-2094) (-)

Ion 85.00 (84.70 to 85.70): VV019225.D (-2094) (-)



#46

Tetrachloroethene

Concen: 2.273 ug/L

RT: 8.00 min Scan# 2149

Delta R.T. 0.00 min

Lab File: VV019225.D

Acq: 03 Nov 2020 02:51

Tgt Ion:	164	Resp:	2798
Ion	Ratio	Lower	Upper
164	100		
129	87.3	62.6	116.3
131	84.9	59.0	109.6
166	125.6	88.0	163.4

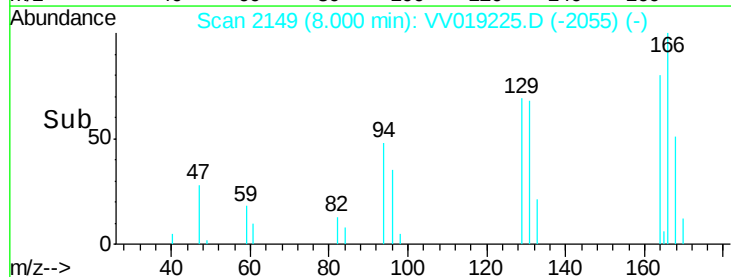
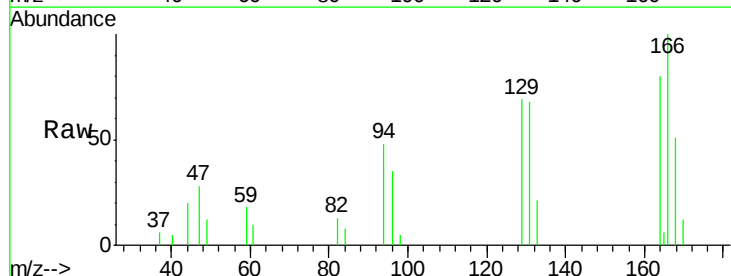
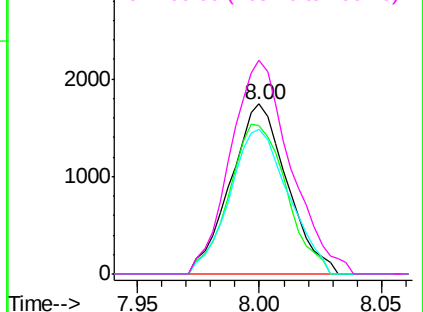
Abundance

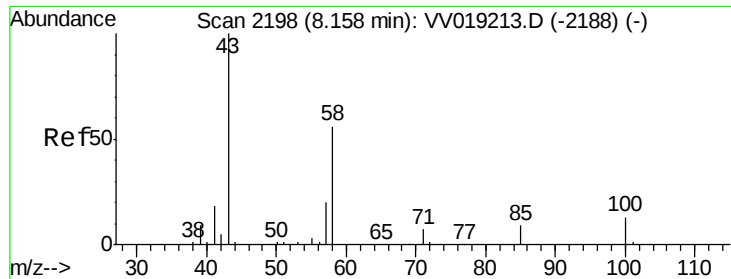
Ion 164.00 (163.70 to 164.70): VV019225.D (-2055) (-)

Ion 129.00 (128.70 to 129.70): VV019225.D (-2055) (-)

Ion 131.00 (130.70 to 131.70): VV019225.D (-2055) (-)

Ion 166.00 (165.70 to 166.70): VV019225.D (-2055) (-)





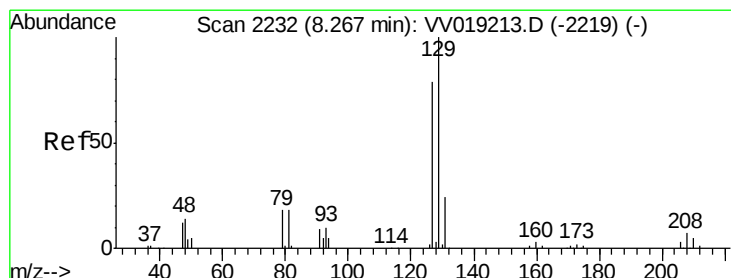
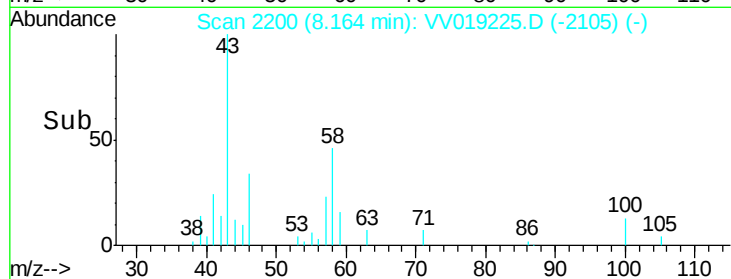
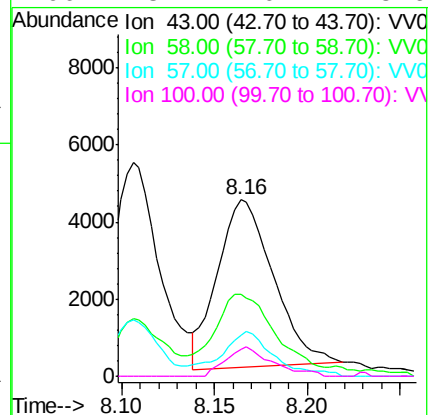
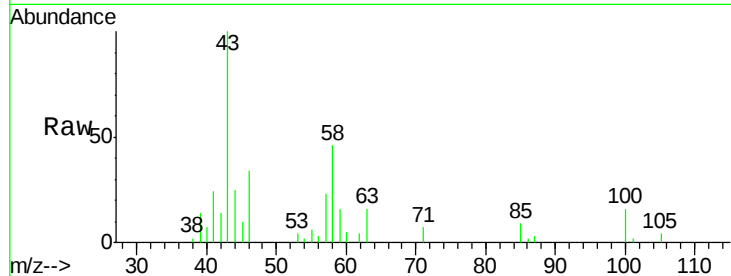
#48
2-Hexanone
Concen: 6.093 ug/L
RT: 8.16 min Scan# 2200
Delta R.T. 0.01 min
Lab File: VV019225.D
Acq: 03 Nov 2020 02:51

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-03

Tot Ion:	43	Resp:	9170
Ion	Ratio	Lower	Upper
43	100		
58	46.1	42.6	63.8
57	22.4	15.8	23.8
100	13.1	10.4	15.6

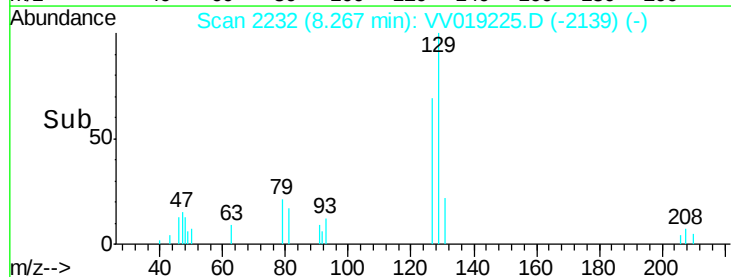
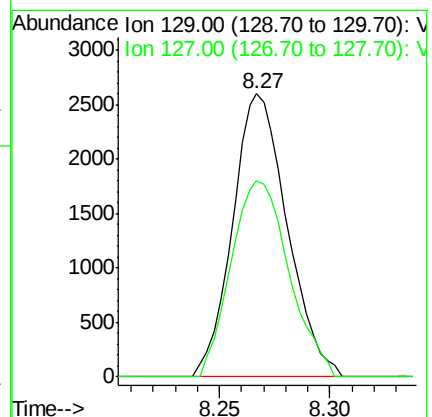
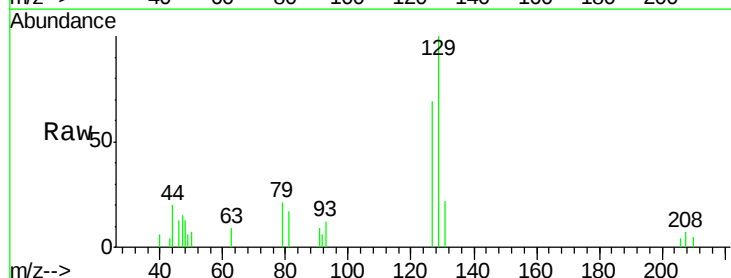
Manual Integrations
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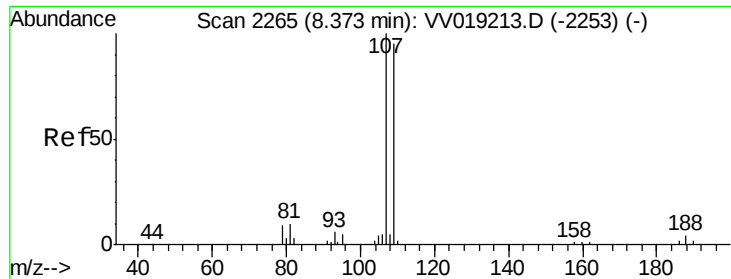
MMDadoda
11/4/2020 10:45:08 AM



