

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062718\
 Data File : VD059459.D
 Acq On : 27 Jun 2018 22:05
 Operator : VA/AP
 Sample : J3699-03MSD
 Misc : 11.33g/5ml/MSVOA D/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 ZER-SB-04-1-2MSD

Quant Time: Jun 28 03:00:54 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D062518S.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 07:29:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	707935	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	6.70	114	936152	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.69	117	674275	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	261148	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	328125	45.32	ug/l	0.00
Spiked Amount			Recovery	=	90.64%	
35) Dibromofluoromethane	5.55	113	338253	44.36	ug/l	0.00
Spiked Amount			Recovery	=	88.72%	
50) Toluene-d8	8.71	98	741761	41.61	ug/l	0.00
Spiked Amount			Recovery	=	83.22%	
62) 4-Bromofluorobenzene	11.93	95	275193	37.11	ug/l	0.00
Spiked Amount			Recovery	=	74.22%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.34	85	324837	51.57	ug/l	98
3) Chloromethane	1.48	50	153747	46.91	ug/l	90
4) Vinyl Chloride	1.56	62	156378	45.99	ug/l	# 87
5) Bromomethane	1.79	94	80030	69.87	ug/l	92
6) Chloroethane	1.88	64	90920	68.17	ug/l	98
7) Trichlorofluoromethane	2.09	101	305028	62.21	ug/l	99
8) Diethyl Ether	2.34	74	58599	52.82	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	2.56	101	175502	57.60	ug/l	99
10) Methyl Iodide	2.70	142	175586	49.34	ug/l	98
11) Tert butyl alcohol	3.26	59	61196	244.34	ug/l	99
12) 1,1-Dichloroethene	2.55	96	131007	56.16	ug/l	82
13) Acrolein	2.47	56	2953	13.19	ug/l	# 40
14) Allyl chloride	2.92	41	239664	44.89	ug/l	99
15) Acrylonitrile	3.38	53	210216	273.48	ug/l	98
16) Acetone	2.61	43	308757	337.92	ug/l	96
17) Carbon Disulfide	2.76	76	283907	39.74	ug/l	96
18) Methyl Acetate	2.93	43	145712	72.98	ug/l	94
19) Methyl tert-butyl Ether	3.41	73	654300	56.99	ug/l	97
20) Methylene Chloride	3.07	84	148637	59.11	ug/l	95
21) trans-1,2-Dichloroethene	3.39	96	211972	51.39	ug/l	98
22) Diisopropyl ether	4.08	45	1187094	59.09	ug/l	# 77
23) Vinyl Acetate	4.08	43	593114	56.67	ug/l	# 81
24) 1,1-Dichloroethane	3.98	63	665837	57.92	ug/l	98
25) 2-Butanone	4.83	43	535172	279.60	ug/l	98
26) 2,2-Dichloropropane	4.81	77	518855	58.20	ug/l	98
27) cis-1,2-Dichloroethene	4.81	96	333726	48.15	ug/l	98
28) Bromochloromethane	5.15	49	266966	53.57	ug/l	99
29) Tetrahydrofuran	5.19	42	257243	245.71	ug/l	96
30) Chloroform	5.33	83	684876	54.66	ug/l	96
31) Cyclohexane	5.59	56	355305	46.57	ug/l	97
32) 1,1,1-Trichloroethane	5.51	97	539956	53.22	ug/l	94
36) 1,1-Dichloropropene	5.75	75	422331	49.73	ug/l	95
37) Ethyl Acetate	4.92	43	214654	41.51	ug/l	99
38) Carbon Tetrachloride	5.73	117	422136	48.21	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.29	83	239917	29.79	ug/l	96
40) Benzene	6.02	78	1127385	55.32	ug/l	100
41) Methacrylonitrile	5.13	41	132157	53.05	ug/l	97
42) 1,2-Dichloroethane	6.13	62	452967	50.30	ug/l	97
43) Isopropyl Acetate	7.62	43	246504	37.95	ug/l #	99
44) Trichloroethene	6.98	130	372819	55.87	ug/l	99
45) 1,2-Dichloropropane	7.35	63	307893	54.55	ug/l	99
46) Dibromomethane	7.46	93	200410	49.37	ug/l	96
47) Bromodichloromethane	7.75	83	495244	54.53	ug/l #	96
48) Methyl methacrylate	7.50	41	195379	49.38	ug/l	97
49) 1,4-Dioxane	7.49	88	40497	1020.50	ug/l	94
51) 4-Methyl-2-Pentanone	8.61	43	1110066	256.49	ug/l	97
52) Toluene	8.80	92	528280	43.40	ug/l	99
53) t-1,3-Dichloropropene	9.19	75	355523	46.84	ug/l	99
54) cis-1,3-Dichloropropene	8.37	75	434734	49.47	ug/l	97
55) 1,1,2-Trichloroethane	9.46	97	220798	49.97	ug/l	96
56) Ethyl methacrylate	9.31	69	237467	47.09	ug/l	96
57) 1,3-Dichloropropane	9.67	76	382139	52.88	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.19	63	651193	250.87	ug/l	95
59) 2-Hexanone	9.79	43	820017	266.59	ug/l	99
60) Dibromochloromethane	9.96	129	311776	50.38	ug/l	94
61) 1,2-Dibromoethane	10.10	107	232391	47.23	ug/l	99
64) Tetrachloroethene	9.52	164	443966	75.06	ug/l	97
65) Chlorobenzene	10.72	112	603382	48.94	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.85	131	269176	56.88	ug/l	97
67) Ethyl Benzene	10.86	91	1061938	51.04	ug/l	97
68) m/p-Xylenes	11.02	106	667905	96.76	ug/l	98
69) o-Xylene	11.41	106	344715	50.51	ug/l	99
70) Styrene	11.43	104	550582	47.07	ug/l	95
71) Bromoform	11.60	173	211516	53.95	ug/l #	96
73) Isopropylbenzene	11.78	105	856740	58.14	ug/l	96
74) N-amyl acetate	11.65	43	259238	46.24	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.08	83	190157	55.00	ug/l	94
76) 1,2,3-Trichloropropane	12.11	75	264239	73.36	ug/l	97
77) Bromobenzene	12.04	156	278552	60.05	ug/l	98
78) n-propylbenzene	12.16	91	1015353	54.40	ug/l	99
79) 2-Chlorotoluene	12.22	91	647040	59.03	ug/l	97
80) 1,3,5-Trimethylbenzene	12.32	105	628669	53.59	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.84	75	56971	69.58	ug/l	93
82) 4-Chlorotoluene	12.33	91	682248	54.89	ug/l	96
83) tert-Butylbenzene	12.57	119	490651	39.32	ug/l	90
84) 1,2,4-Trimethylbenzene	12.62	105	681632	54.90	ug/l	92
85) sec-Butylbenzene	12.76	105	651707	42.56	ug/l	96
86) p-Isopropyltoluene	12.89	119	543572	44.04	ug/l	98
87) 1,3-Dichlorobenzene	12.84	146	384792	50.43	ug/l	95
88) 1,4-Dichlorobenzene	12.93	146	354028	47.01	ug/l	97
89) n-Butylbenzene	13.19	91	448633	36.82	ug/l	97
90) Hexachloroethane	13.40	117	131857	42.82	ug/l	97
91) 1,2-Dichlorobenzene	13.19	146	346907	53.62	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.77	75	39180	68.72	ug/l	82

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QLast Update : Mon Jun 25 07:29:35 2018
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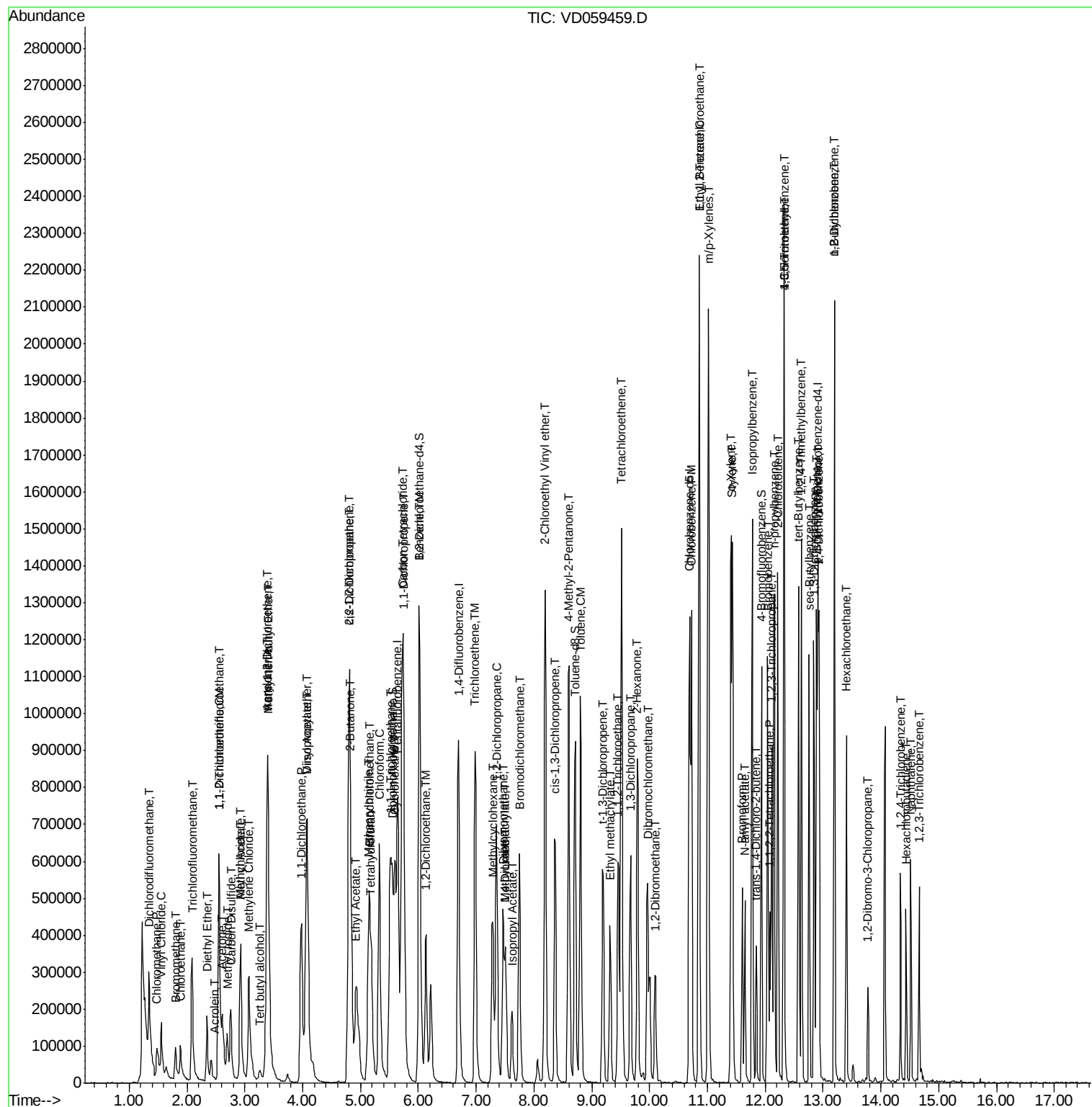
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.34	180	154527	25.83	ug/l	94
94) Hexachlorobutadiene	14.43	225	75139	16.69	ug/l	95
95) Naphthalene	14.51	128	340962	40.90	ug/l	99
96) 1,2,3-Trichlorobenzene	14.66	180	127537	23.71	ug/l	99

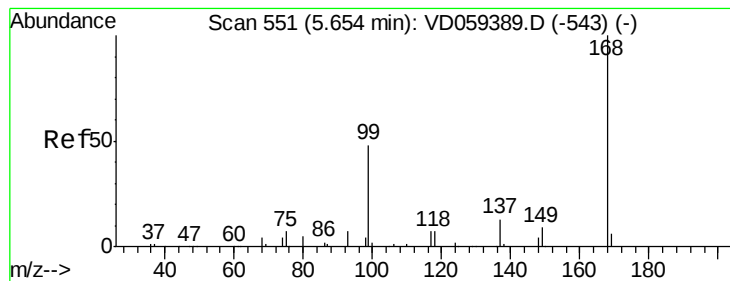
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.01 min

Lab File: VD059459.D

Acq: 27 Jun 2018 22:05

Instrument :

MSVOA_D

ClientSampleId :

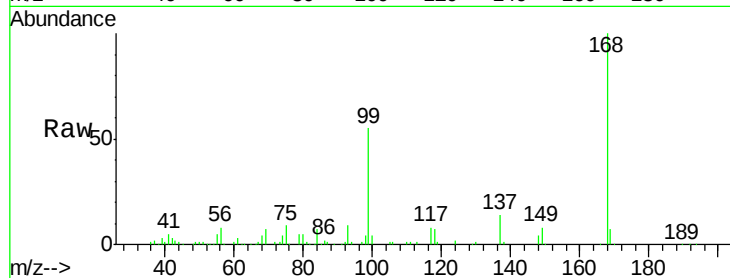
ZER-SB-04-1-2MSD

Tot Ion:168 Resp: 707935

Ion Ratio Lower Upper

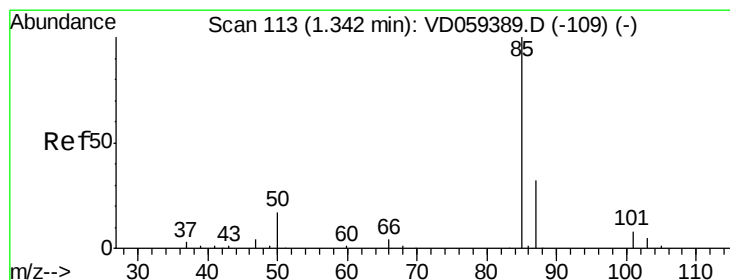
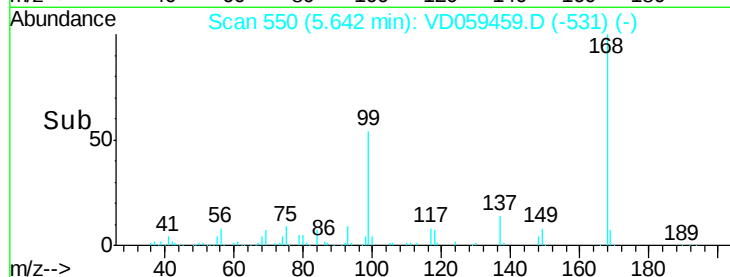
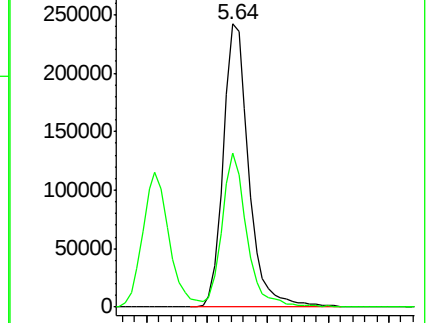
168 100

99 54.5 41.0 61.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 51.57 ug/l

RT: 1.34 min Scan# 113

Delta R.T. -0.00 min

Lab File: VD059459.D

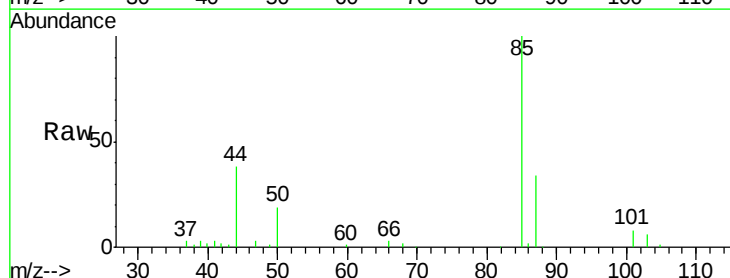
Acq: 27 Jun 2018 22:05

Tgt Ion: 85 Resp: 324837

Ion Ratio Lower Upper

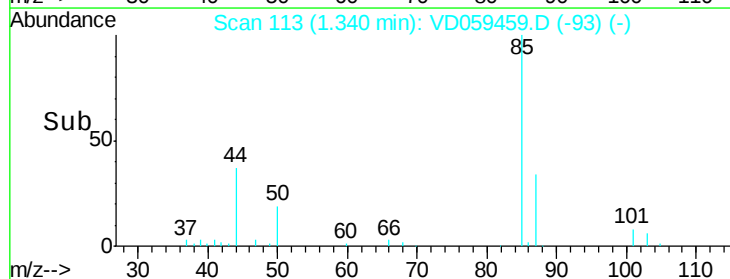
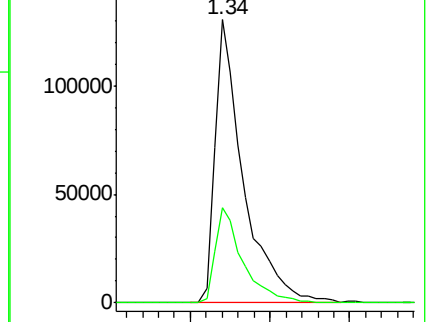
85 100

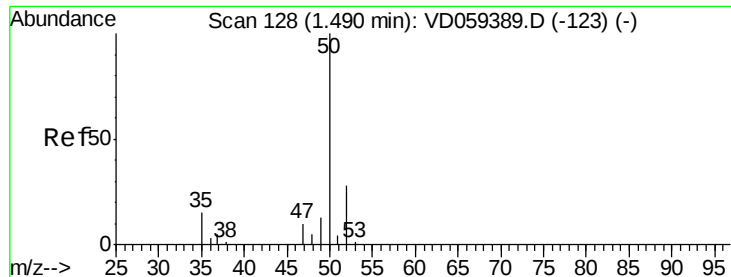
87 33.6 16.2 48.6



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 46.91 ug/l

RT: 1.48 min Scan# 127

Delta R.T. -0.01 min

Lab File: VD059459.D

Acq: 27 Jun 2018 22:05

Instrument :

MSVOA_D

ClientSampleId :

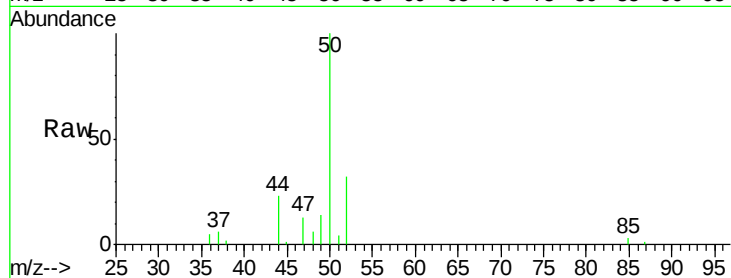
ZER-SB-04-1-2MSD

Tot Ion: 50 Resp: 153747

Ion Ratio Lower Upper

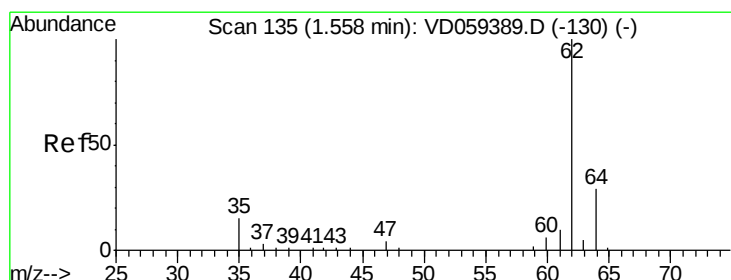
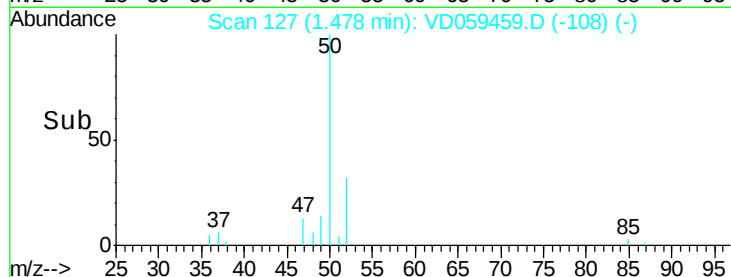
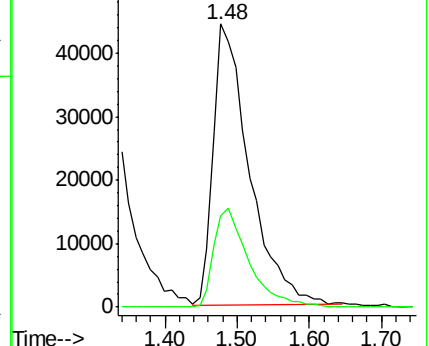
50 100

52 32.4 21.8 32.8



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 45.99 ug/l

RT: 1.56 min Scan# 135

Delta R.T. -0.00 min

Lab File: VD059459.D

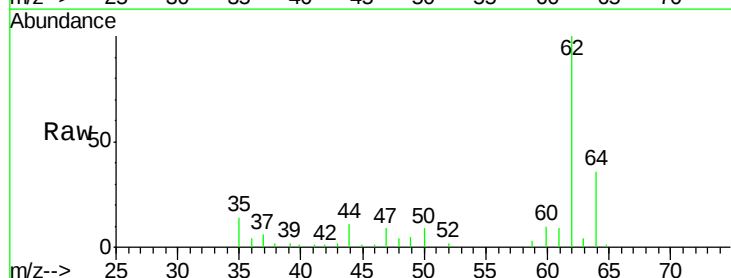
Acq: 27 Jun 2018 22:05

Tgt Ion: 62 Resp: 156378

Ion Ratio Lower Upper

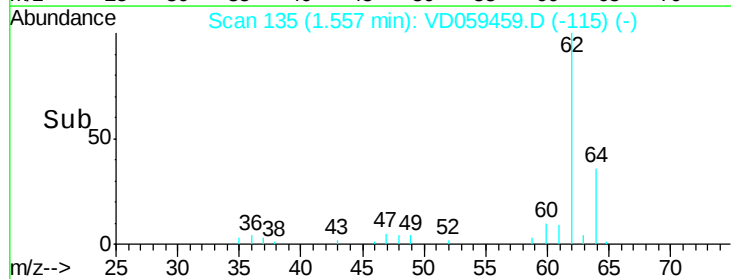
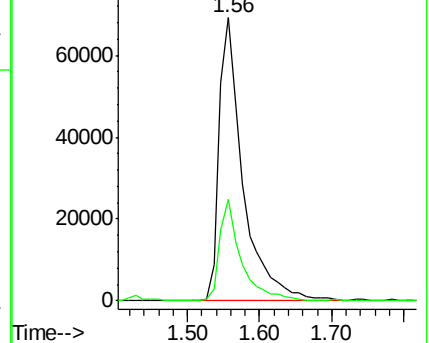
62 100

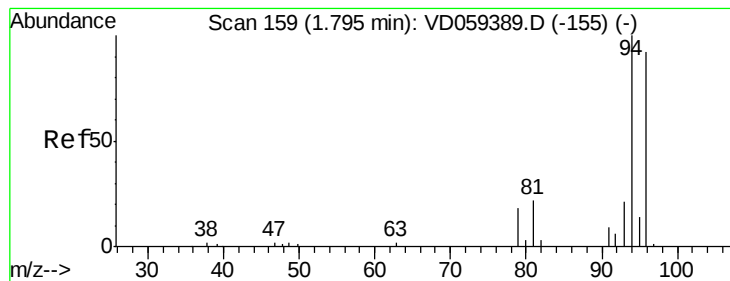
64 35.7 23.0 34.6#



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 69.87 ug/l

RT: 1.79 min Scan# 159

Delta R.T. -0.00 min

Lab File: VD059459.D

Acq: 27 Jun 2018 22:05

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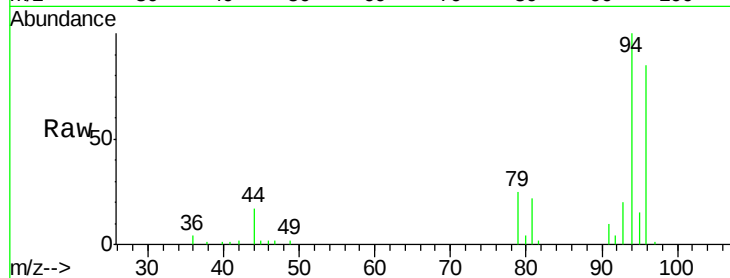
ZER-SB-04-1-2MSD

Tot Ion: 94 Resp: 80030

Ion Ratio Lower Upper

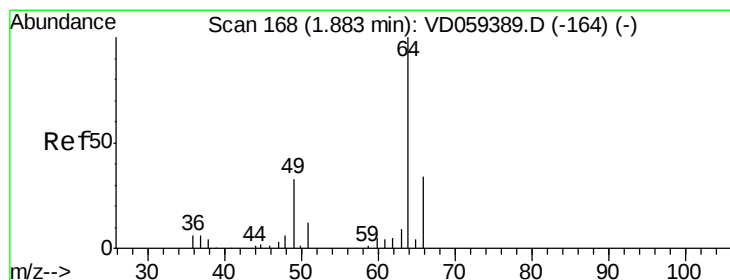
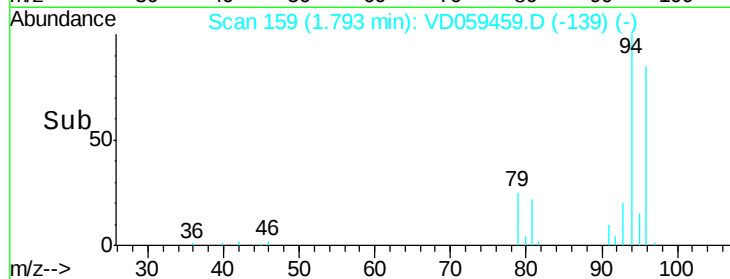
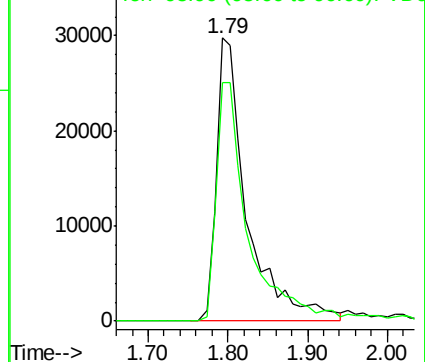
94 100

96 84.5 73.4 110.0



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 68.17 ug/l

RT: 1.88 min Scan# 168

Delta R.T. -0.00 min

Lab File: VD059459.D

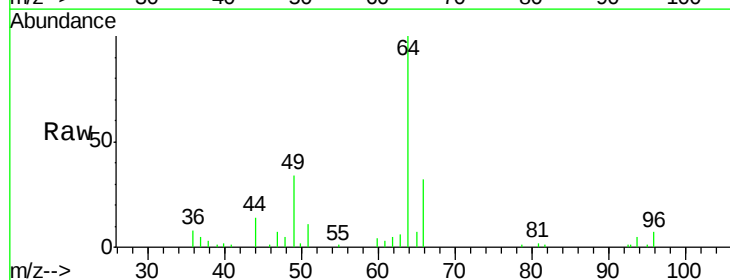
Acq: 27 Jun 2018 22:05

Tgt Ion: 64 Resp: 90920

Ion Ratio Lower Upper

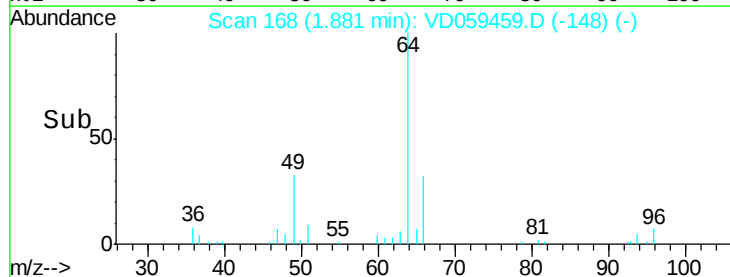
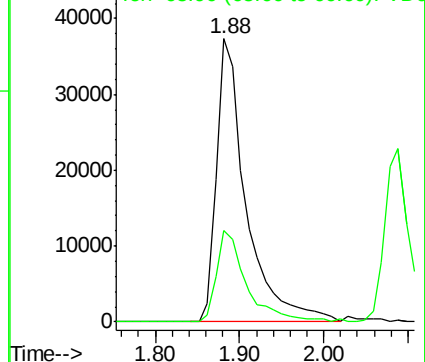
64 100

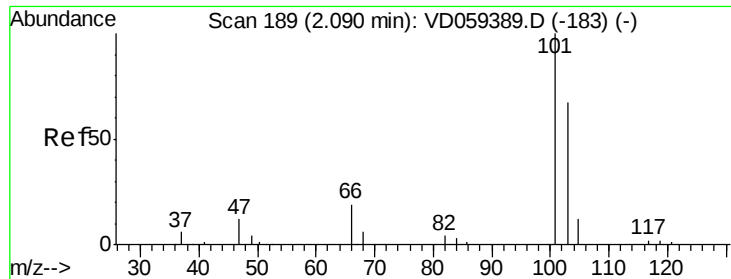
66 32.5 27.1 40.7



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



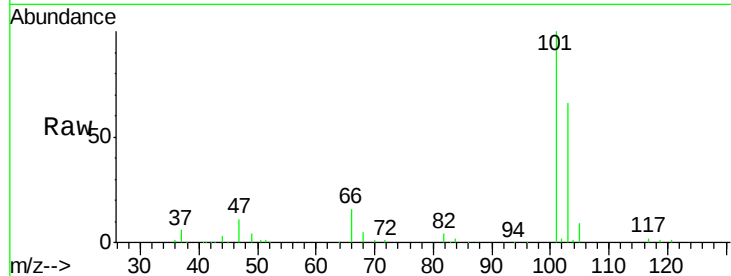


#7

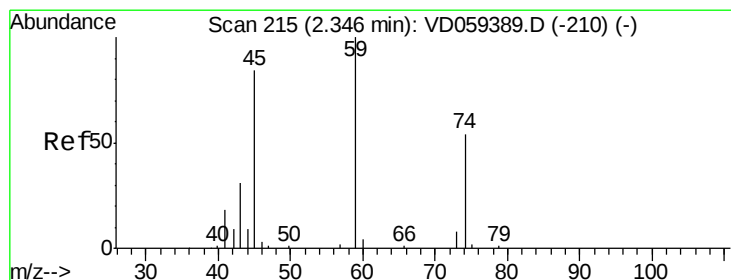
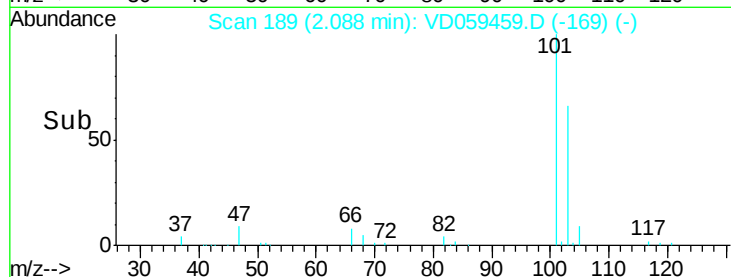
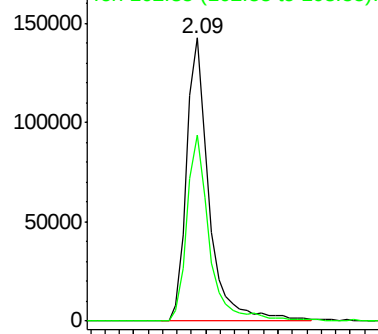
Trichlorofluoromethane
 Concen: 62.21 ug/l
 RT: 2.09 min Scan# 189
 Delta R.T. -0.00 min
 Lab File: VD059459.D
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Tot Ion:101 Resp: 305028
 Ion Ratio Lower Upper
 101 100
 103 65.7 53.4 80.0



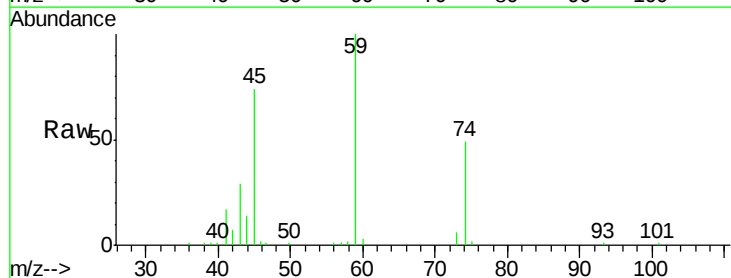
Abundance Ion 100.85 (100.55 to 101.55): V
 Ion 102.85 (102.55 to 103.55): V



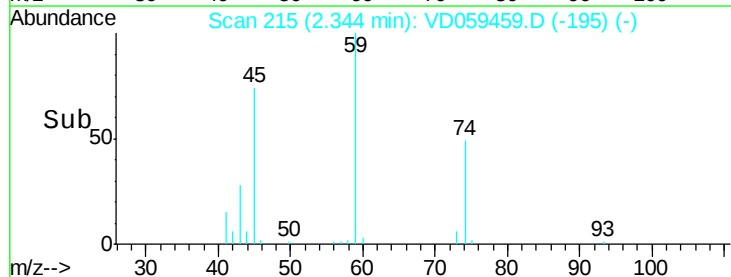
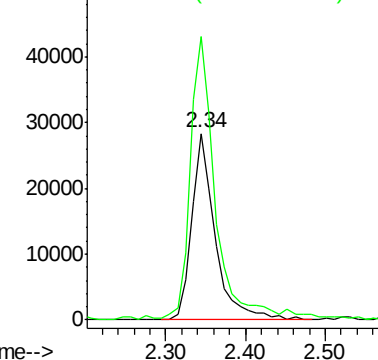
#8

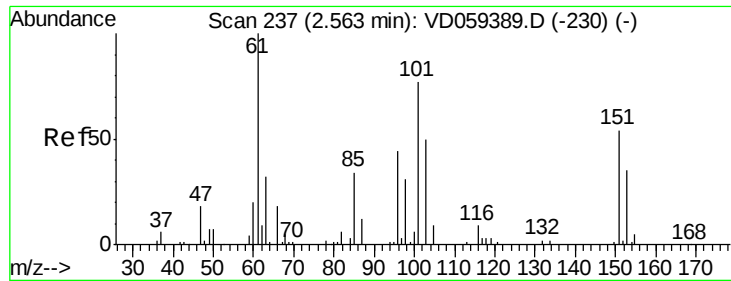
Diethyl Ether
 Concen: 52.82 ug/l
 RT: 2.34 min Scan# 215
 Delta R.T. -0.00 min
 Lab File: VD059459.D
 Acq: 27 Jun 2018 22:05

Tgt Ion: 74 Resp: 58599
 Ion Ratio Lower Upper
 74 100
 45 151.6 78.0 233.8



Abundance Ion 74.00 (73.70 to 74.70): VDC
 Ion 45.05 (44.75 to 45.75): VDC





#9

1,1,2-Trichlorotrifluoroethane

Concen: 57.60 ug/l

RT: 2.56 min Scan# 237

Delta R.T. -0.00 min

Lab File: VD059459.D

Acq: 27 Jun 2018 22:05

Instrument :

MSVOA_D

ClientSampleId :

