

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050219\
 Data File : VX009267.D
 Acq On : 02 May 2019 11:04
 Operator : JC/SP
 Sample : K2241-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT2-2019

Manual Integrations
 APPROVED

MMDadoda
 5/3/2019 11:19:37 AM

Quant Time: May 03 07:20:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X050119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 02 06:46:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	31766	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	184323	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	161656	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	78200	29.68	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.93%
60) 4-Bromofluorobenzene	11.13	95	79827	29.06	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.87%
63) Toluene-d8	8.71	98	234039	30.54	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	4063	2.407 ug/l	98
3) Chloromethane	1.32	50	5634	2.483 ug/l	100
4) Vinyl Chloride	1.40	62	5406	2.388 ug/l	99
5) Bromomethane	1.64	94	3331	2.322 ug/l	89
6) Chloroethane	1.72	64	3393	2.286 ug/l	88
7) Trichlorofluoromethane	1.93	101	6787	2.428 ug/l	97
8) Diethyl Ether	2.18	74	3181	2.451 ug/l	94
9) 1,1,2-Trichlorotrifluoroet	2.38	101	4581	2.647 ug/l	99
10) 1,1-Dichloroethene	2.37	96	4444	2.558 ug/l	88
11) Methyl Iodide	2.51	142	3447	1.825 ug/l	89
12) Methyl Acetate	2.77	43	8826	2.697 ug/l	93
13) Acrolein	2.29	56	6052	13.483 ug/l	98
14) Acrylonitrile	3.14	53	17295	12.177 ug/l	98
15) Acetone	2.44	58	5280	12.948 ug/l	95
16) Carbon Disulfide	2.57	76	9915	2.109 ug/l	99
17) Allyl chloride	2.73	41	9644	2.312 ug/l	98
18) Methylene Chloride	2.85	84	5208	2.480 ug/l	89
19) trans-1,2-Dichloroethene	3.16	96	4543	2.452 ug/l	86
20) Diisopropyl ether	3.85	45	20537	2.500 ug/l #	81
21) 1,1-Dichloroethane	3.70	63	9956	2.504 ug/l	97
22) cis-1,2-Dichloroethene	4.59	96	5502	2.466 ug/l	97
23) tert-Butyl Alcohol	3.04	59	7225m	12.031 ug/l	
24) Methyl tert-Butyl Ether	3.19	73	17002	2.500 ug/l #	79
25) Chloroform	5.20	83	9468	2.610 ug/l	90
26) Cyclohexane	5.57	56	9138	2.466 ug/l #	97
29) 1,1-Dichloropropene	5.79	75	6393	2.364 ug/l	85
30) 2-Butanone	4.68	43	25842	12.200 ug/l #	98
31) 2,2-Dichloropropane	4.58	77	7523	2.523 ug/l #	79
32) 1,1,1-Trichloroethane	5.49	97	7358	2.510 ug/l	98
33) Carbon Tetrachloride	5.78	117	5854	2.386 ug/l	94
34) Benzene	6.13	78	21017	2.521 ug/l	97
35) Methacrylonitrile	5.04	41	5676	2.561 ug/l	92
36) 1,2-Dichloroethane	6.18	62	7962	2.632 ug/l	100
37) Trichloroethene	7.21	130	4961	2.472 ug/l	82
38) Methylcyclohexane	7.46	83	8042	2.407 ug/l	98
39) 1,2-Dichloropropane	7.51	63	6178	2.602 ug/l	92
40) Dibromomethane	7.66	93	3294	2.444 ug/l	99

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Quant Time: May 03 07:20:10 2019
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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	6407	2.327	ug/l #	93
42) Vinyl Acetate	3.81	43	81150	11.608	ug/l	100
43) Ethyl Acetate	4.83	43	10014m	2.616	ug/l	
44) Isopropyl Acetate	6.44	43	14448	2.330	ug/l	99
45) 1,4-Dioxane	7.74	88	2899	47.622	ug/l	91
46) Methyl methacrylate	7.77	41	7079	2.287	ug/l	86
47) n-amyl Acetate	10.90	43	12179	2.180	ug/l	98
48) t-1,3-Dichloropropene	9.04	75	6774	2.109	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	7714	2.188	ug/l	96
50) 1,1,2-Trichloroethane	9.21	97	5309	2.571	ug/l	95
51) Ethyl methacrylate	9.18	69	8311	2.178	ug/l	91
52) 1,3-Dichloropropane	9.37	76	9271	2.530	ug/l	99
53) Dibromochloromethane	9.58	129	4589	2.232	ug/l	96
54) 1,2-Dibromoethane	9.67	107	5388	2.544	ug/l	95
55) 2-Chloroethyl vinyl ether	8.31	63	23289	11.454	ug/l	98
56) Bromoform	10.85	173	3216	2.037	ug/l	98
58) 4-Methyl-2-Pentanone	8.64	43	47460	11.940	ug/l	100
59) 2-Hexanone	9.49	43	37255	11.949	ug/l	100
61) Tetrachloroethene	9.34	164	4832	2.711	ug/l	95
62) Toluene	8.78	91	21663	2.508	ug/l	100
64) Chlorobenzene	10.13	112	13466	2.590	ug/l	95
65) 1,1,1,2-Tetrachloroethane	10.22	131	4478	2.352	ug/l	98
66) Ethyl Benzene	10.25	91	23796	2.473	ug/l	99
67) m/p-Xylenes	10.36	106	16877	4.804	ug/l	97
68) o-Xylene	10.69	106	8366	2.422	ug/l	99
69) Styrene	10.71	104	13558	2.236	ug/l	98
70) Isopropylbenzene	11.02	105	22402	2.411	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	8544	2.511	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	7131m	2.432	ug/l	
73) Bromobenzene	11.25	156	5830	2.540	ug/l	96
74) n-propylbenzene	11.36	91	25116	2.333	ug/l	99
75) 2-Chlorotoluene	11.42	91	15886	2.460	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	18763	2.384	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	2273	1.922	ug/l	88
78) 4-Chlorotoluene	11.51	91	17901	2.441	ug/l	99
79) tert-butylbenzene	11.77	119	18526	2.435	ug/l	96
80) 1,2,4-Trimethylbenzene	11.80	105	18518	2.348	ug/l	98
81) sec-Butylbenzene	11.94	105	21801	2.412	ug/l	100
82) p-Isopropyltoluene	12.06	119	19383	2.357	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	9660	2.356	ug/l	98
84) 1,4-Dichlorobenzene	12.10	146	9782	2.395	ug/l	99
85) n-Butylbenzene	12.38	91	16495	2.192	ug/l	98
86) Hexachloroethane	12.60	117	3123	2.232	ug/l	94
87) 1,2-Dichlorobenzene	12.39	146	9988	2.420	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	13.00	75	1821	2.303	ug/l	88
89) 1,2,4-Trichlorobenzene	13.65	180	6191	2.105	ug/l	96
90) Hexachlorobutadiene	13.78	225	3685	2.508	ug/l	97
91) Naphthalene	13.83	128	20040	2.081	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	6835	2.286	ug/l	100

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MDL-MDL-WATER-03-QT2-2019

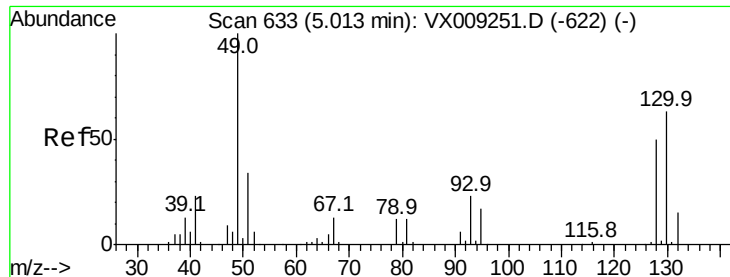
Manual Integrations
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QLast Update : Thu May 02 06:46:57 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



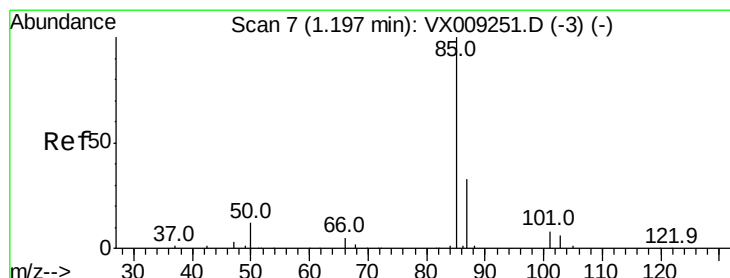
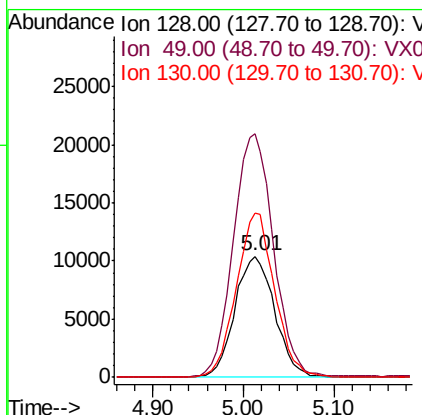
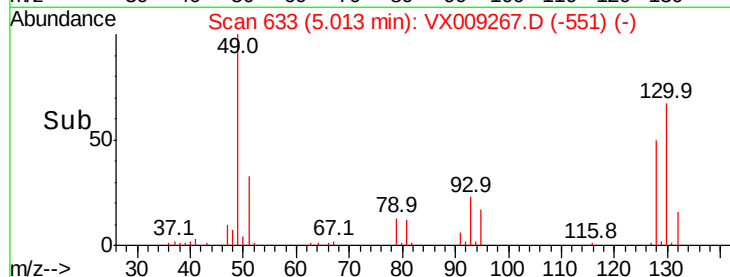
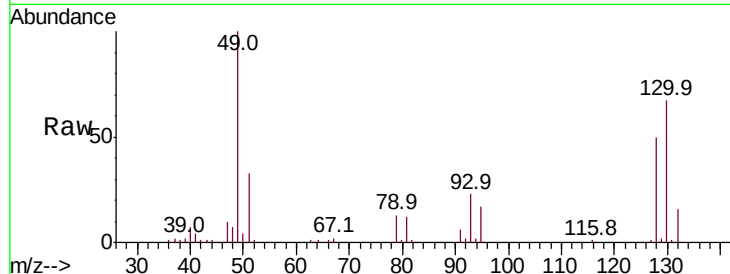
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 5.01 min Scan# 633
Delta R.T. -0.00 min
Lab File: VX009267.D
Acq: 02 May 2019 11:04

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT2-2019

Tot Ion	Ratio	Lower	Upper
128	100		
49	202.8	0.0	515.0
130	130.4	0.0	323.3

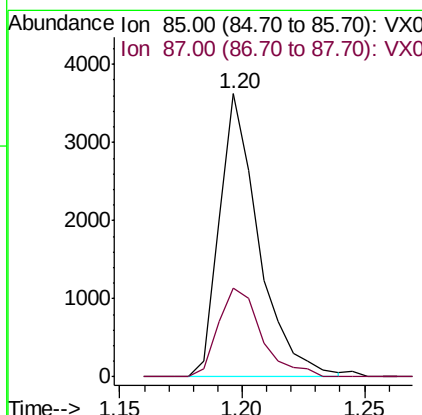
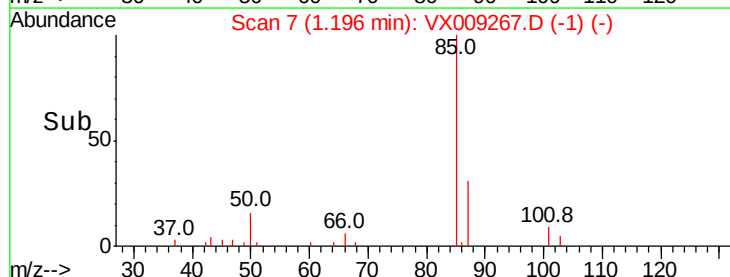
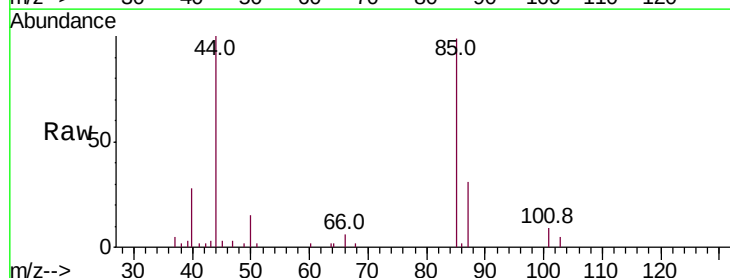
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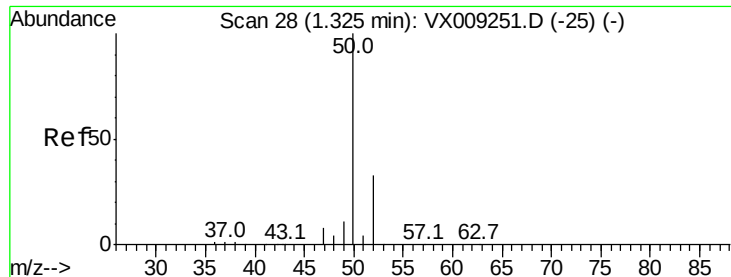
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#2
Dichlorodifluoromethane
Concen: 2.407 ug/l
RT: 1.20 min Scan# 7
Delta R.T. -0.00 min
Lab File: VX009267.D
Acq: 02 May 2019 11:04

Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.5	16.3	48.9





#3

Chloromethane

Concen: 2.483 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 50 Resp: 5634

Ion Ratio Lower Upper

50 100

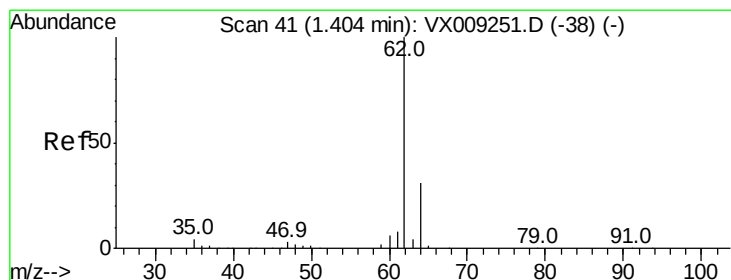
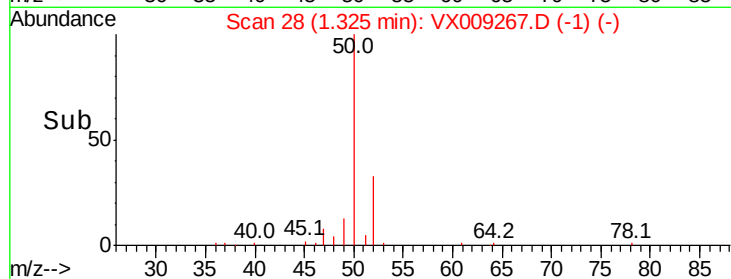
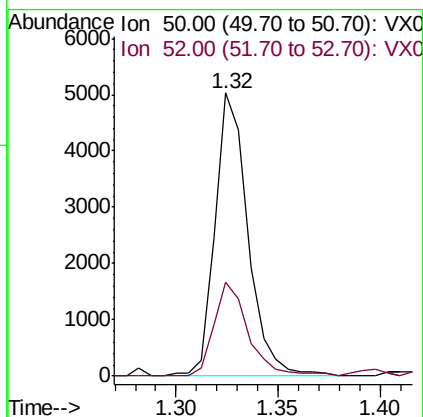
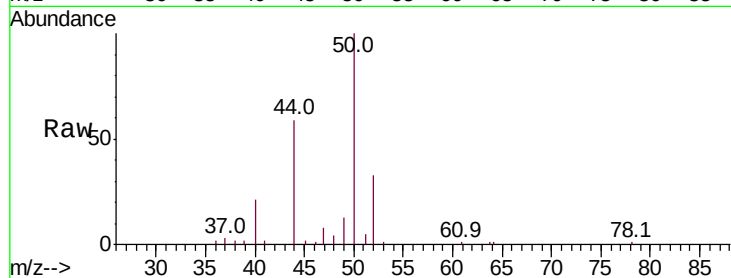
52 33.0 26.3 39.5

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#4

Vinyl Chloride

Concen: 2.388 ug/l

RT: 1.40 min Scan# 41

Delta R.T. -0.00 min

Lab File: VX009267.D

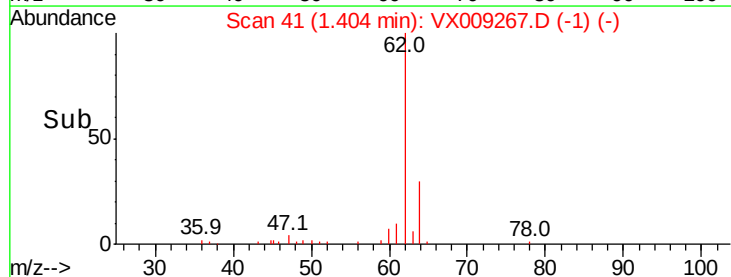
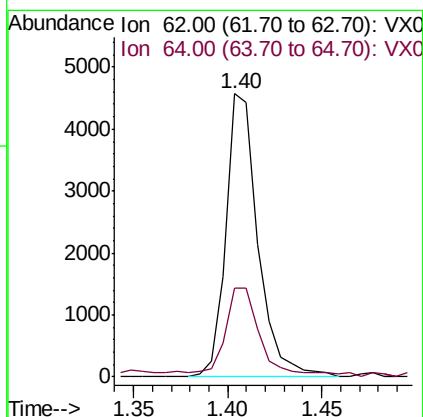
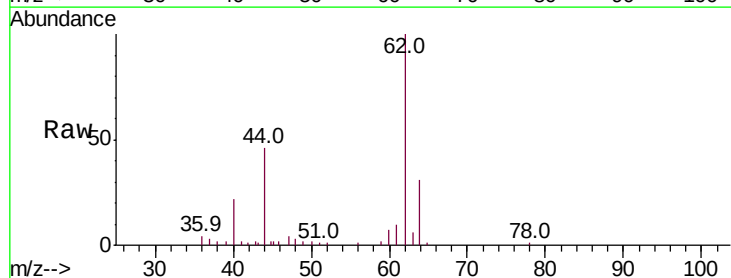
Acq: 02 May 2019 11:04

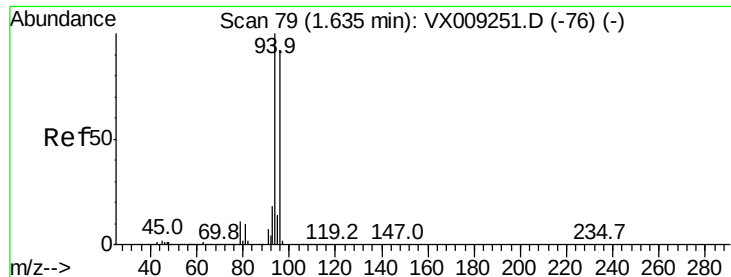
Tgt Ion: 62 Resp: 5406

Ion Ratio Lower Upper

62 100

64 30.2 24.6 36.8





#5

Bromomethane

Concen: 2.322 ug/l

RT: 1.64 min Scan# 79

Delta R.T. -0.00 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 94 Resp: 3331

Ion Ratio Lower Upper

94 100

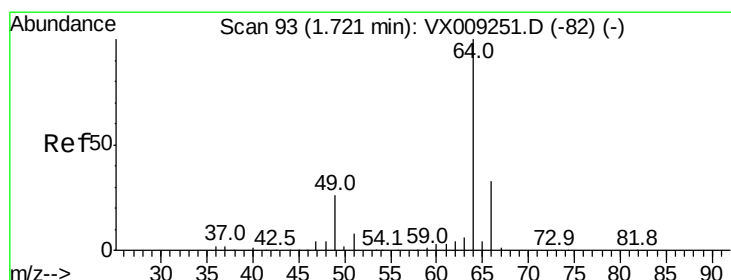
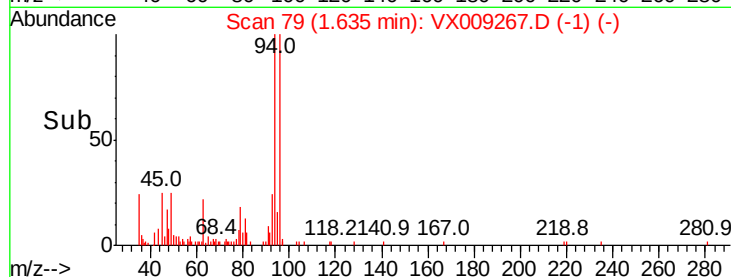
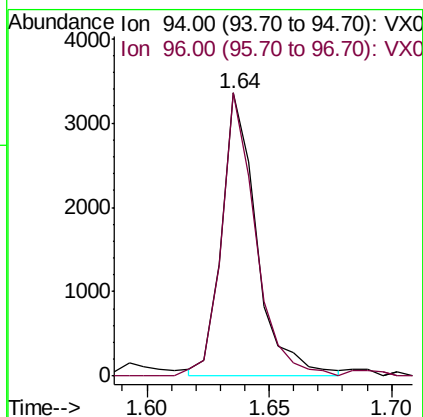
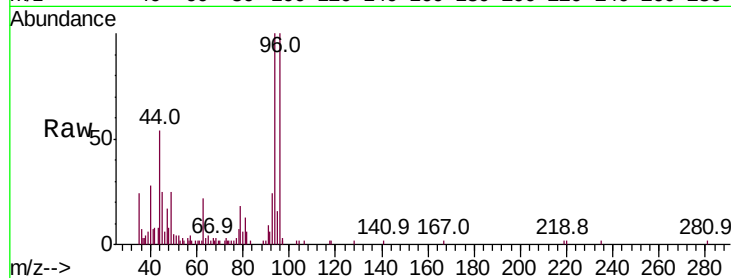
96 102.3 73.5 110.3

Manual Integrations

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#6

Chloroethane

Concen: 2.286 ug/l

RT: 1.72 min Scan# 93

Delta R.T. -0.00 min

Lab File: VX009267.D

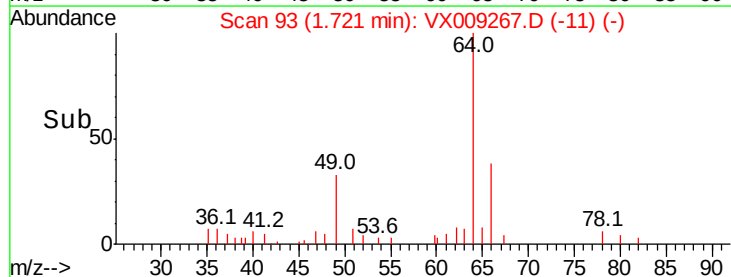
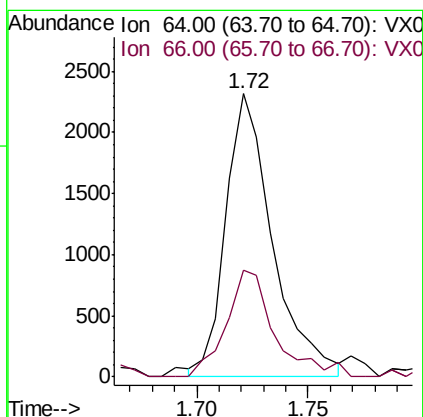
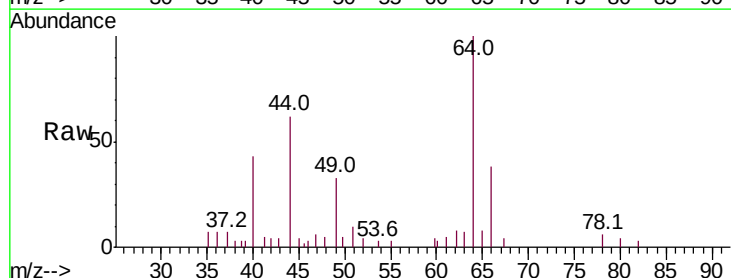
Acq: 02 May 2019 11:04

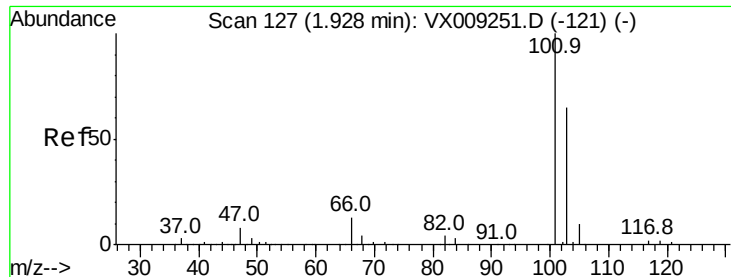
Tgt Ion: 64 Resp: 3393

Ion Ratio Lower Upper

64 100

66 38.9 25.9 38.9





#7

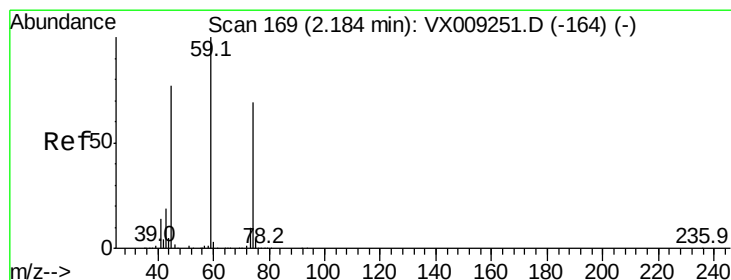
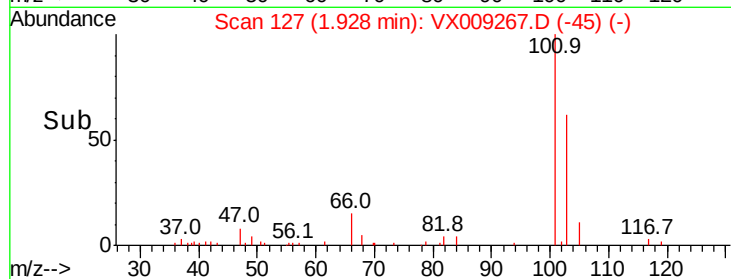
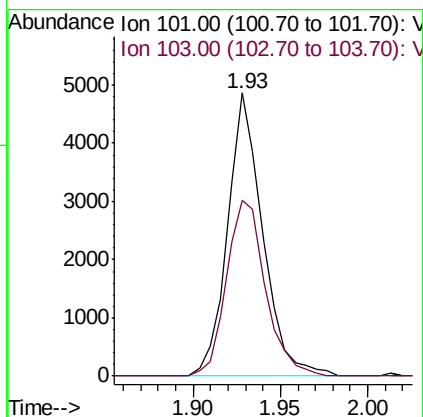
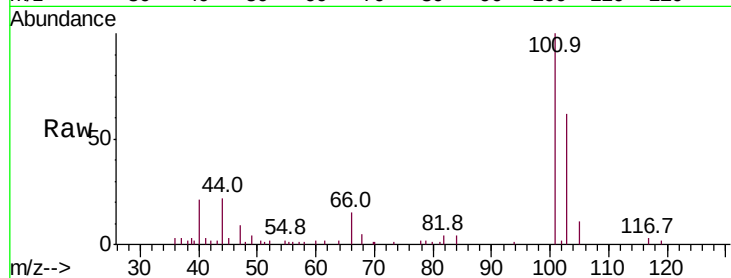
Trichlorofluoromethane
Concen: 2.428 ug/l
RT: 1.93 min Scan# 127
Delta R.T. -0.00 min
Lab File: VX009267.D
Acq: 02 May 2019 11:04

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT2-2019

Tot Ion	Ratio	Lower	Upper
101	100		
103	62.2	51.9	77.9

Manual Integrations
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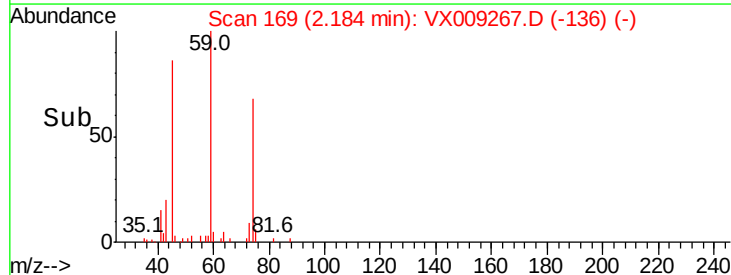
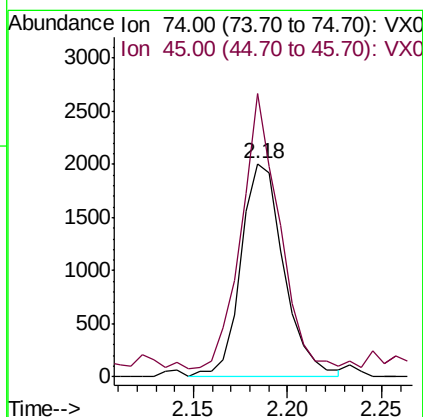
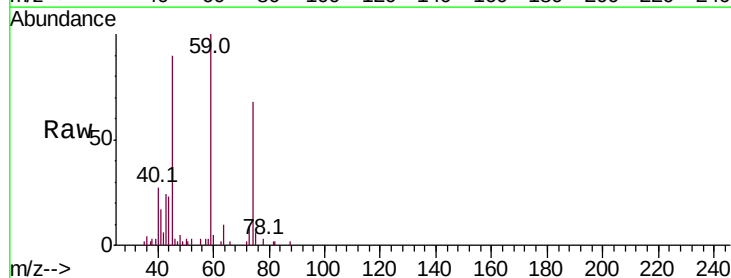
MMDadoda
5/3/2019 11:19:37 AM

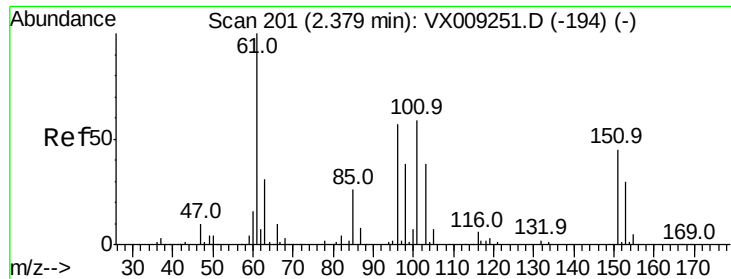


#8

Diethyl Ether
Concen: 2.451 ug/l
RT: 2.18 min Scan# 169
Delta R.T. -0.00 min
Lab File: VX009267.D
Acq: 02 May 2019 11:04

Tgt Ion	Ratio	Lower	Upper
74	100		
45	113.6	21.5	193.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.647 ug/l

RT: 2.38 min Scan# 201

Delta R.T. -0.00 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

Instrument :

MSVOA_X

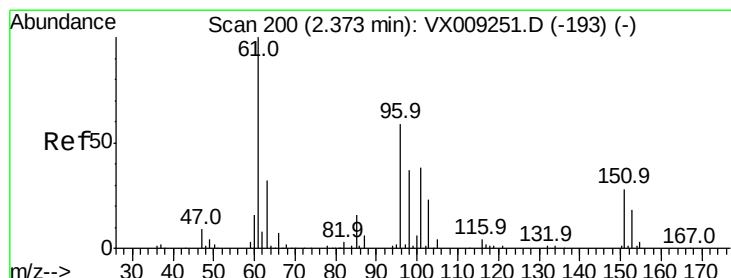
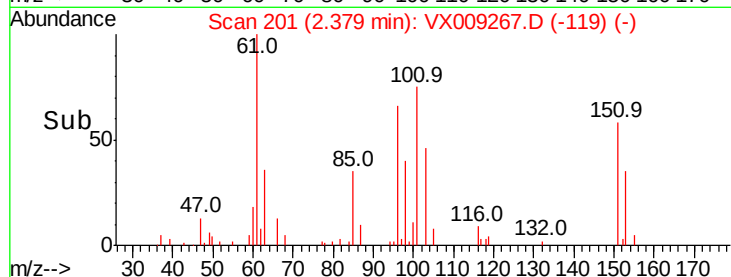
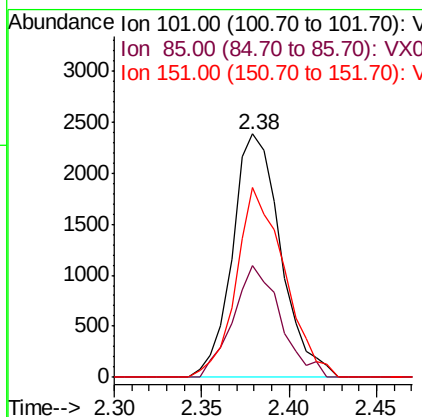
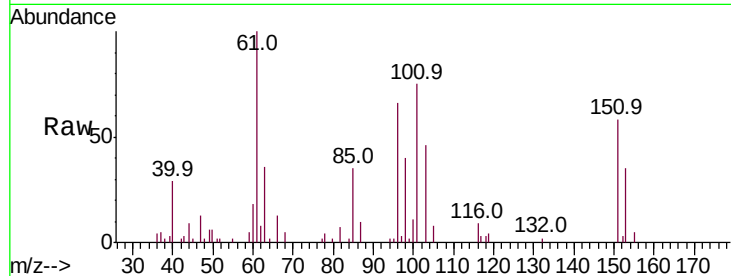
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:	101	Resp:	4581
Ion Ratio	Lower	Upper	
101	100		
85	45.3	0.0	87.4
151	78.0	0.0	157.0