#49
Dibromochloromethane
Concen: 2.547 ug/L
RT: 8.27 min Scan# 2232
Delta R.T. -0.00 min
Lab File: VV019225.D
Acq: 03 Nov 2020 02:51

Tgt Ion:	129	Resp:	4449
Ion	Ratio	Lower	Upper
129	100		
127	69.4	54.4	101.0





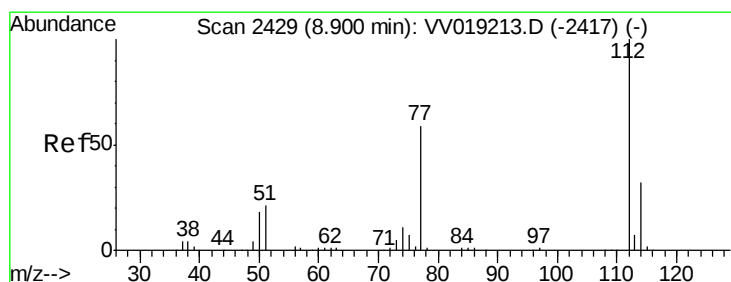
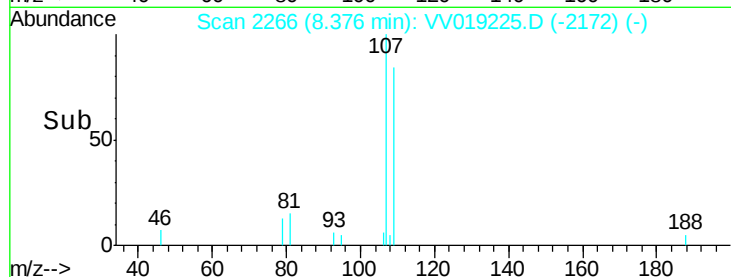
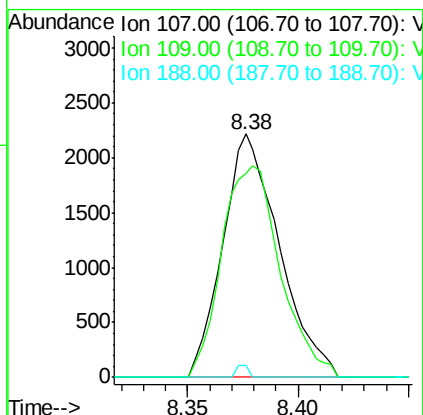
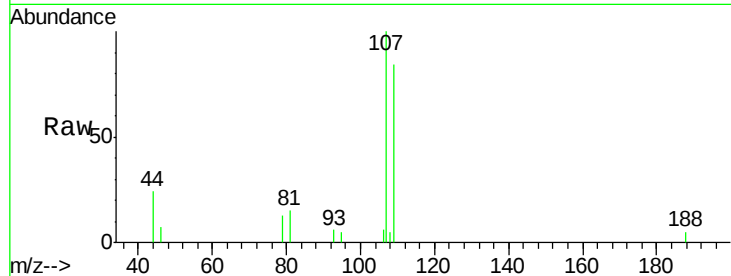
#50
 1,2-Dibromoethane
 Concen: 2.595 ug/L
 RT: 8.38 min Scan# 2266
 Delta R.T. 0.00 min
 Lab File: VV019225.D
 Acq: 03 Nov 2020 02:51

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-03

Tot Ion	Ratio	Lower	Upper
107	100		
109	83.6	64.8	120.4
188	4.9	3.8	5.8

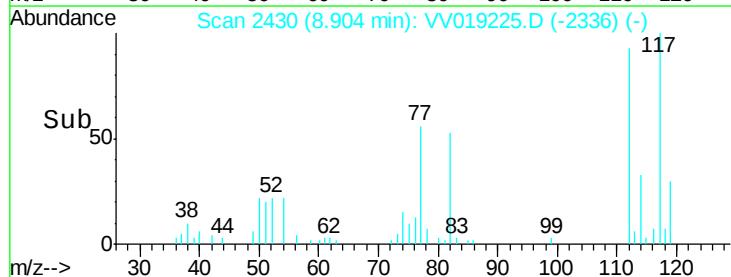
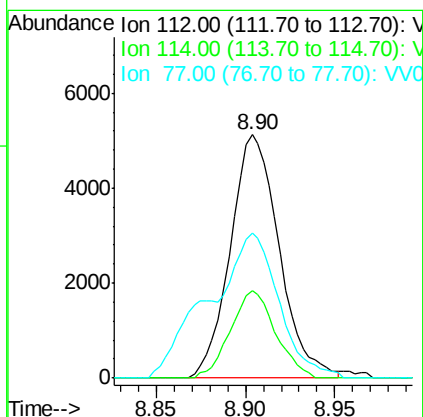
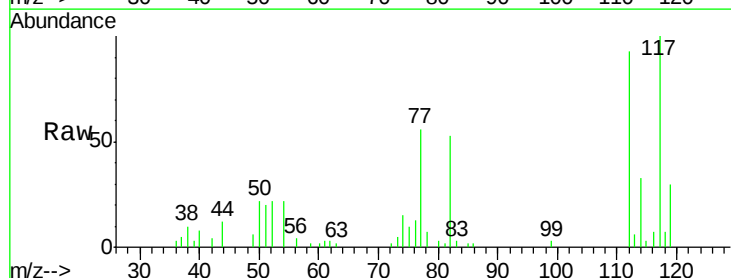
Manual Integrations
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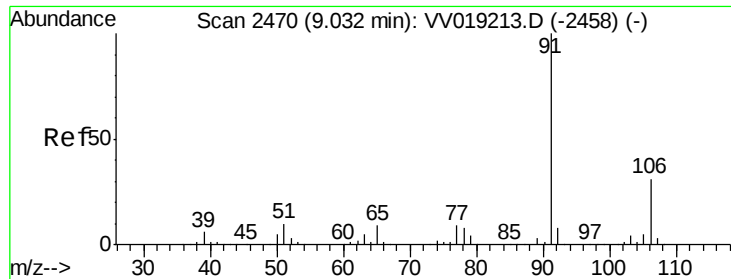
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 11/4/2020 10:45:08 AM



#51
 Chlorobenzene
 Concen: 2.443 ug/L
 RT: 8.90 min Scan# 2430
 Delta R.T. 0.00 min
 Lab File: VV019225.D
 Acq: 03 Nov 2020 02:51

Tgt Ion	Ratio	Lower	Upper
112	100		
114	35.9	22.7	42.1
77	59.8	47.3	70.9





#52

Ethylbenzene

Concen: 2.162 ug/L

RT: 9.04 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VV019225.D

Acq: 03 Nov 2020 02:51

Tot Ion: 91 Resp: 14319

Ion Ratio Lower Upper

91 100

106 32.6 21.6 40.0

Instrument :

MSVOA_V

ClientSampleId :

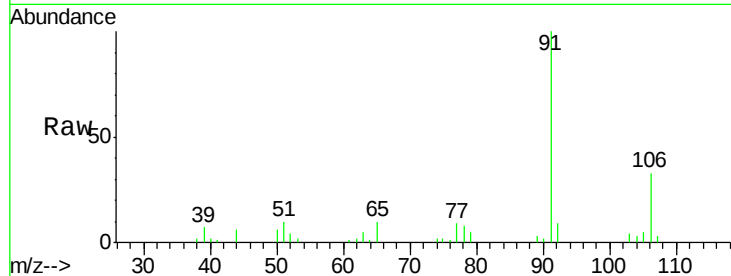
MDL-WATER-03

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Abundance Ion 91.00 (90.70 to 91.70): VV019213.D (-2458) (-)

