

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD080718\
 Data File : VD059699.D
 Acq On : 7 Aug 2018 12:29
 Operator : VA/AP
 Sample : VD0807SBS01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0807SBS01

Quant Time: Aug 08 08:04:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080618S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 08 02:03:19 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.62	168	215204	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.68	114	268353	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.68	117	219961	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.90	152	120305	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.00	65	144632	52.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.50%	
35) Dibromofluoromethane	5.52	113	127788	53.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.04%	
50) Toluene-d8	8.69	98	266877	50.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.74%	
62) 4-Bromofluorobenzene	11.92	95	121332	50.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.22%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.32	85	56142	18.59	ug/l	99
3) Chloromethane	1.47	50	23390	17.38	ug/l	94
4) Vinyl Chloride	1.54	62	29422	18.72	ug/l	93
5) Bromomethane	1.77	94	6840	13.23	ug/l	94
6) Chloroethane	1.85	64	10599	16.59	ug/l #	85
7) Trichlorofluoromethane	2.06	101	48536	18.95	ug/l	98
8) Diethyl Ether	2.33	74	8840	18.84	ug/l	61
9) 1,1,2-Trichlorotrifluoroet	2.53	101	27914	19.29	ug/l	92
10) Methyl Iodide	2.67	142	28535	17.15	ug/l	96
11) Tert butyl alcohol	3.24	59	11721	116.36	ug/l #	76
12) 1,1-Dichloroethene	2.52	96	19624	18.56	ug/l	98
13) Acrolein	2.45	56	8954	94.64	ug/l	100
14) Allyl chloride	2.90	41	46272	19.13	ug/l	99
15) Acrylonitrile	3.33	53	30688	109.84	ug/l	99
16) Acetone	2.59	43	49073	94.37	ug/l	96
17) Carbon Disulfide	2.73	76	64419	16.87	ug/l	99
18) Methyl Acetate	2.91	43	16600	17.28	ug/l	100
19) Methyl tert-butyl Ether	3.38	73	93696	23.23	ug/l	96
20) Methylene Chloride	3.05	84	33728	16.86	ug/l	90
21) trans-1,2-Dichloroethene	3.36	96	30067	21.73	ug/l	91
22) Diisopropyl ether	4.05	45	113708	19.99	ug/l	99
23) Vinyl Acetate	3.99	43	372583	103.29	ug/l	99
24) 1,1-Dichloroethane	3.95	63	73667	19.56	ug/l	99
25) 2-Butanone	4.82	43	62024	90.81	ug/l	99
26) 2,2-Dichloropropane	4.78	77	78135	19.43	ug/l	99
27) cis-1,2-Dichloroethene	4.78	96	39980	19.90	ug/l	95
28) Bromochloromethane	5.12	49	30634	22.03	ug/l #	100
29) Tetrahydrofuran	5.16	42	28556	107.95	ug/l	97
30) Chloroform	5.30	83	90828	19.79	ug/l	98
31) Cyclohexane	5.57	56	48878	17.77	ug/l	99
32) 1,1,1-Trichloroethane	5.48	97	82263	18.43	ug/l	93
36) 1,1-Dichloropropene	5.72	75	59160	19.83	ug/l	94
37) Ethyl Acetate	4.90	43	31796	21.95	ug/l	98
38) Carbon Tetrachloride	5.70	117	77175	19.33	ug/l	97

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.27	83	48331	19.17	ug/l	98
40) Benzene	6.00	78	112122	19.38	ug/l	98
41) Methacrylonitrile	5.10	41	14719	21.73	ug/l	94
42) 1,2-Dichloroethane	6.11	62	69823	19.52	ug/l	96
43) Isopropyl Acetate	7.60	43	37901	20.02	ug/l	100
44) Trichloroethene	6.96	130	41468	19.62	ug/l	95
45) 1,2-Dichloropropane	7.33	63	28923	18.93	ug/l	93
46) Dibromomethane	7.44	93	27100	20.47	ug/l	99
47) Bromodichloromethane	7.73	83	64906	19.25	ug/l	97
48) Methyl methacrylate	7.49	41	25822	20.66	ug/l	95
49) 1,4-Dioxane	7.48	88	4275	417.53	ug/l #	91
51) 4-Methyl-2-Pentanone	8.58	43	128692	93.20	ug/l	94
52) Toluene	8.79	92	73849	20.01	ug/l	96
53) t-1,3-Dichloropropene	9.17	75	56005	19.63	ug/l	98
54) cis-1,3-Dichloropropene	8.35	75	59524	20.26	ug/l	96
55) 1,1,2-Trichloroethane	9.44	97	28152	19.86	ug/l	96
56) Ethyl methacrylate	9.30	69	32439	20.74	ug/l	94
57) 1,3-Dichloropropane	9.65	76	44566	20.26	ug/l	92
58) 2-Chloroethyl Vinyl ether	8.17	63	82583	110.82	ug/l	98
59) 2-Hexanone	9.77	43	103370	99.69	ug/l	96
60) Dibromochloromethane	9.94	129	45144	20.04	ug/l	92
61) 1,2-Dibromoethane	10.08	107	33015	20.25	ug/l	97
64) Tetrachloroethene	9.50	164	38088	18.29	ug/l	99
65) Chlorobenzene	10.71	112	89537	19.32	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.84	131	40516	19.94	ug/l	96
67) Ethyl Benzene	10.85	91	162846	19.51	ug/l	99
68) m/p-Xylenes	11.00	106	104243	39.04	ug/l	99
69) o-Xylene	11.40	106	51631	19.89	ug/l	89
70) Styrene	11.43	104	84618	19.42	ug/l	91
71) Bromoform	11.59	173	30267	19.77	ug/l #	97
73) Isopropylbenzene	11.76	105	155394	19.22	ug/l	98
74) N-amyl acetate	11.63	43	50824	19.65	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.07	83	32915	20.29	ug/l	98
76) 1,2,3-Trichloropropane	12.11	75	38454	20.68	ug/l	90
77) Bromobenzene	12.04	156	45149	19.16	ug/l	81
78) n-propylbenzene	12.14	91	200042	19.97	ug/l	99
79) 2-Chlorotoluene	12.20	91	118513	19.59	ug/l	99
80) 1,3,5-Trimethylbenzene	12.31	105	132257	19.64	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.83	75	8611	18.97	ug/l	96
82) 4-Chlorotoluene	12.32	91	143691	20.29	ug/l	86
83) tert-Butylbenzene	12.57	119	145983	19.37	ug/l	99
84) 1,2,4-Trimethylbenzene	12.62	105	140074	19.63	ug/l	99
85) sec-Butylbenzene	12.74	105	162503	19.41	ug/l	100
86) p-Isopropyltoluene	12.88	119	135423	18.97	ug/l	93
87) 1,3-Dichlorobenzene	12.83	146	79639	19.58	ug/l	94
88) 1,4-Dichlorobenzene	12.92	146	76840	18.94	ug/l	99
89) n-Butylbenzene	13.19	91	140311	19.38	ug/l	98
90) Hexachloroethane	13.39	117	36391	19.67	ug/l	93
91) 1,2-Dichlorobenzene	13.19	146	67426	19.68	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.77	75	6511	19.21	ug/l	85

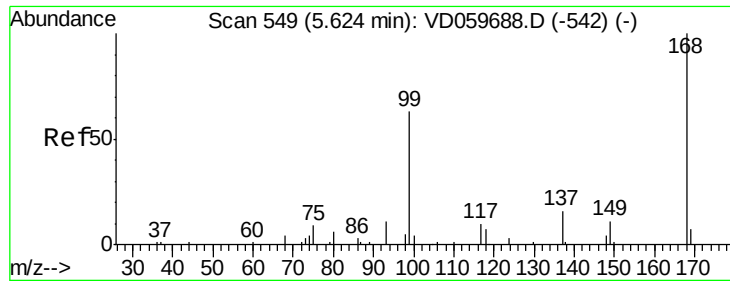
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD080718\
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.33	180	58168	18.88	ug/l	99
94) Hexachlorobutadiene	14.43	225	43756	18.31	ug/l	97
95) Naphthalene	14.51	128	84136	18.44	ug/l	99
96) 1,2,3-Trichlorobenzene	14.65	180	53155	19.72	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.62 min Scan# 549

Delta R.T. -0.00 min

Lab File: VD059699.D

Acq: 7 Aug 2018 12:29

Instrument :

MSVOA_D

ClientSampleId :

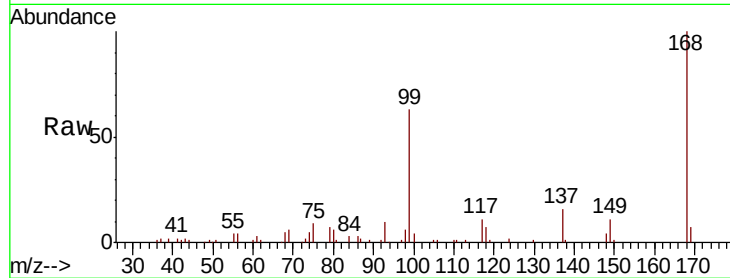
VD0807SBS01

Tot Ion:168 Resp: 215204

Ion Ratio Lower Upper

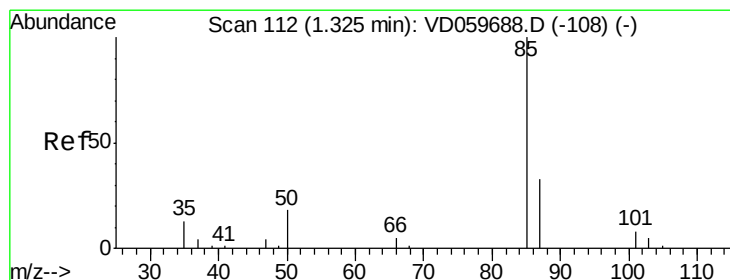
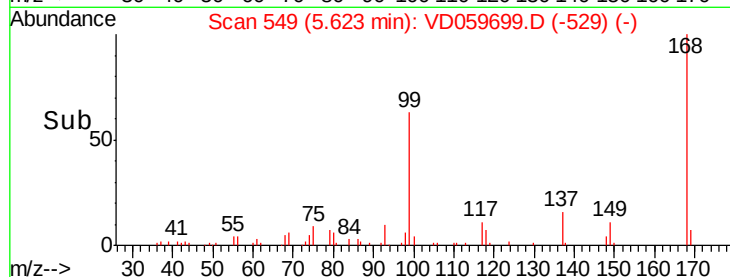
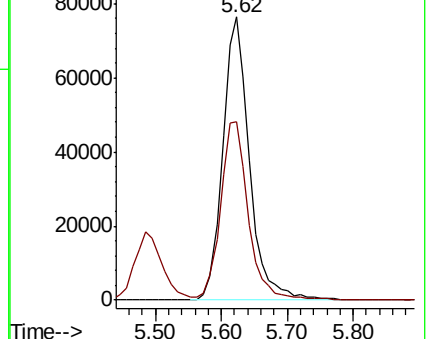
168 100

99 63.0 53.4 80.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 18.59 ug/l

RT: 1.32 min Scan# 112

Delta R.T. -0.00 min

Lab File: VD059699.D

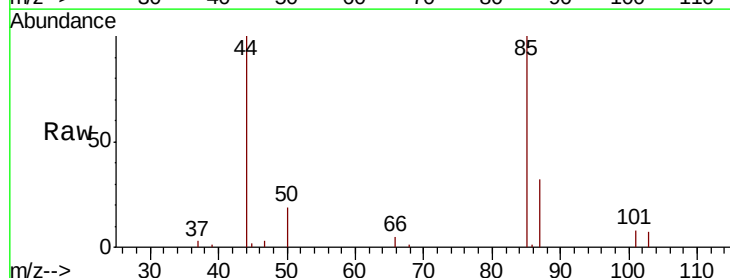
Acq: 7 Aug 2018 12:29

Tgt Ion: 85 Resp: 56142

Ion Ratio Lower Upper

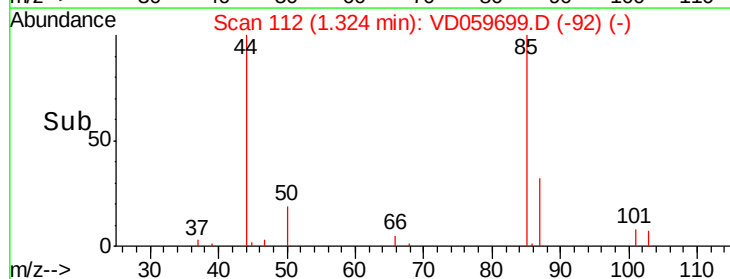
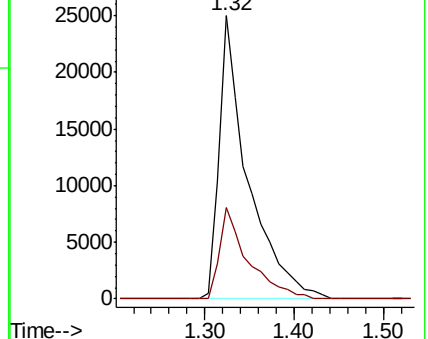
85 100

