

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX070918\
 Data File : VX003256.D
 Acq On : 09 Jul 2018 20:57
 Operator : JC/MD
 Sample : J3762-09 MDL 0.2PPB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT3-2018

Manual Integrations
 APPROVED

MMDadoda
 7/10/2018 3:11:52 PM

Quant Time: Jul 10 04:26:52 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X070918W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 09 15:24:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	255241	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	335131	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	296935	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	190310	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	209450	52.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.28%	
35) Dibromofluoromethane	5.51	113	176369	48.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.98%	
50) Toluene-d8	8.72	98	629589	49.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.46%	
62) 4-Bromofluorobenzene	11.14	95	216100	45.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.46%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	909	0.23	ug/l	76
3) Chloromethane	1.32	50	1804	0.51	ug/l #	85
4) Vinyl Chloride	1.40	62	869	0.24	ug/l #	1
5) Bromomethane	1.64	94	3135	Below	Cal	83
7) Trichlorofluoromethane	1.93	101	1342	0.25	ug/l	100
8) Diethyl Ether	2.19	74	475	0.24	ug/l	86
9) 1,1,2-Trichlorotrifluoroet	2.38	101	940	0.30	ug/l #	91
10) Methyl Iodide	2.52	142	4094	6.69	ug/l	97
11) Tert butyl alcohol	3.07	59	1245	1.71	ug/l #	78
12) 1,1-Dichloroethene	2.37	96	745	0.26	ug/l #	74
13) Acrolein	2.29	56	851	1.45	ug/l #	45
14) Allyl chloride	2.73	41	1307	0.25	ug/l #	80
15) Acrylonitrile	3.15	53	1945	1.20	ug/l #	83
16) Acetone	2.45	43	2364	1.66	ug/l	96
17) Carbon Disulfide	2.57	76	3046	0.38	ug/l #	92
18) Methyl Acetate	2.78	43	1040	0.26	ug/l	94
20) Methylene Chloride	2.87	84	1405	Below	Cal #	75
21) trans-1,2-Dichloroethene	3.17	96	875	0.29	ug/l #	79
22) Diisopropyl ether	3.89	45	2383	0.22	ug/l #	90
23) Vinyl Acetate	3.82	43	6636	0.72	ug/l #	88
24) 1,1-Dichloroethane	3.70	63	1409	0.25	ug/l #	92
25) 2-Butanone	4.72	43	2516	1.00	ug/l	92
27) cis-1,2-Dichloroethene	4.60	96	960	0.26	ug/l #	1
28) Bromochloromethane	5.01	49	704	0.25	ug/l #	57
29) Tetrahydrofuran	5.18	42	2501	1.53	ug/l	99
30) Chloroform	5.22	83	1451	0.23	ug/l	92
31) Cyclohexane	5.57	56	1196m	0.23	ug/l	
32) 1,1,1-Trichloroethane	5.50	97	1220	0.22	ug/l #	23
36) 1,1-Dichloropropene	5.81	75	1541	0.32	ug/l #	68
37) Ethyl Acetate	4.88	43	1258	0.24	ug/l #	73
38) Carbon Tetrachloride	5.79	117	1310	0.25	ug/l #	82
39) Methylcyclohexane	7.47	83	1538	0.28	ug/l #	88
40) Benzene	6.15	78	2836	0.20	ug/l	100
42) 1,2-Dichloroethane	6.21	62	1078	0.21	ug/l	83

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070918\
 Data File : VX003256.D
 Acq On : 09 Jul 2018 20:57
 Operator : JC/MD
 Sample : J3762-09 MDL 0.2PPB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT3-2018

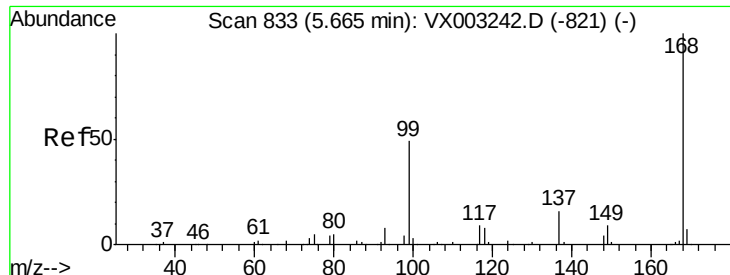
Manual Integrations
 APPROVED

MMDadoda
 7/10/2018 3:11:52 PM

Quant Time: Jul 10 04:26:52 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X070918W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 09 15:24:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Trichloroethene	7.22	130	1042	0.25	ug/l	82
45) 1,2-Dichloropropane	7.52	63	818	0.22	ug/l #	69
46) Dibromomethane	7.66	93	517	0.21	ug/l #	75
48) Methyl methacrylate	7.78	41	1128	0.27	ug/l #	54
49) 1,4-Dioxane	7.76	88	345	3.94	ug/l #	62
51) 4-Methyl-2-Pentanone	8.66	43	4097	0.81	ug/l	95
52) Toluene	8.79	92	1895	0.21	ug/l	93
54) cis-1,3-Dichloropropene	9.05	75	989	0.20	ug/l #	82
58) 2-Chloroethyl Vinyl ether	8.32	63	1896	0.78	ug/l	96
59) 2-Hexanone	9.51	43	3354	0.87	ug/l	89
61) 1,2-Dibromoethane	9.68	107	774	0.20	ug/l	96
64) Tetrachloroethene	9.34	164	1288	0.29	ug/l	94
65) Chlorobenzene	10.14	112	2543	0.25	ug/l	91
67) Ethyl Benzene	10.26	91	3578	0.22	ug/l	93
68) m/p-Xylenes	10.37	106	2696	0.42	ug/l	99
73) Isopropylbenzene	11.02	105	3175	0.21	ug/l	96
74) N-amyl acetate	6.48	43	1630	0.23	ug/l #	91
75) 1,1,2,2-Tetrachloroethane	11.27	83	974	0.21	ug/l	98
76) 1,2,3-Trichloropropane	11.30	75	840m	0.20	ug/l	
77) Bromobenzene	11.26	156	1174	0.27	ug/l	96
78) n-propylbenzene	11.37	91	4266	0.26	ug/l	97
79) 2-Chlorotoluene	11.42	91	2636	0.26	ug/l	96
80) 1,3,5-Trimethylbenzene	11.51	105	2694	0.22	ug/l	95
82) 4-Chlorotoluene	11.52	91	3023	0.25	ug/l	88
83) tert-Butylbenzene	11.77	119	2603	0.21	ug/l	95
84) 1,2,4-Trimethylbenzene	11.81	105	2632	0.21	ug/l	79
85) sec-Butylbenzene	11.95	105	3206	0.22	ug/l	98
86) p-Isopropyltoluene	12.07	119	2951	0.22	ug/l #	76
87) 1,3-Dichlorobenzene	12.03	146	2105	0.26	ug/l	97
88) 1,4-Dichlorobenzene	12.10	146	2570m	0.32	ug/l	
89) n-Butylbenzene	12.39	91	2715	0.24	ug/l	96
91) 1,2-Dichlorobenzene	12.40	146	2002	0.25	ug/l	92
92) 1,2-Dibromo-3-Chloropropan	13.01	75	248	0.25	ug/l	80
93) 1,2,4-Trichlorobenzene	13.65	180	1832	0.32	ug/l	98
94) Hexachlorobutadiene	13.79	225	916	0.32	ug/l	95
95) Naphthalene	13.84	128	3394	0.22	ug/l	96
96) 1,2,3-Trichlorobenzene	14.02	180	1614	0.28	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX003256.D

Acq: 09 Jul 2018 20:57

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion:168 Resp: 255241

Ion Ratio Lower Upper

168 100

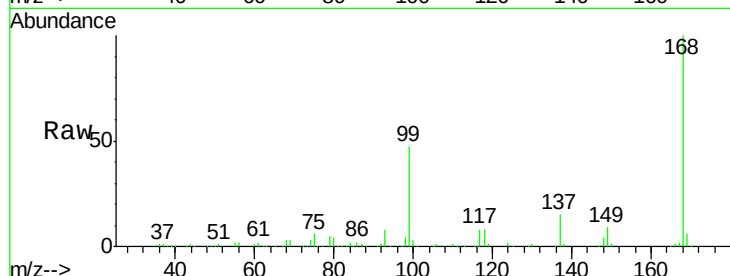
99 47.0 39.3 58.9

Manual Integrations

APPROVED

MMDadoda

7/10/2018 3:11:52 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

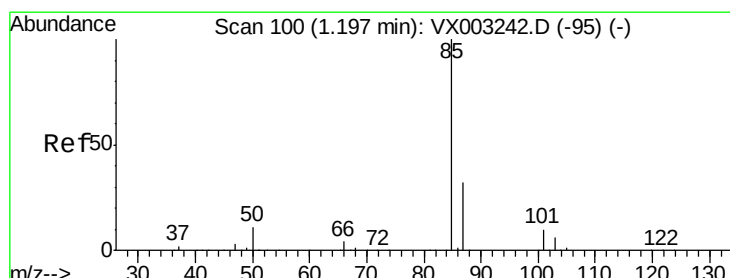
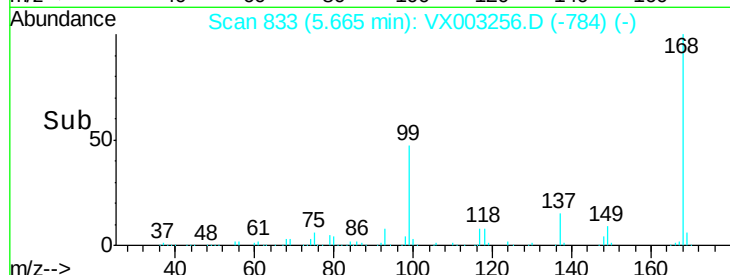
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.23 ug/l

RT: 1.20 min Scan# 100

Delta R.T. -0.00 min

Lab File: VX003256.D

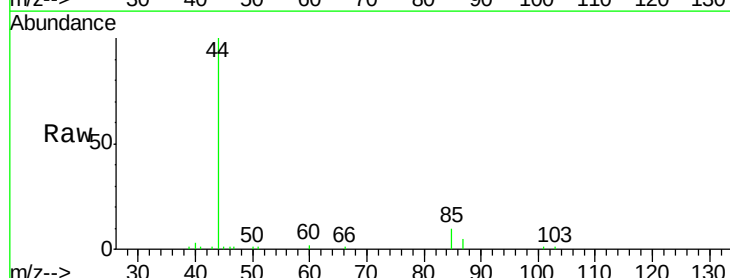
Acq: 09 Jul 2018 20:57

Tgt Ion: 85 Resp: 909

Ion Ratio Lower Upper

85 100

87 45.0 16.0 47.9



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

1000

800

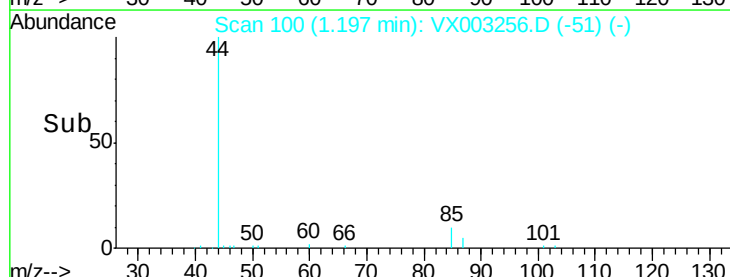
600

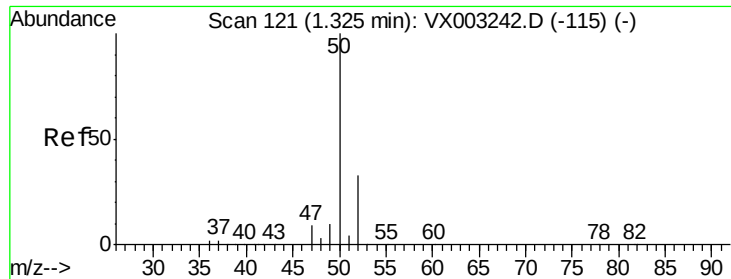
400

200

0

Time--> 1.15 1.20





#3

Chloromethane

Concen: 0.51 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX003256.D

Acq: 09 Jul 2018 20:57

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion: 50 Resp: 1804

Ion Ratio Lower Upper

50 100

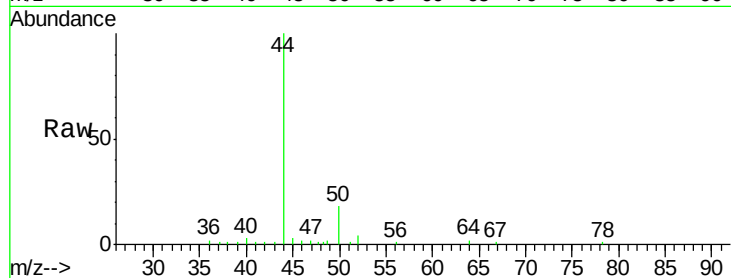
52 23.6 25.7 38.5#

Manual Integrations

APPROVED

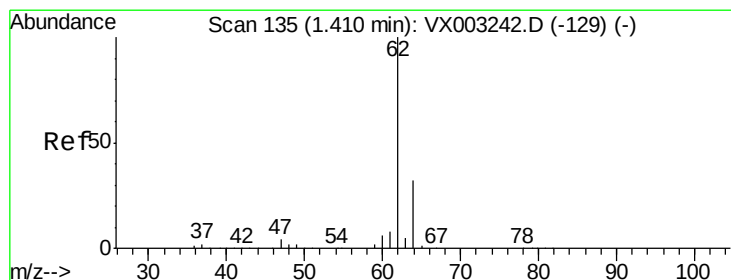
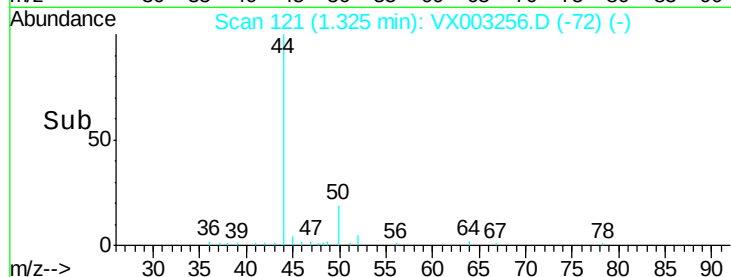
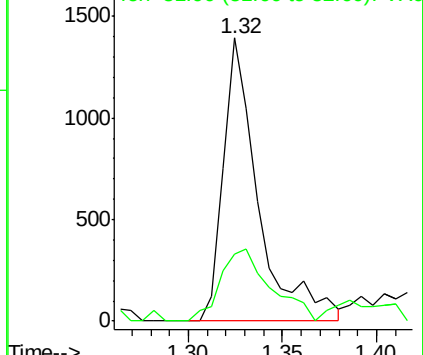
MMDadoda

7/10/2018 3:11:52 PM



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 0.24 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.00 min

Lab File: VX003256.D

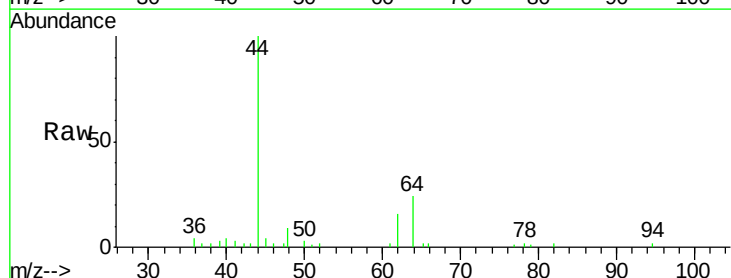
Acq: 09 Jul 2018 20:57

Tgt Ion: 62 Resp: 869

Ion Ratio Lower Upper

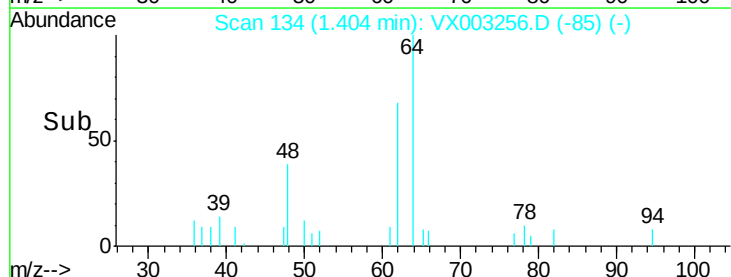
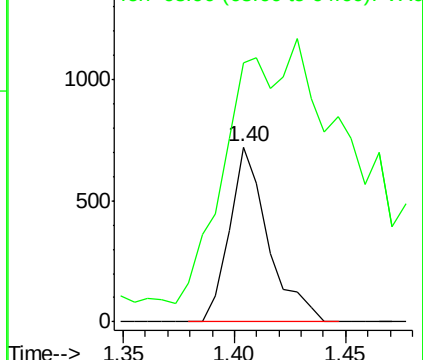
62 100

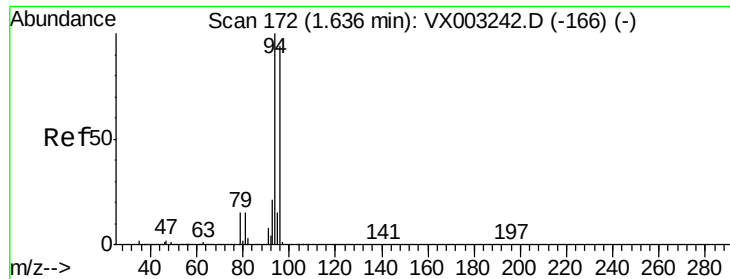
64 125.6 25.4 38.2#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 173

Delta R.T. 0.01 min

Lab File: VX003256.D

Acq: 09 Jul 2018 20:57

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion: 94 Resp: 3135

Ion Ratio Lower Upper

94 100

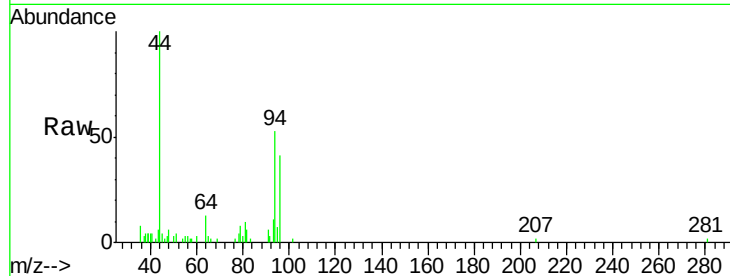
96 77.2 74.9 112.3

Manual Integrations

APPROVED

MMDadoda

7/10/2018 3:11:52 PM



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

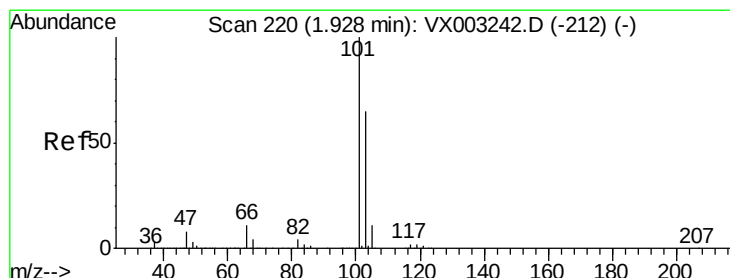
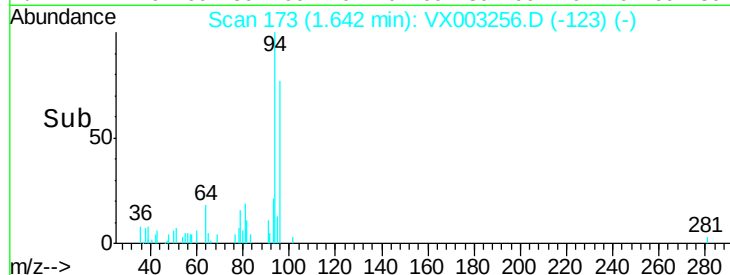
1500

1000

500

0

Time-->



#7

Trichlorofluoromethane

Concen: 0.25 ug/l

RT: 1.93 min Scan# 220

Delta R.T. 0.01 min

Lab File: VX003256.D

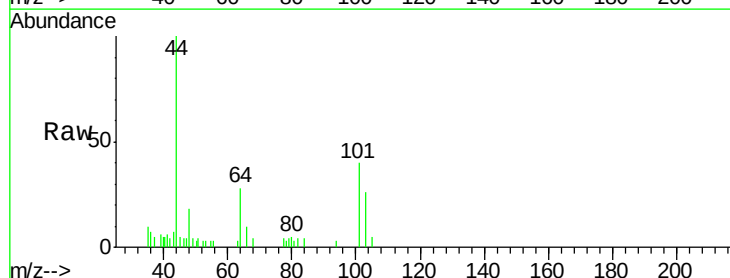
Acq: 09 Jul 2018 20:57

Tgt Ion:101 Resp: 1342

Ion Ratio Lower Upper

101 100

103 65.7 52.8 79.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

1.93

1000

800

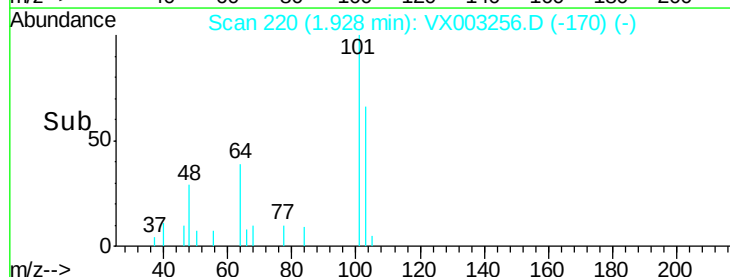
600

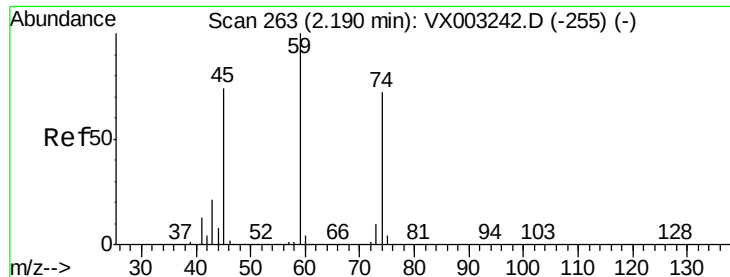
400

200

0

Time-->





#8

Diethyl Ether

Concen: 0.24 ug/l

RT: 2.19 min Scan# 263

Delta R.T. -0.00 min

Lab File: VX003256.D

Acq: 09 Jul 2018 20:57

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion: 74 Resp: 475

Ion Ratio Lower Upper

74 100

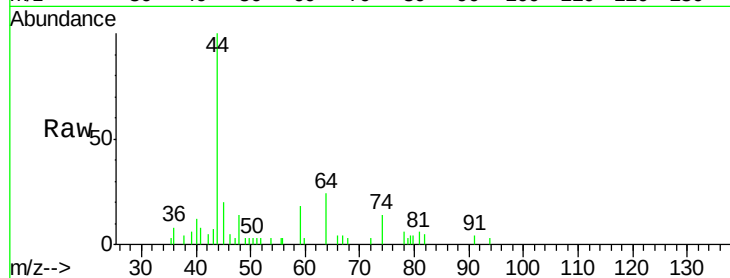
45 91.4 53.1 159.4

Manual Integrations

APPROVED

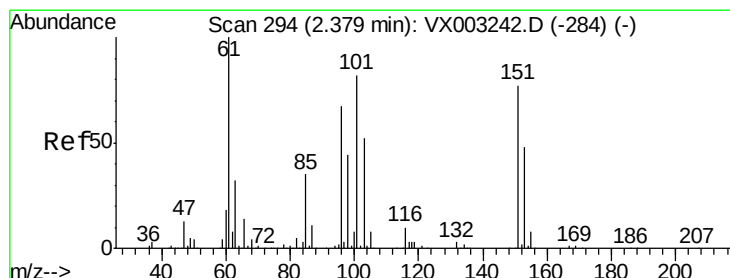
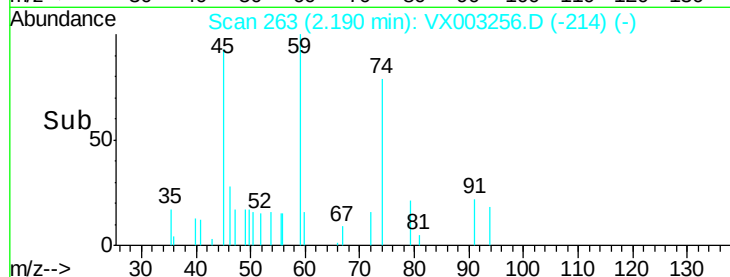
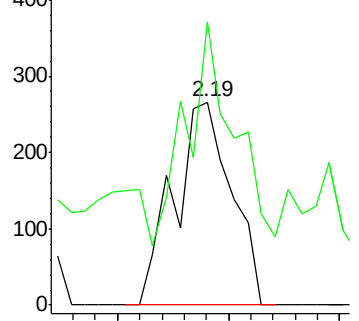
MMDadoda

7/10/2018 3:11:52 PM



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.30 ug/l

RT: 2.38 min Scan# 294

Delta R.T. -0.00 min

Lab File: VX003256.D

Acq: 09 Jul 2018 20:57

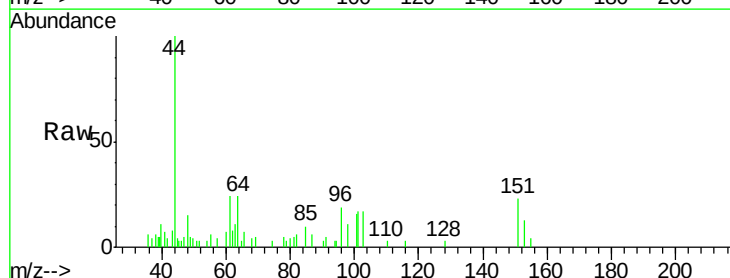
Tgt Ion: 101 Resp: 940

Ion Ratio Lower Upper

101 100

85 56.5 36.0 54.0#

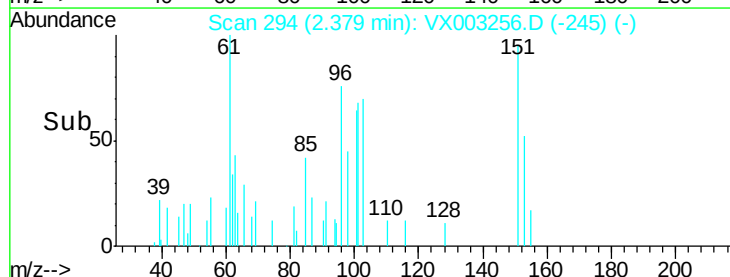
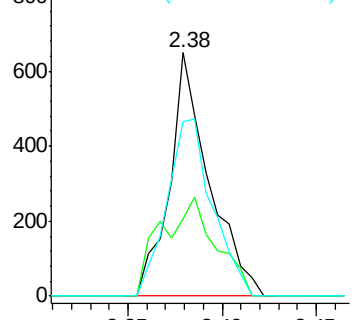
151 83.8 70.9 106.3

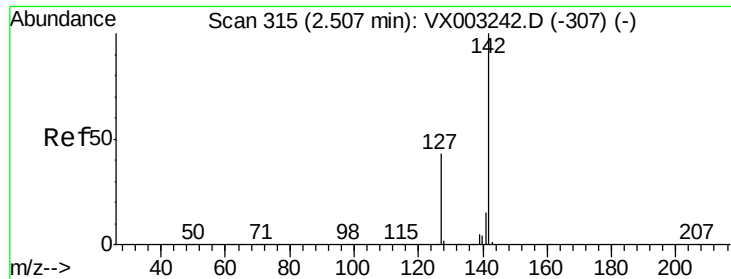


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V





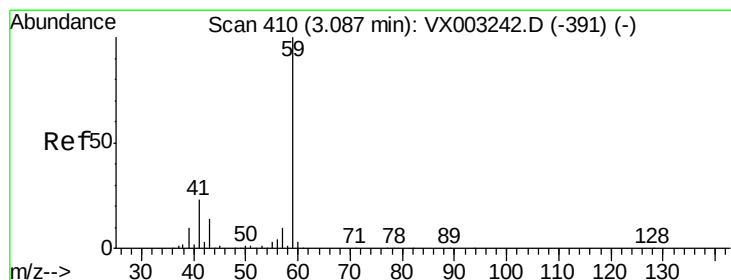
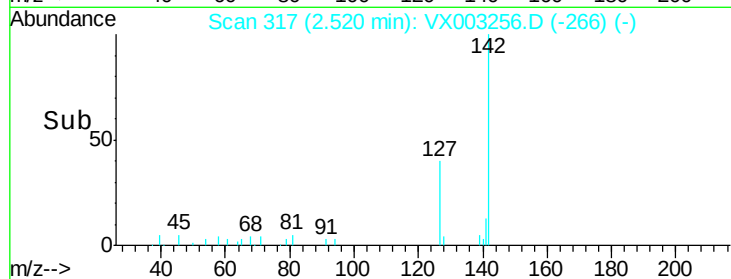
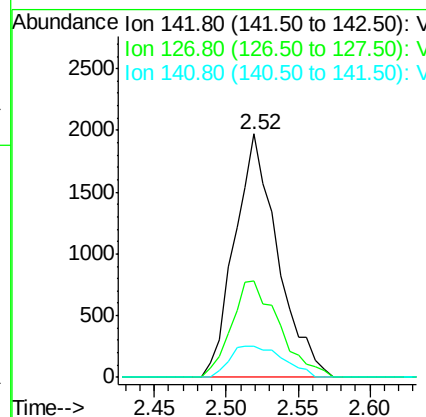
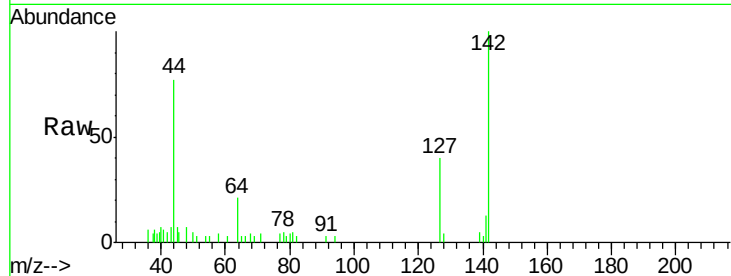
#10
Methvl Iodide
Concen: 6.69 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX003256.D
Acq: 09 Jul 2018 20:57

