

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101519\
 Data File : VX013077.D
 Acq On : 15 Oct 2019 14:54
 Operator : JC/SP
 Sample : K5111-07 2.5PPB MDL
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

Quant Time: Oct 16 05:59:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 11 09:48:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	163911	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	273419	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	241807	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	107092	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	103602	50.57	ug/l	0.00
Spiked Amount			Recovery	=	101.14%	
35) Dibromofluoromethane	5.49	113	80522	51.31	ug/l	0.00
Spiked Amount			Recovery	=	102.62%	
50) Toluene-d8	8.71	98	306986	50.16	ug/l	0.00
Spiked Amount			Recovery	=	100.32%	
62) 4-Bromofluorobenzene	11.14	95	112805	47.43	ug/l	0.00
Spiked Amount			Recovery	=	94.86%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	4543	2.719	ug/l	92
3) Chloromethane	1.32	50	4882	2.685	ug/l	98
4) Vinyl Chloride	1.40	62	4747	2.529	ug/l	98
5) Bromomethane	1.63	94	2780	3.563	ug/l	89
6) Chloroethane	1.71	64	3965	3.801	ug/l	94
7) Trichlorofluoromethane	1.92	101	7439	2.937	ug/l	98
8) Diethyl Ether	2.18	74	2817	2.755	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	2.37	101	4512	2.752	ug/l	99
10) Methyl Iodide	2.50	142	3699	6.871	ug/l	95
11) Tert butyl alcohol	3.03	59	10432	19.209	ug/l #	92
12) 1,1-Dichloroethene	2.36	96	4508	2.722	ug/l	86
13) Acrolein	2.28	56	3964	10.271	ug/l	88
14) Allyl chloride	2.72	41	7504	2.544	ug/l	99
15) Acrylonitrile	3.14	53	13420	13.039	ug/l	99
16) Acetone	2.43	43	13064	12.098	ug/l	97
17) Carbon Disulfide	2.56	76	10573	2.239	ug/l #	87
18) Methyl Acetate	2.76	43	6848	2.675	ug/l	99
19) Methyl tert-butyl Ether	3.18	73	15451	2.701	ug/l #	89
20) Methylene Chloride	2.85	84	5591	2.817	ug/l	92
21) trans-1,2-Dichloroethene	3.16	96	4825	2.718	ug/l	90
22) Diisopropyl ether	3.84	45	14838	2.625	ug/l #	77
23) Vinyl Acetate	3.80	43	58482	11.985	ug/l	100
24) 1,1-Dichloroethane	3.69	63	8955	2.816	ug/l	98
25) 2-Butanone	4.67	43	18870	12.596	ug/l #	89
26) 2,2-Dichloropropane	4.58	77	6747	2.523	ug/l	97
27) cis-1,2-Dichloroethene	4.59	96	5634	2.753	ug/l	97
28) Bromochloromethane	5.00	49	2633	2.344	ug/l #	96
29) Tetrahydrofuran	5.12	42	12932	14.027	ug/l	98
30) Chloroform	5.20	83	9157	2.806	ug/l	92
31) Cyclohexane	5.58	56	7644	2.571	ug/l #	88
32) 1,1,1-Trichloroethane	5.48	97	7638	2.763	ug/l	95
36) 1,1-Dichloropropene	5.79	75	6310	2.625	ug/l	96
37) Ethyl Acetate	4.83	43	6907	2.570	ug/l #	87
38) Carbon Tetrachloride	5.78	117	6061	2.590	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.45	83	7816	2.681	ug/l	93
40) Benzene	6.13	78	19547	2.753	ug/l	100
41) Methacrylonitrile	5.03	41	3836	2.597	ug/l	98
42) 1,2-Dichloroethane	6.18	62	7144	2.804	ug/l	97
43) Isopropyl Acetate	6.43	43	10561	2.448	ug/l #	93
44) Trichloroethene	7.21	130	5257	2.670	ug/l	91
45) 1,2-Dichloropropane	7.51	63	4881	2.697	ug/l	92
46) Dibromomethane	7.65	93	3326	2.759	ug/l	98
47) Bromodichloromethane	7.89	83	6015	2.557	ug/l #	92
48) Methyl methacrylate	7.76	41	5135	2.442	ug/l	98
49) 1,4-Dioxane	7.73	88	2851	83.843	ug/l	92
51) 4-Methyl-2-Pentanone	8.64	43	34547	12.843	ug/l	100
52) Toluene	8.78	92	12492	2.750	ug/l	99
53) t-1,3-Dichloropropene	9.04	75	5768	4.048	ug/l	99
54) cis-1,3-Dichloropropene	8.43	75	6656	2.300	ug/l	92
55) 1,1,2-Trichloroethane	9.21	97	4734	2.634	ug/l	97
56) Ethyl methacrylate	9.17	69	6982	3.921	ug/l	97
57) 1,3-Dichloropropane	9.37	76	8654	2.783	ug/l	97
58) 2-Chloroethyl Vinyl ether	8.31	63	14478	10.964	ug/l	98
59) 2-Hexanone	9.49	43	26144	12.486	ug/l	97
60) Dibromochloromethane	9.58	129	4033	3.798	ug/l	99
61) 1,2-Dibromoethane	9.67	107	4725	2.499	ug/l	96
64) Tetrachloroethene	9.34	164	5241	3.125	ug/l	95
65) Chlorobenzene	10.14	112	13494	2.810	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.21	131	4270	2.565	ug/l	99
67) Ethyl Benzene	10.25	91	23158	2.715	ug/l	97
68) m/p-Xylenes	10.35	106	17407	5.463	ug/l	98
69) o-Xylene	10.70	106	8036	2.586	ug/l	92
70) Styrene	10.71	104	12938	2.449	ug/l	97
71) Bromoform	10.85	173	2554	4.821	ug/l #	97
73) Isopropylbenzene	11.01	105	20936	2.659	ug/l	97
74) N-amyl acetate	10.89	43	7517	2.217	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.26	83	7306	2.790	ug/l	100
76) 1,2,3-Trichloropropane	11.29	75	7514	3.163	ug/l	85
77) Bromobenzene	11.25	156	5782	3.116	ug/l	93
78) n-propylbenzene	11.35	91	22669	2.616	ug/l	99
79) 2-Chlorotoluene	11.42	91	15747	2.892	ug/l	100
80) 1,3,5-Trimethylbenzene	11.50	105	18140	2.759	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.14	75	56526	60.280	ug/l #	10
82) 4-Chlorotoluene	11.51	91	16420	2.631	ug/l	94
83) tert-Butylbenzene	11.77	119	16752	2.612	ug/l	95
84) 1,2,4-Trimethylbenzene	11.80	105	17674	2.654	ug/l	96
85) sec-Butylbenzene	11.94	105	19797	2.664	ug/l	98
86) p-Isopropyltoluene	12.06	119	17388	2.523	ug/l	99
87) 1,3-Dichlorobenzene	12.03	146	9286	2.695	ug/l	99
88) 1,4-Dichlorobenzene	12.09	146	9335	2.675	ug/l	84
89) n-Butylbenzene	12.39	91	13830	2.388	ug/l	97
90) Hexachloroethane	12.59	117	2617	4.082	ug/l	99
91) 1,2-Dichlorobenzene	12.39	146	9489	2.809	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	12.99	75	1535	2.501	ug/l	91

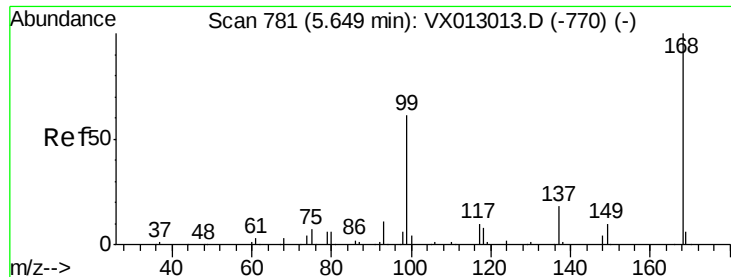
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.64	180	5237	2.475	ug/l	91
94) Hexachlorobutadiene	13.78	225	2542	2.603	ug/l	98
95) Naphthalene	13.83	128	16251	2.216	ug/l	98
96) 1,2,3-Trichlorobenzene	14.02	180	5158	2.359	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX013077.D

Acq: 15 Oct 2019 14:54

Instrument :

MSVOA_X

ClientSampleId :

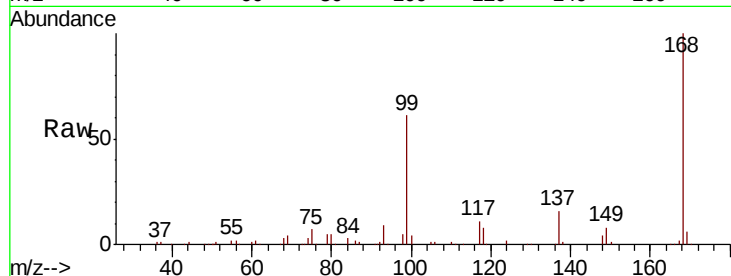
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:168 Resp: 163911

Ion Ratio Lower Upper

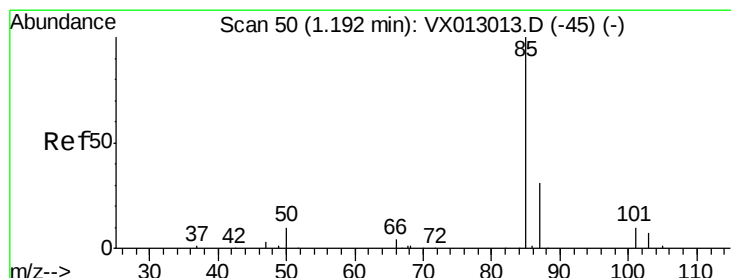
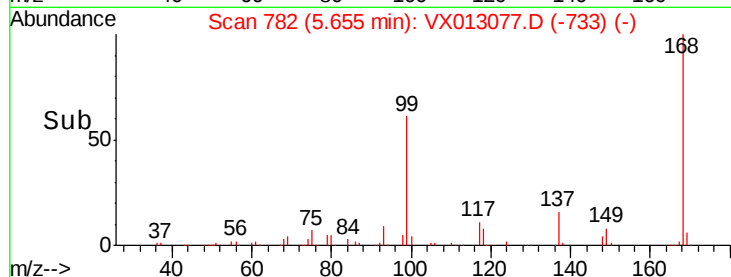
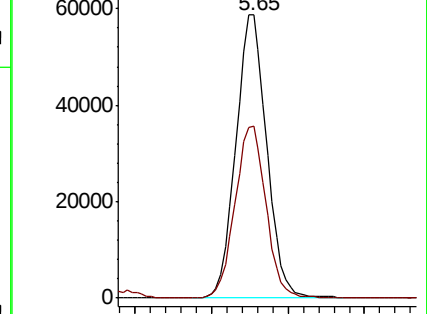
168 100

99 61.0 49.4 74.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 2.719 ug/l

RT: 1.19 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX013077.D

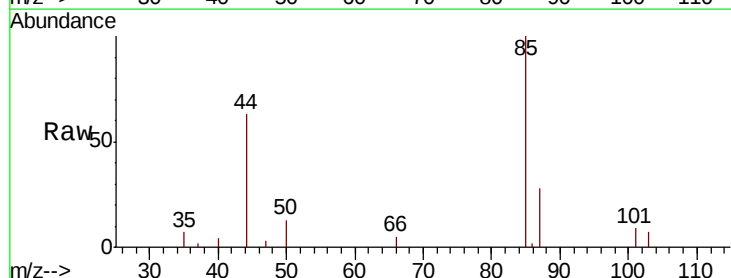
Acq: 15 Oct 2019 14:54

Tgt Ion: 85 Resp: 4543

Ion Ratio Lower Upper

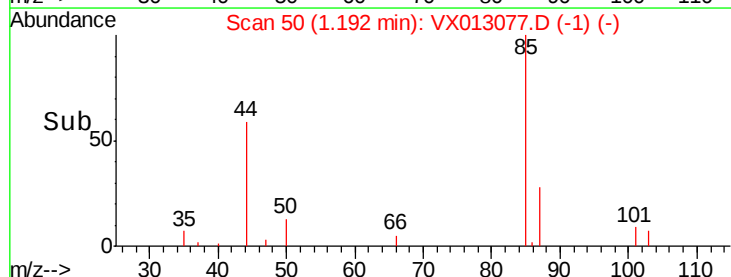
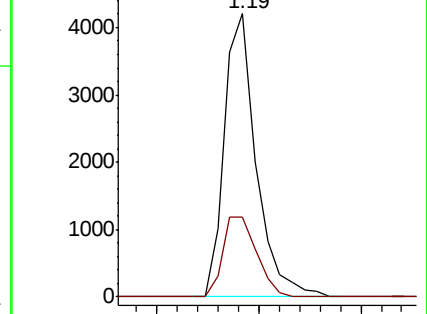
85 100

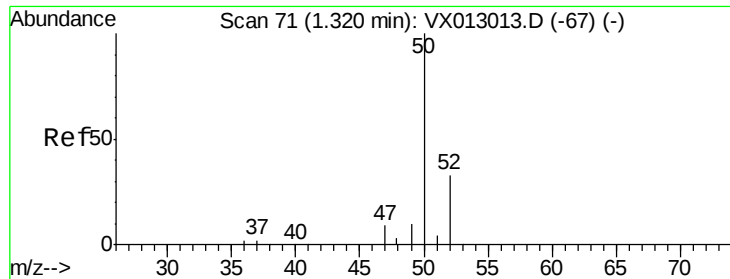
87 28.3 16.4 49.4



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

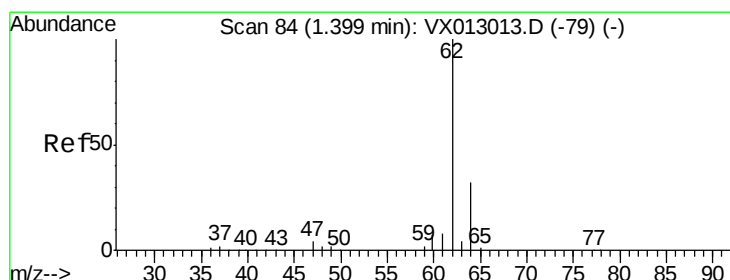
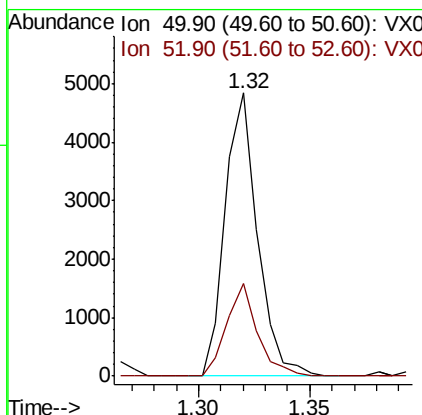
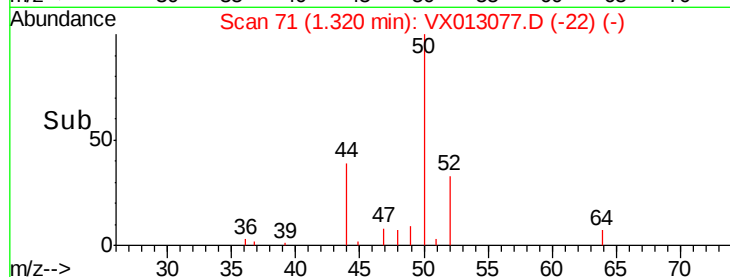
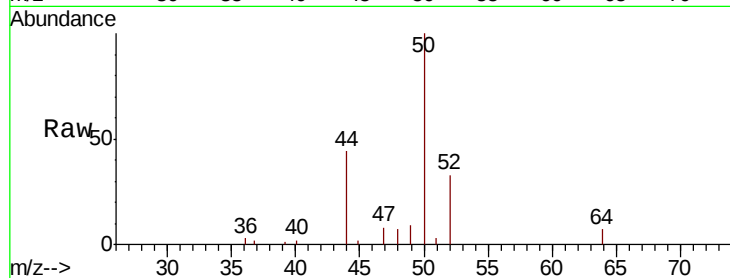




#3
 Chloromethane
 Concen: 2.685 ug/l
 RT: 1.32 min Scan# 71
 Delta R.T. -0.00 min
 Lab File: VX013077.D
 Acq: 15 Oct 2019 14:54

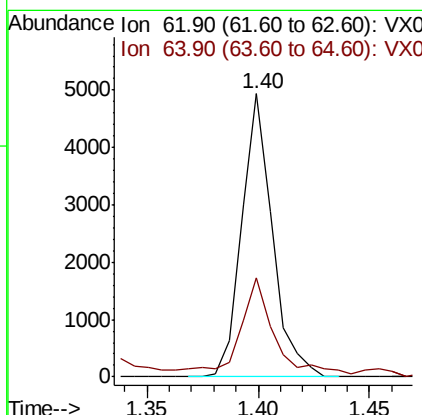
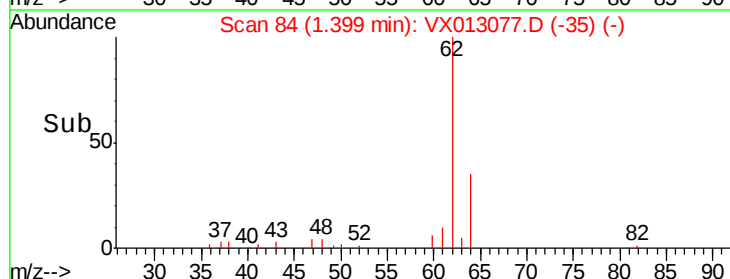
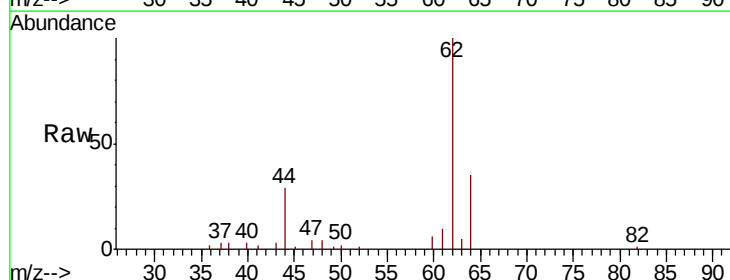
Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

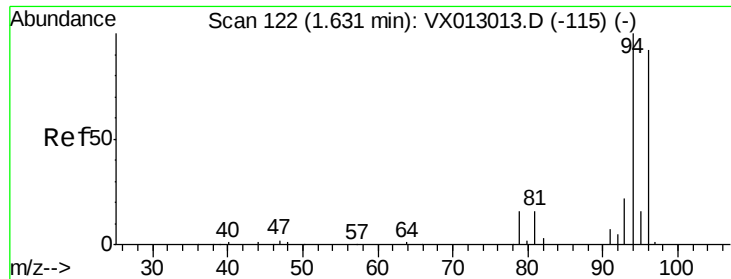
Tot Ion: 50 Resp: 4882
 Ion Ratio Lower Upper
 50 100
 52 32.6 25.2 37.8



#4
 Vinyl Chloride
 Concen: 2.529 ug/l
 RT: 1.40 min Scan# 84
 Delta R.T. -0.00 min
 Lab File: VX013077.D
 Acq: 15 Oct 2019 14:54

Tgt Ion: 62 Resp: 4747
 Ion Ratio Lower Upper
 62 100
 64 32.5 25.3 37.9





#5

Bromomethane

Concen: 3.563 ug/l

RT: 1.63 min Scan# 122

Delta R.T. -0.00 min

Lab File: VX013077.D

Acq: 15 Oct 2019 14:54

Instrument :

MSVOA_X

ClientSampleId :

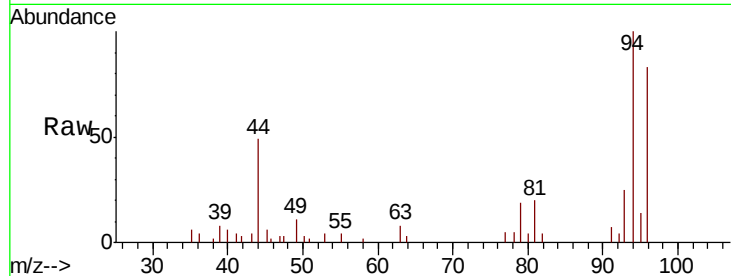
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 94 Resp: 2780

Ion Ratio Lower Upper

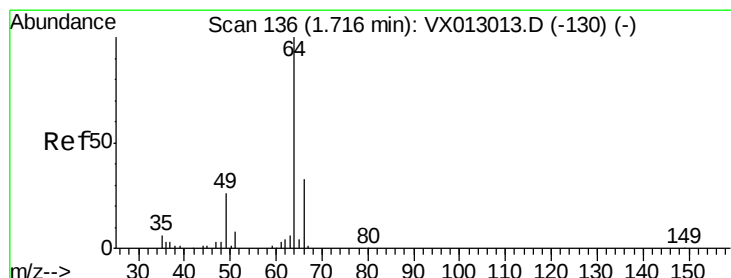
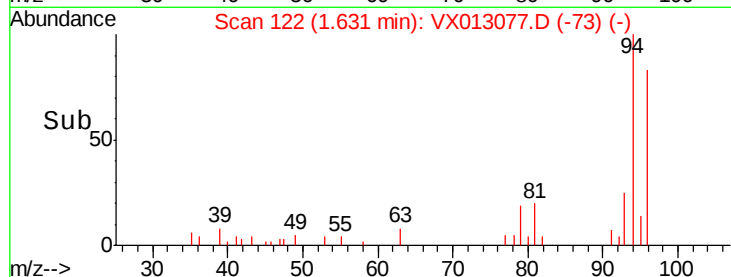
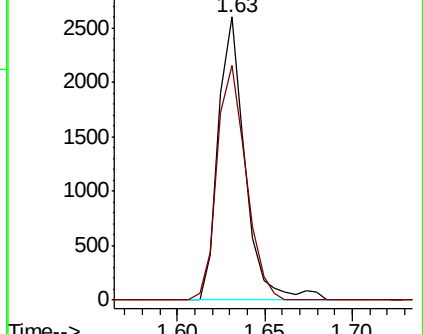
94 100

96 82.9 74.7 112.1



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 3.801 ug/l

RT: 1.71 min Scan# 135

Delta R.T. 0.00 min

Lab File: VX013077.D

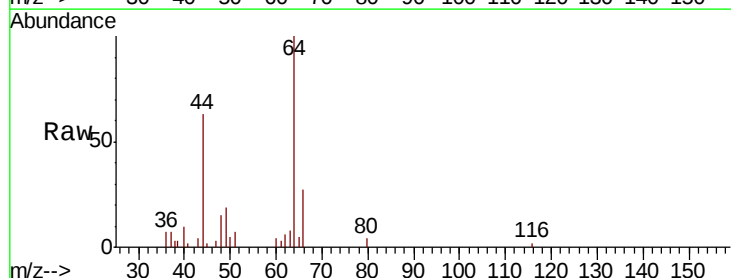
Acq: 15 Oct 2019 14:54

Tgt Ion: 64 Resp: 3965

Ion Ratio Lower Upper

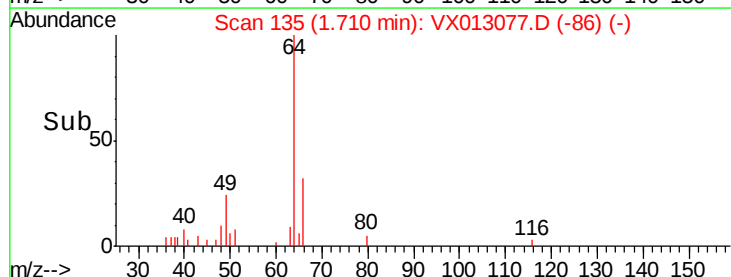
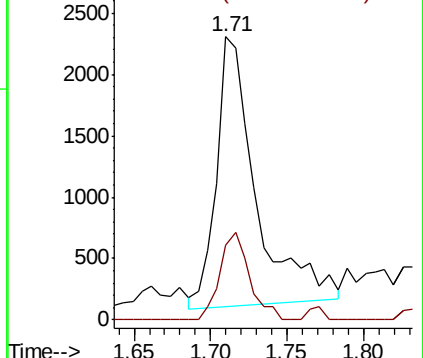
64 100

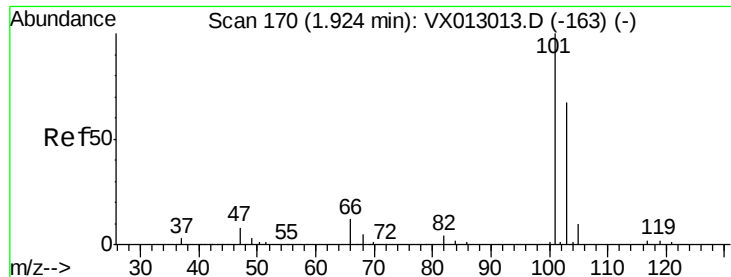
66 28.9 25.6 38.4



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



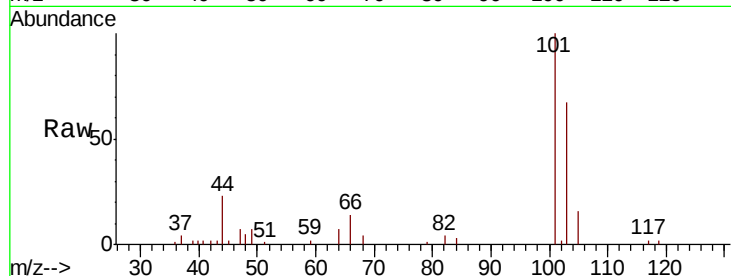


#7

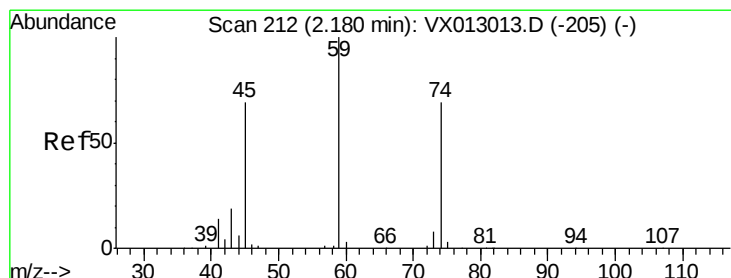
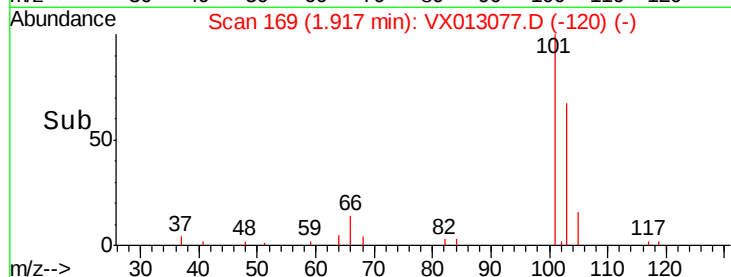
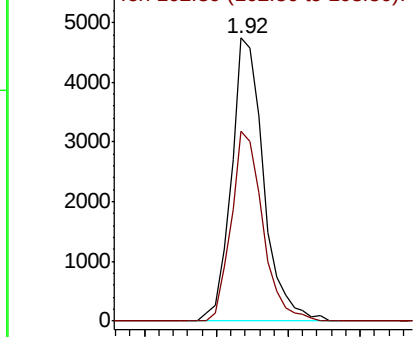
Trichlorofluoromethane
 Concen: 2.937 ug/l
 RT: 1.92 min Scan# 169
 Delta R.T. -0.00 min
 Lab File: VX013077.D
 Acq: 15 Oct 2019 14:54

Instrument :
 MSVOA_X
 ClientSampleId :
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Tot Ion:101 Resp: 7439
 Ion Ratio Lower Upper
 101 100
 103 67.2 52.5 78.7



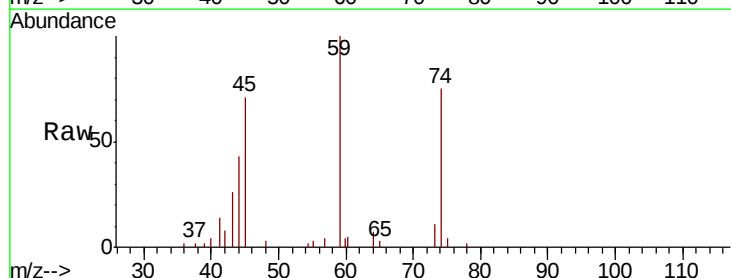
Abundance Ion 100.90 (100.60 to 101.60): V
 Ion 102.80 (102.50 to 103.50): V



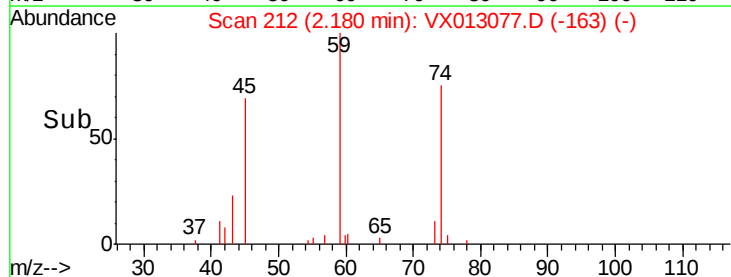
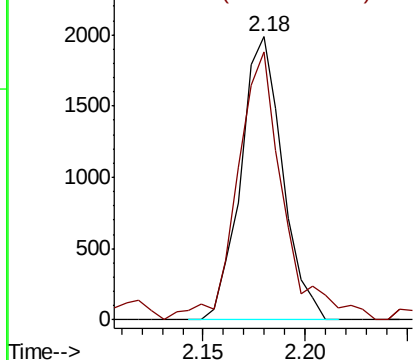
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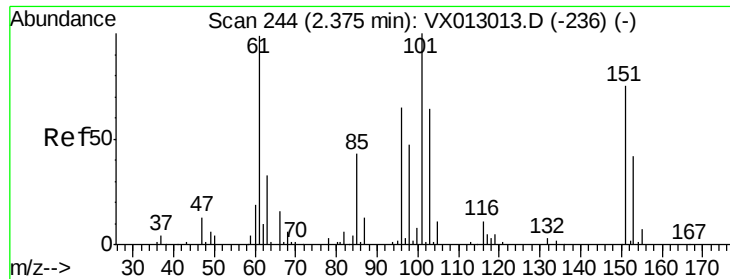
Diethyl Ether
 Concen: 2.755 ug/l
 RT: 2.18 min Scan# 212
 Delta R.T. -0.00 min
 Lab File: VX013077.D
 Acq: 15 Oct 2019 14:54

Tgt Ion: 74 Resp: 2817
 Ion Ratio Lower Upper
 74 100
 45 104.2 47.8 143.4



Abundance Ion 74.00 (73.70 to 74.70): VX0
 Ion 45.00 (44.70 to 45.70): VX0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.752 ug/l

RT: 2.37 min Scan# 243

Delta R.T. -0.01 min

Lab File: VX013077.D

Acq: 15 Oct 2019 14:54

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

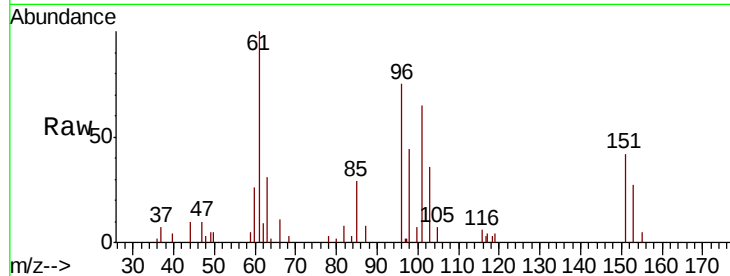
Tot Ion:101 Resp: 4512

Ion Ratio Lower Upper

101 100

85 43.5 35.2 52.8

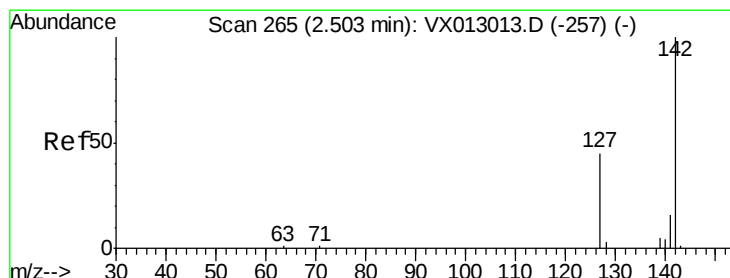
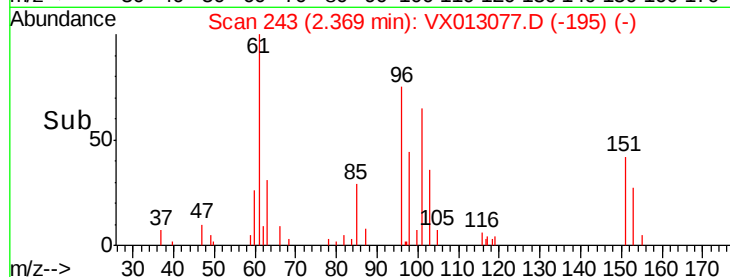
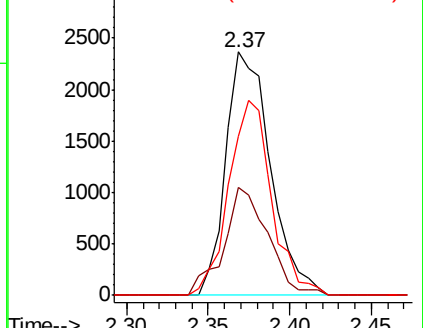
151 76.8 60.3 90.5



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 6.871 ug/l

RT: 2.50 min Scan# 264

Delta R.T. -0.01 min

Lab File: VX013077.D

Acq: 15 Oct 2019 14:54

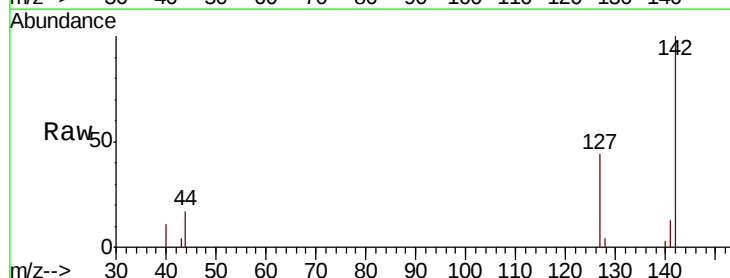
Tgt Ion:142 Resp: 3699

Ion Ratio Lower Upper

142 100

127 47.3 34.9 52.3

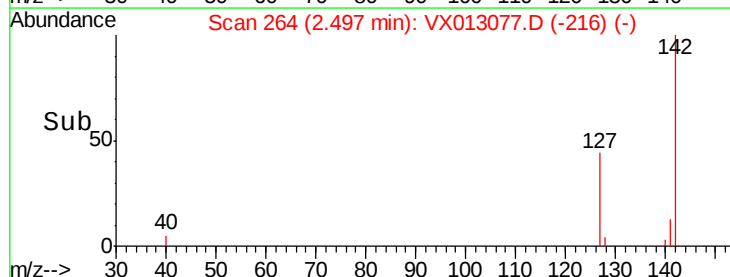
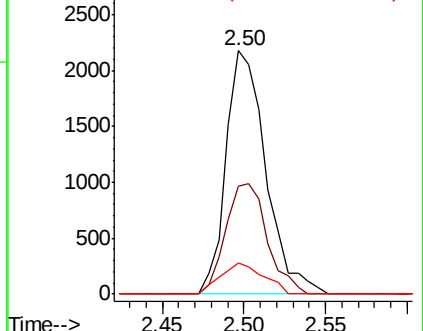
141 13.9 11.6 17.4