ZER-SB-04-1-2MSD

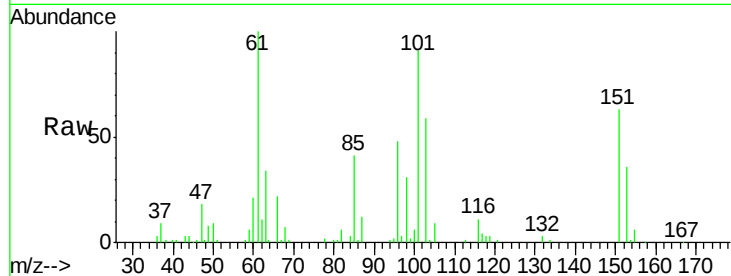
Tot Ion:101 Resp: 175502

Ion Ratio Lower Upper

101 100

85 45.7 35.7 53.5

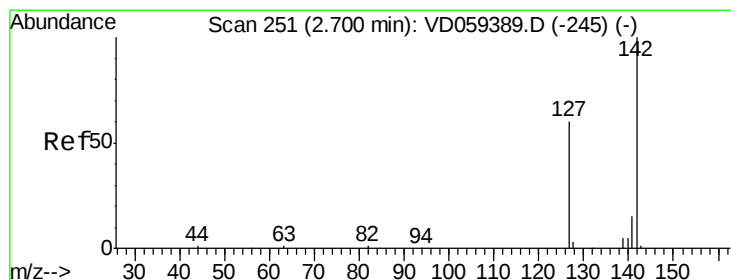
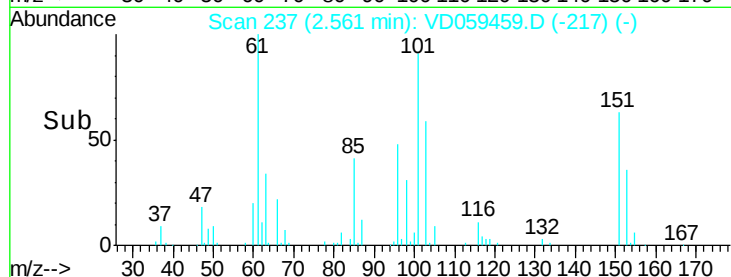
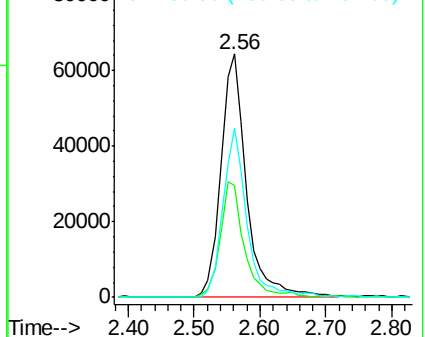
151 69.5 55.8 83.8



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 49.34 ug/l

RT: 2.70 min Scan# 251

Delta R.T. -0.00 min

Lab File: VD059459.D

Acq: 27 Jun 2018 22:05

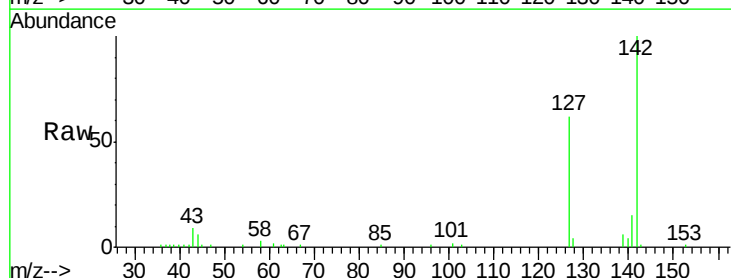
Tgt Ion:142 Resp: 175586

Ion Ratio Lower Upper

142 100

127 62.3 48.4 72.6

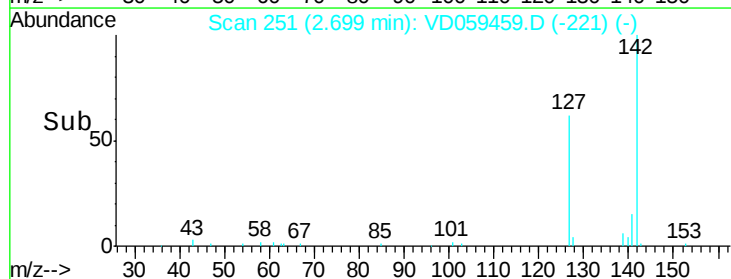
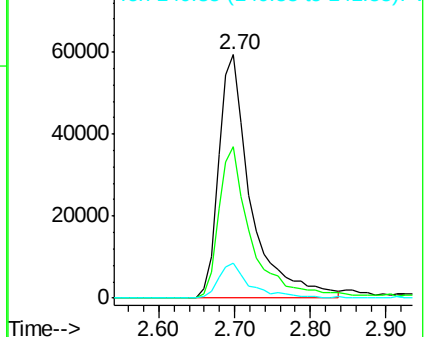
141 14.6 12.1 18.1

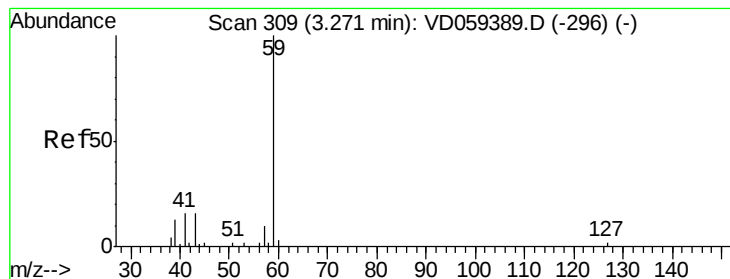


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



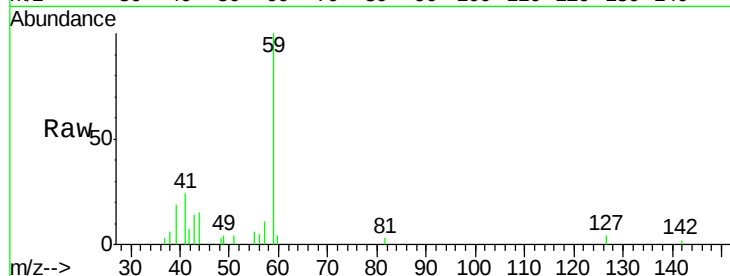


#11

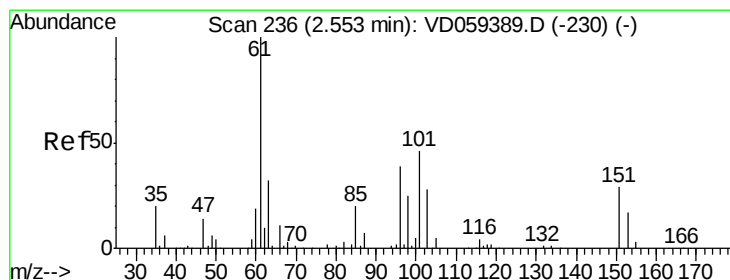
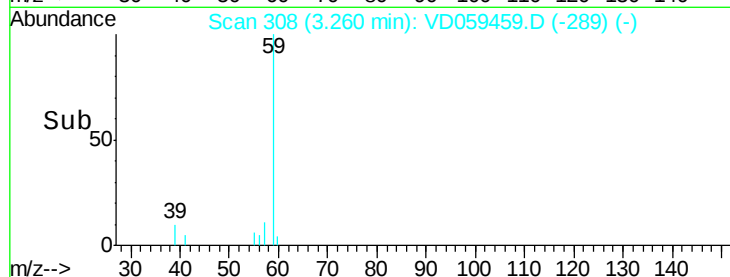
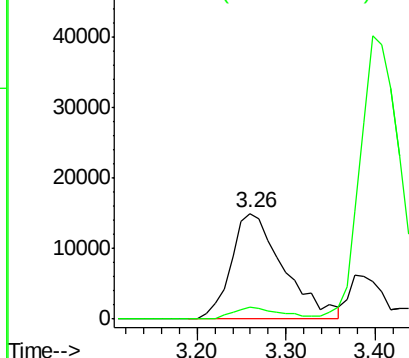
Tert butyl alcohol
 Concen: 244.34 ug/l
 RT: 3.26 min Scan# 308
 Delta R.T. -0.01 min
 Lab File: VD059459.D
 Acq: 27 Jun 2018 22:05

Instrument :
 MSVOA_D
 ClientSampleId :
 ZER-SB-04-1-2MSD

Tot Ion: 59 Resp: 61196
 Ion Ratio Lower Upper
 59 100
 57 10.8 8.3 12.5



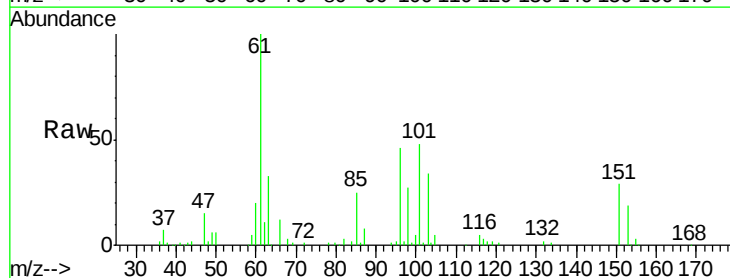
Abundance Ion 58.95 (58.65 to 59.65): VDC
 Ion 56.95 (56.65 to 57.65): VDC



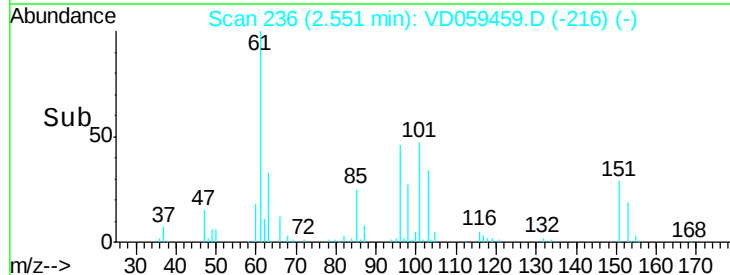
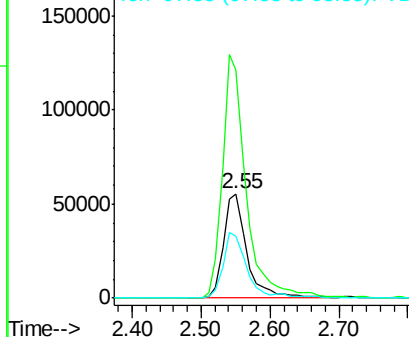
#12

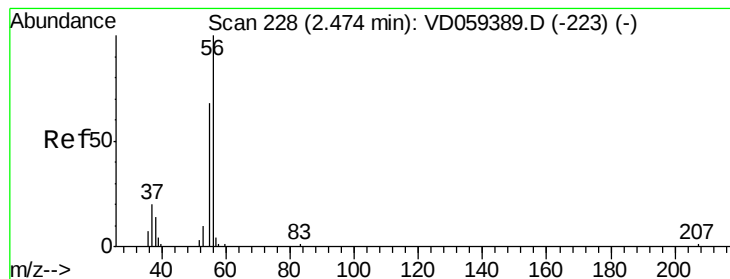
1,1-Dichloroethene
 Concen: 56.16 ug/l
 RT: 2.55 min Scan# 236
 Delta R.T. -0.00 min
 Lab File: VD059459.D
 Acq: 27 Jun 2018 22:05

Tgt Ion: 96 Resp: 131007
 Ion Ratio Lower Upper
 96 100
 61 219.2 205.4 308.0
 98 59.6 51.0 76.4



Abundance Ion 95.90 (95.60 to 96.60): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 97.85 (97.55 to 98.55): VDC





#13

Acrolein

Concen: 13.19 ug/l

RT: 2.47 min Scan# 228

Delta R.T. -0.00 min

Lab File: VD059459.D

Acq: 27 Jun 2018 22:05

Instrument :

MSVOA_D

ClientSampleId :

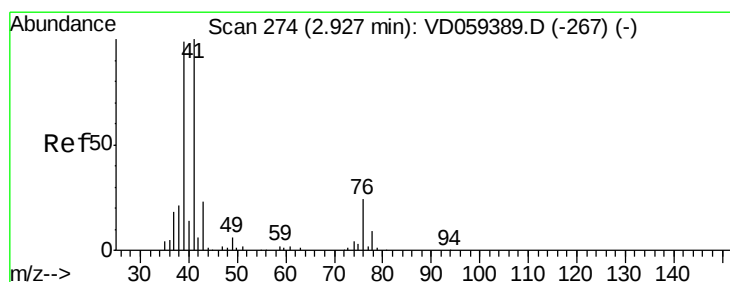
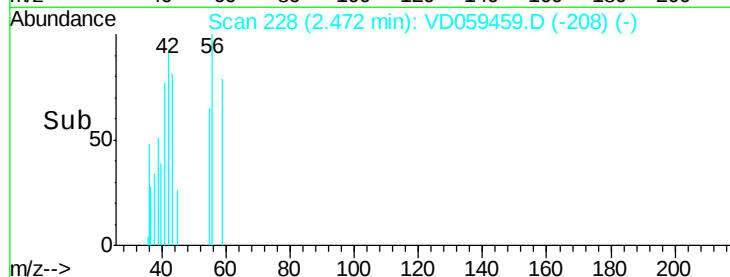
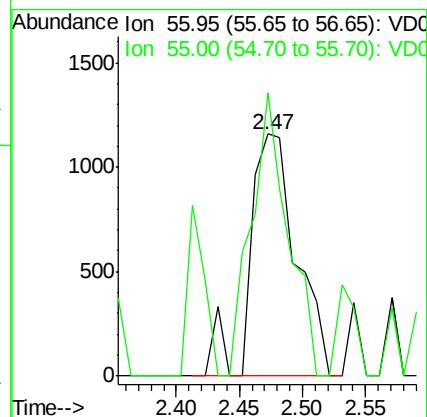
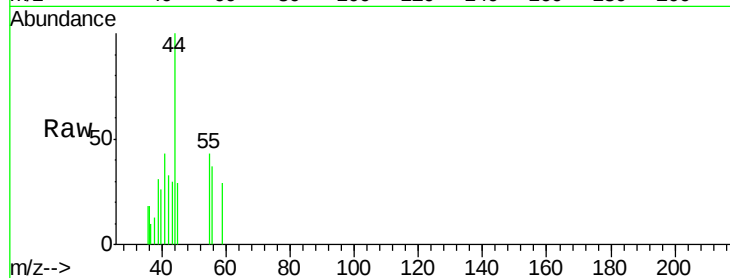
ZER-SB-04-1-2MSD

Tot Ion: 56 Resp: 2953

Ion Ratio Lower Upper

56 100

55 116.9 54.6 82.0#



#14

Allyl chloride

Concen: 44.89 ug/l

RT: 2.92 min Scan# 274

Delta R.T. -0.00 min

Lab File: VD059459.D

Acq: 27 Jun 2018 22:05

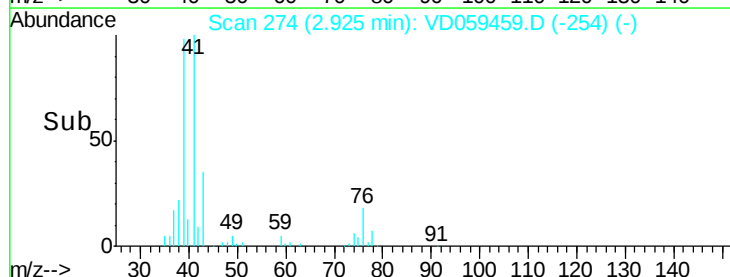
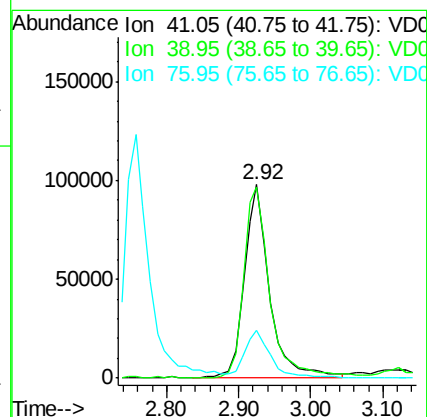
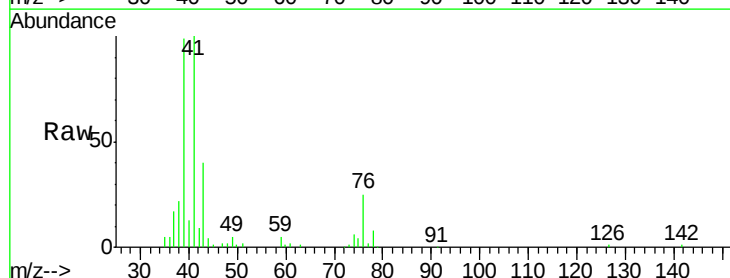
Tgt Ion: 41 Resp: 239664

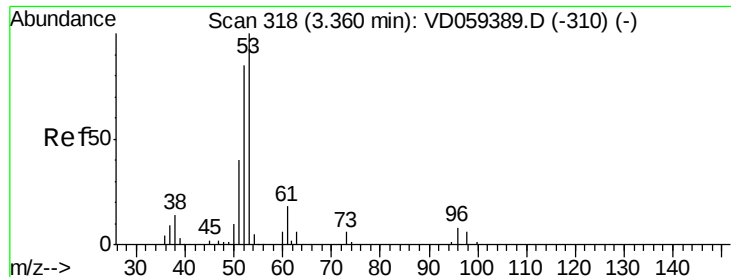
Ion Ratio Lower Upper

41 100

39 98.6 79.1 118.7

76 24.6 21.9 32.9





#15

Acrylonitrile

Concen: 273.48 ug/l

RT: 3.38 min Scan# 320

Delta R.T. 0.02 min

Lab File: VD059459.D

Acq: 27 Jun 2018 22:05

Instrument :

MSVOA_D

ClientSampleId :

ZER-SB-04-1-2MSD

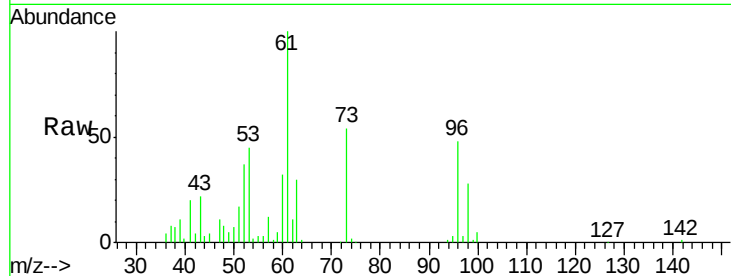
Tot Ion: 53 Resp: 210216

Ion Ratio Lower Upper

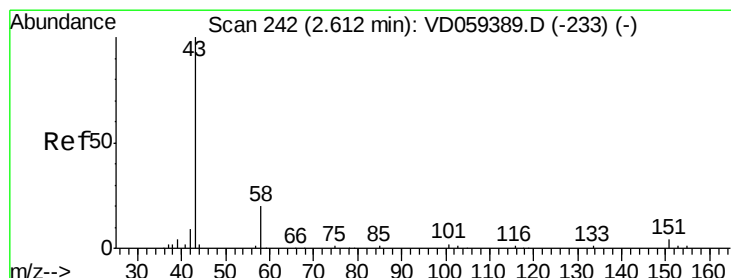
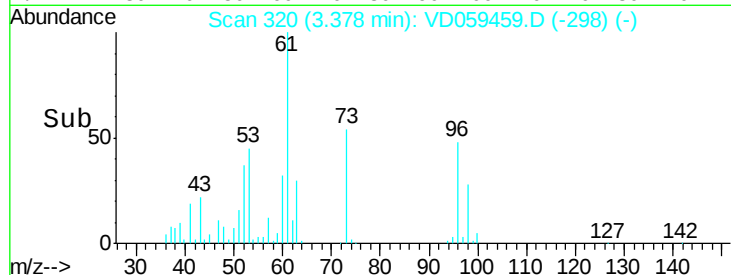
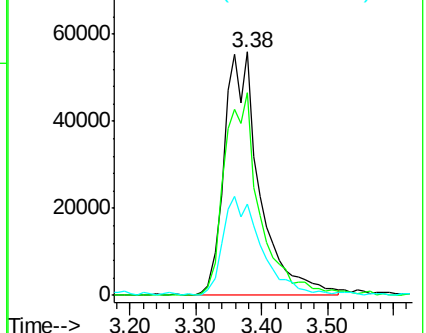
53 100

52 83.4 67.9 101.9

51 37.7 32.2 48.4



Abundance Ion 53.00 (52.70 to 53.70): VDC
Ion 52.00 (51.70 to 52.70): VDC
Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 337.92 ug/l

RT: 2.61 min Scan# 242

Delta R.T. -0.00 min

Lab File: VD059459.D

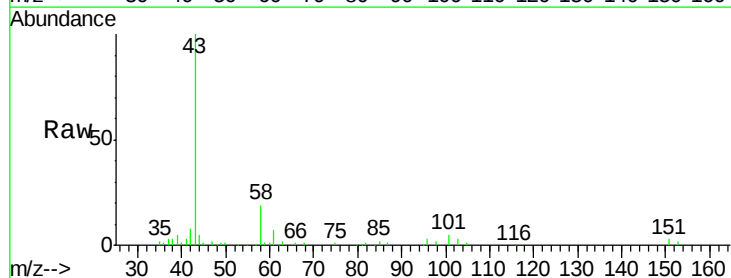
Acq: 27 Jun 2018 22:05

Tgt Ion: 43 Resp: 308757

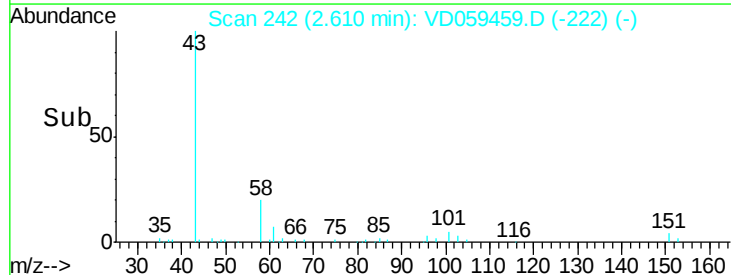
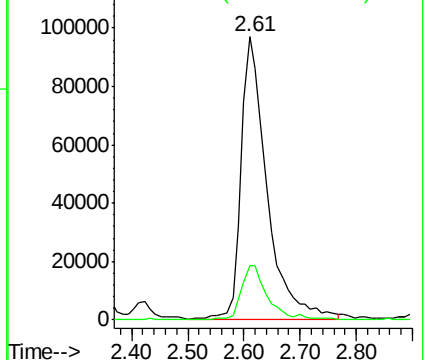
Ion Ratio Lower Upper

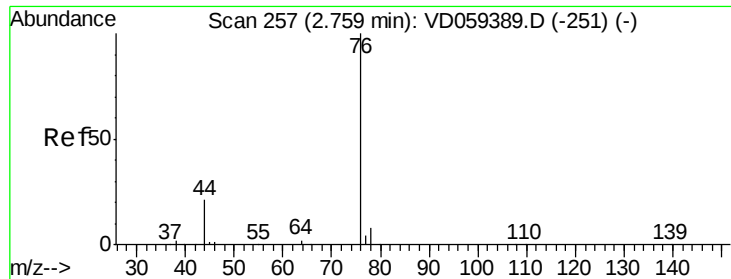
43 100

58 19.2 16.8 25.2



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

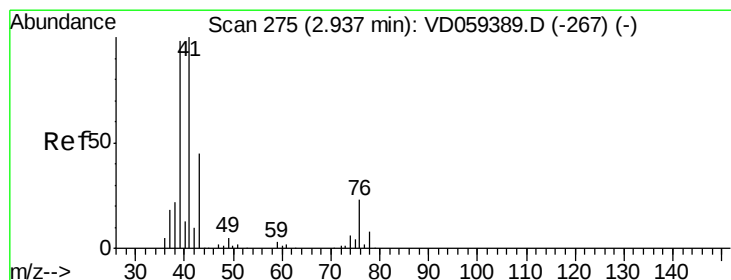
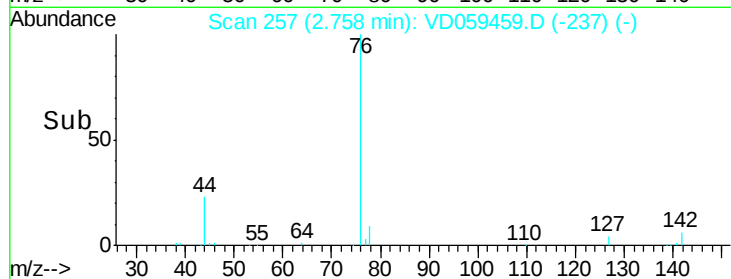
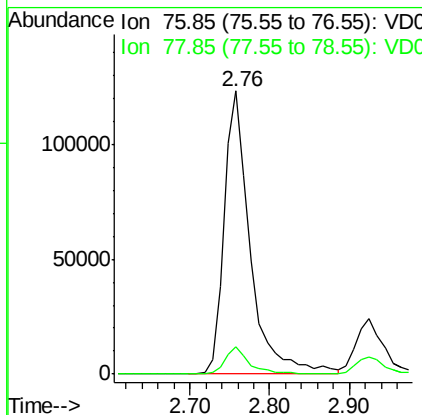
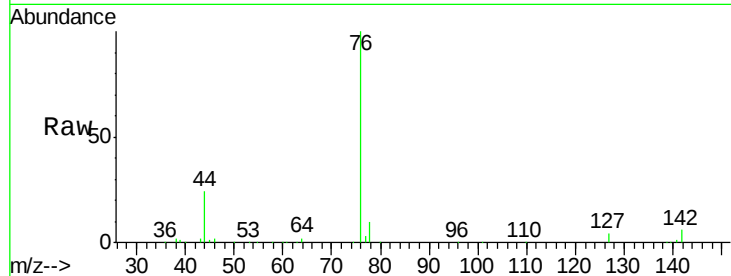




#17
Carbon Disulfide
Concen: 39.74 ug/l
RT: 2.76 min Scan# 257
Delta R.T. -0.00 min
Lab File: VD059459.D
Acq: 27 Jun 2018 22:05

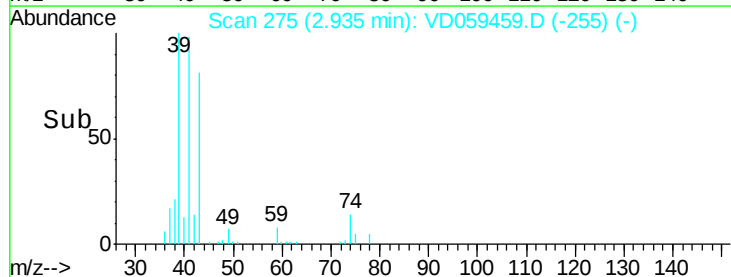
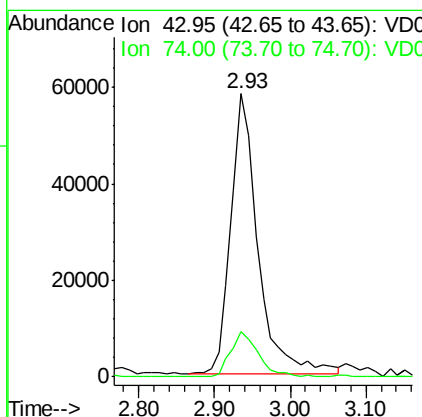
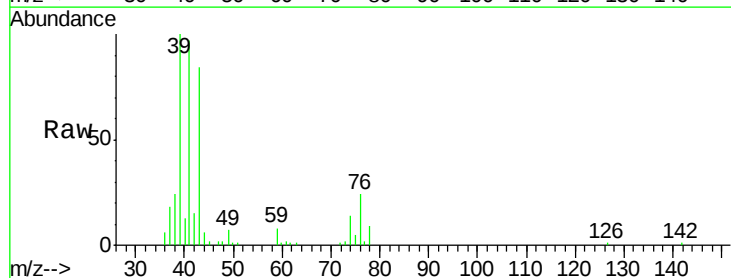
Instrument :
MSVOA_D
ClientSampleId :
ZER-SB-04-1-2MSD

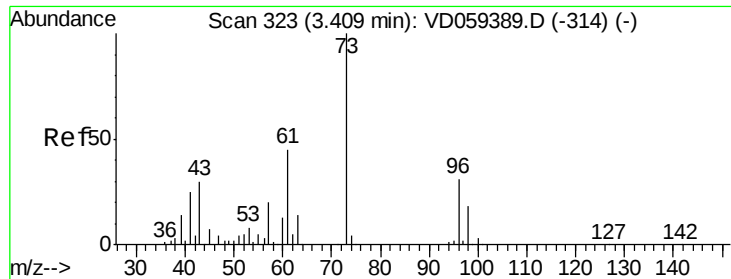
Tot Ion: 76 Resp: 283907
Ion Ratio Lower Upper
76 100
78 9.7 6.6 9.8



#18
Methyl Acetate
Concen: 72.98 ug/l
RT: 2.93 min Scan# 275
Delta R.T. -0.00 min
Lab File: VD059459.D
Acq: 27 Jun 2018 22:05

Tgt Ion: 43 Resp: 145712
Ion Ratio Lower Upper
43 100
74 16.1 11.0 16.4

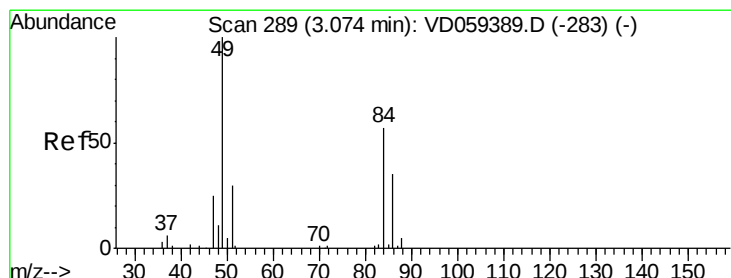
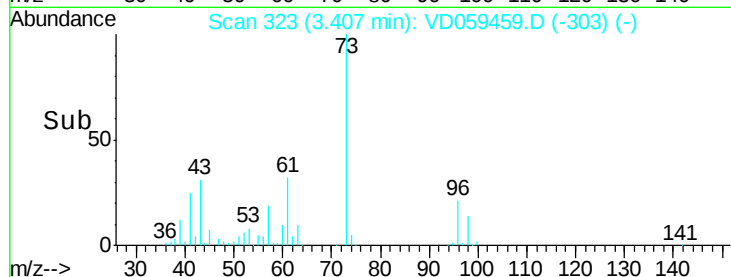
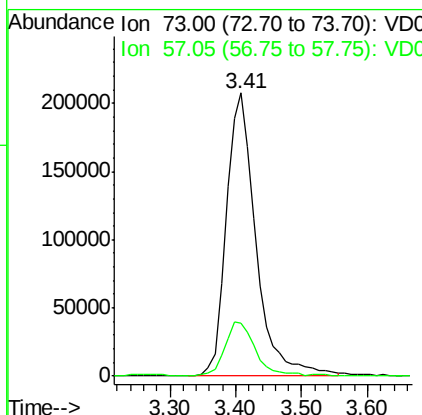
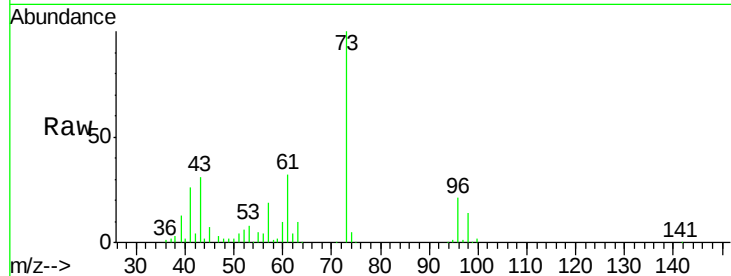




#19
Methyl tert-butyl Ether
Concen: 56.99 ug/l
RT: 3.41 min Scan# 323
Delta R.T. -0.00 min
Lab File: VD059459.D
Acq: 27 Jun 2018 22:05

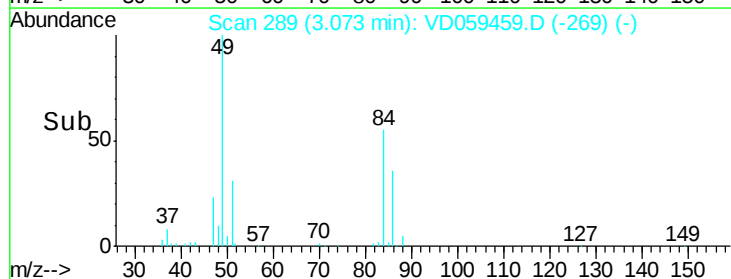
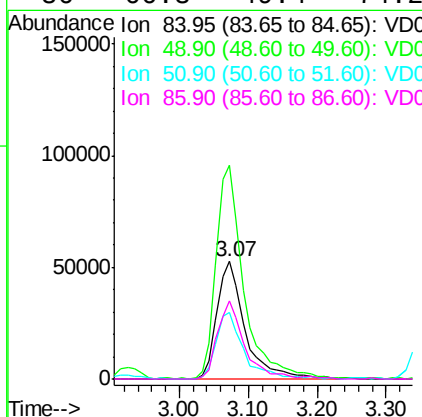
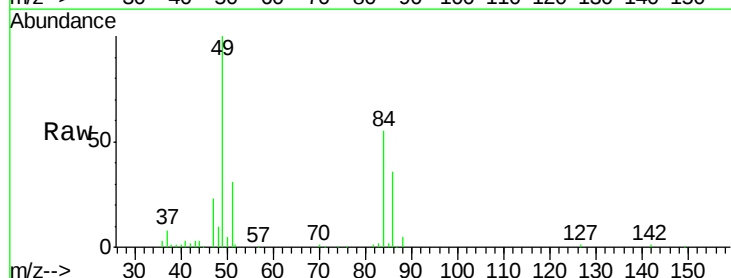
Instrument :
MSVOA_D
ClientSampleId :
ZER-SB-04-1-2MSD

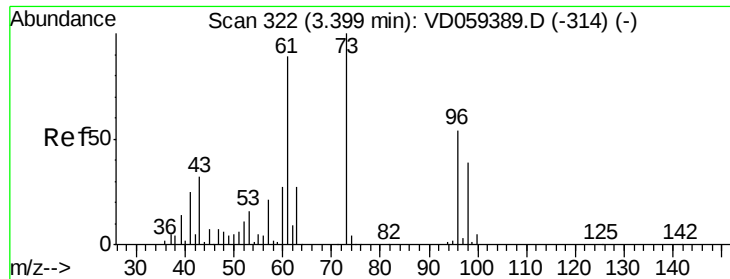
Tot Ion: 73 Resp: 654300
Ion Ratio Lower Upper
73 100
57 18.7 16.1 24.1



#20
Methylene Chloride
Concen: 59.11 ug/l
RT: 3.07 min Scan# 289
Delta R.T. -0.00 min
Lab File: VD059459.D
Acq: 27 Jun 2018 22:05

Tgt Ion: 84 Resp: 148637
Ion Ratio Lower Upper
84 100
49 181.7 140.3 210.5
51 56.8 41.6 62.4
86 66.3 49.4 74.2

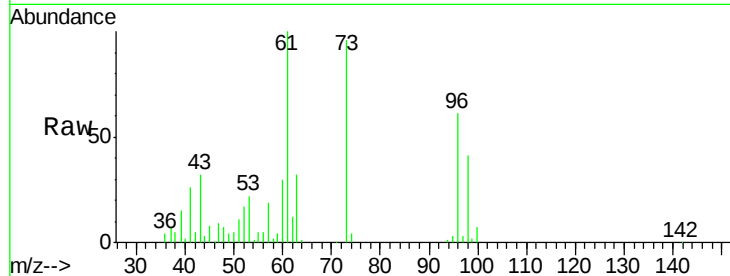




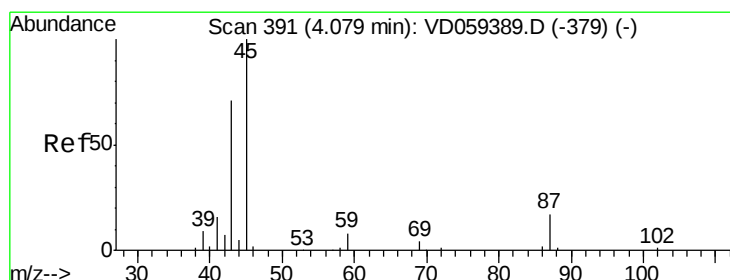
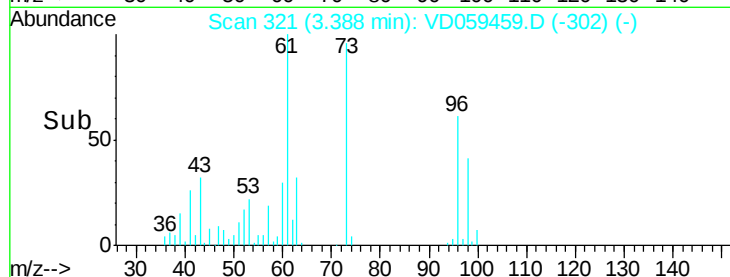
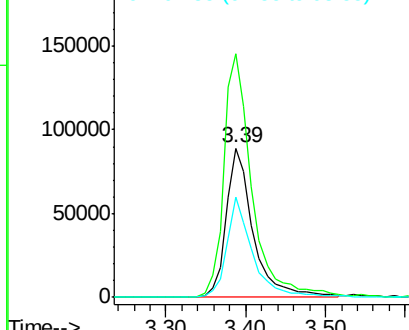
#21
trans-1,2-Dichloroethene
Concen: 51.39 ug/l
RT: 3.39 min Scan# 321
Delta R.T. -0.01 min
Lab File: VD059459.D
Acq: 27 Jun 2018 22:05