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MMDadoda
5/3/2019 11:19:37 AM



#10

1,1-Dichloroethene

Concen: 2.558 ug/l

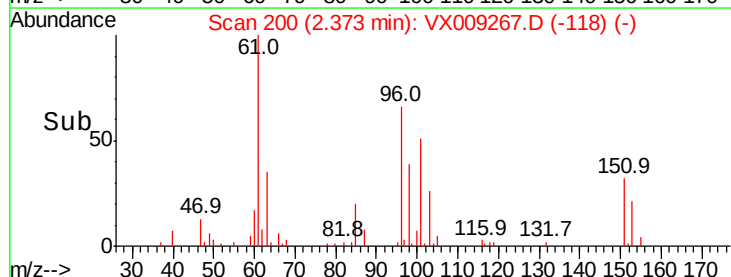
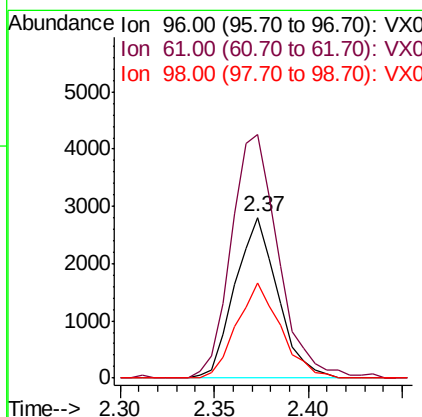
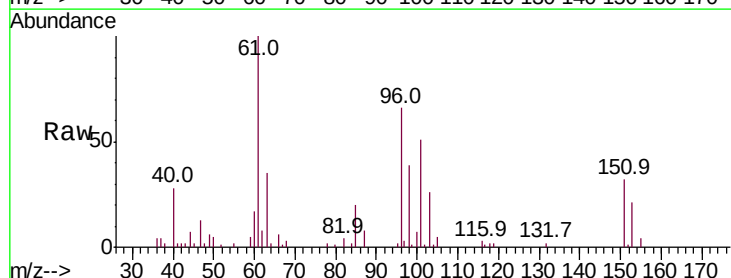
RT: 2.37 min Scan# 200

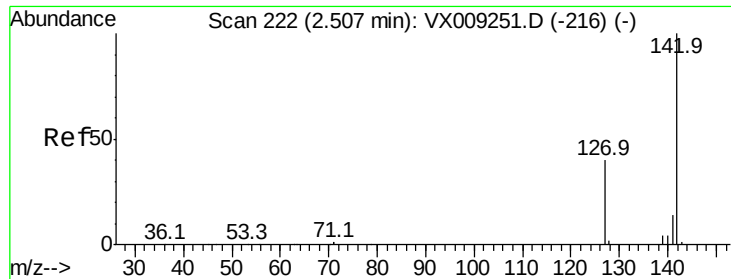
Delta R.T. -0.00 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

Tgt Ion:	96	Resp:	4444
Ion Ratio	Lower	Upper	
96	100		
61	151.3	136.5	204.7
98	58.9	51.0	76.4





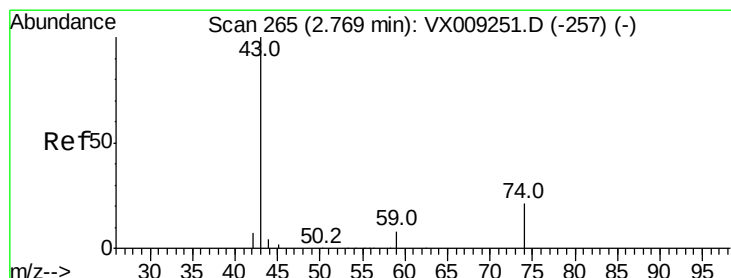
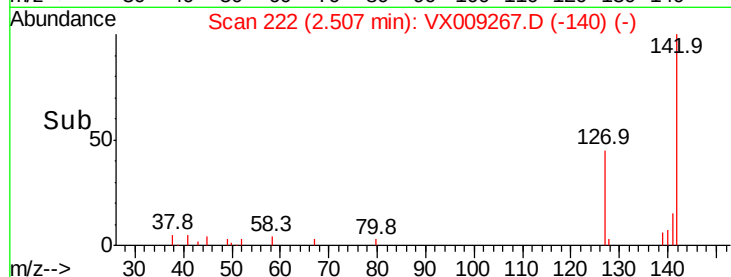
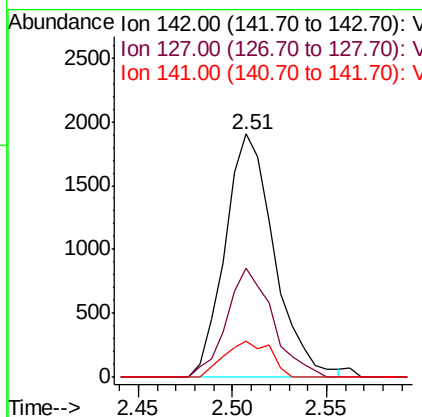
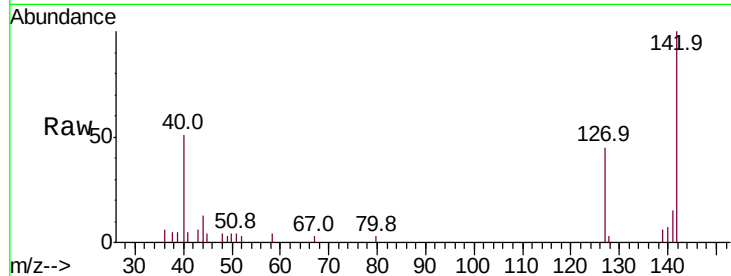
#11
Methvl Iodide
Concen: 1.825 ug/l
RT: 2.51 min Scan# 222
Delta R.T. -0.00 min
Lab File: VX009267.D
Acq: 02 May 2019 11:04

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT2-2019

Tot Ion	Ratio	Lower	Upper
142	100		
127	48.8	20.2	60.5
141	14.9	6.9	20.7

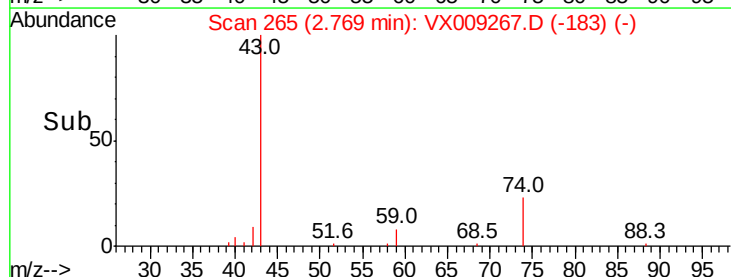
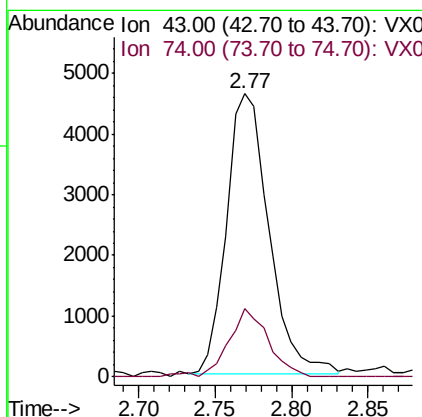
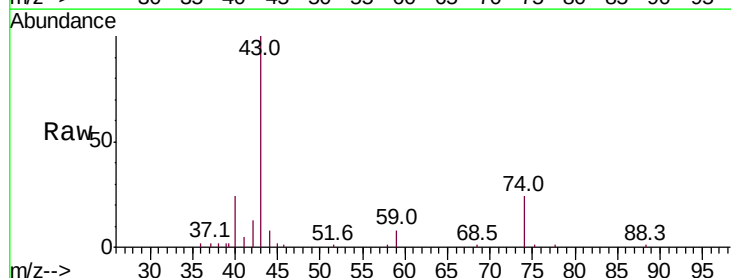
Manual Integrations
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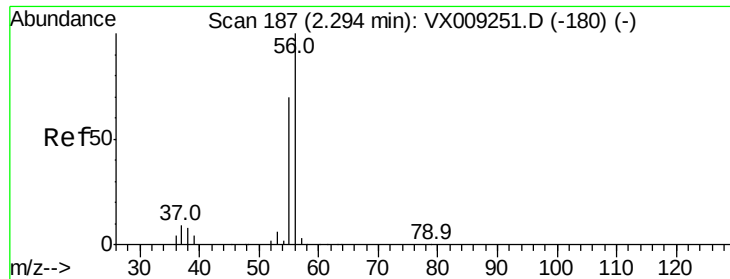
MMDadoda
5/3/2019 11:19:37 AM



#12
Methyl Acetate
Concen: 2.697 ug/l
RT: 2.77 min Scan# 265
Delta R.T. -0.00 min
Lab File: VX009267.D
Acq: 02 May 2019 11:04

Tgt Ion	Ratio	Lower	Upper
43	100		
74	23.7	16.5	24.7





#13

Acrolein

Concen: 13.483 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 56 Resp: 6052

Ion Ratio Lower Upper

56 100

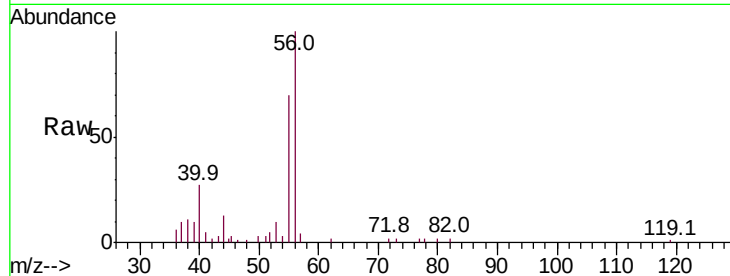
55 72.6 56.9 85.3

Manual Integrations

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Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

2.29

4000

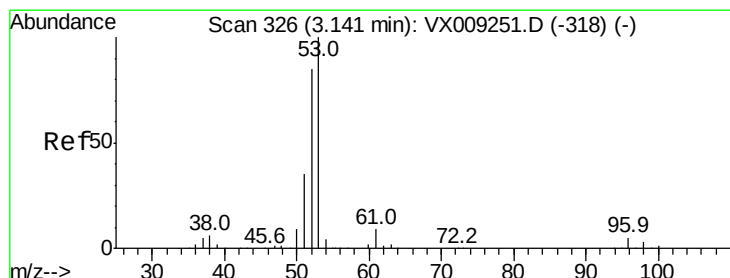
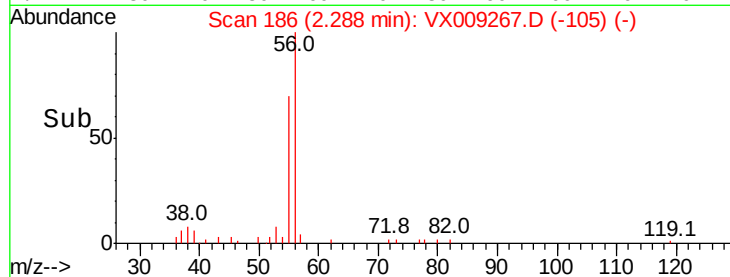
3000

2000

1000

0

Time-->



#14

Acrylonitrile

Concen: 12.177 ug/l

RT: 3.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

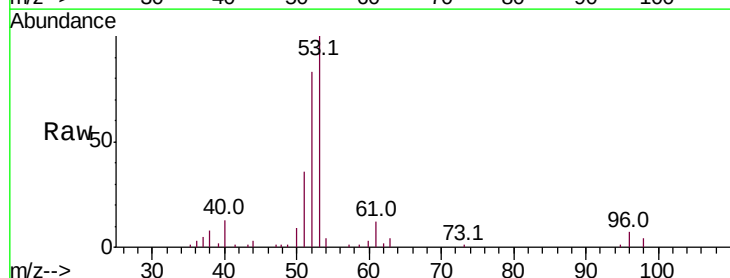
Tgt Ion: 53 Resp: 17295

Ion Ratio Lower Upper

53 100

52 84.9 41.5 124.5

51 36.1 17.8 53.3



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0

10000

8000

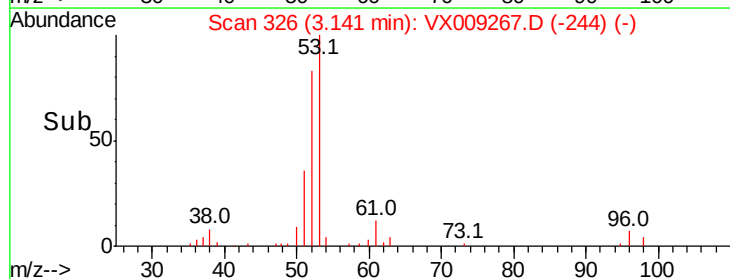
6000

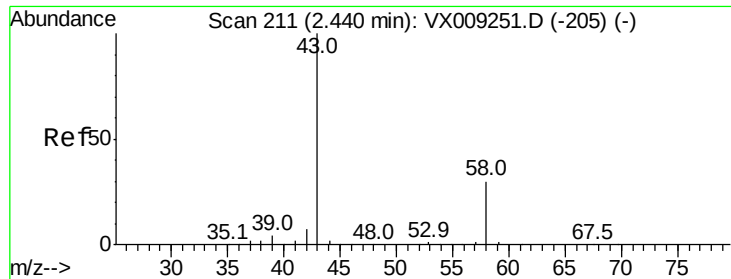
4000

2000

0

Time-->





#15

Acetone

Concen: 12.948 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.00 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 58 Resp: 5280

Ion Ratio Lower Upper

58 100

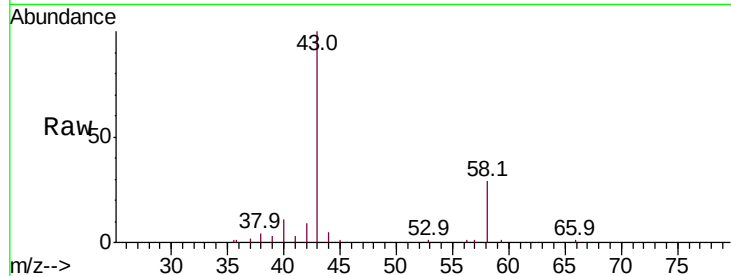
43 339.8 264.0 396.0

Manual Integrations

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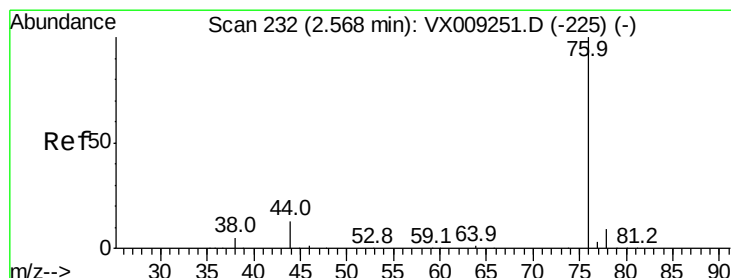
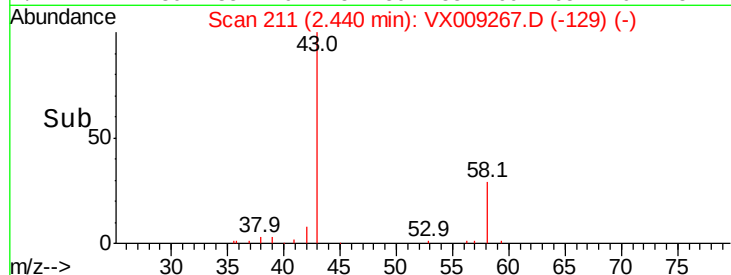
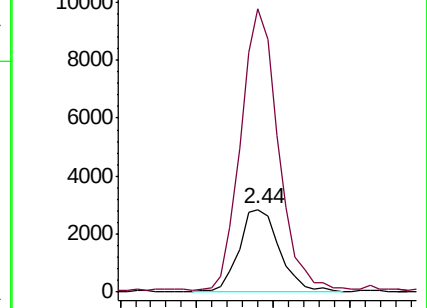
MMDadoda

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Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0



#16

Carbon Disulfide

Concen: 2.109 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX009267.D

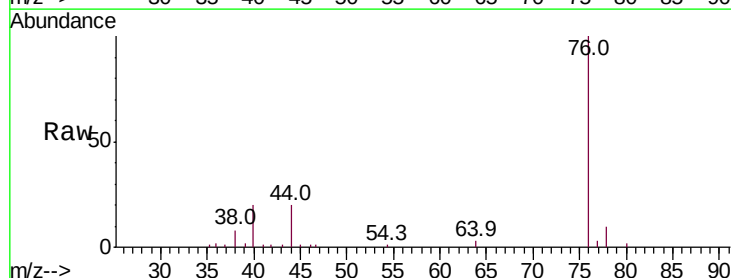
Acq: 02 May 2019 11:04

Tgt Ion: 76 Resp: 9915

Ion Ratio Lower Upper

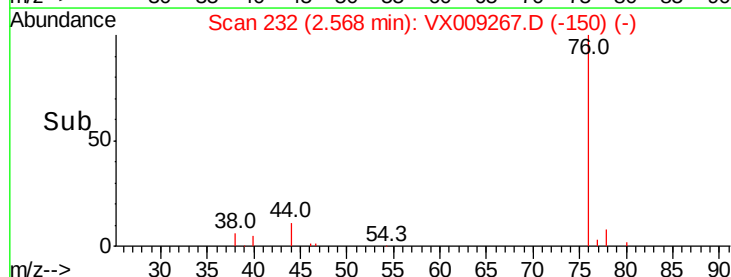
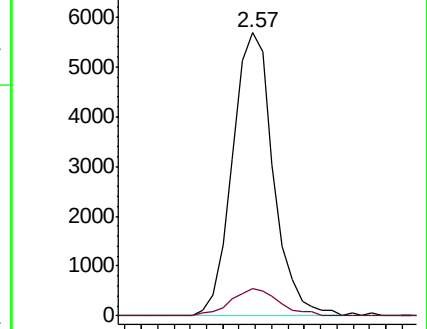
76 100

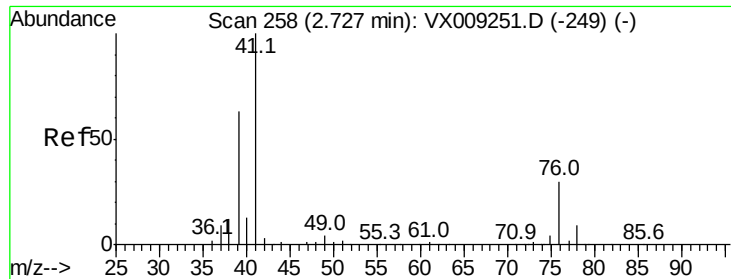
78 9.7 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0





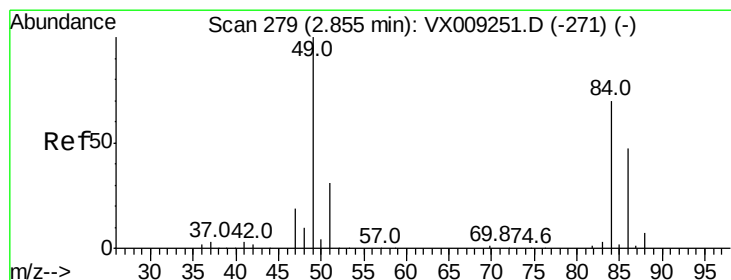
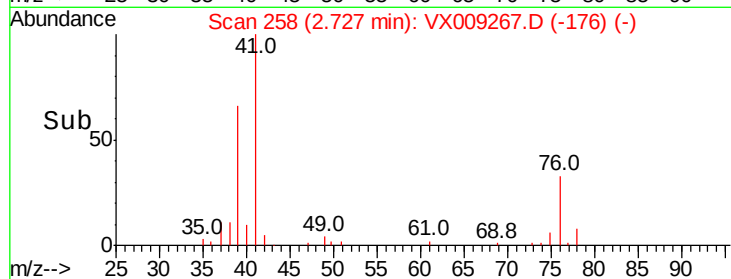
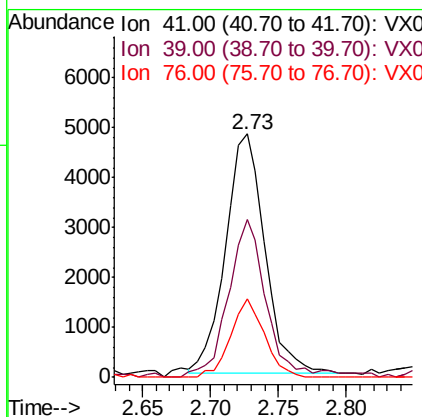
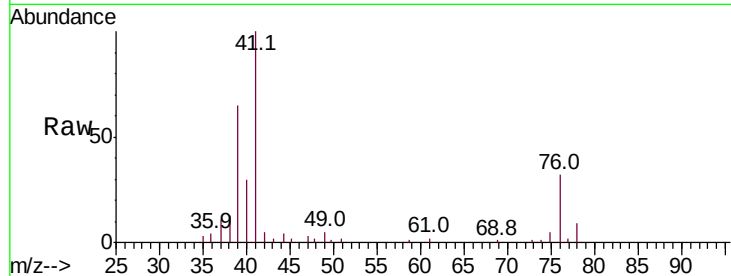
#17
Allvl chloride
Concen: 2.312 ug/l
RT: 2.73 min Scan# 258
Delta R.T. -0.00 min
Lab File: VX009267.D
Acq: 02 May 2019 11:04

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT2-2019

Tot Ion:	41	Resp:	9644
Ion	Ratio	Lower	Upper
41	100		
39	63.9	31.6	94.7
76	32.7	15.1	45.3

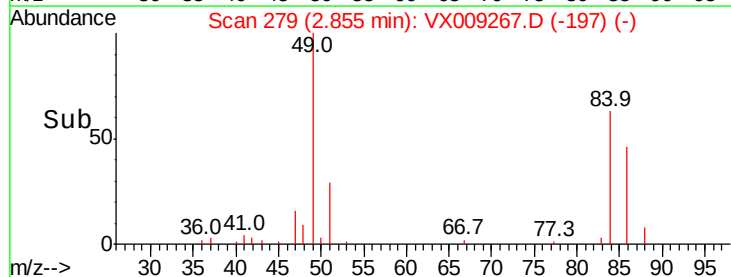
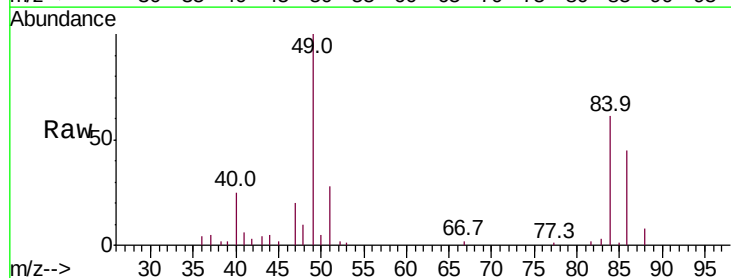
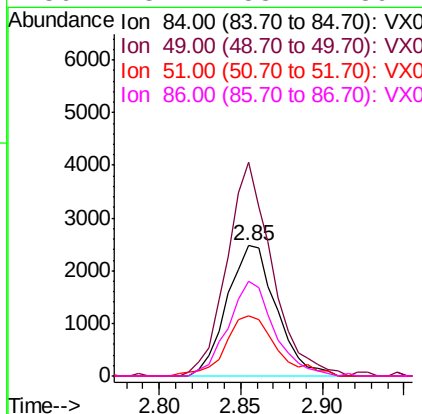
Manual Integrations
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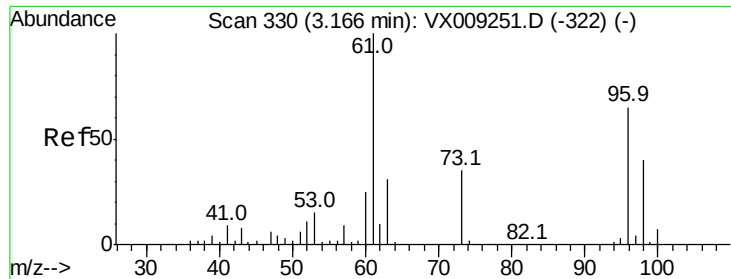
MMDadoda
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#18
Methylene Chloride
Concen: 2.480 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX009267.D
Acq: 02 May 2019 11:04

Tgt Ion:	84	Resp:	5208
Ion	Ratio	Lower	Upper
84	100		
49	160.9	114.6	171.8
51	46.0	35.5	53.3
86	73.1	53.4	80.2





#19

trans-1,2-Dichloroethene

Concen: 2.452 ug/l

RT: 3.16 min Scan# 329

Delta R.T. -0.01 min

Lab File: VX009267.D

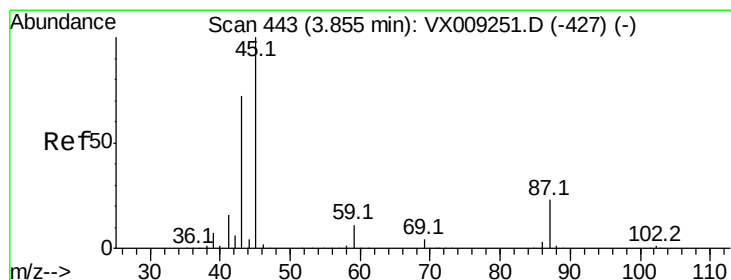
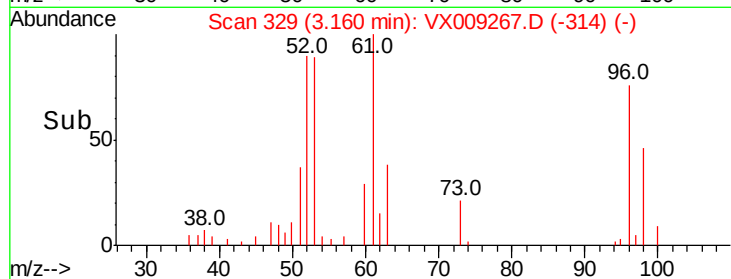
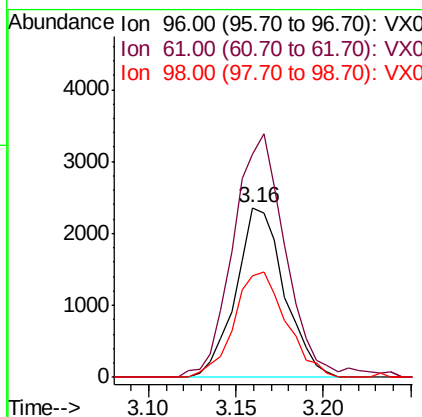
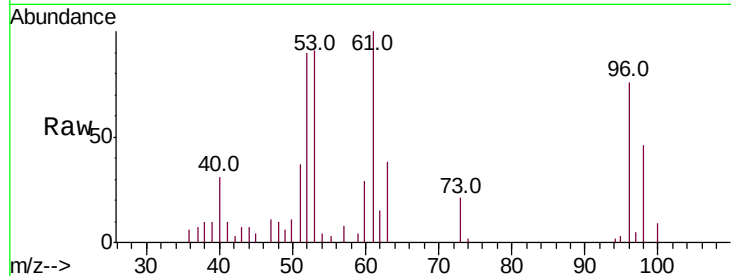
Acq: 02 May 2019 11:04

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT2-2019

Tot Ion	Ratio	Lower	Upper
96	100		
61	128.6	122.7	184.1
98	60.1	49.5	74.3

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MMDadoda
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#20

Diisopropyl ether

Concen: 2.500 ug/l

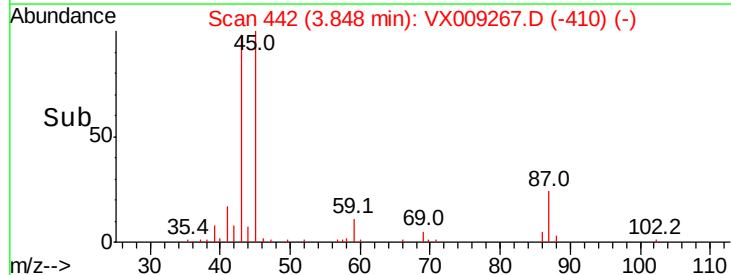
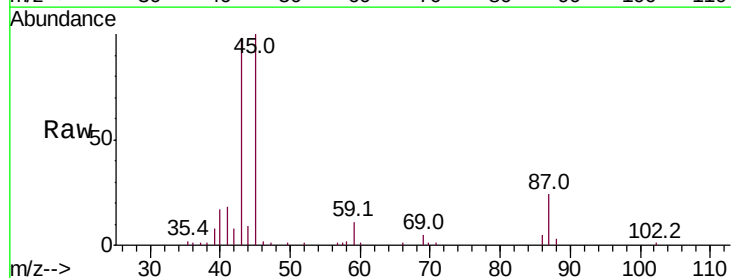
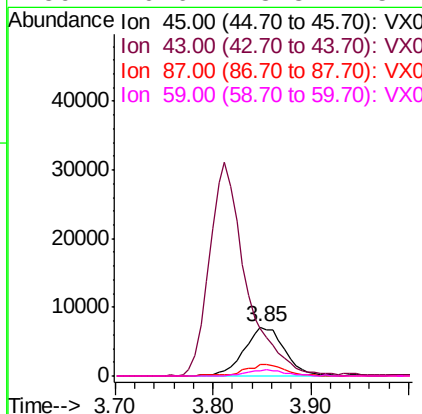
RT: 3.85 min Scan# 442

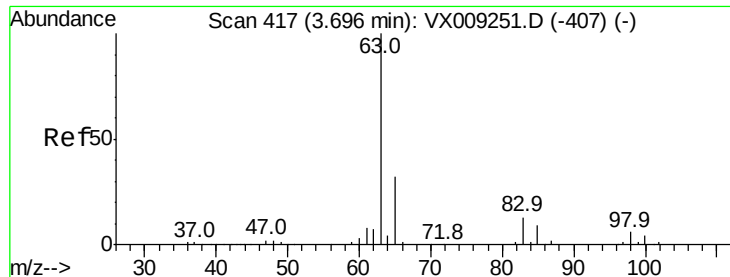
Delta R.T. -0.01 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

Tgt Ion	Ratio	Lower	Upper
45	100		
43	94.6	57.7	86.5#
87	23.9	18.5	27.7
59	10.6	8.8	13.2





#21

1,1-Dichloroethane

Concen: 2.504 ug/l

RT: 3.70 min Scan# 417

Delta R.T. -0.00 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

Instrument :

MSVOA_X

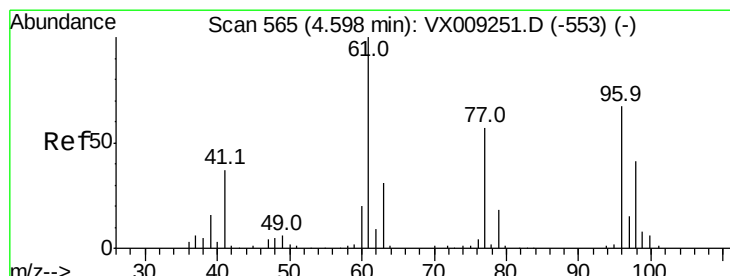
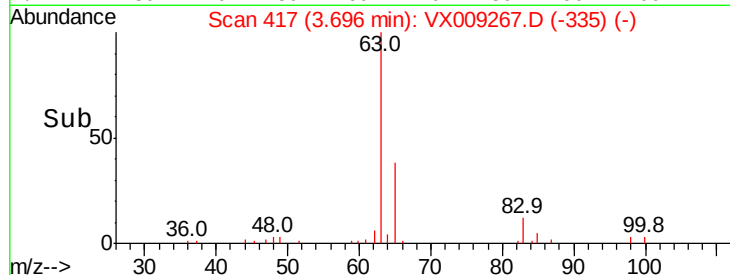
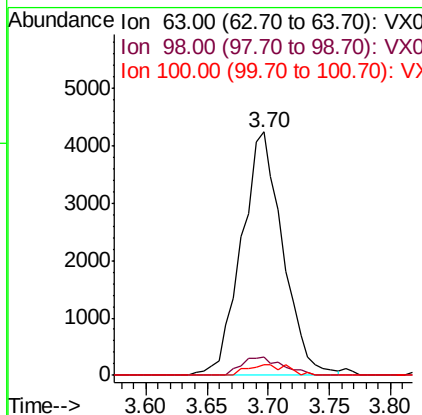
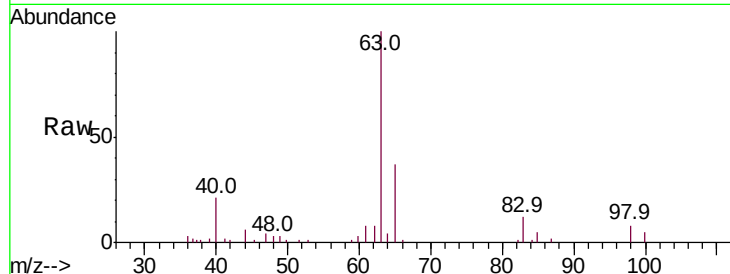
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:	63	Resp:	9956
Ion	Ratio	Lower	Upper
63	100		
98	7.6	3.1	9.3
100	4.6	2.2	6.6