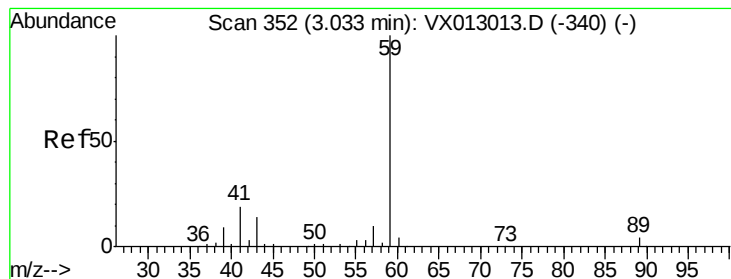


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



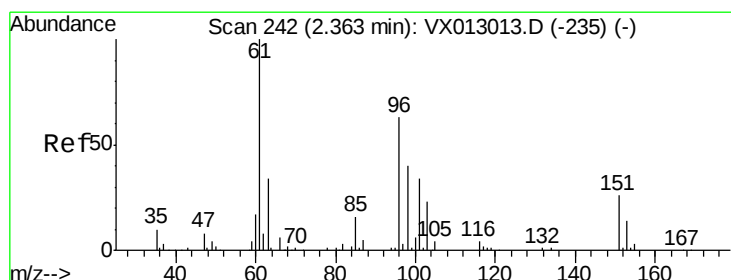
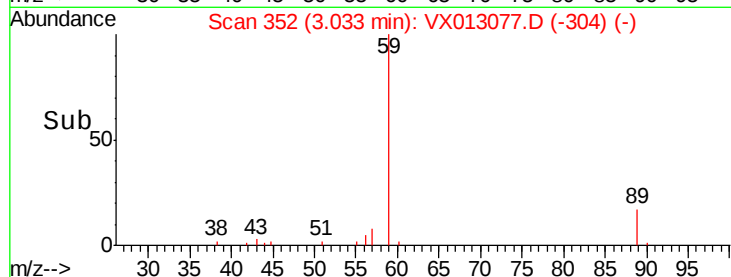
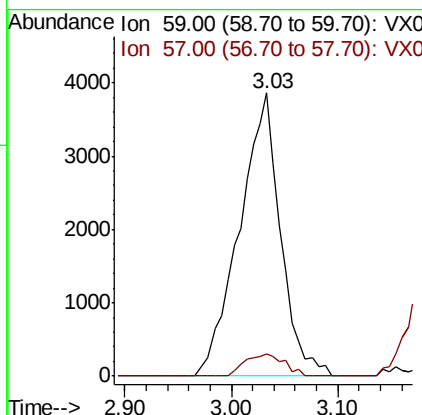
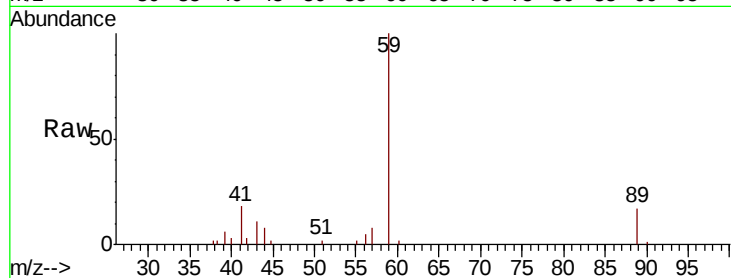


#11

Tert butyl alcohol
 Concen: 19.209 ug/l
 RT: 3.03 min Scan# 352
 Delta R.T. -0.01 min
 Lab File: VX013077.D
 Acq: 15 Oct 2019 14:54

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

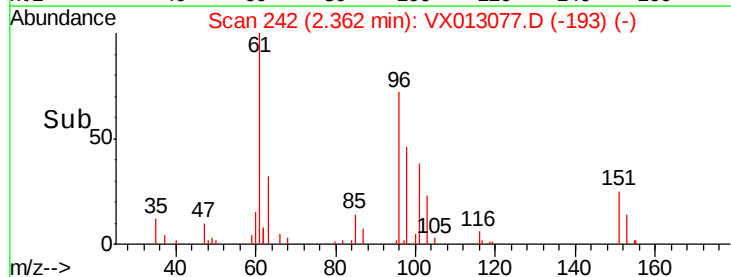
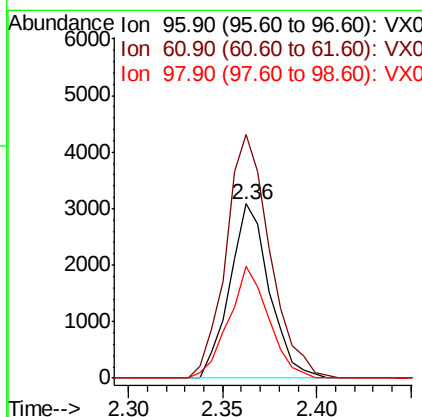
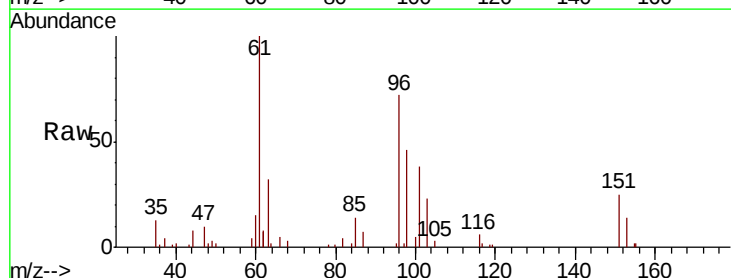
Tot Ion: 59 Resp: 10432
 Ion Ratio Lower Upper
 59 100
 57 7.5 8.3 12.5#

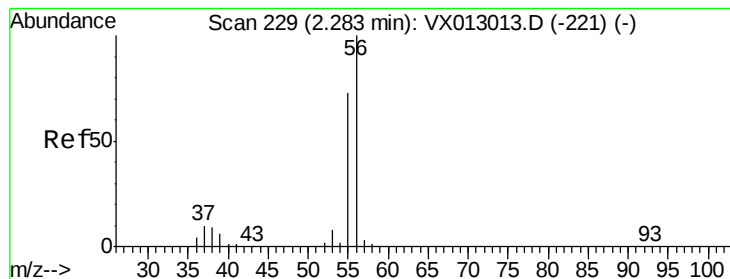


#12

1,1-Dichloroethene
 Concen: 2.722 ug/l
 RT: 2.36 min Scan# 242
 Delta R.T. -0.00 min
 Lab File: VX013077.D
 Acq: 15 Oct 2019 14:54

Tgt Ion: 96 Resp: 4508
 Ion Ratio Lower Upper
 96 100
 61 139.7 132.2 198.4
 98 64.4 50.5 75.7





#13

Acrolein

Concen: 10.271 ug/l

RT: 2.28 min Scan# 229

Delta R.T. -0.00 min

Lab File: VX013077.D

Acq: 15 Oct 2019 14:54

Instrument :

MSVOA_X

ClientSampleId :

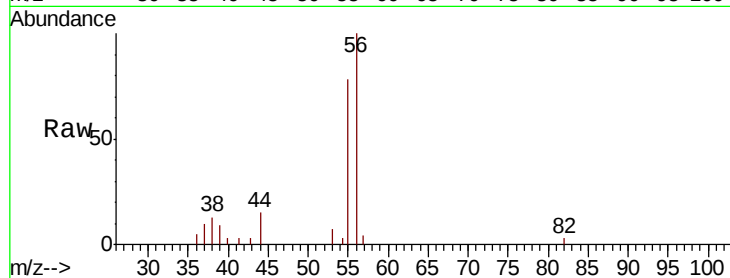
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 56 Resp: 3964

Ion Ratio Lower Upper

56 100

55 80.5 56.6 85.0



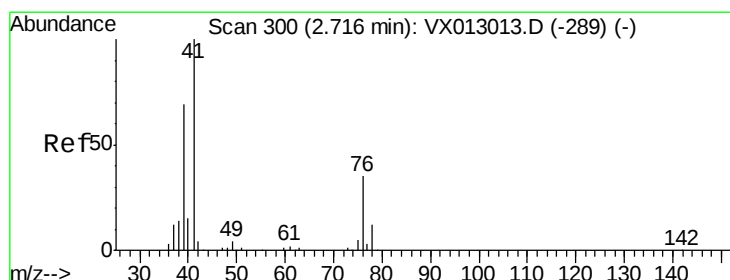
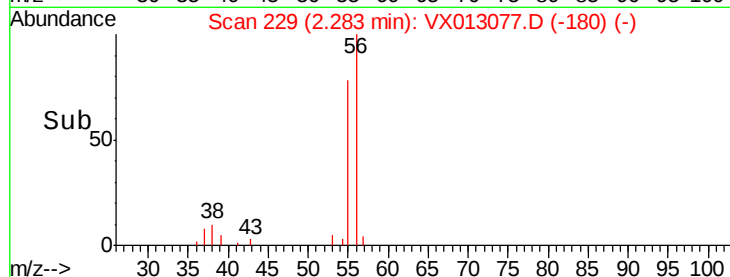
Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

2.28

2.25 2.30 2.35

Time-->



#14

Allyl chloride

Concen: 2.544 ug/l

RT: 2.72 min Scan# 300

Delta R.T. -0.00 min

Lab File: VX013077.D

Acq: 15 Oct 2019 14:54

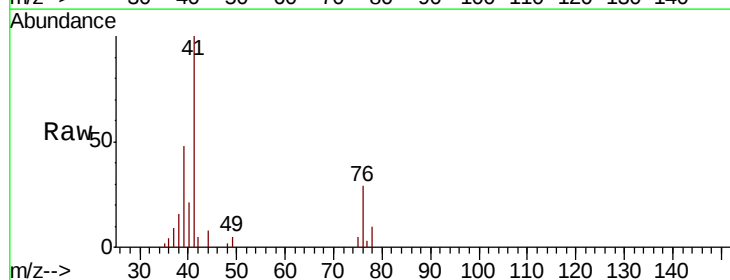
Tgt Ion: 41 Resp: 7504

Ion Ratio Lower Upper

41 100

39 64.2 51.0 76.6

76 32.1 26.2 39.4



Abundance Ion 41.00 (40.70 to 41.70): VX0

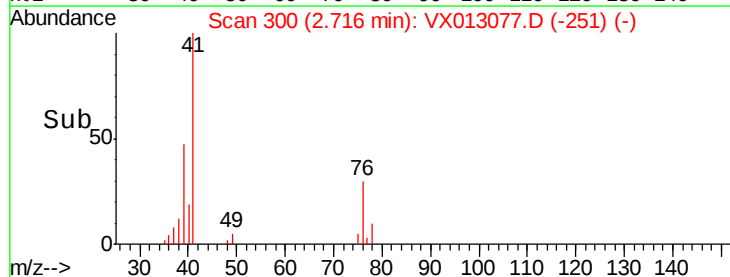
Ion 39.00 (38.70 to 39.70): VX0

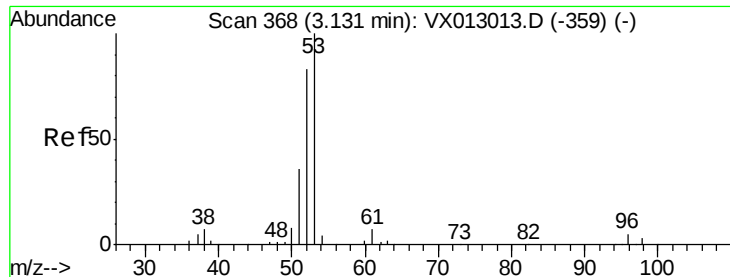
Ion 75.90 (75.60 to 76.60): VX0

2.72

2.60 2.70 2.80

Time-->





#15

Acrylonitrile

Concen: 13.039 ug/l

RT: 3.14 min Scan# 369

Delta R.T. -0.00 min

Lab File: VX013077.D

Acq: 15 Oct 2019 14:54

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

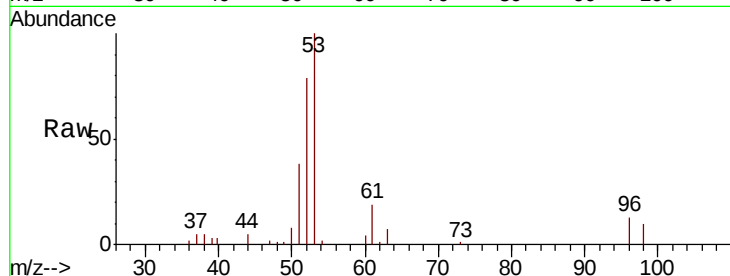
Tot Ion: 53 Resp: 13420

Ion Ratio Lower Upper

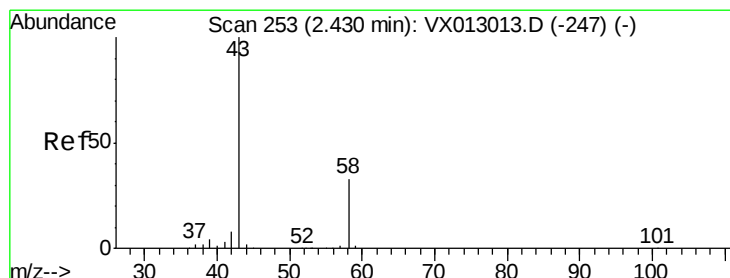
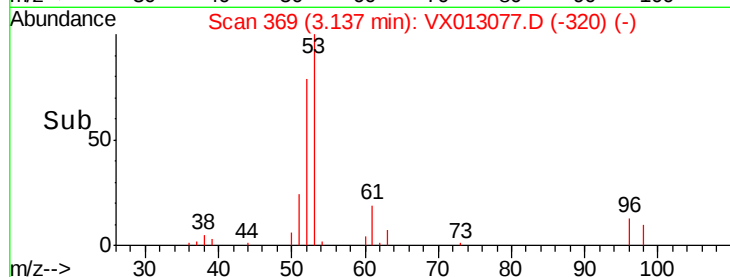
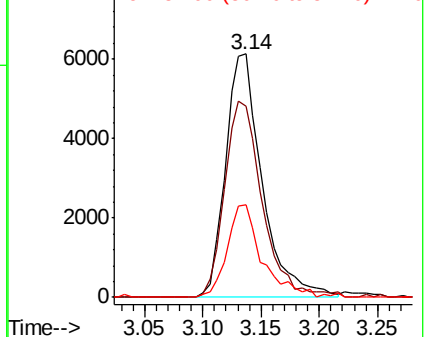
53 100

52 82.9 66.2 99.2

51 36.3 28.2 42.4



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



#16

Acetone

Concen: 12.098 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX013077.D

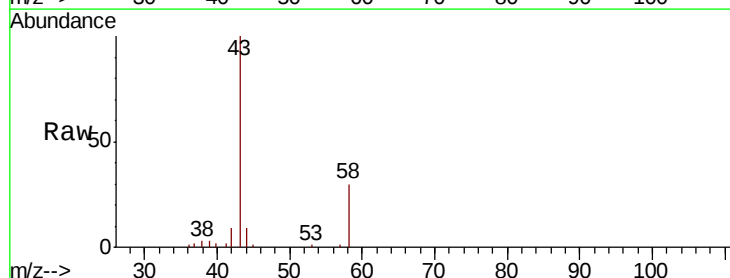
Acq: 15 Oct 2019 14:54

Tgt Ion: 43 Resp: 13064

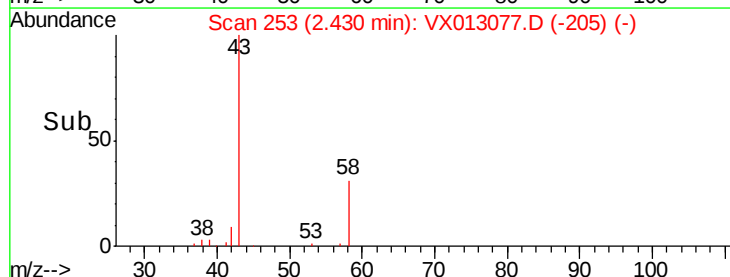
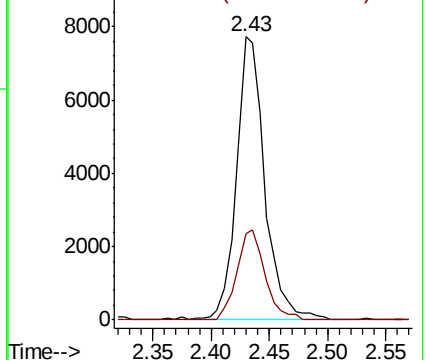
Ion Ratio Lower Upper

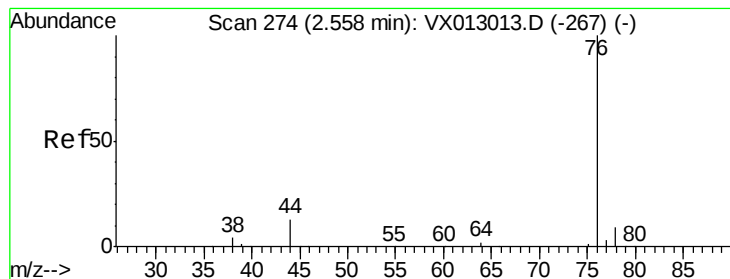
43 100

58 30.3 25.4 38.2



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 2.239 ug/l

RT: 2.56 min Scan# 274

Delta R.T. -0.01 min

Lab File: VX013077.D

Acq: 15 Oct 2019 14:54

Instrument :

MSVOA_X

ClientSampleId :

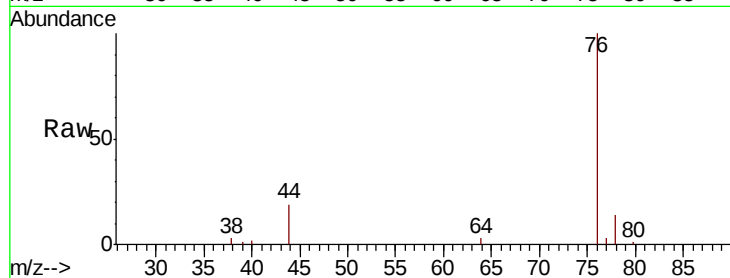
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 76 Resp: 10573

Ion Ratio Lower Upper

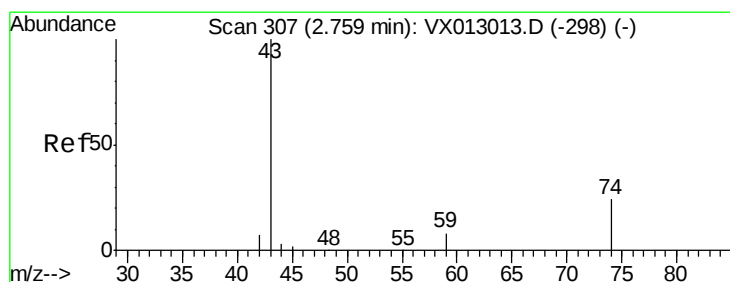
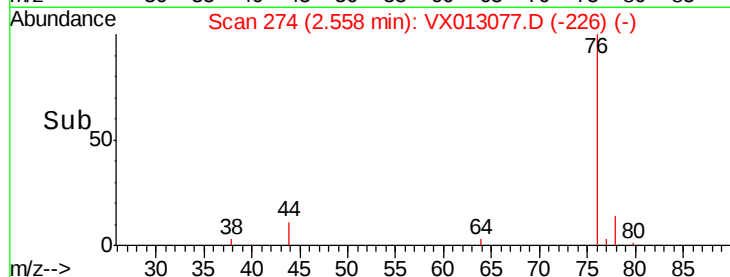
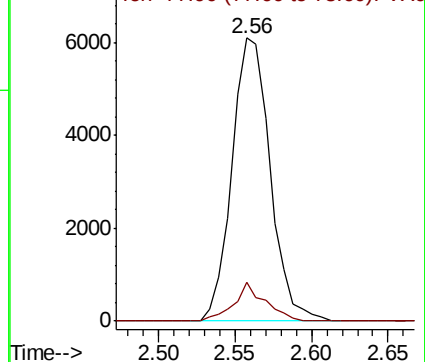
76 100

78 13.7 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 2.675 ug/l

RT: 2.76 min Scan# 308

Delta R.T. -0.00 min

Lab File: VX013077.D

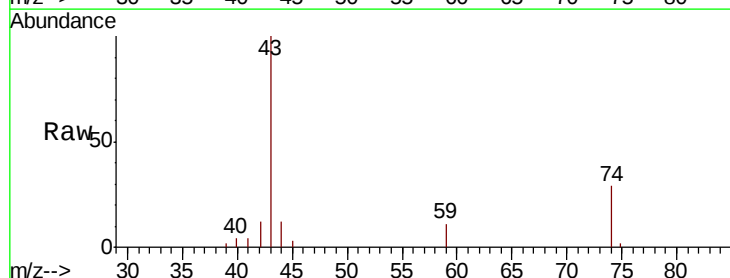
Acq: 15 Oct 2019 14:54

Tgt Ion: 43 Resp: 6848

Ion Ratio Lower Upper

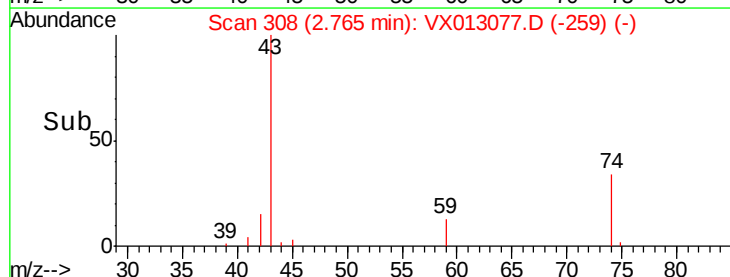
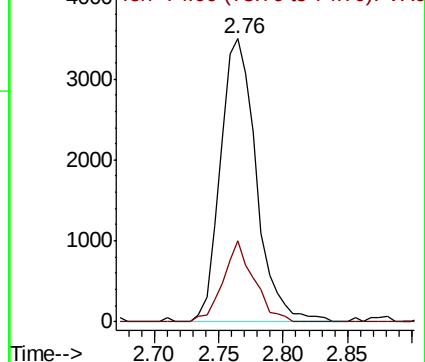
43 100

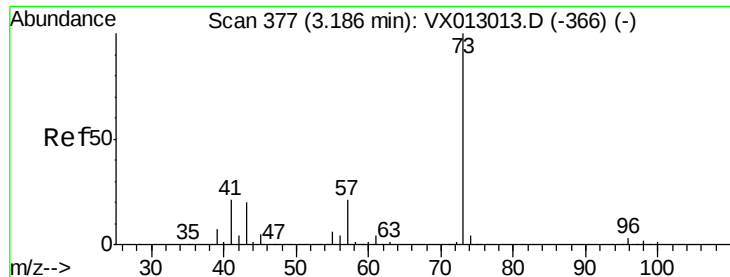
74 24.7 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

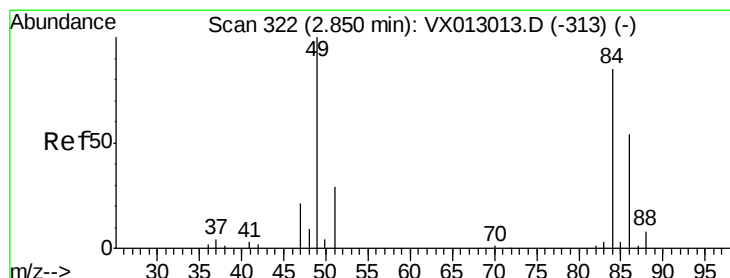
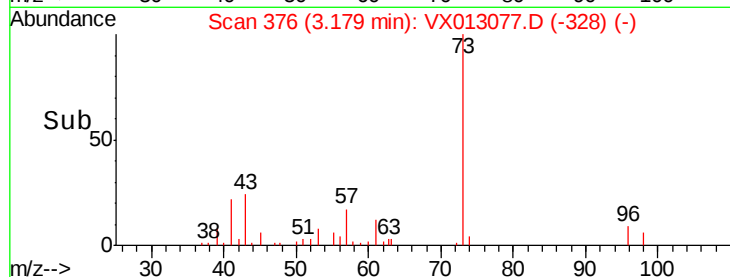
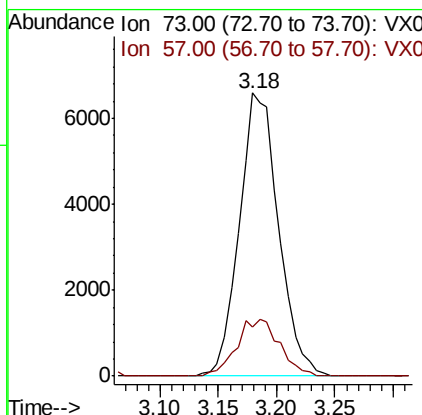
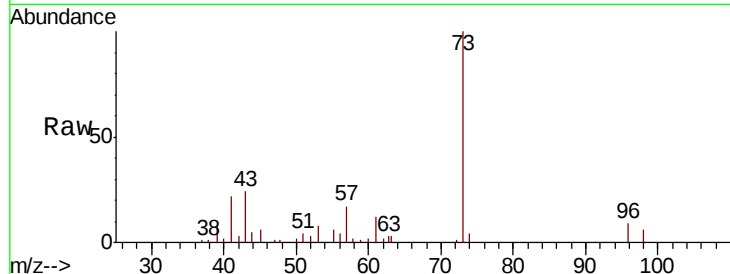




#19
Methvl tert-butvl Ether
Concen: 2.701 ug/l
RT: 3.18 min Scan# 376
Delta R.T. -0.01 min
Lab File: VX013077.D
Acq: 15 Oct 2019 14:54

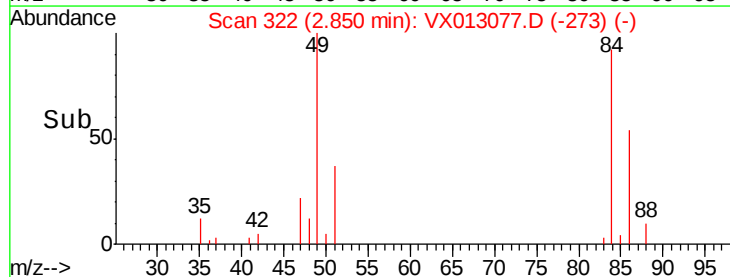
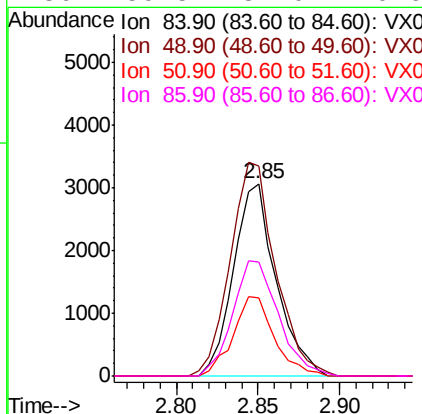
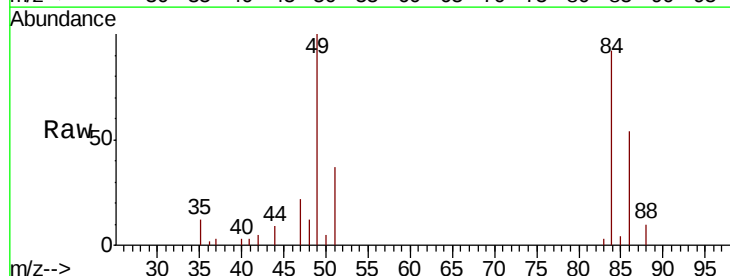
Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

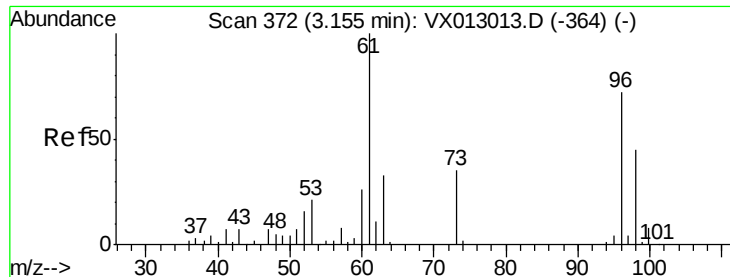
Tot Ion: 73 Resp: 15451
Ion Ratio Lower Upper
73 100
57 17.1 17.8 26.6#



#20
Methylene Chloride
Concen: 2.817 ug/l
RT: 2.85 min Scan# 322
Delta R.T. -0.00 min
Lab File: VX013077.D
Acq: 15 Oct 2019 14:54

Tgt Ion: 84 Resp: 5591
Ion Ratio Lower Upper
84 100
49 109.2 96.6 144.8
51 40.6 30.7 46.1
86 59.5 51.0 76.6





#21

trans-1,2-Dichloroethene

Concen: 2.718 ug/l

RT: 3.16 min Scan# 372

Delta R.T. -0.00 min

Lab File: VX013077.D

Acq: 15 Oct 2019 14:54

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

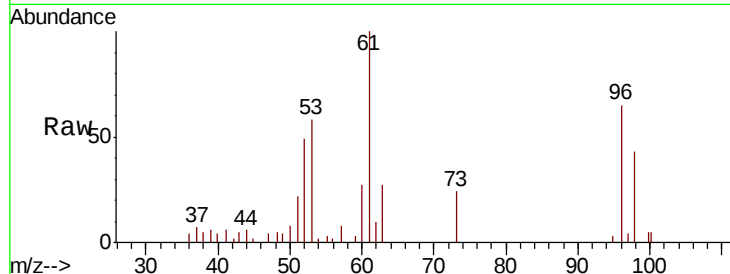
Tot Ion: 96 Resp: 4825

Ion Ratio Lower Upper

96 100

61 153.9 110.4 165.6

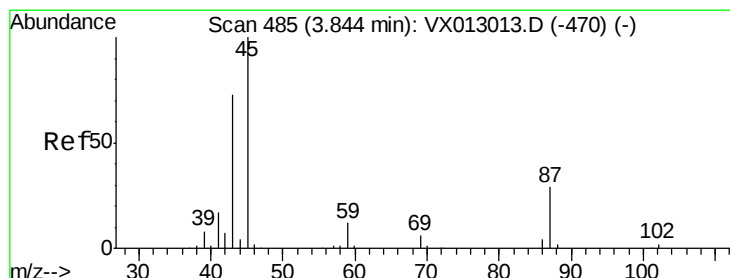
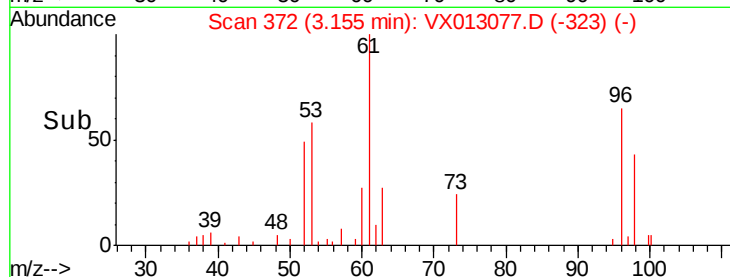
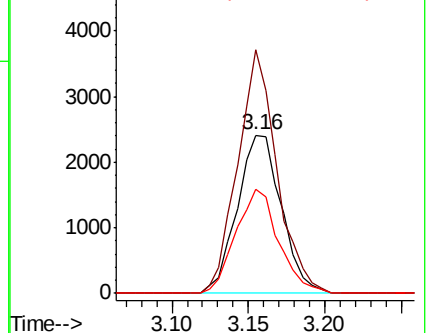
98 66.0 51.5 77.3



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#22

Diisopropyl ether

Concen: 2.625 ug/l

RT: 3.84 min Scan# 485

Delta R.T. -0.01 min

Lab File: VX013077.D

Acq: 15 Oct 2019 14:54

Tgt Ion: 45 Resp: 14838

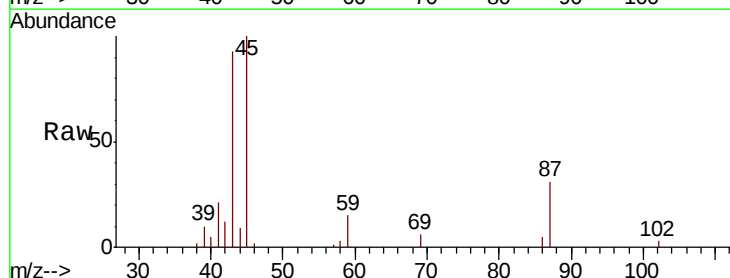
Ion Ratio Lower Upper

45 100

43 90.2 51.4 77.0#

87 31.4 22.5 33.7

59 14.9 9.7 14.5#

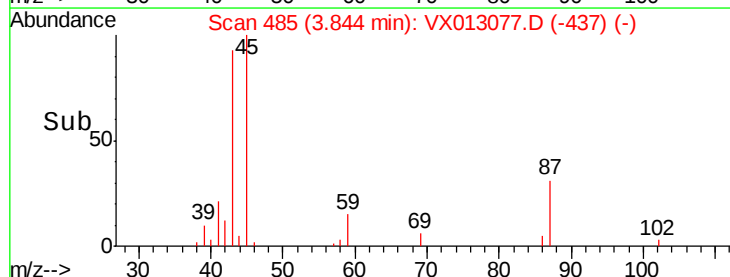
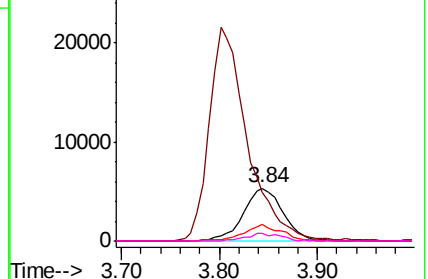


