

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV123120\
 Data File : VV019881.D
 Acq On : 31 Dec 2020 14:51
 Operator : SY/MD
 Sample : L4485-13
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleID :
 MDL-WATER-06

Manual Integrations
 APPROVED

MMDadoda
 1/4/2021 11:41:48 AM

Quant Time: Jan 04 10:10:55 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVTR122920WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Jan 01 00:38:14 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.62	114	265385	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.86	117	250864	5.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.26	152	116952	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.30	65	81880	4.29	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	85.80%
7) Chloroethane-d5	1.57	69	71657	4.50	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.00%
11) 1,1-Dichloroethene-d2	2.10	63	133862	3.38	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	67.60%
20) 2-Butanone-d5	3.93	46	165433	41.06	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	82.12%
24) Chloroform-d	4.36	84	149553	4.23	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.60%
26) 1,2-Dichloroethane-d4	5.04	65	85796	4.82	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.40%
32) Benzene-d6	5.05	84	309794	4.50	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.00%
36) 1,2-Dichloropropane-d6	6.08	67	97951	4.74	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.80%
41) Toluene-d8	7.32	98	264985	4.41	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.20%
43) trans-1,3-Dichloropropene-	7.63	79	31118	4.32	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	86.40%
46) 2-Hexanone-d5	8.10	63	119552	41.25	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	82.50%
56) 1,1,2,2-Tetrachloroethane-	10.22	84	53689	4.15	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	83.00%
66) 1,2-Dichlorobenzene-d4	11.63	152	85476	4.71	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	94.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.13	85	6281	0.247 ug/L	99
3) Chloromethane	1.24	50	7120	0.254 ug/L	97
5) Vinyl chloride	1.31	62	7190	0.261 ug/L #	79
6) Bromomethane	1.52	94	4338	0.269 ug/L	90
8) Chloroethane	1.58	64	4167	0.248 ug/L	90
9) Trichlorofluoromethane	1.75	101	8409	0.251 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.11	101	5558	0.309 ug/L	89
12) 1,1-Dichloroethene	2.12	96	5796	0.315 ug/L #	1
13) Acetone	2.23	43	9458m	3.130 ug/L	
14) Carbon disulfide	2.29	76	15941	0.250 ug/L	97
15) Methyl Acetate	2.45	43	1567m	0.208 ug/L	
16) Methylene chloride	2.50	84	8420	0.376 ug/L	99
17) Methyl tert-butyl Ether	2.78	73	10814	0.235 ug/L #	92
18) trans-1,2-Dichloroethene	2.77	96	4852	0.234 ug/L	83
19) 1,1-Dichloroethane	3.19	63	9736	0.242 ug/L	96
21) 2-Butanone	4.02	43	12988m	2.555 ug/L	
22) cis-1,2-Dichloroethene	3.92	96	4934	0.229 ug/L	96

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MMDadoda
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Quant Time: Jan 04 10:10:55 2021
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 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Jan 01 00:38:14 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.26	128	1834	0.213	ug/L	93
25) Chloroform	4.38	83	19999	0.500	ug/L	90
27) 1,2-Dichloroethane	5.14	62	6550	0.269	ug/L	100
29) 1,1,1-Trichloroethane	4.61	97	7685	0.225	ug/L	96
30) Cyclohexane	4.68	56	8460	0.246	ug/L	98
31) Carbon tetrachloride	4.83	117	6165	0.221	ug/L	99
33) Benzene	5.11	78	18729	0.223	ug/L	100
34) Trichloroethene	5.93	95	5849	0.261	ug/L	95
35) Methylcyclohexane	6.13	83	8108	0.242	ug/L	98
37) 1,2-Dichloropropane	6.19	63	4454	0.211	ug/L	98
38) Bromodichloromethane	6.52	83	5912	0.228	ug/L	93
39) cis-1,3-Dichloropropene	7.04	75	6187	0.214	ug/L	98
40) 4-Methyl-2-pentanone	7.24	43	24313	2.044	ug/L #	90
42) Toluene	7.40	91	19503	0.229	ug/L	93
44) trans-1,3-Dichloropropene	7.66	75	6896	0.291	ug/L #	74
45) 1,1,2-Trichloroethane	7.86	97	3188	0.234	ug/L	93
47) Tetrachloroethene	7.98	164	3632	0.238	ug/L	89
48) 2-Hexanone	8.15	43	34921	4.236	ug/L	92
49) Dibromochloromethane	8.25	129	3197	0.217	ug/L	92
50) 1,2-Dibromoethane	8.36	107	2811	0.227	ug/L #	87
51) Chlorobenzene	8.89	112	12605	0.234	ug/L	97
52) Ethylbenzene	9.02	91	20712	0.219	ug/L	98
53) m,p-xylene	9.15	106	7822	0.226	ug/L	88
54) o-xylene	9.55	106	6963	0.210	ug/L	92
55) Styrene	9.57	104	10687	0.191	ug/L	94
57) 1,1,2,2-Tetrachloroethane	10.25	83	3889	0.270	ug/L	98
59) Bromoform	9.74	173	1367	0.215	ug/L #	88
60) Isopropylbenzene	9.94	105	18167	0.213	ug/L	99
61) 1,2,3-Trichloropropane	10.28	75	2784	0.246	ug/L	97
62) 1,3,5-Trimethylbenzene	10.55	105	15705	0.223	ug/L	96
63) 1,2,4-Trimethylbenzene	10.92	105	14776	0.206	ug/L	98
64) 1,3-Dichlorobenzene	11.19	146	8888	0.238	ug/L	97
65) 1,4-Dichlorobenzene	11.28	146	9467	0.252	ug/L	94
67) 1,2-Dichlorobenzene	11.65	146	8350	0.243	ug/L	95
68) 1,2-Dibromo-3-chloropropan	12.43	75	466m	0.200	ug/L	
69) 1,3,5-Trichlorobenzene	12.66	180	6271	0.226	ug/L	96
70) 1,2,4-trichlorobenzene	13.27	180	4581	0.203	ug/L	98
71) Naphthalene	13.51	128	5528	0.162	ug/L #	94
72) 1,2,3-Trichlorobenzene	13.75	180	3880	0.202	ug/L	98

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

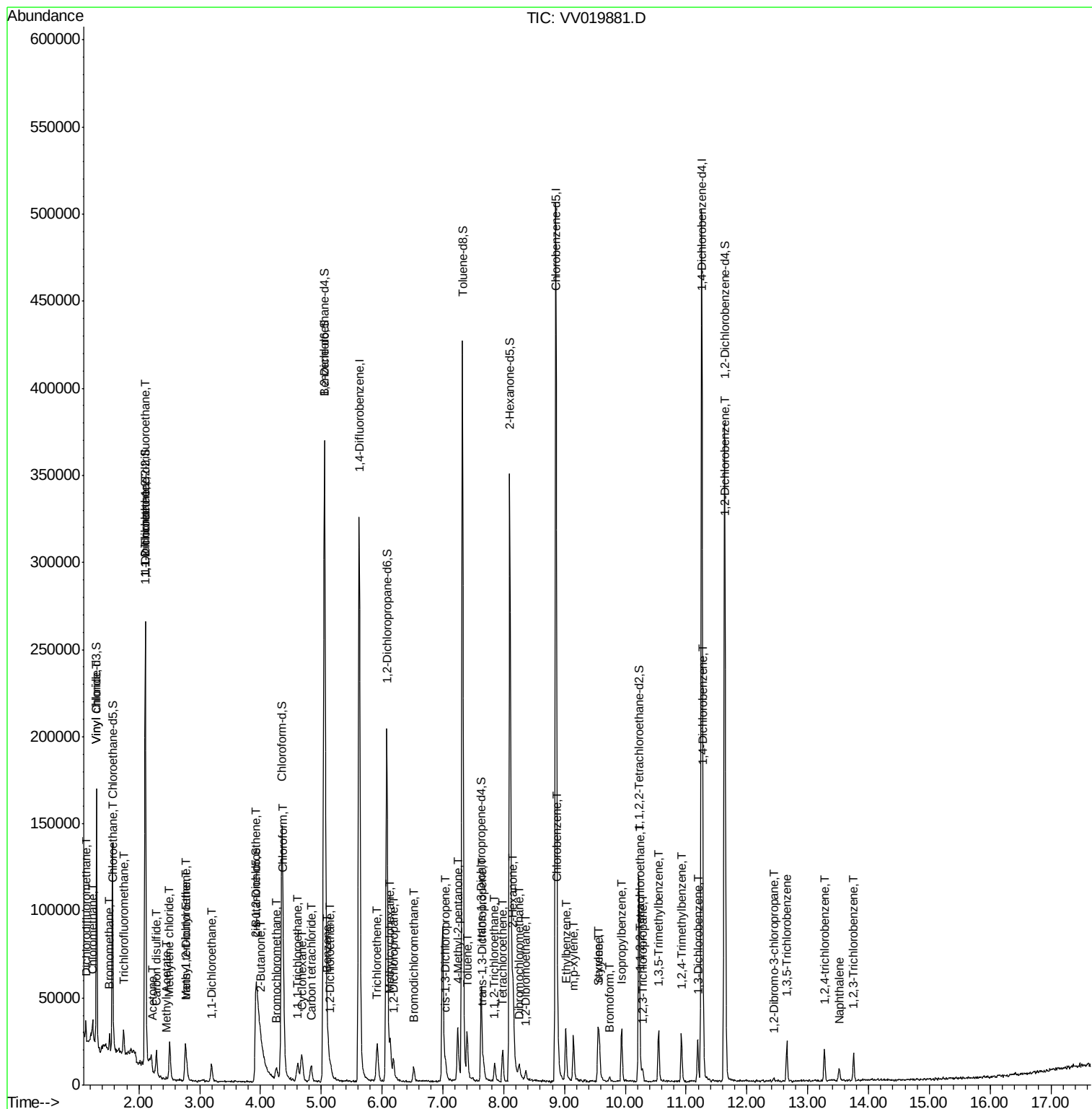
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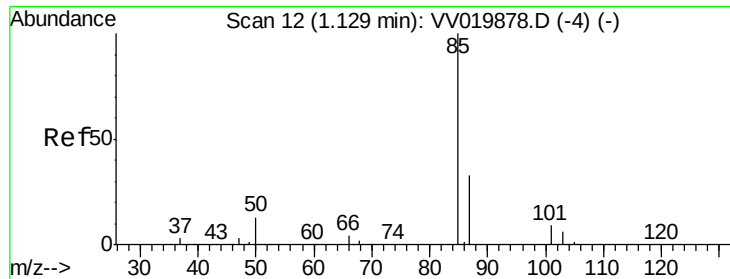
Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-06

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#2

Dichlorodifluoromethane

Concen: 0.247 ug/L

RT: 1.13 min Scan# 12

Delta R.T. -0.00 min

Lab File: VV019881.D

Acq: 31 Dec 2020 14:51

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-06

Tot Ion: 85 Resp: 6281

Ion Ratio Lower Upper

85 100

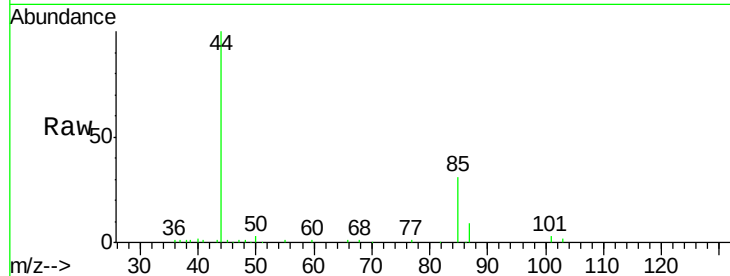
87 31.6 25.6 38.4

Manual Integrations

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Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0

1.13

8000

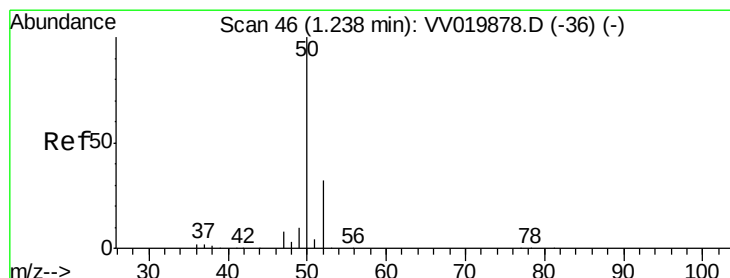
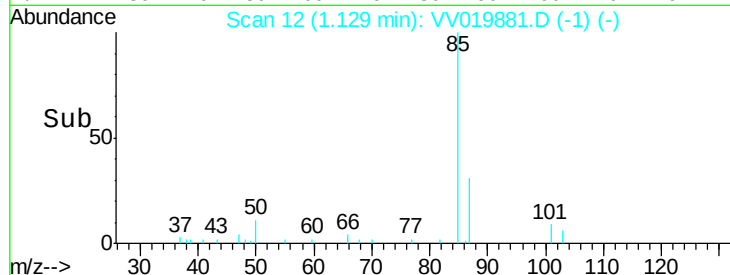
6000

4000

2000

0

Time-->



#3

Chloromethane

Concen: 0.254 ug/L

RT: 1.24 min Scan# 46

Delta R.T. -0.00 min

Lab File: VV019881.D

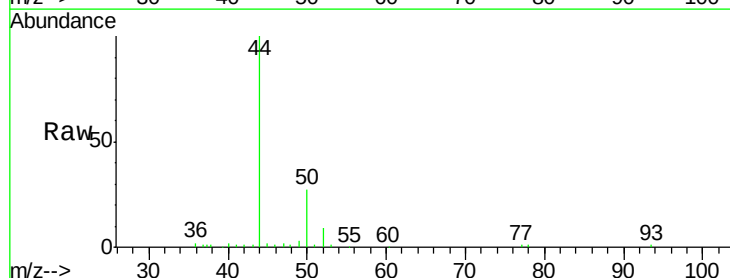
Acq: 31 Dec 2020 14:51

Tgt Ion: 50 Resp: 7120

Ion Ratio Lower Upper

50 100

52 34.6 23.1 42.9



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0

1.24

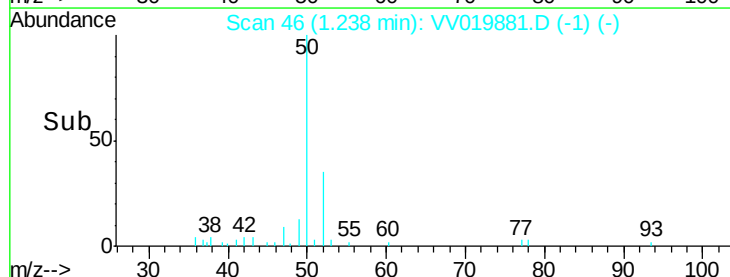
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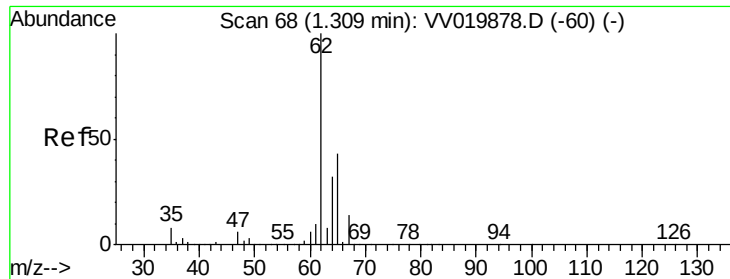
4000

2000

0

Time-->





#5

Vinyl chloride

Concen: 0.261 ug/L

RT: 1.31 min Scan# 68

Delta R.T. -0.00 min

Lab File: VV019881.D

Acq: 31 Dec 2020 14:51

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-06

Tot Ion: 62 Resp: 7190

Ion Ratio Lower Upper

62 100

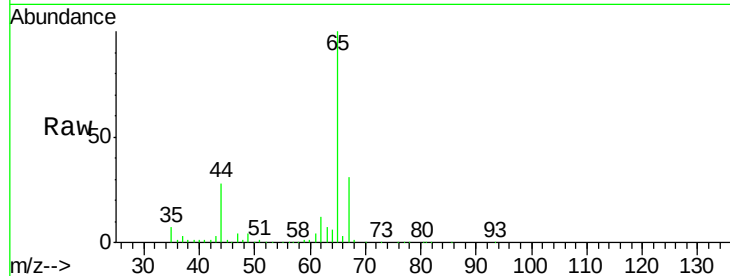
64 45.0 23.2 43.2#

Manual Integrations

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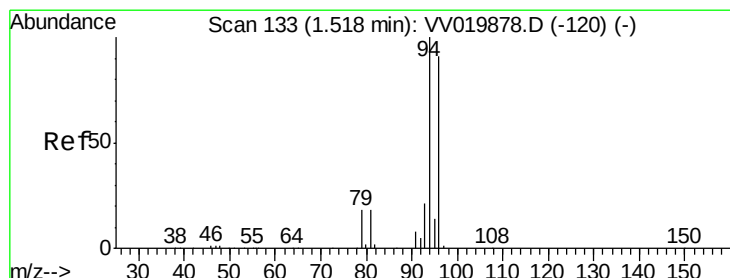
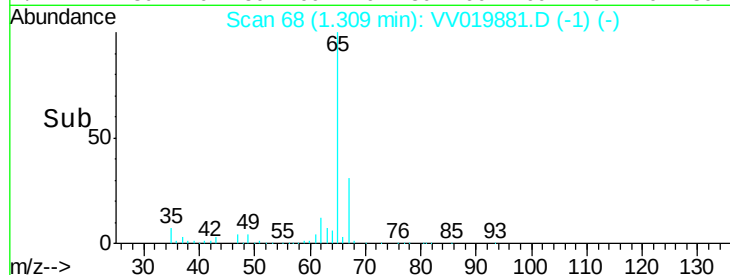
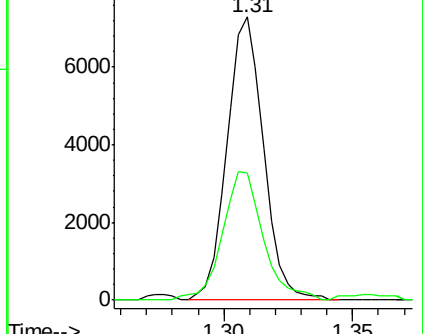
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Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0



#6

Bromomethane

Concen: 0.269 ug/L

RT: 1.52 min Scan# 134

Delta R.T. 0.00 min

Lab File: VV019881.D

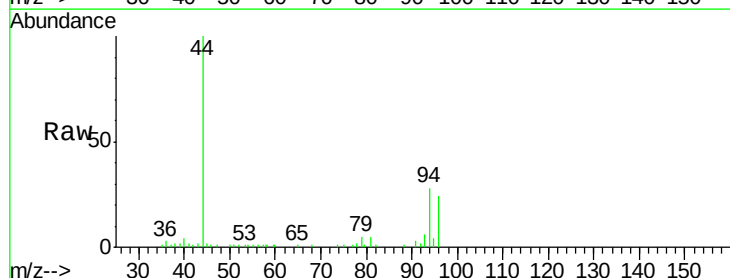
Acq: 31 Dec 2020 14:51

Tgt Ion: 94 Resp: 4338

Ion Ratio Lower Upper

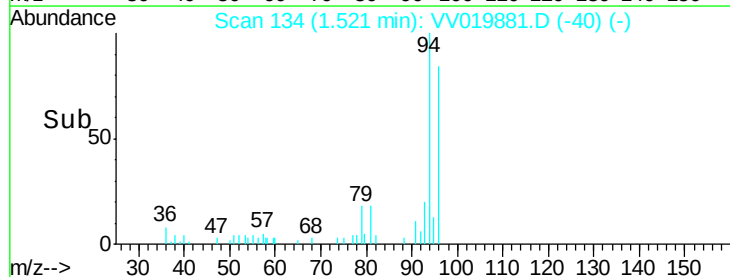
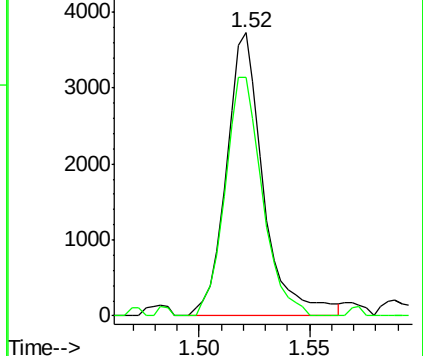
94 100