Manual Integrations
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#22

cis-1,2-Dichloroethene

Concen: 2.466 ug/l

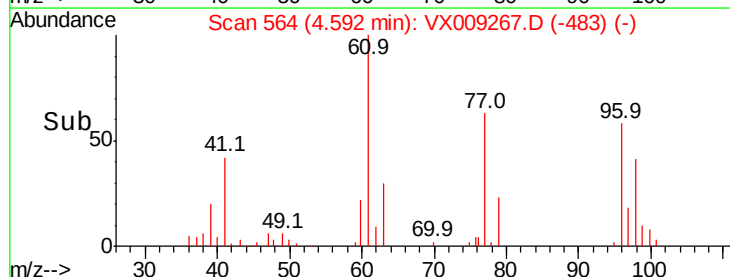
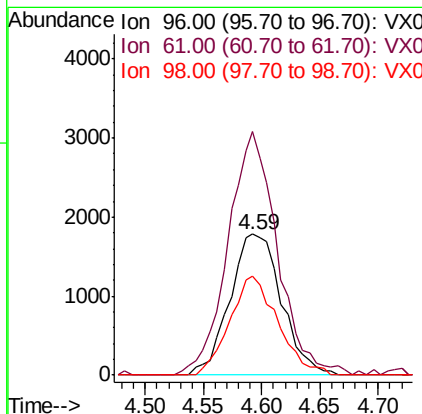
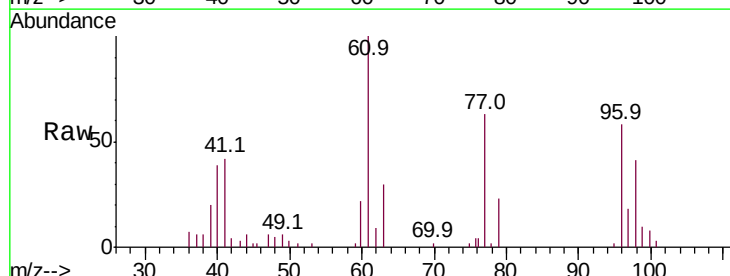
RT: 4.59 min Scan# 564

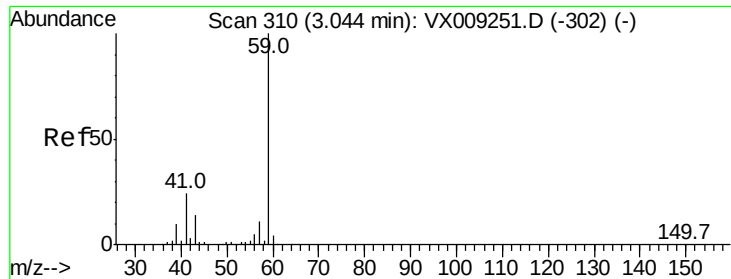
Delta R.T. -0.01 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

Tgt Ion:	96	Resp:	5502
Ion	Ratio	Lower	Upper
96	100		
61	163.6	127.7	191.5
98	65.4	50.5	75.7





#23

tert-Butyl Alcohol

Concen: 12.031 ug/l

RT: 3.04 min Scan# 310

Delta R.T. -0.00 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 59 Resp: 7225

Ion Ratio Lower Upper

59 100

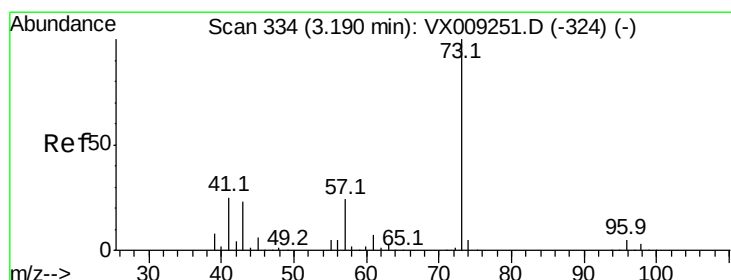
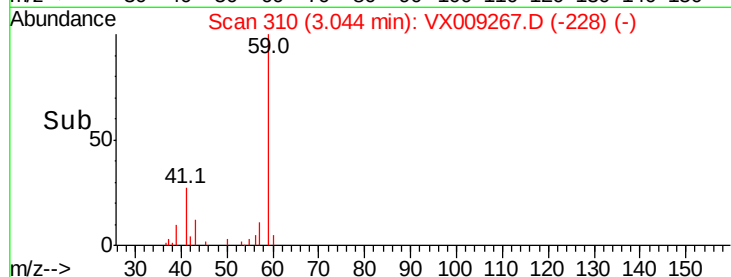
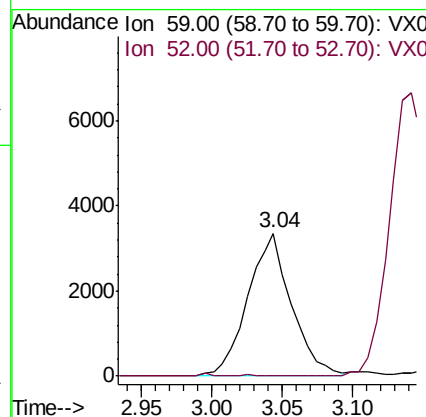
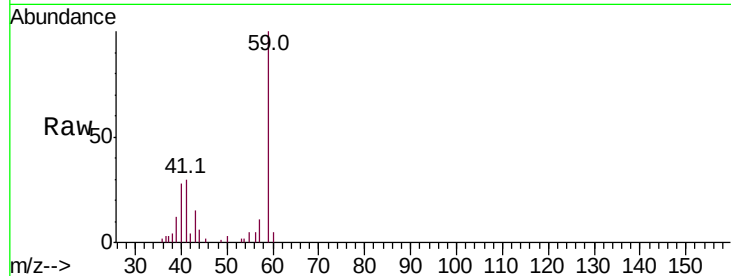
52 0.0 0.2 0.2#

Manual Integrations

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#24

Methyl tert-Butyl Ether

Concen: 2.500 ug/l

RT: 3.19 min Scan# 334

Delta R.T. -0.00 min

Lab File: VX009267.D

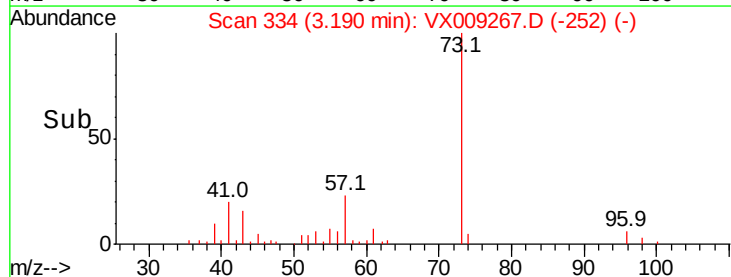
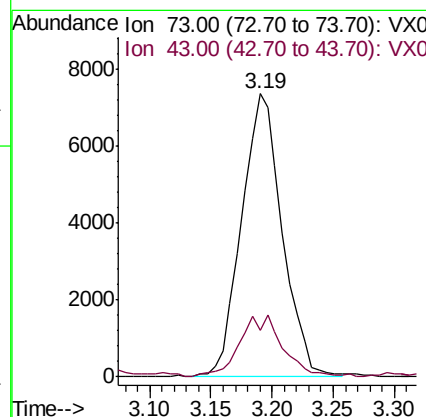
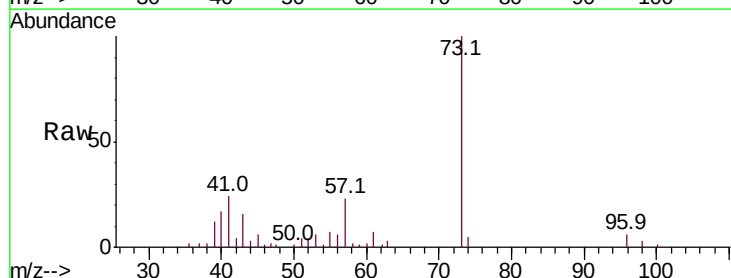
Acq: 02 May 2019 11:04

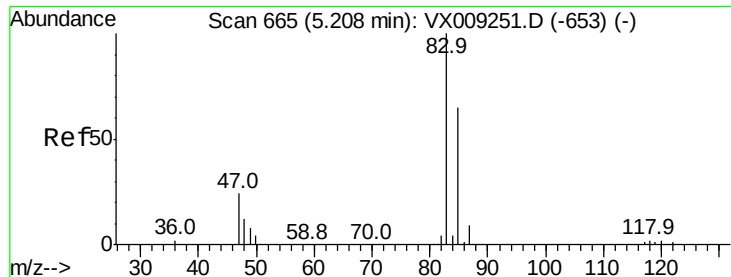
Tgt Ion: 73 Resp: 17002

Ion Ratio Lower Upper

73 100

43 12.1 17.6 26.4#





#25

Chloroform

Concen: 2.610 ug/l

RT: 5.20 min Scan# 664

Delta R.T. -0.01 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 83 Resp: 9468

Ion Ratio Lower Upper

83 100

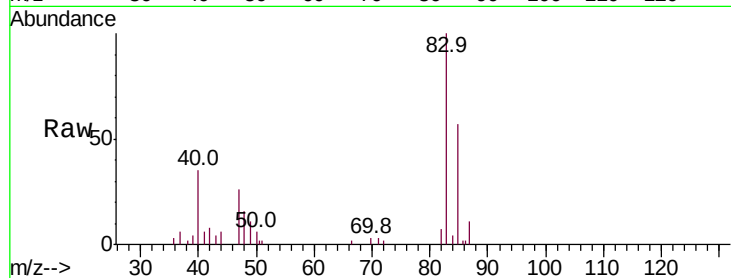
85 56.8 51.9 77.9

Manual Integrations

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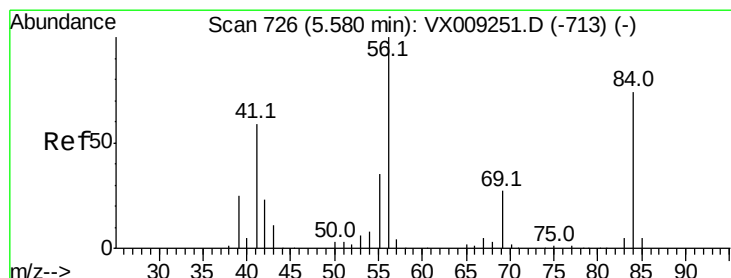
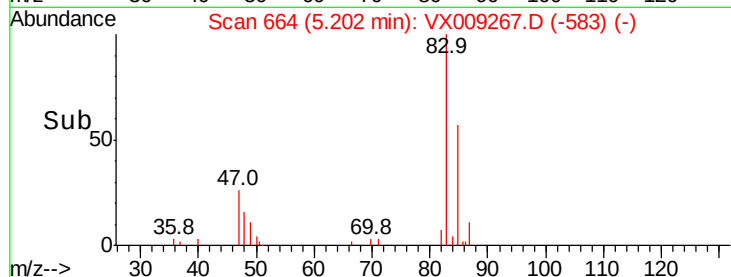
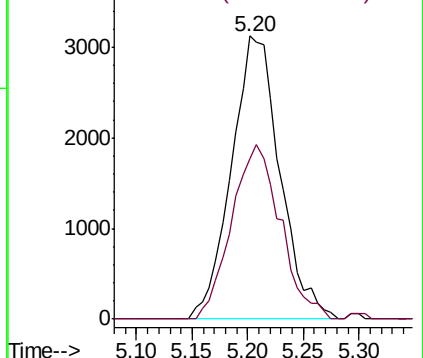
MMDadoda

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Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0



#26

Cyclohexane

Concen: 2.466 ug/l

RT: 5.57 min Scan# 725

Delta R.T. -0.01 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

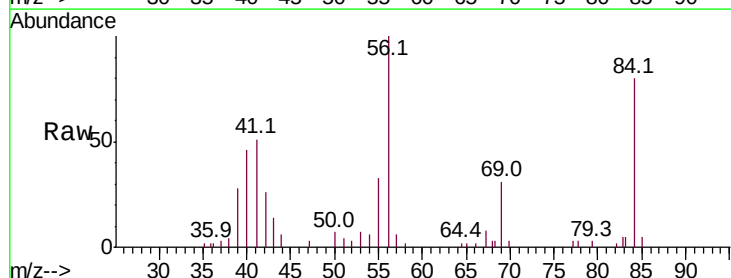
Tgt Ion: 56 Resp: 9138

Ion Ratio Lower Upper

56 100

89 0.0 0.0 0.0

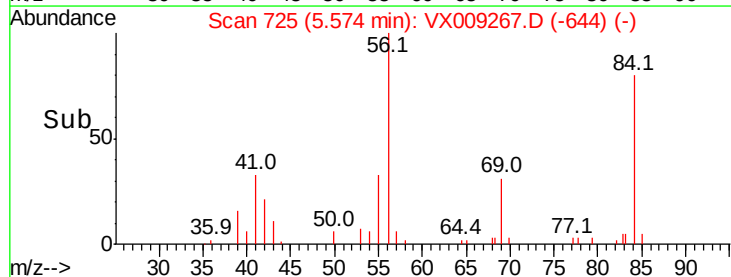
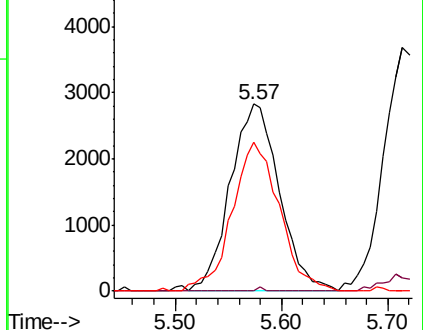
84 76.9 59.7 89.5

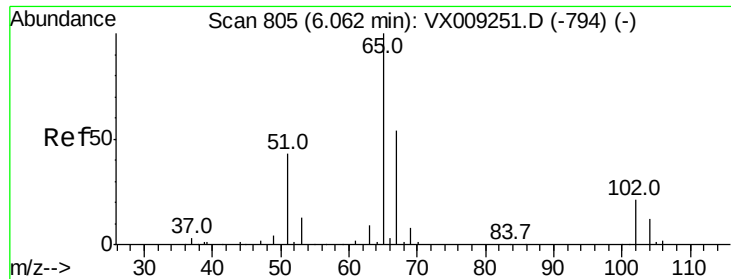


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 89.00 (88.70 to 89.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#27

1,2-Dichloroethane-d4

Concen: 29.676 ug/l

RT: 6.06 min Scan# 804

Delta R.T. -0.01 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

Tot Ion: 65 Resp: 78200

Ion Ratio Lower Upper

65 100

67 53.7 43.1 64.7

Instrument :

MSVOA_X

ClientSampleId :

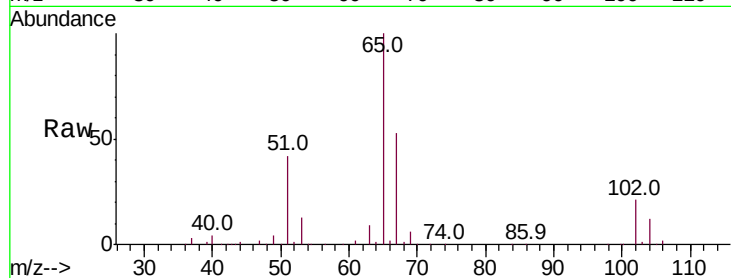
MDL-MDL-WATER-03-QT2-2019

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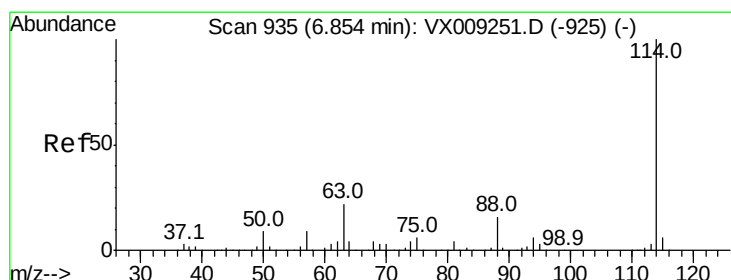
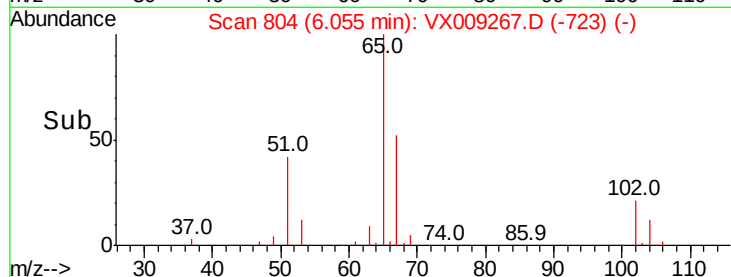
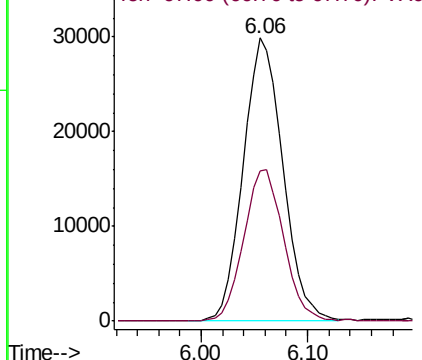
MMDadoda

5/3/2019 11:19:37 AM



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. -0.00 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

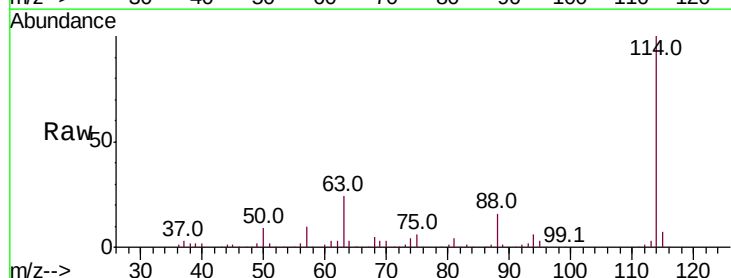
Tgt Ion:114 Resp: 184323

Ion Ratio Lower Upper

114 100

63 23.3 18.0 27.0

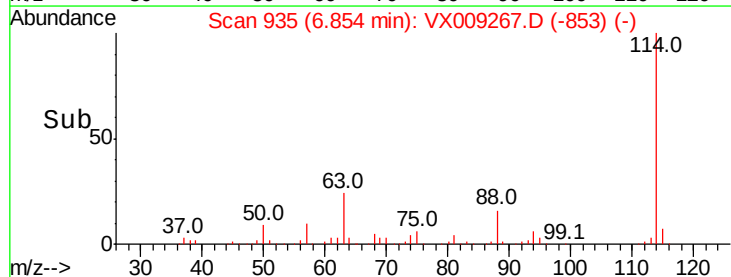
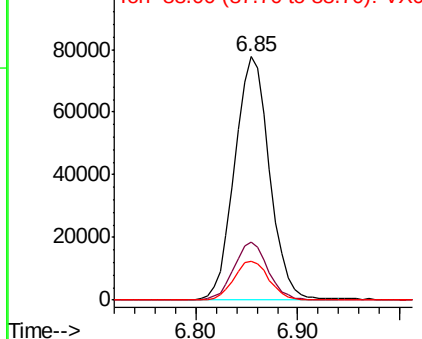
88 16.3 13.4 20.0

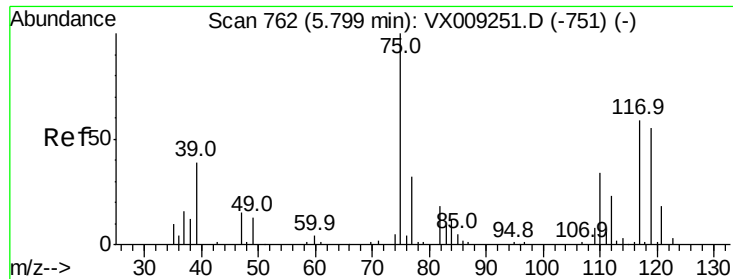


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0





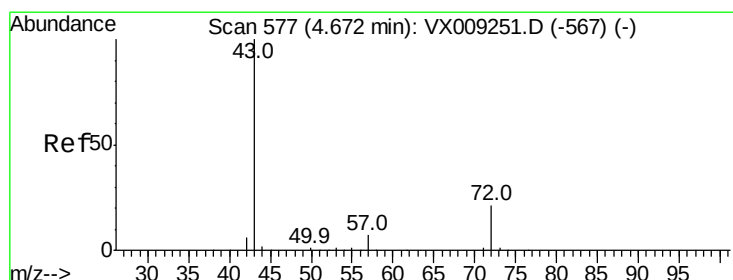
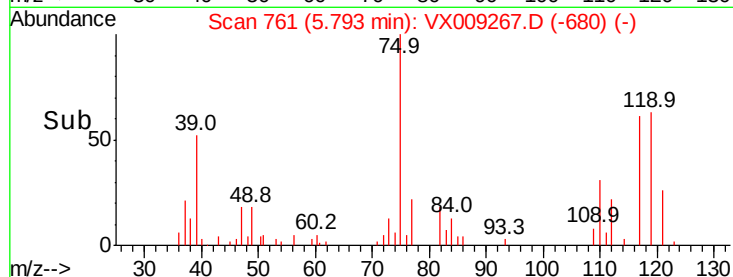
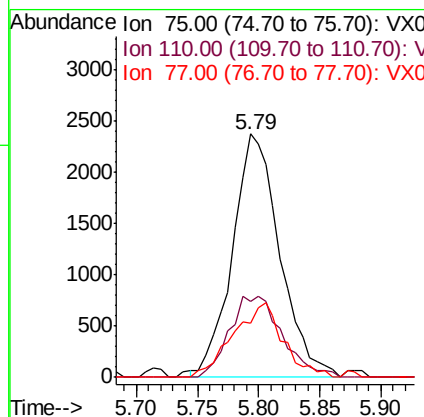
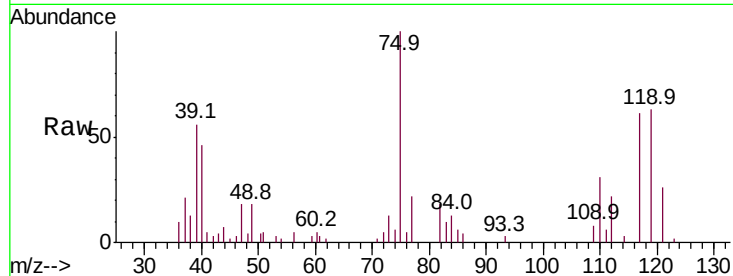
#29
 1,1-Dichloropropene
 Concen: 2.364 ug/l
 RT: 5.79 min Scan# 761
 Delta R.T. -0.01 min
 Lab File: VX009267.D
 Acq: 02 May 2019 11:04

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT2-2019

Tot Ion	Ratio	Lower	Upper
75	100		
110	17.0	0.0	66.4
77	31.1	0.0	62.2

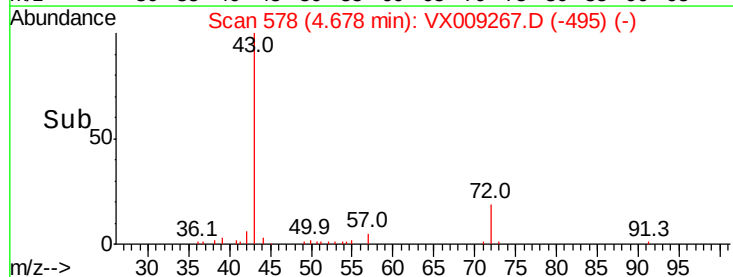
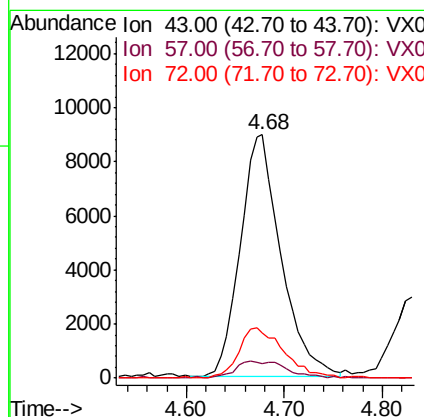
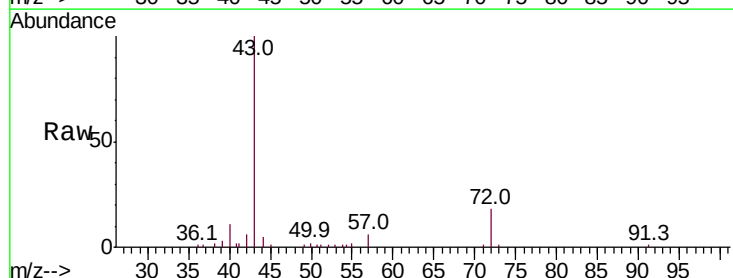
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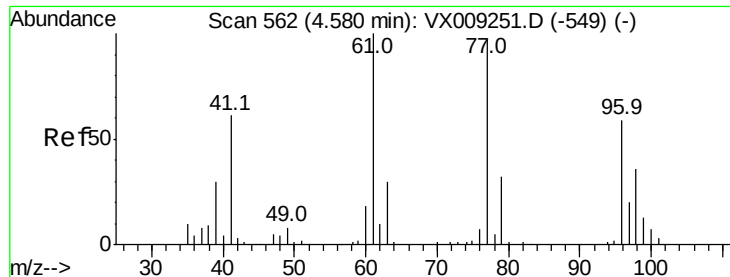
MMDadoda
 5/3/2019 11:19:37 AM



#30
 2-Butanone
 Concen: 12.200 ug/l
 RT: 4.68 min Scan# 578
 Delta R.T. 0.01 min
 Lab File: VX009267.D
 Acq: 02 May 2019 11:04

Tgt Ion	Ratio	Lower	Upper
43	100		
57	4.6	6.0	9.0#
72	23.0	18.2	27.4





#31

2,2-Dichloropropane

Concen: 2.523 ug/l

RT: 4.58 min Scan# 562

Delta R.T. -0.00 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 77 Resp: 7523

Ion Ratio Lower Upper

77 100

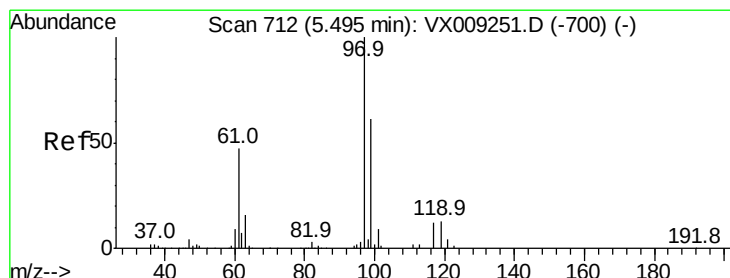
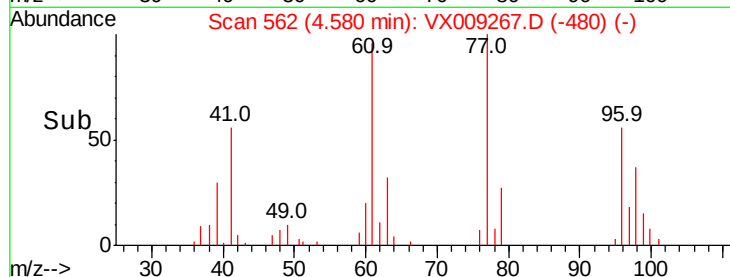
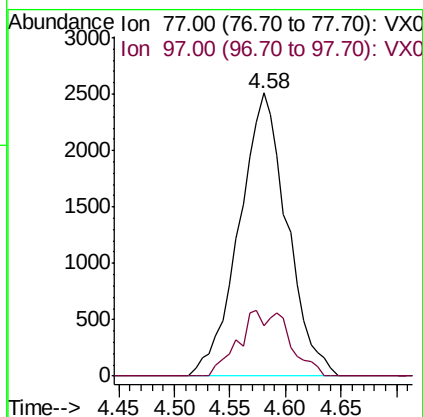
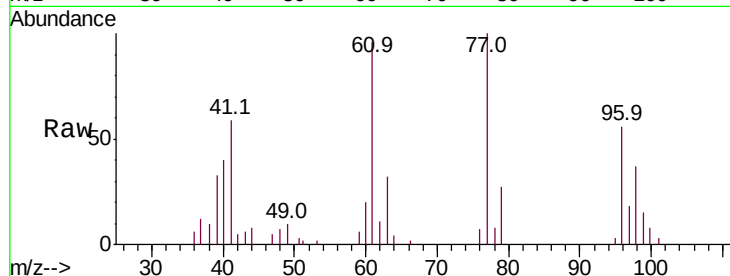
97 12.8 18.3 27.5#

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#32

1,1,1-Trichloroethane

Concen: 2.510 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.00 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

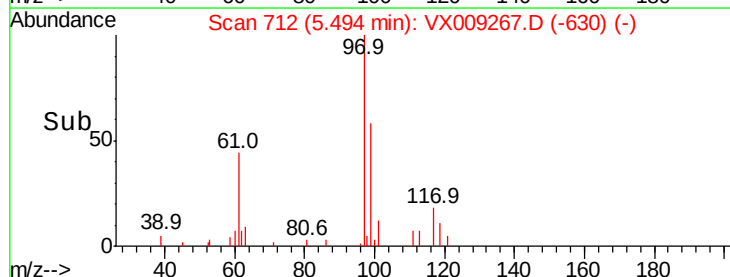
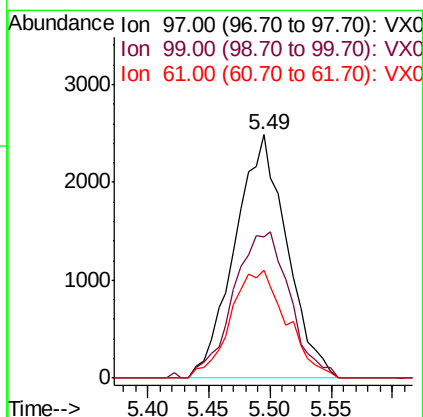
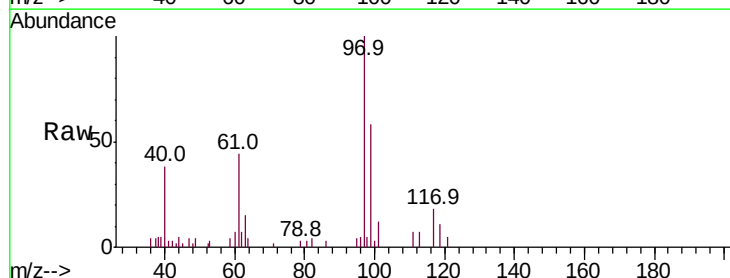
Tgt Ion: 97 Resp: 7358

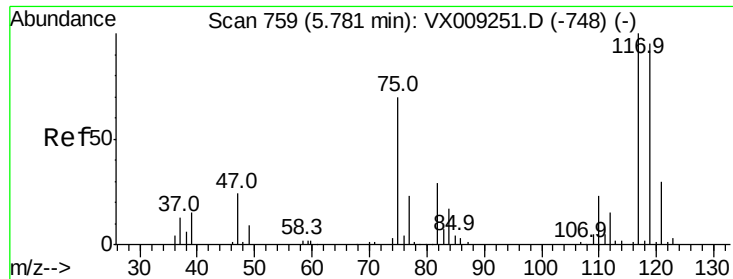
Ion Ratio Lower Upper

97 100

99 64.7 53.9 80.9

61 47.5 38.6 58.0





#33

Carbon Tetrachloride

Concen: 2.386 ug/l

RT: 5.78 min Scan# 759

Delta R.T. -0.00 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

Instrument :

MSVOA_X

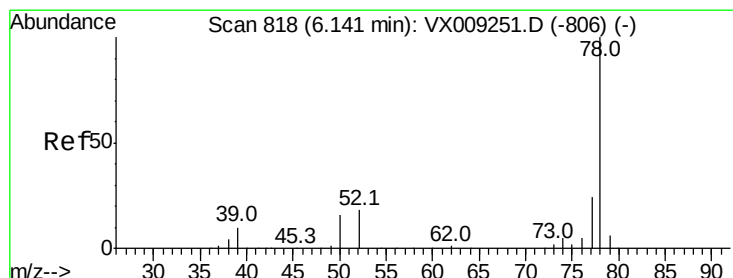
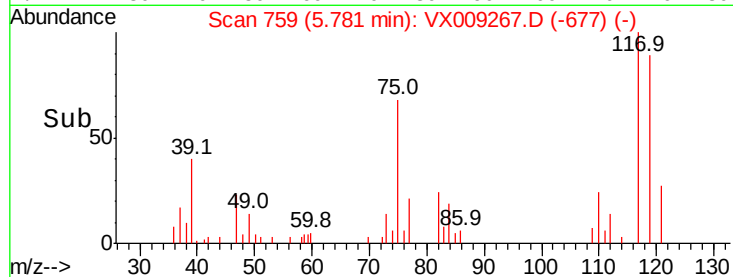
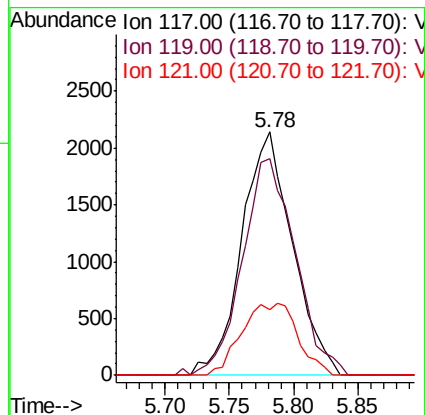
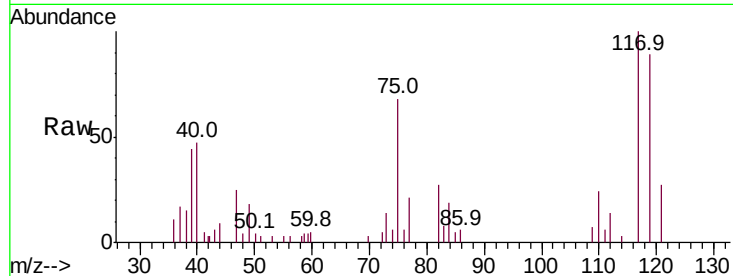
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:	117	Resp:	5854
Ion	Ratio	Lower	Upper
117	100		
119	88.8	76.1	114.1
121	27.1	24.4	36.6