Ion 106.00 (105.70 to 106.70): VV019213.D (-2458) (-)

9.04

10000

8000

6000

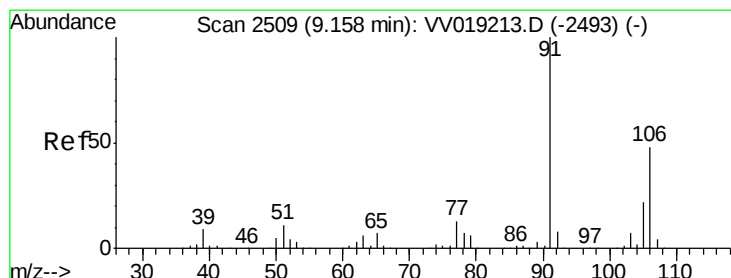
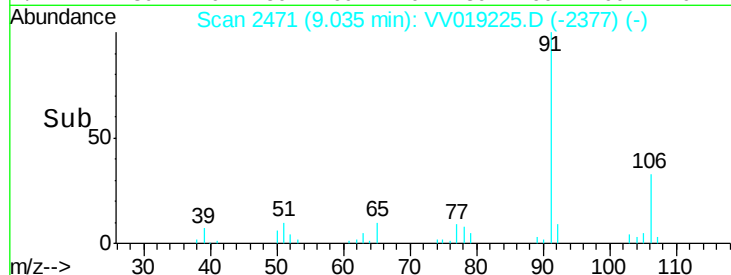
4000

2000

0

Time-->

9.00 9.05 9.10



#53

m,p-Xylene

Concen: 2.198 ug/L

RT: 9.16 min Scan# 2510

Delta R.T. 0.00 min

Lab File: VV019225.D

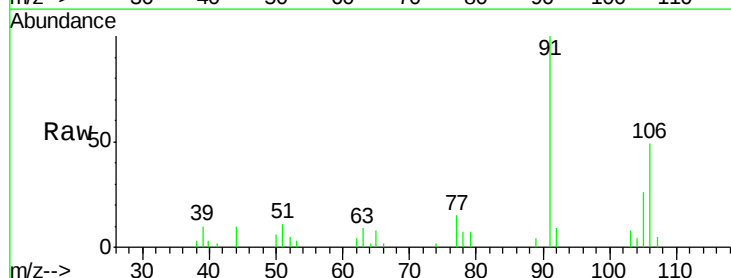
Acq: 03 Nov 2020 02:51

Tgt Ion: 106 Resp: 5448

Ion Ratio Lower Upper

106 100

91 203.7 147.2 273.4



Abundance Ion 106.00 (105.70 to 106.70): VV019213.D (-2493) (-)

Ion 91.00 (90.70 to 91.70): VV019213.D (-2493) (-)

9.16

6000

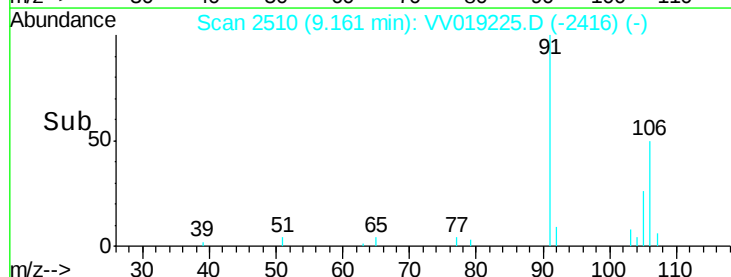
4000

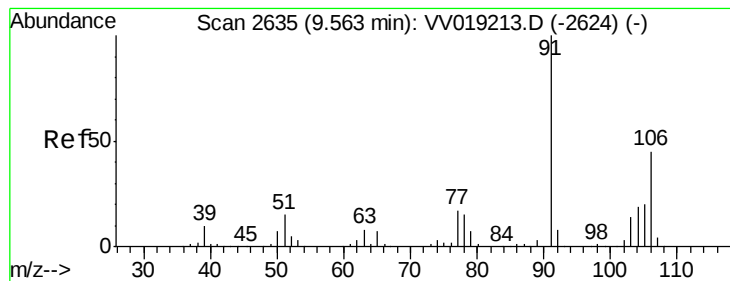
2000

0

Time-->

9.15 9.20





#54

o-Xylene

Concen: 2.198 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. 0.00 min

Lab File: VV019225.D

Acq: 03 Nov 2020 02:51

Tot Ion:106 Resp: 5371

Ion Ratio Lower Upper

106 100

91 199.9 151.6 281.6

Instrument :

MSVOA_V

ClientSampleId :

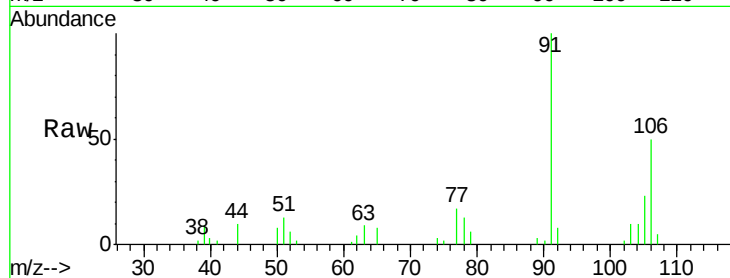
MDL-WATER-03

Manual Integrations

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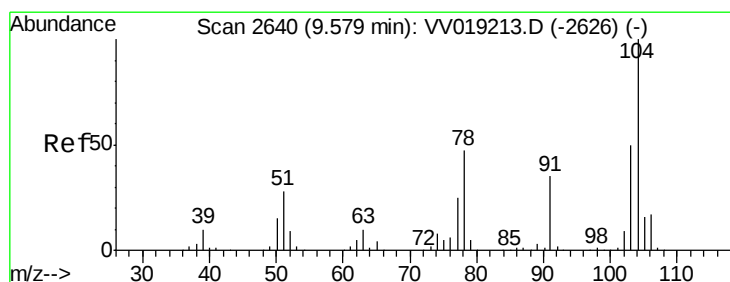
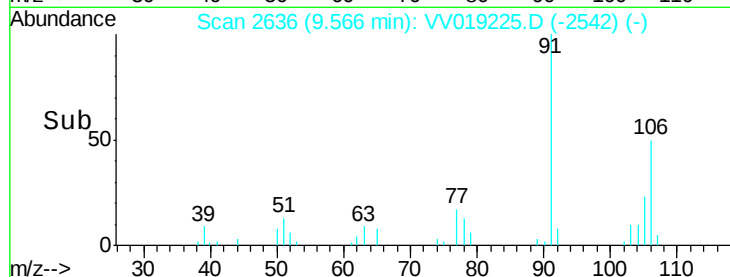
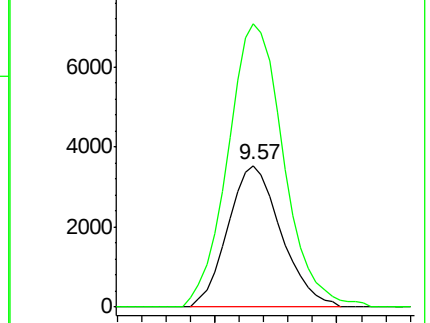
MMDadoda

11/4/2020 10:45:08 AM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 1.965 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.01 min