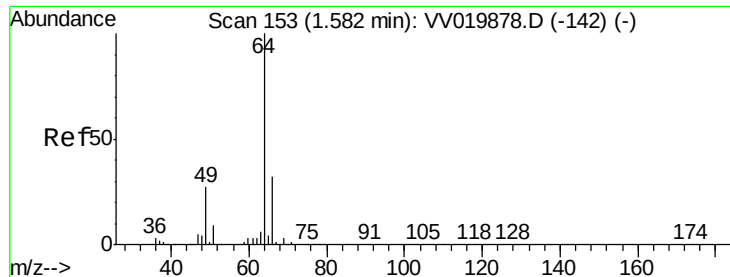
96 84.5 65.6 121.8



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





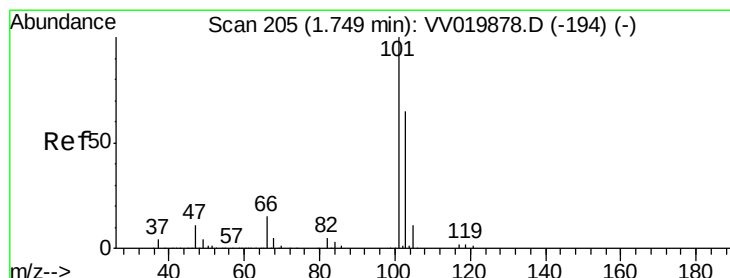
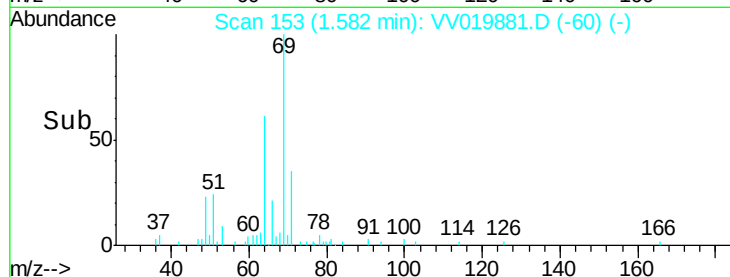
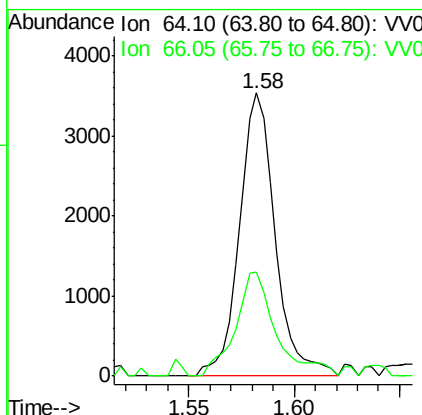
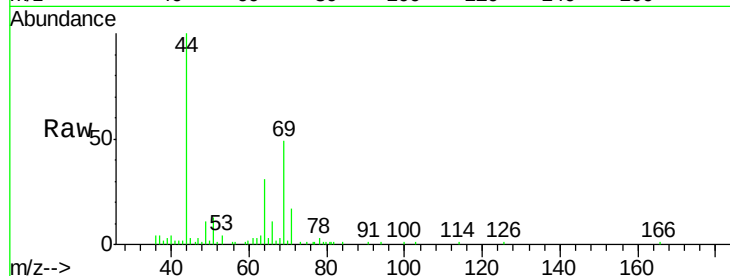
#8
Chloroethane
Concen: 0.248 ug/L
RT: 1.58 min Scan# 153
Delta R.T. -0.00 min
Lab File: VV019881.D
Acq: 31 Dec 2020 14:51

Instrument :
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Tot Ion	Ratio	Lower	Upper
64	100		
66	36.9	22.0	40.8

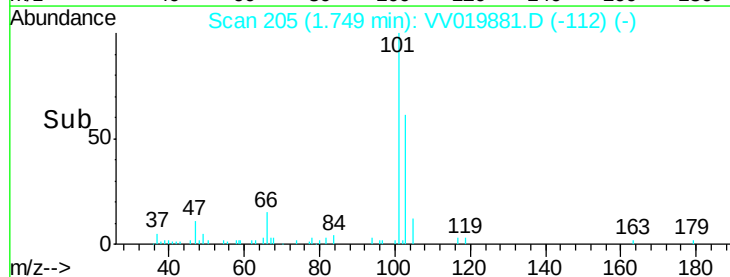
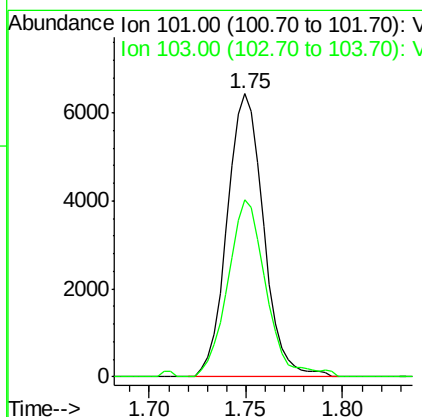
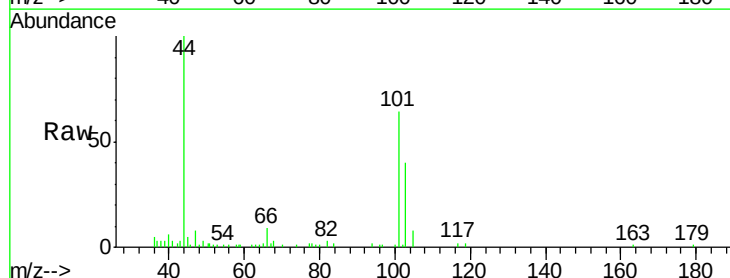
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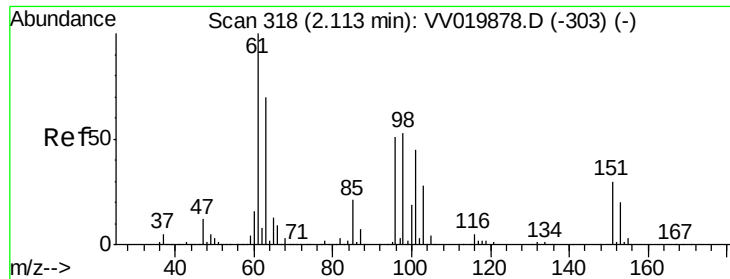
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#9
Trichlorofluoromethane
Concen: 0.251 ug/L
RT: 1.75 min Scan# 205
Delta R.T. -0.00 min
Lab File: VV019881.D
Acq: 31 Dec 2020 14:51

Tgt Ion	Ratio	Lower	Upper
101	100		
103	65.5	51.8	77.8





#10

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

Concen: 0.309 ug/L

RT: 2.11 min Scan# 317

Delta R.T. -0.00 min

Lab File: VV019881.D

Acq: 31 Dec 2020 14:51

Instrument :

MSVOA_V

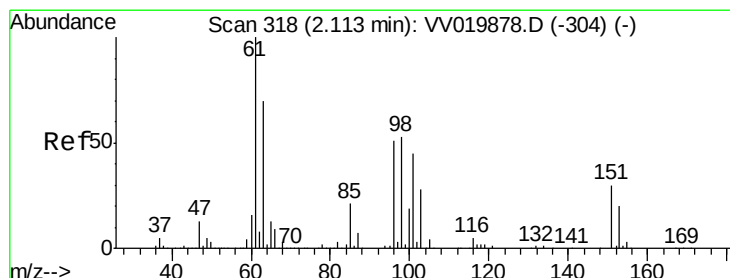
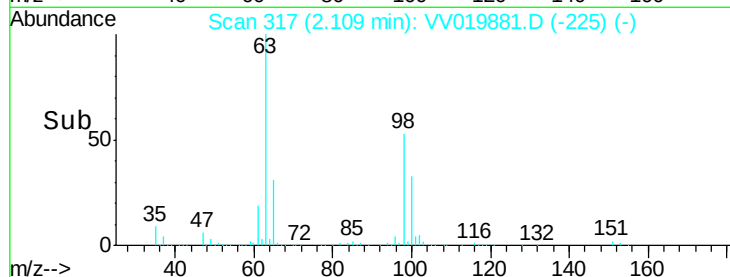
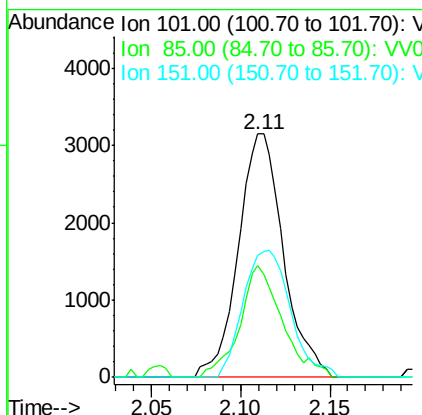
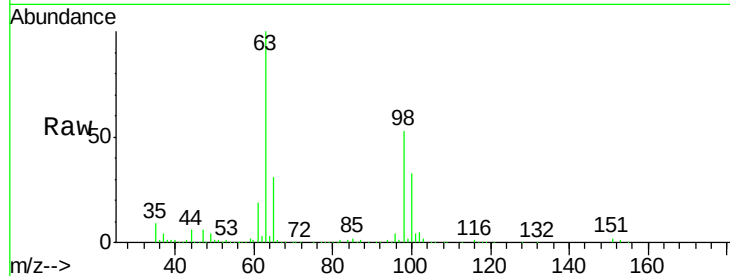
ClientSampleId :

MDL-WATER-06

Tot Ion:	101	Resp:	5558
Ion Ratio	Lower	Upper	
101	100		
85	43.3	36.4	54.6
151	54.8	54.1	81.1

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#12

1,1-Dichloroethene

Concen: 0.315 ug/L

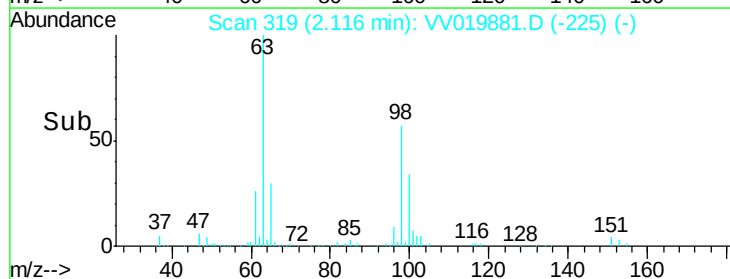
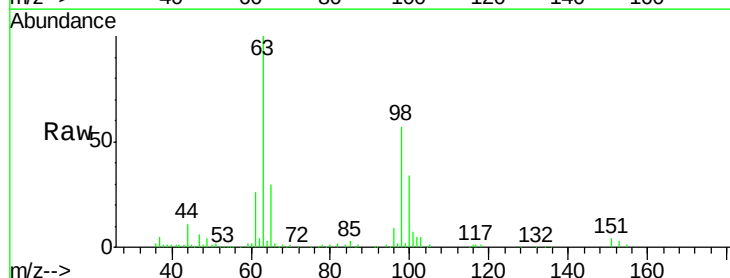
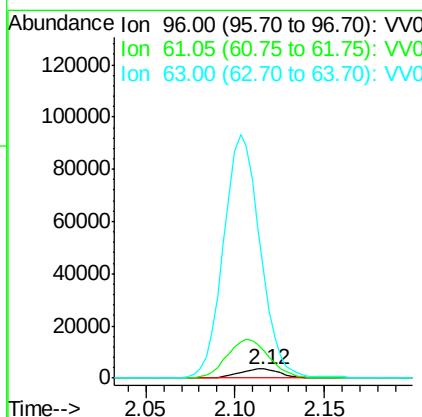
RT: 2.12 min Scan# 319

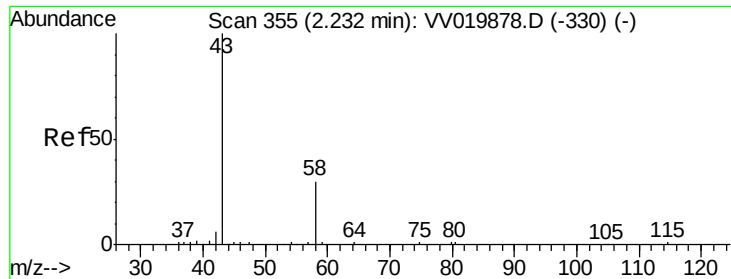
Delta R.T. 0.00 min

Lab File: VV019881.D

Acq: 31 Dec 2020 14:51

Tgt Ion:	96	Resp:	5796
Ion Ratio	Lower	Upper	
96	100		
61	294.4	131.5	244.1#
63	1135.5	95.2	176.8#





#13

Acetone

Concen: 3.130 ug/L m

RT: 2.23 min Scan# 354

Delta R.T. -0.00 min

Lab File: VV019881.D

Acq: 31 Dec 2020 14:51

Tot Ion: 43 Resp: 9458

Ion Ratio Lower Upper

43 100

58 4.9 0.0 31.4

Instrument :

MSVOA_V

ClientSampleId :

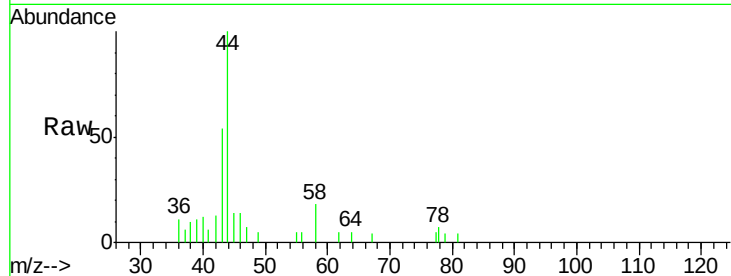
MDL-WATER-06

Manual Integrations

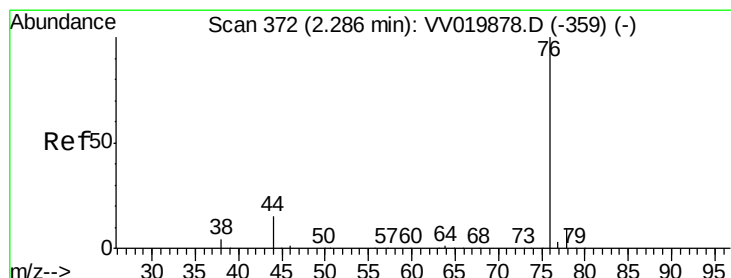
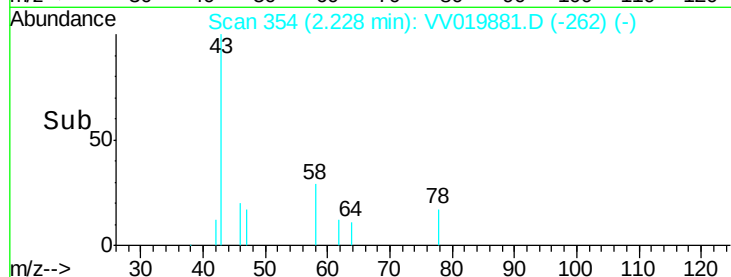
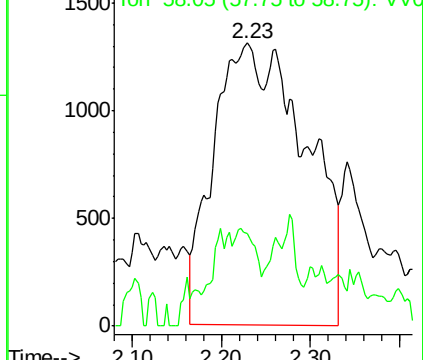
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Abundance Ion 43.05 (42.75 to 43.75): VV019881.D (-262) (-)



#14

Carbon disulfide

Concen: 0.250 ug/L

RT: 2.29 min Scan# 373

Delta R.T. 0.00 min

Lab File: VV019881.D

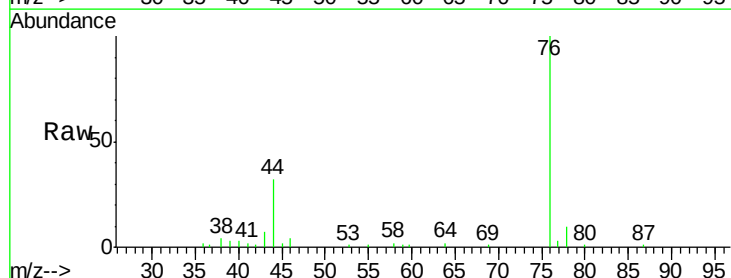
Acq: 31 Dec 2020 14:51

Tgt Ion: 76 Resp: 15941

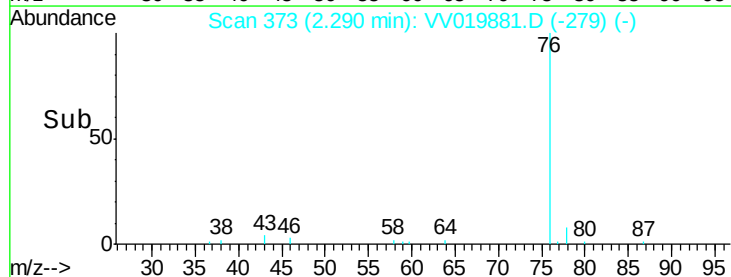
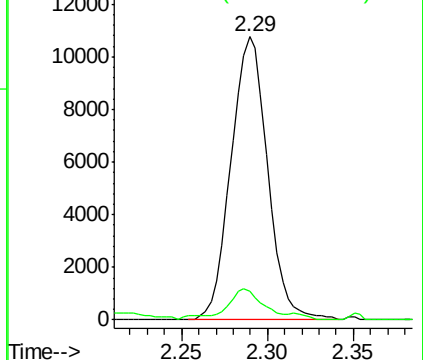
Ion Ratio Lower Upper

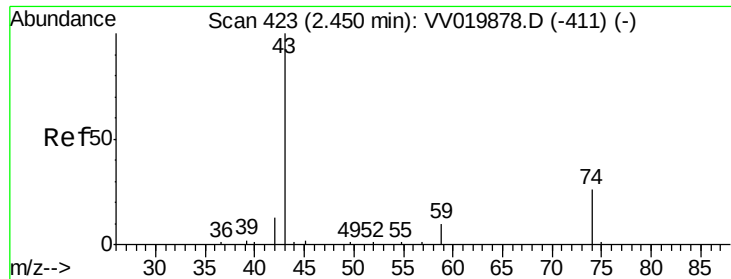
76 100

78 10.2 7.2 10.8



Abundance Ion 76.05 (75.75 to 76.75): VV019881.D (-279) (-)





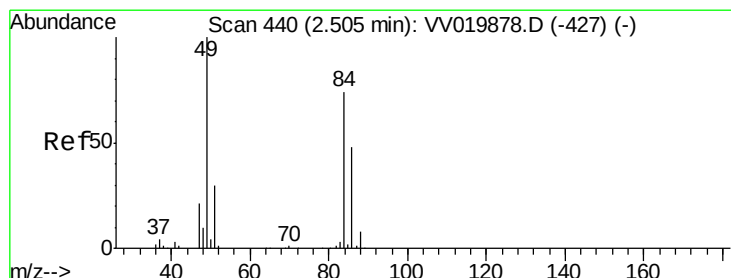
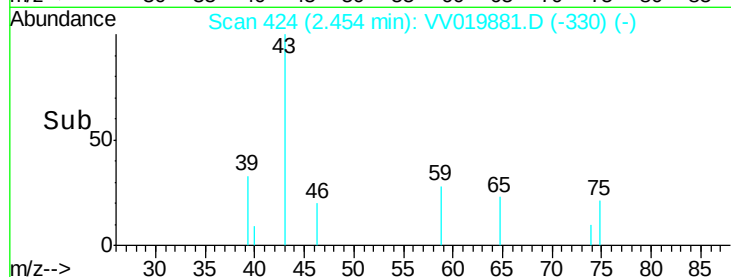
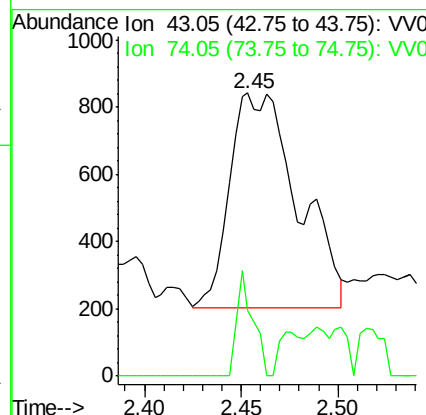
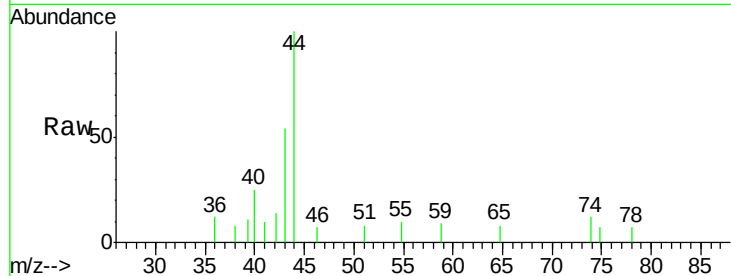
#15
Methyl Acetate
Concen: 0.208 ug/L m
RT: 2.45 min Scan# 424
Delta R.T. 0.00 min
Lab File: VV019881.D
Acq: 31 Dec 2020 14:51

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-06

Tot Ion: 43 Resp: 1567
Ion Ratio Lower Upper
43 100
74 11.7 10.6 16.0

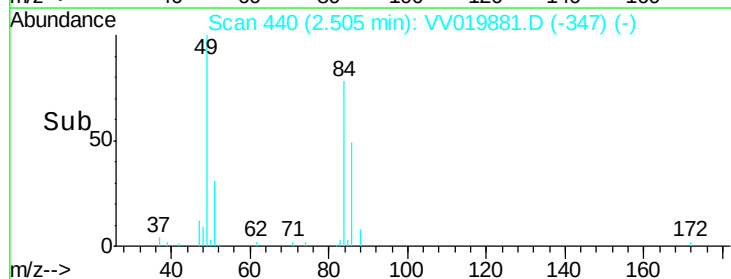
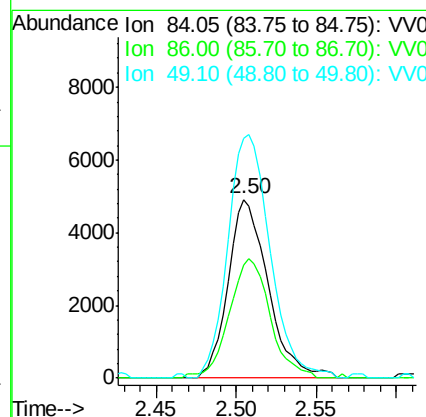
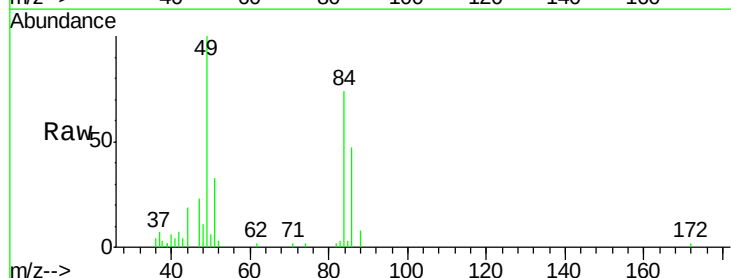
Manual Integrations
APPROVED

