

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX102920\
 Data File : VX019176.D
 Acq On : 28 Oct 2020 20:50
 Operator : JC/MD
 Sample : L4485-08
 Misc : 25.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-01

Manual Integrations
 APPROVED

MMDadoda
 10/29/2020 11:04:27 AM

Quant Time: Oct 29 06:54:55 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\SFAMXTR102920WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Oct 29 06:24:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.83	114	188692	5.00	ug/L	0.00
28) Chlorobenzene-d5	10.10	117	169042	5.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	12.06	152	77205	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	65121	5.34	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	106.80%
7) Chloroethane-d5	1.70	69	52806	5.19	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	103.80%
11) 1,1-Dichloroethene-d2	2.34	63	93746	3.93	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	78.60%
20) 2-Butanone-d5	4.56	46	142414	53.38	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	106.76%
24) Chloroform-d	5.14	84	116434	5.06	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.20%
26) 1,2-Dichloroethane-d4	6.03	65	62995	4.86	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.20%
32) Benzene-d6	6.04	84	243377	5.28	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	105.60%
36) 1,2-Dichloropropane-d6	7.37	67	69960	5.36	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	107.20%
41) Toluene-d8	8.70	98	225611	4.97	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.40%
43) trans-1,3-Dichloropropene-	8.99	79	28309	5.04	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	100.80%
46) 2-Hexanone-d5	9.43	63	132545	53.88	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	107.76%
56) 1,1,2,2-Tetrachloroethane-	11.23	84	51207	5.11	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	102.20%
66) 1,2-Dichlorobenzene-d4	12.36	152	77896	5.44	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	108.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	3211	0.206 ug/L	98
3) Chloromethane	1.31	50	3112	0.231 ug/L	97
5) Vinyl chloride	1.39	62	3491	0.230 ug/L	84
6) Bromomethane	1.64	94	2500	0.256 ug/L	97
8) Chloroethane	1.72	64	2099	0.228 ug/L	94
9) Trichlorofluoromethane	1.92	101	4375	0.200 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.37	101	3397	0.273 ug/L #	84
12) 1,1-Dichloroethene	2.36	96	3344	0.276 ug/L #	1
13) Acetone	2.45	43	2984m	1.962 ug/L	
14) Carbon disulfide	2.55	76	7948	0.212 ug/L #	93
15) Methyl Acetate	2.76	43	805m	0.198 ug/L	
16) Methylene chloride	2.83	84	4858	0.337 ug/L	97
17) Methyl tert-butyl Ether	3.17	73	5969	0.206 ug/L #	90
18) trans-1,2-Dichloroethene	3.14	96	2562	0.201 ug/L	95
19) 1,1-Dichloroethane	3.67	63	4247	0.195 ug/L	92
21) 2-Butanone	4.68	43	4914	1.839 ug/L	77
22) cis-1,2-Dichloroethene	4.56	96	2795	0.206 ug/L	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX102920\
 Data File : VX019176.D
 Acq On : 28 Oct 2020 20:50
 Operator : JC/MD
 Sample : L4485-08
 Misc : 25.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-01

Manual Integrations
 APPROVED

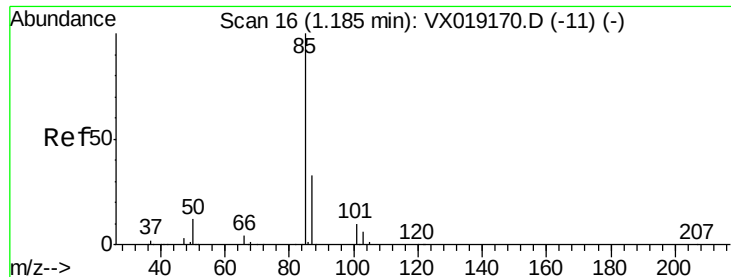
MMDadoda
 10/29/2020 11:04:27 AM

Quant Time: Oct 29 06:54:55 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\SFAMXTR102920WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Oct 29 06:24:00 2020
 Response via : Initial Calibration

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

23) Bromochloromethane	4.99	128	1108	0.197	ug/L #	96
25) Chloroform	5.17	83	5531	0.244	ug/L	92
27) 1,2-Dichloroethane	6.17	62	3199	0.226	ug/L #	93
29) 1,1,1-Trichloroethane	5.46	97	4123	0.198	ug/L	97
30) Cyclohexane	5.54	56	4387	0.211	ug/L	99
31) Carbon tetrachloride	5.75	117	3344	0.188	ug/L	98
33) Benzene	6.11	78	10192	0.202	ug/L	100
34) Trichloroethene	7.18	95	2909	0.211	ug/L	88
35) Methylcyclohexane	7.43	83	4374	0.196	ug/L	97
37) 1,2-Dichloropropane	7.48	63	2518	0.212	ug/L #	92
38) Bromodichloromethane	7.88	83	2907	0.188	ug/L	94
39) cis-1,3-Dichloropropene	8.42	75	3478	0.191	ug/L	97
40) 4-Methyl-2-pentanone	8.62	43	13034	2.057	ug/L #	85
42) Toluene	8.76	91	10902	0.200	ug/L	95
44) trans-1,3-Dichloropropene	9.02	75	2785m	0.182	ug/L	
45) 1,1,2-Trichloroethane	9.20	97	1721	0.199	ug/L	89
47) Tetrachloroethene	9.32	164	2157	0.205	ug/L	87
48) 2-Hexanone	9.48	43	9821	2.215	ug/L	96
49) Dibromochloromethane	9.57	129	1884	0.188	ug/L	100
50) 1,2-Dibromoethane	9.65	107	1672	0.208	ug/L #	88
51) Chlorobenzene	10.12	112	6945	0.202	ug/L	96
52) Ethylbenzene	10.23	91	11613	0.191	ug/L	95
53) m,p-xylene	10.34	106	4586	0.196	ug/L	99
54) o-xylene	10.68	106	4302	0.192	ug/L	96
55) Styrene	10.70	104	6444	0.176	ug/L	91
57) 1,1,2,2-Tetrachloroethane	11.25	83	2142	0.217	ug/L #	93
59) Bromoform	10.84	173	860	0.170	ug/L #	95
60) Isopropylbenzene	11.00	105	11412	0.201	ug/L	97
61) 1,2,3-Trichloropropane	11.28	75	1545	0.223	ug/L	98
62) 1,3,5-Trimethylbenzene	11.49	105	9023	0.190	ug/L	97
63) 1,2,4-Trimethylbenzene	11.79	105	9268	0.193	ug/L	98
64) 1,3-Dichlorobenzene	12.01	146	5215	0.207	ug/L	96
65) 1,4-Dichlorobenzene	12.08	146	5507	0.219	ug/L	97
67) 1,2-Dichlorobenzene	12.38	146	4804	0.207	ug/L	93
68) 1,2-Dibromo-3-chloropropan	12.99	75	311	0.196	ug/L #	84
69) 1,3,5-Trichlorobenzene	13.15	180	3646	0.197	ug/L	97
70) 1,2,4-trichlorobenzene	13.63	180	3161	0.196	ug/L	98
71) Naphthalene	13.82	128	5084	0.175	ug/L	97
72) 1,2,3-Trichlorobenzene	14.00	180	2771	0.195	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 0.206 ug/L

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX019176.D

Acq: 28 Oct 2020 20:50

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-01

Tot Ion: 85 Resp: 3211

Ion Ratio Lower Upper

85 100

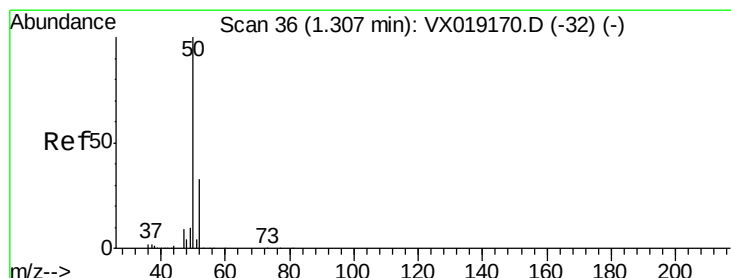
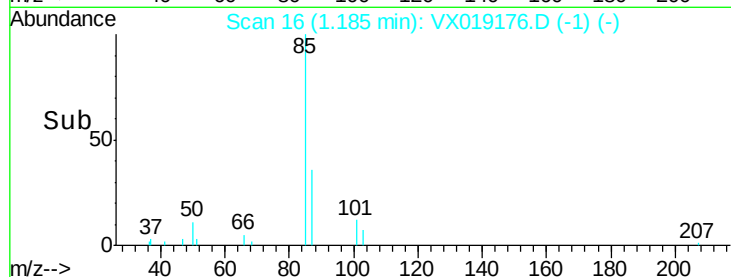
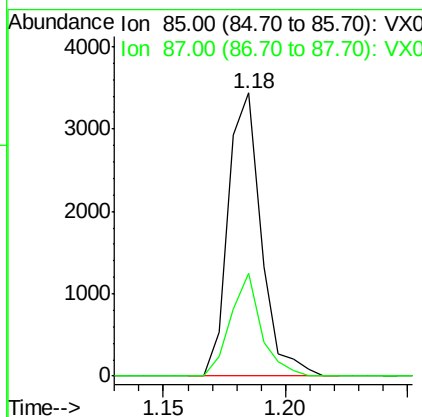
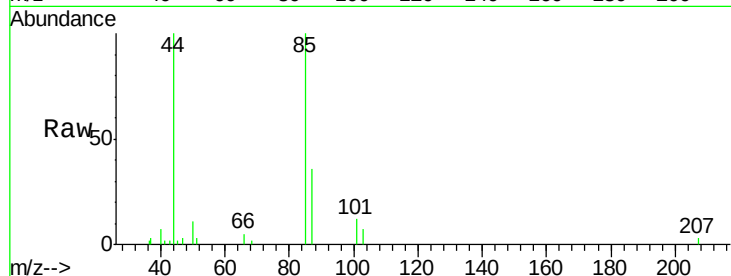
87 33.7 26.1 39.1

Manual Integrations

APPROVED

MMDadoda

10/29/2020 11:04:27 AM



#3

Chloromethane

Concen: 0.231 ug/L

RT: 1.31 min Scan# 36

Delta R.T. 0.00 min

Lab File: VX019176.D

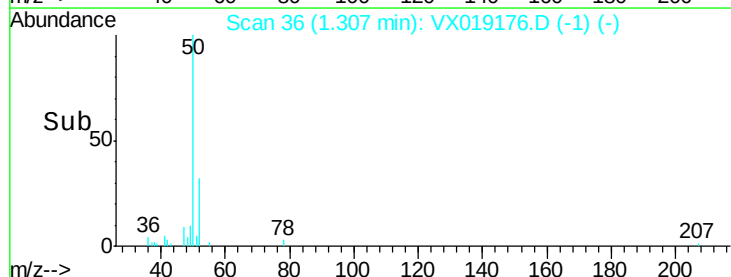
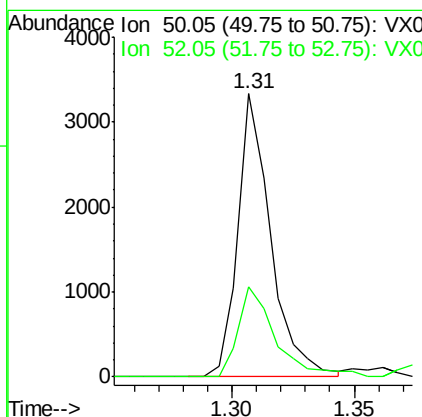
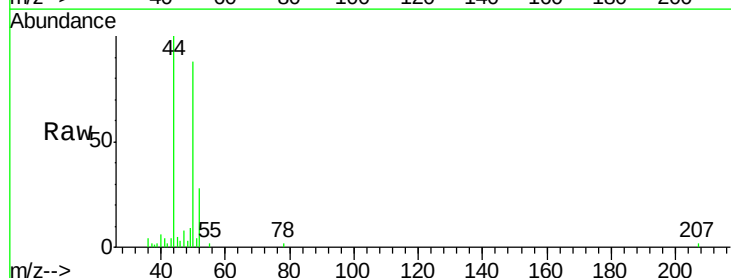
Acq: 28 Oct 2020 20:50

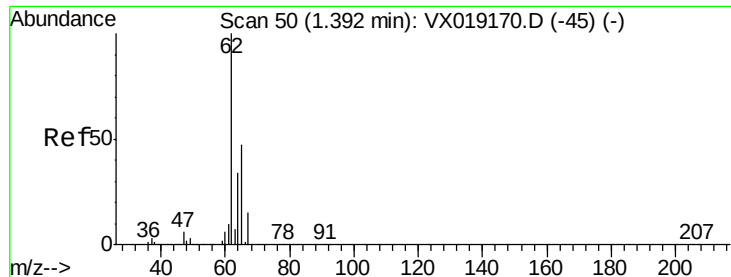
Tgt Ion: 50 Resp: 3112

Ion Ratio Lower Upper

50 100

52 31.7 23.4 43.6





#5

Vinyl chloride

Concen: 0.230 ug/L

RT: 1.39 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX019176.D

Acq: 28 Oct 2020 20:50

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-01

Tot Ion: 62 Resp: 3491

Ion Ratio Lower Upper

62 100

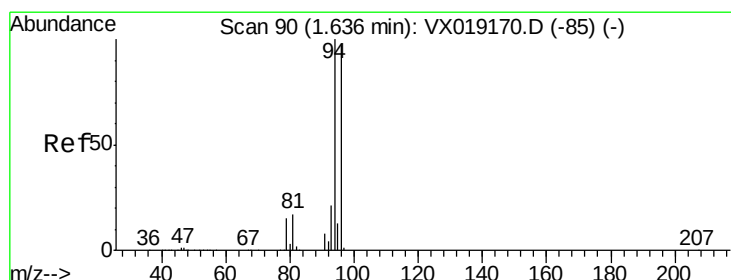
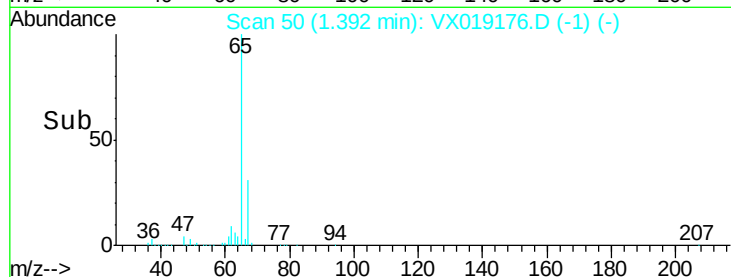
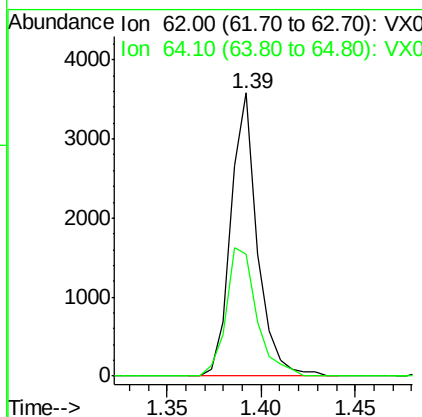
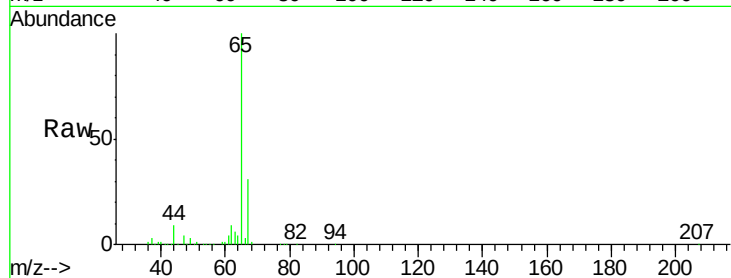
64 43.0 23.5 43.7

Manual Integrations

APPROVED

MMDadoda

10/29/2020 11:04:27 AM



#6

Bromomethane

Concen: 0.256 ug/L

RT: 1.64 min Scan# 90

Delta R.T. 0.00 min

Lab File: VX019176.D

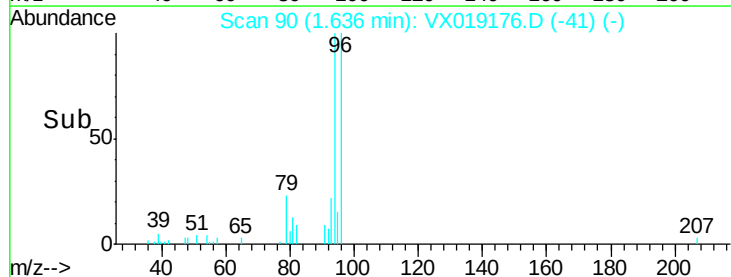
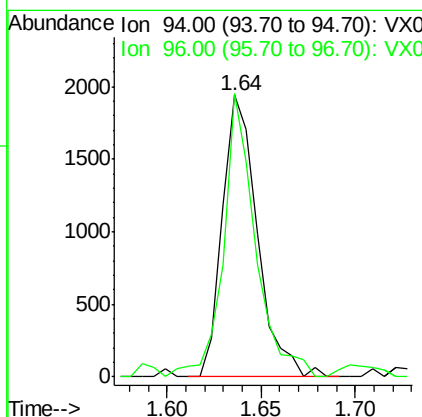
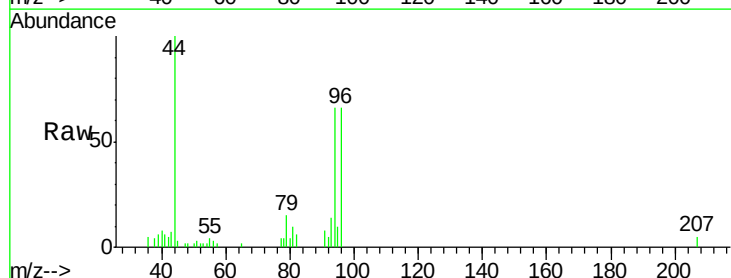
Acq: 28 Oct 2020 20:50

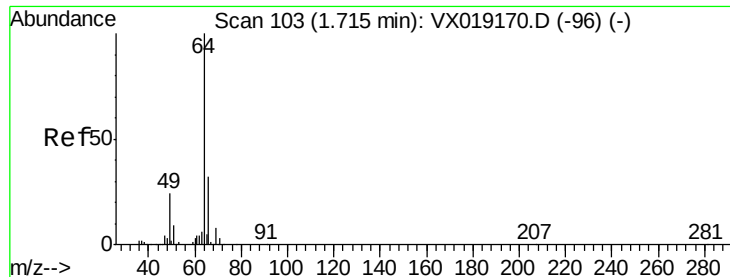
Tgt Ion: 94 Resp: 2500

Ion Ratio Lower Upper

94 100

96 100.4 67.9 126.1





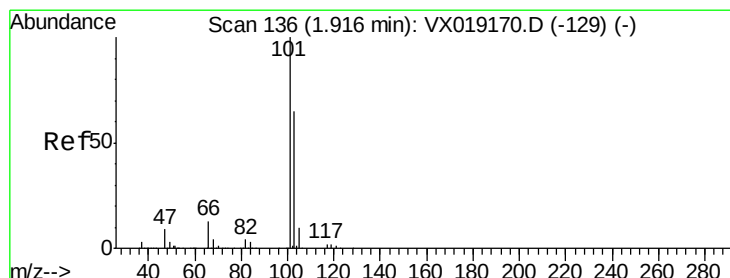
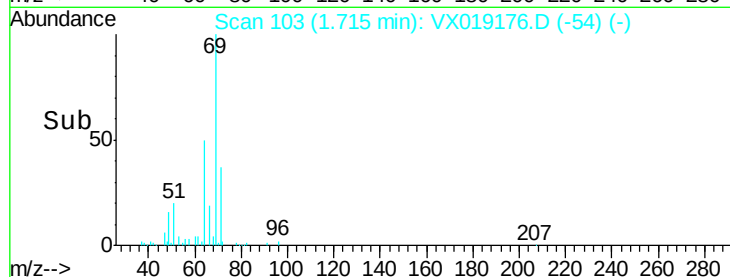
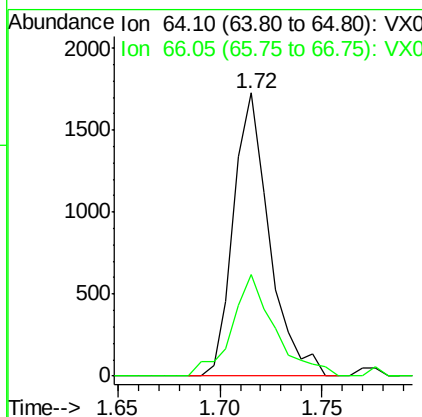
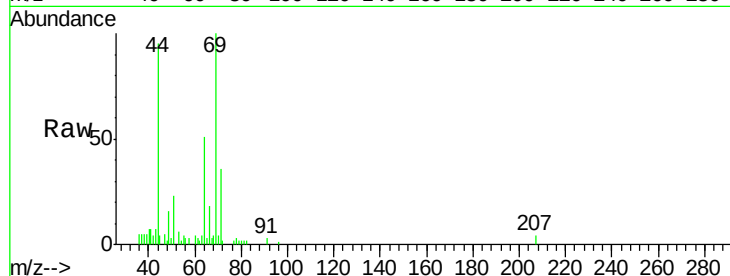
#8
Chloroethane
Concen: 0.228 ug/L
RT: 1.72 min Scan# 103
Delta R.T. 0.00 min
Lab File: VX019176.D
Acq: 28 Oct 2020 20:50