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT3-2018

Tot Ion: 142 Resp: 4094
Ion Ratio Lower Upper
142 100
127 44.1 36.6 55.0
141 16.0 11.3 16.9

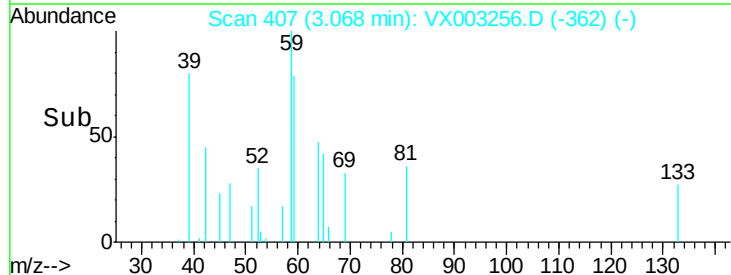
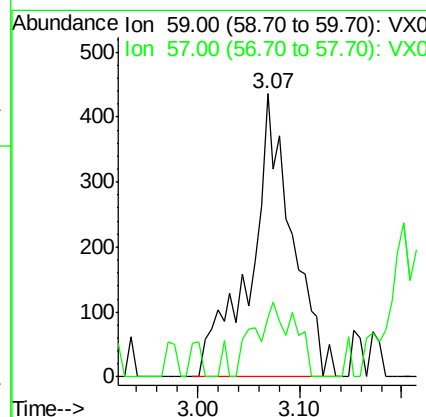
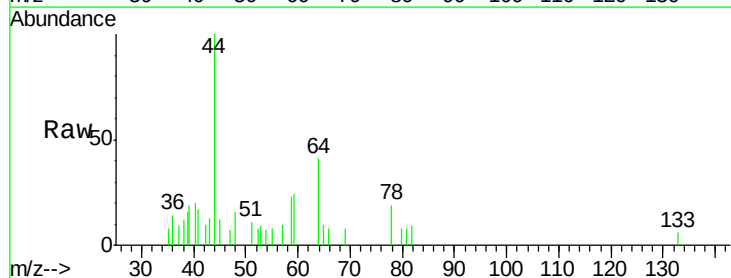
Manual Integrations
APPROVED

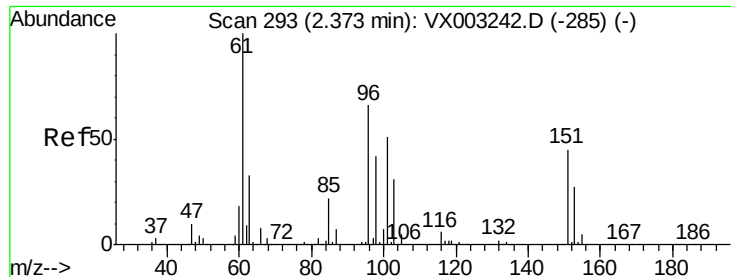
MMDadoda
7/10/2018 3:11:52 PM



#11
Tert butyl alcohol
Concen: 1.71 ug/l
RT: 3.07 min Scan# 407
Delta R.T. -0.02 min
Lab File: VX003256.D
Acq: 09 Jul 2018 20:57

Tgt Ion: 59 Resp: 1245
Ion Ratio Lower Upper
59 100
57 18.2 8.2 12.2#





#12

1,1-Dichloroethene

Concen: 0.26 ug/l

RT: 2.37 min Scan# 293

Delta R.T. 0.01 min

Lab File: VX003256.D

Acq: 09 Jul 2018 20:57

Instrument :

MSVOA_X

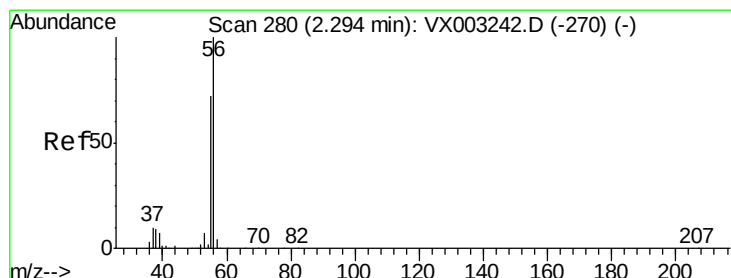
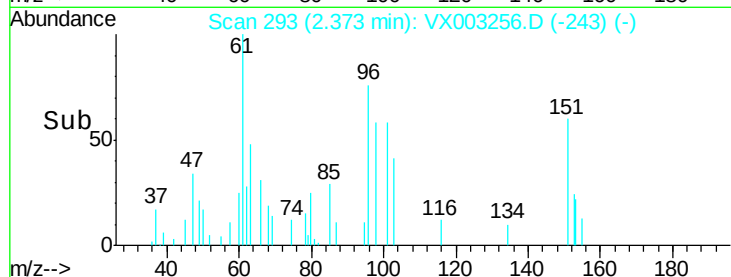
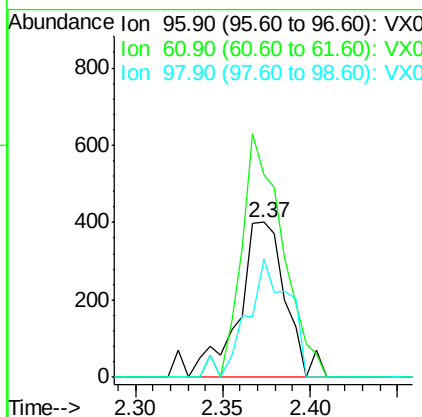
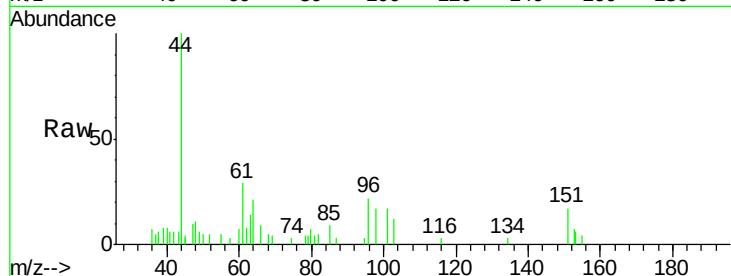
ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion:	96	Resp:	745
Ion	Ratio	Lower	Upper
96	100		
61	131.0	137.9	206.9#
98	76.5	51.6	77.4

Manual Integrations
APPROVED

MMDadoda
7/10/2018 3:11:52 PM



#13

Acrolein

Concen: 1.45 ug/l

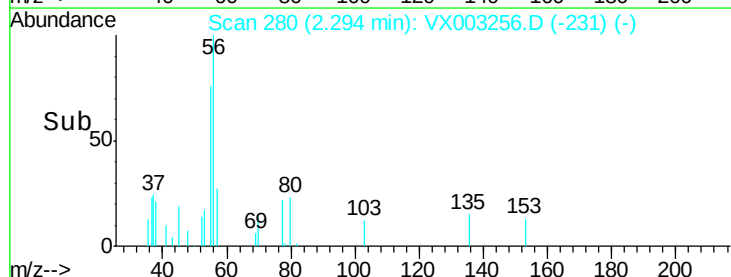
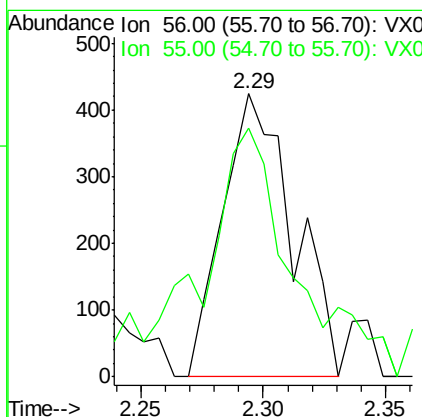
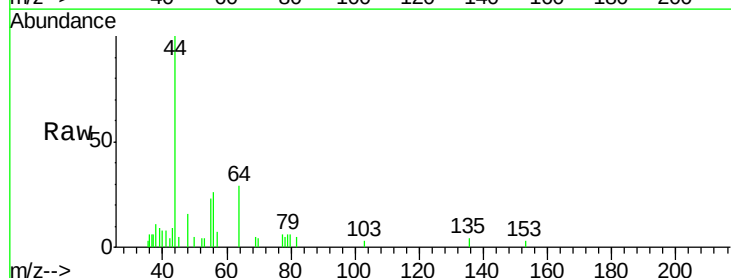
RT: 2.29 min Scan# 280

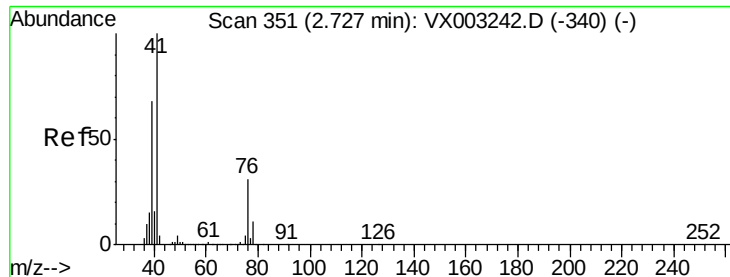
Delta R.T. -0.00 min

Lab File: VX003256.D

Acq: 09 Jul 2018 20:57

Tgt Ion:	56	Resp:	851
Ion	Ratio	Lower	Upper
56	100		
55	116.7	57.0	85.4#





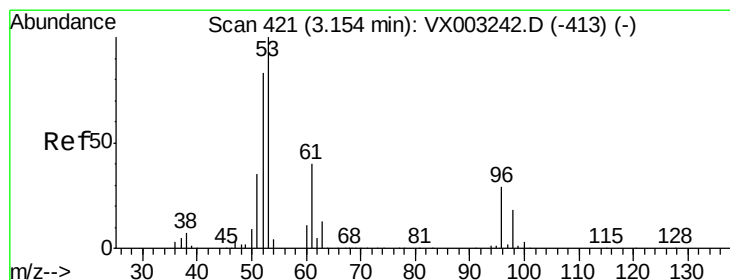
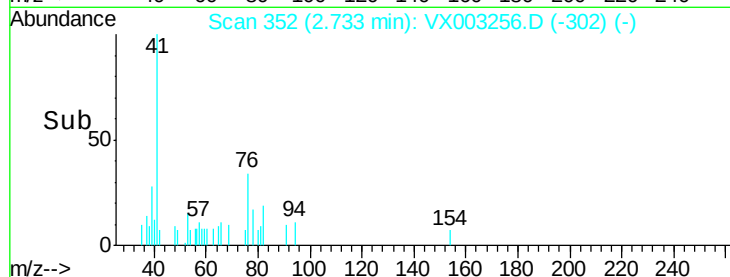
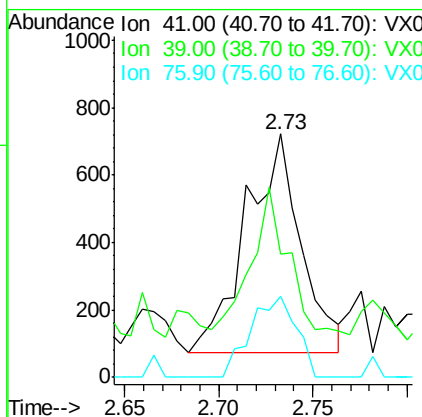
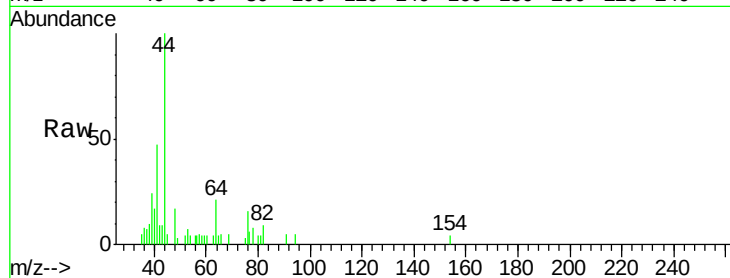
#14
Allvl chloride
Concen: 0.25 ug/l
RT: 2.73 min Scan# 352
Delta R.T. 0.01 min
Lab File: VX003256.D
Acq: 09 Jul 2018 20:57

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
41	100		
39	47.8	56.8	85.2#
76	30.9	23.8	35.8

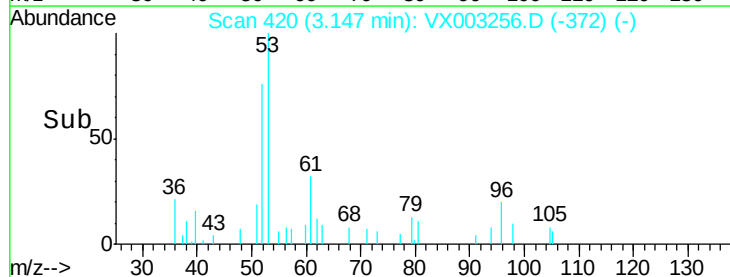
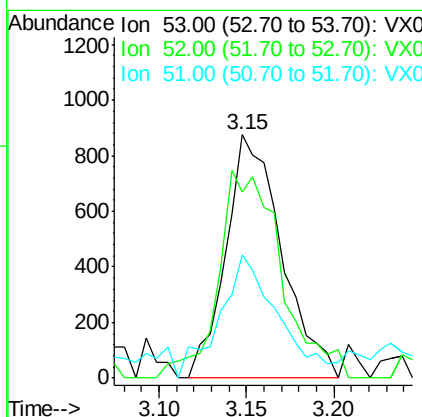
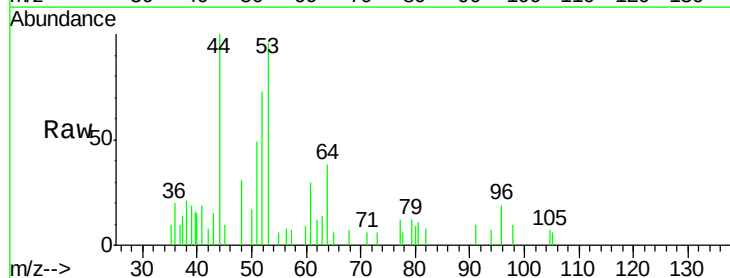
Manual Integrations
APPROVED

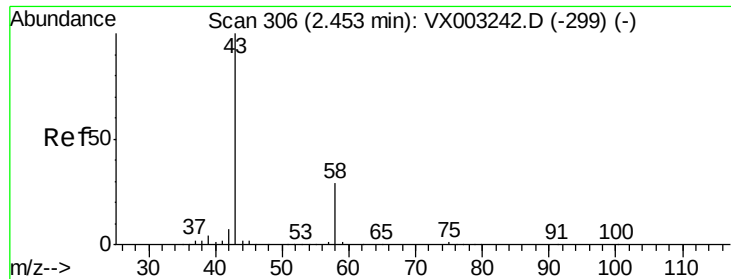
MMDadoda
7/10/2018 3:11:52 PM



#15
Acrylonitrile
Concen: 1.20 ug/l
RT: 3.15 min Scan# 420
Delta R.T. -0.01 min
Lab File: VX003256.D
Acq: 09 Jul 2018 20:57

Tgt Ion	Ratio	Lower	Upper
53	100		
52	96.1	66.7	100.1
51	52.2	29.9	44.9#





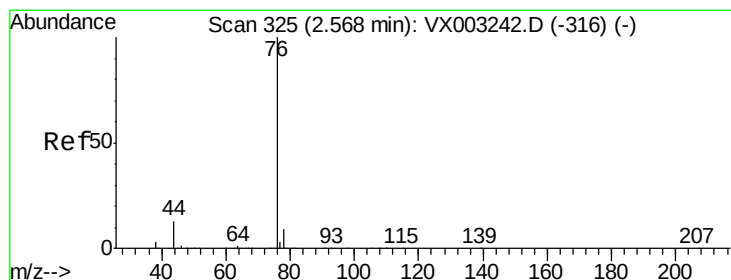
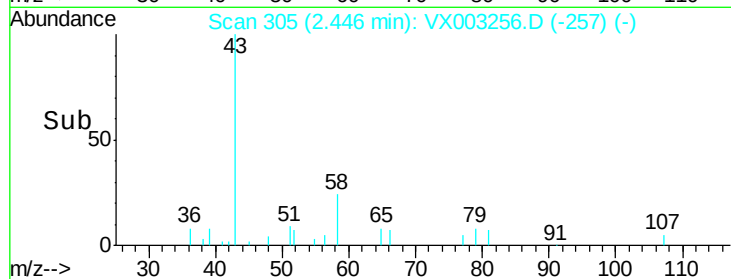
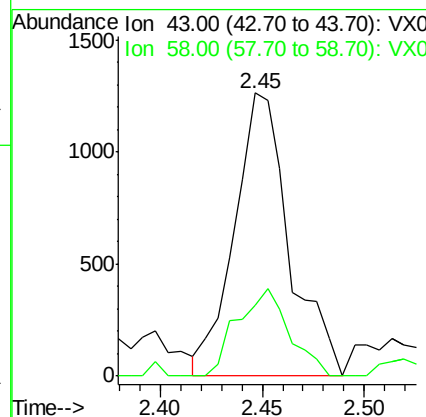
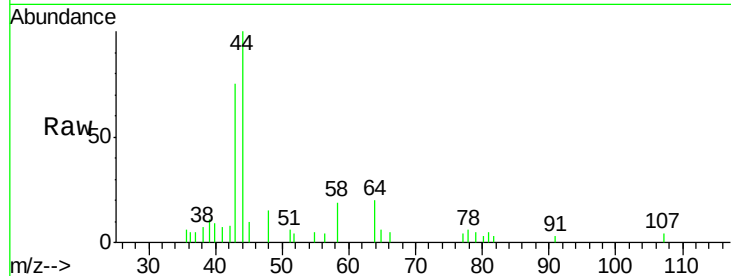
#16
Acetone
Concen: 1.66 ug/l
RT: 2.45 min Scan# 305
Delta R.T. -0.01 min
Lab File: VX003256.D
Acq: 09 Jul 2018 20:57

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT3-2018

Tot Ion: 43 Resp: 2364
Ion Ratio Lower Upper
43 100
58 25.3 22.1 33.1

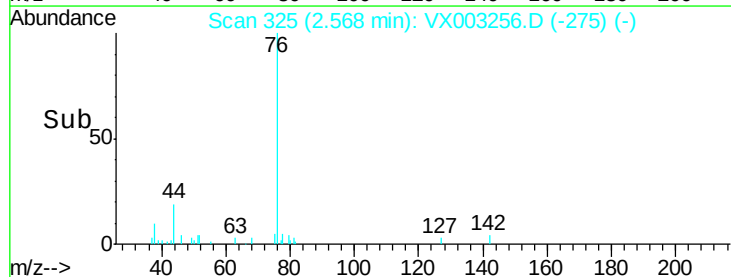
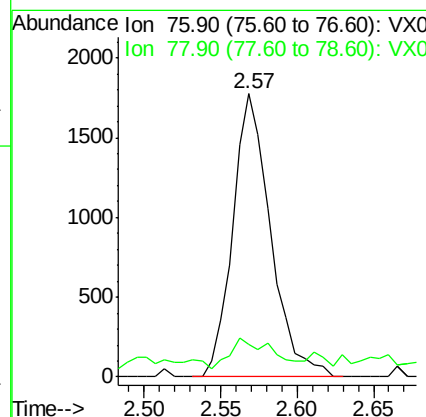
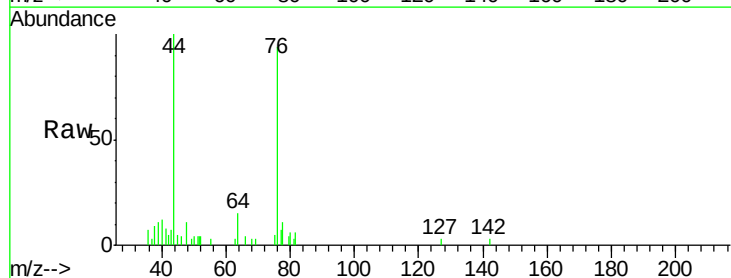
Manual Integrations
APPROVED

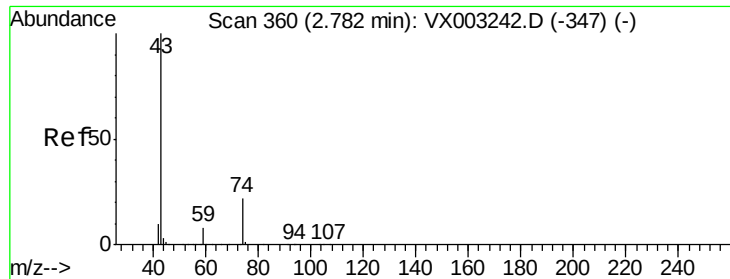
MMDadoda
7/10/2018 3:11:52 PM



#17
Carbon Disulfide
Concen: 0.38 ug/l
RT: 2.57 min Scan# 325
Delta R.T. 0.01 min
Lab File: VX003256.D
Acq: 09 Jul 2018 20:57

Tgt Ion: 76 Resp: 3046
Ion Ratio Lower Upper
76 100
78 5.7 6.9 10.3#





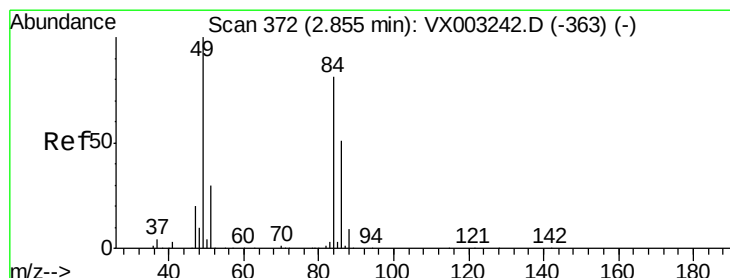
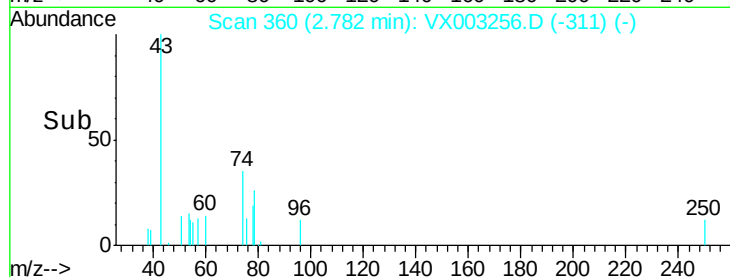
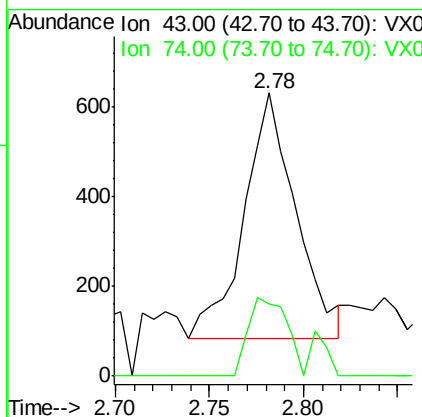
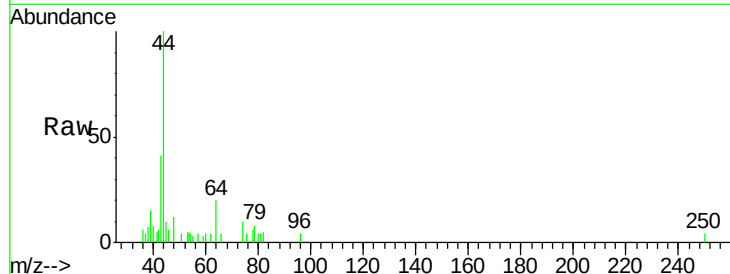
#18
Methvl Acetate
Concen: 0.26 ug/l
RT: 2.78 min Scan# 360
Delta R.T. -0.00 min
Lab File: VX003256.D
Acq: 09 Jul 2018 20:57

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT3-2018

Tot Ion: 43 Resp: 1040
Ion Ratio Lower Upper
43 100
74 23.8 16.7 25.1

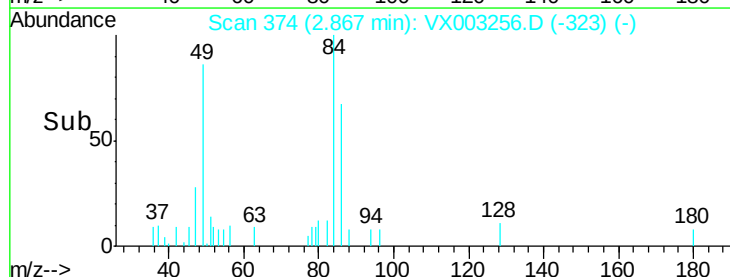
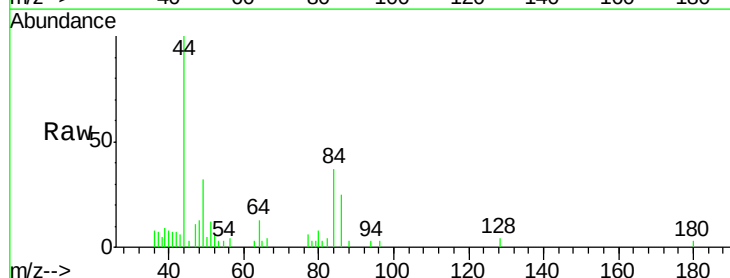
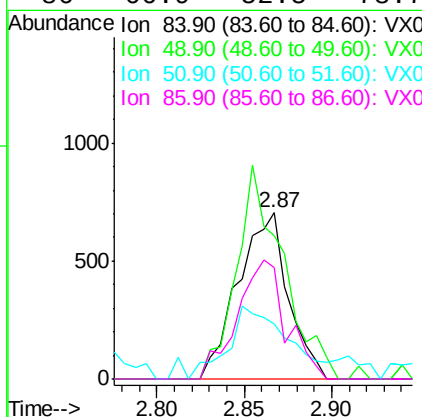
Manual Integrations
APPROVED

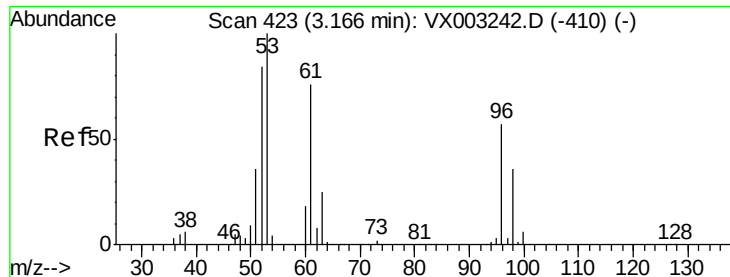
MMDadoda
7/10/2018 3:11:52 PM



#20
Methylene Chloride
Concen: Below Cal
RT: 2.87 min Scan# 374
Delta R.T. 0.01 min
Lab File: VX003256.D
Acq: 09 Jul 2018 20:57

Tgt Ion: 84 Resp: 1405
Ion Ratio Lower Upper
84 100
49 86.4 107.8 161.6#
51 33.2 32.8 49.2
86 66.9 52.5 78.7





#21

trans-1,2-Dichloroethene

Concen: 0.29 ug/l

RT: 3.17 min Scan# 423

Delta R.T. 0.01 min

Lab File: VX003256.D

Acq: 09 Jul 2018 20:57

Instrument :