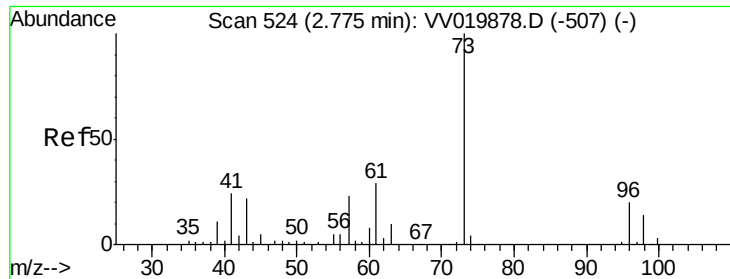
MMDadoda
1/4/2021 11:41:48 AM



#16
Methylene chloride
Concen: 0.376 ug/L
RT: 2.50 min Scan# 440
Delta R.T. -0.00 min
Lab File: VV019881.D
Acq: 31 Dec 2020 14:51

Tgt Ion: 84 Resp: 8420
Ion Ratio Lower Upper
84 100
86 63.1 42.8 79.4
49 134.4 93.9 174.3





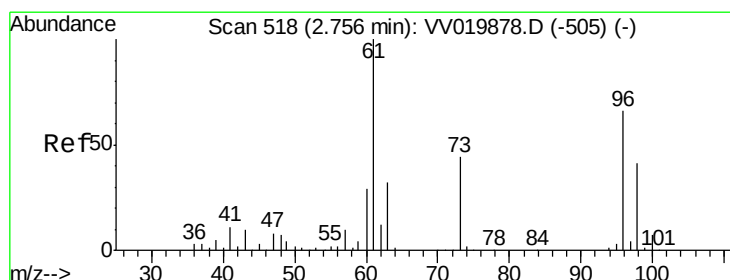
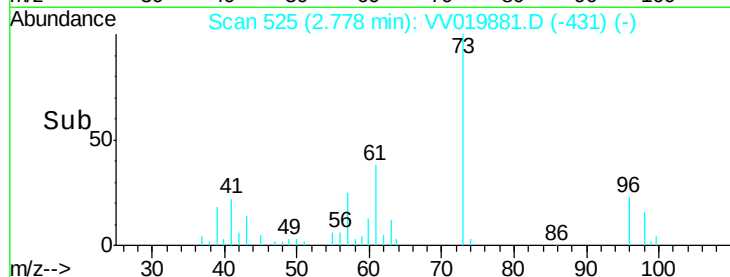
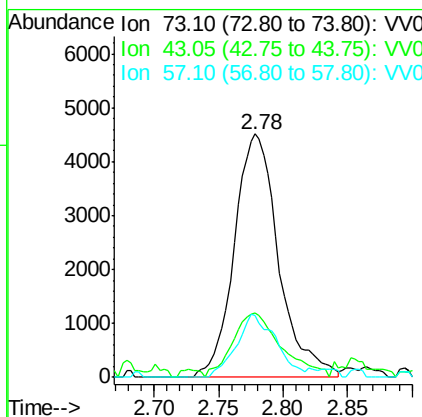
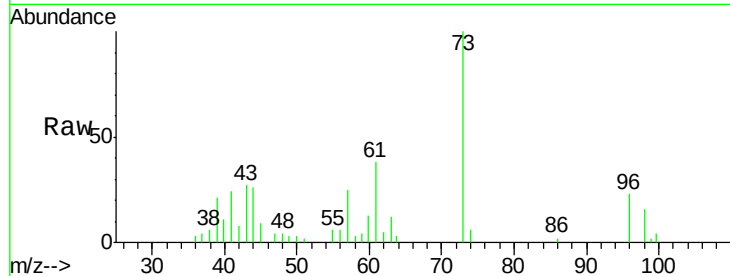
#17
Methyl tert-butyl Ether
Concen: 0.235 ug/L
RT: 2.78 min Scan# 525
Delta R.T. 0.00 min
Lab File: VV019881.D
Acq: 31 Dec 2020 14:51

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-06

Tot Ion	Ratio	Lower	Upper
73	100		
43	29.1	17.0	25.6#
57	23.0	18.2	27.4

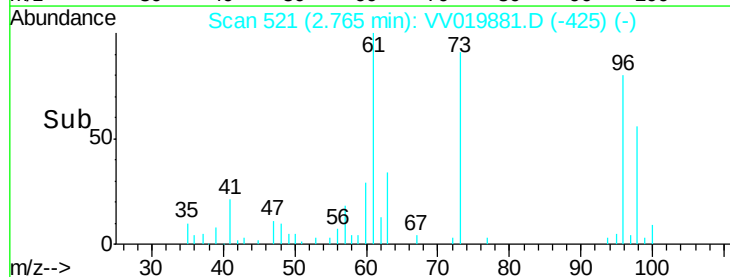
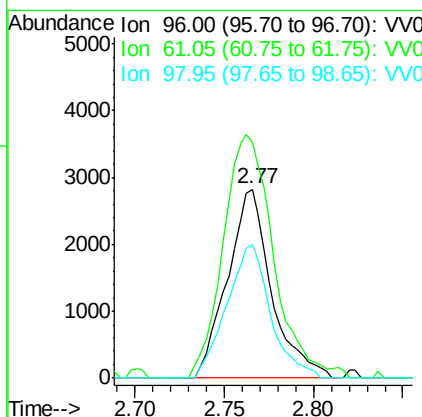
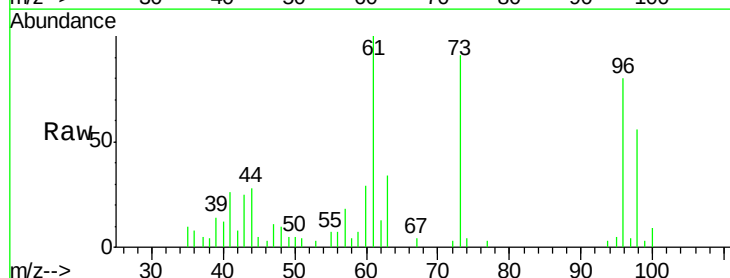
Manual Integrations
APPROVED

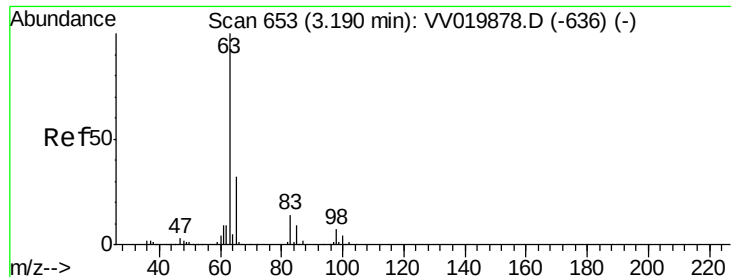
MMDadoda
1/4/2021 11:41:48 AM



#18
trans-1,2-Dichloroethene
Concen: 0.234 ug/L
RT: 2.77 min Scan# 521
Delta R.T. 0.01 min
Lab File: VV019881.D
Acq: 31 Dec 2020 14:51

Tgt Ion	Ratio	Lower	Upper
96	100		
61	124.8	106.3	197.3
98	70.4	44.7	82.9





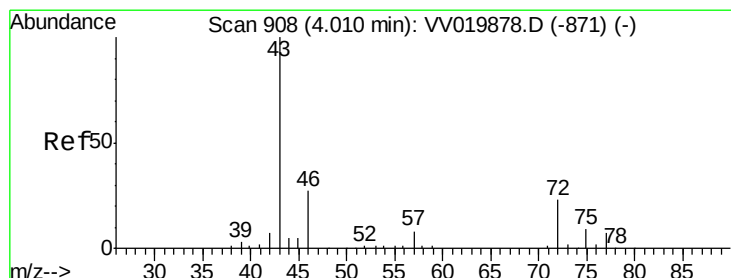
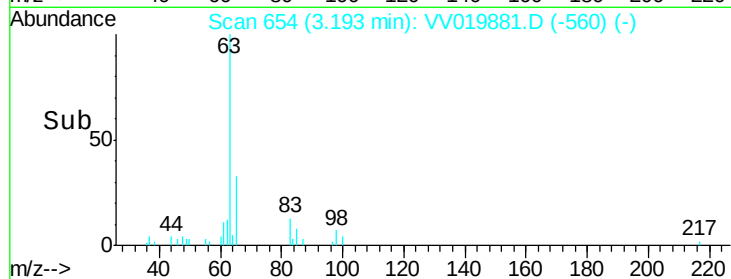
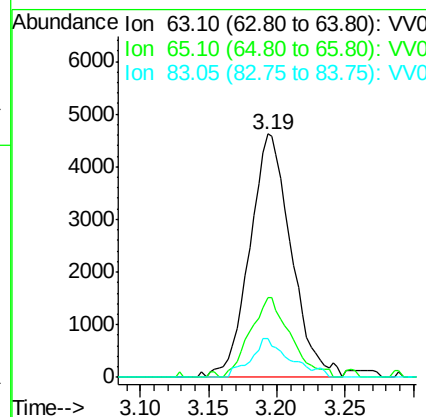
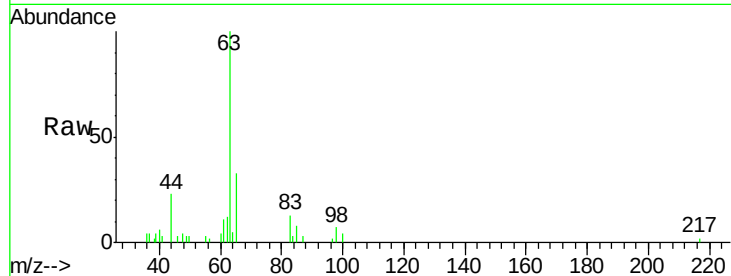
#19
 1,1-Dichloroethane
 Concen: 0.242 ug/L
 RT: 3.19 min Scan# 654
 Delta R.T. 0.00 min
 Lab File: VV019881.D
 Acq: 31 Dec 2020 14:51

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-06

Tot Ion:	63	Resp:	9736
Ion	Ratio	Lower	Upper
63	100		
65	33.0	21.8	40.6
83	15.8	9.0	16.8

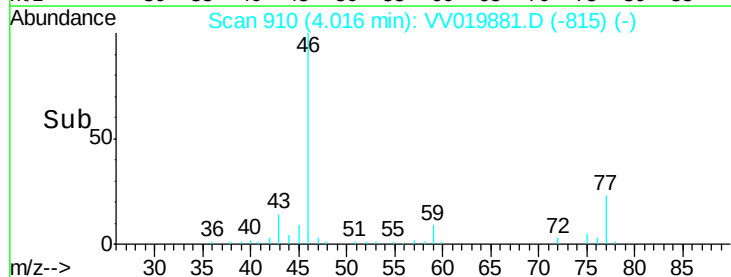
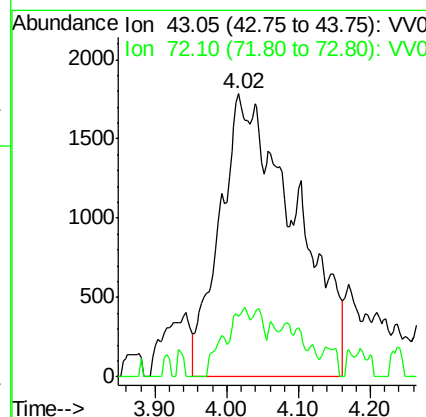
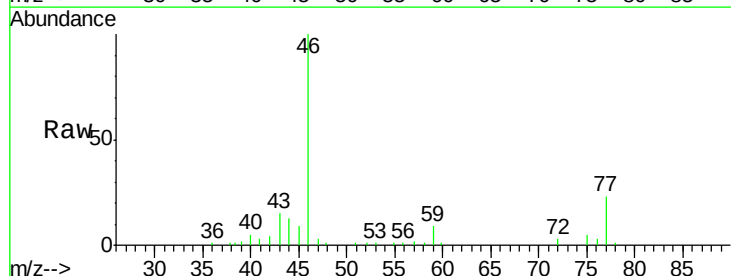
Manual Integrations
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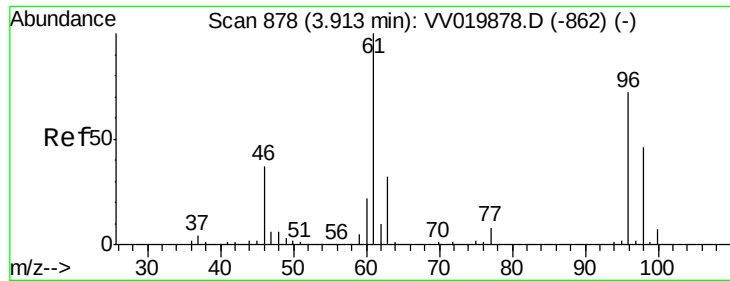
MMDadoda
 1/4/2021 11:41:48 AM



#21
 2-Butanone
 Concen: 2.555 ug/L m
 RT: 4.02 min Scan# 910
 Delta R.T. 0.01 min
 Lab File: VV019881.D
 Acq: 31 Dec 2020 14:51

Tgt Ion:	43	Resp:	12988
Ion	Ratio	Lower	Upper
43	100		
72	2.6	10.9	32.7#





#22

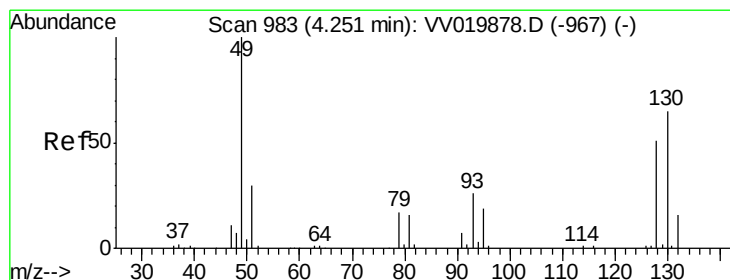
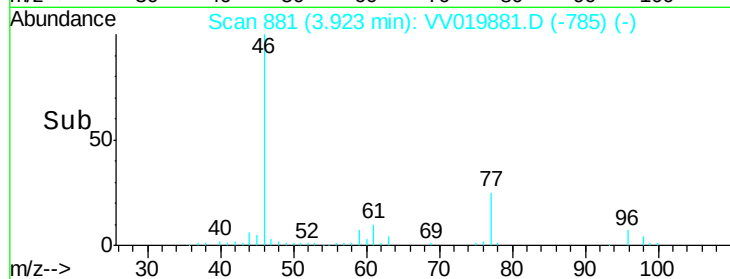
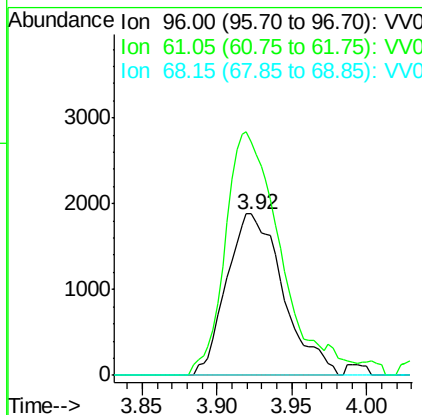
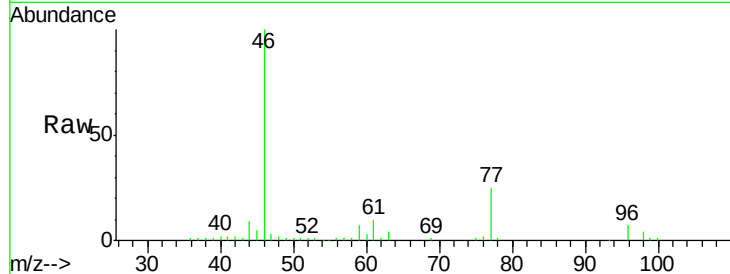
cis-1,2-Dichloroethene
Concen: 0.229 ug/L
RT: 3.92 min Scan# 881
Delta R.T. 0.01 min
Lab File: VV019881.D
Acq: 31 Dec 2020 14:51

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-06

Tot Ion	Ratio	Lower	Upper
96	100		
61	144.8	98.1	182.3
68	0.0	0.0	0.0

Manual Integrations
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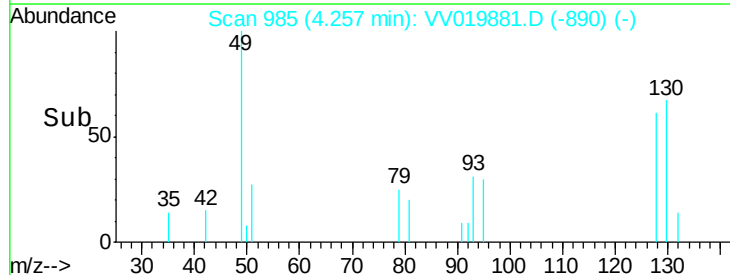
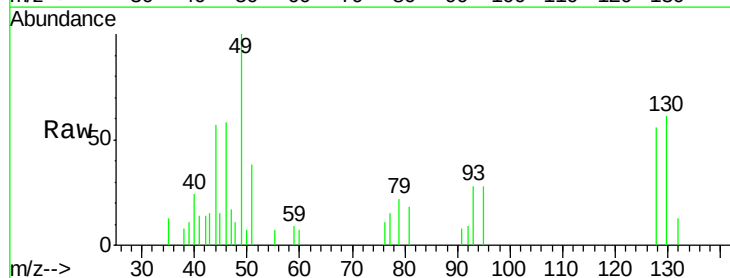
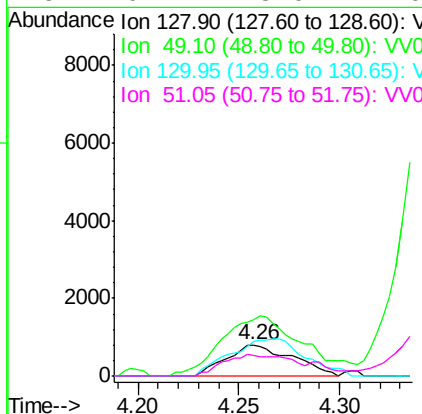
MMDadoda
1/4/2021 11:41:48 AM

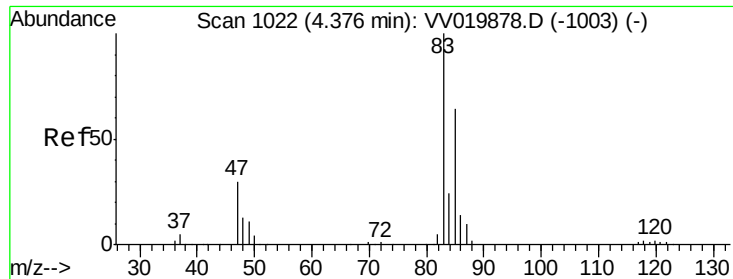


#23

Bromochloromethane
Concen: 0.213 ug/L
RT: 4.26 min Scan# 985
Delta R.T. 0.01 min
Lab File: VV019881.D
Acq: 31 Dec 2020 14:51

Tgt Ion	Ratio	Lower	Upper
128	100		
49	192.7	132.6	246.2
130	109.0	86.4	160.4
51	67.7	48.0	72.0





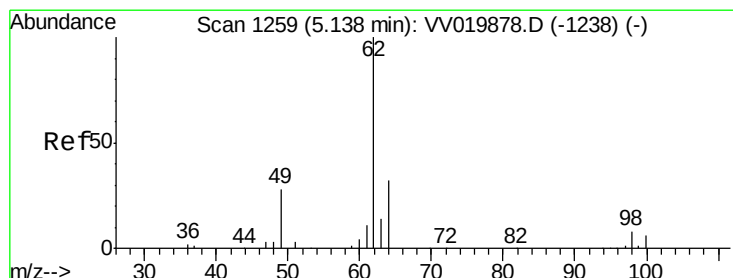
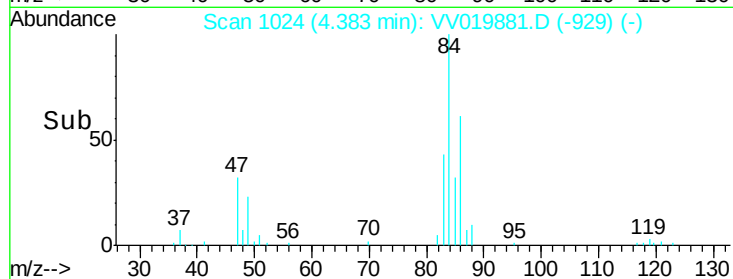
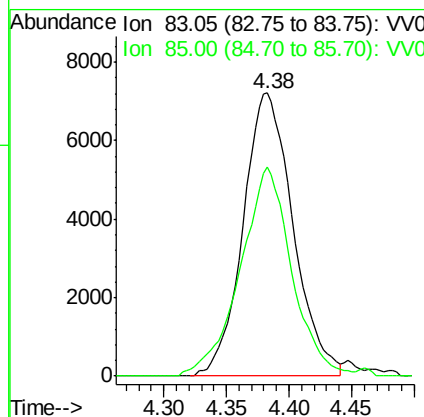
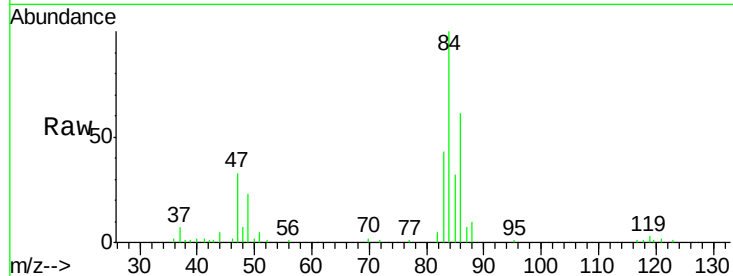
#25
Chloroform
Concen: 0.500 ug/L
RT: 4.38 min Scan# 1024
Delta R.T. 0.01 min
Lab File: VV019881.D
Acq: 31 Dec 2020 14:51