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-01

Tot Ion	Ratio	Lower	Upper
64	100		
66	35.8	22.7	42.1

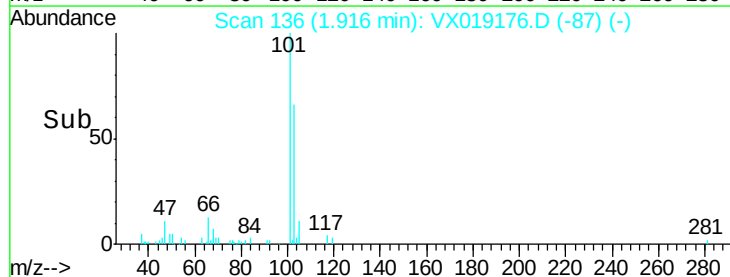
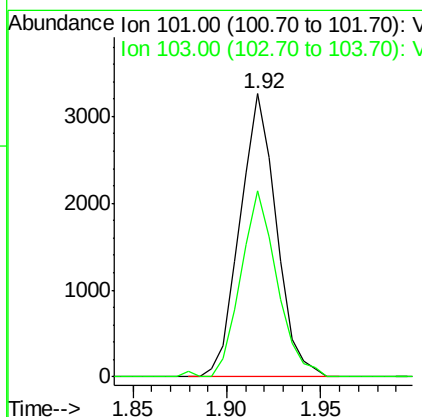
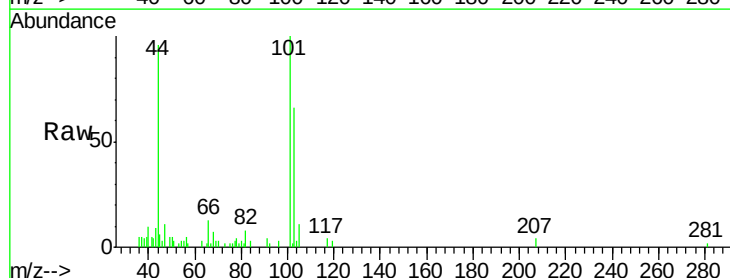
Manual Integrations
APPROVED

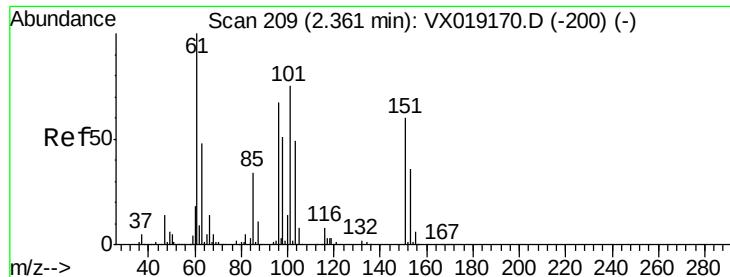
MMDadoda
10/29/2020 11:04:27 AM



#9
Trichlorofluoromethane
Concen: 0.200 ug/L
RT: 1.92 min Scan# 136
Delta R.T. 0.00 min
Lab File: VX019176.D
Acq: 28 Oct 2020 20:50

Tgt Ion	Ratio	Lower	Upper
101	100		
103	65.6	51.9	77.9





#10

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

Concen: 0.273 ug/L

RT: 2.37 min Scan# 210

Delta R.T. 0.01 min

Lab File: VX019176.D

Acq: 28 Oct 2020 20:50

Instrument :

MSVOA_X

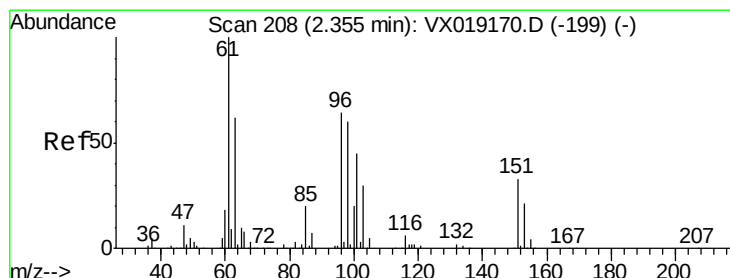
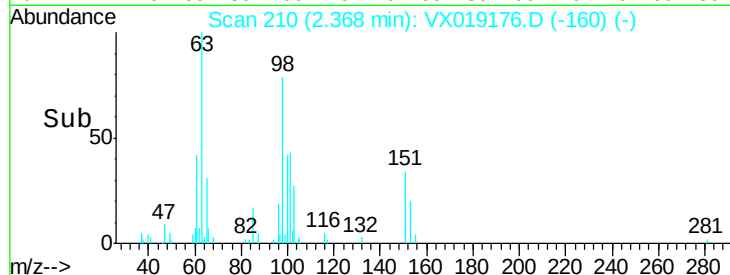
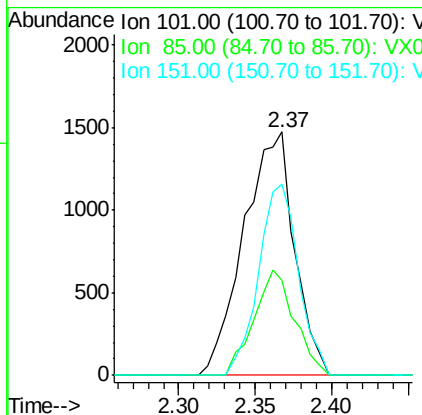
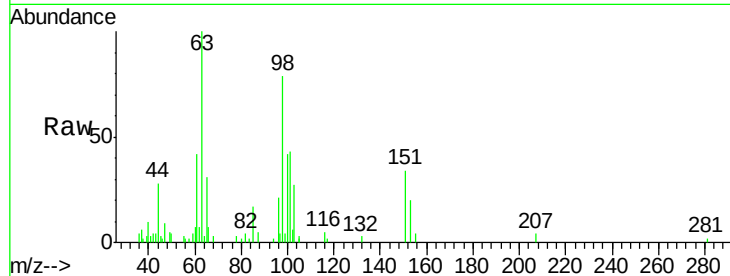
ClientSampleId :

MDL-WATER-01

Tot Ion:	101	Resp:	3397
Ion Ratio	Lower	Upper	
101	100		
85	34.6	35.3	52.9#
151	62.0	60.9	91.3

Manual Integrations
APPROVED

MMDadoda
10/29/2020 11:04:27 AM



#12

1,1-Dichloroethene

Concen: 0.276 ug/L

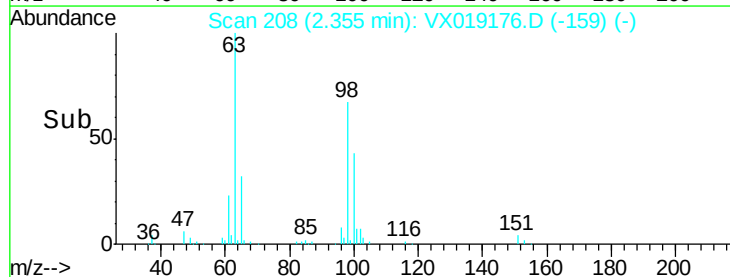
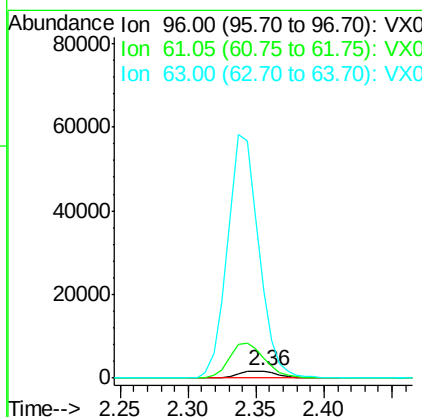
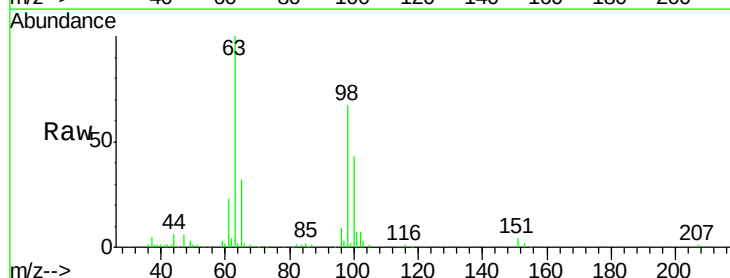
RT: 2.36 min Scan# 208

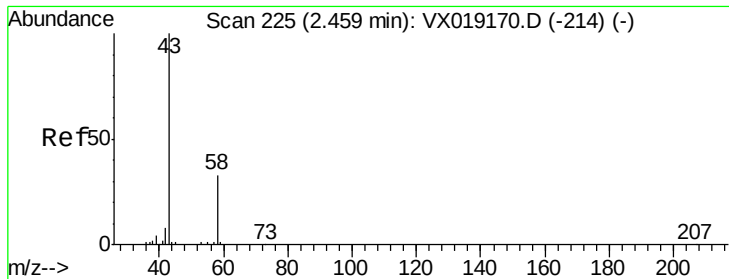
Delta R.T. 0.00 min

Lab File: VX019176.D

Acq: 28 Oct 2020 20:50

Tgt Ion:	96	Resp:	3344
Ion Ratio	Lower	Upper	
96	100		
61	271.3	109.5	203.3#
63	1156.2	68.3	126.9#





#13

Acetone

Concen: 1.962 ug/L m

RT: 2.45 min Scan# 224

Delta R.T. -0.01 min

Lab File: VX019176.D

Acq: 28 Oct 2020 20:50

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-01

Tot Ion: 43 Resp: 2984

Ion Ratio Lower Upper

43 100

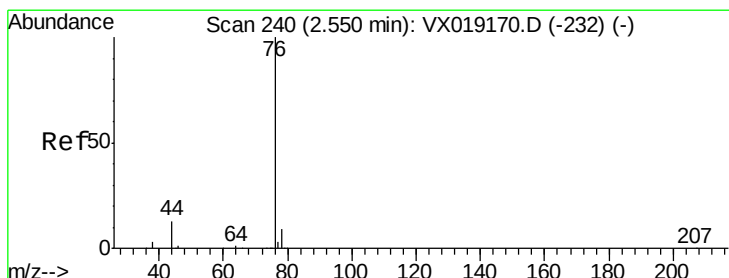
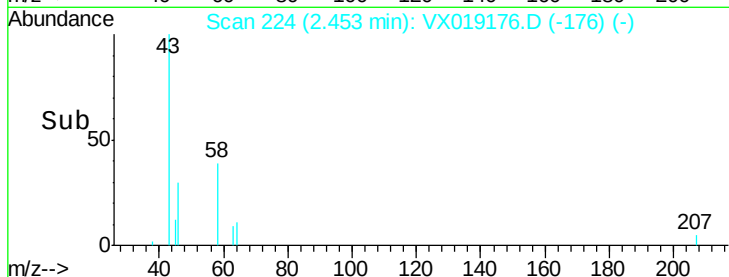
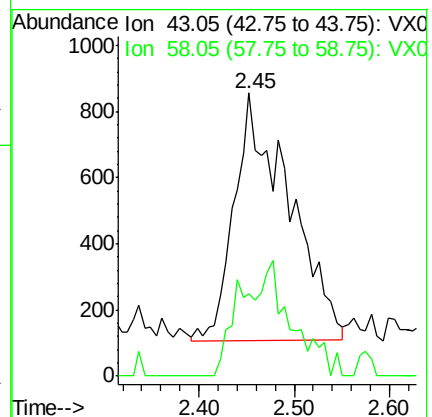
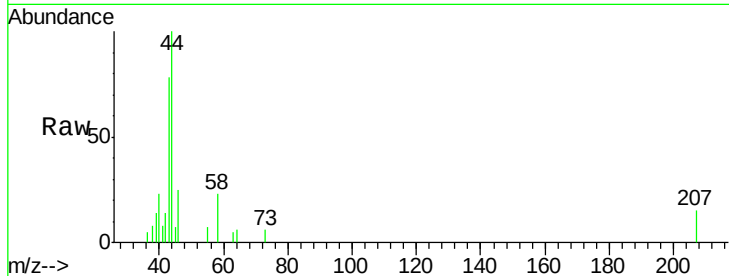
58 16.6 0.0 65.4

Manual Integrations

APPROVED

MMDadoda

10/29/2020 11:04:27 AM



#14

Carbon disulfide

Concen: 0.212 ug/L

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX019176.D

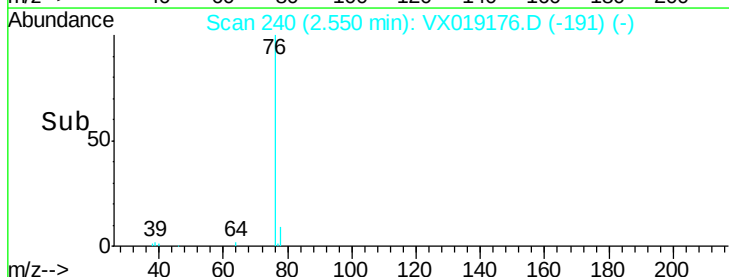
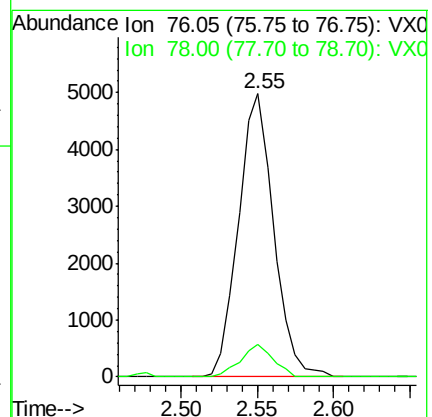
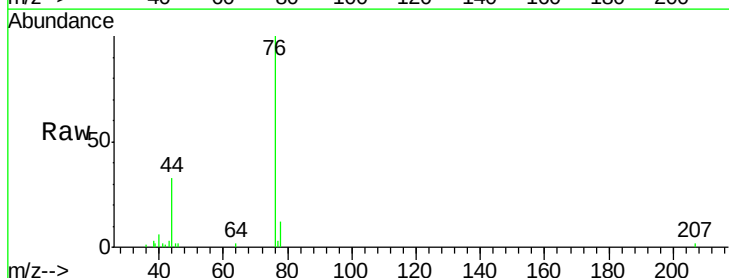
Acq: 28 Oct 2020 20:50

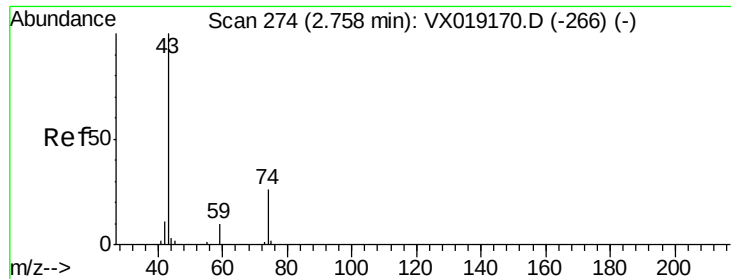
Tgt Ion: 76 Resp: 7948

Ion Ratio Lower Upper

76 100

78 11.6 7.4 11.0#





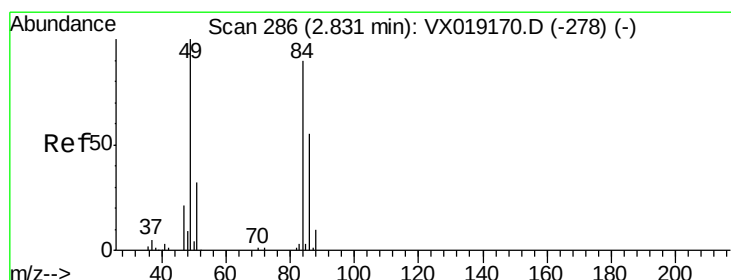
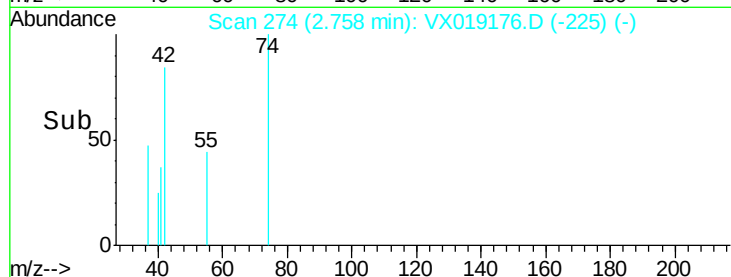
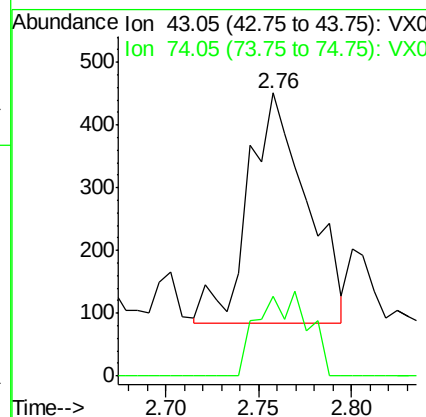
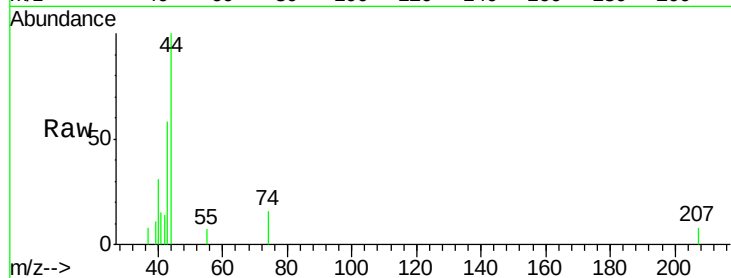
#15
Methvl Acetate
Concen: 0.198 ug/L m
RT: 2.76 min Scan# 274
Delta R.T. 0.00 min
Lab File: VX019176.D
Acq: 28 Oct 2020 20:50

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-01

Tot Ion: 43 Resp: 805
Ion Ratio Lower Upper
43 100
74 31.4 22.3 33.5

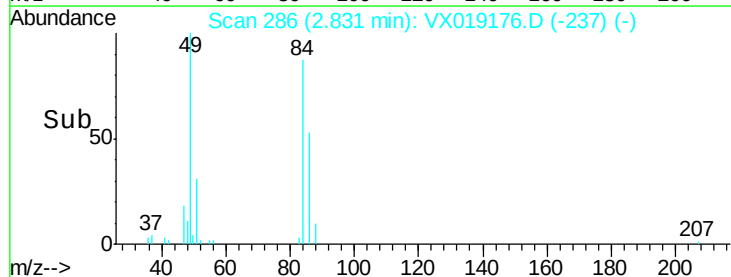
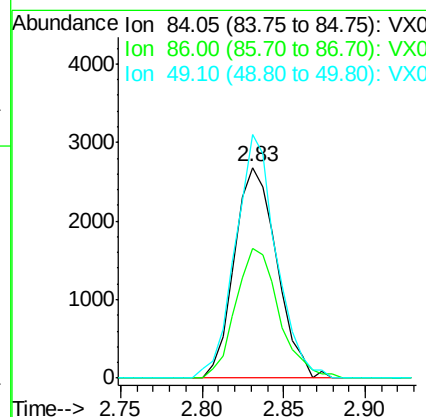
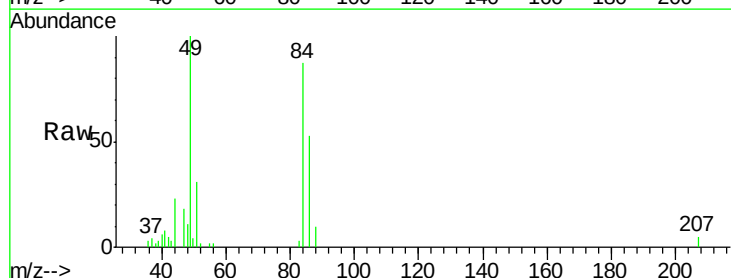
Manual Integrations
APPROVED

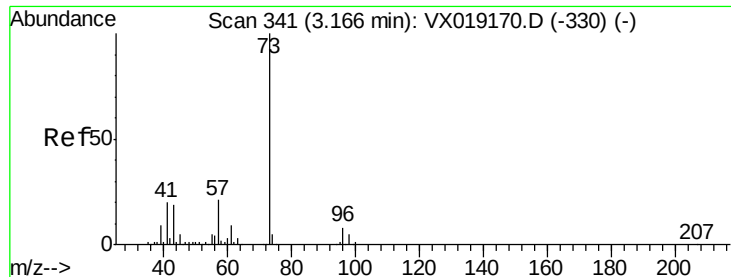
MMDadoda
10/29/2020 11:04:27 AM



#16
Methylene chloride
Concen: 0.337 ug/L
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX019176.D
Acq: 28 Oct 2020 20:50