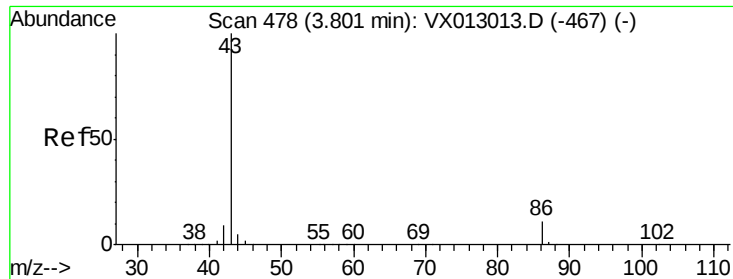
Abundance Ion 45.00 (44.70 to 45.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

Ion 59.00 (58.70 to 59.70): VX0





#23

Vinyl Acetate

Concen: 11.985 ug/l

RT: 3.80 min Scan# 478

Delta R.T. -0.01 min

Lab File: VX013077.D

Acq: 15 Oct 2019 14:54

Instrument :

MSVOA_X

ClientSampleId :

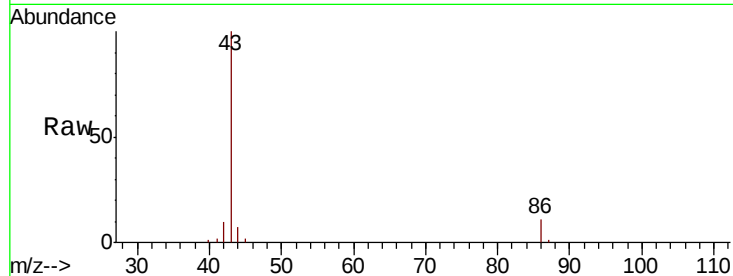
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 43 Resp: 58482

Ion Ratio Lower Upper

43 100

86 11.5 9.0 13.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0

25000

20000

15000

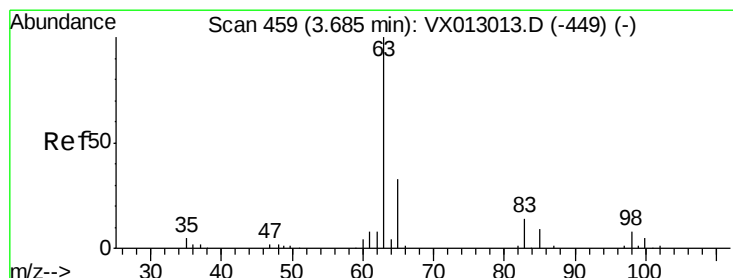
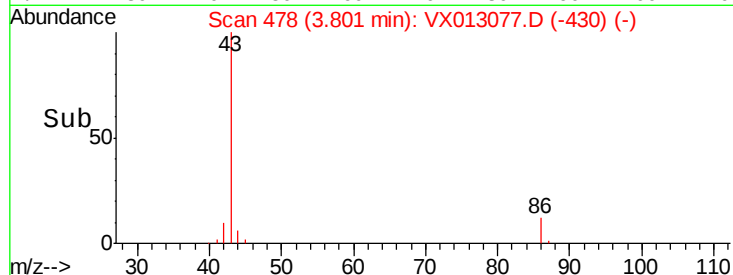
10000

5000

0

3.70 3.80 3.90

Time-->



#24

1,1-Dichloroethane

Concen: 2.816 ug/l

RT: 3.69 min Scan# 459

Delta R.T. -0.00 min

Lab File: VX013077.D

Acq: 15 Oct 2019 14:54

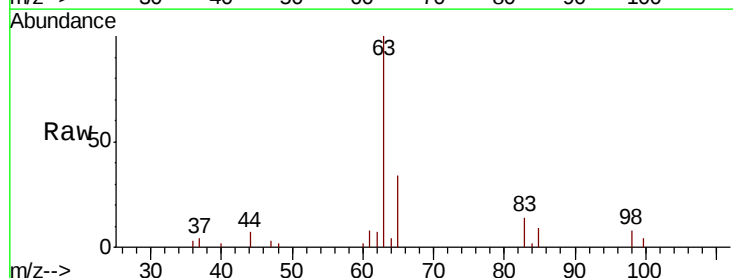
Tgt Ion: 63 Resp: 8955

Ion Ratio Lower Upper

63 100

98 8.0 3.9 11.5

100 3.7 2.3 6.9



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0

5000

4000

3000

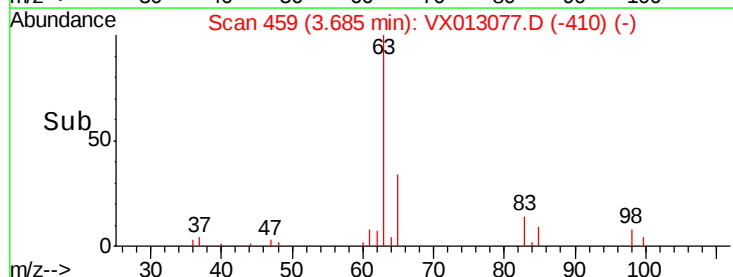
2000

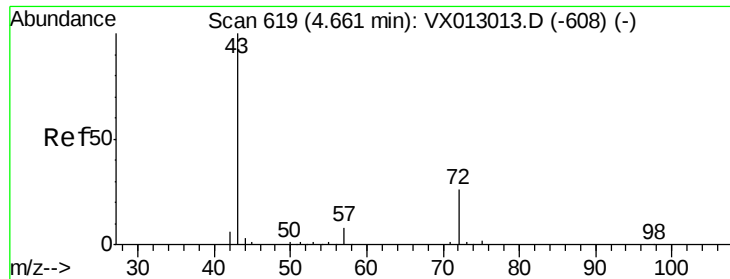
1000

0

3.60 3.70 3.80

Time-->





#25

2-Butanone

Concen: 12.596 ug/l

RT: 4.67 min Scan# 620

Delta R.T. 0.01 min

Lab File: VX013077.D

Acq: 15 Oct 2019 14:54

Instrument :

MSVOA_X

ClientSampleId :

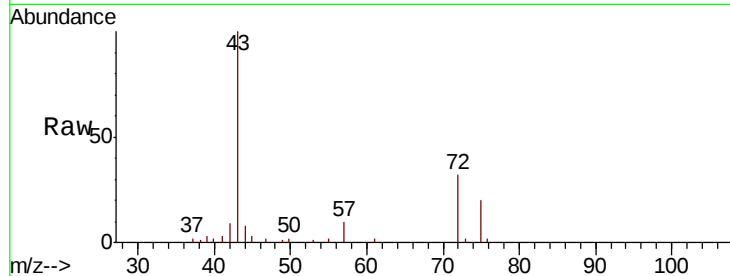
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 43 Resp: 18870

Ion Ratio Lower Upper

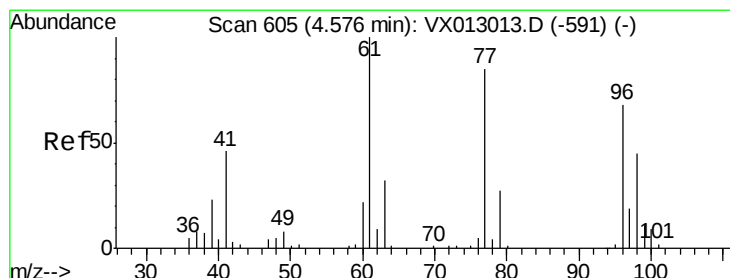
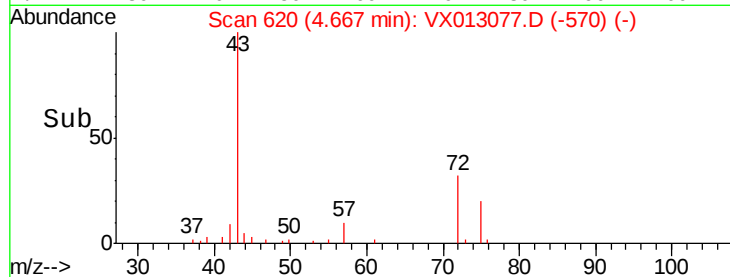
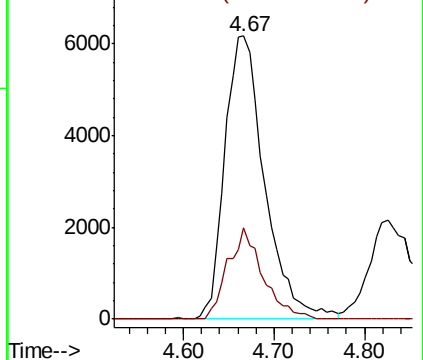
43 100

72 32.2 21.0 31.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#26

2,2-Dichloropropane

Concen: 2.523 ug/l

RT: 4.58 min Scan# 605

Delta R.T. -0.00 min

Lab File: VX013077.D

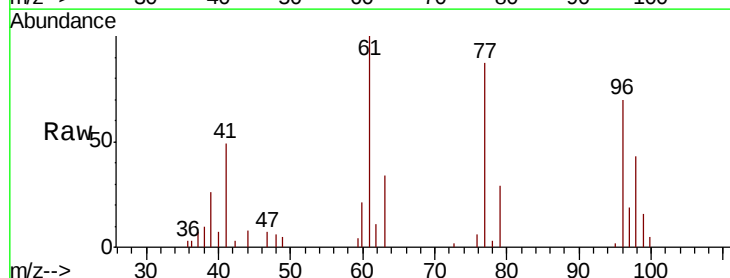
Acq: 15 Oct 2019 14:54

Tgt Ion: 77 Resp: 6747

Ion Ratio Lower Upper

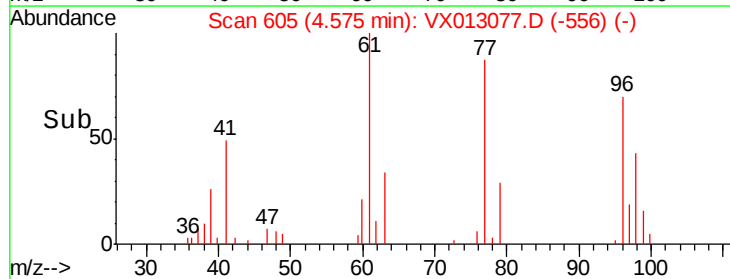
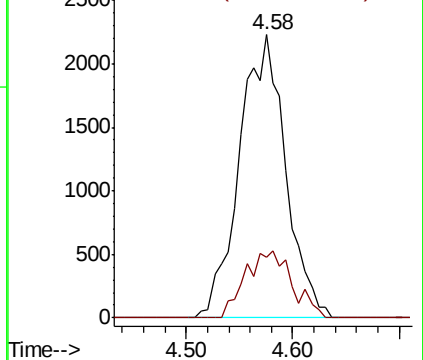
77 100

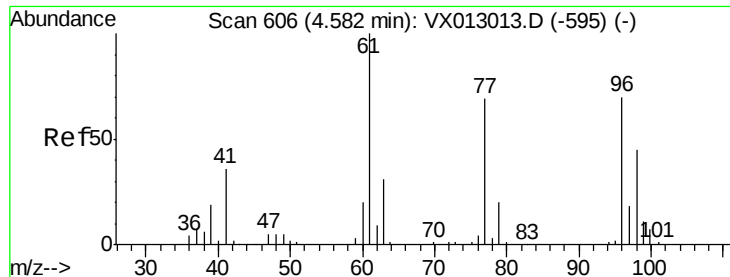
97 23.9 11.3 33.9



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0



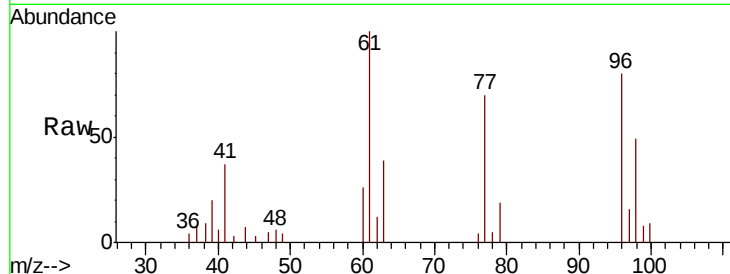


#27

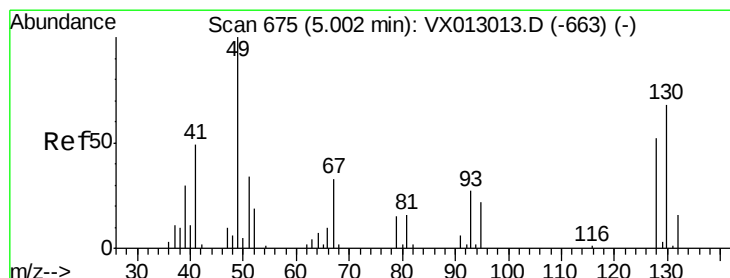
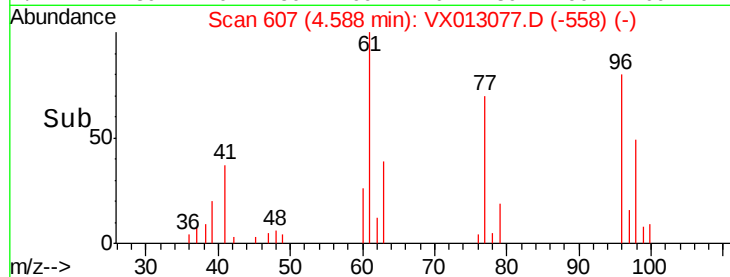
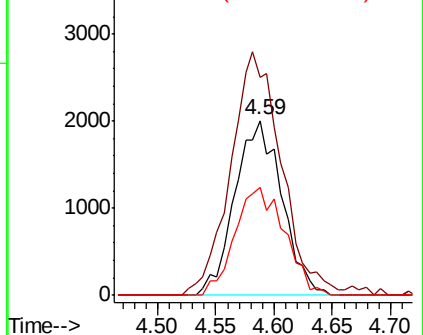
cis-1,2-Dichloroethene
Concen: 2.753 ug/l
RT: 4.59 min Scan# 607
Delta R.T. -0.00 min
Lab File: VX013077.D
Acq: 15 Oct 2019 14:54

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 96 Resp: 5634
Ion Ratio Lower Upper
96 100
61 150.2 0.0 290.6
98 65.3 0.0 128.8



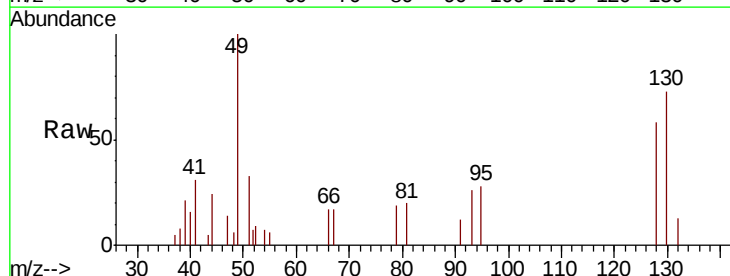
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



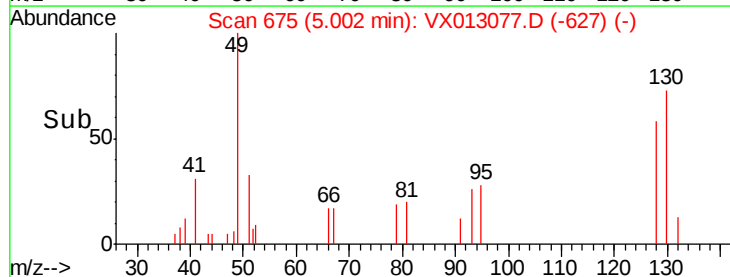
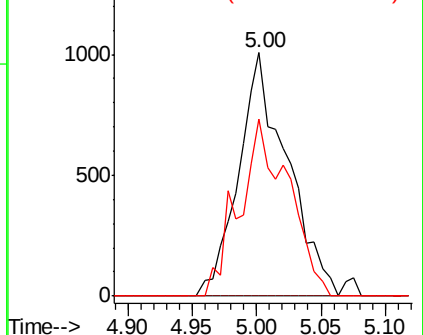
#28

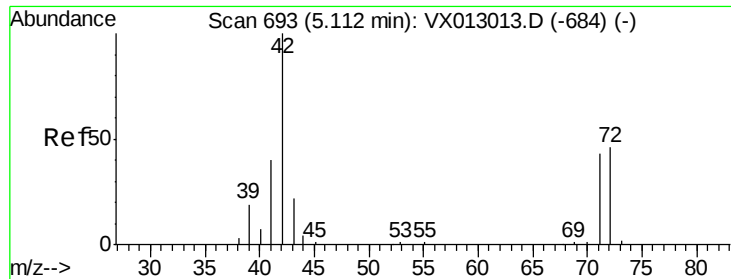
Bromochloromethane
Concen: 2.344 ug/l
RT: 5.00 min Scan# 675
Delta R.T. -0.01 min
Lab File: VX013077.D
Acq: 15 Oct 2019 14:54

Tgt Ion: 49 Resp: 2633
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.2
130 74.3 62.1 93.1



Abundance Ion 48.90 (48.60 to 49.60): VX0
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V

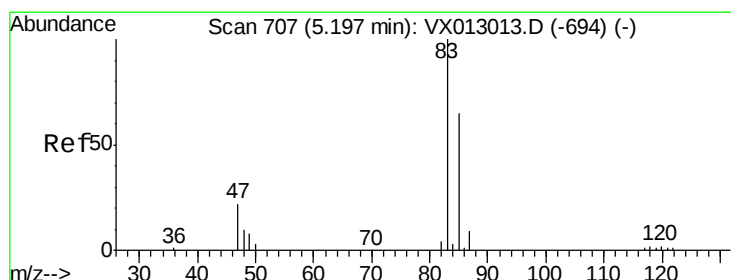
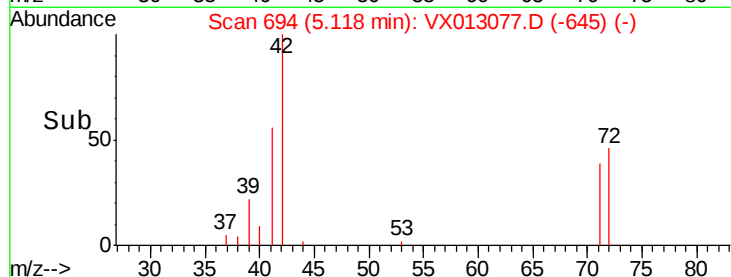
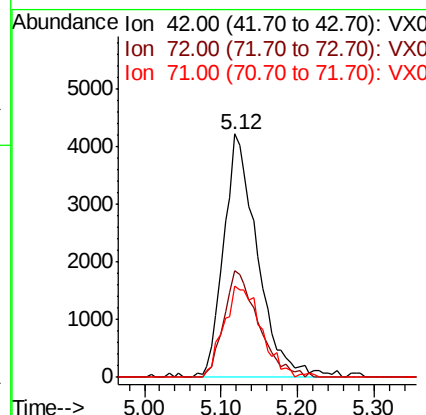
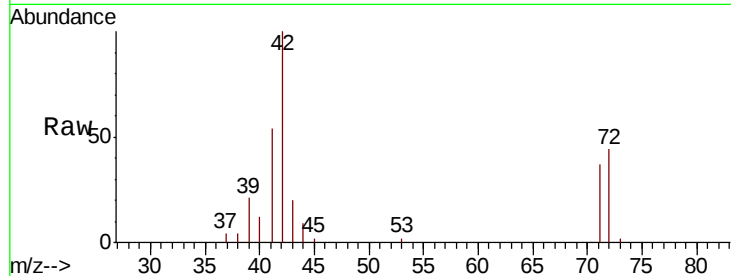




#29
Tetrahydrofuran
Concen: 14.027 ug/l
RT: 5.12 min Scan# 694
Delta R.T. -0.00 min
Lab File: VX013077.D
Acq: 15 Oct 2019 14:54

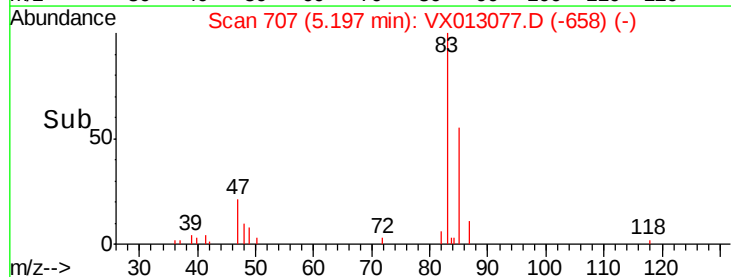
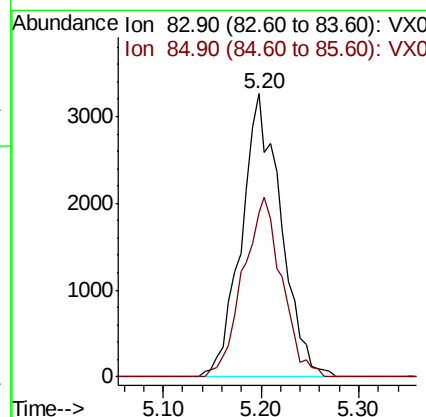
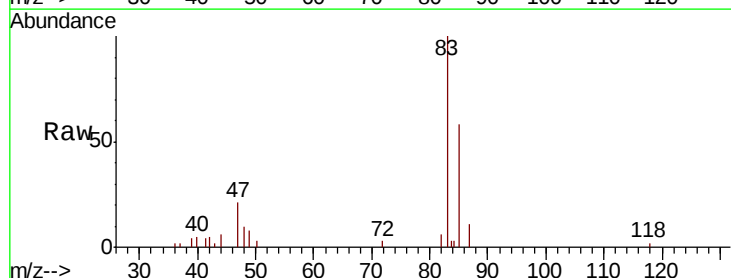
Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

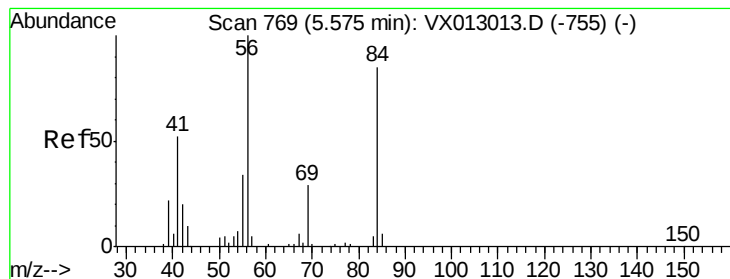
Tot Ion: 42 Resp: 12932
Ion Ratio Lower Upper
42 100
72 44.6 36.9 55.3
71 40.8 33.5 50.3



#30
Chloroform
Concen: 2.806 ug/l
RT: 5.20 min Scan# 707
Delta R.T. -0.00 min
Lab File: VX013077.D
Acq: 15 Oct 2019 14:54

Tgt Ion: 83 Resp: 9157
Ion Ratio Lower Upper
83 100
85 58.2 51.5 77.3





#31

Cyclohexane

Concen: 2.571 ug/l

RT: 5.58 min Scan# 769

Delta R.T. 0.01 min

Lab File: VX013077.D

Acq: 15 Oct 2019 14:54

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

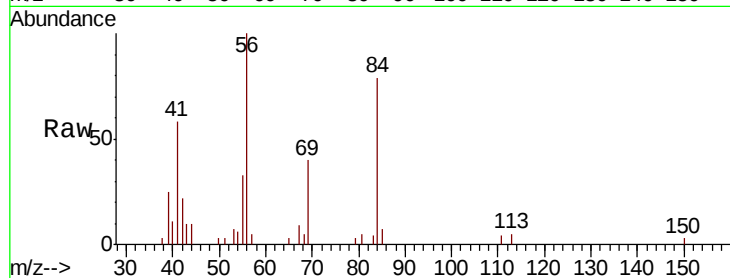
Tot Ion: 56 Resp: 7644

Ion Ratio Lower Upper

56 100

69 40.0 25.2 37.8#

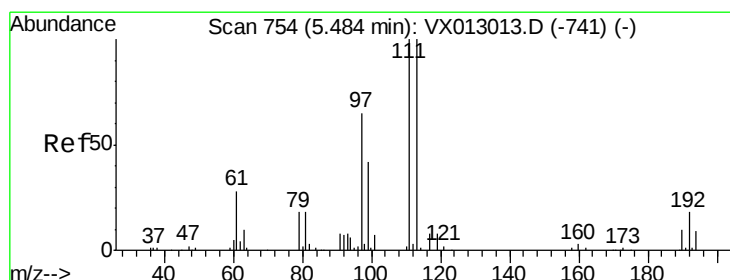
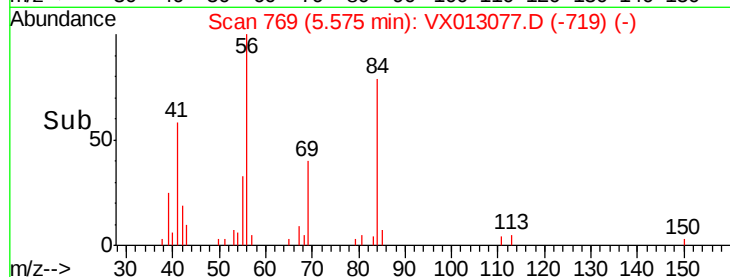
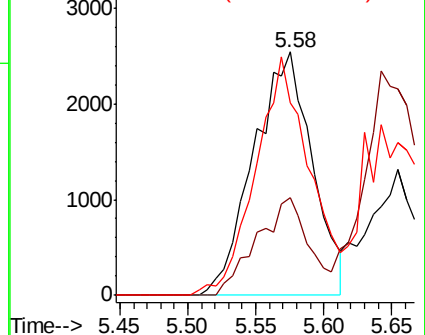
84 79.2 71.3 106.9



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#32

1,1,1-Trichloroethane

Concen: 2.763 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.01 min

Lab File: VX013077.D

Acq: 15 Oct 2019 14:54

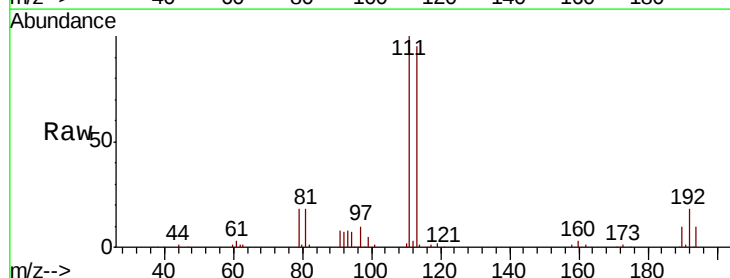
Tgt Ion: 97 Resp: 7638

Ion Ratio Lower Upper

97 100

99 61.8 52.3 78.5

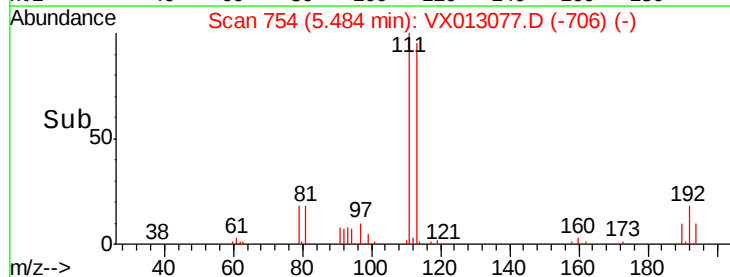
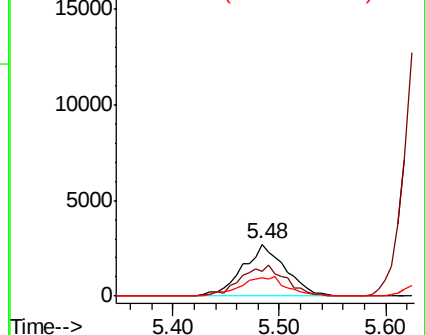
61 39.6 35.0 52.4

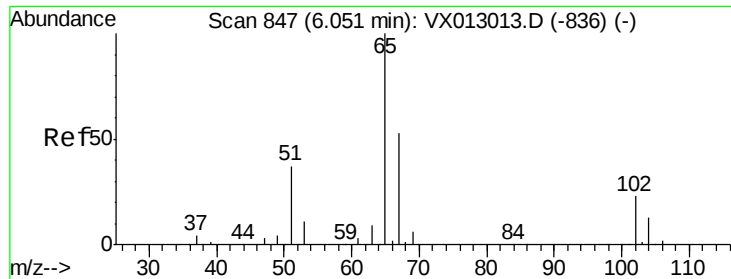


Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

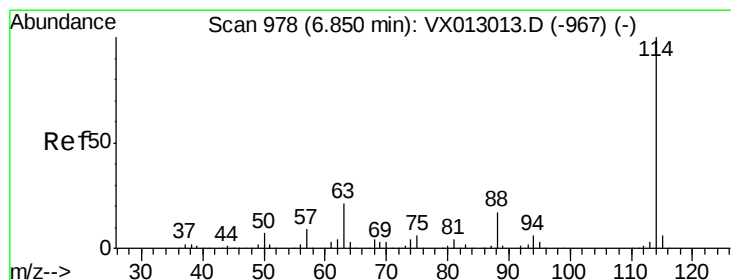
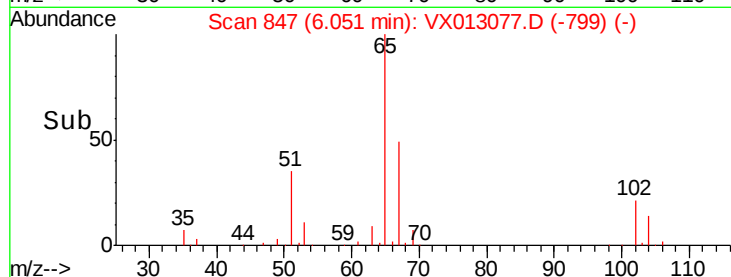
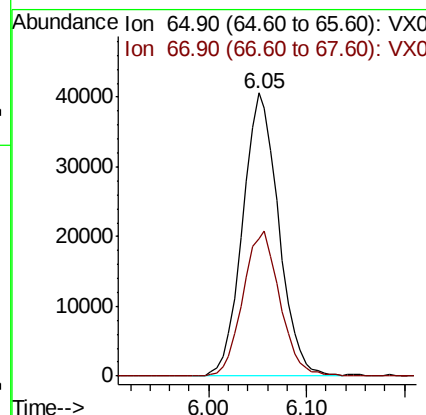
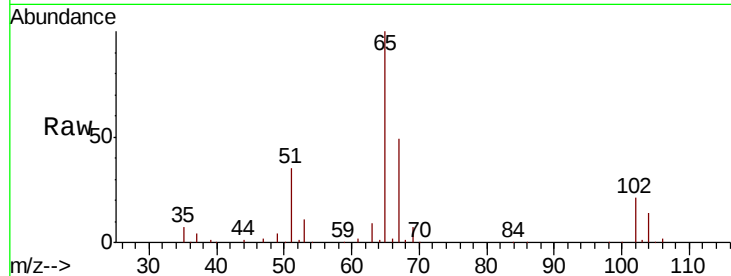




#33
 1,2-Dichloroethane-d4
 Concen: 50.570 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. -0.01 min
 Lab File: VX013077.D
 Acq: 15 Oct 2019 14:54

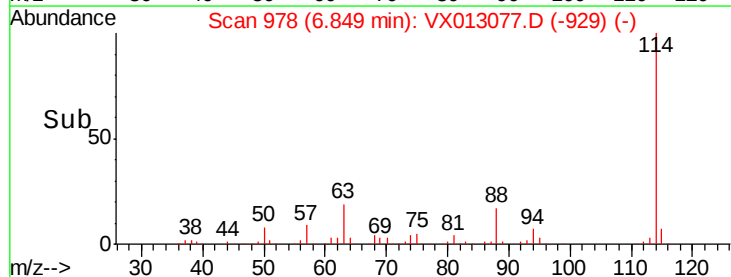
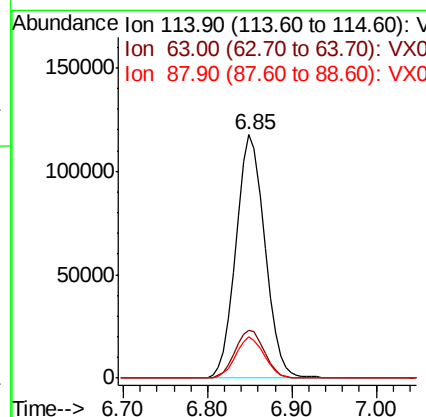
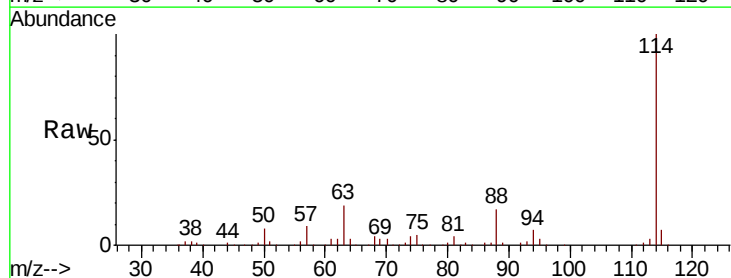
Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

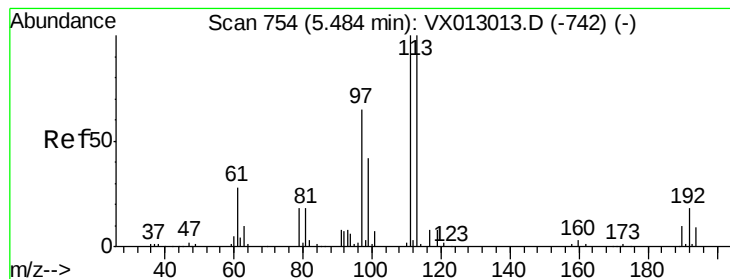
Tot Ion: 65 Resp: 103602
 Ion Ratio Lower Upper
 65 100
 67 52.4 0.0 104.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX013077.D
 Acq: 15 Oct 2019 14:54

Tgt Ion: 114 Resp: 273419
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 40.8
 88 16.8 0.0 33.8





