

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110320\
 Data File : VX019228.D
 Acq On : 03 Nov 2020 12:40
 Operator : JC/MD
 Sample : L4485-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-04

Manual Integrations
 APPROVED

MMDadoda
 11/5/2020 10:35:36 AM

Quant Time: Nov 04 02:13:52 2020

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\SFAMXLM110220WMA.M

Quant Title : VOC Analysis

QLast Update : Wed Nov 04 01:20:42 2020

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.83	114	434815	50.00	ug/L	0.00
28) Chlorobenzene-d5	10.09	117	399203	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	12.06	152	186724	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	166350	44.44	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	88.88%
7) Chloroethane-d5	1.70	69	134287	48.31	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	96.62%
11) 1,1-Dichloroethene-d2	2.34	63	227188	36.78	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	73.56%
21) 2-Butanone-d5	4.53	46	210820	110.39	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	110.39%
24) Chloroform-d	5.14	84	282400	46.32	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.64%
26) 1,2-Dichloroethane-d4	6.03	65	197355	45.56	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.12%
32) Benzene-d6	6.05	84	599317	48.36	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.72%
36) 1,2-Dichloropropane-d6	7.37	67	181025	49.48	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.96%
41) Toluene-d8	8.70	98	562794	44.73	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.46%
43) trans-1,3-Dichloropropene-	8.99	79	92161	47.49	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.98%
47) 2-Hexanone-d5	9.43	63	170354	112.71	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	112.71%
56) 1,1,2,2-Tetrachloroethane-	11.23	84	223463	51.77	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	103.54%
66) 1,2-Dichlorobenzene-d4	12.36	152	191000	50.95	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.90%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	6231	2.261 ug/L	99
3) Chloromethane	1.31	50	6848	2.446 ug/L	95
5) Vinyl chloride	1.39	62	8109	2.570 ug/L #	55
6) Bromomethane	1.64	94	5121	2.456 ug/L	100
8) Chloroethane	1.72	64	5075	2.580 ug/L	95
9) Trichlorofluoromethane	1.92	101	10818	2.311 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.37	101	8103	3.001 ug/L #	79
12) 1,1-Dichloroethene	2.36	96	7545	2.879 ug/L #	1
13) Acetone	2.43	43	6042	5.119 ug/L	96
14) Carbon disulfide	2.56	76	17366	2.196 ug/L	98
15) Methyl Acetate	2.75	43	6979	2.710 ug/L	95
16) Methylene chloride	2.84	84	7596	2.600 ug/L	97
17) trans-1,2-Dichloroethene	3.15	96	6487	2.303 ug/L	90
18) Methyl tert-butyl Ether	3.17	73	20153	2.263 ug/L	96
19) 1,1-Dichloroethane	3.67	63	11442	2.286 ug/L	98
20) cis-1,2-Dichloroethene	4.56	96	7001	2.263 ug/L	99
22) 2-Butanone	4.65	43	8906	4.778 ug/L	99

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 Quant Title : VOC Analysis
 QLast Update : Wed Nov 04 01:20:42 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.98	128	3471	2.227	ug/L #	93
25) Chloroform	5.17	83	22581	4.298	ug/L	98
27) 1,2-Dichloroethane	6.16	62	10245	2.477	ug/L	100
29) Cyclohexane	5.54	56	10210	2.222	ug/L	99
30) 1,1,1-Trichloroethane	5.46	97	10936	2.272	ug/L	100
31) Carbon tetrachloride	5.75	117	9067m	2.193	ug/L	
33) Benzene	6.12	78	27354	2.387	ug/L	100
34) Trichloroethene	7.19	95	7232	2.312	ug/L	95
35) Methylcyclohexane	7.44	83	10337	2.088	ug/L	98
37) 1,2-Dichloropropane	7.49	63	6509	2.286	ug/L #	97
38) Bromodichloromethane	7.87	83	8680	2.192	ug/L	97
39) cis-1,3-Dichloropropene	8.42	75	10520	2.224	ug/L	99
40) 4-Methyl-2-pentanone	8.62	43	17347	4.982	ug/L	99
42) Toluene	8.76	91	36907	2.960	ug/L	97
44) trans-1,3-Dichloropropene	9.02	75	9677	2.100	ug/L	91
45) 1,1,2-Trichloroethane	9.20	97	6377	2.280	ug/L	98
46) Tetrachloroethene	9.32	164	5060	2.144	ug/L	97
48) 2-Hexanone	9.48	43	15580	5.679	ug/L	97
49) Dibromochloromethane	9.56	129	6638	2.170	ug/L	97
50) 1,2-Dibromoethane	9.65	107	6854	2.343	ug/L	95
51) Chlorobenzene	10.12	112	18272	2.357	ug/L	96
52) Ethylbenzene	10.23	91	31336	2.325	ug/L	100
53) m,p-Xylene	10.34	106	11642	2.299	ug/L	97
54) o-Xylene	10.68	106	10949	2.233	ug/L	97
55) Styrene	10.70	104	17089	2.066	ug/L	98
57) 1,1,2,2-Tetrachloroethane	11.25	83	9896	2.582	ug/L #	98
59) Bromoform	10.84	173	4268	2.110	ug/L	99
60) Isopropylbenzene	11.00	105	29074	2.294	ug/L	99
61) 1,2,3-Trichloropropane	11.28	75	8331	2.619	ug/L	97
62) 1,3,5-Trimethylbenzene	11.49	105	22927	2.199	ug/L	96
63) 1,2,4-Trimethylbenzene	11.79	105	22422	2.274	ug/L	99
64) 1,3-Dichlorobenzene	12.01	146	12428	2.272	ug/L	97
65) 1,4-Dichlorobenzene	12.08	146	13106	2.361	ug/L	96
67) 1,2-Dichlorobenzene	12.38	146	12576	2.374	ug/L	99
68) 1,2-Dibromo-3-chloropropan	12.98	75	1980	2.286	ug/L	91
69) 1,3,5-Trichlorobenzene	13.15	180	7868	2.053	ug/L	99
70) 1,2,4-trichlorobenzene	13.63	180	6940	1.965	ug/L	97
71) Naphthalene	13.82	128	23399	2.049	ug/L	99
72) 1,2,3-Trichlorobenzene	14.01	180	7215	2.088	ug/L	99

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

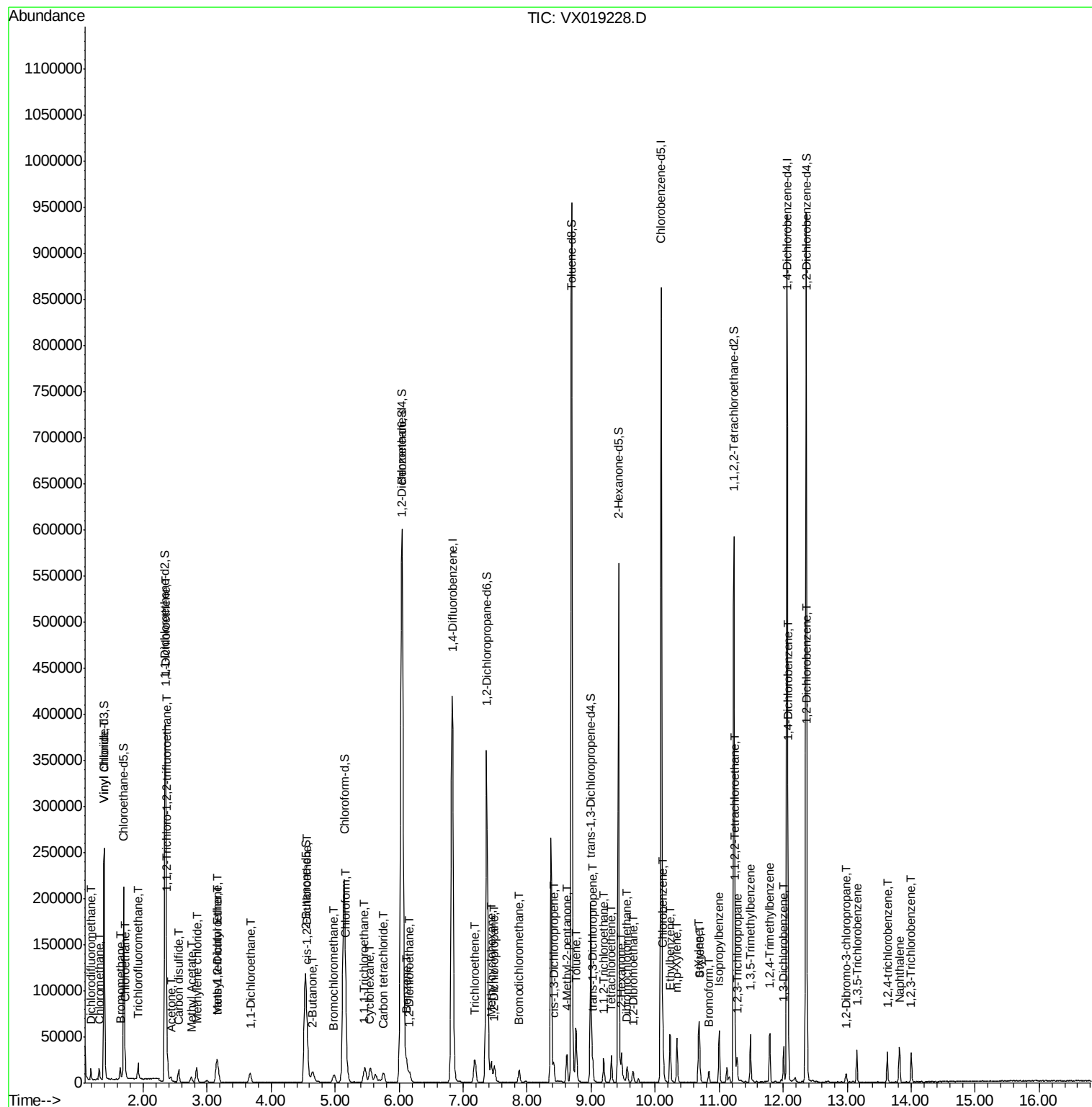
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX110320\
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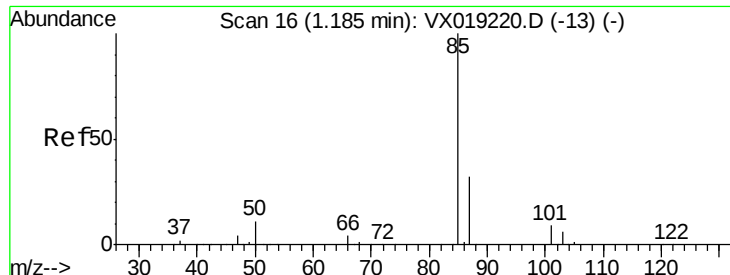
Instrument :
MSVOA_X
ClientSampleID :
MDL-WATER-04

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\SFAMXLM110220WMA.M
Quant Title : VOC Analysis
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Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 2.261 ug/L

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX019228.D

Acq: 03 Nov 2020 12:40

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-04

Tot Ion: 85 Resp: 6231

Ion Ratio Lower Upper

85 100

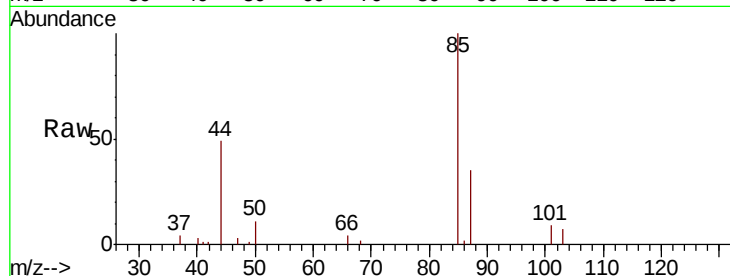
87 32.8 25.8 38.8

Manual Integrations

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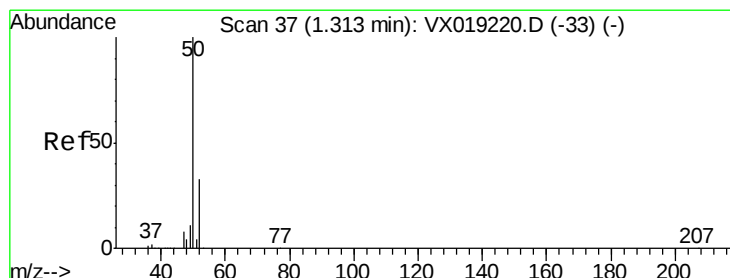
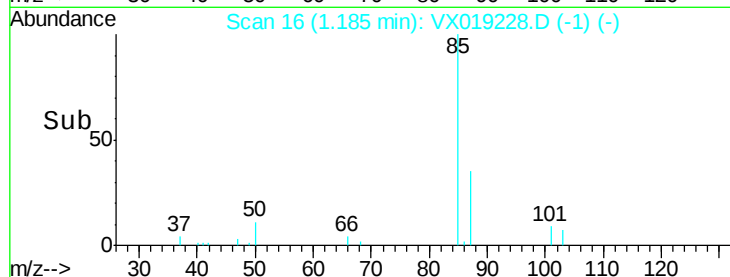
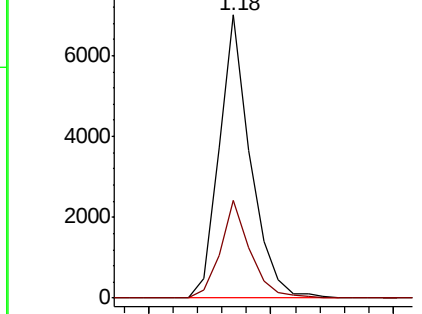
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Abundance Ion 85.00 (84.70 to 85.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#3

Chloromethane

Concen: 2.446 ug/L

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX019228.D

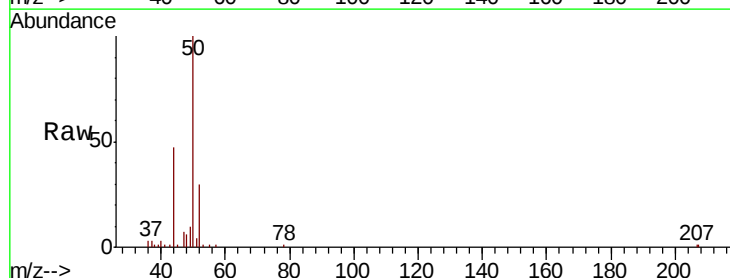
Acq: 03 Nov 2020 12:40

Tgt Ion: 50 Resp: 6848

Ion Ratio Lower Upper

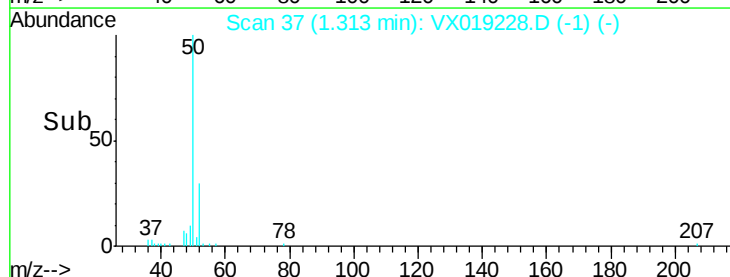
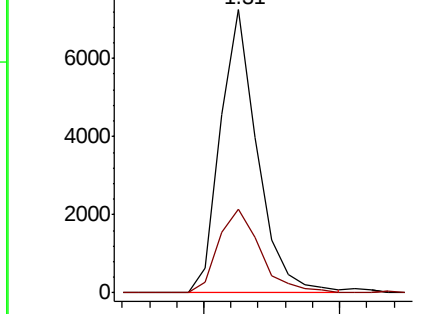
50 100

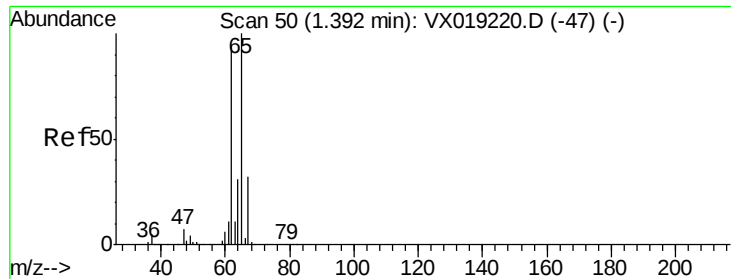
52 29.6 22.8 42.4



Abundance Ion 50.00 (49.70 to 50.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#5

Vinyl chloride

Concen: 2.570 ug/L

RT: 1.39 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX019228.D

Acq: 03 Nov 2020 12:40

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-04

Tot Ion: 62 Resp: 8109

Ion Ratio Lower Upper

62 100

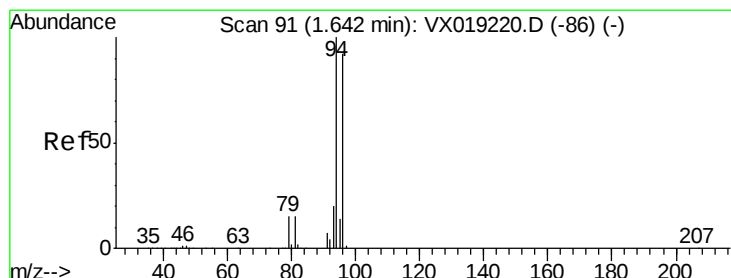
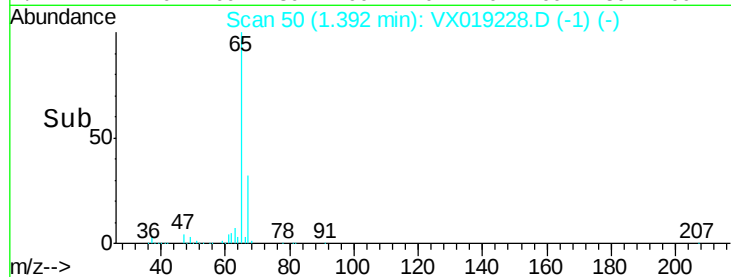
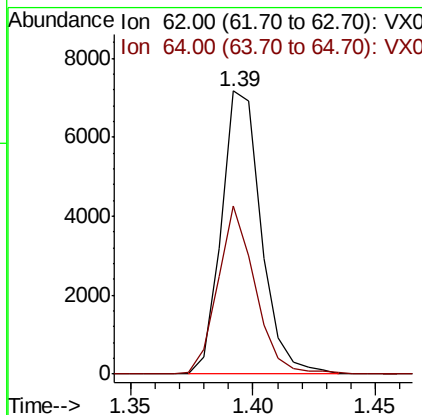
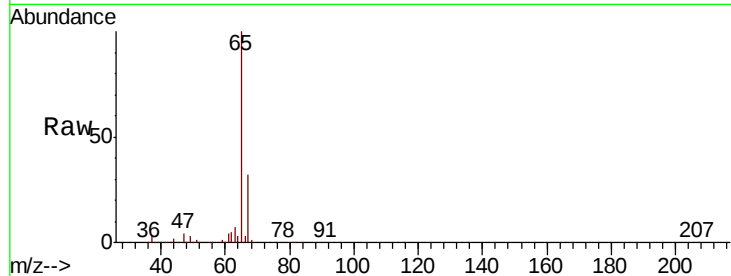
64 59.2 23.4 43.6#

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#6

Bromomethane

Concen: 2.456 ug/L

RT: 1.64 min Scan# 91

Delta R.T. 0.00 min

Lab File: VX019228.D

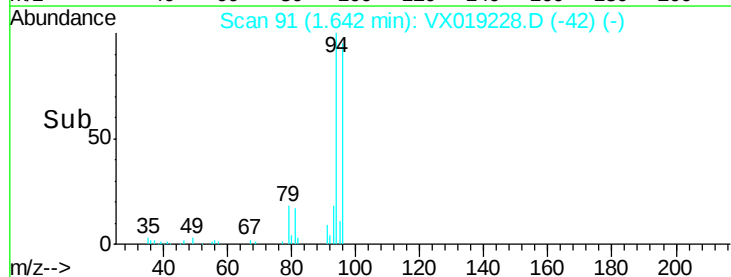
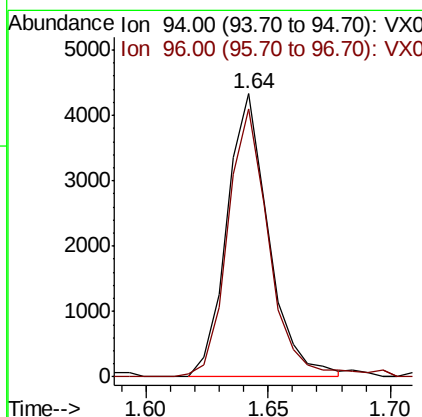
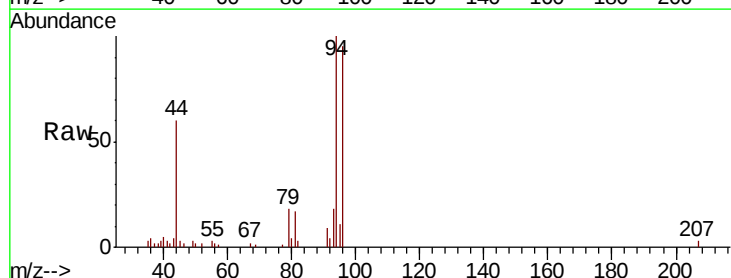
Acq: 03 Nov 2020 12:40