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#34

Benzene

Concen: 2.521 ug/l

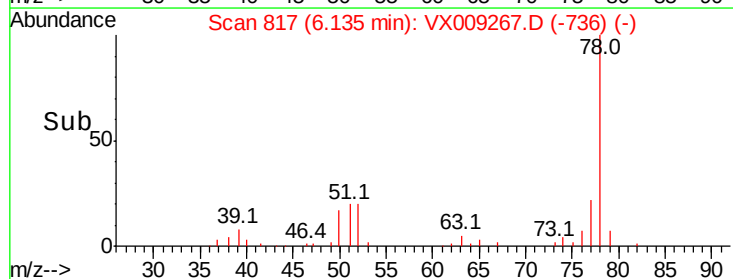
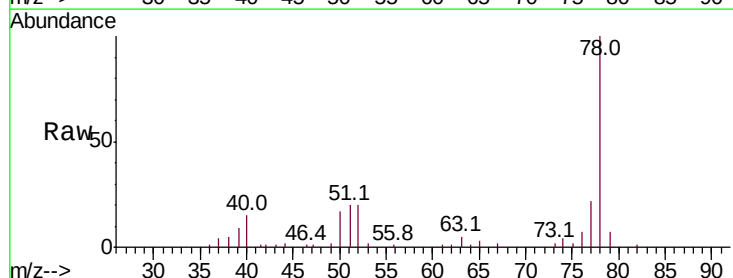
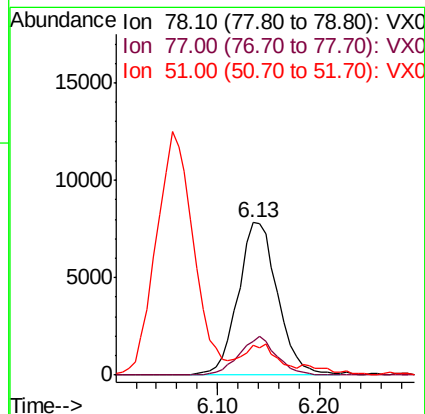
RT: 6.13 min Scan# 817

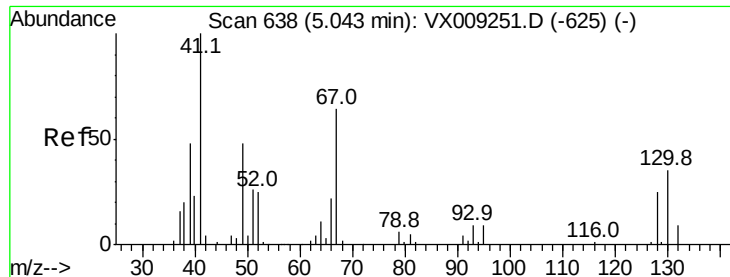
Delta R.T. -0.01 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

Tgt Ion:	78	Resp:	21017
Ion	Ratio	Lower	Upper
78	100		
77	21.9	18.8	28.2
51	18.2	13.5	20.3





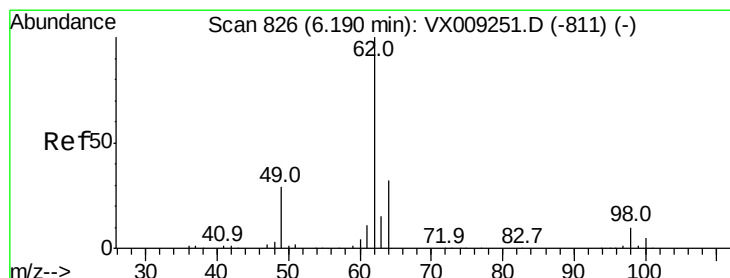
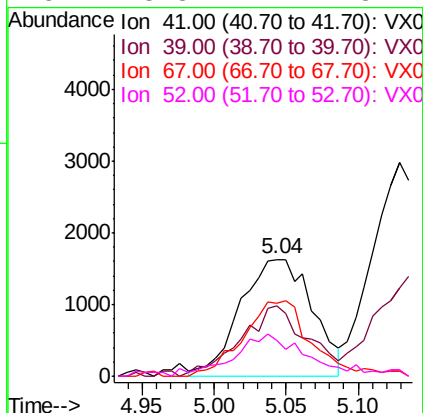
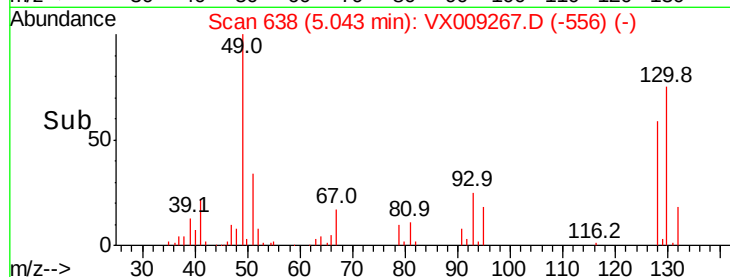
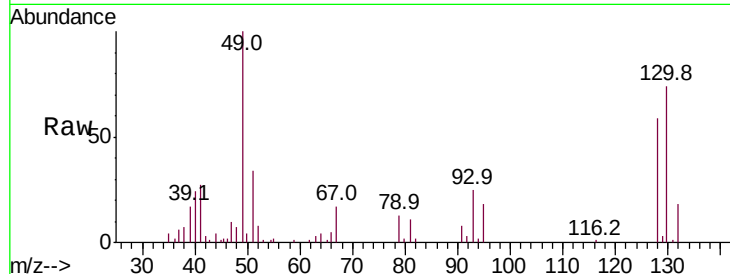
#35
Methacrylonitrile
Concen: 2.561 ug/l
RT: 5.04 min Scan# 638
Delta R.T. -0.00 min
Lab File: VX009267.D
Acq: 02 May 2019 11:04

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT2-2019

Tot Ion	41	Resp	5676
Ion	Ratio	Lower	Upper
41	100		
39	59.7	24.1	72.3
67	65.1	32.2	96.6
52	28.3	12.4	37.4

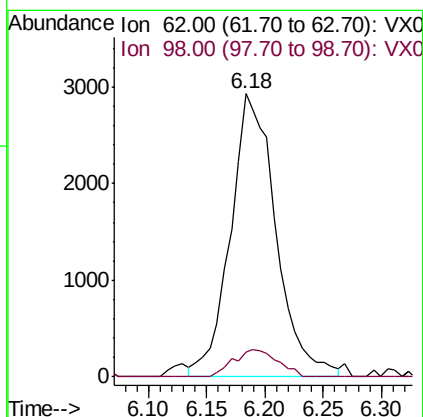
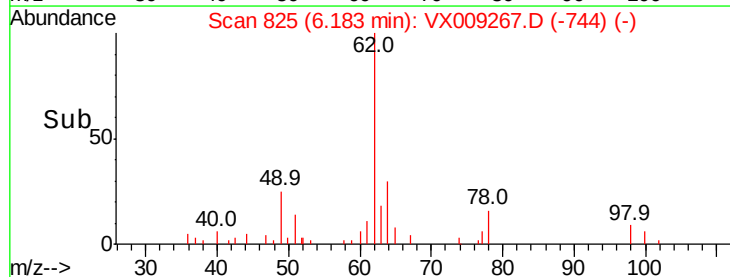
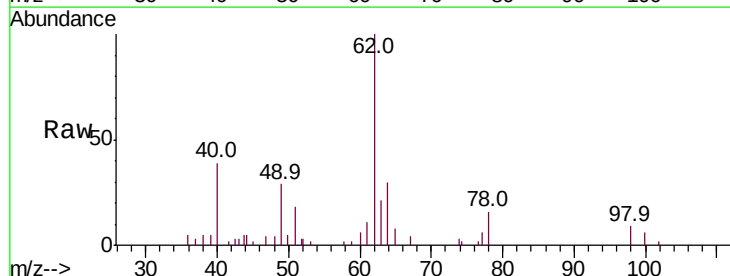
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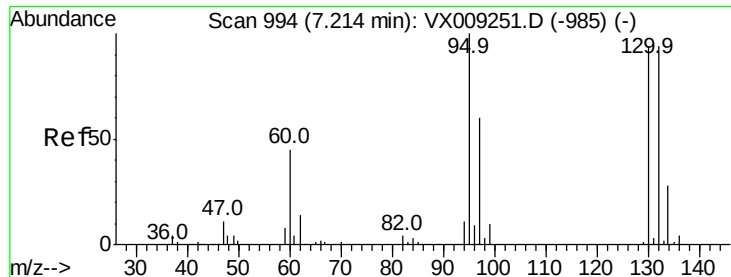
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#36
1,2-Dichloroethane
Concen: 2.632 ug/l
RT: 6.18 min Scan# 825
Delta R.T. -0.01 min
Lab File: VX009267.D
Acq: 02 May 2019 11:04

Tgt Ion	62	Resp	7962
Ion	Ratio	Lower	Upper
62	100		
98	9.4	7.4	11.2





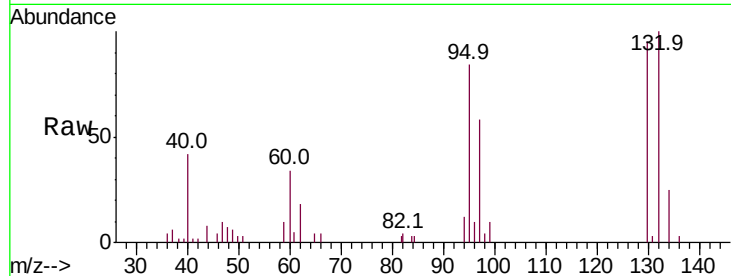
#37
 Trichloroethene
 Concen: 2.472 ug/l
 RT: 7.21 min Scan# 994
 Delta R.T. -0.00 min
 Lab File: VX009267.D
 Acq: 02 May 2019 11:04

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT2-2019

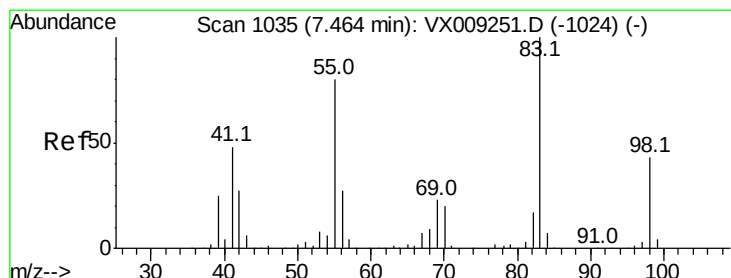
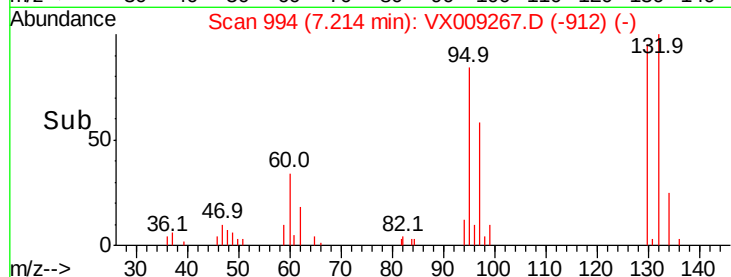
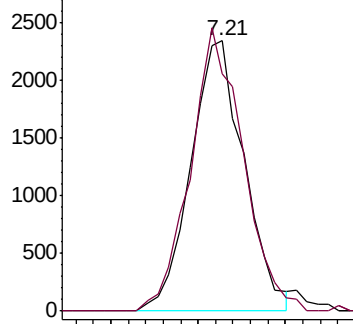
Tot Ion:130 Resp: 4961
 Ion Ratio Lower Upper
 130 100
 95 87.9 85.0 127.4

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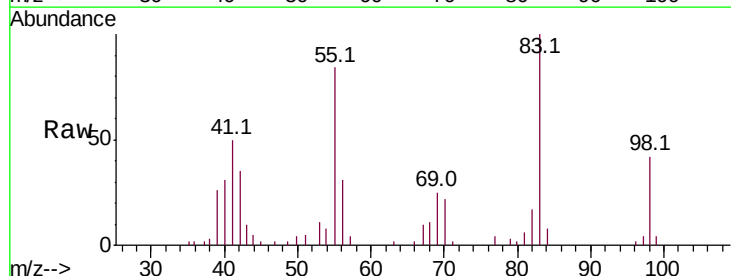


Abundance Ion 129.90 (129.60 to 130.60): V
 Ion 94.90 (94.60 to 95.60): VX0

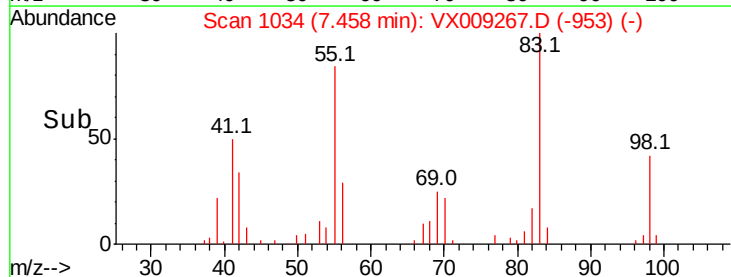
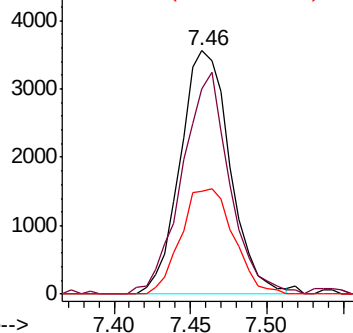


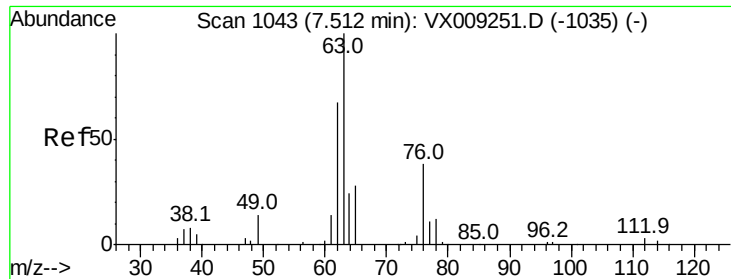
#38
 Methylcyclohexane
 Concen: 2.407 ug/l
 RT: 7.46 min Scan# 1034
 Delta R.T. -0.01 min
 Lab File: VX009267.D
 Acq: 02 May 2019 11:04

Tgt Ion: 83 Resp: 8042
 Ion Ratio Lower Upper
 83 100
 55 87.3 43.0 129.2
 98 45.7 22.1 66.1



Abundance Ion 83.00 (82.70 to 83.70): VX0
 Ion 55.00 (54.70 to 55.70): VX0
 Ion 98.00 (97.70 to 98.70): VX0





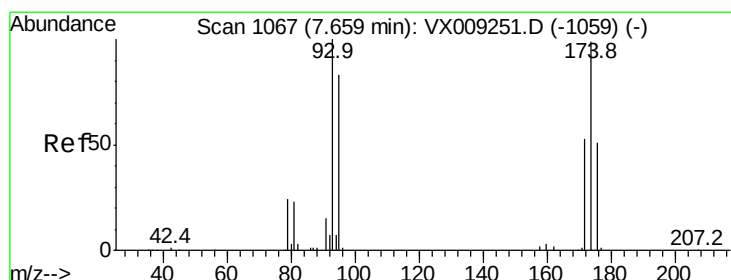
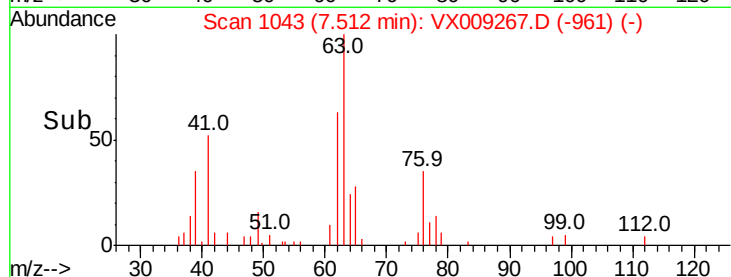
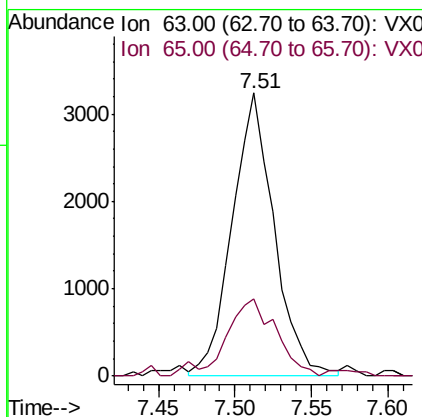
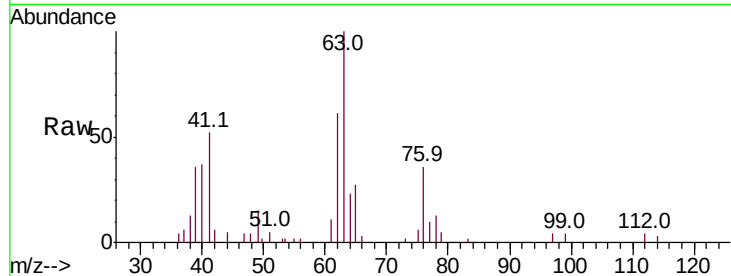
#39
 1,2-Dichloropropane
 Concen: 2.602 ug/l
 RT: 7.51 min Scan# 1043
 Delta R.T. -0.00 min
 Lab File: VX009267.D
 Acq: 02 May 2019 11:04

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT2-2019

Tot Ion: 63 Resp: 6178
 Ion Ratio Lower Upper
 63 100
 65 25.6 24.0 36.0

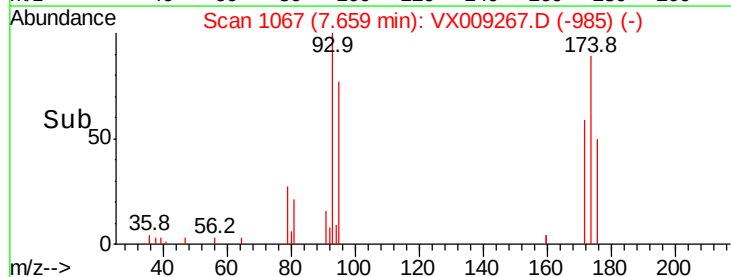
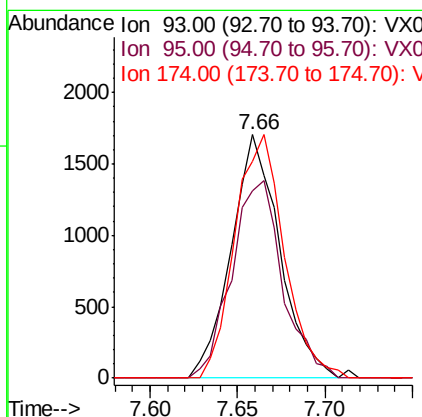
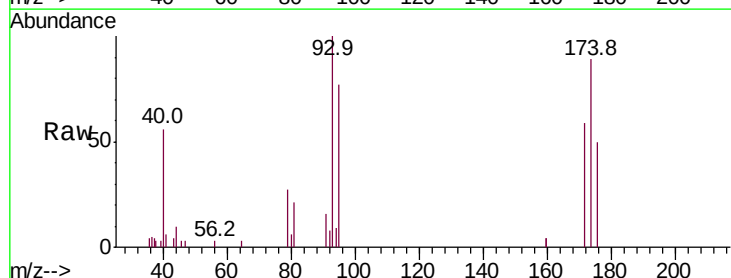
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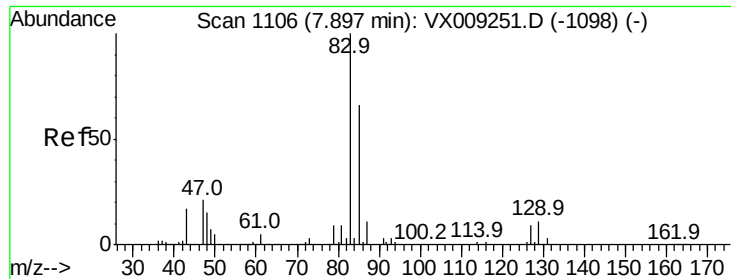
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#40
 Dibromomethane
 Concen: 2.444 ug/l
 RT: 7.66 min Scan# 1067
 Delta R.T. -0.00 min
 Lab File: VX009267.D
 Acq: 02 May 2019 11:04

Tgt Ion: 93 Resp: 3294
 Ion Ratio Lower Upper
 93 100
 95 85.3 0.0 167.2
 174 101.9 0.0 203.4





#41

Bromodichloromethane

Concen: 2.327 ug/l

RT: 7.90 min Scan# 1106

Delta R.T. -0.00 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

Instrument :

MSVOA_X

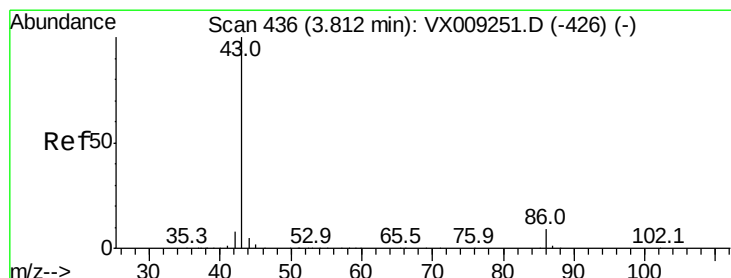
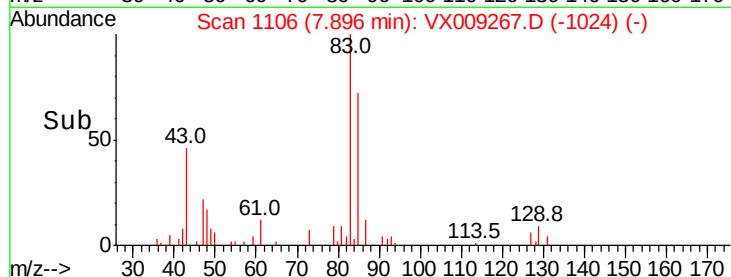
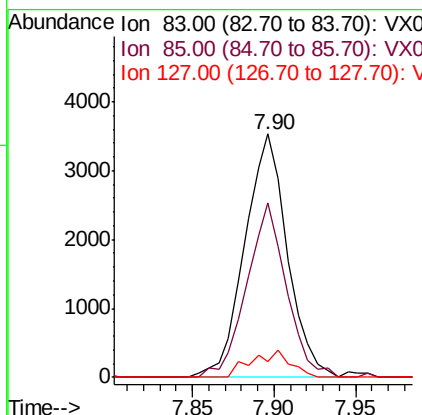
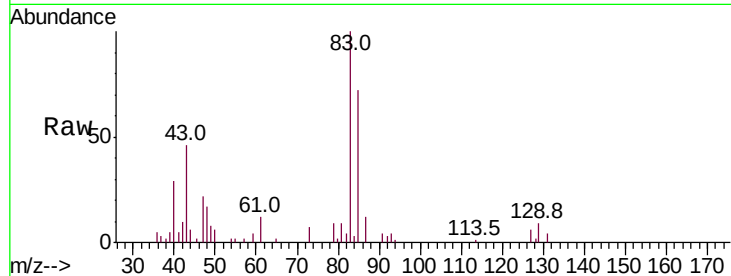
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion	83	Resp	6407
Ion	Ratio	Lower	Upper
83	100		
85	71.9	52.6	79.0
127	6.4	6.9	10.3#

Manual Integrations
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5/3/2019 11:19:37 AM



#42

Vinyl Acetate

Concen: 11.608 ug/l

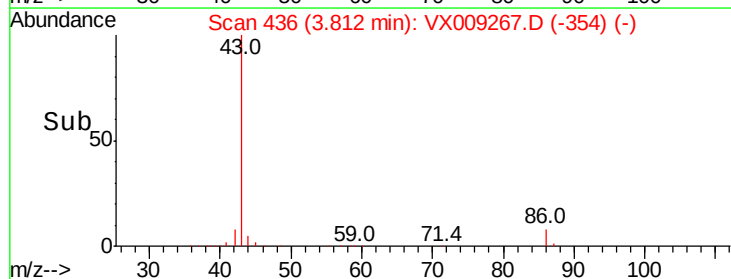
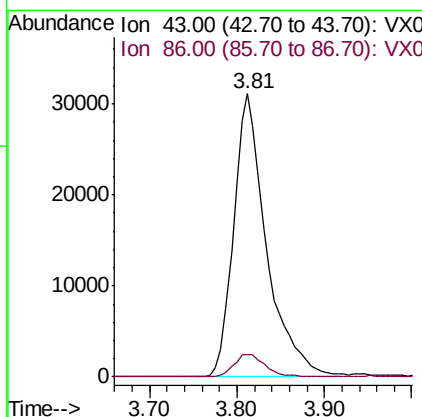
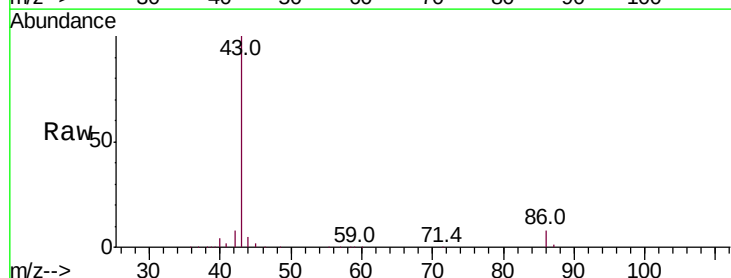
RT: 3.81 min Scan# 436

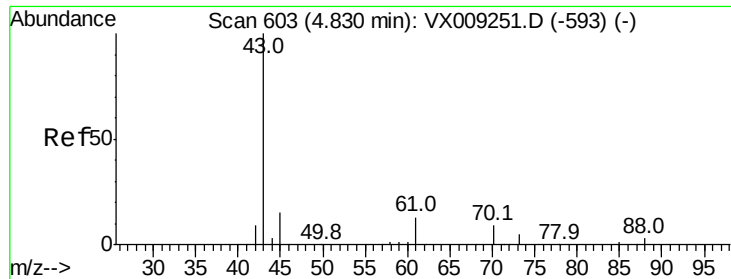
Delta R.T. -0.00 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

Tgt Ion	43	Resp	81150
Ion	Ratio	Lower	Upper
43	100		
86	7.7	6.0	9.0





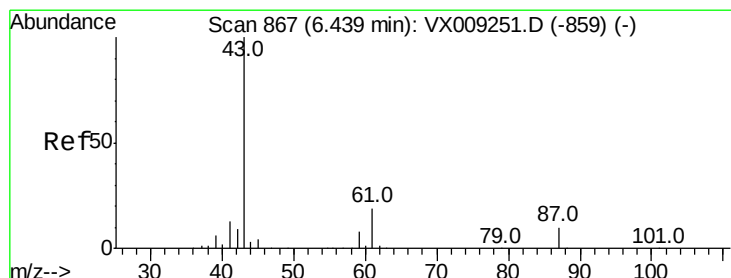
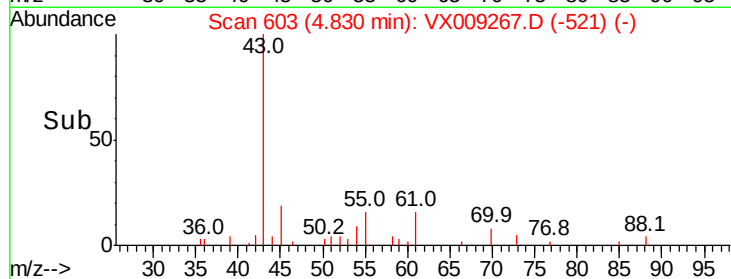
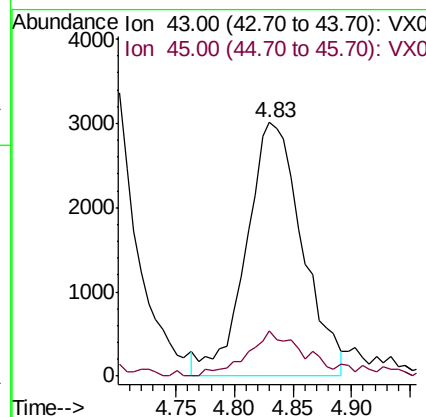
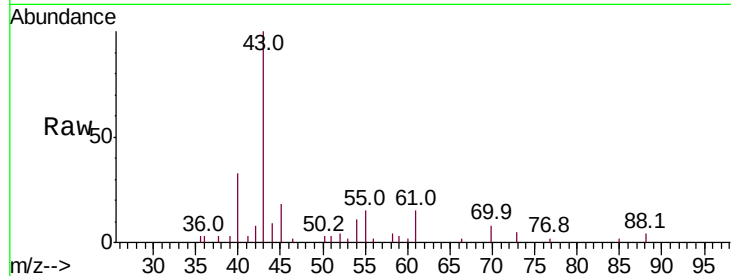
#43
Ethyl Acetate
Concen: 2.616 ug/l m
RT: 4.83 min Scan# 603
Delta R.T. -0.00 min
Lab File: VX009267.D
Acq: 02 May 2019 11:04

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT2-2019

Tot Ion: 43 Resp: 10014
Ion Ratio Lower Upper
43 100
45 0.4 11.8 17.8#

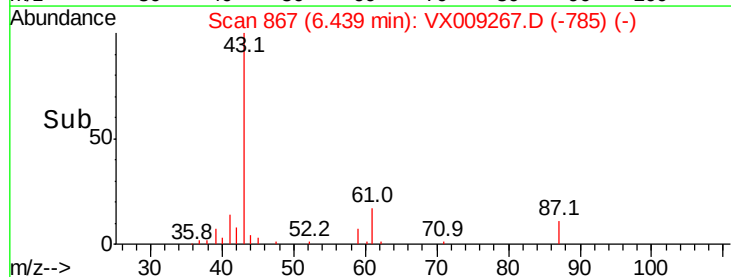
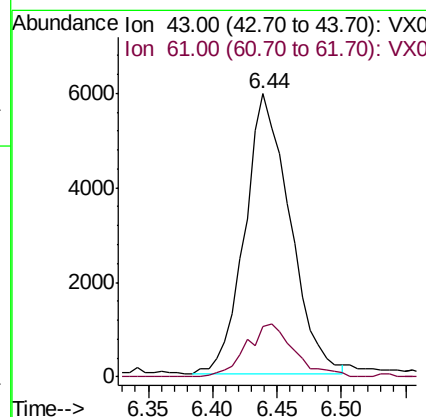
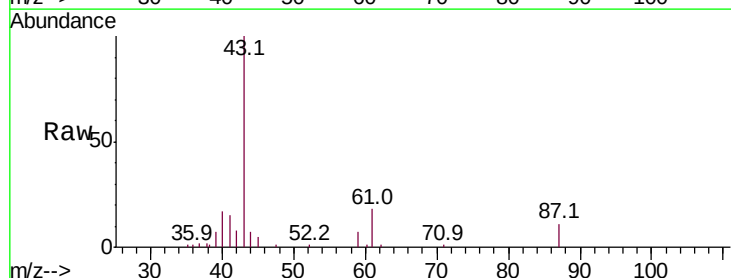
Manual Integrations
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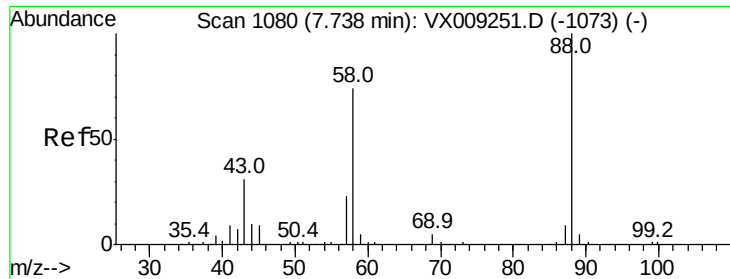
MMDadoda
5/3/2019 11:19:37 AM



#44
Isopropyl Acetate
Concen: 2.330 ug/l
RT: 6.44 min Scan# 867
Delta R.T. -0.00 min
Lab File: VX009267.D
Acq: 02 May 2019 11:04

Tgt Ion: 43 Resp: 14448
Ion Ratio Lower Upper
43 100
61 18.8 15.4 23.2





#45

1,4-Dioxane

Concen: 47.622 ug/l

RT: 7.74 min Scan# 1080

Delta R.T. -0.00 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

Instrument :