Lab File: VV019225.D

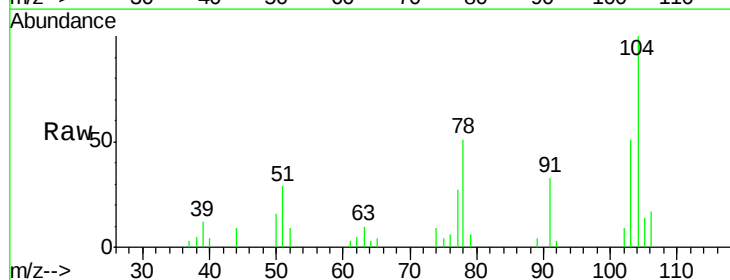
Acq: 03 Nov 2020 02:51

Tgt Ion:104 Resp: 8546

Ion Ratio Lower Upper

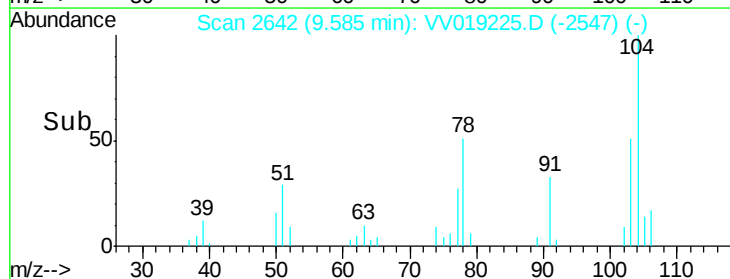
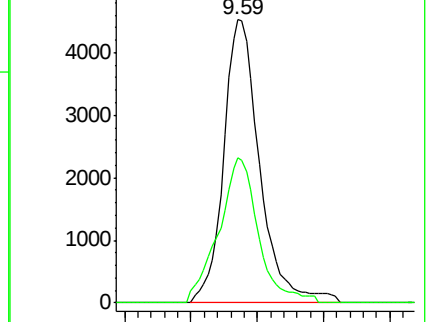
104 100

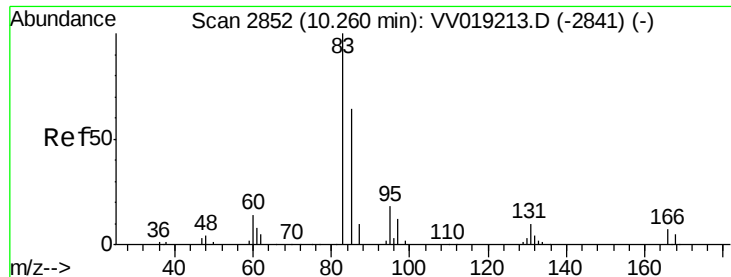
78 51.3 32.6 60.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





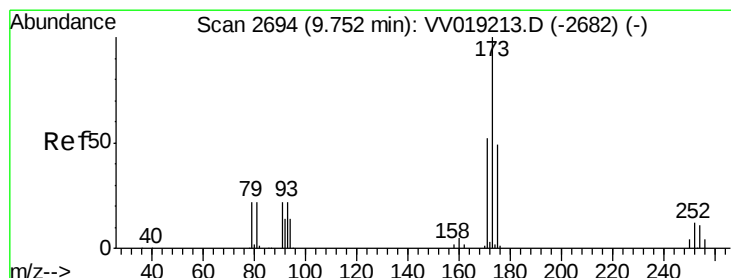
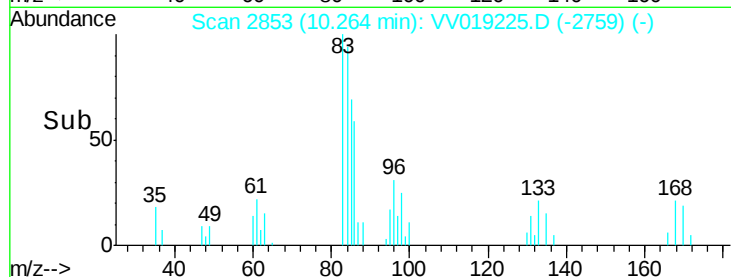
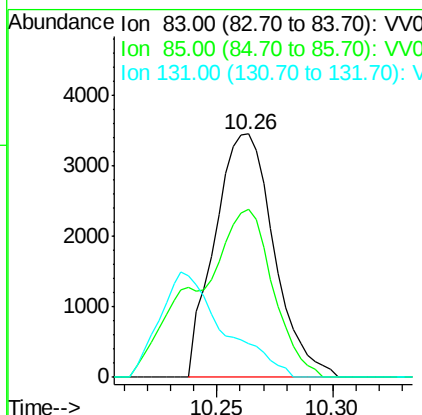
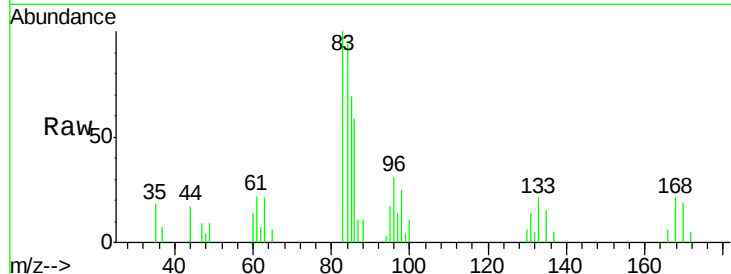
#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.778 ug/L
 RT: 10.26 min Scan# 2853
 Delta R.T. 0.00 min
 Lab File: VV019225.D
 Acq: 03 Nov 2020 02:51

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-03

Tot Ion	Ratio	Lower	Upper
83	100		
85	68.8	45.0	83.6
131	14.1	8.9	13.3#

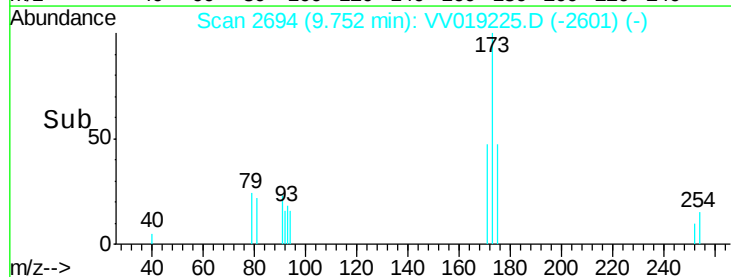
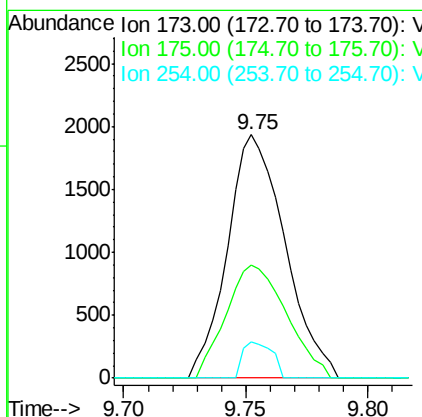
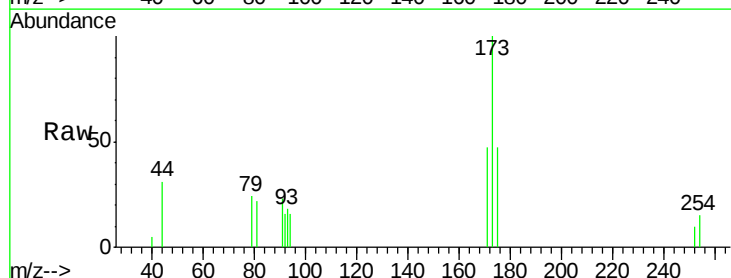
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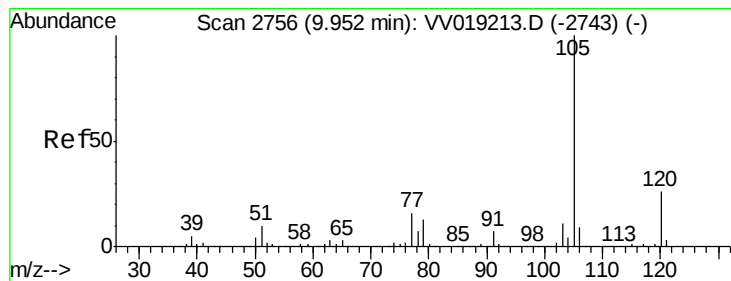
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#59
 Bromoform
 Concen: 2.559 ug/L
 RT: 9.75 min Scan# 2694
 Delta R.T. -0.00 min
 Lab File: VV019225.D
 Acq: 03 Nov 2020 02:51

Tgt Ion	Ratio	Lower	Upper
173	100		
175	48.6	38.4	57.6
254	7.5	9.0	13.6#





#60

Isopropylbenzene

Concen: 2.223 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VV019225.D

Acq: 03 Nov 2020 02:51

Instrument :