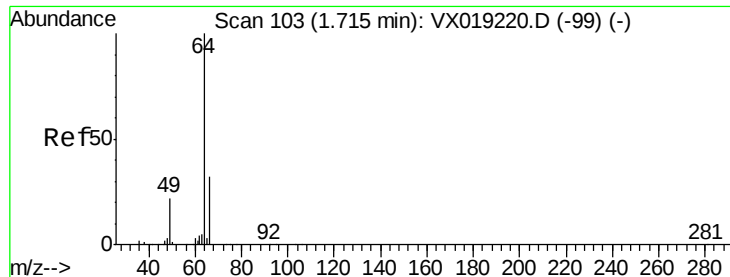
Tgt Ion: 94 Resp: 5121

Ion Ratio Lower Upper

94 100

96 94.5 66.0 122.6





#8

Chloroethane

Concen: 2.580 ug/L

RT: 1.72 min Scan# 104

Delta R.T. 0.01 min

Lab File: VX019228.D

Acq: 03 Nov 2020 12:40

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-04

Tot Ion: 64 Resp: 5075

Ion Ratio Lower Upper

64 100

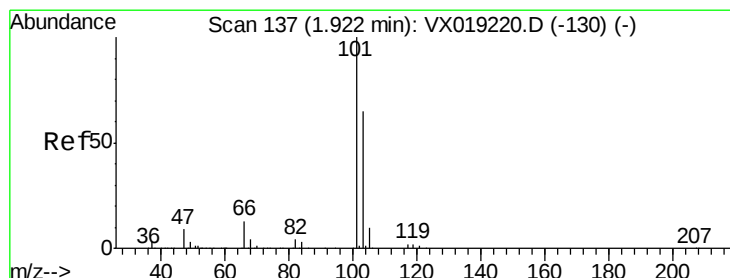
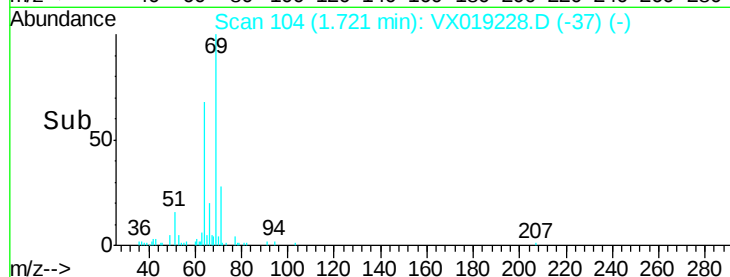
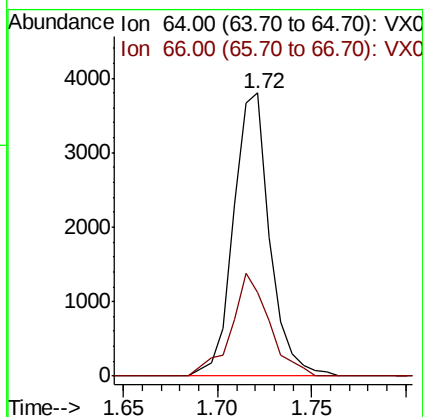
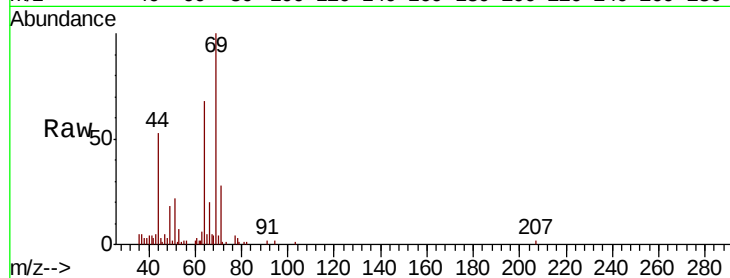
66 29.5 22.5 41.9

Manual Integrations

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#9

Trichlorofluoromethane

Concen: 2.311 ug/L

RT: 1.92 min Scan# 137

Delta R.T. 0.00 min

Lab File: VX019228.D

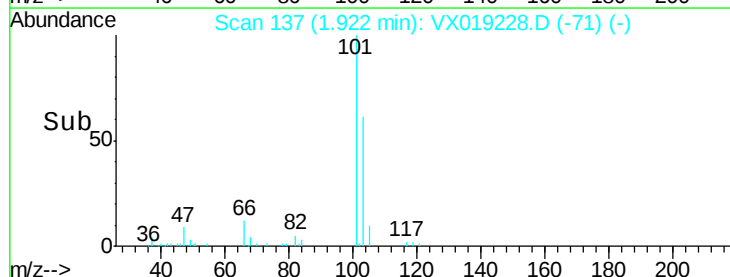
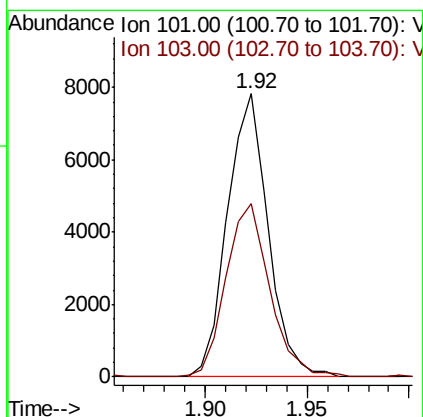
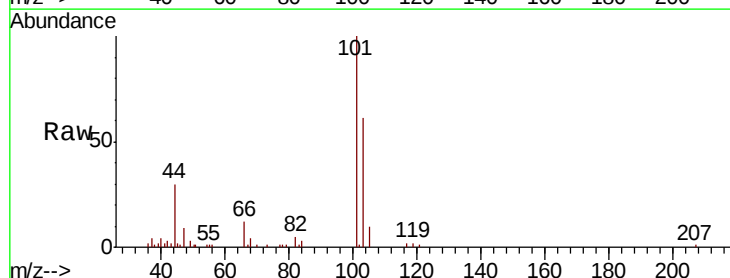
Acq: 03 Nov 2020 12:40

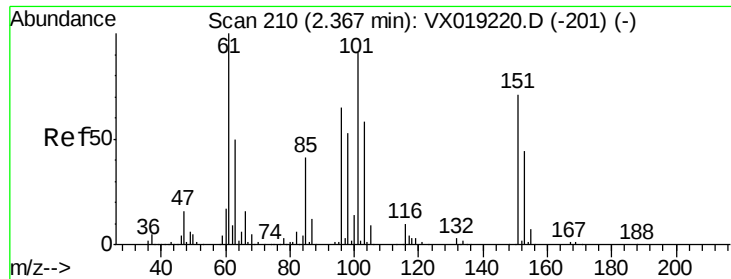
Tgt Ion: 101 Resp: 10818

Ion Ratio Lower Upper

101 100

103 65.1 51.3 76.9





#10

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

Concen: 3.001 ug/L

RT: 2.37 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX019228.D

Acq: 03 Nov 2020 12:40

Instrument :

MSVOA_X

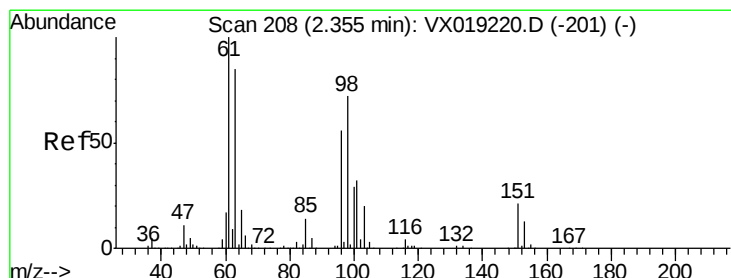
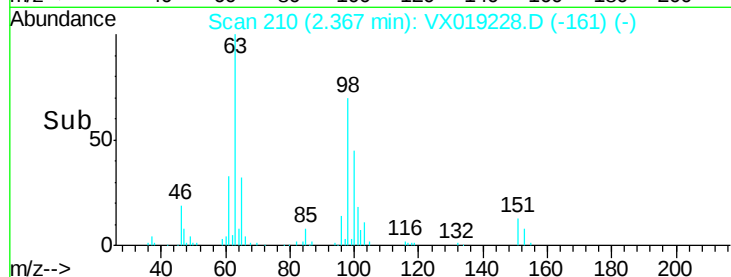
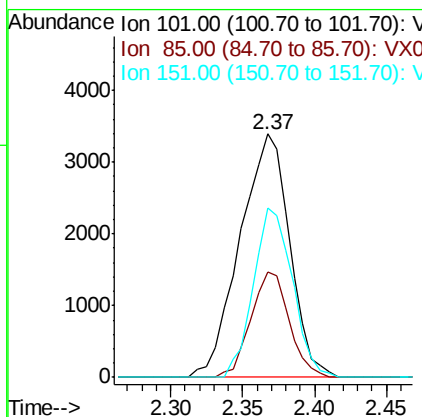
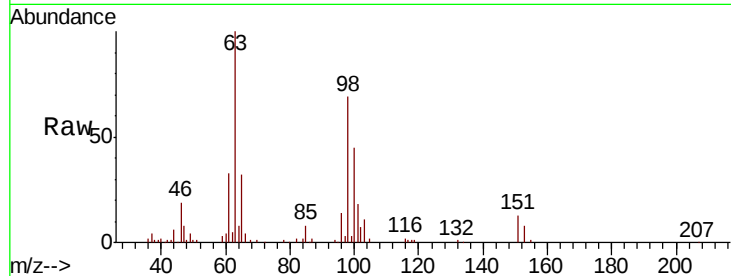
ClientSampleId :

MDL-WATER-04

Tot Ion:	101	Resp:	8103
Ion Ratio	Lower	Upper	
101	100		
85	33.3	35.0	52.4#
151	54.6	59.9	89.9#

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#12

1,1-Dichloroethene

Concen: 2.879 ug/L

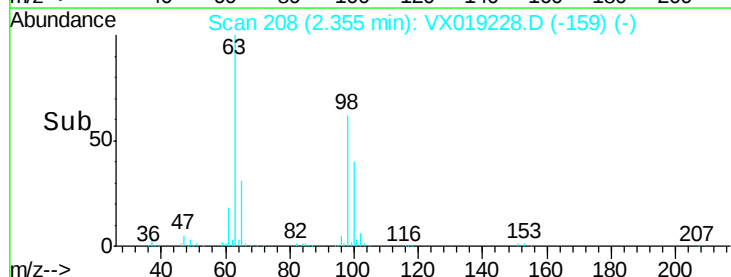
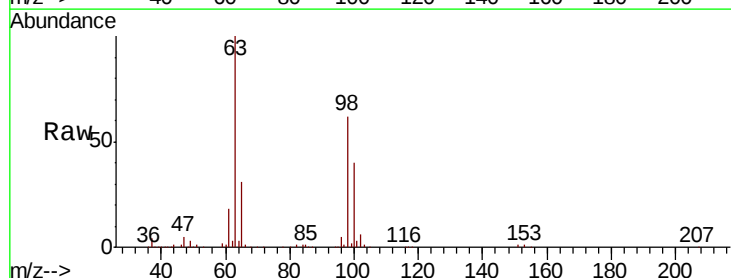
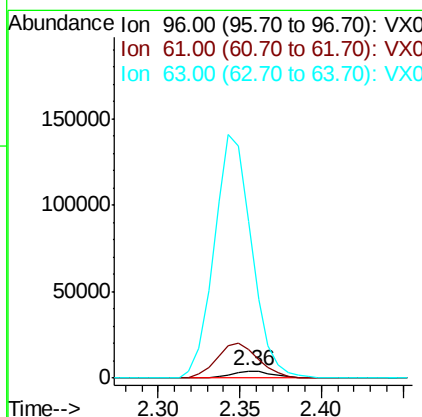
RT: 2.36 min Scan# 208

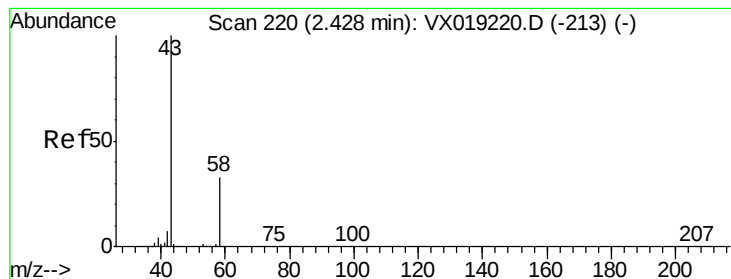
Delta R.T. 0.00 min

Lab File: VX019228.D

Acq: 03 Nov 2020 12:40

Tgt Ion:	96	Resp:	7545
Ion Ratio	Lower	Upper	
96	100		
61	396.0	115.1	213.8#
63	2203.9	78.3	145.5#





#13

Acetone

Concen: 5.119 ug/L

RT: 2.43 min Scan# 220

Delta R.T. 0.00 min

Lab File: VX019228.D

Acq: 03 Nov 2020 12:40

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-04

Tot Ion: 43 Resp: 6042

Ion Ratio Lower Upper

43 100

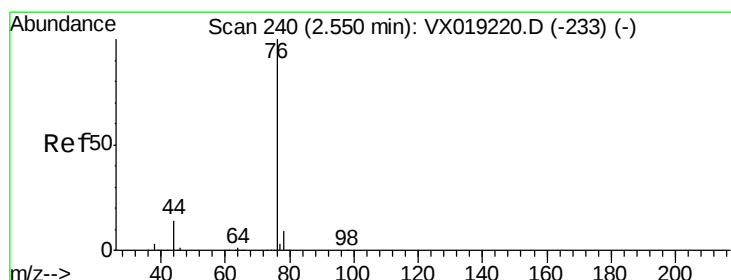
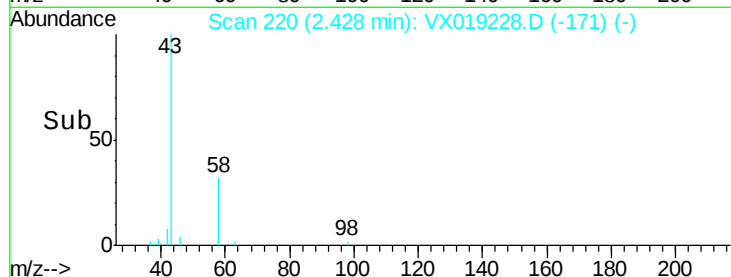
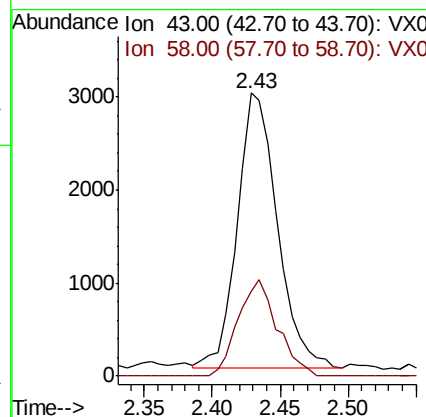
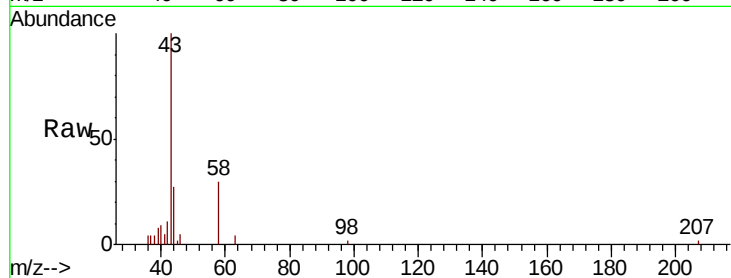
58 34.5 0.0 64.6

Manual Integrations

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#14

Carbon disulfide

Concen: 2.196 ug/L

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX019228.D

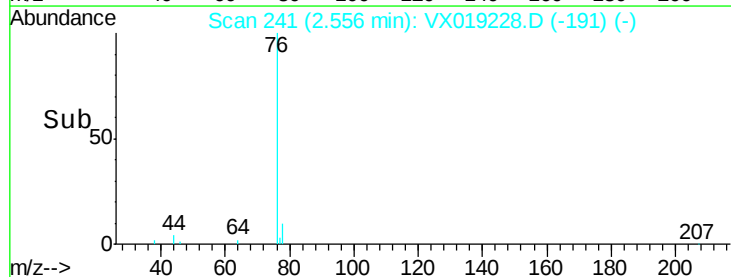
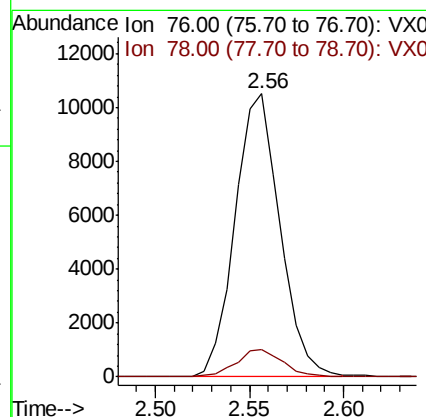
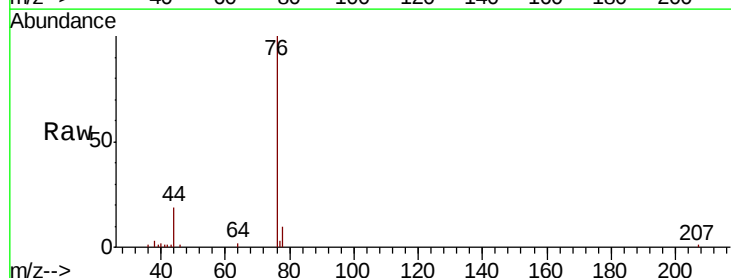
Acq: 03 Nov 2020 12:40

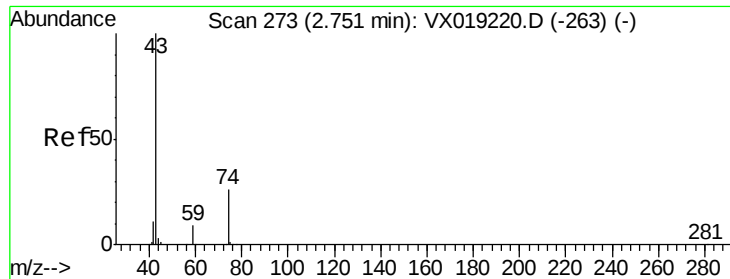
Tgt Ion: 76 Resp: 17366

Ion Ratio Lower Upper

76 100

78 9.7 7.1 10.7





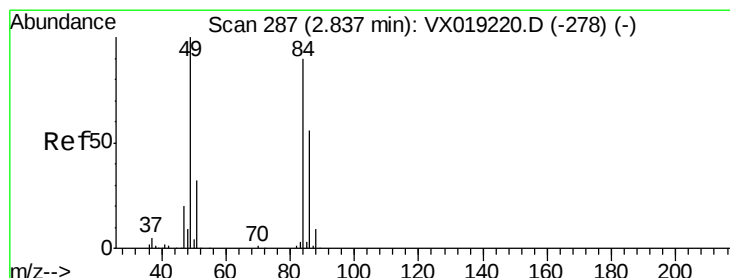
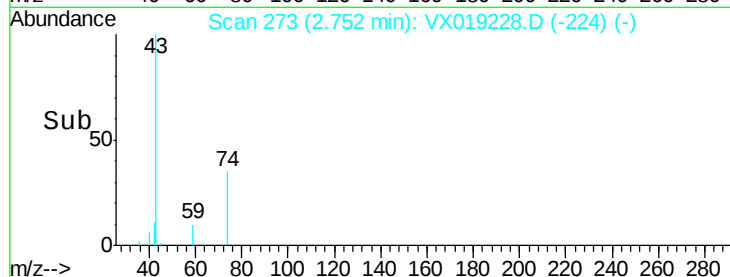
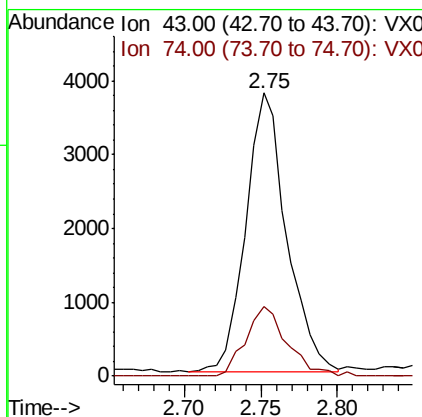
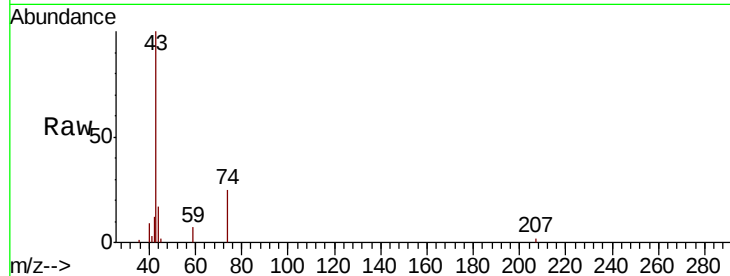
#15
Methyl Acetate
Concen: 2.710 ug/L
RT: 2.75 min Scan# 273
Delta R.T. 0.00 min
Lab File: VX019228.D
Acq: 03 Nov 2020 12:40