MSVOA_X

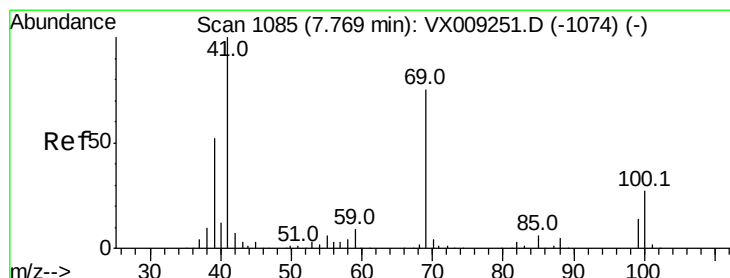
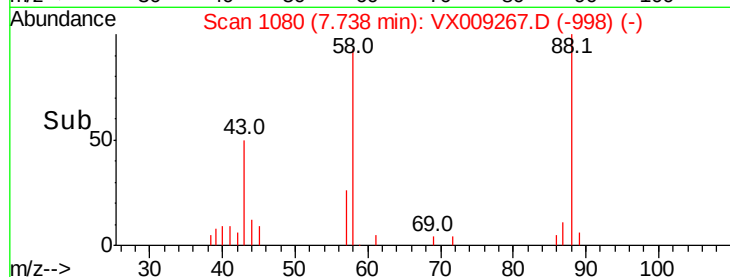
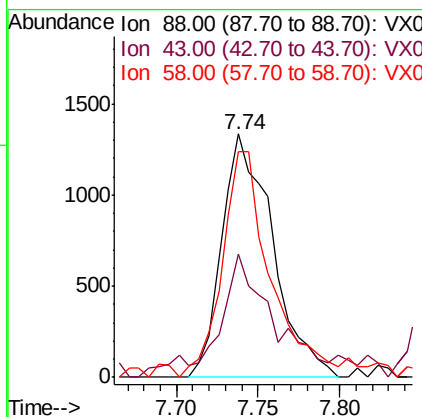
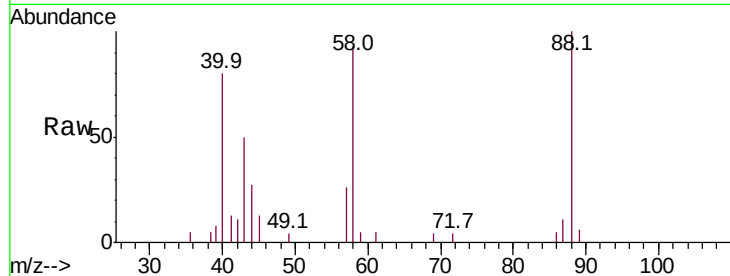
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:	88	Resp:	2899
Ion	Ratio	Lower	Upper
88	100		
43	32.3	28.5	42.7
58	87.6	62.5	93.7

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#46

Methyl methacrylate

Concen: 2.287 ug/l

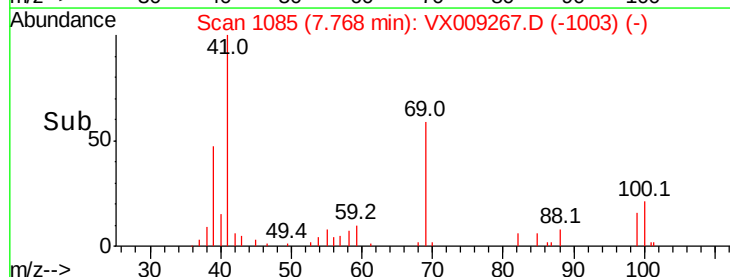
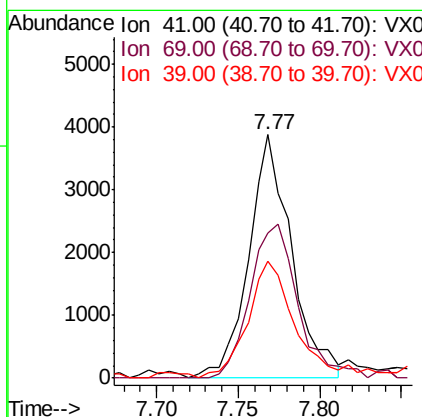
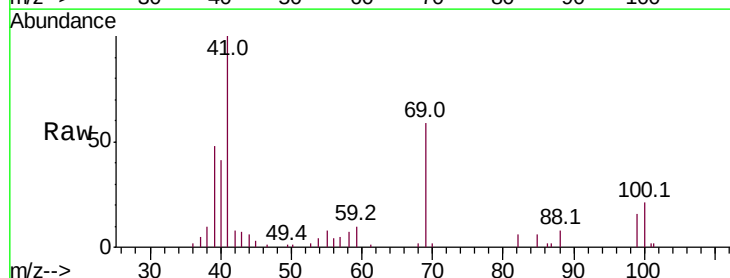
RT: 7.77 min Scan# 1085

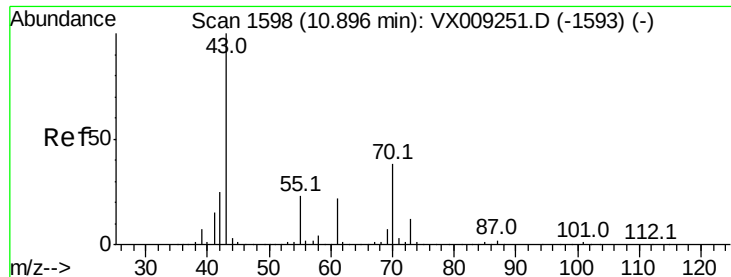
Delta R.T. -0.00 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

Tgt Ion:	41	Resp:	7079
Ion	Ratio	Lower	Upper
41	100		
69	59.4	37.6	112.8
39	46.0	25.8	77.3





#47

n-amvl Acetate

Concen: 2.180 ug/l

RT: 10.90 min Scan# 1598

Delta R.T. -0.00 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 43 Resp: 12179

Ion Ratio Lower Upper

43 100

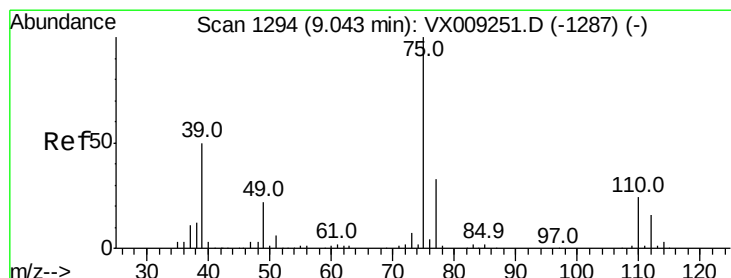
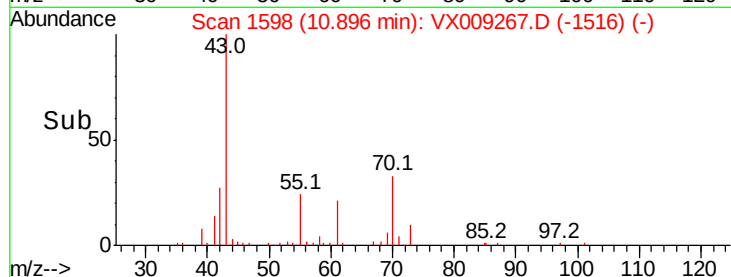
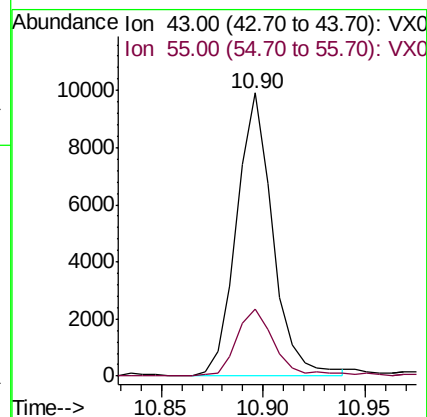
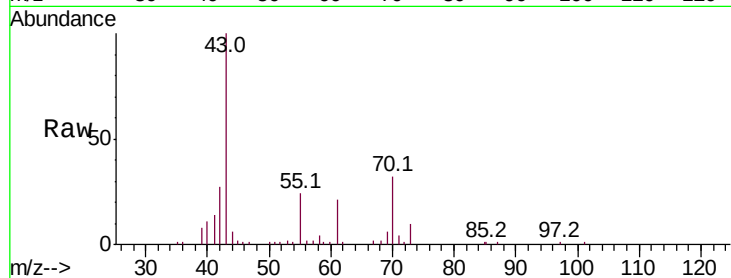
55 23.7 18.2 27.4

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#48

t-1,3-Dichloropropene

Concen: 2.109 ug/l

RT: 9.04 min Scan# 1294

Delta R.T. -0.00 min

Lab File: VX009267.D

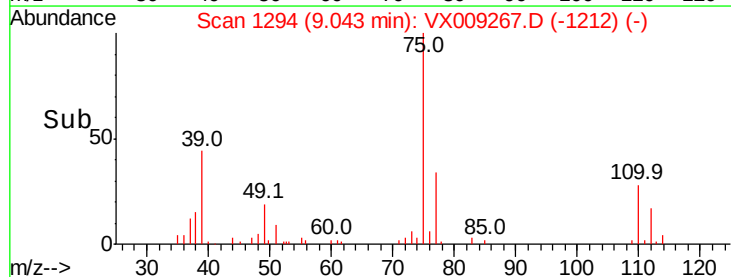
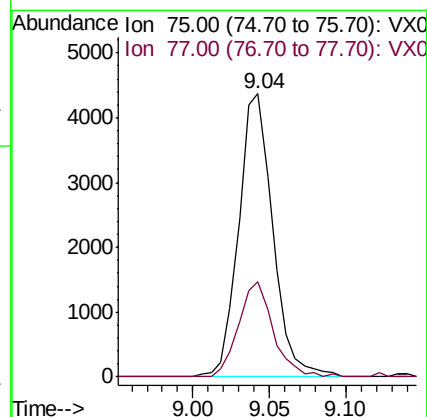
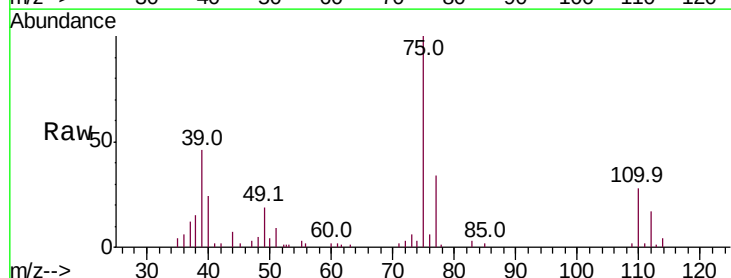
Acq: 02 May 2019 11:04

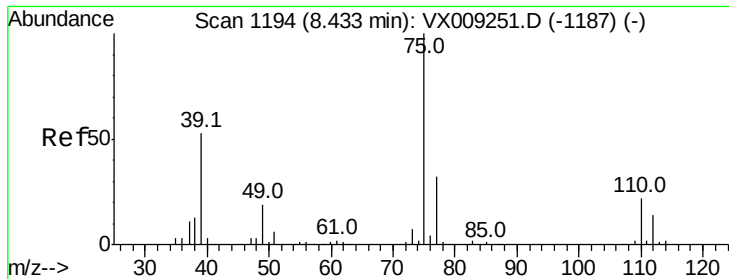
Tgt Ion: 75 Resp: 6774

Ion Ratio Lower Upper

75 100

77 33.8 26.5 39.7





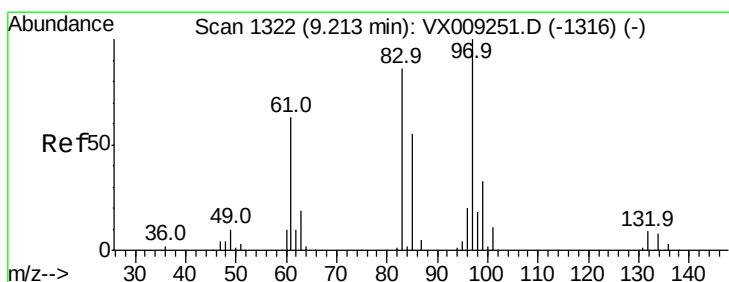
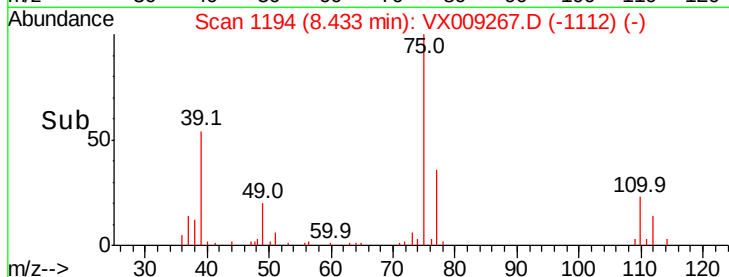
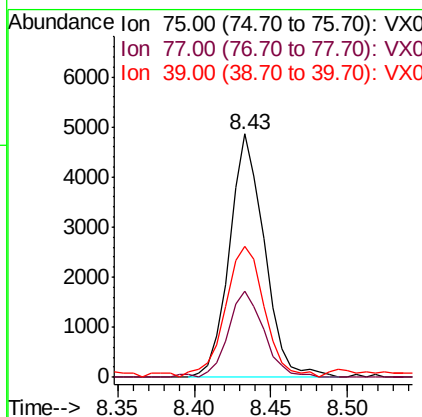
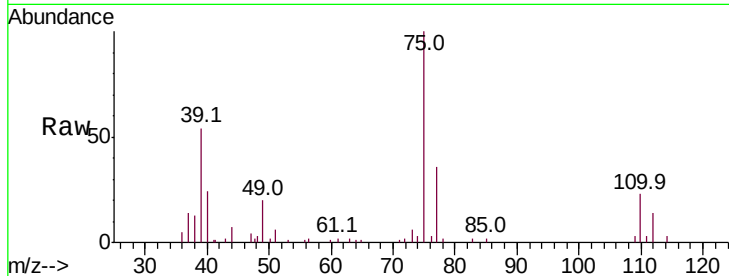
#49
 cis-1,3-Dichloropropene
 Concen: 2.188 ug/l
 RT: 8.43 min Scan# 1194
 Delta R.T. -0.00 min
 Lab File: VX009267.D
 Acq: 02 May 2019 11:04

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT2-2019

Tot Ion:	75	Resp:	7714
Ion	Ratio	Lower	Upper
75	100		
77	35.6	26.0	39.0
39	51.5	42.6	63.8

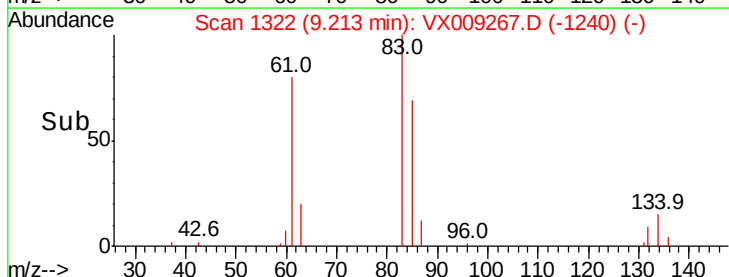
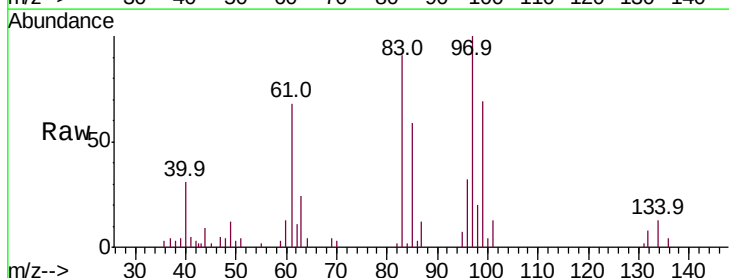
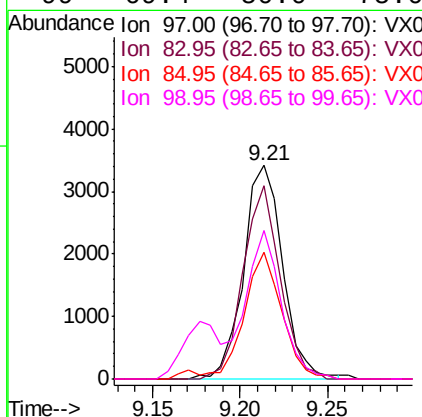
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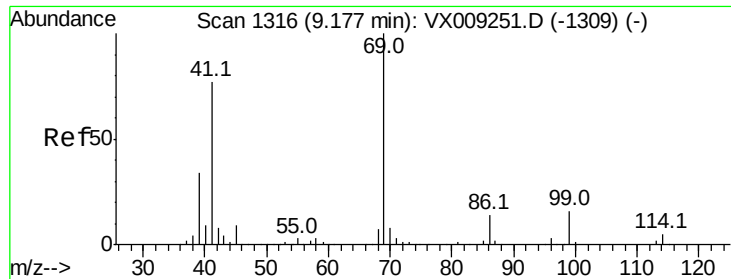
MMDadoda
 5/3/2019 11:19:37 AM



#50
 1,1,2-Trichloroethane
 Concen: 2.571 ug/l
 RT: 9.21 min Scan# 1322
 Delta R.T. -0.00 min
 Lab File: VX009267.D
 Acq: 02 May 2019 11:04

Tgt Ion:	97	Resp:	5309
Ion	Ratio	Lower	Upper
97	100		
83	90.5	68.8	103.2
85	59.1	45.8	68.6
99	69.4	50.0	75.0





#51

Ethyl methacrylate

Concen: 2.178 ug/l

RT: 9.18 min Scan# 1316

Delta R.T. -0.00 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

Instrument :

MSVOA_X

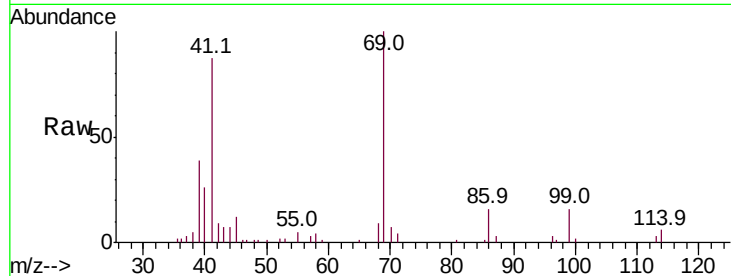
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

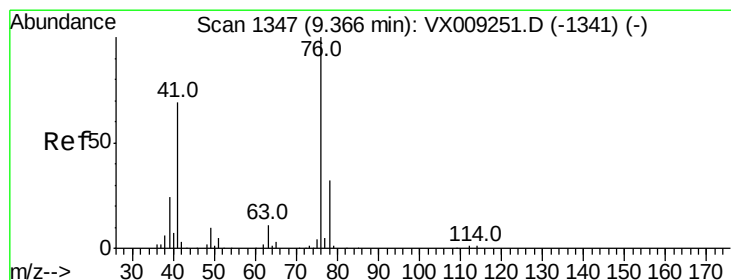
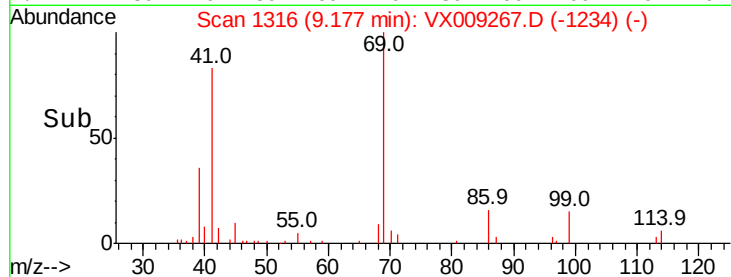
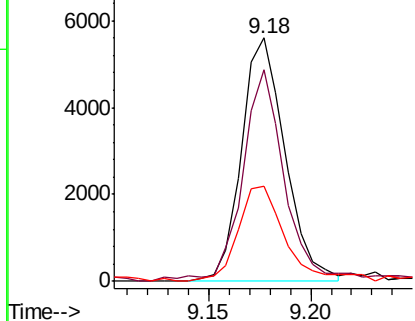
Tot Ion:	69	Resp:	8311
Ion	Ratio	Lower	Upper
69	100		
41	84.6	38.4	115.2
39	38.9	17.2	51.5

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Abundance Ion 69.00 (68.70 to 69.70): VX0
Ion 41.00 (40.70 to 41.70): VX0
Ion 39.00 (38.70 to 39.70): VX0



#52

1,3-Dichloropropane

Concen: 2.530 ug/l

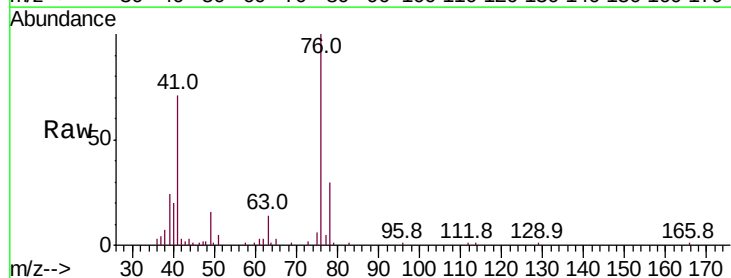
RT: 9.37 min Scan# 1348

Delta R.T. 0.01 min

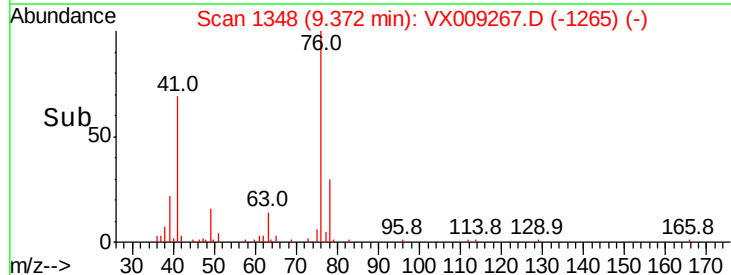
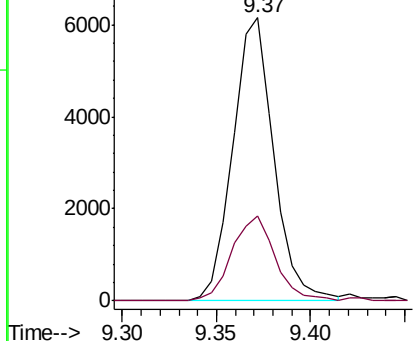
Lab File: VX009267.D

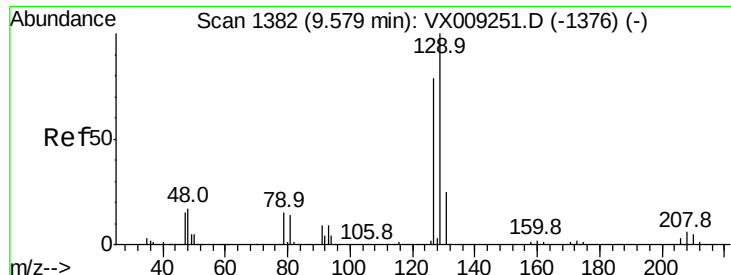
Acq: 02 May 2019 11:04

Tgt Ion:	76	Resp:	9271
Ion	Ratio	Lower	Upper
76	100		
78	31.7	0.0	64.2



Abundance Ion 76.00 (75.70 to 76.70): VX0
Ion 78.00 (77.70 to 78.70): VX0





#53

Dibromochloromethane

Concen: 2.232 ug/l

RT: 9.58 min Scan# 1382

Delta R.T. -0.00 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:129 Resp: 4589

Ion Ratio Lower Upper

129 100

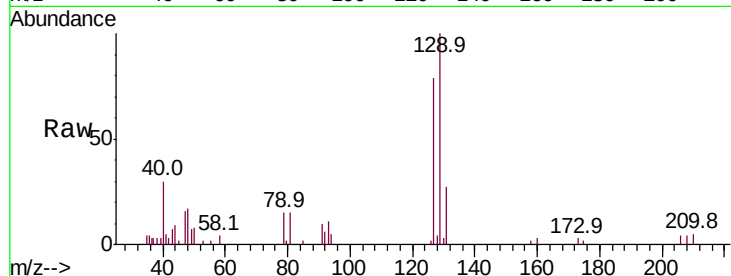
127 81.7 39.1 117.5

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Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

9.58

3000

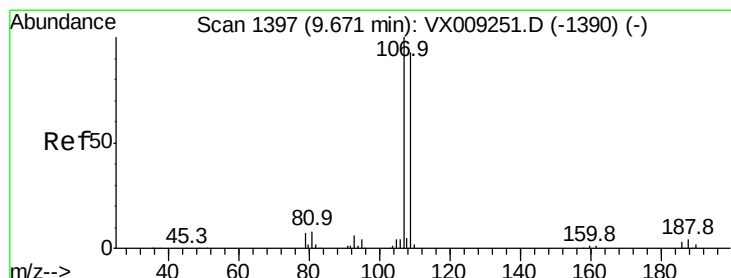
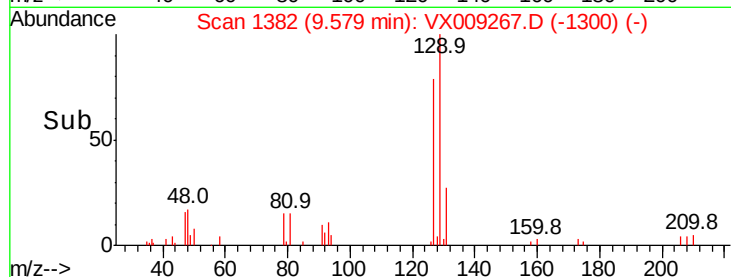
2000

1000

0

Time-->

9.55 9.60



#54

1,2-Dibromoethane

Concen: 2.544 ug/l

RT: 9.67 min Scan# 1397

Delta R.T. -0.00 min

Lab File: VX009267.D

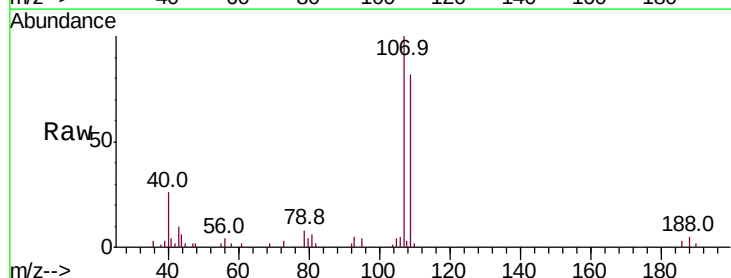
Acq: 02 May 2019 11:04

Tgt Ion:107 Resp: 5388

Ion Ratio Lower Upper

107 100

109 89.6 75.5 113.3



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

9.67

4000

3000

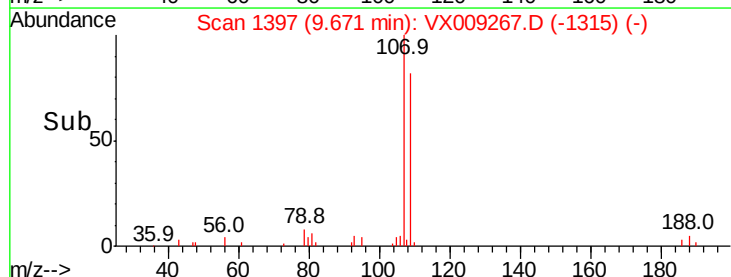
2000

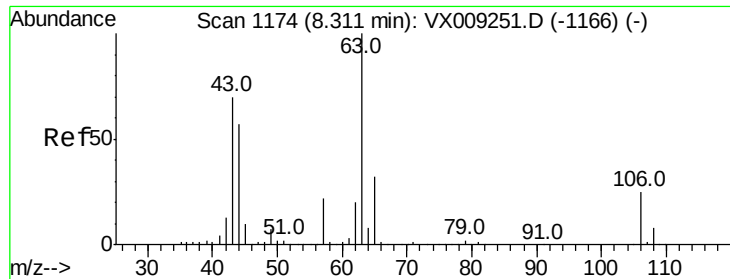
1000

0

Time-->

9.60 9.65 9.70





#55

2-Chloroethyl vinyl ether

Concen: 11.454 ug/l

RT: 8.31 min Scan# 1174

Delta R.T. -0.00 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

Instrument :

MSVOA_X

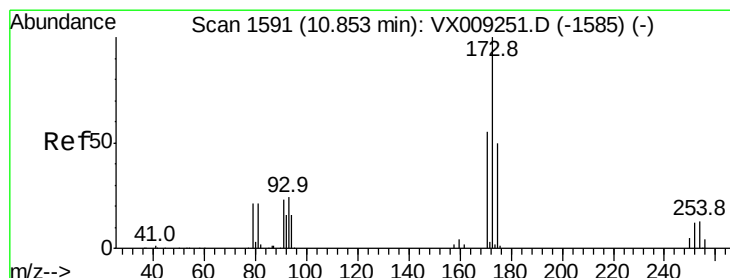
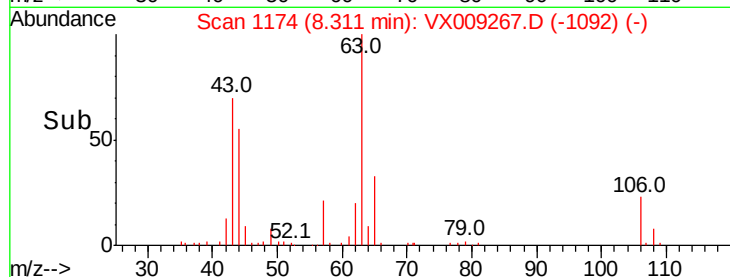
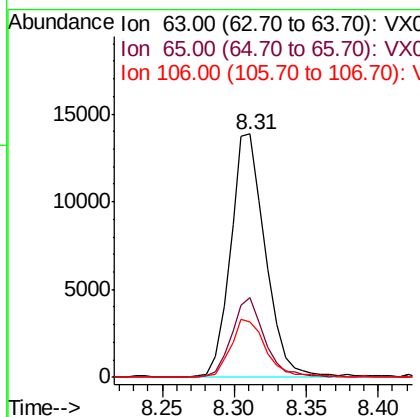
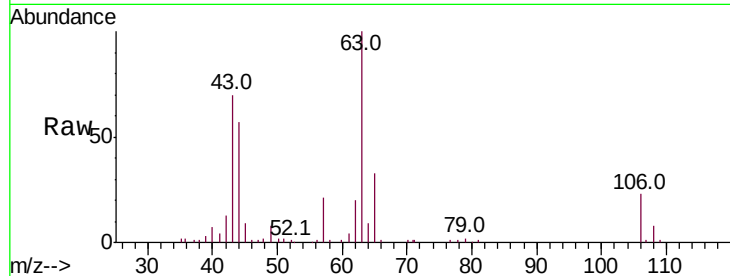
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:	63	Resp:	23289
Ion	Ratio	Lower	Upper
63	100		
65	31.2	25.8	38.6
106	23.5	19.8	29.6

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#56

Bromoform

Concen: 2.037 ug/l

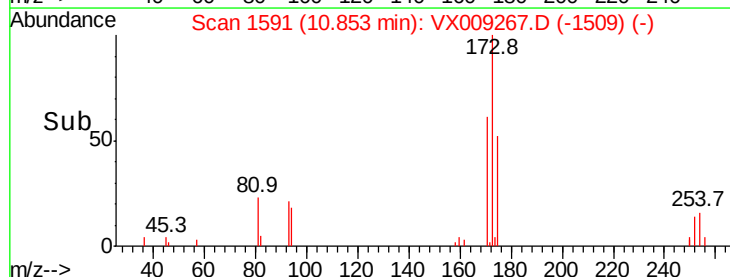
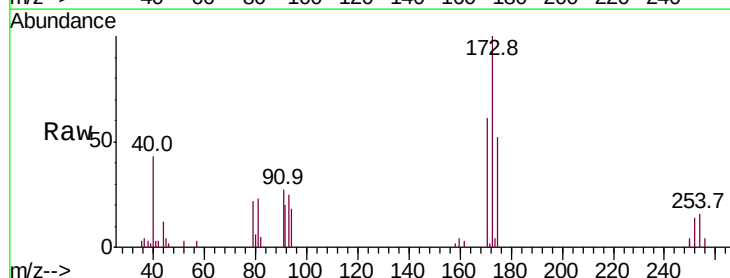
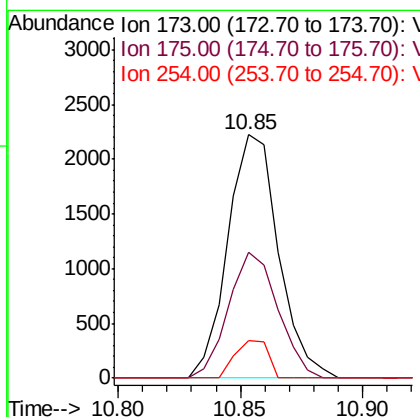
RT: 10.85 min Scan# 1591

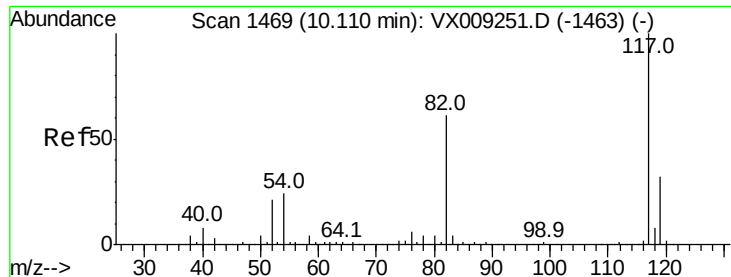
Delta R.T. -0.00 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