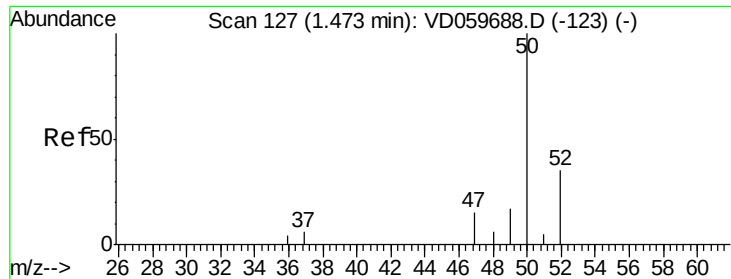
87 32.2 16.4 49.1



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 17.38 ug/l

RT: 1.47 min Scan# 127

Delta R.T. -0.00 min

Lab File: VD059699.D

Acq: 7 Aug 2018 12:29

Instrument :

MSVOA_D

ClientSampleId :

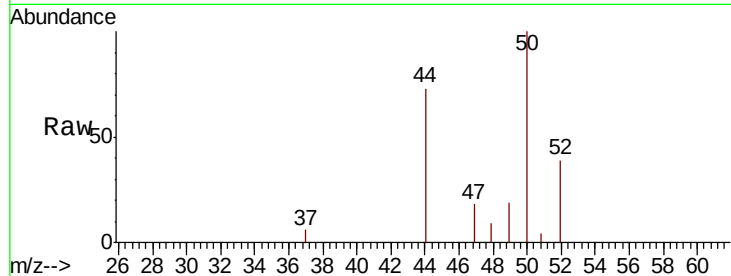
VD0807SBS01

Tot Ion: 50 Resp: 23390

Ion Ratio Lower Upper

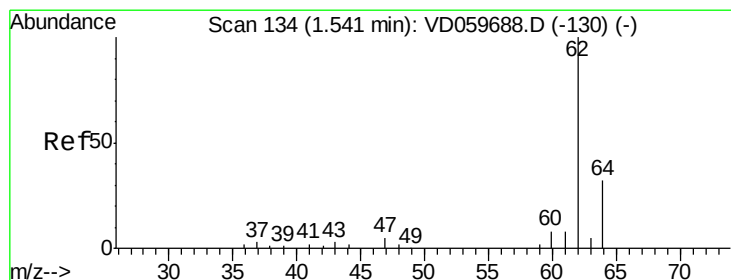
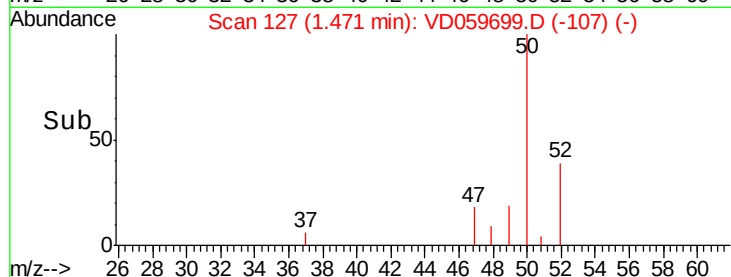
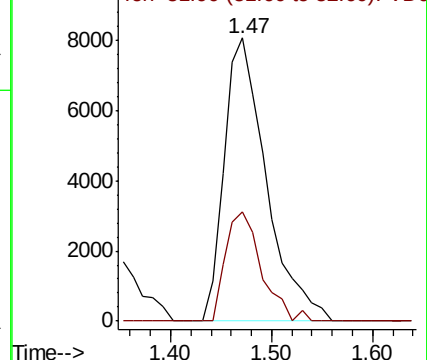
50 100

52 38.5 28.2 42.4



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 18.72 ug/l

RT: 1.54 min Scan# 134

Delta R.T. -0.00 min

Lab File: VD059699.D

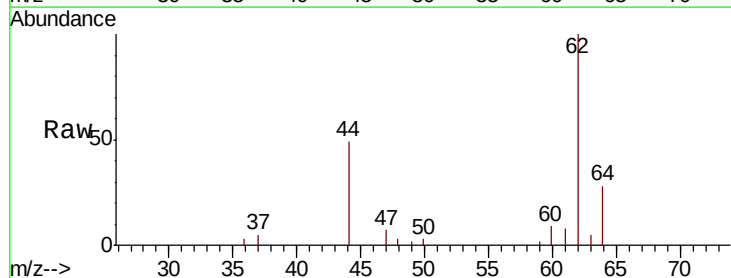
Acq: 7 Aug 2018 12:29

Tgt Ion: 62 Resp: 29422

Ion Ratio Lower Upper

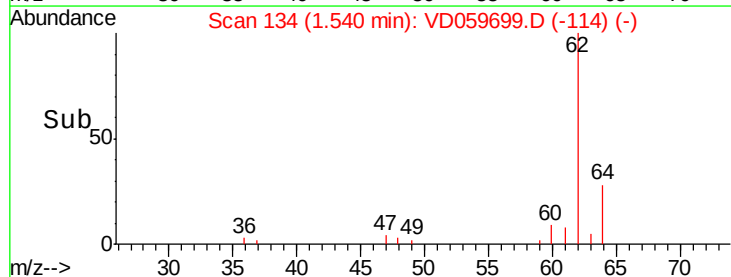
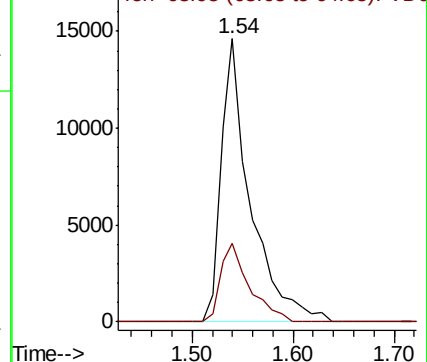
62 100

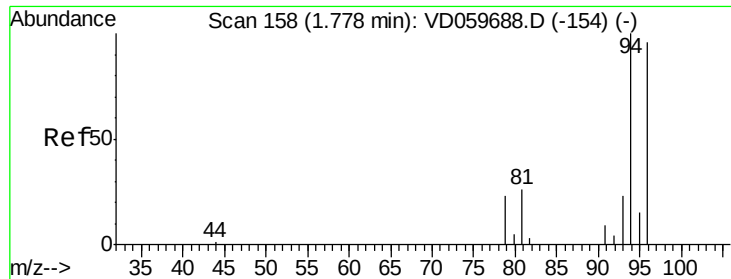
64 27.9 25.4 38.0



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC

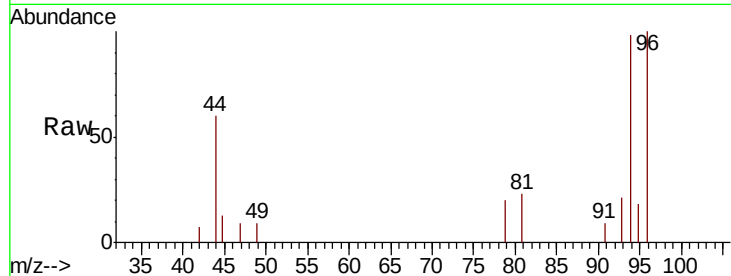




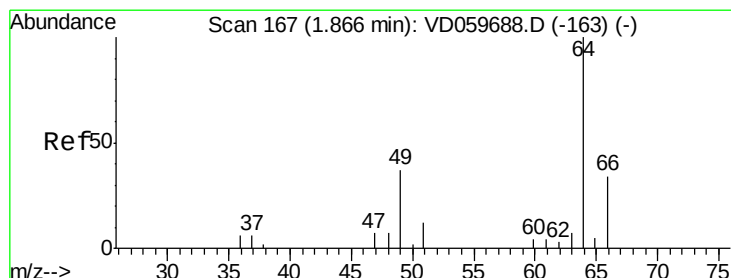
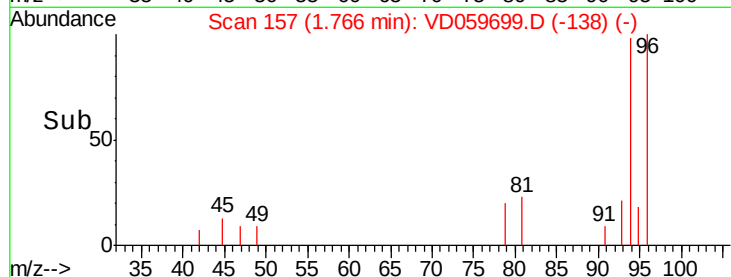
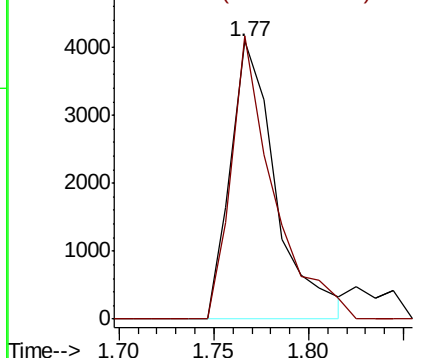
#5
Bromomethane
Concen: 13.23 ug/l
RT: 1.77 min Scan# 157
Delta R.T. -0.01 min
Lab File: VD059699.D
Acq: 7 Aug 2018 12:29

Instrument :
MSVOA_D
ClientSampleId :
VD0807SBS01

Tot Ion: 94 Resp: 6840
Ion Ratio Lower Upper
94 100
96 101.9 76.6 114.8

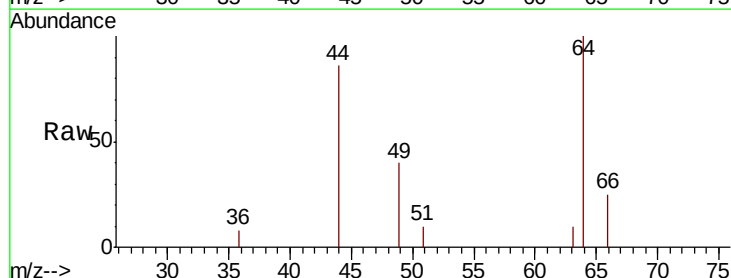


Abundance Ion 93.90 (93.60 to 94.60): VDC
Ion 95.90 (95.60 to 96.60): VDC

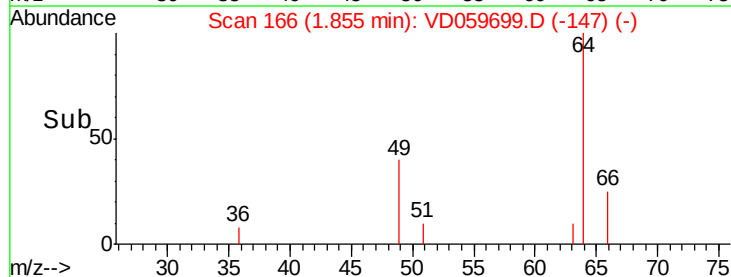
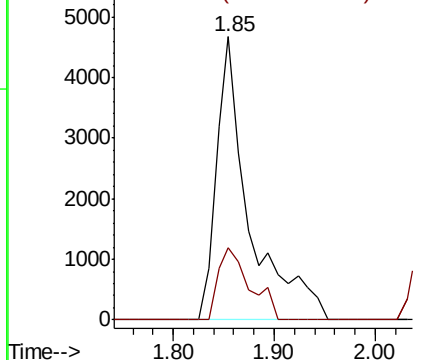


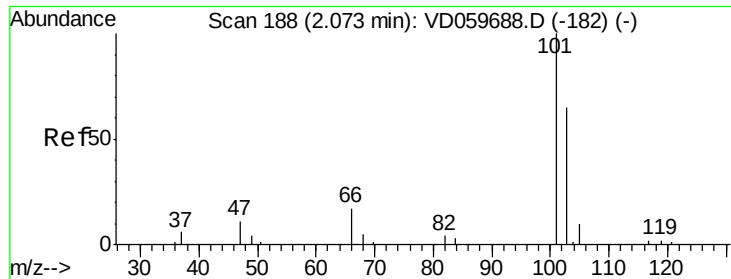
#6
Chloroethane
Concen: 16.59 ug/l
RT: 1.85 min Scan# 166
Delta R.T. -0.01 min
Lab File: VD059699.D
Acq: 7 Aug 2018 12:29