#35

Dibromofluoromethane

Concen: 51.311 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX013077.D

Acq: 15 Oct 2019 14:54

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

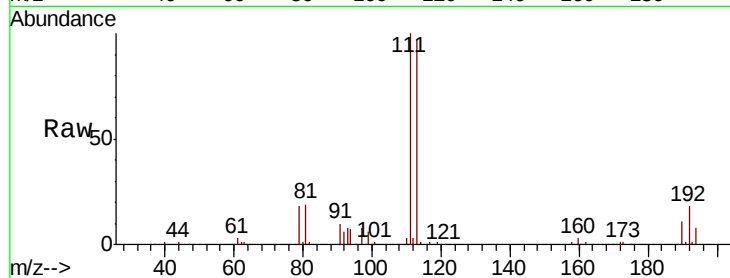
Tot Ion:113 Resp: 80522

Ion Ratio Lower Upper

113 100

111 102.7 83.2 124.8

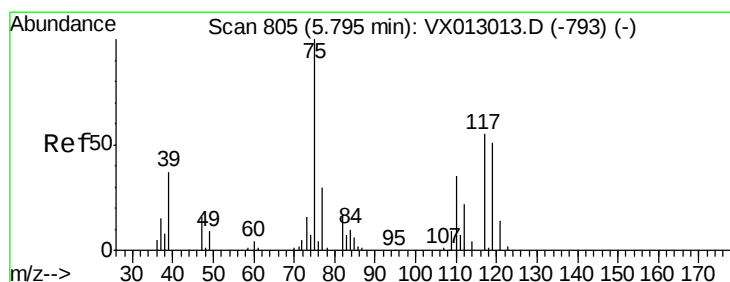
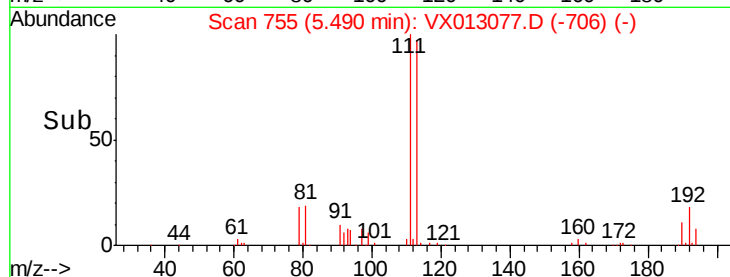
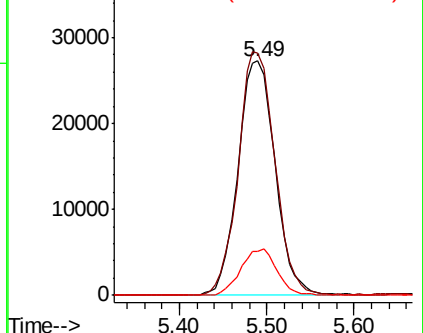
192 19.4 15.4 23.2



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 2.625 ug/l

RT: 5.79 min Scan# 805

Delta R.T. 0.01 min

Lab File: VX013077.D

Acq: 15 Oct 2019 14:54

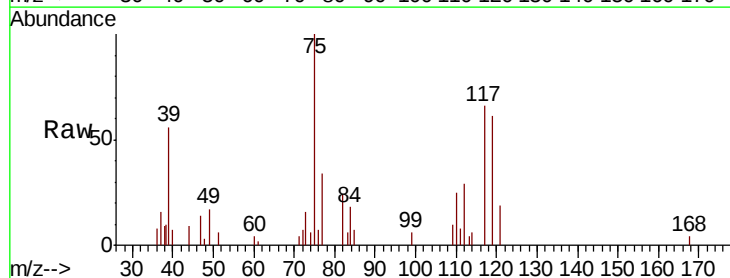
Tgt Ion: 75 Resp: 6310

Ion Ratio Lower Upper

75 100

110 35.5 17.6 52.9

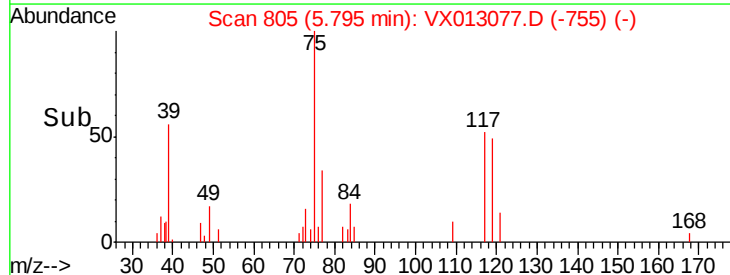
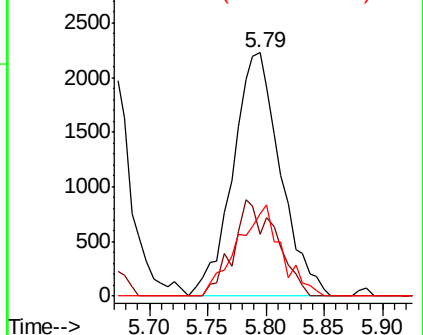
77 34.9 24.4 36.6

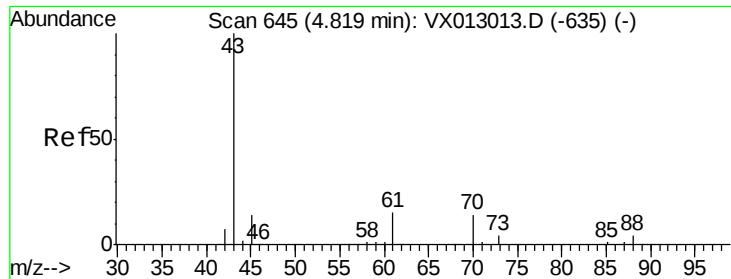


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

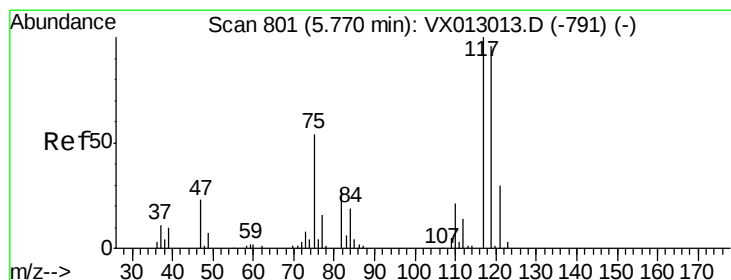
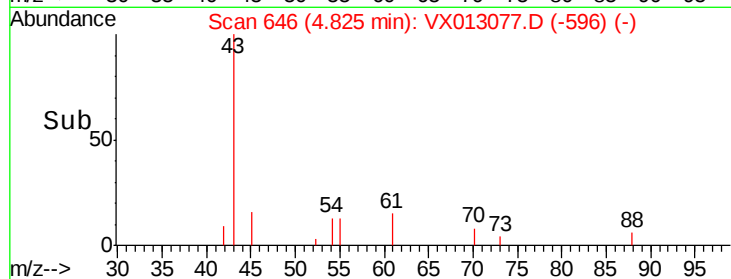
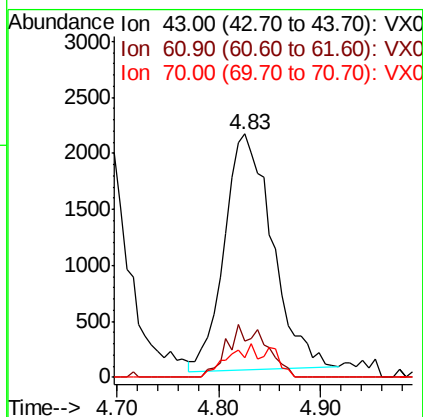
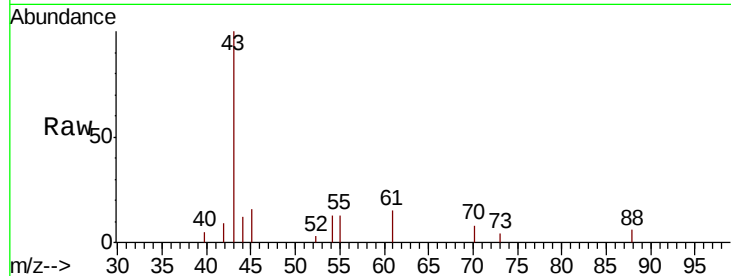




#37
Ethyl Acetate
Concen: 2.570 ug/l
RT: 4.83 min Scan# 646
Delta R.T. 0.01 min
Lab File: VX013077.D
Acq: 15 Oct 2019 14:54

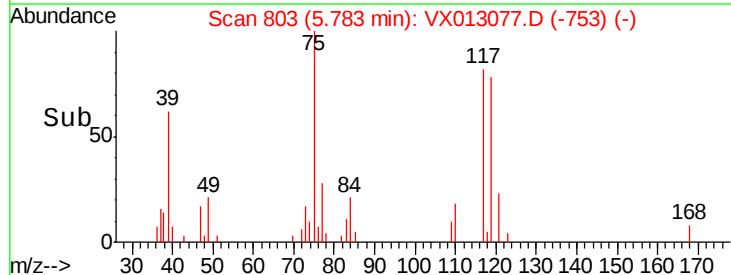
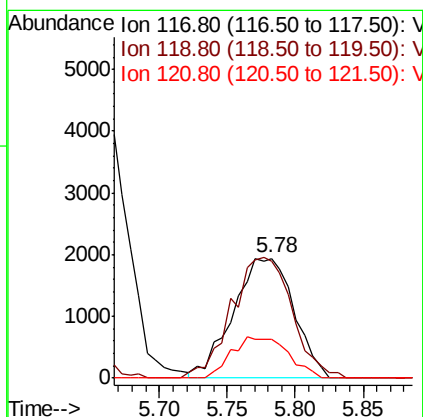
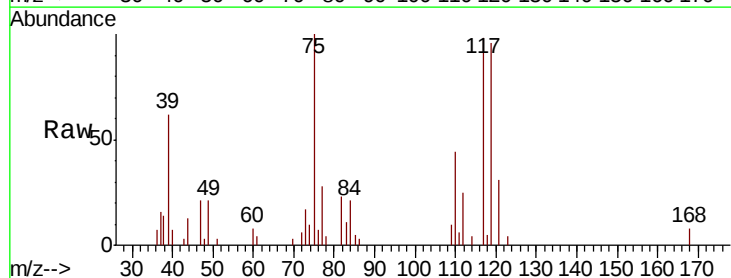
Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

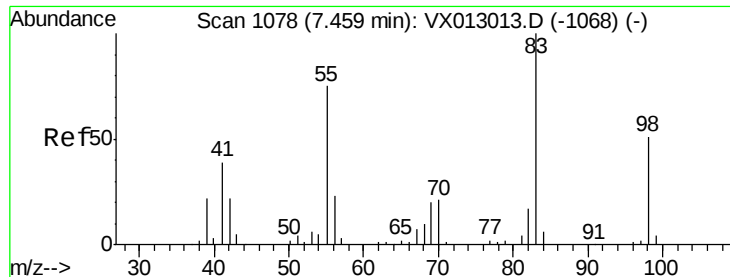
Tot Ion: 43 Resp: 6907
Ion Ratio Lower Upper
43 100
61 17.9 11.4 17.0#
70 5.6 9.8 14.6#



#38
Carbon Tetrachloride
Concen: 2.590 ug/l
RT: 5.78 min Scan# 803
Delta R.T. 0.01 min
Lab File: VX013077.D
Acq: 15 Oct 2019 14:54

Tgt Ion: 117 Resp: 6061
Ion Ratio Lower Upper
117 100
119 93.3 74.5 111.7
121 31.9 24.2 36.4

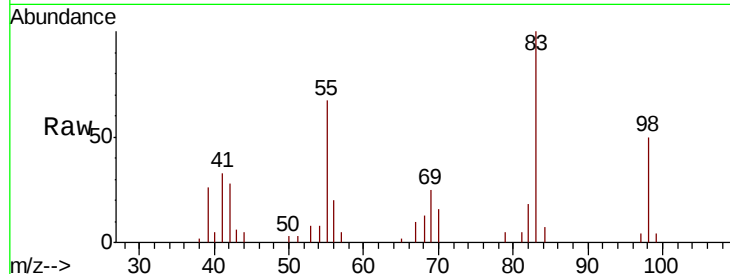




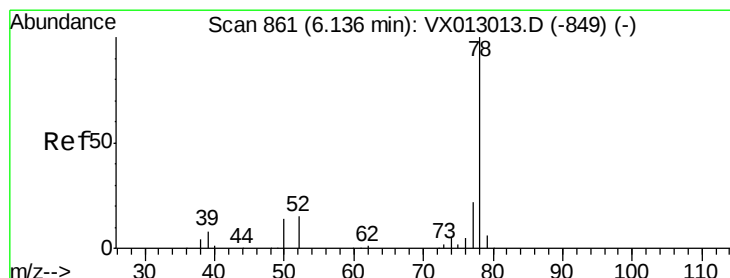
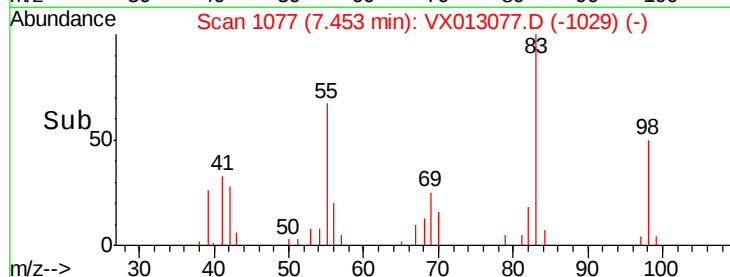
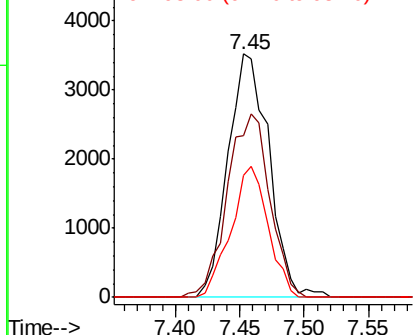
#39
Methvlcvclohexane
Concen: 2.681 ug/l
RT: 7.45 min Scan# 1077
Delta R.T. -0.01 min
Lab File: VX013077.D
Acq: 15 Oct 2019 14:54

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 83 Resp: 7816
Ion Ratio Lower Upper
83 100
55 66.7 60.2 90.4
98 50.2 38.5 57.7

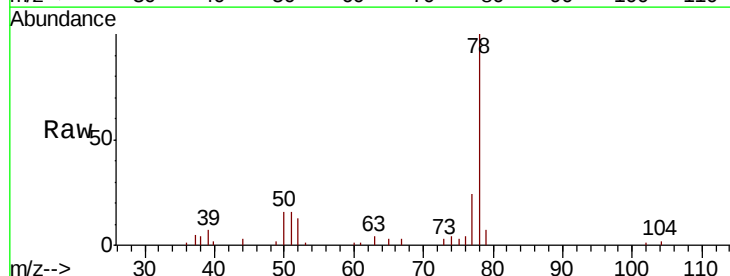


Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 98.00 (97.70 to 98.70): VX0

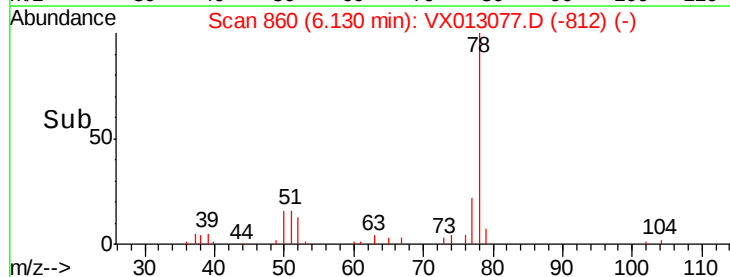
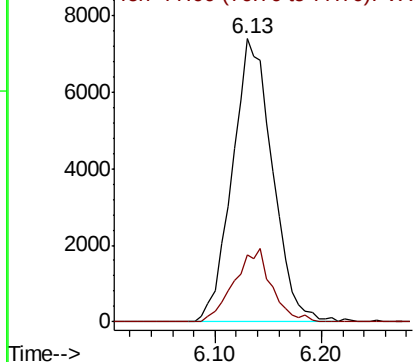


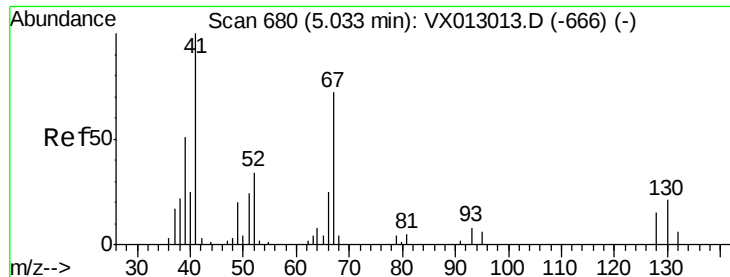
#40
Benzene
Concen: 2.753 ug/l
RT: 6.13 min Scan# 860
Delta R.T. -0.01 min
Lab File: VX013077.D
Acq: 15 Oct 2019 14:54

Tgt Ion: 78 Resp: 19547
Ion Ratio Lower Upper
78 100
77 23.7 19.0 28.4



Abundance Ion 78.00 (77.70 to 78.70): VX0
Ion 77.00 (76.70 to 77.70): VX0





#41

Methacrylonitrile

Concen: 2.597 ug/l

RT: 5.03 min Scan# 680

Delta R.T. -0.00 min

Lab File: VX013077.D

Acq: 15 Oct 2019 14:54

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 41 Resp: 3836

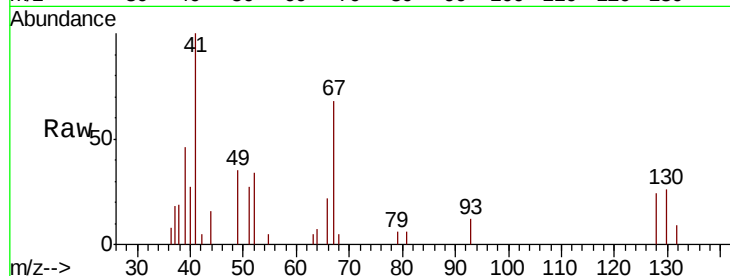
Ion Ratio Lower Upper

41 100

39 58.4 44.0 66.0

67 72.1 58.5 87.7

52 30.0 23.8 35.8

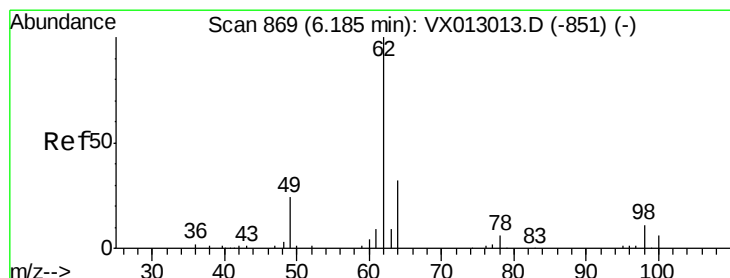
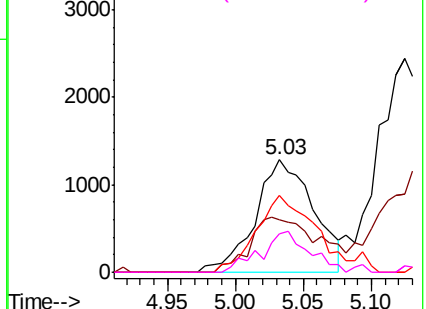
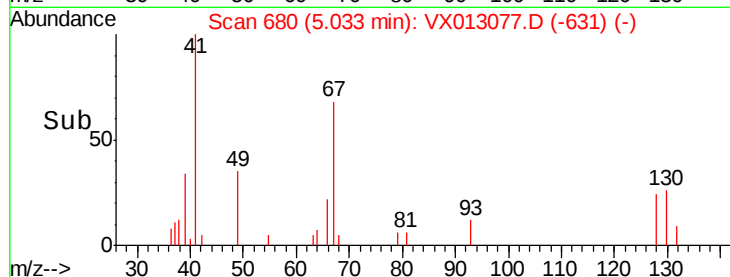


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



#42

1,2-Dichloroethane

Concen: 2.804 ug/l

RT: 6.18 min Scan# 868

Delta R.T. -0.01 min

Lab File: VX013077.D

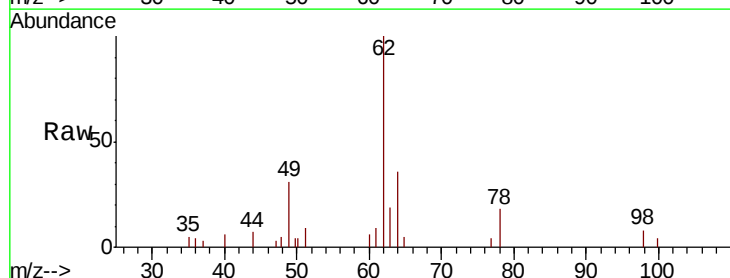
Acq: 15 Oct 2019 14:54

Tgt Ion: 62 Resp: 7144

Ion Ratio Lower Upper

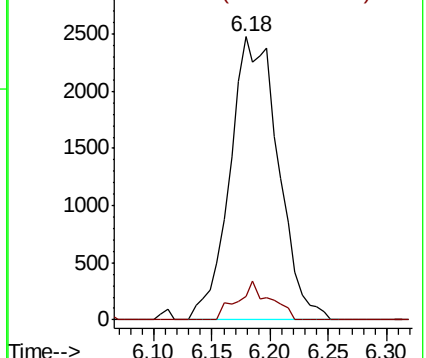
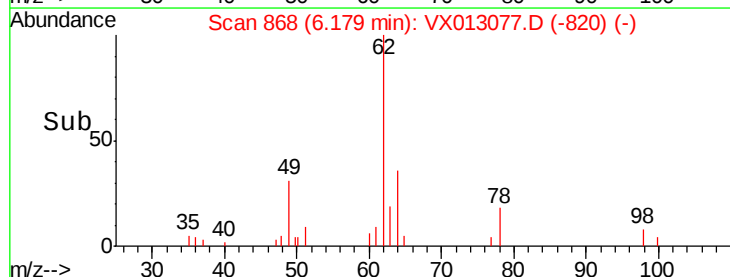
62 100

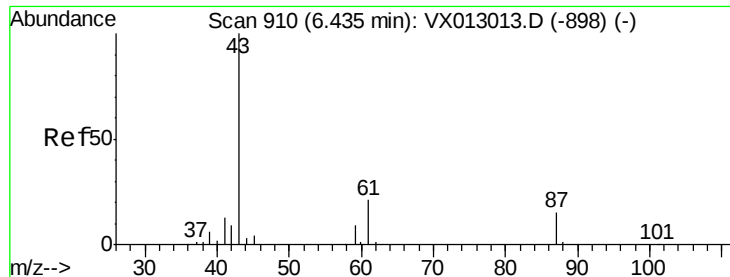
98 9.2 0.0 20.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#43

Isopropyl Acetate

Concen: 2.448 ug/l

RT: 6.43 min Scan# 910

Delta R.T. -0.00 min

Lab File: VX013077.D

Acq: 15 Oct 2019 14:54

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

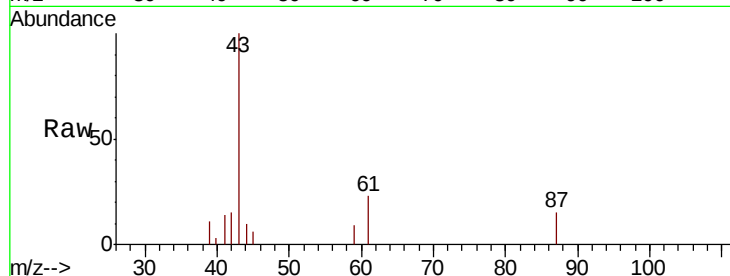
Tot Ion: 43 Resp: 10561

Ion Ratio Lower Upper

43 100

61 25.0 16.6 24.8#

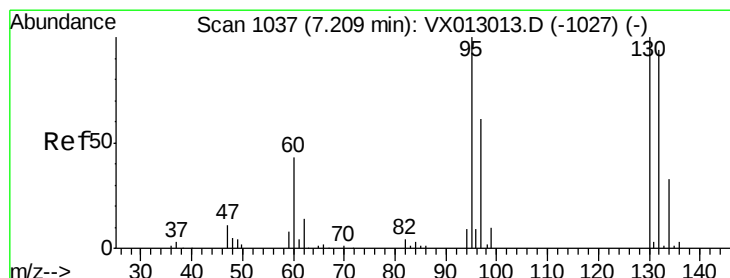
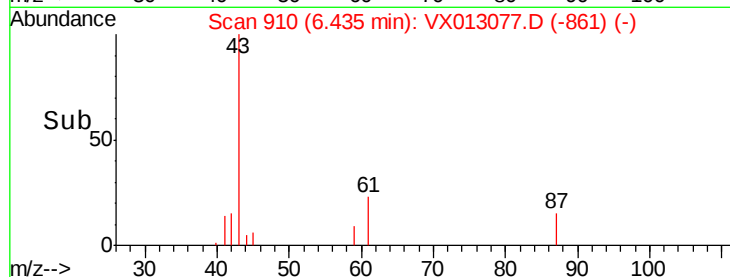
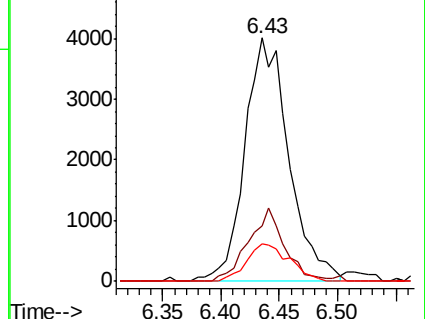
87 14.8 11.0 16.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#44

Trichloroethene

Concen: 2.670 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. -0.00 min

Lab File: VX013077.D

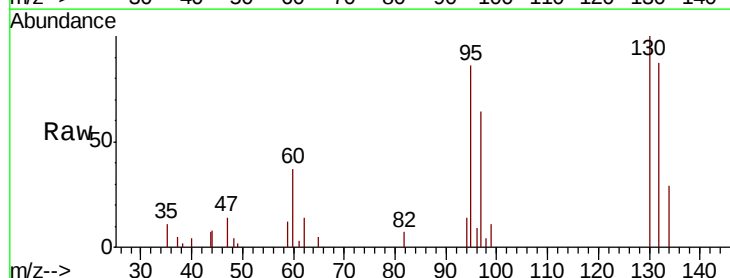
Acq: 15 Oct 2019 14:54

Tgt Ion: 130 Resp: 5257

Ion Ratio Lower Upper

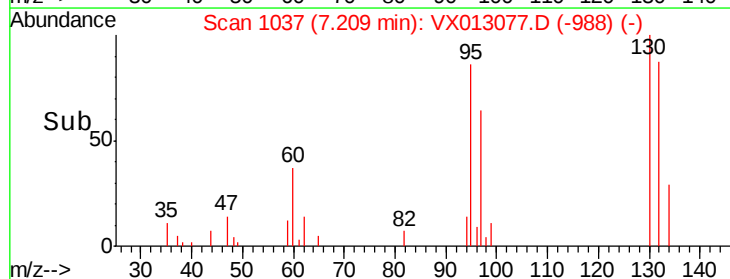
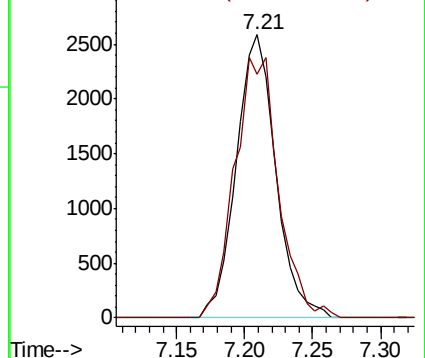
130 100

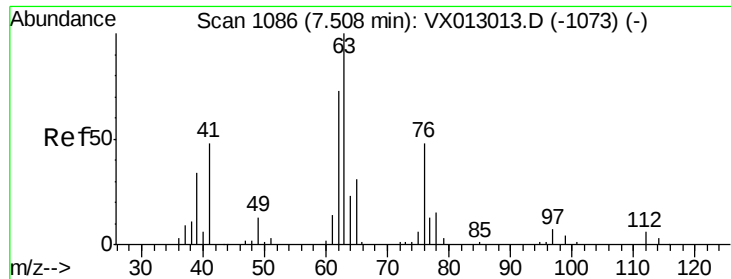
95 86.0 0.0 189.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#45

1,2-Dichloropropane

Concen: 2.697 ug/l

RT: 7.51 min Scan# 1087

Delta R.T. 0.01 min

Lab File: VX013077.D

Acq: 15 Oct 2019 14:54

Instrument :

MSVOA_X

ClientSampleId :

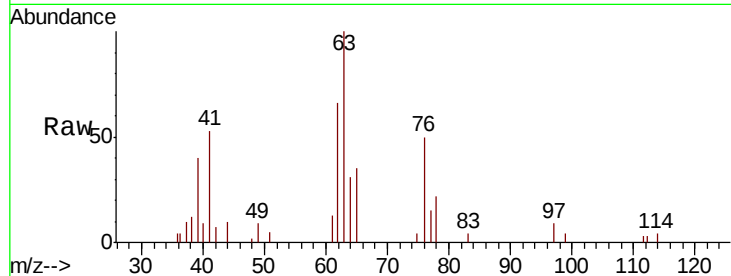
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 63 Resp: 4881

Ion Ratio Lower Upper

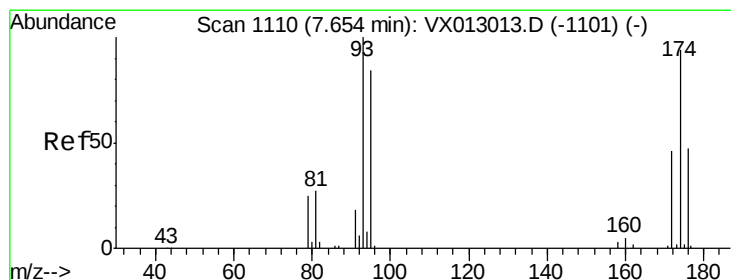
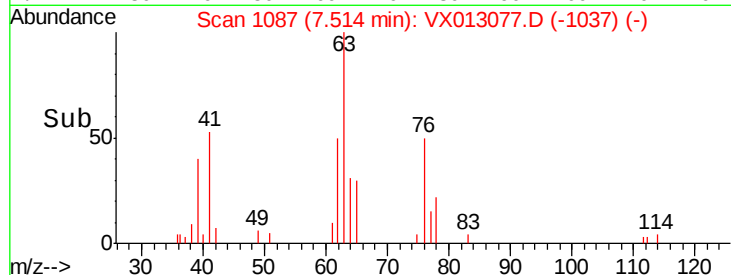
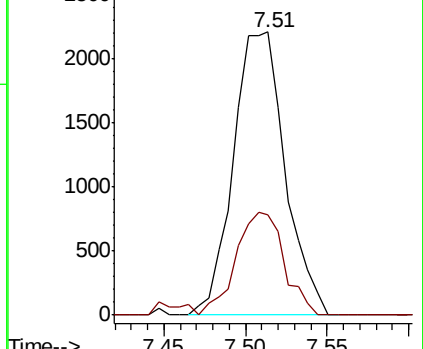
63 100

65 35.4 24.6 37.0



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 64.90 (64.60 to 65.60): VX0



#46

Dibromomethane

Concen: 2.759 ug/l

RT: 7.65 min Scan# 1110

Delta R.T. -0.00 min

Lab File: VX013077.D

Acq: 15 Oct 2019 14:54

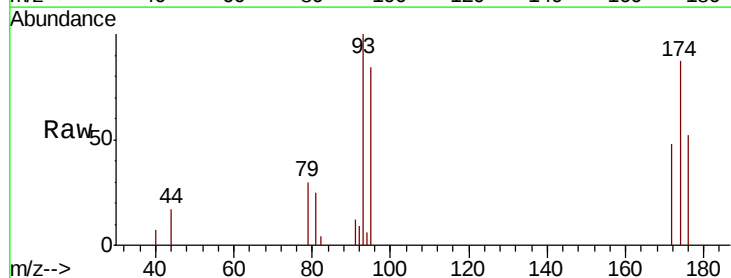
Tgt Ion: 93 Resp: 3326

Ion Ratio Lower Upper

93 100

95 83.2 66.3 99.5

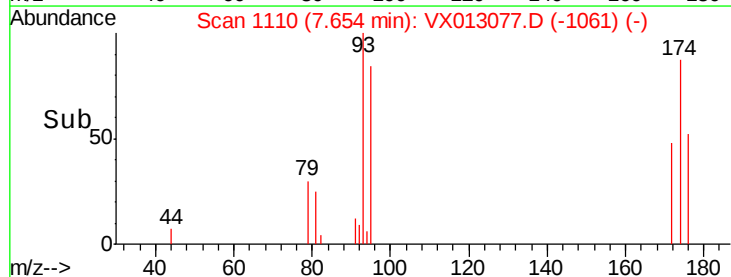
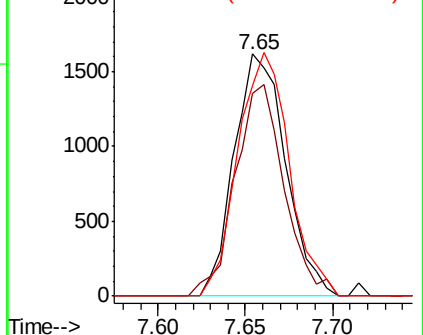
174 100.8 77.8 116.6

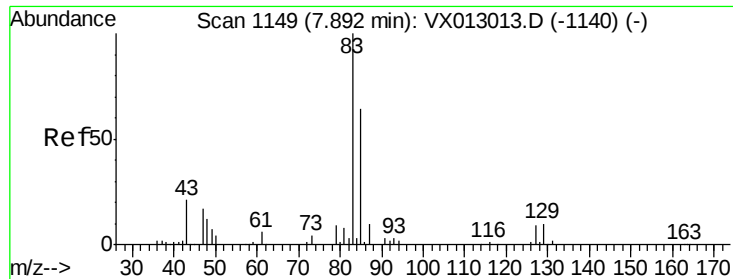


Abundance Ion 92.80 (92.50 to 93.50): VX0

Ion 94.80 (94.50 to 95.50): VX0

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 2.557 ug/l

RT: 7.89 min Scan# 1149

Delta R.T. -0.00 min

Lab File: VX013077.D

Acq: 15 Oct 2019 14:54

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

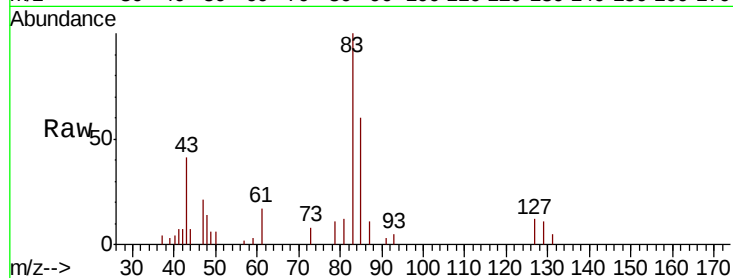
Tot Ion: 83 Resp: 6015

Ion Ratio Lower Upper

83 100

85 59.6 52.4 78.6

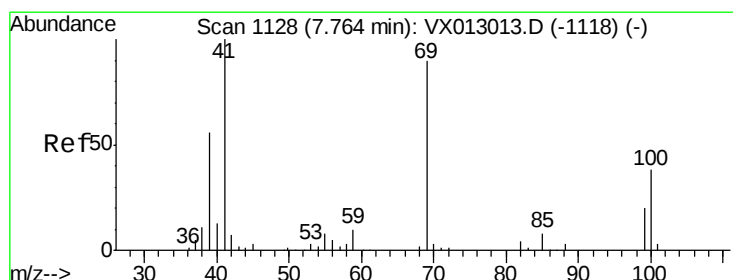
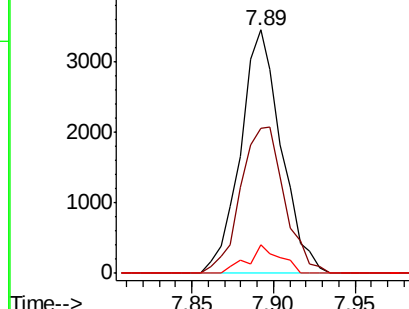
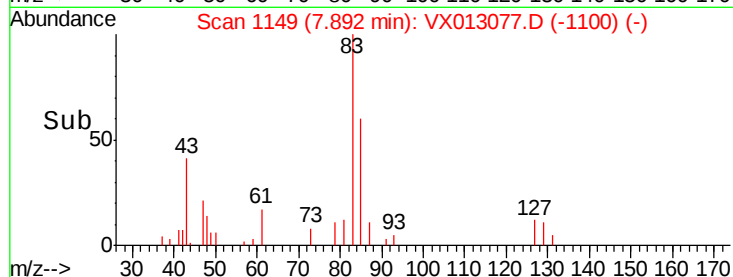
127 11.6 6.6 10.0#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 2.442 ug/l