Tgt Ion:	173	Resp:	3216
Ion	Ratio	Lower	Upper
173	100		
175	50.2	39.4	59.2
254	10.0	9.9	14.9





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:117 Resp: 161656

Ion Ratio Lower Upper

117 100

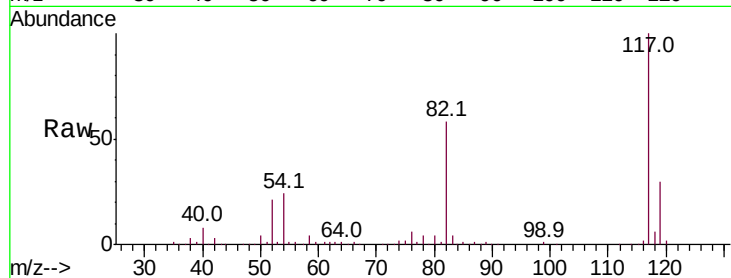
82 59.2 47.8 71.8

119 32.2 25.6 38.4

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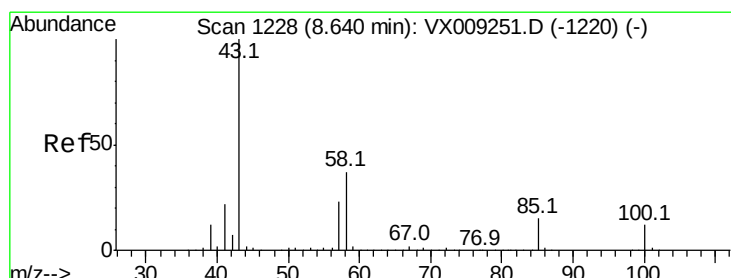
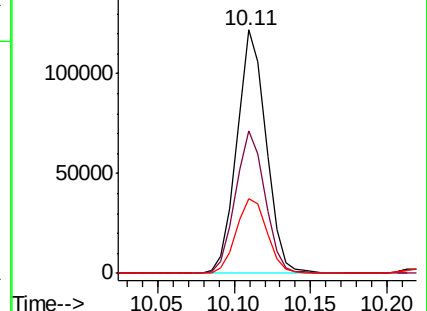
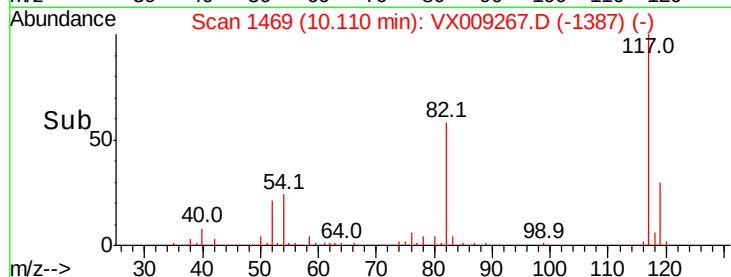
5/3/2019 11:19:37 AM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 119.00 (118.70 to 119.70): V



#58

4-Methyl-2-Pentanone

Concen: 11.940 ug/l

RT: 8.64 min Scan# 1228

Delta R.T. -0.00 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

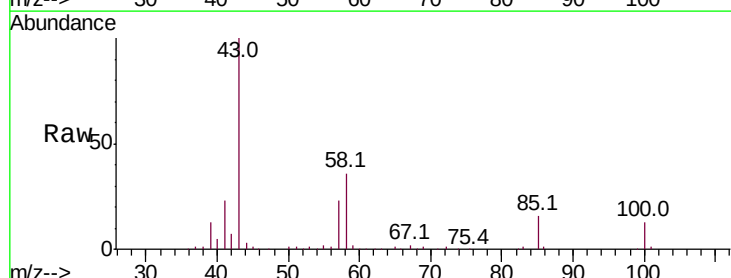
Tgt Ion: 43 Resp: 47460

Ion Ratio Lower Upper

43 100

58 36.6 29.4 44.0

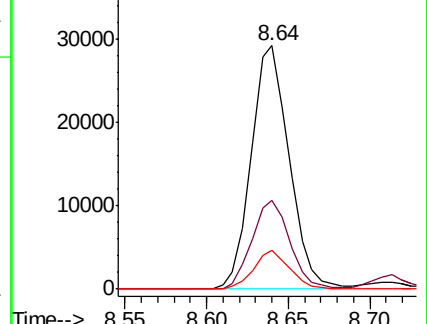
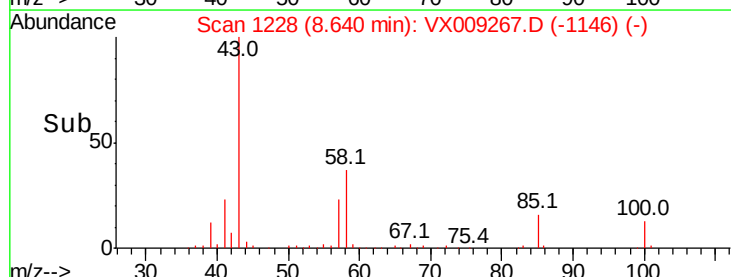
85 15.1 11.8 17.8

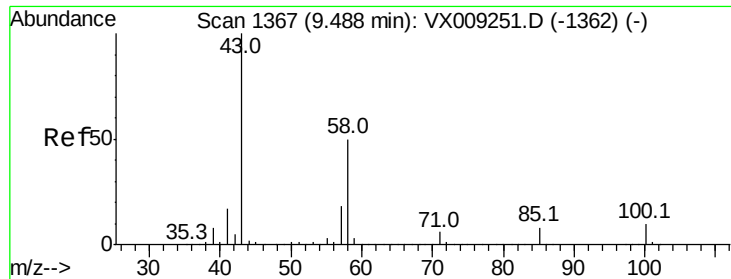


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

Ion 85.00 (84.70 to 85.70): VX0





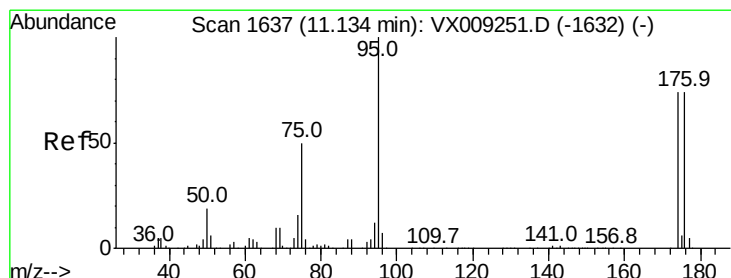
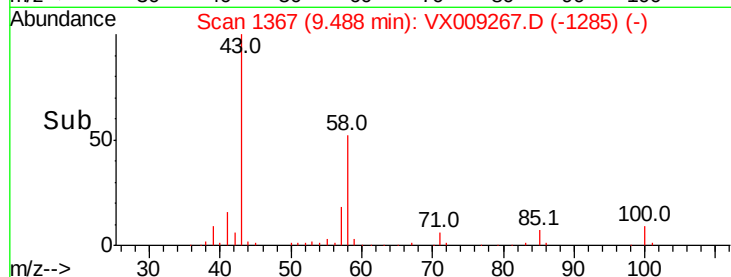
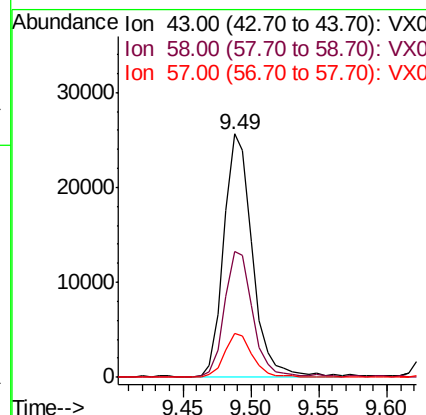
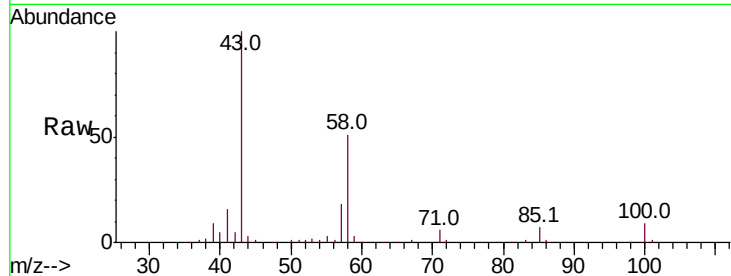
#59
2-Hexanone
Concen: 11.949 ug/l
RT: 9.49 min Scan# 1367
Delta R.T. -0.00 min
Lab File: VX009267.D
Acq: 02 May 2019 11:04

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT2-2019

Tot Ion	Ratio	Lower	Upper
43	100		
58	51.2	40.8	61.2
57	17.9	14.1	21.1

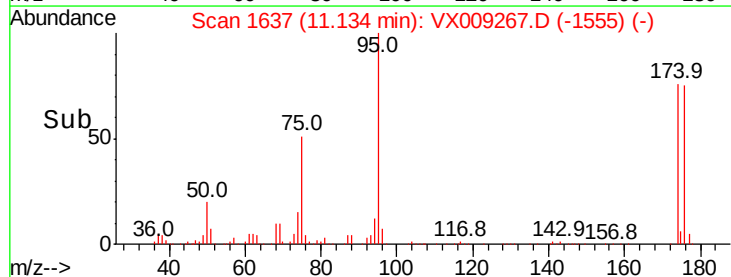
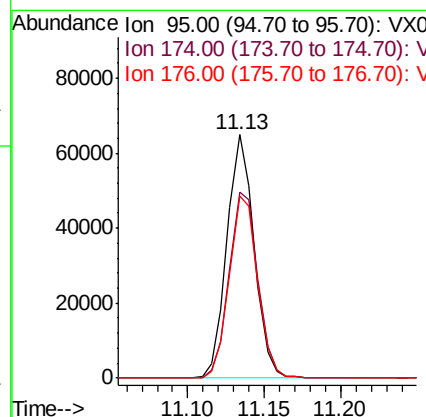
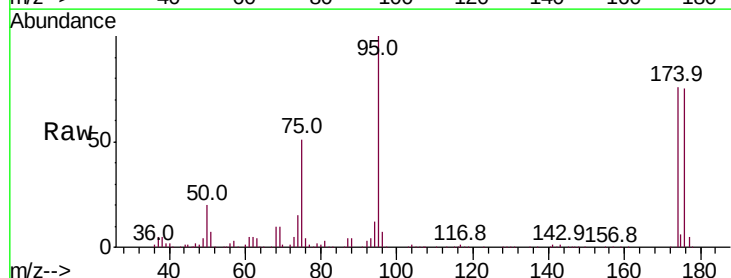
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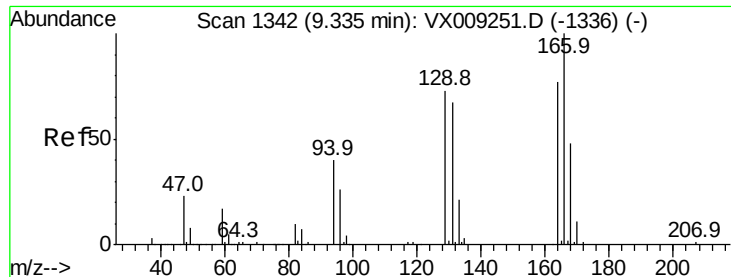
MMDadoda
5/3/2019 11:19:37 AM



#60
4-Bromofluorobenzene
Concen: 29.061 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX009267.D
Acq: 02 May 2019 11:04

Tgt Ion	Ratio	Lower	Upper
95	100		
174	80.8	63.6	95.4
176	78.4	62.4	93.6





#61

Tetrachloroethene

Concen: 2.711 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:164 Resp: 4832

Ion Ratio Lower Upper

164 100

166 124.5 104.1 156.1

129 96.3 76.0 114.0

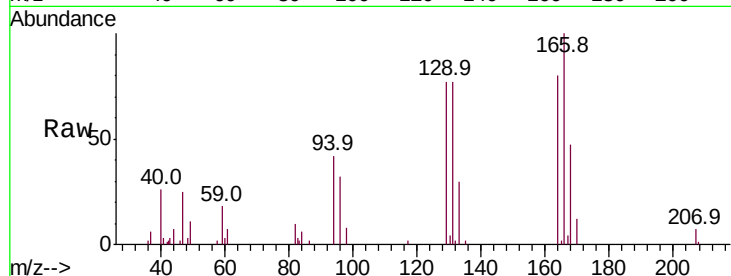
131 95.5 70.1 105.1

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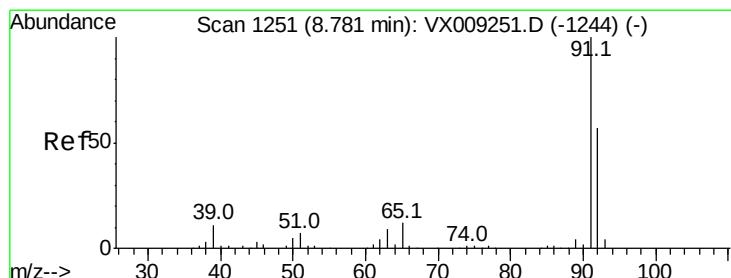
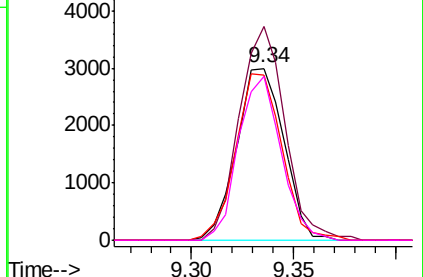
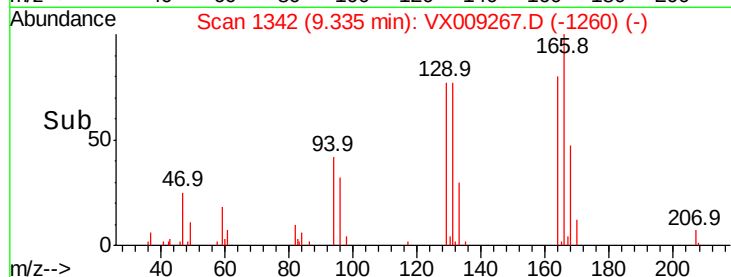


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 2.508 ug/l

RT: 8.78 min Scan# 1251

Delta R.T. -0.00 min

Lab File: VX009267.D

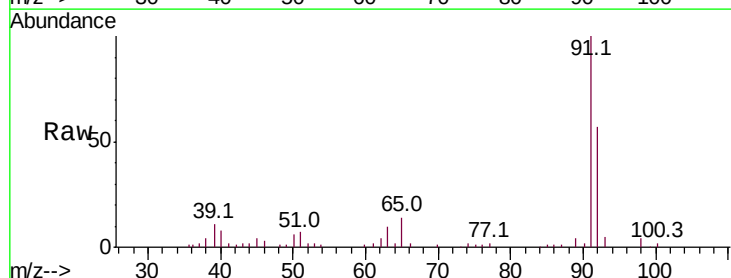
Acq: 02 May 2019 11:04

Tgt Ion: 91 Resp: 21663

Ion Ratio Lower Upper

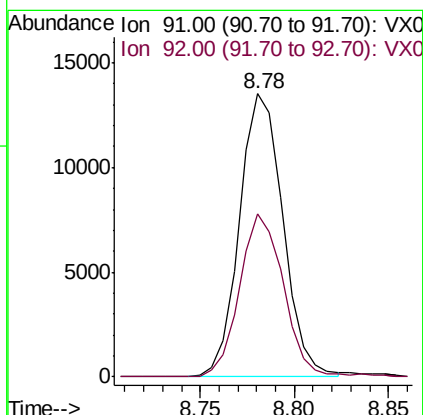
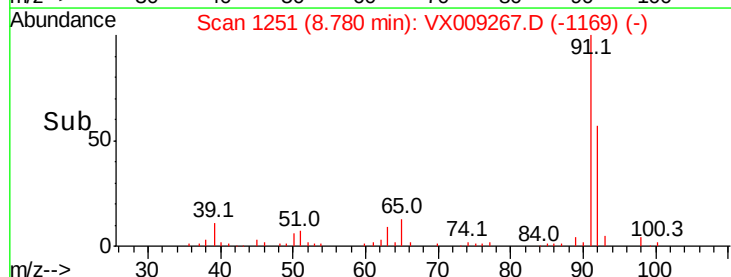
91 100

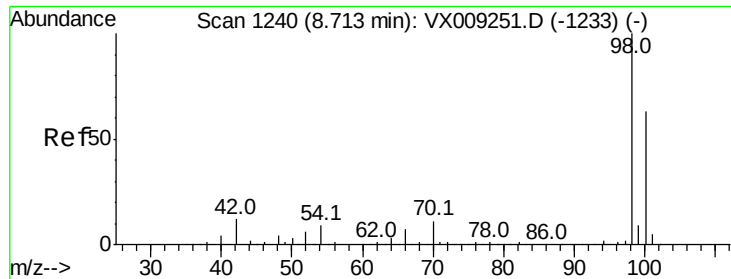
92 57.7 46.1 69.1



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0





#63

Toluene-d8

Concen: 30.536 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 98 Resp: 234039

Ion Ratio Lower Upper

98 100

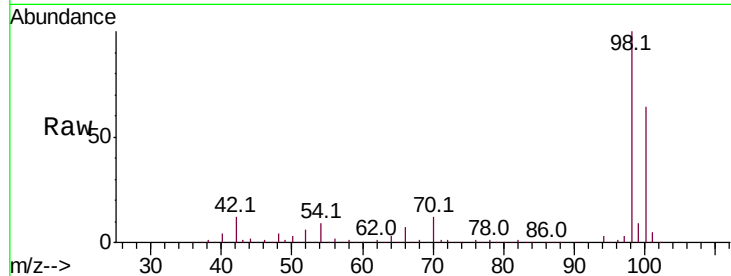
100 64.1 52.3 78.5

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Abundance Ion 98.00 (97.70 to 98.70): VX009251.D (-1233) (-)

Ion 100.00 (99.70 to 100.70): VX009251.D (-1233) (-)

8.71

150000

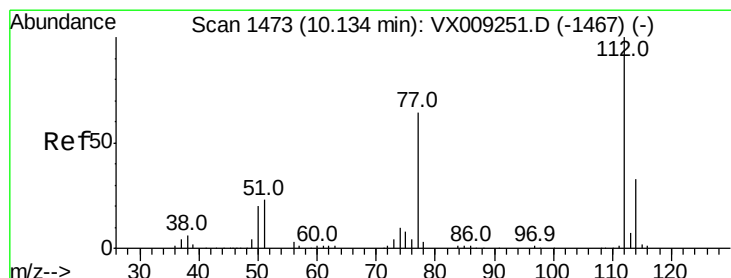
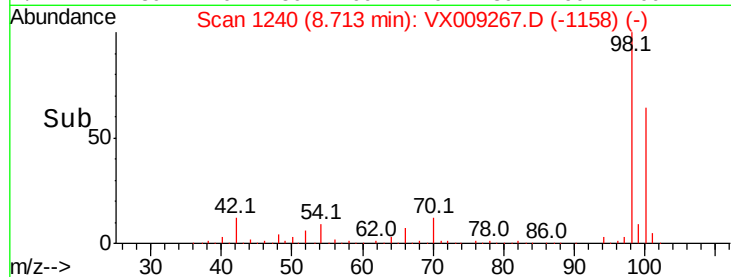
100000

50000

0

8.60 8.65 8.70 8.75 8.80

Time-->



#64

Chlorobenzene

Concen: 2.590 ug/l

RT: 10.13 min Scan# 1473

Delta R.T. -0.00 min

Lab File: VX009267.D

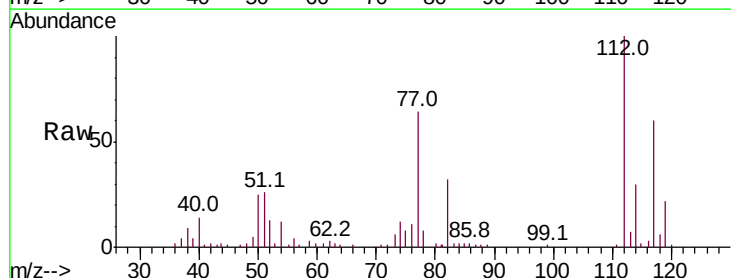
Acq: 02 May 2019 11:04

Tgt Ion: 112 Resp: 13466

Ion Ratio Lower Upper

112 100

114 29.6 26.2 39.2



Abundance Ion 112.00 (111.70 to 112.70): VX009251.D (-1467) (-)

Ion 114.00 (113.70 to 114.70): VX009251.D (-1467) (-)

10.13

10000

8000

6000

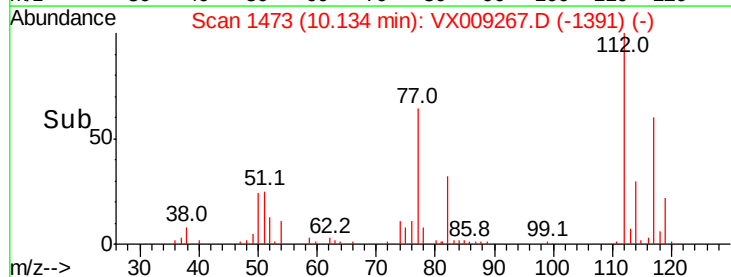
4000

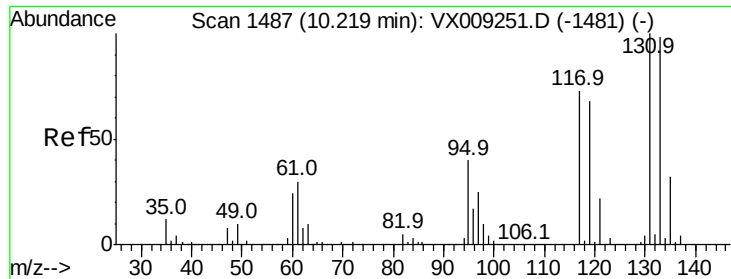
2000

0

10.10 10.15 10.20

Time-->





#65

1,1,1,2-Tetrachloroethane

Concen: 2.352 ug/l

RT: 10.22 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

Instrument :

MSVOA_X

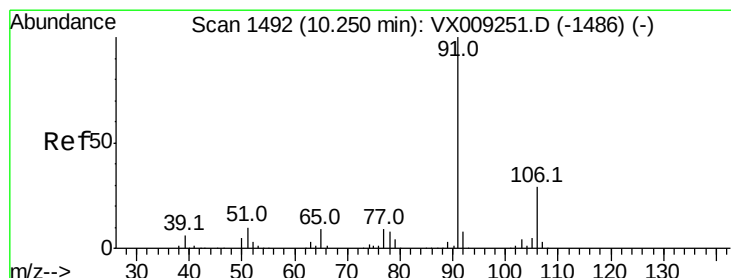
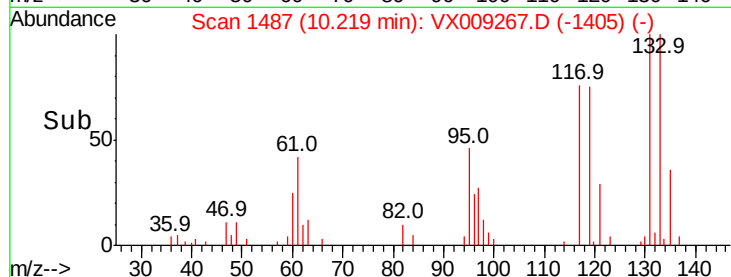
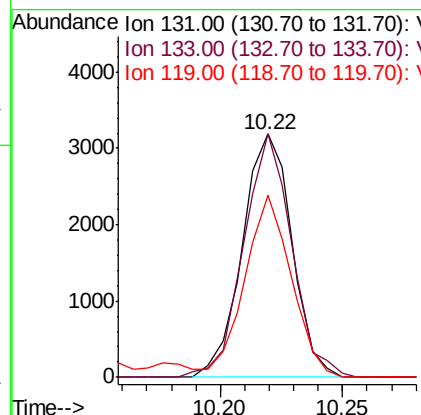
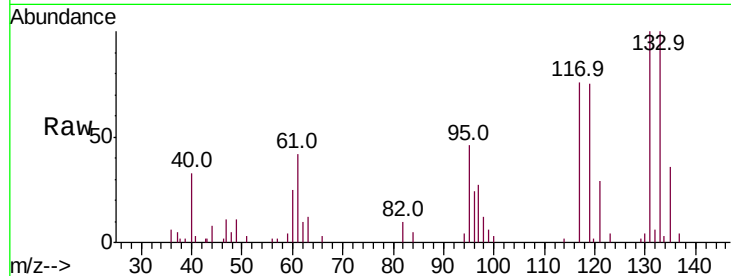
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:	131	Resp:	4478
Ion Ratio	Lower	Upper	
131	100		
133	96.9	0.0	191.2
119	70.1	0.0	135.4

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#66

Ethyl Benzene

Concen: 2.473 ug/l

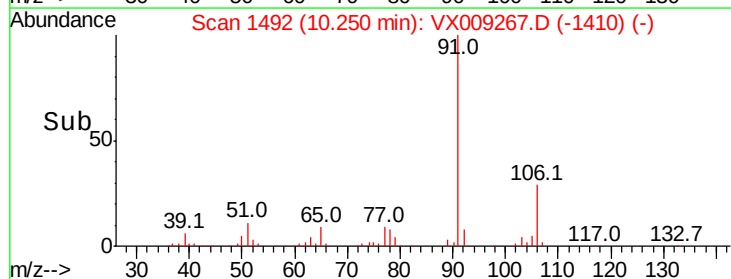
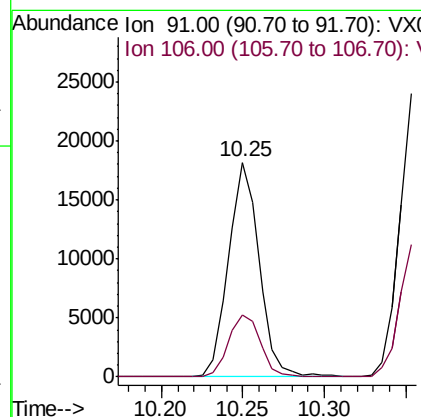
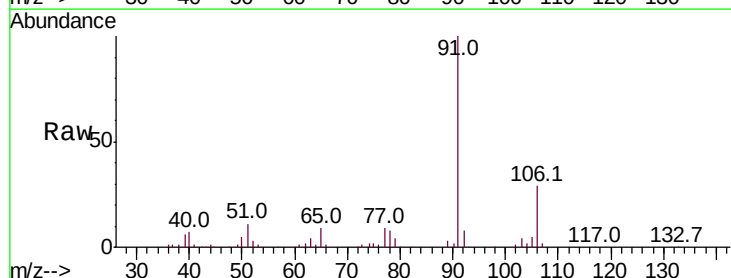
RT: 10.25 min Scan# 1492

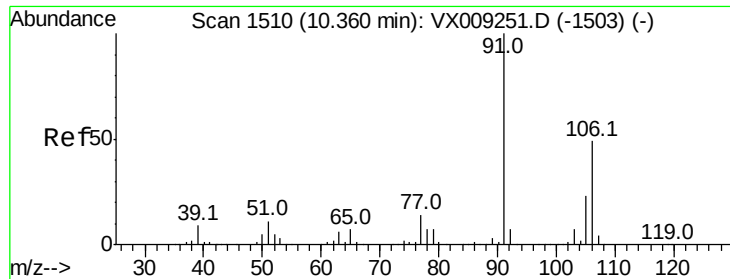
Delta R.T. -0.00 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

Tgt Ion:	91	Resp:	23796
Ion Ratio	Lower	Upper	
91	100		
106	29.0	23.5	35.3





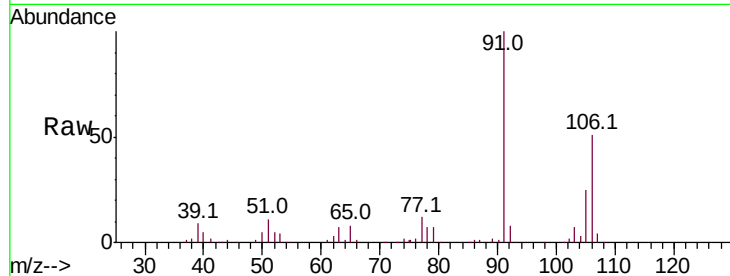
#67
m/p-Xylenes
Concen: 4.804 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. -0.00 min
Lab File: VX009267.D
Acq: 02 May 2019 11:04

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT2-2019

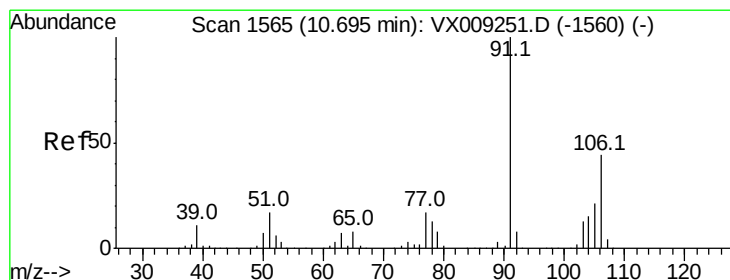
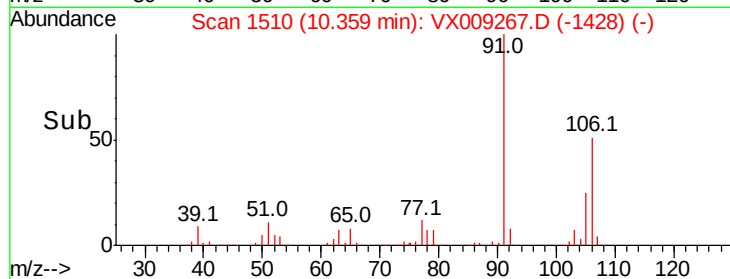
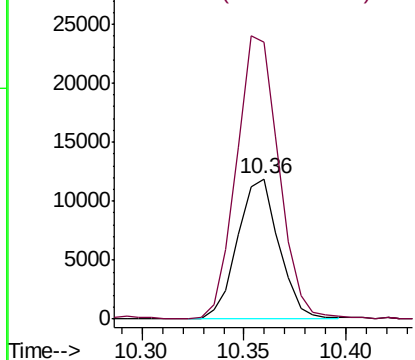
Tot Ion:106 Resp: 16877
Ion Ratio Lower Upper
106 100
91 203.8 166.8 250.2

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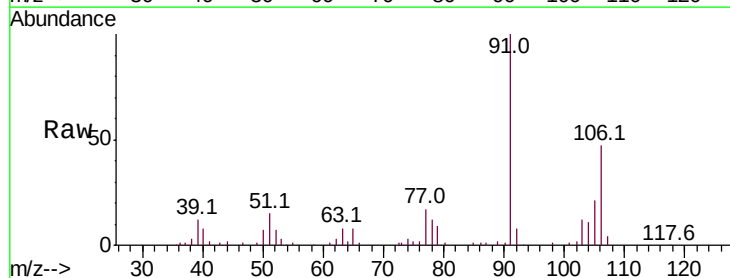


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

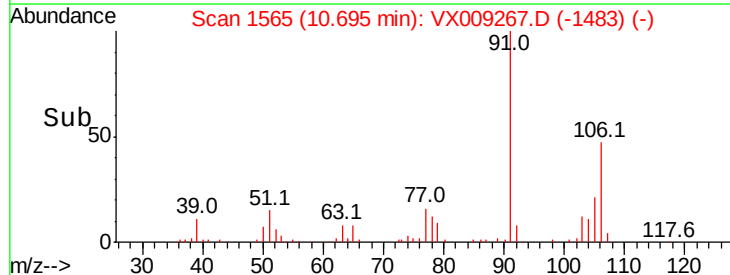
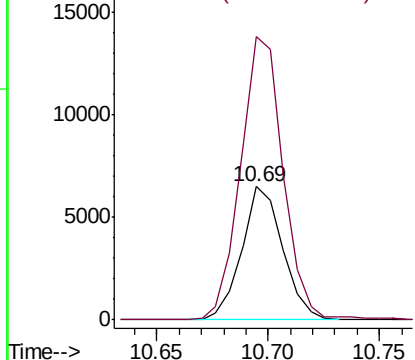


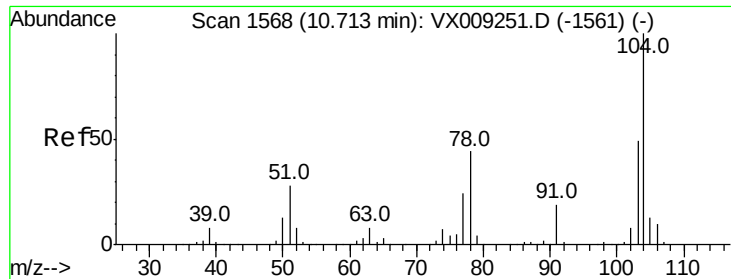
#68
o-Xylene
Concen: 2.422 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. -0.00 min
Lab File: VX009267.D
Acq: 02 May 2019 11:04