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-06

Tot Ion: 83 Resp: 19999
Ion Ratio Lower Upper
83 100
85 73.9 46.4 86.2

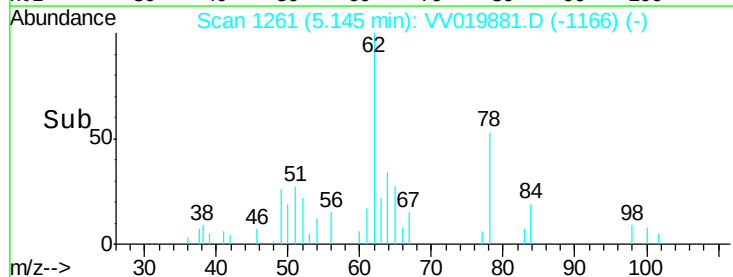
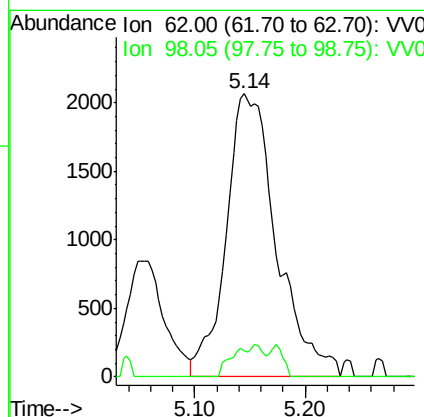
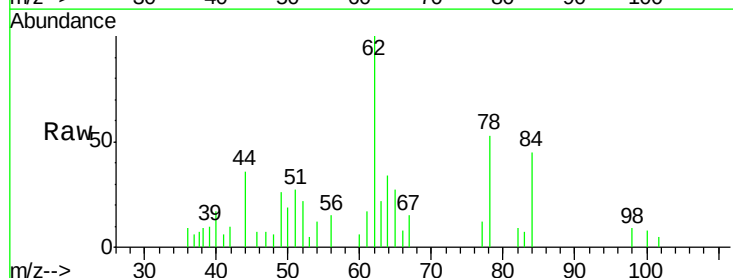
Manual Integrations
APPROVED

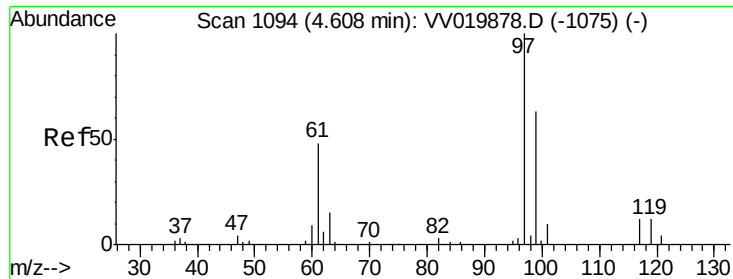
MMDadoda
1/4/2021 11:41:48 AM



#27
1,2-Dichloroethane
Concen: 0.269 ug/L
RT: 5.14 min Scan# 1261
Delta R.T. 0.01 min
Lab File: VV019881.D
Acq: 31 Dec 2020 14:51

Tgt Ion: 62 Resp: 6550
Ion Ratio Lower Upper
62 100
98 9.4 7.6 11.4





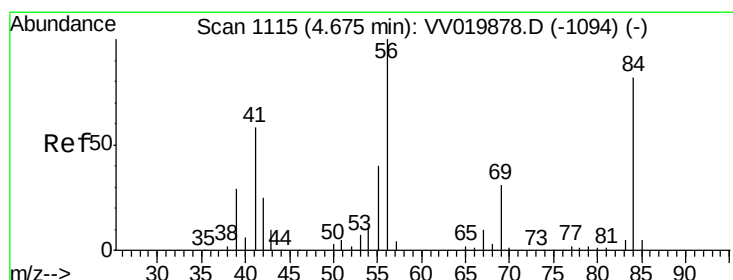
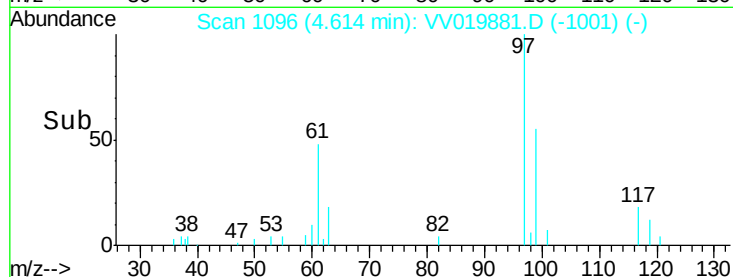
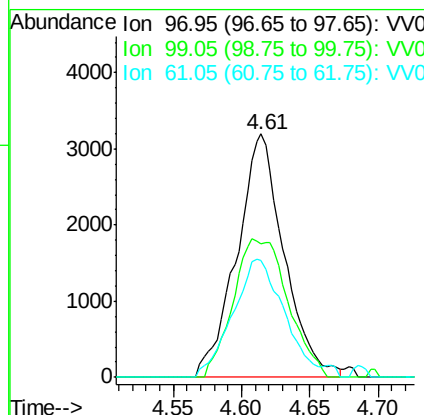
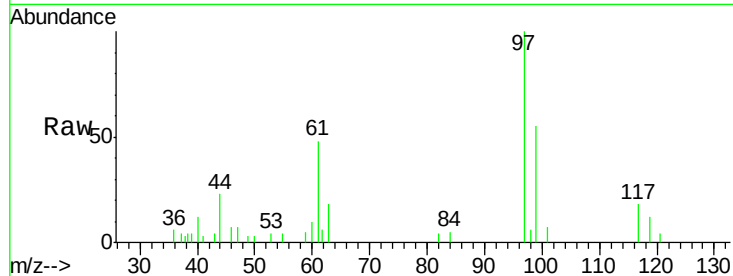
#29
 1,1,1-Trichloroethane
 Concen: 0.225 ug/L
 RT: 4.61 min Scan# 1096
 Delta R.T. 0.01 min
 Lab File: VV019881.D
 Acq: 31 Dec 2020 14:51

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-06

Tot Ion	Ratio	Lower	Upper
97	100		
99	65.9	51.1	76.7
61	52.6	38.6	57.8

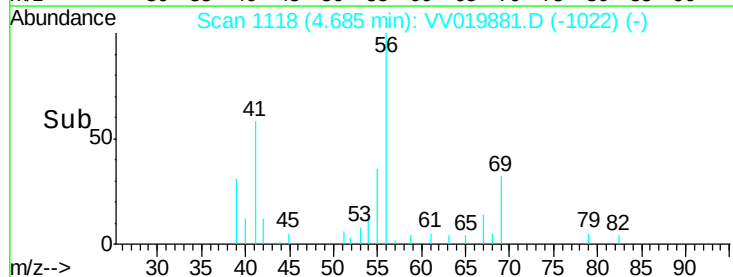
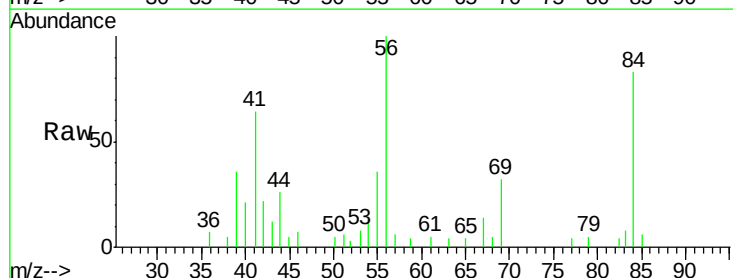
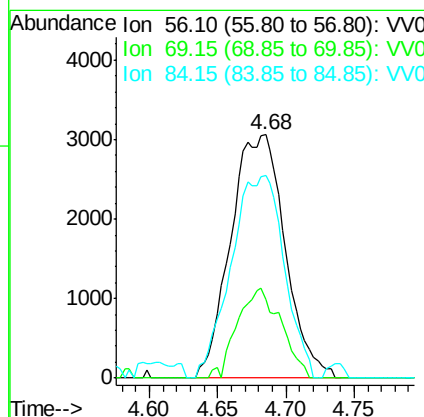
Manual Integrations
 APPROVED

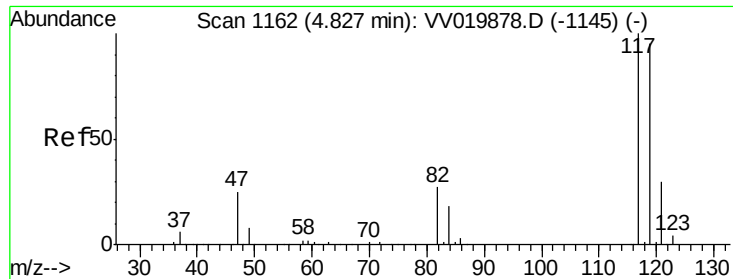
MMDadoda
 1/4/2021 11:41:48 AM



#30
 Cyclohexane
 Concen: 0.246 ug/L
 RT: 4.68 min Scan# 1118
 Delta R.T. 0.01 min
 Lab File: VV019881.D
 Acq: 31 Dec 2020 14:51

Tgt Ion	Ratio	Lower	Upper
56	100		
69	29.8	24.1	36.1
84	81.3	66.8	100.2





#31

Carbon tetrachloride

Concen: 0.221 ug/L

RT: 4.83 min Scan# 1163

Delta R.T. 0.00 min

Lab File: VV019881.D

Acq: 31 Dec 2020 14:51

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-06

Tot Ion:117 Resp: 6165

Ion Ratio Lower Upper

117 100

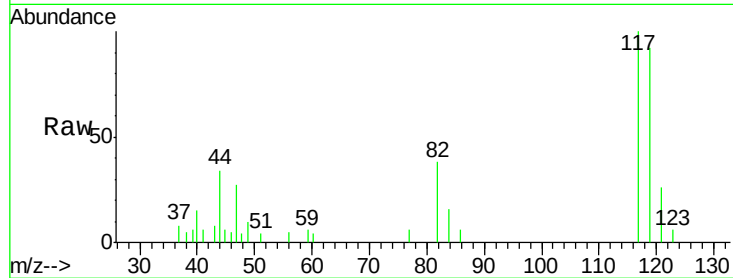
119 96.4 76.0 114.0

Manual Integrations

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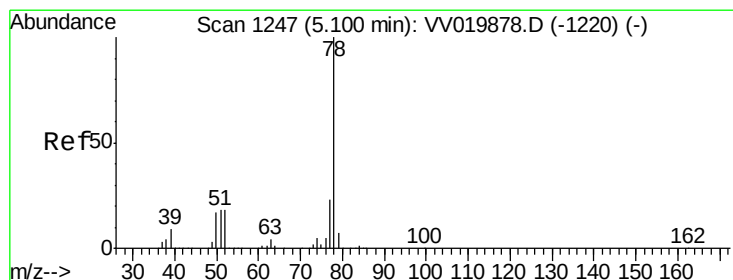
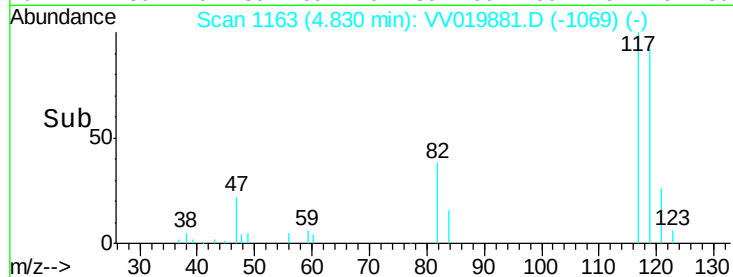
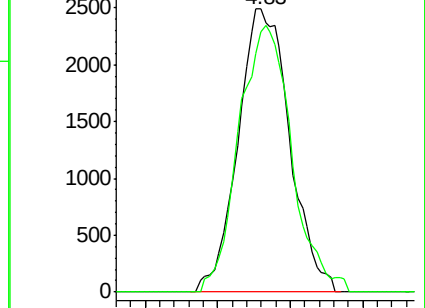
MMDadoda

1/4/2021 11:41:48 AM



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.223 ug/L

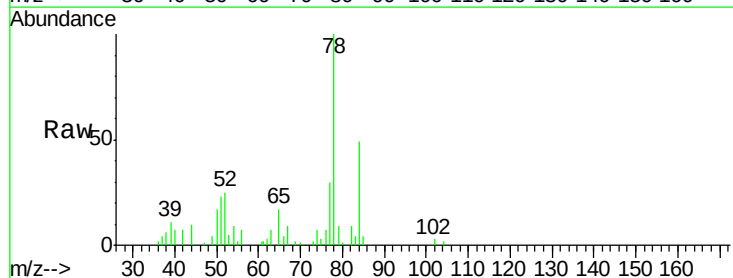
RT: 5.11 min Scan# 1249

Delta R.T. 0.01 min

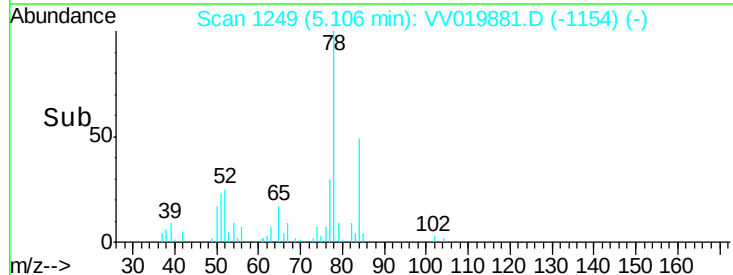
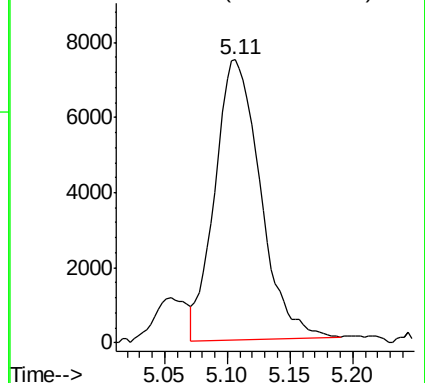
Lab File: VV019881.D

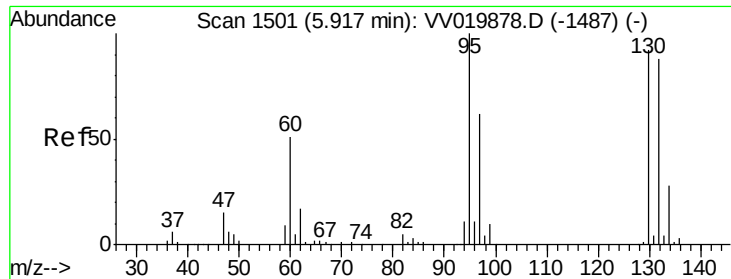
Acq: 31 Dec 2020 14:51

Tgt Ion: 78 Resp: 18729



Abundance Ion 78.10 (77.80 to 78.80): VV0





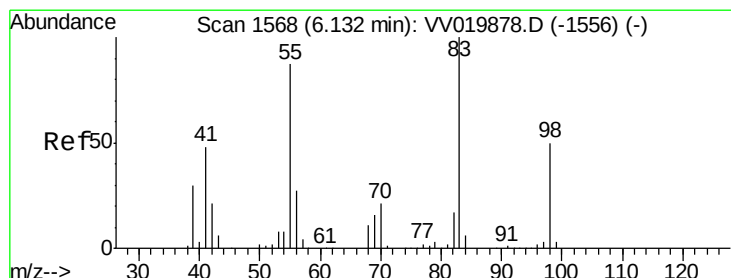
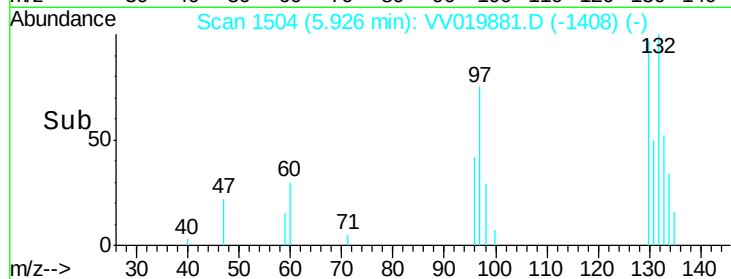
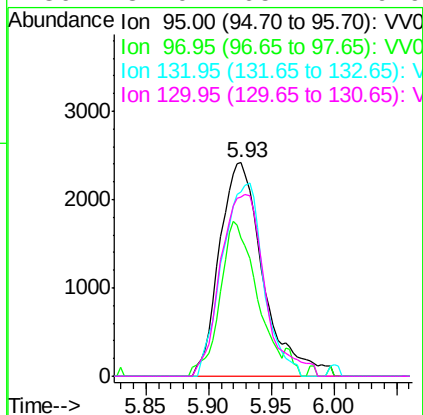
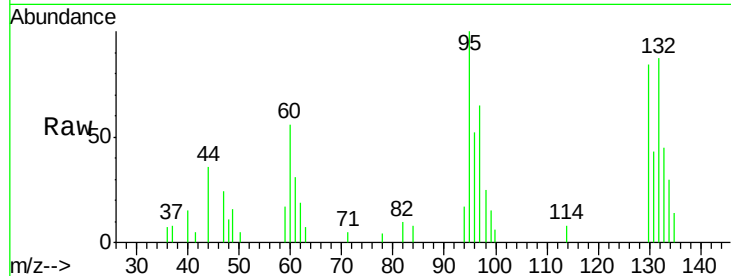
#34
 Trichloroethene
 Concen: 0.261 ug/L
 RT: 5.93 min Scan# 1504
 Delta R.T. 0.01 min
 Lab File: VV019881.D
 Acq: 31 Dec 2020 14:51

Instrument :
 MSVOA_V
 ClientSampled :
 MDL-WATER-06

Tot Ion:	95	Resp:	5849
Ion	Ratio	Lower	Upper
95	100		
97	64.8	44.1	81.9
132	86.5	61.2	113.8
130	84.0	65.1	120.9

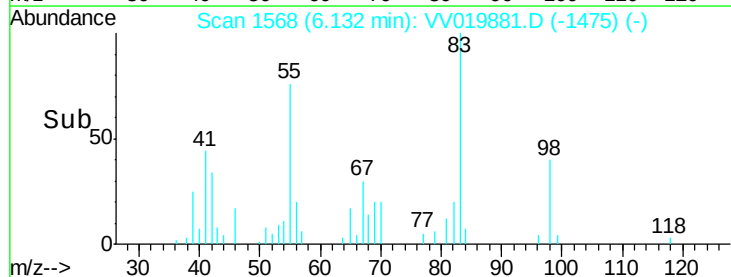
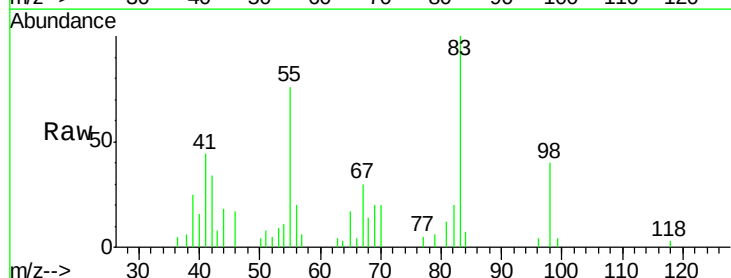
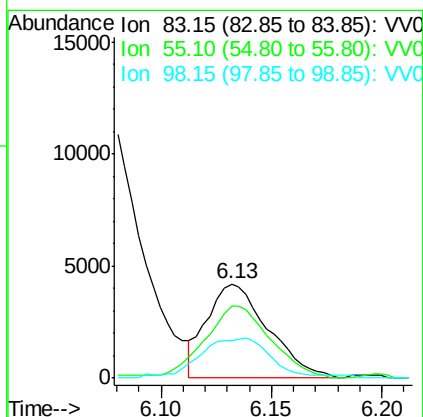
Manual Integrations
 APPROVED

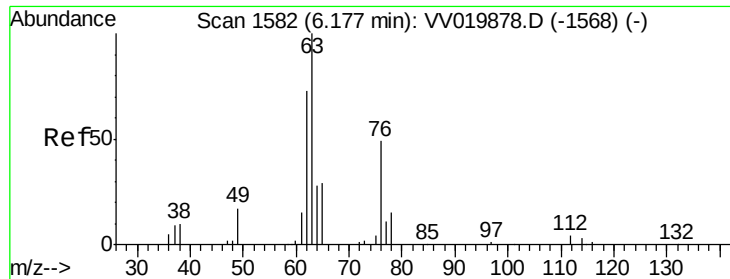
MMDadoda
 1/4/2021 11:41:48 AM



#35
 Methylcyclohexane
 Concen: 0.242 ug/L
 RT: 6.13 min Scan# 1568
 Delta R.T. -0.00 min
 Lab File: VV019881.D
 Acq: 31 Dec 2020 14:51