RT: 7.76 min Scan# 1128

Delta R.T. -0.00 min

Lab File: VX013077.D

Acq: 15 Oct 2019 14:54

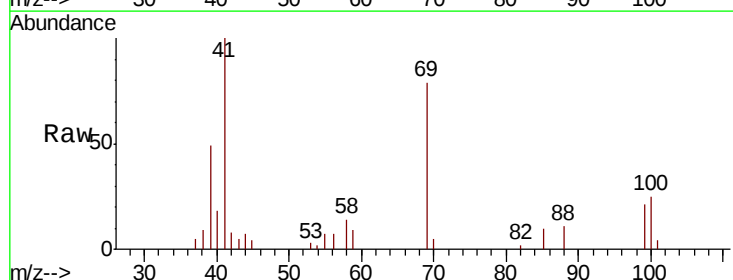
Tgt Ion: 41 Resp: 5135

Ion Ratio Lower Upper

41 100

69 84.7 68.7 103.1

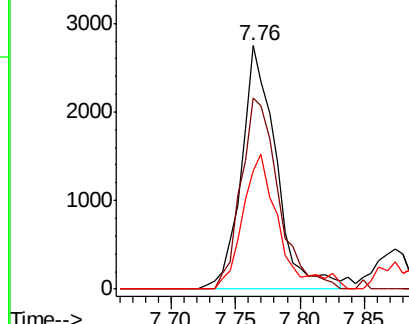
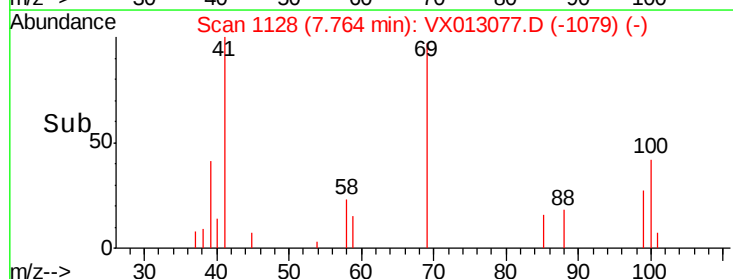
39 53.8 44.3 66.5

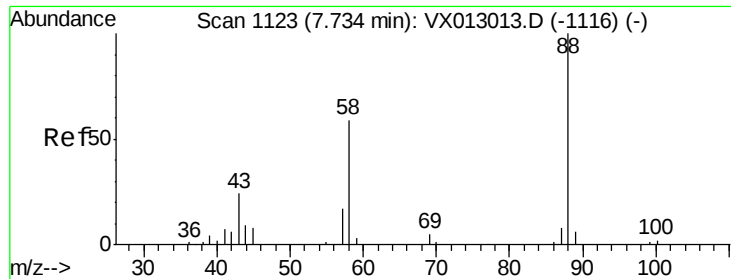


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

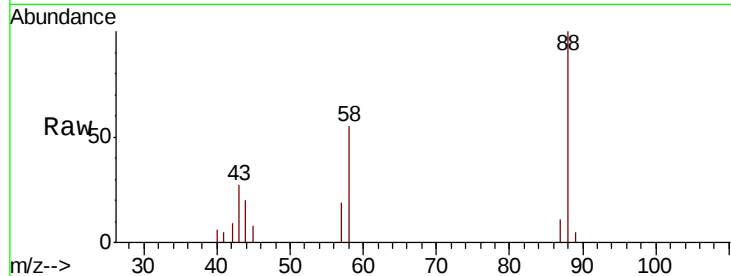




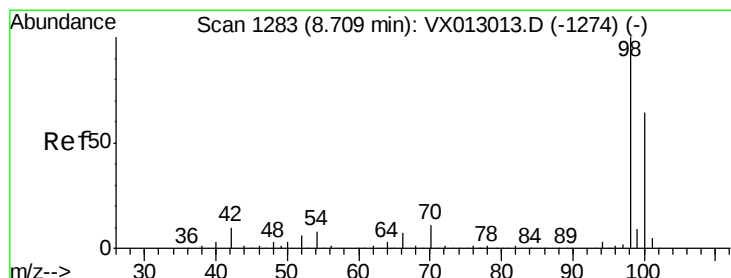
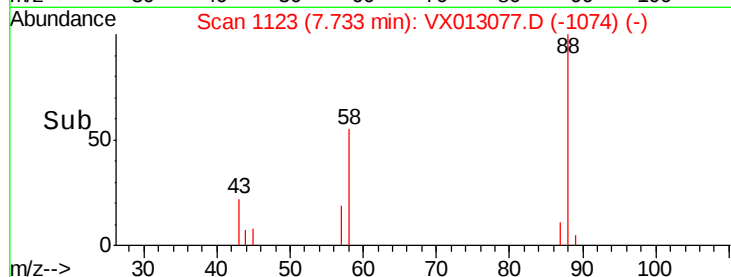
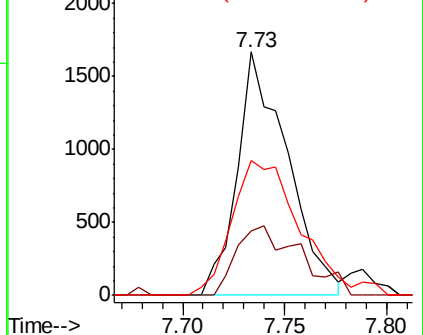
#49
1,4-Dioxane
Concen: 83.843 ug/l
RT: 7.73 min Scan# 1123
Delta R.T. 0.00 min
Lab File: VX013077.D
Acq: 15 Oct 2019 14:54

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 88 Resp: 2851
Ion Ratio Lower Upper
88 100
43 36.2 25.0 37.6
58 75.8 55.4 83.2

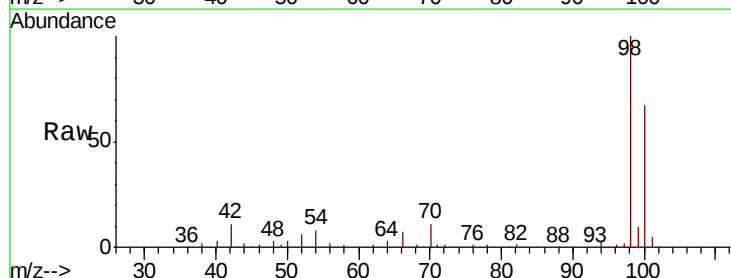


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

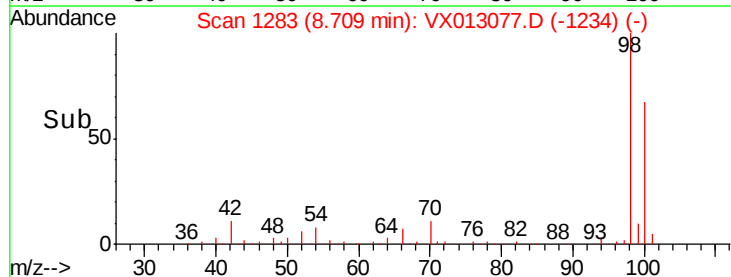
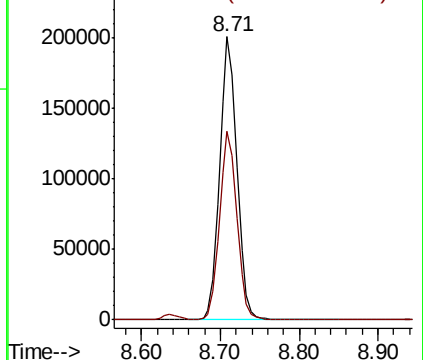


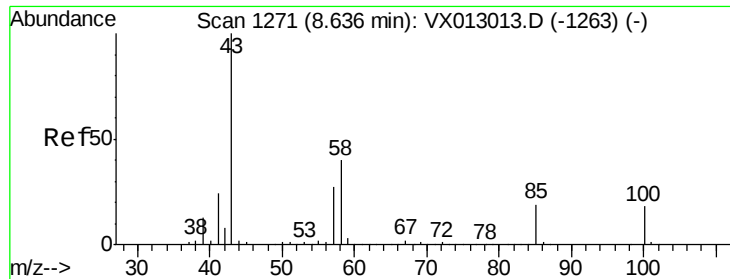
#50
Toluene-d8
Concen: 50.156 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX013077.D
Acq: 15 Oct 2019 14:54

Tgt Ion: 98 Resp: 306986
Ion Ratio Lower Upper
98 100
100 66.8 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 12.843 ug/l

RT: 8.64 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VX013077.D

Acq: 15 Oct 2019 14:54

Instrument :

MSVOA_X

ClientSampleId :

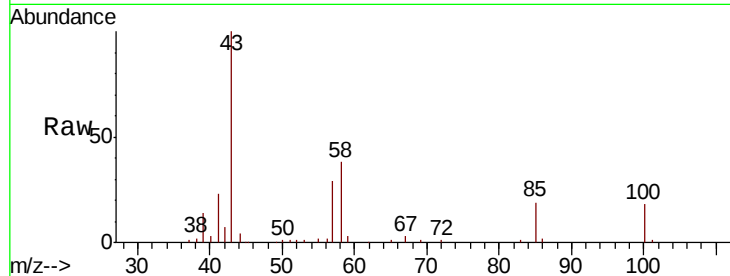
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 43 Resp: 34547

Ion Ratio Lower Upper

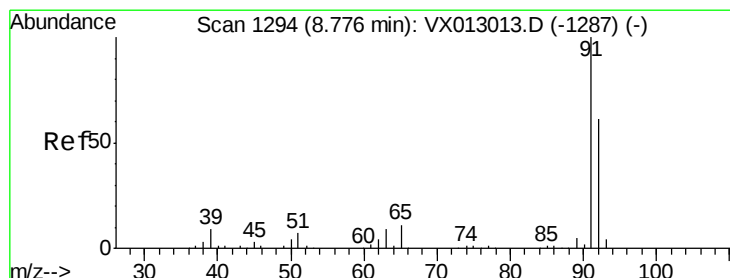
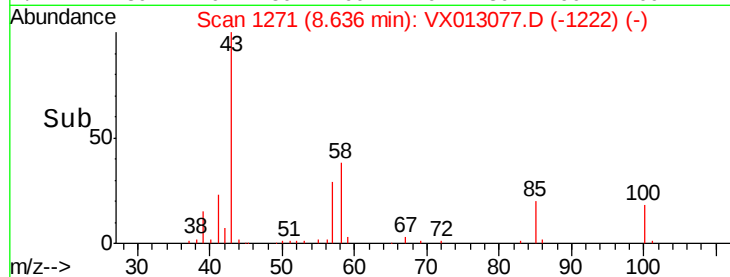
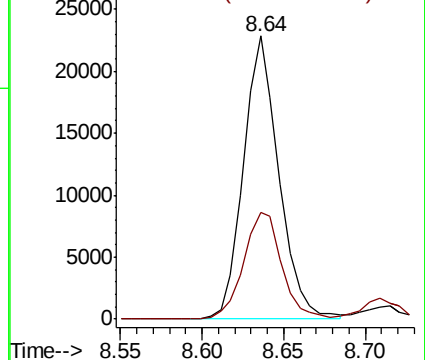
43 100

58 40.5 32.4 48.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#52

Toluene

Concen: 2.750 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. -0.00 min

Lab File: VX013077.D

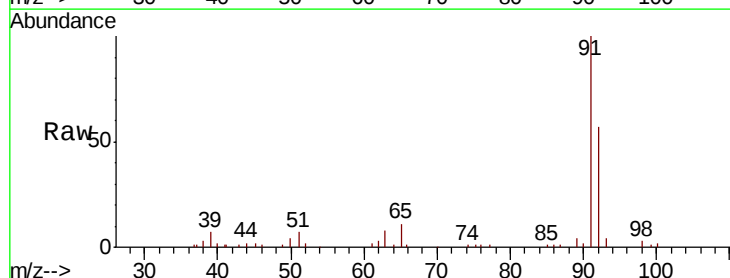
Acq: 15 Oct 2019 14:54

Tgt Ion: 92 Resp: 12492

Ion Ratio Lower Upper

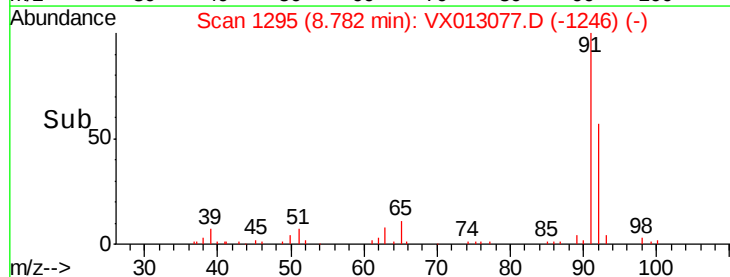
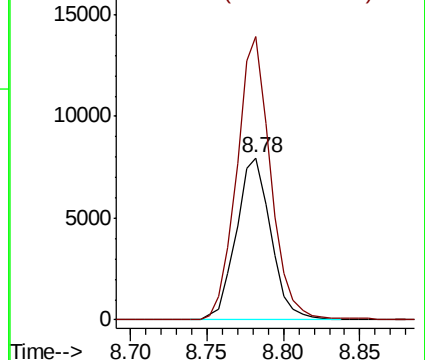
92 100

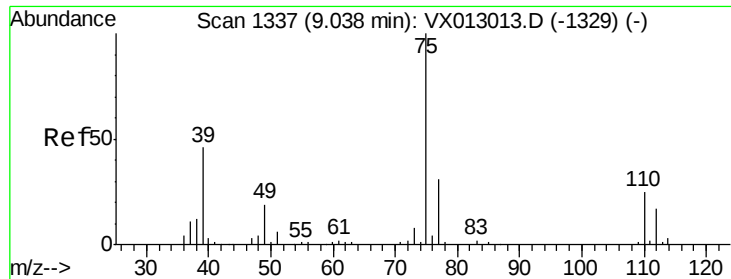
91 171.4 135.9 203.9



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0

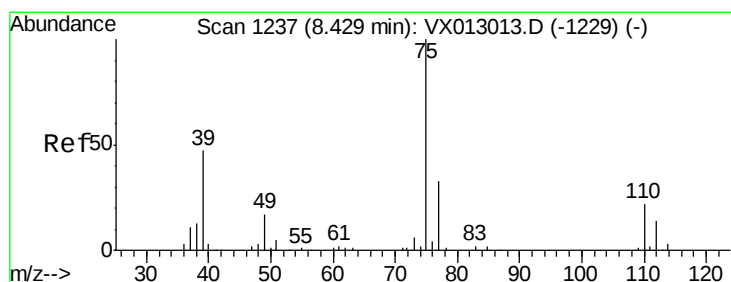
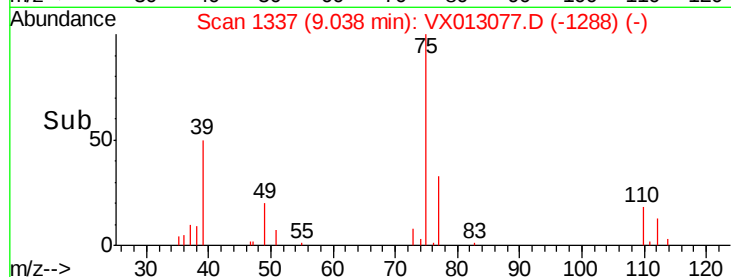
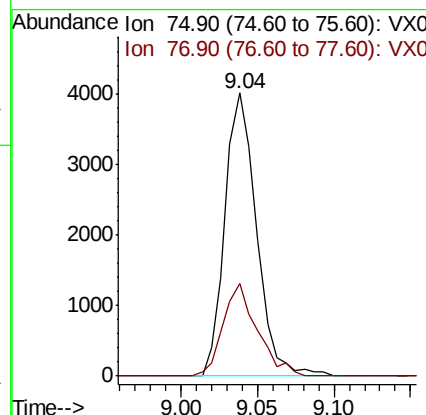
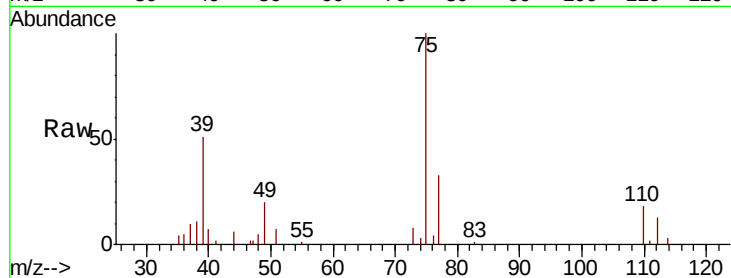




#53
t-1,3-Dichloropropene
Concen: 4.048 ug/l
RT: 9.04 min Scan# 1337
Delta R.T. 0.00 min
Lab File: VX013077.D
Acq: 15 Oct 2019 14:54

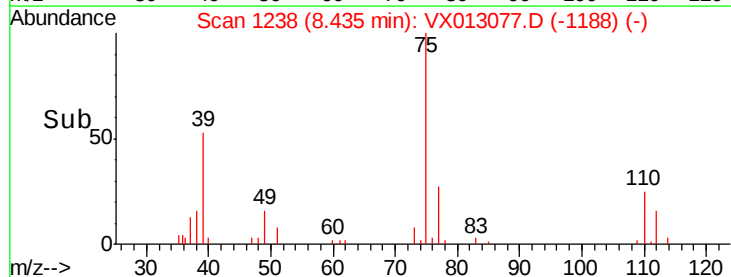
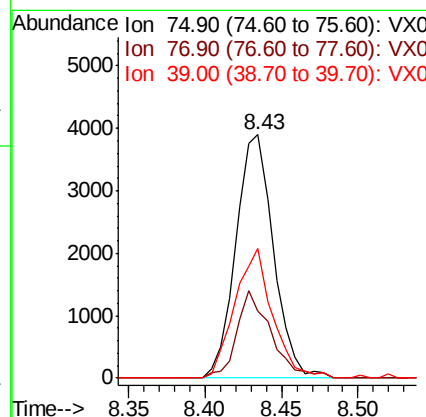
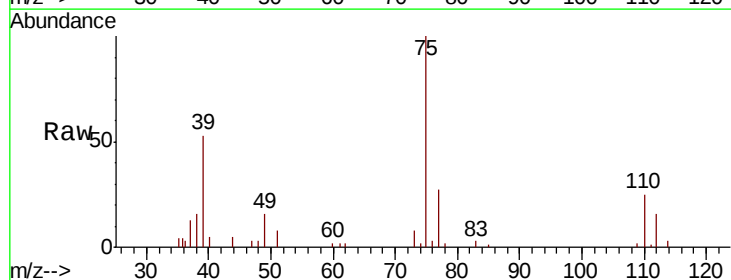
Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

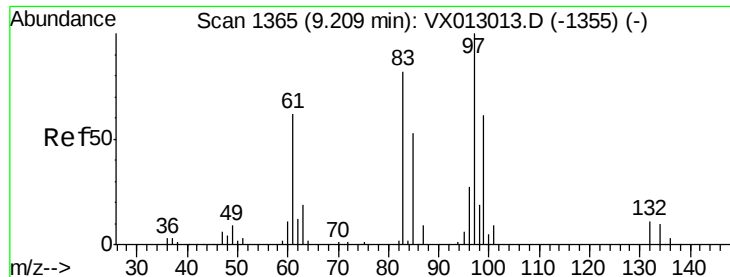
Tot Ion: 75 Resp: 5768
Ion Ratio Lower Upper
75 100
77 32.9 25.8 38.6



#54
cis-1,3-Dichloropropene
Concen: 2.300 ug/l
RT: 8.43 min Scan# 1238
Delta R.T. 0.01 min
Lab File: VX013077.D
Acq: 15 Oct 2019 14:54

Tgt Ion: 75 Resp: 6656
Ion Ratio Lower Upper
75 100
77 27.4 25.8 38.8
39 53.1 38.2 57.2

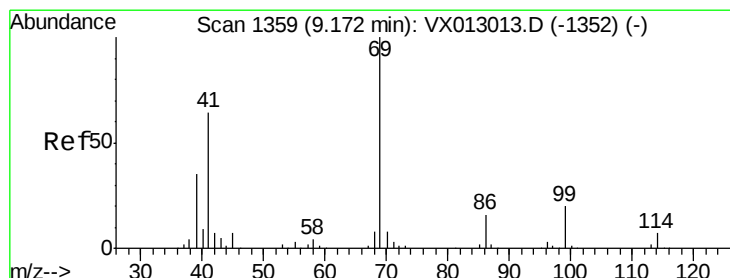
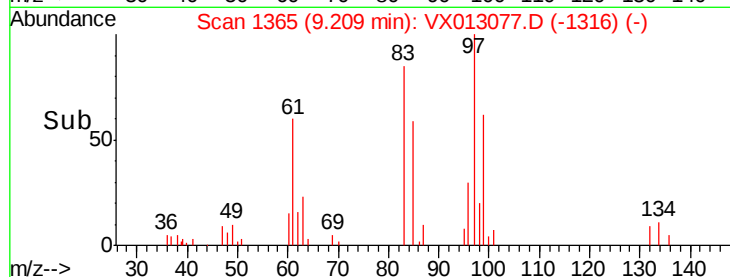
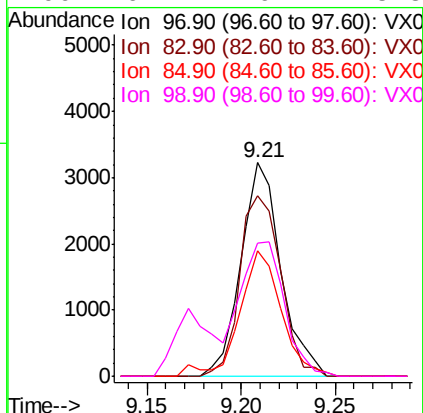
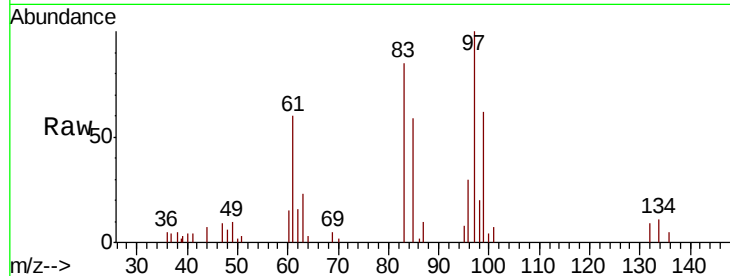




#55
 1,1,2-Trichloroethane
 Concen: 2.634 ug/l
 RT: 9.21 min Scan# 1365
 Delta R.T. -0.00 min
 Lab File: VX013077.D
 Acq: 15 Oct 2019 14:54

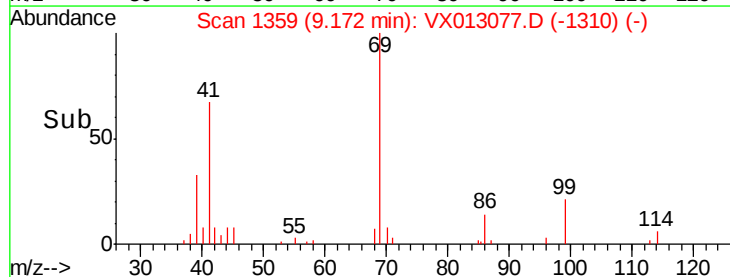
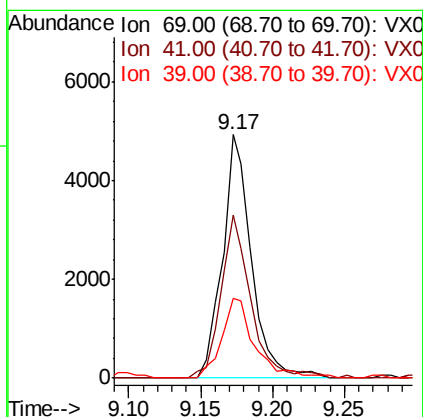
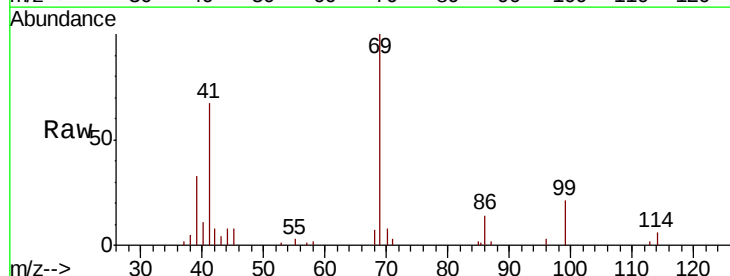
Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

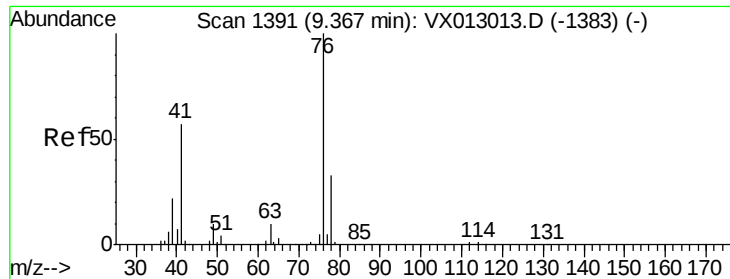
Tot Ion: 97 Resp: 4734
 Ion Ratio Lower Upper
 97 100
 83 84.5 66.5 99.7
 85 58.7 43.1 64.7
 99 62.4 49.2 73.8



#56
 Ethyl methacrylate
 Concen: 3.921 ug/l
 RT: 9.17 min Scan# 1359
 Delta R.T. 0.00 min
 Lab File: VX013077.D
 Acq: 15 Oct 2019 14:54

Tgt Ion: 69 Resp: 6982
 Ion Ratio Lower Upper
 69 100
 41 67.2 52.1 78.1
 39 37.3 27.8 41.8

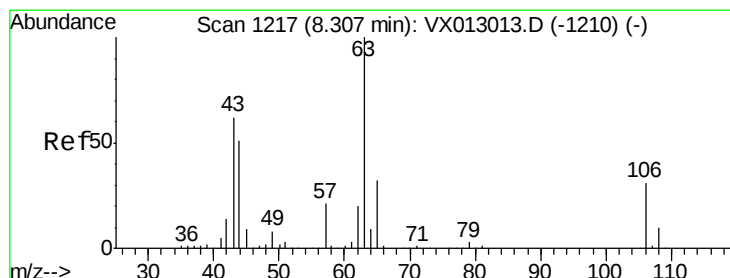
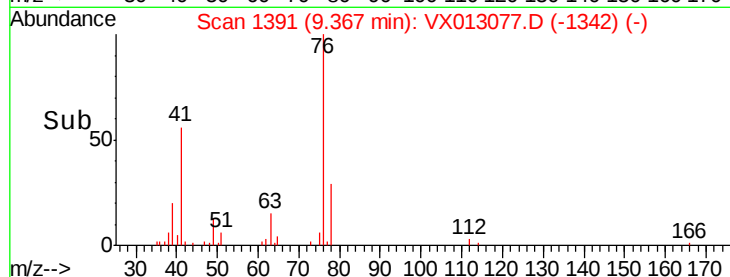
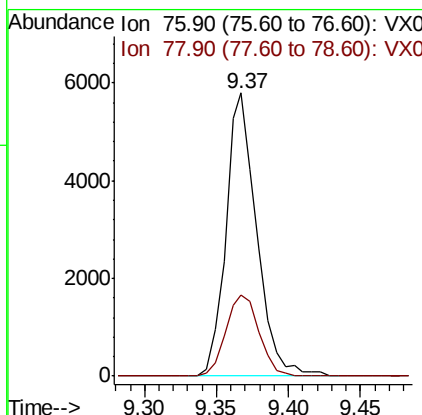
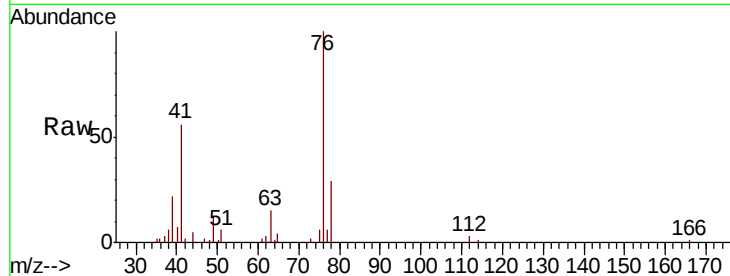




#57
 1,3-Dichloropropane
 Concen: 2.783 ug/l
 RT: 9.37 min Scan# 1391
 Delta R.T. -0.00 min
 Lab File: VX013077.D
 Acq: 15 Oct 2019 14:54

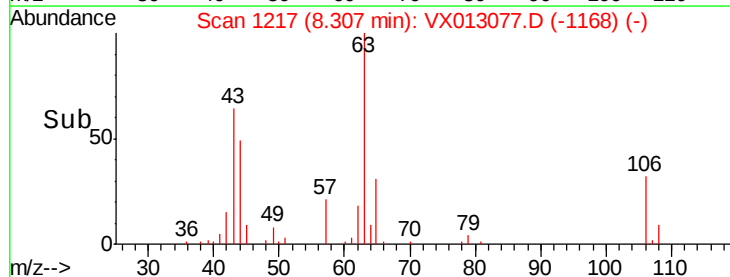
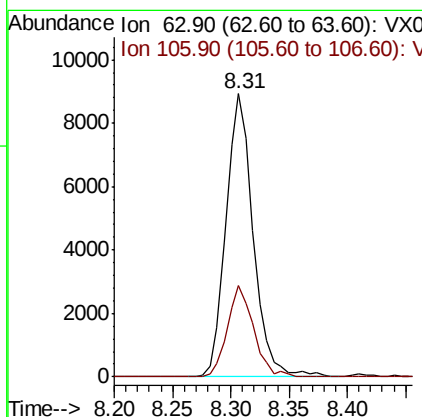
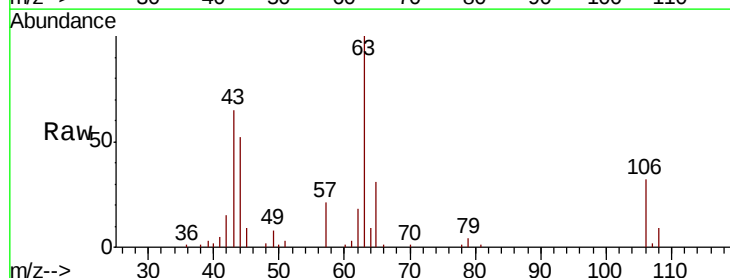
Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

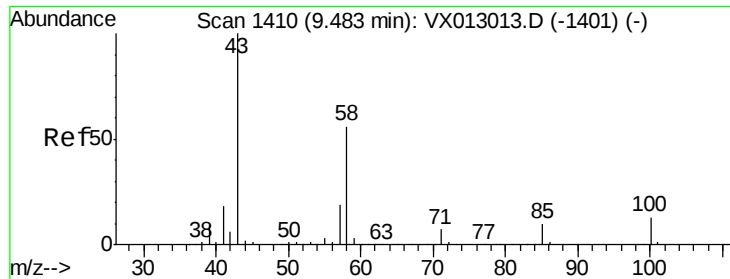
Tot Ion: 76 Resp: 8654
 Ion Ratio Lower Upper
 76 100
 78 30.8 26.1 39.1



#58
 2-Chloroethyl Vinyl ether
 Concen: 10.964 ug/l
 RT: 8.31 min Scan# 1217
 Delta R.T. -0.00 min
 Lab File: VX013077.D
 Acq: 15 Oct 2019 14:54

Tgt Ion: 63 Resp: 14478
 Ion Ratio Lower Upper
 63 100
 106 30.9 23.8 35.8

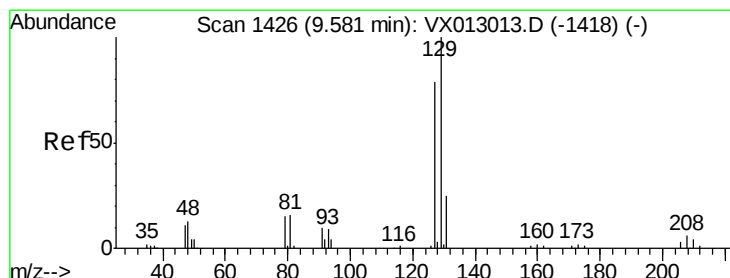
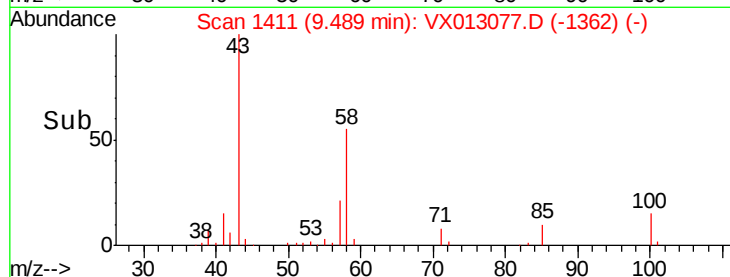
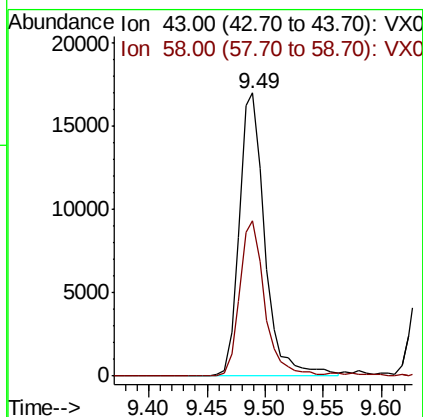
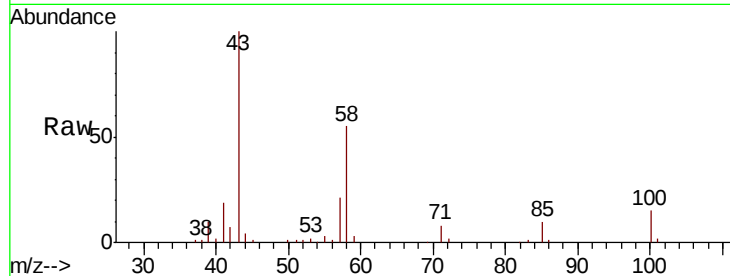