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-04

Tot Ion	43	Resp	6979
Ion	Ratio	Lower	Upper
43	100		
74	24.6	21.8	32.8

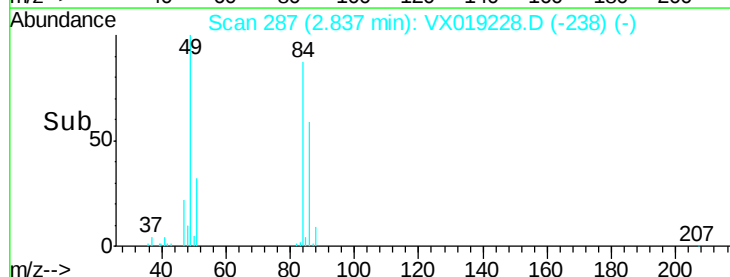
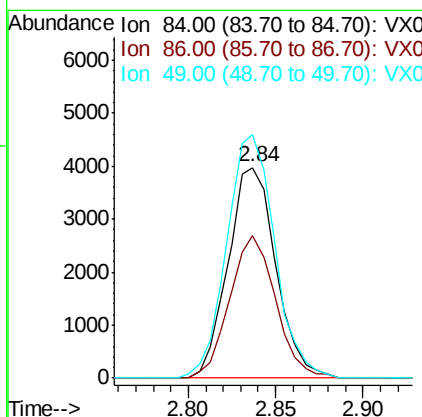
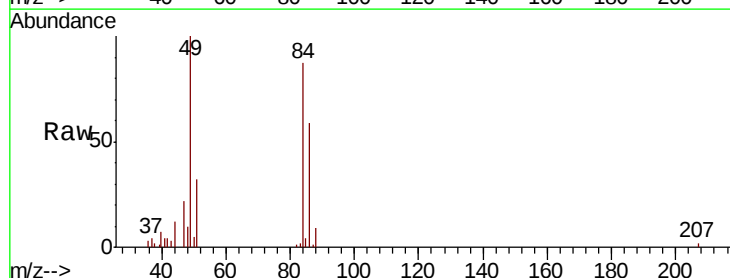
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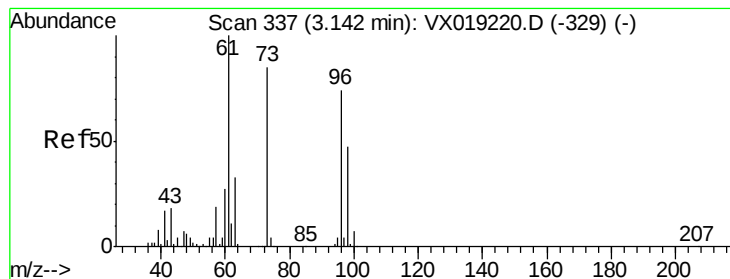
MMDadoda
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#16
Methylene chloride
Concen: 2.600 ug/L
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX019228.D
Acq: 03 Nov 2020 12:40

Tgt Ion	84	Resp	7596
Ion	Ratio	Lower	Upper
84	100		
86	67.7	44.0	81.6
49	115.5	80.6	149.6





#17

trans-1,2-Dichloroethene

Concen: 2.303 ug/L

RT: 3.15 min Scan# 338

Delta R.T. 0.01 min

Lab File: VX019228.D

Acq: 03 Nov 2020 12:40

Instrument :

MSVOA_X

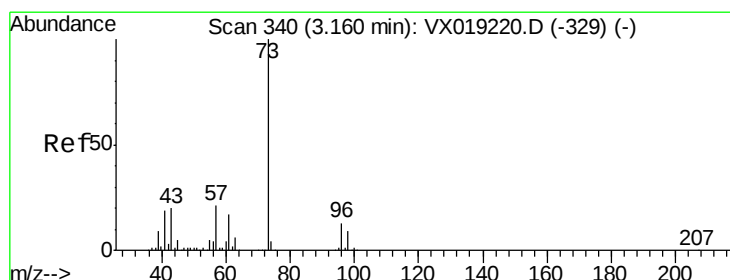
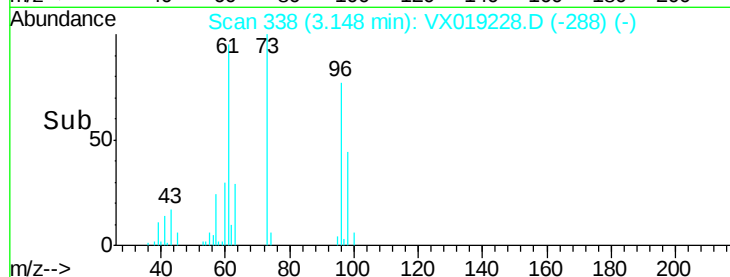
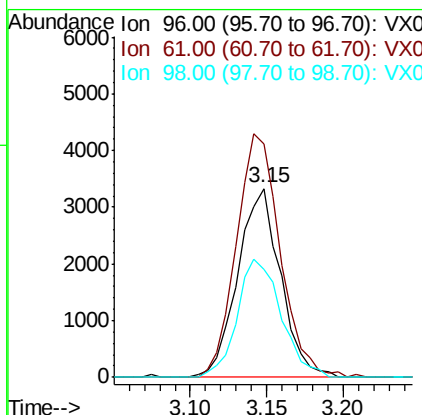
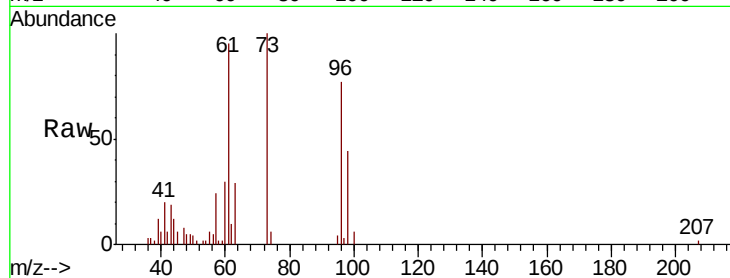
ClientSampleId :

MDL-WATER-04

Tot Ion:	96	Resp:	6487
Ion	Ratio	Lower	Upper
96	100		
61	123.5	95.7	177.7
98	57.4	44.2	82.0

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#18

Methyl tert-butyl Ether

Concen: 2.263 ug/L

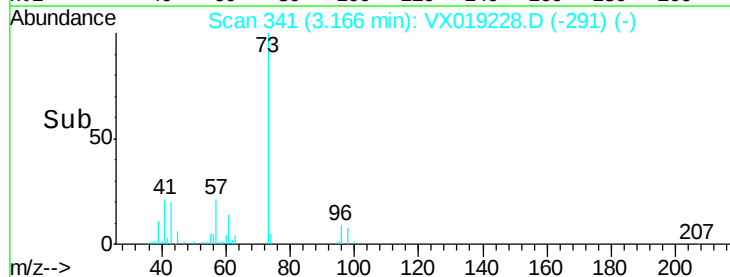
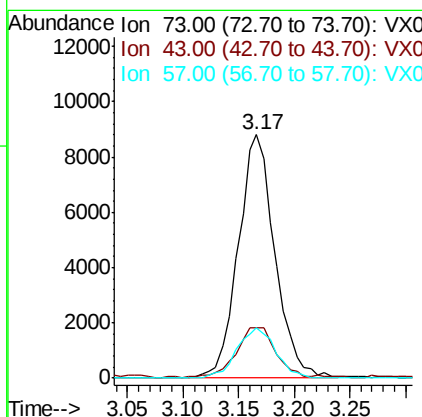
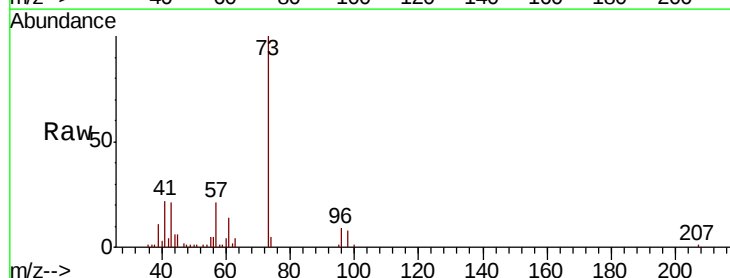
RT: 3.17 min Scan# 341

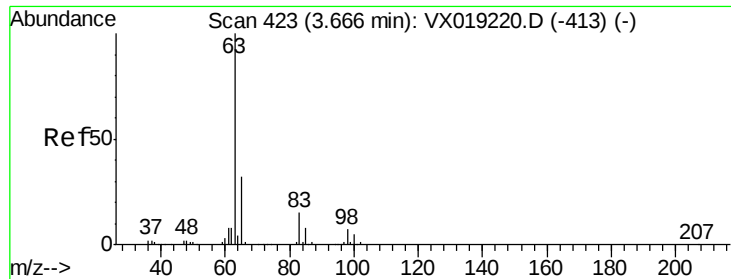
Delta R.T. 0.01 min

Lab File: VX019228.D

Acq: 03 Nov 2020 12:40

Tgt Ion:	73	Resp:	20153
Ion	Ratio	Lower	Upper
73	100		
43	22.9	15.8	23.6
57	21.6	17.0	25.4





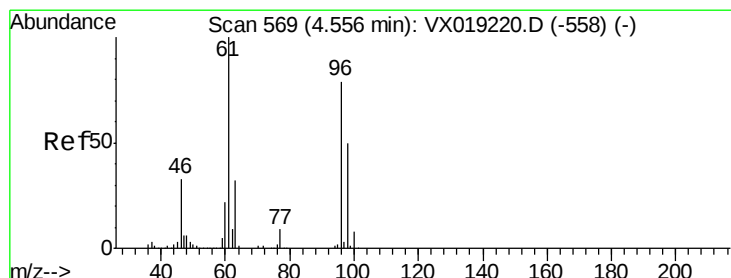
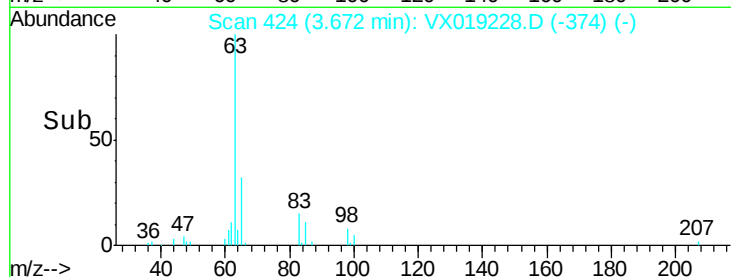
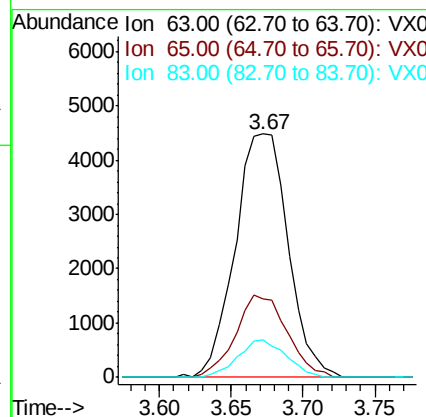
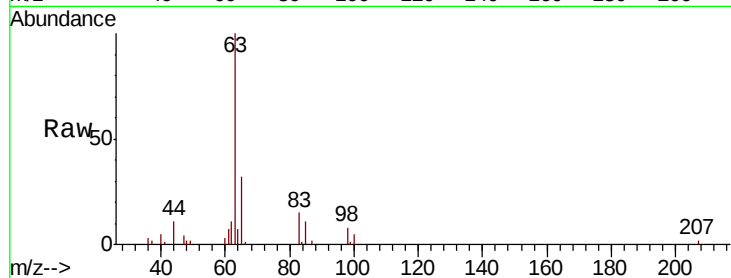
#19
 1,1-Dichloroethane
 Concen: 2.286 ug/L
 RT: 3.67 min Scan# 424
 Delta R.T. 0.01 min
 Lab File: VX019228.D
 Acq: 03 Nov 2020 12:40

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-04

Tot Ion:	63	Resp:	11442
Ion	Ratio	Lower	Upper
63	100		
65	32.5	22.3	41.3
83	15.2	9.7	18.1

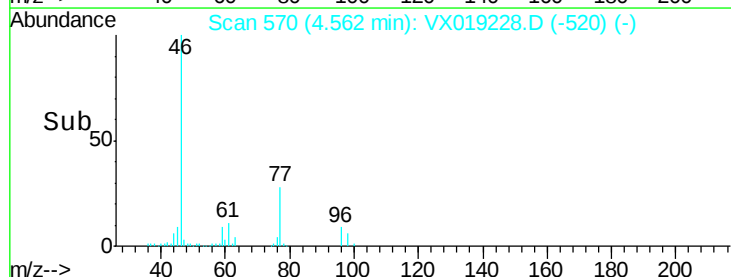
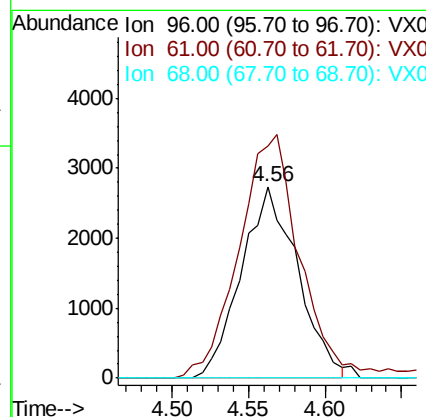
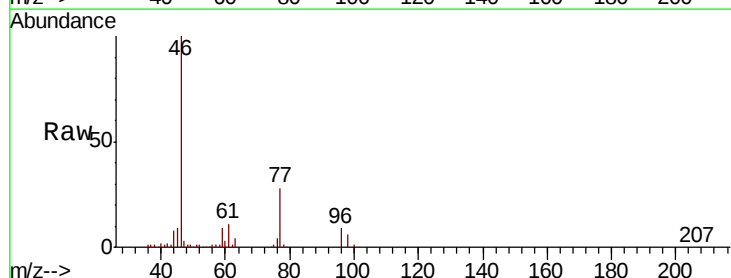
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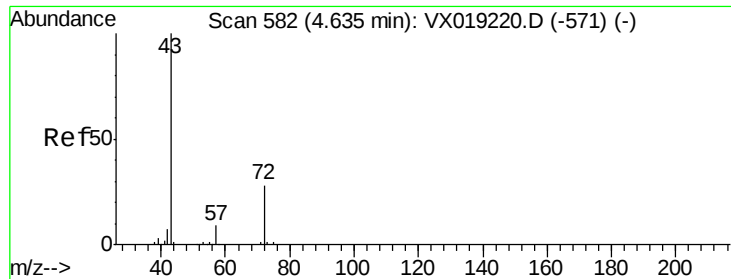
MMDadoda
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#20
 cis-1,2-Dichloroethene
 Concen: 2.263 ug/L
 RT: 4.56 min Scan# 570
 Delta R.T. 0.01 min
 Lab File: VX019228.D
 Acq: 03 Nov 2020 12:40

Tgt Ion:	96	Resp:	7001
Ion	Ratio	Lower	Upper
96	100		
61	121.4	86.1	159.9
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 4.778 ug/L

RT: 4.65 min Scan# 585

Delta R.T. 0.02 min

Lab File: VX019228.D

Acq: 03 Nov 2020 12:40

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-04

Tot Ion: 43 Resp: 8906

Ion Ratio Lower Upper

43 100

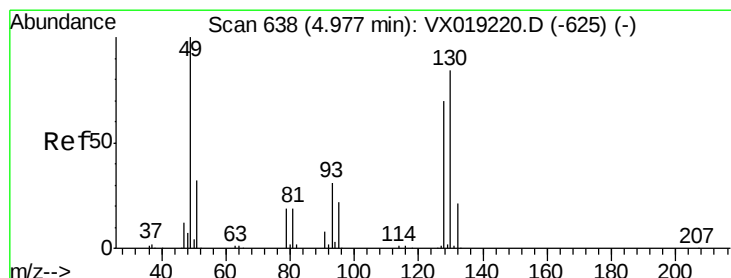
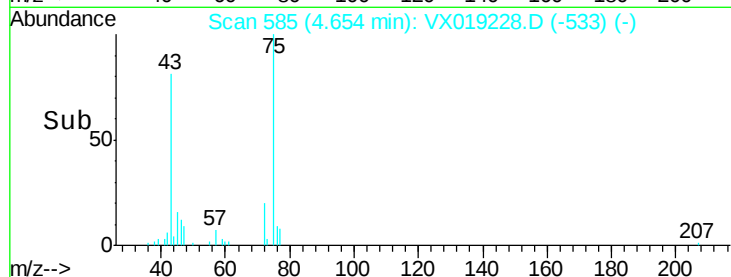
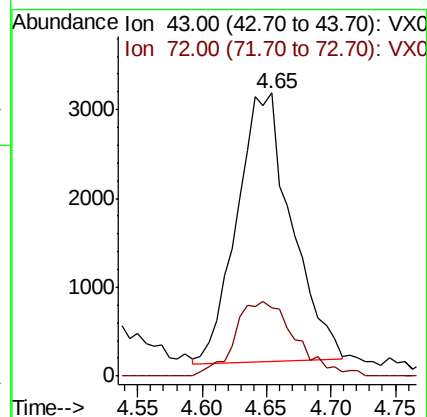
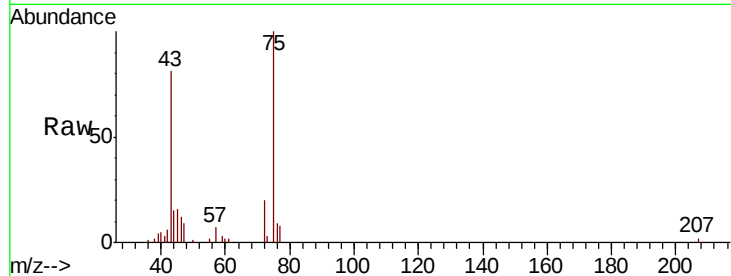
72 30.6 15.0 45.0

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#23

Bromochloromethane

Concen: 2.227 ug/L

RT: 4.98 min Scan# 639

Delta R.T. 0.01 min

Lab File: VX019228.D

Acq: 03 Nov 2020 12:40

Tgt Ion:128 Resp: 3471

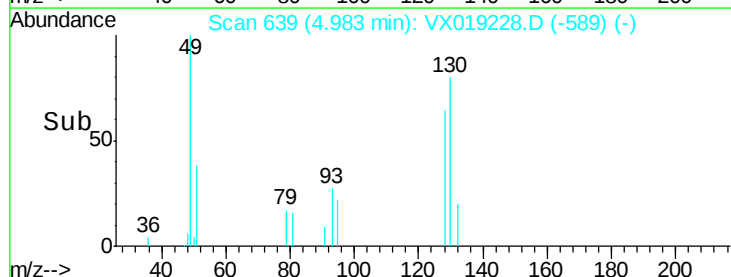
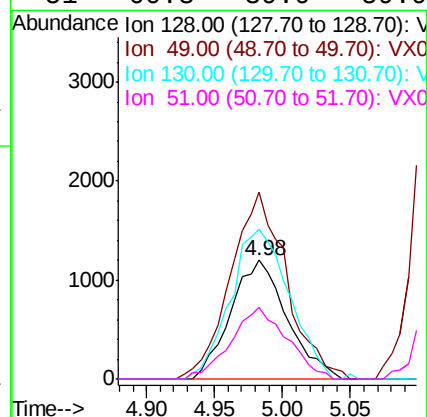
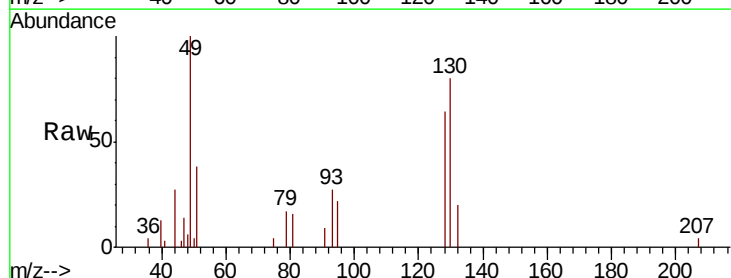
Ion Ratio Lower Upper

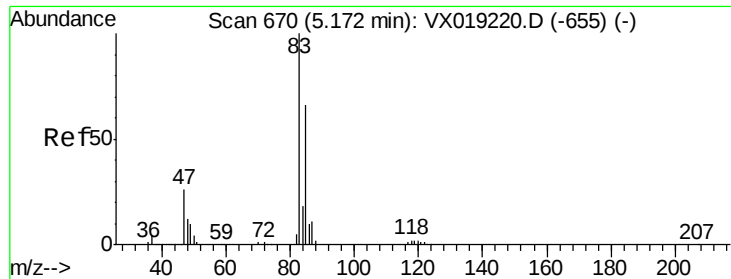
128 100

49 156.9 108.4 201.4

130 125.7 96.7 179.7

51 60.3 39.9 59.9#





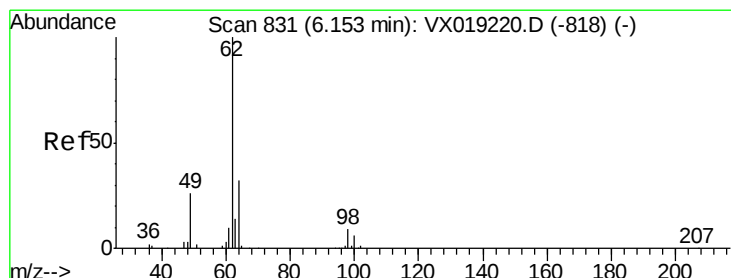
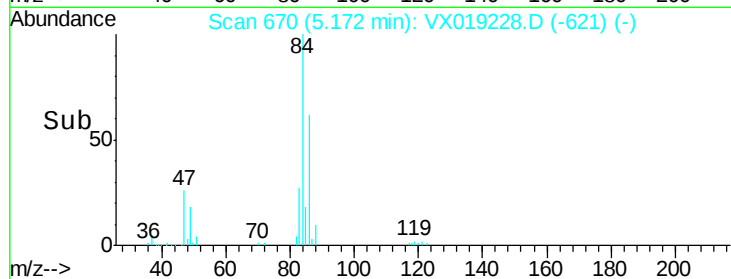
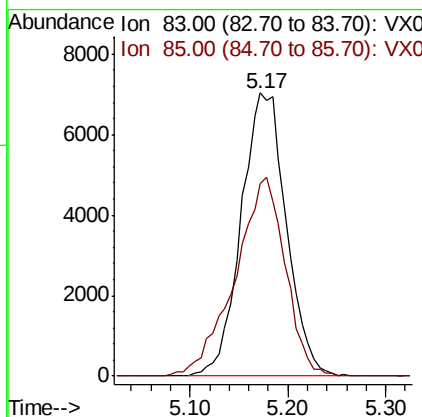
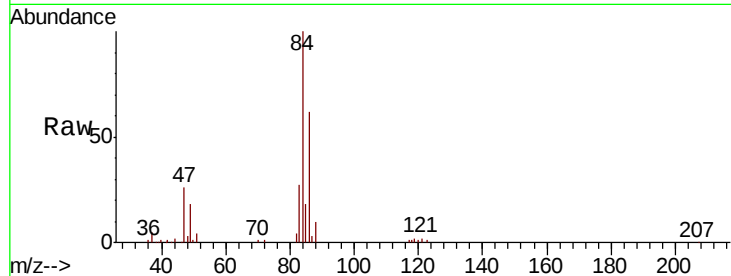
#25
Chloroform
Concen: 4.298 ug/L
RT: 5.17 min Scan# 670
Delta R.T. 0.00 min
Lab File: VX019228.D
Acq: 03 Nov 2020 12:40