Tgt Ion: 84 Resp: 4858
Ion Ratio Lower Upper
84 100
86 61.5 42.2 78.4
49 115.5 77.5 143.9





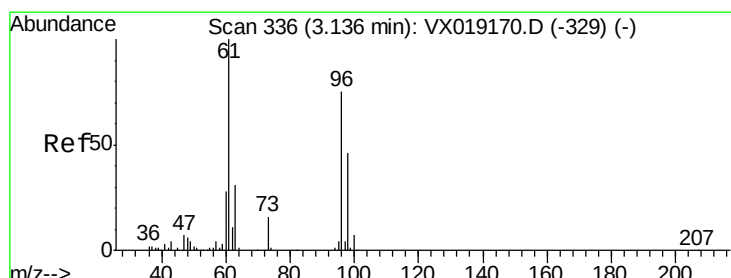
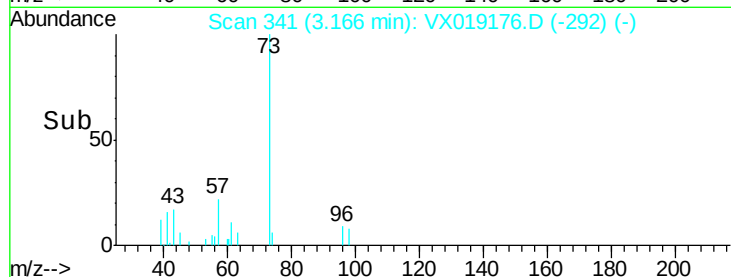
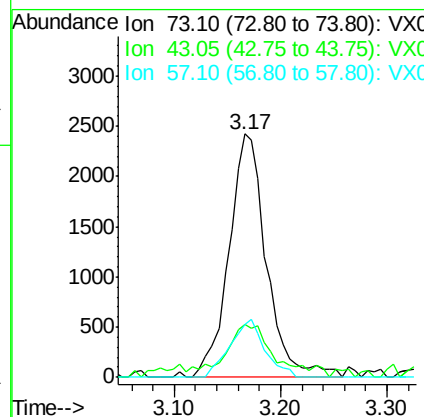
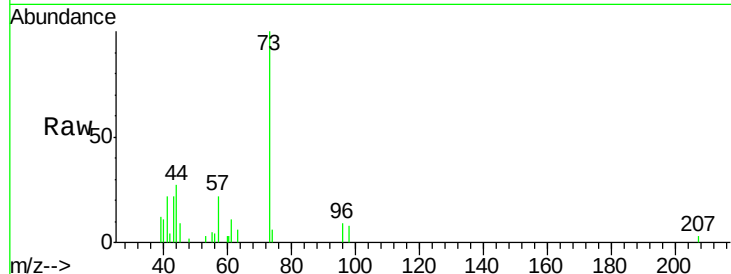
#17
Methyl tert-butyl Ether
Concen: 0.206 ug/L
RT: 3.17 min Scan# 341
Delta R.T. 0.00 min
Lab File: VX019176.D
Acq: 28 Oct 2020 20:50

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-01

Tot Ion	Ratio	Lower	Upper
73	100		
43	28.7	16.1	24.1#
57	22.1	16.8	25.2

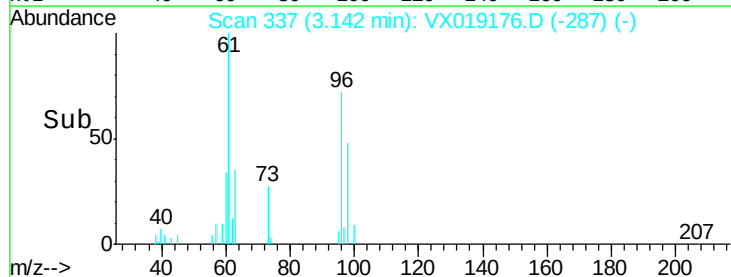
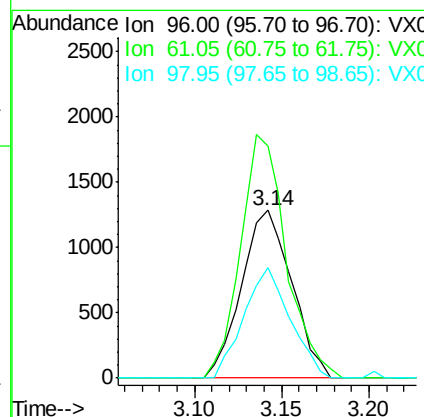
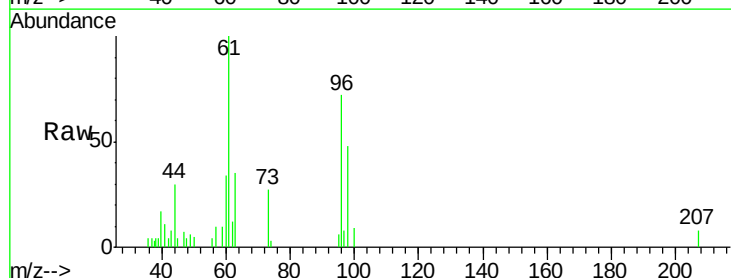
Manual Integrations
APPROVED

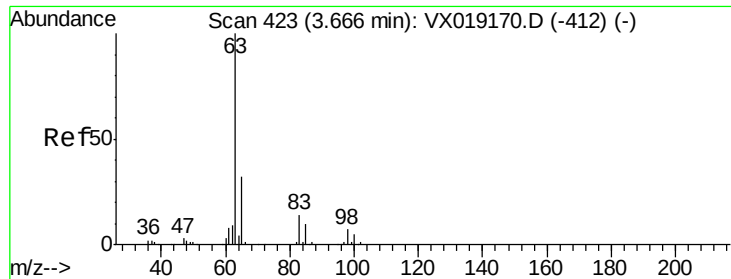
MMDadoda
10/29/2020 11:04:27 AM



#18
trans-1,2-Dichloroethene
Concen: 0.201 ug/L
RT: 3.14 min Scan# 337
Delta R.T. 0.01 min
Lab File: VX019176.D
Acq: 28 Oct 2020 20:50

Tgt Ion	Ratio	Lower	Upper
96	100		
61	138.6	93.7	173.9
98	66.2	42.8	79.6





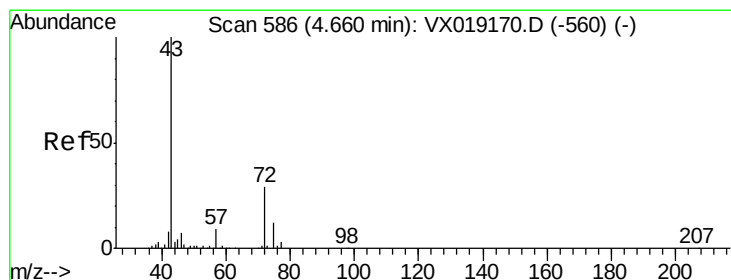
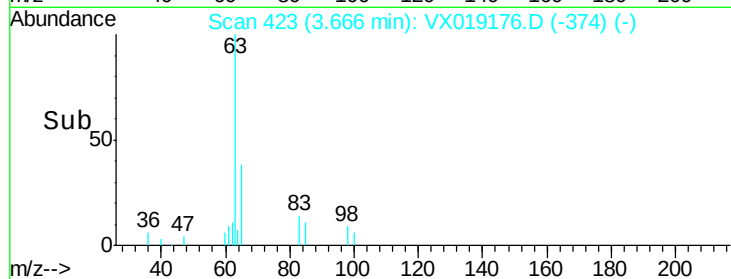
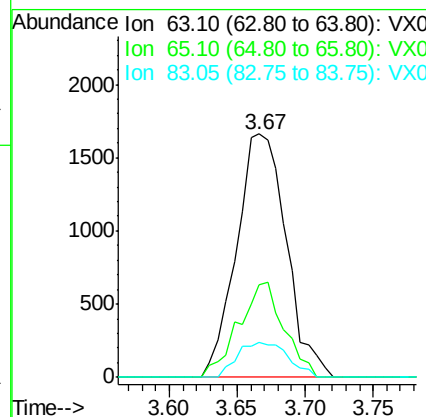
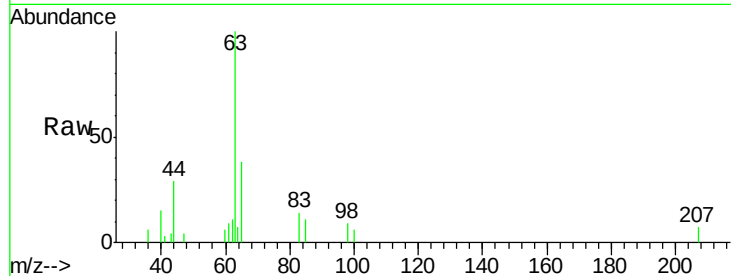
#19
 1,1-Dichloroethane
 Concen: 0.195 ug/L
 RT: 3.67 min Scan# 423
 Delta R.T. 0.00 min
 Lab File: VX019176.D
 Acq: 28 Oct 2020 20:50

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-01

Tot Ion	Ratio	Lower	Upper
63	100		
65	37.9	22.5	41.9
83	14.4	9.7	17.9

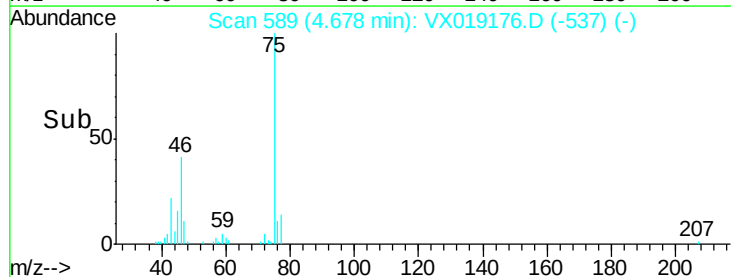
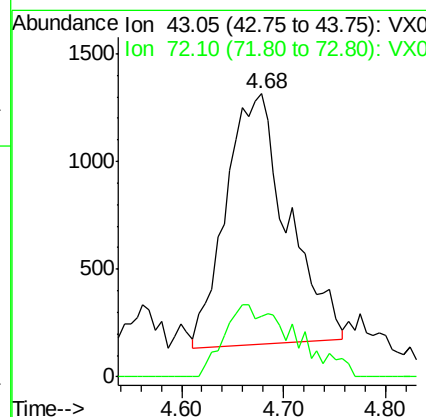
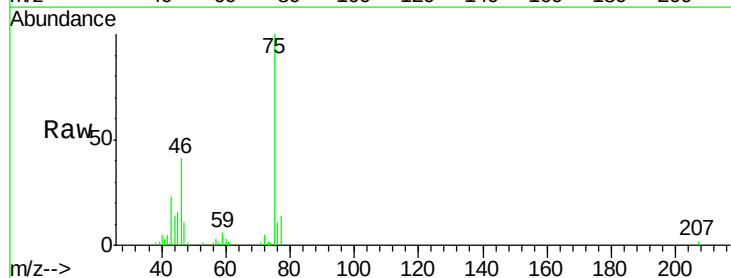
Manual Integrations
 APPROVED

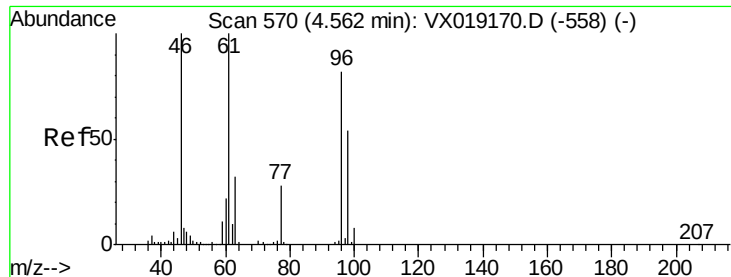
MMDadoda
 10/29/2020 11:04:27 AM



#21
 2-Butanone
 Concen: 1.839 ug/L
 RT: 4.68 min Scan# 589
 Delta R.T. 0.02 min
 Lab File: VX019176.D
 Acq: 28 Oct 2020 20:50

Tgt Ion	Ratio	Lower	Upper
43	100		
72	16.8	14.4	43.4





#22

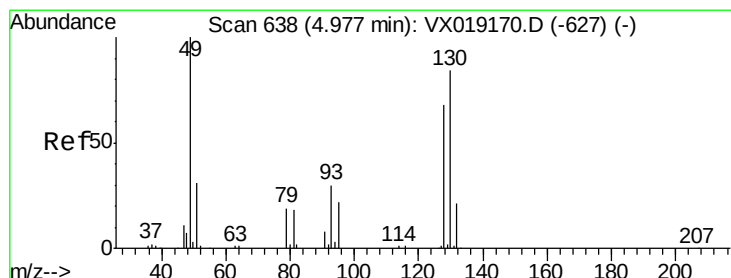
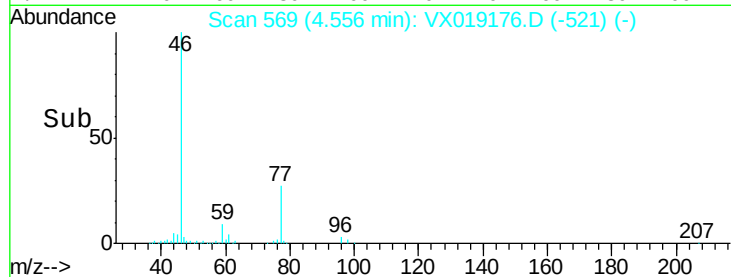
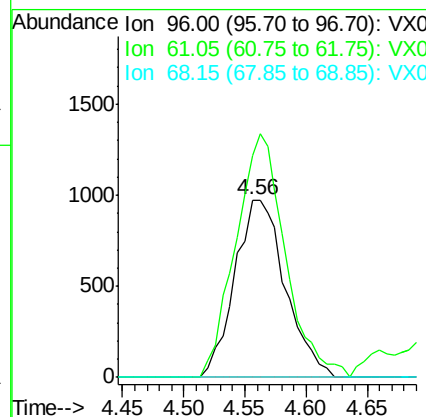
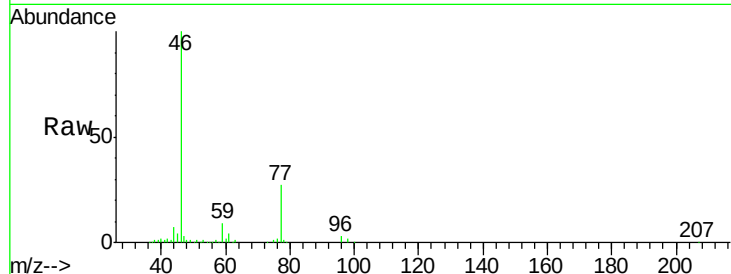
cis-1,2-Dichloroethene
Concen: 0.206 ug/L
RT: 4.56 min Scan# 569
Delta R.T. -0.01 min
Lab File: VX019176.D
Acq: 28 Oct 2020 20:50

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-01

Tot Ion	Ratio	Lower	Upper
96	100		
61	124.8	85.7	159.1
68	0.0	0.0	0.0

Manual Integrations
APPROVED

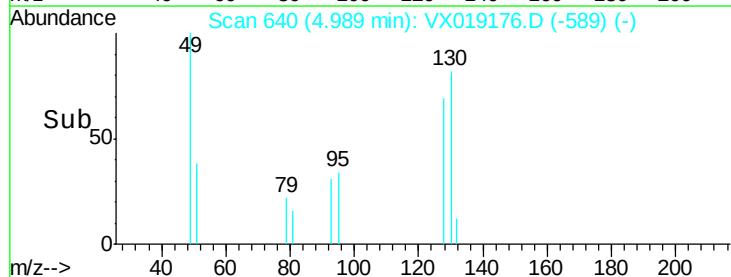
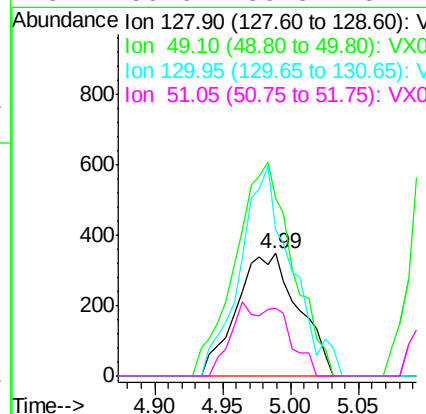
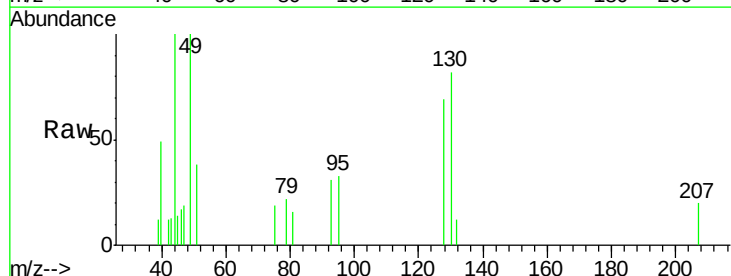
MMDadoda
10/29/2020 11:04:27 AM

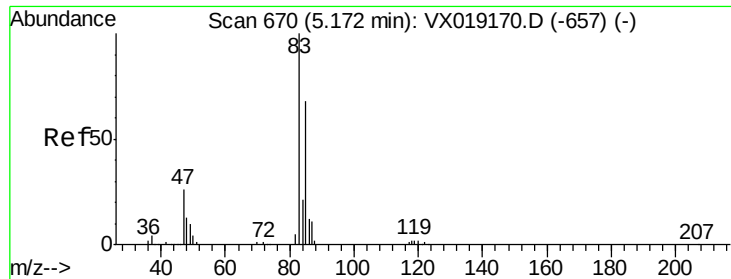


#23

Bromochloromethane
Concen: 0.197 ug/L
RT: 4.99 min Scan# 640
Delta R.T. 0.01 min
Lab File: VX019176.D
Acq: 28 Oct 2020 20:50

Tgt Ion	Ratio	Lower	Upper
128	100		
49	145.3	102.8	191.0
130	118.9	86.3	160.3
51	55.6	36.5	54.7#





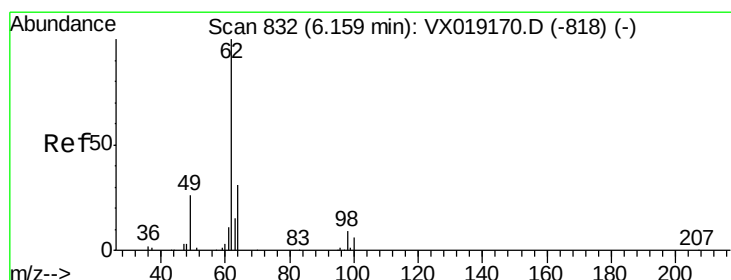
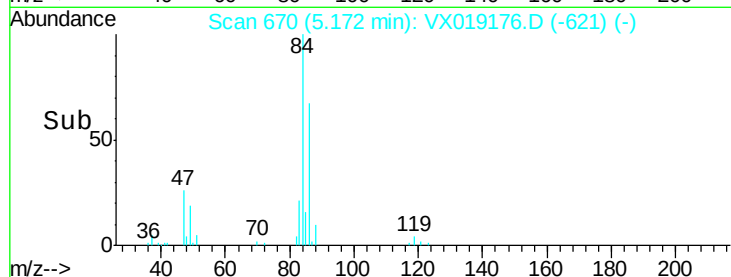
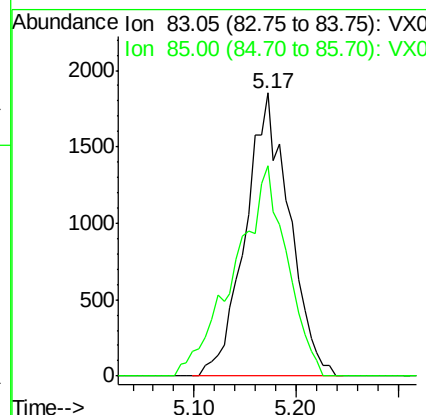
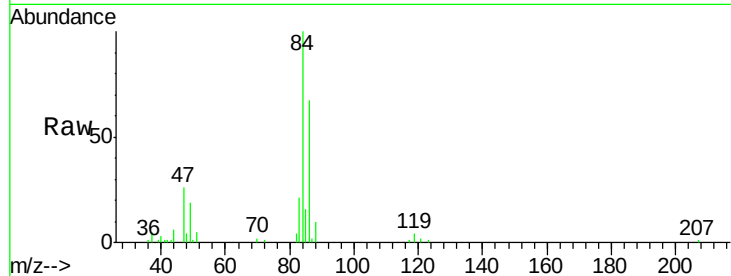
#25
Chloroform
Concen: 0.244 ug/L
RT: 5.17 min Scan# 670
Delta R.T. 0.00 min
Lab File: VX019176.D
Acq: 28 Oct 2020 20:50