Tgt Ion:	83	Resp:	8108
Ion	Ratio	Lower	Upper
83	100		
55	82.1	67.5	101.3
98	48.9	38.6	58.0





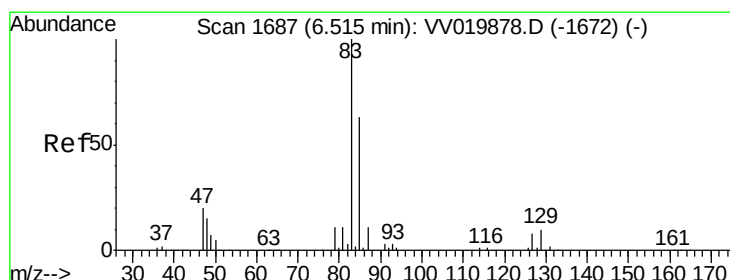
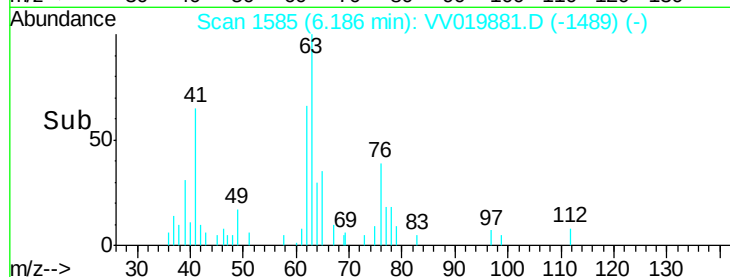
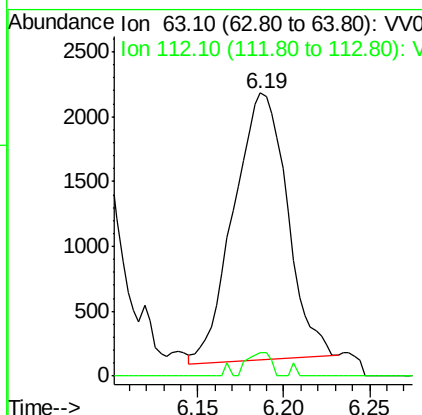
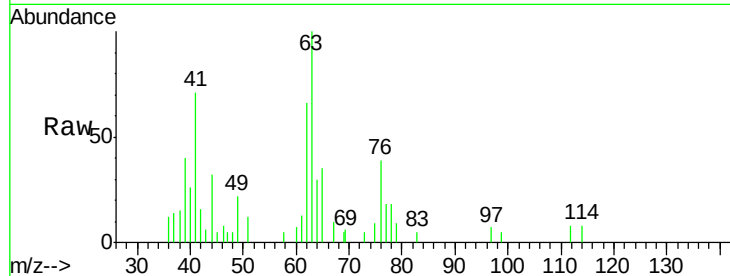
#37
 1,2-Dichloropropane
 Concen: 0.211 ug/L
 RT: 6.19 min Scan# 1585
 Delta R.T. 0.01 min
 Lab File: VV019881.D
 Acq: 31 Dec 2020 14:51

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-06

Tot Ion: 63 Resp: 4454
 Ion Ratio Lower Upper
 63 100
 112 4.0 3.6 5.4

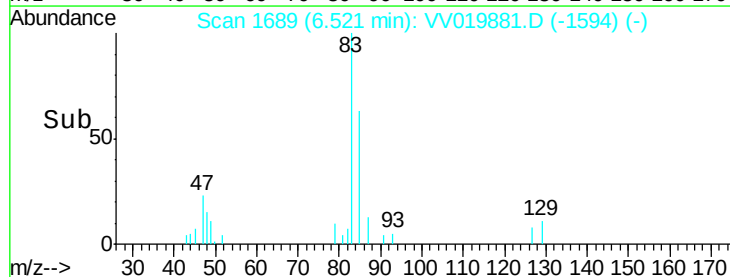
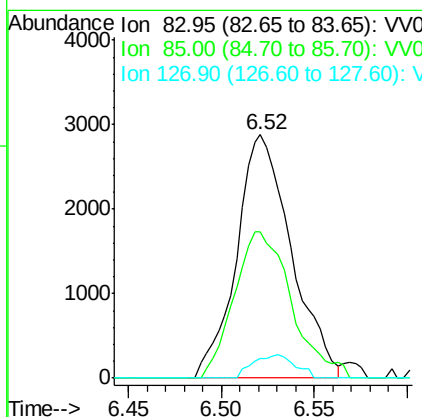
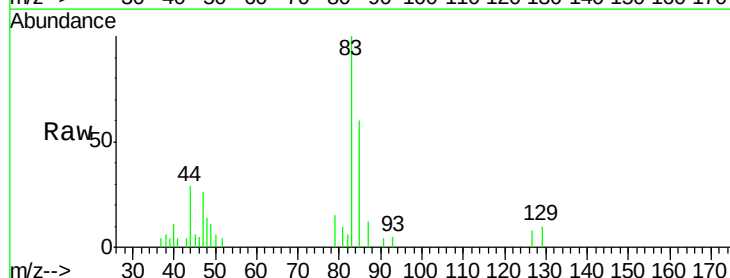
Manual Integrations
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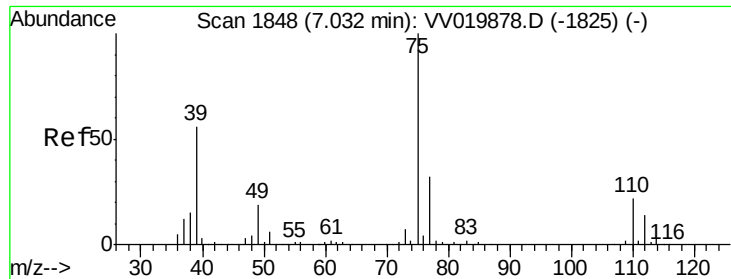
MMDadoda
 1/4/2021 11:41:48 AM



#38
 Bromodichloromethane
 Concen: 0.228 ug/L
 RT: 6.52 min Scan# 1689
 Delta R.T. 0.01 min
 Lab File: VV019881.D
 Acq: 31 Dec 2020 14:51

Tgt Ion: 83 Resp: 5912
 Ion Ratio Lower Upper
 83 100
 85 59.9 45.9 85.3
 127 8.1 6.2 9.2





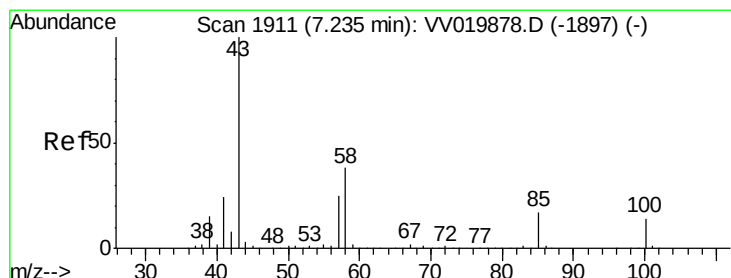
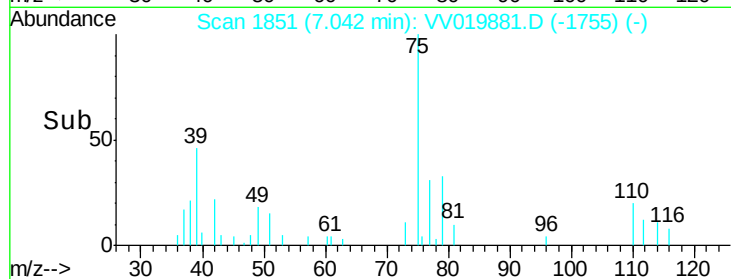
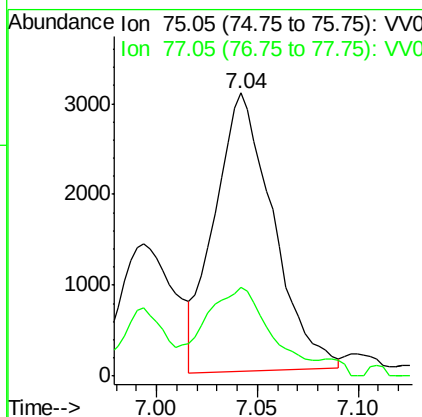
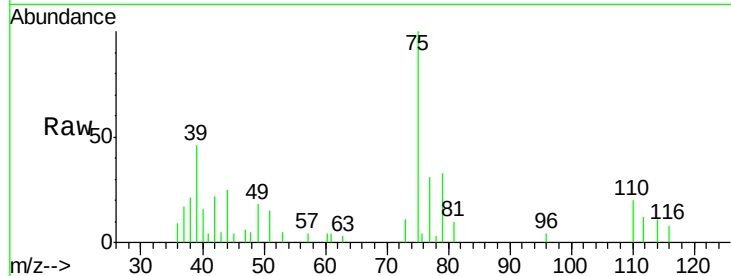
#39
 cis-1,3-Dichloropropene
 Concen: 0.214 ug/L
 RT: 7.04 min Scan# 1851
 Delta R.T. 0.01 min
 Lab File: VV019881.D
 Acq: 31 Dec 2020 14:51

Instrument :
 MSVOA_V
 ClientSampleID :
 MDL-WATER-06

Tot Ion: 75 Resp: 6187
 Ion Ratio Lower Upper
 75 100
 77 31.2 21.0 39.0

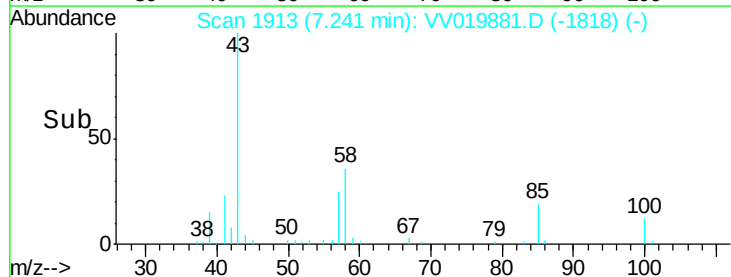
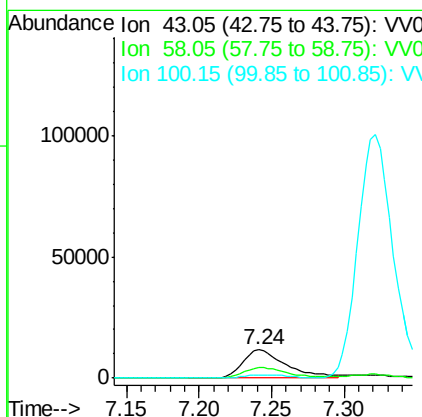
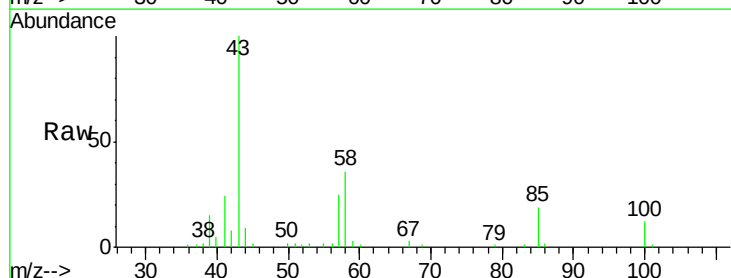
Manual Integrations
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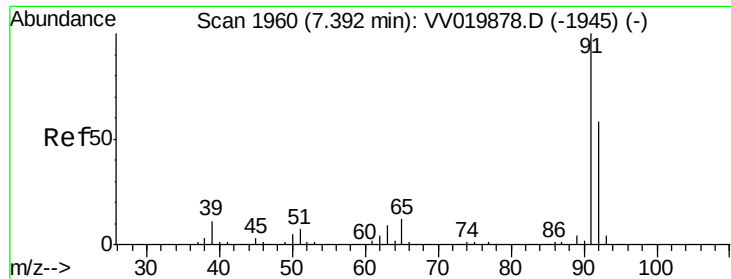
MMDadoda
 1/4/2021 11:41:48 AM



#40
 4-Methyl-2-pentanone
 Concen: 2.044 ug/L
 RT: 7.24 min Scan# 1913
 Delta R.T. 0.01 min
 Lab File: VV019881.D
 Acq: 31 Dec 2020 14:51

Tgt Ion: 43 Resp: 24313
 Ion Ratio Lower Upper
 43 100
 58 37.6 30.0 45.0
 100 0.0 11.4 17.0#





#42

Toluene

Concen: 0.229 ug/L

RT: 7.40 min Scan# 1962

Delta R.T. 0.01 min

Lab File: VV019881.D

Acq: 31 Dec 2020 14:51

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-06

Tot Ion: 91 Resp: 19503

Ion Ratio Lower Upper

91 100

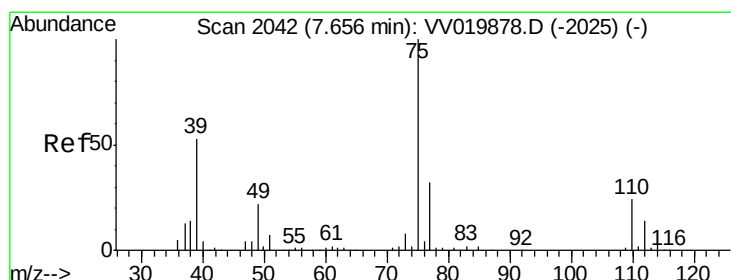
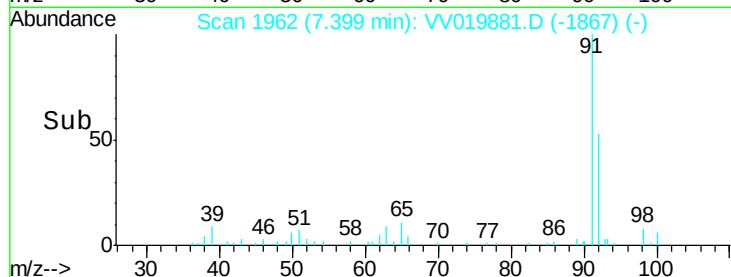
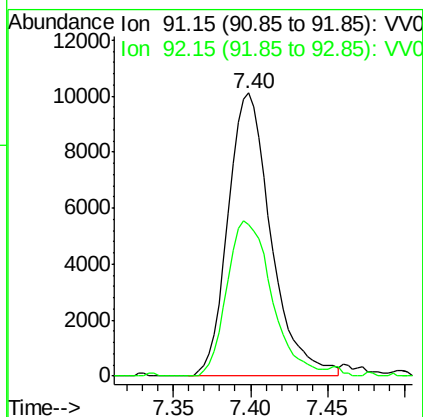
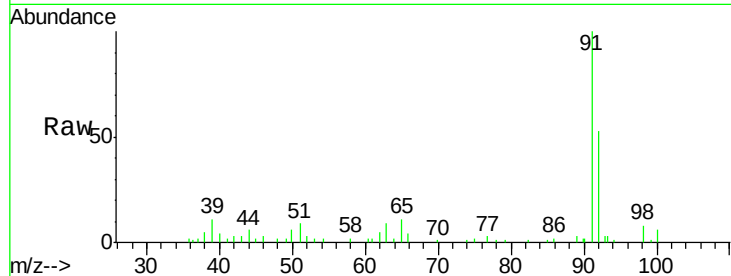
92 53.5 40.9 76.0

Manual Integrations

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MMDadoda

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#44

trans-1,3-Dichloropropene

Concen: 0.291 ug/L

RT: 7.66 min Scan# 2044

Delta R.T. 0.01 min

Lab File: VV019881.D

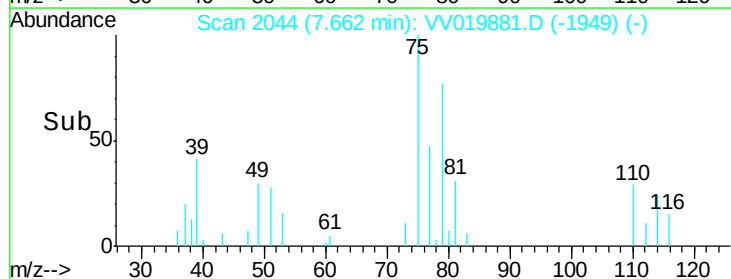
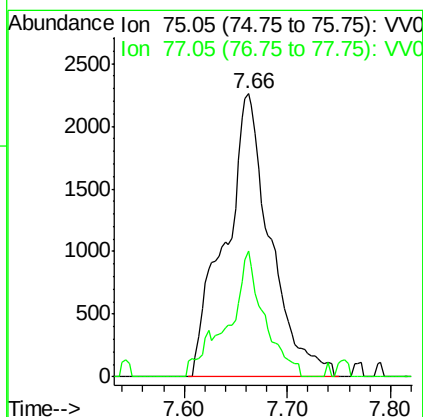
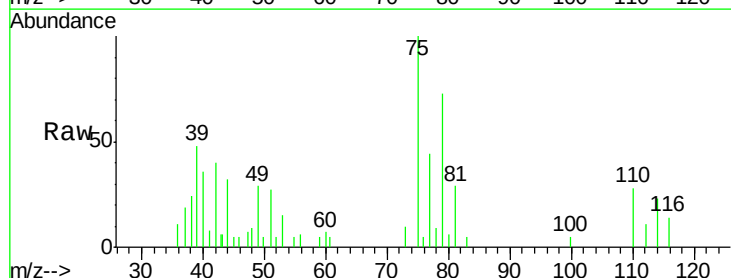
Acq: 31 Dec 2020 14:51

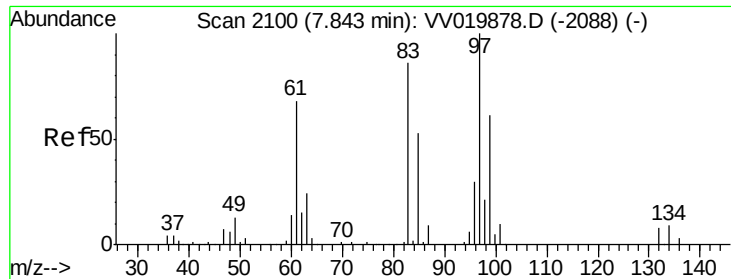
Tgt Ion: 75 Resp: 6896

Ion Ratio Lower Upper

75 100

77 44.5 21.1 39.3#





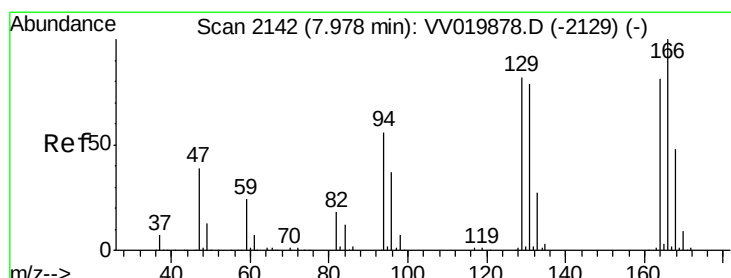
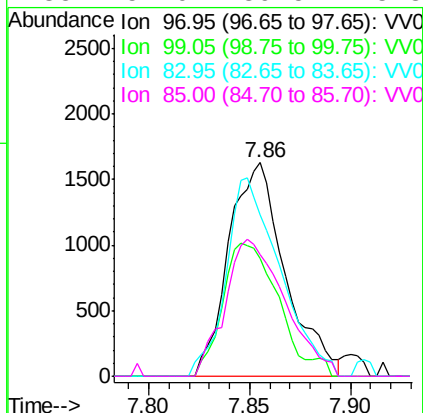
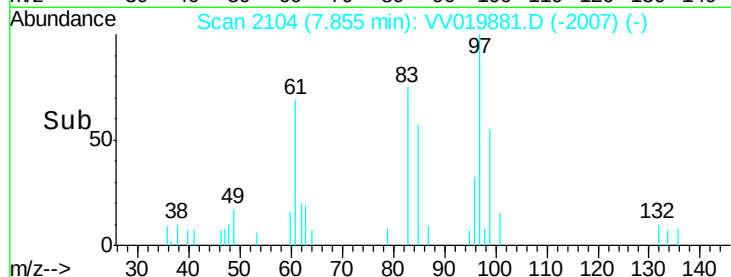
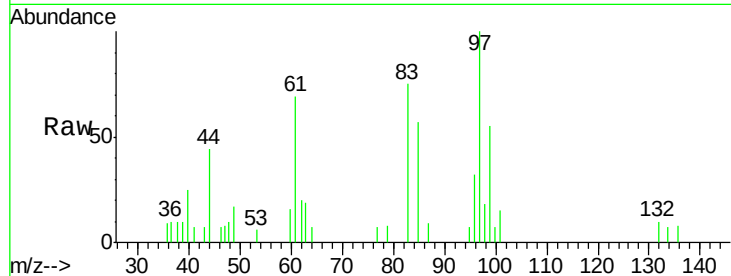
#45
1,1,2-Trichloroethane
Concen: 0.234 ug/L
RT: 7.86 min Scan# 2104
Delta R.T. 0.01 min
Lab File: VV019881.D
Acq: 31 Dec 2020 14:51

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-06

Tot Ion:	97	Resp:	3188
Ion	Ratio	Lower	Upper
97	100		
99	54.9	42.4	78.8
83	75.4	59.4	110.4
85	57.0	39.5	73.3