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-04

Tot Ion	83	Resp	22581
Ion Ratio	100	Lower	Upper
85	67.8	46.5	86.3

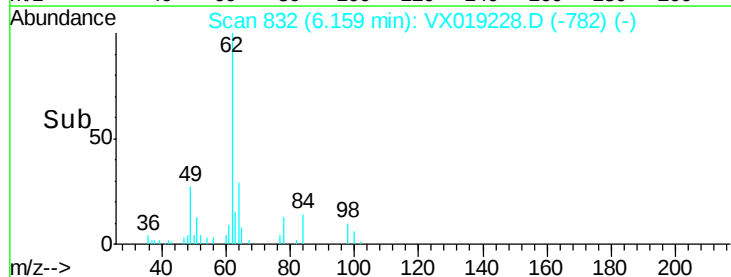
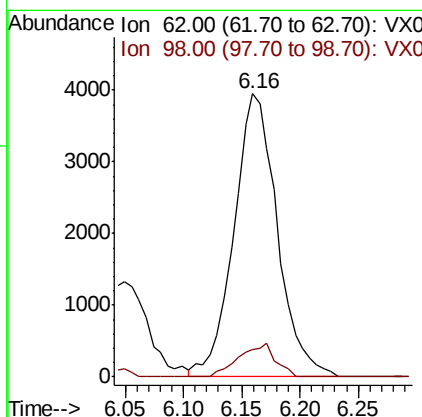
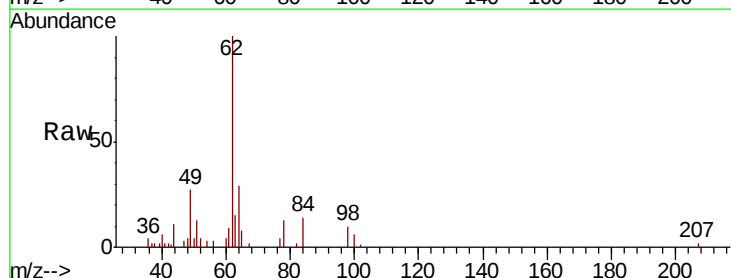
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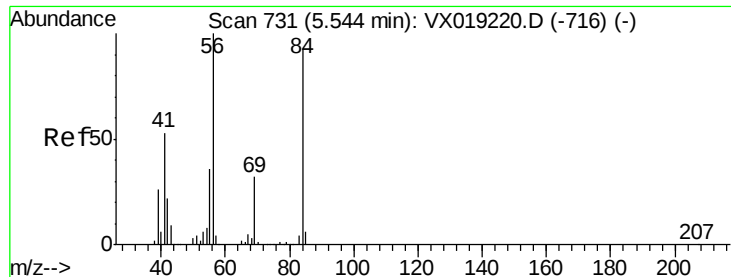
MMDadoda
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#27
1,2-Dichloroethane
Concen: 2.477 ug/L
RT: 6.16 min Scan# 832
Delta R.T. 0.01 min
Lab File: VX019228.D
Acq: 03 Nov 2020 12:40

Tgt Ion	62	Resp	10245
Ion Ratio	100	Lower	Upper
98	9.5	7.6	11.4





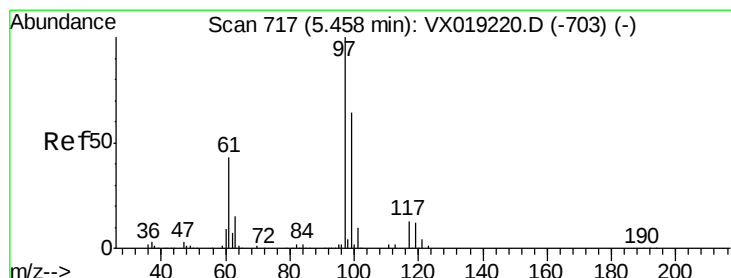
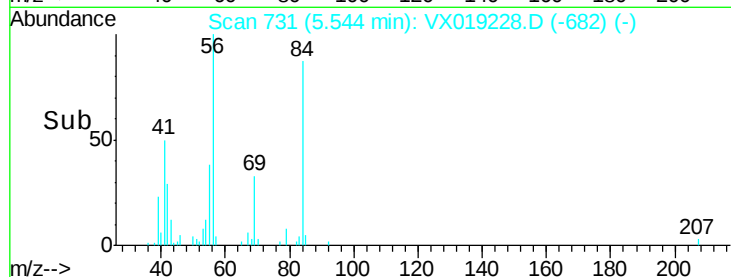
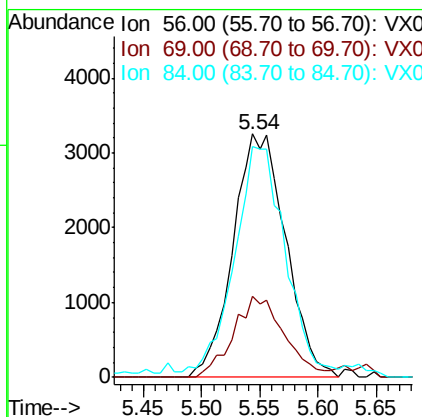
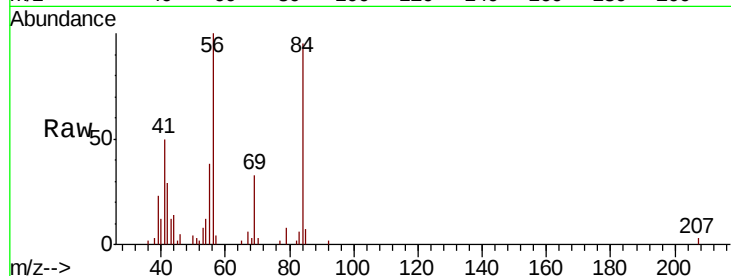
#29
Cvclohexane
Concen: 2.222 ug/L
RT: 5.54 min Scan# 731
Delta R.T. 0.00 min
Lab File: VX019228.D
Acq: 03 Nov 2020 12:40

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-04

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.4	25.2	37.8
84	93.3	73.6	110.4

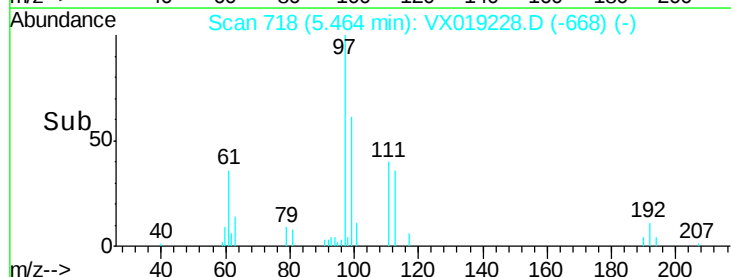
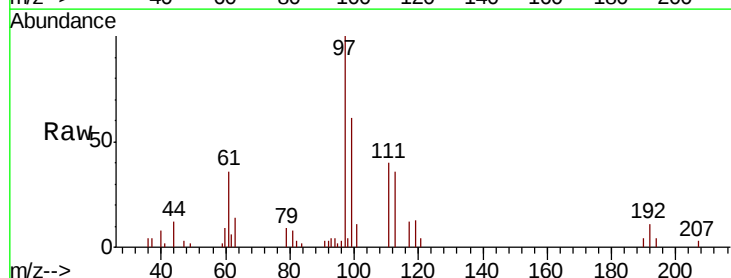
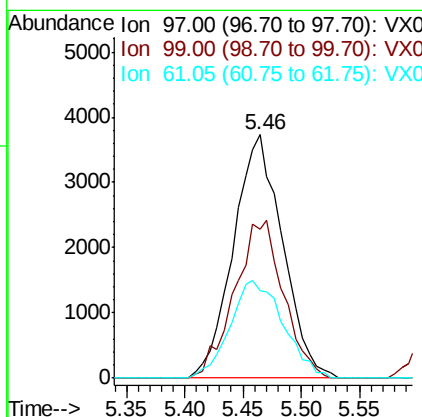
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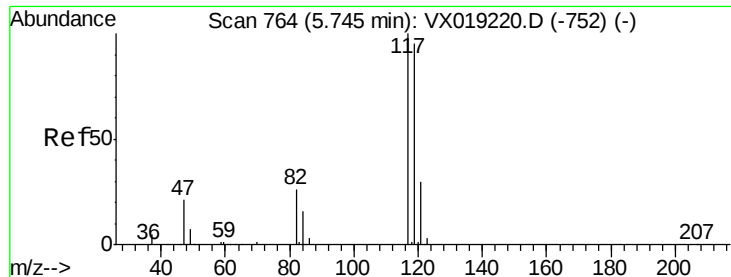
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#30
1,1,1-Trichloroethane
Concen: 2.272 ug/L
RT: 5.46 min Scan# 718
Delta R.T. 0.01 min
Lab File: VX019228.D
Acq: 03 Nov 2020 12:40

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.0	76.6
61	43.3	34.8	52.2





#31

Carbon tetrachloride

Concen: 2.193 ug/L

RT: 5.75 min Scan# 765

Delta R.T. 0.01 min

Lab File: VX019228.D

Acq: 03 Nov 2020 12:40

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-04

Tot Ion:117 Resp: 9067

Ion Ratio Lower Upper

117 100

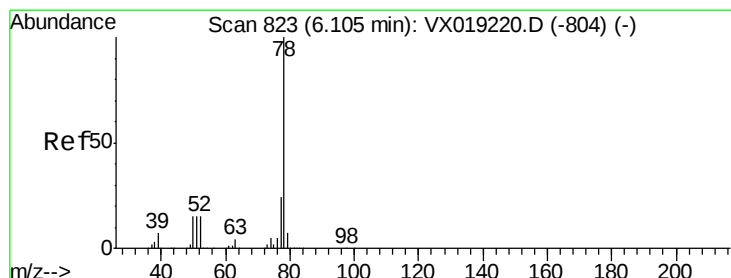
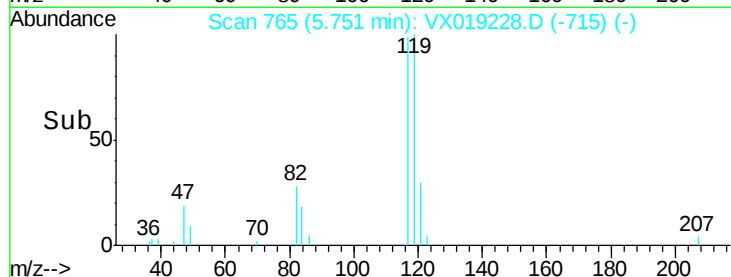
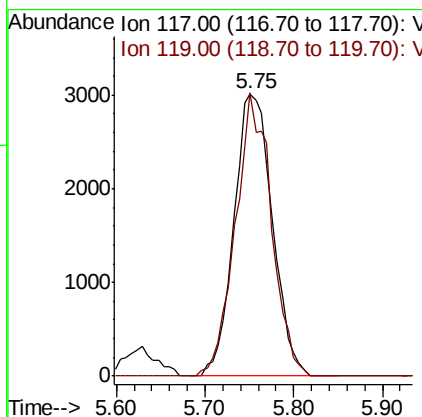
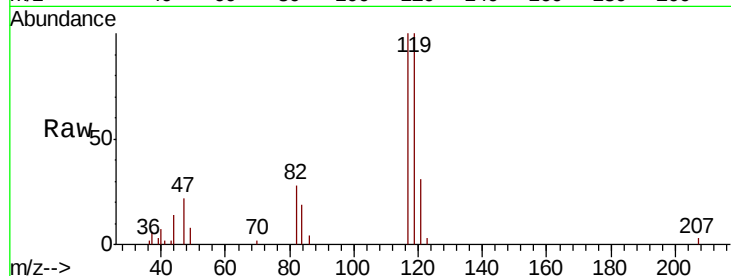
119 8.2 76.9 115.3#

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#33

Benzene

Concen: 2.387 ug/L

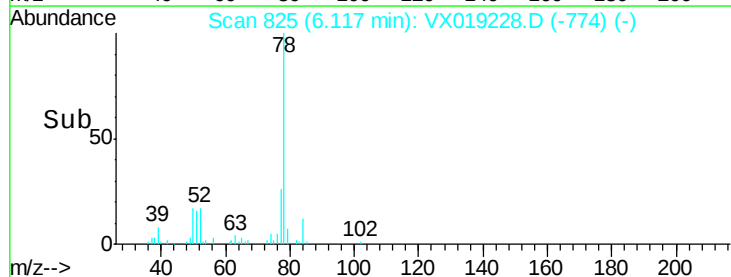
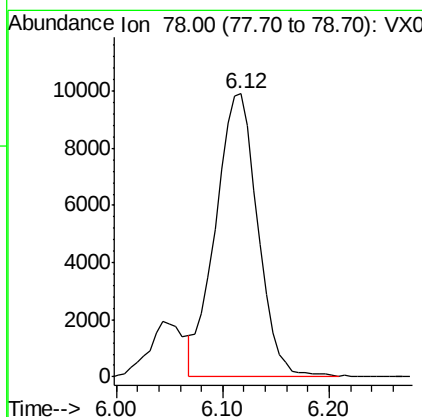
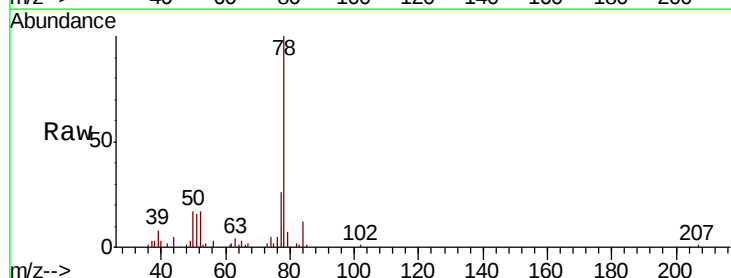
RT: 6.12 min Scan# 825

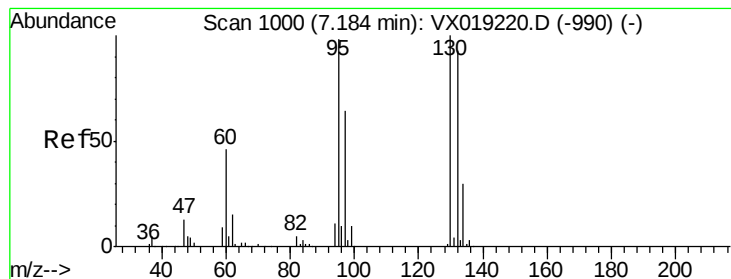
Delta R.T. 0.01 min

Lab File: VX019228.D

Acq: 03 Nov 2020 12:40

Tgt Ion: 78 Resp: 27354





#34

Trichloroethene

Concen: 2.312 ug/L

RT: 7.19 min Scan# 1001

Delta R.T. 0.01 min

Lab File: VX019228.D

Acq: 03 Nov 2020 12:40

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-04

Tot Ion: 95 Resp: 7232

Ion Ratio Lower Upper

95 100

97 64.5 45.1 83.9

132 104.9 67.3 124.9

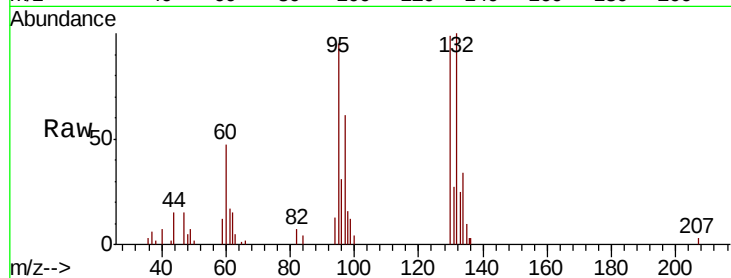
130 103.5 69.9 129.9

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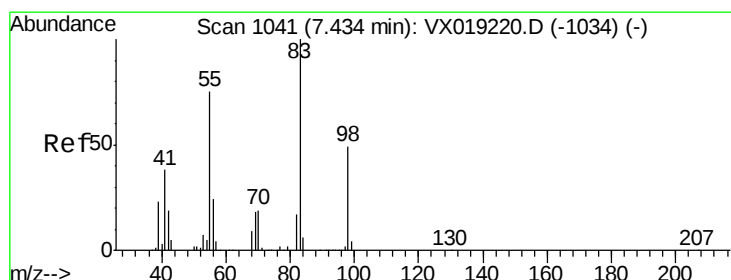
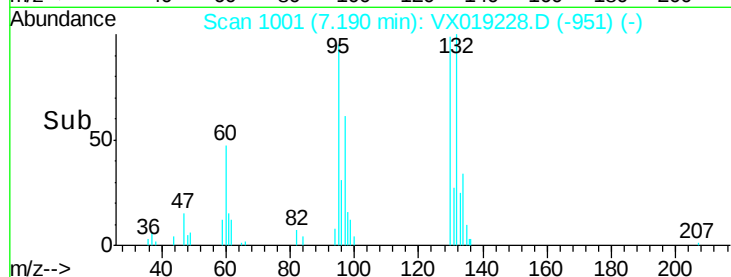
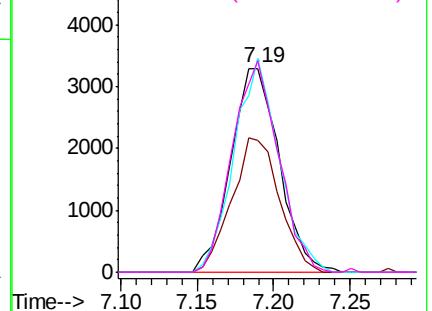
Abundance

Ion 95.00 (94.70 to 95.70): VX0

Ion 97.00 (96.70 to 97.70): VX0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 2.088 ug/L

RT: 7.44 min Scan# 1042

Delta R.T. 0.01 min

Lab File: VX019228.D

Acq: 03 Nov 2020 12:40

Tgt Ion: 83 Resp: 10337

Ion Ratio Lower Upper

83 100

55 72.4 58.6 87.8

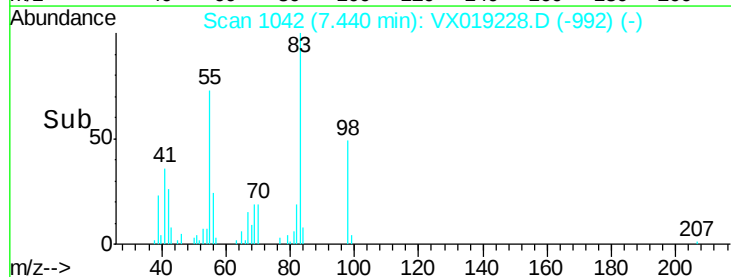
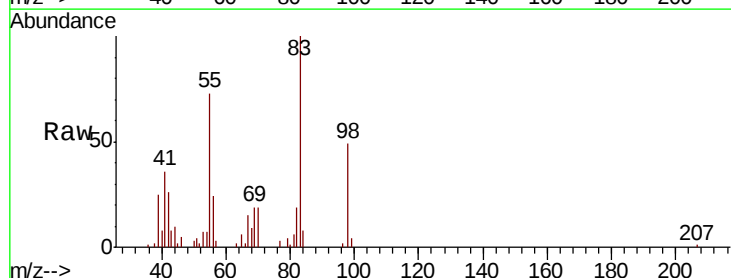
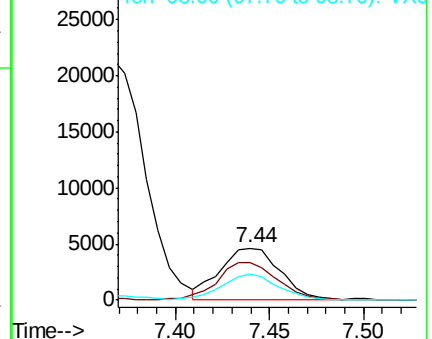
98 47.1 39.0 58.6