MSVOA_X

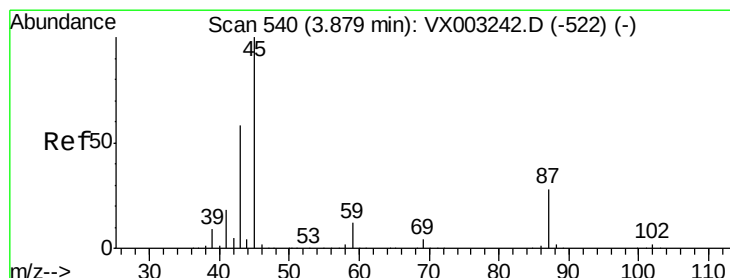
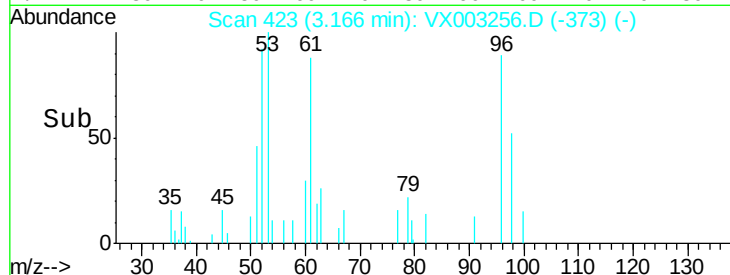
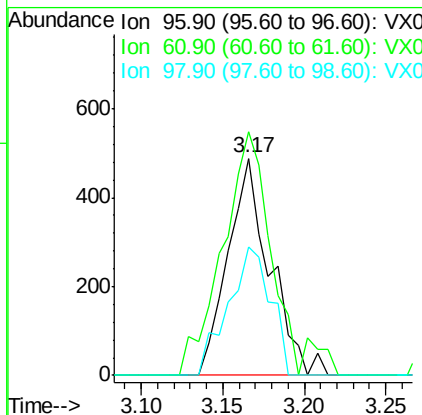
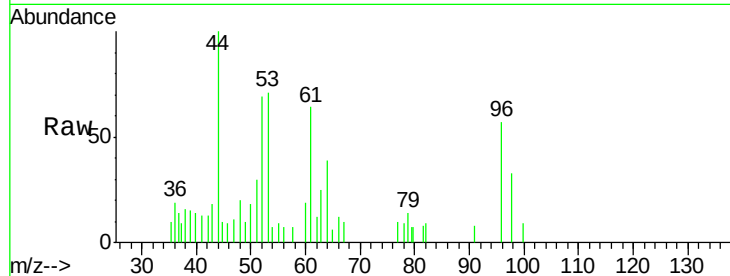
ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion:	96	Resp:	875
Ion	Ratio	Lower	Upper
96	100		
61	112.1	117.0	175.4#
98	58.9	52.4	78.6

Manual Integrations
APPROVED

MMDadoda
7/10/2018 3:11:52 PM



#22

Diisopropyl ether

Concen: 0.22 ug/l

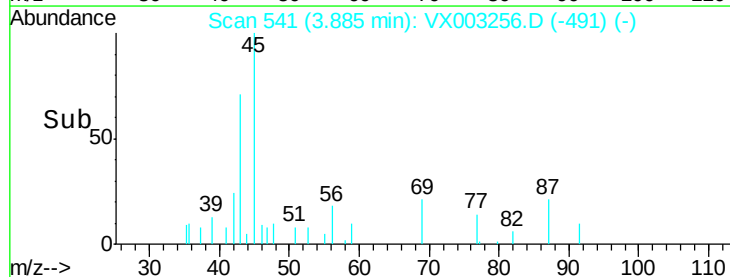
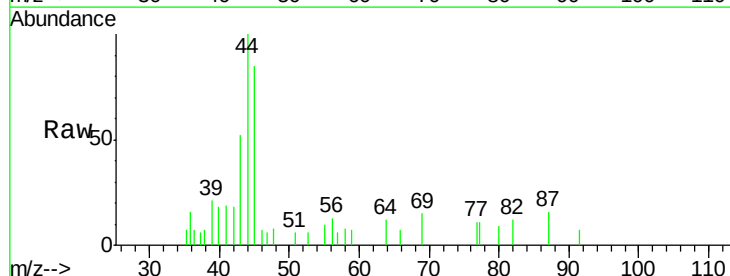
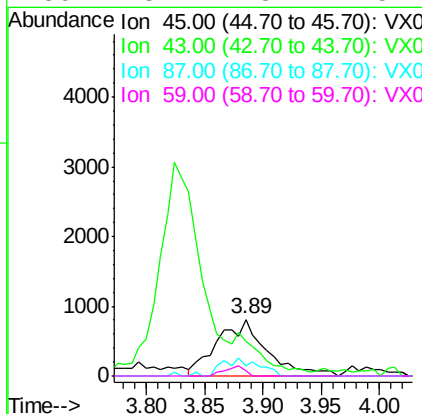
RT: 3.89 min Scan# 541

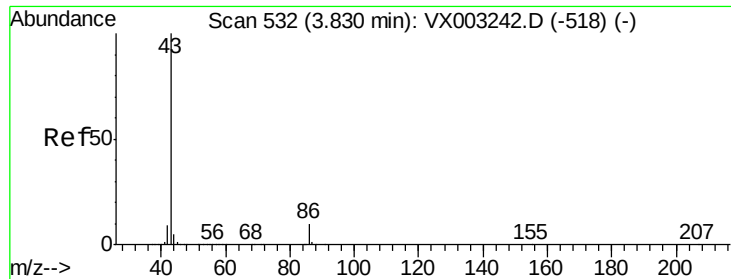
Delta R.T. 0.01 min

Lab File: VX003256.D

Acq: 09 Jul 2018 20:57

Tgt Ion:	45	Resp:	2383
Ion	Ratio	Lower	Upper
45	100		
43	52.2	46.8	70.2
87	18.2	20.2	30.4#
59	8.4	8.7	13.1#





#23

Vinyl Acetate

Concen: 0.72 ug/l

RT: 3.82 min Scan# 531

Delta R.T. -0.01 min

Lab File: VX003256.D

Acq: 09 Jul 2018 20:57

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion: 43 Resp: 6636

Ion Ratio Lower Upper

43 100

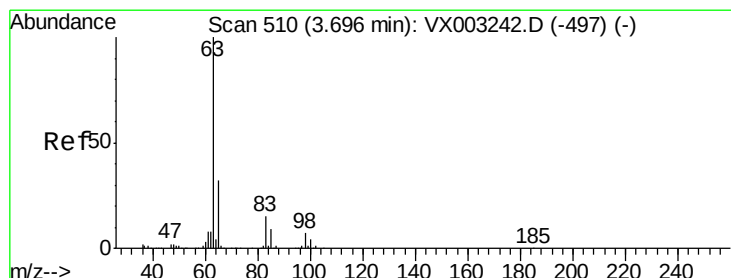
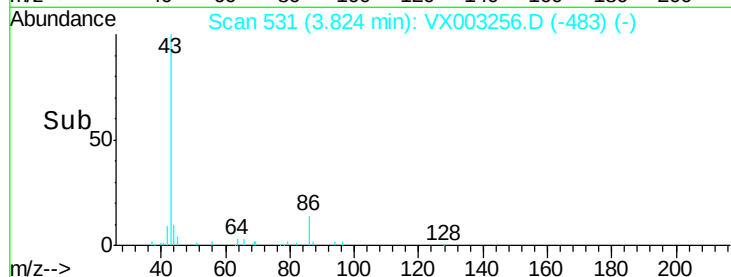
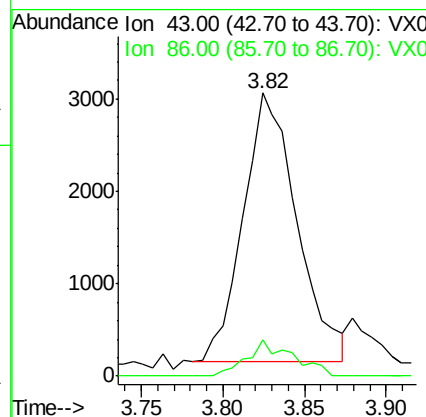
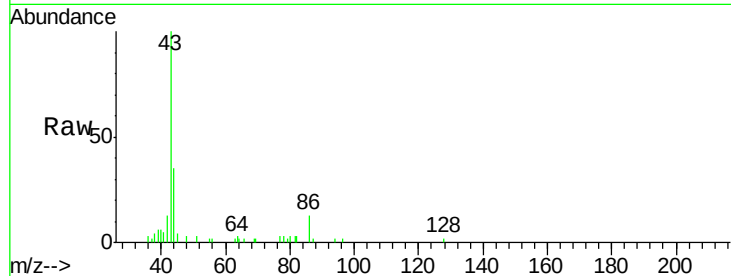
86 13.4 7.4 11.0#

Manual Integrations

APPROVED

MMDadoda

7/10/2018 3:11:52 PM



#24

1,1-Dichloroethane

Concen: 0.25 ug/l

RT: 3.70 min Scan# 511

Delta R.T. 0.01 min

Lab File: VX003256.D

Acq: 09 Jul 2018 20:57

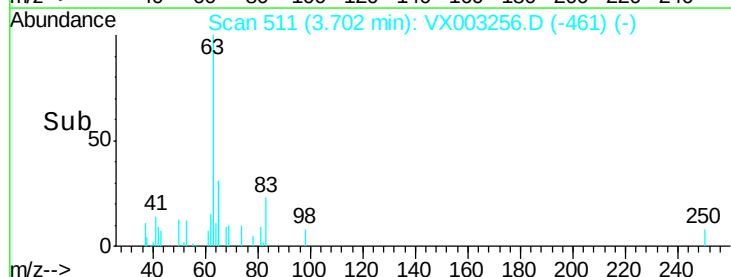
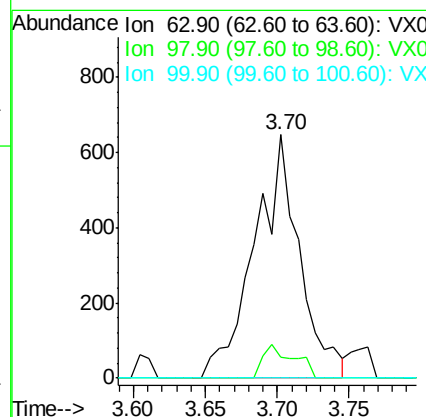
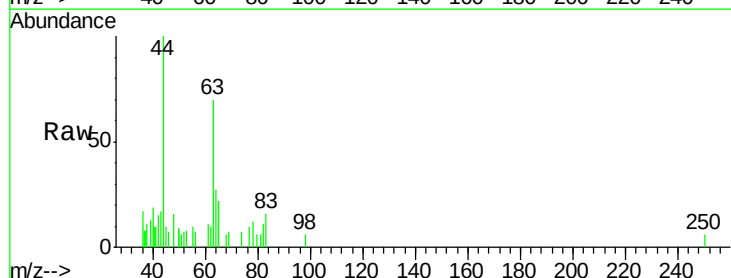
Tgt Ion: 63 Resp: 1409

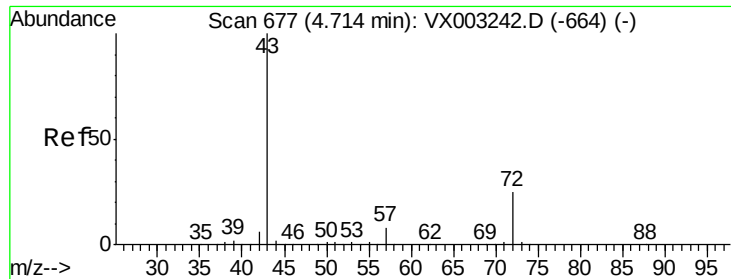
Ion Ratio Lower Upper

63 100

98 8.5 3.4 10.2

100 0.0 2.0 6.0#





#25

2-Butanone

Concen: 1.00 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX003256.D

Acq: 09 Jul 2018 20:57

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion: 43 Resp: 2516

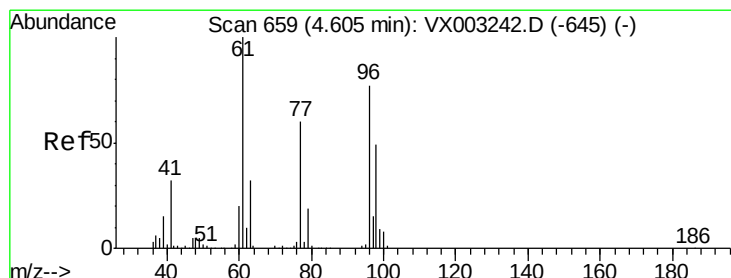
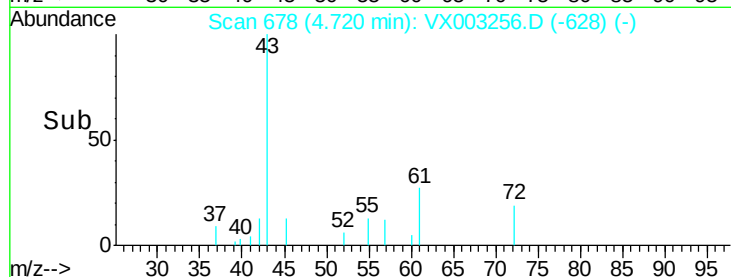
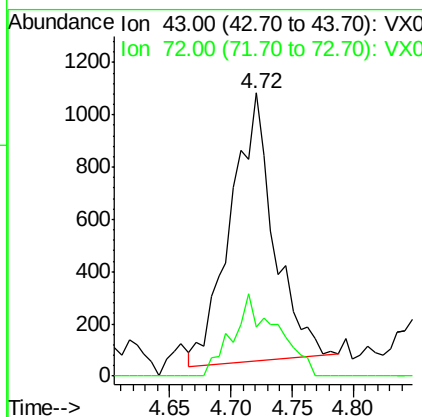
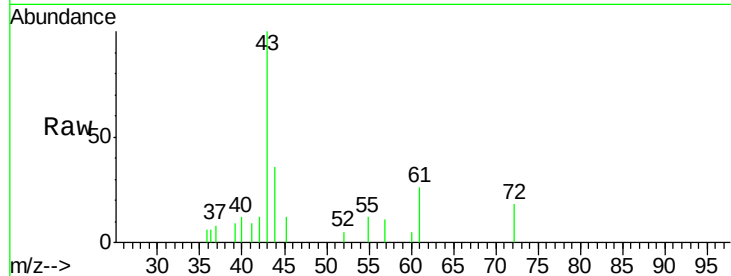
Ion Ratio Lower Upper

43 100

72 19.1 18.5 27.7

Manual Integrations
APPROVED

MMDadoda
7/10/2018 3:11:52 PM



#27

cis-1,2-Dichloroethene

Concen: 0.26 ug/l

RT: 4.60 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX003256.D

Acq: 09 Jul 2018 20:57

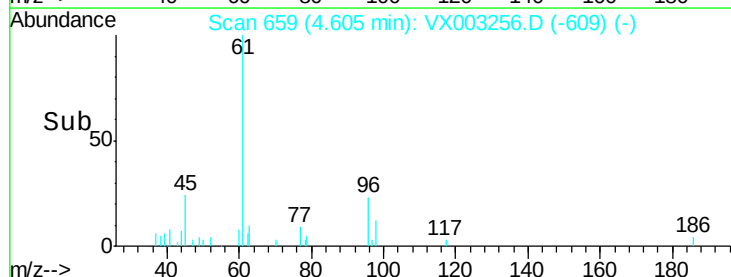
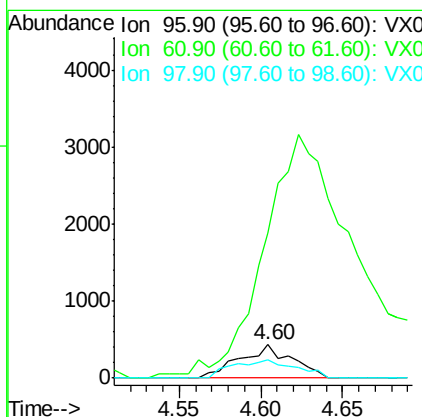
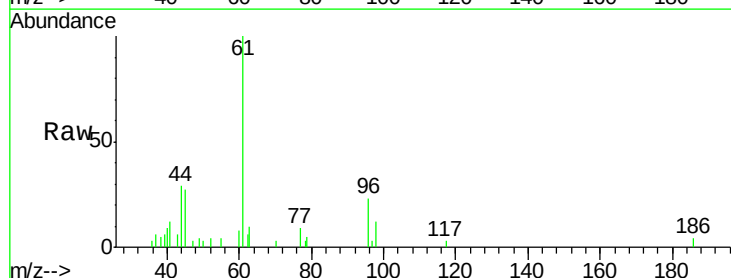
Tgt Ion: 96 Resp: 960

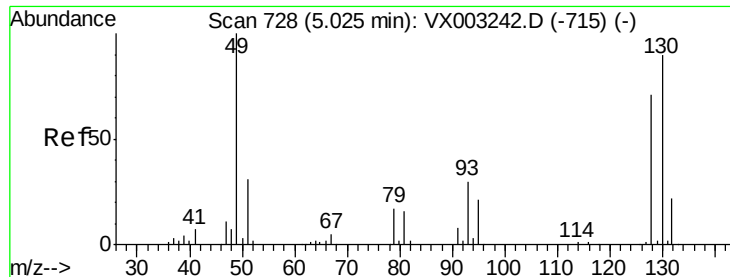
Ion Ratio Lower Upper

96 100

61 1371.3 0.0 330.2#

98 65.7 0.0 130.2





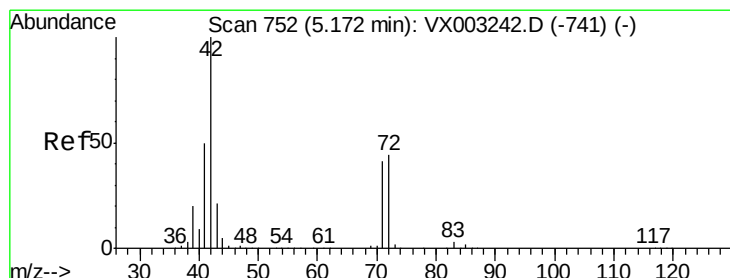
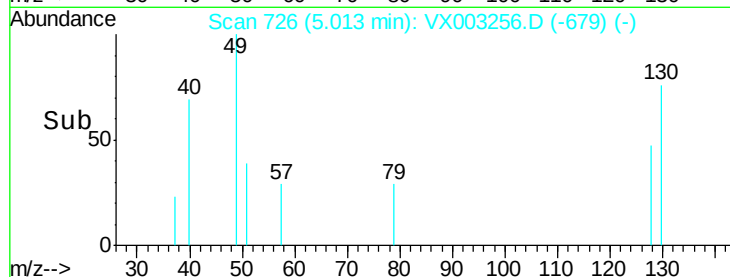
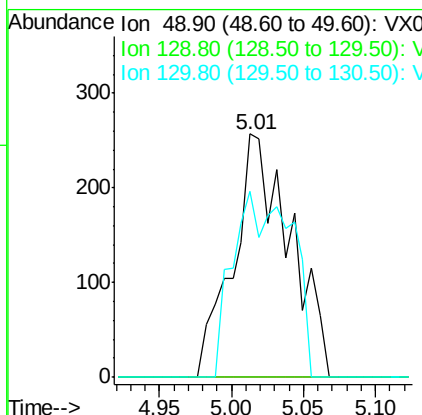
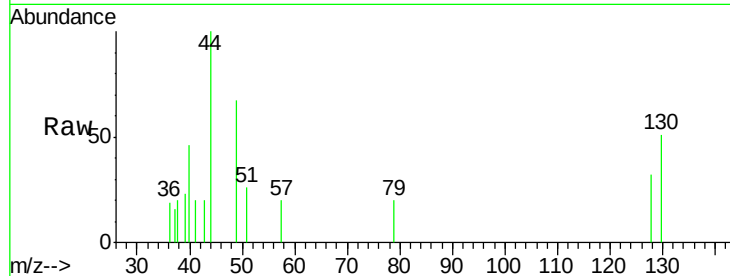
#28
Bromochloromethane
Concen: 0.25 ug/l
RT: 5.01 min Scan# 726
Delta R.T. -0.01 min
Lab File: VX003256.D
Acq: 09 Jul 2018 20:57

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT3-2018

Tot Ion: 49 Resp: 704
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.2
130 38.2 61.2 91.8#

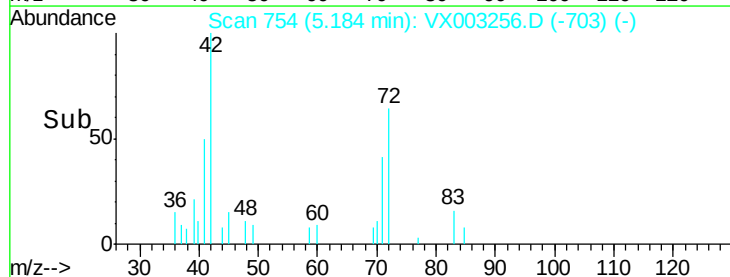
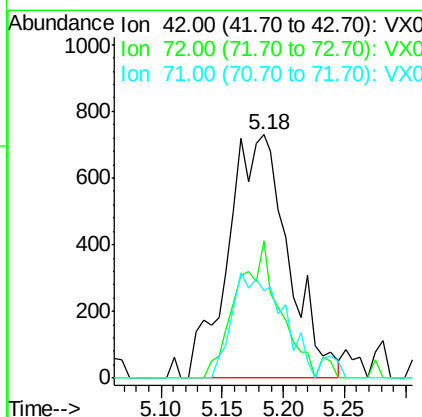
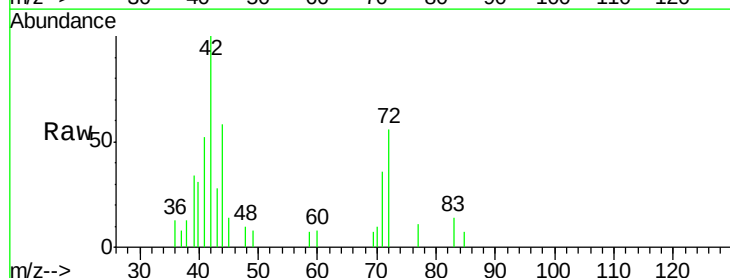
Manual Integrations
APPROVED

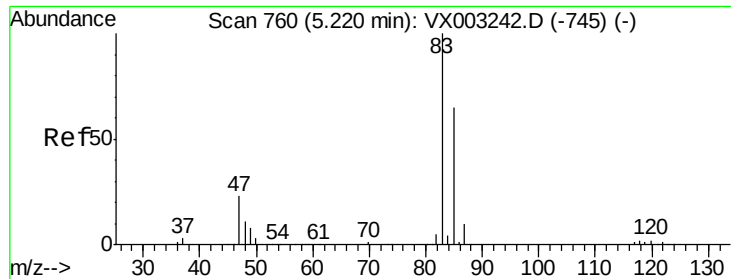
MMDadoda
7/10/2018 3:11:52 PM



#29
Tetrahydrofuran
Concen: 1.53 ug/l
RT: 5.18 min Scan# 754
Delta R.T. 0.01 min
Lab File: VX003256.D
Acq: 09 Jul 2018 20:57

Tgt Ion: 42 Resp: 2501
Ion Ratio Lower Upper
42 100
72 39.8 32.0 48.0
71 36.1 30.1 45.1





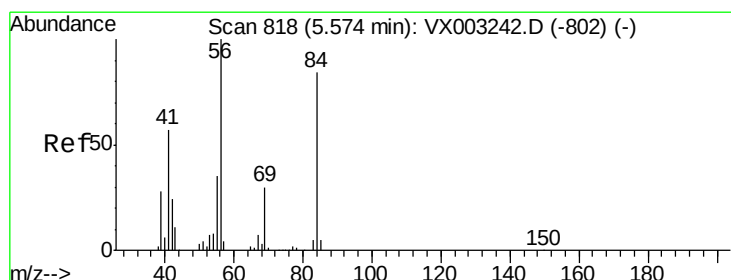
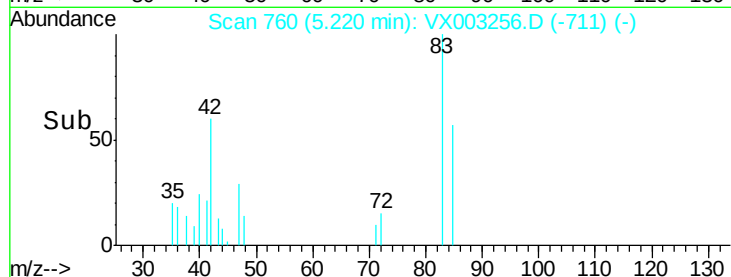
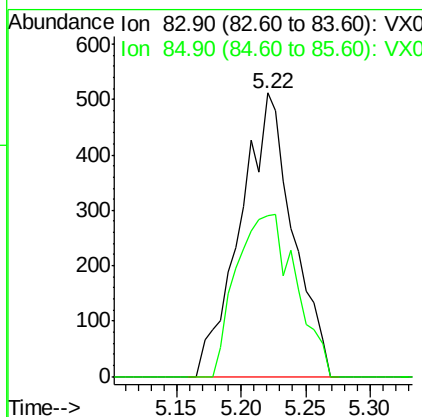
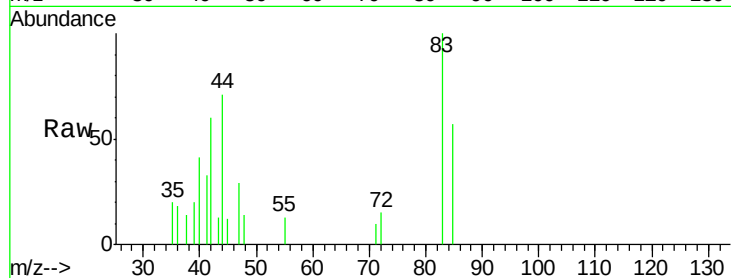
#30
Chloroform
Concen: 0.23 ug/l
RT: 5.22 min Scan# 760
Delta R.T. -0.00 min
Lab File: VX003256.D
Acq: 09 Jul 2018 20:57

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT3-2018

Tot Ion: 83 Resp: 1451
Ion Ratio Lower Upper
83 100
85 56.8 50.4 75.6

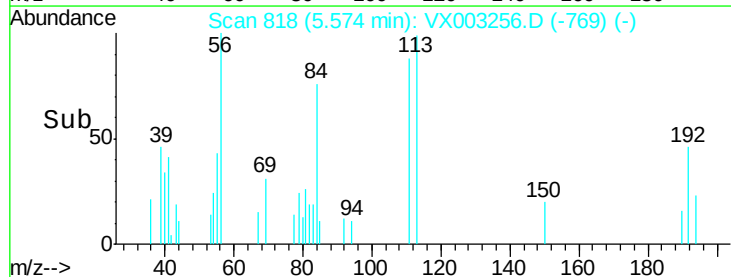
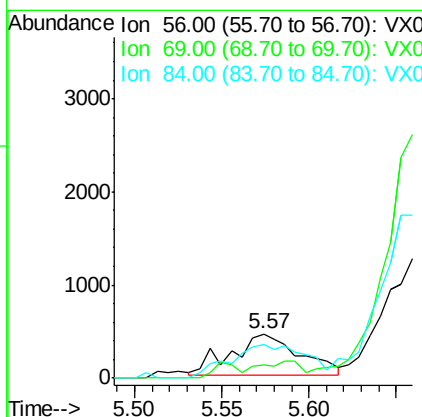
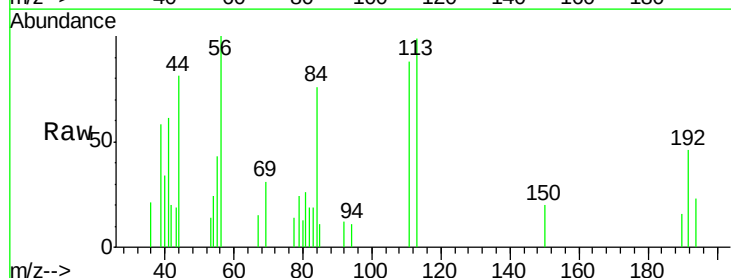
Manual Integrations
APPROVED

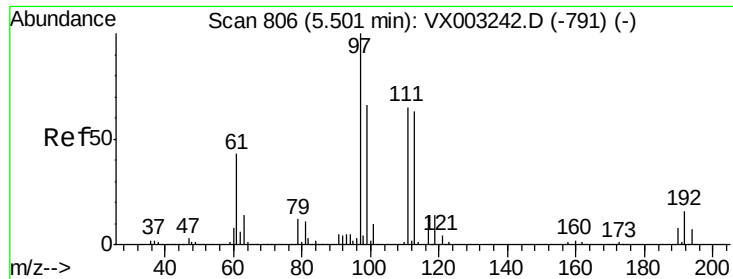
MMDadoda
7/10/2018 3:11:52 PM



#31
Cyclohexane
Concen: 0.23 ug/l m
RT: 5.57 min Scan# 818
Delta R.T. -0.00 min
Lab File: VX003256.D
Acq: 09 Jul 2018 20:57

Tgt Ion: 56 Resp: 1196
Ion Ratio Lower Upper
56 100
69 31.2 23.7 35.5
84 76.4 64.1 96.1





#32

1,1,1-Trichloroethane

Concen: 0.22 ug/l

RT: 5.50 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX003256.D

Acq: 09 Jul 2018 20:57

Instrument :