Tgt Ion: 64 Resp: 10599
Ion Ratio Lower Upper
64 100
66 25.3 27.2 40.8#



Abundance Ion 63.95 (63.65 to 64.65): VDC
Ion 65.90 (65.60 to 66.60): VDC



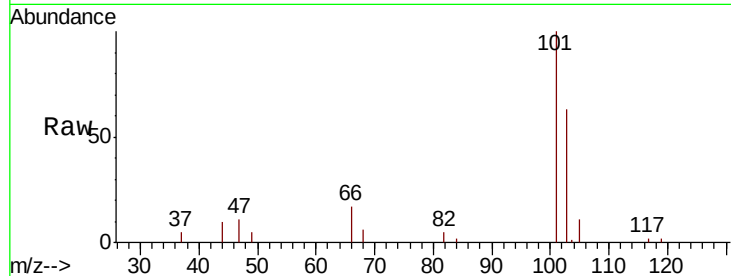


#7

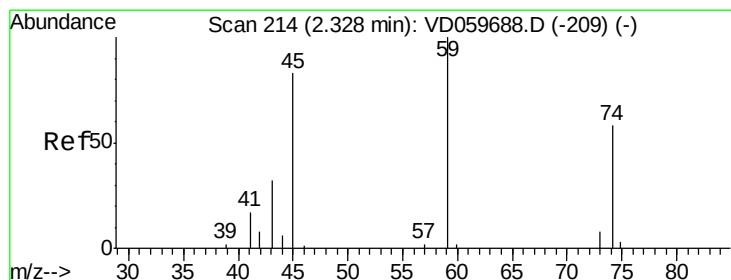
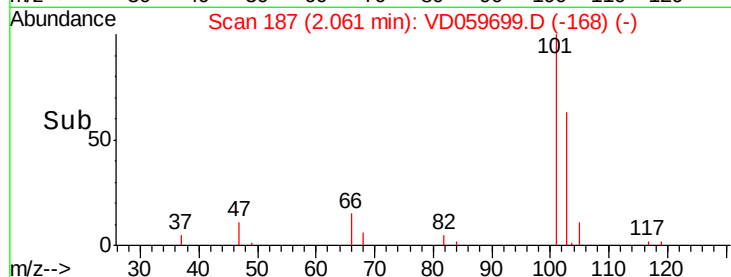
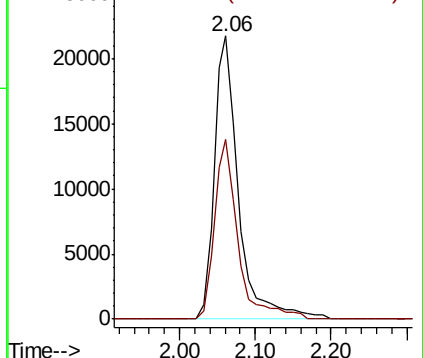
Trichlorofluoromethane
 Concen: 18.95 ug/l
 RT: 2.06 min Scan# 187
 Delta R.T. -0.01 min
 Lab File: VD059699.D
 Acq: 7 Aug 2018 12:29

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0807SBS01

Tot Ion:101 Resp: 48536
 Ion Ratio Lower Upper
 101 100
 103 63.4 51.7 77.5



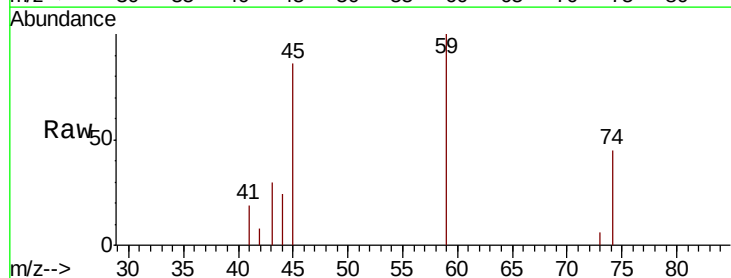
Abundance Ion 100.85 (100.55 to 101.55): V
 Ion 102.85 (102.55 to 103.55): V



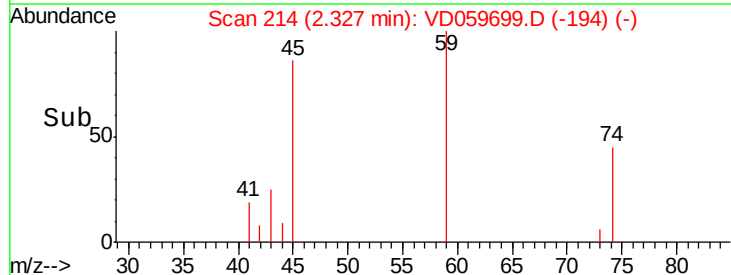
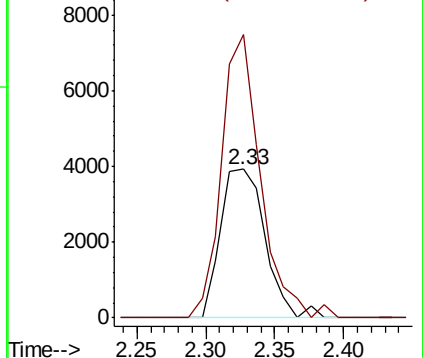
#8

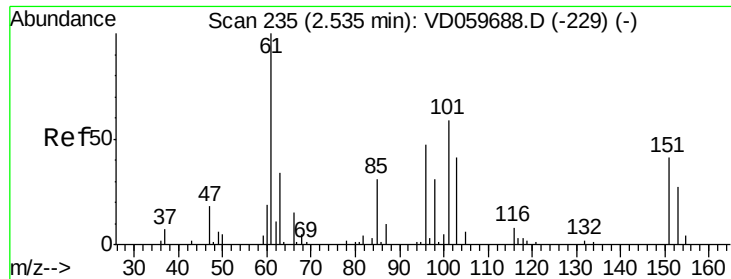
Diethyl Ether
 Concen: 18.84 ug/l
 RT: 2.33 min Scan# 214
 Delta R.T. -0.00 min
 Lab File: VD059699.D
 Acq: 7 Aug 2018 12:29

Tgt Ion: 74 Resp: 8840
 Ion Ratio Lower Upper
 74 100
 45 190.7 71.4 214.2



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: 19.29 ug/l

RT: 2.53 min Scan# 235

Delta R.T. -0.00 min

Lab File: VD059699.D

Acq: 7 Aug 2018 12:29

Instrument :

MSVOA_D

ClientSampleId :

VD0807SBS01

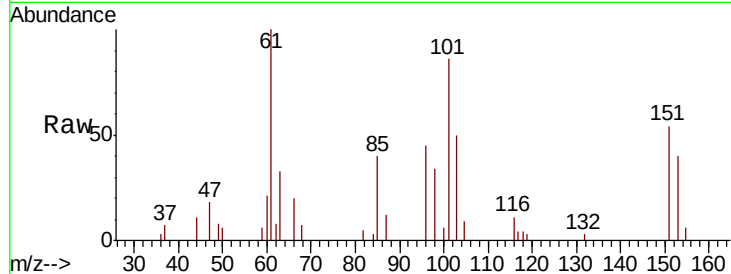
Tot Ion:101 Resp: 27914

Ion Ratio Lower Upper

101 100

85 46.9 42.2 63.4

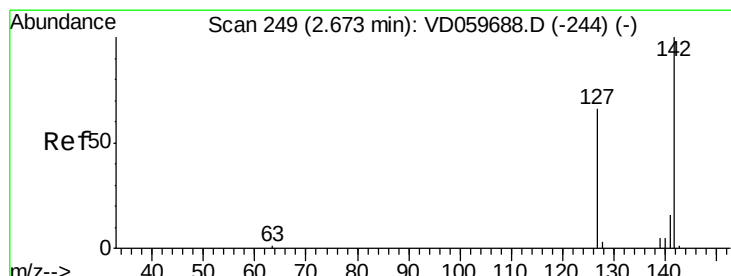
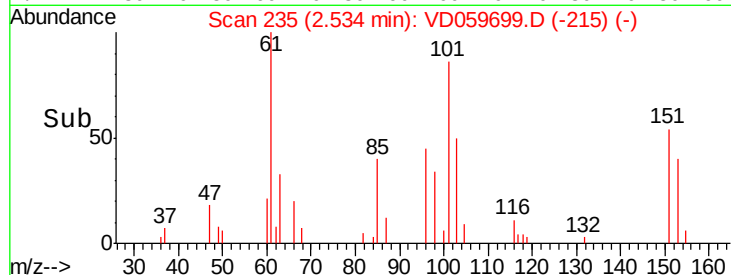
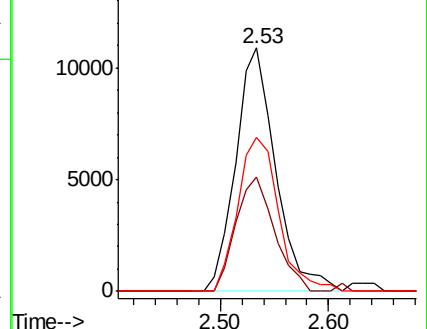
151 63.1 55.2 82.8



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: 17.15 ug/l

RT: 2.67 min Scan# 249

Delta R.T. -0.00 min

Lab File: VD059699.D

Acq: 7 Aug 2018 12:29

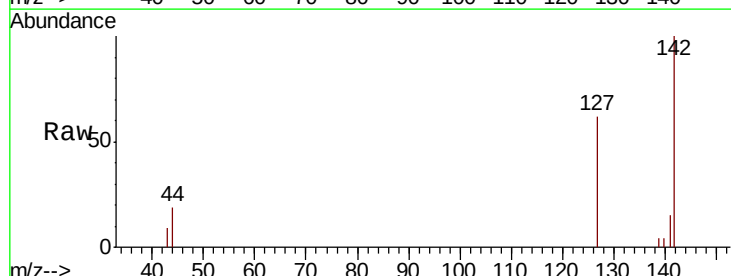
Tgt Ion:142 Resp: 28535

Ion Ratio Lower Upper

142 100

127 62.2 52.6 79.0

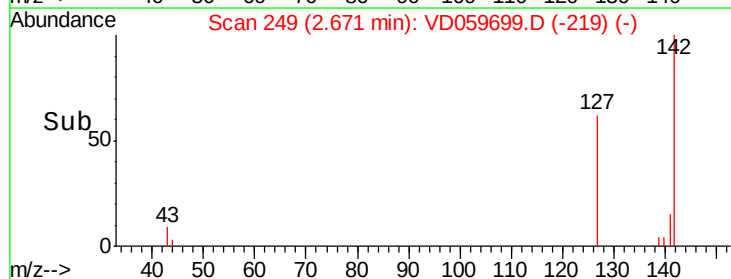
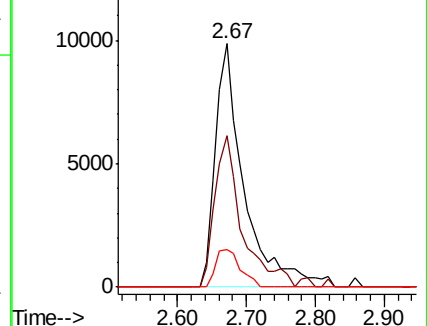
141 15.4 12.5 18.7

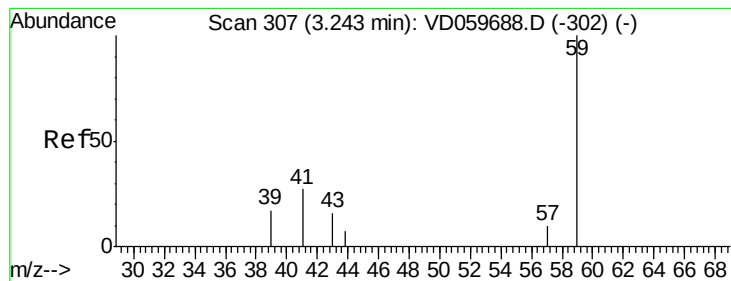


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



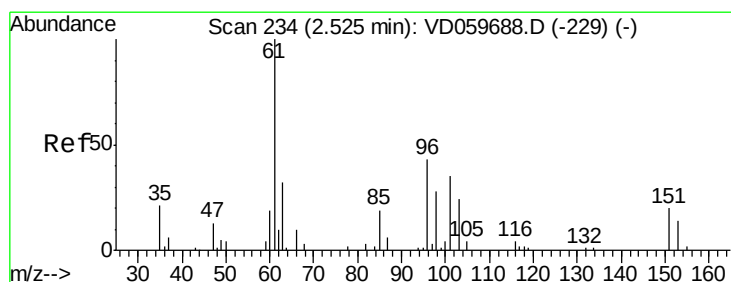
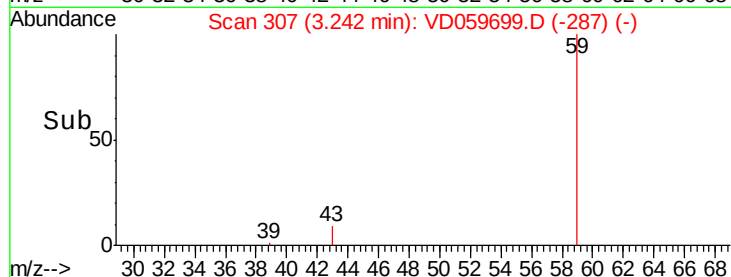
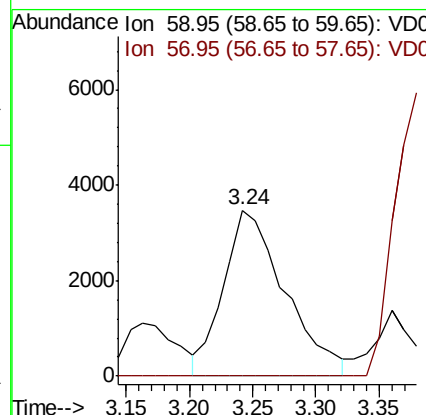
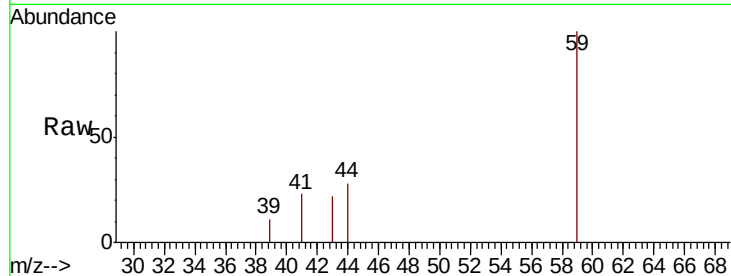