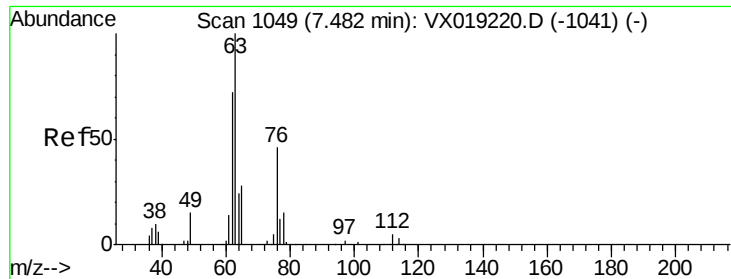
Abundance

Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





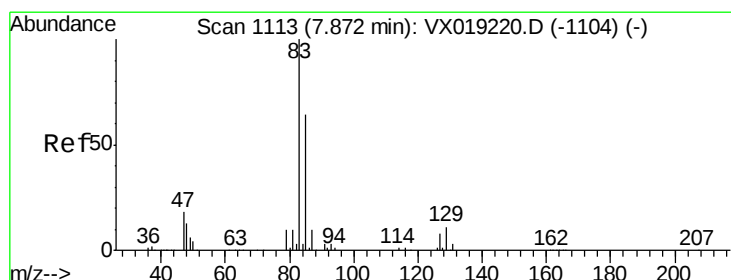
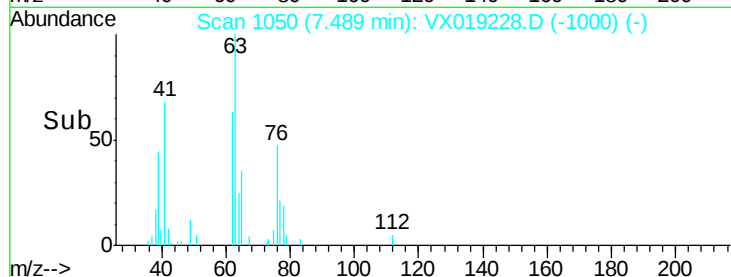
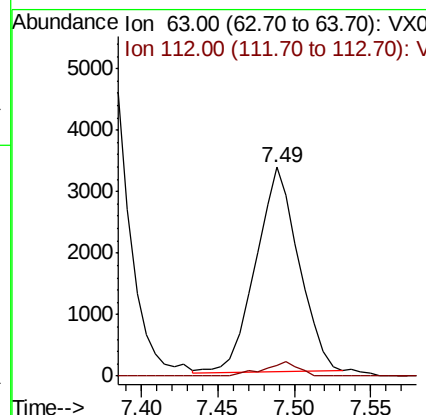
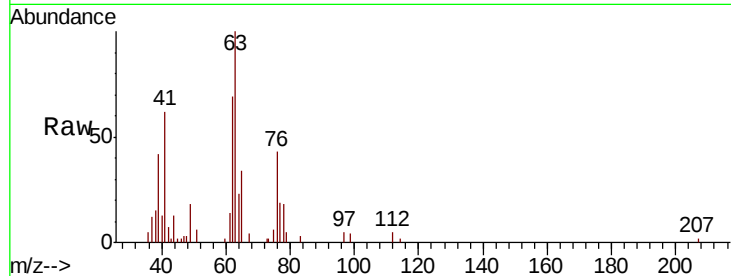
#37
 1,2-Dichloropropane
 Concen: 2.286 ug/L
 RT: 7.49 min Scan# 1050
 Delta R.T. 0.01 min
 Lab File: VX019228.D
 Acq: 03 Nov 2020 12:40

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-04

Tot Ion: 63 Resp: 6509
 Ion Ratio Lower Upper
 63 100
 112 5.7 3.8 5.6#

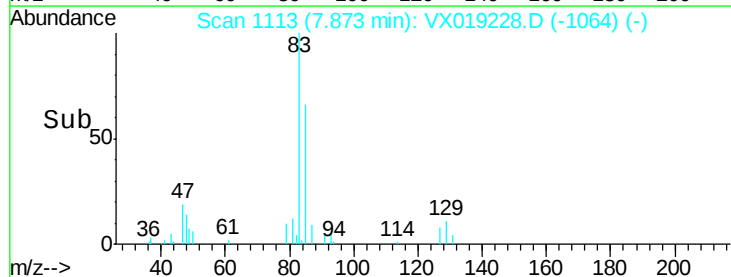
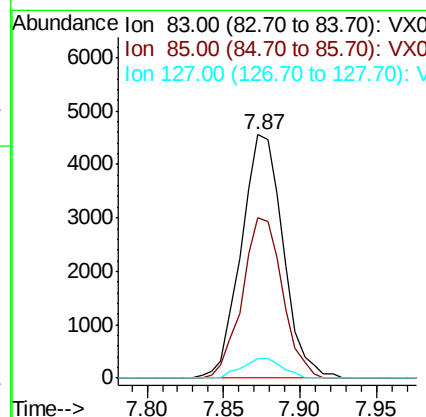
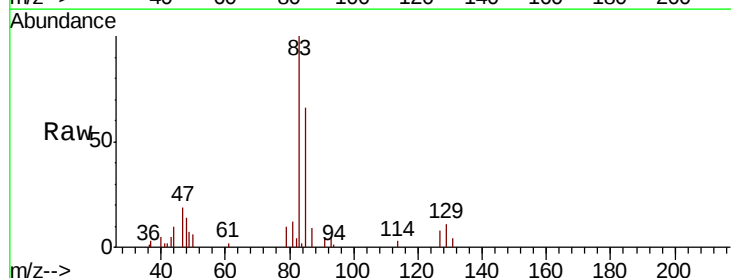
Manual Integrations
 APPROVED

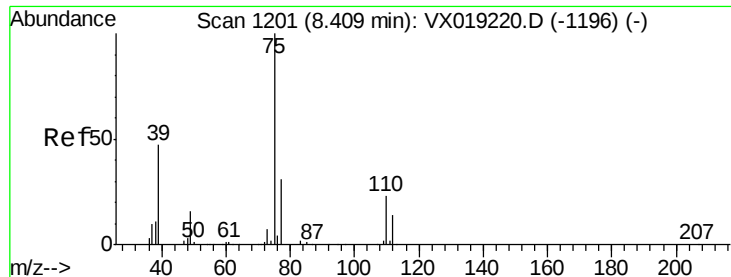
MMDadoda
 11/5/2020 10:35:36 AM



#38
 Bromodichloromethane
 Concen: 2.192 ug/L
 RT: 7.87 min Scan# 1113
 Delta R.T. 0.00 min
 Lab File: VX019228.D
 Acq: 03 Nov 2020 12:40

Tgt Ion: 83 Resp: 8680
 Ion Ratio Lower Upper
 83 100
 85 65.8 44.6 82.8
 127 8.0 6.8 10.2





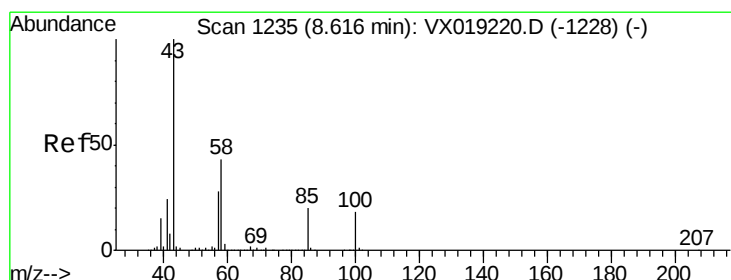
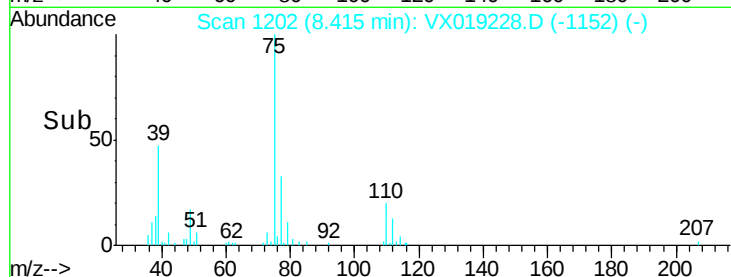
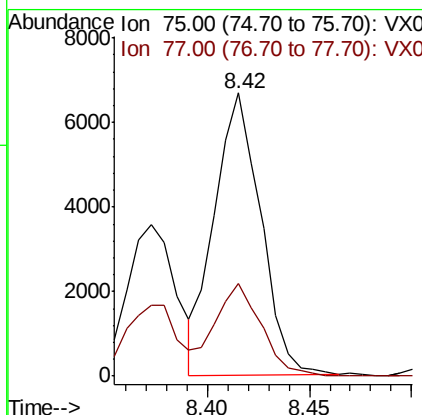
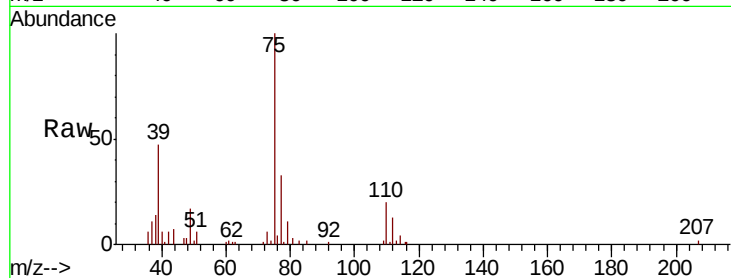
#39
 cis-1,3-Dichloropropene
 Concen: 2.224 ug/L
 RT: 8.42 min Scan# 1202
 Delta R.T. 0.01 min
 Lab File: VX019228.D
 Acq: 03 Nov 2020 12:40

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-04

Tot Ion: 75 Resp: 10520
 Ion Ratio Lower Upper
 75 100
 77 32.9 22.5 41.7

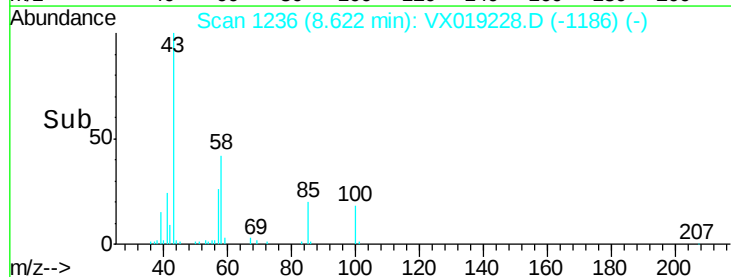
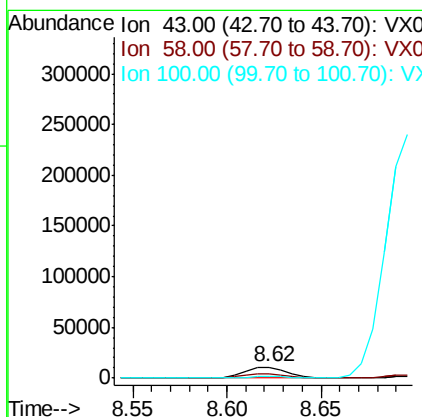
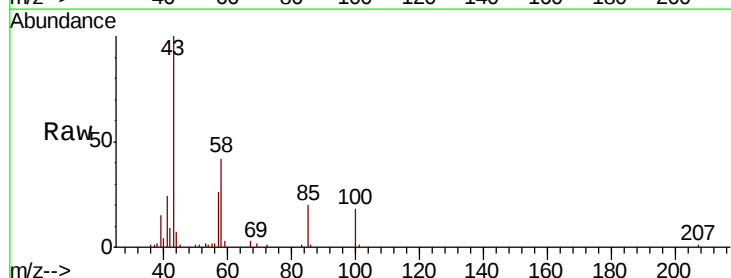
Manual Integrations
 APPROVED

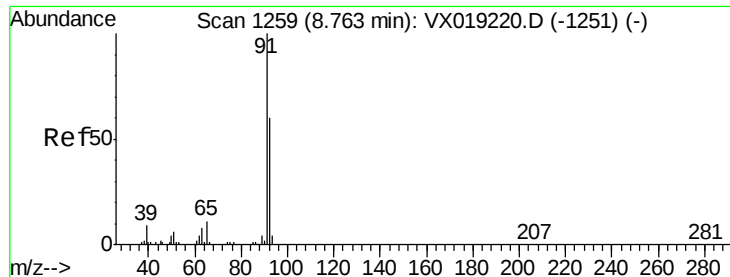
MMDadoda
 11/5/2020 10:35:36 AM



#40
 4-Methyl-2-pentanone
 Concen: 4.982 ug/L
 RT: 8.62 min Scan# 1236
 Delta R.T. 0.01 min
 Lab File: VX019228.D
 Acq: 03 Nov 2020 12:40

Tgt Ion: 43 Resp: 17347
 Ion Ratio Lower Upper
 43 100
 58 41.5 34.1 51.1
 100 18.6 14.8 22.2





#42

Toluene

Concen: 2.960 ug/L

RT: 8.76 min Scan# 1259

Delta R.T. 0.00 min

Lab File: VX019228.D

Acq: 03 Nov 2020 12:40

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-04

Tot Ion: 91 Resp: 36907

Ion Ratio Lower Upper

91 100

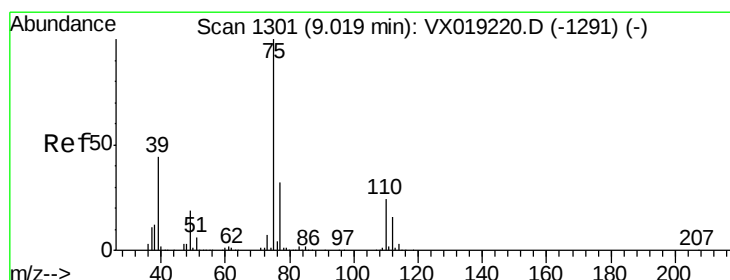
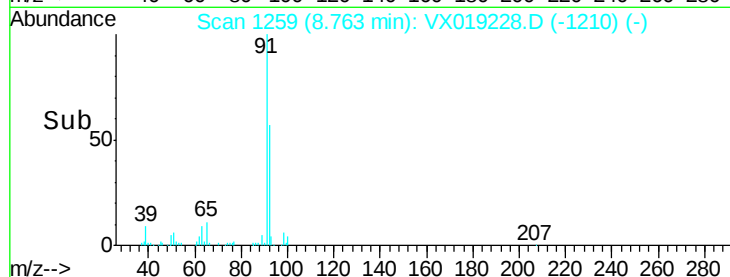
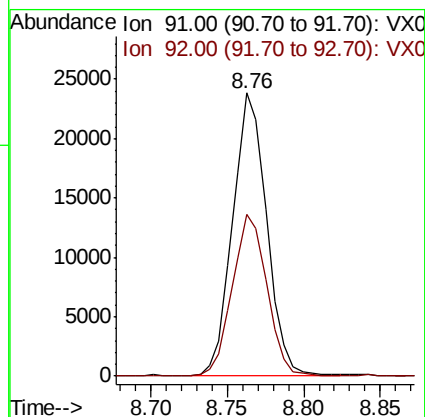
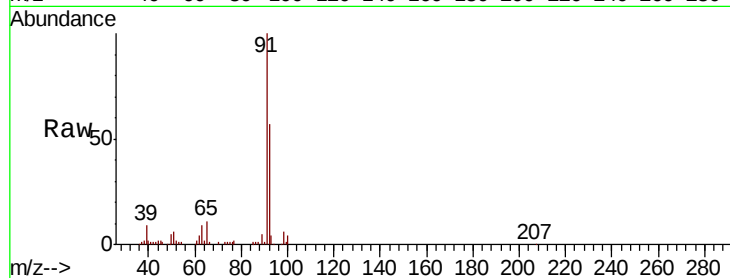
92 57.0 41.2 76.6

Manual Integrations

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11/5/2020 10:35:36 AM



#44

trans-1,3-Dichloropropene

Concen: 2.100 ug/L

RT: 9.02 min Scan# 1302

Delta R.T. 0.01 min

Lab File: VX019228.D

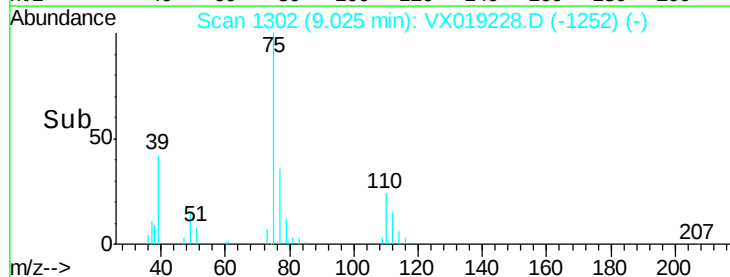
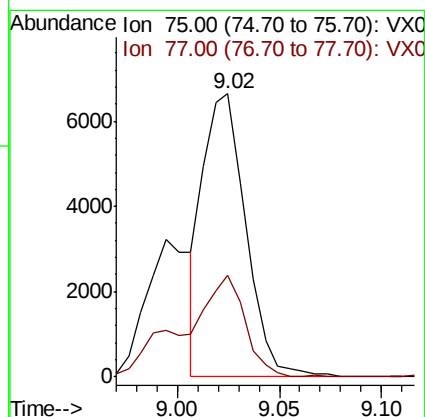
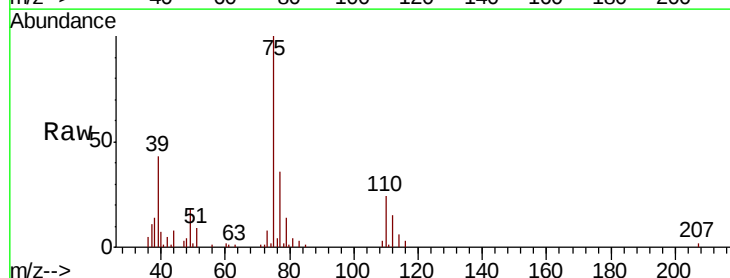
Acq: 03 Nov 2020 12:40

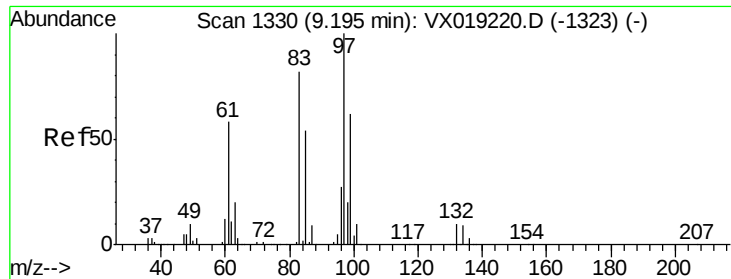
Tgt Ion: 75 Resp: 9677

Ion Ratio Lower Upper

75 100

77 36.0 21.8 40.6





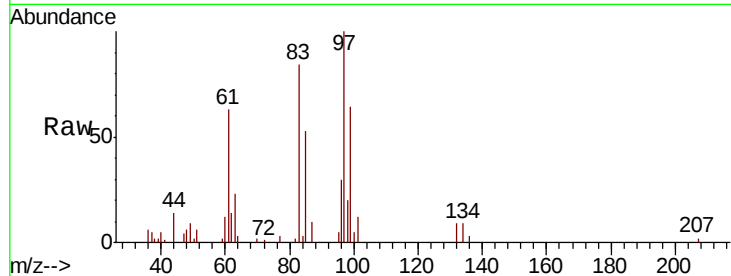
#45
1,1,2-Trichloroethane
Concen: 2.280 ug/L
RT: 9.20 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VX019228.D
Acq: 03 Nov 2020 12:40

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-04

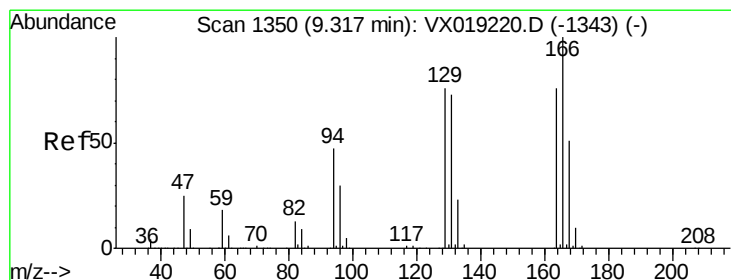
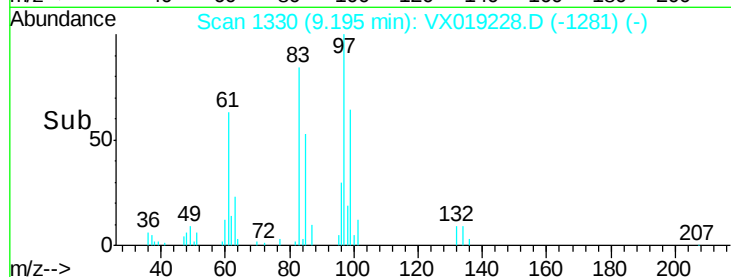
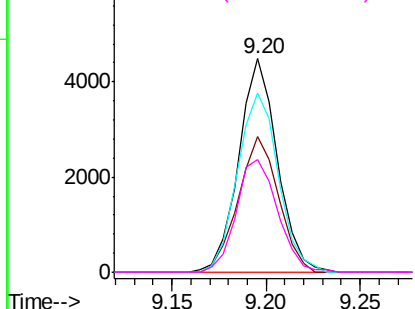
Tot Ion:	97	Resp:	6377
Ion	Ratio	Lower	Upper
97	100		
99	63.6	43.3	80.3
83	84.0	59.4	110.4
85	52.7	38.7	71.9