Instrument :
MSVOA_D
ClientSampleId :
ZER-SB-04-1-2MSD

Tot Ion: 96 Resp: 211972
Ion Ratio Lower Upper
96 100
61 163.3 131.0 196.4
98 66.9 56.8 85.2

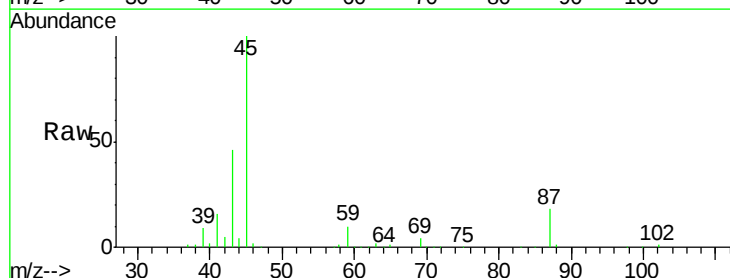


Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC

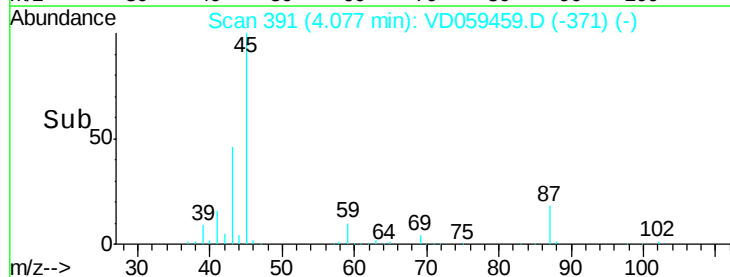
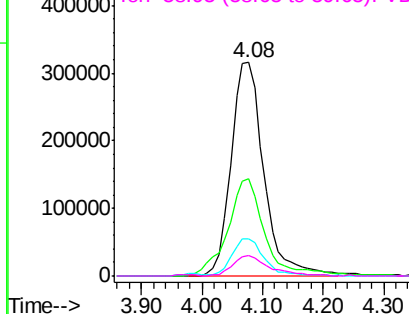


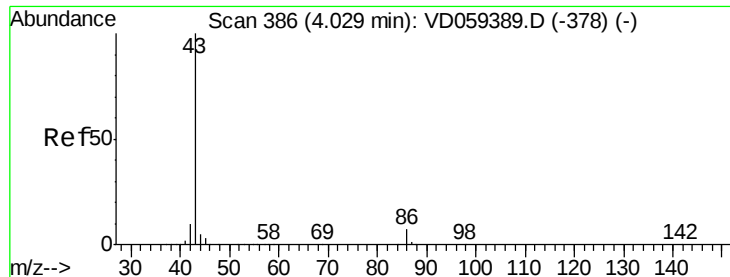
#22
Diisopropyl ether
Concen: 59.09 ug/l
RT: 4.08 min Scan# 391
Delta R.T. -0.00 min
Lab File: VD059459.D
Acq: 27 Jun 2018 22:05

Tgt Ion: 45 Resp: 1187094
Ion Ratio Lower Upper
45 100
43 45.7 56.9 85.3#
87 17.6 14.2 21.4
59 9.7 7.0 10.4



Abundance Ion 45.05 (44.75 to 45.75): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 87.00 (86.70 to 87.70): VDC
Ion 58.95 (58.65 to 59.65): VDC





#23

Vinyl Acetate

Concen: 56.67 ug/l

RT: 4.08 min Scan# 391

Delta R.T. 0.05 min

Lab File: VD059459.D

Acq: 27 Jun 2018 22:05

Instrument :

MSVOA_D

ClientSampleId :

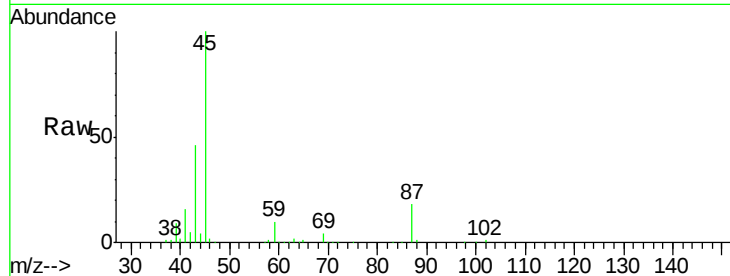
ZER-SB-04-1-2MSD

Tot Ion: 43 Resp: 593114

Ion Ratio Lower Upper

43 100

86 0.0 5.2 7.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC

4.08

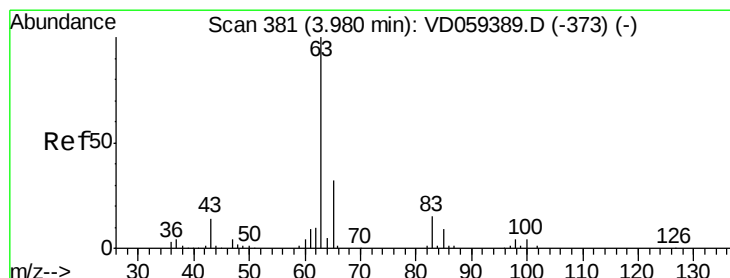
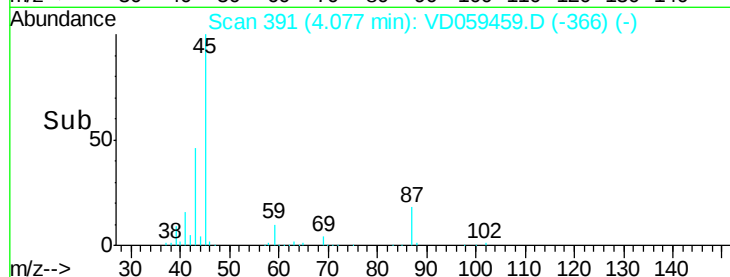
150000

100000

50000

0

Time-->



#24

1,1-Dichloroethane

Concen: 57.92 ug/l

RT: 3.98 min Scan# 381

Delta R.T. -0.00 min

Lab File: VD059459.D

Acq: 27 Jun 2018 22:05

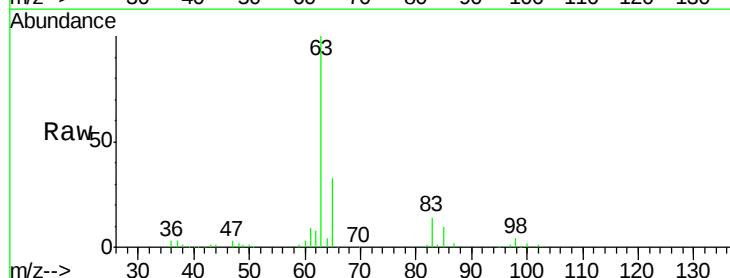
Tgt Ion: 63 Resp: 665837

Ion Ratio Lower Upper

63 100

98 4.4 2.1 6.5

100 2.1 1.8 5.5



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC

3.98

250000

200000

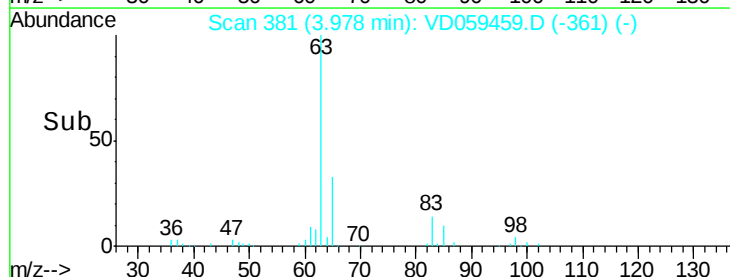
150000

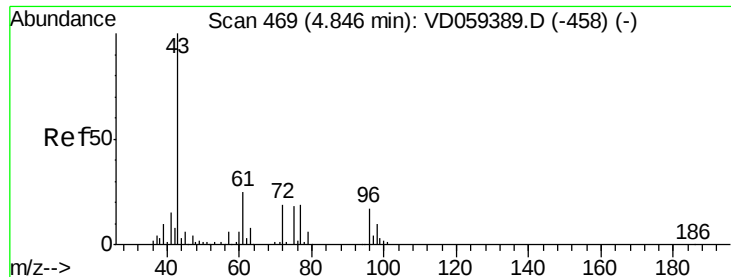
100000

50000

0

Time-->





#25

2-Butanone

Concen: 279.60 ug/l

RT: 4.83 min Scan# 468

Delta R.T. -0.01 min

Lab File: VD059459.D

Acq: 27 Jun 2018 22:05

Instrument :

MSVOA_D

ClientSampleId :

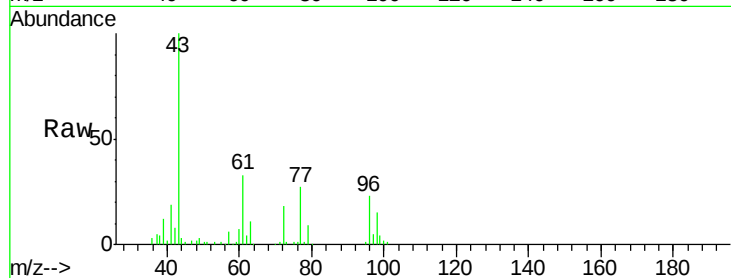
ZER-SB-04-1-2MSD

Tot Ion: 43 Resp: 535172

Ion Ratio Lower Upper

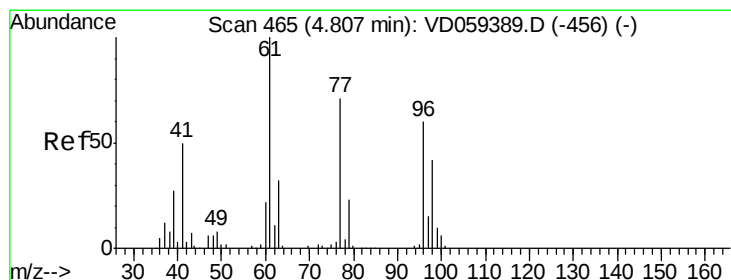
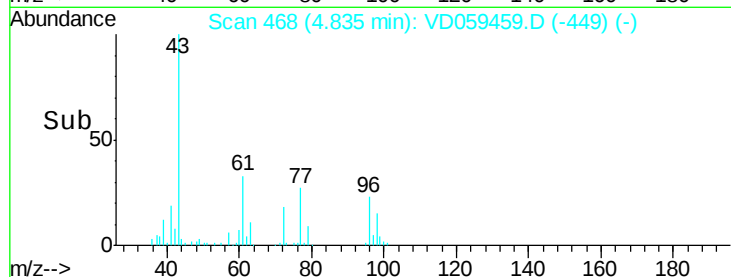
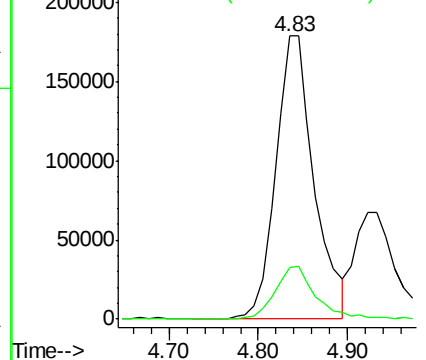
43 100

72 18.2 15.4 23.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 58.20 ug/l

RT: 4.81 min Scan# 465

Delta R.T. -0.00 min

Lab File: VD059459.D

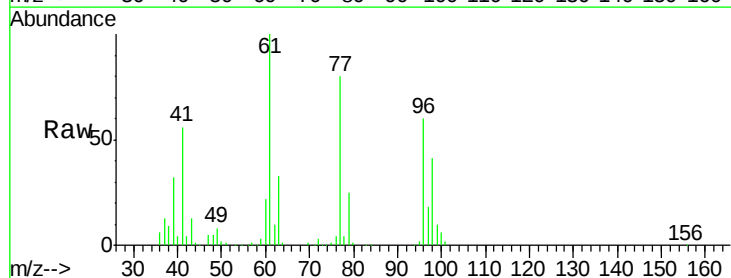
Acq: 27 Jun 2018 22:05

Tgt Ion: 77 Resp: 518855

Ion Ratio Lower Upper

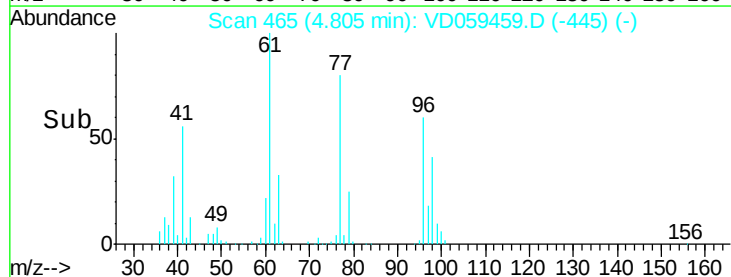
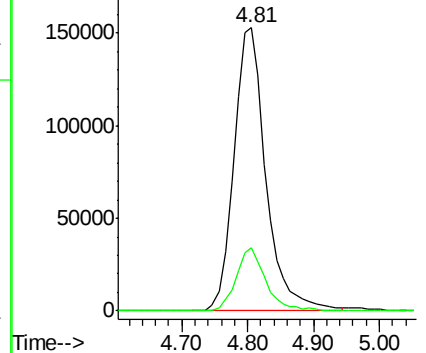
77 100

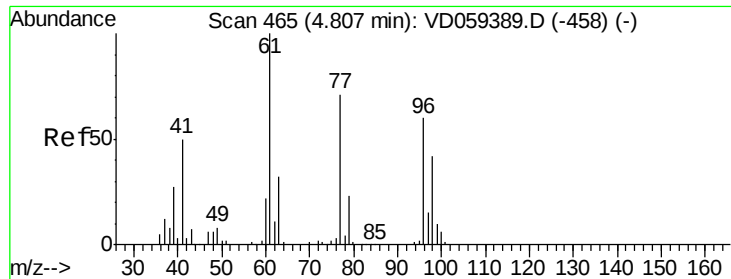
97 22.2 10.7 32.1



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#27

cis-1,2-Dichloroethene

Concen: 48.15 ug/l

RT: 4.81 min Scan# 465

Delta R.T. -0.00 min

Lab File: VD059459.D

Acq: 27 Jun 2018 22:05

Instrument :

MSVOA_D

ClientSampleId :

ZER-SB-04-1-2MSD

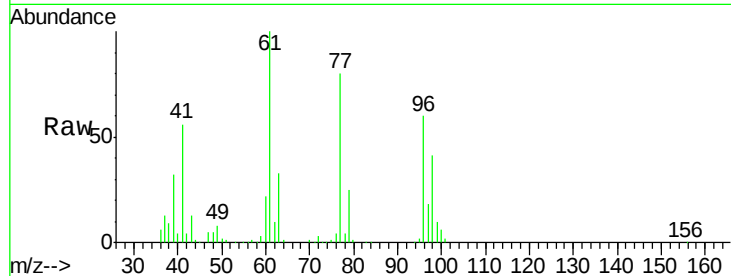
Tot Ion: 96 Resp: 333726

Ion Ratio Lower Upper

96 100

61 165.9 0.0 335.8

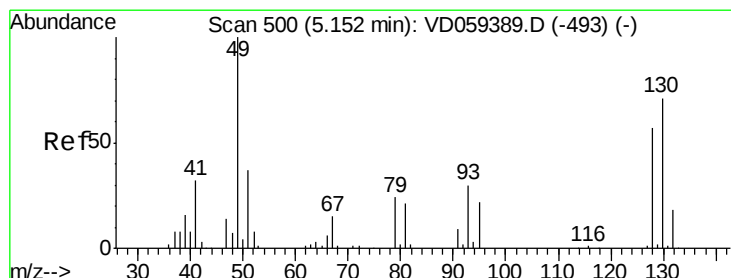
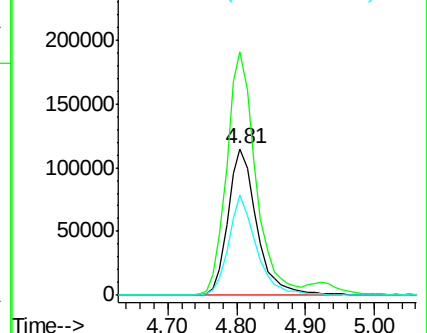
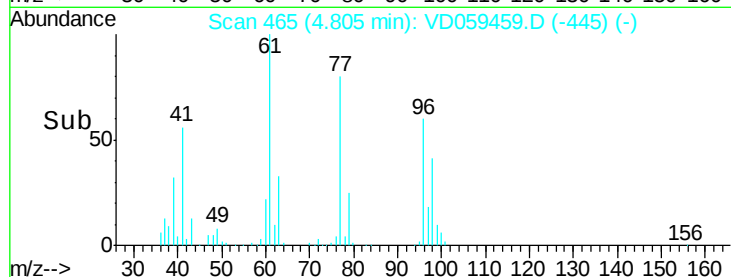
98 68.0 0.0 141.0



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



#28

Bromochloromethane

Concen: 53.57 ug/l

RT: 5.15 min Scan# 500

Delta R.T. -0.00 min

Lab File: VD059459.D

Acq: 27 Jun 2018 22:05

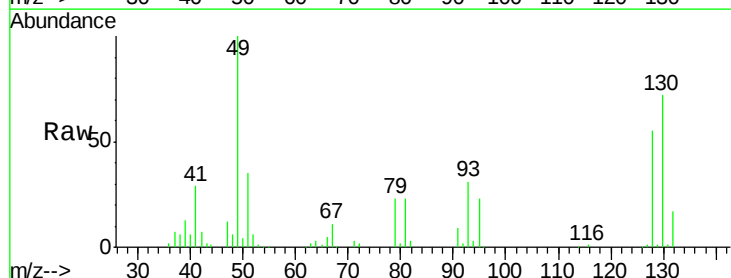
Tgt Ion: 49 Resp: 266966

Ion Ratio Lower Upper

49 100

129 1.4 0.0 4.4

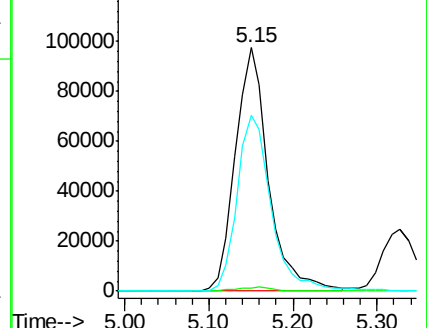
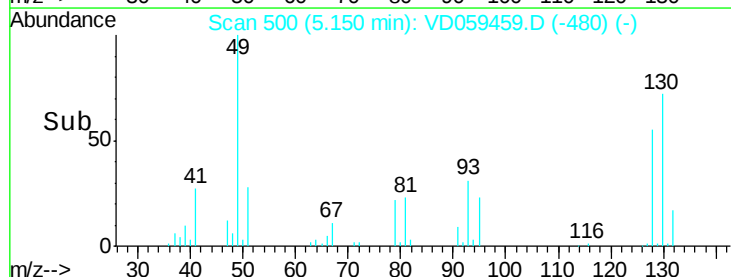
130 72.4 57.0 85.6

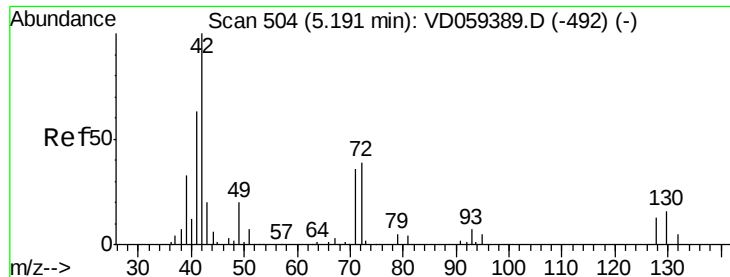


Abundance Ion 48.90 (48.60 to 49.60): VDC

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

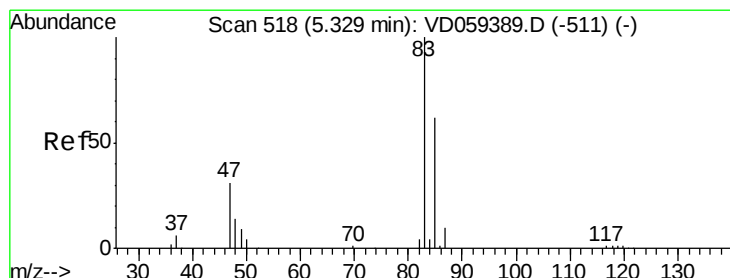
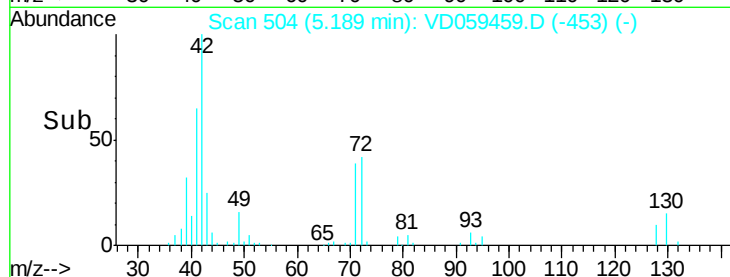
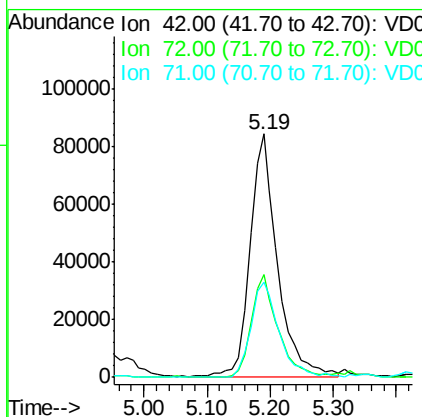
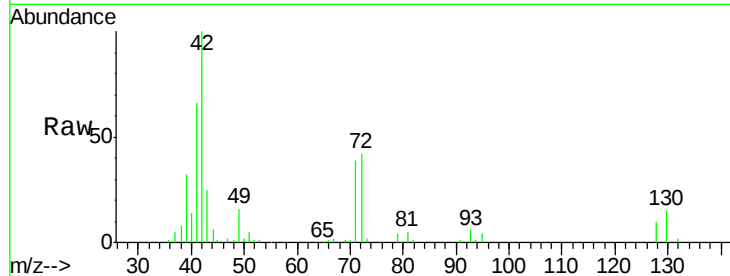




#29
Tetrahydrofuran
Concen: 245.71 ug/l
RT: 5.19 min Scan# 504
Delta R.T. -0.00 min
Lab File: VD059459.D
Acq: 27 Jun 2018 22:05

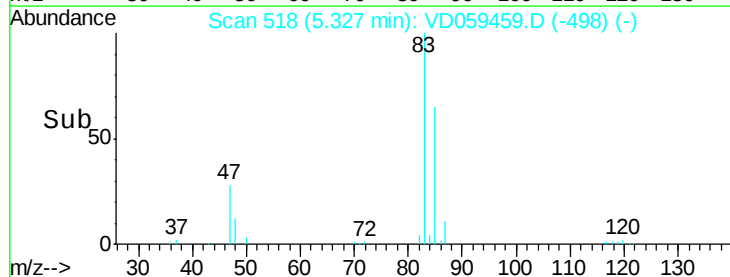
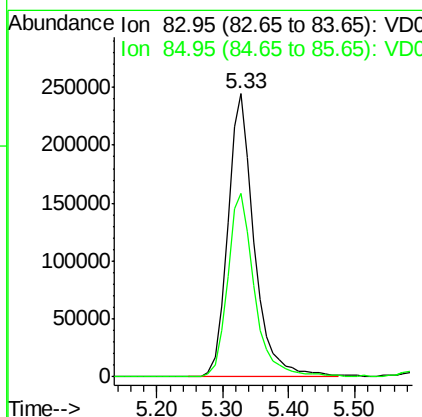
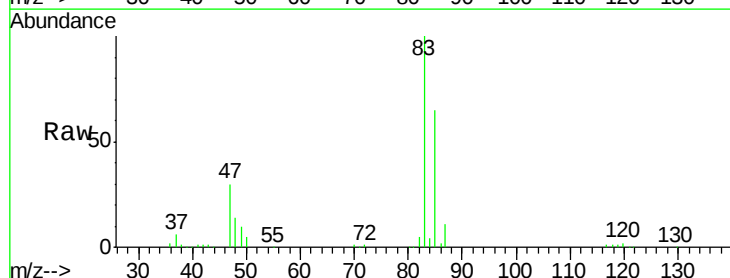
Instrument :
MSVOA_D
ClientSampleId :
ZER-SB-04-1-2MSD

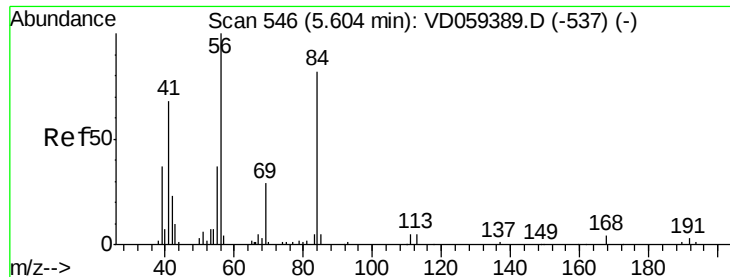
Tot Ion: 42 Resp: 257243
Ion Ratio Lower Upper
42 100
72 40.7 31.4 47.2
71 40.1 29.7 44.5



#30
Chloroform
Concen: 54.66 ug/l
RT: 5.33 min Scan# 518
Delta R.T. -0.00 min
Lab File: VD059459.D
Acq: 27 Jun 2018 22:05

Tgt Ion: 83 Resp: 684876
Ion Ratio Lower Upper
83 100
85 64.9 49.3 73.9

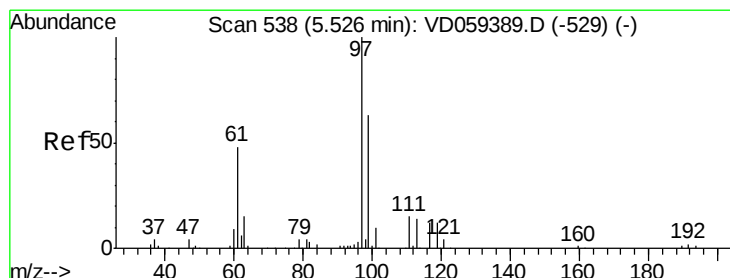
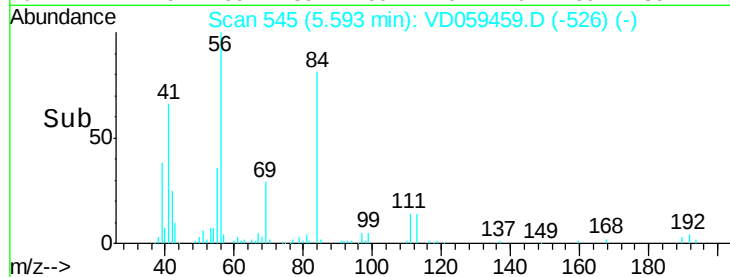
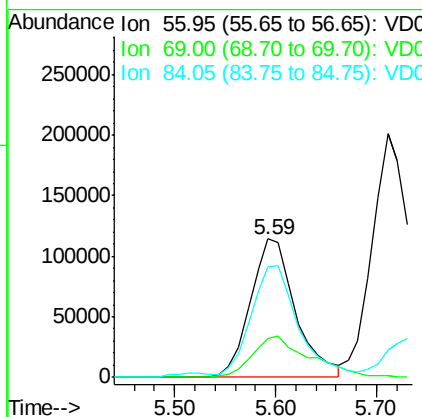
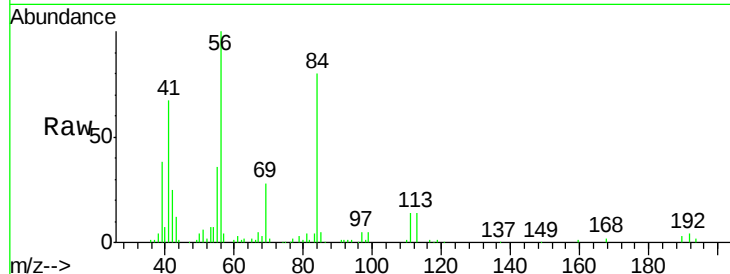




#31
Cyclohexane
Concen: 46.57 ug/l
RT: 5.59 min Scan# 545
Delta R.T. -0.01 min
Lab File: VD059459.D
Acq: 27 Jun 2018 22:05

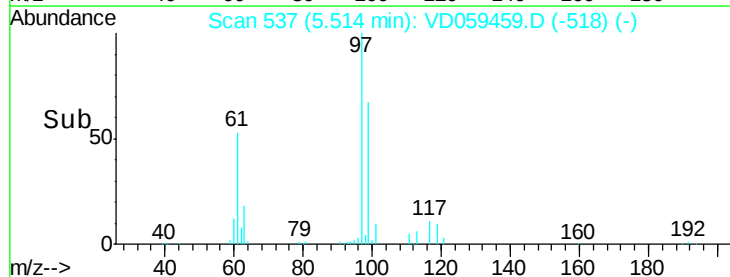
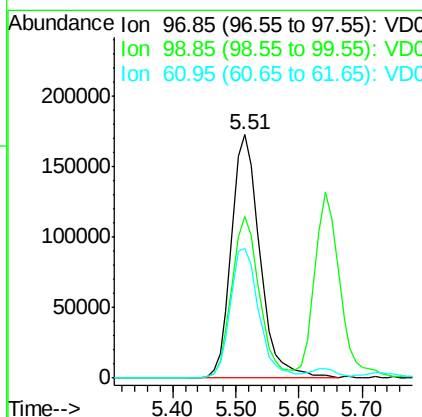
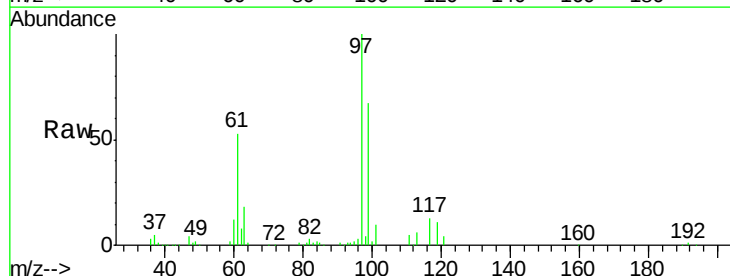
Instrument :
MSVOA_D
ClientSampleId :
ZER-SB-04-1-2MSD

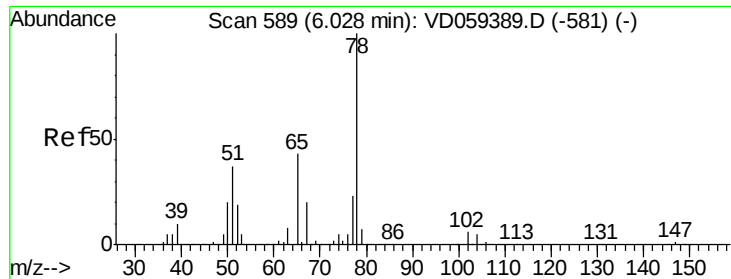
Tot Ion	56	Resp	355305
Ion	Ratio	Lower	Upper
56	100		
69	28.4	22.9	34.3
84	80.3	67.3	100.9



#32
1,1,1-Trichloroethane
Concen: 53.22 ug/l
RT: 5.51 min Scan# 537
Delta R.T. -0.01 min
Lab File: VD059459.D
Acq: 27 Jun 2018 22:05

Tgt Ion	97	Resp	539956
Ion	Ratio	Lower	Upper
97	100		
99	66.5	50.2	75.4
61	53.2	38.6	57.8





#33

1,2-Dichloroethane-d4

Concen: 53.22 ug/l

RT: 6.03 min Scan# 589

Delta R.T. -0.00 min

Lab File: VD059459.D

Acq: 27 Jun 2018 22:05

Instrument :

MSVOA_D

ClientSampleId :

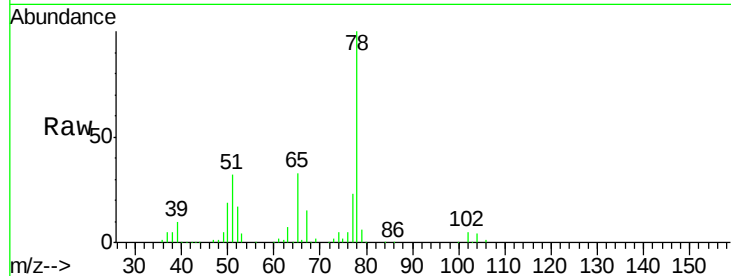
ZER-SB-04-1-2MSD

Tot Ion: 65 Resp: 328125

Ion Ratio Lower Upper

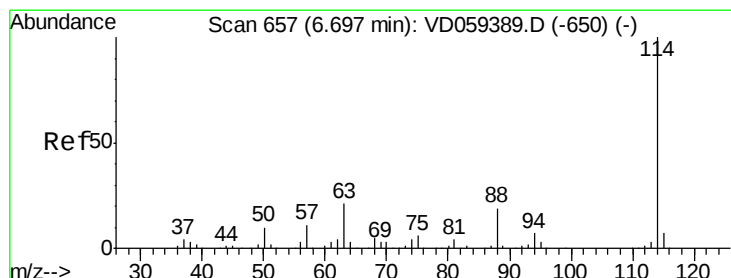
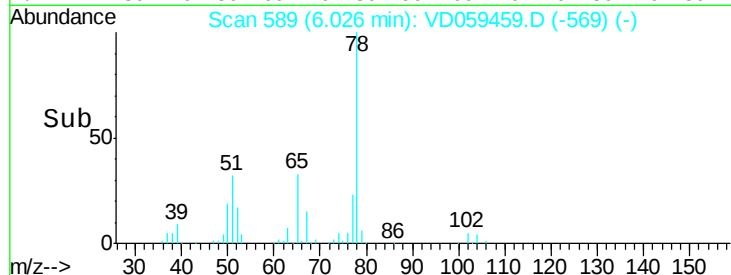
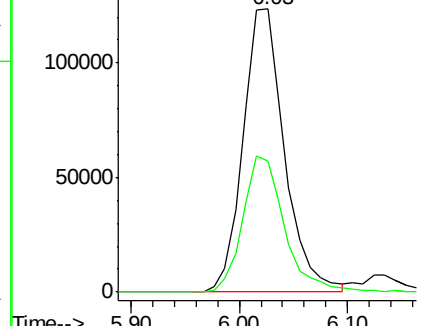
65 100

67 46.5 0.0 93.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.70 min Scan# 657