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-01

Tot Ion	83	Resp	5531
Ion Ratio	100	Lower	Upper
85	74.4	47.6	88.4

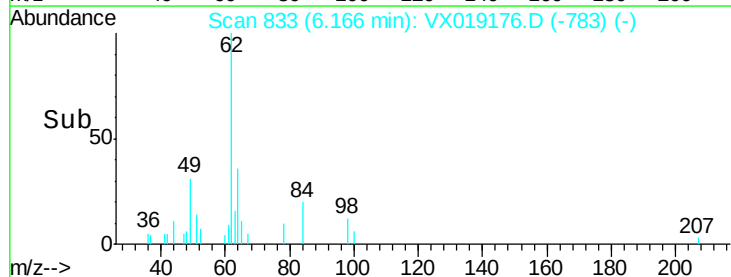
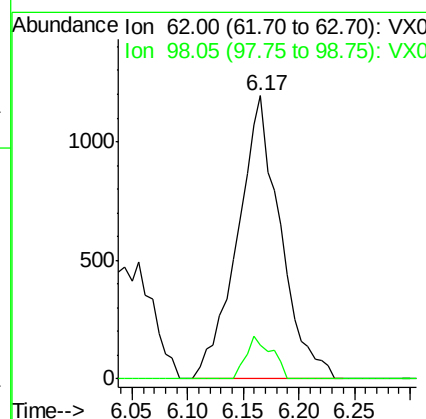
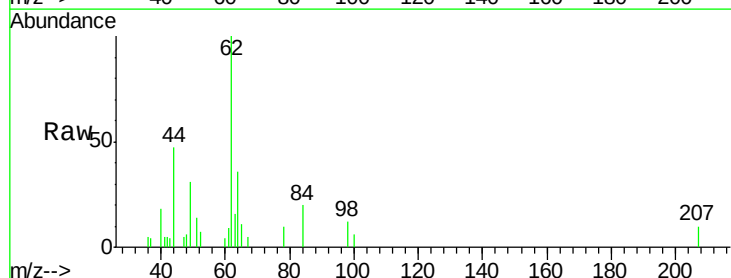
Manual Integrations
APPROVED

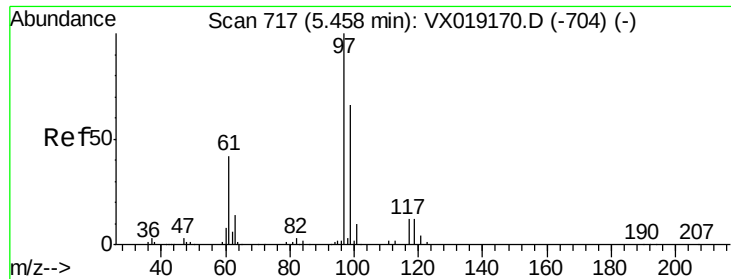
MMDadoda
10/29/2020 11:04:27 AM



#27
1,2-Dichloroethane
Concen: 0.226 ug/L
RT: 6.17 min Scan# 833
Delta R.T. 0.01 min
Lab File: VX019176.D
Acq: 28 Oct 2020 20:50

Tgt Ion	62	Resp	3199
Ion Ratio	100	Lower	Upper
98	11.8	7.4	11.0#





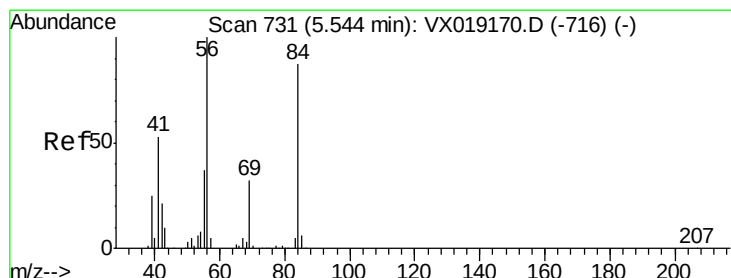
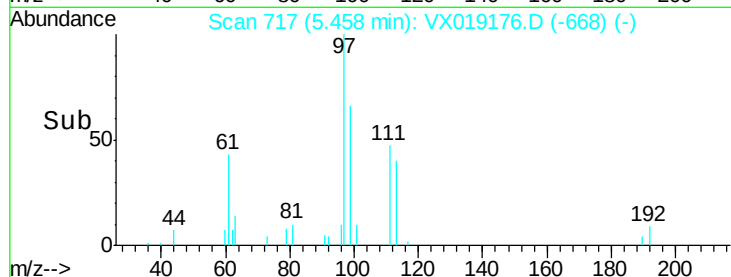
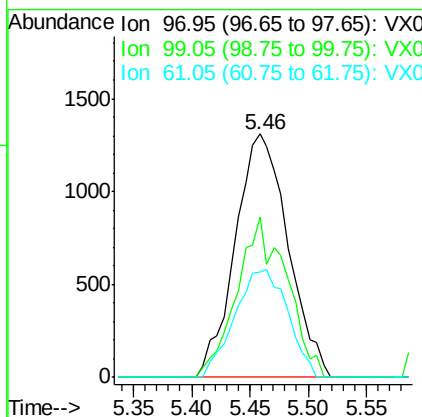
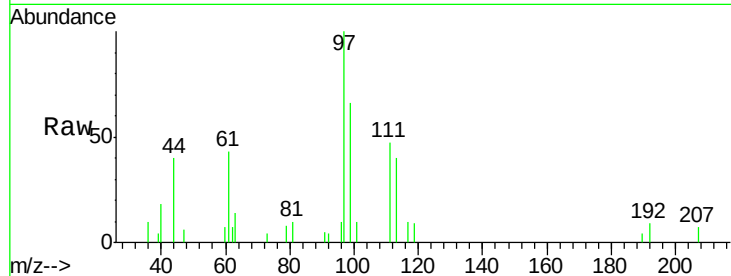
#29
1,1,1-Trichloroethane
Concen: 0.198 ug/L
RT: 5.46 min Scan# 717
Delta R.T. 0.00 min
Lab File: VX019176.D
Acq: 28 Oct 2020 20:50

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-01

Tot Ion	Ratio	Lower	Upper
97	100		
99	61.8	51.8	77.8
61	44.2	34.5	51.7

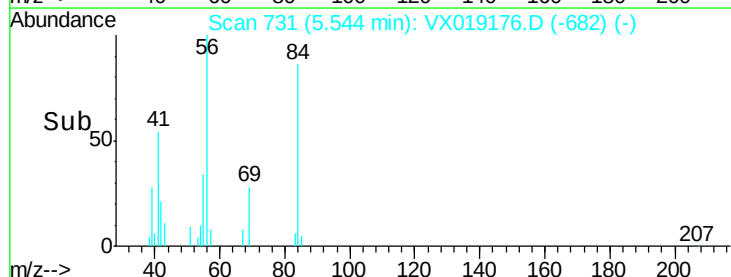
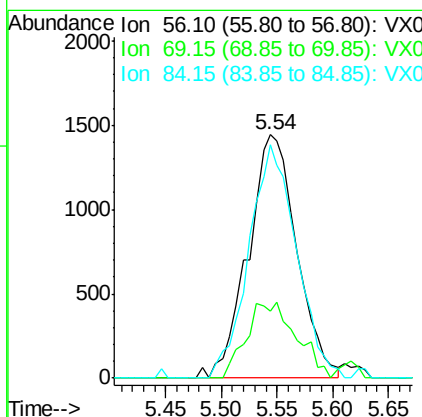
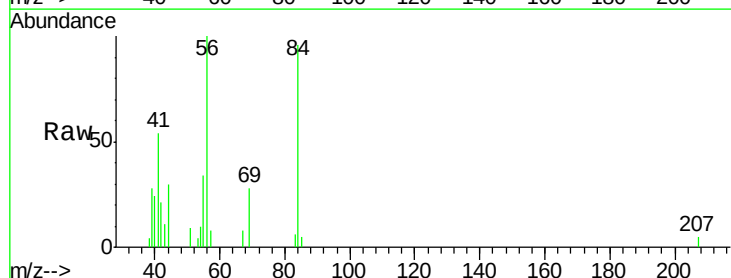
Manual Integrations
APPROVED

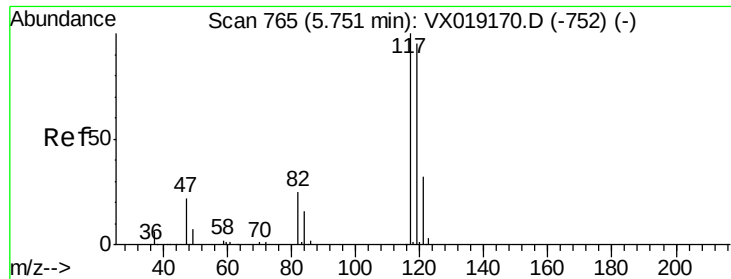
MMDadoda
10/29/2020 11:04:27 AM



#30
Cyclohexane
Concen: 0.211 ug/L
RT: 5.54 min Scan# 731
Delta R.T. 0.00 min
Lab File: VX019176.D
Acq: 28 Oct 2020 20:50

Tgt Ion	Ratio	Lower	Upper
56	100		
69	31.9	26.2	39.2
84	94.0	74.5	111.7





#31

Carbon tetrachloride

Concen: 0.188 ug/L

RT: 5.75 min Scan# 765

Delta R.T. 0.00 min

Lab File: VX019176.D

Acq: 28 Oct 2020 20:50

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-01

Tot Ion:117 Resp: 3344

Ion Ratio Lower Upper

117 100

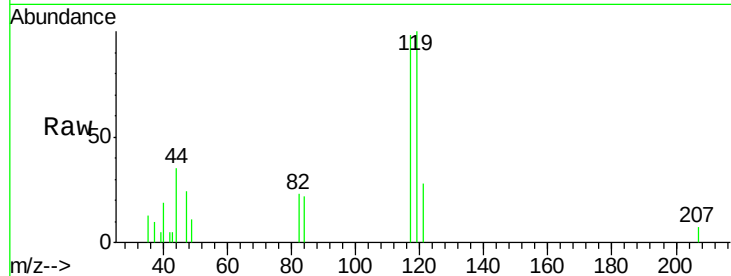
119 94.6 77.3 115.9

Manual Integrations

APPROVED

MMDadoda

10/29/2020 11:04:27 AM



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

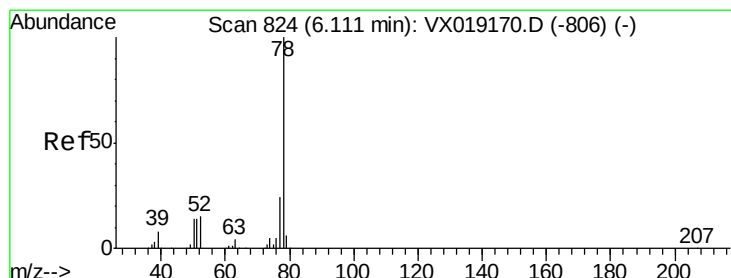
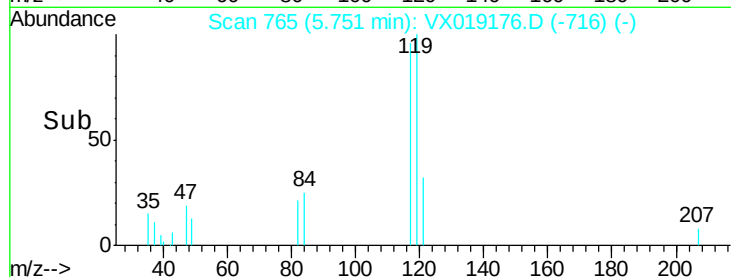
5.75

1000

500

0

Time-->



#33

Benzene

Concen: 0.202 ug/L

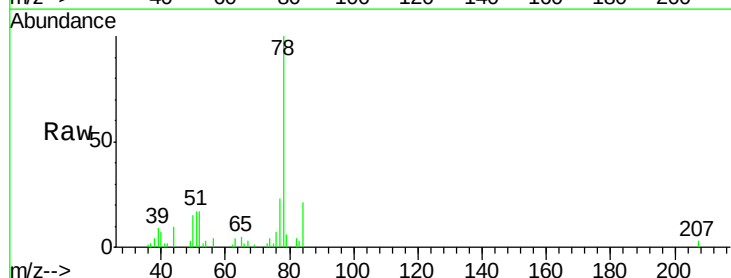
RT: 6.11 min Scan# 824

Delta R.T. 0.00 min

Lab File: VX019176.D

Acq: 28 Oct 2020 20:50

Tgt Ion: 78 Resp: 10192



Abundance Ion 78.10 (77.80 to 78.80): VX0

6.11

4000

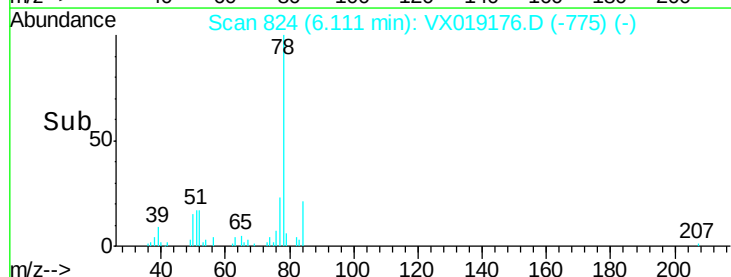
3000

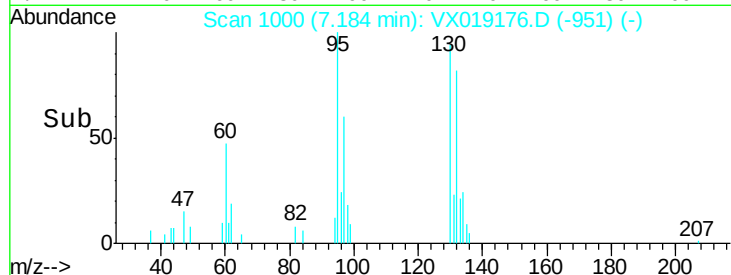
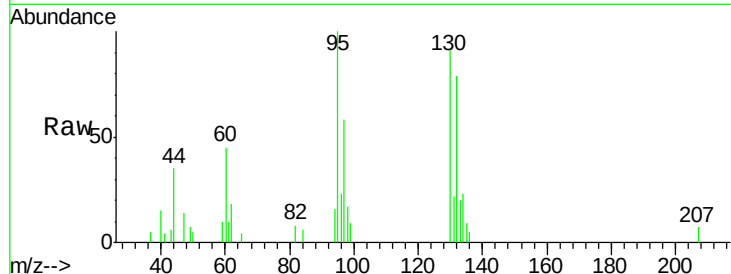
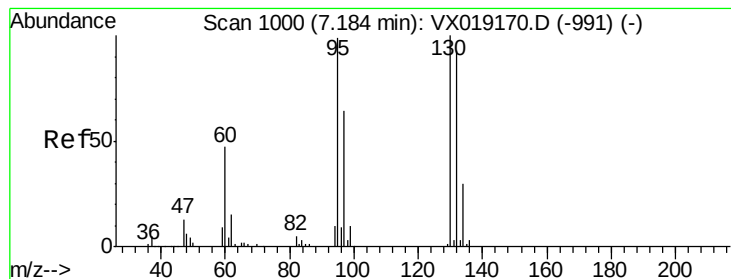
2000

1000

0

Time-->





#34

Trichloroethene

Concen: 0.211 ug/L

RT: 7.18 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VX019176.D

Acq: 28 Oct 2020 20:50

Tot Ion	95	Resp:	2909
Ion	Ratio	Lower	Upper
95	100		
97	58.0	45.2	84.0
132	78.8	65.3	121.3
130	90.5	70.6	131.0

Instrument :

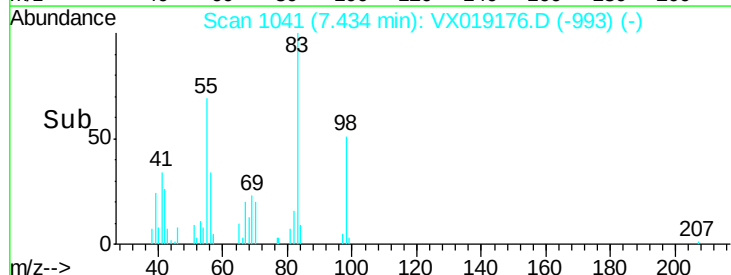
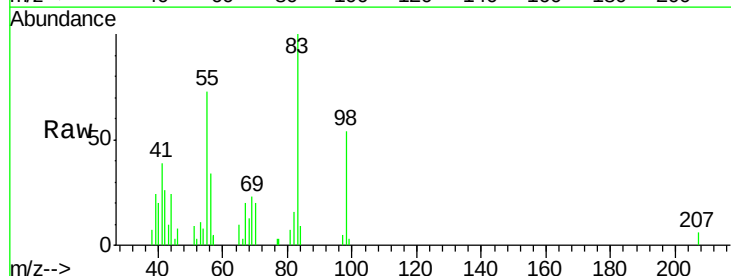
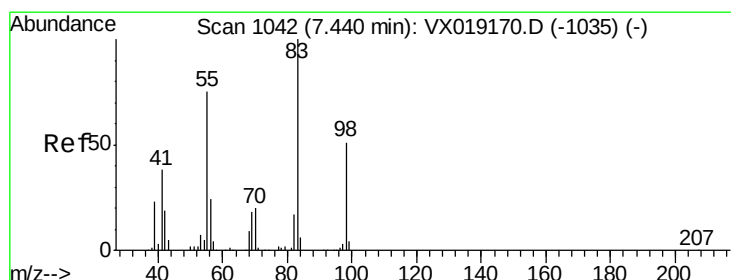
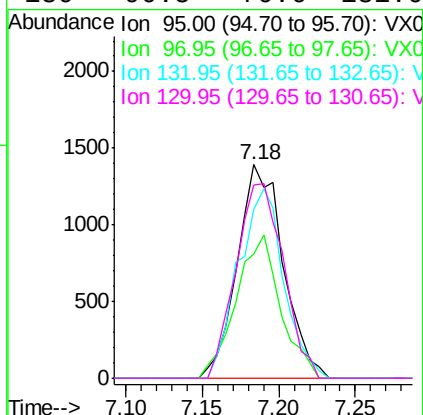
MSVOA_X

ClientSampleId :

MDL-WATER-01

Manual Integrations
APPROVED

MMDadoda
10/29/2020 11:04:27 AM



#35

Methylcyclohexane

Concen: 0.196 ug/L

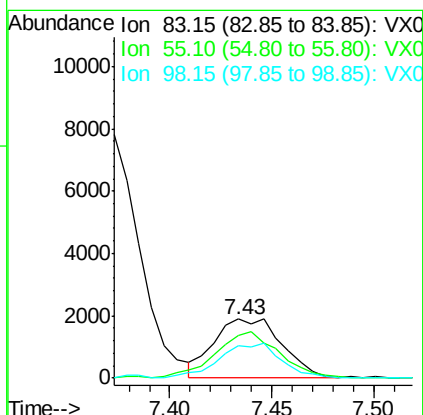
RT: 7.43 min Scan# 1041

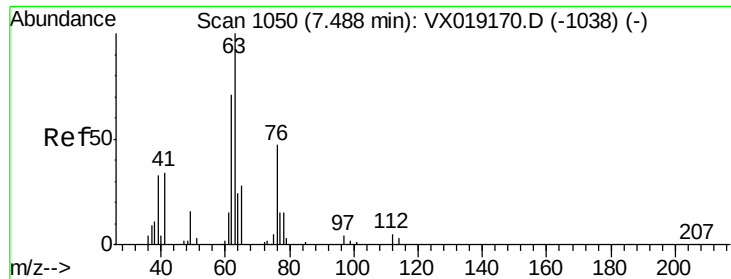
Delta R.T. -0.01 min

Lab File: VX019176.D

Acq: 28 Oct 2020 20:50

Tgt Ion	83	Resp:	4374
Ion	Ratio	Lower	Upper
83	100		
55	75.2	58.5	87.7
98	52.6	40.1	60.1





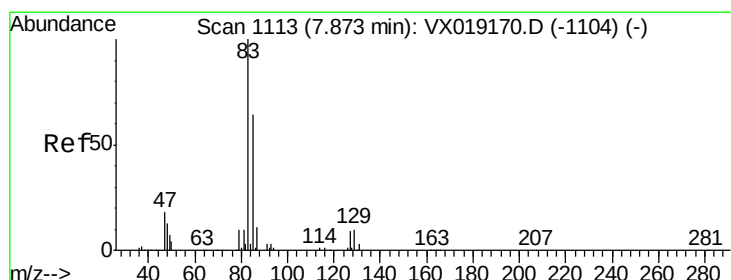
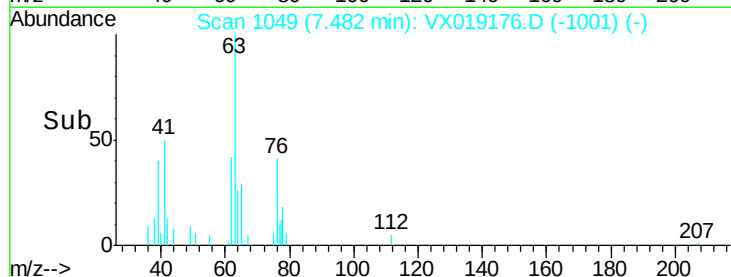
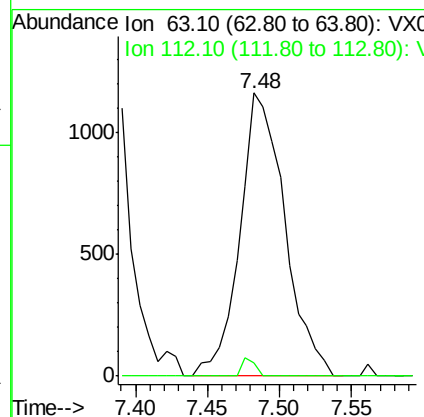
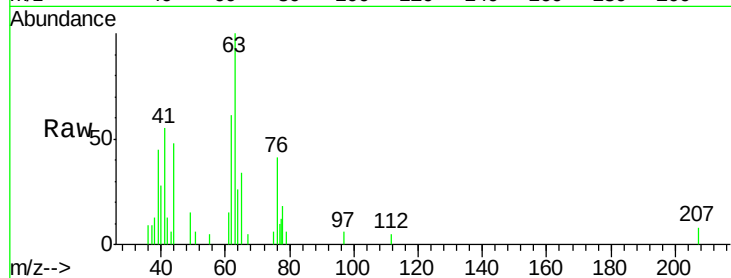
#37
 1,2-Dichloropropane
 Concen: 0.212 ug/L
 RT: 7.48 min Scan# 1049
 Delta R.T. -0.01 min
 Lab File: VX019176.D
 Acq: 28 Oct 2020 20:50