Tgt Ion:106 Resp: 8366
Ion Ratio Lower Upper
106 100
91 219.1 110.8 332.3



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0





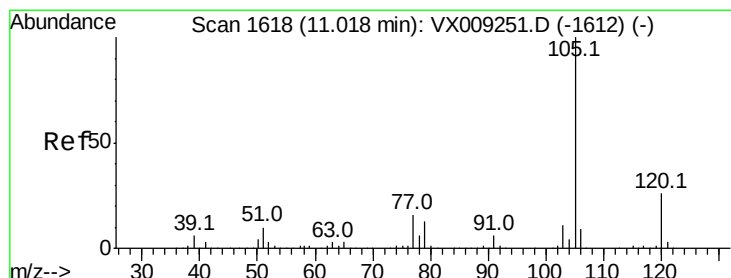
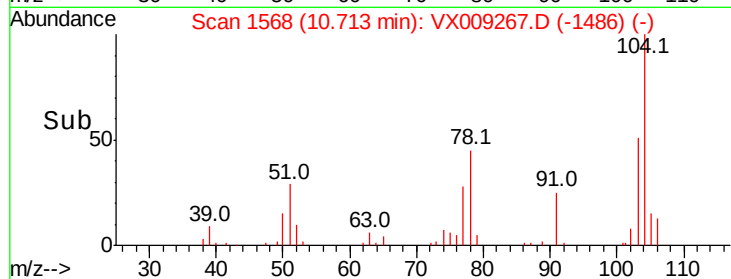
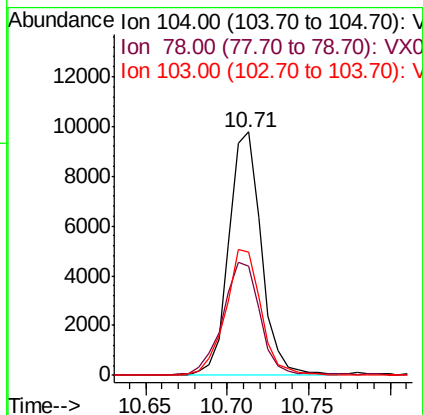
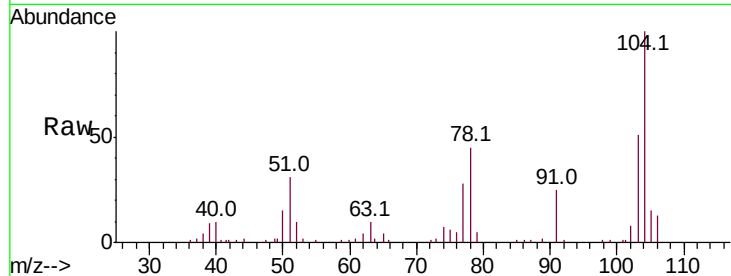
#69
Stvrene
Concen: 2.236 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VX009267.D
Acq: 02 May 2019 11:04

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT2-2019

Tot Ion	Ratio	Lower	Upper
104	100		
78	53.2	41.1	61.7
103	56.2	43.8	65.8

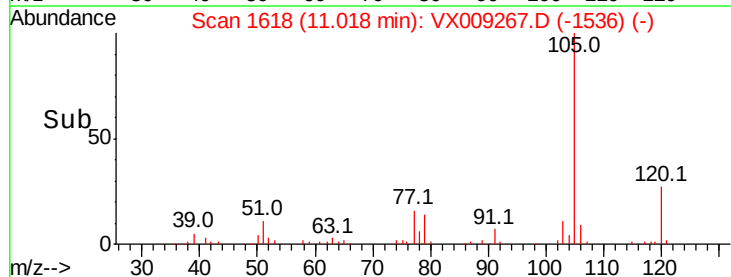
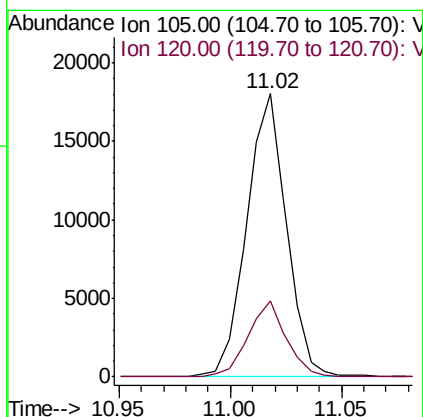
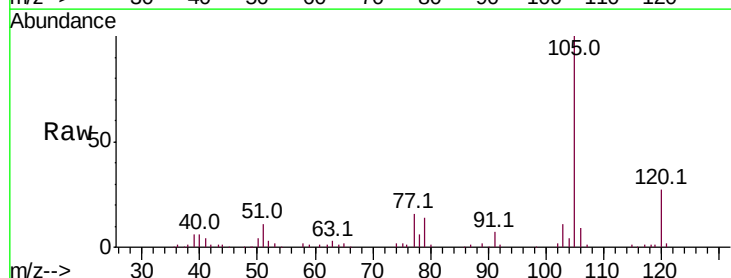
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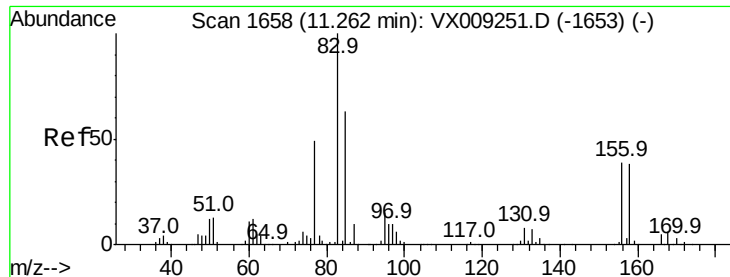
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5/3/2019 11:19:37 AM



#70
Isopropylbenzene
Concen: 2.411 ug/l
RT: 11.02 min Scan# 1618
Delta R.T. -0.00 min
Lab File: VX009267.D
Acq: 02 May 2019 11:04

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.9	18.1	33.7





#71

1,1,2,2-Tetrachloroethane

Concen: 2.511 ug/l

RT: 11.27 min Scan# 1659

Delta R.T. 0.01 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

Instrument :

MSVOA_X

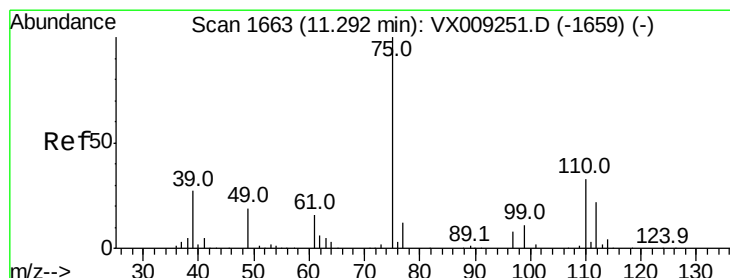
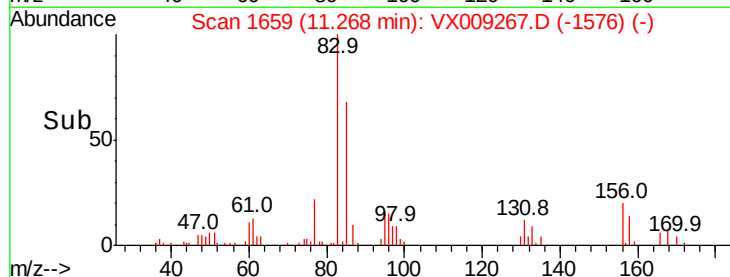
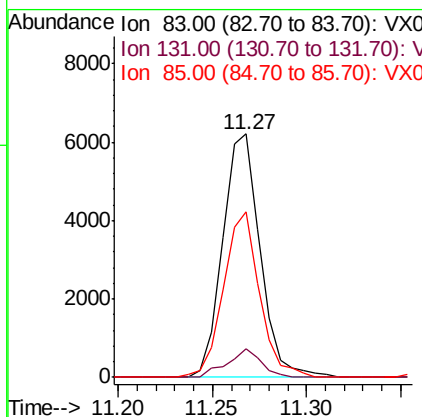
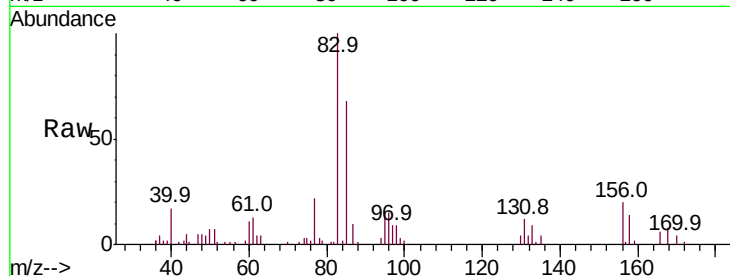
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:	83	Resp:	8544
Ion	Ratio	Lower	Upper
83	100		
131	10.6	4.7	14.0
85	65.6	32.4	97.2

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#72

1,2,3-Trichloropropane

Concen: 2.432 ug/l m

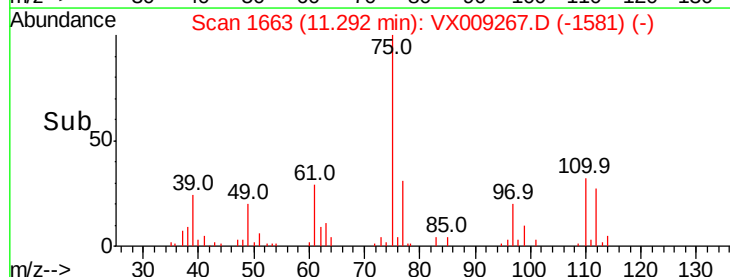
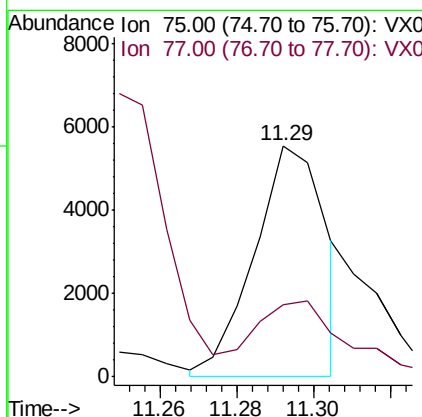
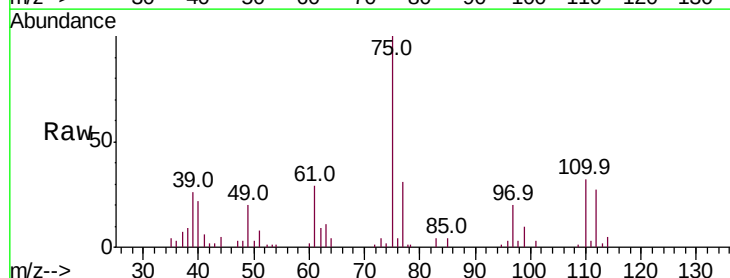
RT: 11.29 min Scan# 1663

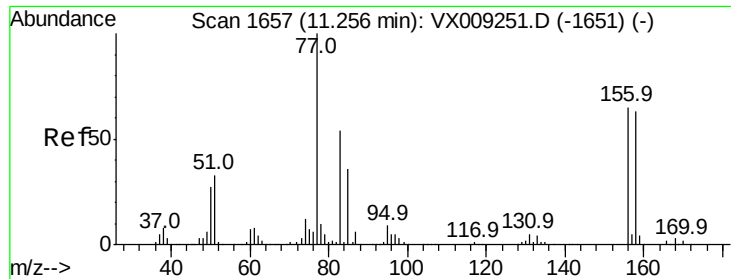
Delta R.T. -0.00 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

Tgt Ion:	75	Resp:	7131
Ion	Ratio	Lower	Upper
75	100		
77	43.5	0.0	86.4





#73

Bromobenzene

Concen: 2.540 ug/l

RT: 11.25 min Scan# 1656

Delta R.T. -0.01 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

Instrument :

MSVOA_X

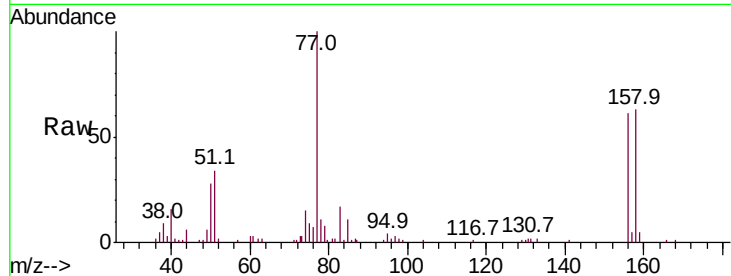
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

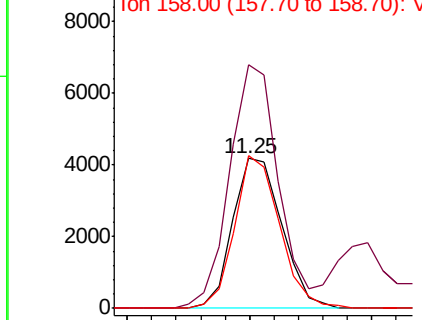
Tot Ion:	156	Resp:	5830
Ion	Ratio	Lower	Upper
156	100		
77	160.8	0.0	335.6
158	93.4	0.0	191.2

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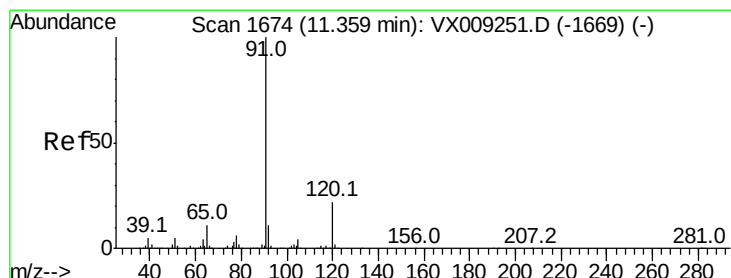
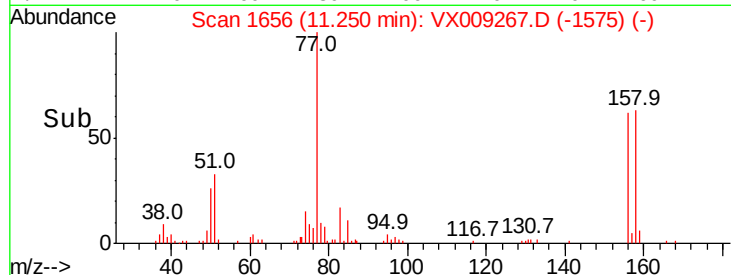
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Abundance Ion 156.00 (155.70 to 156.70): V
Ion 77.00 (76.70 to 77.70): VX0
Ion 158.00 (157.70 to 158.70): V



Time--> 11.20 11.25 11.30



#74

n-propylbenzene

Concen: 2.333 ug/l

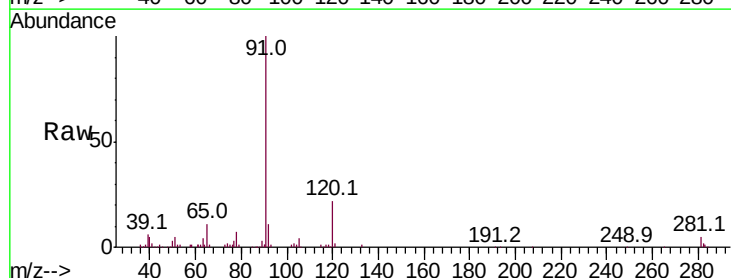
RT: 11.36 min Scan# 1674

Delta R.T. -0.00 min

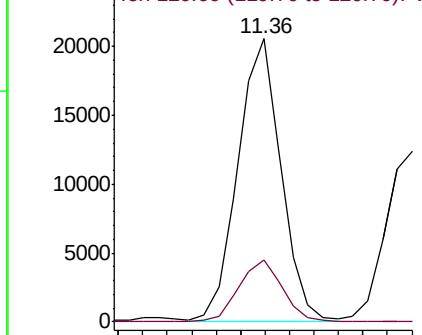
Lab File: VX009267.D

Acq: 02 May 2019 11:04

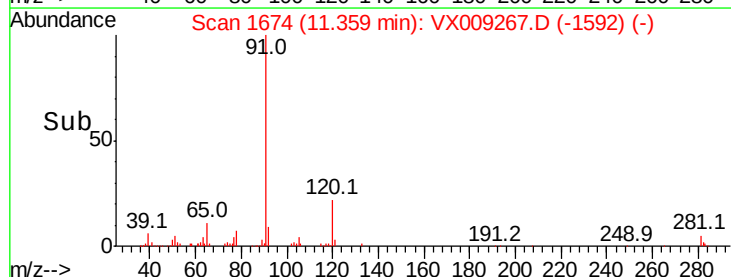
Tgt Ion:	91	Resp:	25116
Ion	Ratio	Lower	Upper
91	100		
120	22.1	0.0	43.4

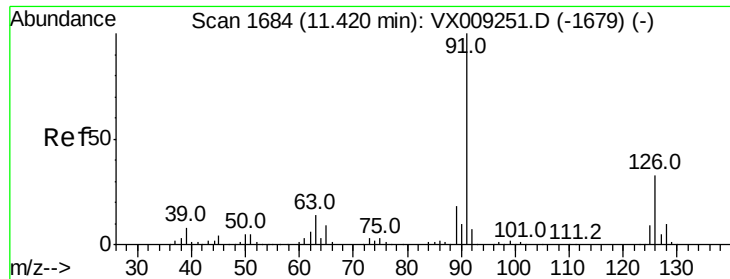


Abundance Ion 91.00 (90.70 to 91.70): VX0
Ion 120.00 (119.70 to 120.70): V



Time--> 11.30 11.35 11.40





#75

2-Chlorotoluene

Concen: 2.460 ug/l

RT: 11.42 min Scan# 1684

Delta R.T. -0.00 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 91 Resp: 15886

Ion Ratio Lower Upper

91 100

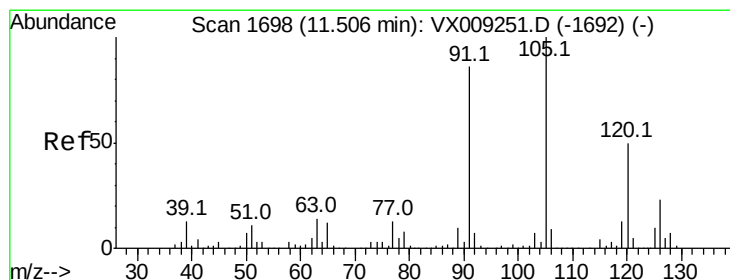
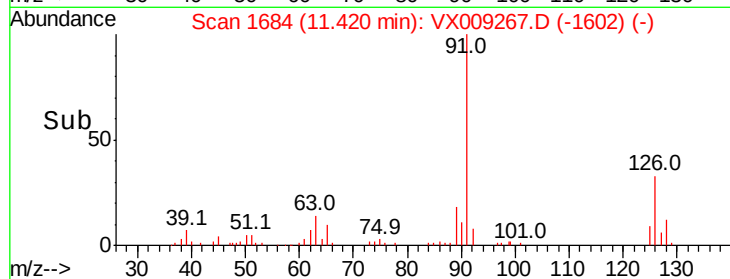
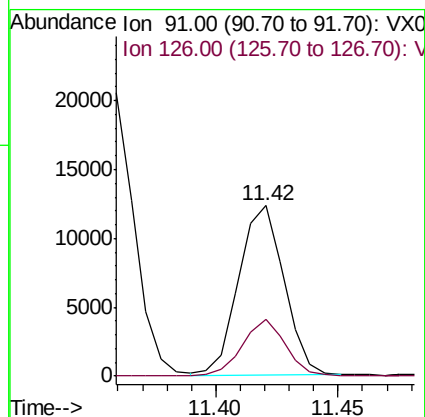
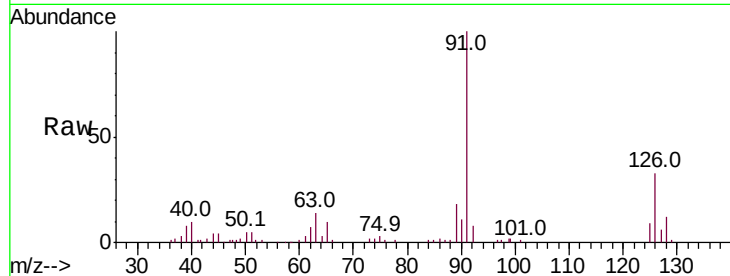
126 31.9 0.0 64.0

Manual Integrations

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#76

1,3,5-Trimethylbenzene

Concen: 2.384 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX009267.D

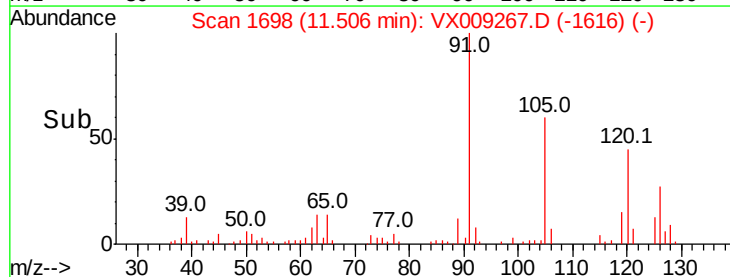
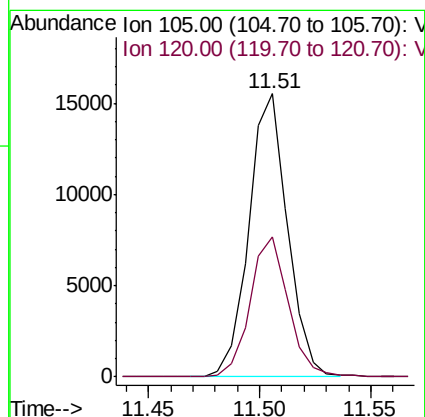
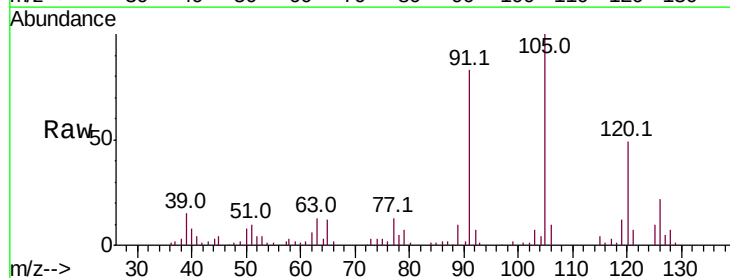
Acq: 02 May 2019 11:04

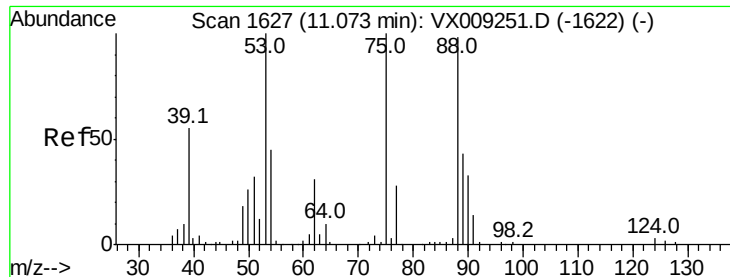
Tgt Ion: 105 Resp: 18763

Ion Ratio Lower Upper

105 100

120 48.9 0.0 97.4





#77

t-1,4-Dichloro-2-butene

Concen: 1.922 ug/l

RT: 11.07 min Scan# 1627

Delta R.T. -0.00 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

Instrument :

MSVOA_X

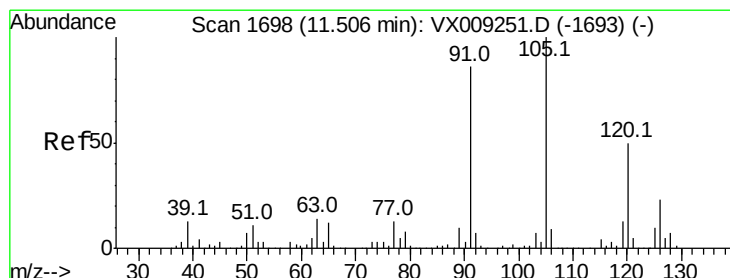
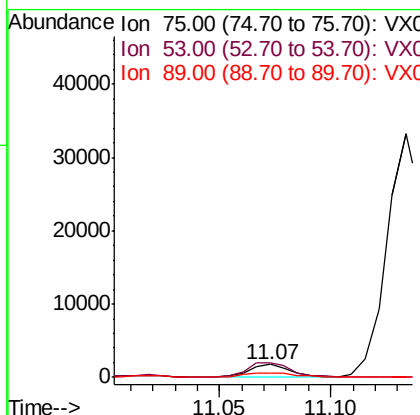
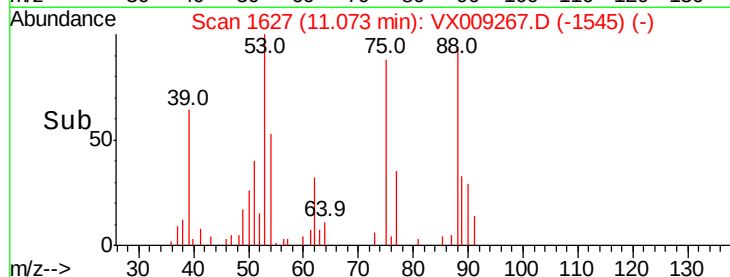
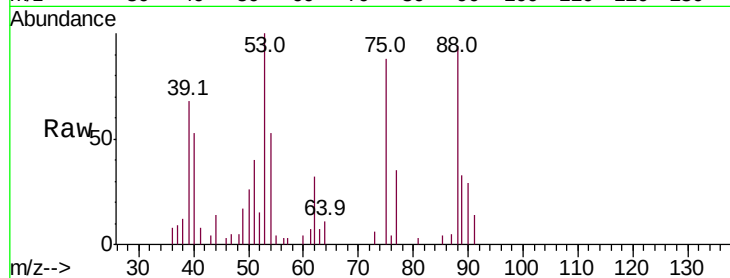
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:	75	Resp:	2273
Ion	Ratio	Lower	Upper
75	100		
53	113.8	50.0	149.8
89	38.1	21.6	65.0

Manual Integrations
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#78

4-Chlorotoluene

Concen: 2.441 ug/l

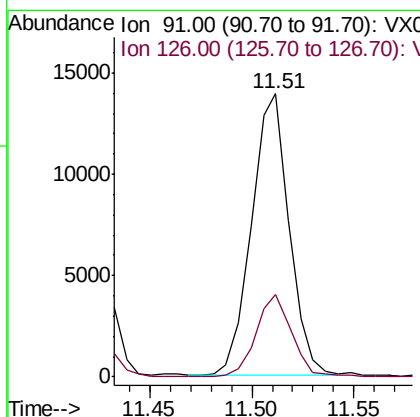
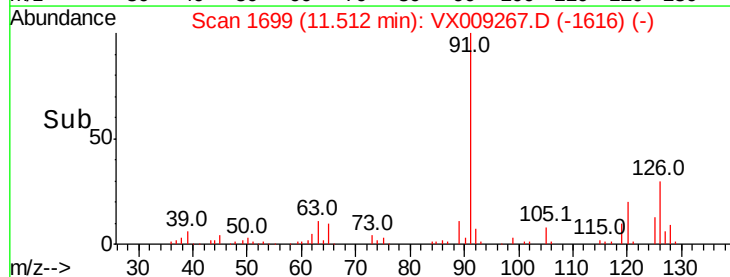
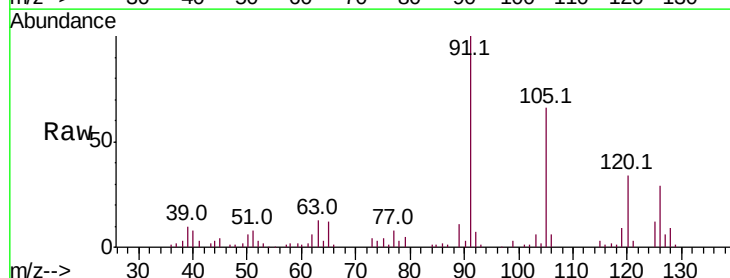
RT: 11.51 min Scan# 1699

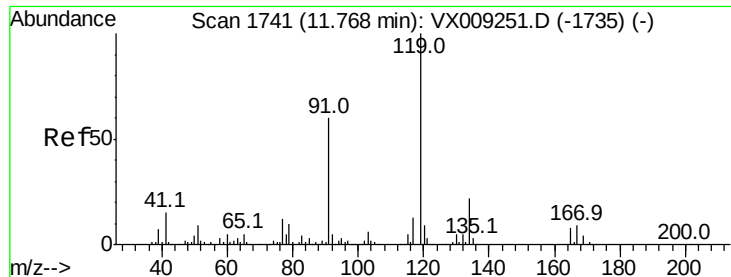
Delta R.T. 0.01 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

Tgt Ion:	91	Resp:	17901
Ion	Ratio	Lower	Upper
91	100		
126	27.8	0.0	57.0





#79

tert-butylbenzene

Concen: 2.435 ug/l

RT: 11.77 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

Instrument :

MSVOA_X

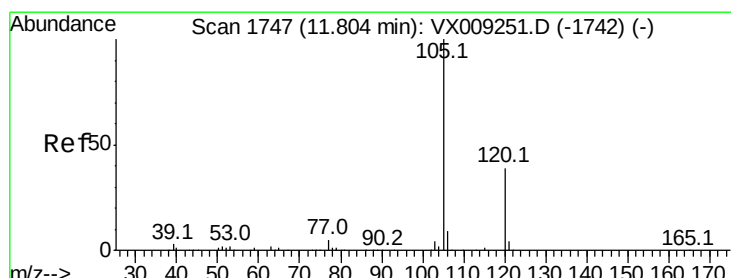
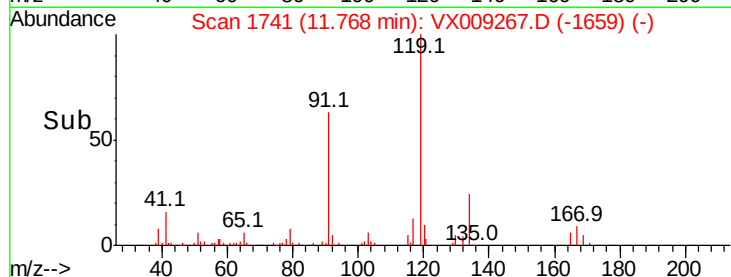
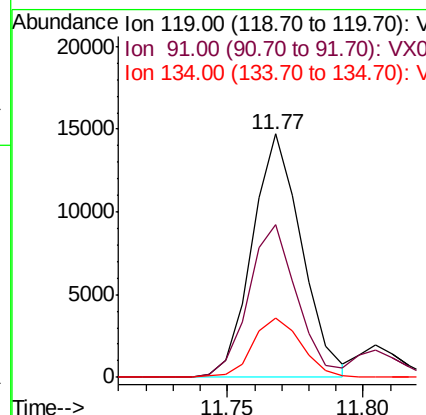
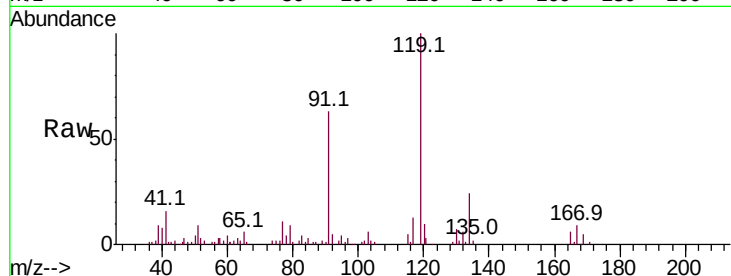
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:	119	Resp:	18526
Ion Ratio	Lower	Upper	
119	100		
91	62.0	0.0	118.2
134	24.1	0.0	45.0

Manual Integrations
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#80

1,2,4-Trimethylbenzene

Concen: 2.348 ug/l

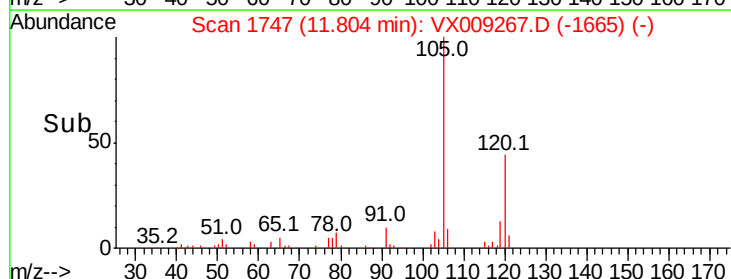
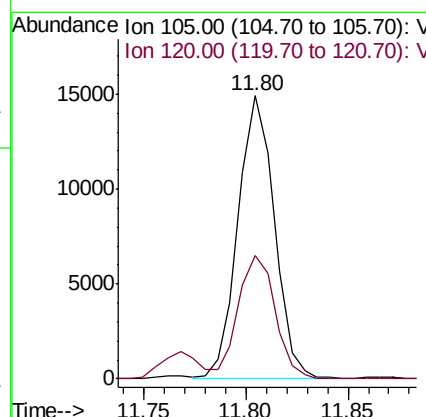
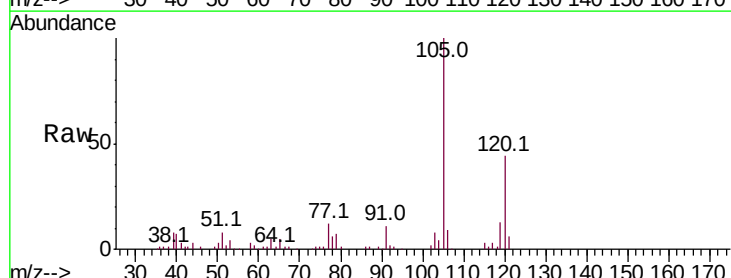
RT: 11.80 min Scan# 1747