#59
2-Hexanone
Concen: 12.486 ug/l
RT: 9.49 min Scan# 1411
Delta R.T. -0.00 min
Lab File: VX013077.D
Acq: 15 Oct 2019 14:54

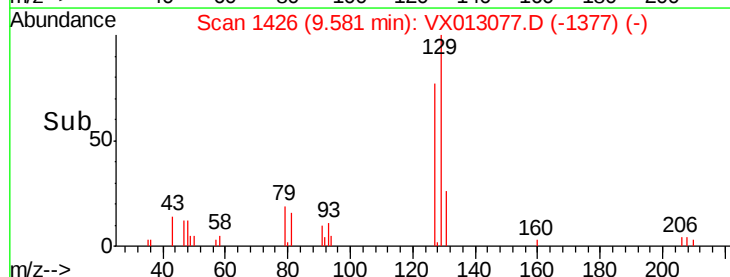
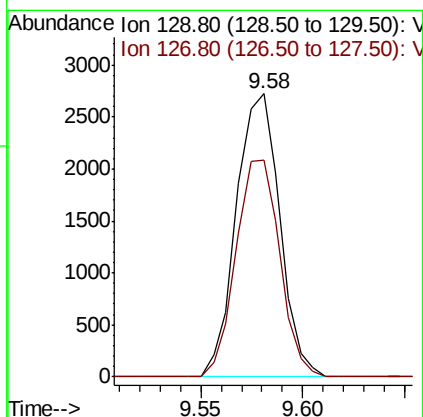
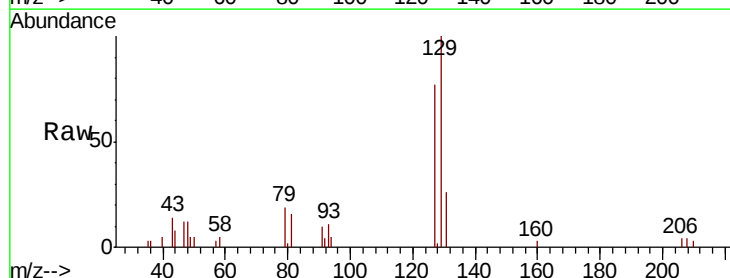
Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

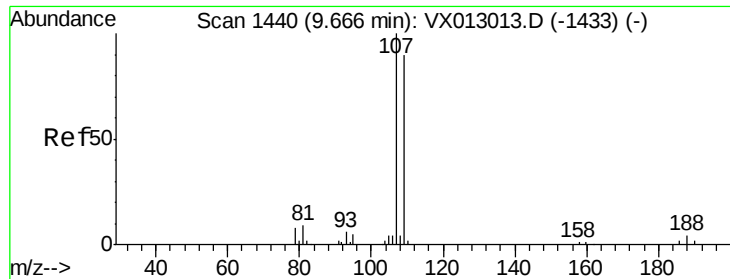
Tot Ion: 43 Resp: 26144
Ion Ratio Lower Upper
43 100
58 53.8 28.1 84.3



#60
Dibromochloromethane
Concen: 3.798 ug/l
RT: 9.58 min Scan# 1426
Delta R.T. 0.00 min
Lab File: VX013077.D
Acq: 15 Oct 2019 14:54

Tgt Ion: 129 Resp: 4033
Ion Ratio Lower Upper
129 100
127 77.0 38.9 116.7





#61

1,2-Dibromoethane

Concen: 2.499 ug/l

RT: 9.67 min Scan# 1440

Delta R.T. -0.00 min

Lab File: VX013077.D

Acq: 15 Oct 2019 14:54

Instrument :

MSVOA_X

ClientSampleId :

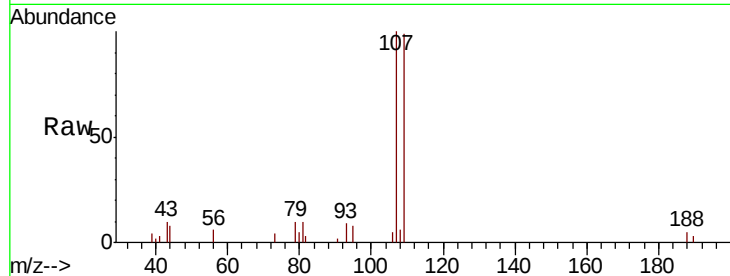
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 107 Resp: 4725

Ion Ratio Lower Upper

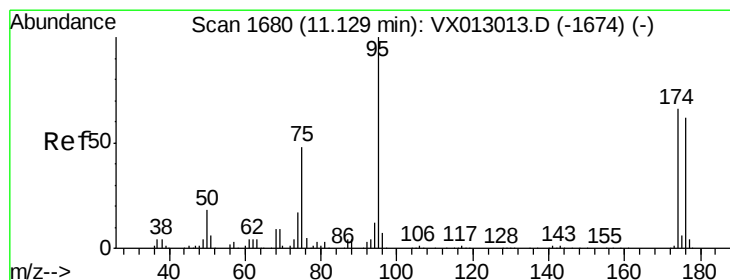
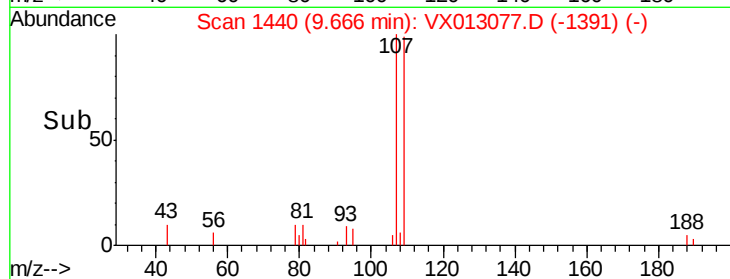
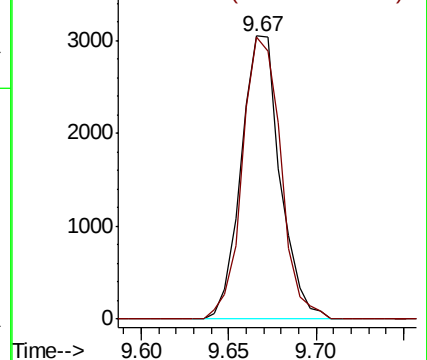
107 100

109 98.4 75.8 113.6



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 47.433 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX013077.D

Acq: 15 Oct 2019 14:54

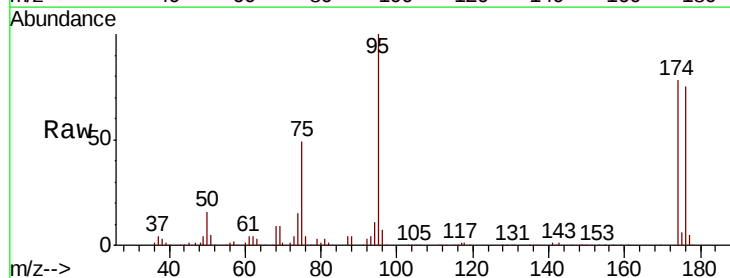
Tgt Ion: 95 Resp: 112805

Ion Ratio Lower Upper

95 100

174 73.4 0.0 143.4

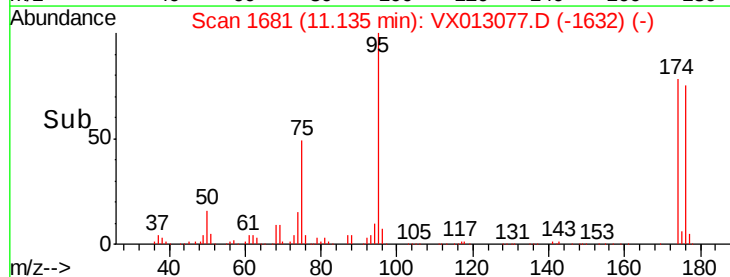
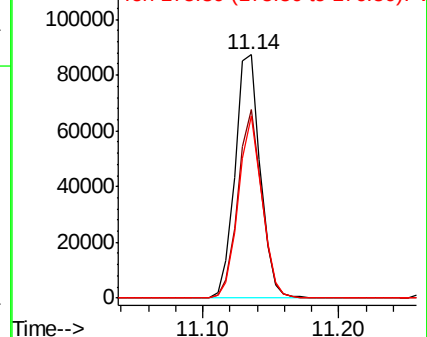
176 70.7 0.0 136.0

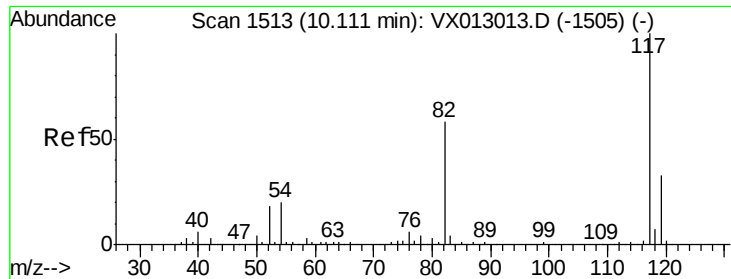


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

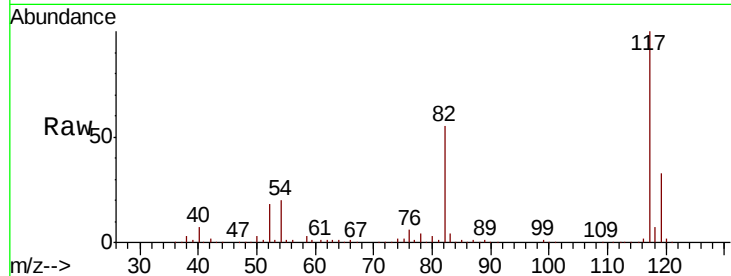




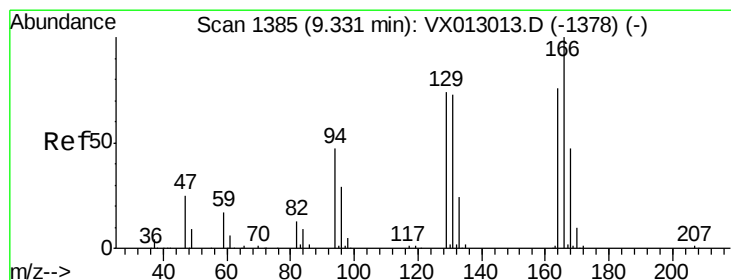
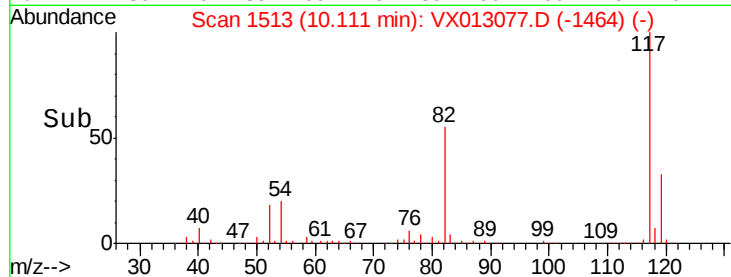
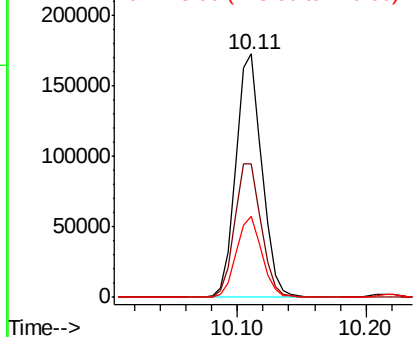
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013077.D
Acq: 15 Oct 2019 14:54

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:117 Resp: 241807
Ion Ratio Lower Upper
117 100
82 54.6 44.1 66.1
119 33.3 25.8 38.8



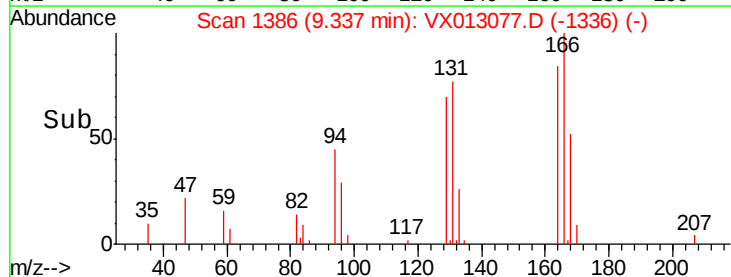
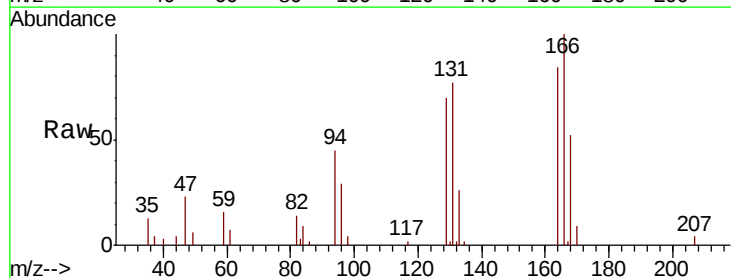
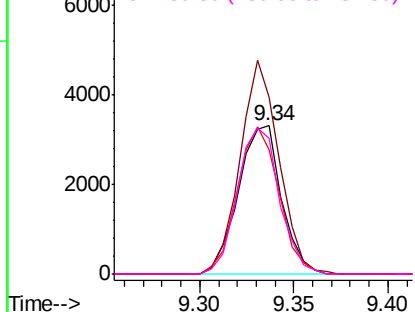
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

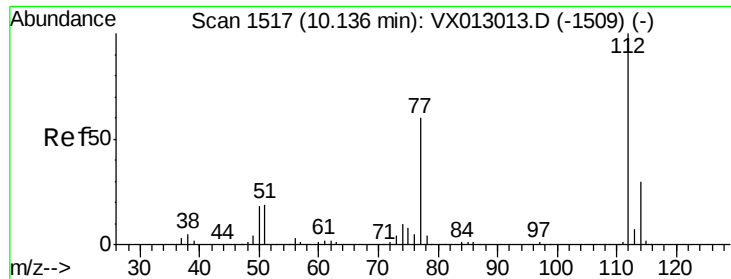


#64
Tetrachloroethene
Concen: 3.125 ug/l
RT: 9.34 min Scan# 1386
Delta R.T. 0.01 min
Lab File: VX013077.D
Acq: 15 Oct 2019 14:54

Tgt Ion:164 Resp: 5241
Ion Ratio Lower Upper
164 100
166 119.4 96.9 145.3
129 84.0 77.9 116.9
131 91.6 72.7 109.1

Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

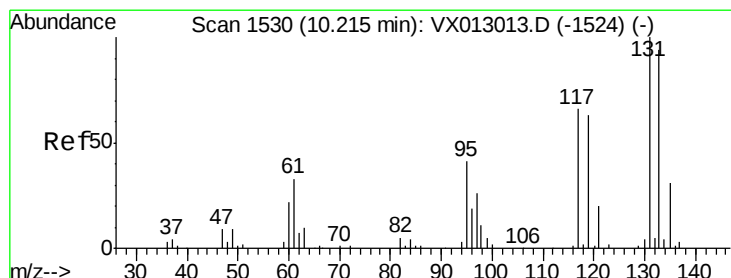
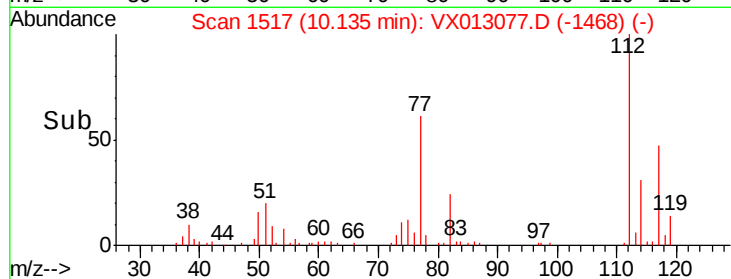
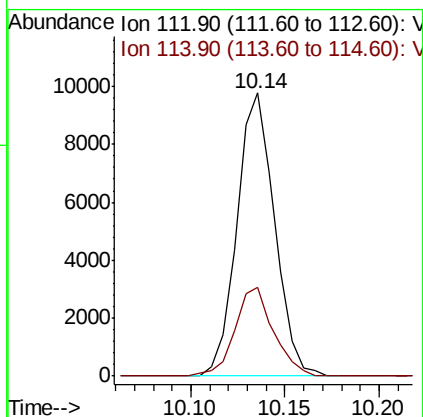
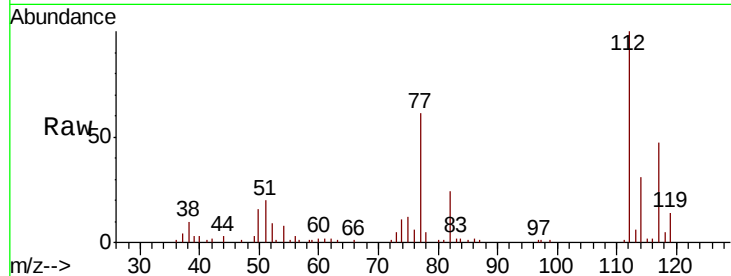




#65
Chlorobenzene
Concen: 2.810 ug/l
RT: 10.14 min Scan# 1517
Delta R.T. -0.00 min
Lab File: VX013077.D
Acq: 15 Oct 2019 14:54

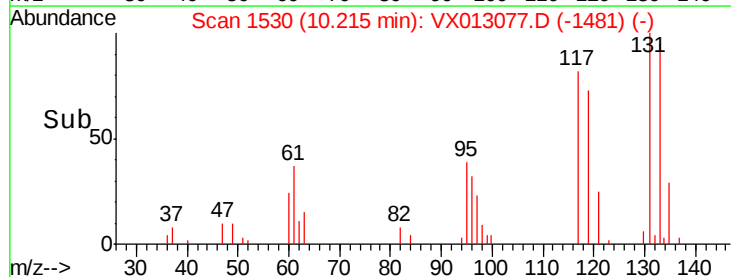
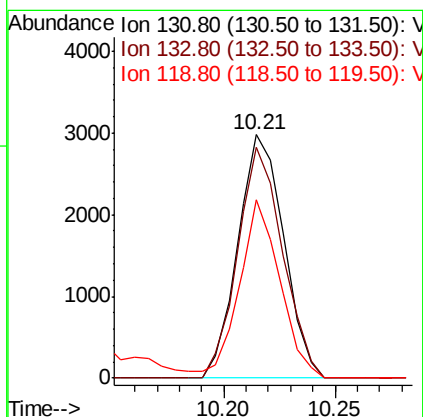
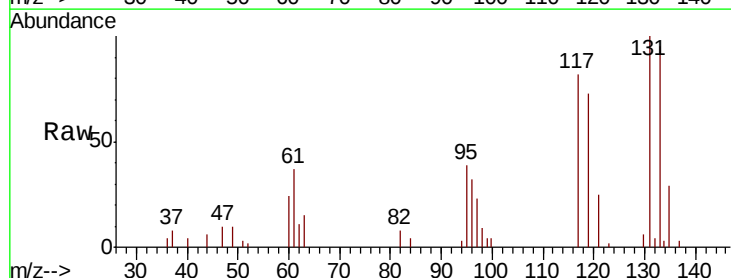
Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

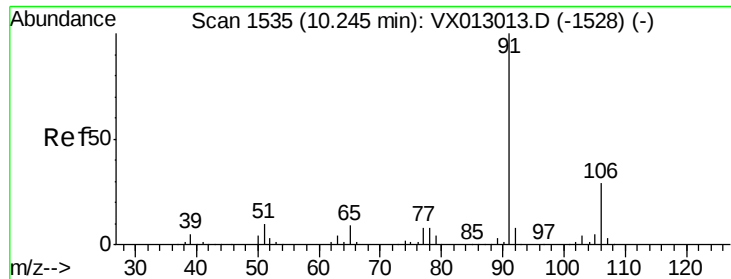
Tot Ion:112 Resp: 13494
Ion Ratio Lower Upper
112 100
114 31.3 25.7 38.5



#66
1,1,1,2-Tetrachloroethane
Concen: 2.565 ug/l
RT: 10.21 min Scan# 1530
Delta R.T. -0.00 min
Lab File: VX013077.D
Acq: 15 Oct 2019 14:54

Tgt Ion:131 Resp: 4270
Ion Ratio Lower Upper
131 100
133 93.6 47.2 141.6
119 65.0 32.6 98.0

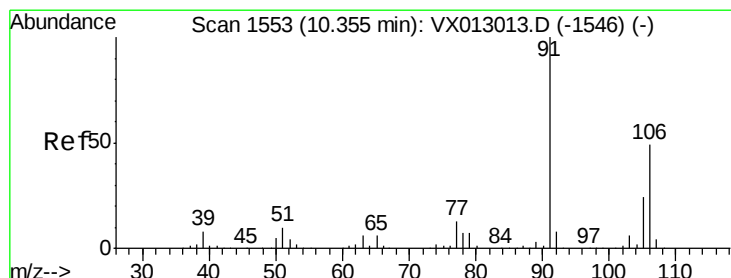
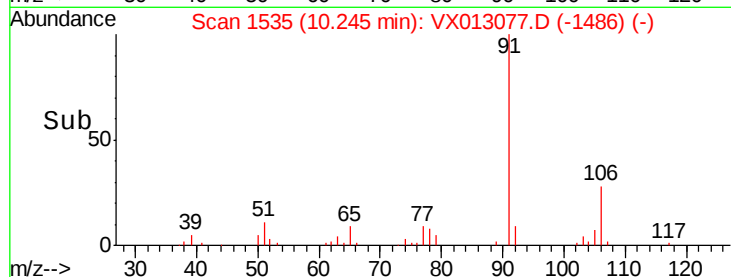
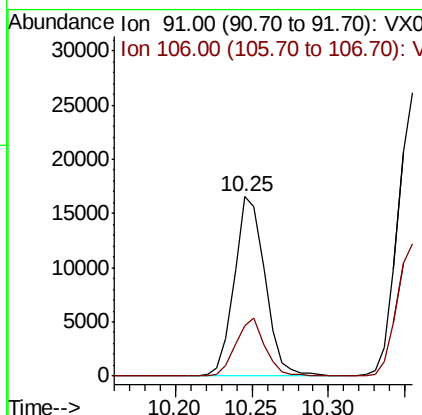
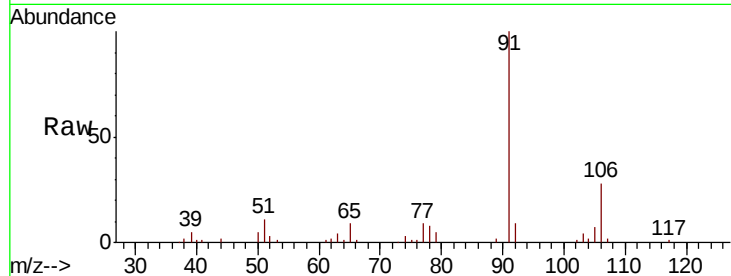




#67
Ethyl Benzene
Concen: 2.715 ug/l
RT: 10.25 min Scan# 1535
Delta R.T. -0.00 min
Lab File: VX013077.D
Acq: 15 Oct 2019 14:54

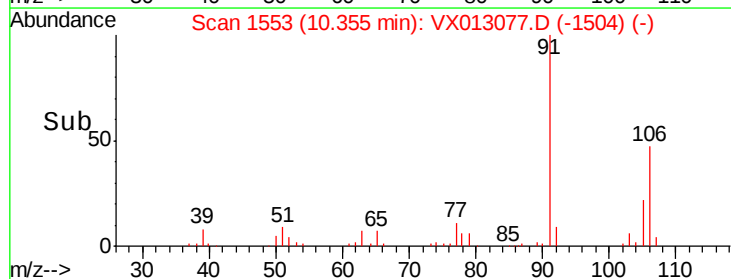
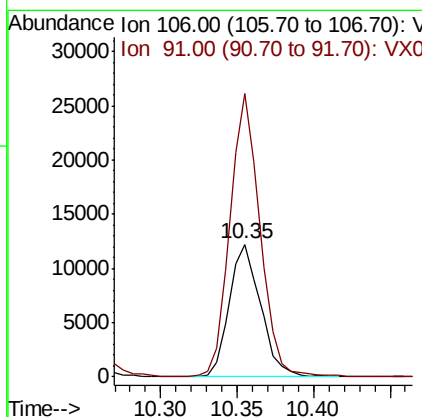
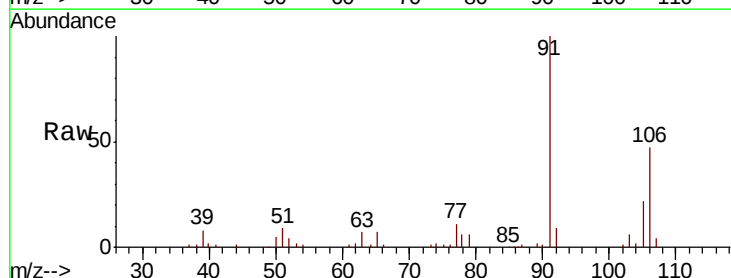
Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

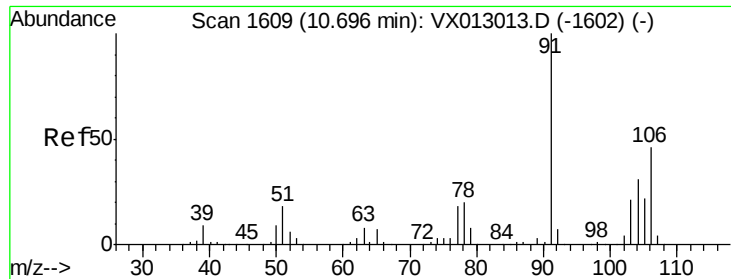
Tot Ion: 91 Resp: 23158
Ion Ratio Lower Upper
91 100
106 28.4 23.9 35.9



#68
m/p-Xylenes
Concen: 5.463 ug/l
RT: 10.35 min Scan# 1553
Delta R.T. -0.00 min
Lab File: VX013077.D
Acq: 15 Oct 2019 14:54

Tgt Ion: 106 Resp: 17407
Ion Ratio Lower Upper
106 100
91 204.1 165.3 247.9

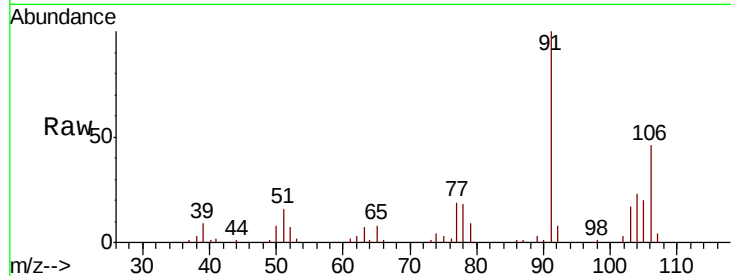




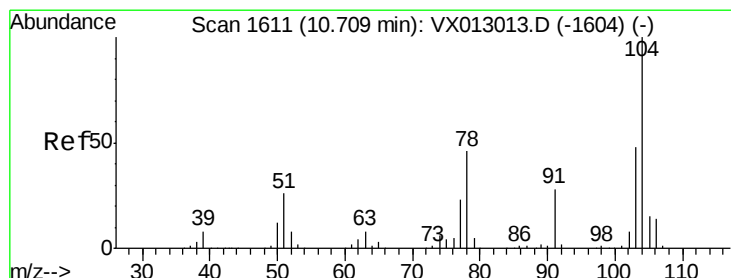
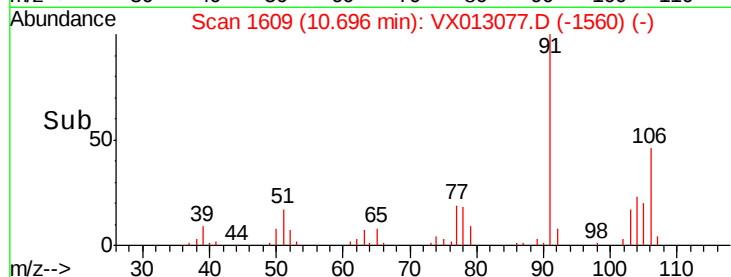
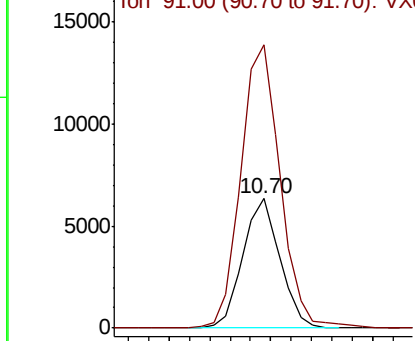
#69
o-Xylene
Concen: 2.586 ug/l
RT: 10.70 min Scan# 1609
Delta R.T. -0.00 min
Lab File: VX013077.D
Acq: 15 Oct 2019 14:54

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:106 Resp: 8036
Ion Ratio Lower Upper
106 100
91 231.6 109.1 327.3

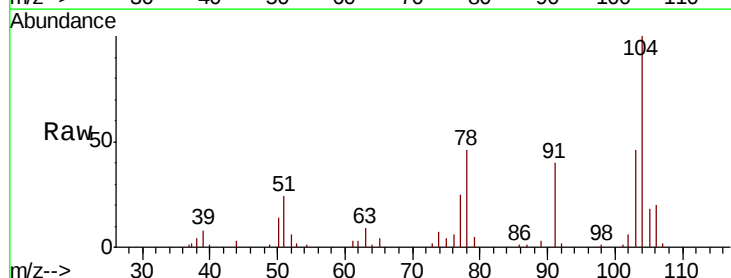


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

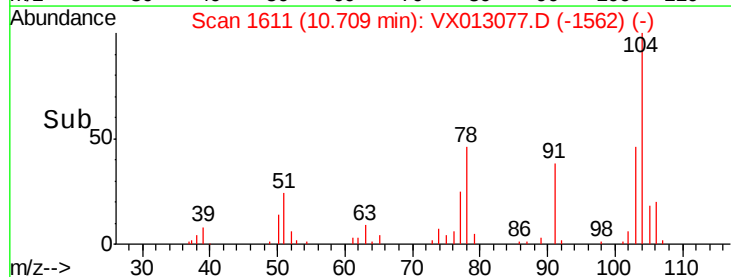
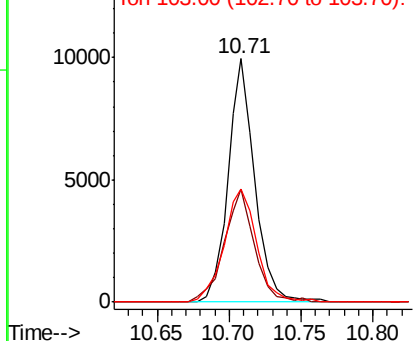


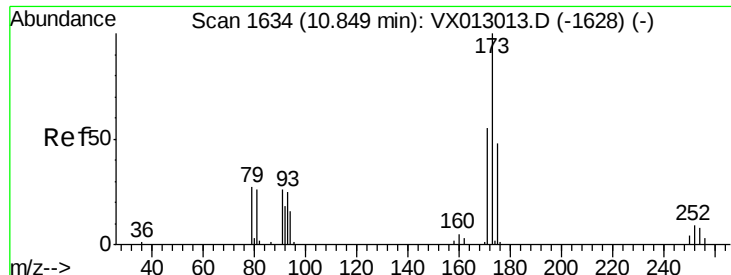
#70
Styrene
Concen: 2.449 ug/l
RT: 10.71 min Scan# 1611
Delta R.T. -0.00 min
Lab File: VX013077.D
Acq: 15 Oct 2019 14:54

Tgt Ion:104 Resp: 12938
Ion Ratio Lower Upper
104 100
78 52.5 41.2 61.8
103 57.0 43.0 64.4



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VX0
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 4.821 ug/l

RT: 10.85 min Scan# 1635

Delta R.T. 0.00 min

Lab File: VX013077.D

Acq: 15 Oct 2019 14:54

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

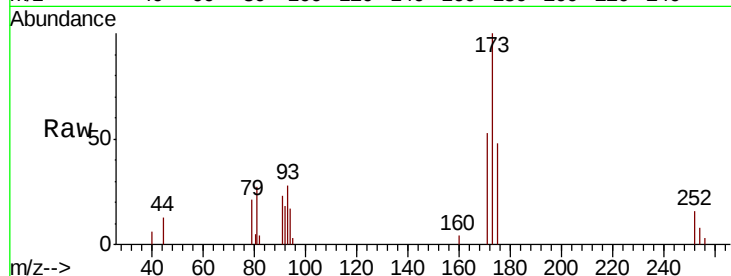
Tot Ion:173 Resp: 2554

Ion Ratio Lower Upper

173 100

175 50.3 24.1 72.3

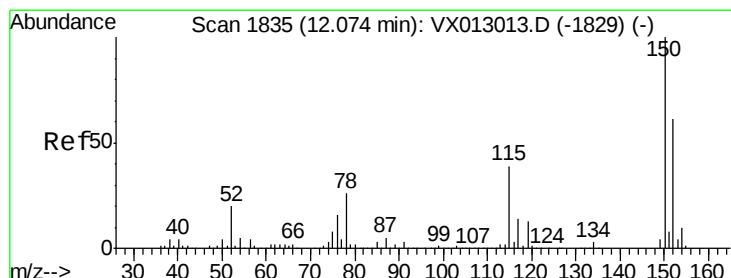
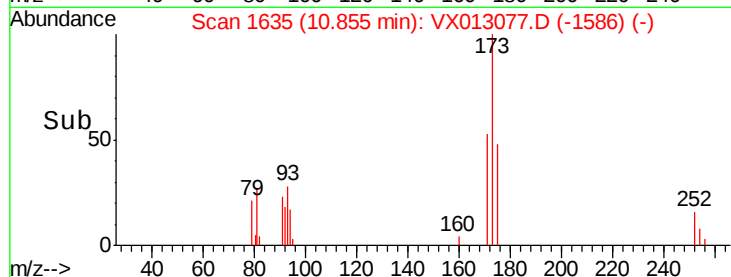
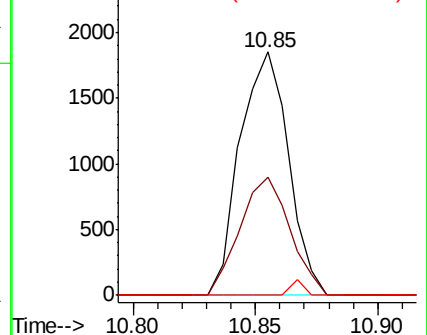
254 1.8 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX013077.D