MSVOA_X

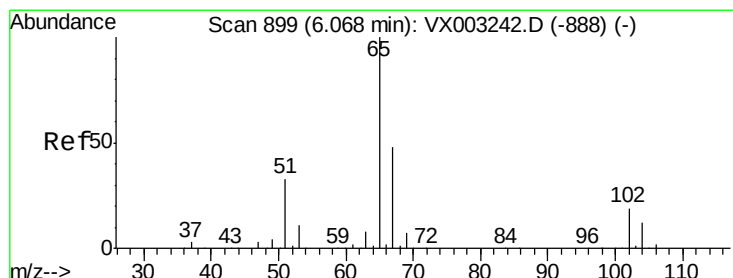
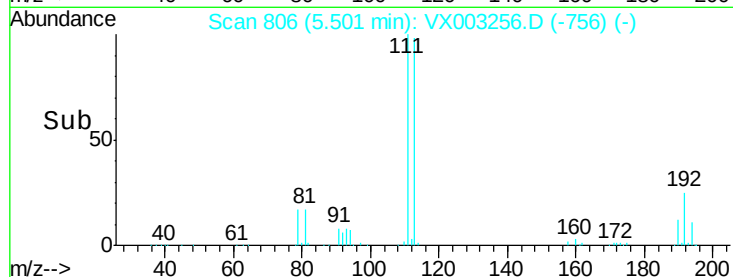
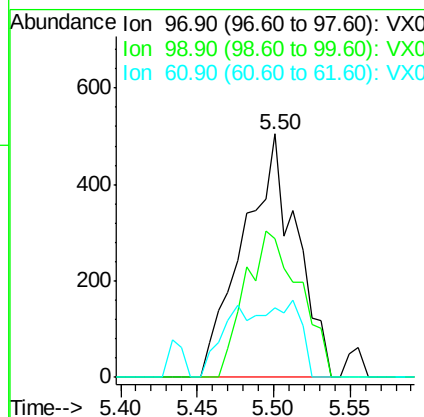
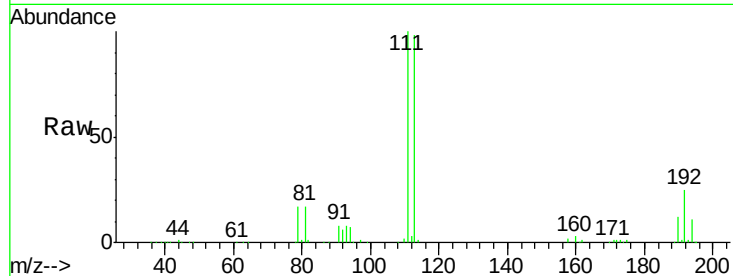
ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.6	77.4#
61	0.0	36.4	54.6#

Manual Integrations
APPROVED

MMDadoda
7/10/2018 3:11:52 PM



#33

1,2-Dichloroethane-d4

Concen: 52.14 ug/l

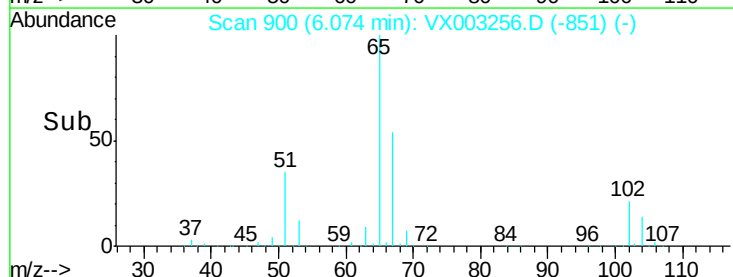
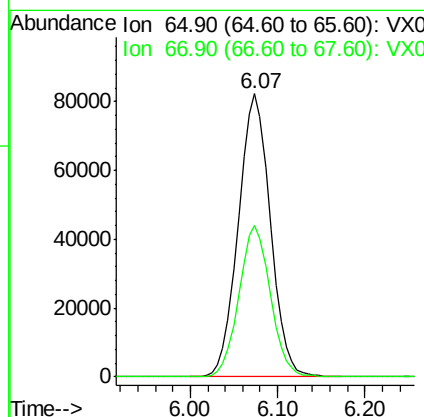
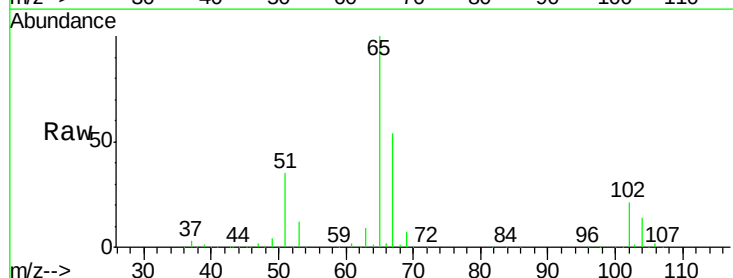
RT: 6.07 min Scan# 900

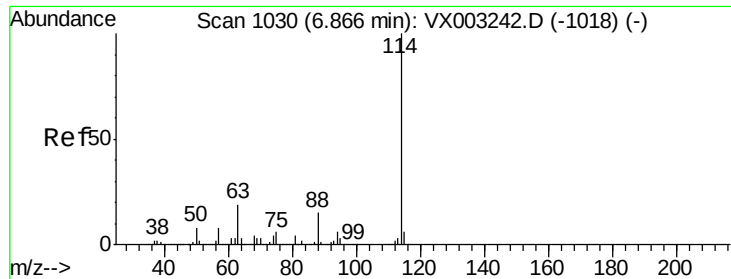
Delta R.T. -0.00 min

Lab File: VX003256.D

Acq: 09 Jul 2018 20:57

Tgt Ion	Ratio	Lower	Upper
65	100		
67	52.9	0.0	102.6





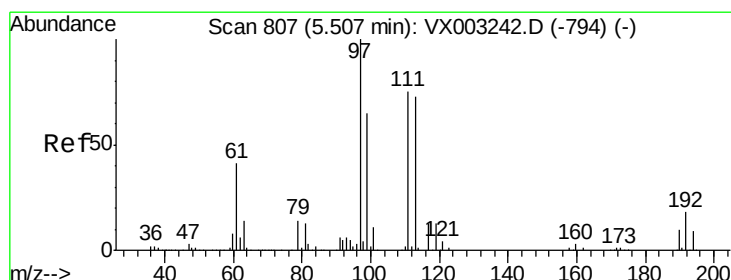
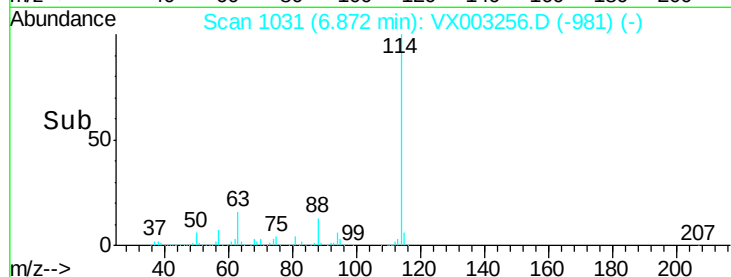
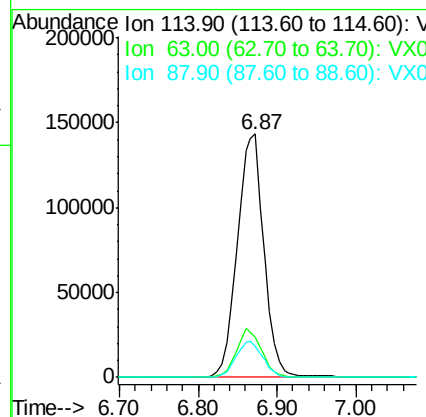
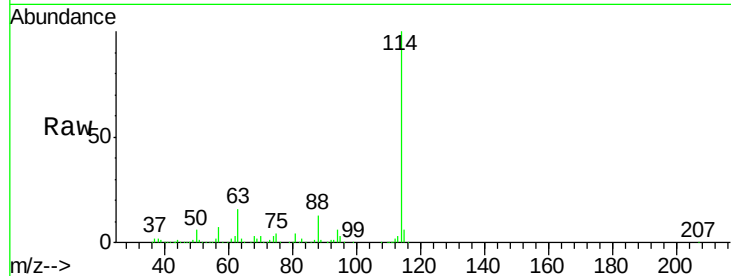
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1031
 Delta R.T. 0.01 min
 Lab File: VX003256.D
 Acq: 09 Jul 2018 20:57

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT3-2018

Tot Ion	Ratio	Resp Lower	Upper
114	100		
63	16.2	0.0	41.4
88	12.6	0.0	30.0

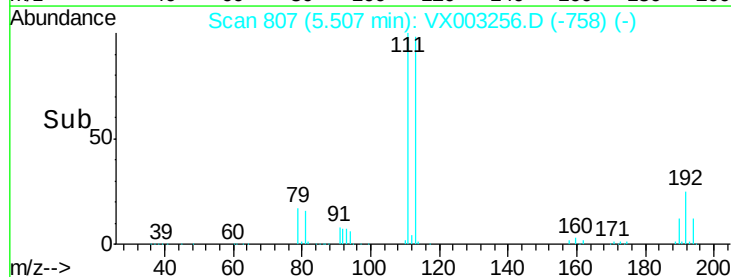
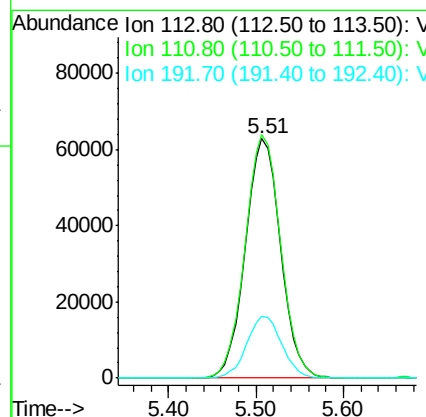
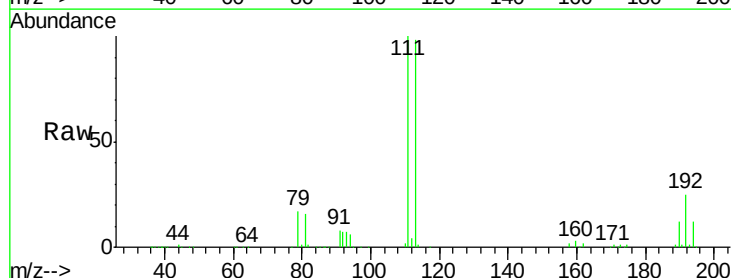
Manual Integrations
 APPROVED

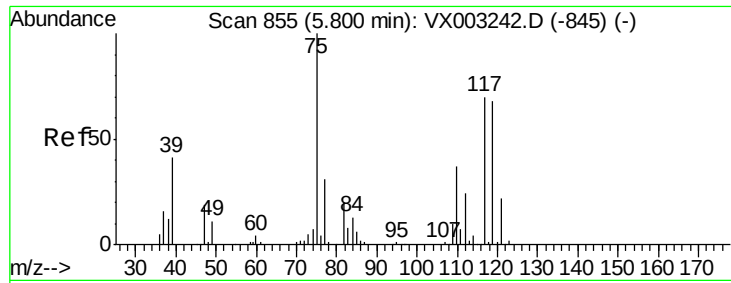
MMDadoda
 7/10/2018 3:11:52 PM



#35
 Dibromofluoromethane
 Concen: 48.99 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. -0.00 min
 Lab File: VX003256.D
 Acq: 09 Jul 2018 20:57

Tgt Ion	Ratio	Resp Lower	Upper
113	100		
111	102.5	81.4	122.0
192	25.9	19.1	28.7





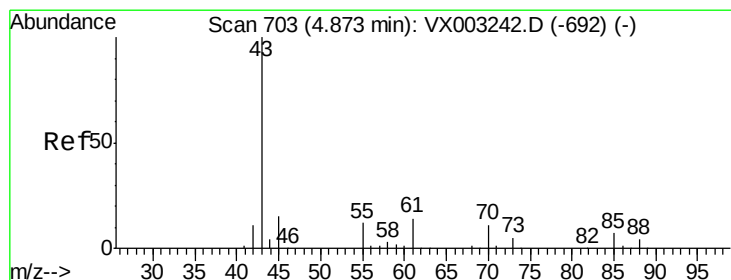
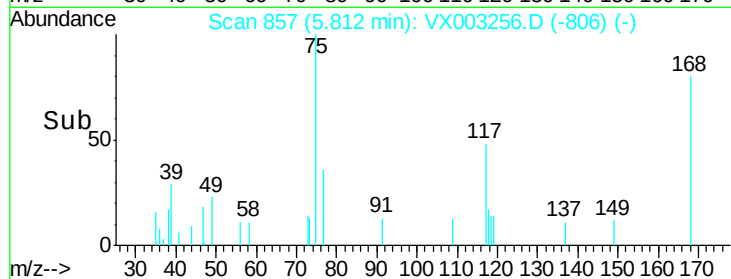
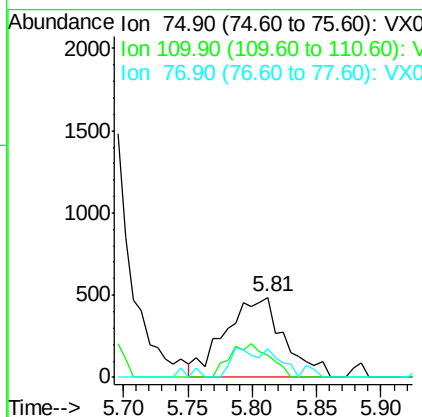
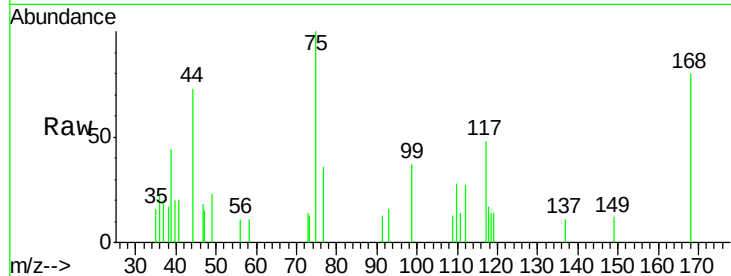
#36
 1,1-Dichloropropene
 Concen: 0.32 ug/l
 RT: 5.81 min Scan# 857
 Delta R.T. 0.01 min
 Lab File: VX003256.D
 Acq: 09 Jul 2018 20:57

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
75	100		
110	29.0	18.1	54.4
77	0.0	24.3	36.5#

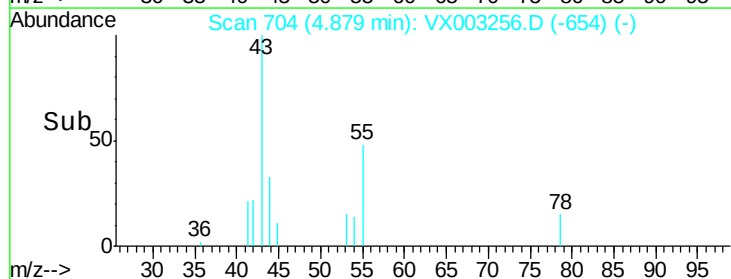
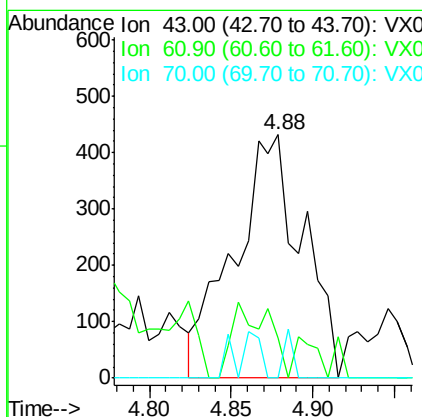
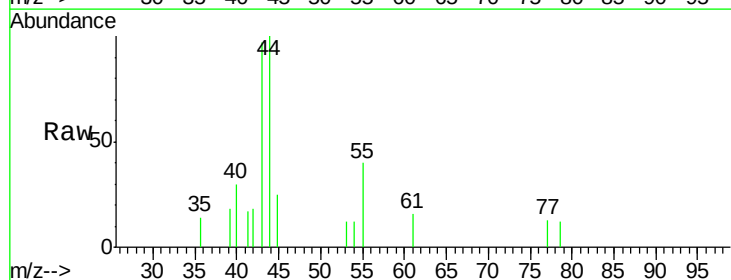
Manual Integrations
 APPROVED

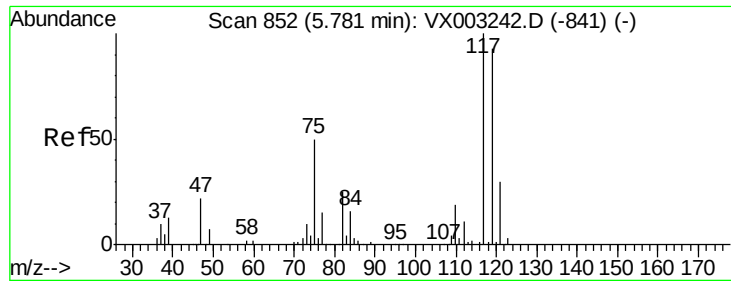
MMDadoda
 7/10/2018 3:11:52 PM



#37
 Ethyl Acetate
 Concen: 0.24 ug/l
 RT: 4.88 min Scan# 704
 Delta R.T. 0.01 min
 Lab File: VX003256.D
 Acq: 09 Jul 2018 20:57

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.4	15.6#
70	2.5	7.6	11.4#





#38

Carbon Tetrachloride

Concen: 0.25 ug/l

RT: 5.79 min Scan# 853

Delta R.T. 0.01 min

Lab File: VX003256.D

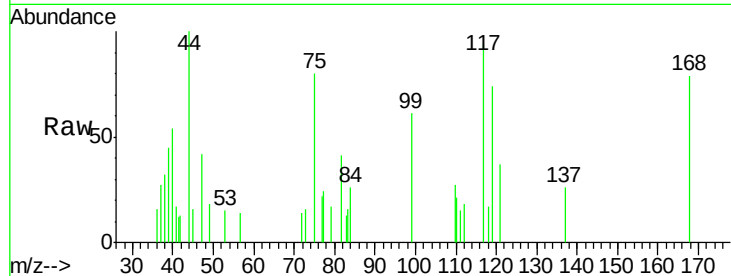
Acq: 09 Jul 2018 20:57

Instrument :

MSVOA_X

ClientSampleId :

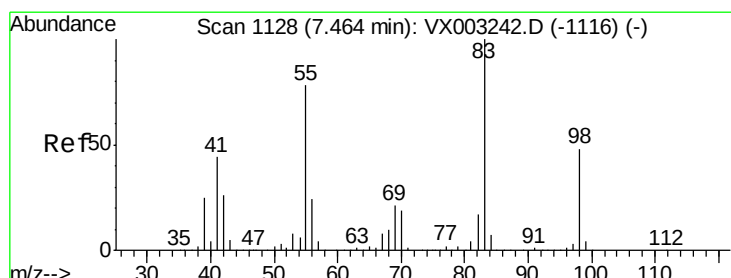
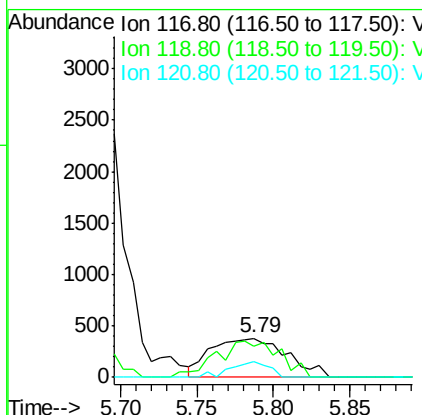
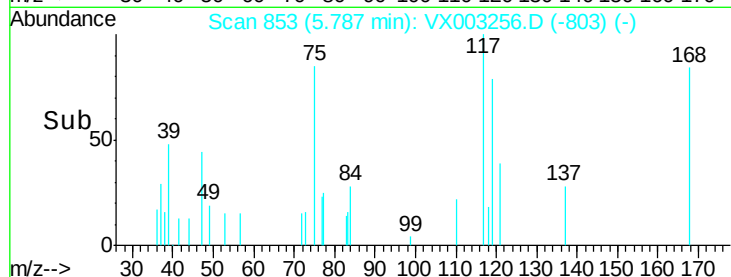
MDL-WATER-03-QT3-2018



Tot Ion:	117	Resp:	1310
Ion	Ratio	Lower	Upper
117	100		
119	79.1	77.4	116.0
121	39.3	24.4	36.6#

Manual Integrations
APPROVED

MMDadoda
7/10/2018 3:11:52 PM



#39

Methylcyclohexane

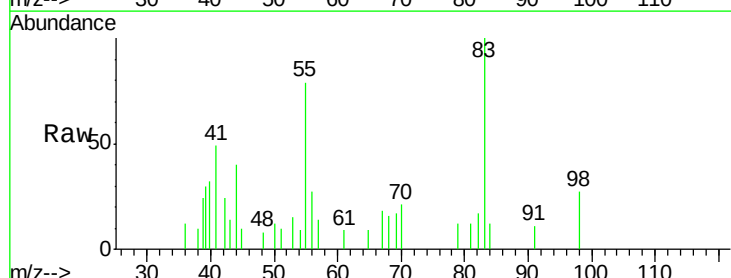
Concen: 0.28 ug/l

RT: 7.47 min Scan# 1129

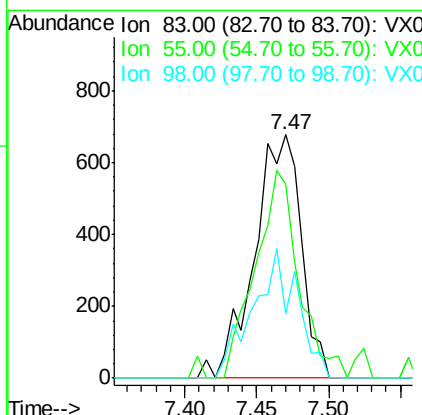
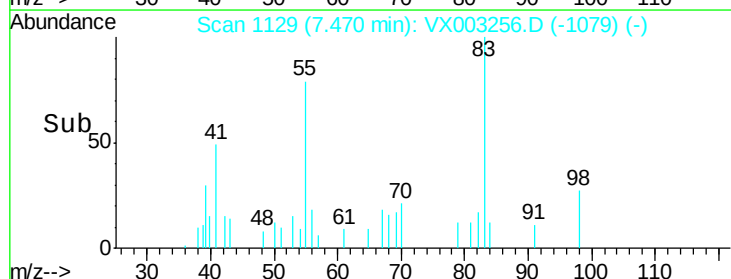
Delta R.T. 0.01 min

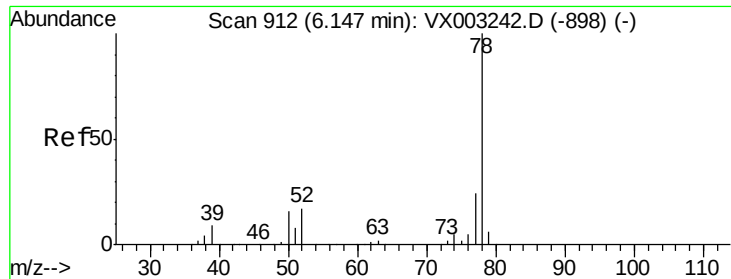
Lab File: VX003256.D

Acq: 09 Jul 2018 20:57



Tgt Ion:	83	Resp:	1538
Ion	Ratio	Lower	Upper
83	100		
55	79.5	65.4	98.0
98	26.7	37.4	56.0#





#40

Benzene

Concen: 0.20 ug/l

RT: 6.15 min Scan# 912

Delta R.T. -0.00 min

Lab File: VX003256.D

Acq: 09 Jul 2018 20:57

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion: 78 Resp: 2836

Ion Ratio Lower Upper

78 100

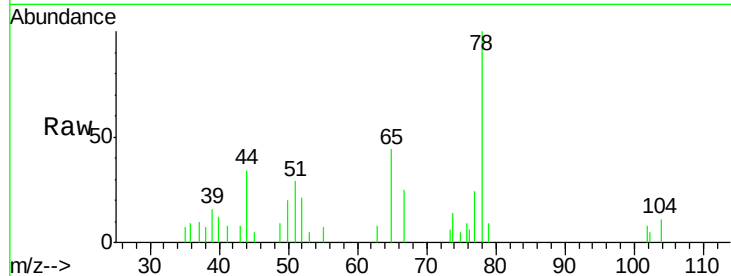
77 24.1 19.1 28.7

Manual Integrations

APPROVED

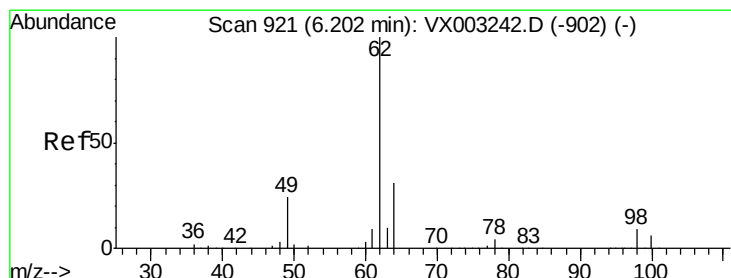
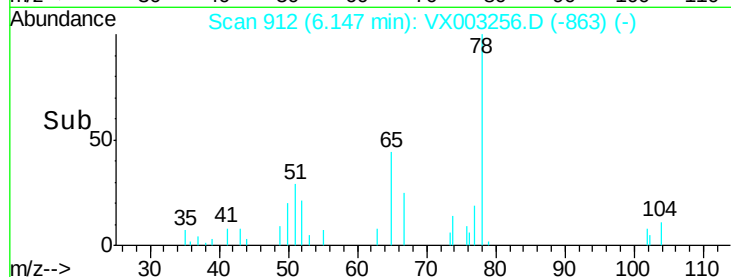
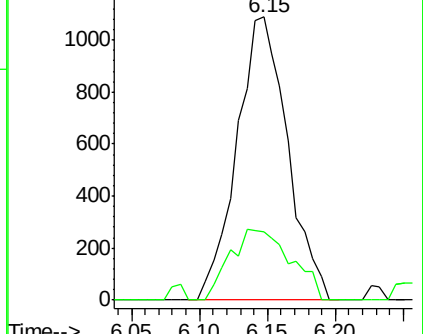
MMDadoda

7/10/2018 3:11:52 PM



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#42

1,2-Dichloroethane

Concen: 0.21 ug/l

RT: 6.21 min Scan# 922

Delta R.T. 0.01 min

Lab File: VX003256.D

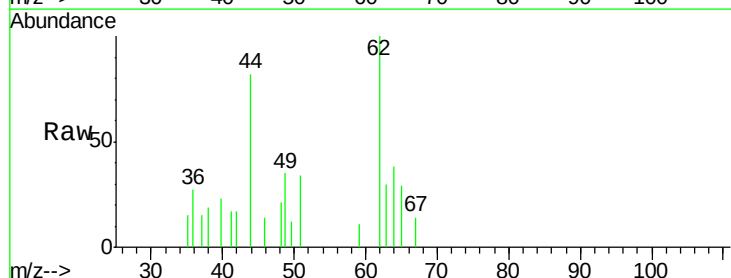
Acq: 09 Jul 2018 20:57

Tgt Ion: 62 Resp: 1078

Ion Ratio Lower Upper

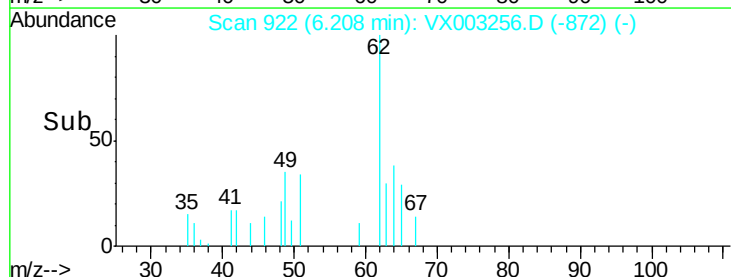
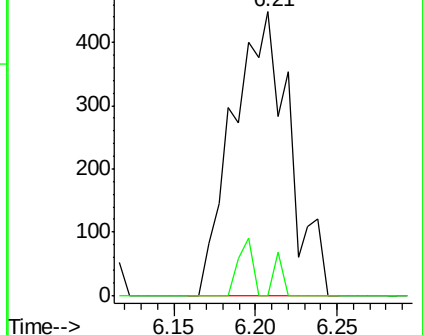
62 100