#11

Tert butyl alcohol
 Concen: 116.36 ug/l
 RT: 3.24 min Scan# 307
 Delta R.T. -0.00 min
 Lab File: VD059699.D
 Acq: 7 Aug 2018 12:29

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0807SBS01

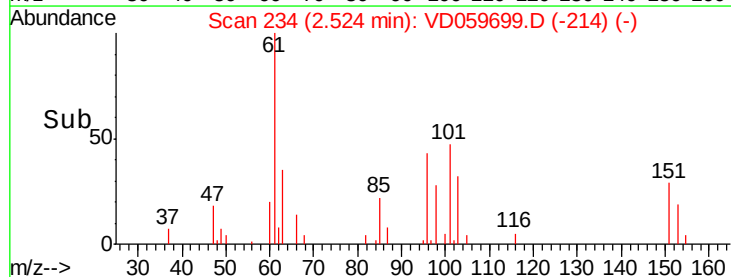
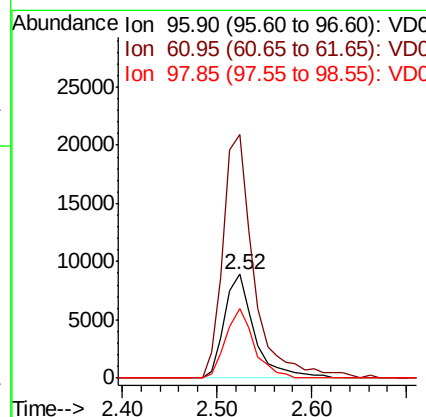
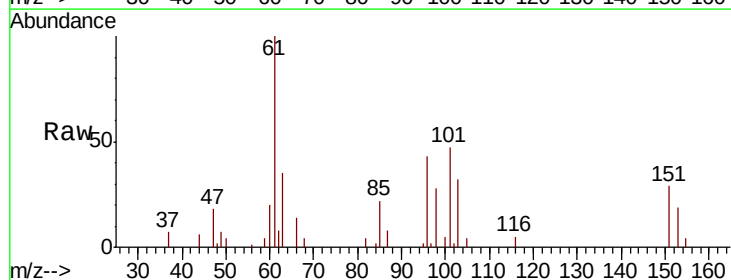
Tot Ion: 59 Resp: 11721
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.8 10.2#

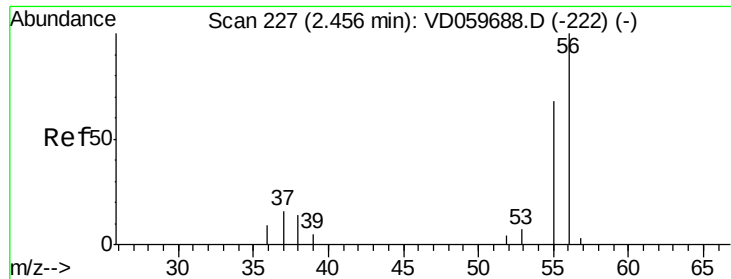


#12

1,1-Dichloroethene
 Concen: 18.56 ug/l
 RT: 2.52 min Scan# 234
 Delta R.T. -0.00 min
 Lab File: VD059699.D
 Acq: 7 Aug 2018 12:29

Tgt Ion: 96 Resp: 19624
 Ion Ratio Lower Upper
 96 100
 61 234.3 184.1 276.1
 98 66.6 52.4 78.6





#13

Acrolein

Concen: 94.64 ug/l

RT: 2.45 min Scan# 227

Delta R.T. -0.00 min

Lab File: VD059699.D

Acq: 7 Aug 2018 12:29

Instrument :

MSVOA_D

ClientSampleId :

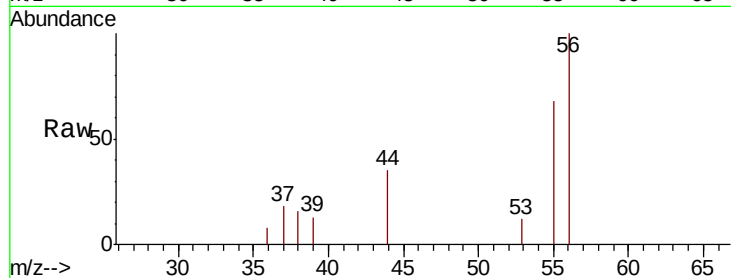
VD0807SBS01

Tot Ion: 56 Resp: 8954

Ion Ratio Lower Upper

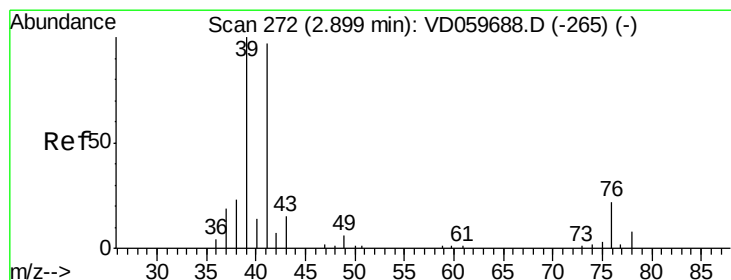
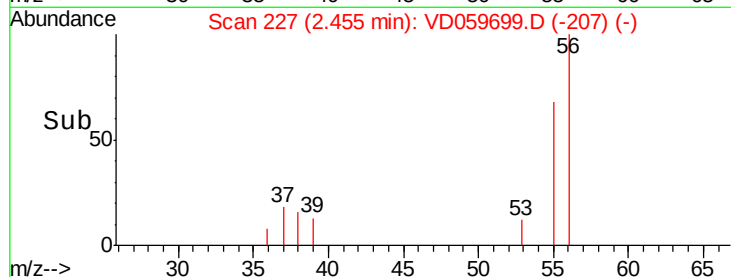
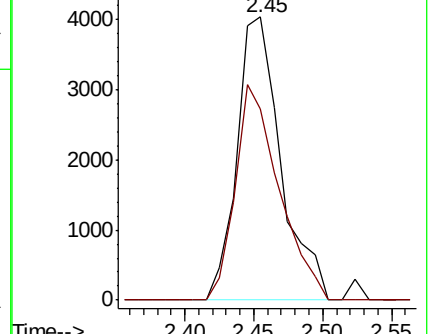
56 100

55 67.7 54.4 81.6



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 19.13 ug/l

RT: 2.90 min Scan# 272

Delta R.T. -0.00 min

Lab File: VD059699.D

Acq: 7 Aug 2018 12:29

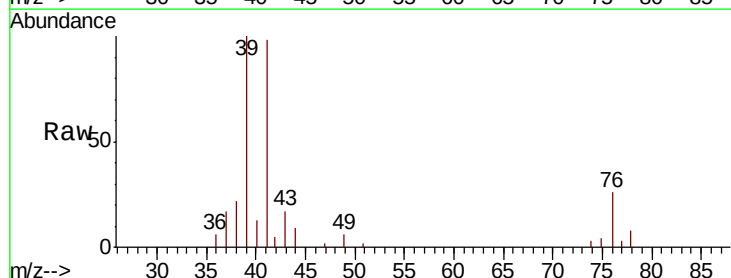
Tgt Ion: 41 Resp: 46272

Ion Ratio Lower Upper

41 100

39 101.8 82.5 123.7

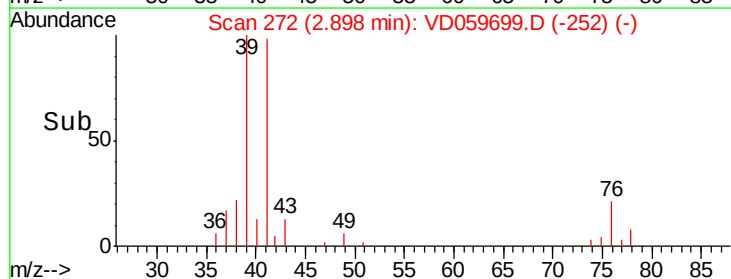
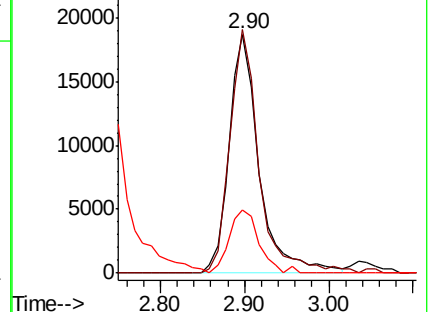
76 26.6 22.1 33.1

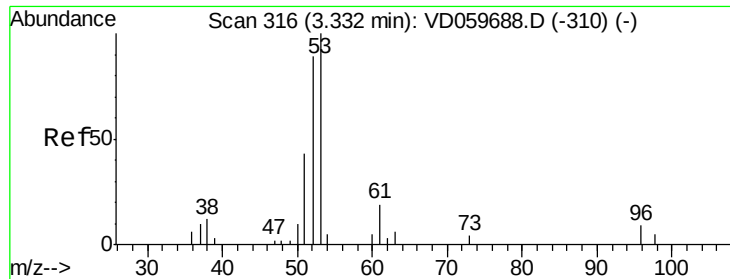


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 109.84 ug/l

RT: 3.33 min Scan# 316

Delta R.T. -0.00 min

Lab File: VD059699.D

Acq: 7 Aug 2018 12:29

Instrument :

MSVOA_D

ClientSampleId :

VD0807SBS01

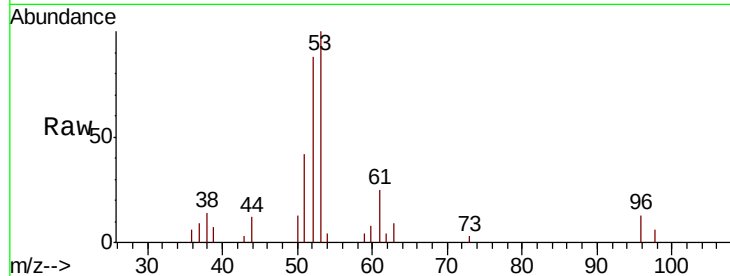
Tot Ion: 53 Resp: 30688

Ion Ratio Lower Upper

53 100

52 88.4 71.4 107.0

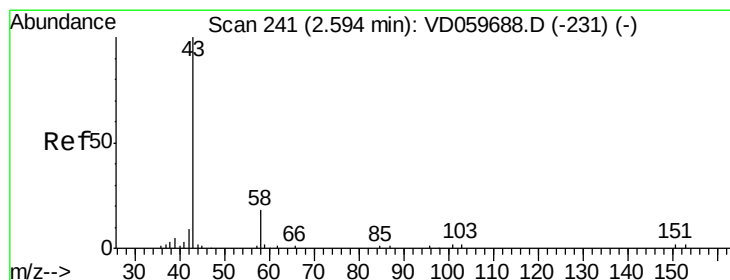
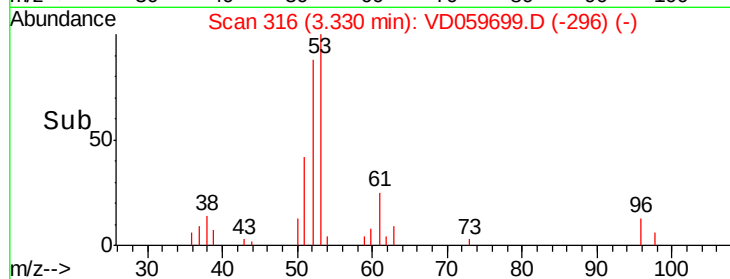
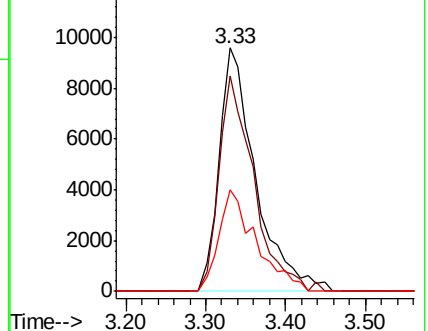
51 41.8 34.2 51.4