MSVOA_V

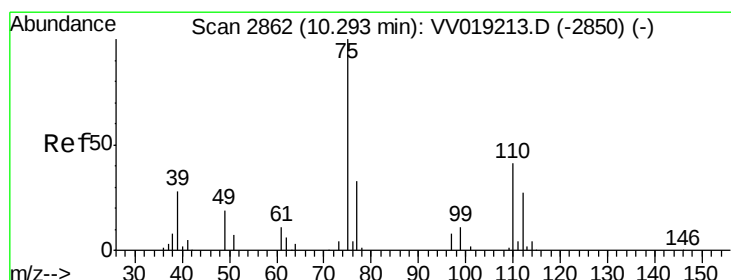
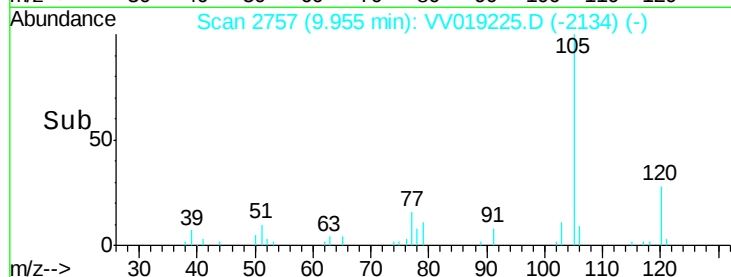
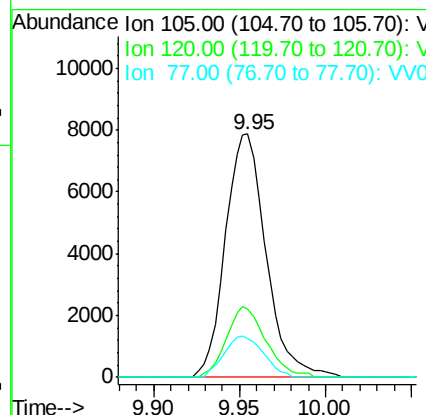
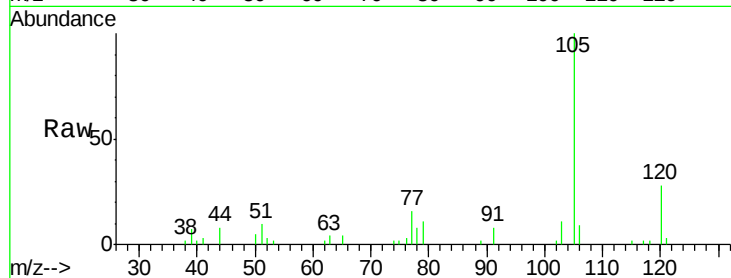
ClientSampleID :

MDL-WATER-03

Tot Ion:	105	Resp:	13019
Ion Ratio	Lower	Upper	
105	100		
120	28.0	21.0	31.4
77	16.4	13.0	19.6

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#61

1,2,3-Trichloropropane

Concen: 2.944 ug/L

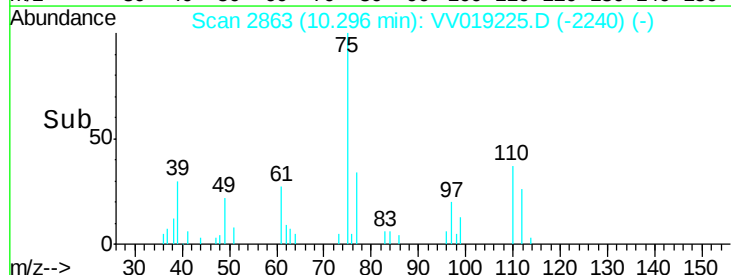
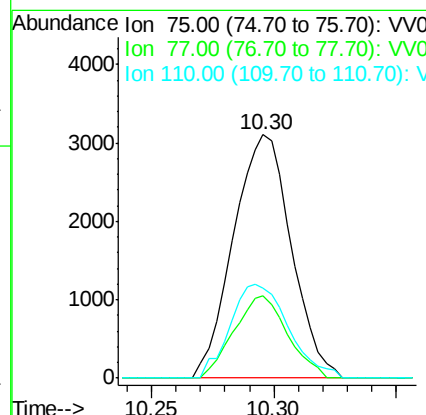
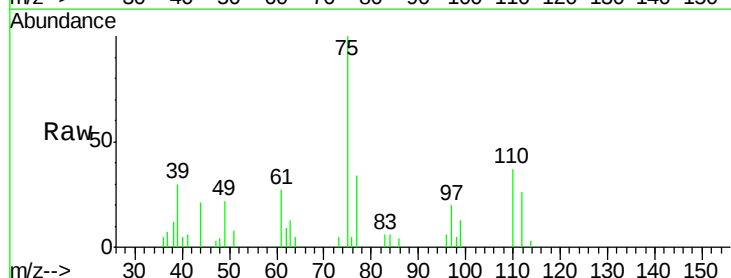
RT: 10.30 min Scan# 2863

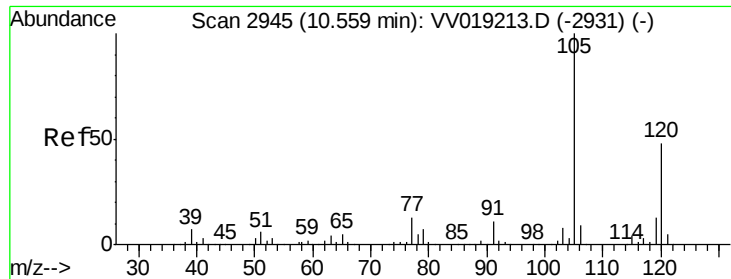
Delta R.T. 0.00 min

Lab File: VV019225.D

Acq: 03 Nov 2020 02:51

Tgt Ion:	75	Resp:	5110
Ion Ratio	Lower	Upper	
75	100		
77	31.3	24.8	37.2
110	39.0	33.4	50.2





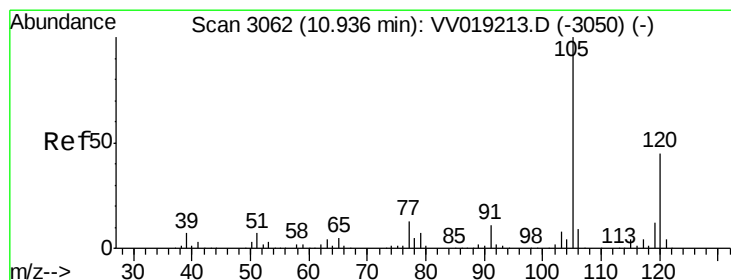
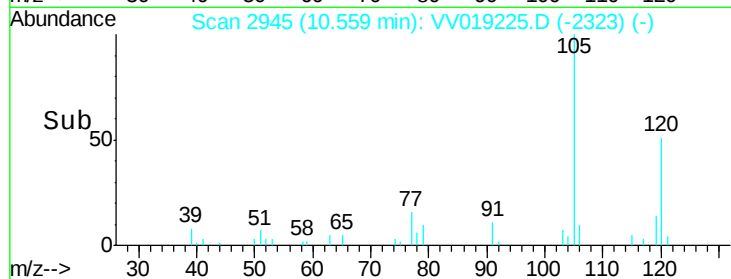
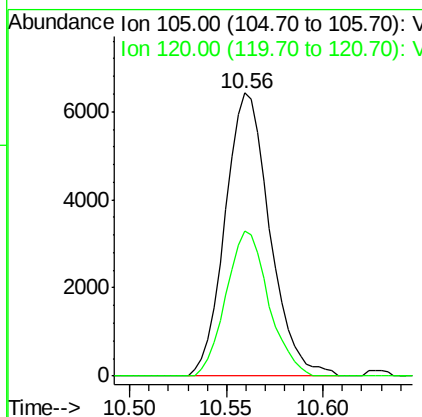
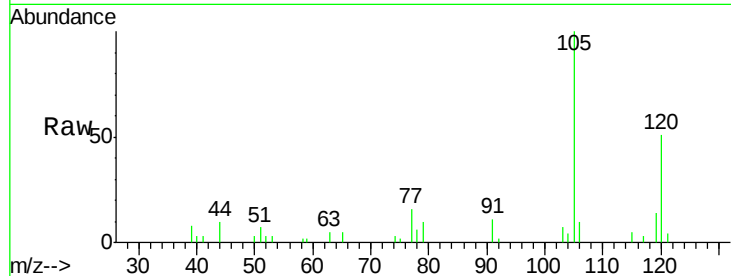
#62
 1,3,5-Trimethylbenzene
 Concen: 2.115 ug/L
 RT: 10.56 min Scan# 2945
 Delta R.T. -0.00 min
 Lab File: VV019225.D
 Acq: 03 Nov 2020 02:51