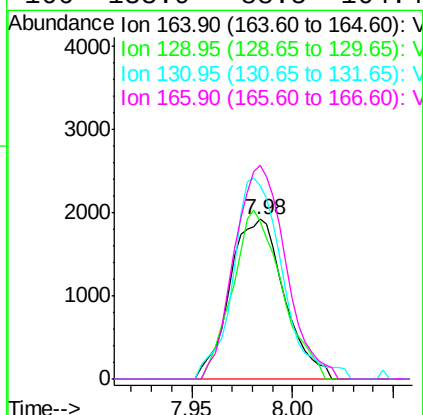
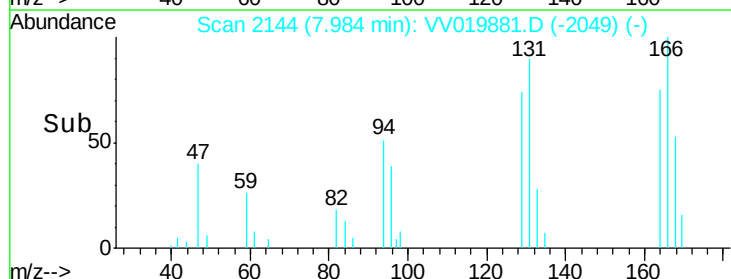
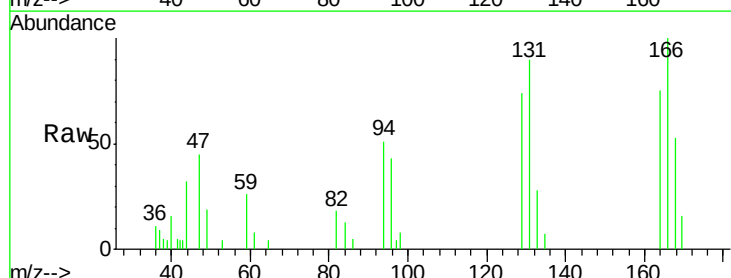
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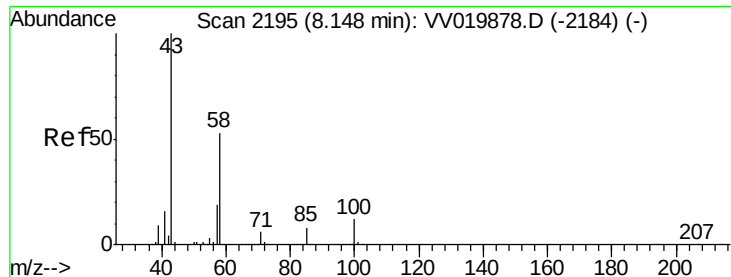
MMDadoda
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#47
Tetrachloroethene
Concen: 0.238 ug/L
RT: 7.98 min Scan# 2144
Delta R.T. 0.01 min
Lab File: VV019881.D
Acq: 31 Dec 2020 14:51

Tgt Ion:	164	Resp:	3632
Ion	Ratio	Lower	Upper
164	100		
129	98.5	72.1	133.9
131	121.0	68.9	127.9
166	133.9	88.5	164.4





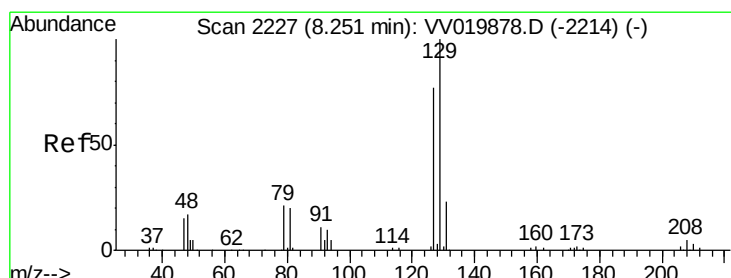
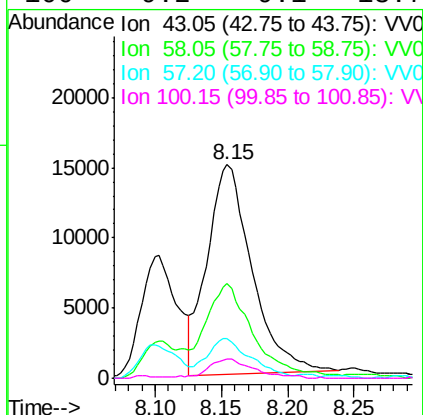
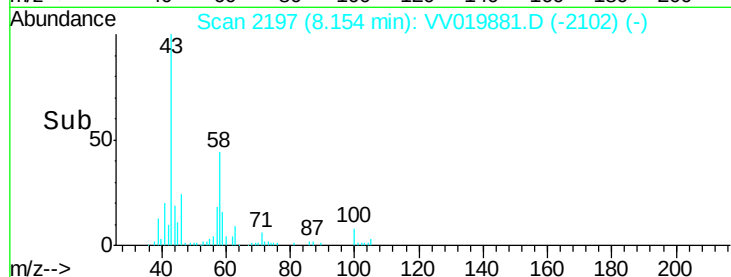
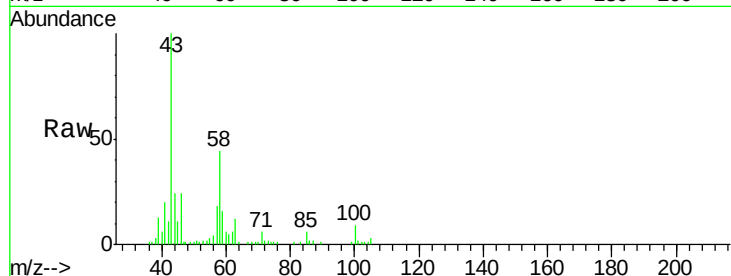
#48
2-Hexanone
Concen: 4.236 ug/L
RT: 8.15 min Scan# 2197
Delta R.T. 0.01 min
Lab File: VV019881.D
Acq: 31 Dec 2020 14:51

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-06

Tot Ion:	43	Resp:	34921
Ion Ratio	Lower	Upper	
43	100		
58	45.6	42.4	63.6
57	18.8	14.8	22.2
100	9.2	9.1	13.7

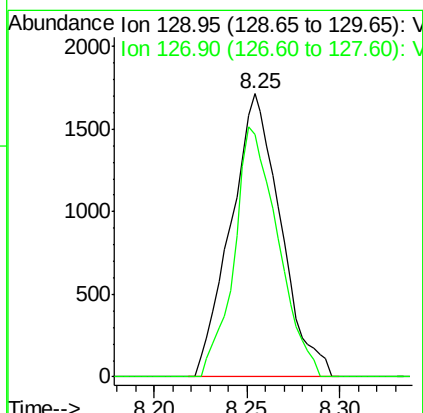
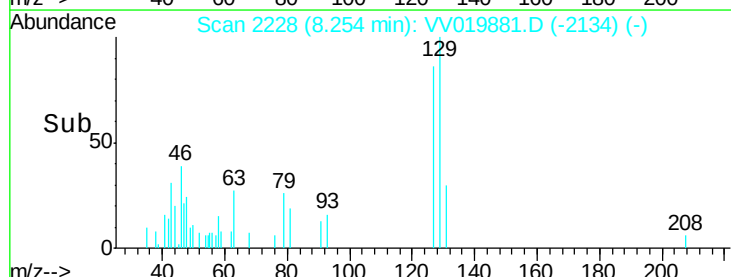
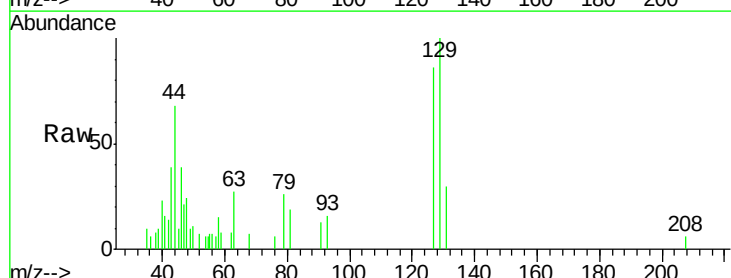
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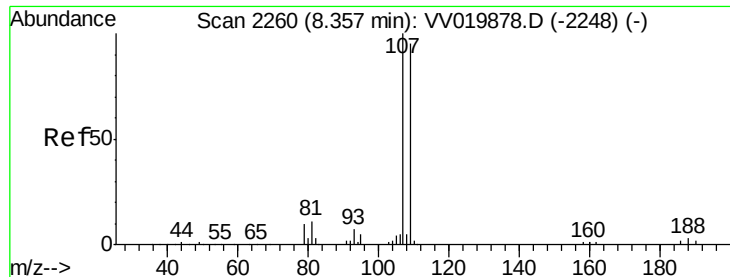
MMDadoda
1/4/2021 11:41:48 AM



#49
Dibromochloromethane
Concen: 0.217 ug/L
RT: 8.25 min Scan# 2228
Delta R.T. 0.00 min
Lab File: VV019881.D
Acq: 31 Dec 2020 14:51

Tgt Ion:	129	Resp:	3197
Ion Ratio	Lower	Upper	
129	100		
127	85.9	55.0	102.2





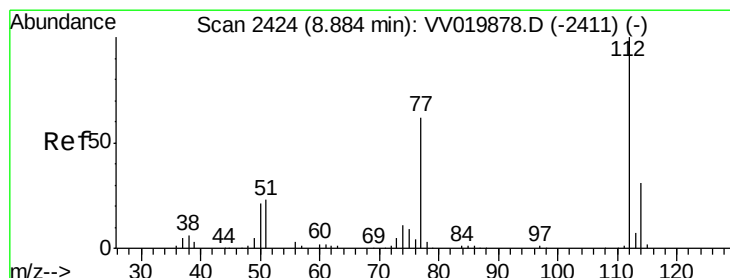
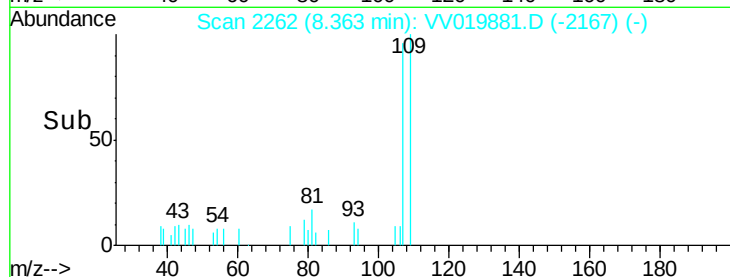
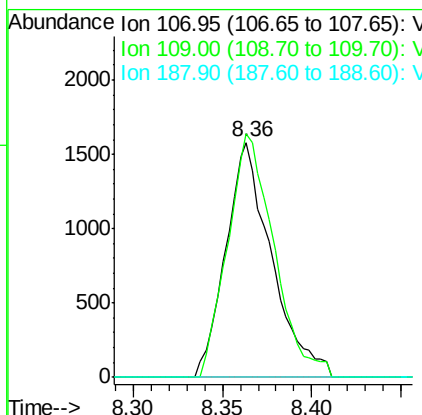
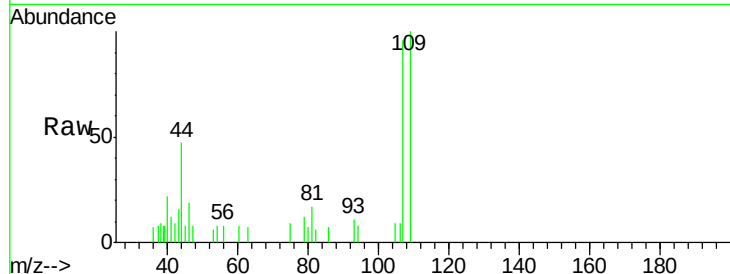
#50
1,2-Dibromoethane
Concen: 0.227 ug/L
RT: 8.36 min Scan# 2262
Delta R.T. 0.01 min
Lab File: VV019881.D
Acq: 31 Dec 2020 14:51

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-06

Tot Ion	Ratio	Resp	Lower	Upper
107	100	2811		
109	103.7	63.8	118.4	
188	0.0	2.5	3.7#	

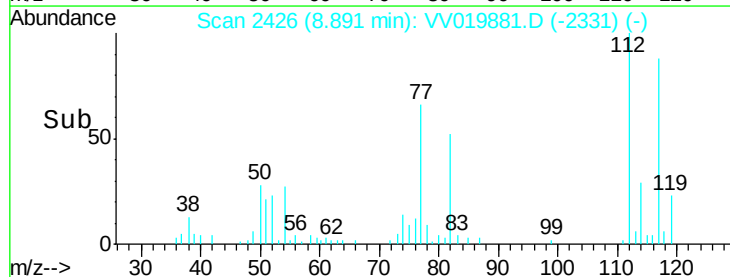
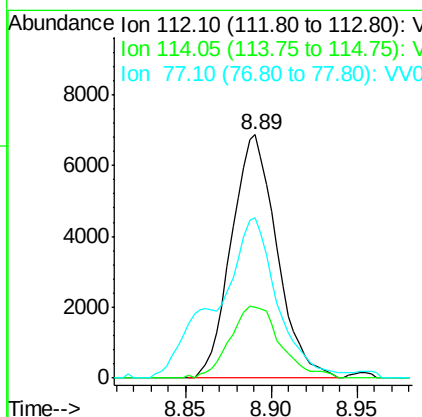
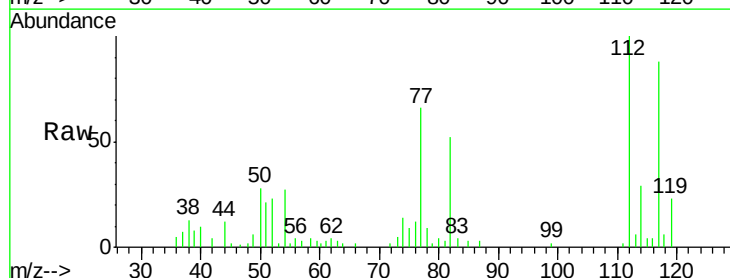
Manual Integrations
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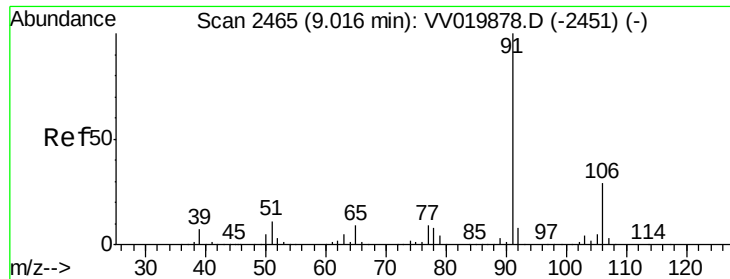
MMDadoda
1/4/2021 11:41:48 AM



#51
Chlorobenzene
Concen: 0.234 ug/L
RT: 8.89 min Scan# 2426
Delta R.T. 0.01 min
Lab File: VV019881.D
Acq: 31 Dec 2020 14:51

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	12605		
114	29.2	21.8	40.6	
77	65.7	51.0	76.4	





#52

Ethylbenzene

Concen: 0.219 ug/L

RT: 9.02 min Scan# 2467

Delta R.T. 0.01 min

Lab File: VV019881.D

Acq: 31 Dec 2020 14:51

Tot Ion: 91 Resp: 20712

Ion Ratio Lower Upper

91 100

106 30.8 20.9 38.7

Instrument :

MSVOA_V

ClientSampleId :

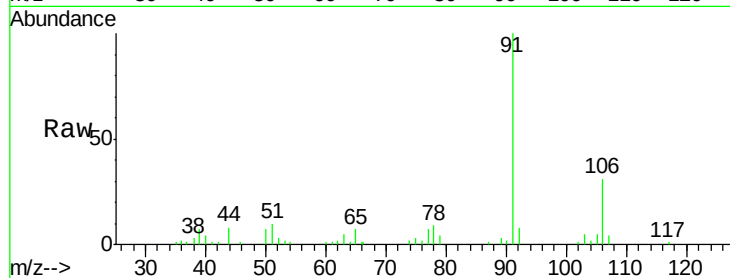
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Abundance Ion 91.15 (90.85 to 91.85): VV019881.D (-2467) (-)

Ion 106.15 (105.85 to 106.85): VV019881.D (-2467) (-)

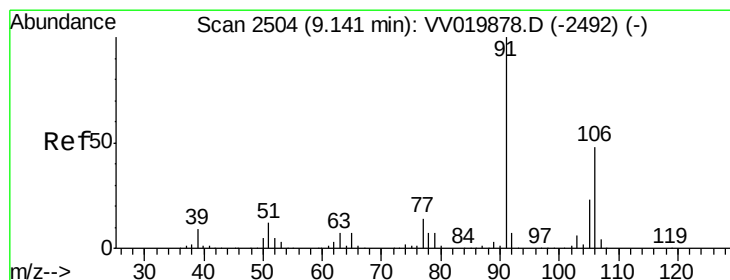
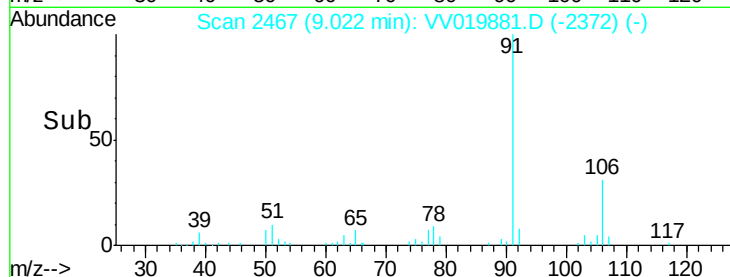
9.02

10000

5000

0

Time-->



#53

m,p-xylene

Concen: 0.226 ug/L

RT: 9.15 min Scan# 2506

Delta R.T. 0.01 min

Lab File: VV019881.D

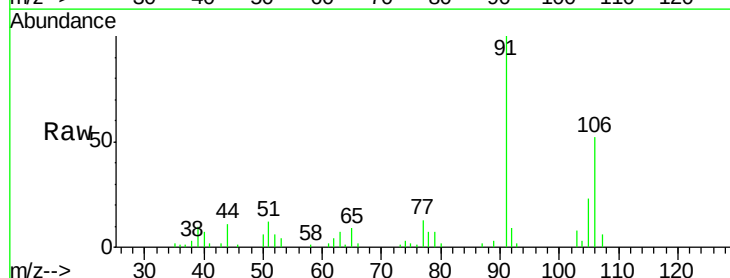
Acq: 31 Dec 2020 14:51

Tgt Ion: 106 Resp: 7822

Ion Ratio Lower Upper

106 100

91 191.1 147.1 273.1



Abundance Ion 106.15 (105.85 to 106.85): VV019881.D (-2506) (-)

Ion 91.15 (90.85 to 91.85): VV019881.D (-2506) (-)

9.15

10000

8000

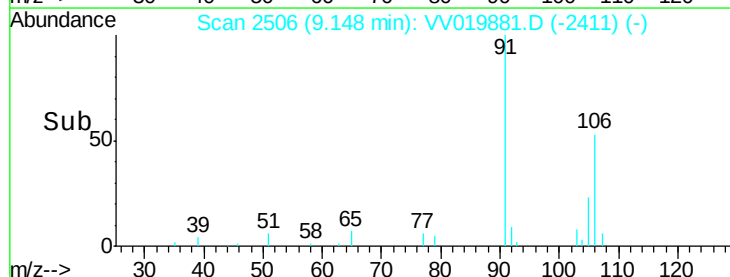
6000

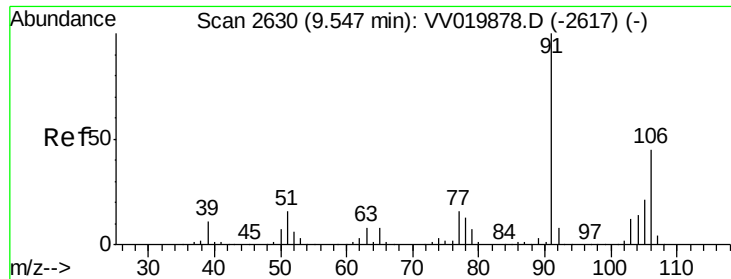
4000

2000

0

Time-->





#54

o-xylene

Concen: 0.210 ug/L

RT: 9.55 min Scan# 2631

Delta R.T. 0.00 min

Lab File: VV019881.D

Acq: 31 Dec 2020 14:51

Instrument :

MSVOA_V

ClientSampleID :