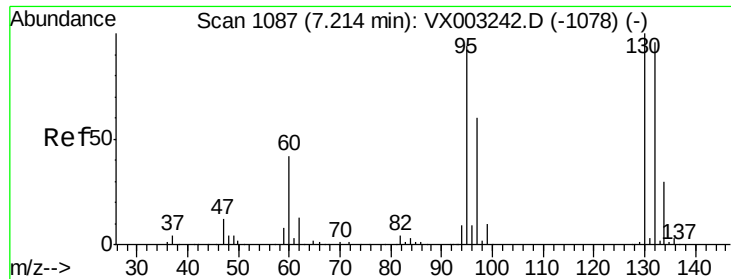
98 2.3 0.0 16.6



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#44

Trichloroethene

Concen: 0.25 ug/l

RT: 7.22 min Scan# 1088

Delta R.T. 0.01 min

Lab File: VX003256.D

Acq: 09 Jul 2018 20:57

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion:130 Resp: 1042

Ion Ratio Lower Upper

130 100

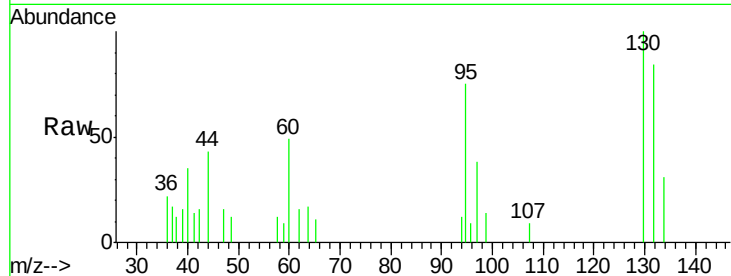
95 75.3 0.0 185.4

Manual Integrations

APPROVED

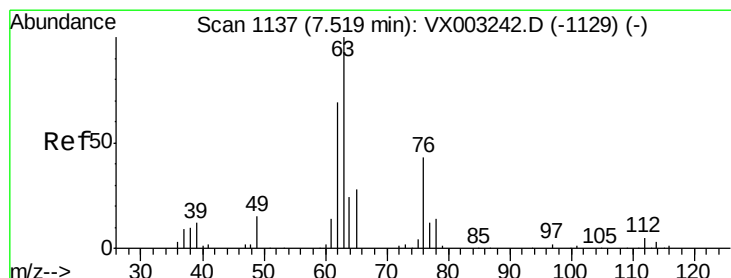
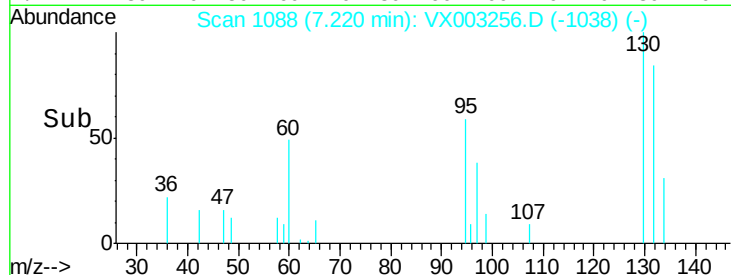
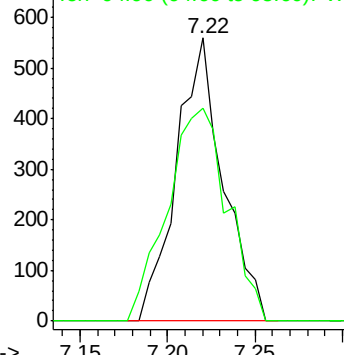
MMDadoda

7/10/2018 3:11:52 PM



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#45

1,2-Dichloropropane

Concen: 0.22 ug/l

RT: 7.52 min Scan# 1138

Delta R.T. 0.01 min

Lab File: VX003256.D

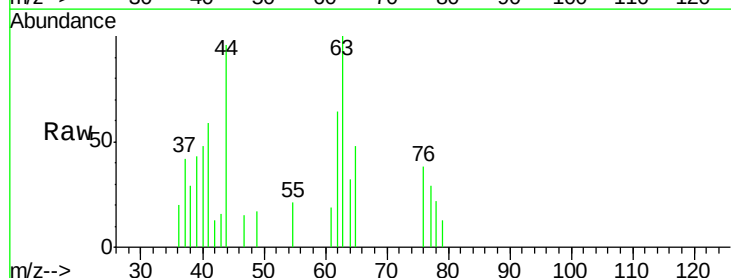
Acq: 09 Jul 2018 20:57

Tgt Ion: 63 Resp: 818

Ion Ratio Lower Upper

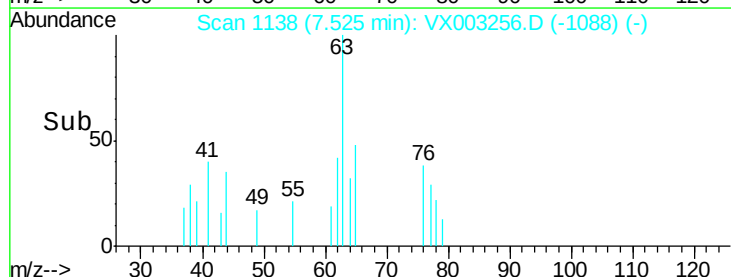
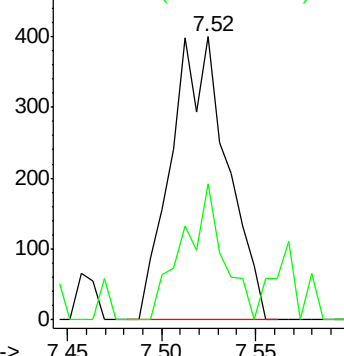
63 100

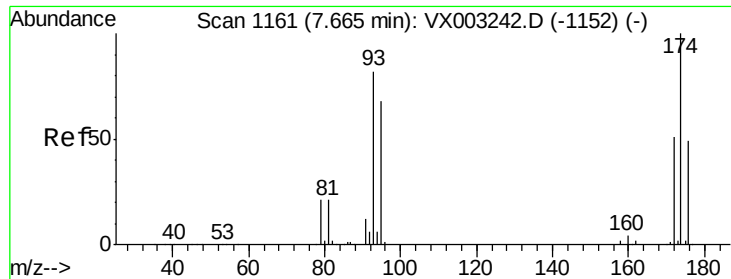
65 48.1 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 64.90 (64.60 to 65.60): VX0





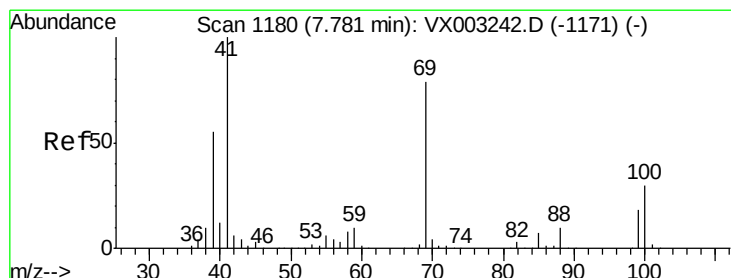
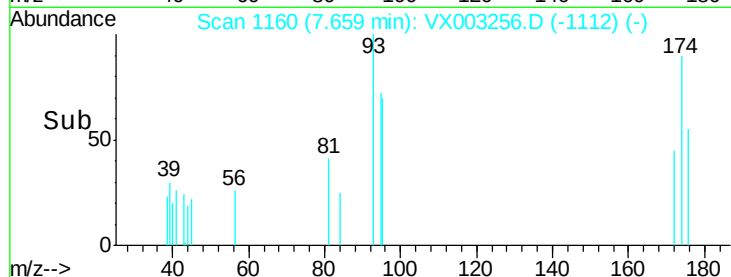
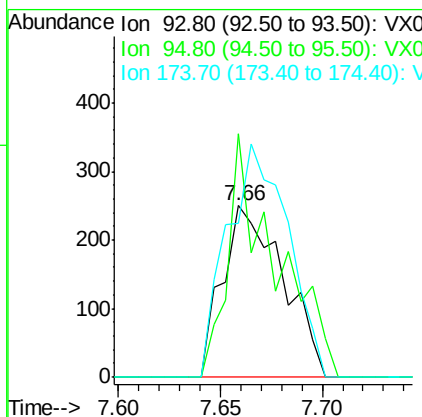
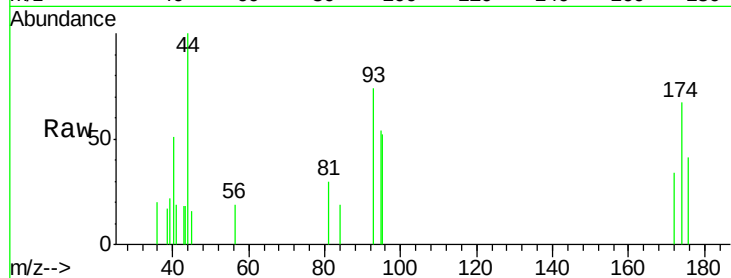
#46
Dibromomethane
Concen: 0.21 ug/l
RT: 7.66 min Scan# 1160
Delta R.T. -0.01 min
Lab File: VX003256.D
Acq: 09 Jul 2018 20:57

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT3-2018

Tot Ion: 93 Resp: 517
Ion Ratio Lower Upper
93 100
95 111.6 65.9 98.9#
174 136.0 92.4 138.6

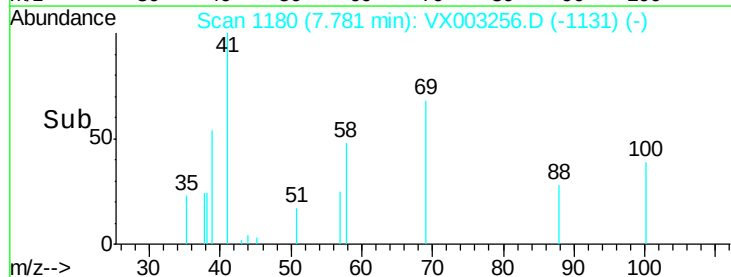
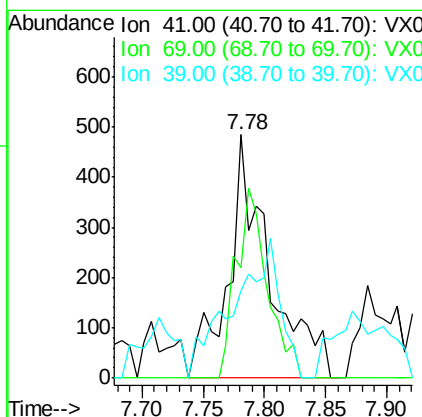
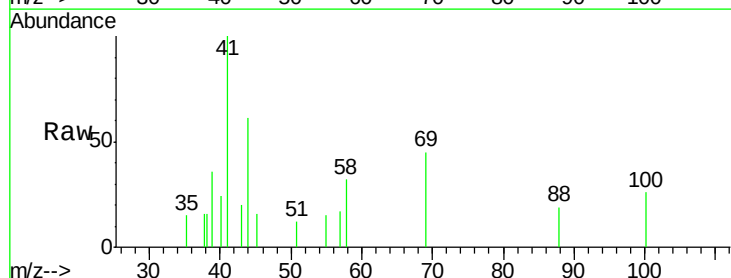
Manual Integrations
APPROVED

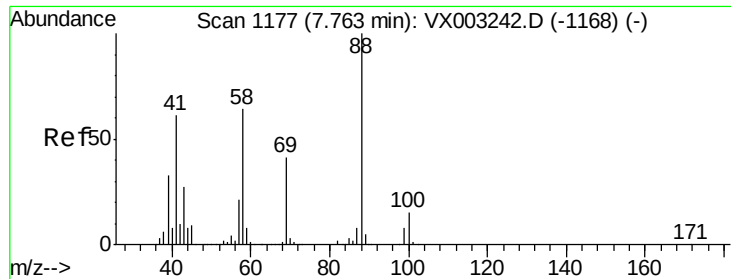
MMDadoda
7/10/2018 3:11:52 PM



#48
Methyl methacrylate
Concen: 0.27 ug/l
RT: 7.78 min Scan# 1180
Delta R.T. -0.00 min
Lab File: VX003256.D
Acq: 09 Jul 2018 20:57

Tgt Ion: 41 Resp: 1128
Ion Ratio Lower Upper
41 100
69 59.0 59.1 88.7#
39 0.0 48.9 73.3#





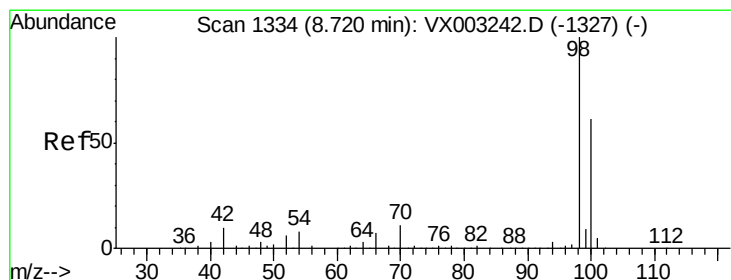
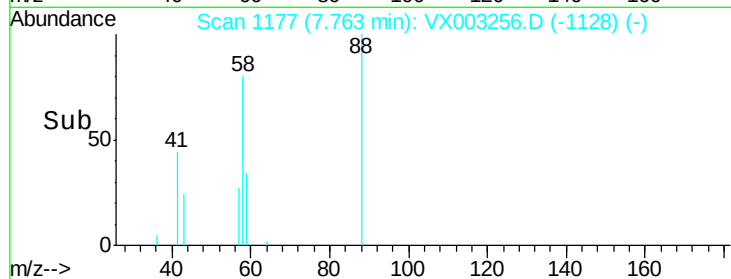
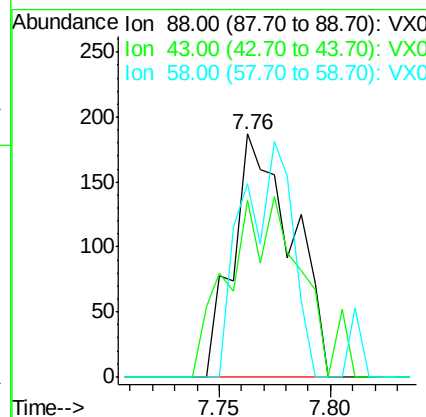
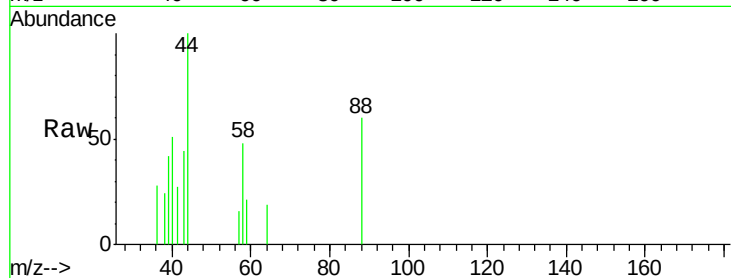
#49
1,4-Dioxane
Concen: 3.94 ug/l
RT: 7.76 min Scan# 1177
Delta R.T. -0.00 min
Lab File: VX003256.D
Acq: 09 Jul 2018 20:57

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
88	100		
43	91.3	29.8	44.6#
58	80.6	57.1	85.7

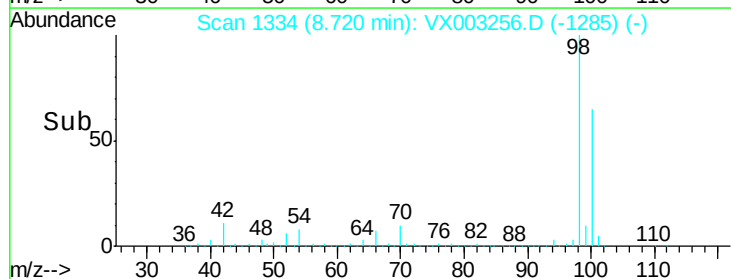
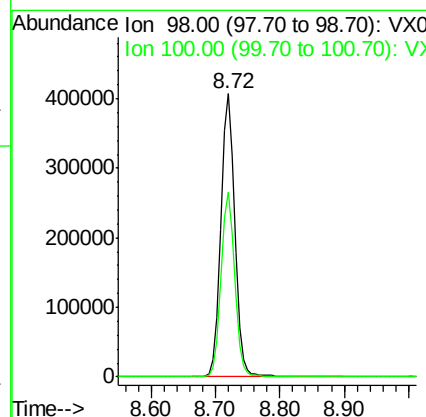
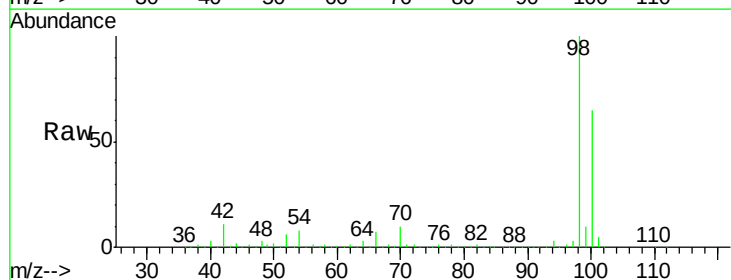
Manual Integrations
APPROVED

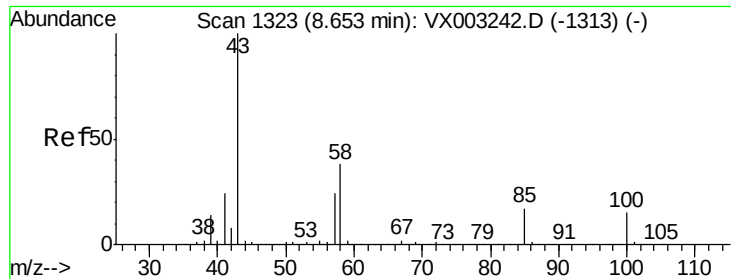
MMDadoda
7/10/2018 3:11:52 PM



#50
Toluene-d8
Concen: 49.23 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX003256.D
Acq: 09 Jul 2018 20:57

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.0	50.9	76.3





#51

4-Methyl-2-Pentanone

Concen: 0.81 ug/l

RT: 8.66 min Scan# 1324

Delta R.T. -0.00 min

Lab File: VX003256.D

Acq: 09 Jul 2018 20:57

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion: 43 Resp: 4097

Ion Ratio Lower Upper

43 100

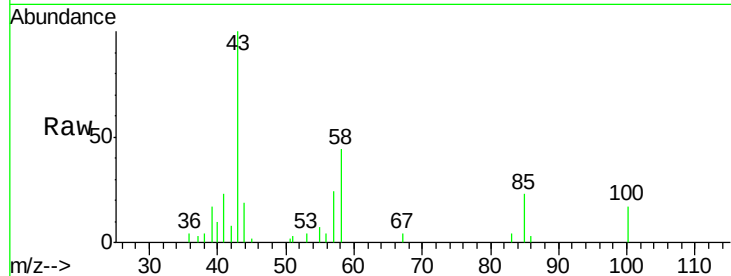
58 38.7 28.6 42.8

Manual Integrations

APPROVED

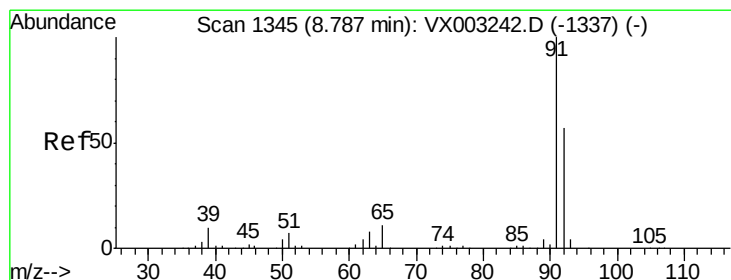
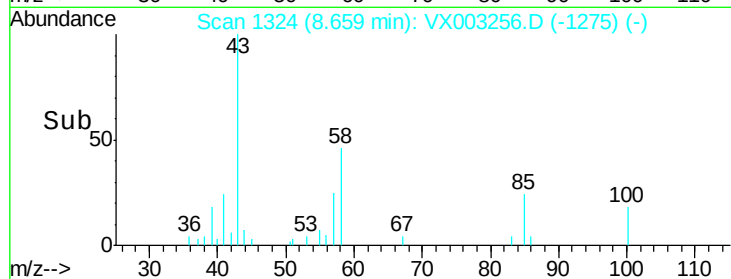
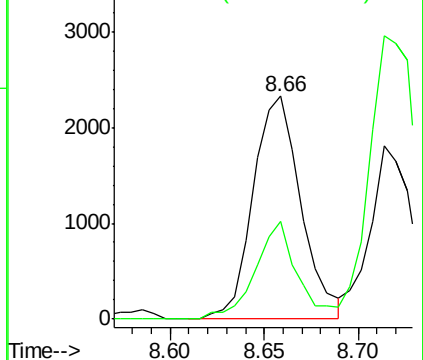
MMDadoda

7/10/2018 3:11:52 PM



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#52

Toluene

Concen: 0.21 ug/l

RT: 8.79 min Scan# 1345

Delta R.T. -0.00 min

Lab File: VX003256.D

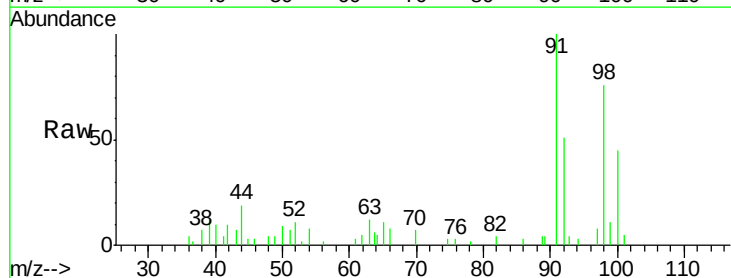
Acq: 09 Jul 2018 20:57

Tgt Ion: 92 Resp: 1895

Ion Ratio Lower Upper

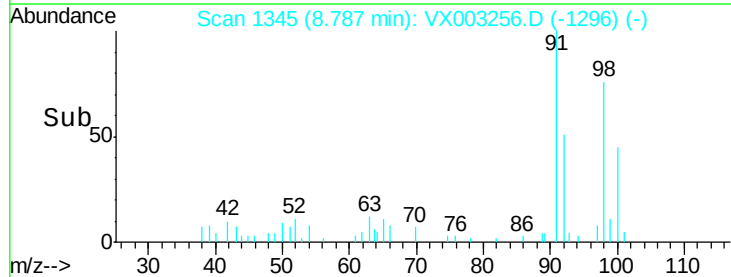
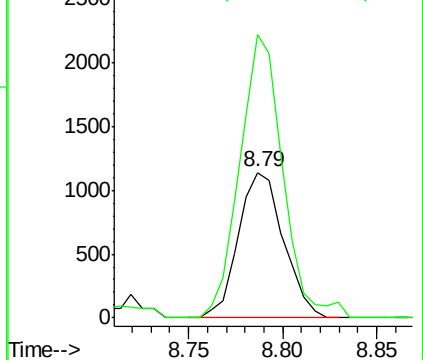
92 100

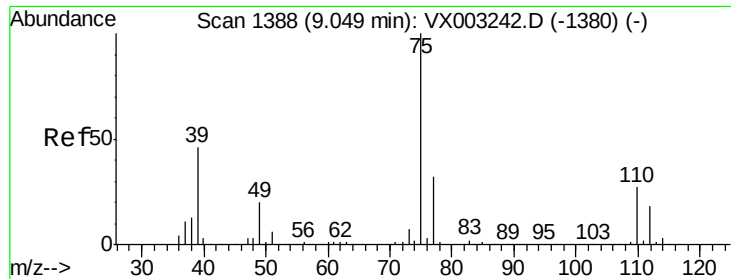
91 185.6 140.4 210.6



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0





#54

cis-1,3-Dichloropropene

Concen: 0.20 ug/l

RT: 9.05 min Scan# 1388

Delta R.T. 0.01 min

Lab File: VX003256.D

Acq: 09 Jul 2018 20:57

Instrument :

MSVOA_X

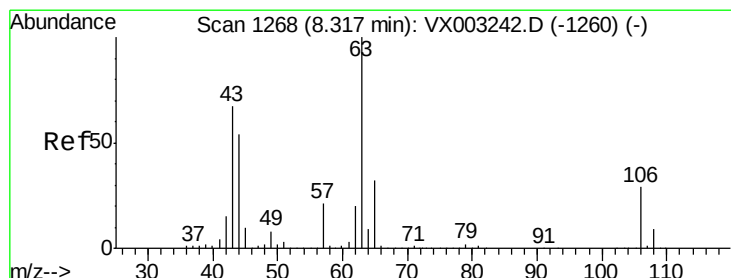
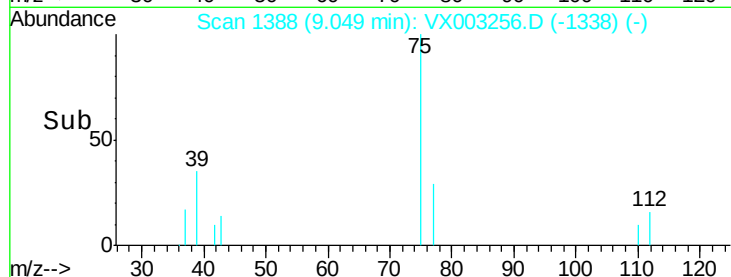
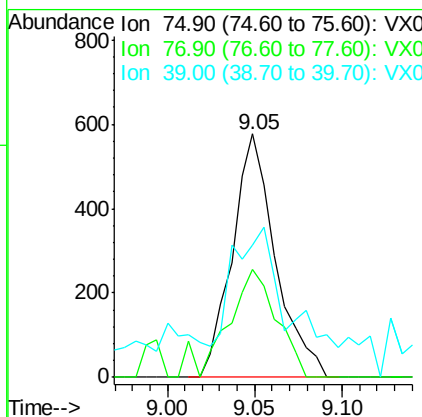
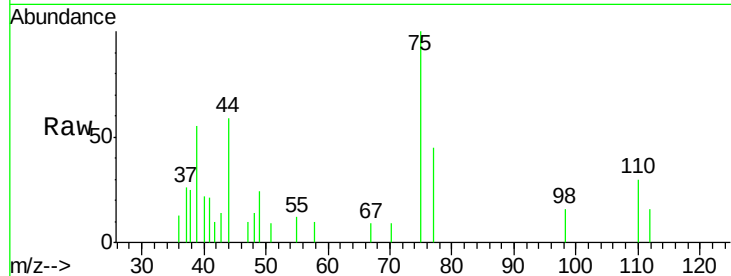
ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
75	100		
77	44.5	24.8	37.2#
39	42.5	42.4	63.6

Manual Integrations
APPROVED

MMDadoda
7/10/2018 3:11:52 PM



#58

2-Chloroethyl Vinyl ether

Concen: 0.78 ug/l

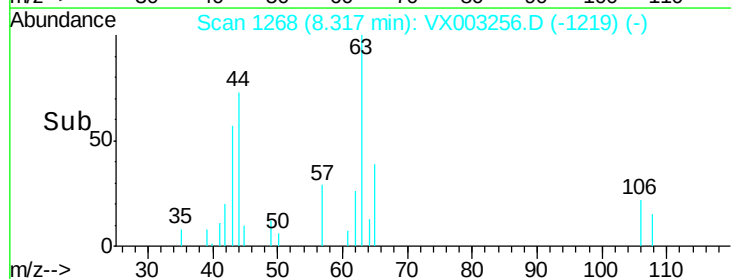
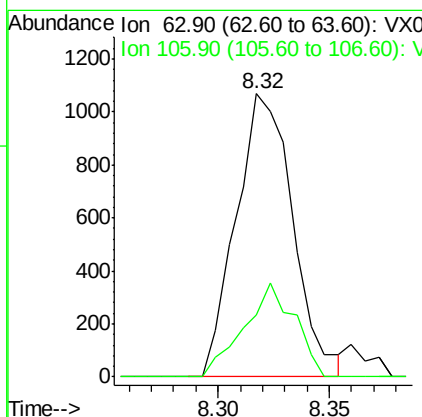
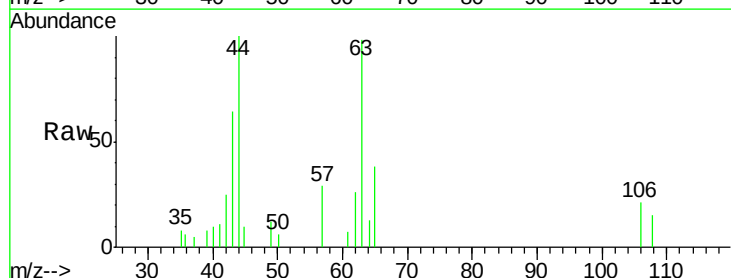
RT: 8.32 min Scan# 1268