Manual Integrations
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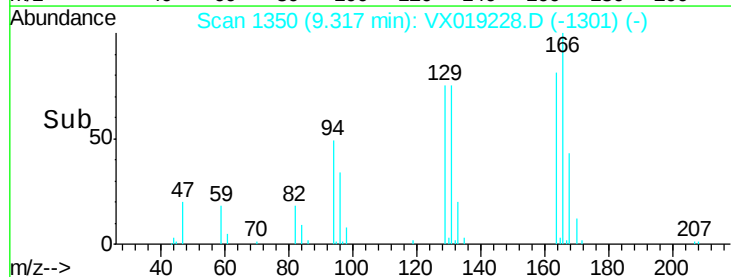
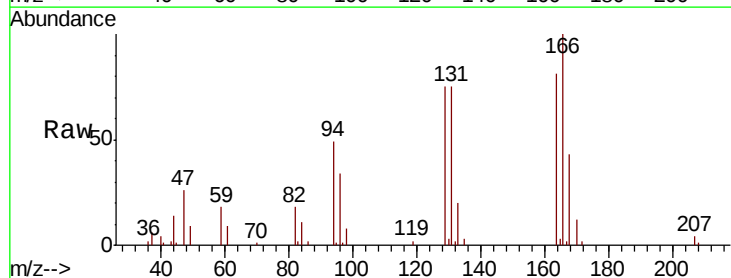
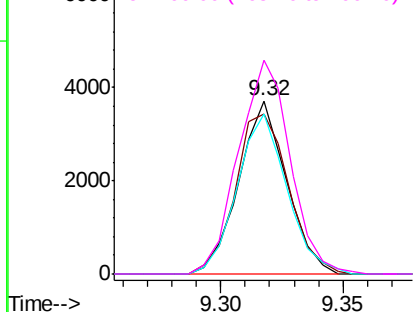
Abundance Ion 97.00 (96.70 to 97.70): VX0
Ion 99.00 (98.70 to 99.70): VX0
Ion 83.00 (82.70 to 83.70): VX0
Ion 85.00 (84.70 to 85.70): VX0

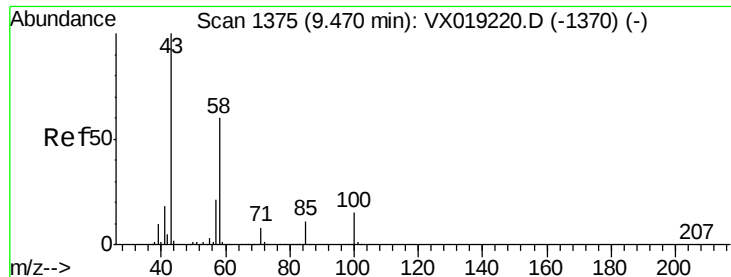


#46
Tetrachloroethene
Concen: 2.144 ug/L
RT: 9.32 min Scan# 1350
Delta R.T. 0.00 min
Lab File: VX019228.D
Acq: 03 Nov 2020 12:40

Tgt Ion:	164	Resp:	5060
Ion	Ratio	Lower	Upper
164	100		
129	92.9	65.2	121.2
131	92.4	62.5	116.1
166	123.5	90.2	167.6

Abundance Ion 164.00 (163.70 to 164.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V
Ion 166.00 (165.70 to 166.70): V





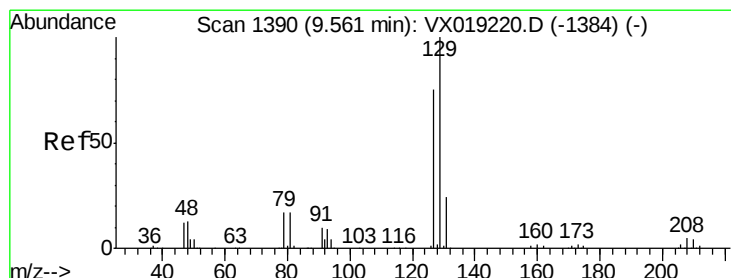
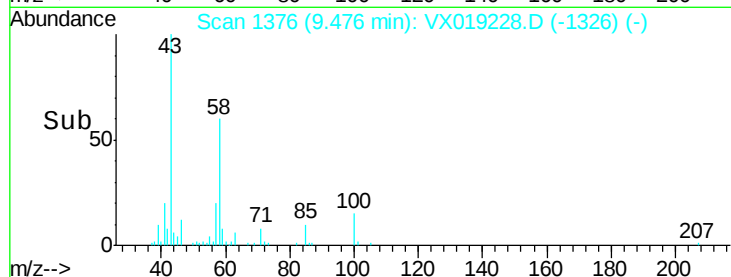
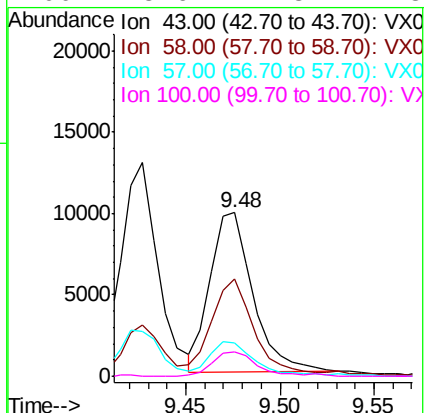
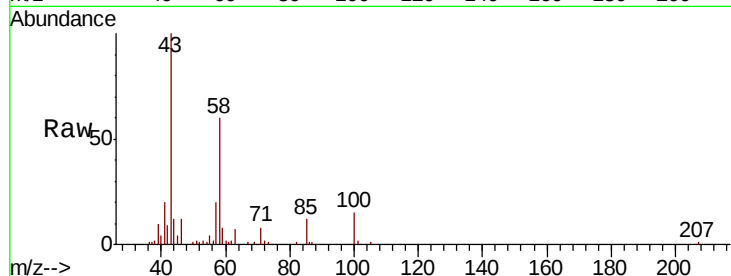
#48
2-Hexanone
Concen: 5.679 ug/L
RT: 9.48 min Scan# 1376
Delta R.T. 0.01 min
Lab File: VX019228.D
Acq: 03 Nov 2020 12:40

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-04

Tot Ion	Ratio	Lower	Upper
43	100		
58	62.3	48.2	72.2
57	22.7	17.1	25.7
100	15.6	11.8	17.8

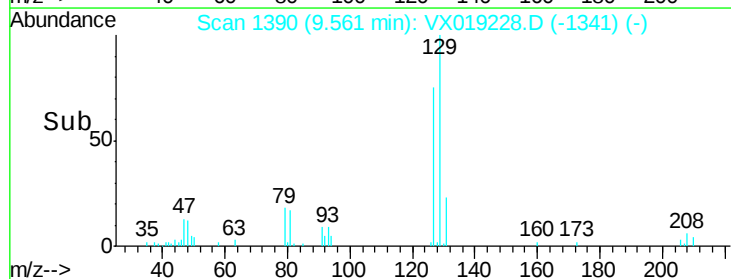
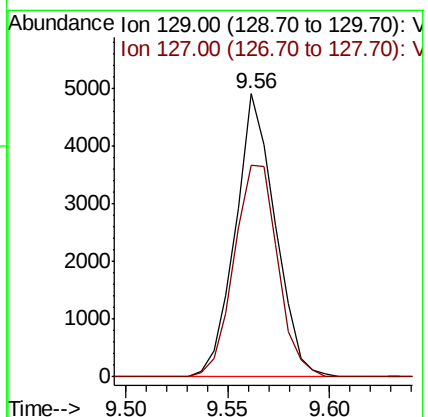
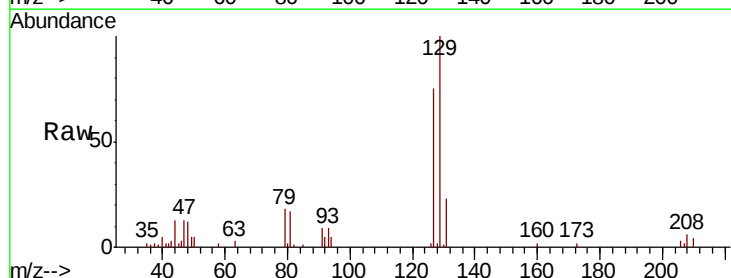
Manual Integrations
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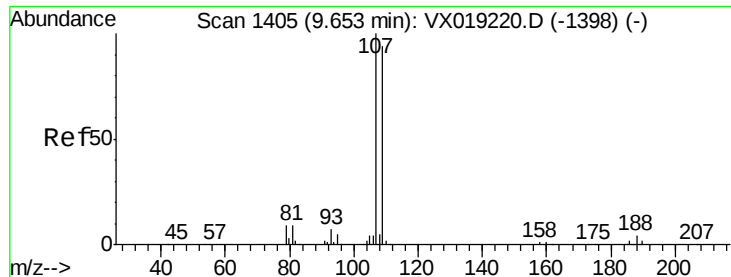
MMDadoda
11/5/2020 10:35:36 AM



#49
Dibromochloromethane
Concen: 2.170 ug/L
RT: 9.56 min Scan# 1390
Delta R.T. 0.00 min
Lab File: VX019228.D
Acq: 03 Nov 2020 12:40

Tgt Ion	Ratio	Lower	Upper
129	100		
127	74.7	54.0	100.2





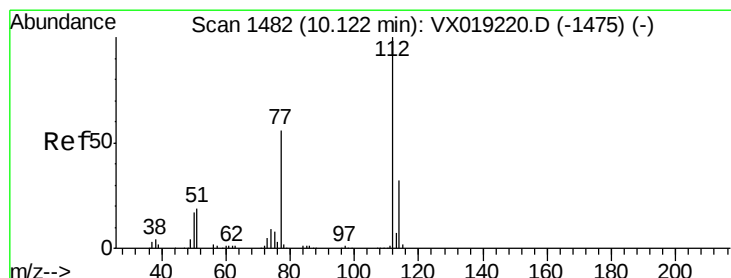
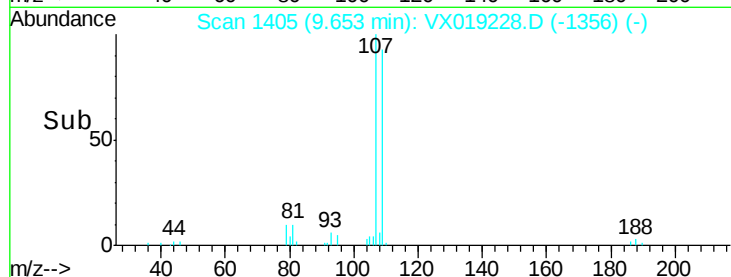
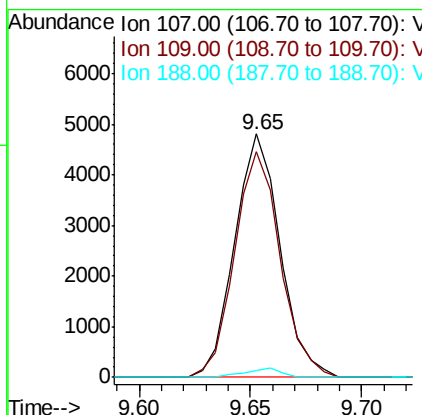
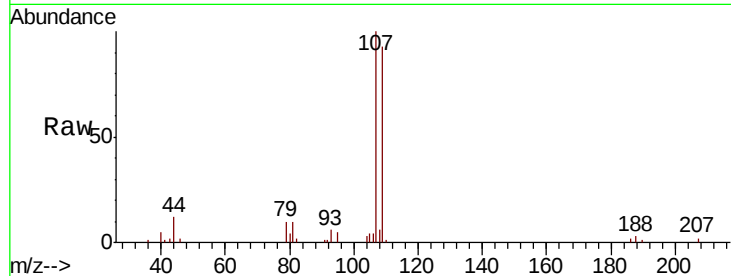
#50
1,2-Dibromoethane
Concen: 2.343 ug/L
RT: 9.65 min Scan# 1405
Delta R.T. 0.00 min
Lab File: VX019228.D
Acq: 03 Nov 2020 12:40

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-04

Tot Ion	Ratio	Lower	Upper
107	100		
109	92.7	68.1	126.5
188	3.0	3.0	4.4

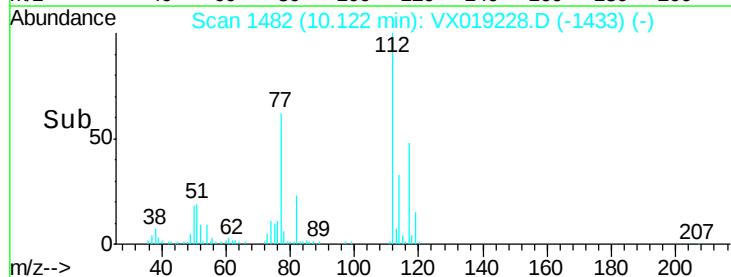
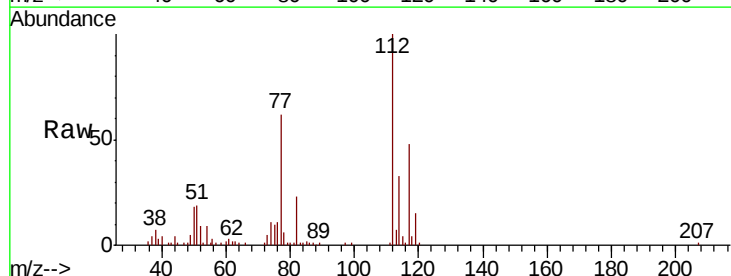
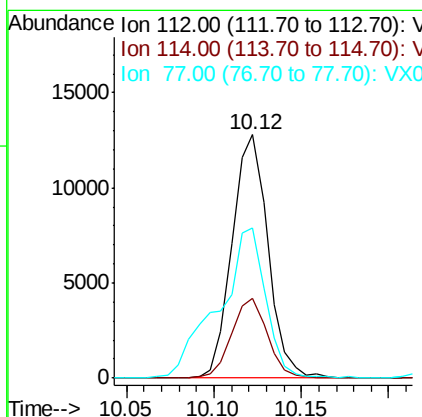
Manual Integrations
APPROVED

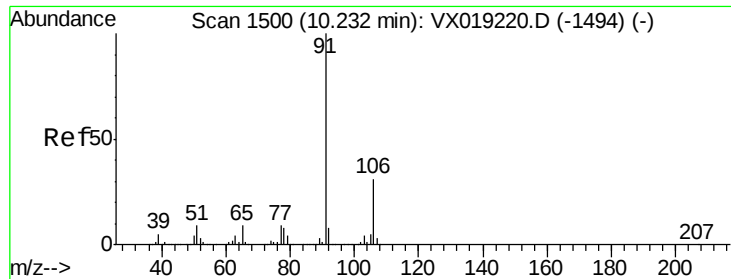
MMDadoda
11/5/2020 10:35:36 AM



#51
Chlorobenzene
Concen: 2.357 ug/L
RT: 10.12 min Scan# 1482
Delta R.T. 0.00 min
Lab File: VX019228.D
Acq: 03 Nov 2020 12:40

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.9	22.2	41.2
77	61.7	46.2	69.4





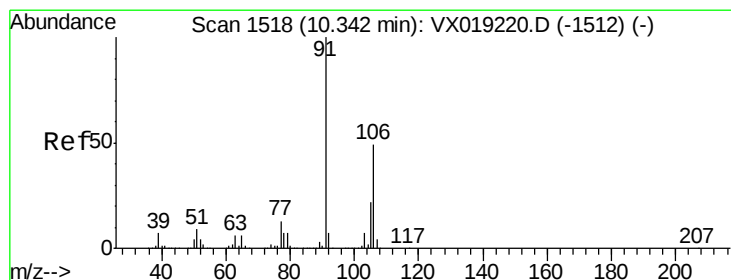
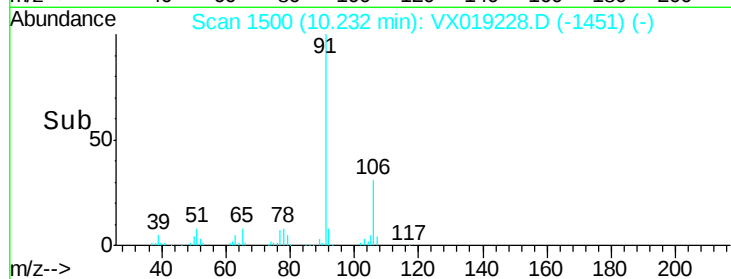
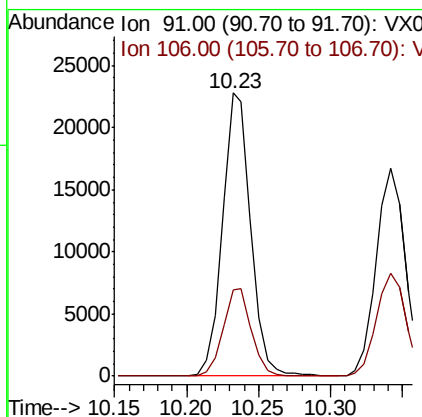
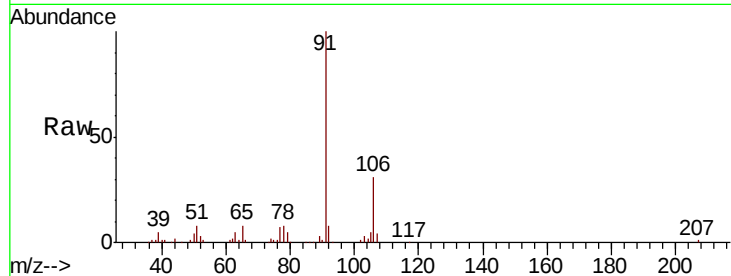
#52
Ethylbenzene
Concen: 2.325 ug/L
RT: 10.23 min Scan# 1500
Delta R.T. 0.00 min
Lab File: VX019228.D
Acq: 03 Nov 2020 12:40

Instrument :
MSVOA_X
ClientSampled :
MDL-WATER-04

Tot Ion: 91 Resp: 31336
Ion Ratio Lower Upper
91 100
106 30.5 21.5 39.9

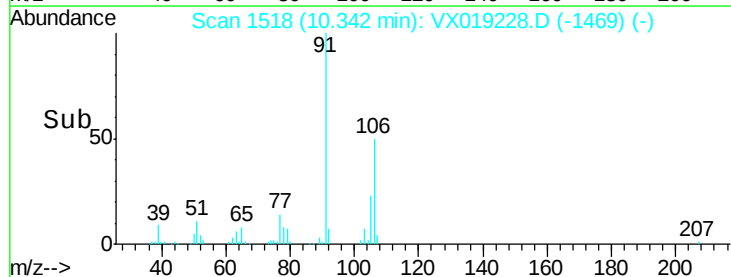
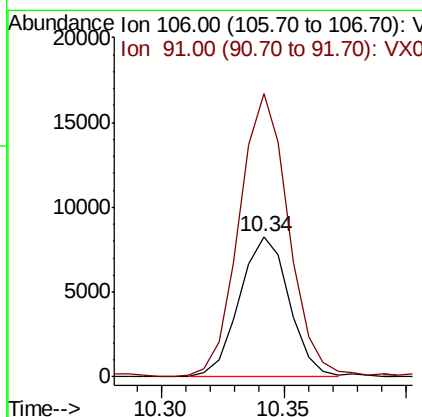
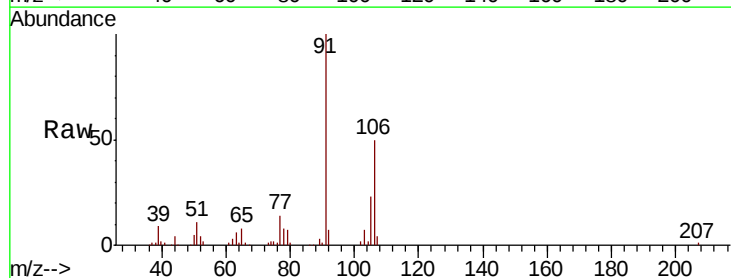
Manual Integrations
APPROVED

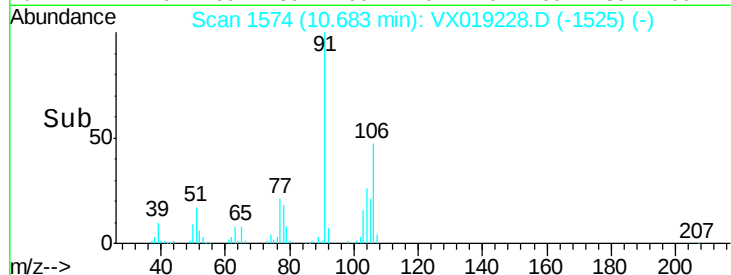
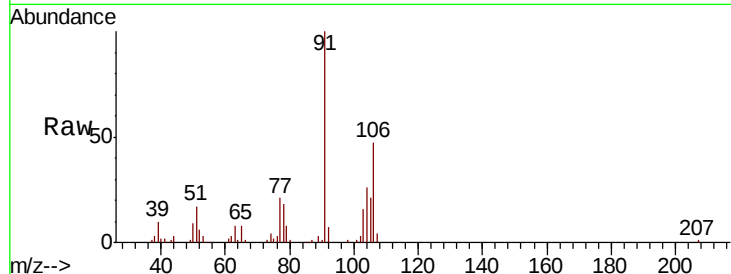
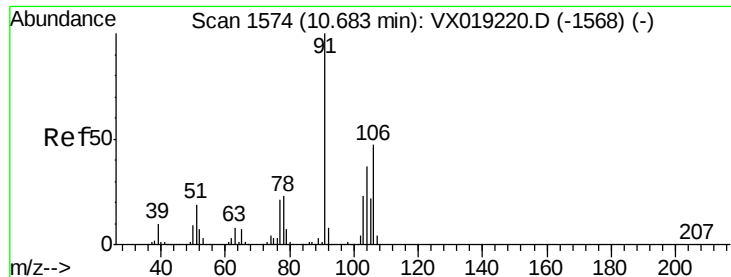
MMDadoda
11/5/2020 10:35:36 AM



#53
m,p-Xylene
Concen: 2.299 ug/L
RT: 10.34 min Scan# 1518
Delta R.T. 0.00 min
Lab File: VX019228.D
Acq: 03 Nov 2020 12:40