MDL-WATER-06

Tot Ion:106 Resp: 6963

Ion Ratio Lower Upper

106 100

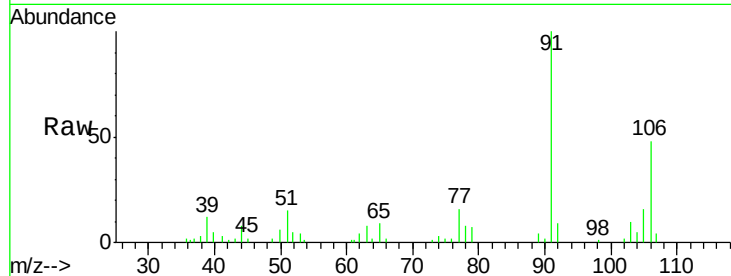
91 210.0 155.8 289.3

Manual Integrations

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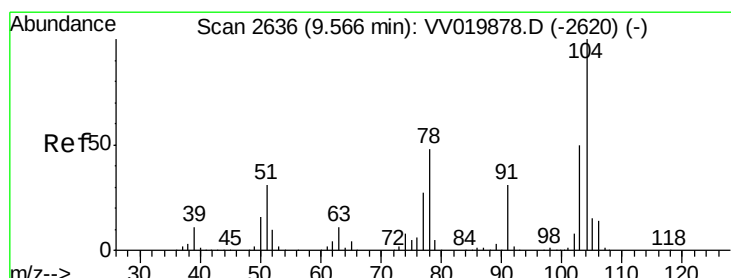
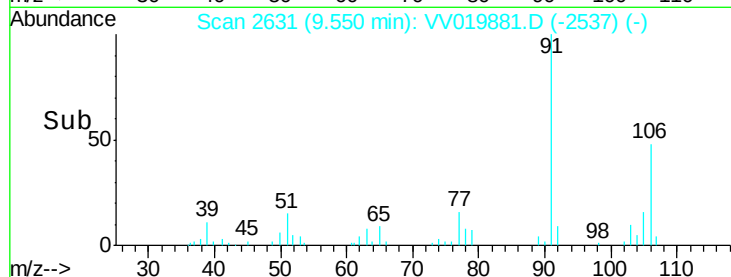
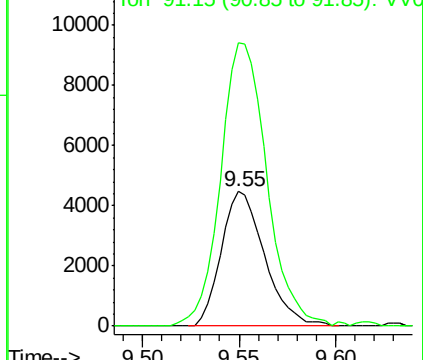
MMDadoda

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Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 0.191 ug/L

RT: 9.57 min Scan# 2638

Delta R.T. 0.01 min

Lab File: VV019881.D

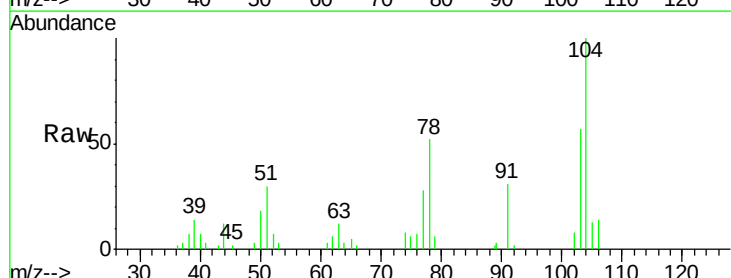
Acq: 31 Dec 2020 14:51

Tgt Ion:104 Resp: 10687

Ion Ratio Lower Upper

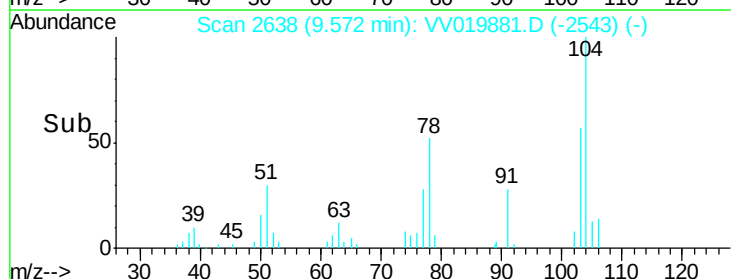
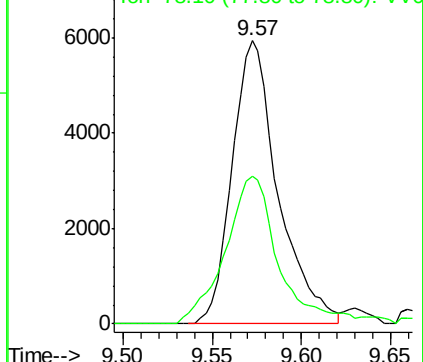
104 100

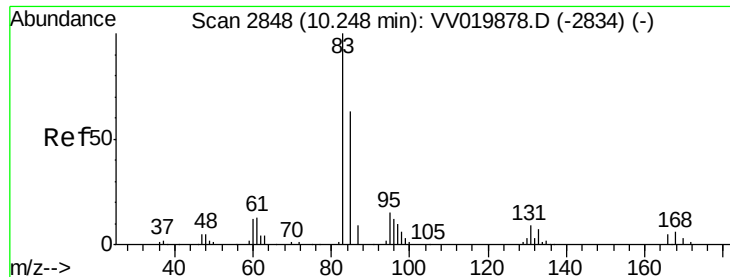
78 52.3 33.7 62.7



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





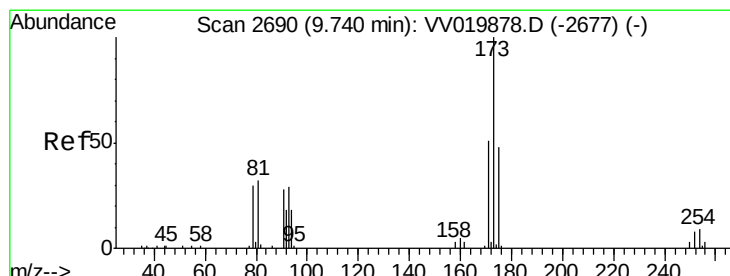
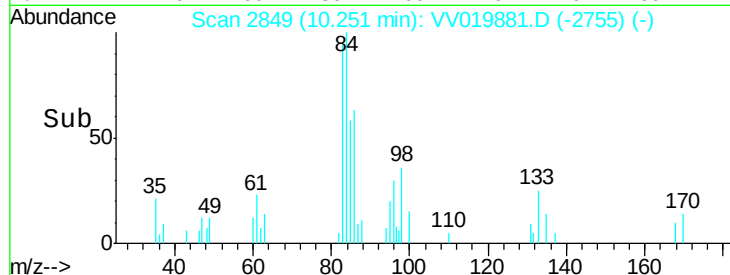
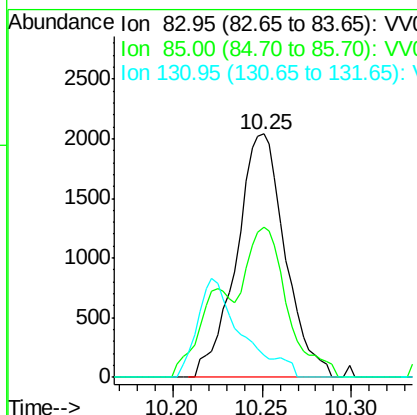
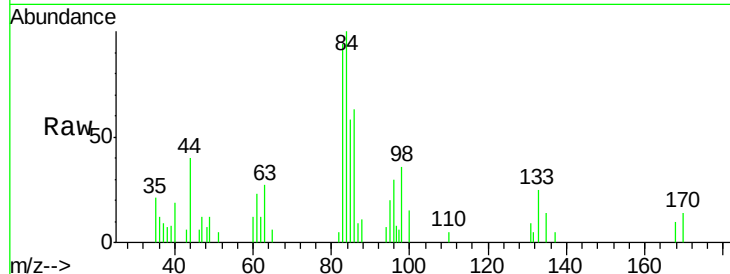
#57
 1,1,2,2-Tetrachloroethane
 Concen: 0.270 ug/L
 RT: 10.25 min Scan# 2849
 Delta R.T. 0.00 min
 Lab File: VV019881.D
 Acq: 31 Dec 2020 14:51

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-06

Tot Ion	Ratio	Lower	Upper
83	100		
85	61.5	44.3	82.3
131	9.2	7.4	11.2

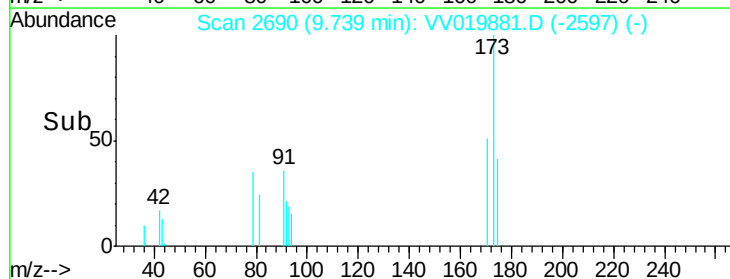
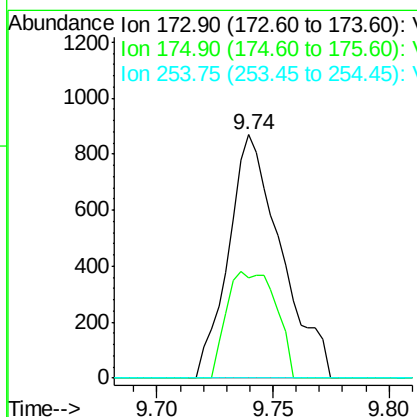
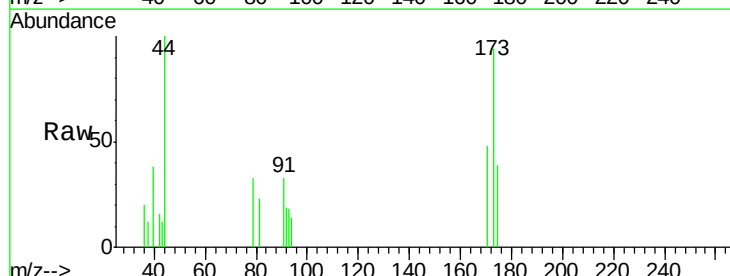
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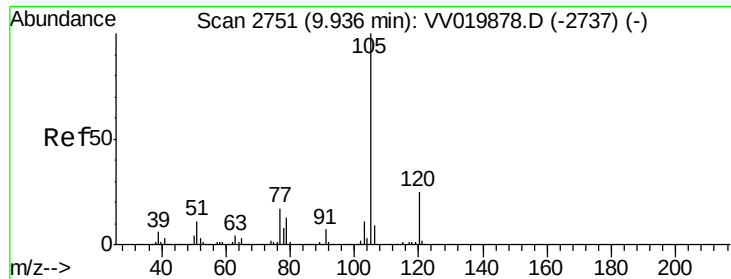
MMDadoda
 1/4/2021 11:41:48 AM



#59
 Bromoform
 Concen: 0.215 ug/L
 RT: 9.74 min Scan# 2690
 Delta R.T. -0.00 min
 Lab File: VV019881.D
 Acq: 31 Dec 2020 14:51

Tgt Ion	Ratio	Lower	Upper
173	100		
175	41.0	38.3	57.5
254	0.0	6.4	9.6#





#60

Isopropylbenzene

Concen: 0.213 ug/L

RT: 9.94 min Scan# 2752

Delta R.T. 0.00 min

Lab File: VV019881.D

Acq: 31 Dec 2020 14:51

Instrument :

MSVOA_V

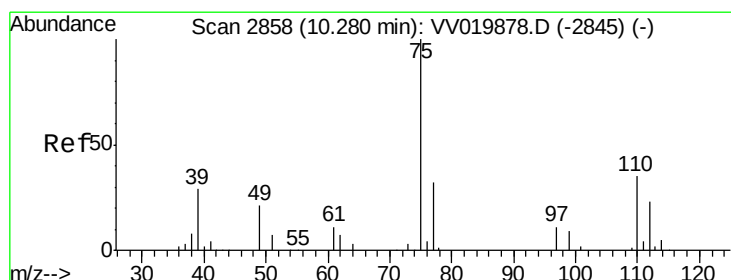
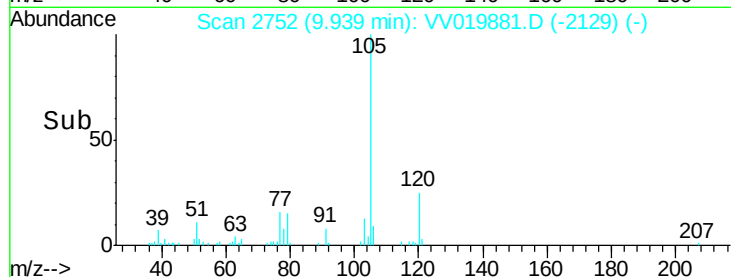
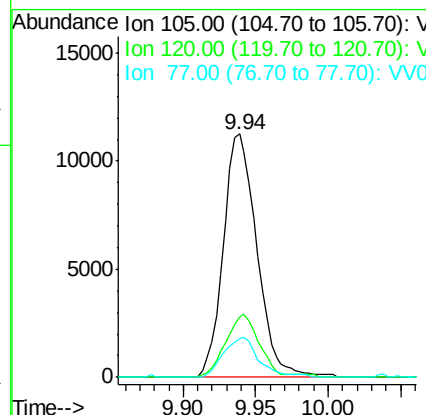
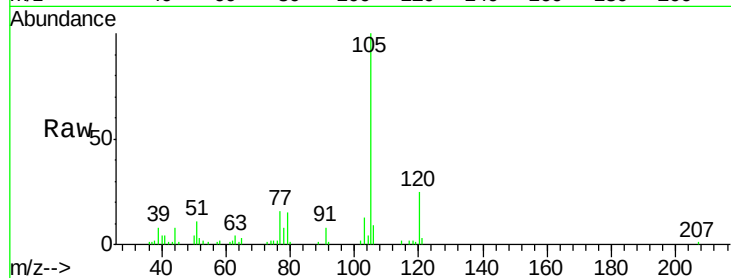
ClientSampleId :

MDL-WATER-06

Tot Ion:	105	Resp:	18167
Ion Ratio	Lower	Upper	
105	100		
120	25.8	20.4	30.6
77	17.5	13.7	20.5

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#61

1,2,3-Trichloropropane

Concen: 0.246 ug/L

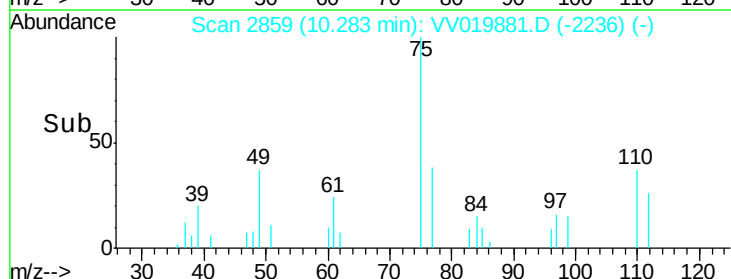
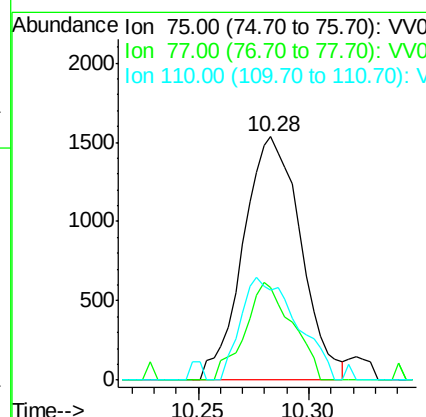
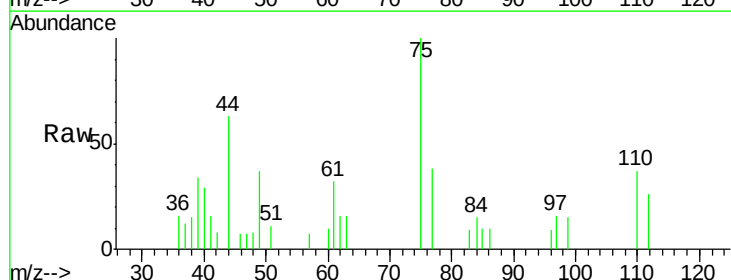
RT: 10.28 min Scan# 2859

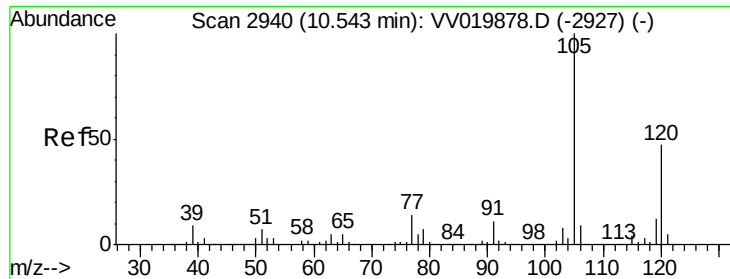
Delta R.T. 0.00 min

Lab File: VV019881.D

Acq: 31 Dec 2020 14:51

Tgt Ion:	75	Resp:	2784
Ion Ratio	Lower	Upper	
75	100		
77	32.9	25.6	38.4
110	41.1	30.5	45.7





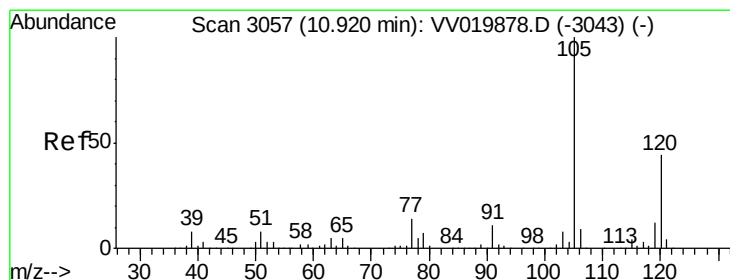
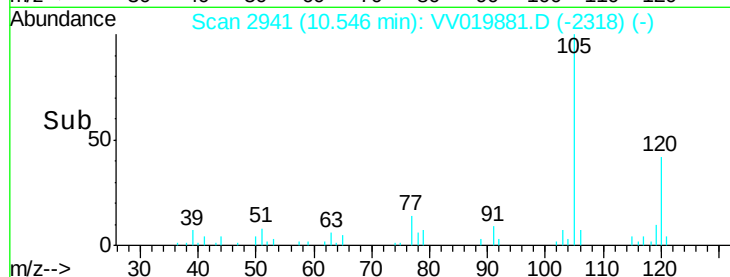
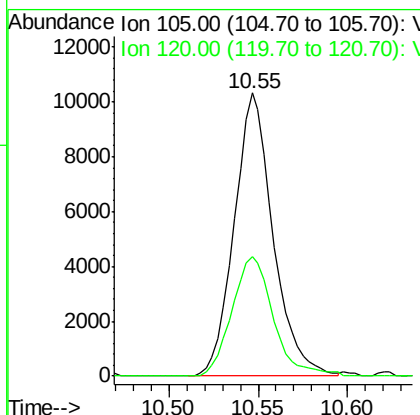
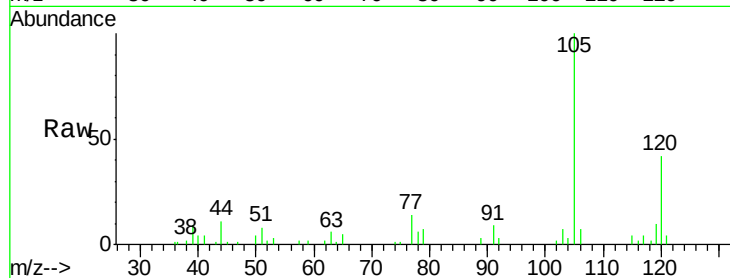
#62
 1,3,5-Trimethylbenzene
 Concen: 0.223 ug/L
 RT: 10.55 min Scan# 2941
 Delta R.T. 0.00 min
 Lab File: VV019881.D
 Acq: 31 Dec 2020 14:51

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-06

Tot Ion:105 Resp: 15705
 Ion Ratio Lower Upper
 105 100
 120 44.7 37.8 56.6

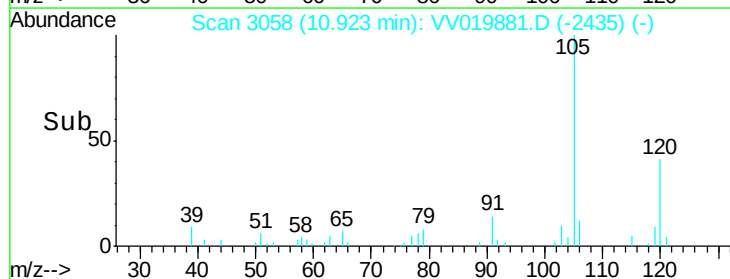
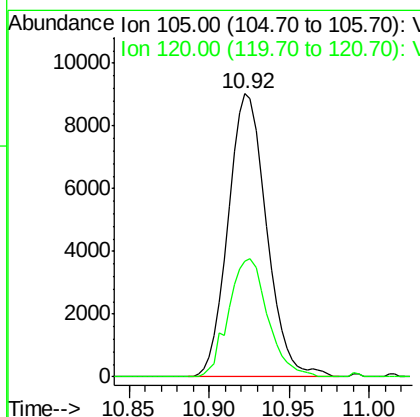
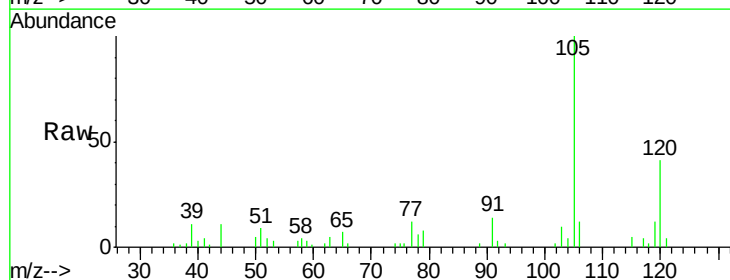
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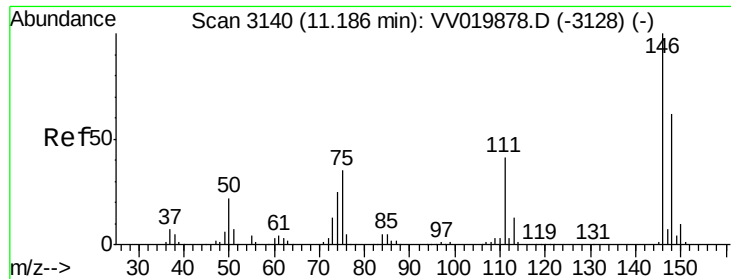
MMDadoda
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#63
 1,2,4-Trimethylbenzene
 Concen: 0.206 ug/L
 RT: 10.92 min Scan# 3058
 Delta R.T. 0.00 min
 Lab File: VV019881.D
 Acq: 31 Dec 2020 14:51