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-03

Tot Ion:105 Resp: 10317
 Ion Ratio Lower Upper
 105 100
 120 48.6 38.3 57.5

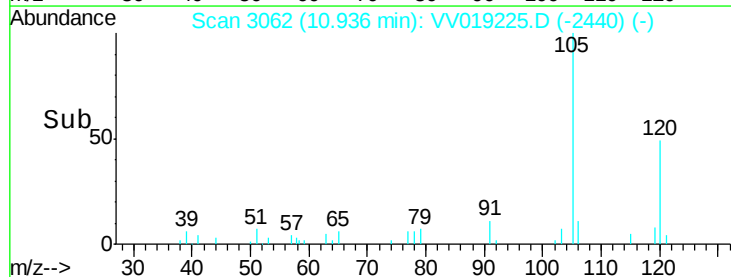
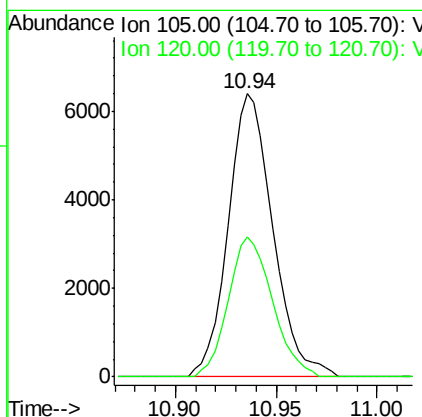
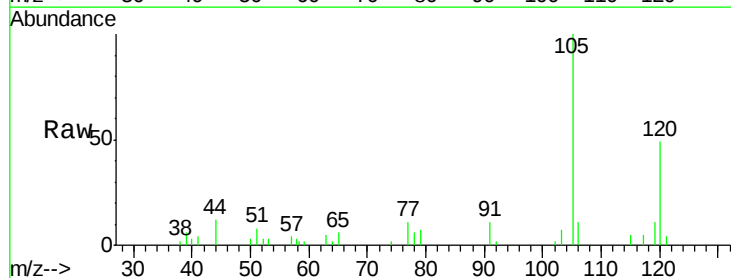
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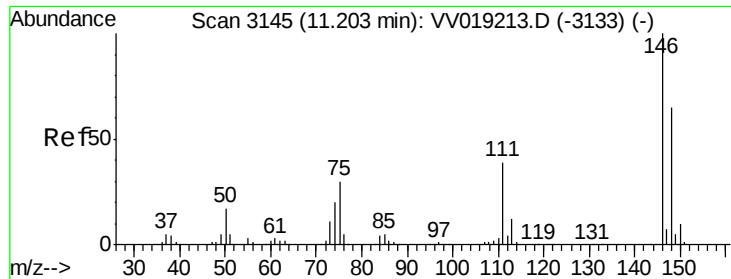
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#63
 1,2,4-Trimethylbenzene
 Concen: 2.075 ug/L
 RT: 10.94 min Scan# 3062
 Delta R.T. -0.00 min
 Lab File: VV019225.D
 Acq: 03 Nov 2020 02:51

Tgt Ion:105 Resp: 9903
 Ion Ratio Lower Upper
 105 100
 120 49.0 35.7 53.5





#64

1,3-Dichlorobenzene

Concen: 2.604 ug/L

RT: 11.21 min Scan# 3146

Delta R.T. 0.00 min

Lab File: VV019225.D

Acq: 03 Nov 2020 02:51

Instrument :

MSVOA_V

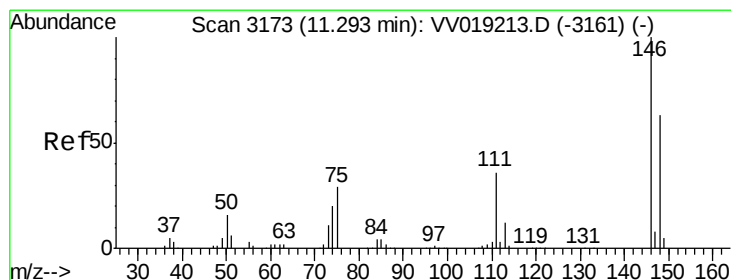
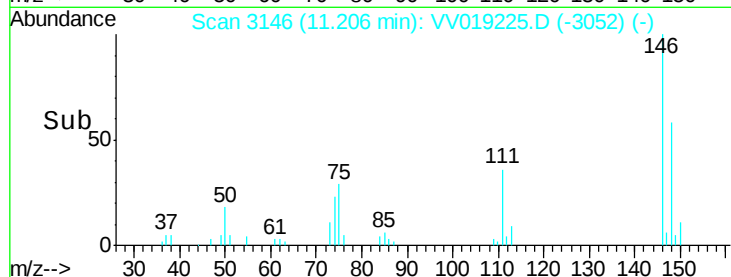
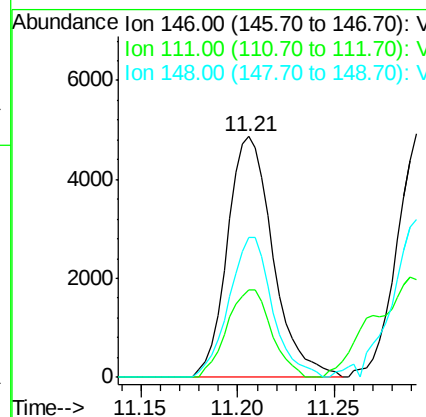
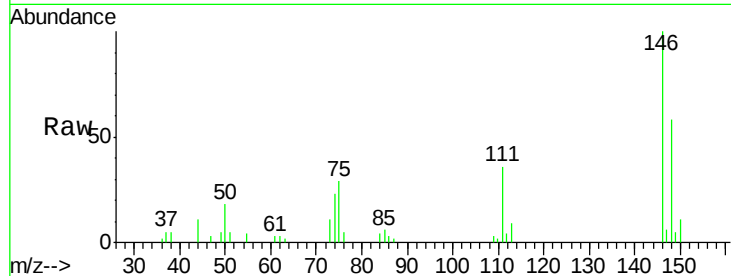
ClientSampleId :

MDL-WATER-03

Tot Ion:	146	Resp:	7976
Ion Ratio	Lower	Upper	
146	100		
111	36.2	27.3	50.7
148	58.3	45.2	84.0

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#65

1,4-Dichlorobenzene

Concen: 2.626 ug/L

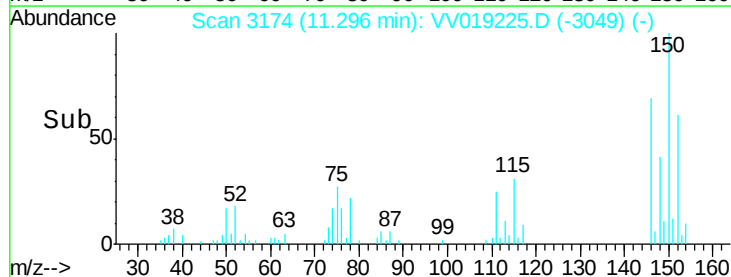
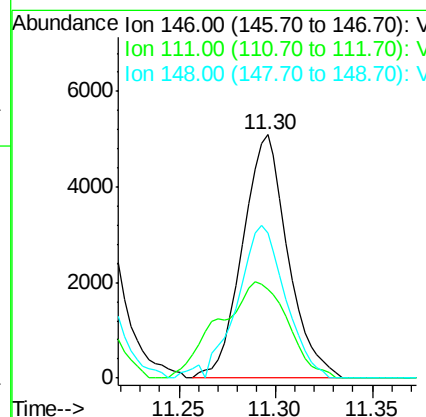
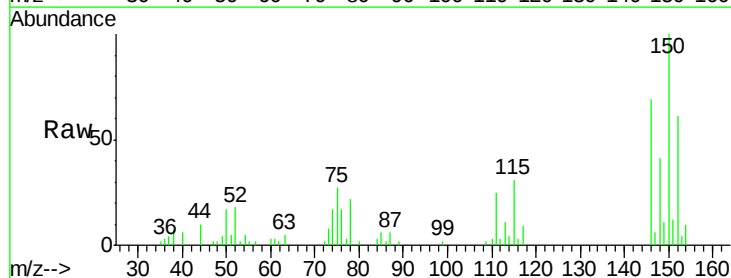
RT: 11.30 min Scan# 3174