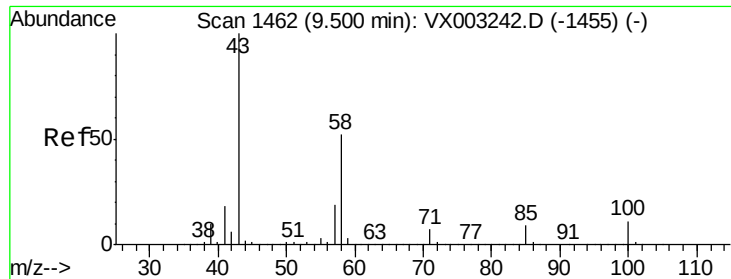
Delta R.T. -0.00 min

Lab File: VX003256.D

Acq: 09 Jul 2018 20:57

Tgt Ion	Ratio	Lower	Upper
63	100		
106	29.4	21.8	32.8





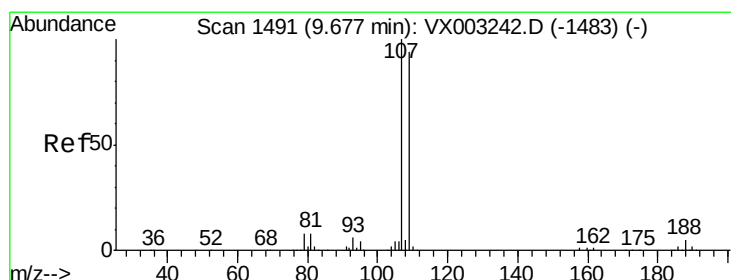
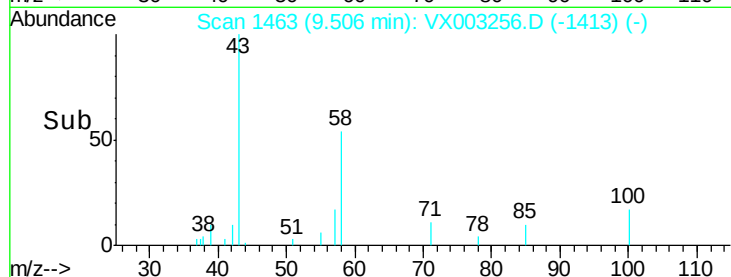
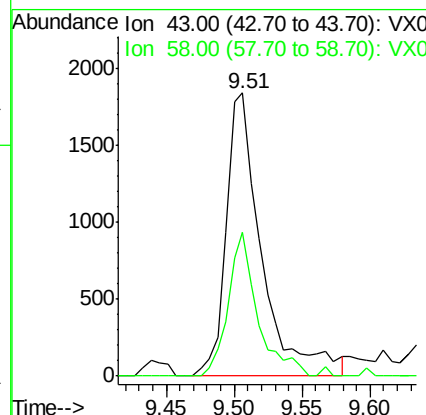
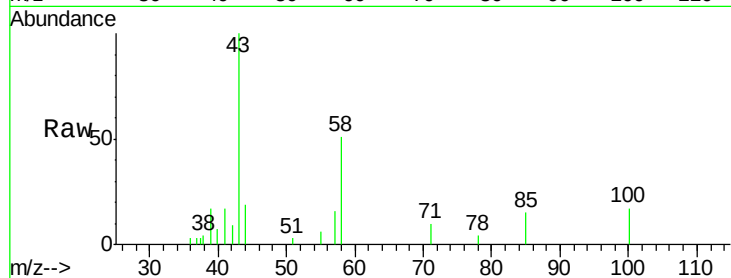
#59
2-Hexanone
Concen: 0.87 ug/l
RT: 9.51 min Scan# 1463
Delta R.T. 0.01 min
Lab File: VX003256.D
Acq: 09 Jul 2018 20:57

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT3-2018

Tot Ion: 43 Resp: 3354
Ion Ratio Lower Upper
43 100
58 41.9 24.6 73.6

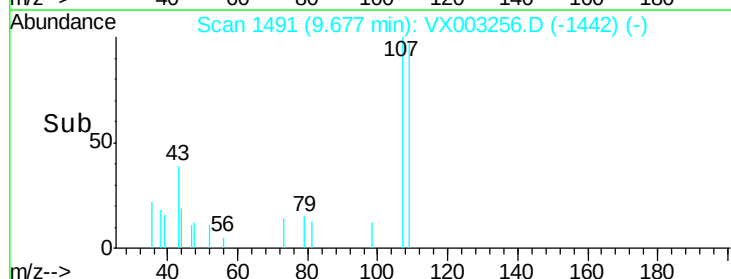
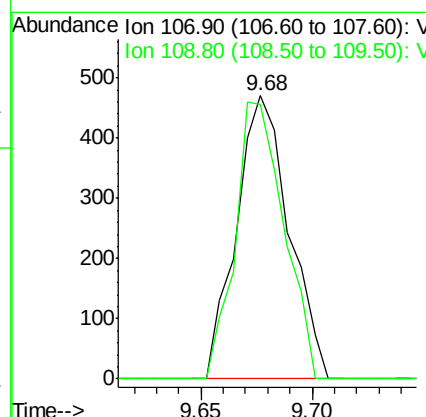
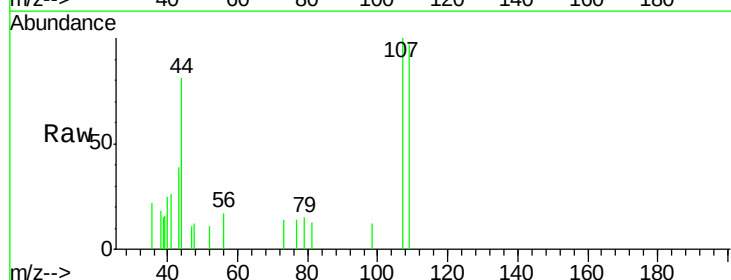
Manual Integrations
APPROVED

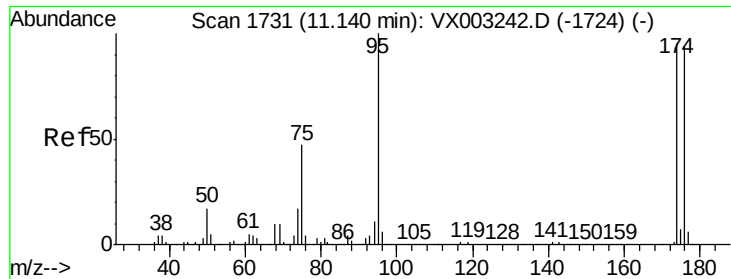
MMDadoda
7/10/2018 3:11:52 PM



#61
1,2-Dibromoethane
Concen: 0.20 ug/l
RT: 9.68 min Scan# 1491
Delta R.T. -0.00 min
Lab File: VX003256.D
Acq: 09 Jul 2018 20:57

Tgt Ion:107 Resp: 774
Ion Ratio Lower Upper
107 100
109 90.2 75.3 112.9





#62

4-Bromofluorobenzene

Concen: 45.73 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX003256.D

Acq: 09 Jul 2018 20:57

Instrument :

MSVOA_X

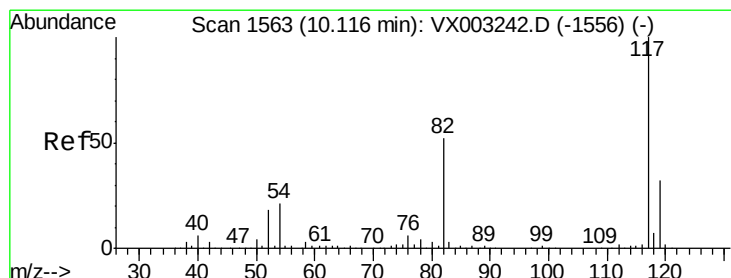
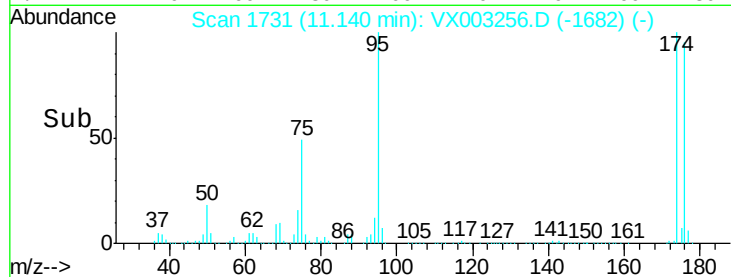
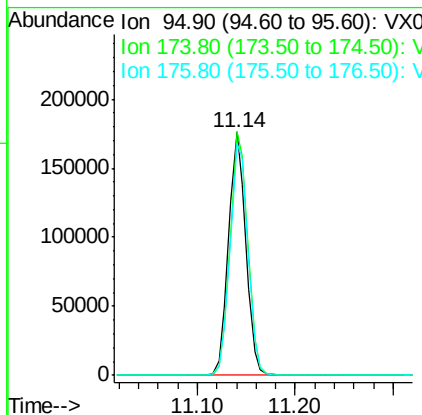
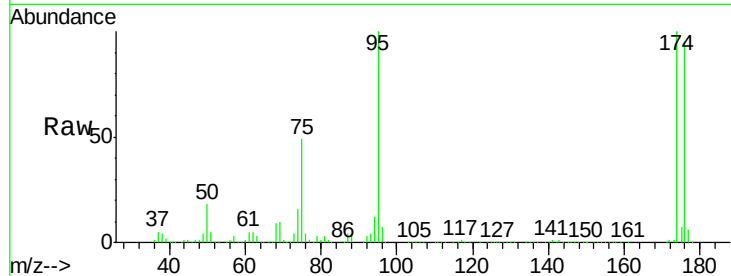
ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion:	95	Resp:	216100
Ion Ratio	Lower	Upper	
95	100		
174	102.7	0.0	187.4
176	99.0	0.0	181.0

Manual Integrations
APPROVED

MMDadoda
7/10/2018 3:11:52 PM



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

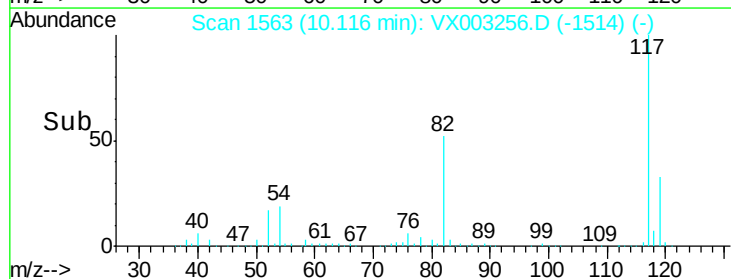
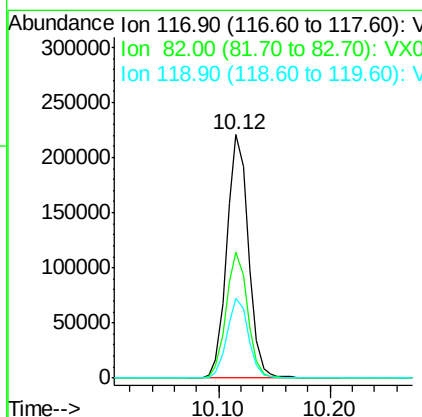
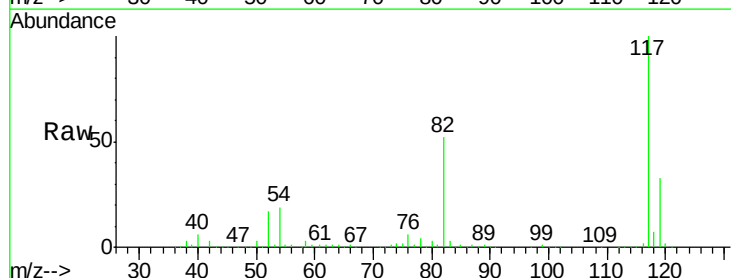
RT: 10.12 min Scan# 1563

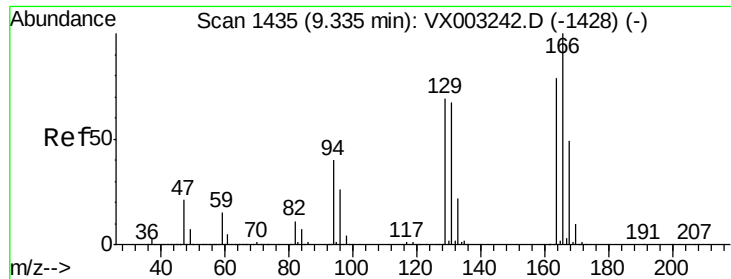
Delta R.T. -0.00 min

Lab File: VX003256.D

Acq: 09 Jul 2018 20:57

Tgt Ion:	117	Resp:	296935
Ion Ratio	Lower	Upper	
117	100		
82	51.8	45.0	67.4
119	33.0	25.8	38.6





#64

Tetrachloroethene

Concen: 0.29 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.00 min

Lab File: VX003256.D

Acq: 09 Jul 2018 20:57

Instrument :

MSVOA_X

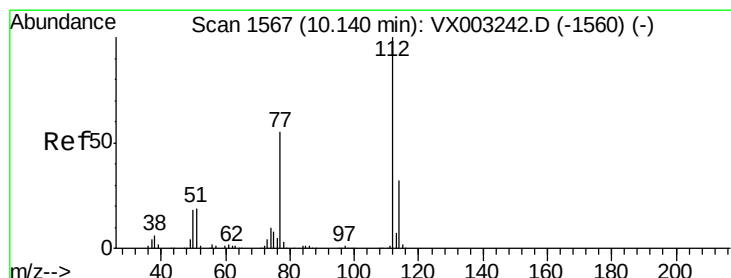
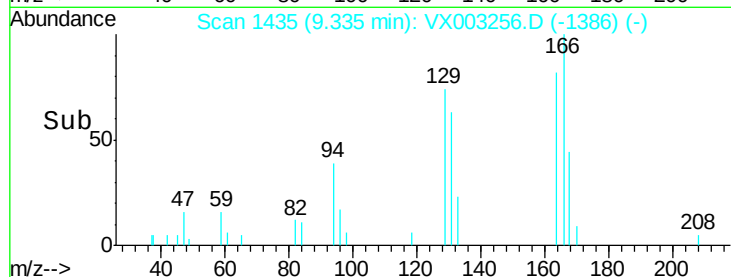
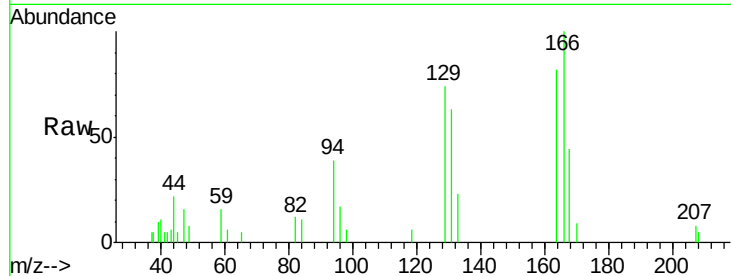
ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion:	164	Resp:	1288
Ion	Ratio	Lower	Upper
164	100		
166	121.8	102.9	154.3
129	89.7	68.6	102.8
131	76.9	66.8	100.2

Manual Integrations
APPROVED

MMDadoda
7/10/2018 3:11:52 PM



#65

Chlorobenzene

Concen: 0.25 ug/l

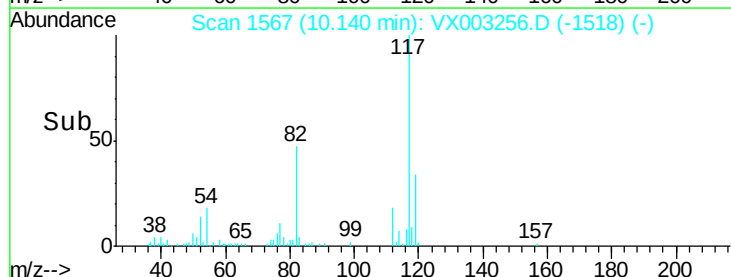
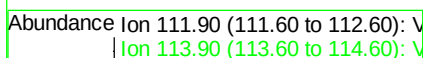
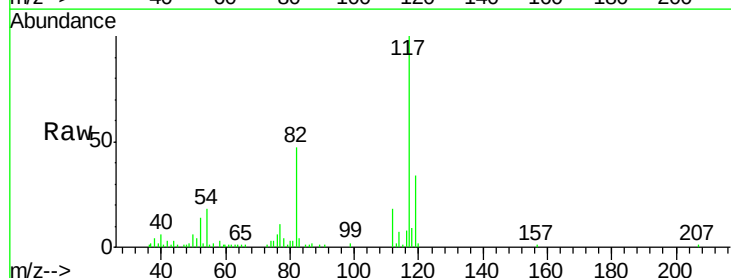
RT: 10.14 min Scan# 1567

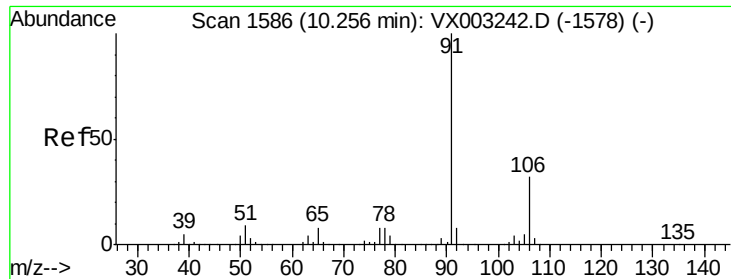
Delta R.T. -0.00 min

Lab File: VX003256.D

Acq: 09 Jul 2018 20:57

Tgt Ion:	112	Resp:	2543
Ion	Ratio	Lower	Upper
112	100		
114	36.5	25.3	37.9





#67

Ethyl Benzene

Concen: 0.22 ug/l

RT: 10.26 min Scan# 1586

Delta R.T. -0.00 min

Lab File: VX003256.D

Acq: 09 Jul 2018 20:57

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion: 91 Resp: 3578

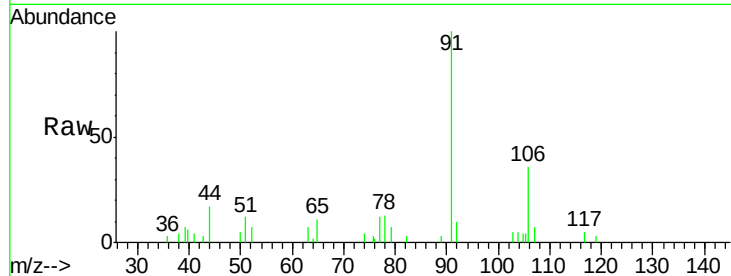
Ion Ratio Lower Upper

91 100

106 35.8 25.5 38.3

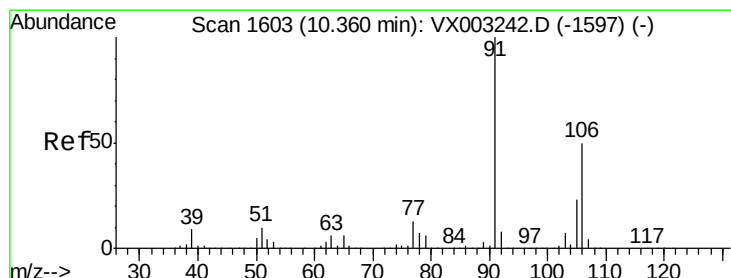
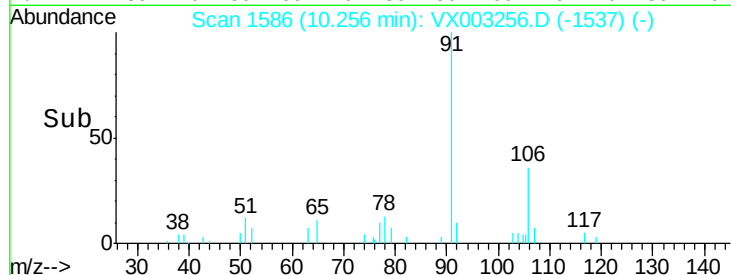
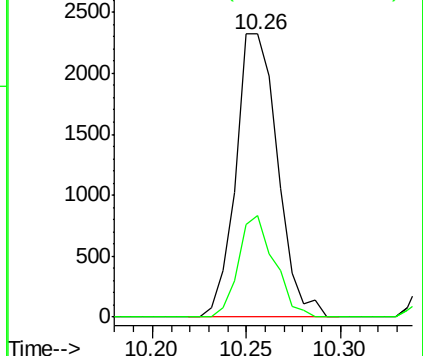
Manual Integrations
APPROVED

MMDadoda
7/10/2018 3:11:52 PM



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 0.42 ug/l

RT: 10.37 min Scan# 1604

Delta R.T. 0.01 min

Lab File: VX003256.D

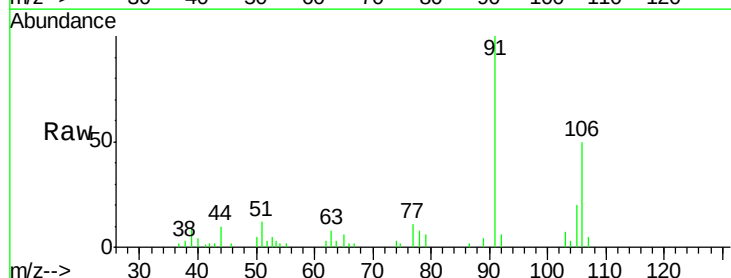
Acq: 09 Jul 2018 20:57

Tgt Ion: 106 Resp: 2696

Ion Ratio Lower Upper

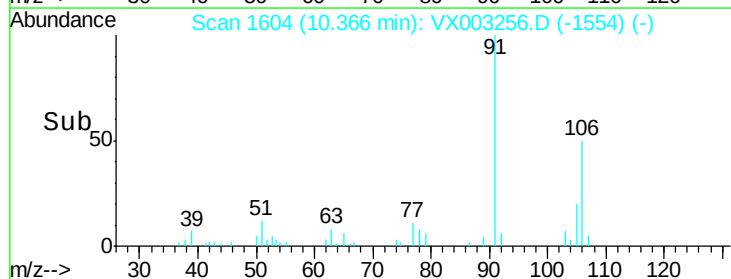
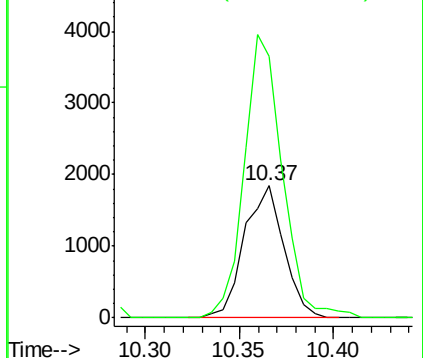
106 100

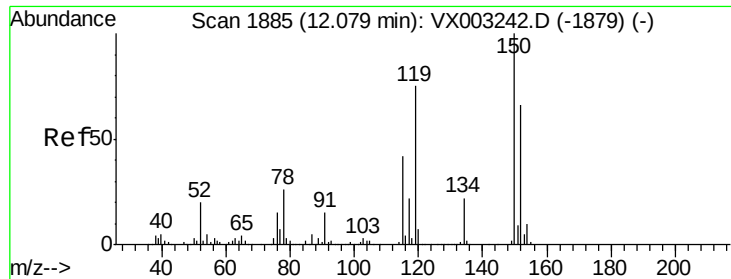
91 206.2 163.4 245.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0





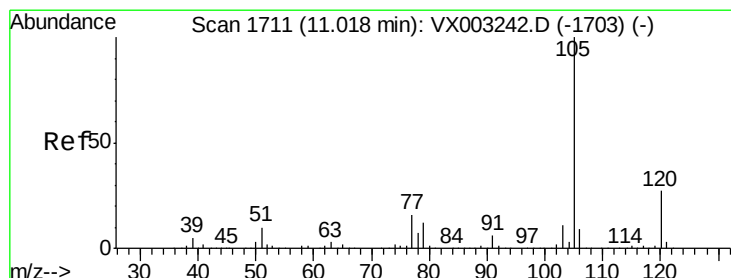
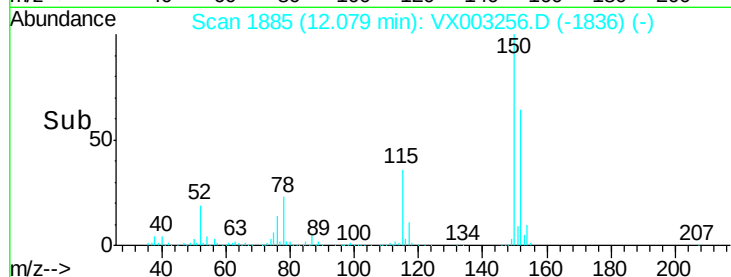
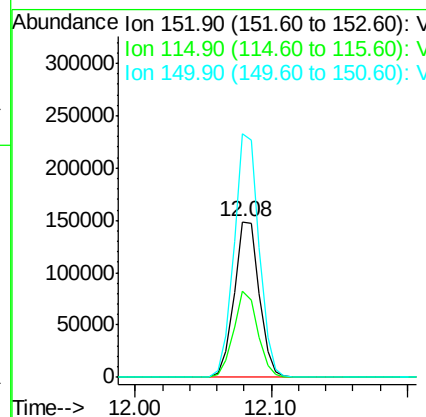
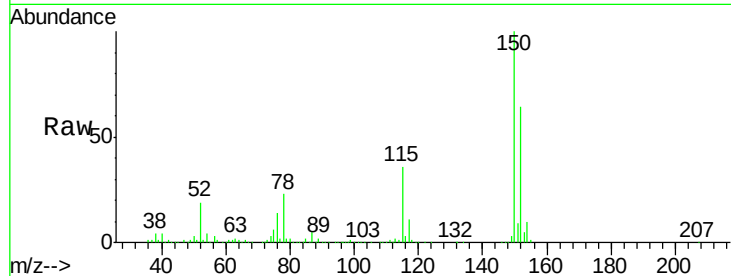
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.00 ug/l
 RT: 12.08 min Scan# 1885
 Delta R.T. -0.00 min
 Lab File: VX003256.D
 Acq: 09 Jul 2018 20:57

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT3-2018

Tot Ion	Ratio	Resp	Lower	Upper
152	100	190310		
115	53.2	40.1	120.2	
150	155.6	0.0	347.2	

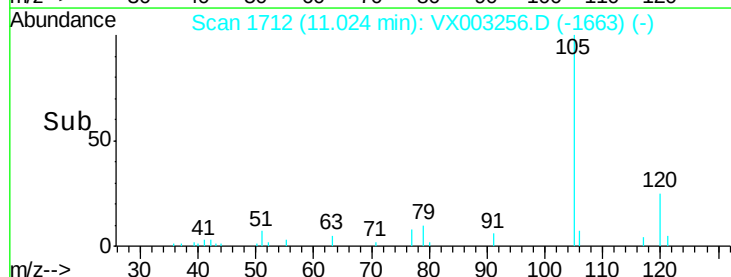
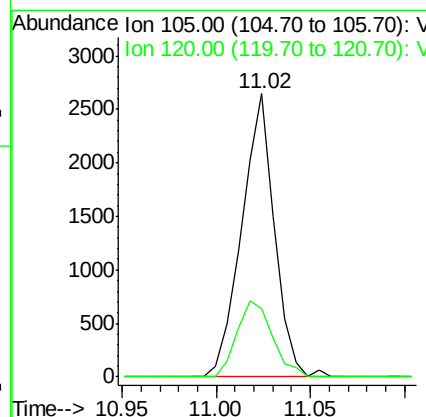
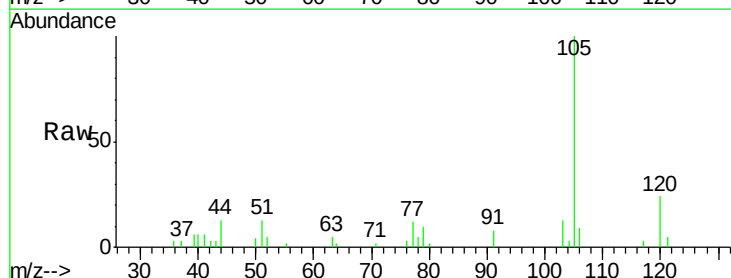
Manual Integrations
 APPROVED

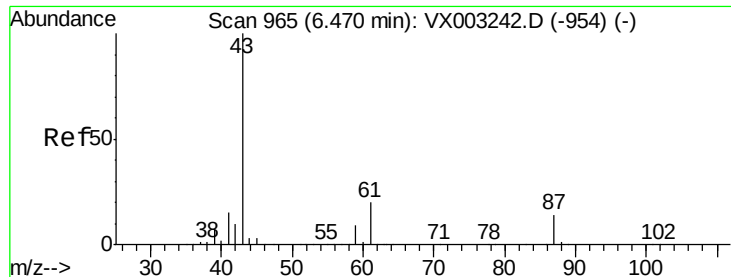
MMDadoda
 7/10/2018 3:11:52 PM



#73
 Isopropylbenzene
 Concen: 0.21 ug/l
 RT: 11.02 min Scan# 1712
 Delta R.T. -0.00 min
 Lab File: VX003256.D
 Acq: 09 Jul 2018 20:57

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	3175		
120	29.2	13.5	40.4	





#74

N-amvl acetate

Concen: 0.23 ug/l

RT: 6.48 min Scan# 967

Delta R.T. 0.01 min

Lab File: VX003256.D

Acq: 09 Jul 2018 20:57

Instrument :