Delta R.T. -0.00 min

Lab File: VD059459.D

Acq: 27 Jun 2018 22:05

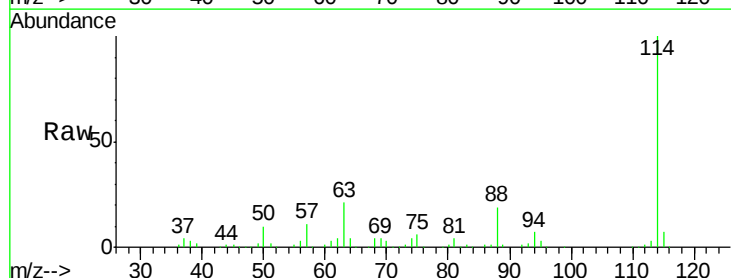
Tgt Ion: 114 Resp: 936152

Ion Ratio Lower Upper

114 100

63 20.6 0.0 42.4

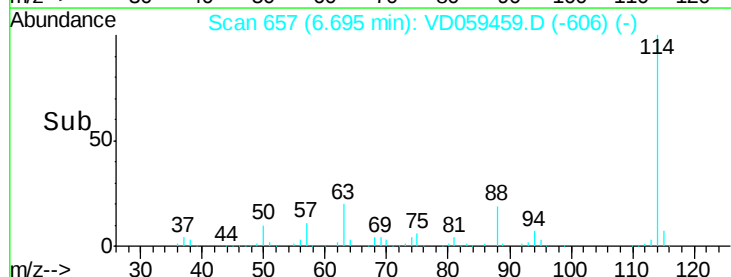
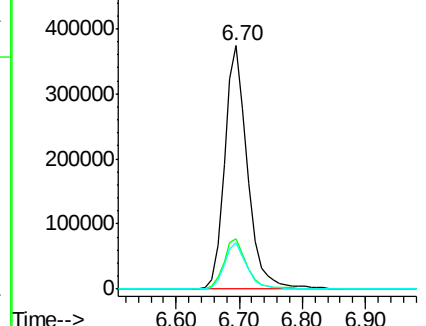
88 19.2 0.0 38.0

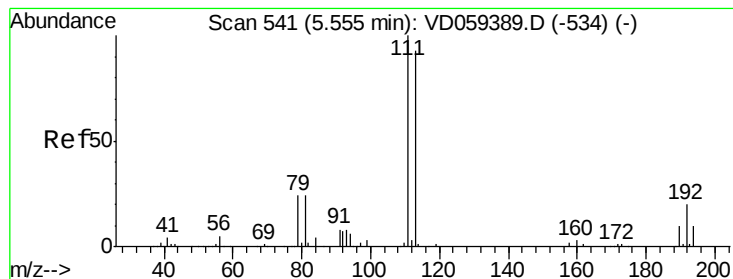


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.00 ug/l

RT: 5.55 min Scan# 541

Delta R.T. -0.00 min

Lab File: VD059459.D

Acq: 27 Jun 2018 22:05

Instrument :
MSVOA_D
ClientSampleId :
ZER-SB-04-1-2MSD

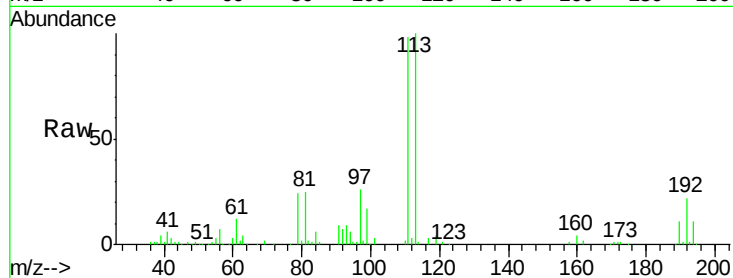
Tot Ion:113 Resp: 338253

Ion Ratio Lower Upper

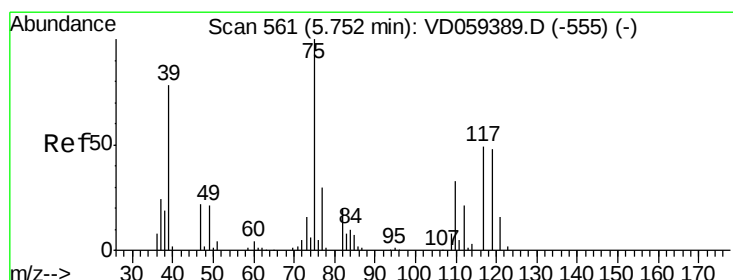
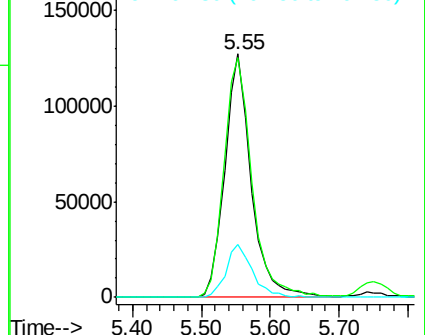
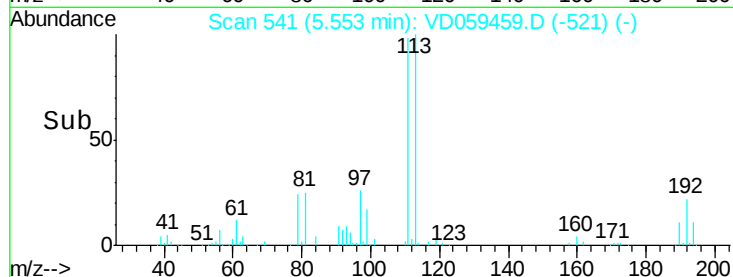
113 100

111 98.4 85.7 128.5

192 22.0 16.9 25.3



Abundance Ion 112.90 (112.60 to 113.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 49.73 ug/l

RT: 5.75 min Scan# 561

Delta R.T. -0.00 min

Lab File: VD059459.D

Acq: 27 Jun 2018 22:05

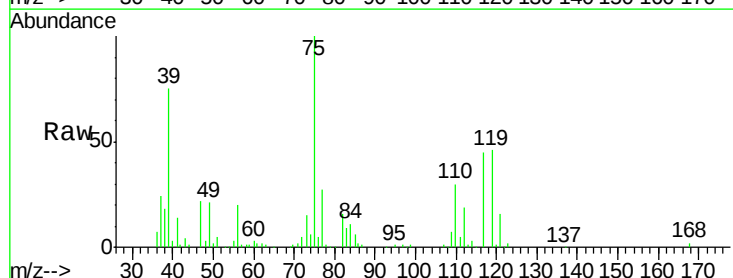
Tgt Ion: 75 Resp: 422331

Ion Ratio Lower Upper

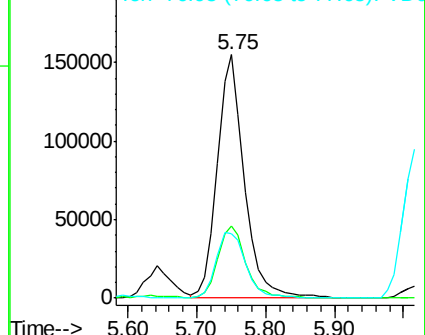
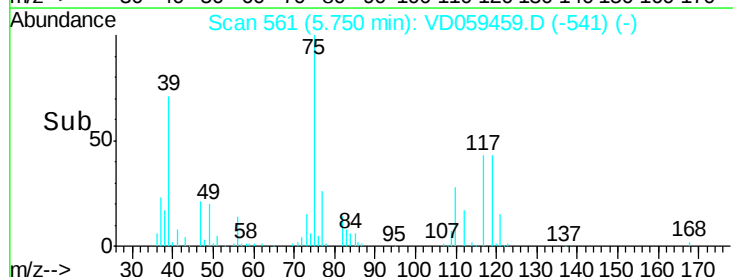
75 100

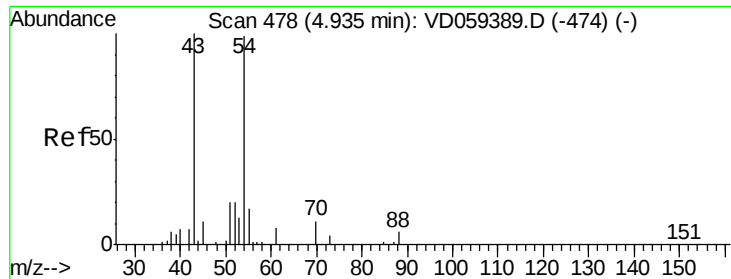
110 29.7 16.1 48.2

77 26.6 23.4 35.2



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 109.90 (109.60 to 110.60): V
Ion 76.95 (76.65 to 77.65): VDC

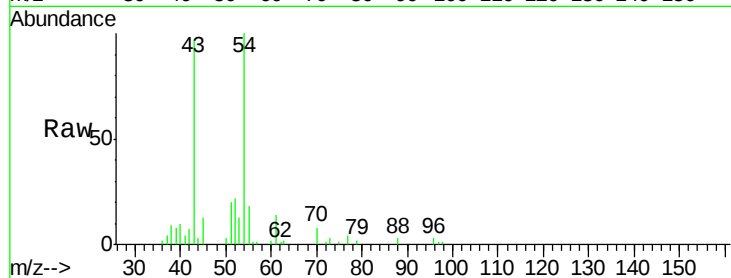




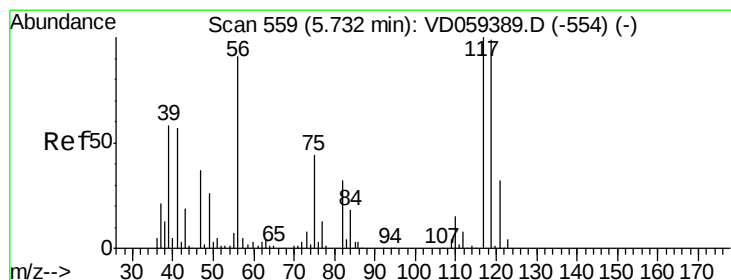
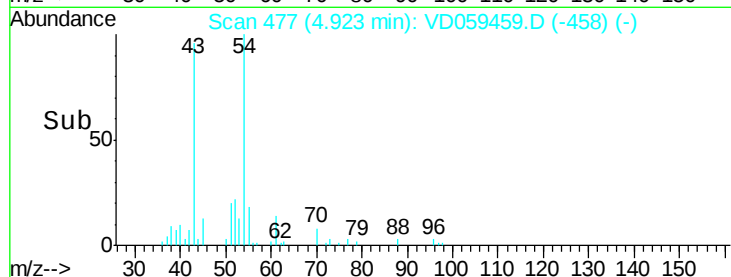
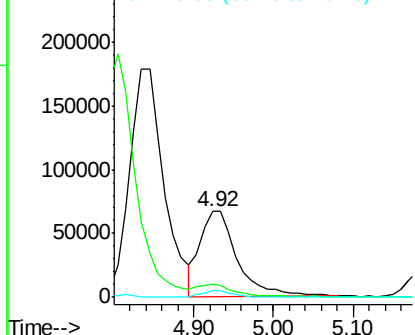
#37
Ethyl Acetate
Concen: 41.51 ug/l
RT: 4.92 min Scan# 477
Delta R.T. -0.01 min
Lab File: VD059459.D
Acq: 27 Jun 2018 22:05

Instrument :
MSVOA_D
ClientSampleId :
ZER-SB-04-1-2MSD

Tot Ion: 43 Resp: 214654
Ion Ratio Lower Upper
43 100
61 14.7 11.8 17.8
70 8.0 6.1 9.1

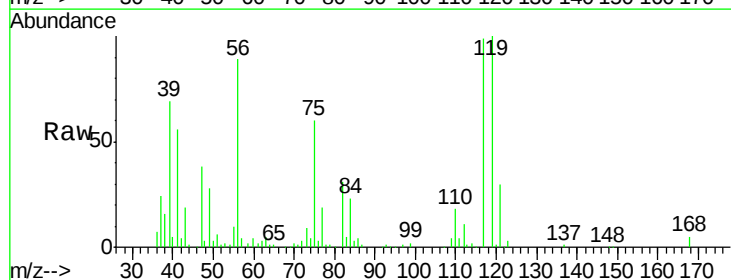


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

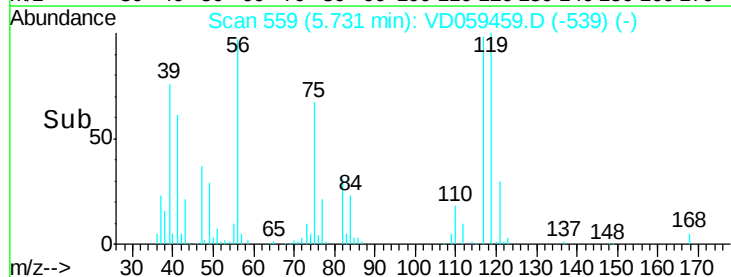
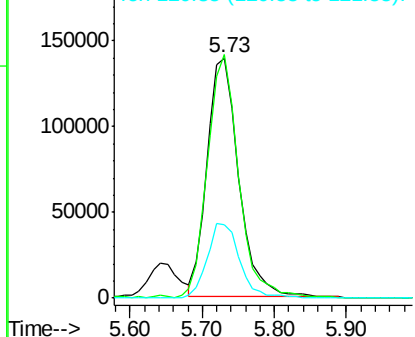


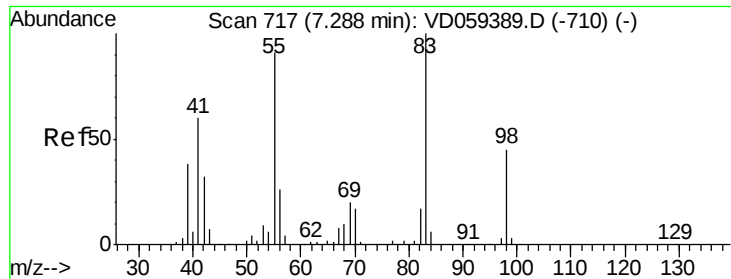
#38
Carbon Tetrachloride
Concen: 48.21 ug/l
RT: 5.73 min Scan# 559
Delta R.T. -0.00 min
Lab File: VD059459.D
Acq: 27 Jun 2018 22:05

Tgt Ion: 117 Resp: 422136
Ion Ratio Lower Upper
117 100
119 101.3 76.6 115.0
121 30.4 25.0 37.4



Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

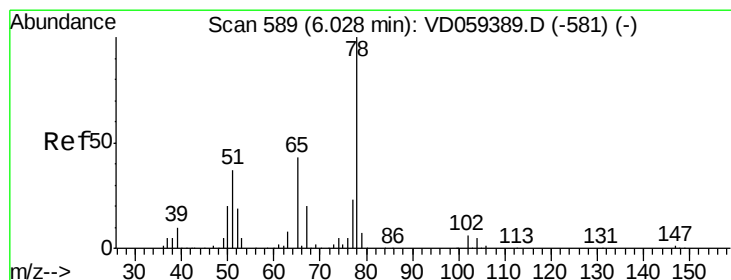
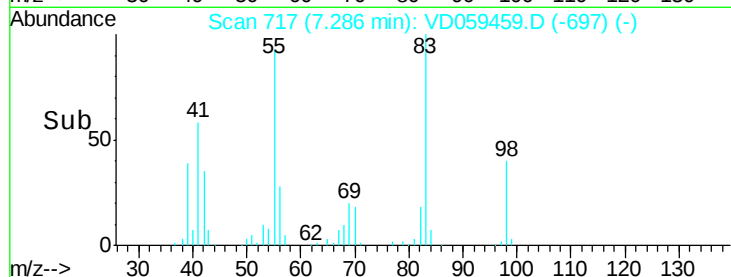
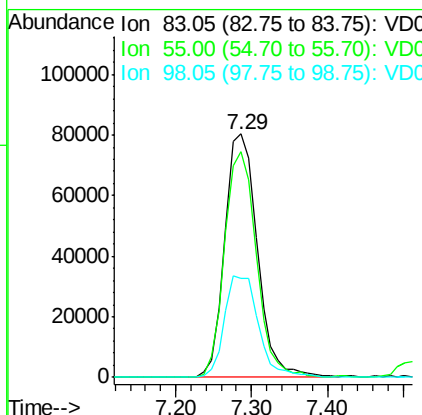
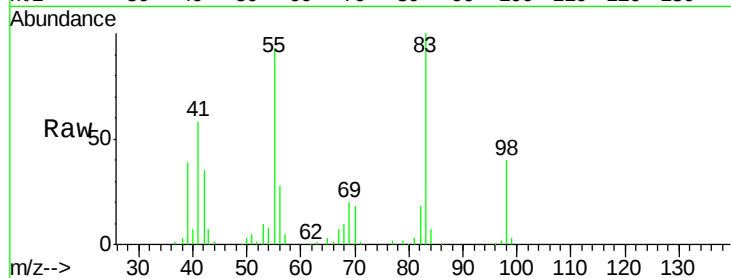




#39
Methvlcvclohexane
Concen: 29.79 ug/l
RT: 7.29 min Scan# 717
Delta R.T. -0.00 min
Lab File: VD059459.D
Acq: 27 Jun 2018 22:05

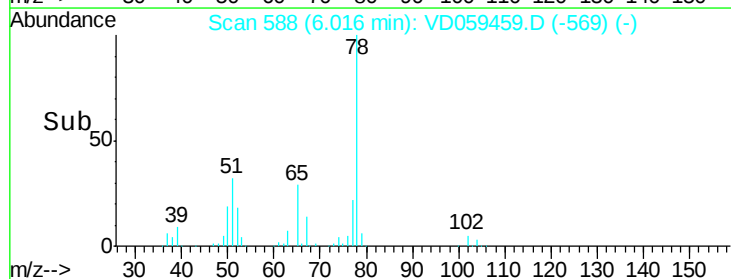
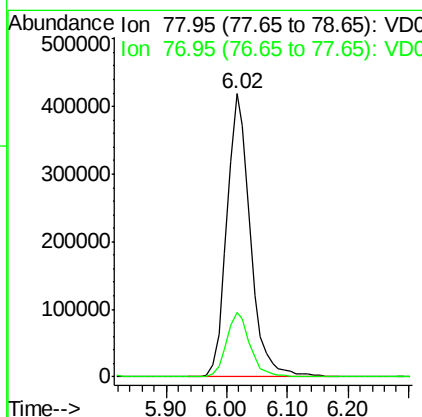
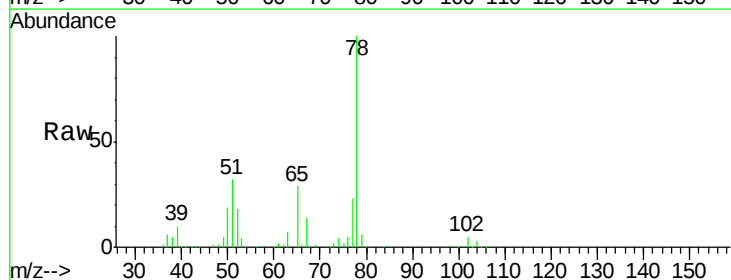
Instrument :
MSVOA_D
ClientSampleId :
ZER-SB-04-1-2MSD

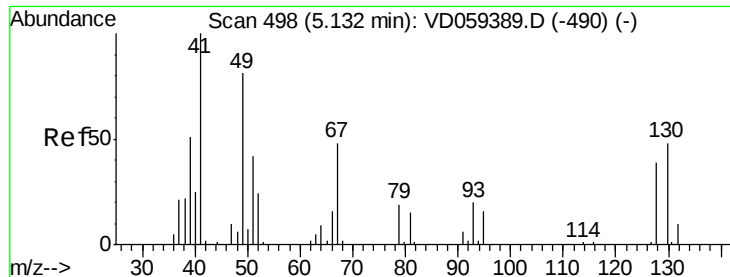
Tot Ion: 83 Resp: 239917
Ion Ratio Lower Upper
83 100
55 92.8 72.6 109.0
98 40.4 35.8 53.6



#40
Benzene
Concen: 55.32 ug/l
RT: 6.02 min Scan# 588
Delta R.T. -0.01 min
Lab File: VD059459.D
Acq: 27 Jun 2018 22:05

Tgt Ion: 78 Resp: 1127385
Ion Ratio Lower Upper
78 100
77 22.6 18.1 27.1

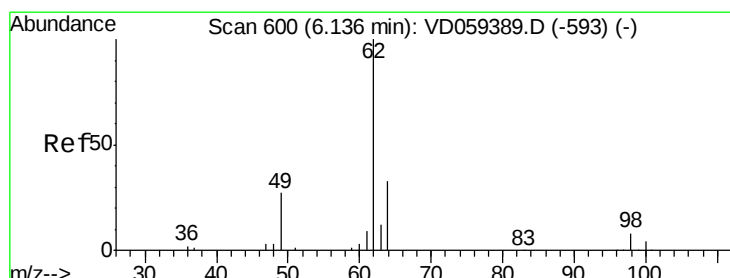
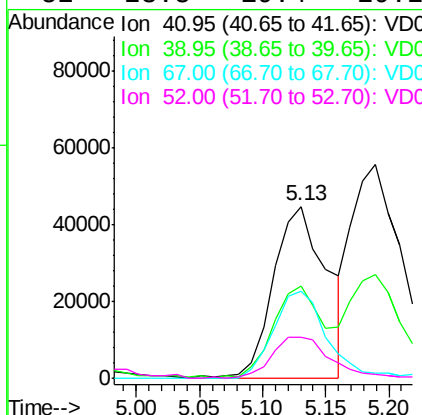
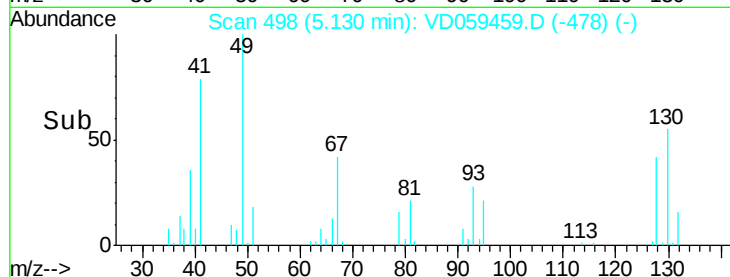
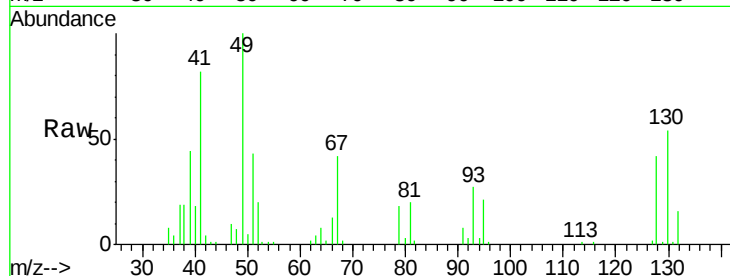




#41
Methacrylonitrile
Concen: 53.05 ug/l
RT: 5.13 min Scan# 498
Delta R.T. -0.00 min
Lab File: VD059459.D
Acq: 27 Jun 2018 22:05

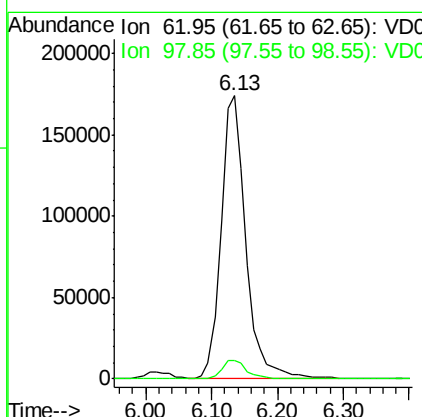
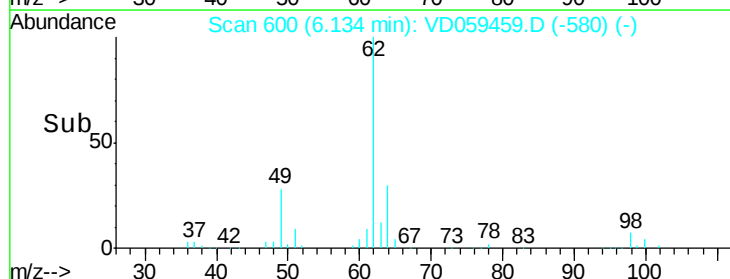
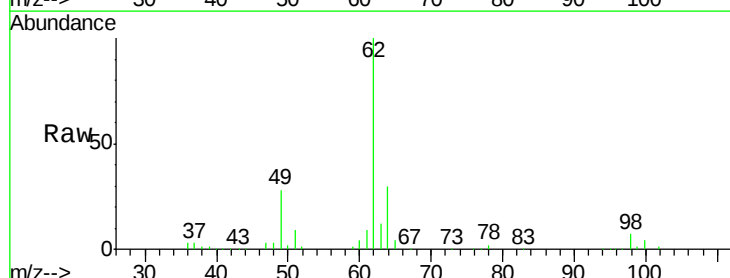
Instrument :
MSVOA_D
ClientSampleId :
ZER-SB-04-1-2MSD

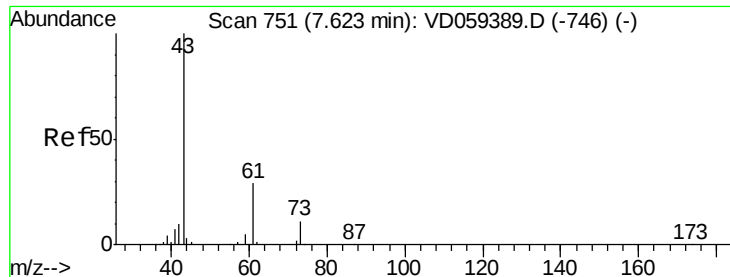
Tot Ion: 41 Resp: 132157
Ion Ratio Lower Upper
41 100
39 53.7 41.5 62.3
67 50.6 38.7 58.1
52 23.8 19.4 29.2



#42
1,2-Dichloroethane
Concen: 50.30 ug/l
RT: 6.13 min Scan# 600
Delta R.T. -0.00 min
Lab File: VD059459.D
Acq: 27 Jun 2018 22:05

Tgt Ion: 62 Resp: 452967
Ion Ratio Lower Upper
62 100
98 6.7 0.0 15.8





#43

Isopropyl Acetate

Concen: 37.95 ug/l

RT: 7.62 min Scan# 751

Delta R.T. -0.00 min

Lab File: VD059459.D

Acq: 27 Jun 2018 22:05

Instrument :

MSVOA_D

ClientSampleId :

ZER-SB-04-1-2MSD

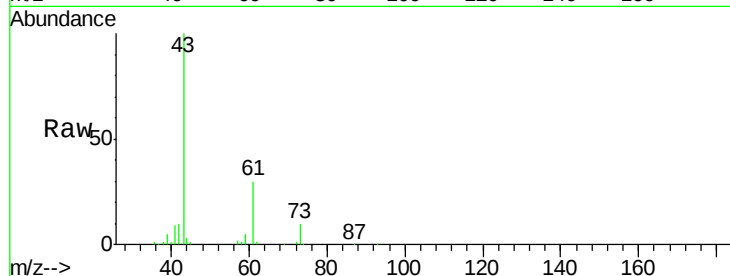
Tot Ion: 43 Resp: 246504

Ion Ratio Lower Upper

43 100

61 29.6 23.1 34.7

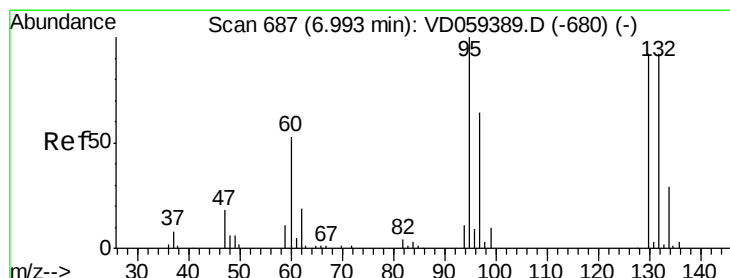
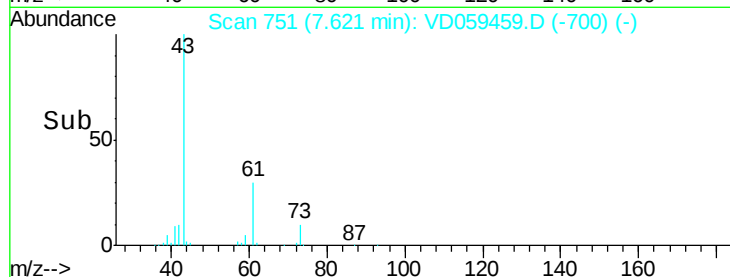
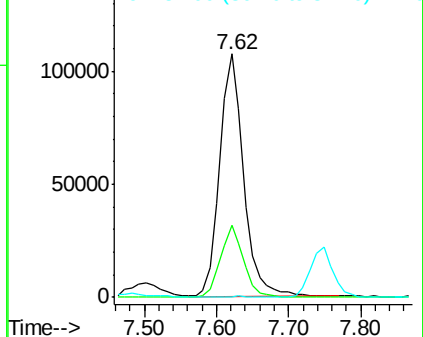
87 0.4 0.2 0.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 55.87 ug/l

RT: 6.98 min Scan# 686

Delta R.T. -0.01 min

Lab File: VD059459.D

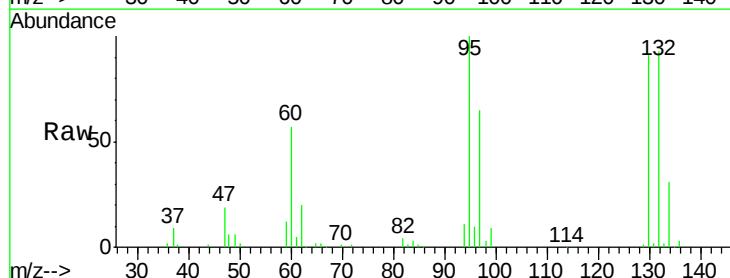
Acq: 27 Jun 2018 22:05

Tgt Ion: 130 Resp: 372819

Ion Ratio Lower Upper

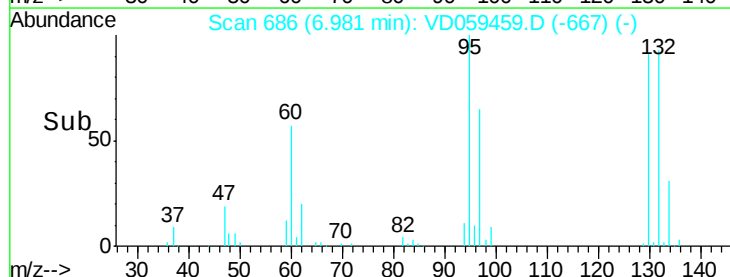
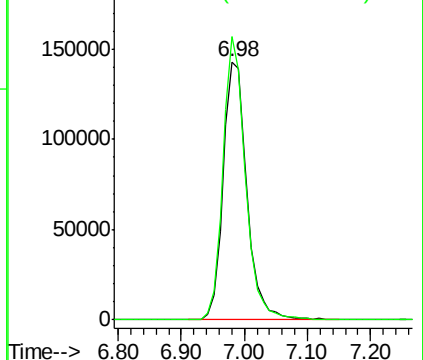
130 100

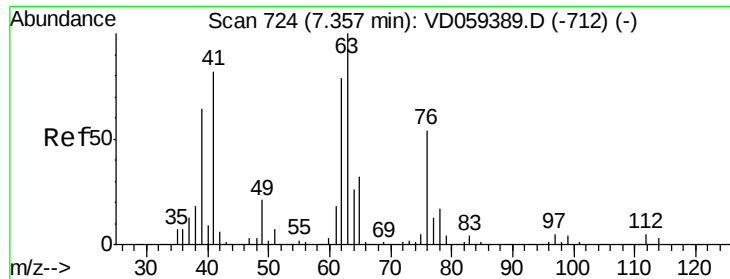
95 109.6 0.0 216.4



Abundance Ion 129.80 (129.50 to 130.50): VDC

Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 54.55 ug/l

RT: 7.35 min Scan# 724

Delta R.T. -0.00 min

Lab File: VD059459.D

Acq: 27 Jun 2018 22:05

Instrument :

MSVOA_D

ClientSampleId :

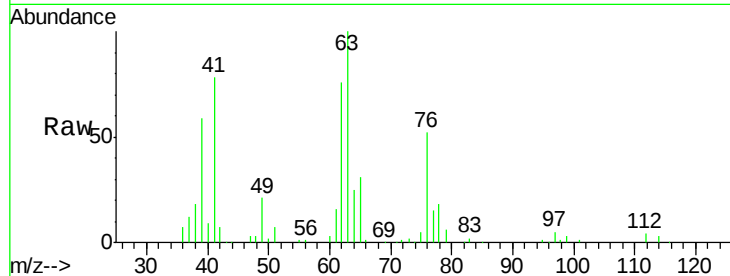
ZER-SB-04-1-2MSD

Tot Ion: 63 Resp: 307893

Ion Ratio Lower Upper

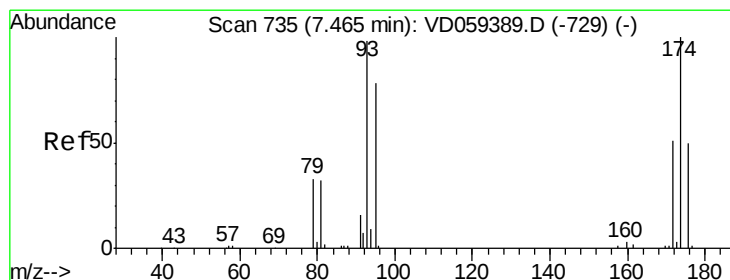
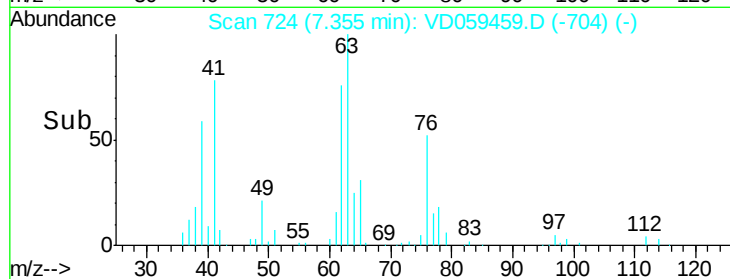
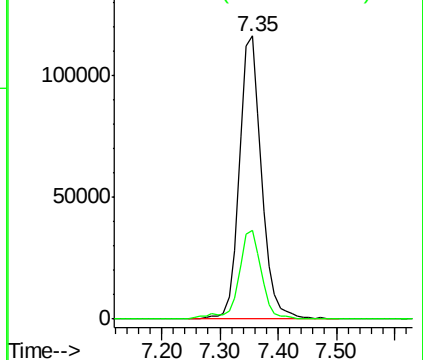
63 100

65 31.3 25.7 38.5



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 49.37 ug/l

RT: 7.46 min Scan# 735

Delta R.T. -0.00 min

Lab File: VD059459.D

Acq: 27 Jun 2018 22:05

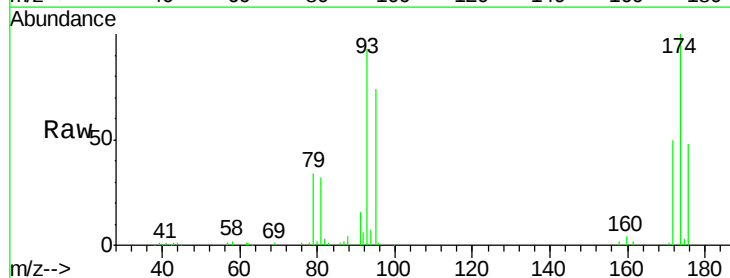
Tgt Ion: 93 Resp: 200410

Ion Ratio Lower Upper

93 100

95 80.2 63.4 95.0

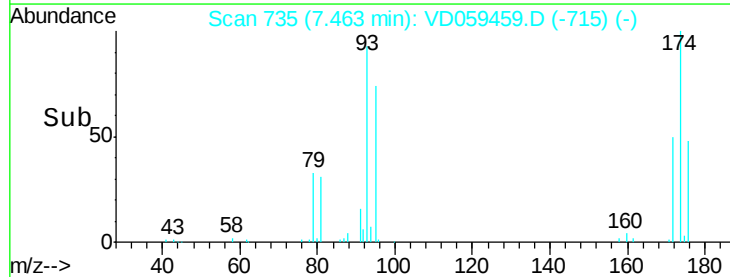
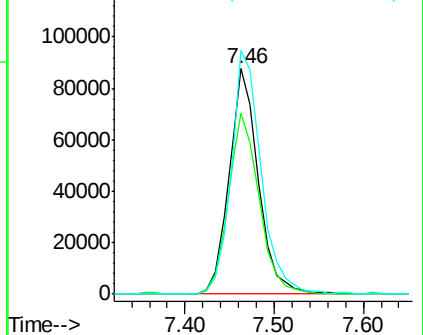
174 108.0 81.4 122.2