Tgt Ion:105 Resp: 14776
 Ion Ratio Lower Upper
 105 100
 120 42.5 34.9 52.3





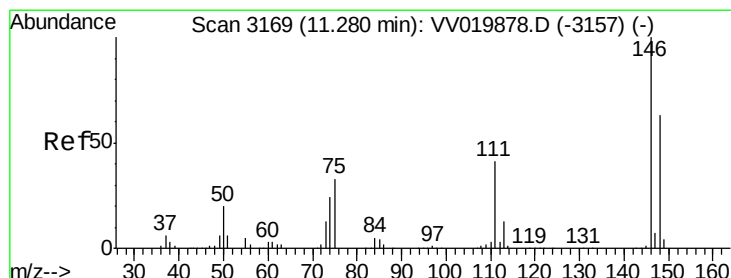
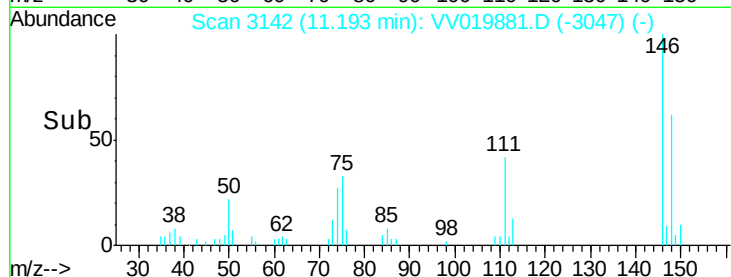
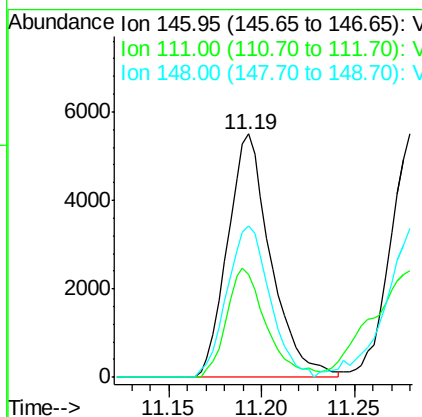
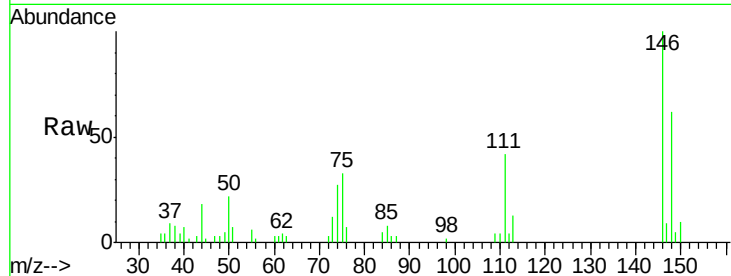
#64
 1,3-Dichlorobenzene
 Concen: 0.238 ug/L
 RT: 11.19 min Scan# 3142
 Delta R.T. 0.01 min
 Lab File: VV019881.D
 Acq: 31 Dec 2020 14:51

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-06

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.3	30.4	56.5
148	62.1	45.8	85.2

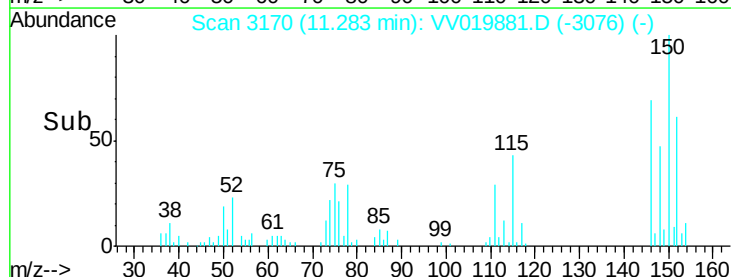
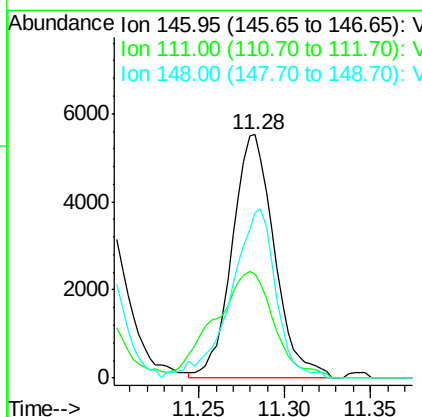
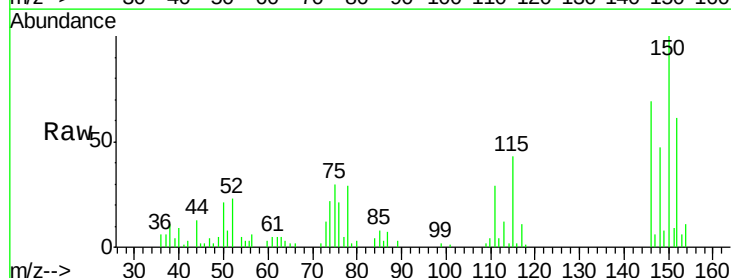
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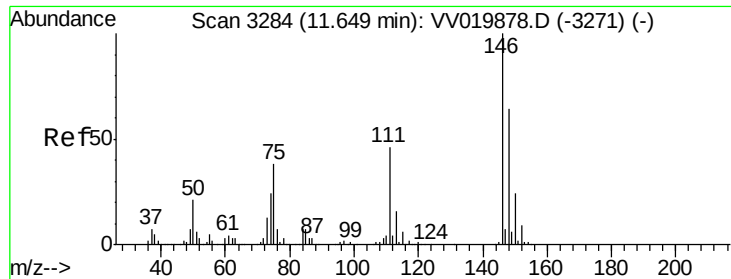
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#65
 1,4-Dichlorobenzene
 Concen: 0.252 ug/L
 RT: 11.28 min Scan# 3170
 Delta R.T. 0.00 min
 Lab File: VV019881.D
 Acq: 31 Dec 2020 14:51

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.9	29.7	55.1
148	67.8	45.1	83.7





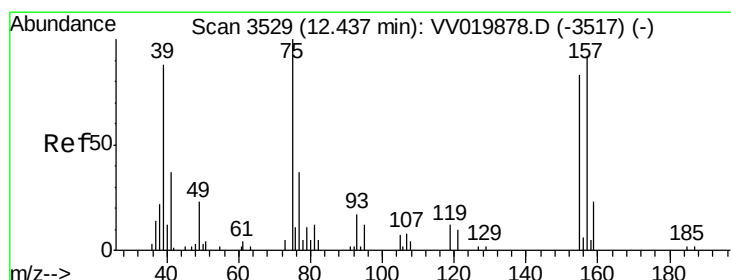
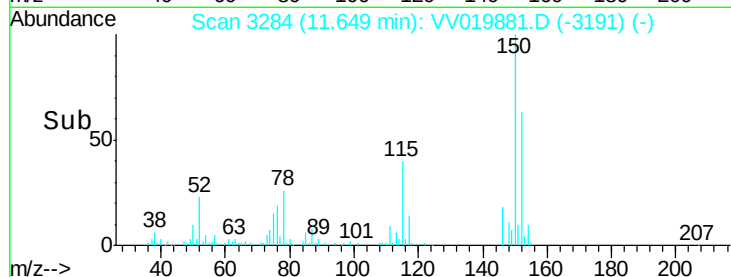
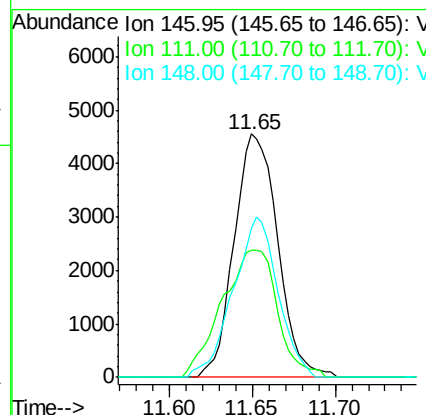
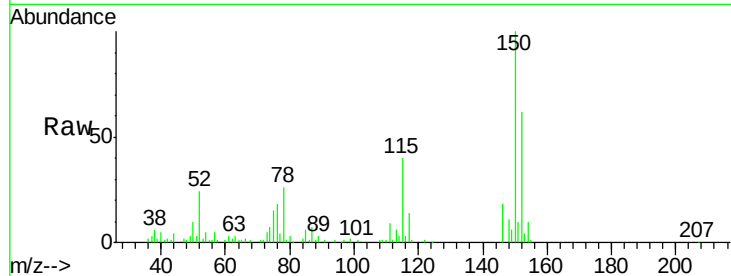
#67
 1,2-Dichlorobenzene
 Concen: 0.243 ug/L
 RT: 11.65 min Scan# 3284
 Delta R.T. -0.00 min
 Lab File: VV019881.D
 Acq: 31 Dec 2020 14:51

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-06

Tot Ion	Ratio	Lower	Upper
146	100		
111	52.4	37.7	56.5
148	61.4	50.6	75.8

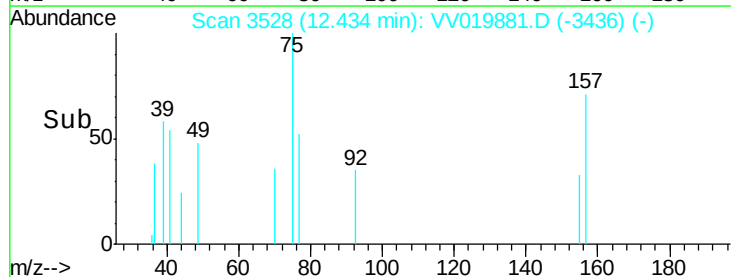
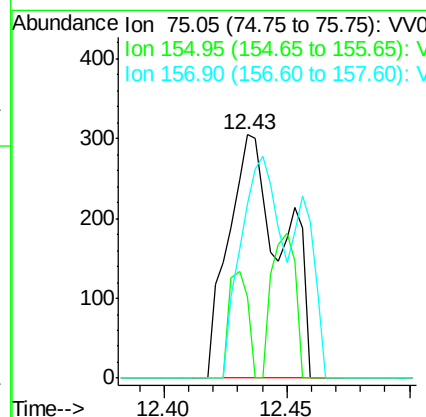
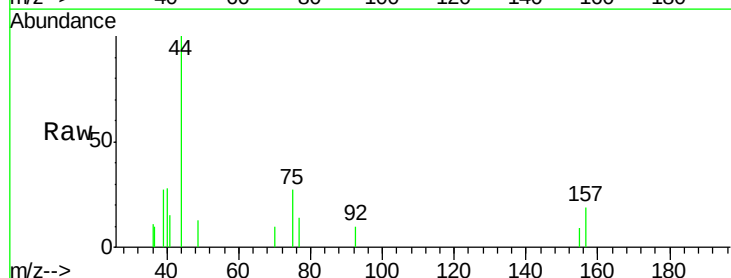
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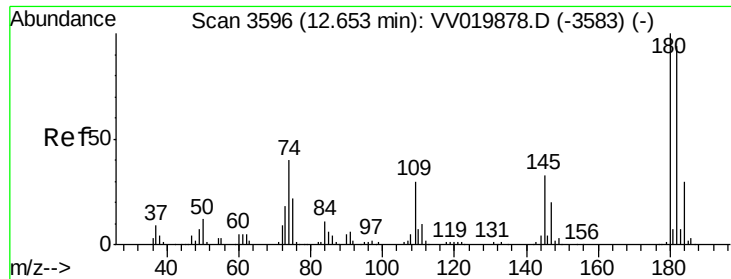
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#68
 1,2-Dibromo-3-chloropropane
 Concen: 0.200 ug/L m
 RT: 12.43 min Scan# 3528
 Delta R.T. -0.00 min
 Lab File: VV019881.D
 Acq: 31 Dec 2020 14:51

Tgt Ion	Ratio	Lower	Upper
75	100		
155	33.4	56.5	84.7#
157	71.5	74.2	111.2#





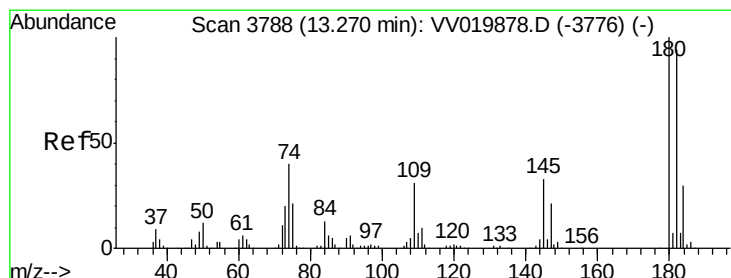
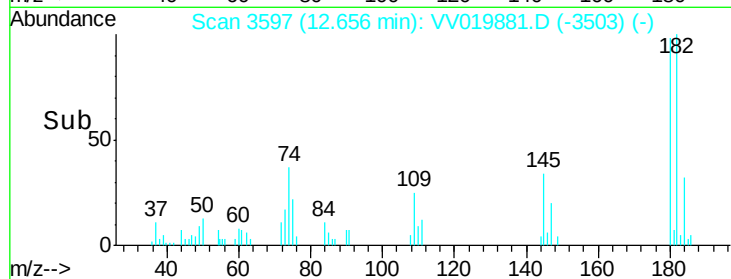
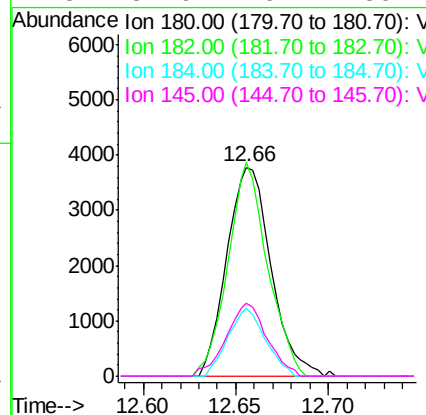
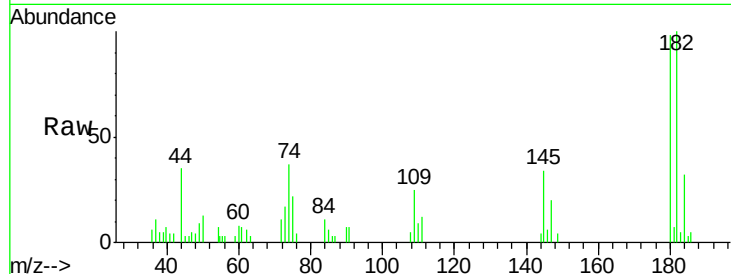
#69
 1,3,5-Trichlorobenzene
 Concen: 0.226 ug/L
 RT: 12.66 min Scan# 3597
 Delta R.T. 0.00 min
 Lab File: VV019881.D
 Acq: 31 Dec 2020 14:51

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-06

Tot Ion	Ratio	Lower	Upper
180	100		
182	90.6	75.9	113.9
184	27.5	23.5	35.3
145	31.9	26.2	39.2

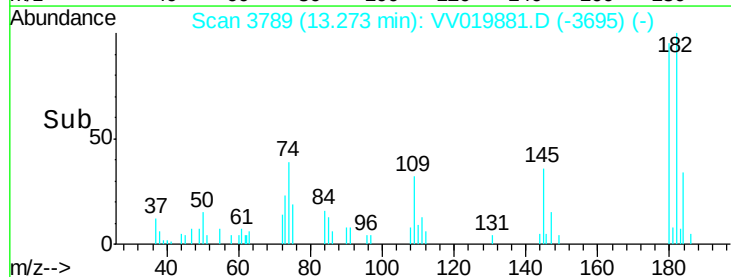
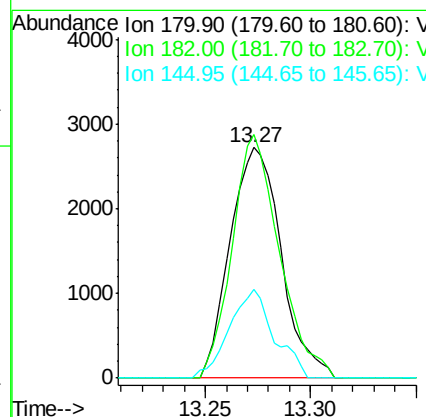
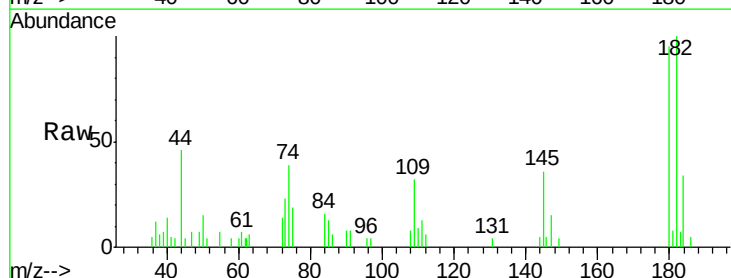
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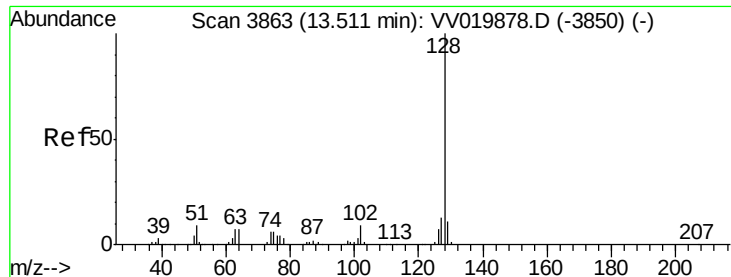
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#70
 1,2,4-trichlorobenzene
 Concen: 0.203 ug/L
 RT: 13.27 min Scan# 3789
 Delta R.T. 0.00 min
 Lab File: VV019881.D
 Acq: 31 Dec 2020 14:51

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.4	75.9	113.9
145	33.6	26.6	39.8





#71

Naphthalene

Concen: 0.162 ug/L

RT: 13.51 min Scan# 3864

Delta R.T. 0.00 min

Lab File: VV019881.D

Acq: 31 Dec 2020 14:51

Instrument :

MSVOA_V

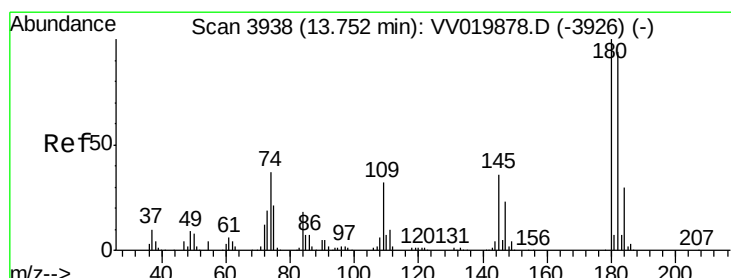
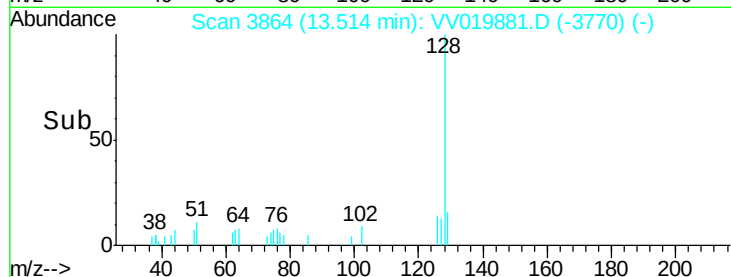
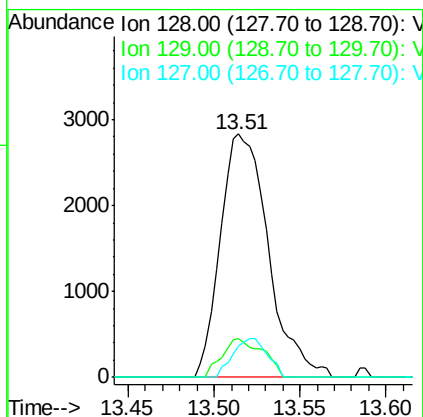
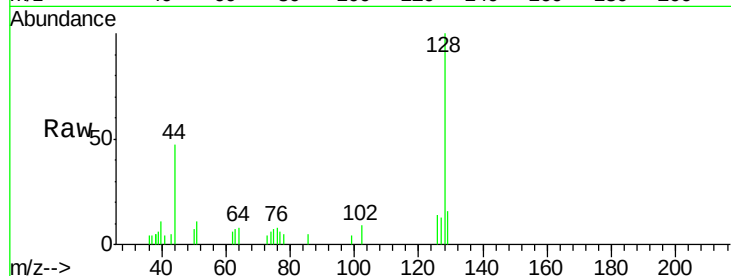
ClientSampleId :

MDL-WATER-06

Tot Ion	Ratio	Lower	Upper
128	100		
129	13.6	8.5	12.7#
127	11.4	10.2	15.4

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#72

1,2,3-Trichlorobenzene

Concen: 0.202 ug/L

RT: 13.75 min Scan# 3938

Delta R.T. -0.00 min

Lab File: VV019881.D

Acq: 31 Dec 2020 14:51

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.2	74.6	112.0
145	34.5	28.8	43.2