Instrument :
 MSVOA_X
 ClientSampleID :
 MDL-WATER-01

Tot Ion	Ratio	Lower	Upper
63	100		
112	1.9	3.8	5.6#

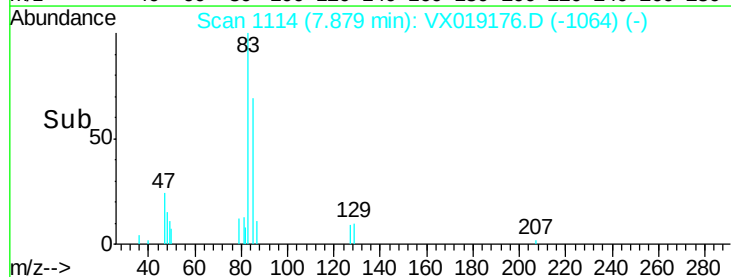
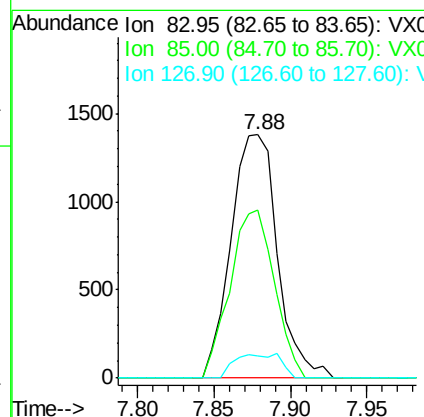
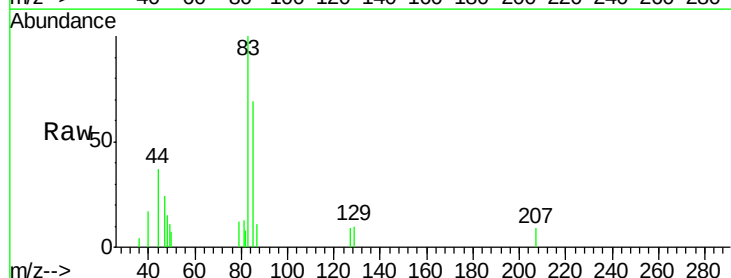
Manual Integrations
 APPROVED

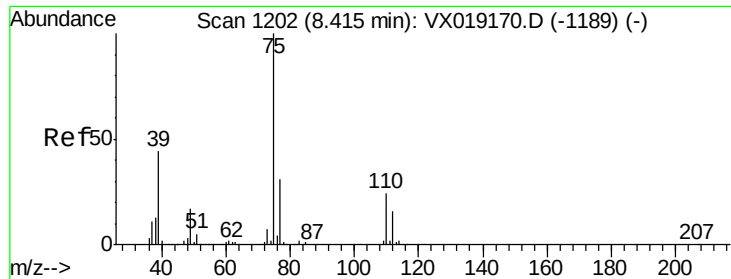
MMDadoda
 10/29/2020 11:04:27 AM



#38
 Bromodichloromethane
 Concen: 0.188 ug/L
 RT: 7.88 min Scan# 1114
 Delta R.T. 0.01 min
 Lab File: VX019176.D
 Acq: 28 Oct 2020 20:50

Tgt Ion	Ratio	Lower	Upper
83	100		
85	68.8	44.4	82.5
127	9.3	7.2	10.8





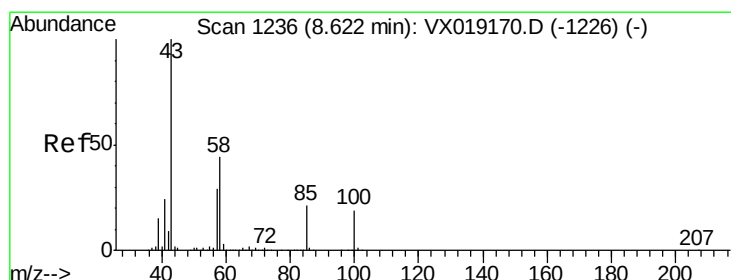
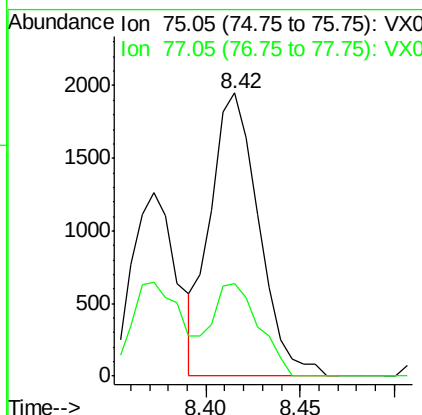
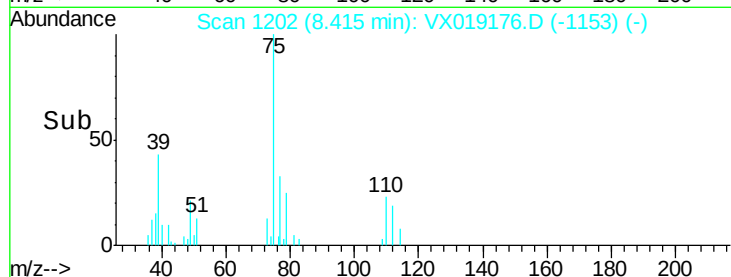
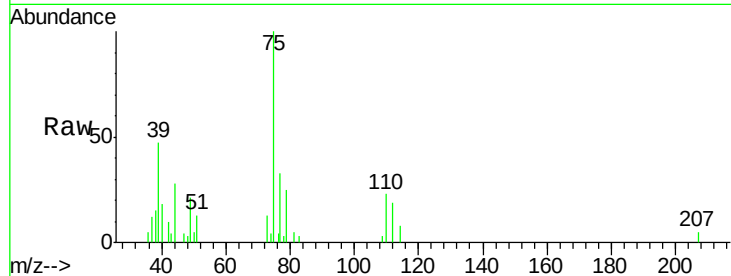
#39
 cis-1,3-Dichloropropene
 Concen: 0.191 ug/L
 RT: 8.42 min Scan# 1202
 Delta R.T. 0.00 min
 Lab File: VX019176.D
 Acq: 28 Oct 2020 20:50

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-01

Tot Ion: 75 Resp: 3478
 Ion Ratio Lower Upper
 75 100
 77 32.6 21.8 40.6

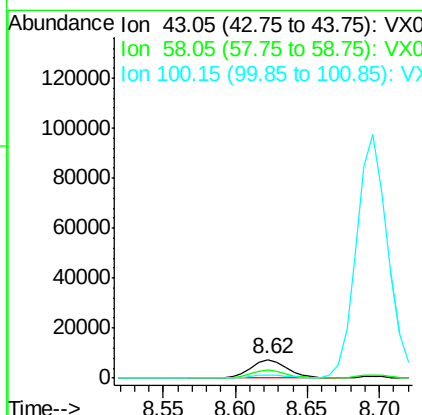
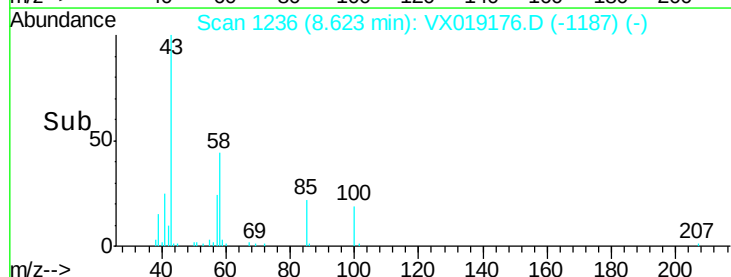
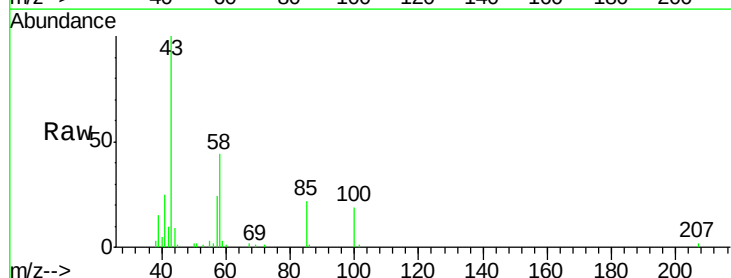
Manual Integrations
 APPROVED

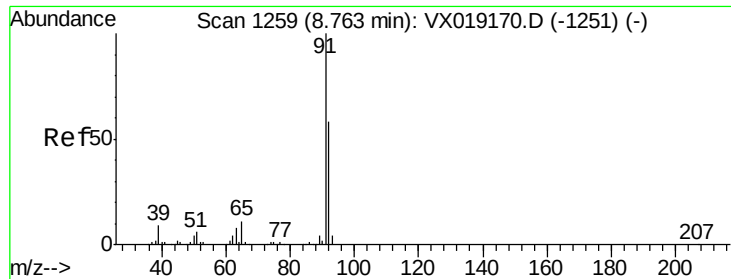
MMDadoda
 10/29/2020 11:04:27 AM



#40
 4-Methyl-2-pentanone
 Concen: 2.057 ug/L
 RT: 8.62 min Scan# 1236
 Delta R.T. 0.00 min
 Lab File: VX019176.D
 Acq: 28 Oct 2020 20:50

Tgt Ion: 43 Resp: 13034
 Ion Ratio Lower Upper
 43 100
 58 40.7 34.1 51.1
 100 0.0 15.0 22.4#





#42

Toluene

Concen: 0.200 ug/L

RT: 8.76 min Scan# 1259

Delta R.T. 0.00 min

Lab File: VX019176.D

Acq: 28 Oct 2020 20:50

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-01

Tot Ion: 91 Resp: 10902

Ion Ratio Lower Upper

91 100

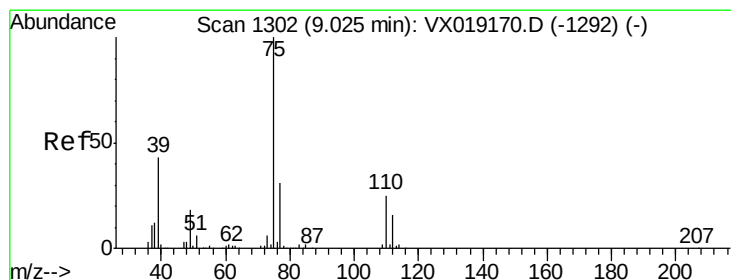
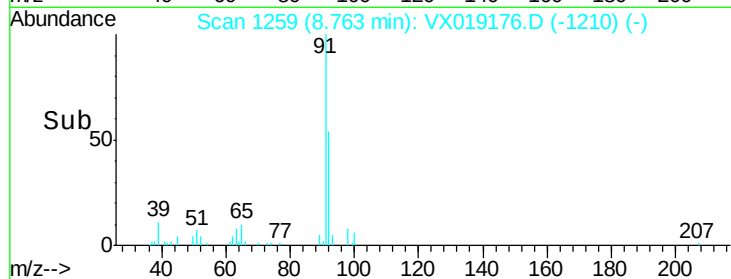
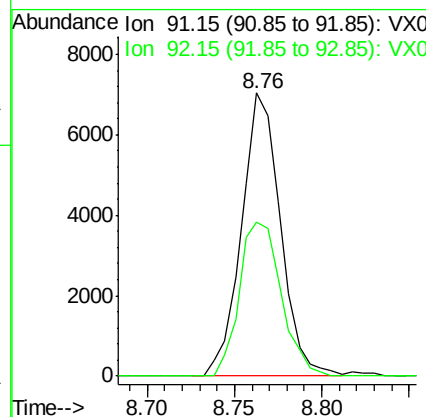
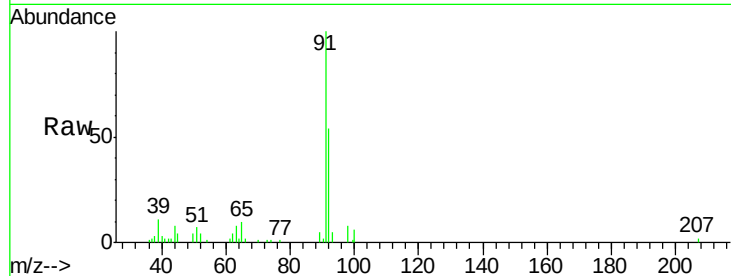
92 54.5 40.7 75.7

Manual Integrations

APPROVED

MMDadoda

10/29/2020 11:04:27 AM



#44

trans-1,3-Dichloropropene

Concen: 0.182 ug/L m

RT: 9.02 min Scan# 1301

Delta R.T. -0.01 min

Lab File: VX019176.D

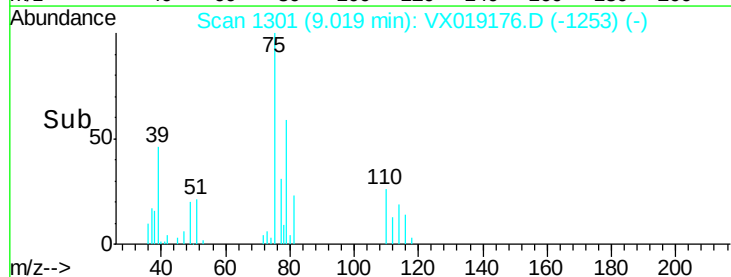
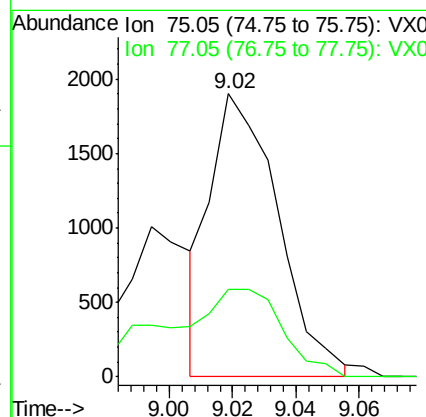
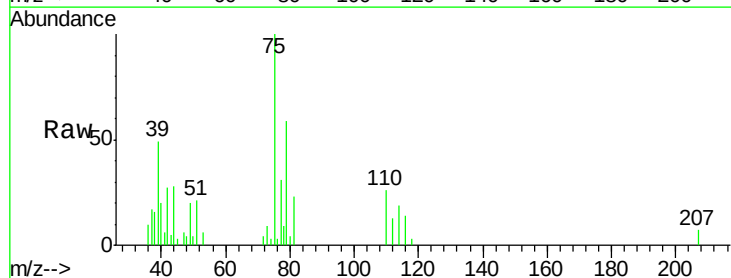
Acq: 28 Oct 2020 20:50

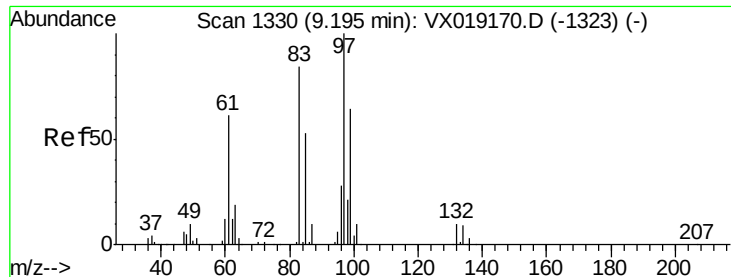
Tgt Ion: 75 Resp: 2785

Ion Ratio Lower Upper

75 100

77 31.0 21.7 40.3





#45

1,1,2-Trichloroethane

Concen: 0.199 ug/L

RT: 9.20 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VX019176.D

Acq: 28 Oct 2020 20:50

Instrument :

MSVOA_X

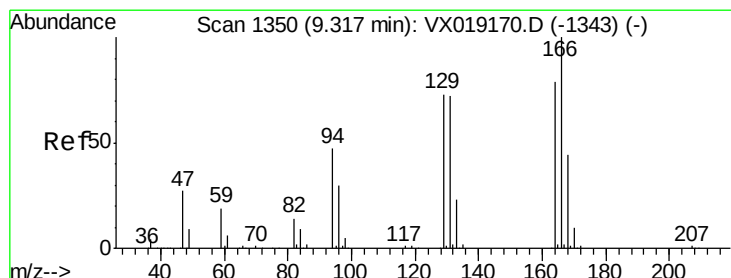
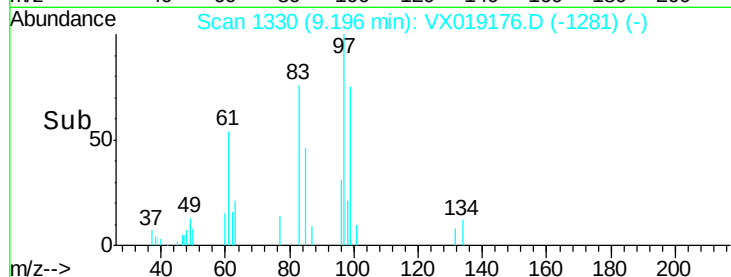
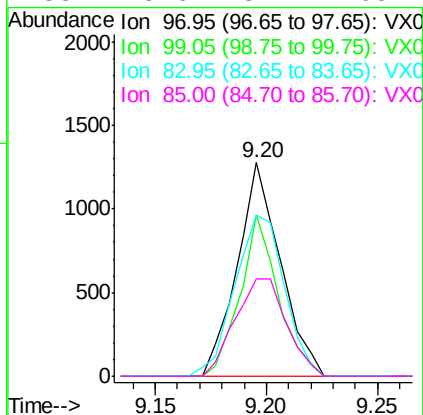
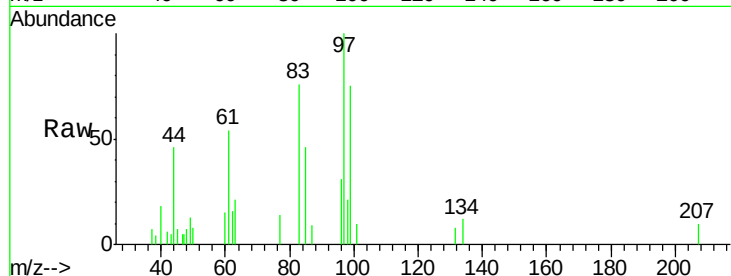
ClientSampleId :

MDL-WATER-01

Tot Ion:	97	Resp:	1721
Ion	Ratio	Lower	Upper
97	100		
99	75.3	44.8	83.2
83	75.7	59.1	109.7
85	45.6	37.4	69.4

Manual Integrations
APPROVED

MMDadoda
10/29/2020 11:04:27 AM



#47

Tetrachloroethene

Concen: 0.205 ug/L

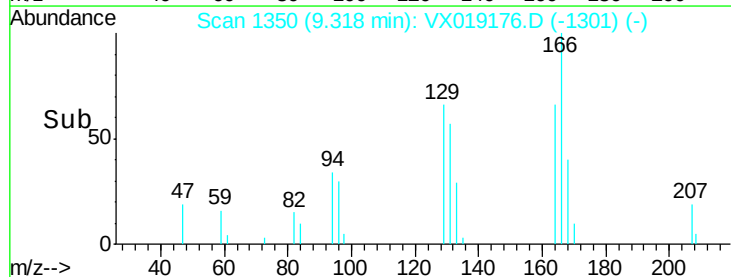
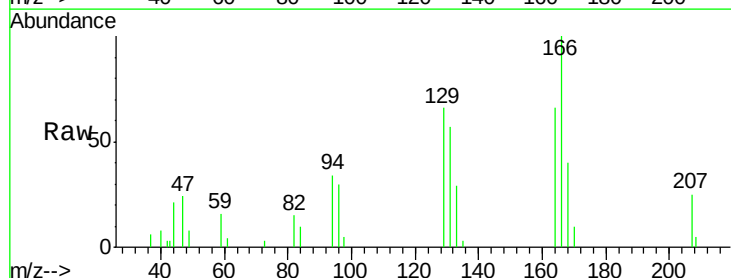
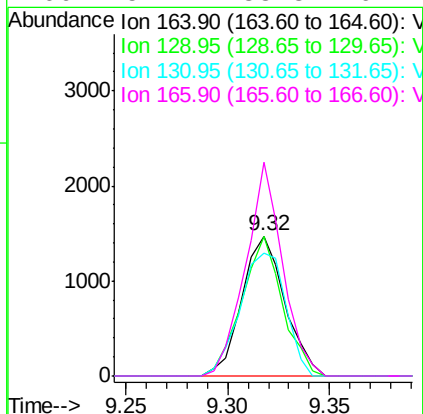
RT: 9.32 min Scan# 1350