MSVOA_X

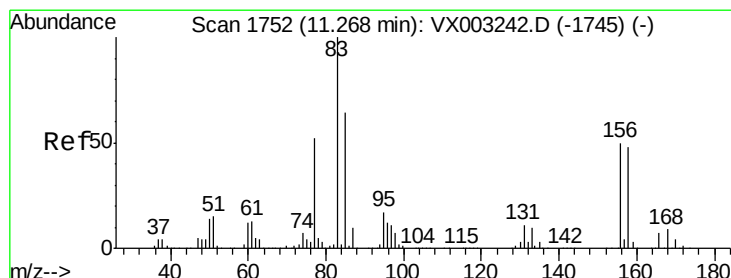
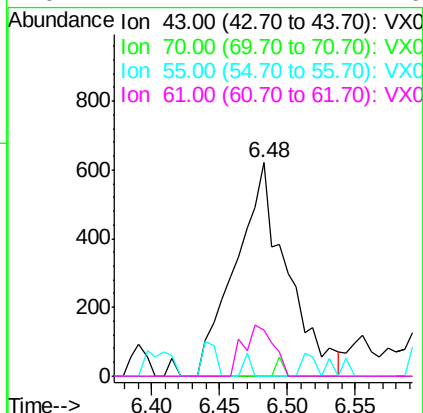
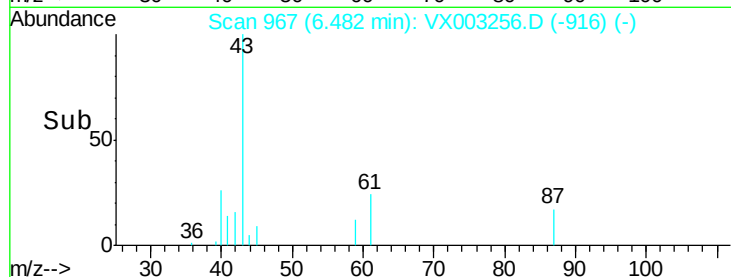
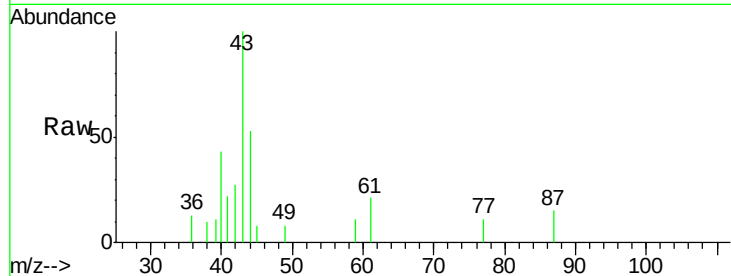
ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion:	43.00	Resp:	1630
Ion Ratio	Lower	Upper	
43	100		
70	0.0	0.0	0.0
55	1.5	0.0	0.0#
61	14.2	14.4	21.6#

Manual Integrations
APPROVED

MMDadoda
7/10/2018 3:11:52 PM



#75

1,1,2,2-Tetrachloroethane

Concen: 0.21 ug/l

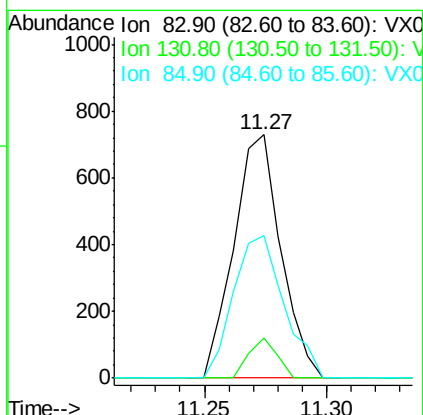
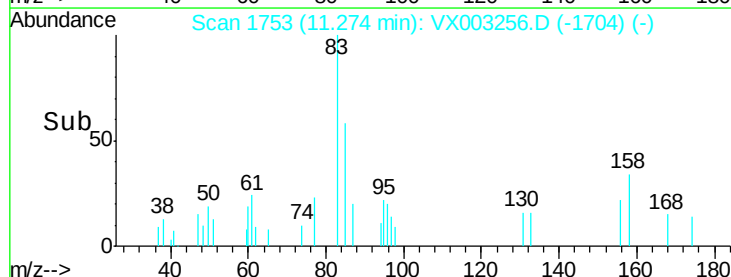
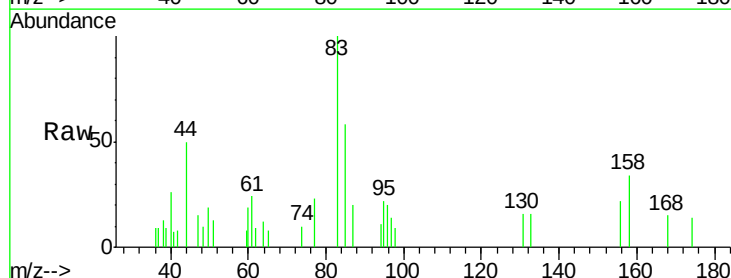
RT: 11.27 min Scan# 1753

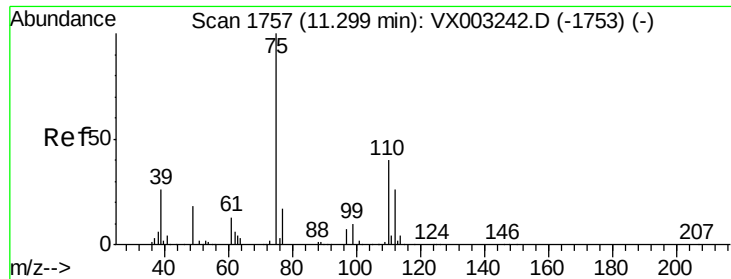
Delta R.T. -0.00 min

Lab File: VX003256.D

Acq: 09 Jul 2018 20:57

Tgt Ion:	83	Resp:	974
Ion Ratio	Lower	Upper	
83	100		
131	9.8	5.6	16.8
85	63.0	32.4	97.2





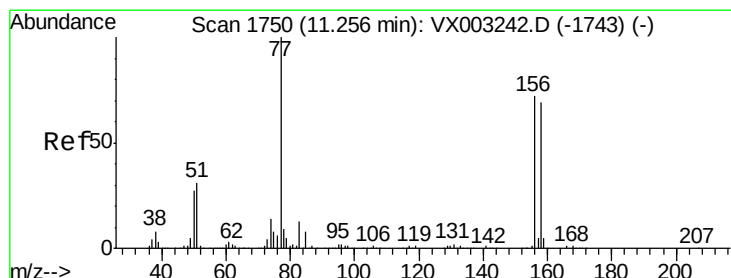
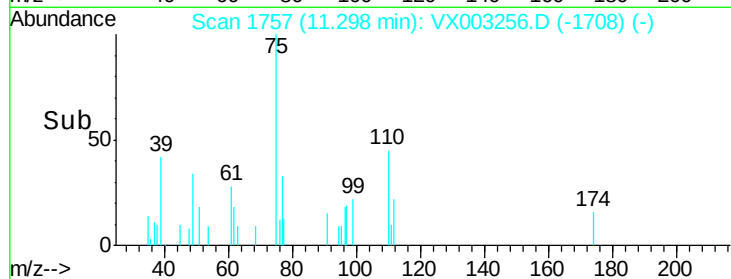
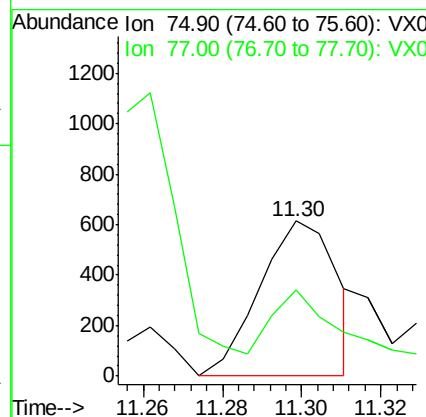
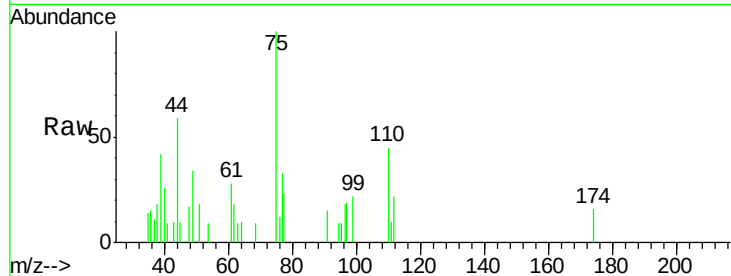
#76
 1,2,3-Trichloropropane
 Concen: 0.20 ug/l m
 RT: 11.30 min Scan# 1757
 Delta R.T. -0.00 min
 Lab File: VX003256.D
 Acq: 09 Jul 2018 20:57

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT3-2018

Tot Ion: 75 Resp: 840
 Ion Ratio Lower Upper
 75 100
 77 183.3 22.8 68.3#

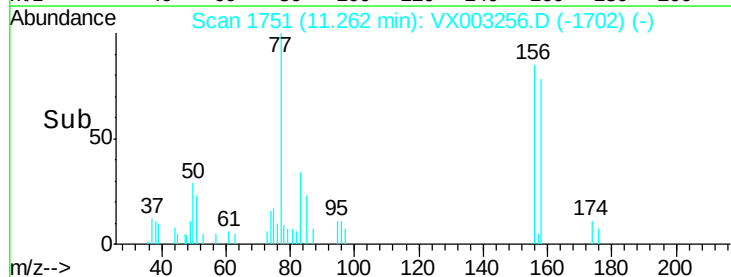
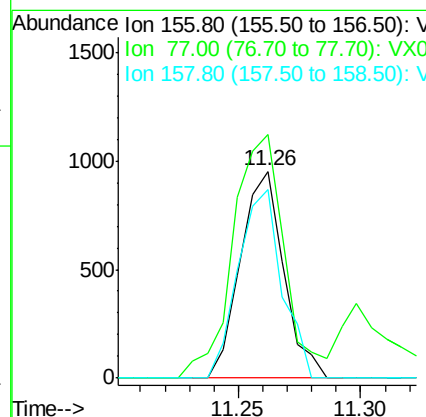
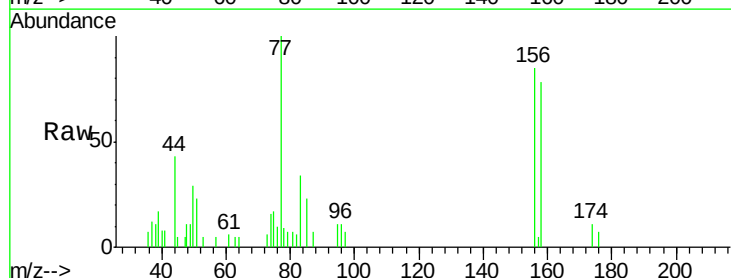
Manual Integrations
 APPROVED

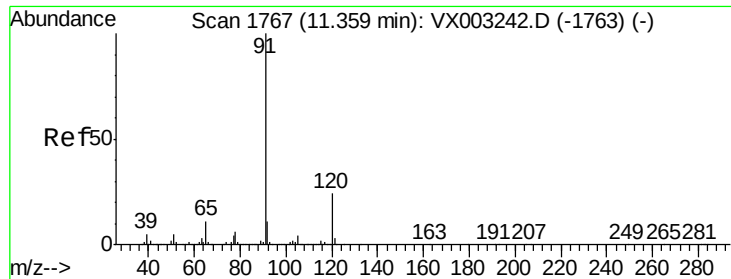
MMDadoda
 7/10/2018 3:11:52 PM



#77
 Bromobenzene
 Concen: 0.27 ug/l
 RT: 11.26 min Scan# 1751
 Delta R.T. -0.00 min
 Lab File: VX003256.D
 Acq: 09 Jul 2018 20:57

Tgt Ion: 156 Resp: 1174
 Ion Ratio Lower Upper
 156 100
 77 139.9 71.4 214.2
 158 91.6 48.9 146.6





#78

n-propylbenzene

Concen: 0.26 ug/l

RT: 11.37 min Scan# 1768

Delta R.T. -0.00 min

Lab File: VX003256.D

Acq: 09 Jul 2018 20:57

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion: 91 Resp: 4266

Ion Ratio Lower Upper

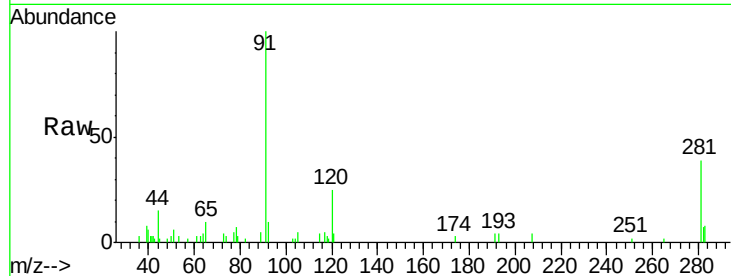
91 100

120 25.1 11.8 35.4

Manual Integrations
APPROVED

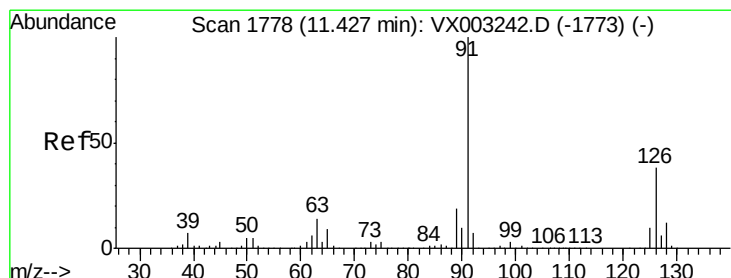
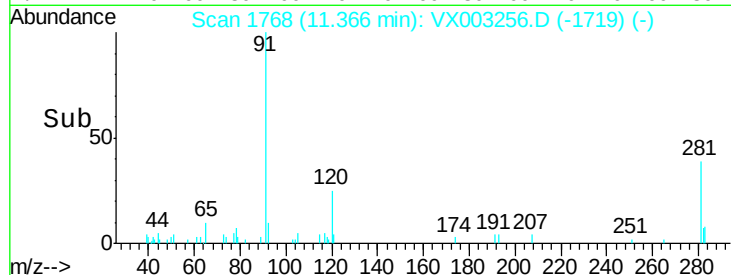
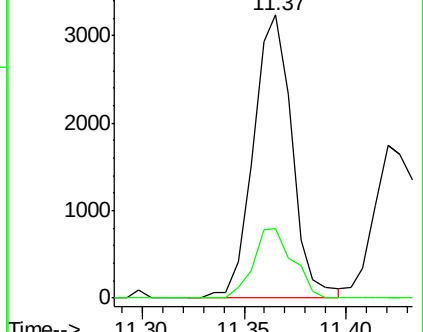
MMDadoda

7/10/2018 3:11:52 PM



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V



#79

2-Chlorotoluene

Concen: 0.26 ug/l

RT: 11.42 min Scan# 1777

Delta R.T. -0.01 min

Lab File: VX003256.D

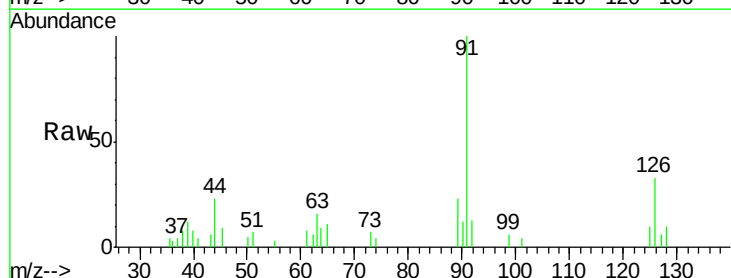
Acq: 09 Jul 2018 20:57

Tgt Ion: 91 Resp: 2636

Ion Ratio Lower Upper

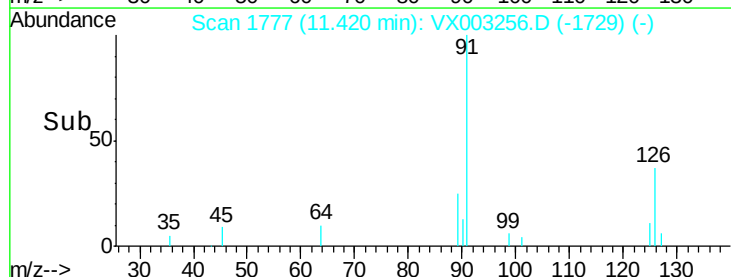
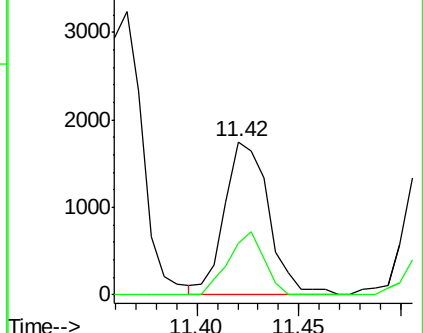
91 100

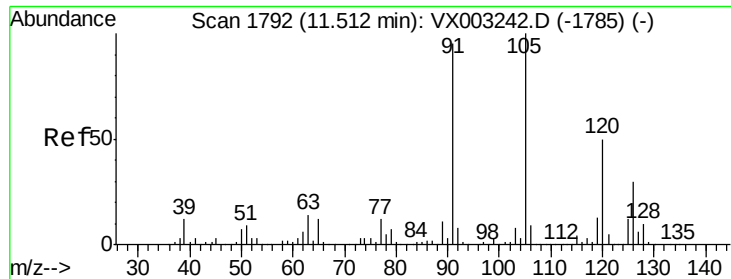
126 32.8 17.7 53.1



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V





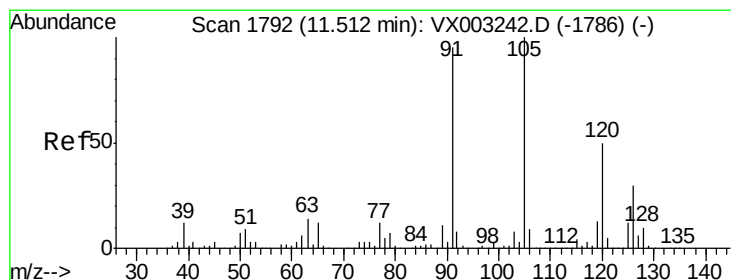
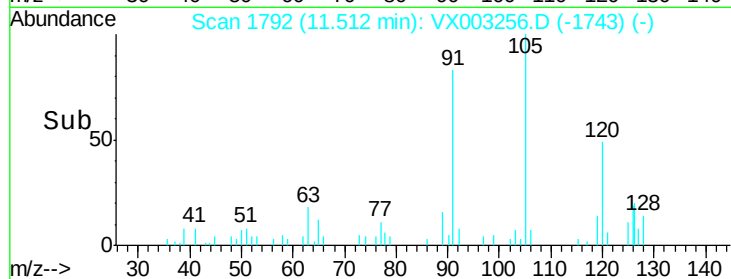
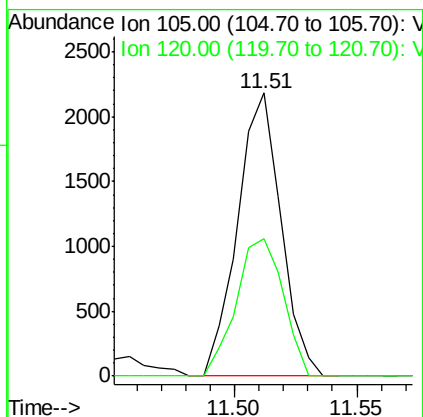
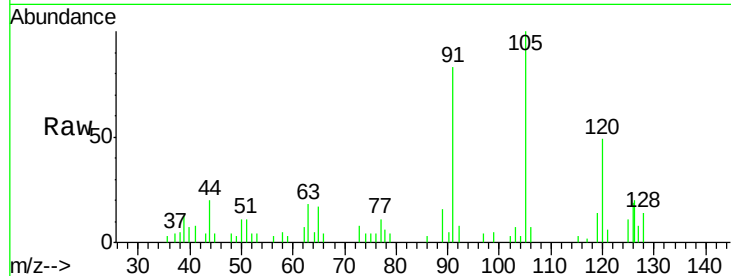
#80
1,3,5-Trimethylbenzene
Concen: 0.22 ug/l
RT: 11.51 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX003256.D
Acq: 09 Jul 2018 20:57

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT3-2018

Tot Ion:105 Resp: 2694
Ion Ratio Lower Upper
105 100
120 52.2 24.4 73.4

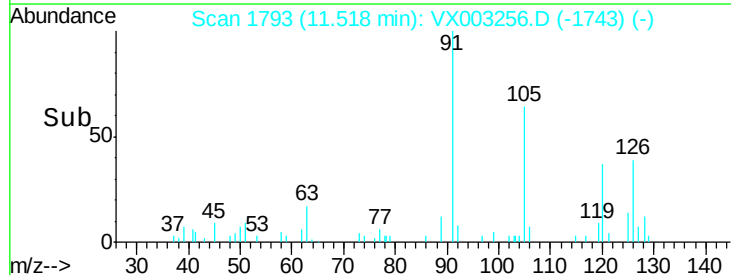
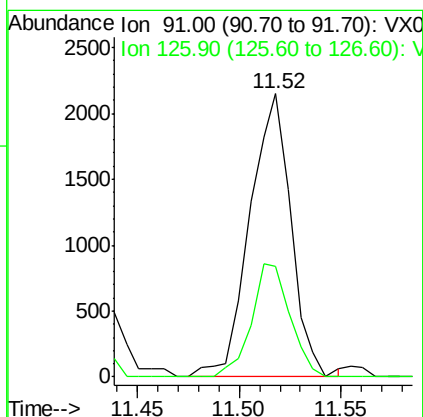
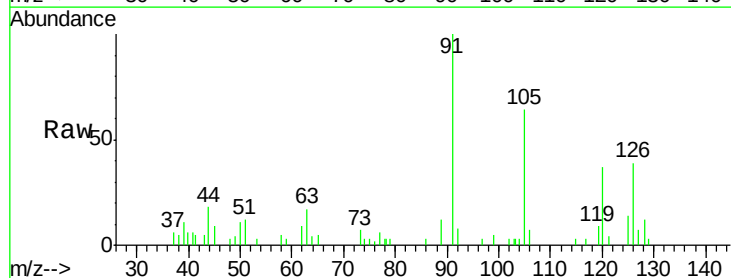
Manual Integrations
APPROVED

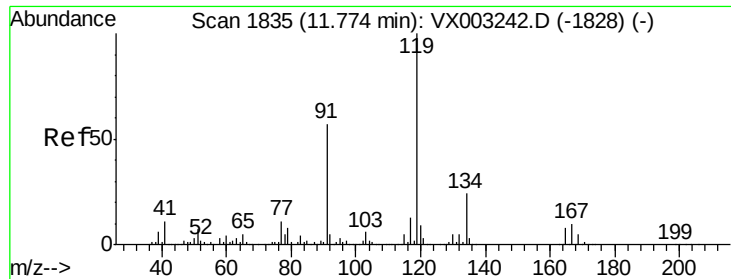
MMDadoda
7/10/2018 3:11:52 PM



#82
4-Chlorotoluene
Concen: 0.25 ug/l
RT: 11.52 min Scan# 1793
Delta R.T. 0.01 min
Lab File: VX003256.D
Acq: 09 Jul 2018 20:57

Tgt Ion: 91 Resp: 3023
Ion Ratio Lower Upper
91 100
126 37.4 15.4 46.4





#83

tert-Butylbenzene

Concen: 0.21 ug/l

RT: 11.77 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX003256.D

Acq: 09 Jul 2018 20:57

Instrument :

MSVOA_X

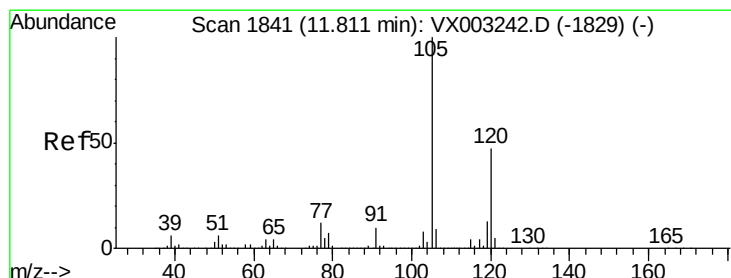
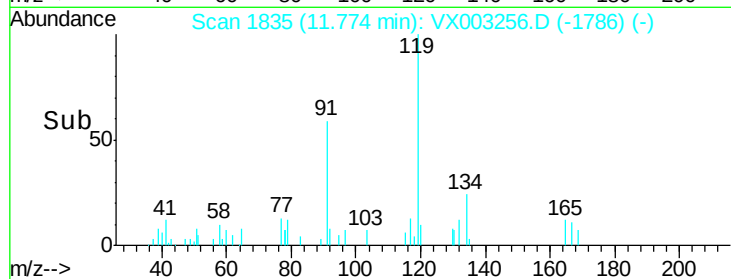
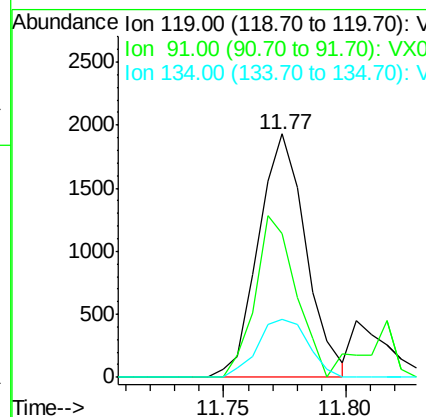
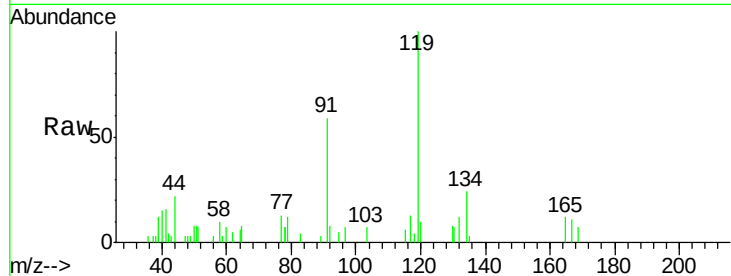
ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion:	119	Resp:	2603
Ion Ratio	Lower	Upper	
119	100		
91	56.9	30.3	90.9
134	25.3	11.7	35.1

Manual Integrations
APPROVED

MMDadoda
7/10/2018 3:11:52 PM



#84

1,2,4-Trimethylbenzene

Concen: 0.21 ug/l

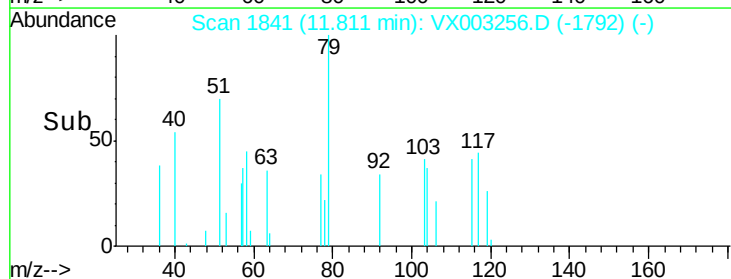
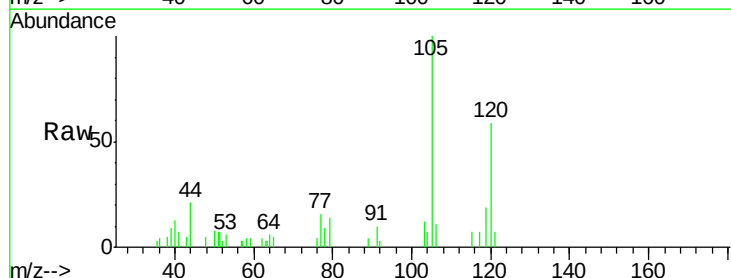
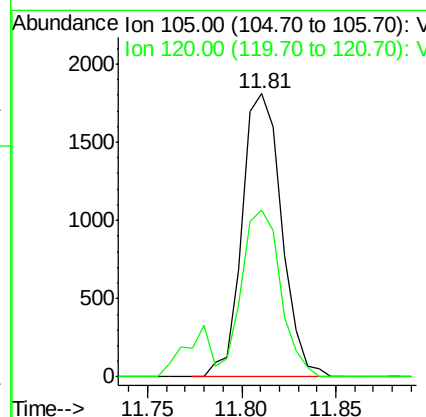
RT: 11.81 min Scan# 1841