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: 94.37 ug/l

RT: 2.59 min Scan# 241

Delta R.T. -0.00 min

Lab File: VD059699.D

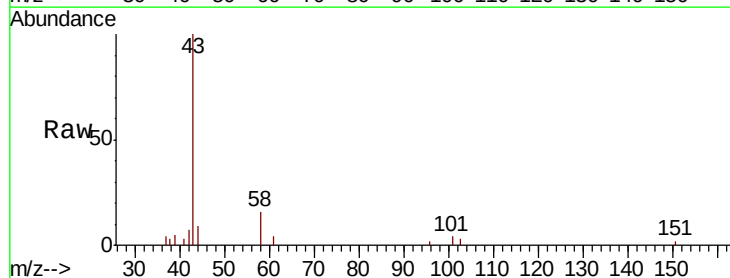
Acq: 7 Aug 2018 12:29

Tgt Ion: 43 Resp: 49073

Ion Ratio Lower Upper

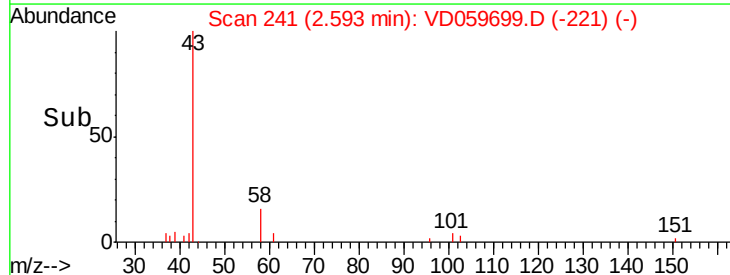
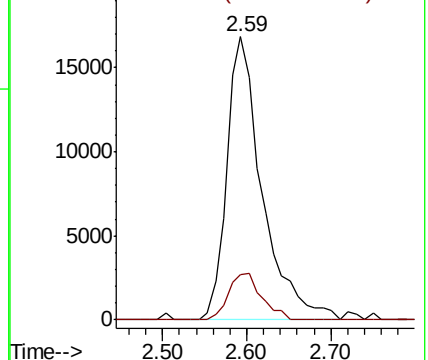
43 100

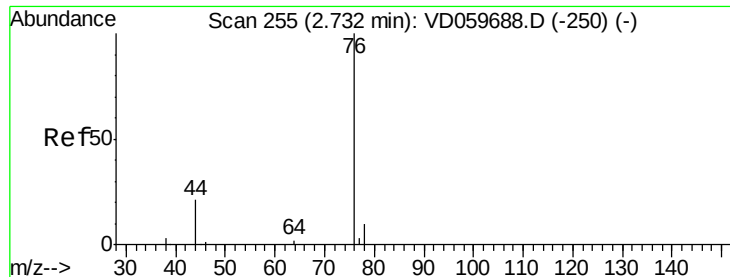
58 16.0 14.2 21.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#17

Carbon Disulfide

Concen: 16.87 ug/l

RT: 2.73 min Scan# 255

Delta R.T. -0.00 min

Lab File: VD059699.D

Acq: 7 Aug 2018 12:29

Instrument :

MSVOA_D

ClientSampleId :

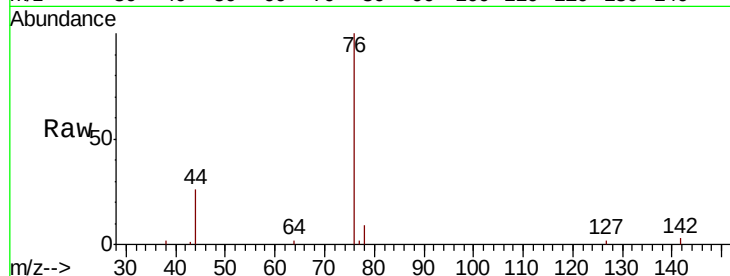
VD0807SBS01

Tot Ion: 76 Resp: 64419

Ion Ratio Lower Upper

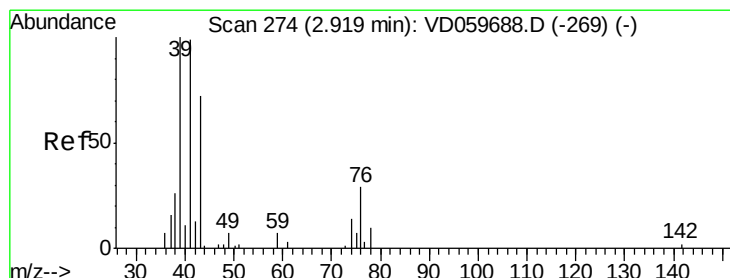
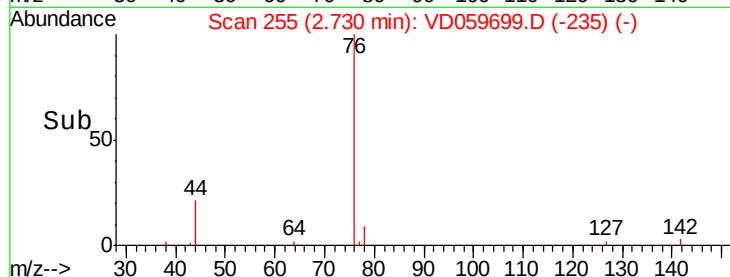
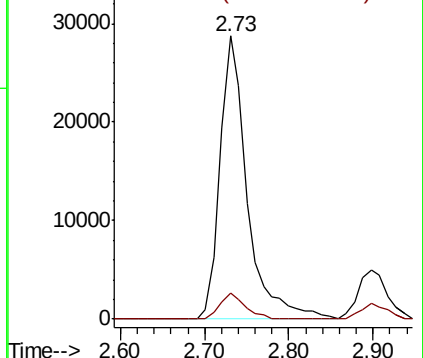
76 100

78 9.1 7.7 11.5



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 17.28 ug/l

RT: 2.91 min Scan# 273

Delta R.T. -0.01 min

Lab File: VD059699.D

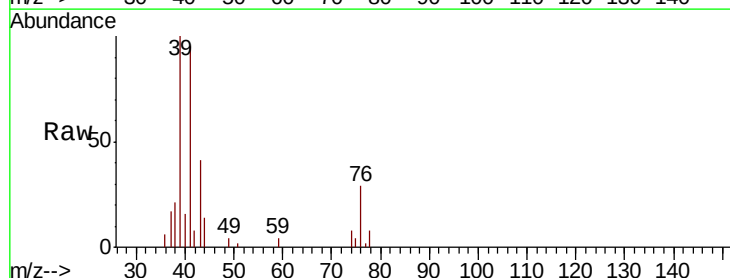
Acq: 7 Aug 2018 12:29

Tgt Ion: 43 Resp: 16600

Ion Ratio Lower Upper

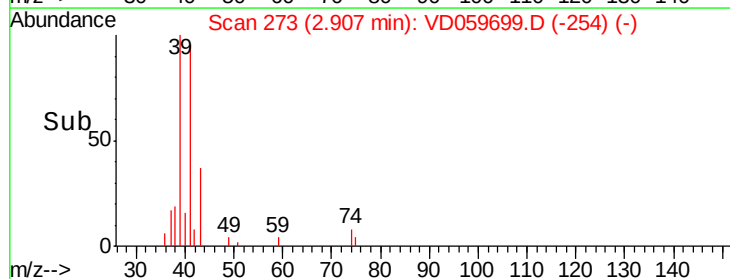
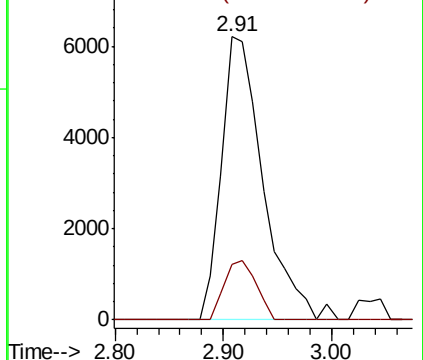
43 100

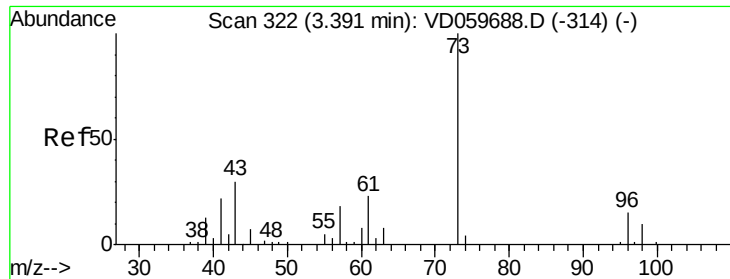
74 19.5 15.7 23.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

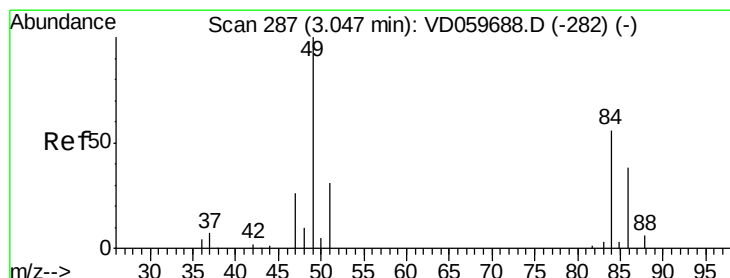
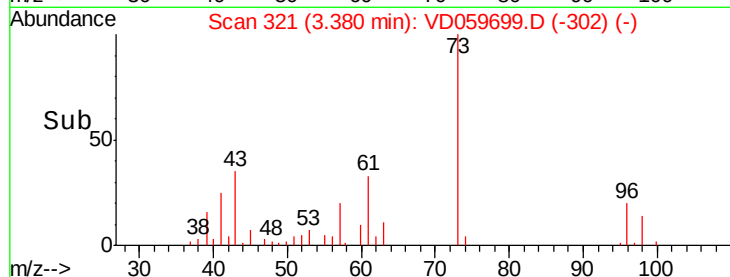
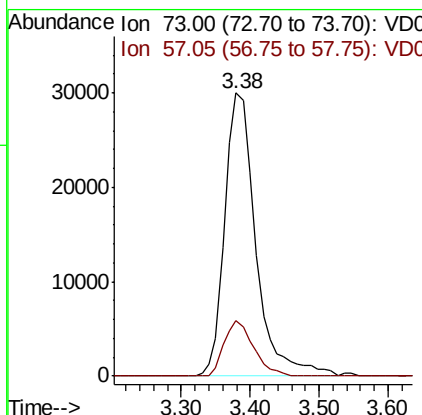
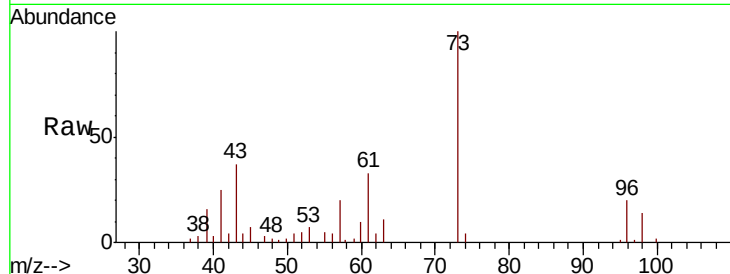




#19
Methyl tert-butyl Ether
Concen: 23.23 ug/l
RT: 3.38 min Scan# 321
Delta R.T. -0.01 min
Lab File: VD059699.D
Acq: 7 Aug 2018 12:29

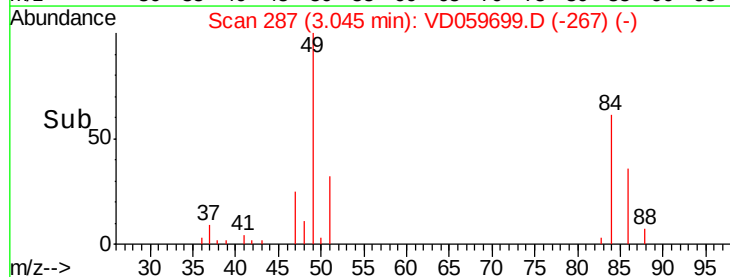
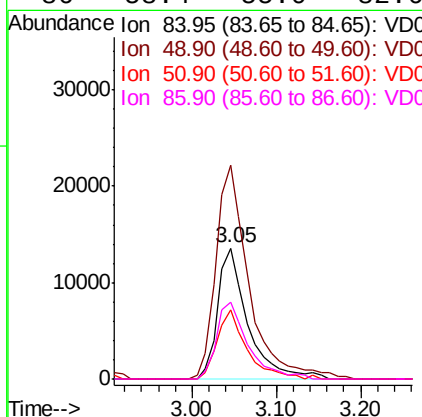
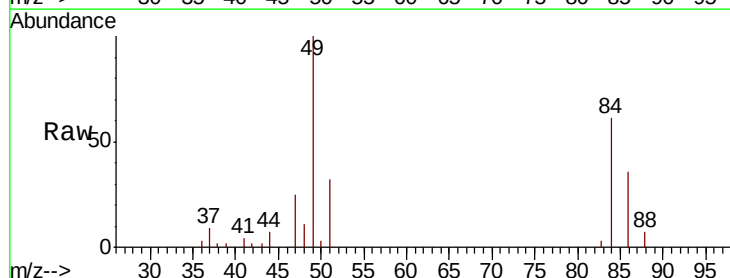
Instrument :
MSVOA_D
ClientSampleId :
VD0807SBS01