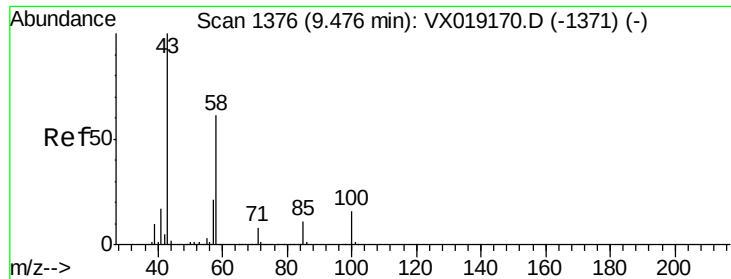
Delta R.T. 0.00 min

Lab File: VX019176.D

Acq: 28 Oct 2020 20:50

Tgt Ion:	164	Resp:	2157
Ion	Ratio	Lower	Upper
164	100		
129	100.0	64.2	119.2
131	87.3	63.8	118.4
166	152.4	88.3	164.1





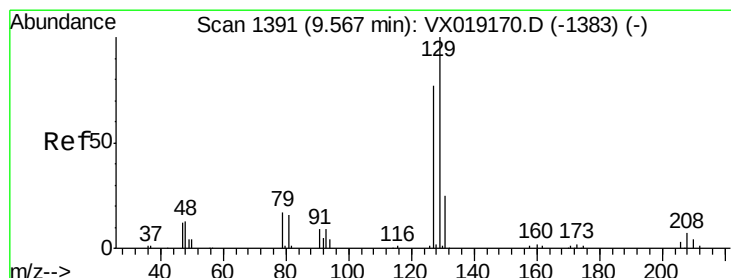
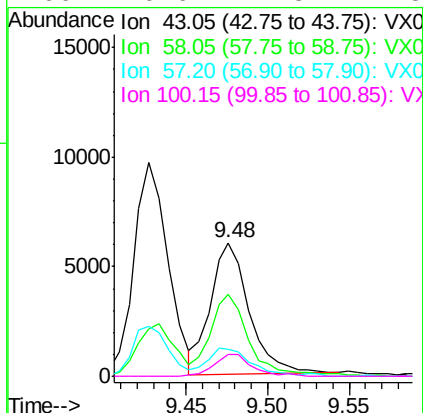
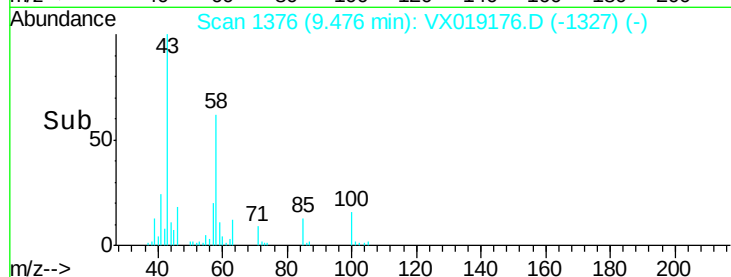
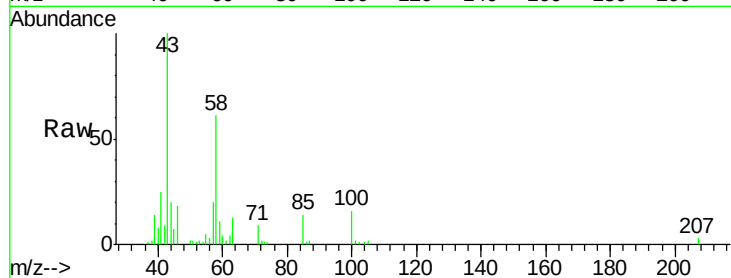
#48
2-Hexanone
Concen: 2.215 ug/L
RT: 9.48 min Scan# 1376
Delta R.T. 0.00 min
Lab File: VX019176.D
Acq: 28 Oct 2020 20:50

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-01

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
58	63.4	49.3	73.9	
57	25.1	17.2	25.8	
100	16.6	11.8	17.8	

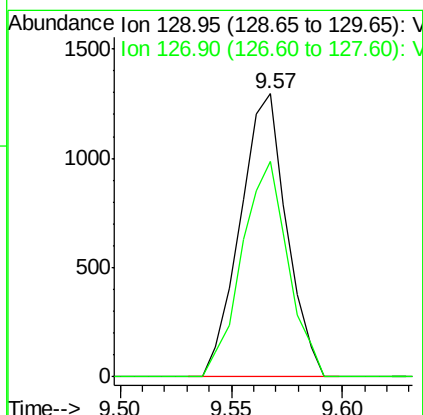
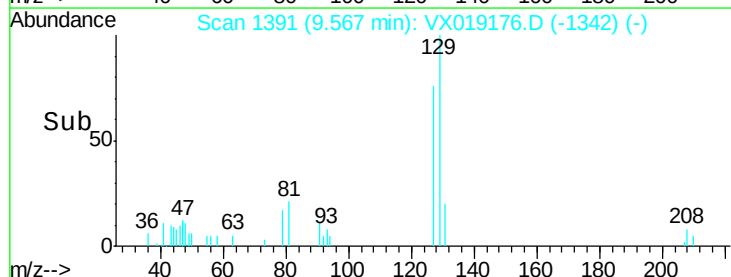
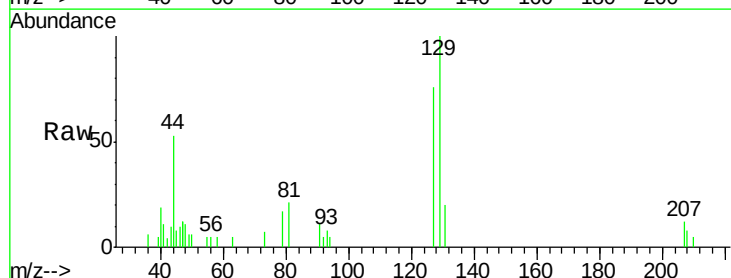
Manual Integrations
APPROVED

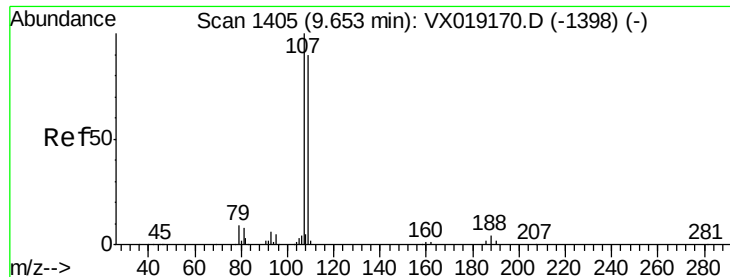
MMDadoda
10/29/2020 11:04:27 AM



#49
Dibromochloromethane
Concen: 0.188 ug/L
RT: 9.57 min Scan# 1391
Delta R.T. 0.00 min
Lab File: VX019176.D
Acq: 28 Oct 2020 20:50

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	76.2	53.6	99.6	





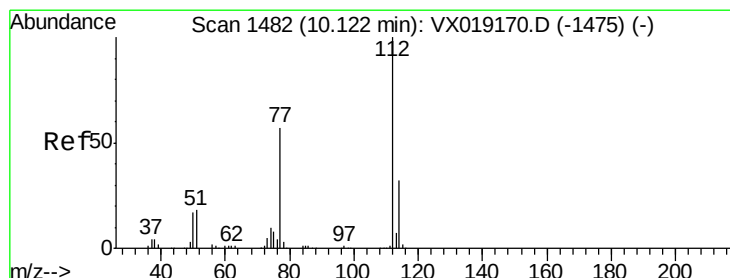
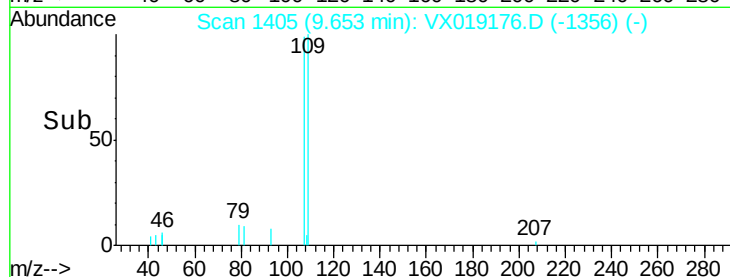
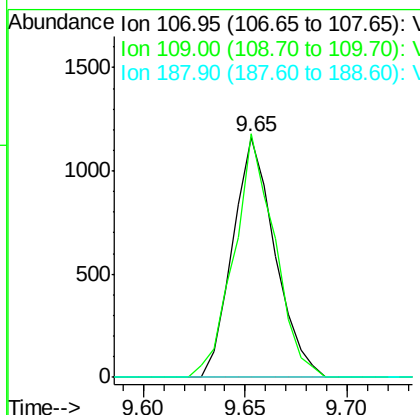
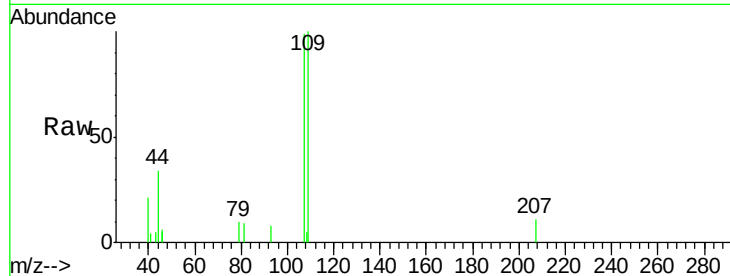
#50
1,2-Dibromoethane
Concen: 0.208 ug/L
RT: 9.65 min Scan# 1405
Delta R.T. 0.00 min
Lab File: VX019176.D
Acq: 28 Oct 2020 20:50

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-01

Tot Ion	Ratio	Lower	Upper
107	100		
109	101.4	62.9	116.9
188	0.0	3.0	4.4#

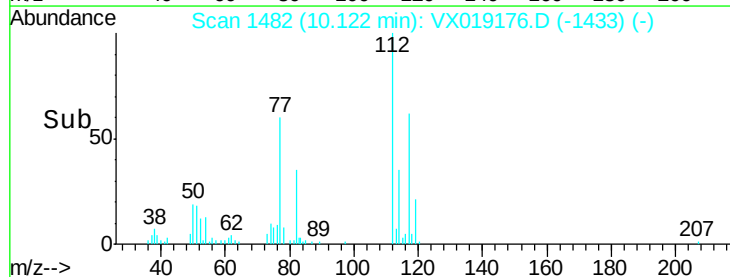
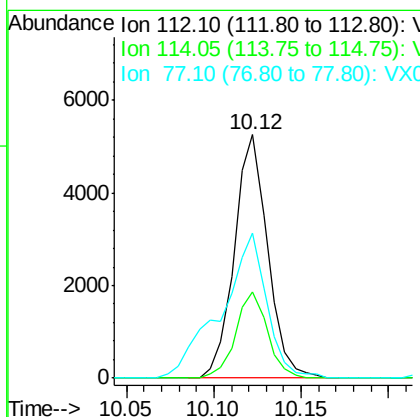
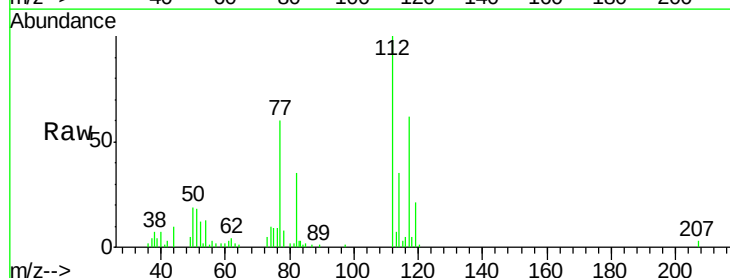
Manual Integrations
APPROVED

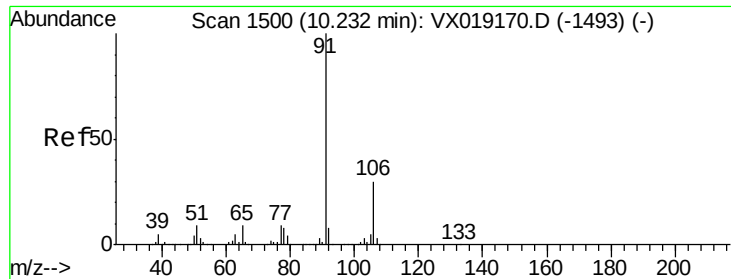
MMDadoda
10/29/2020 11:04:27 AM



#51
Chlorobenzene
Concen: 0.202 ug/L
RT: 10.12 min Scan# 1482
Delta R.T. 0.00 min
Lab File: VX019176.D
Acq: 28 Oct 2020 20:50

Tgt Ion	Ratio	Lower	Upper
112	100		
114	35.3	22.5	41.9
77	59.6	46.2	69.2





#52

Ethylbenzene

Concen: 0.191 ug/L

RT: 10.23 min Scan# 1500

Delta R.T. 0.00 min

Lab File: VX019176.D

Acq: 28 Oct 2020 20:50

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-01

Tot Ion: 91 Resp: 11613

Ion Ratio Lower Upper

91 100

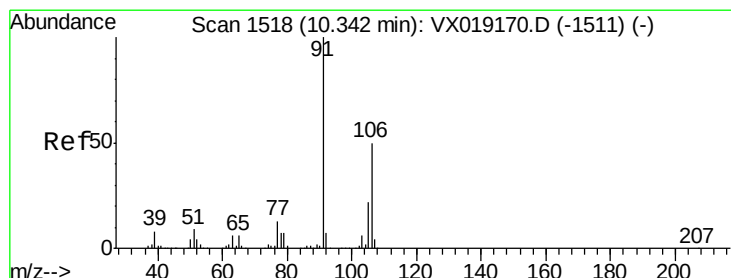
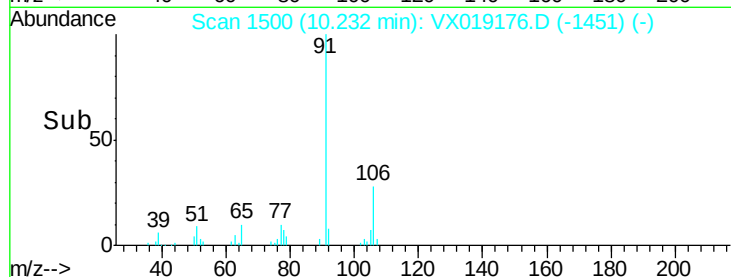
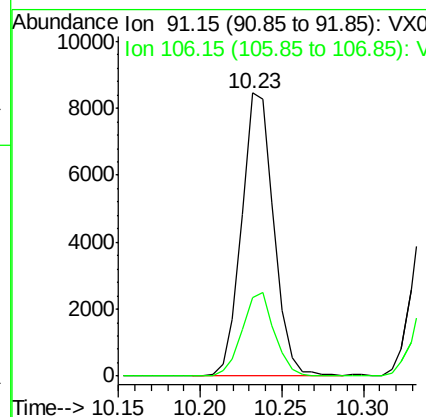
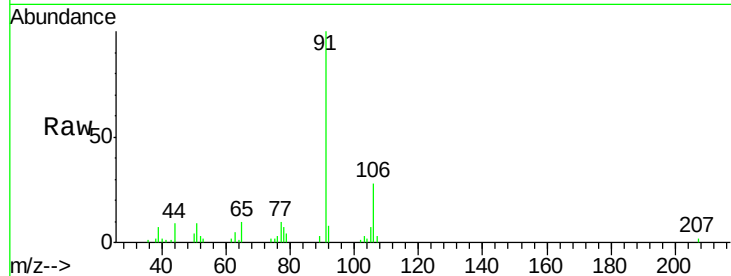
106 27.6 21.1 39.1

Manual Integrations

APPROVED

MMDadoda

10/29/2020 11:04:27 AM



#53

m,p-xylene

Concen: 0.196 ug/L

RT: 10.34 min Scan# 1518

Delta R.T. 0.00 min

Lab File: VX019176.D

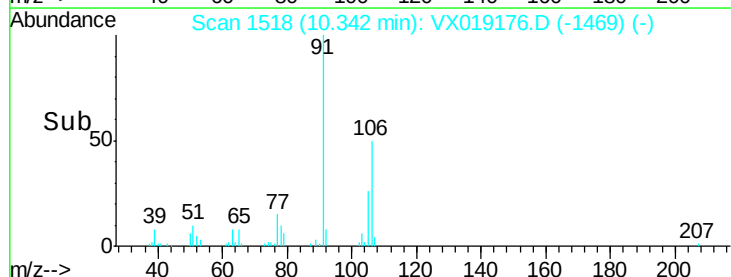
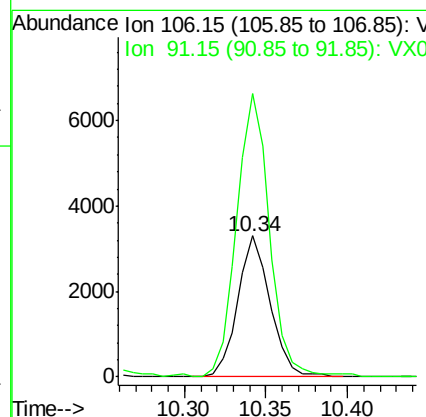
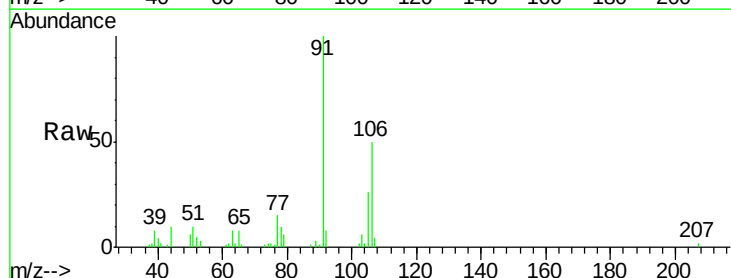
Acq: 28 Oct 2020 20:50

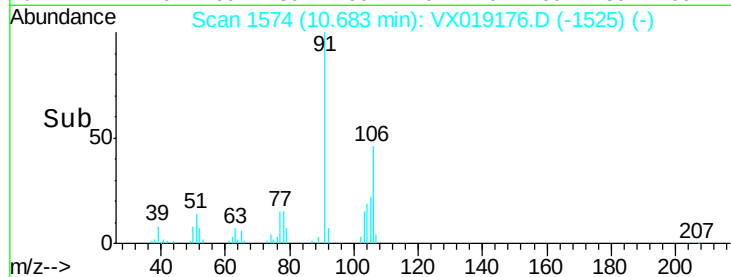
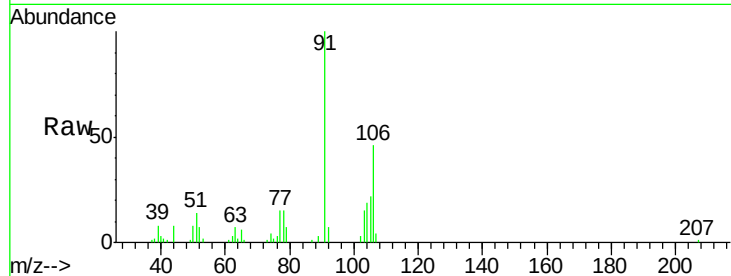
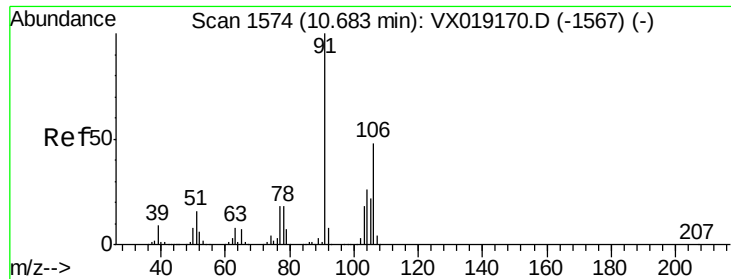
Tgt Ion: 106 Resp: 4586