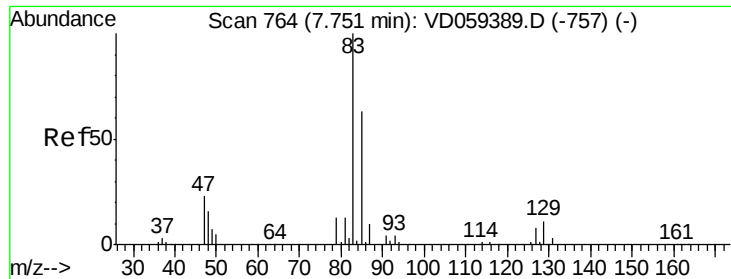


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V





#47

Bromodichloromethane

Concen: 54.53 ug/l

RT: 7.75 min Scan# 764

Delta R.T. -0.00 min

Lab File: VD059459.D

Acq: 27 Jun 2018 22:05

Instrument :

MSVOA_D

ClientSampleId :

ZER-SB-04-1-2MSD

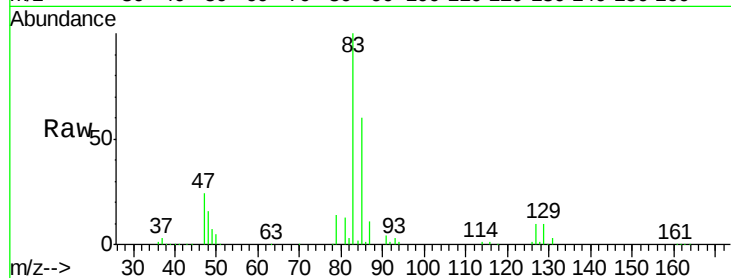
Tot Ion: 83 Resp: 495244

Ion Ratio Lower Upper

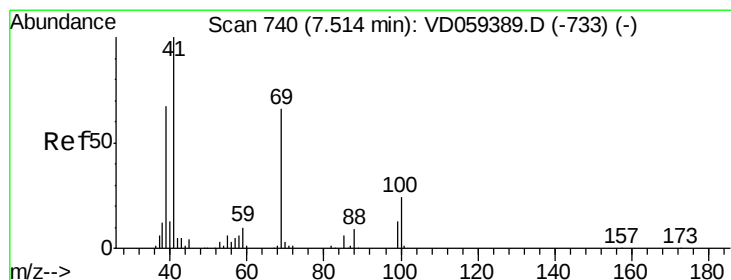
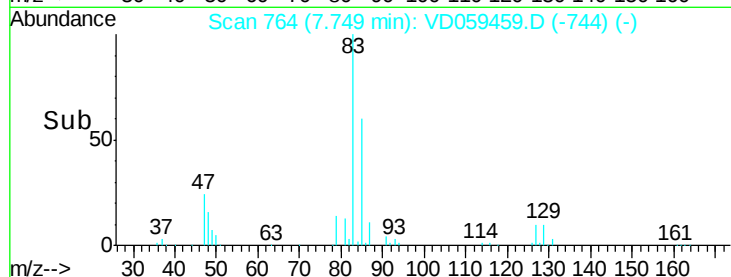
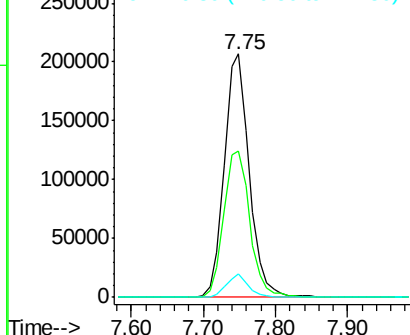
83 100

85 59.9 50.1 75.1

127 9.6 6.1 9.1#



Abundance Ion 82.85 (82.55 to 83.55): VDC
Ion 84.95 (84.65 to 85.65): VDC
Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 49.38 ug/l

RT: 7.50 min Scan# 739

Delta R.T. -0.01 min

Lab File: VD059459.D

Acq: 27 Jun 2018 22:05

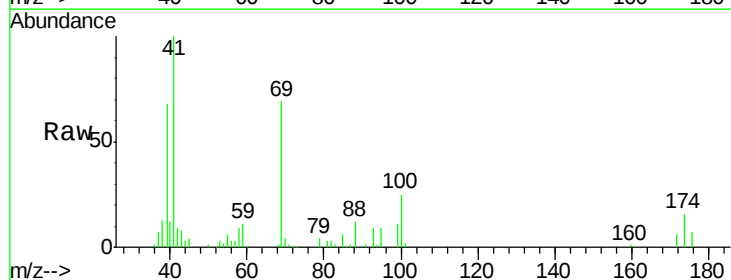
Tgt Ion: 41 Resp: 195379

Ion Ratio Lower Upper

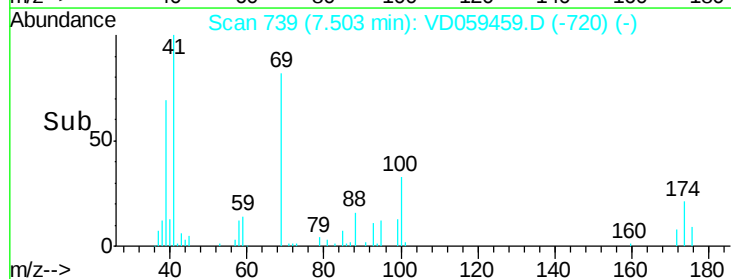
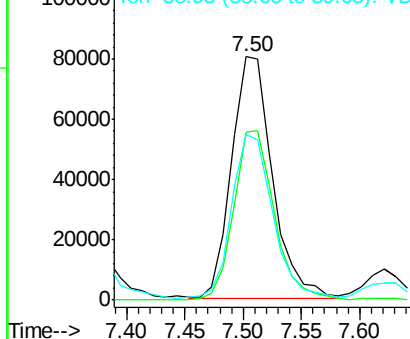
41 100

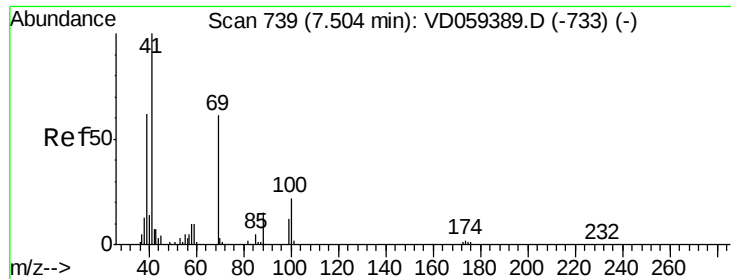
69 69.2 52.6 79.0

39 68.0 53.6 80.4



Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 38.95 (38.65 to 39.65): VDC

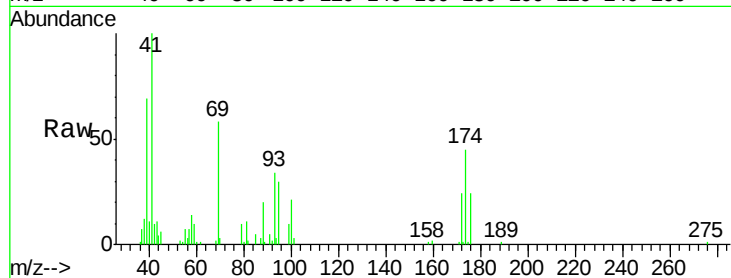




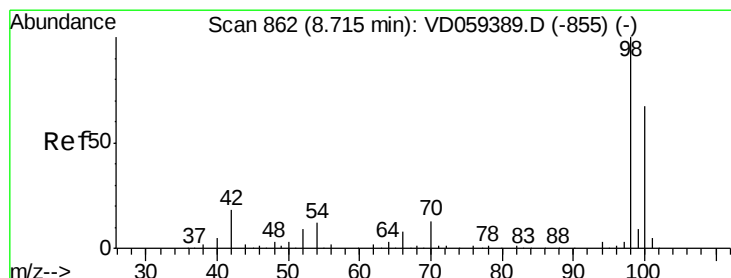
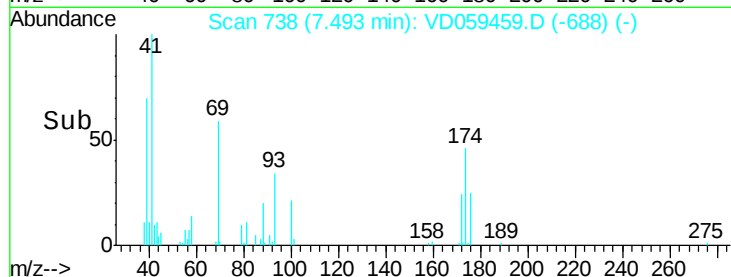
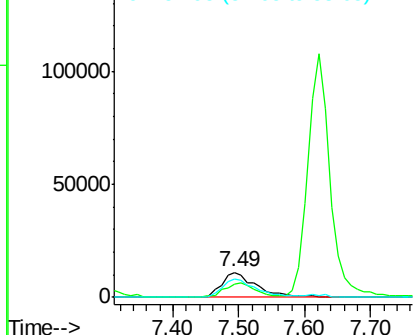
#49
1,4-Dioxane
Concen: 1020.50 ug/l
RT: 7.49 min Scan# 738
Delta R.T. -0.01 min
Lab File: VD059459.D
Acq: 27 Jun 2018 22:05

Instrument :
MSVOA_D
ClientSampleId :
ZER-SB-04-1-2MSD

Tot Ion: 88 Resp: 40497
Ion Ratio Lower Upper
88 100
43 54.3 41.0 61.4
58 71.9 53.4 80.0

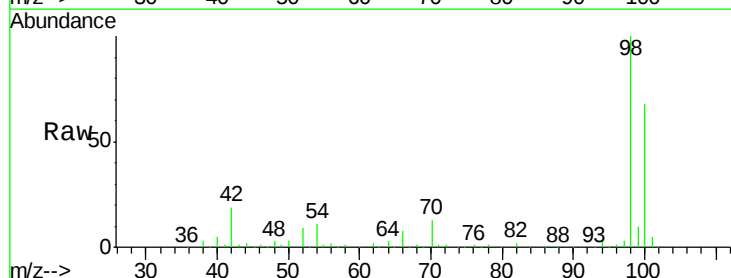


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

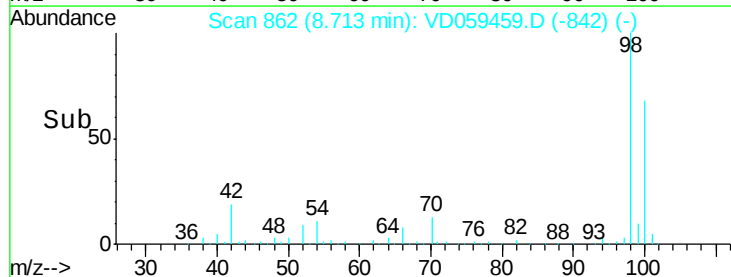
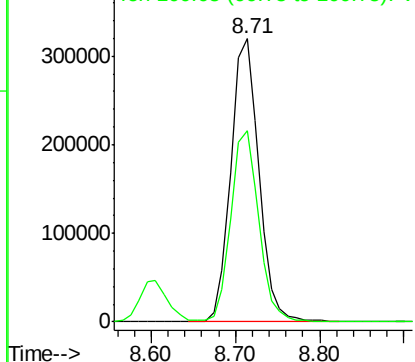


#50
Toluene-d8
Concen: 1020.50 ug/l
RT: 8.71 min Scan# 862
Delta R.T. -0.00 min
Lab File: VD059459.D
Acq: 27 Jun 2018 22:05

Tgt Ion: 98 Resp: 741761
Ion Ratio Lower Upper
98 100
100 67.6 54.4 81.6



Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC





#51

4-Methyl-2-Pentanone

Concen: 256.49 ug/l

RT: 8.61 min Scan# 851

Delta R.T. -0.00 min

Lab File: VD059459.D

Acq: 27 Jun 2018 22:05

Instrument :

MSVOA_D

ClientSampleId :

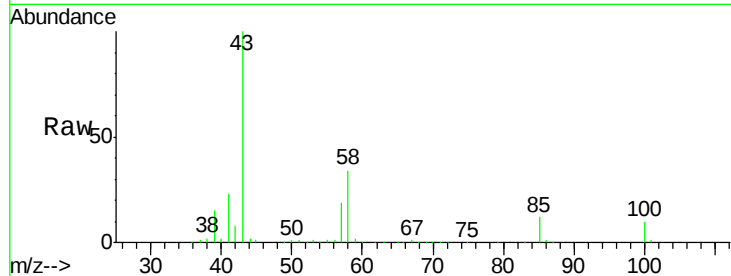
ZER-SB-04-1-2MSD

Tot Ion: 43 Resp: 1110066

Ion Ratio Lower Upper

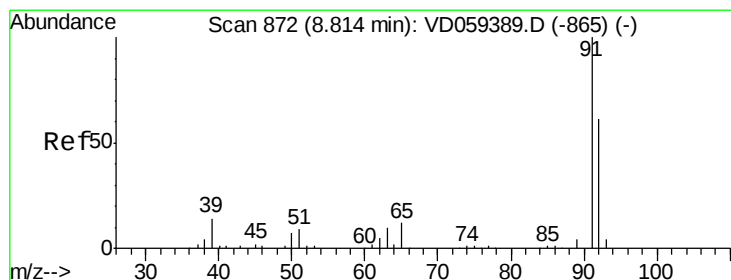
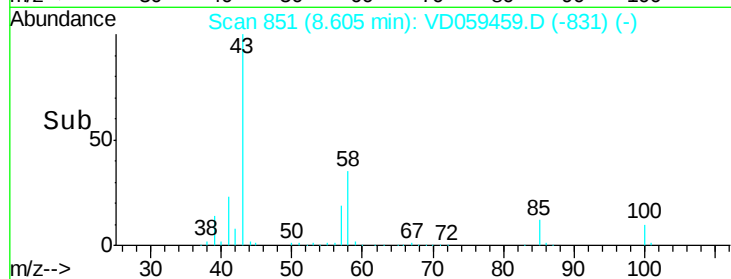
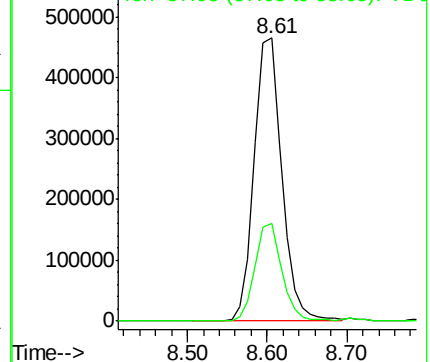
43 100

58 34.5 26.3 39.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 43.40 ug/l

RT: 8.80 min Scan# 871

Delta R.T. -0.01 min

Lab File: VD059459.D

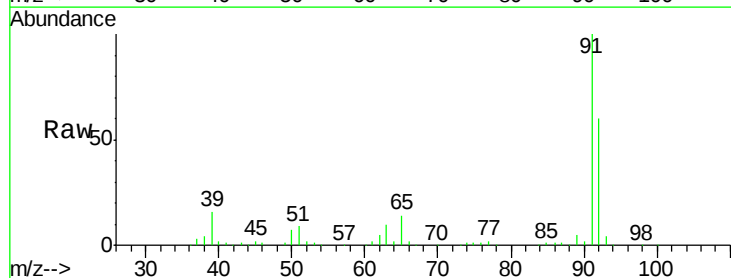
Acq: 27 Jun 2018 22:05

Tgt Ion: 92 Resp: 528280

Ion Ratio Lower Upper

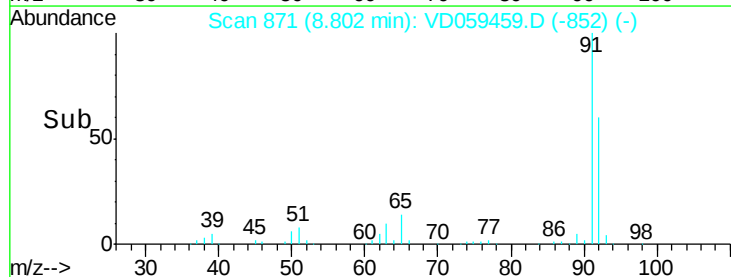
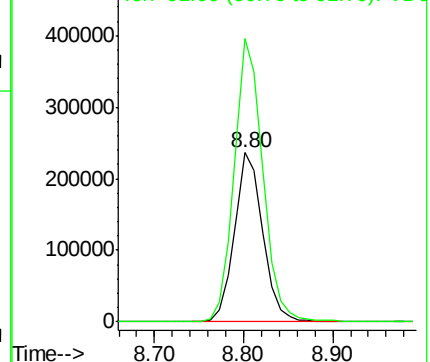
92 100

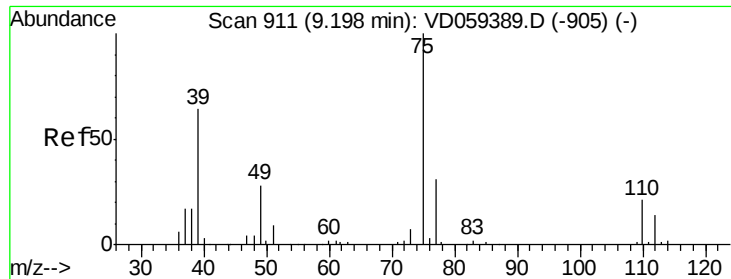
91 167.1 132.2 198.2



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





#53

t-1,3-Dichloropropene

Concen: 46.84 ug/l

RT: 9.19 min Scan# 910

Delta R.T. -0.01 min

Lab File: VD059459.D

Acq: 27 Jun 2018 22:05

Instrument :

MSVOA_D

ClientSampleId :

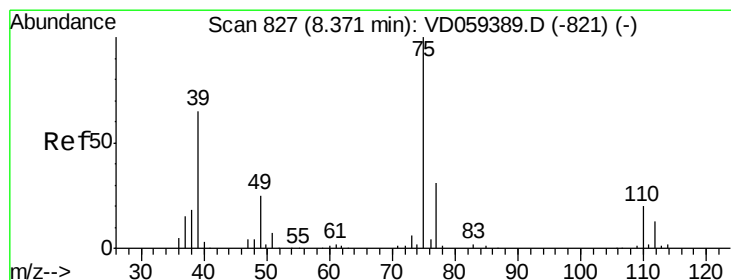
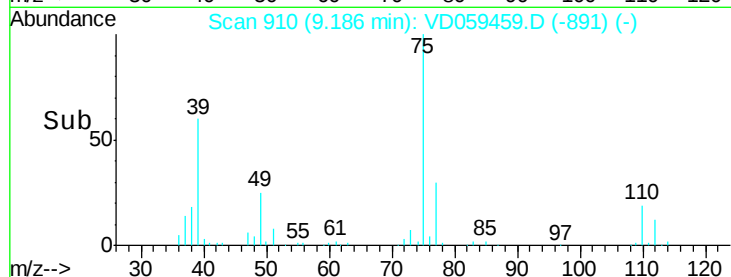
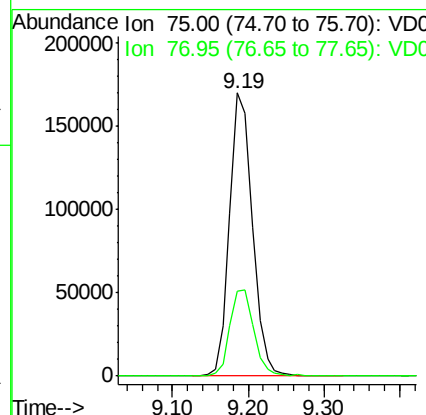
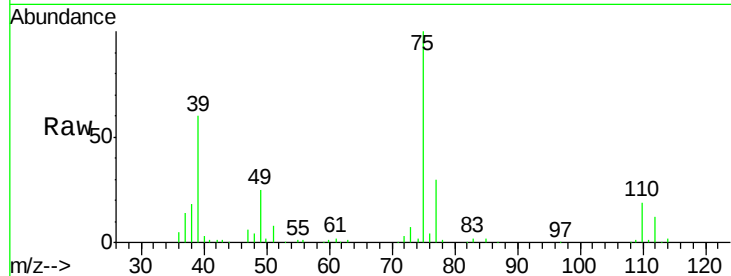
ZER-SB-04-1-2MSD

Tot Ion: 75 Resp: 355523

Ion Ratio Lower Upper

75 100

77 30.2 24.6 37.0



#54

cis-1,3-Dichloropropene

Concen: 49.47 ug/l

RT: 8.37 min Scan# 827

Delta R.T. -0.00 min

Lab File: VD059459.D

Acq: 27 Jun 2018 22:05

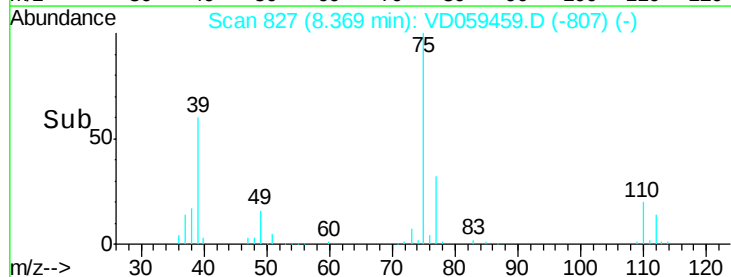
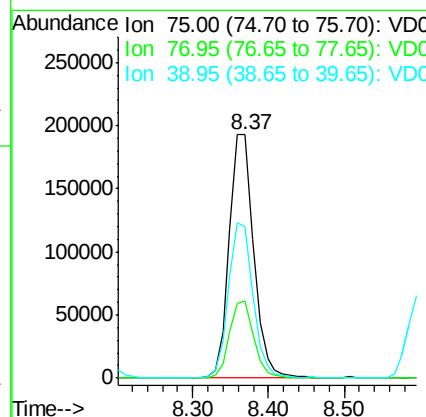
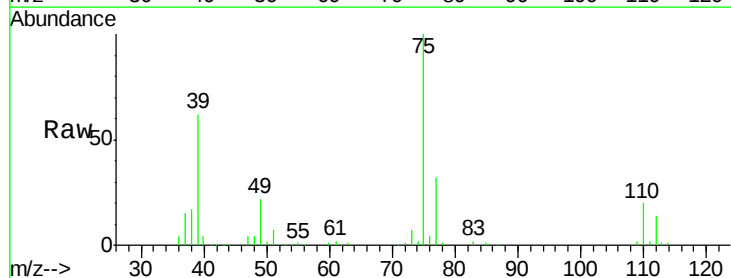
Tgt Ion: 75 Resp: 434734

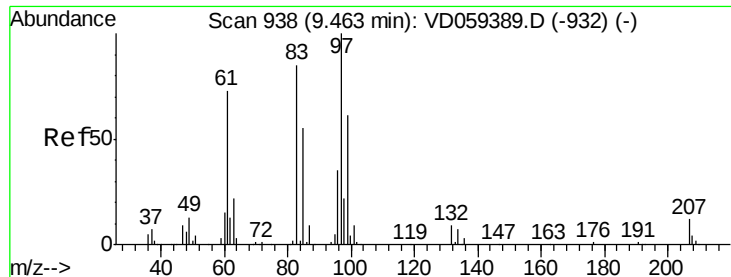
Ion Ratio Lower Upper

75 100

77 31.9 24.7 37.1

39 62.3 52.2 78.4





#55

1,1,2-Trichloroethane

Concen: 49.97 ug/l

RT: 9.46 min Scan# 938

Delta R.T. -0.00 min

Lab File: VD059459.D

Acq: 27 Jun 2018 22:05

Instrument :

MSVOA_D

ClientSampleId :

ZER-SB-04-1-2MSD

Tot Ion: 97 Resp: 220798

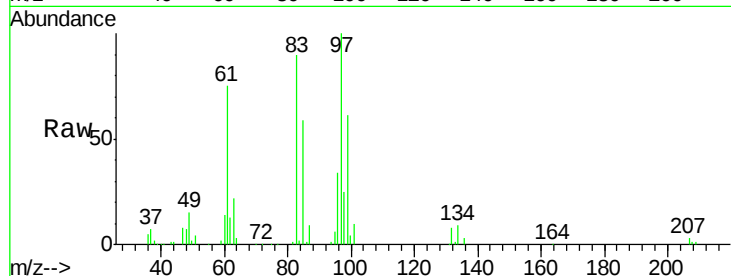
Ion Ratio Lower Upper

97 100

83 89.6 67.7 101.5

85 59.3 44.3 66.5

99 60.9 48.6 73.0

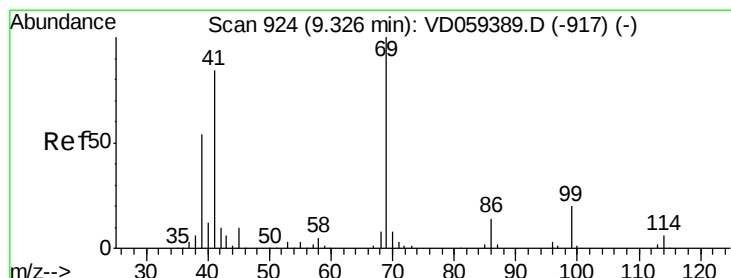
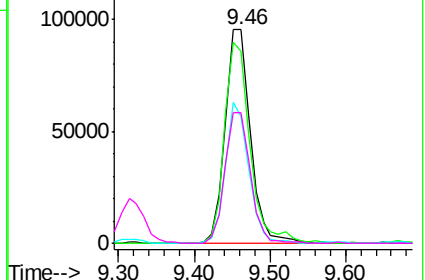
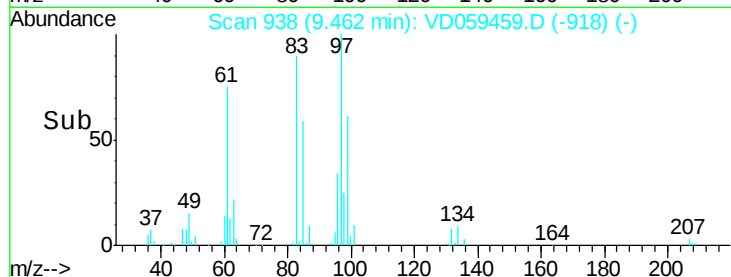


Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC



#56

Ethyl methacrylate

Concen: 47.09 ug/l

RT: 9.31 min Scan# 923

Delta R.T. -0.01 min

Lab File: VD059459.D

Acq: 27 Jun 2018 22:05

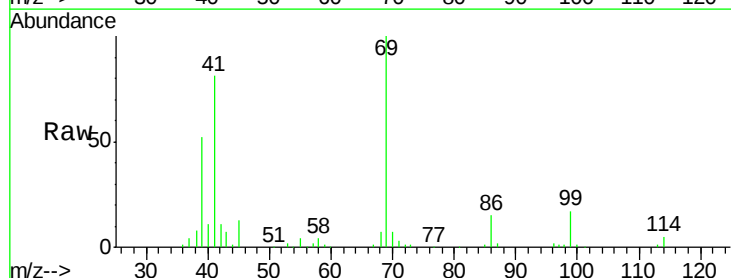
Tgt Ion: 69 Resp: 237467

Ion Ratio Lower Upper

69 100

41 81.2 67.4 101.0

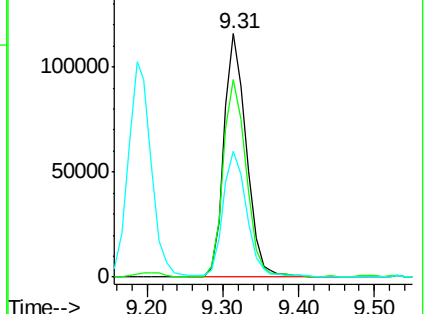
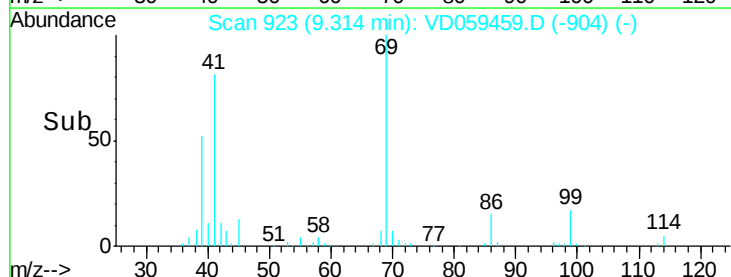
39 51.7 43.7 65.5

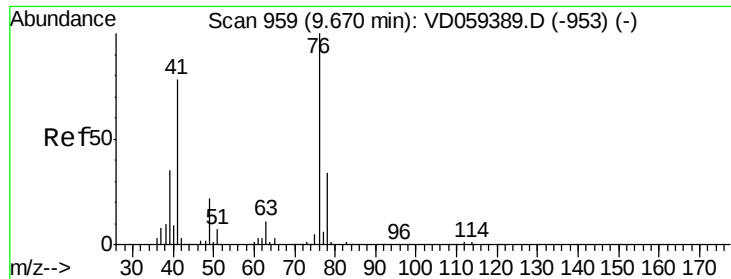


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

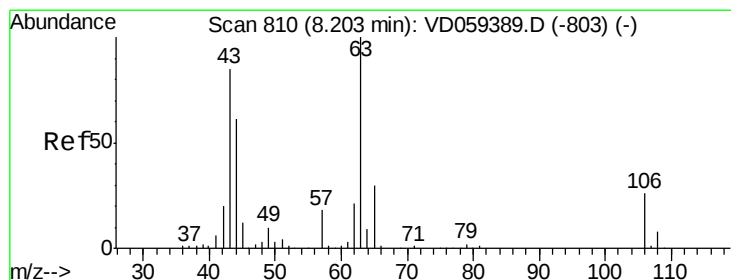
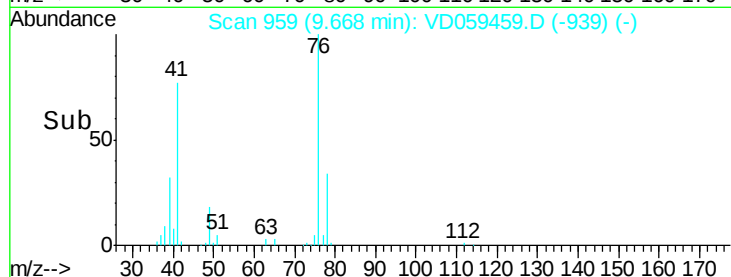
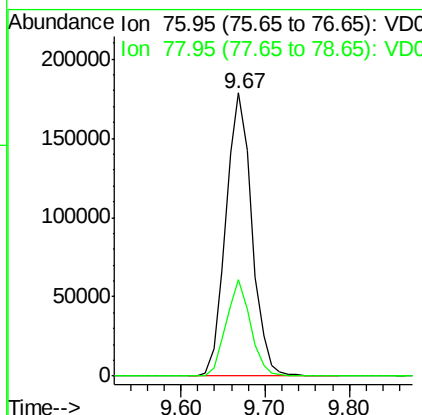
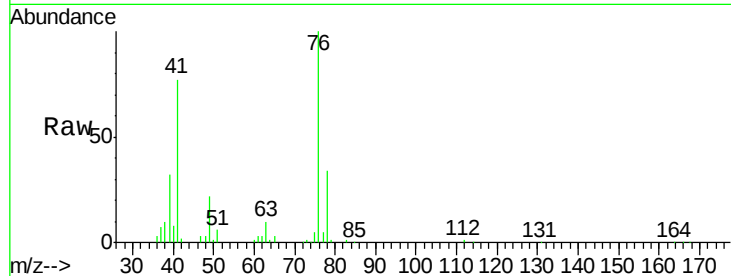




#57
 1,3-Dichloropropane
 Concen: 52.88 ug/l
 RT: 9.67 min Scan# 959
 Delta R.T. -0.00 min
 Lab File: VD059459.D
 Acq: 27 Jun 2018 22:05

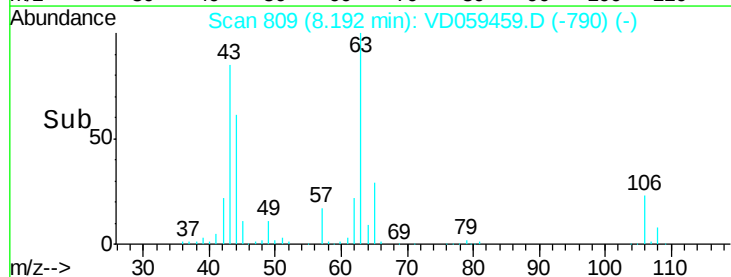
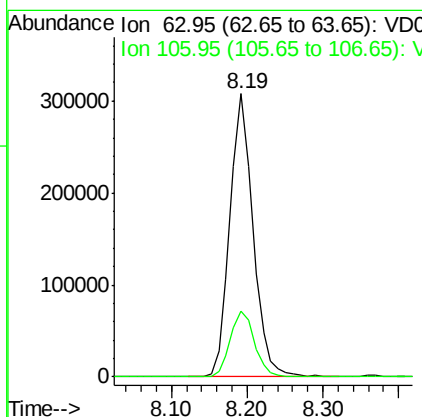
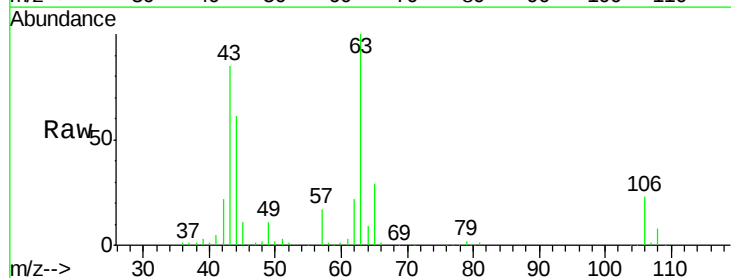
Instrument :
 MSVOA_D
 ClientSampleId :
 ZER-SB-04-1-2MSD

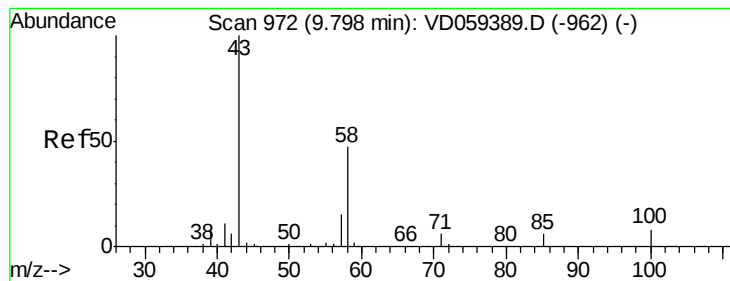
Tot Ion: 76 Resp: 382139
 Ion Ratio Lower Upper
 76 100
 78 34.2 26.8 40.2



#58
 2-Chloroethyl Vinyl ether
 Concen: 250.87 ug/l
 RT: 8.19 min Scan# 809
 Delta R.T. -0.01 min
 Lab File: VD059459.D
 Acq: 27 Jun 2018 22:05