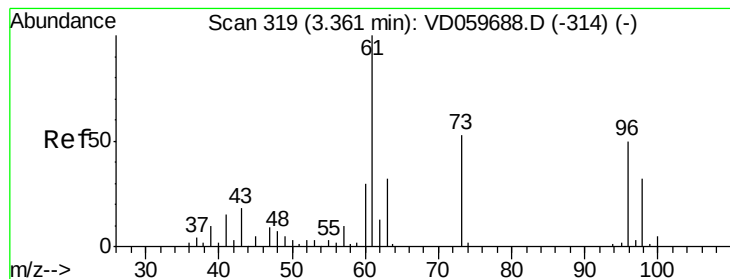
Tot Ion: 73 Resp: 93696
Ion Ratio Lower Upper
73 100
57 19.8 14.3 21.5



#20
Methylene Chloride
Concen: 16.86 ug/l
RT: 3.05 min Scan# 287
Delta R.T. -0.00 min
Lab File: VD059699.D
Acq: 7 Aug 2018 12:29

Tgt Ion: 84 Resp: 33728
Ion Ratio Lower Upper
84 100
49 162.9 143.4 215.2
51 52.3 44.2 66.4
86 58.4 55.0 82.6





#21

trans-1,2-Dichloroethene

Concen: 21.73 ug/l

RT: 3.36 min Scan# 319

Delta R.T. -0.00 min

Lab File: VD059699.D

Acq: 7 Aug 2018 12:29

Instrument :

MSVOA_D

ClientSampleId :

VD0807SBS01

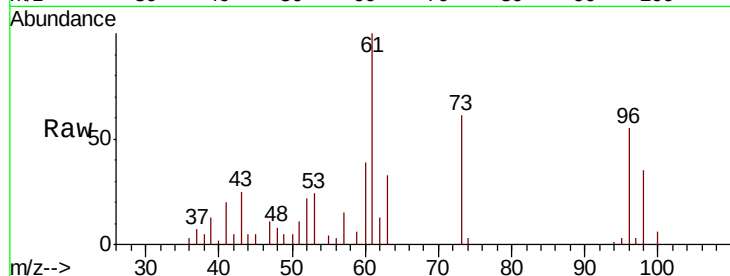
Tot Ion: 96 Resp: 30067

Ion Ratio Lower Upper

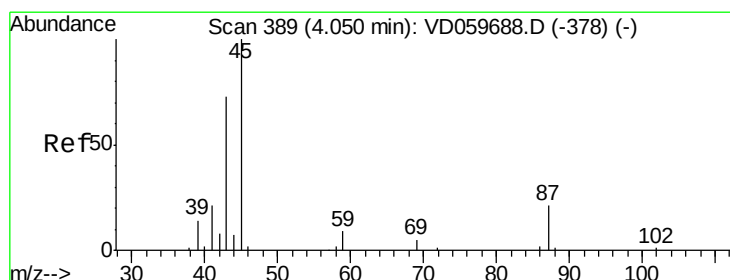
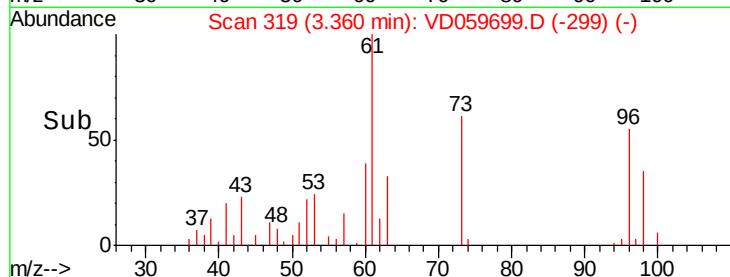
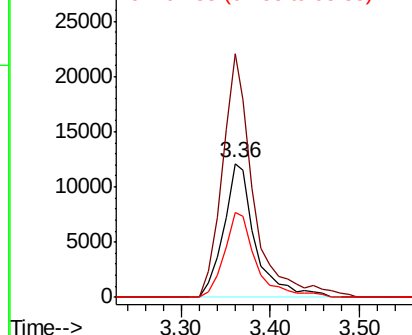
96 100

61 182.3 160.6 241.0

98 63.9 50.9 76.3



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: 19.99 ug/l

RT: 4.05 min Scan# 389

Delta R.T. -0.00 min

Lab File: VD059699.D

Acq: 7 Aug 2018 12:29

Tgt Ion: 45 Resp: 113708

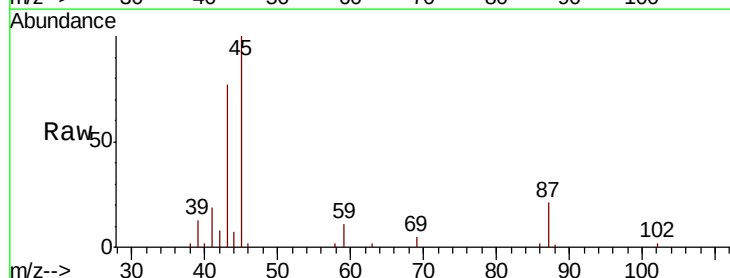
Ion Ratio Lower Upper

45 100

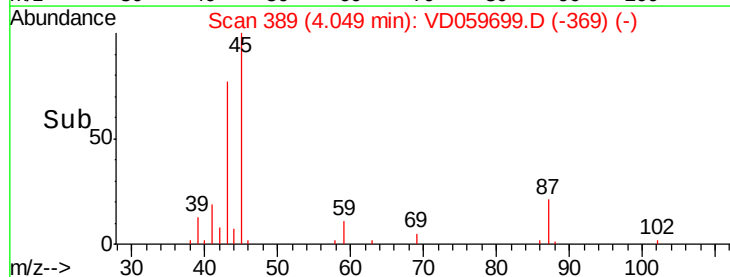
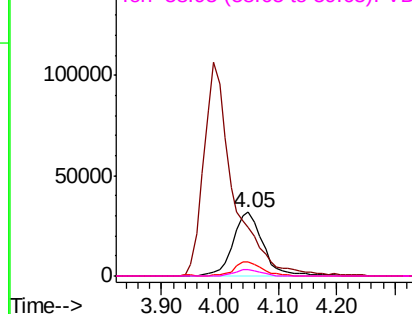
43 76.6 60.3 90.5

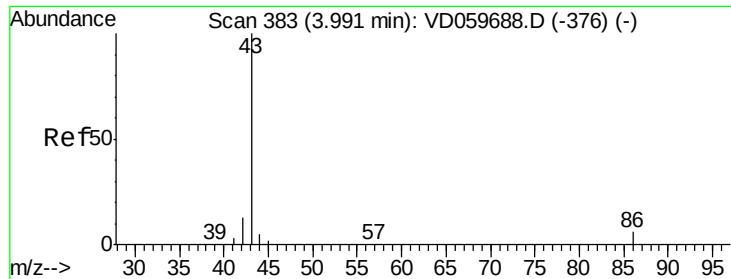
87 21.5 17.0 25.6

59 10.6 7.9 11.9



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: 103.29 ug/l

RT: 3.99 min Scan# 383

Delta R.T. -0.00 min

Lab File: VD059699.D

Acq: 7 Aug 2018 12:29

Instrument :

MSVOA_D

ClientSampleId :

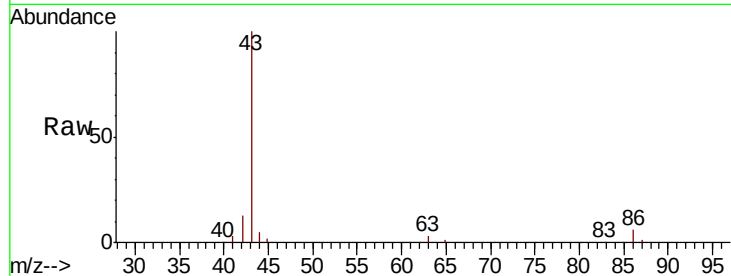
VD0807SBS01

Tot Ion: 43 Resp: 372583

Ion Ratio Lower Upper

43 100

86 6.5 4.8 7.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC

3.99

120000

100000

80000

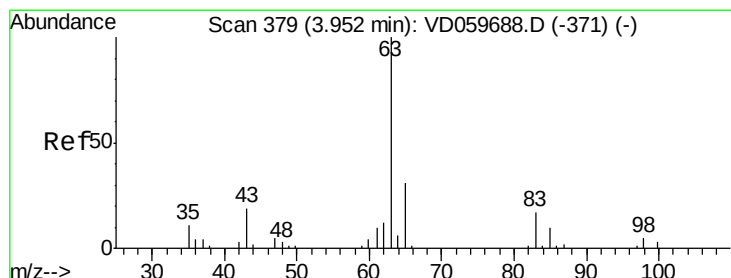
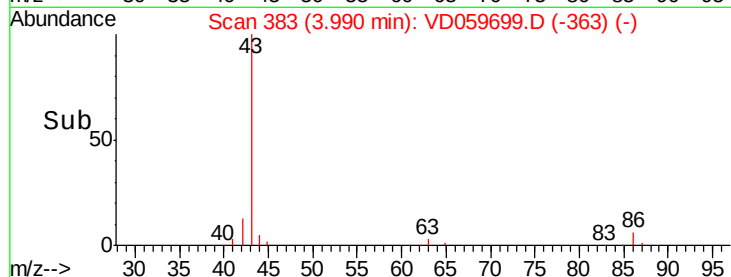
60000

40000

20000

0

Time-->



#24

1,1-Dichloroethane

Concen: 19.56 ug/l

RT: 3.95 min Scan# 379

Delta R.T. -0.00 min

Lab File: VD059699.D

Acq: 7 Aug 2018 12:29

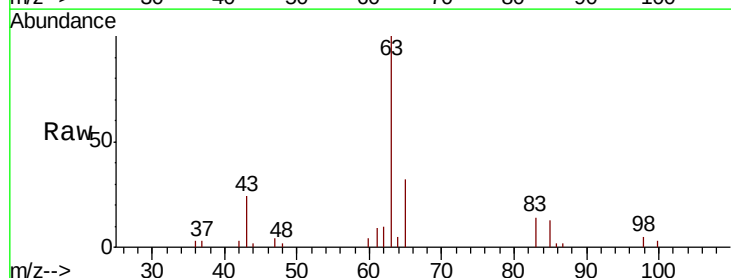
Tgt Ion: 63 Resp: 73667

Ion Ratio Lower Upper

63 100

98 4.9 2.4 7.1

100 2.7 1.6 4.8



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

3.95

30000

25000

20000

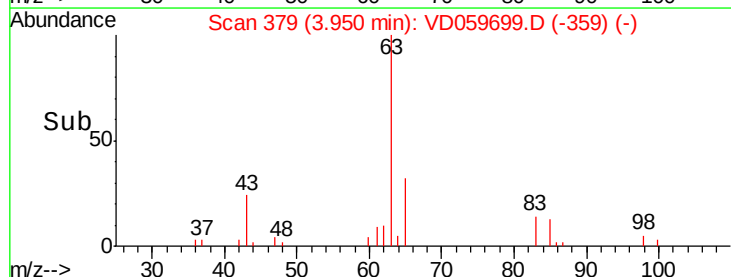
15000

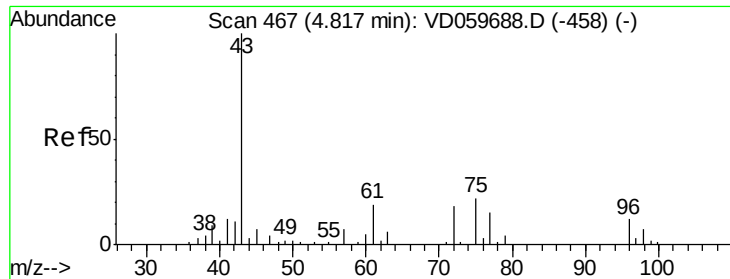
10000

5000

0

Time-->





#25

2-Butanone

Concen: 90.81 ug/l

RT: 4.82 min Scan# 467

Delta R.T. -0.00 min

Lab File: VD059699.D

Acq: 7 Aug 2018 12:29

Instrument :

MSVOA_D

ClientSampleId :