Ion Ratio Lower Upper

106 100

91 200.5 141.5 262.7





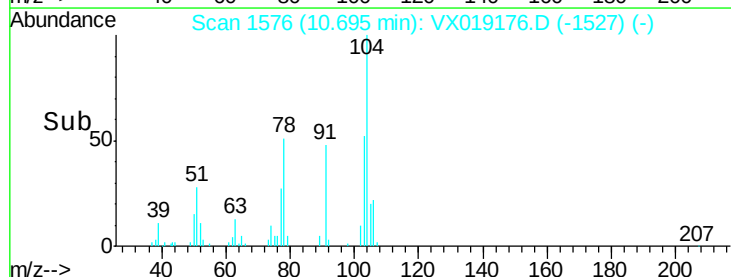
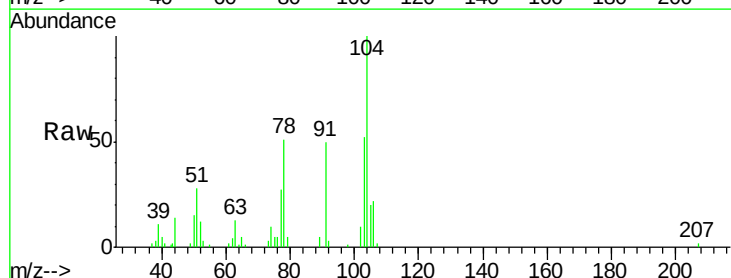
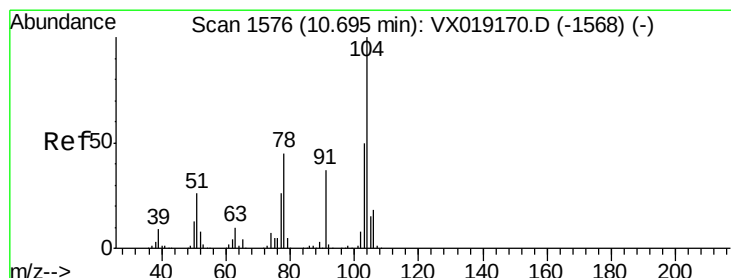
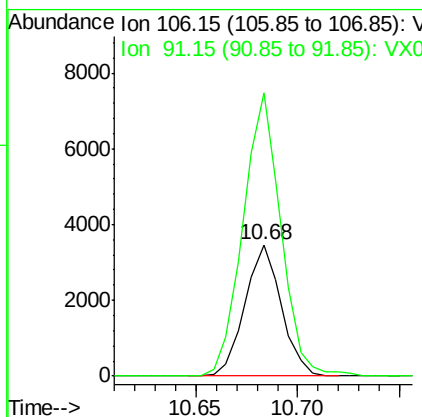
#54
o-xylene
Concen: 0.192 ug/L
RT: 10.68 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VX019176.D
Acq: 28 Oct 2020 20:50

Tot Ion:106 Resp: 4302
Ion Ratio Lower Upper
106 100
91 215.3 145.9 271.1

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-01

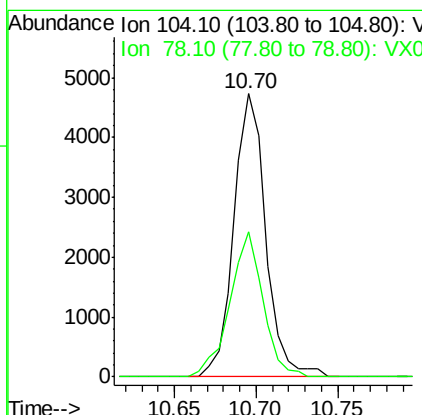
Manual Integrations
APPROVED

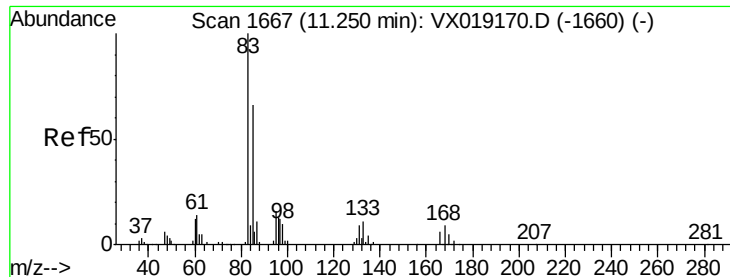
MMDadoda
10/29/2020 11:04:27 AM



#55
Styrene
Concen: 0.176 ug/L
RT: 10.70 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VX019176.D
Acq: 28 Oct 2020 20:50

Tgt Ion:104 Resp: 6444
Ion Ratio Lower Upper
104 100
78 51.4 31.7 58.9





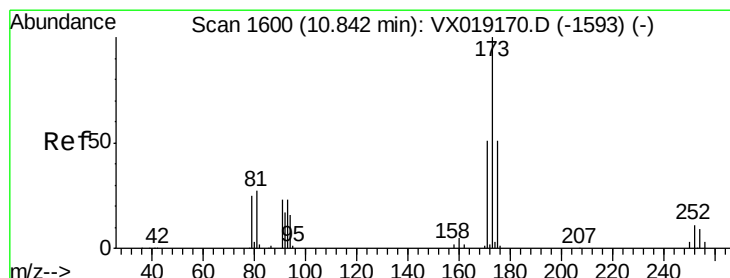
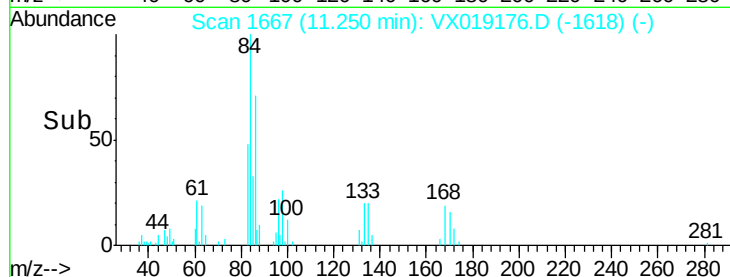
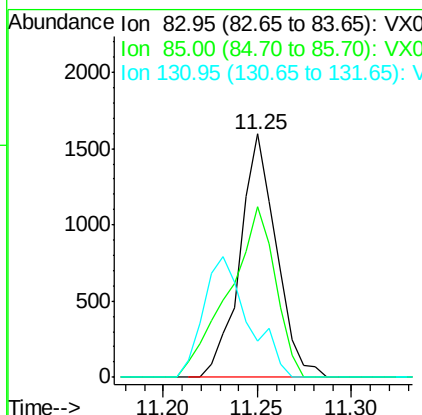
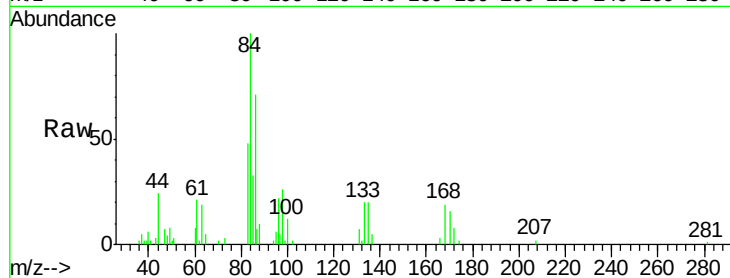
#57
 1,1,2,2-Tetrachloroethane
 Concen: 0.217 ug/L
 RT: 11.25 min Scan# 1667
 Delta R.T. 0.00 min
 Lab File: VX019176.D
 Acq: 28 Oct 2020 20:50

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-01

Tot Ion	Ratio	Lower	Upper
83	100		
85	70.1	46.0	85.4
131	14.9	7.7	11.5#

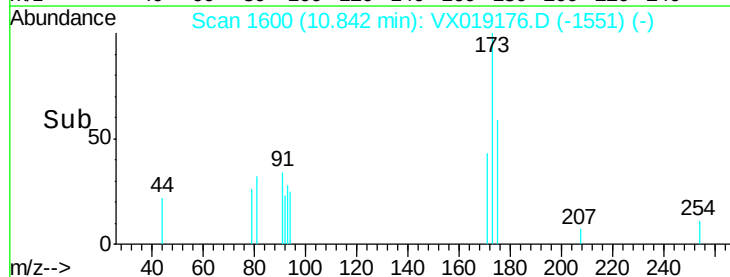
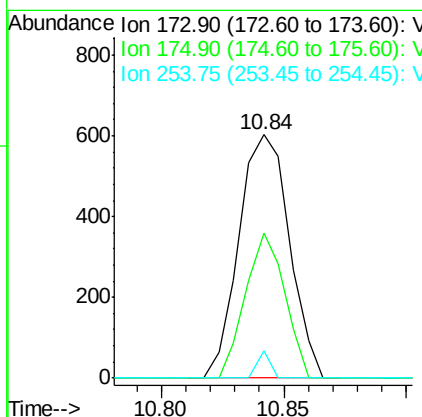
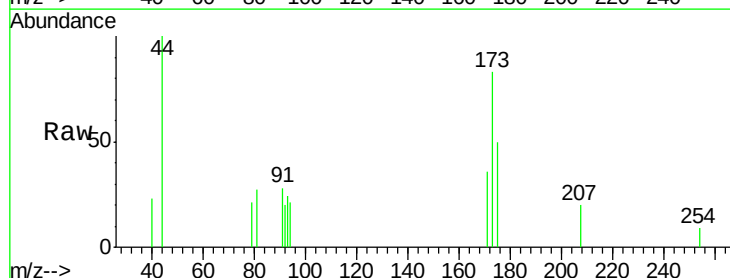
Manual Integrations
 APPROVED

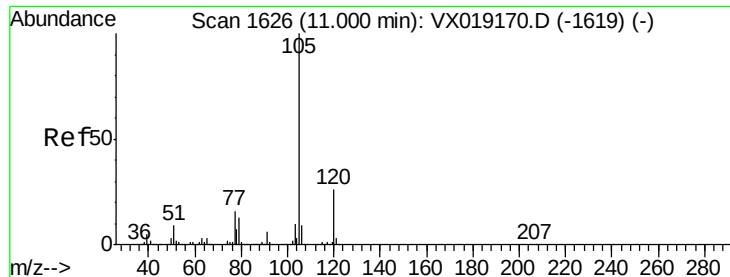
MMDadoda
 10/29/2020 11:04:27 AM



#59
 Bromoform
 Concen: 0.170 ug/L
 RT: 10.84 min Scan# 1600
 Delta R.T. 0.00 min
 Lab File: VX019176.D
 Acq: 28 Oct 2020 20:50

Tgt Ion	Ratio	Lower	Upper
173	100		
175	46.4	38.6	57.8
254	2.9	7.4	11.0#





#60

Isopropylbenzene

Concen: 0.201 ug/L

RT: 11.00 min Scan# 1626

Delta R.T. 0.00 min

Lab File: VX019176.D

Acq: 28 Oct 2020 20:50

Instrument :

MSVOA_X

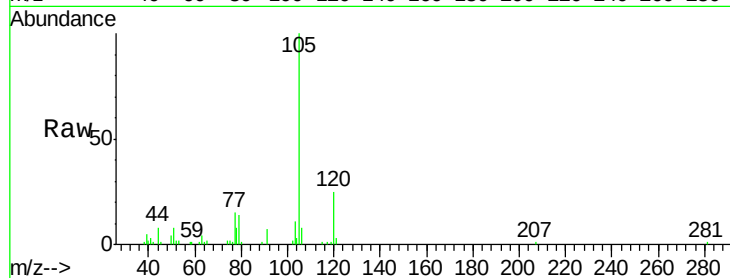
ClientSampleId :

MDL-WATER-01

Tot Ion:	105	Resp:	11412
Ion Ratio	Lower	Upper	
105	100		
120	24.8	21.4	32.2
77	15.2	12.9	19.3

Manual Integrations
APPROVED

MMDadoda
10/29/2020 11:04:27 AM

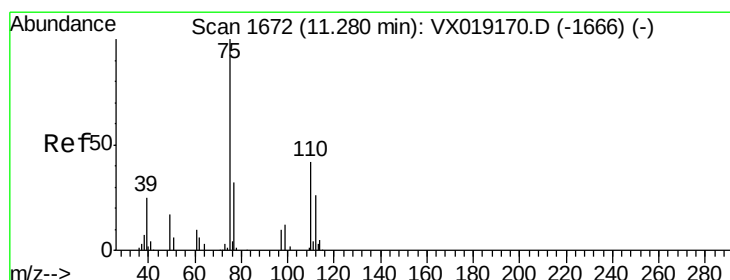
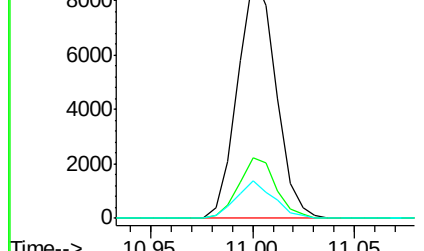
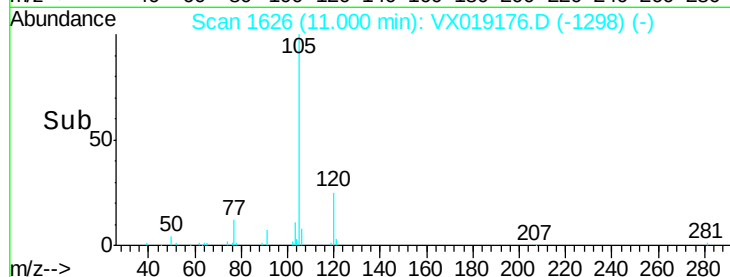


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V

Time-->



#61

1,2,3-Trichloropropane

Concen: 0.223 ug/L

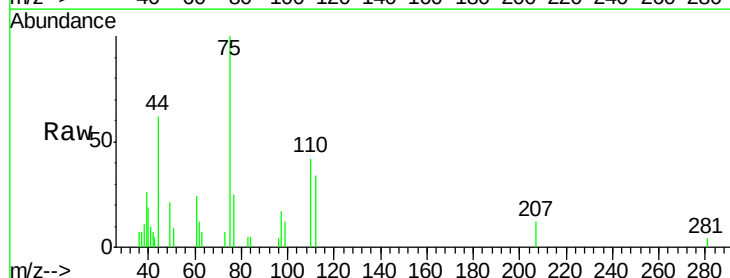
RT: 11.28 min Scan# 1672

Delta R.T. 0.00 min

Lab File: VX019176.D

Acq: 28 Oct 2020 20:50

Tgt Ion:	75	Resp:	1545
Ion Ratio	Lower	Upper	
75	100		
77	30.8	25.6	38.4
110	39.5	32.4	48.6

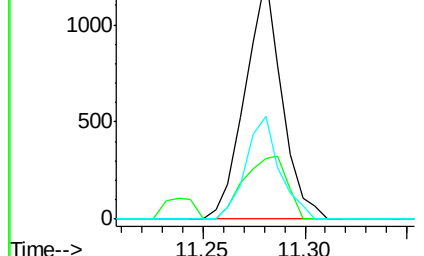
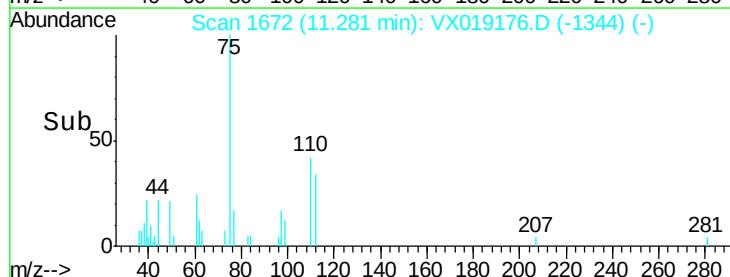


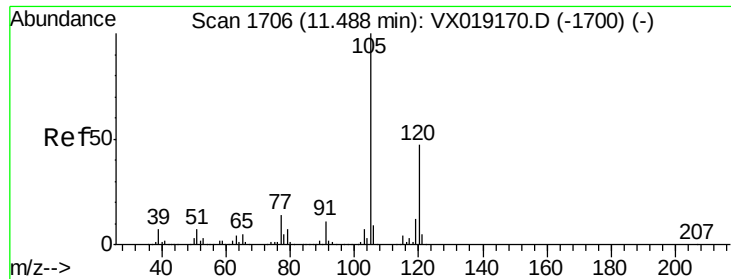
Abundance Ion 75.00 (74.70 to 75.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

Ion 110.00 (109.70 to 110.70): V

Time-->





#62

1,3,5-Trimethylbenzene

Concen: 0.190 ug/L

RT: 11.49 min Scan# 1707

Delta R.T. 0.01 min

Lab File: VX019176.D

Acq: 28 Oct 2020 20:50

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-01

Tot Ion:105 Resp: 9023

Ion Ratio Lower Upper

105 100

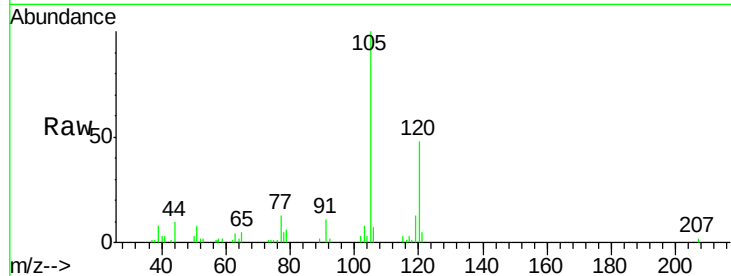
120 46.9 38.9 58.3

Manual Integrations

APPROVED

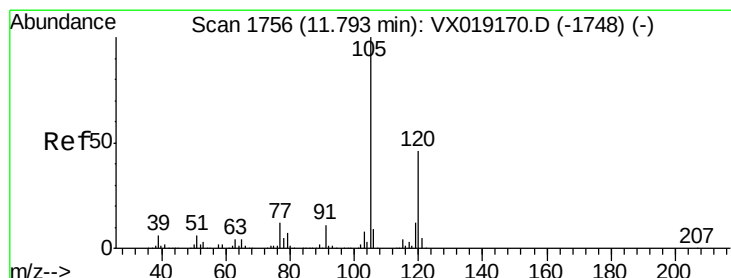
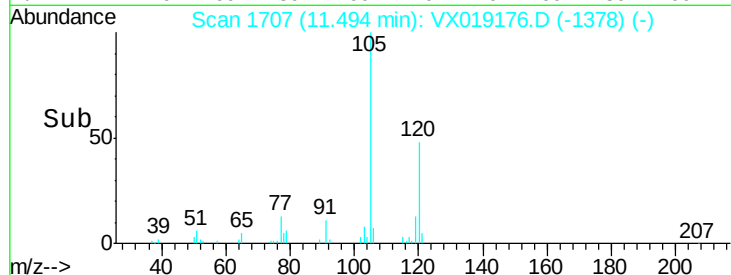
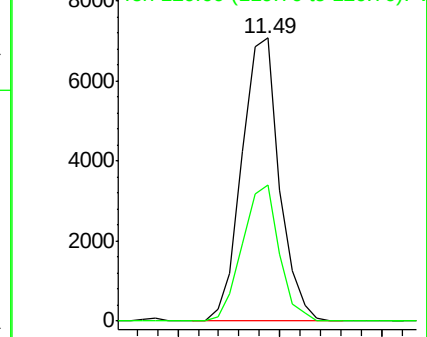
MMDadoda

10/29/2020 11:04:27 AM



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: 0.193 ug/L

RT: 11.79 min Scan# 1756

Delta R.T. 0.00 min

Lab File: VX019176.D

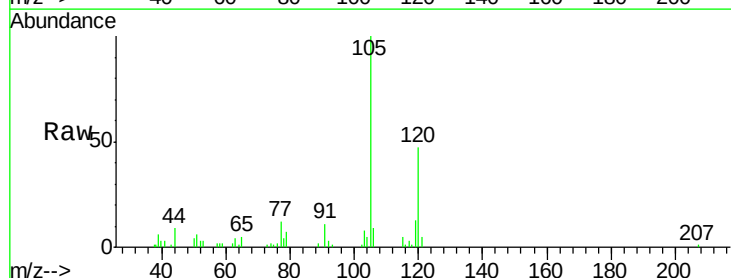
Acq: 28 Oct 2020 20:50

Tgt Ion:105 Resp: 9268

Ion Ratio Lower Upper

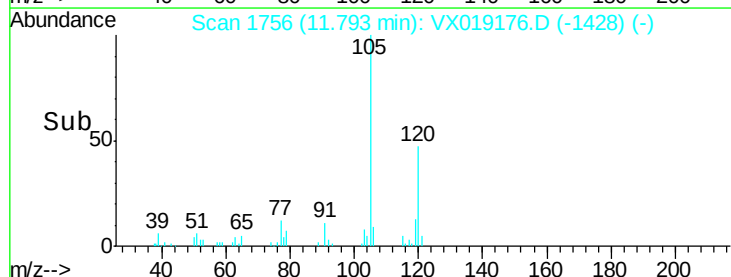
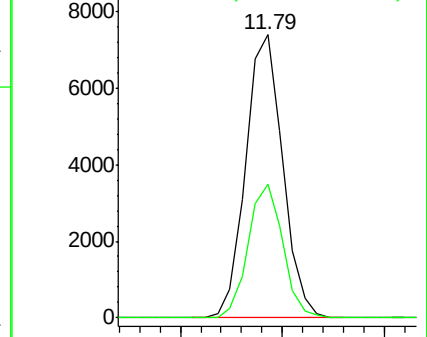
105 100

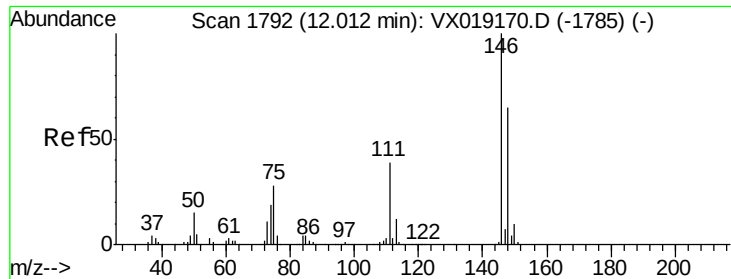
120 44.1 36.1 54.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