Tgt Ion: 63 Resp: 651193
 Ion Ratio Lower Upper
 63 100
 106 23.2 20.6 31.0





#59

2-Hexanone

Concen: 266.59 ug/l

RT: 9.79 min Scan# 971

Delta R.T. -0.01 min

Lab File: VD059459.D

Acq: 27 Jun 2018 22:05

Instrument :

MSVOA_D

ClientSampleId :

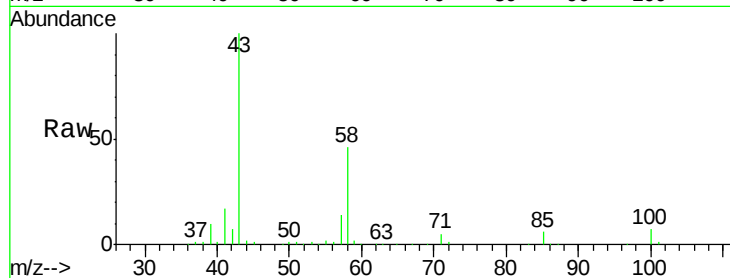
ZER-SB-04-1-2MSD

Tot Ion: 43 Resp: 820017

Ion Ratio Lower Upper

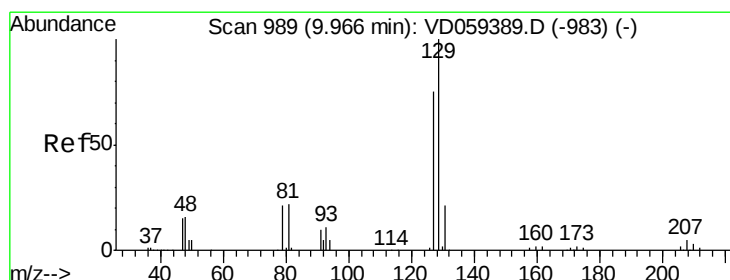
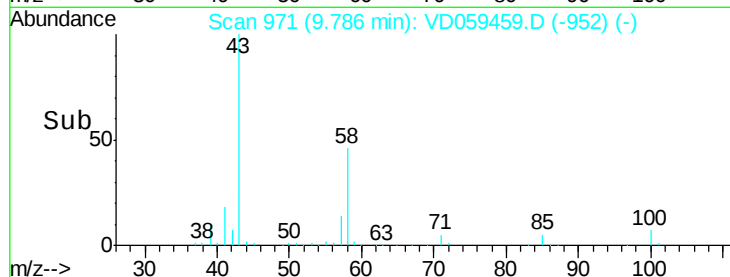
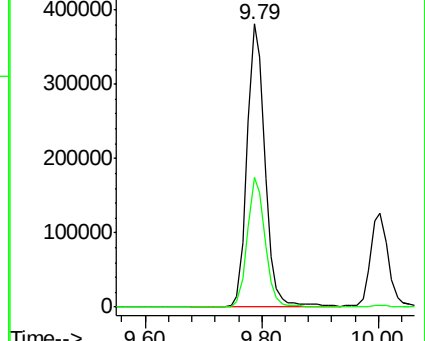
43 100

58 45.7 23.3 69.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#60

Dibromochloromethane

Concen: 50.38 ug/l

RT: 9.96 min Scan# 989

Delta R.T. -0.00 min

Lab File: VD059459.D

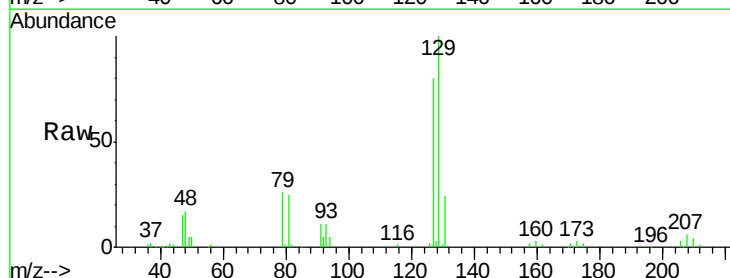
Acq: 27 Jun 2018 22:05

Tgt Ion:129 Resp: 311776

Ion Ratio Lower Upper

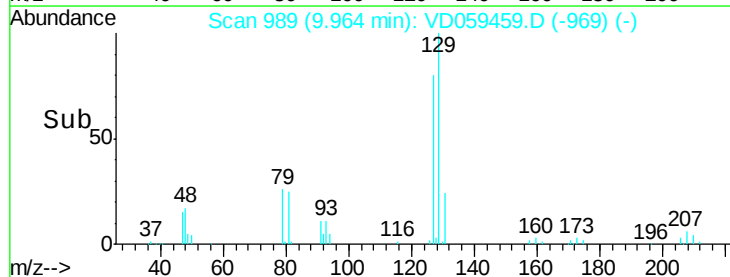
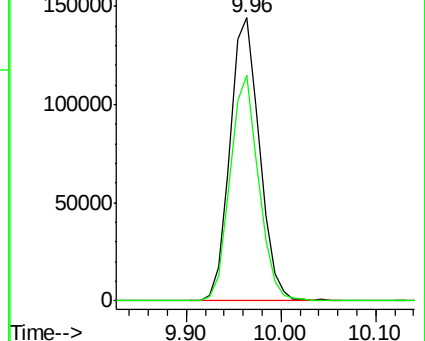
129 100

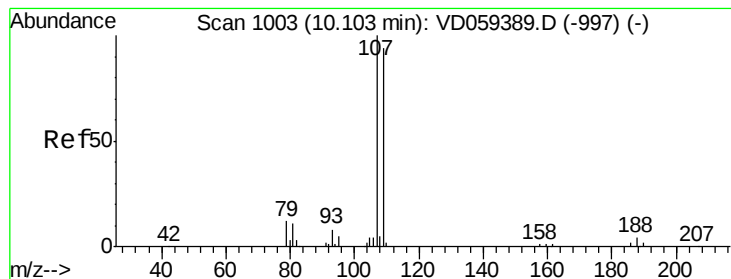
127 79.8 37.3 111.8



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#61

1,2-Dibromoethane

Concen: 47.23 ug/l

RT: 10.10 min Scan# 1003

Delta R.T. -0.00 min

Lab File: VD059459.D

Acq: 27 Jun 2018 22:05

Instrument :

MSVOA_D

ClientSampleId :

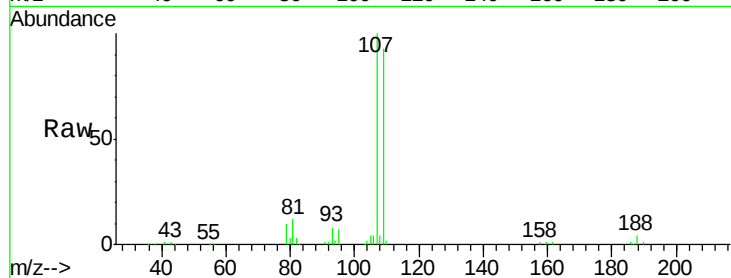
ZER-SB-04-1-2MSD

Tot Ion:107 Resp: 232391

Ion Ratio Lower Upper

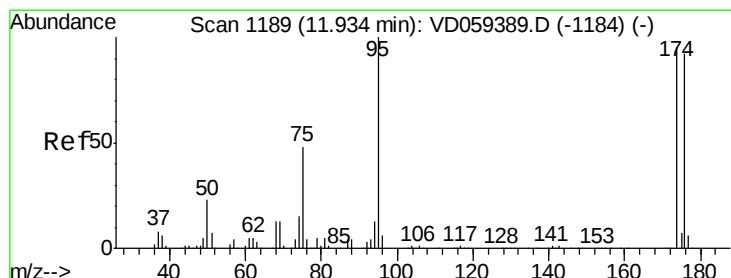
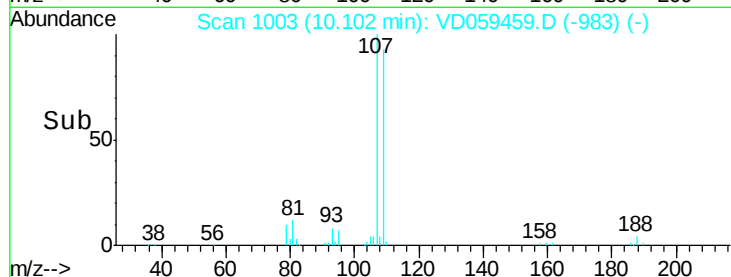
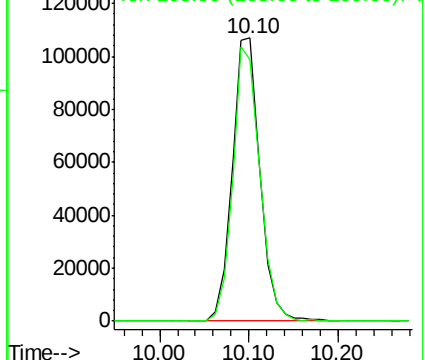
107 100

109 92.6 75.0 112.6



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V



#62

4-Bromofluorobenzene

Concen: 47.23 ug/l

RT: 11.93 min Scan# 1189

Delta R.T. -0.00 min

Lab File: VD059459.D

Acq: 27 Jun 2018 22:05

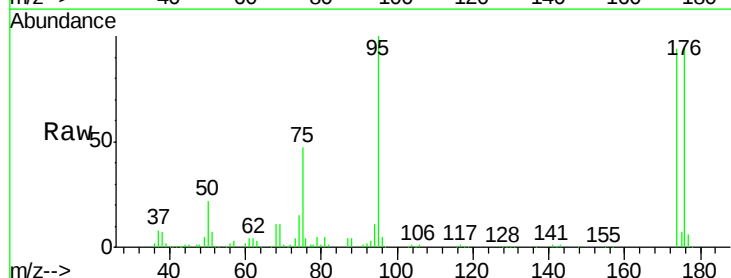
Tgt Ion: 95 Resp: 275193

Ion Ratio Lower Upper

95 100

174 94.2 0.0 190.4

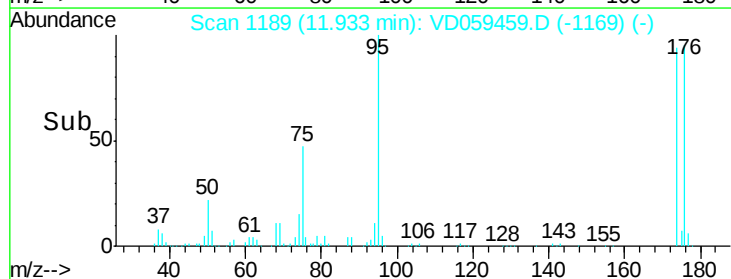
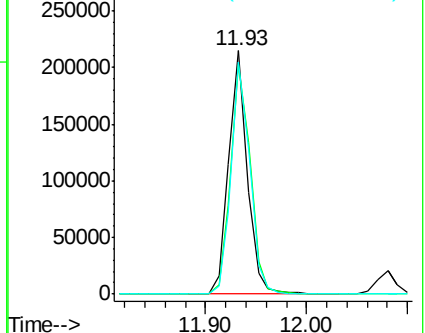
176 95.1 0.0 183.2

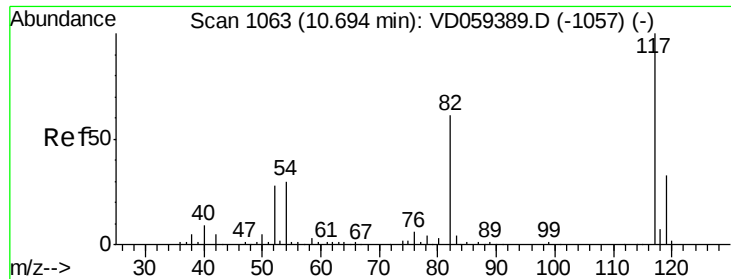


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

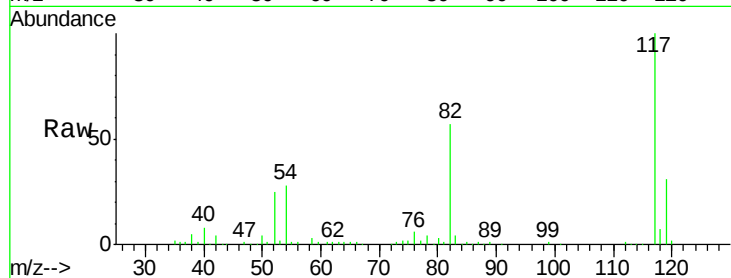




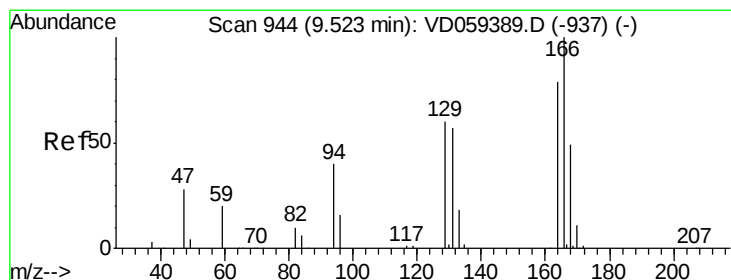
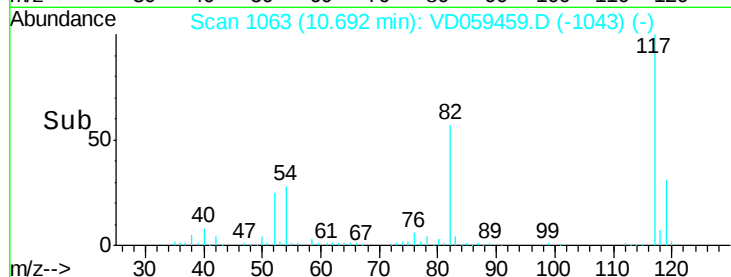
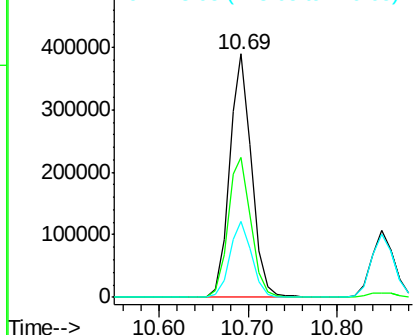
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.69 min Scan# 1063
Delta R.T. -0.00 min
Lab File: VD059459.D
Acq: 27 Jun 2018 22:05

Instrument :
MSVOA_D
ClientSampleId :
ZER-SB-04-1-2MSD

Tot Ion:117 Resp: 674275
Ion Ratio Lower Upper
117 100
82 57.4 49.0 73.6
119 31.1 26.2 39.4

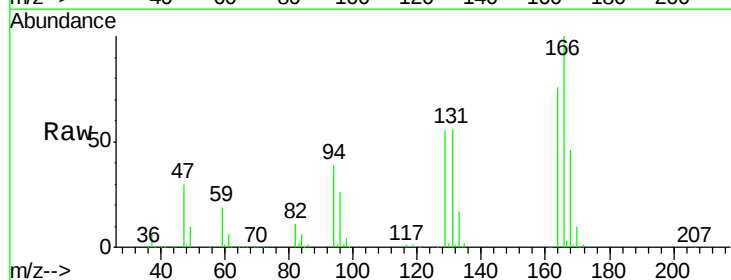


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

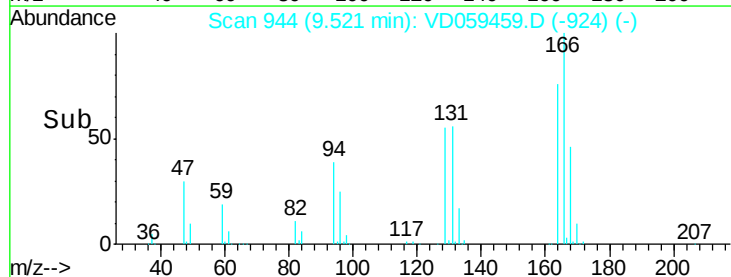
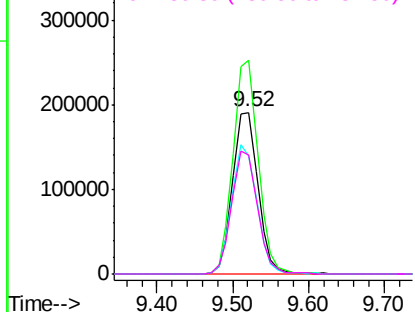


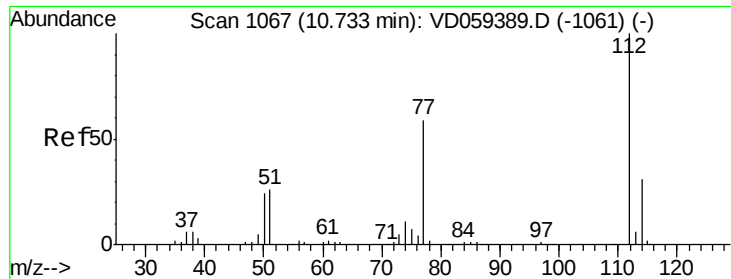
#64
Tetrachloroethene
Concen: 75.06 ug/l
RT: 9.52 min Scan# 944
Delta R.T. -0.00 min
Lab File: VD059459.D
Acq: 27 Jun 2018 22:05

Tgt Ion:164 Resp: 443966
Ion Ratio Lower Upper
164 100
166 131.9 101.4 152.2
129 72.9 60.9 91.3
131 73.5 58.2 87.4



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.85 (165.55 to 166.55): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

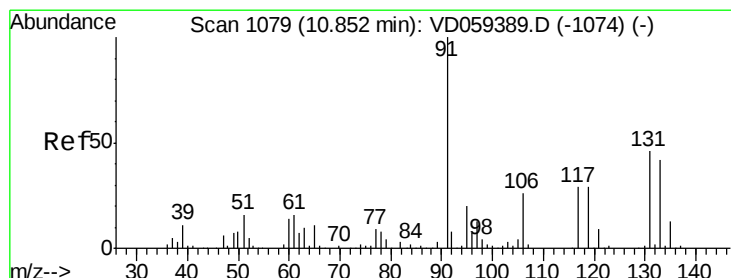
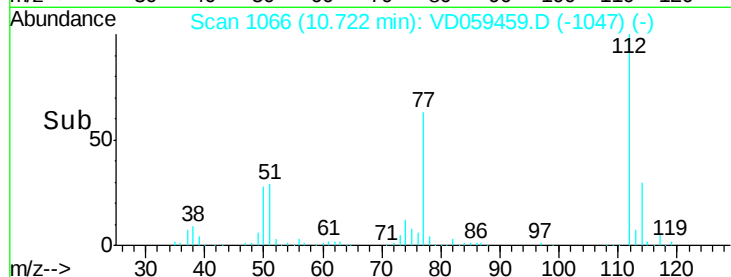
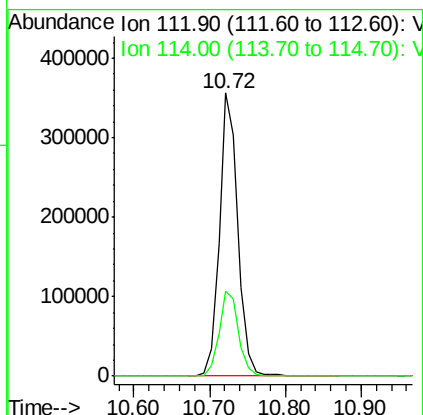
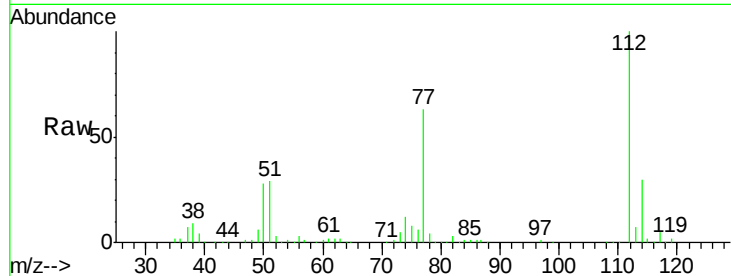




#65
Chlorobenzene
Concen: 48.94 ug/l
RT: 10.72 min Scan# 1066
Delta R.T. -0.01 min
Lab File: VD059459.D
Acq: 27 Jun 2018 22:05

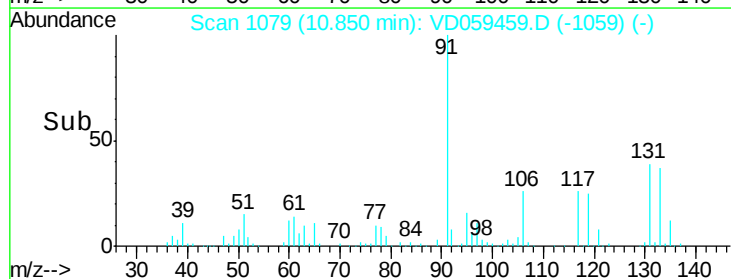
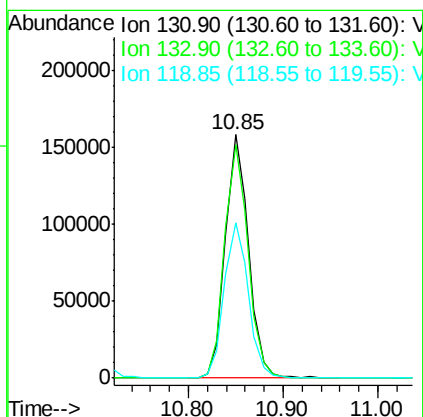
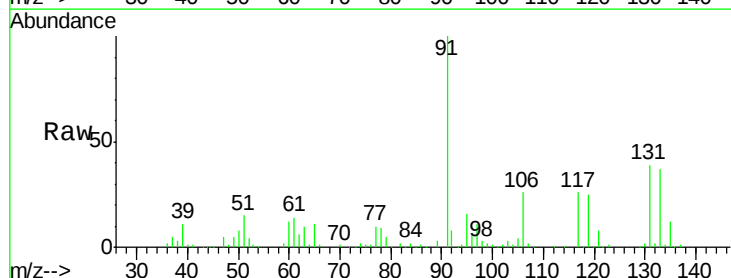
Instrument :
MSVOA_D
ClientSampleId :
ZER-SB-04-1-2MSD

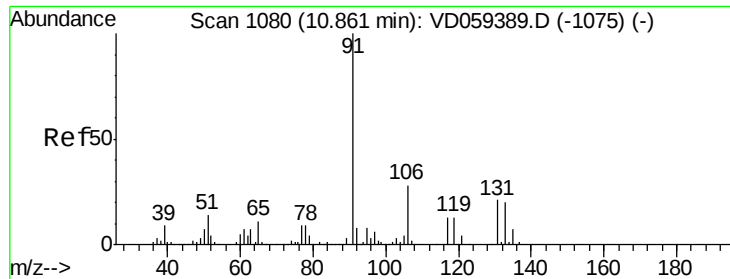
Tot Ion:112 Resp: 603382
Ion Ratio Lower Upper
112 100
114 30.0 24.6 37.0



#66
1,1,1,2-Tetrachloroethane
Concen: 56.88 ug/l
RT: 10.85 min Scan# 1079
Delta R.T. -0.00 min
Lab File: VD059459.D
Acq: 27 Jun 2018 22:05

Tgt Ion:131 Resp: 269176
Ion Ratio Lower Upper
131 100
133 95.6 45.7 137.1
119 63.6 32.3 96.9

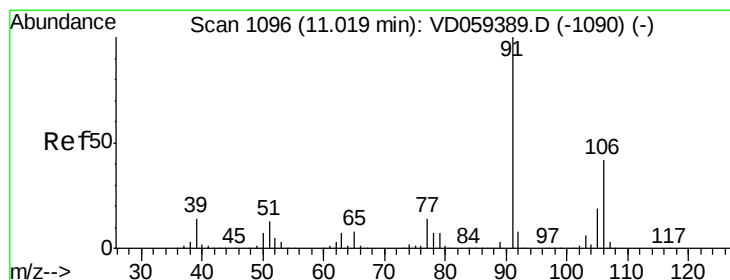
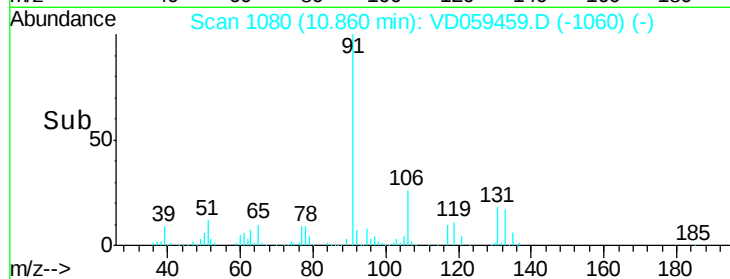
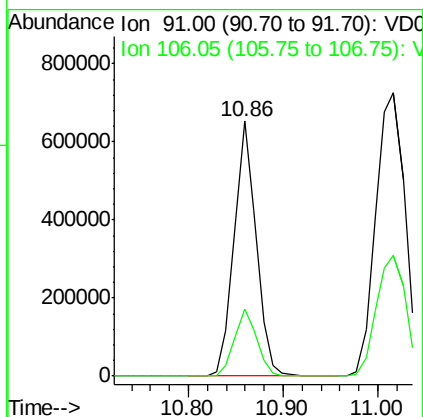
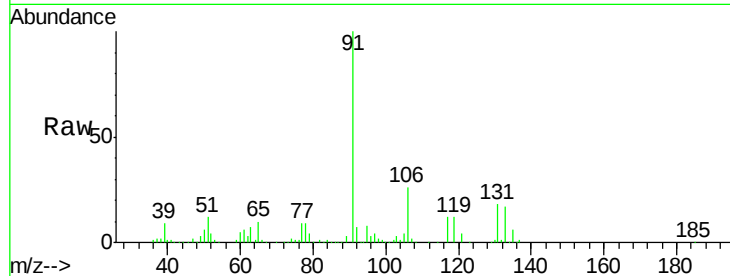




#67
Ethyl Benzene
Concen: 51.04 ug/l
RT: 10.86 min Scan# 1080
Delta R.T. -0.00 min
Lab File: VD059459.D
Acq: 27 Jun 2018 22:05

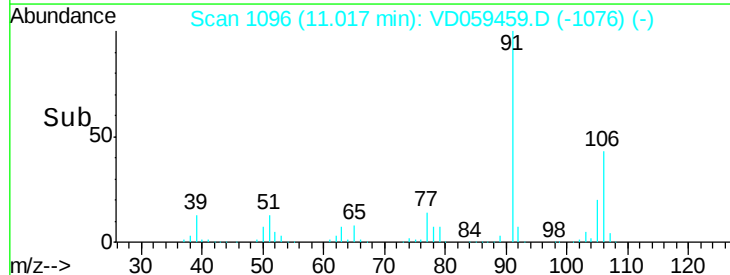
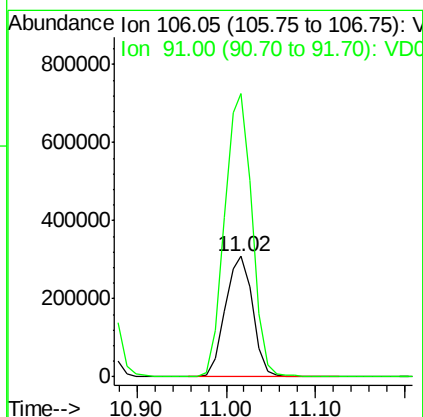
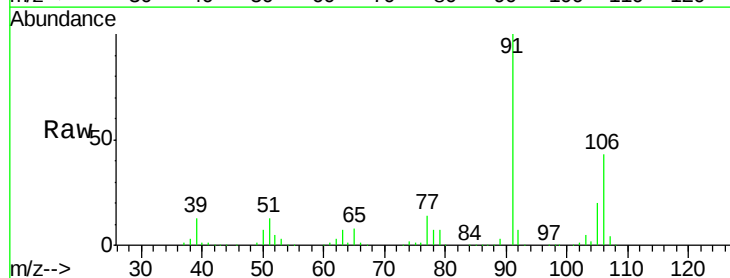
Instrument :
MSVOA_D
ClientSampleId :
ZER-SB-04-1-2MSD

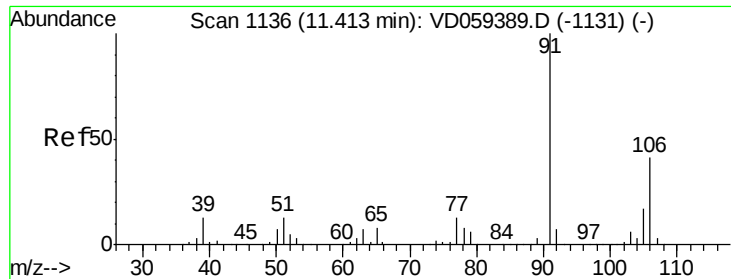
Tot Ion: 91 Resp: 1061938
Ion Ratio Lower Upper
91 100
106 26.4 22.3 33.5



#68
m/p-Xylenes
Concen: 96.76 ug/l
RT: 11.02 min Scan# 1096
Delta R.T. -0.00 min
Lab File: VD059459.D
Acq: 27 Jun 2018 22:05

Tgt Ion: 106 Resp: 667905
Ion Ratio Lower Upper
106 100
91 234.6 191.0 286.6

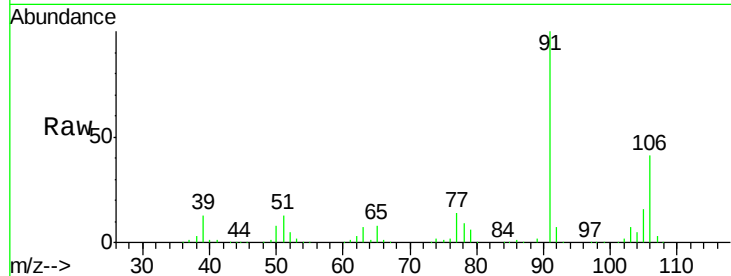




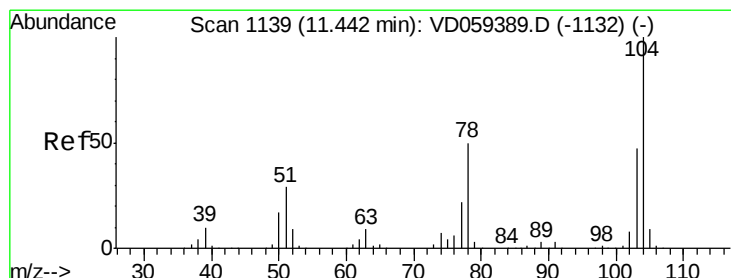
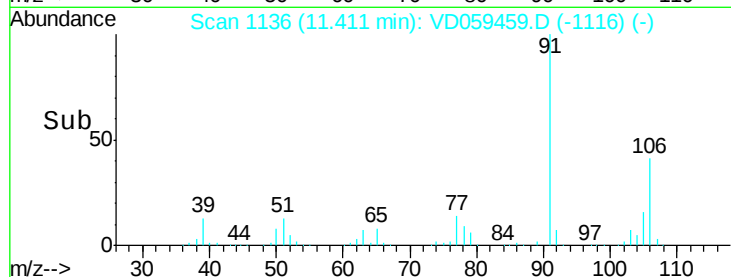
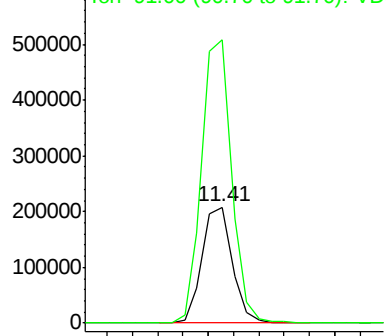
#69
o-Xylene
Concen: 50.51 ug/l
RT: 11.41 min Scan# 1136
Delta R.T. -0.00 min
Lab File: VD059459.D
Acq: 27 Jun 2018 22:05

Instrument :
MSVOA_D
ClientSampleId :
ZER-SB-04-1-2MSD

Tot Ion:106 Resp: 344715
Ion Ratio Lower Upper
106 100
91 244.1 121.0 362.8

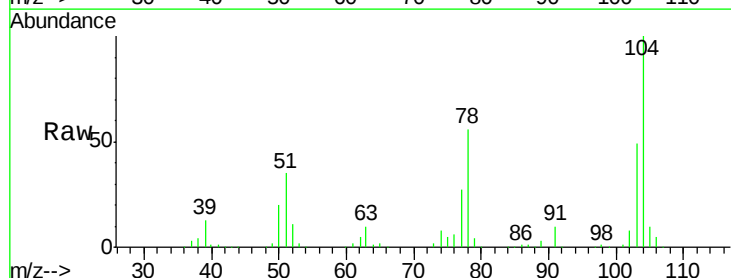


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

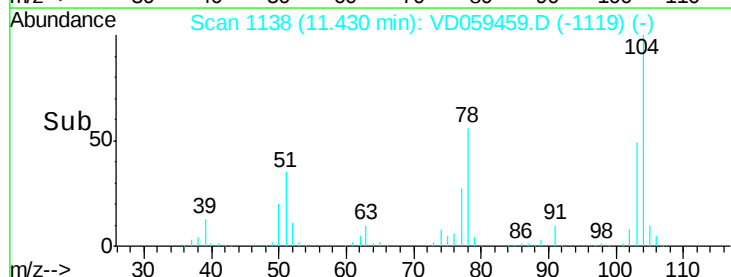
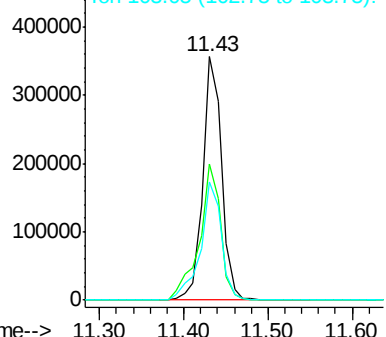


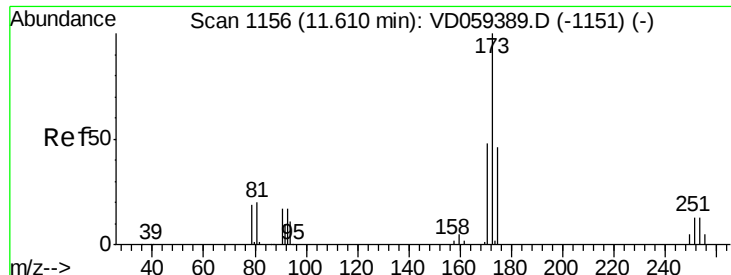
#70
Styrene
Concen: 47.07 ug/l
RT: 11.43 min Scan# 1138
Delta R.T. -0.01 min
Lab File: VD059459.D
Acq: 27 Jun 2018 22:05

Tgt Ion:104 Resp: 550582
Ion Ratio Lower Upper
104 100
78 55.8 40.2 60.4
103 48.6 37.8 56.8



Abundance Ion 104.05 (103.75 to 104.75): V
Ion 77.95 (77.65 to 78.65): VDC
Ion 103.05 (102.75 to 103.75): V