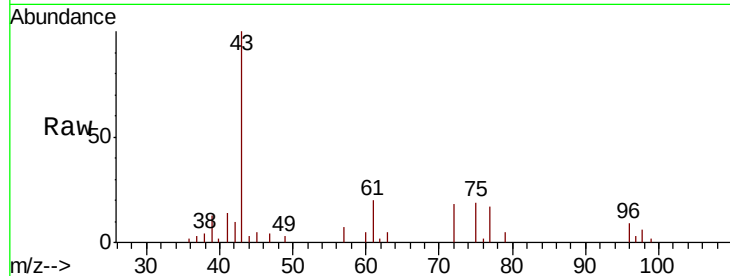
VD0807SBS01

Tot Ion: 43 Resp: 62024

Ion Ratio Lower Upper

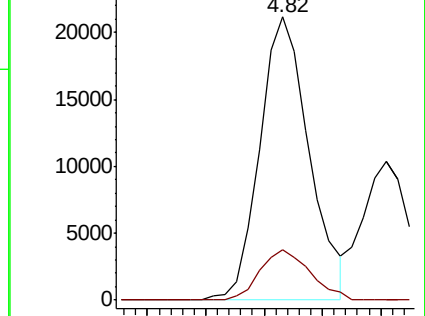
43 100

72 17.7 14.6 21.8

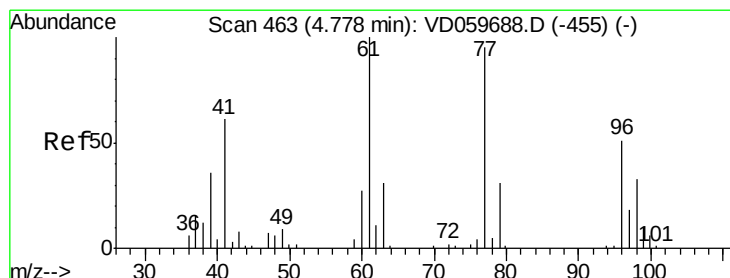
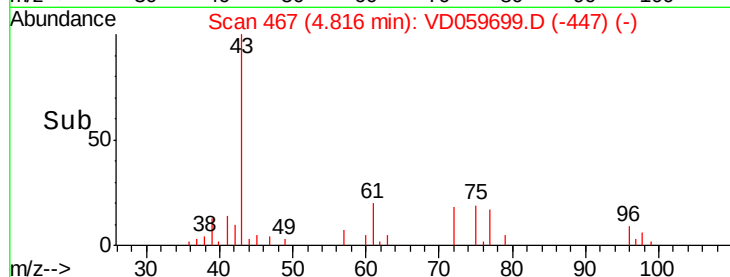


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



Time-->



#26

2,2-Dichloropropane

Concen: 19.43 ug/l

RT: 4.78 min Scan# 463

Delta R.T. -0.00 min

Lab File: VD059699.D

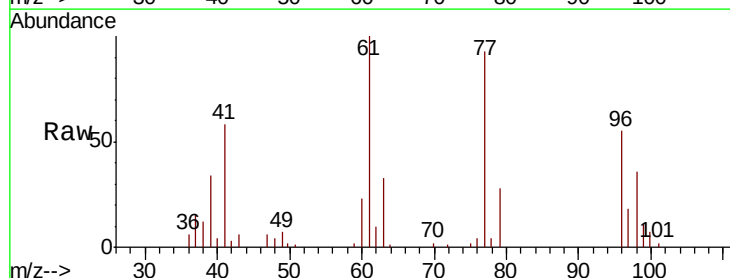
Acq: 7 Aug 2018 12:29

Tgt Ion: 77 Resp: 78135

Ion Ratio Lower Upper

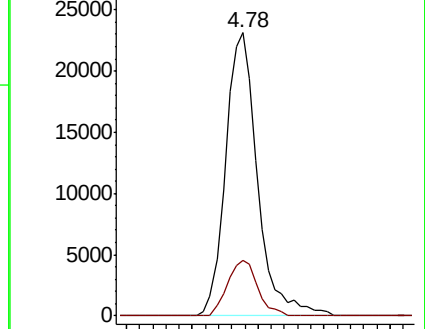
77 100

97 19.5 9.4 28.3

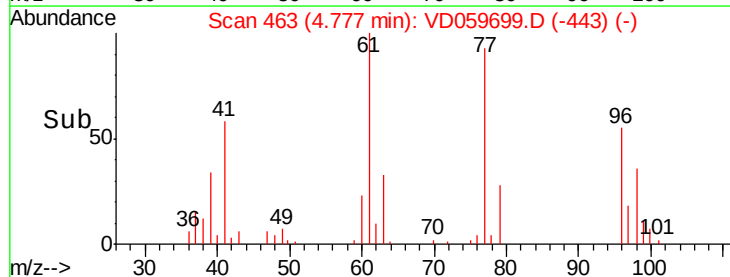


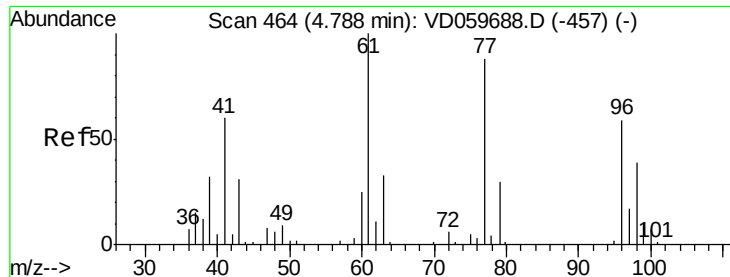
Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



Time-->





#27

cis-1,2-Dichloroethene

Concen: 19.90 ug/l

RT: 4.78 min Scan# 463

Delta R.T. -0.01 min

Lab File: VD059699.D

Acq: 7 Aug 2018 12:29

Instrument :

MSVOA_D

ClientSampleId :

VD0807SBS01

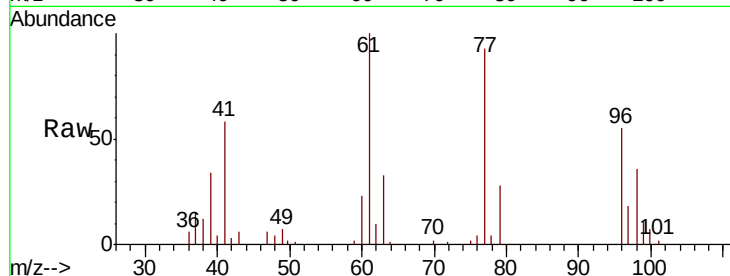
Tot Ion: 96 Resp: 39980

Ion Ratio Lower Upper

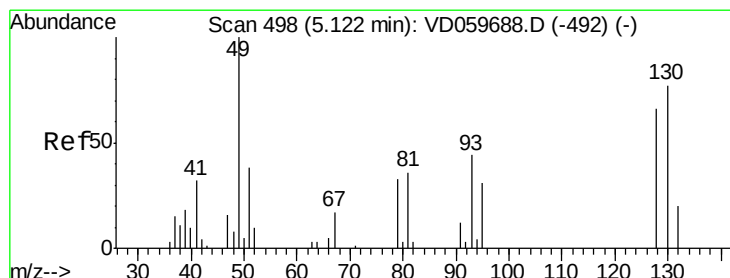
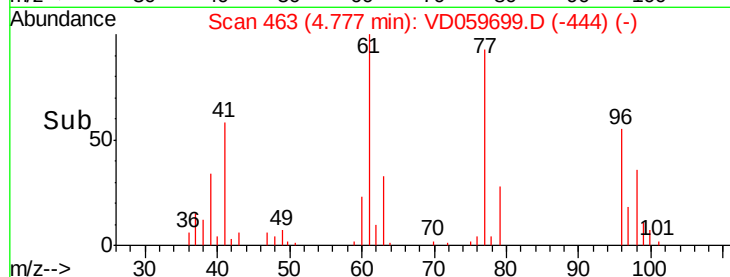
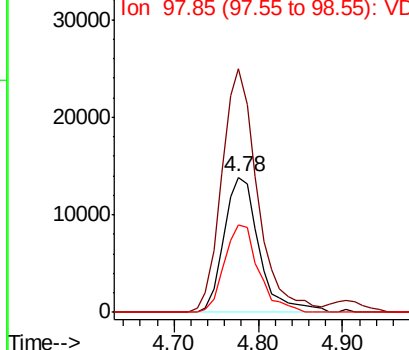
96 100

61 180.5 0.0 341.6

98 65.0 0.0 131.0



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: 22.03 ug/l

RT: 5.12 min Scan# 498

Delta R.T. -0.00 min

Lab File: VD059699.D

Acq: 7 Aug 2018 12:29

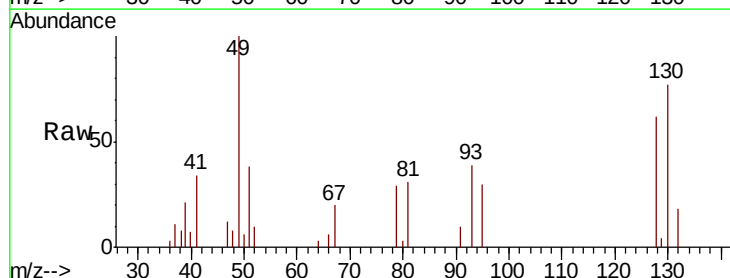
Tgt Ion: 49 Resp: 30634

Ion Ratio Lower Upper

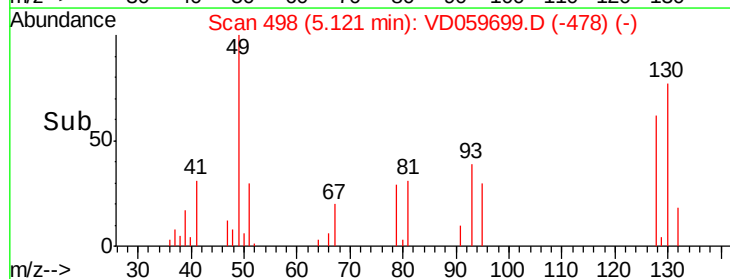
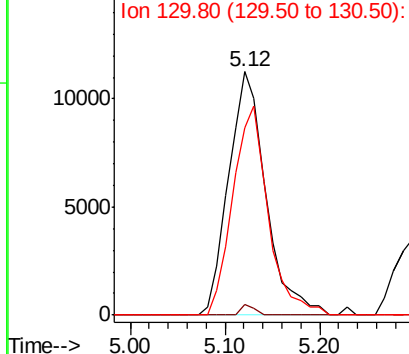
49 100

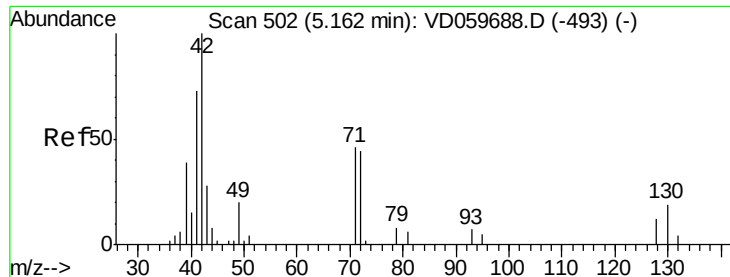
129 4.3 0.0 0.0#

130 76.9 61.2 91.8



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: 107.95 ug/l

RT: 5.16 min Scan# 502

Delta R.T. -0.00 min

Lab File: VD059699.D

Acq: 7 Aug 2018 12:29

Instrument :

MSVOA_D

ClientSampleId :

VD0807SBS01

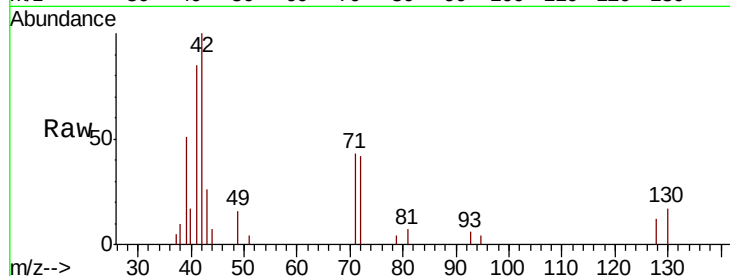
Tot Ion: 42 Resp: 28556

Ion Ratio Lower Upper

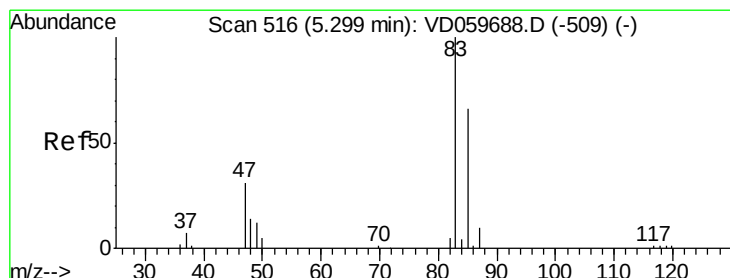
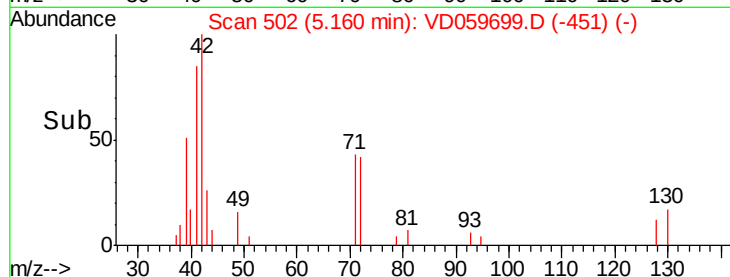
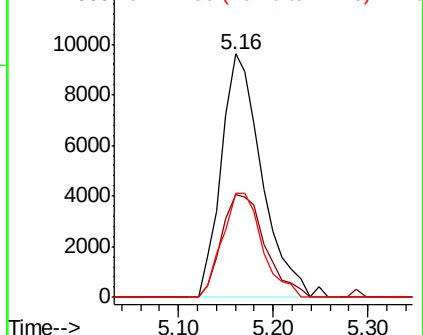
42 100