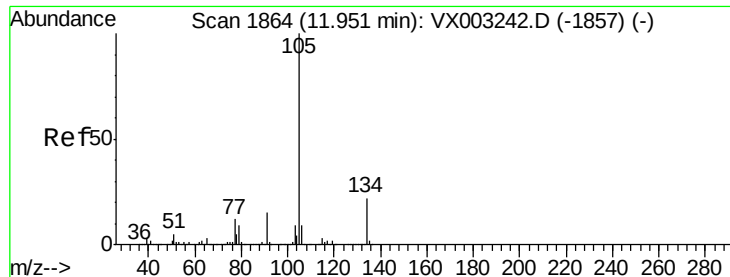
Delta R.T. -0.00 min

Lab File: VX003256.D

Acq: 09 Jul 2018 20:57

Tgt Ion:	105	Resp:	2632
Ion Ratio	Lower	Upper	
105	100		
120	58.1	22.3	66.8





#85

sec-Butylbenzene

Concen: 0.22 ug/l

RT: 11.95 min Scan# 1864

Delta R.T. -0.00 min

Lab File: VX003256.D

Acq: 09 Jul 2018 20:57

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion:105 Resp: 3206

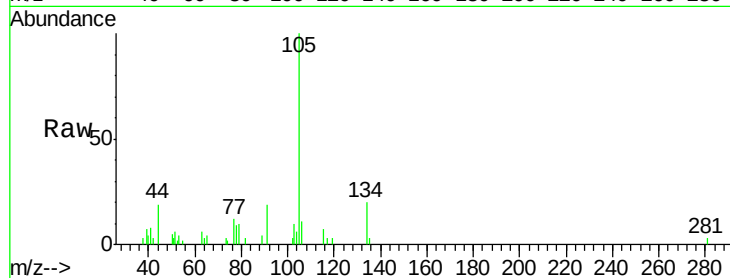
Ion Ratio Lower Upper

105 100

134 21.6 10.4 31.1

Manual Integrations
APPROVED

MMDadoda
7/10/2018 3:11:52 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

2500

2000

1500

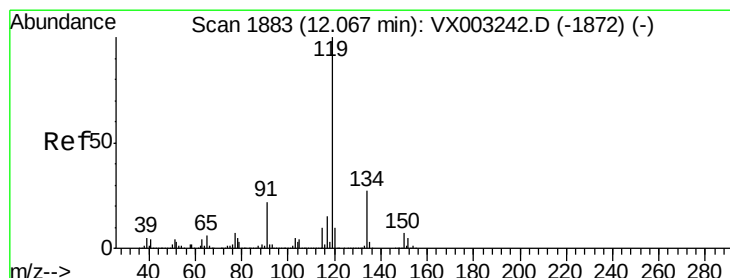
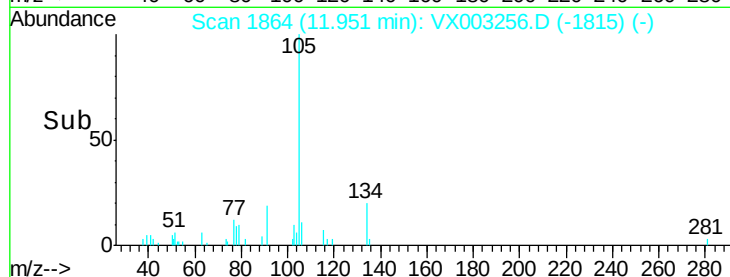
1000

500

0

11.90 11.95 12.00

Time-->



#86

p-Isopropyltoluene

Concen: 0.22 ug/l

RT: 12.07 min Scan# 1883

Delta R.T. -0.00 min

Lab File: VX003256.D

Acq: 09 Jul 2018 20:57

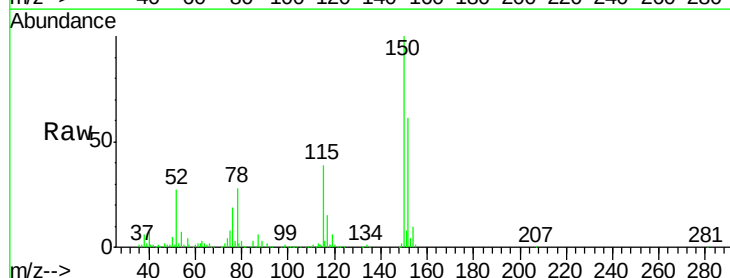
Tgt Ion:119 Resp: 2951

Ion Ratio Lower Upper

119 100

134 31.1 13.4 40.1

91 43.6 11.9 35.7#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

3000

2500

2000

1500

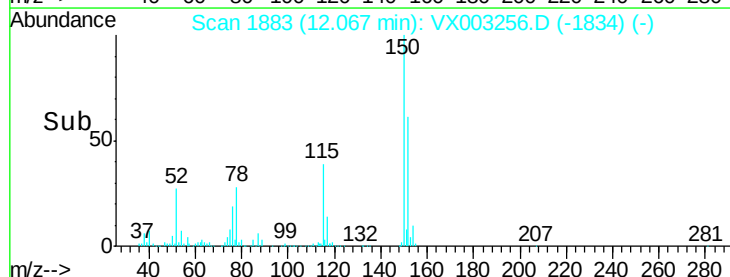
1000

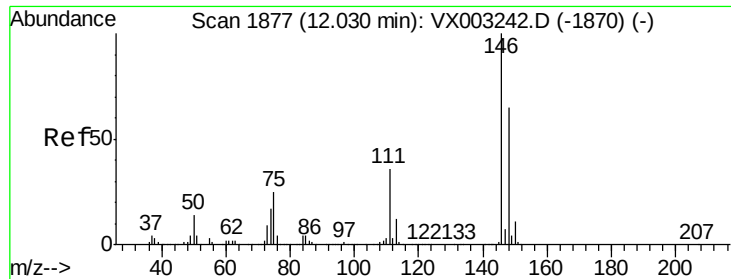
500

0

12.05 12.10

Time-->





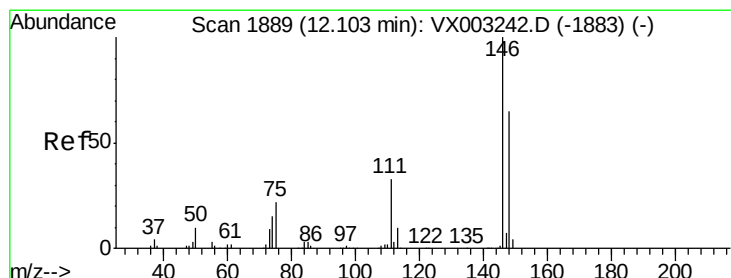
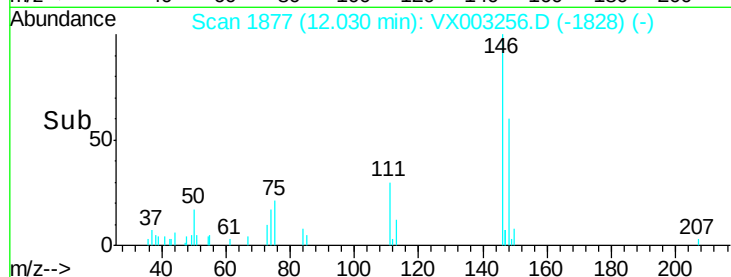
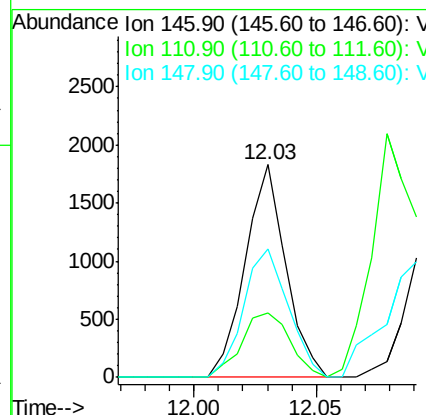
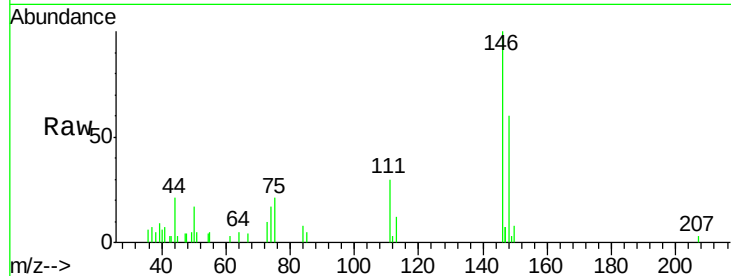
#87
 1,3-Dichlorobenzene
 Concen: 0.26 ug/l
 RT: 12.03 min Scan# 1877
 Delta R.T. -0.00 min
 Lab File: VX003256.D
 Acq: 09 Jul 2018 20:57

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.3	18.9	56.7
148	66.7	32.1	96.3

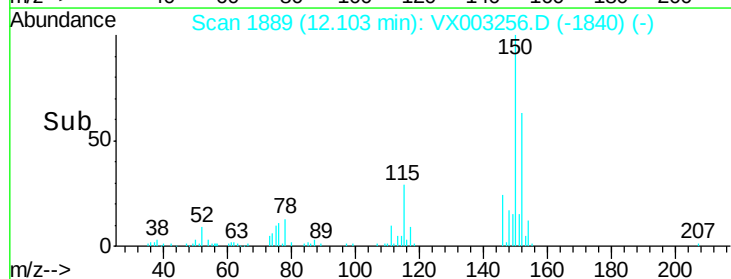
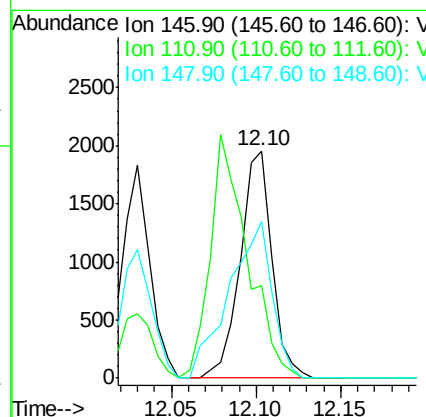
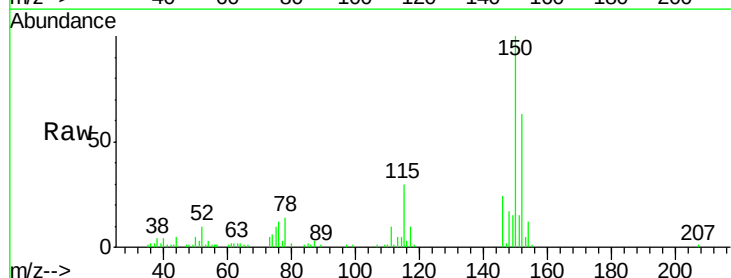
Manual Integrations
 APPROVED

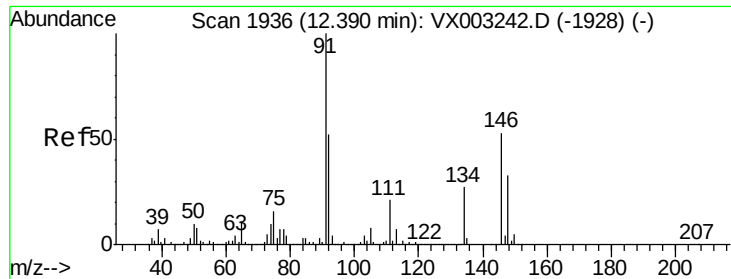
MMDadoda
 7/10/2018 3:11:52 PM



#88
 1,4-Dichlorobenzene
 Concen: 0.32 ug/l m
 RT: 12.10 min Scan# 1889
 Delta R.T. -0.00 min
 Lab File: VX003256.D
 Acq: 09 Jul 2018 20:57

Tgt Ion	Ratio	Lower	Upper
146	100		
111	29.7	18.7	56.1
148	54.7	32.4	97.0





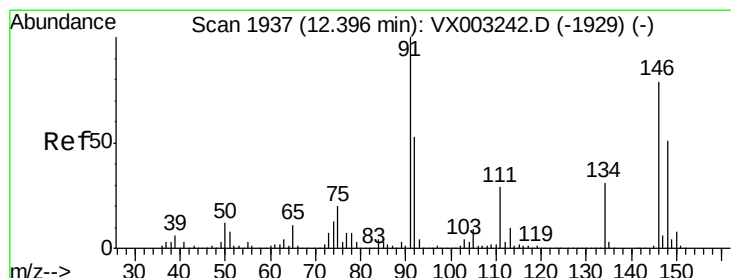
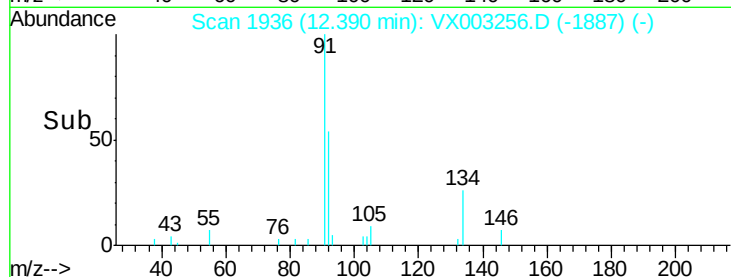
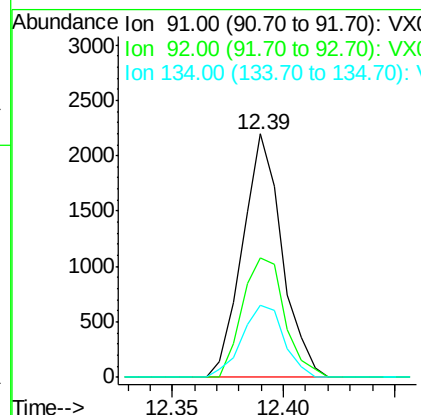
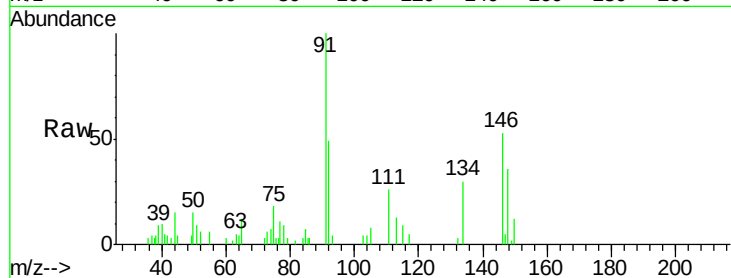
#89
n-Butylbenzene
Concen: 0.24 ug/l
RT: 12.39 min Scan# 1936
Delta R.T. -0.00 min
Lab File: VX003256.D
Acq: 09 Jul 2018 20:57

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.6	26.0	78.0
134	31.6	13.5	40.5

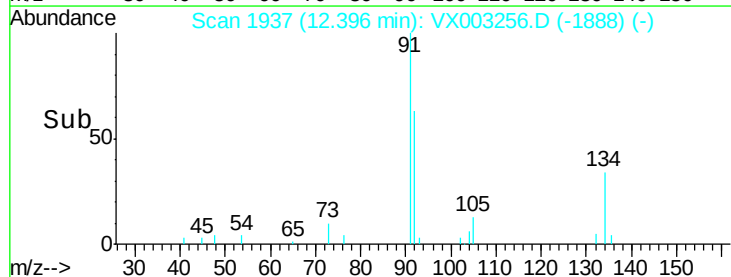
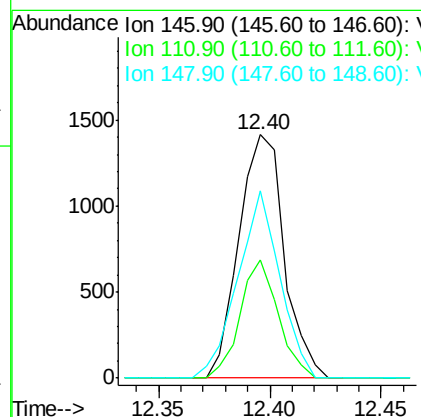
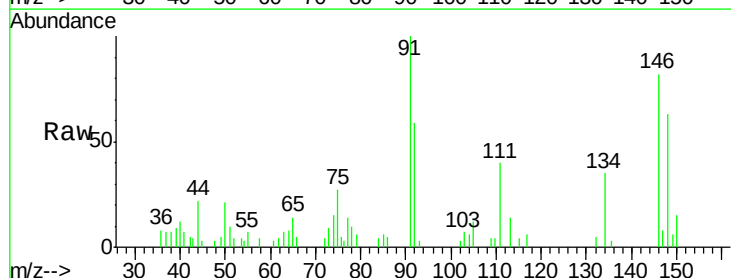
Manual Integrations
APPROVED

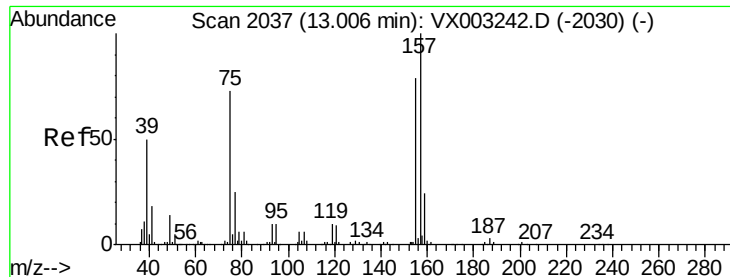
MMDadoda
7/10/2018 3:11:52 PM



#91
1,2-Dichlorobenzene
Concen: 0.25 ug/l
RT: 12.40 min Scan# 1937
Delta R.T. -0.00 min
Lab File: VX003256.D
Acq: 09 Jul 2018 20:57

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.9	19.4	58.1
148	71.6	31.7	95.1





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.25 ug/l

RT: 13.01 min Scan# 2037

Delta R.T. -0.00 min

Lab File: VX003256.D

Acq: 09 Jul 2018 20:57

Instrument :

MSVOA_X

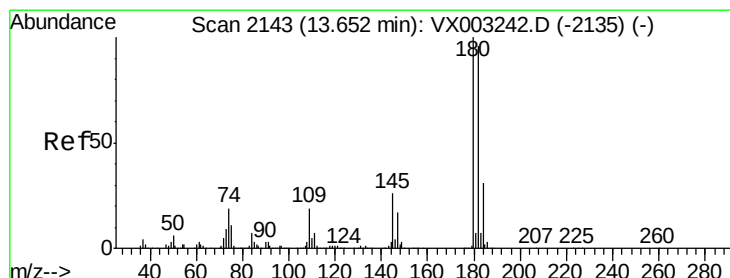
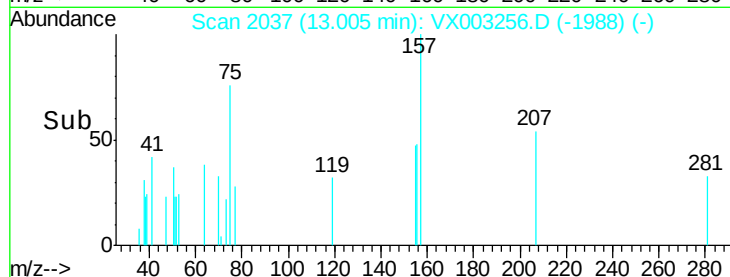
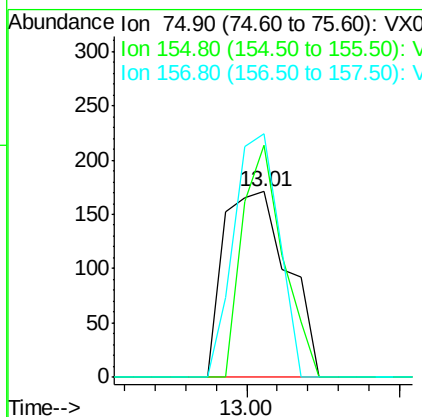
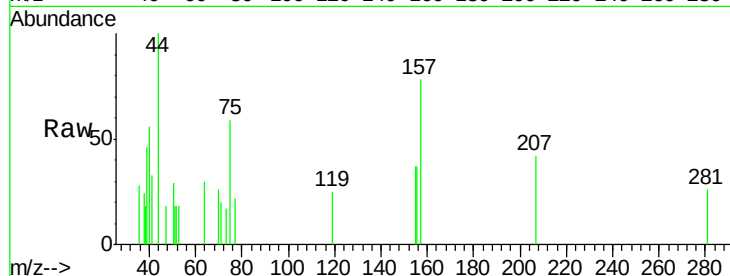
ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion:	75	Resp:	248
Ion	Ratio	Lower	Upper
75	100		
155	79.4	45.8	137.4
157	92.3	60.1	180.3

Manual Integrations
APPROVED

MMDadoda
7/10/2018 3:11:52 PM



#93

1,2,4-Trichlorobenzene

Concen: 0.32 ug/l

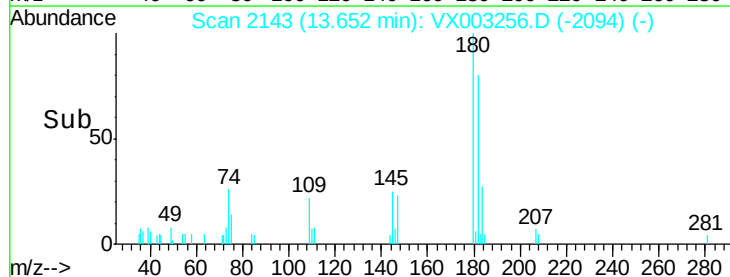
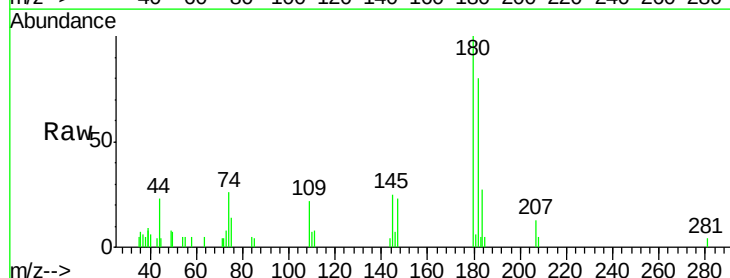
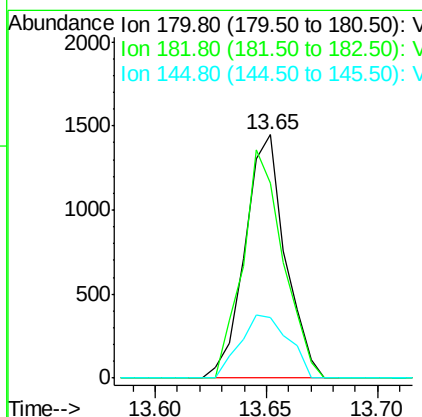
RT: 13.65 min Scan# 2143

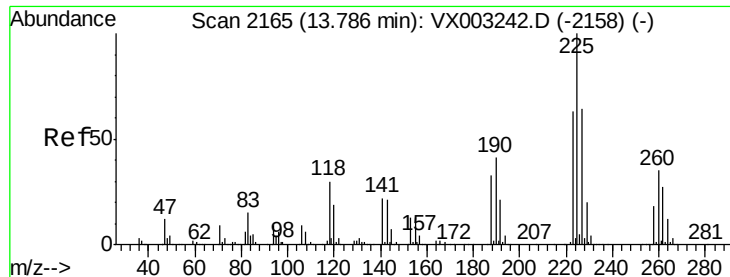
Delta R.T. -0.00 min

Lab File: VX003256.D

Acq: 09 Jul 2018 20:57

Tgt Ion:	180	Resp:	1832
Ion	Ratio	Lower	Upper
180	100		
182	93.7	47.7	143.1
145	30.8	14.1	42.4





#94

Hexachlorobutadiene

Concen: 0.32 ug/l

RT: 13.79 min Scan# 2165

Delta R.T. -0.00 min

Lab File: VX003256.D

Acq: 09 Jul 2018 20:57

Instrument :

MSVOA_X

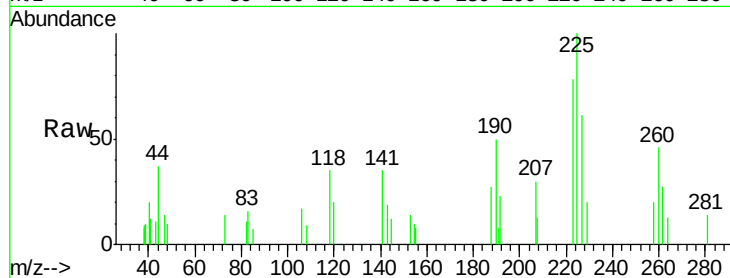
ClientSampleId :

MDL-WATER-03-QT3-2018

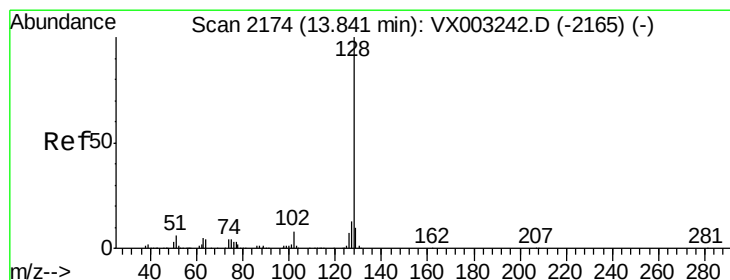
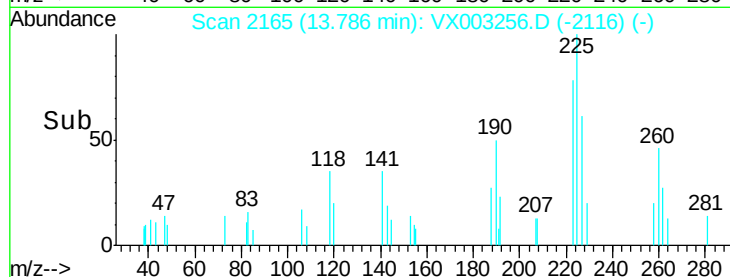
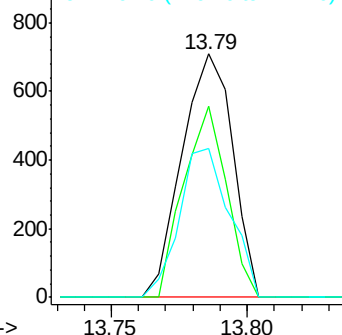
Tot Ion:	225	Resp:	916
Ion Ratio	Lower	Upper	
225	100		
223	66.6	31.6	95.0
227	60.7	32.4	97.2

Manual Integrations
APPROVED

MMDadoda
7/10/2018 3:11:52 PM



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.22 ug/l

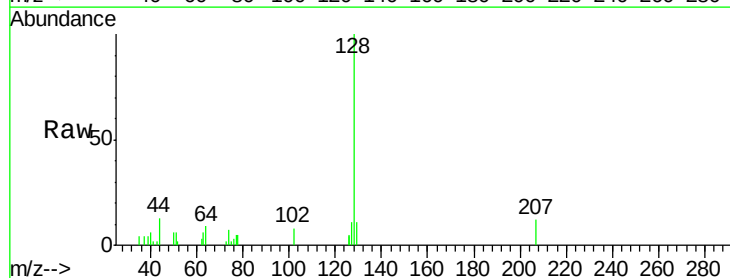
RT: 13.84 min Scan# 2174

Delta R.T. 0.01 min

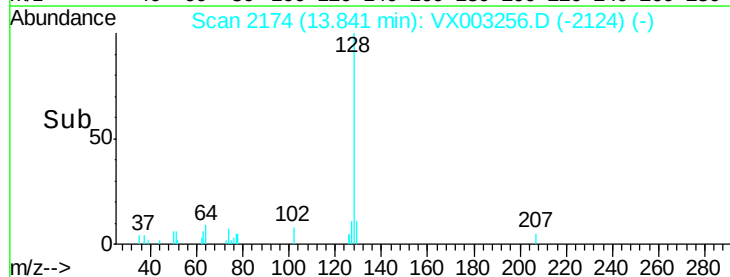
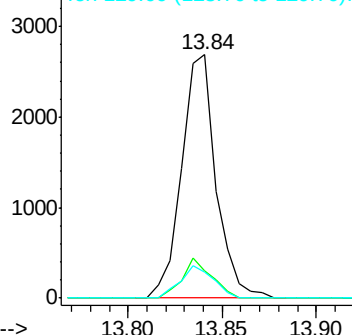
Lab File: VX003256.D

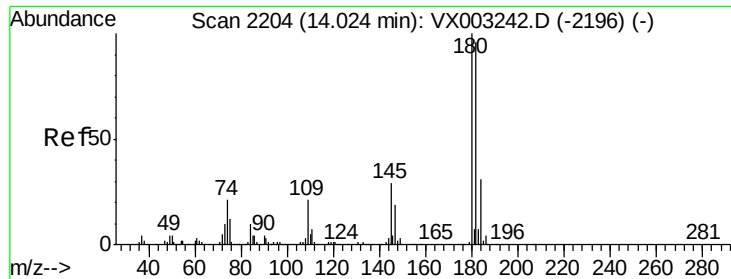
Acq: 09 Jul 2018 20:57

Tgt Ion:	128	Resp:	3394
Ion Ratio	Lower	Upper	
128	100		
127	14.3	10.4	15.6
129	12.7	8.6	13.0



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V





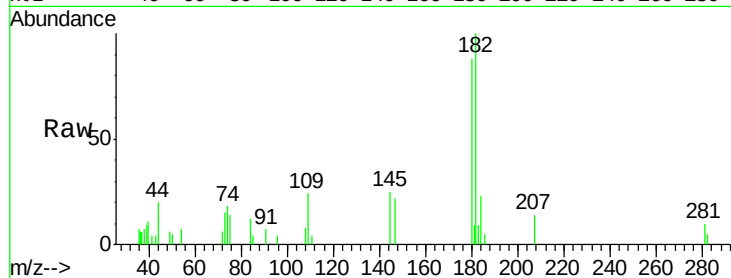
#96
 1,2,3-Trichlorobenzene
 Concen: 0.28 ug/l
 RT: 14.02 min Scan# 2204
 Delta R.T. -0.00 min
 Lab File: VX003256.D
 Acq: 09 Jul 2018 20:57

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
180	100		
182	100.0	48.0	144.0
145	27.8	14.8	44.3

Manual Integrations
 APPROVED

MMDadoda
 7/10/2018 3:11:52 PM



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