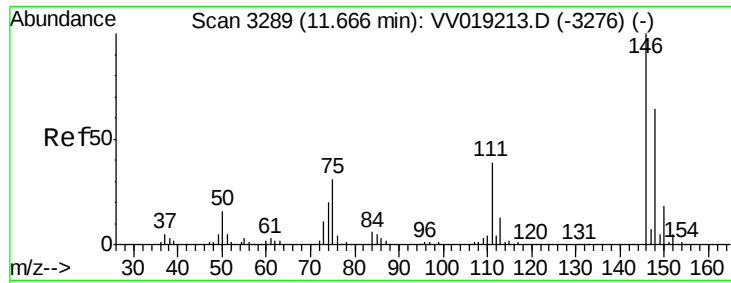
Delta R.T. 0.00 min

Lab File: VV019225.D

Acq: 03 Nov 2020 02:51

Tgt Ion:	146	Resp:	8322
Ion Ratio	Lower	Upper	
146	100		
111	36.6	25.9	48.1
148	59.7	44.9	83.5





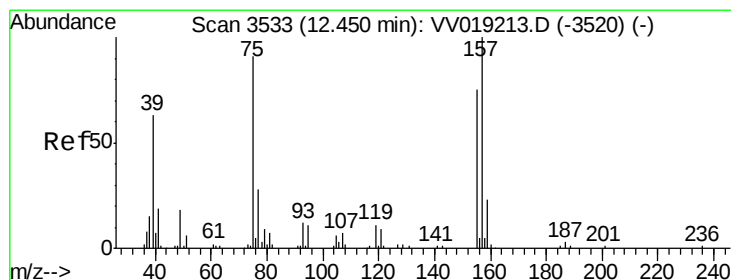
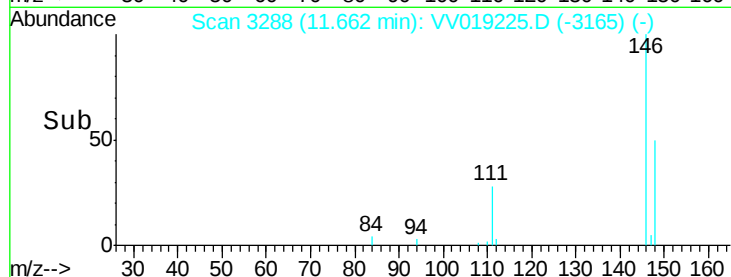
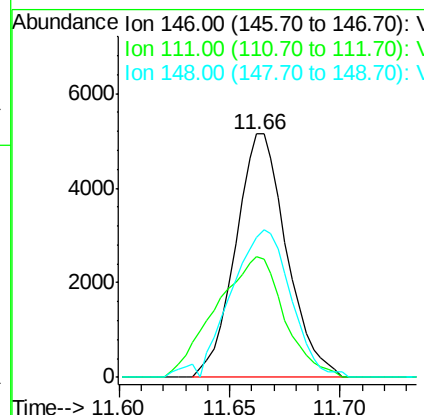
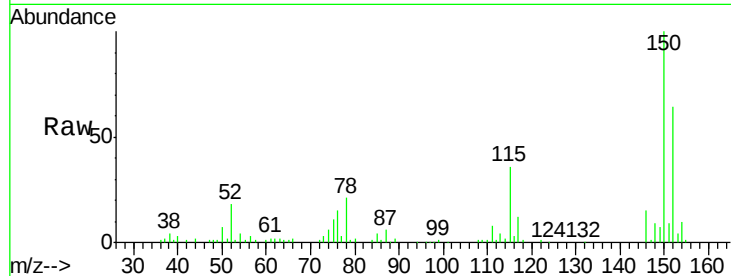
#67
 1,2-Dichlorobenzene
 Concen: 2.639 ug/L
 RT: 11.66 min Scan# 3288
 Delta R.T. -0.00 min
 Lab File: VV019225.D
 Acq: 03 Nov 2020 02:51

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-03

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.8	32.6	48.8#
148	57.6	50.1	75.1

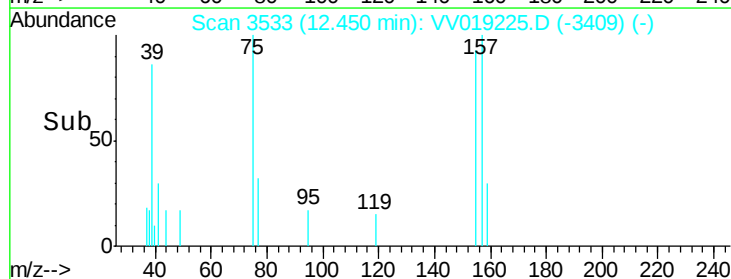
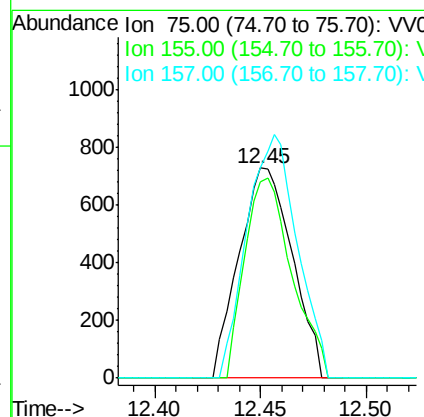
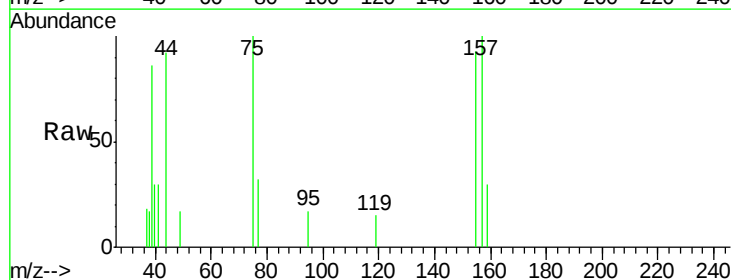
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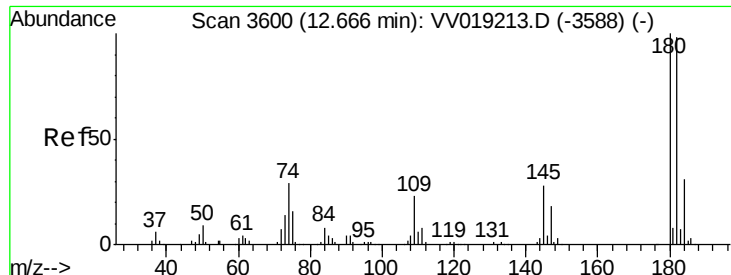
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#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.516 ug/L
 RT: 12.45 min Scan# 3533
 Delta R.T. -0.00 min
 Lab File: VV019225.D
 Acq: 03 Nov 2020 02:51