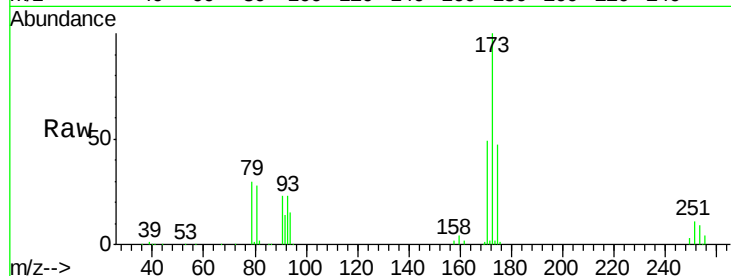




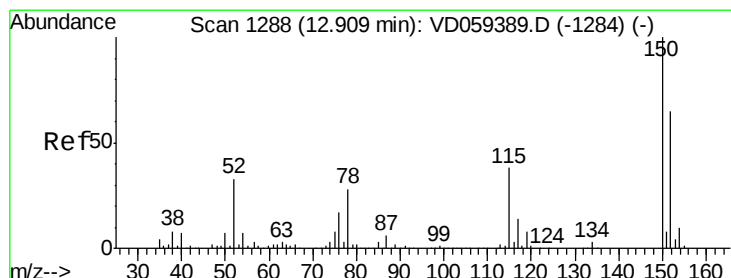
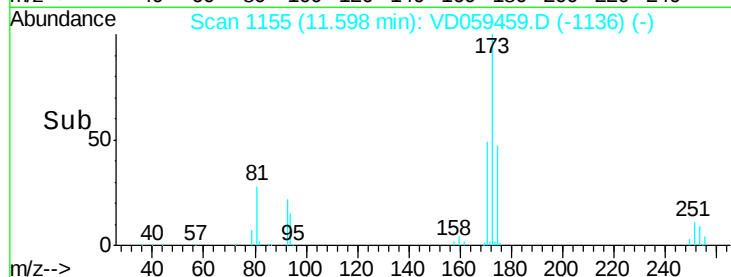
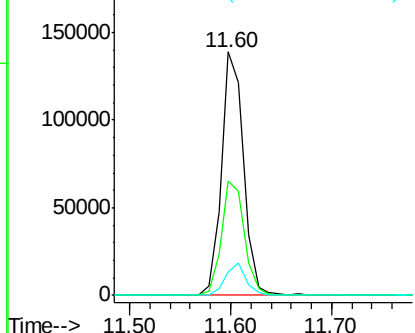
#71
Bromoform
Concen: 53.95 ug/l
RT: 11.60 min Scan# 1155
Delta R.T. -0.01 min
Lab File: VD059459.D
Acq: 27 Jun 2018 22:05

Instrument :
MSVOA_D
ClientSampleId :
ZER-SB-04-1-2MSD

Tot Ion:173 Resp: 211516
Ion Ratio Lower Upper
173 100
175 47.2 22.8 68.4
254 9.5 10.1 15.1#

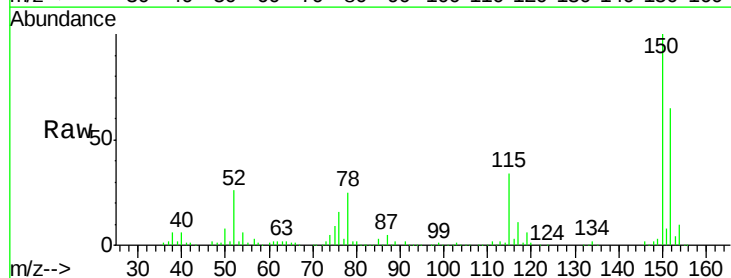


Abundance Ion 172.80 (172.50 to 173.50): V
Ion 174.80 (174.50 to 175.50): V
Ion 253.70 (253.40 to 254.40): V

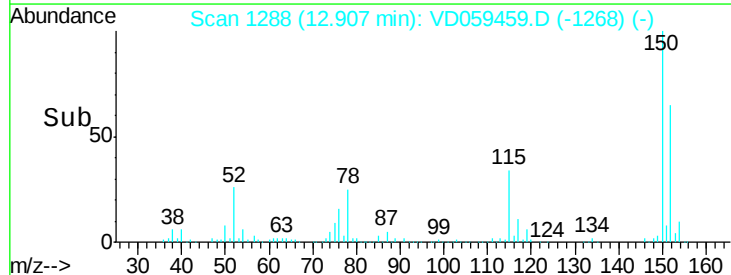
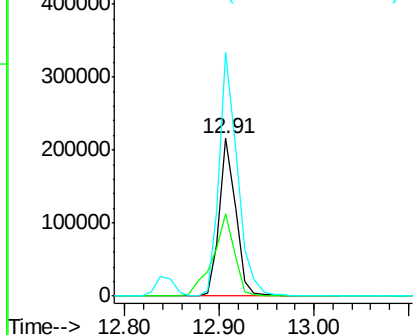


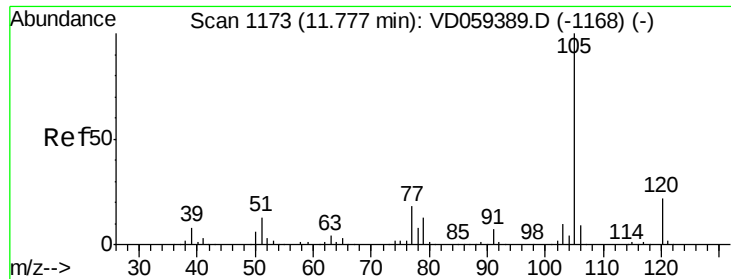
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.91 min Scan# 1288
Delta R.T. -0.00 min
Lab File: VD059459.D
Acq: 27 Jun 2018 22:05

Tgt Ion:152 Resp: 261148
Ion Ratio Lower Upper
152 100
115 51.9 29.4 88.3
150 154.4 0.0 308.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 58.14 ug/l

RT: 11.78 min Scan# 1173

Delta R.T. -0.00 min

Lab File: VD059459.D

Acq: 27 Jun 2018 22:05

Instrument :

MSVOA_D

ClientSampleId :

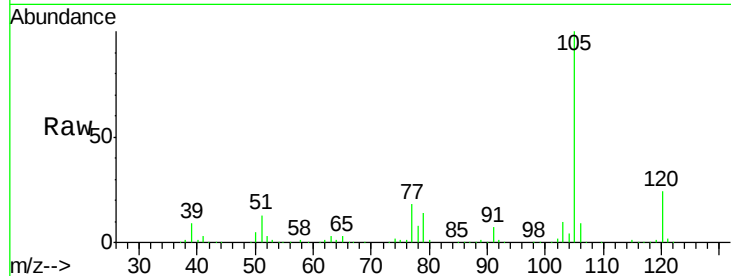
ZER-SB-04-1-2MSD

Tot Ion:105 Resp: 856740

Ion Ratio Lower Upper

105 100

120 23.9 11.0 33.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

11.78

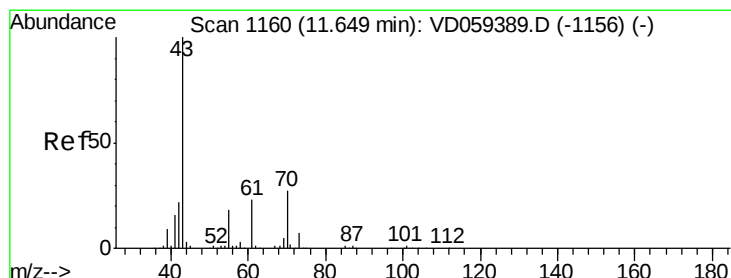
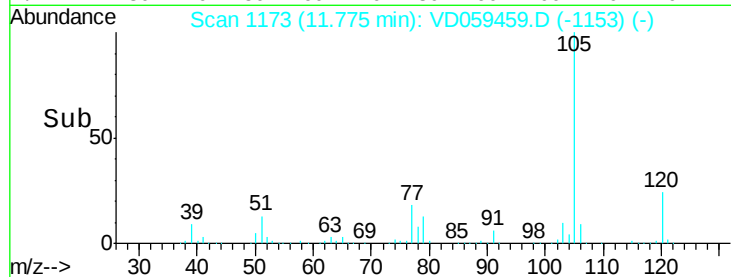
600000

400000

200000

0

Time-->



#74

N-ethyl acetate

Concen: 46.24 ug/l

RT: 11.65 min Scan# 1160

Delta R.T. -0.00 min

Lab File: VD059459.D

Acq: 27 Jun 2018 22:05

Tgt Ion: 43 Resp: 259238

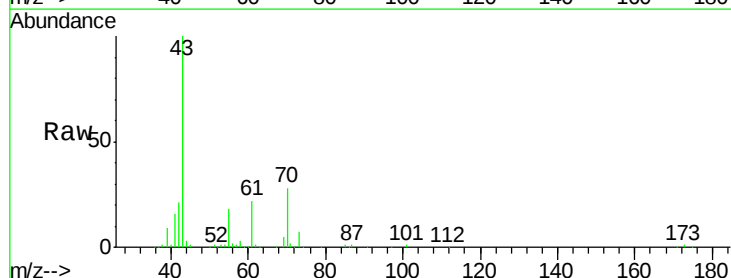
Ion Ratio Lower Upper

43 100

70 28.3 21.7 32.5

55 18.5 14.6 22.0

61 22.1 18.0 27.0



Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V

11.65

300000

250000

200000

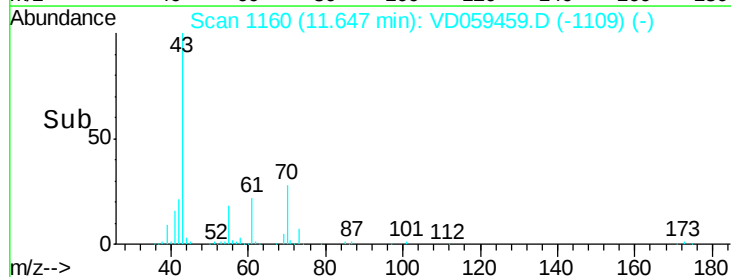
150000

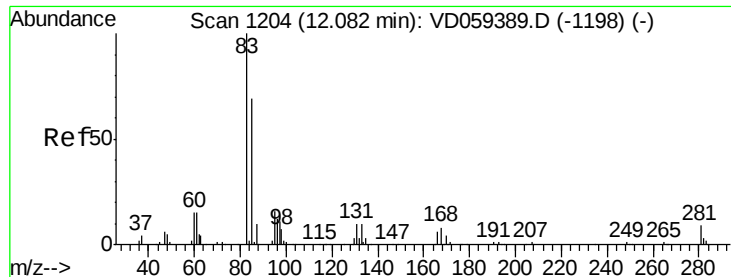
100000

50000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 55.00 ug/l

RT: 12.08 min Scan# 1204

Delta R.T. -0.00 min

Lab File: VD059459.D

Acq: 27 Jun 2018 22:05

Instrument :

MSVOA_D

ClientSampleId :

ZER-SB-04-1-2MSD

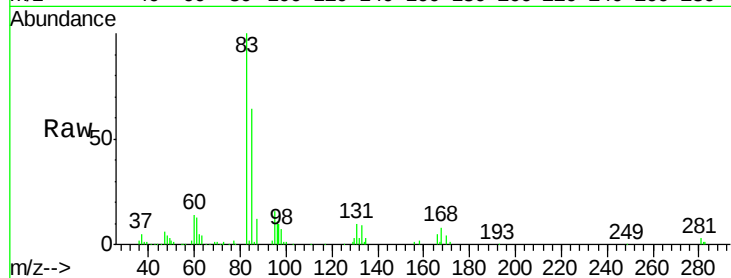
Tot Ion: 83 Resp: 190157

Ion	Ratio	Lower	Upper
83	100		
131	10.3	4.9	14.6
85	64.3	34.6	103.8

83 100

131 10.3 4.9 14.6

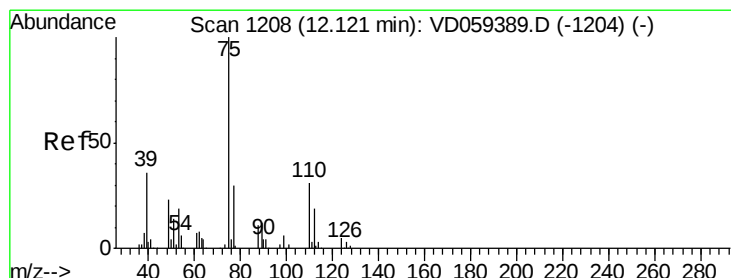
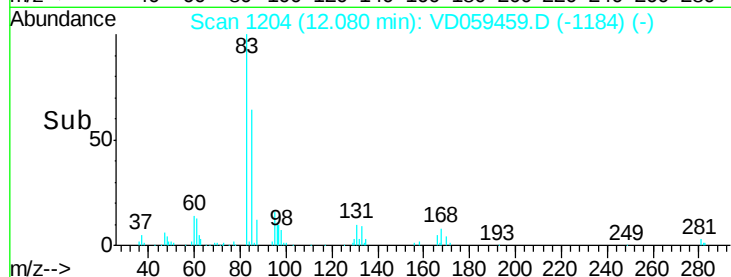
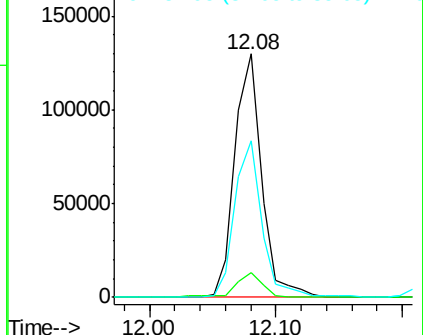
85 64.3 34.6 103.8



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 73.36 ug/l

RT: 12.11 min Scan# 1207

Delta R.T. -0.01 min

Lab File: VD059459.D

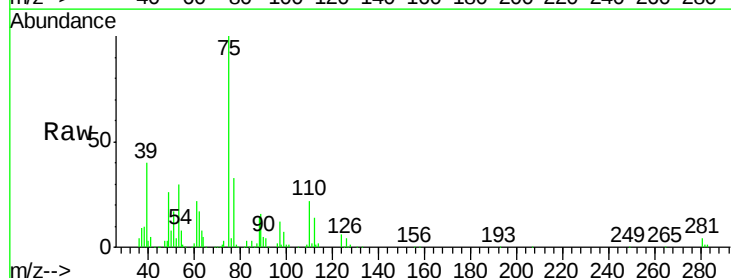
Acq: 27 Jun 2018 22:05

Tgt Ion: 75 Resp: 264239

Ion	Ratio	Lower	Upper
75	100		
77	32.7	15.6	46.8

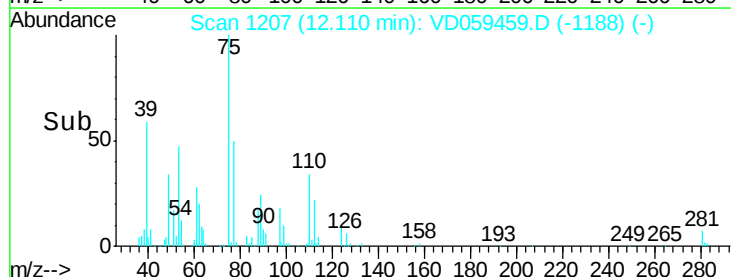
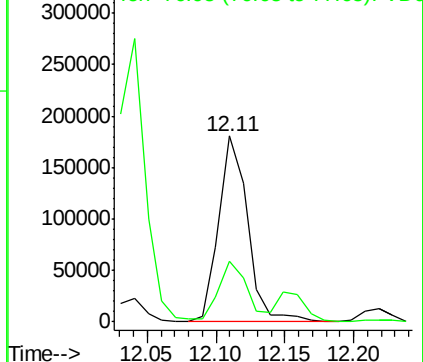
75 100

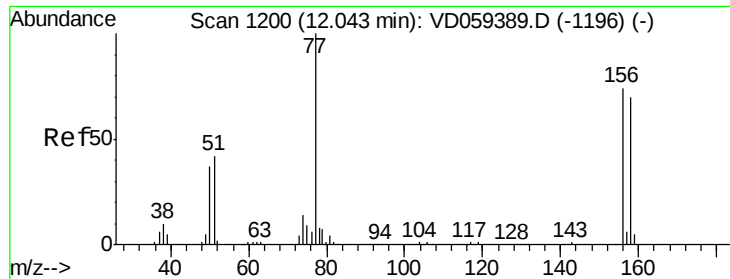
77 32.7 15.6 46.8



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 60.05 ug/l

RT: 12.04 min Scan# 1200

Delta R.T. -0.00 min

Lab File: VD059459.D

Acq: 27 Jun 2018 22:05

Instrument :

MSVOA_D

ClientSampleId :

ZER-SB-04-1-2MSD

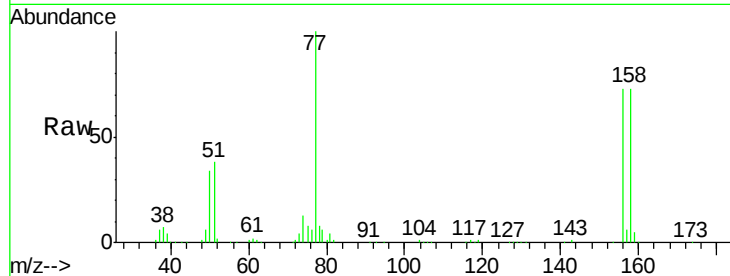
Tot Ion:156 Resp: 278552

Ion Ratio Lower Upper

156 100

77 136.2 68.0 203.8

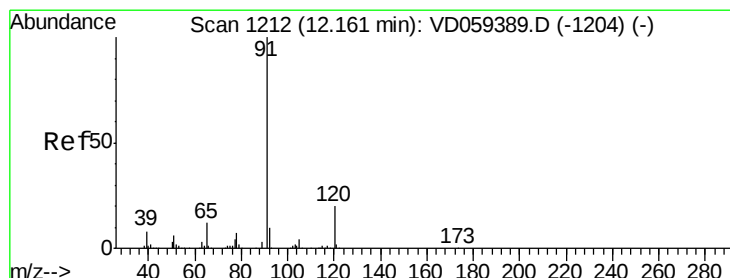
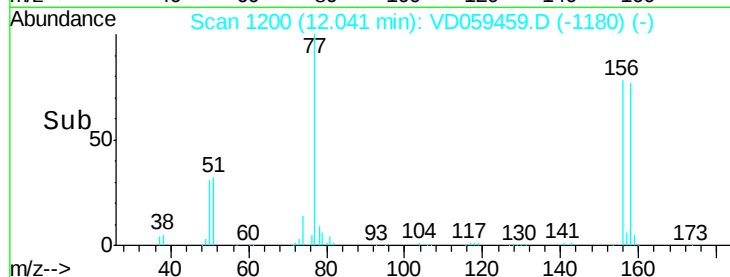
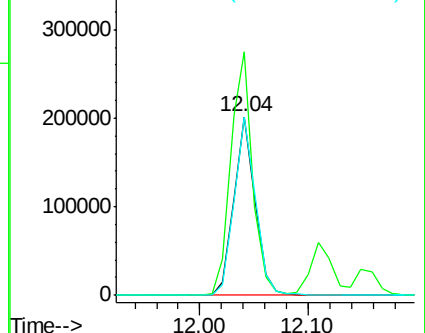
158 99.6 47.7 143.1



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): VDC

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 54.40 ug/l

RT: 12.16 min Scan# 1212

Delta R.T. -0.00 min

Lab File: VD059459.D

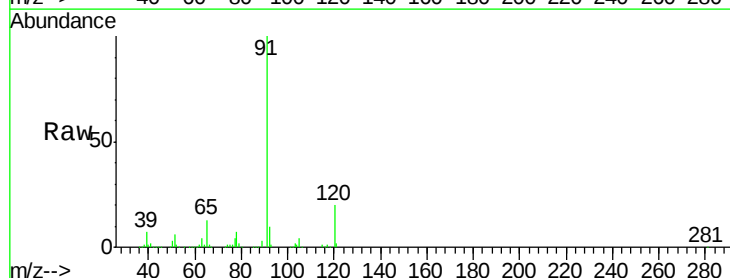
Acq: 27 Jun 2018 22:05

Tgt Ion: 91 Resp: 1015353

Ion Ratio Lower Upper

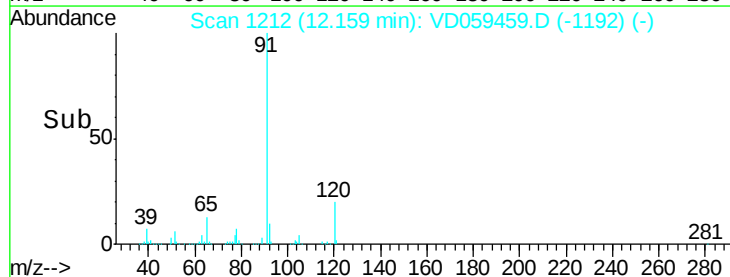
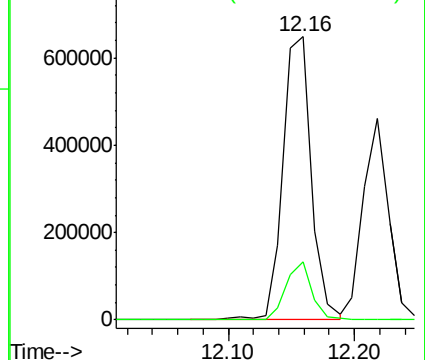
91 100

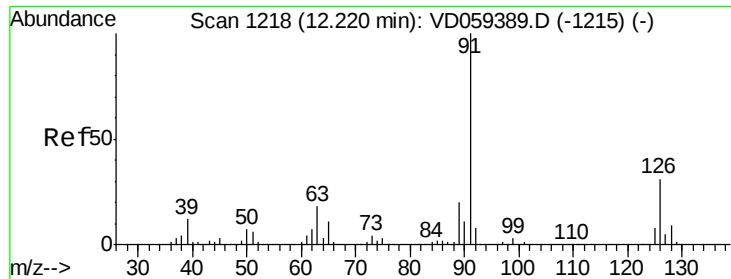
120 20.3 10.0 29.8



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.05 (119.75 to 120.75): V

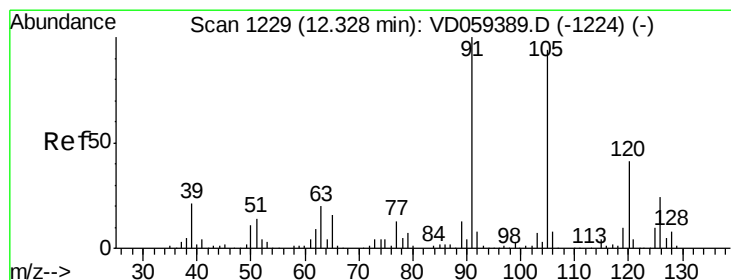
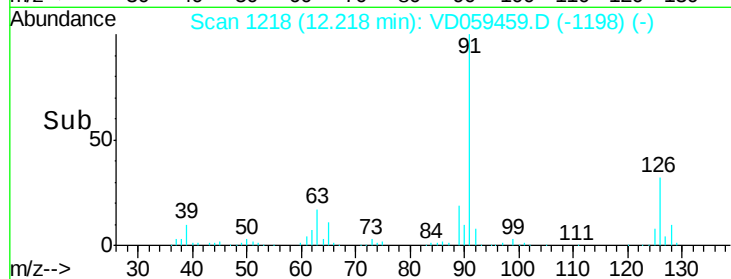
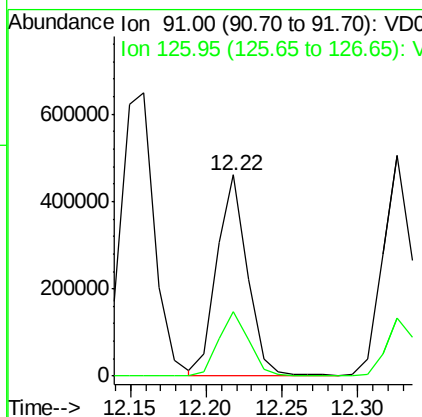
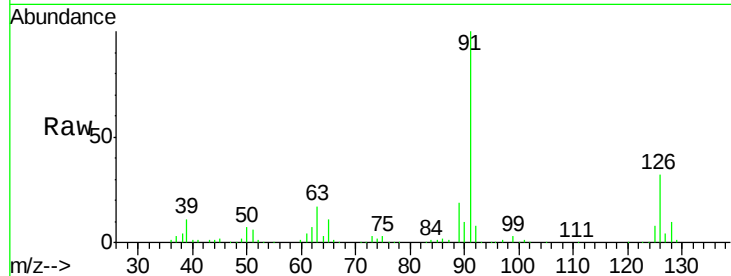




#79
 2-Chlorotoluene
 Concen: 59.03 ug/l
 RT: 12.22 min Scan# 1218
 Delta R.T. -0.00 min
 Lab File: VD059459.D
 Acq: 27 Jun 2018 22:05

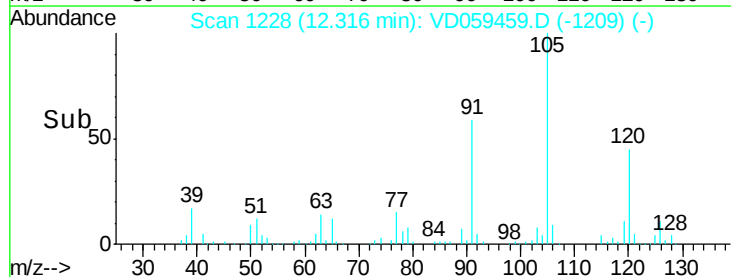
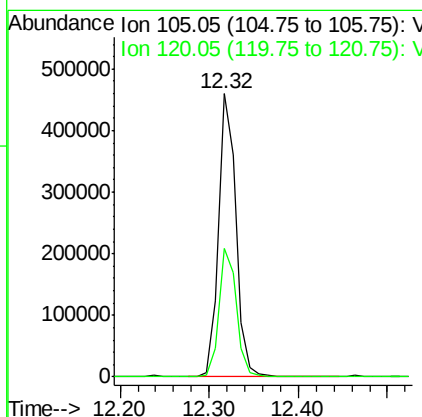
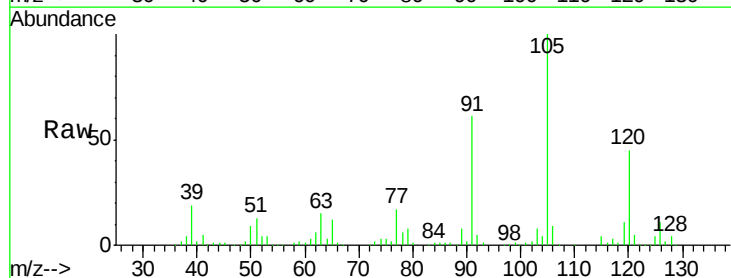
Instrument :
 MSVOA_D
 ClientSampleId :
 ZER-SB-04-1-2MSD

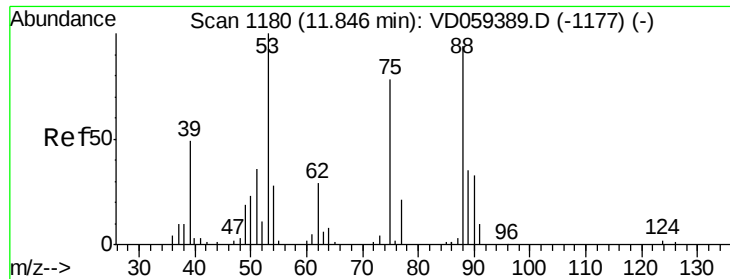
Tot Ion: 91 Resp: 647040
 Ion Ratio Lower Upper
 91 100
 126 32.0 15.2 45.5



#80
 1,3,5-Trimethylbenzene
 Concen: 53.59 ug/l
 RT: 12.32 min Scan# 1228
 Delta R.T. -0.01 min
 Lab File: VD059459.D
 Acq: 27 Jun 2018 22:05

Tgt Ion: 105 Resp: 628669
 Ion Ratio Lower Upper
 105 100
 120 45.4 21.9 65.7





#81

trans-1,4-Dichloro-2-butene

Concen: 69.58 ug/l

RT: 11.84 min Scan# 1180

Delta R.T. -0.00 min

Lab File: VD059459.D

Acq: 27 Jun 2018 22:05

Instrument :

MSVOA_D

ClientSampleId :

ZER-SB-04-1-2MSD

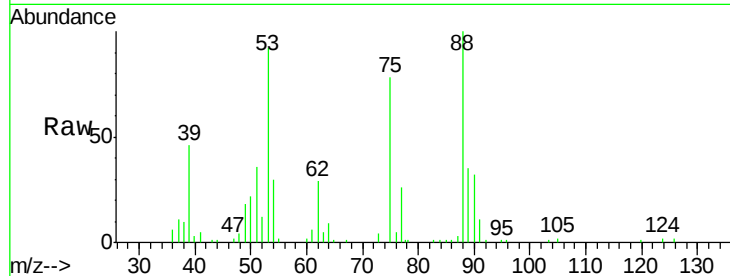
Tot Ion: 75 Resp: 56971

Ion Ratio Lower Upper

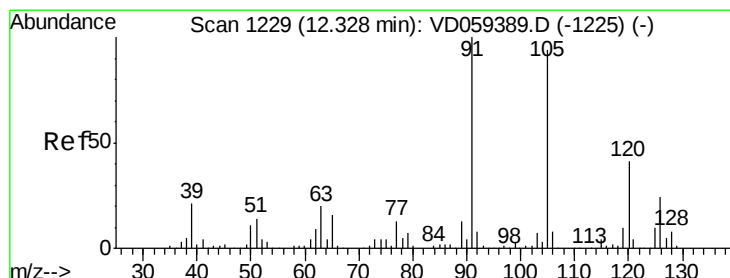
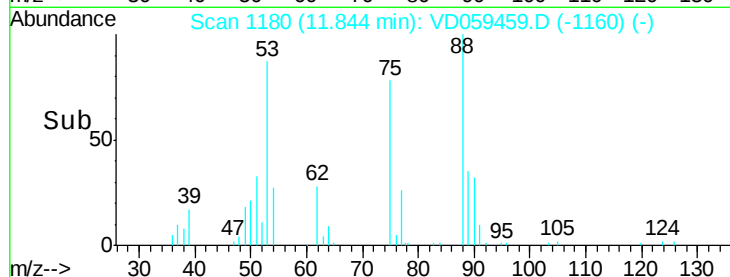
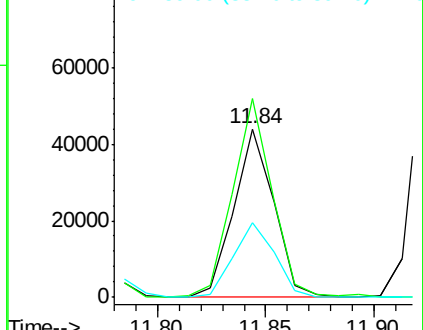
75 100

53 118.2 102.6 154.0

89 44.2 35.9 53.9



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 89.00 (88.70 to 89.70): VDC



#82

4-Chlorotoluene

Concen: 54.89 ug/l

RT: 12.33 min Scan# 1229

Delta R.T. -0.00 min

Lab File: VD059459.D

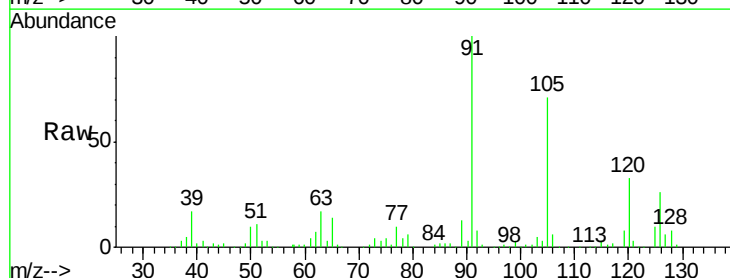
Acq: 27 Jun 2018 22:05

Tgt Ion: 91 Resp: 682248

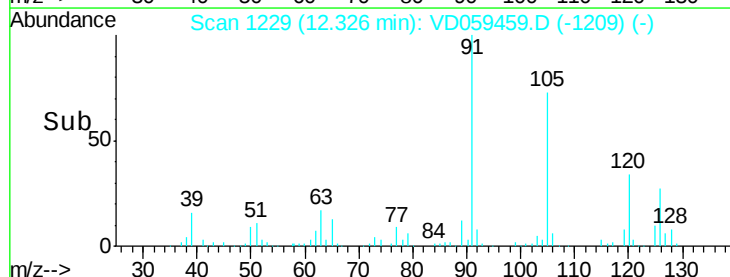
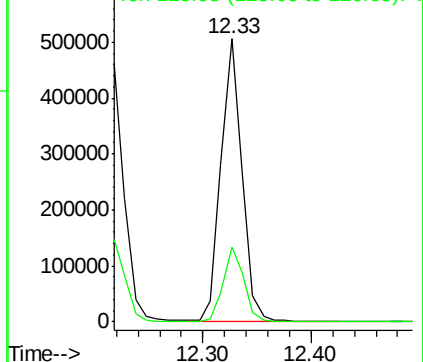
Ion Ratio Lower Upper

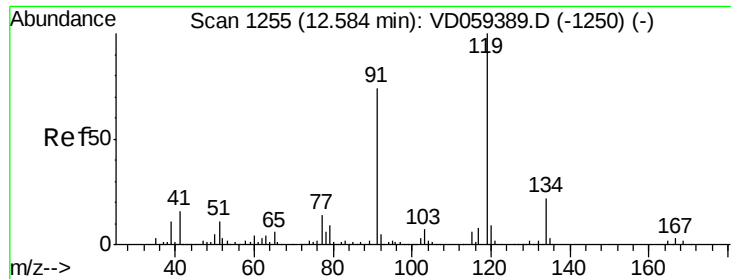
91 100

126 26.3 12.2 36.6



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 125.95 (125.65 to 126.65): V

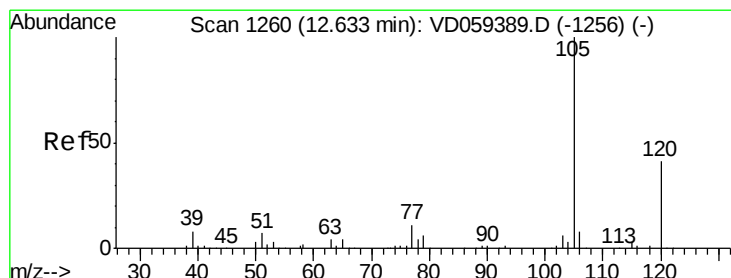
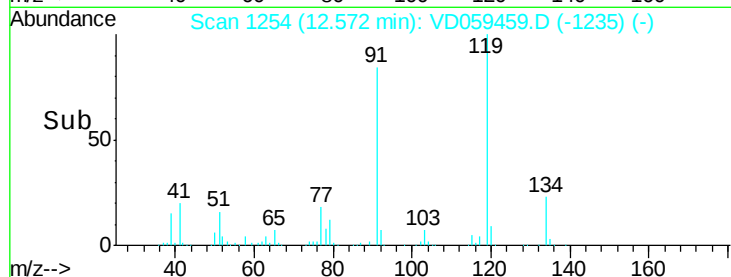
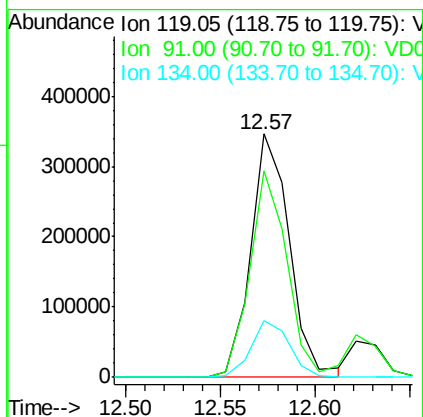
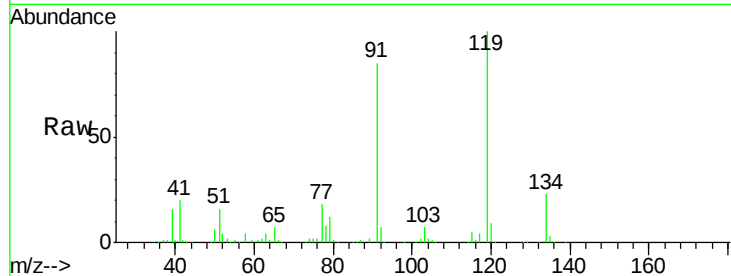




#83
 tert-Butylbenzene
 Concen: 39.32 ug/l
 RT: 12.57 min Scan# 1254
 Delta R.T. -0.01 min
 Lab File: VD059459.D
 Acq: 27 Jun 2018 22:05