Acq: 15 Oct 2019 14:54

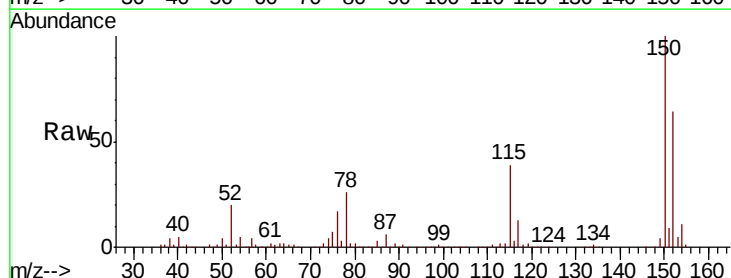
Tgt Ion:152 Resp: 107092

Ion Ratio Lower Upper

152 100

115 62.8 44.5 133.5

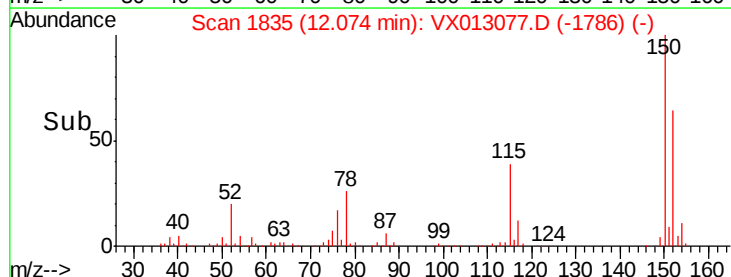
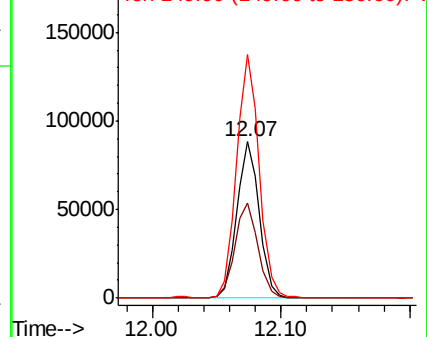
150 157.3 0.0 353.4

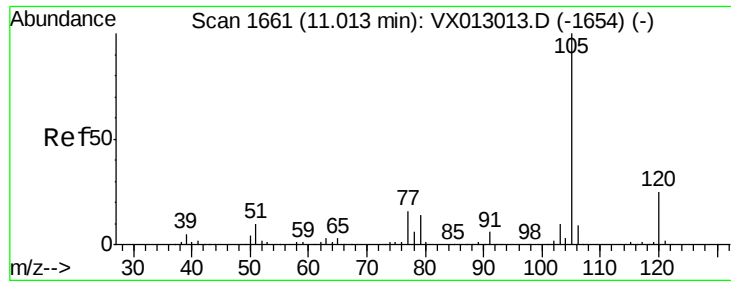


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 2.659 ug/l

RT: 11.01 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VX013077.D

Acq: 15 Oct 2019 14:54

Instrument :

MSVOA_X

ClientSampleId :

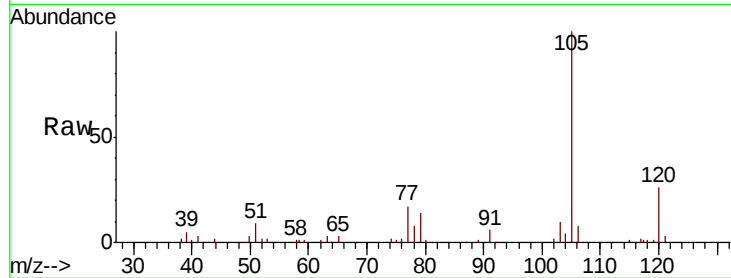
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:105 Resp: 20936

Ion Ratio Lower Upper

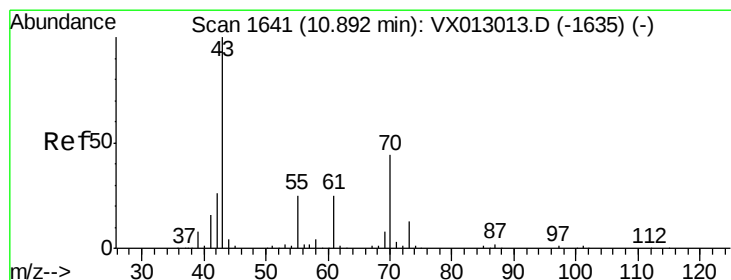
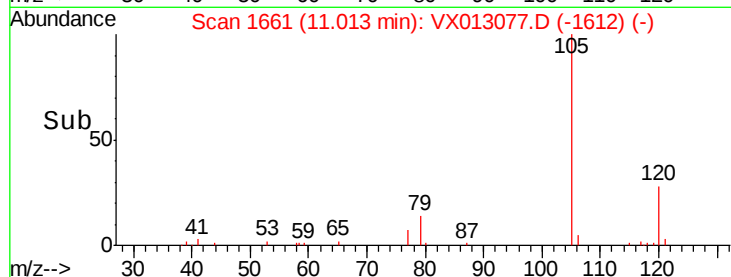
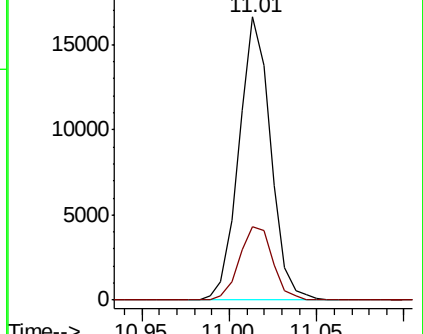
105 100

120 27.3 13.0 39.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 2.217 ug/l

RT: 10.89 min Scan# 1641

Delta R.T. -0.00 min

Lab File: VX013077.D

Acq: 15 Oct 2019 14:54

Tgt Ion: 43 Resp: 7517

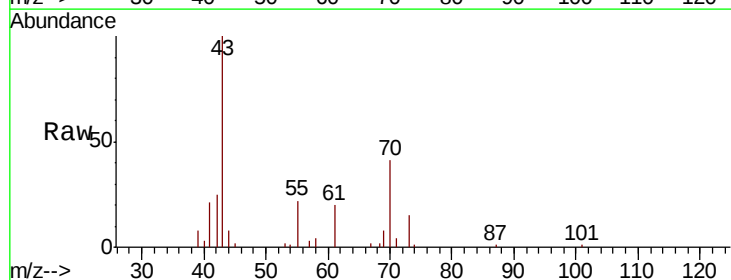
Ion Ratio Lower Upper

43 100

70 47.3 36.4 54.6

55 25.2 20.2 30.2

61 25.5 20.5 30.7

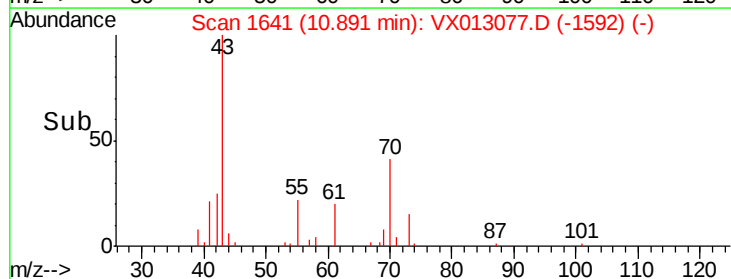
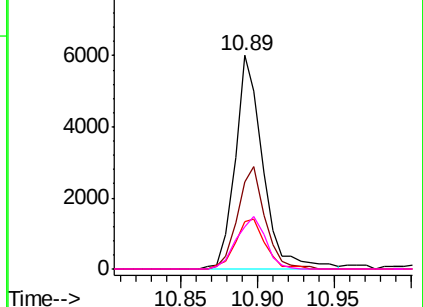


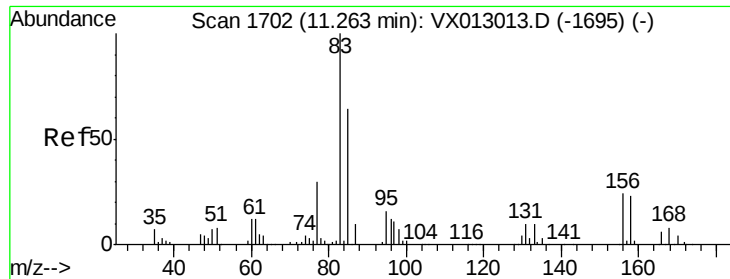
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#75

1,1,2,2-Tetrachloroethane

Concen: 2.790 ug/l

RT: 11.26 min Scan# 1702

Delta R.T. -0.00 min

Lab File: VX013077.D

Acq: 15 Oct 2019 14:54

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

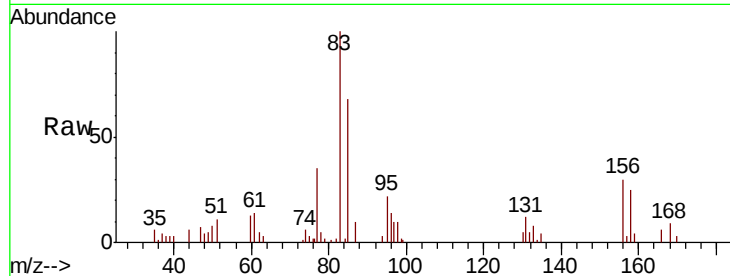
Tot Ion: 83 Resp: 7306

Ion Ratio Lower Upper

83 100

131 10.6 5.1 15.3

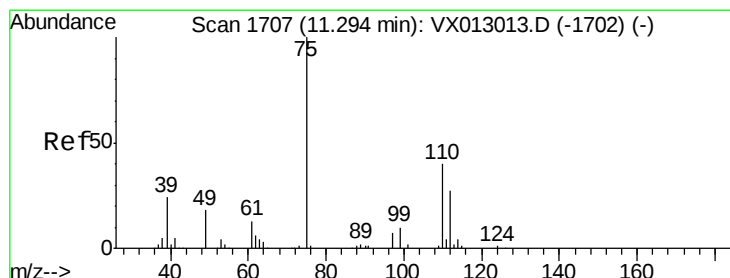
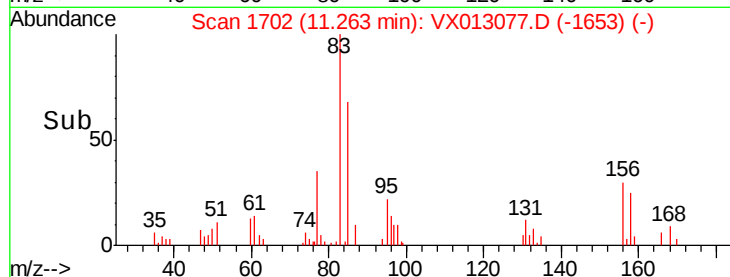
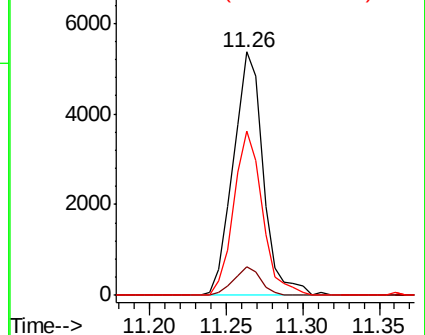
85 64.6 32.1 96.5



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0



#76

1,2,3-Trichloropropane

Concen: 3.163 ug/l

RT: 11.29 min Scan# 1707

Delta R.T. 0.01 min

Lab File: VX013077.D

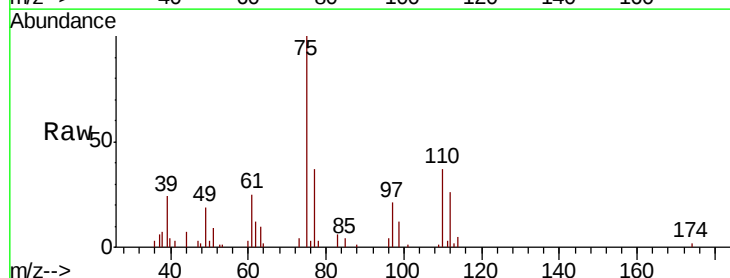
Acq: 15 Oct 2019 14:54

Tgt Ion: 75 Resp: 7514

Ion Ratio Lower Upper

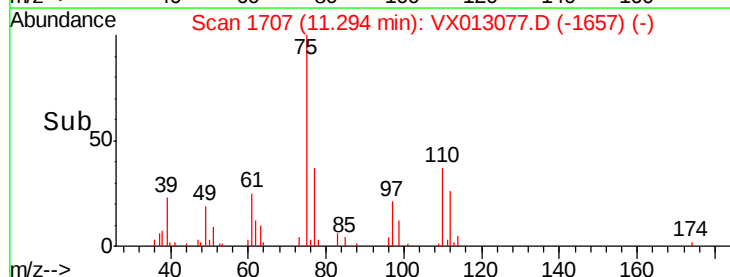
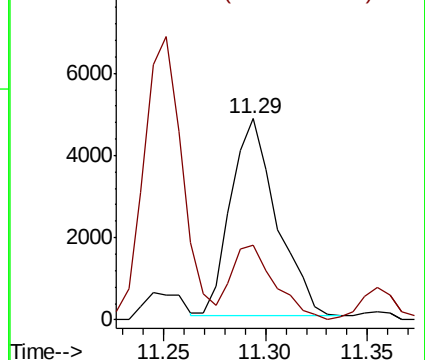
75 100

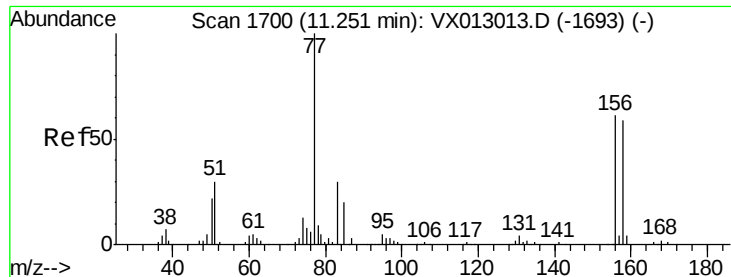
77 35.8 22.9 68.8



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#77

Bromobenzene

Concen: 3.116 ug/l

RT: 11.25 min Scan# 1700

Delta R.T. -0.00 min

Lab File: VX013077.D

Acq: 15 Oct 2019 14:54

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

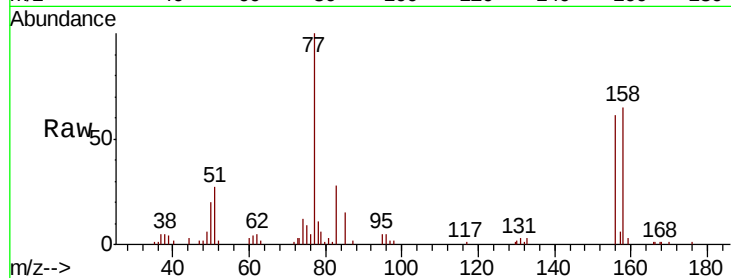
Tot Ion:156 Resp: 5782

Ion Ratio Lower Upper

156 100

77 156.1 83.7 251.0

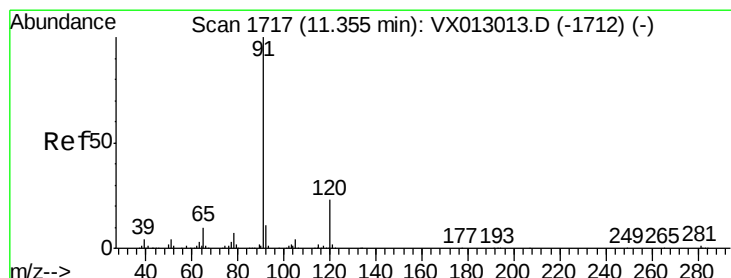
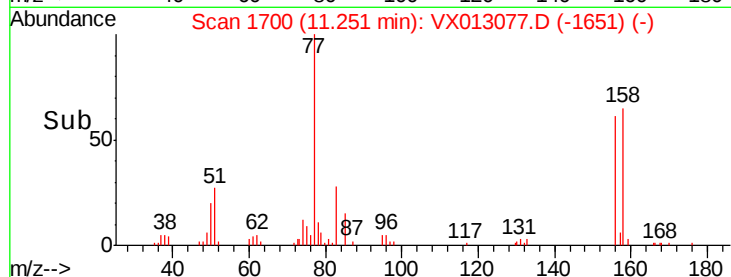
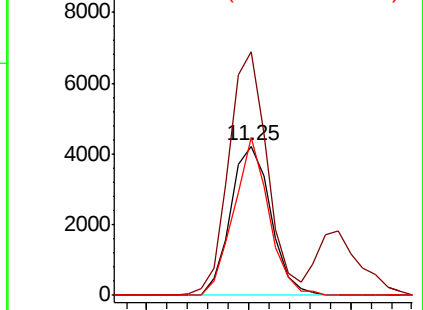
158 91.6 48.6 145.9



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VX0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 2.616 ug/l

RT: 11.35 min Scan# 1717

Delta R.T. -0.00 min

Lab File: VX013077.D

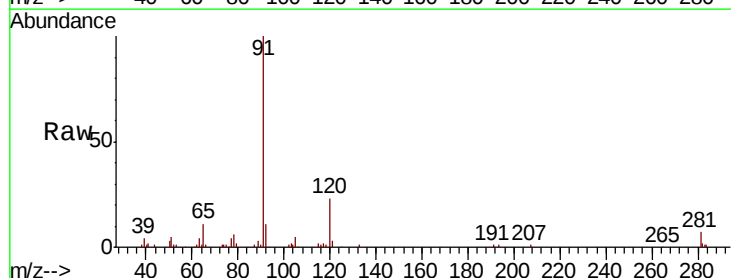
Acq: 15 Oct 2019 14:54

Tgt Ion: 91 Resp: 22669

Ion Ratio Lower Upper

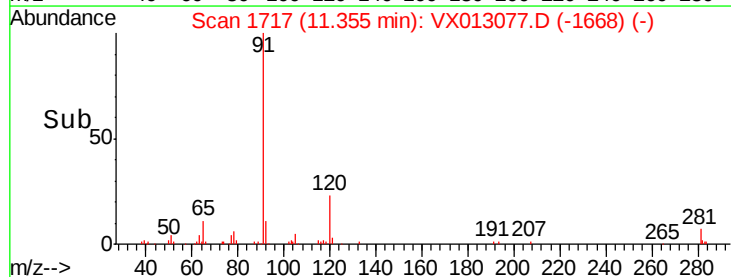
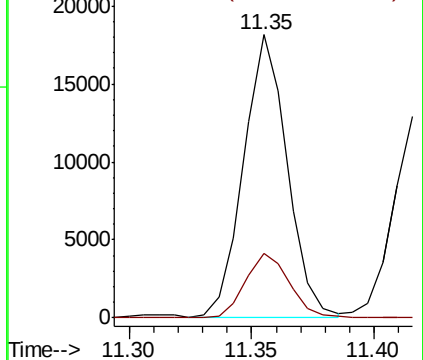
91 100

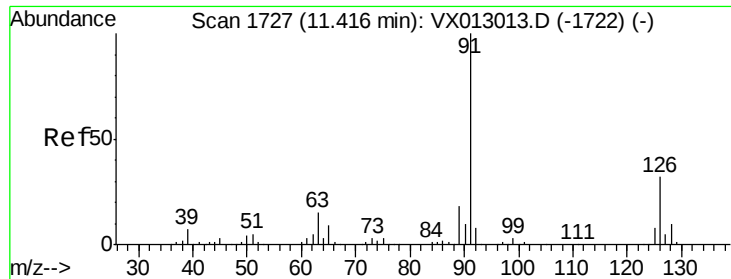
120 23.1 11.7 35.1



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 2.892 ug/l

RT: 11.42 min Scan# 1727

Delta R.T. -0.00 min

Lab File: VX013077.D

Acq: 15 Oct 2019 14:54

Instrument :

MSVOA_X

ClientSampleId :

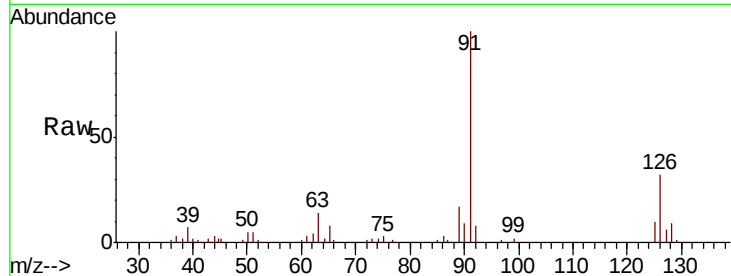
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 91 Resp: 15747

Ion Ratio Lower Upper

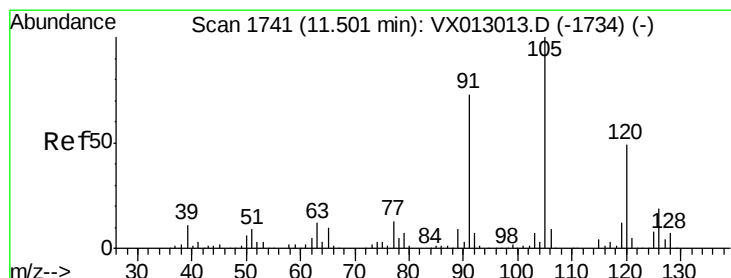
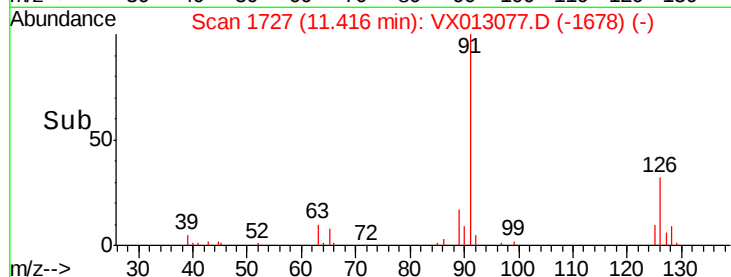
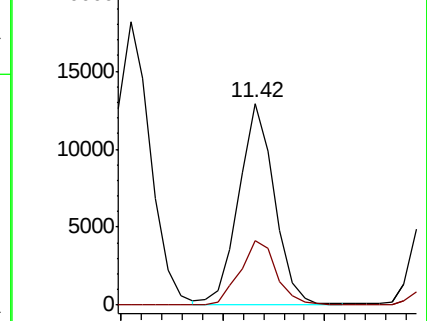
91 100

126 32.3 16.3 48.8



Abundance Ion 91.00 (90.70 to 91.70): VX013013.D (-1722) (-)

Ion 125.90 (125.60 to 126.60): VX013013.D (-1722) (-)



#80

1,3,5-Trimethylbenzene

Concen: 2.759 ug/l

RT: 11.50 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VX013077.D

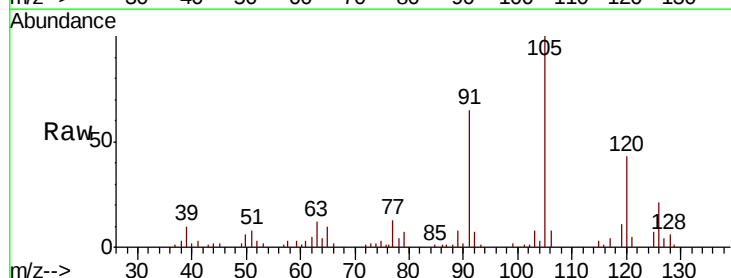
Acq: 15 Oct 2019 14:54

Tgt Ion: 105 Resp: 18140

Ion Ratio Lower Upper

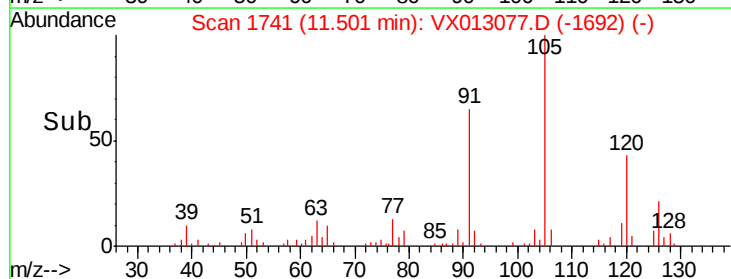
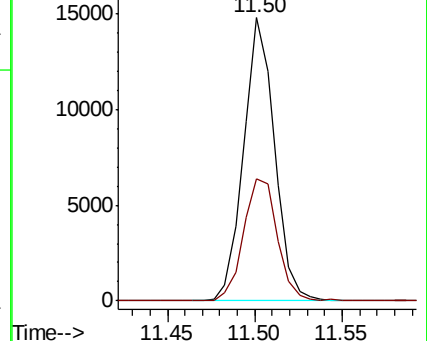
105 100

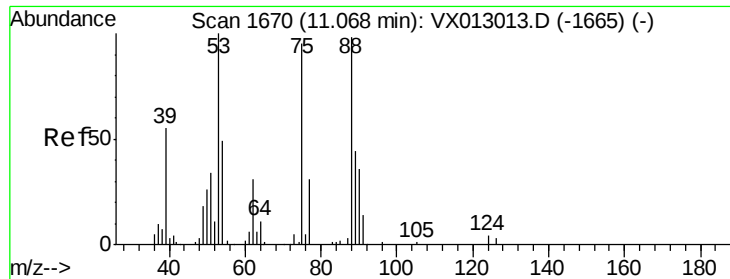
120 47.2 24.8 74.3



Abundance Ion 105.00 (104.70 to 105.70): VX013013.D (-1734) (-)

Ion 120.00 (119.70 to 120.70): VX013013.D (-1734) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 60.280 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013077.D

Acq: 15 Oct 2019 14:54

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

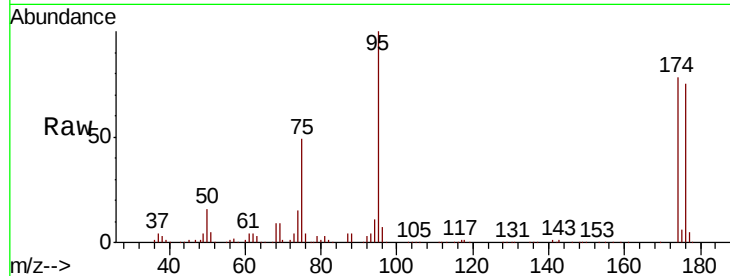
Tot Ion: 75 Resp: 56526

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

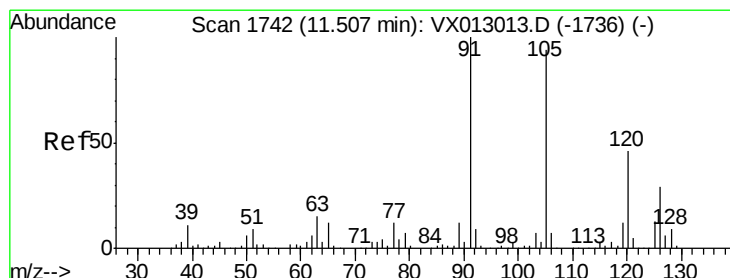
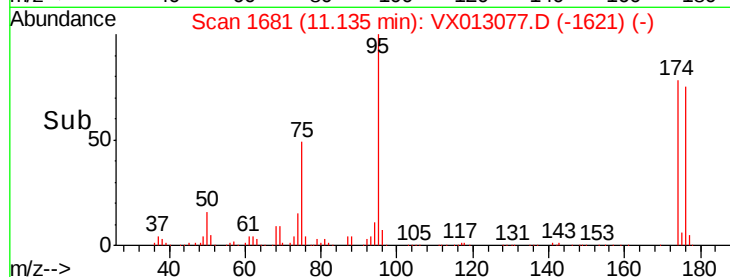
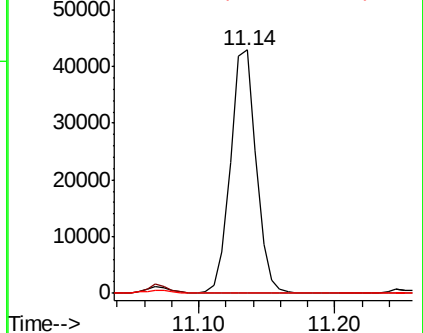
89 0.1 37.4 56.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#82

4-Chlorotoluene

Concen: 2.631 ug/l

RT: 11.51 min Scan# 1742

Delta R.T. -0.00 min

Lab File: VX013077.D

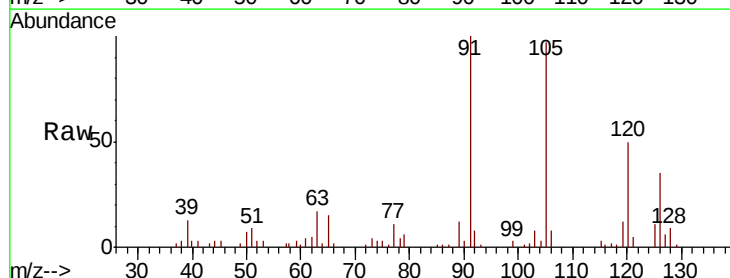
Acq: 15 Oct 2019 14:54

Tgt Ion: 91 Resp: 16420

Ion Ratio Lower Upper

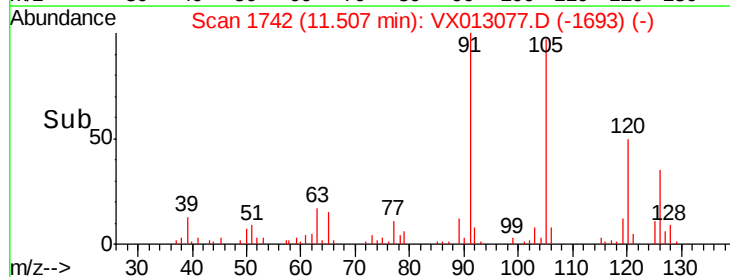
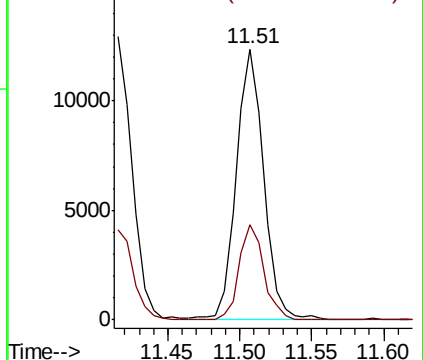
91 100

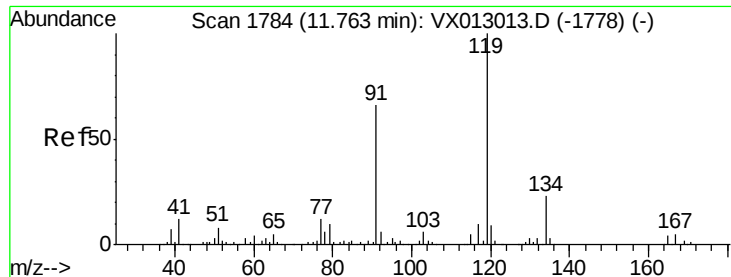
126 31.6 14.2 42.6



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V

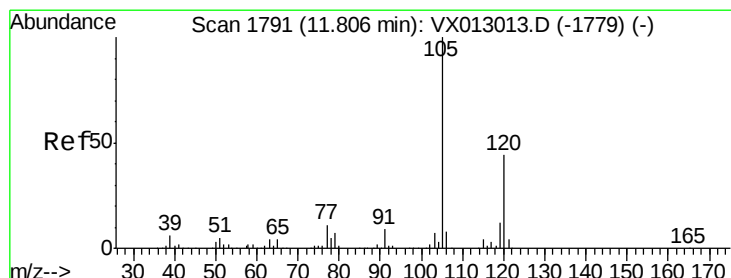
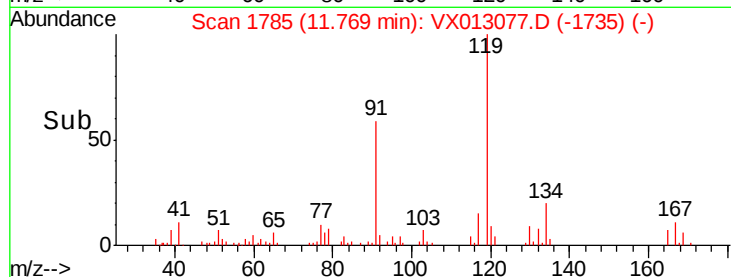
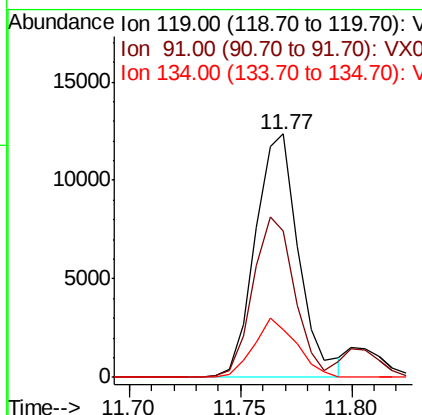
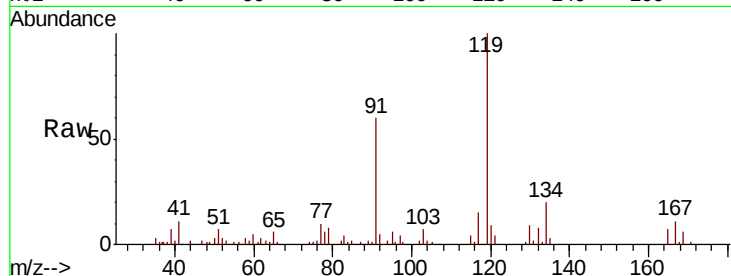




#83
tert-Butylbenzene
Concen: 2.612 ug/l
RT: 11.77 min Scan# 1785
Delta R.T. 0.01 min
Lab File: VX013077.D
Acq: 15 Oct 2019 14:54