Tgt Ion: 106 Resp: 11642
Ion Ratio Lower Upper
106 100
91 201.4 144.2 267.8





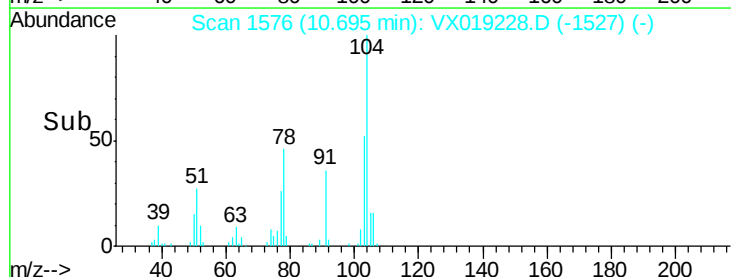
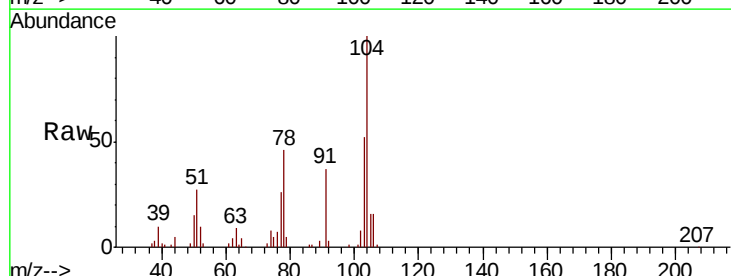
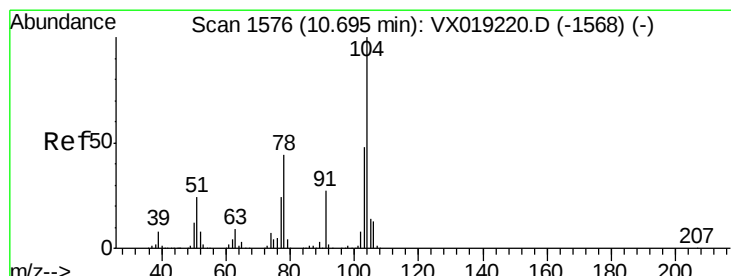
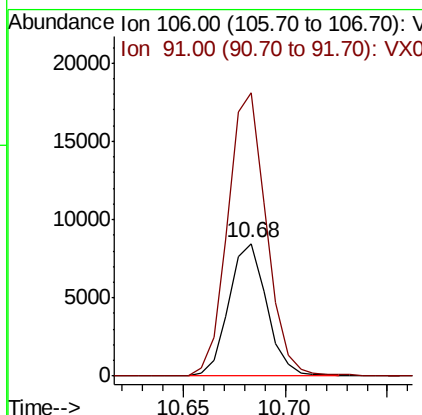
#54
o-Xylene
Concen: 2.233 ug/L
RT: 10.68 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VX019228.D
Acq: 03 Nov 2020 12:40

Tot Ion:106 Resp: 10949
Ion Ratio Lower Upper
106 100
91 213.4 153.3 284.7

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-04

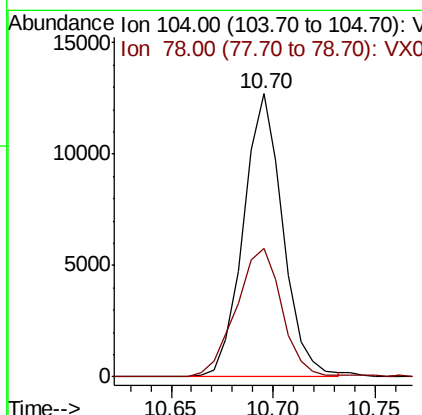
Manual Integrations
APPROVED

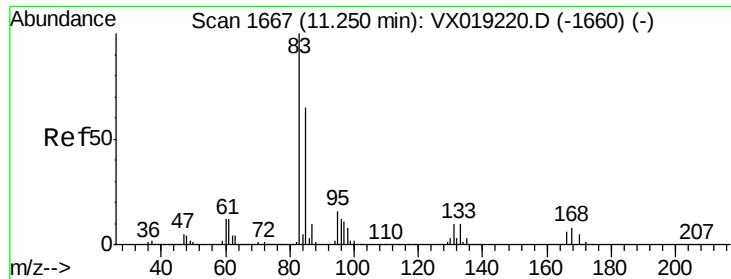
MMDadoda
11/5/2020 10:35:36 AM



#55
Styrene
Concen: 2.066 ug/L
RT: 10.70 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VX019228.D
Acq: 03 Nov 2020 12:40

Tgt Ion:104 Resp: 17089
Ion Ratio Lower Upper
104 100
78 45.5 30.9 57.5





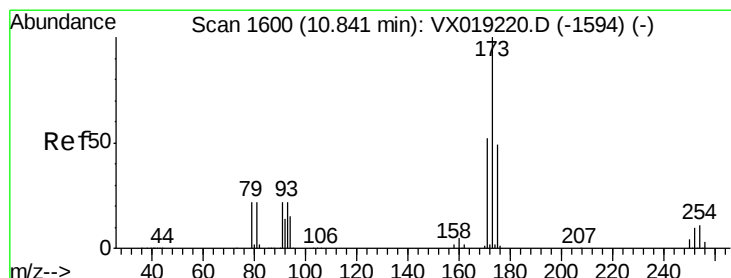
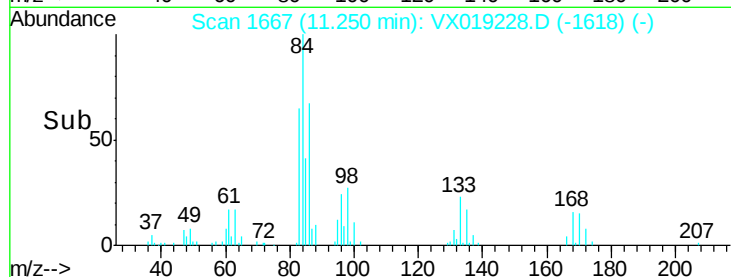
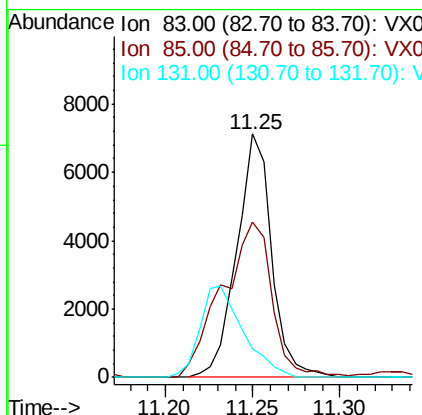
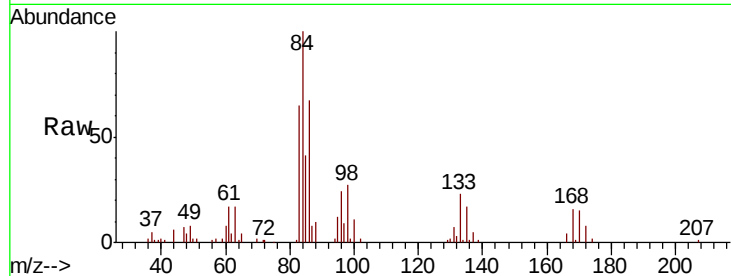
#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.582 ug/L
 RT: 11.25 min Scan# 1667
 Delta R.T. 0.00 min
 Lab File: VX019228.D
 Acq: 03 Nov 2020 12:40

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-04

Tot Ion	Ratio	Lower	Upper
83	100		
85	64.0	45.9	85.3
131	11.6	7.7	11.5

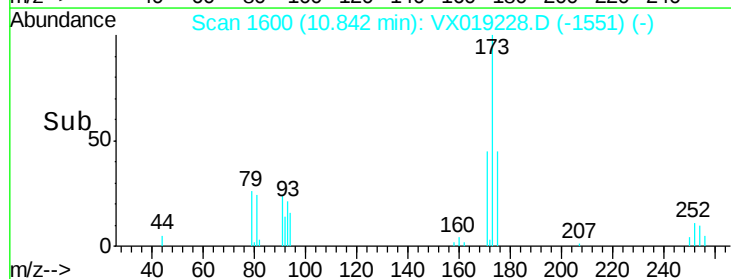
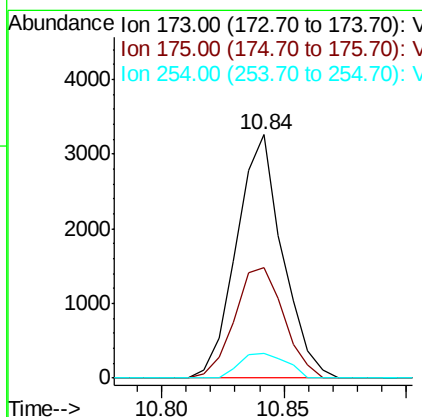
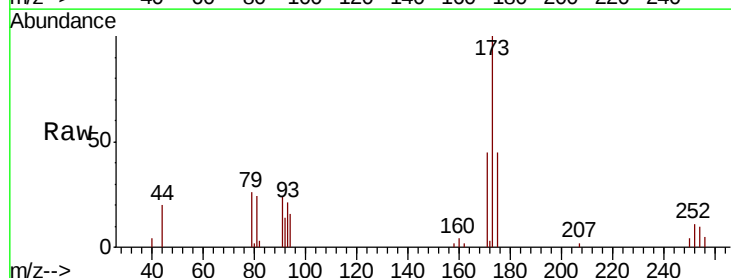
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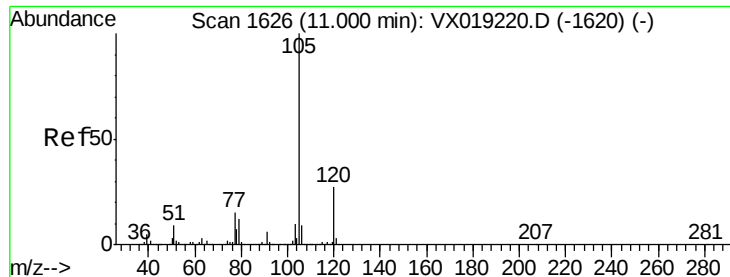
MMDadoda
 11/5/2020 10:35:36 AM



#59
 Bromoform
 Concen: 2.110 ug/L
 RT: 10.84 min Scan# 1600
 Delta R.T. 0.00 min
 Lab File: VX019228.D
 Acq: 03 Nov 2020 12:40

Tgt Ion	Ratio	Lower	Upper
173	100		
175	48.4	39.7	59.5
254	10.3	8.2	12.4





#60

Isopropylbenzene

Concen: 2.294 ug/L

RT: 11.00 min Scan# 1626

Delta R.T. 0.00 min

Lab File: VX019228.D

Acq: 03 Nov 2020 12:40

Instrument :

MSVOA_X

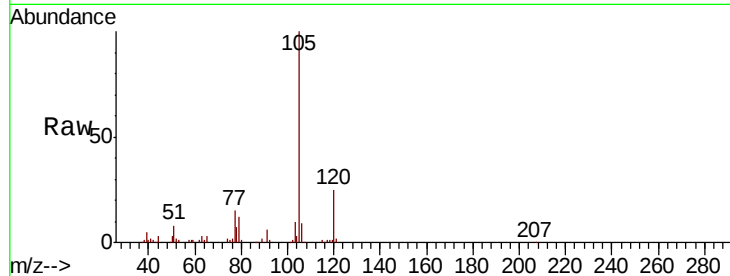
ClientSampleId :

MDL-WATER-04

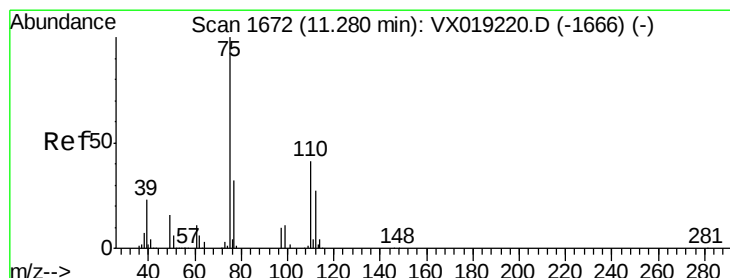
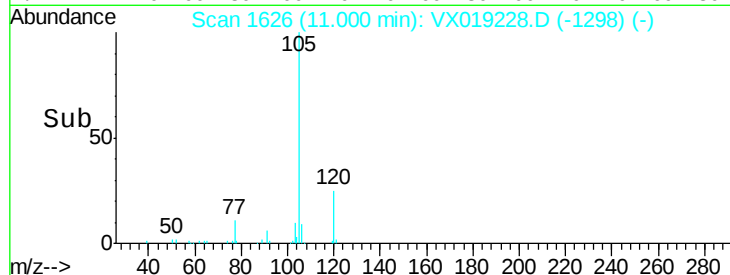
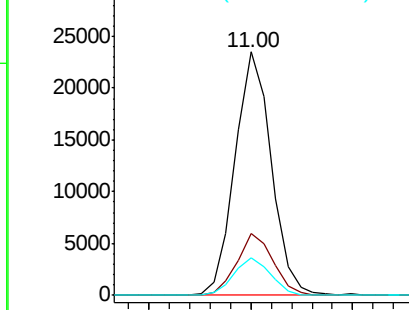
Tot Ion:	105	Resp:	29074
Ion Ratio	Lower	Upper	
105	100		
120	25.5	21.1	31.7
77	15.6	12.6	19.0

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Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V
Ion 77.00 (76.70 to 77.70): V



#61

1,2,3-Trichloropropane

Concen: 2.619 ug/L

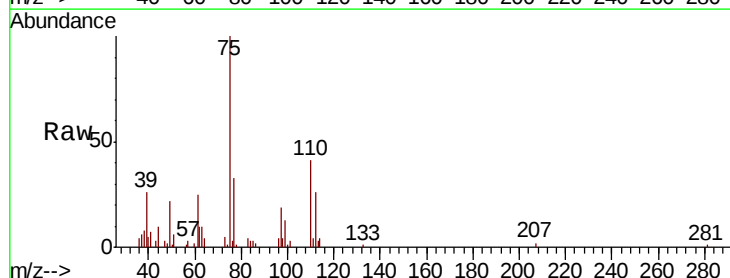
RT: 11.28 min Scan# 1672

Delta R.T. 0.00 min

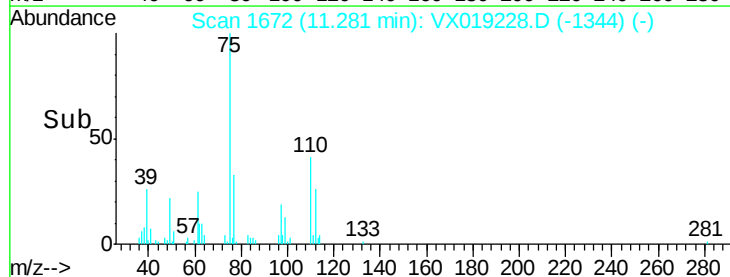
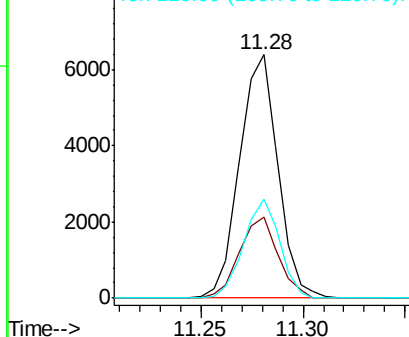
Lab File: VX019228.D

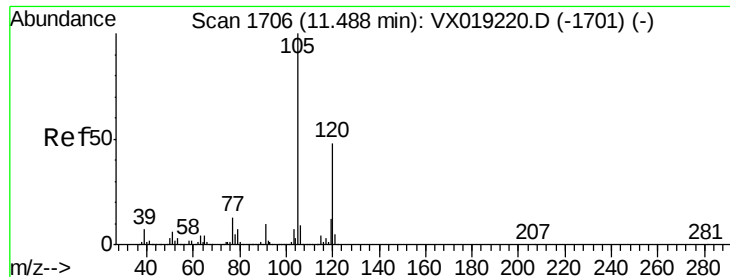
Acq: 03 Nov 2020 12:40

Tgt Ion:	75	Resp:	8331
Ion Ratio	Lower	Upper	
75	100		
77	33.5	25.4	38.0
110	38.5	32.2	48.2



Abundance Ion 75.00 (74.70 to 75.70): VX0
Ion 77.00 (76.70 to 77.70): VX0
Ion 110.00 (109.70 to 110.70): V





#62

1,3,5-Trimethylbenzene

Concen: 2.199 ug/L

RT: 11.49 min Scan# 1706

Delta R.T. 0.00 min

Lab File: VX019228.D

Acq: 03 Nov 2020 12:40

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-04

Tot Ion:105 Resp: 22927

Ion Ratio Lower Upper

105 100

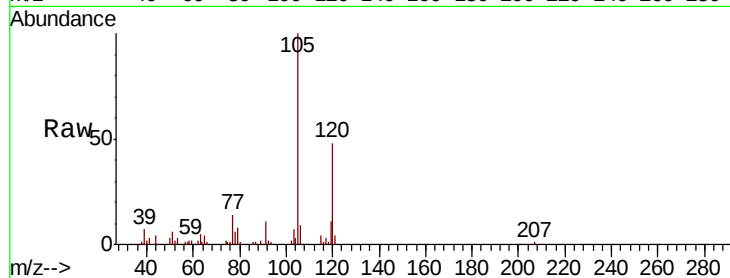
120 45.6 38.8 58.2

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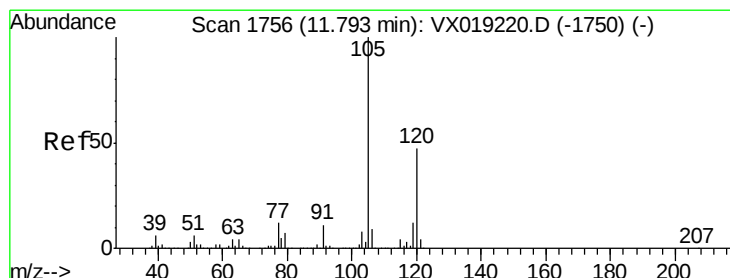
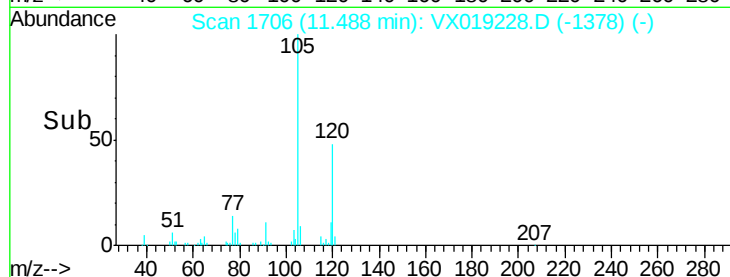
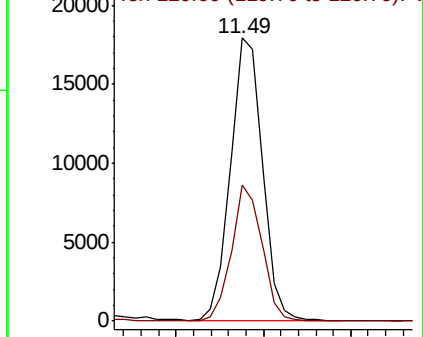
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#63

1,2,4-Trimethylbenzene

Concen: 2.274 ug/L

RT: 11.79 min Scan# 1756

Delta R.T. 0.00 min

Lab File: VX019228.D

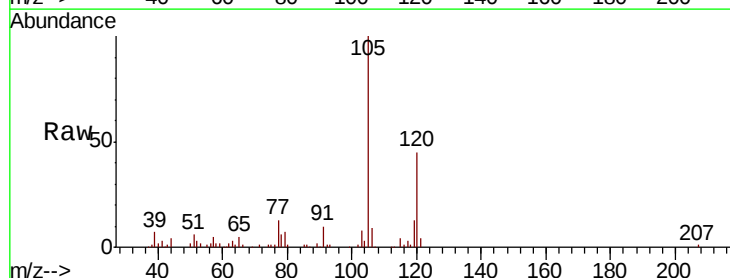
Acq: 03 Nov 2020 12:40

Tgt Ion:105 Resp: 22422

Ion Ratio Lower Upper

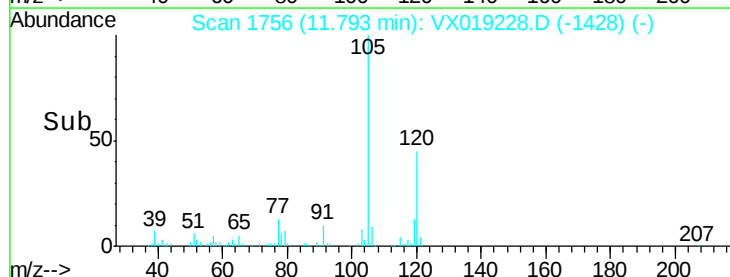
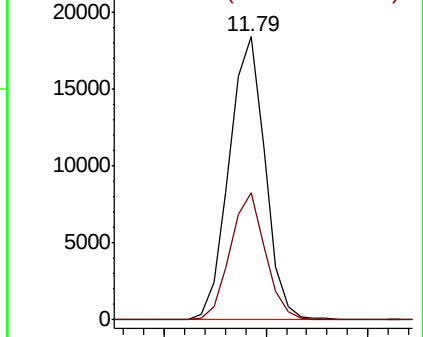
105 100