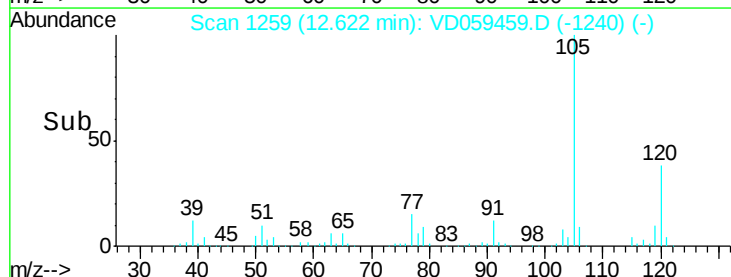
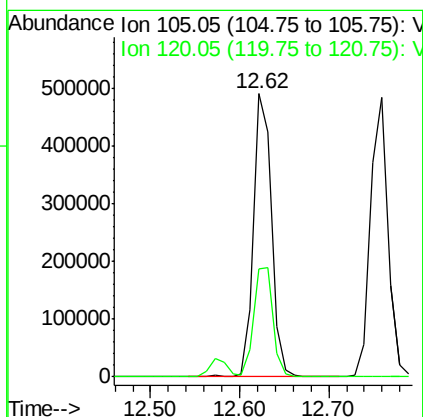
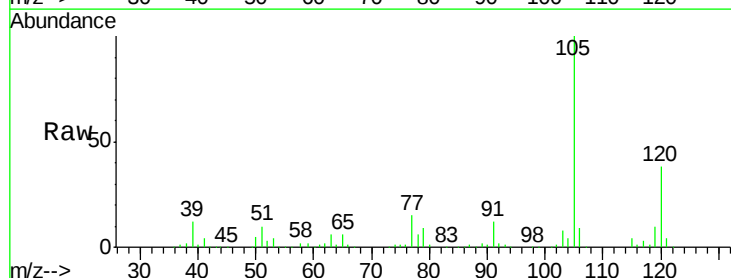
Instrument :
 MSVOA_D
 ClientSampleId :
 ZER-SB-04-1-2MSD

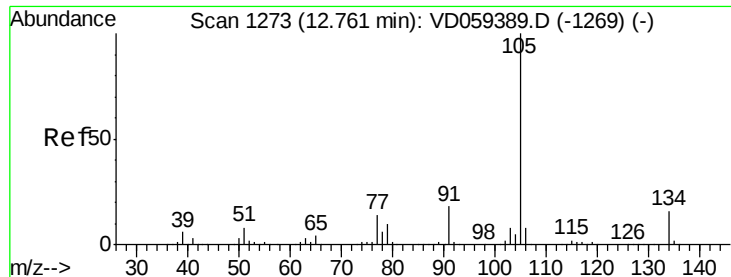
Tot Ion:119 Resp: 490651
 Ion Ratio Lower Upper
 119 100
 91 84.6 36.9 110.7
 134 23.4 11.2 33.6



#84
 1,2,4-Trimethylbenzene
 Concen: 54.90 ug/l
 RT: 12.62 min Scan# 1259
 Delta R.T. -0.01 min
 Lab File: VD059459.D
 Acq: 27 Jun 2018 22:05

Tgt Ion:105 Resp: 681632
 Ion Ratio Lower Upper
 105 100
 120 38.2 21.5 64.5

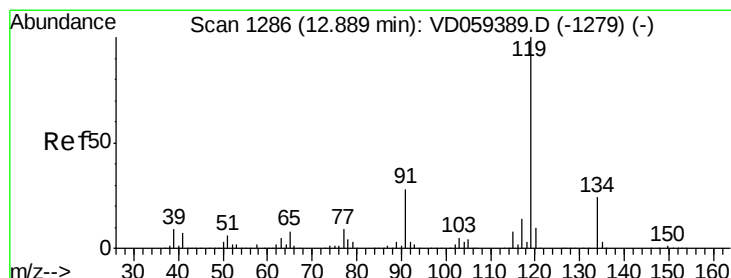
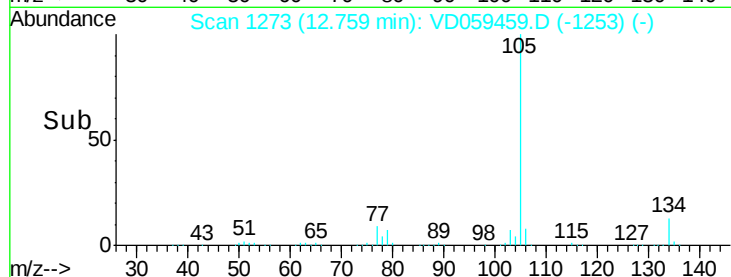
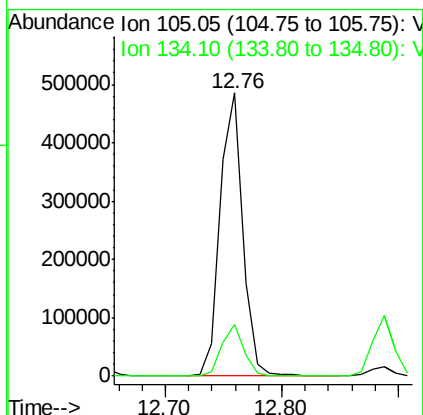
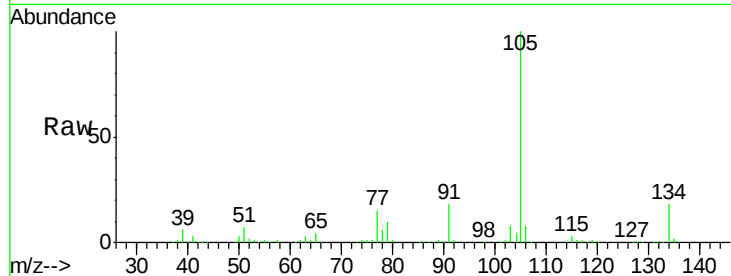




#85
 sec-Butylbenzene
 Concen: 42.56 ug/l
 RT: 12.76 min Scan# 1273
 Delta R.T. -0.00 min
 Lab File: VD059459.D
 Acq: 27 Jun 2018 22:05

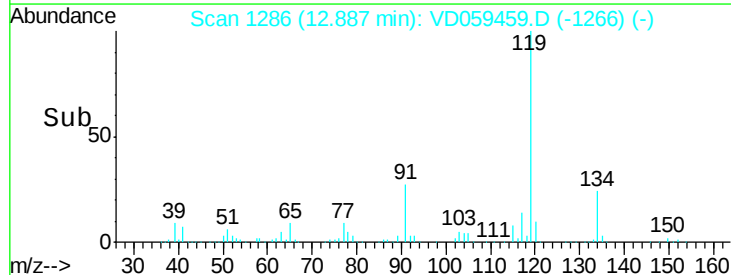
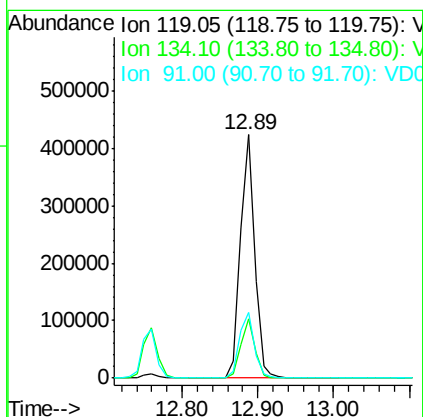
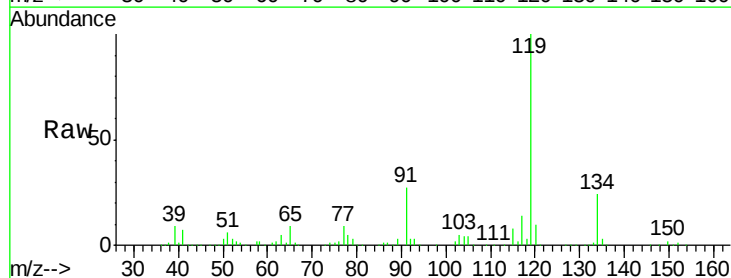
Instrument :
 MSVOA_D
 ClientSampleId :
 ZER-SB-04-1-2MSD

Tot Ion:105 Resp: 651707
 Ion Ratio Lower Upper
 105 100
 134 18.1 8.2 24.6



#86
 p-Isopropyltoluene
 Concen: 44.04 ug/l
 RT: 12.89 min Scan# 1286
 Delta R.T. -0.00 min
 Lab File: VD059459.D
 Acq: 27 Jun 2018 22:05

Tgt Ion:119 Resp: 543572
 Ion Ratio Lower Upper
 119 100
 134 24.5 11.9 35.5
 91 27.0 14.1 42.4

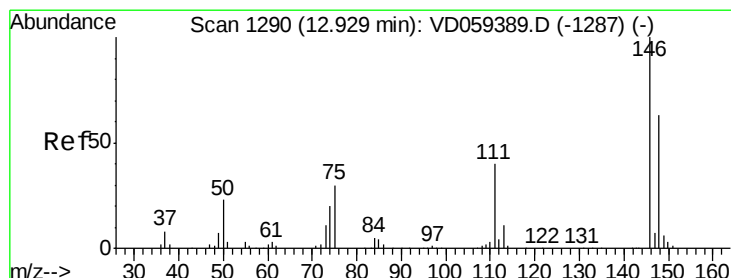
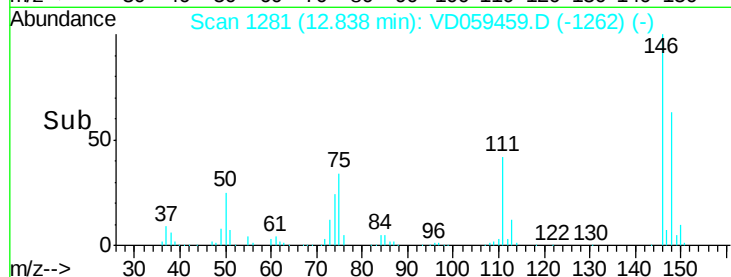
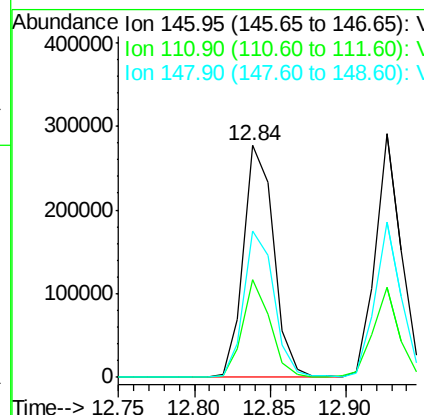
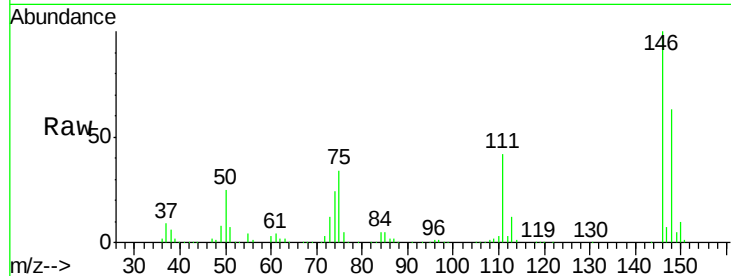




#87
 1,3-Dichlorobenzene
 Concen: 50.43 ug/l
 RT: 12.84 min Scan# 1281
 Delta R.T. -0.01 min
 Lab File: VD059459.D
 Acq: 27 Jun 2018 22:05

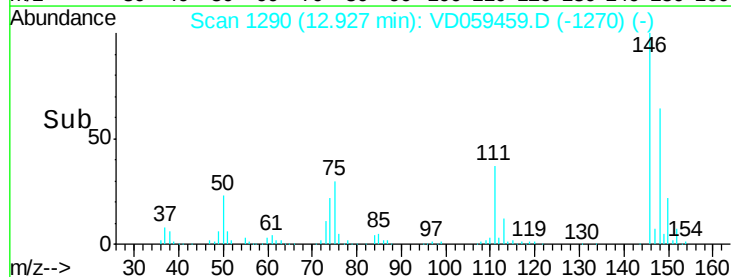
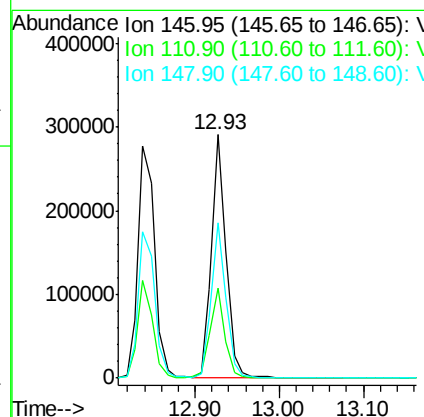
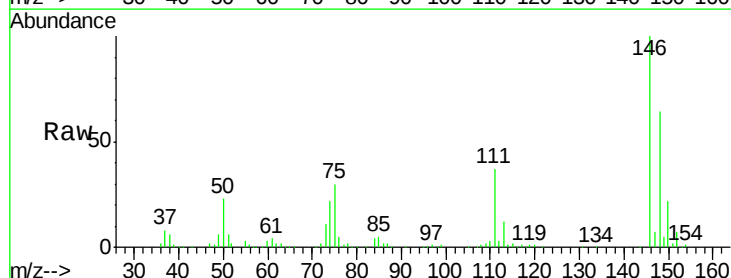
Instrument :
 MSVOA_D
 ClientSampleId :
 ZER-SB-04-1-2MSD

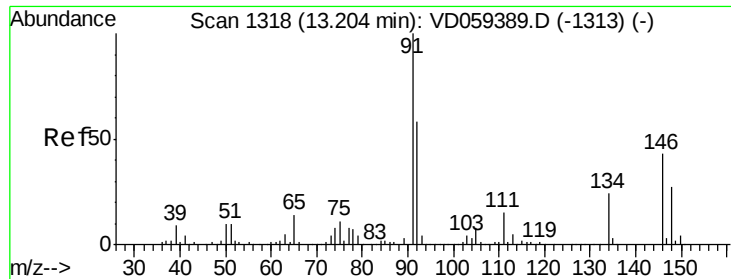
Tot Ion:146 Resp: 384792
 Ion Ratio Lower Upper
 146 100
 111 42.0 17.6 52.8
 148 63.2 32.4 97.2



#88
 1,4-Dichlorobenzene
 Concen: 47.01 ug/l
 RT: 12.93 min Scan# 1290
 Delta R.T. -0.00 min
 Lab File: VD059459.D
 Acq: 27 Jun 2018 22:05

Tgt Ion:146 Resp: 354028
 Ion Ratio Lower Upper
 146 100
 111 37.0 20.1 60.2
 148 63.9 31.4 94.0

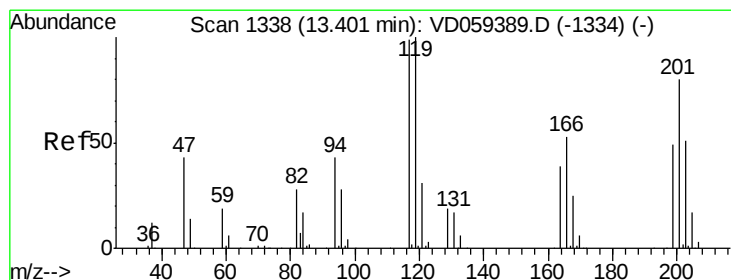
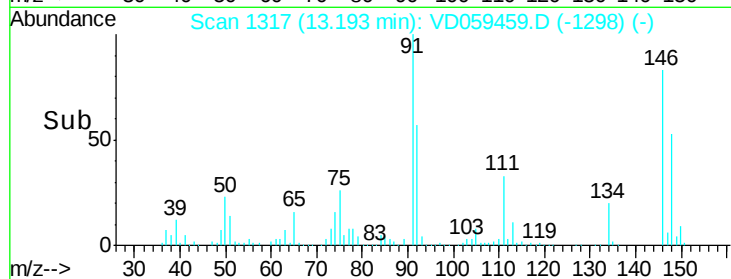
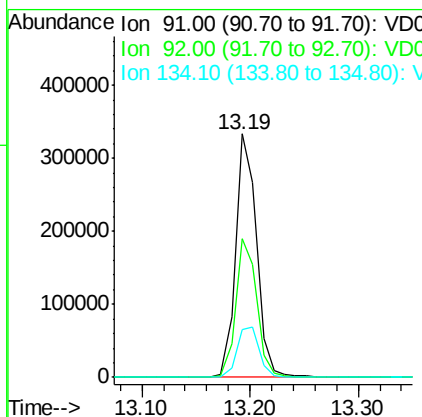
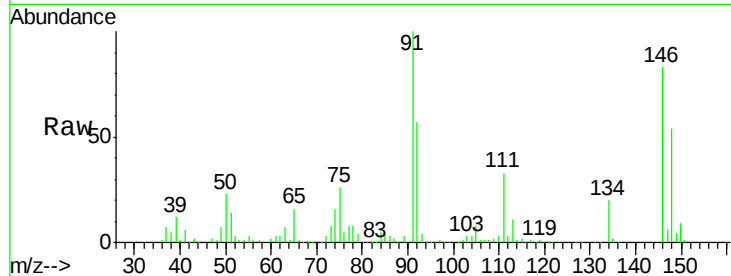




#89
n-Butylbenzene
Concen: 36.82 ug/l
RT: 13.19 min Scan# 1317
Delta R.T. -0.01 min
Lab File: VD059459.D
Acq: 27 Jun 2018 22:05

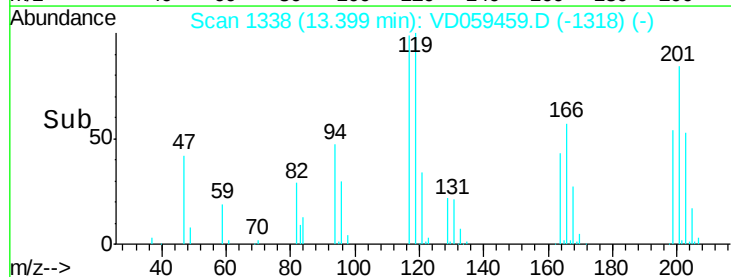
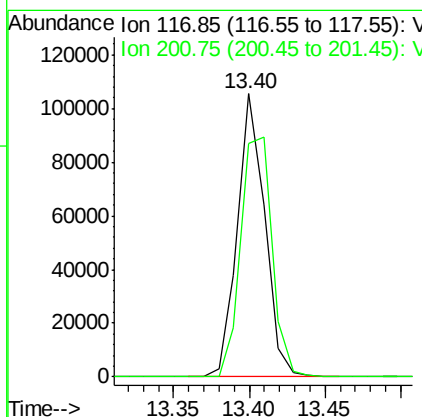
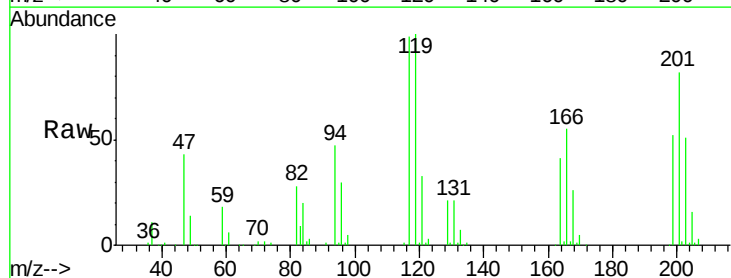
Instrument :
MSVOA_D
ClientSampleId :
ZER-SB-04-1-2MSD

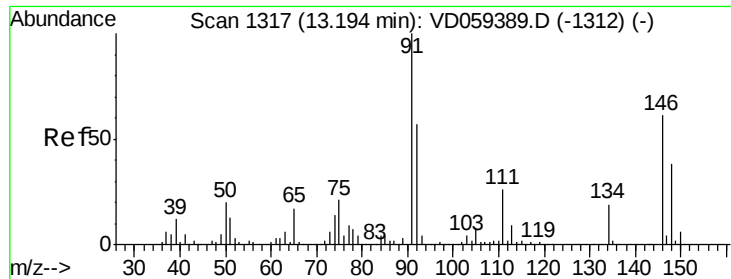
Tot Ion: 91 Resp: 448633
Ion Ratio Lower Upper
91 100
92 57.1 28.8 86.5
134 19.5 11.9 35.7



#90
Hexachloroethane
Concen: 42.82 ug/l
RT: 13.40 min Scan# 1338
Delta R.T. -0.00 min
Lab File: VD059459.D
Acq: 27 Jun 2018 22:05

Tgt Ion: 117 Resp: 131857
Ion Ratio Lower Upper
117 100
201 82.6 40.1 120.3

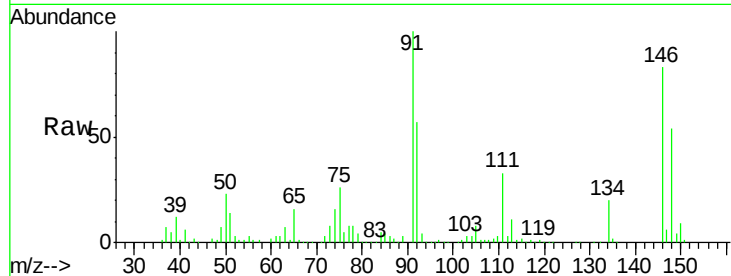




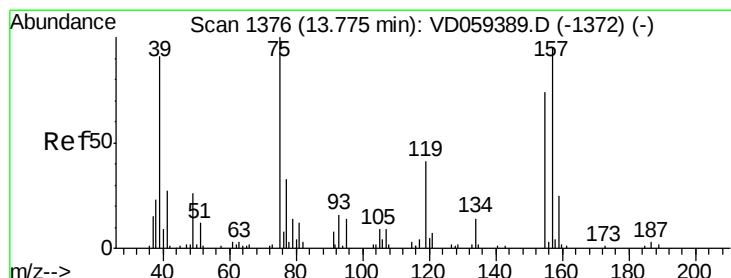
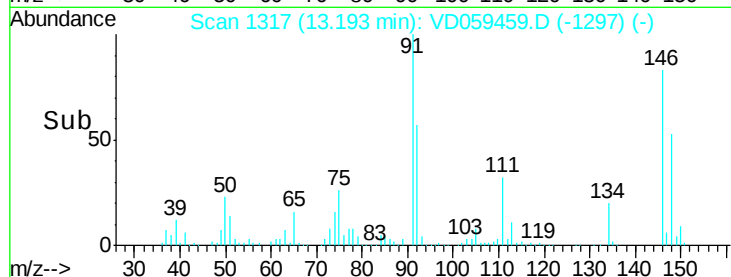
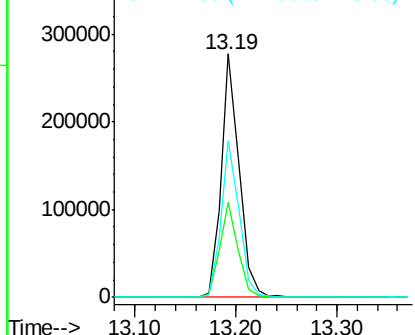
#91
 1,2-Dichlorobenzene
 Concen: 53.62 ug/l
 RT: 13.19 min Scan# 1317
 Delta R.T. -0.00 min
 Lab File: VD059459.D
 Acq: 27 Jun 2018 22:05

Instrument :
 MSVOA_D
 ClientSampleId :
 ZER-SB-04-1-2MSD

Tot Ion:146 Resp: 346907
 Ion Ratio Lower Upper
 146 100
 111 39.1 21.4 64.2
 148 64.3 31.6 95.0

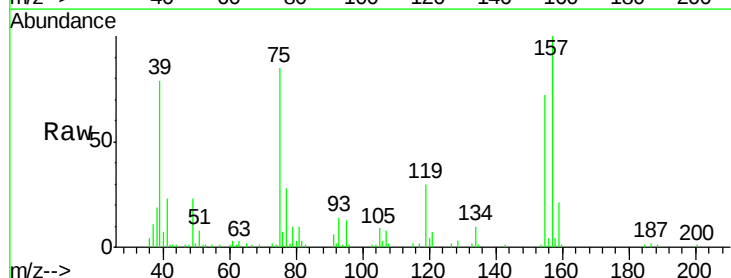


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

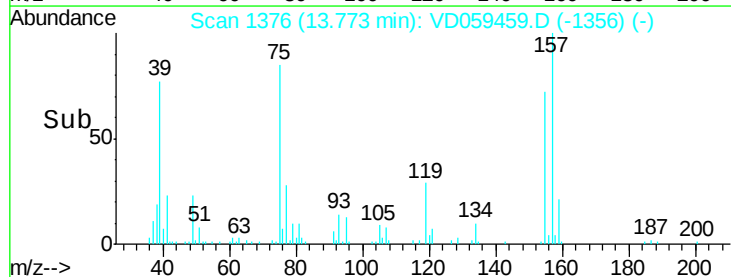
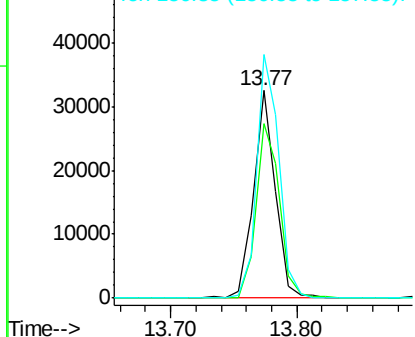


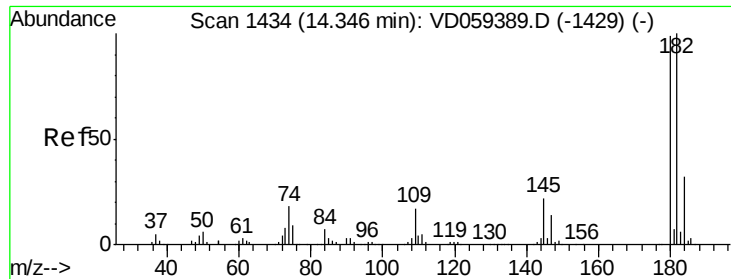
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 68.72 ug/l
 RT: 13.77 min Scan# 1376
 Delta R.T. -0.00 min
 Lab File: VD059459.D
 Acq: 27 Jun 2018 22:05

Tgt Ion: 75 Resp: 39180
 Ion Ratio Lower Upper
 75 100
 155 84.1 37.2 111.6
 157 117.3 47.4 142.2



Abundance Ion 75.00 (74.70 to 75.70): V
 Ion 154.90 (154.60 to 155.60): V
 Ion 156.85 (156.55 to 157.55): V

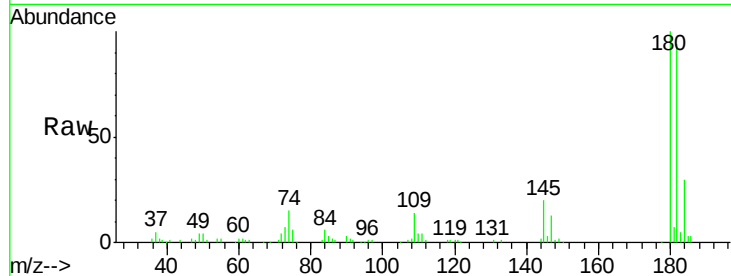




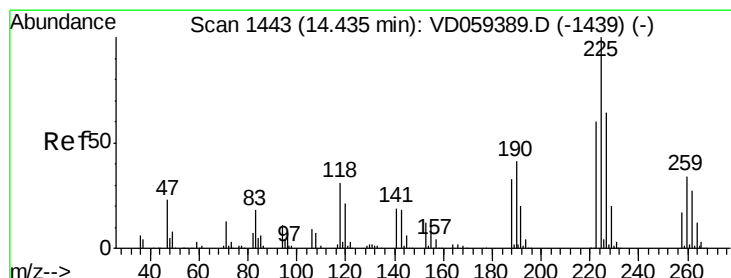
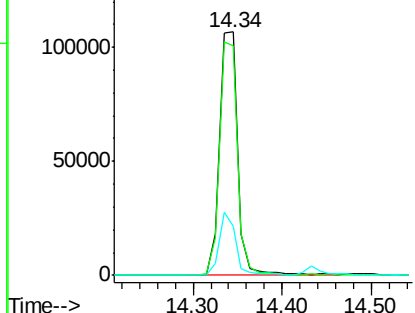
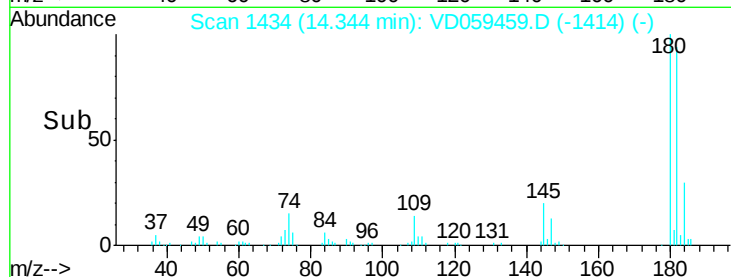
#93
 1,2,4-Trichlorobenzene
 Concen: 25.83 ug/l
 RT: 14.34 min Scan# 1434
 Delta R.T. -0.00 min
 Lab File: VD059459.D
 Acq: 27 Jun 2018 22:05

Instrument :
 MSVOA_D
 ClientSampleId :
 ZER-SB-04-1-2MSD

Tot Ion:180 Resp: 154527
 Ion Ratio Lower Upper
 180 100
 182 94.3 50.4 151.2
 145 20.4 11.0 33.0

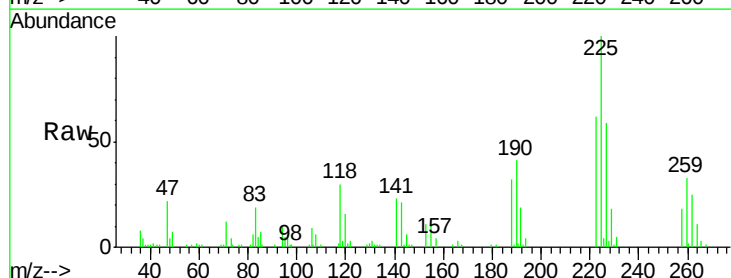


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

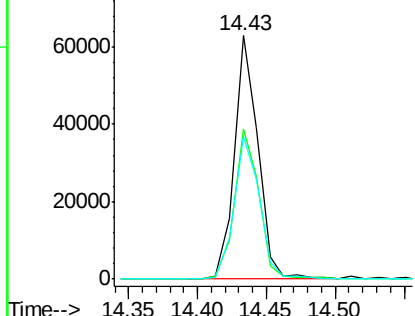
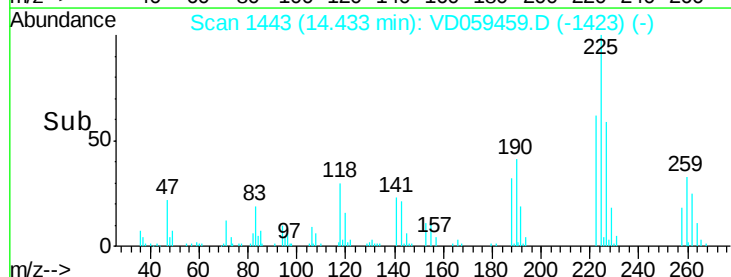


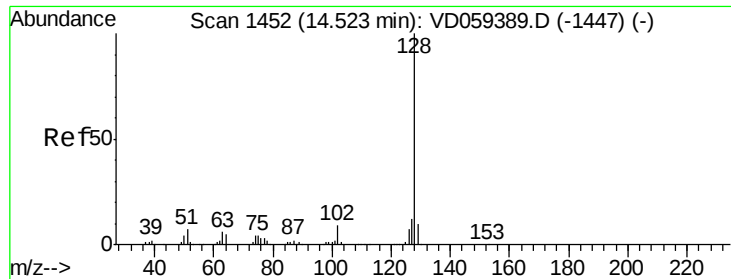
#94
 Hexachlorobutadiene
 Concen: 16.69 ug/l
 RT: 14.43 min Scan# 1443
 Delta R.T. -0.00 min
 Lab File: VD059459.D
 Acq: 27 Jun 2018 22:05

Tgt Ion:225 Resp: 75139
 Ion Ratio Lower Upper
 225 100
 223 61.6 30.0 90.1
 227 58.6 32.1 96.5



Abundance Ion 224.75 (224.45 to 225.45): V
 Ion 222.75 (222.45 to 223.45): V
 Ion 226.75 (226.45 to 227.45): V

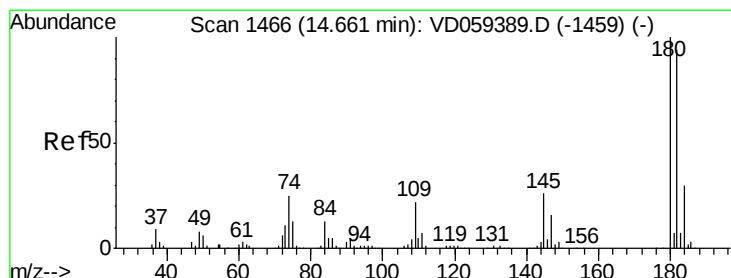
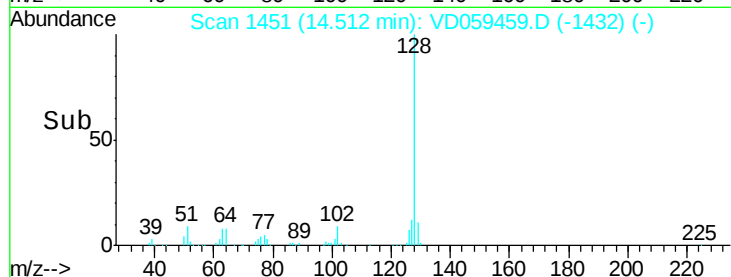
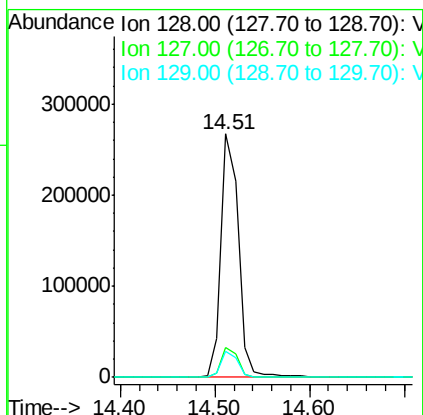
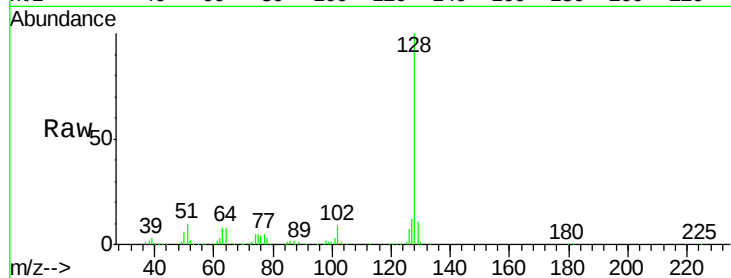




#95
Naphthalene
Concen: 40.90 ug/l
RT: 14.51 min Scan# 1451
Delta R.T. -0.01 min
Lab File: VD059459.D
Acq: 27 Jun 2018 22:05

Instrument :
MSVOA_D
ClientSampleId :
ZER-SB-04-1-2MSD

Tot Ion:128 Resp: 340962
Ion Ratio Lower Upper
128 100
127 12.4 9.6 14.4
129 10.8 8.2 12.2



#96
1,2,3-Trichlorobenzene
Concen: 23.71 ug/l
RT: 14.66 min Scan# 1466
Delta R.T. -0.00 min
Lab File: VD059459.D
Acq: 27 Jun 2018 22:05

Tgt Ion:180 Resp: 127537
Ion Ratio Lower Upper
180 100
182 93.9 47.1 141.4
145 27.9 13.1 39.3