Tgt Ion	Ratio	Lower	Upper
75	100		
155	93.2	65.8	98.6
157	100.3	86.3	129.5





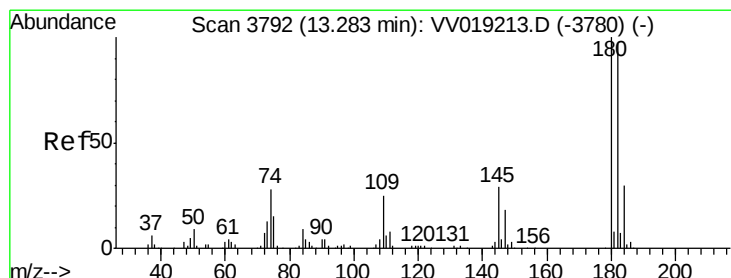
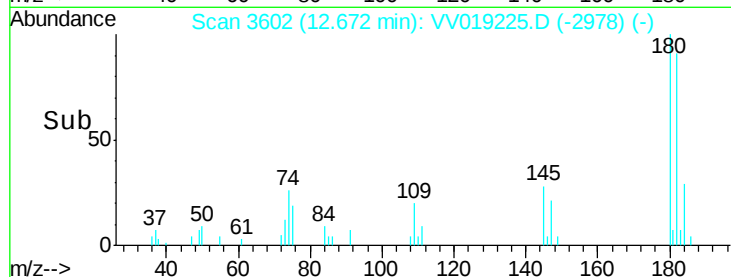
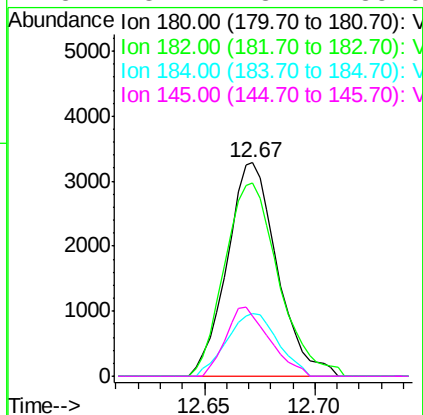
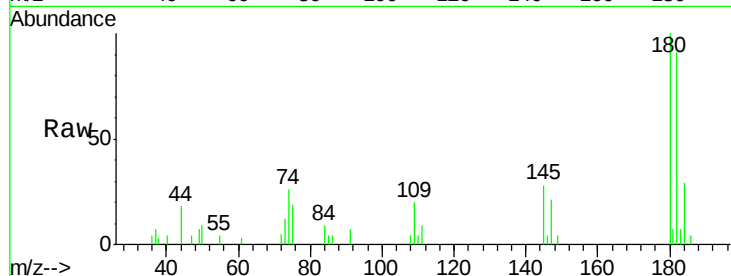
#69
 1,3,5-Trichlorobenzene
 Concen: 2.351 ug/L
 RT: 12.67 min Scan# 3602
 Delta R.T. 0.01 min
 Lab File: VV019225.D
 Acq: 03 Nov 2020 02:51

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-03

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.6	77.7	116.5
184	29.9	24.9	37.3
145	28.1	23.4	35.0

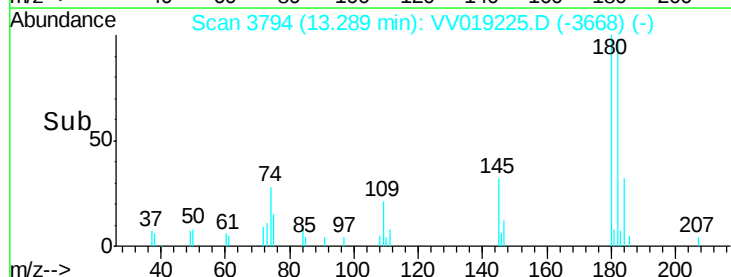
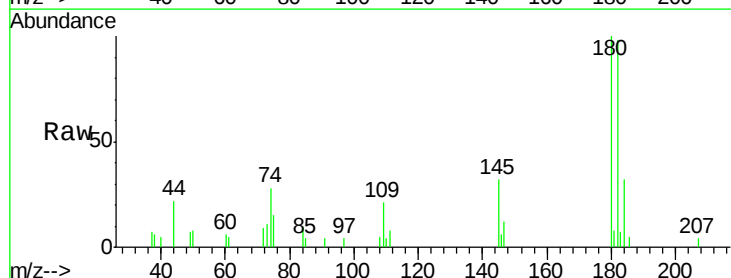
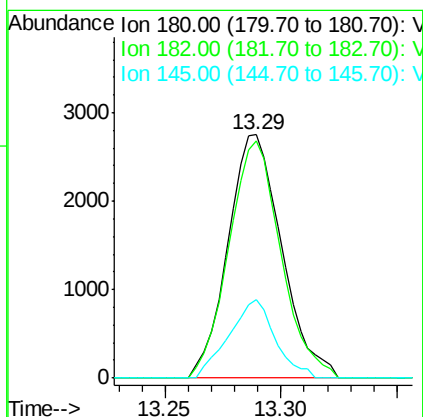
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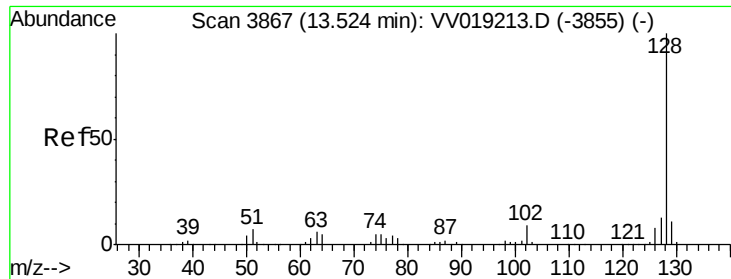
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#70
 1,2,4-trichlorobenzene
 Concen: 2.139 ug/L
 RT: 13.29 min Scan# 3794
 Delta R.T. 0.01 min
 Lab File: VV019225.D
 Acq: 03 Nov 2020 02:51

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.3	76.6	114.8
145	27.8	23.2	34.8





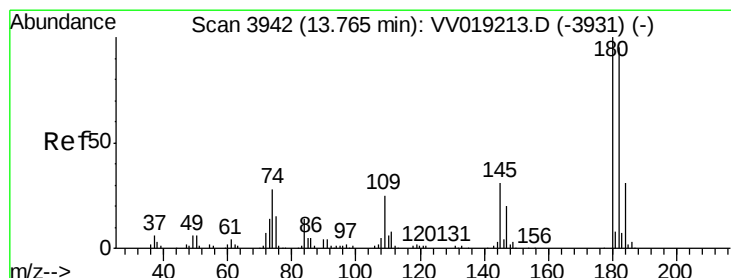
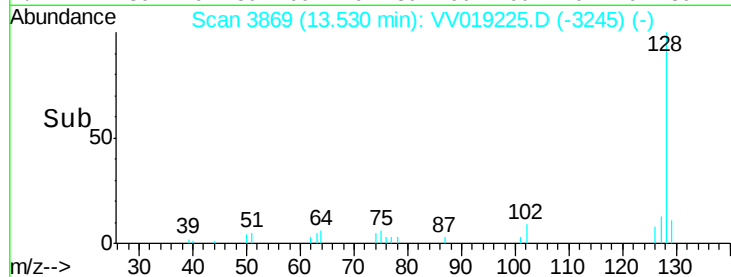
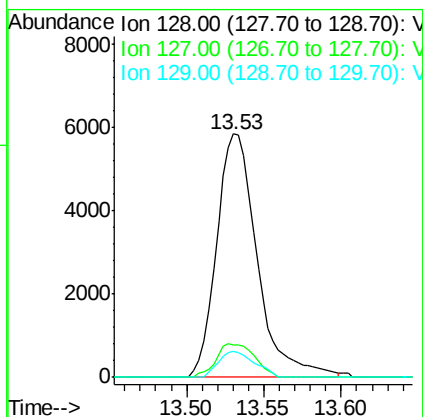
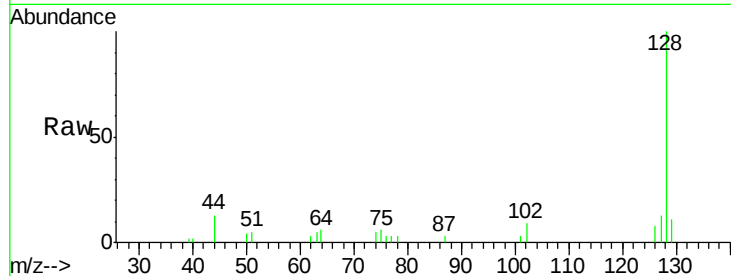
#71
Naphthalene
Concen: 1.826 ug/L
RT: 13.53 min Scan# 3869
Delta R.T. 0.01 min
Lab File: VV019225.D
Acq: 03 Nov 2020 02:51

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-03

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.7	16.1
129	9.4	8.6	13.0

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#72
1,2,3-Trichlorobenzene
Concen: 2.094 ug/L
RT: 13.77 min Scan# 3944
Delta R.T. 0.01 min
Lab File: VV019225.D
Acq: 03 Nov 2020 02:51

Tgt Ion	Ratio	Lower	Upper
180	100		
182	99.6	77.4	116.0
145	31.0	24.7	37.1