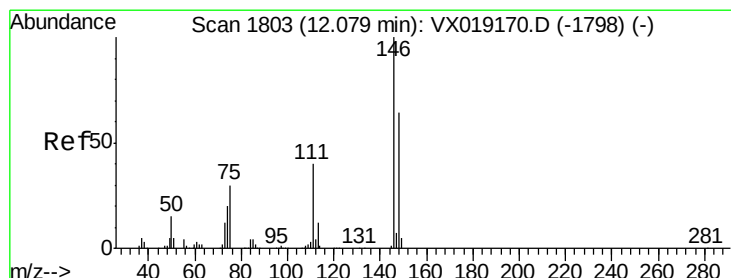
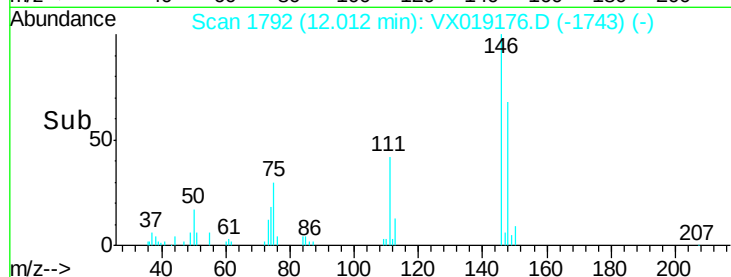
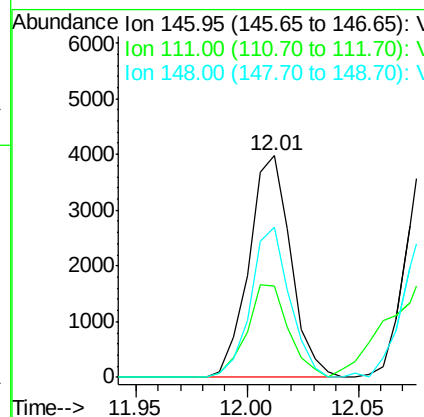
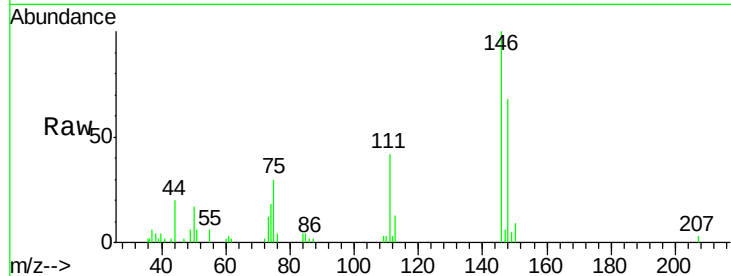
#64
 1,3-Dichlorobenzene
 Concen: 0.207 ug/L
 RT: 12.01 min Scan# 1792
 Delta R.T. 0.00 min
 Lab File: VX019176.D
 Acq: 28 Oct 2020 20:50

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-01

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.5	27.3	50.7
148	67.7	45.4	84.2

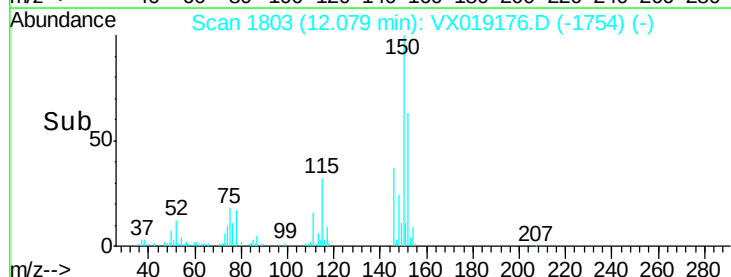
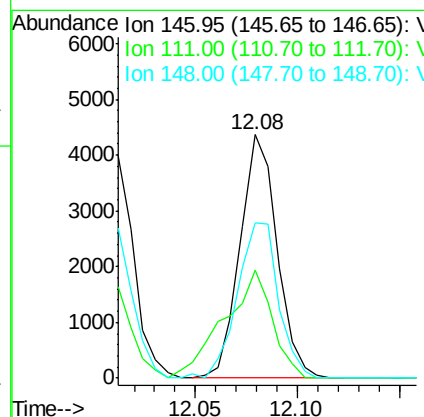
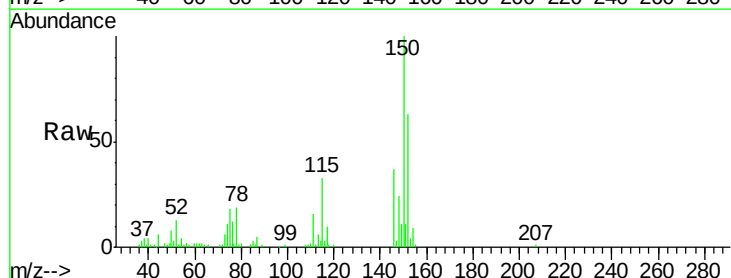
Manual Integrations
 APPROVED

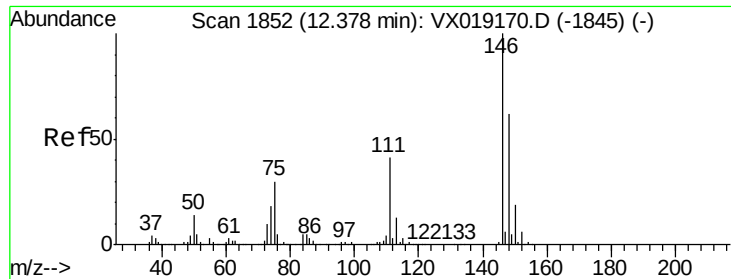
MMDadoda
 10/29/2020 11:04:27 AM



#65
 1,4-Dichlorobenzene
 Concen: 0.219 ug/L
 RT: 12.08 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VX019176.D
 Acq: 28 Oct 2020 20:50

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.2	28.1	52.3
148	63.8	44.5	82.7





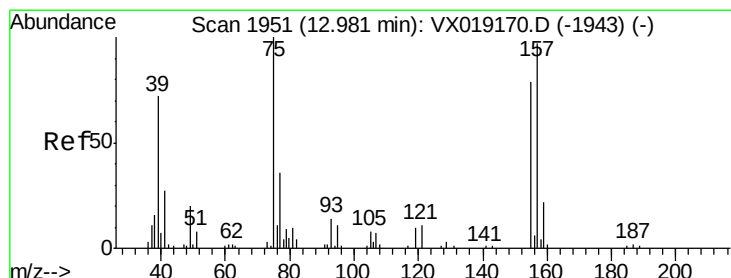
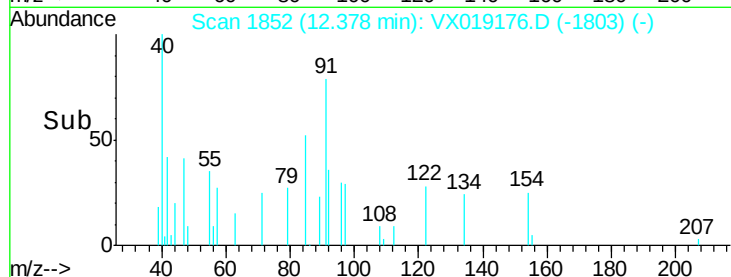
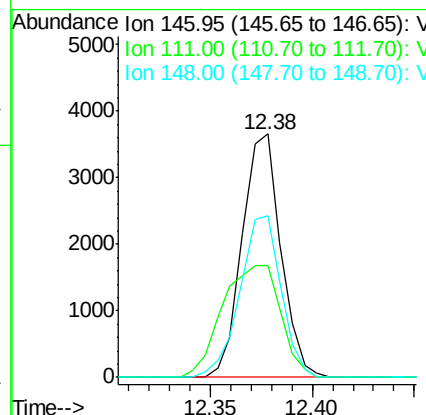
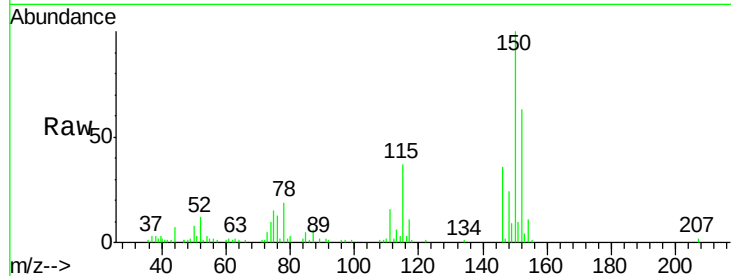
#67
 1,2-Dichlorobenzene
 Concen: 0.207 ug/L
 RT: 12.38 min Scan# 1852
 Delta R.T. 0.00 min
 Lab File: VX019176.D
 Acq: 28 Oct 2020 20:50

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-01

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.0	32.6	49.0
148	66.6	49.4	74.2

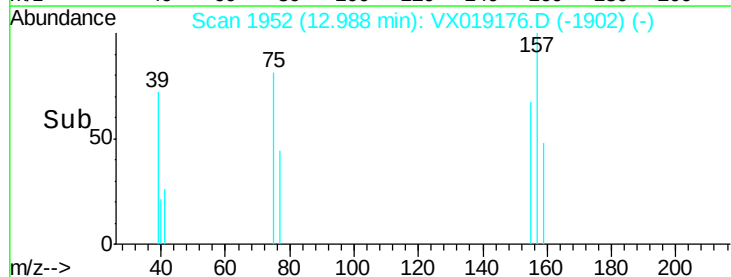
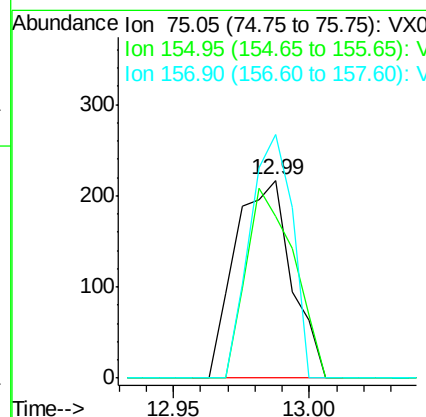
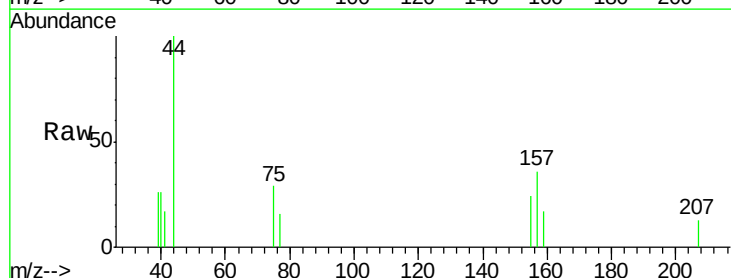
Manual Integrations
 APPROVED

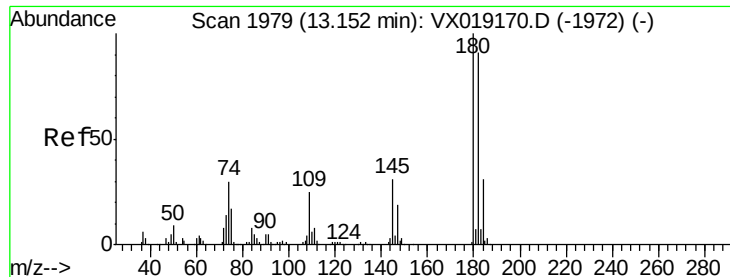
MMDadoda
 10/29/2020 11:04:27 AM



#68
 1,2-Dibromo-3-chloropropane
 Concen: 0.196 ug/L
 RT: 12.99 min Scan# 1952
 Delta R.T. 0.01 min
 Lab File: VX019176.D
 Acq: 28 Oct 2020 20:50

Tgt Ion	Ratio	Lower	Upper
75	100		
155	82.0	62.9	94.3
157	123.0	77.5	116.3





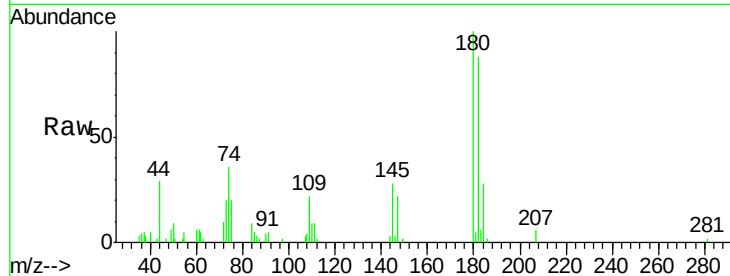
#69
 1,3,5-Trichlorobenzene
 Concen: 0.197 ug/L
 RT: 13.15 min Scan# 1979
 Delta R.T. 0.00 min
 Lab File: VX019176.D
 Acq: 28 Oct 2020 20:50

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-01

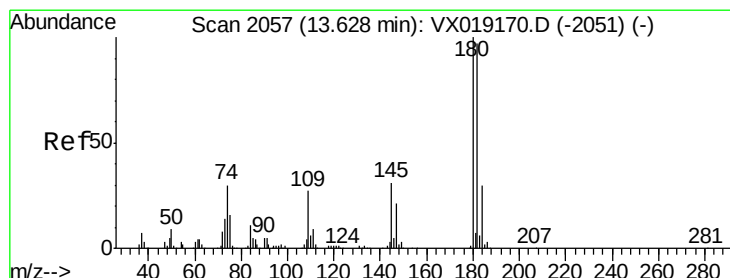
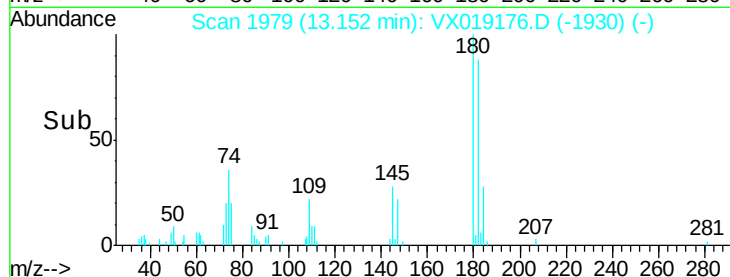
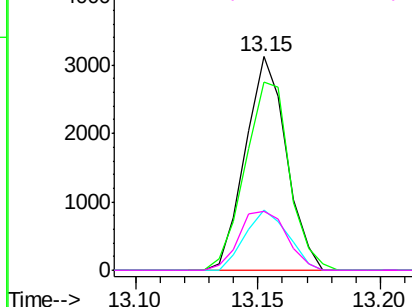
Tot Ion:180	Resp:	3646
Ion Ratio	Lower	Upper
180	100	
182	95.3	74.1 111.1
184	29.2	24.4 36.6
145	32.3	24.9 37.3

Manual Integrations
 APPROVED

MMDadoda
 10/29/2020 11:04:27 AM

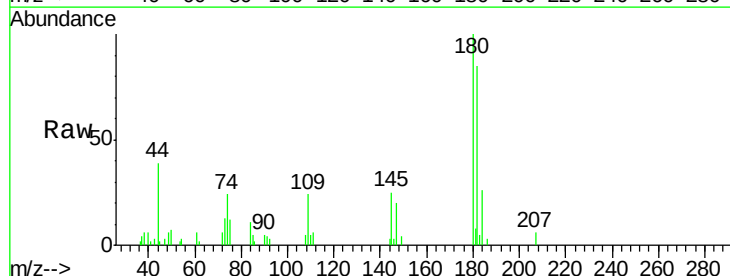


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

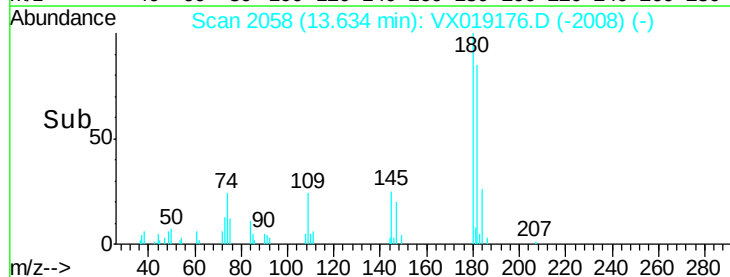
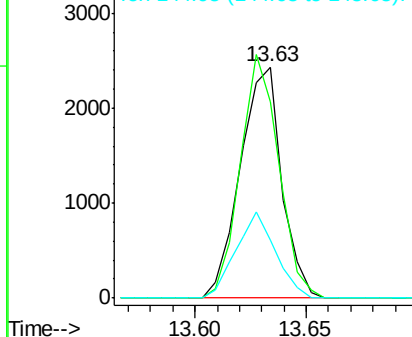


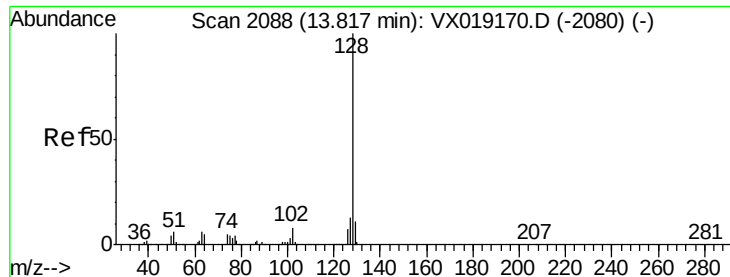
#70
 1,2,4-trichlorobenzene
 Concen: 0.196 ug/L
 RT: 13.63 min Scan# 2058
 Delta R.T. 0.01 min
 Lab File: VX019176.D
 Acq: 28 Oct 2020 20:50

Tgt Ion:180	Resp:	3161
Ion Ratio	Lower	Upper
180	100	
182	97.8	77.8 116.6
145	35.2	25.0 37.4



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





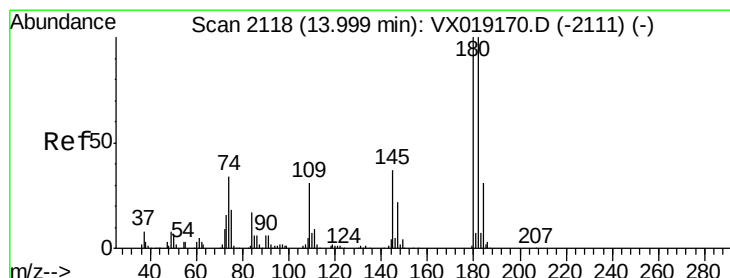
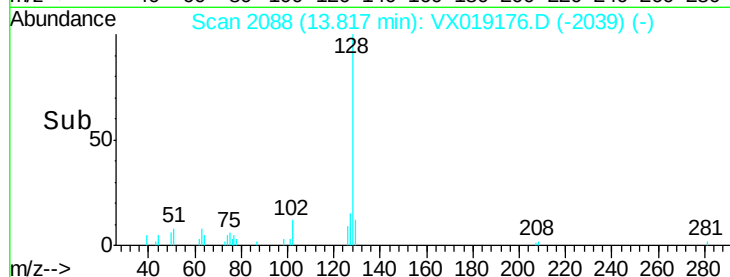
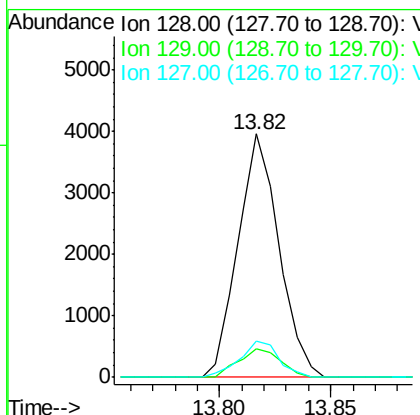
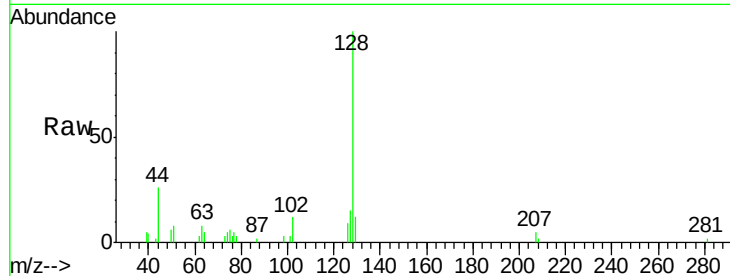
#71
Naphthalene
Concen: 0.175 ug/L
RT: 13.82 min Scan# 2088
Delta R.T. 0.00 min
Lab File: VX019176.D
Acq: 28 Oct 2020 20:50

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-01

Tot Ion	Ratio	Lower	Upper
128	100		
129	11.9	8.6	13.0
127	14.1	10.1	15.1

Manual Integrations
APPROVED

MMDadoda
10/29/2020 11:04:27 AM



#72
1,2,3-Trichlorobenzene
Concen: 0.195 ug/L
RT: 14.00 min Scan# 2118
Delta R.T. 0.00 min
Lab File: VX019176.D
Acq: 28 Oct 2020 20:50

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.7	77.0	115.4
145	34.1	27.8	41.6