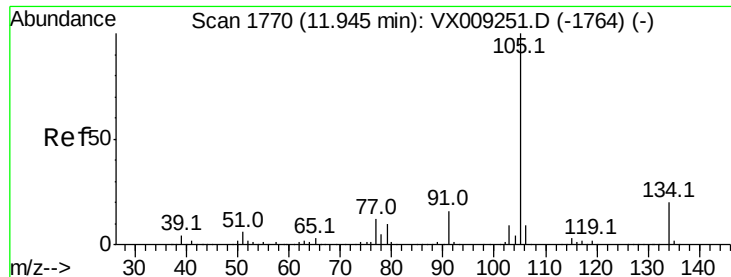
Delta R.T. -0.00 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

Tgt Ion:	105	Resp:	18518
Ion Ratio	Lower	Upper	
105	100		
120	43.7	0.0	89.6





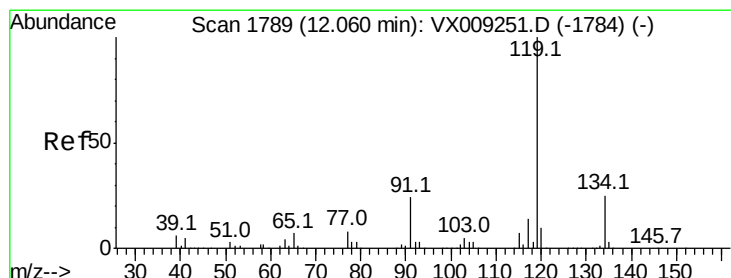
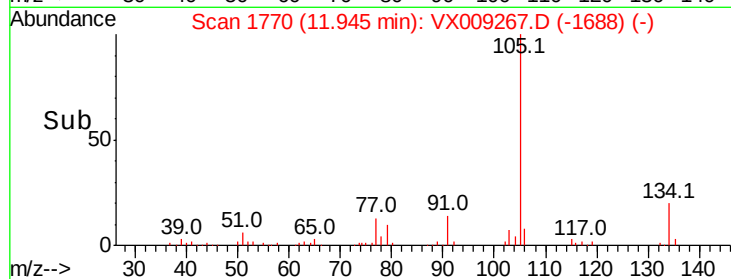
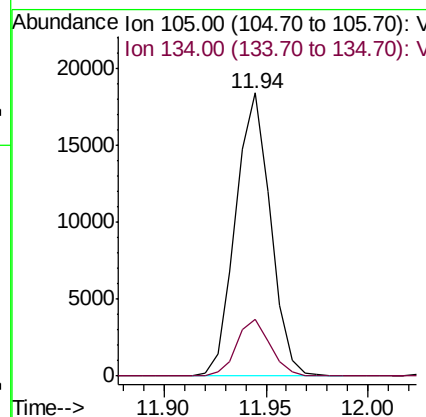
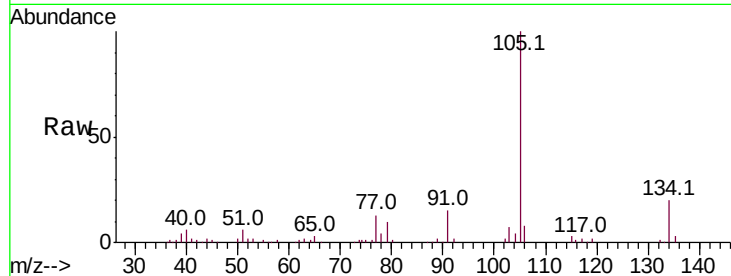
#81
 sec-Butylbenzene
 Concen: 2.412 ug/l
 RT: 11.94 min Scan# 1770
 Delta R.T. -0.00 min
 Lab File: VX009267.D
 Acq: 02 May 2019 11:04

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT2-2019

Tot Ion	Ratio	Resp	Lower	Upper
105	100	21801		
134	19.4	0.0	38.6	

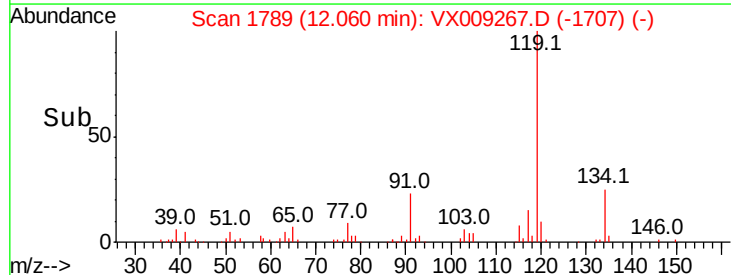
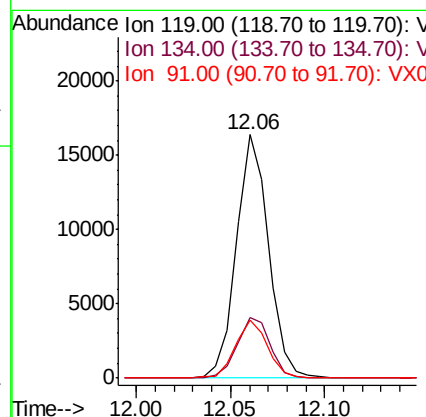
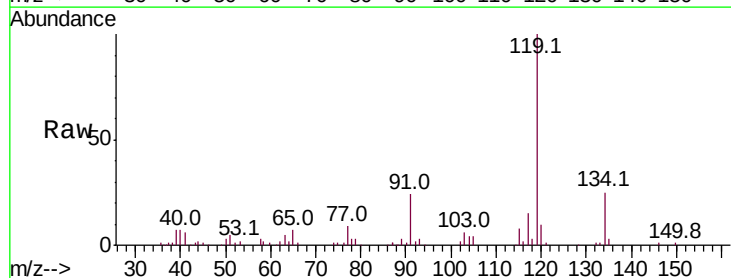
Manual Integrations
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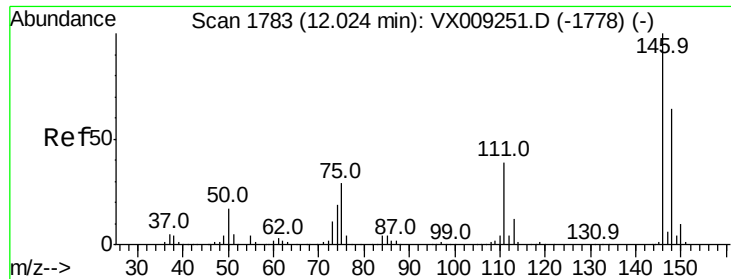
MMDadoda
 5/3/2019 11:19:37 AM



#82
 p-Isopropyltoluene
 Concen: 2.357 ug/l
 RT: 12.06 min Scan# 1789
 Delta R.T. -0.00 min
 Lab File: VX009267.D
 Acq: 02 May 2019 11:04

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	19383		
134	25.5	0.0	50.8	
91	23.6	0.0	47.2	





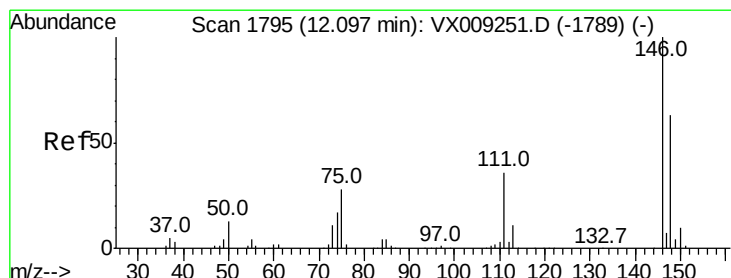
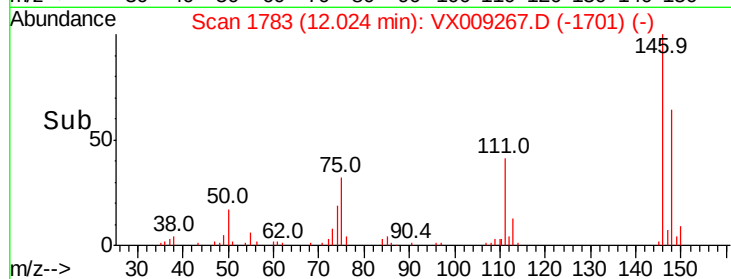
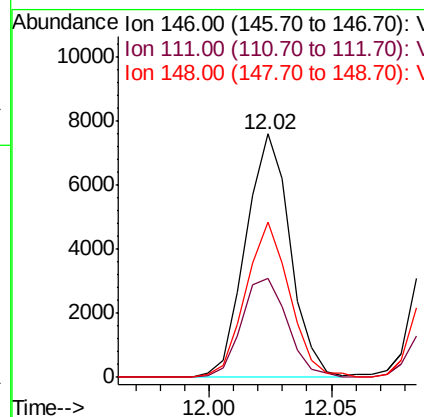
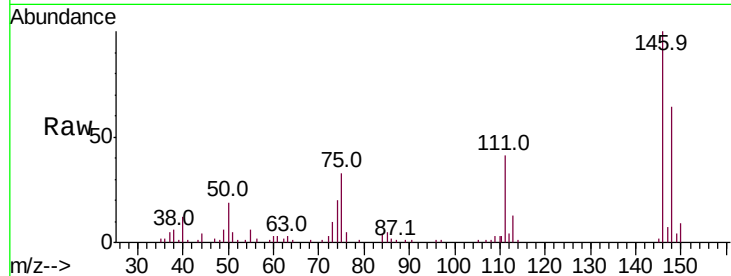
#83
 1,3-Dichlorobenzene
 Concen: 2.356 ug/l
 RT: 12.02 min Scan# 1783
 Delta R.T. -0.00 min
 Lab File: VX009267.D
 Acq: 02 May 2019 11:04

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT2-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.0	20.0	60.0
148	63.0	32.2	96.6

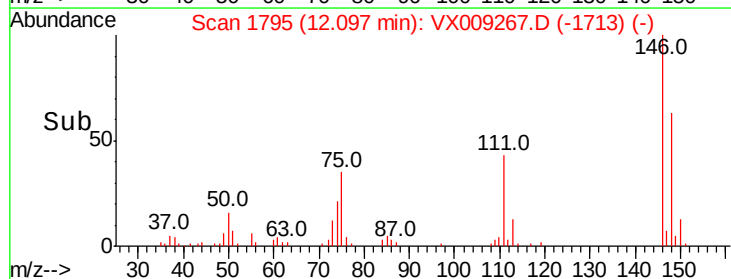
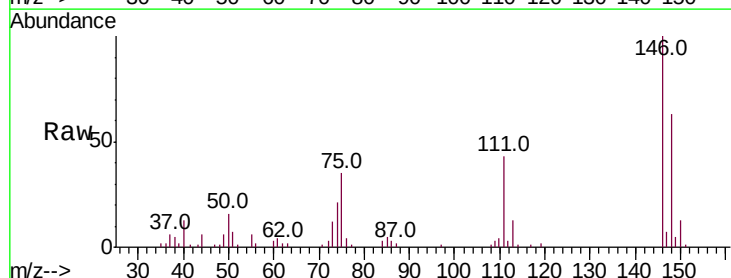
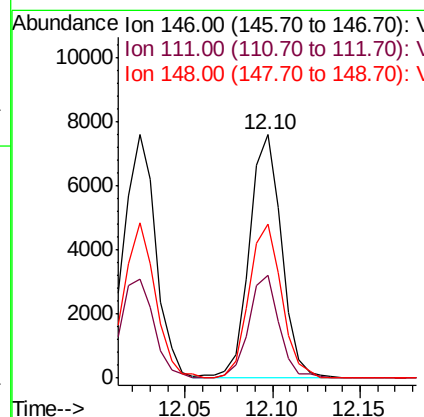
Manual Integrations
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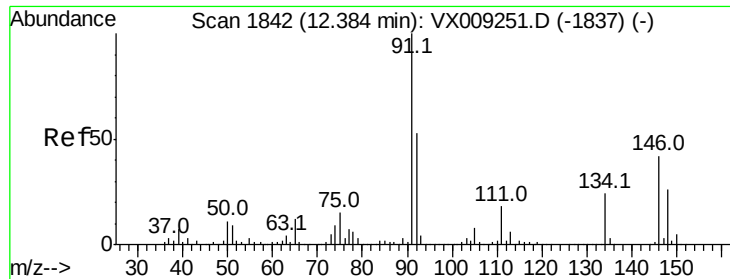
MMDadoda
 5/3/2019 11:19:37 AM



#84
 1,4-Dichlorobenzene
 Concen: 2.395 ug/l
 RT: 12.10 min Scan# 1795
 Delta R.T. -0.00 min
 Lab File: VX009267.D
 Acq: 02 May 2019 11:04

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.7	19.6	58.7
148	64.0	32.3	96.8





#85

n-Butylbenzene

Concen: 2.192 ug/l

RT: 12.38 min Scan# 1842

Delta R.T. -0.00 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

Instrument :

MSVOA_X

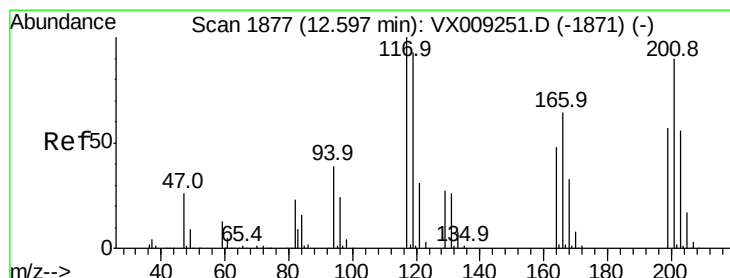
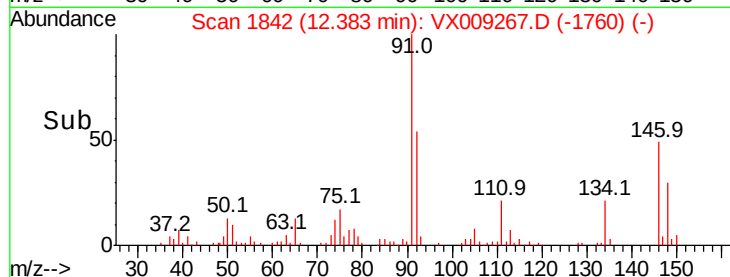
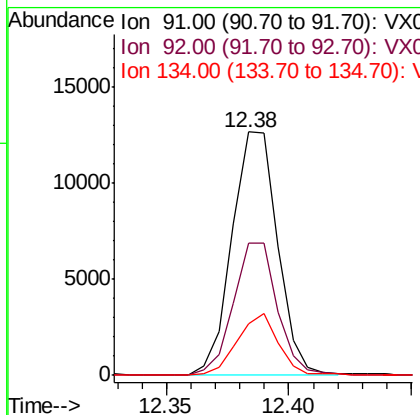
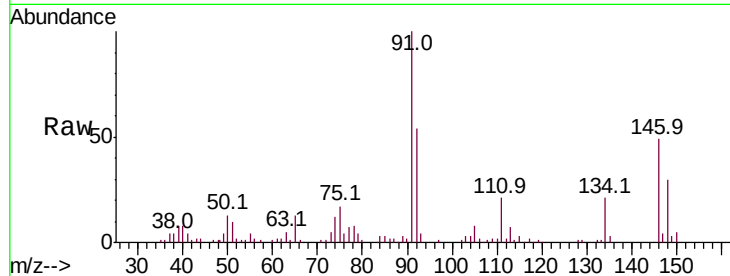
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:	91	Resp:	16495
Ion Ratio	Lower	Upper	
91	100		
92	52.6	0.0	106.6
134	22.8	0.0	50.0

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#86

Hexachloroethane

Concen: 2.232 ug/l

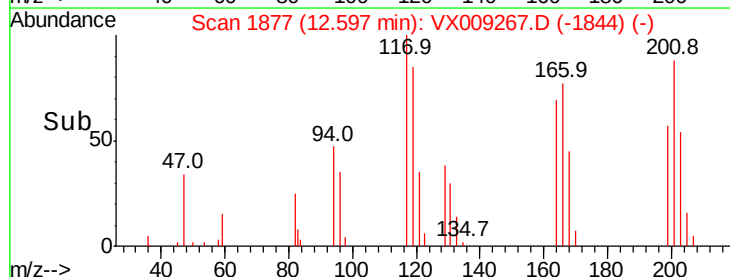
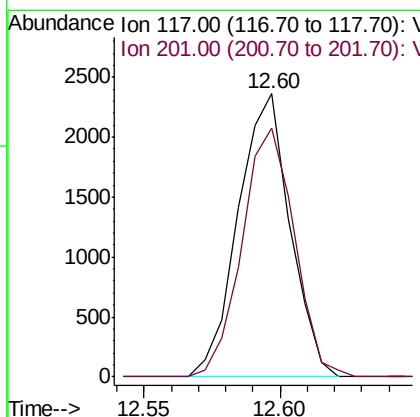
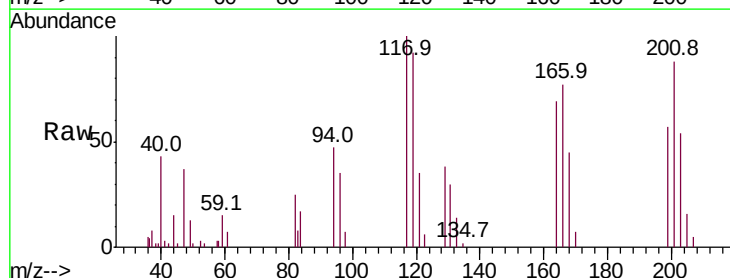
RT: 12.60 min Scan# 1877

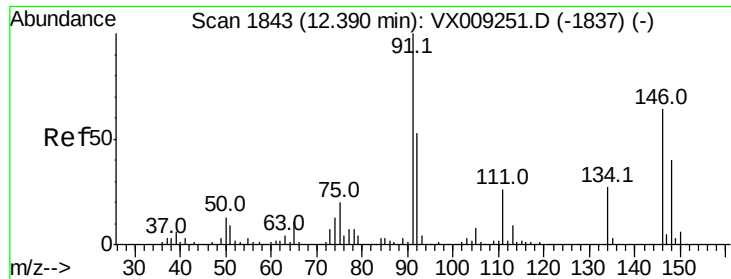
Delta R.T. -0.00 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

Tgt Ion:	117	Resp:	3123
Ion Ratio	Lower	Upper	
117	100		
201	88.6	41.8	125.4





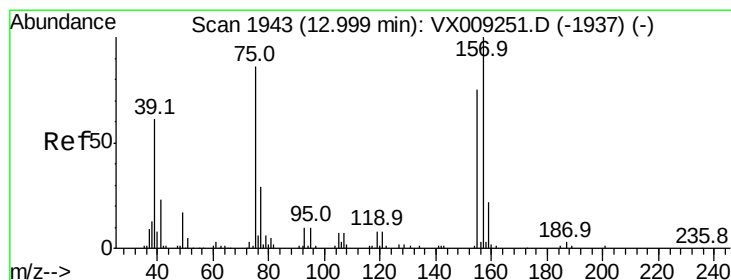
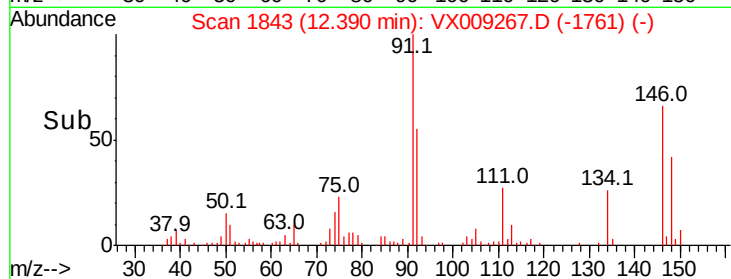
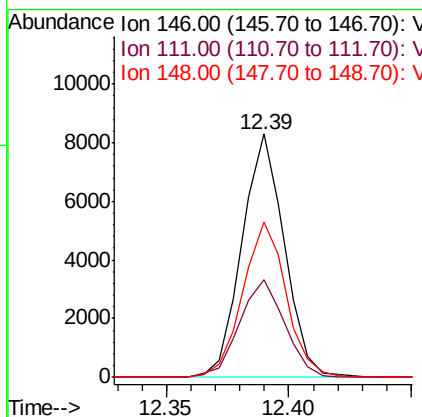
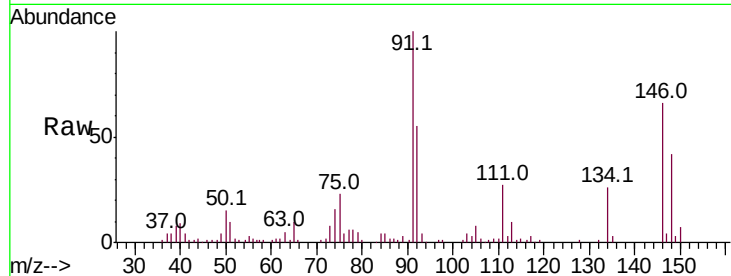
#87
 1,2-Dichlorobenzene
 Concen: 2.420 ug/l
 RT: 12.39 min Scan# 1843
 Delta R.T. -0.00 min
 Lab File: VX009267.D
 Acq: 02 May 2019 11:04

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT2-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.8	20.8	62.2
148	65.7	31.4	94.3

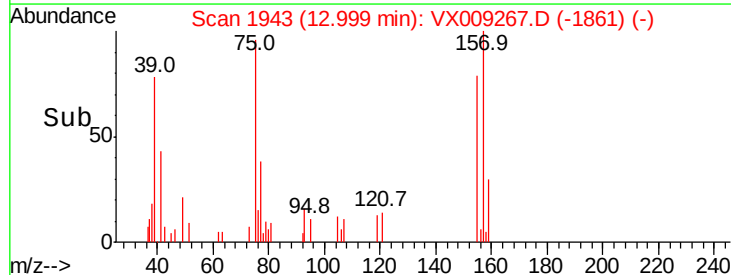
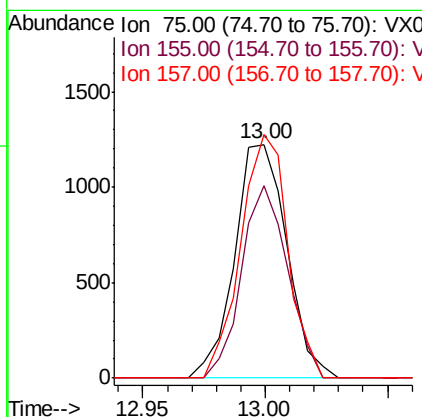
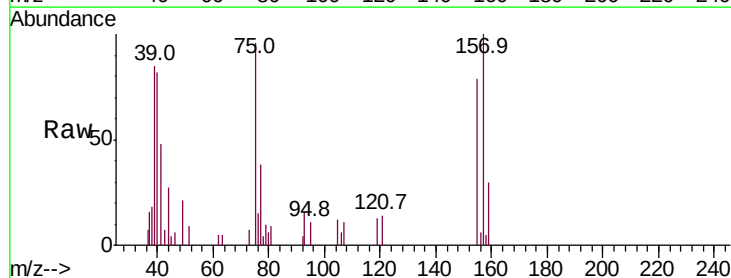
Manual Integrations
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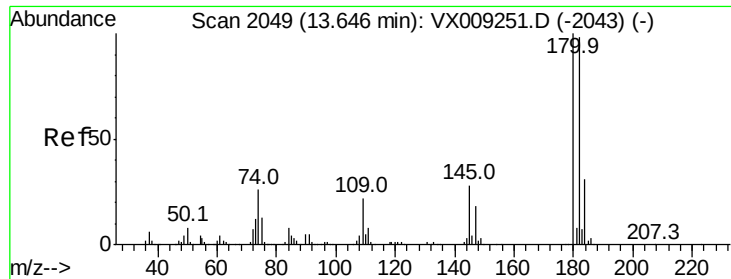
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 5/3/2019 11:19:37 AM



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 2.303 ug/l
 RT: 13.00 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VX009267.D
 Acq: 02 May 2019 11:04

Tgt Ion	Ratio	Lower	Upper
75	100		
155	72.8	65.9	98.9
157	93.7	85.2	127.8





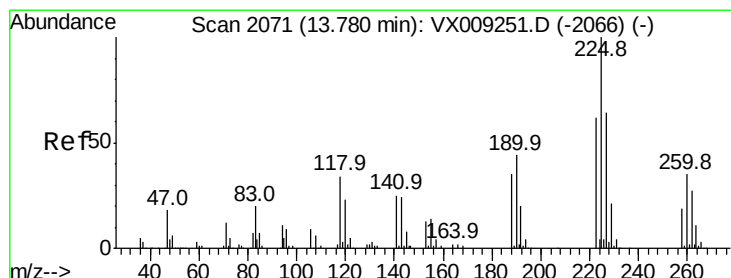
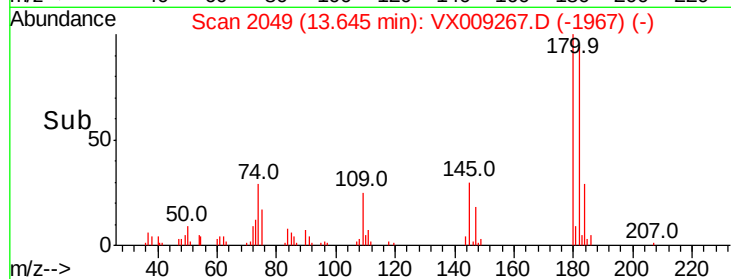
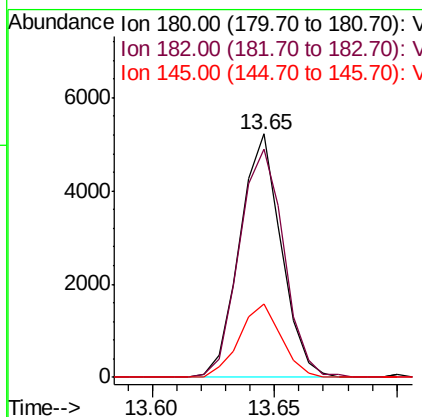
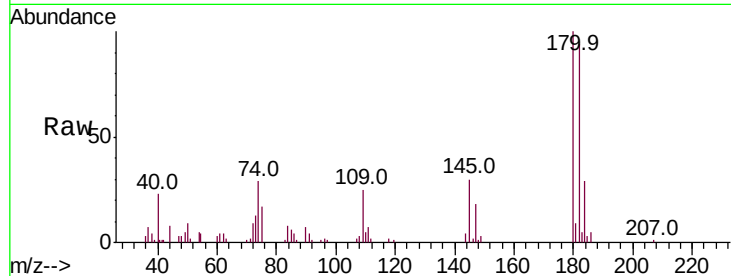
#89
 1,2,4-Trichlorobenzene
 Concen: 2.105 ug/l
 RT: 13.65 min Scan# 2049
 Delta R.T. -0.00 min
 Lab File: VX009267.D
 Acq: 02 May 2019 11:04

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT2-2019

Tot Ion	Ratio	Resp	Lower	Upper
180	100	6191		
182	100.2	76.9	115.3	
145	30.1	23.0	34.6	

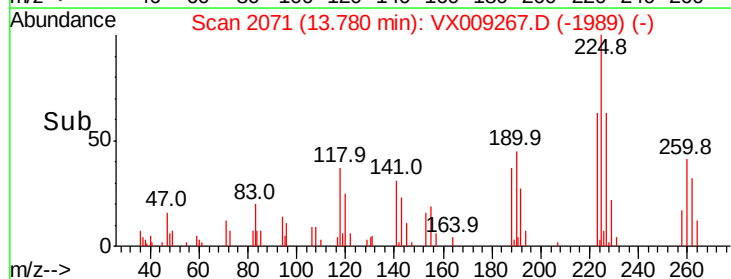
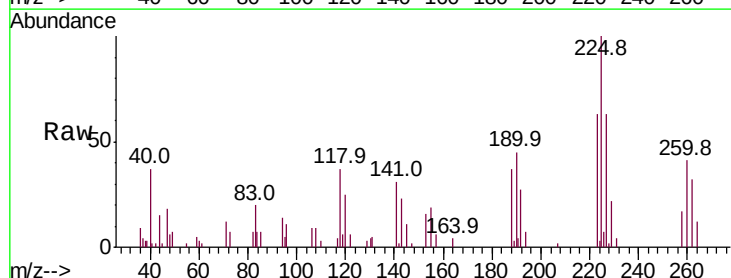
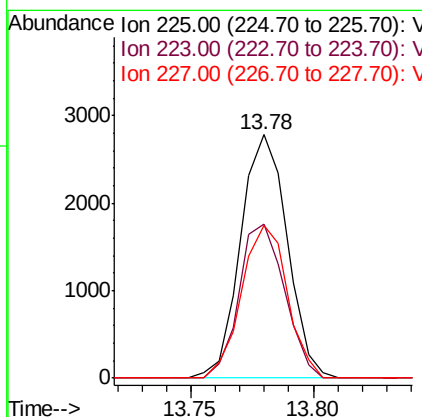
Manual Integrations
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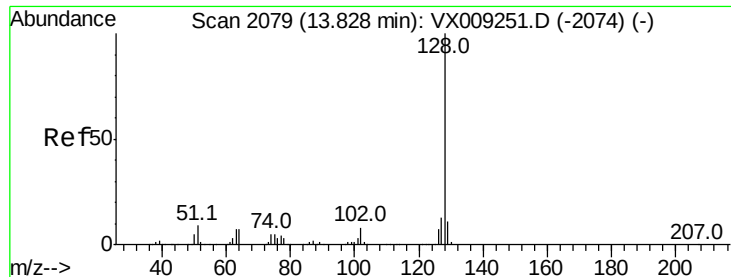
MMDadoda
 5/3/2019 11:19:37 AM



#90
 Hexachlorobutadiene
 Concen: 2.508 ug/l
 RT: 13.78 min Scan# 2071
 Delta R.T. -0.00 min
 Lab File: VX009267.D
 Acq: 02 May 2019 11:04

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	3685		
223	61.7	0.0	126.6	
227	61.5	0.0	130.0	





#91

Naphthalene

Concen: 2.081 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.01 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

Instrument :

MSVOA_X

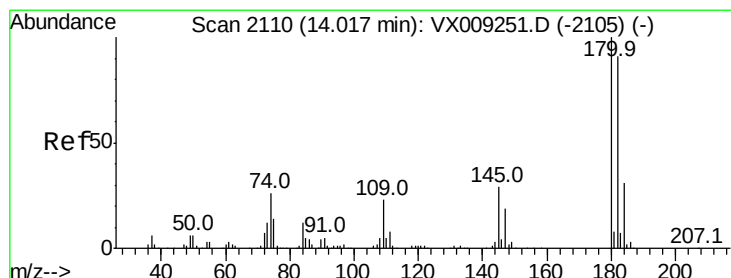
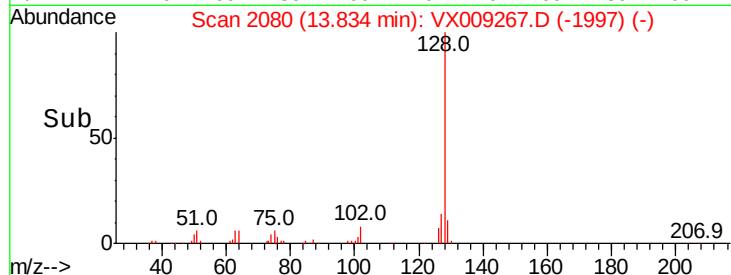
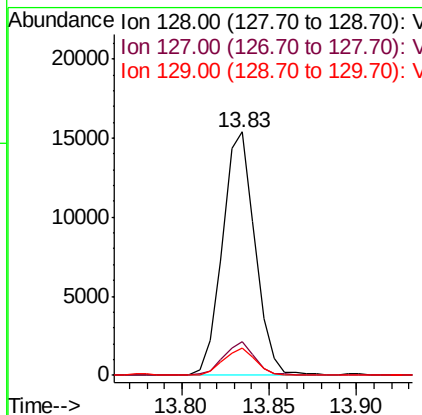
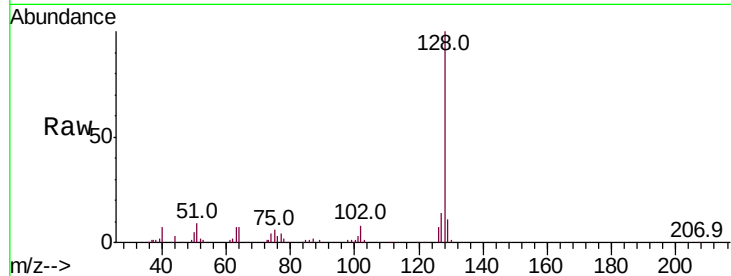
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:128	Resp:	20040
Ion Ratio	Lower	Upper
128 100		
127 13.5	10.5	15.7
129 11.0	8.7	13.1

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#92

1,2,3-Trichlorobenzene

Concen: 2.286 ug/l

RT: 14.02 min Scan# 2110

Delta R.T. -0.00 min

Lab File: VX009267.D

Acq: 02 May 2019 11:04

Tgt Ion:180	Resp:	6835
Ion Ratio	Lower	Upper
180 100		
182 94.9	0.0	189.0
145 31.2	0.0	61.6