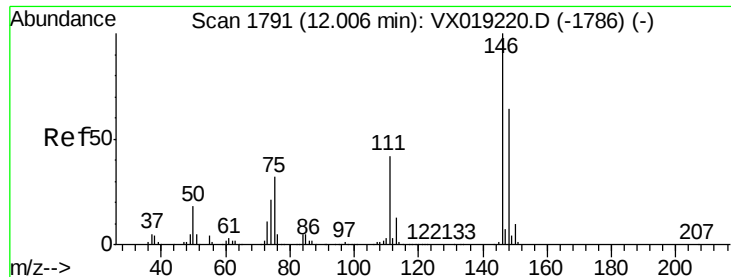
120 44.2 36.0 54.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#64

1,3-Dichlorobenzene

Concen: 2.272 ug/L

RT: 12.01 min Scan# 1791

Delta R.T. 0.00 min

Lab File: VX019228.D

Acq: 03 Nov 2020 12:40

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-04

Tot Ion:146 Resp: 12428

Ion Ratio Lower Upper

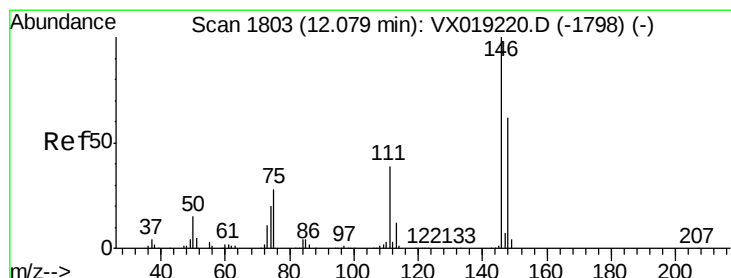
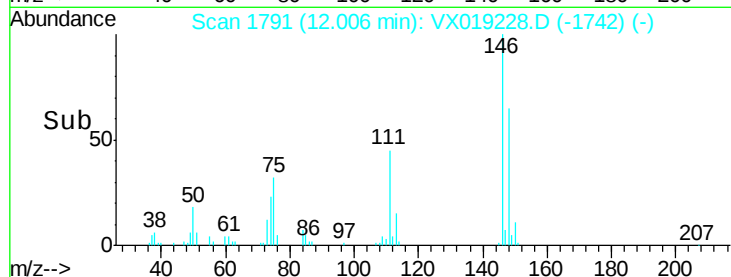
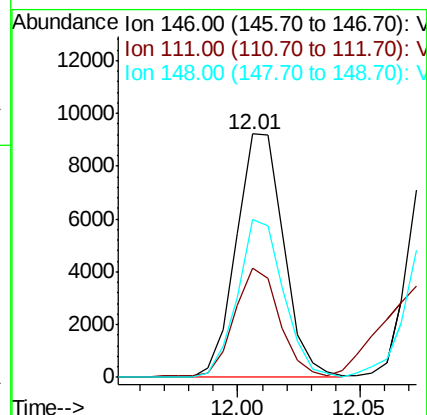
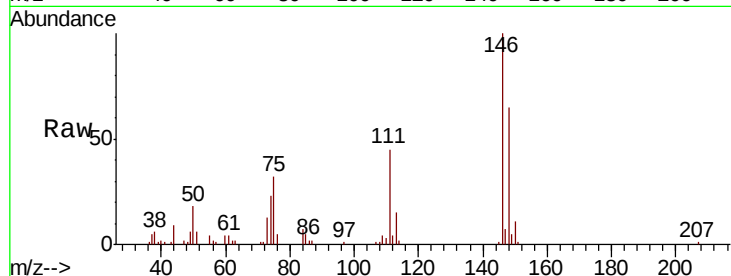
146 100

111 45.1 29.7 55.1

148 64.7 44.5 82.7

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#65

1,4-Dichlorobenzene

Concen: 2.361 ug/L

RT: 12.08 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VX019228.D

Acq: 03 Nov 2020 12:40

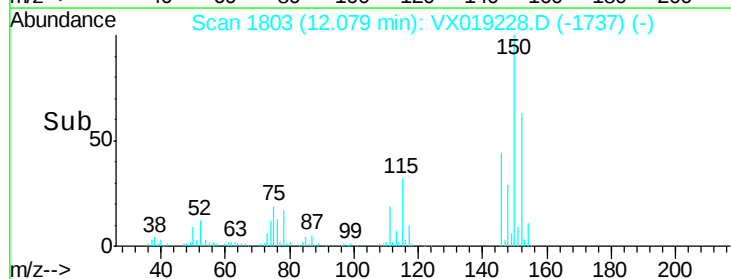
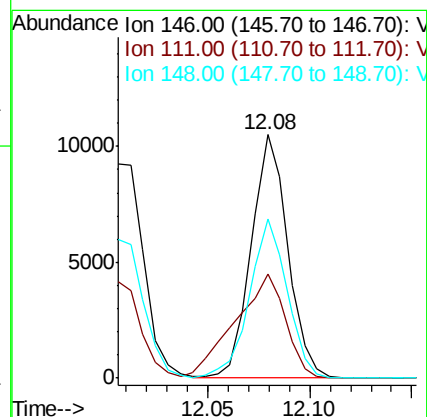
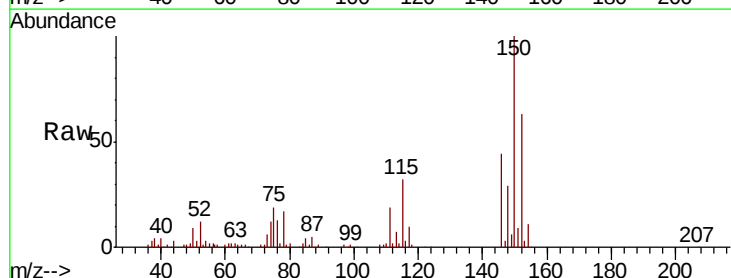
Tgt Ion:146 Resp: 13106

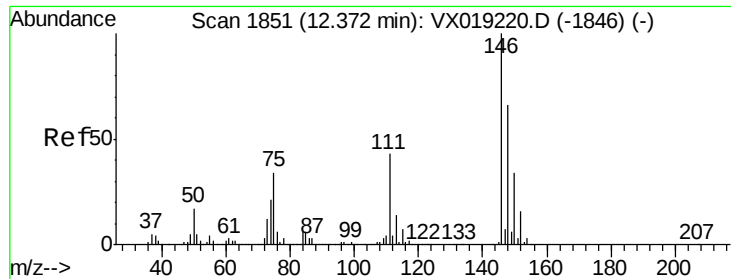
Ion Ratio Lower Upper

146 100

111 42.6 28.1 52.3

148 65.4 43.8 81.4





#67

1,2-Dichlorobenzene

Concen: 2.374 ug/L

RT: 12.38 min Scan# 1852

Delta R.T. 0.01 min

Lab File: VX019228.D

Acq: 03 Nov 2020 12:40

Instrument :

MSVOA_X

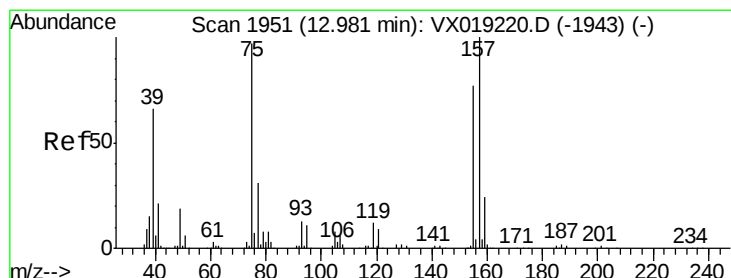
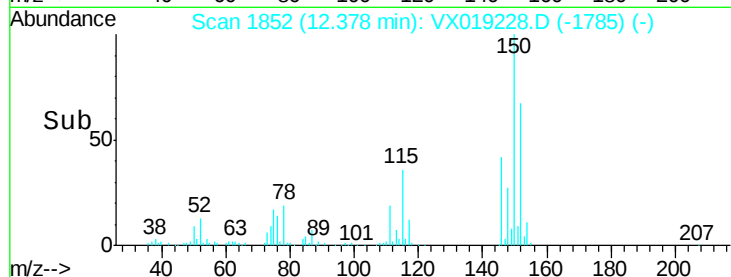
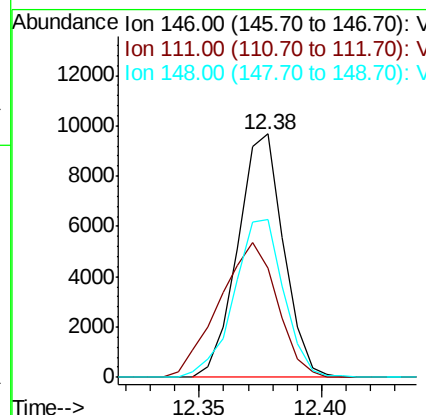
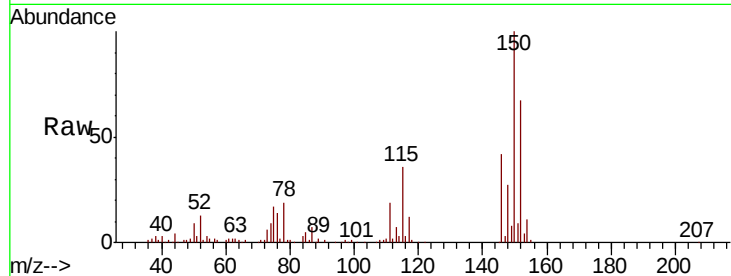
ClientSampleId :

MDL-WATER-04

Tot Ion:	146	Resp:	12576
Ion Ratio	Lower	Upper	
146	100		
111	44.8	35.9	53.9
148	64.6	52.2	78.4

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#68

1,2-Dibromo-3-chloropropane

Concen: 2.286 ug/L

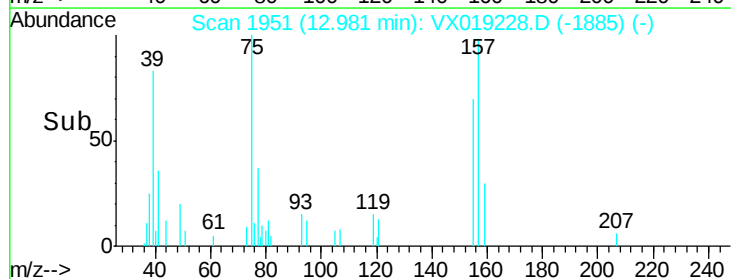
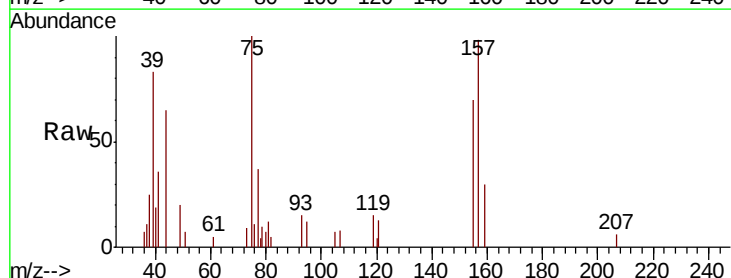
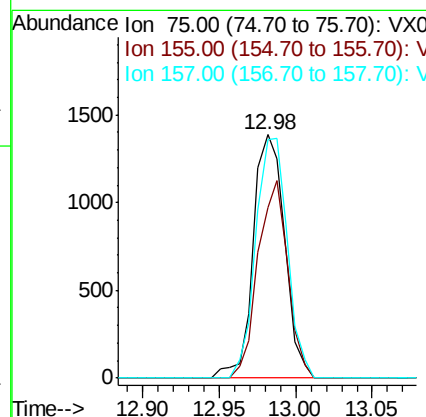
RT: 12.98 min Scan# 1951

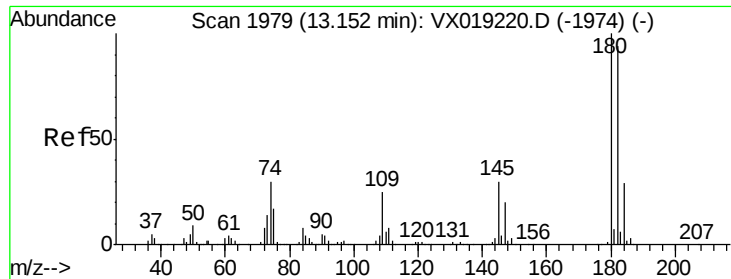
Delta R.T. 0.00 min

Lab File: VX019228.D

Acq: 03 Nov 2020 12:40

Tgt Ion:	75	Resp:	1980
Ion Ratio	Lower	Upper	
75	100		
155	70.0	65.8	98.8
157	97.8	82.6	123.8





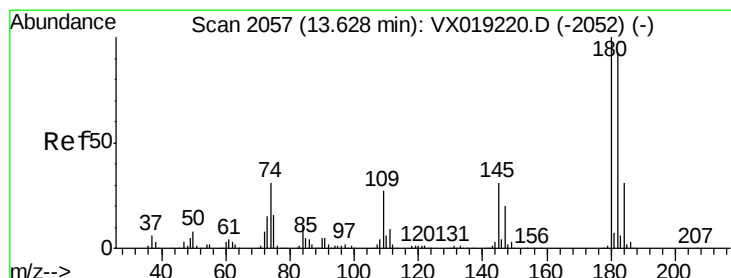
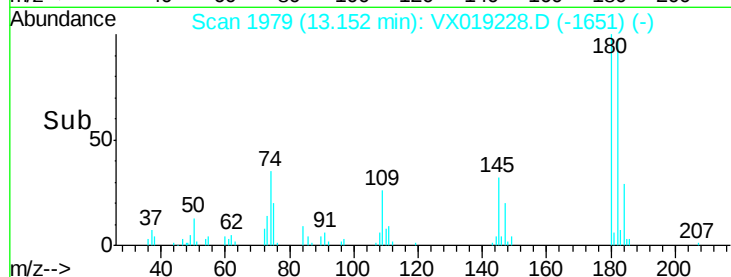
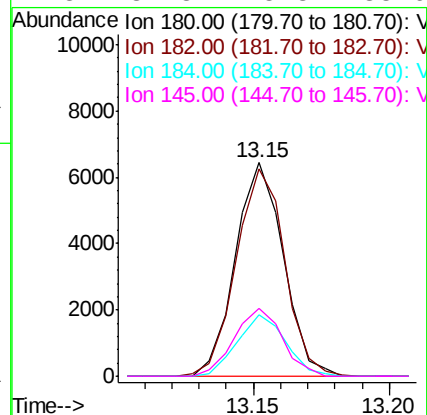
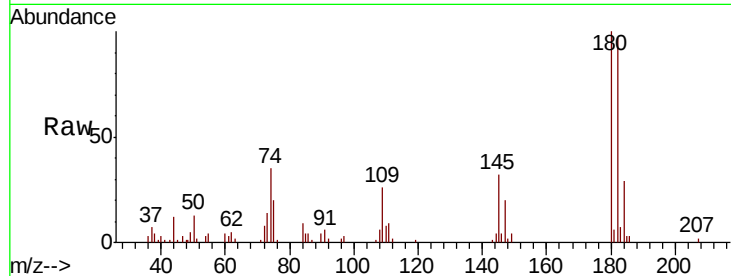
#69
 1,3,5-Trichlorobenzene
 Concen: 2.053 ug/L
 RT: 13.15 min Scan# 1979
 Delta R.T. 0.00 min
 Lab File: VX019228.D
 Acq: 03 Nov 2020 12:40

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-04

Tot Ion:	180	Resp:	7868
Ion	Ratio	Lower	Upper
180	100		
182	98.4	78.8	118.2
184	29.3	25.2	37.8
145	31.8	25.8	38.6

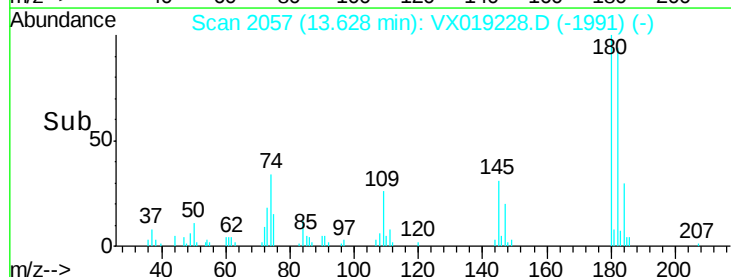
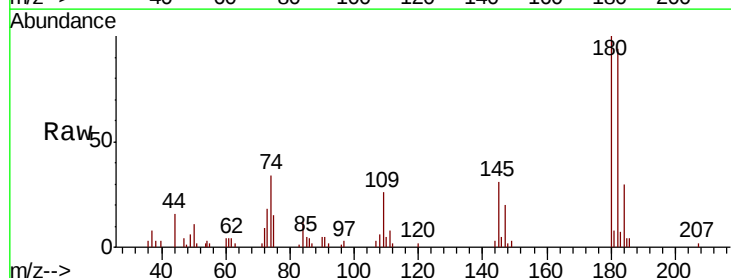
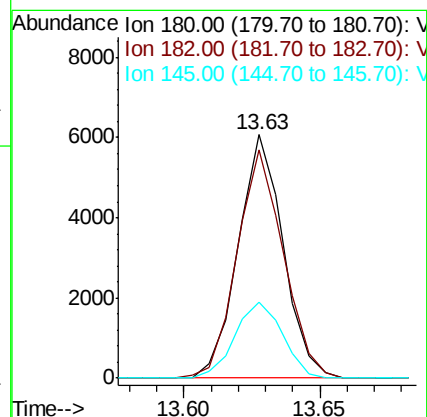
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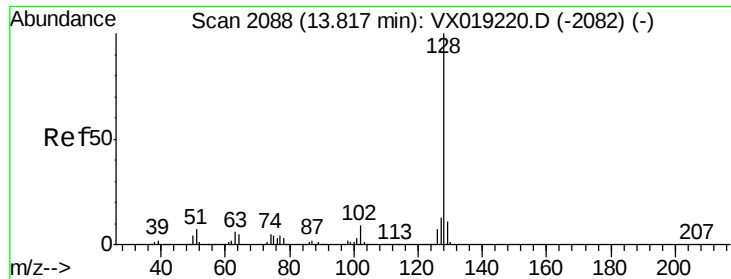
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 11/5/2020 10:35:36 AM



#70
 1,2,4-trichlorobenzene
 Concen: 1.965 ug/L
 RT: 13.63 min Scan# 2057
 Delta R.T. 0.00 min
 Lab File: VX019228.D
 Acq: 03 Nov 2020 12:40

Tgt Ion:	180	Resp:	6940
Ion	Ratio	Lower	Upper
180	100		
182	96.9	74.6	111.8
145	33.0	25.4	38.0





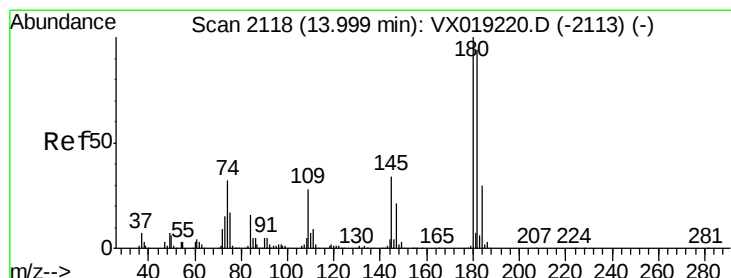
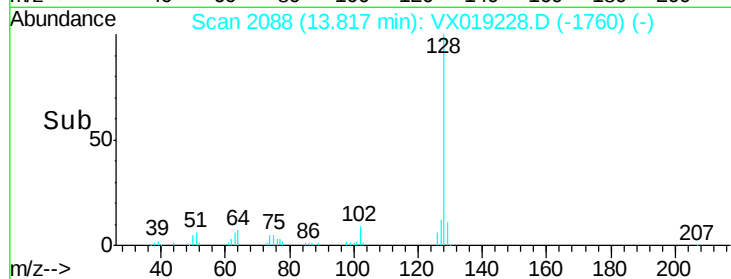
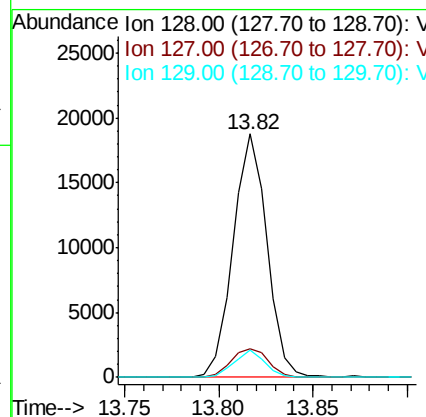
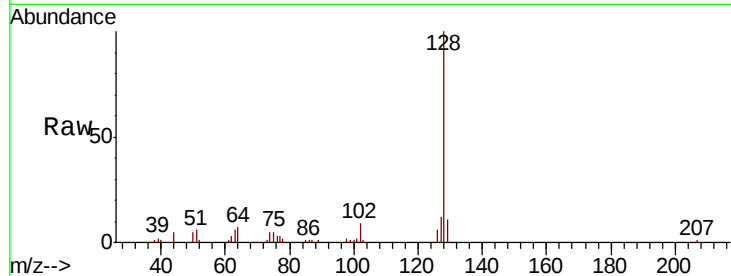
#71
Naphthalene
Concen: 2.049 ug/L
RT: 13.82 min Scan# 2088
Delta R.T. 0.00 min
Lab File: VX019228.D
Acq: 03 Nov 2020 12:40

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-04

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.1	15.1
129	10.3	8.5	12.7

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#72
1,2,3-Trichlorobenzene
Concen: 2.088 ug/L
RT: 14.01 min Scan# 2119
Delta R.T. 0.01 min
Lab File: VX019228.D
Acq: 03 Nov 2020 12:40

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.8	75.3	112.9
145	33.8	27.1	40.7