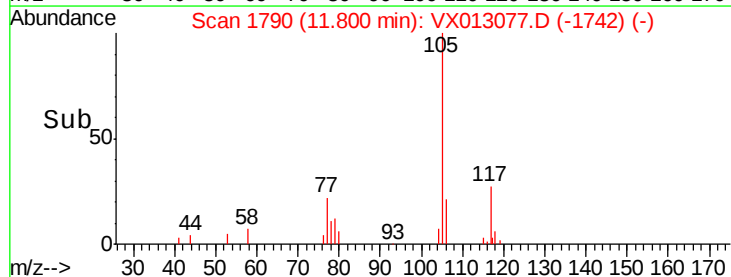
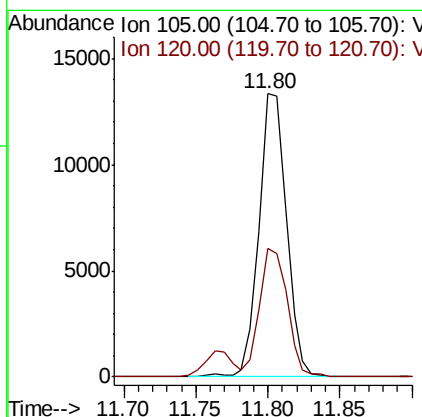
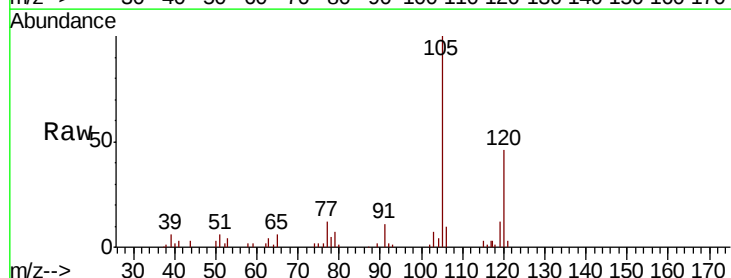
Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

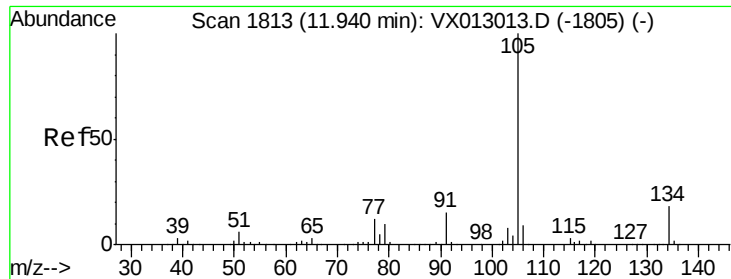
Tot Ion:119 Resp: 16752
Ion Ratio Lower Upper
119 100
91 63.4 29.3 87.9
134 23.8 11.5 34.4



#84
1,2,4-Trimethylbenzene
Concen: 2.654 ug/l
RT: 11.80 min Scan# 1790
Delta R.T. -0.01 min
Lab File: VX013077.D
Acq: 15 Oct 2019 14:54

Tgt Ion:105 Resp: 17674
Ion Ratio Lower Upper
105 100
120 45.8 21.8 65.3





#85

sec-Butylbenzene

Concen: 2.664 ug/l

RT: 11.94 min Scan# 1813

Delta R.T. -0.00 min

Lab File: VX013077.D

Acq: 15 Oct 2019 14:54

Instrument :

MSVOA_X

ClientSampleId :

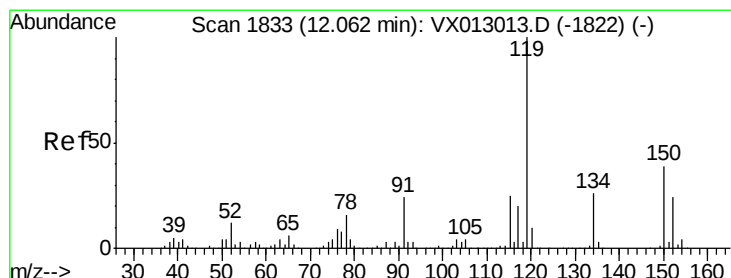
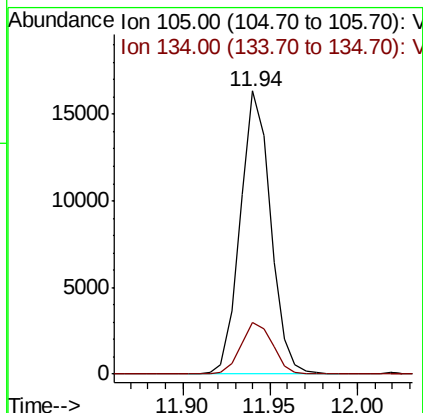
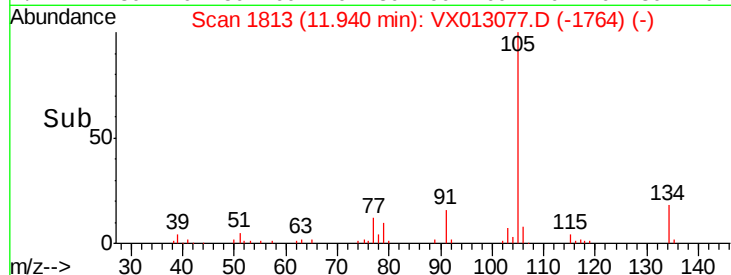
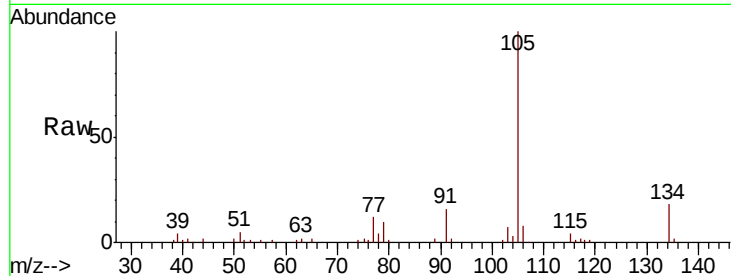
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:105 Resp: 19797

Ion Ratio Lower Upper

105 100

134 19.1 10.0 30.0



#86

p-Isopropyltoluene

Concen: 2.523 ug/l

RT: 12.06 min Scan# 1832

Delta R.T. -0.01 min

Lab File: VX013077.D

Acq: 15 Oct 2019 14:54

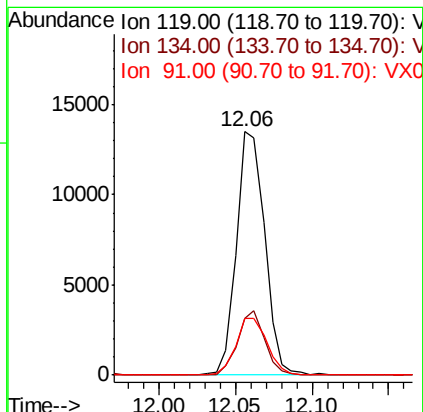
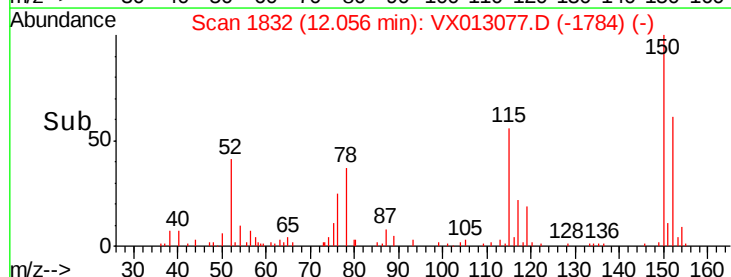
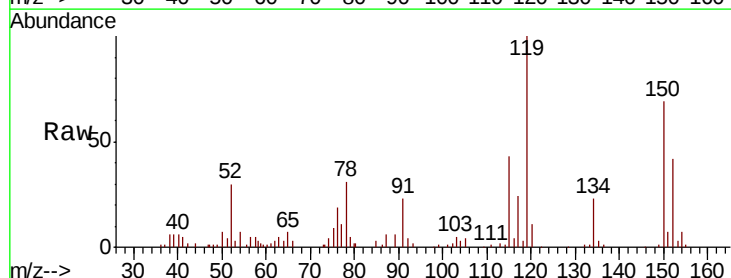
Tgt Ion:119 Resp: 17388

Ion Ratio Lower Upper

119 100

134 25.0 12.6 37.8

91 25.6 12.4 37.4

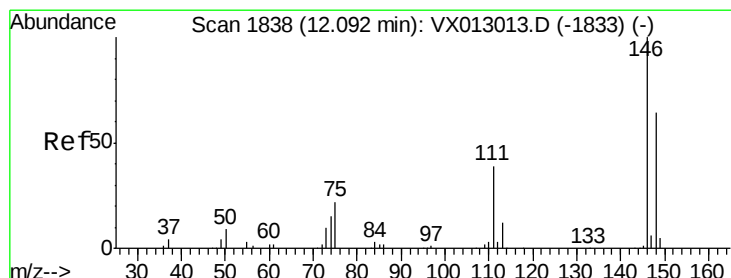
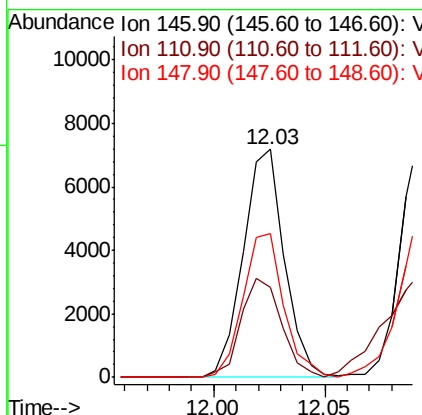
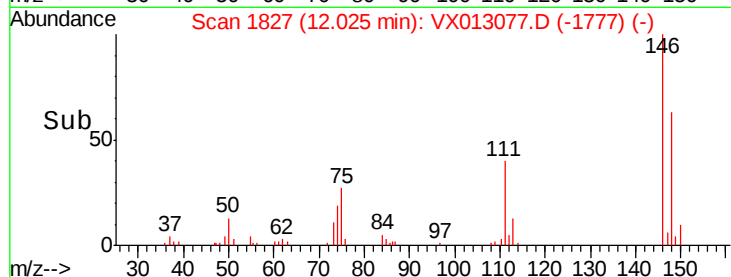
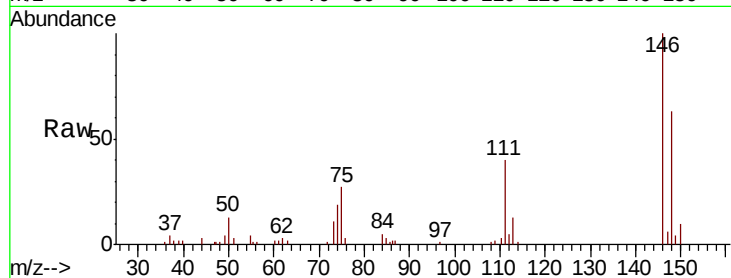




#87
 1,3-Dichlorobenzene
 Concen: 2.695 ug/l
 RT: 12.03 min Scan# 1827
 Delta R.T. 0.01 min
 Lab File: VX013077.D
 Acq: 15 Oct 2019 14:54

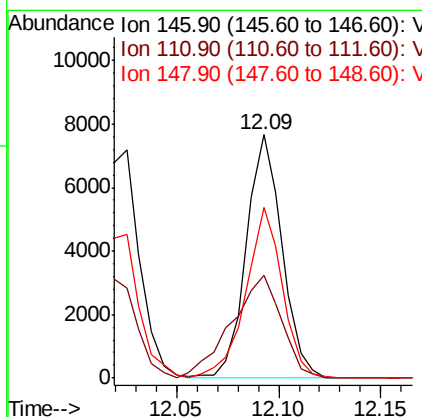
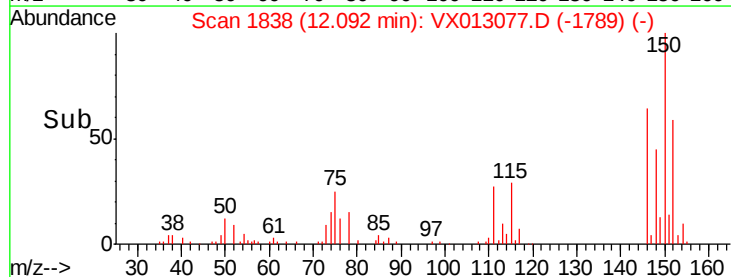
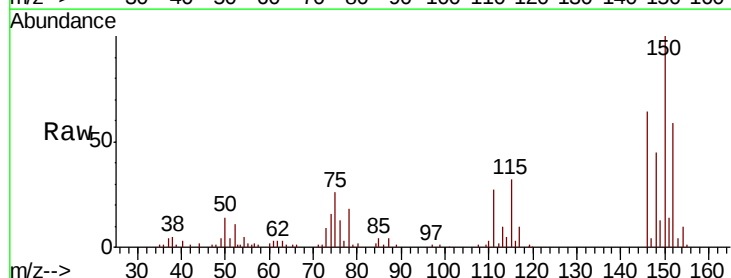
Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

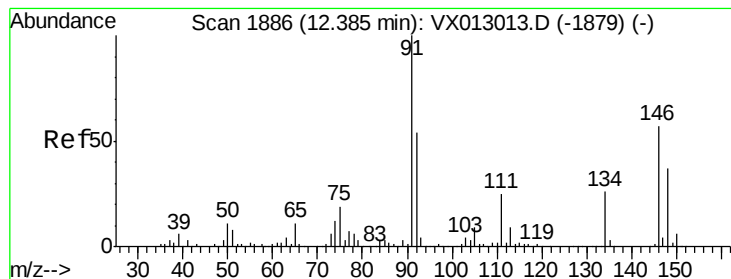
Tot Ion:146 Resp: 9286
 Ion Ratio Lower Upper
 146 100
 111 42.8 21.1 63.4
 148 62.3 31.6 95.0



#88
 1,4-Dichlorobenzene
 Concen: 2.675 ug/l
 RT: 12.09 min Scan# 1838
 Delta R.T. -0.00 min
 Lab File: VX013077.D
 Acq: 15 Oct 2019 14:54

Tgt Ion:146 Resp: 9335
 Ion Ratio Lower Upper
 146 100
 111 59.1 21.4 64.3
 148 72.0 32.1 96.5





#89

n-Butylbenzene

Concen: 2.388 ug/l

RT: 12.39 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX013077.D

Acq: 15 Oct 2019 14:54

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

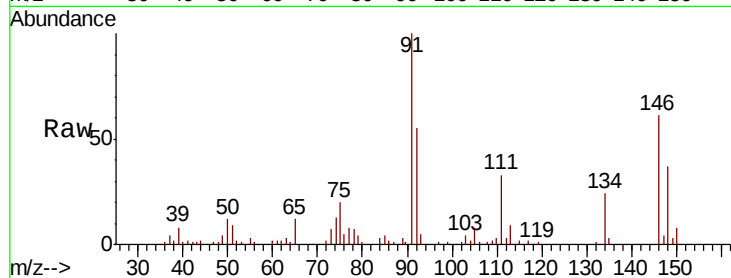
Tot Ion: 91 Resp: 13830

Ion Ratio Lower Upper

91 100

92 53.3 27.5 82.5

134 27.6 12.9 38.7

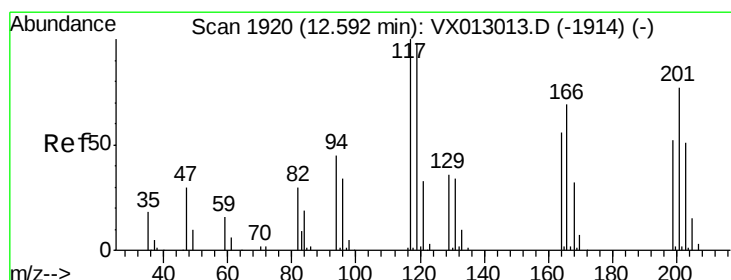
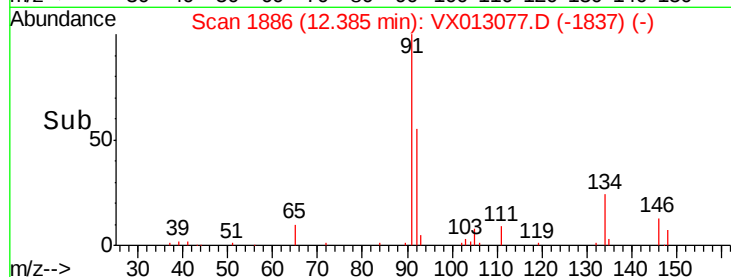


Abundance Ion 91.00 (90.70 to 91.70): VX013013.D (-1879) (-)

Ion 92.00 (91.70 to 92.70): VX013013.D (-1879) (-)

Ion 134.00 (133.70 to 134.70): VX013013.D (-1879) (-)

Time-->



#90

Hexachloroethane

Concen: 4.082 ug/l

RT: 12.59 min Scan# 1919

Delta R.T. -0.01 min

Lab File: VX013077.D

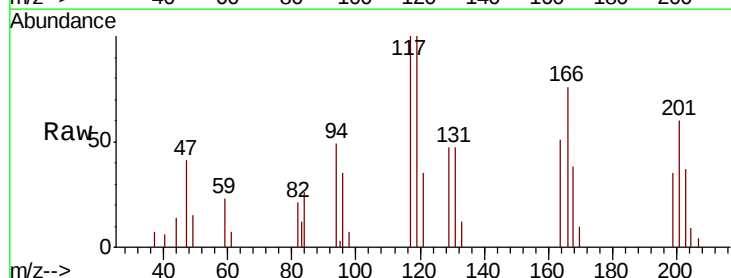
Acq: 15 Oct 2019 14:54

Tgt Ion: 117 Resp: 2617

Ion Ratio Lower Upper

117 100

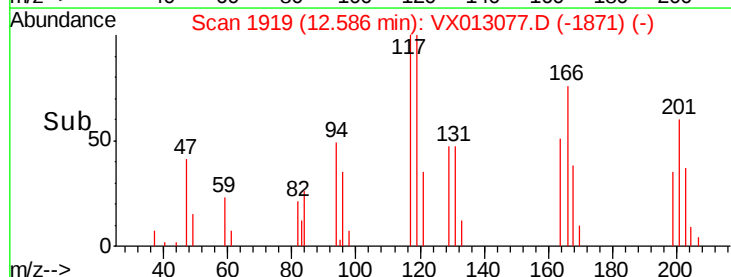
201 72.6 36.9 110.7

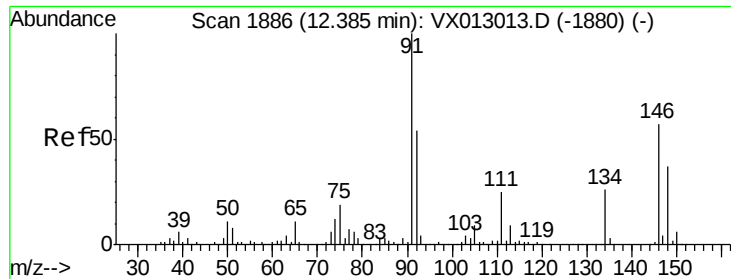


Abundance Ion 116.80 (116.50 to 117.50): VX013013.D (-1914) (-)

Ion 200.70 (200.40 to 201.40): VX013013.D (-1914) (-)

Time-->

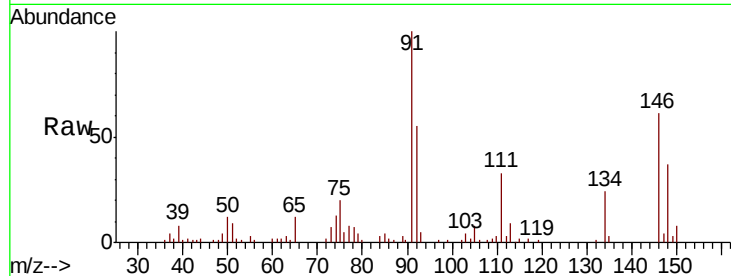




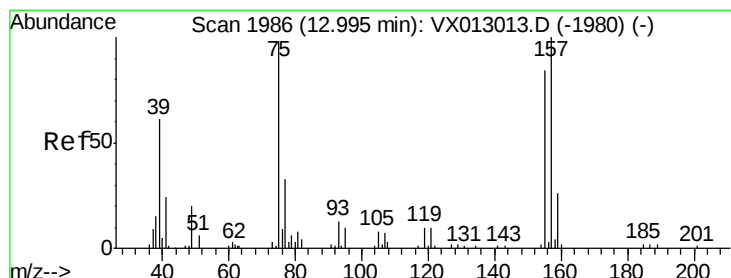
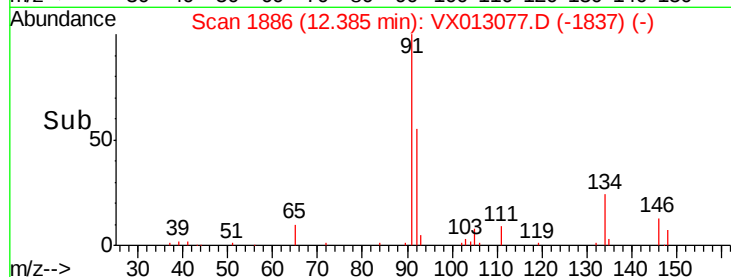
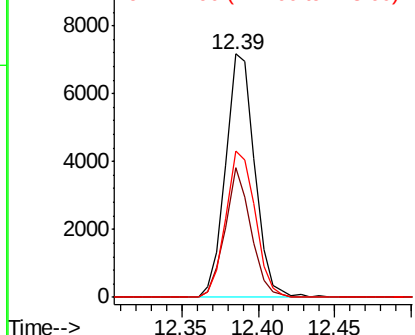
#91
 1,2-Dichlorobenzene
 Concen: 2.809 ug/l
 RT: 12.39 min Scan# 1886
 Delta R.T. -0.00 min
 Lab File: VX013077.D
 Acq: 15 Oct 2019 14:54

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:146 Resp: 9489
 Ion Ratio Lower Upper
 146 100
 111 47.2 22.7 68.0
 148 60.6 31.6 94.7

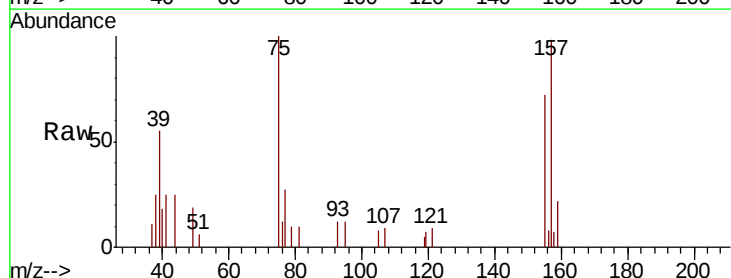


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

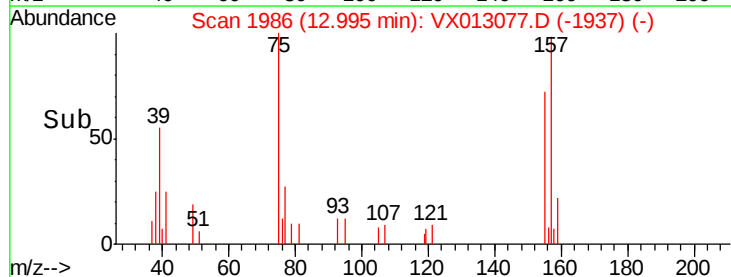
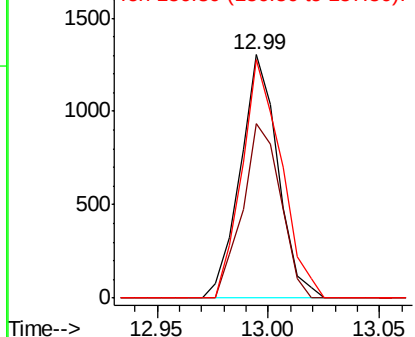


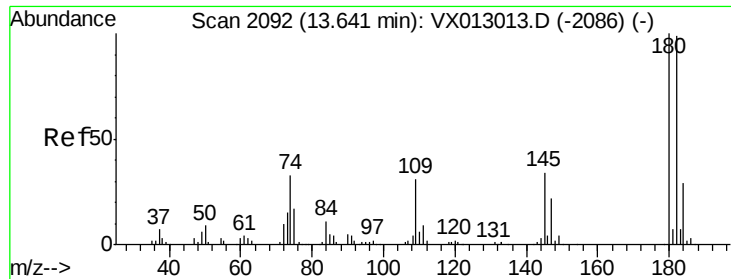
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.501 ug/l
 RT: 12.99 min Scan# 1986
 Delta R.T. -0.00 min
 Lab File: VX013077.D
 Acq: 15 Oct 2019 14:54

Tgt Ion: 75 Resp: 1535
 Ion Ratio Lower Upper
 75 100
 155 72.9 43.0 128.8
 157 103.0 54.1 162.3



Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 154.80 (154.50 to 155.50): V
 Ion 156.80 (156.50 to 157.50): V

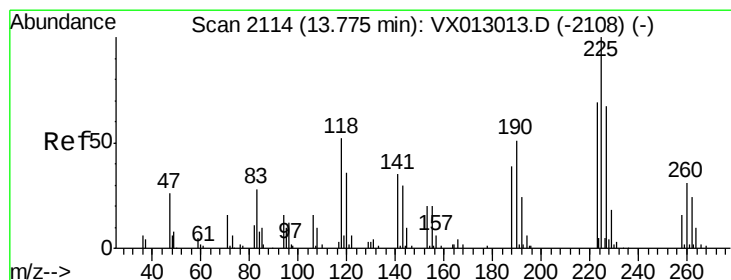
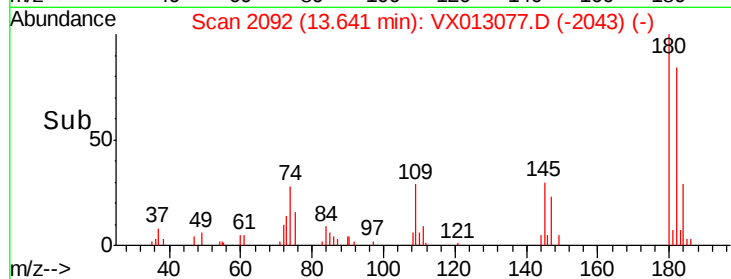
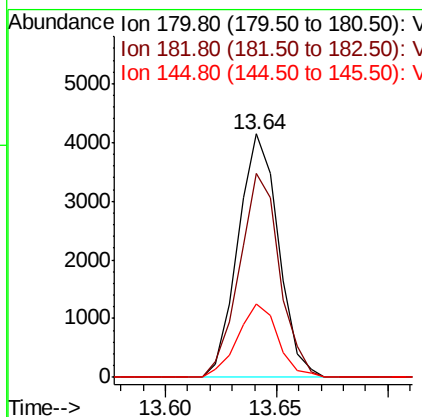
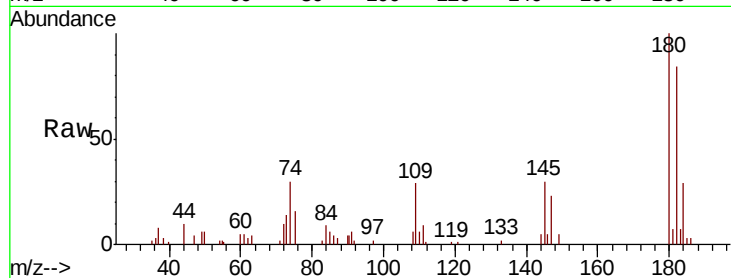




#93
 1,2,4-Trichlorobenzene
 Concen: 2.475 ug/l
 RT: 13.64 min Scan# 2092
 Delta R.T. -0.00 min
 Lab File: VX013077.D
 Acq: 15 Oct 2019 14:54

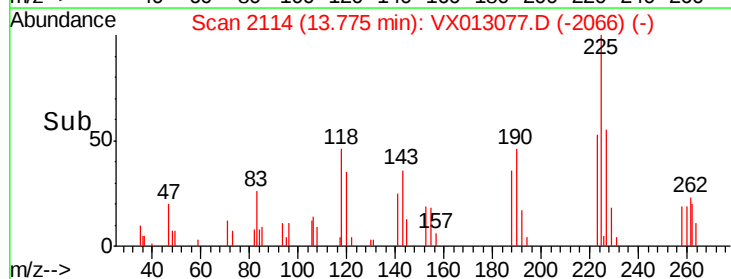
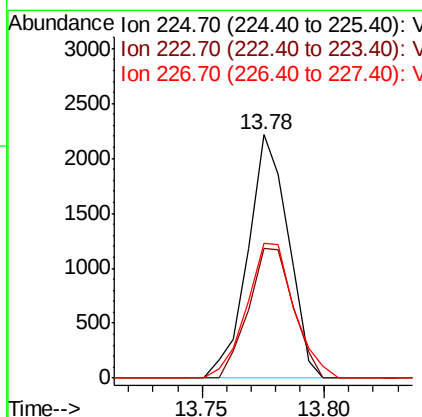
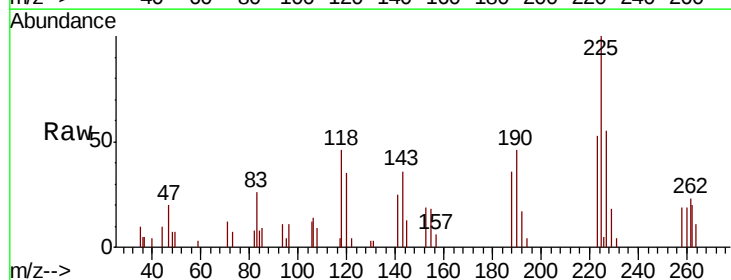
Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

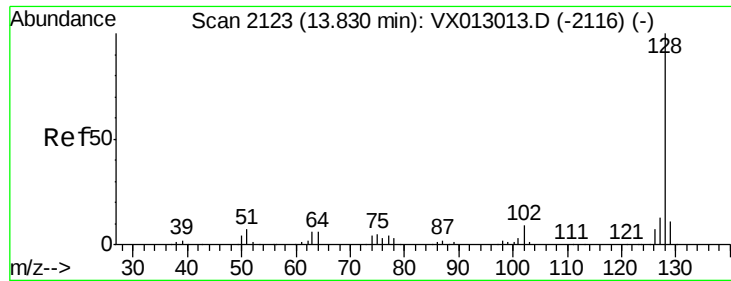
Tot Ion:180 Resp: 5237
 Ion Ratio Lower Upper
 180 100
 182 83.4 46.8 140.4
 145 30.2 16.2 48.6



#94
 Hexachlorobutadiene
 Concen: 2.603 ug/l
 RT: 13.78 min Scan# 2114
 Delta R.T. -0.01 min
 Lab File: VX013077.D
 Acq: 15 Oct 2019 14:54

Tgt Ion:225 Resp: 2542
 Ion Ratio Lower Upper
 225 100
 223 59.0 31.1 93.2
 227 64.7 32.3 96.9





#95

Naphthalene

Concen: 2.216 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. -0.00 min

Lab File: VX013077.D

Acq: 15 Oct 2019 14:54

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

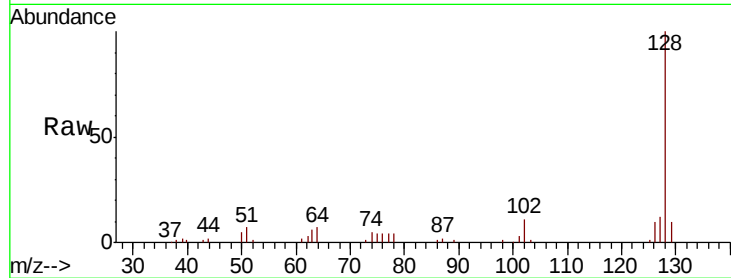
Tot Ion:128 Resp: 16251

Ion Ratio Lower Upper

128 100

127 12.4 10.2 15.4

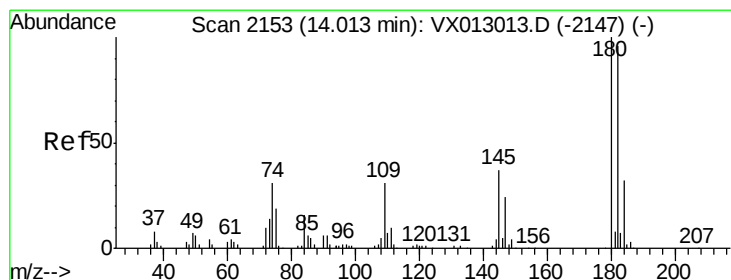
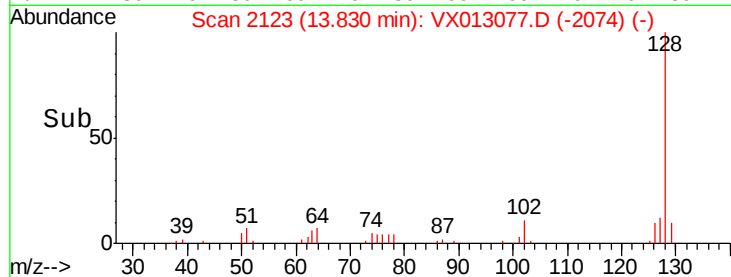
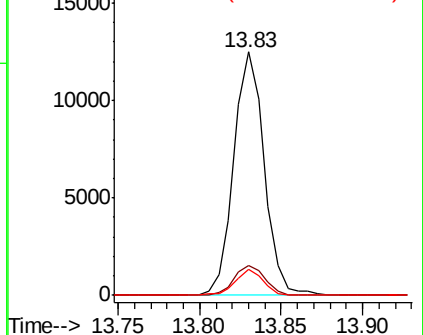
129 9.7 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 2.359 ug/l

RT: 14.02 min Scan# 2154

Delta R.T. 0.01 min

Lab File: VX013077.D

Acq: 15 Oct 2019 14:54

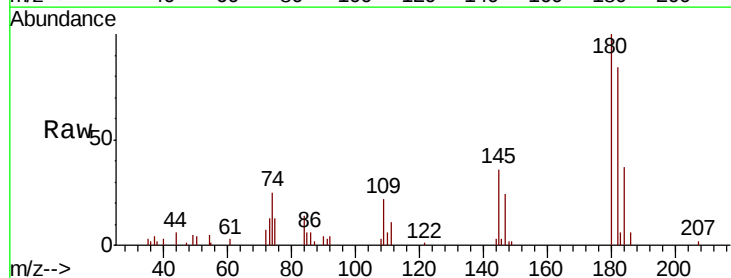
Tgt Ion:180 Resp: 5158

Ion Ratio Lower Upper

180 100

182 93.8 47.5 142.5

145 39.5 17.4 52.3



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