72 45.2 36.7 55.1

71 41.7 36.3 54.5



Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC



#30

Chloroform

Concen: 19.79 ug/l

RT: 5.30 min Scan# 516

Delta R.T. -0.00 min

Lab File: VD059699.D

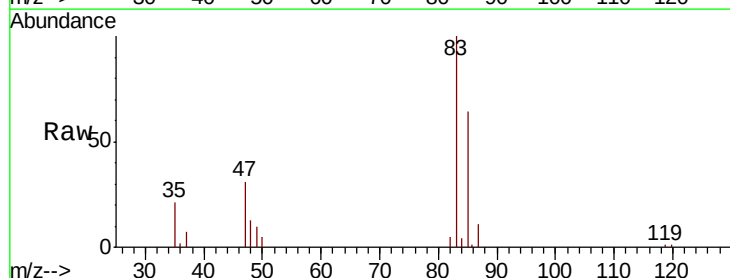
Acq: 7 Aug 2018 12:29

Tgt Ion: 83 Resp: 90828

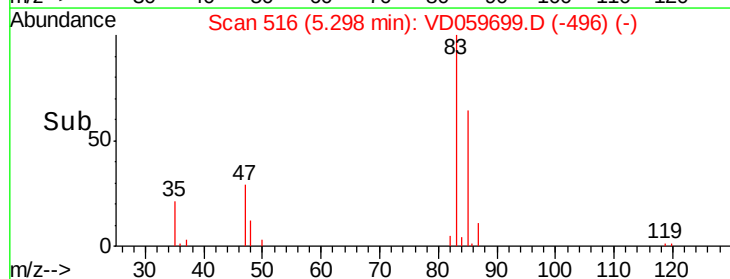
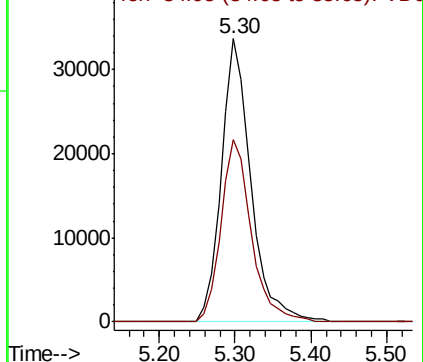
Ion Ratio Lower Upper

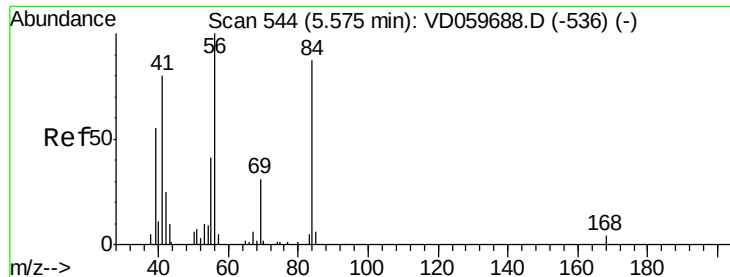
83 100

85 64.2 52.6 79.0



Abundance Ion 82.95 (82.65 to 83.65): VDC
Ion 84.95 (84.65 to 85.65): VDC





#31

Cyclohexane

Concen: 17.77 ug/l

RT: 5.57 min Scan# 544

Delta R.T. -0.00 min

Lab File: VD059699.D

Acq: 7 Aug 2018 12:29

Instrument :

MSVOA_D

ClientSampleId :

VD0807SBS01

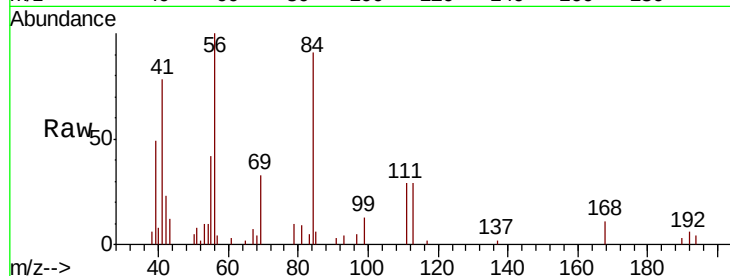
Tot Ion: 56 Resp: 48878

Ion Ratio Lower Upper

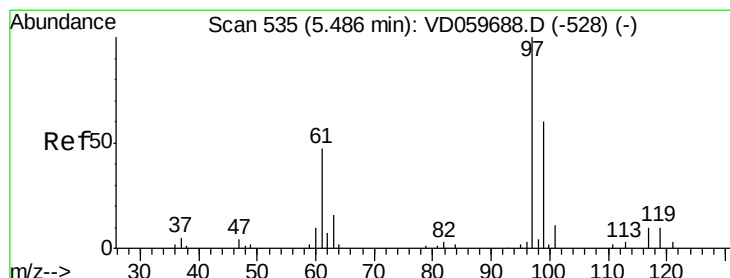
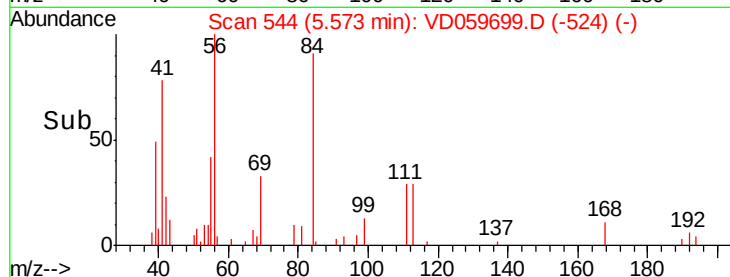
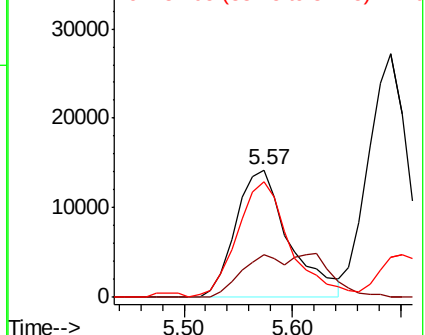
56 100

69 33.1 24.7 37.1

84 90.7 72.2 108.2



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC



#32

1,1,1-Trichloroethane

Concen: 18.43 ug/l

RT: 5.48 min Scan# 535

Delta R.T. -0.00 min

Lab File: VD059699.D

Acq: 7 Aug 2018 12:29

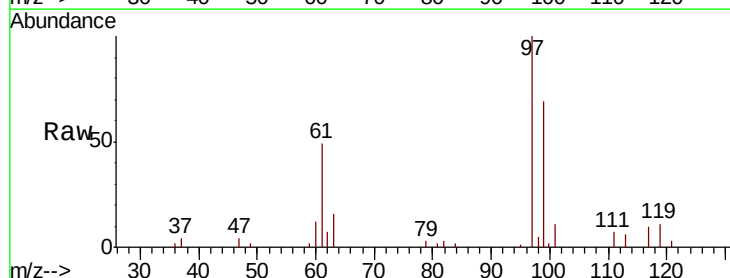
Tgt Ion: 97 Resp: 82263

Ion Ratio Lower Upper

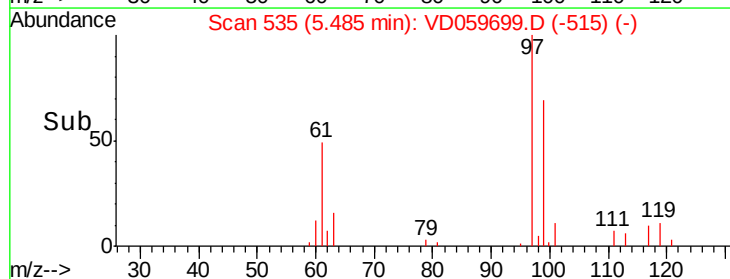
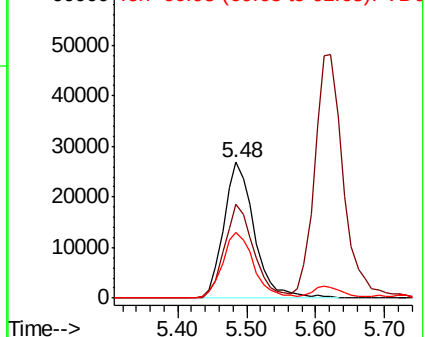
97 100

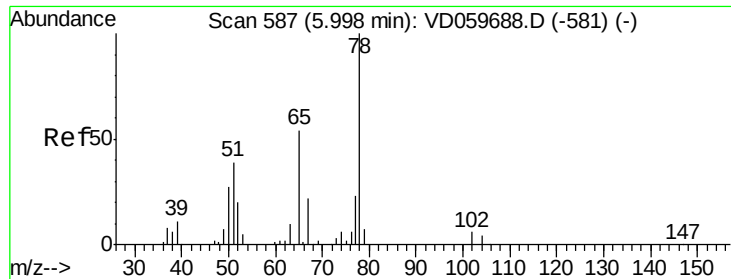
99 68.7 48.2 72.2

61 48.5 37.5 56.3



Abundance Ion 96.85 (96.55 to 97.55): VDC
Ion 98.85 (98.55 to 99.55): VDC
Ion 60.95 (60.65 to 61.65): VDC

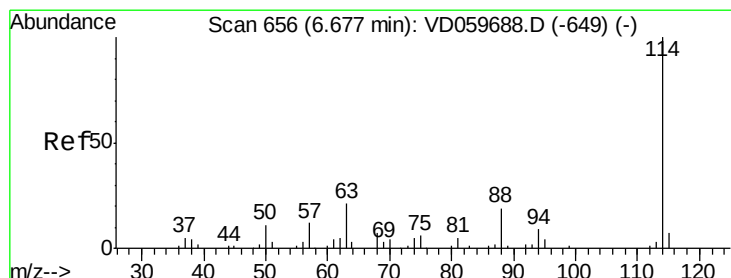
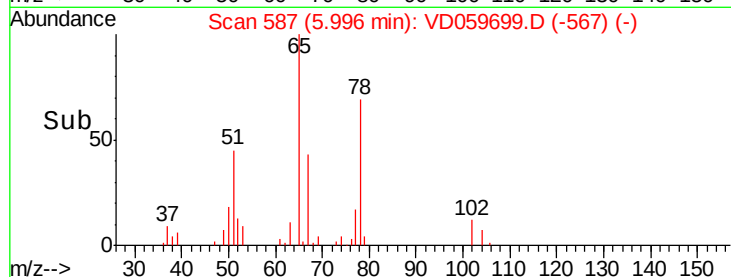
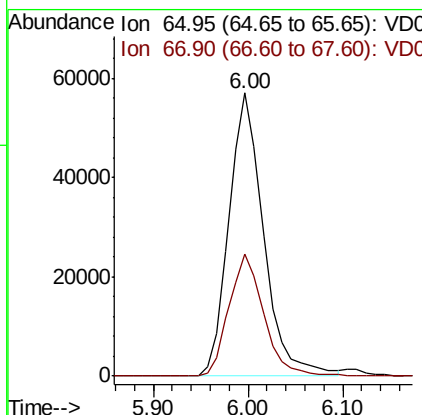
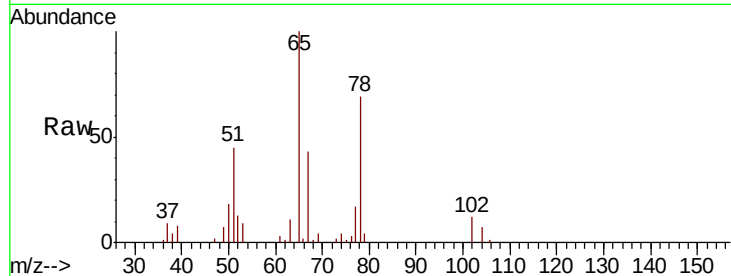




#33
 1,2-Dichloroethane-d4
 Concen: 18.43 ug/l
 RT: 6.00 min Scan# 587
 Delta R.T. -0.00 min
 Lab File: VD059699.D
 Acq: 7 Aug 2018 12:29

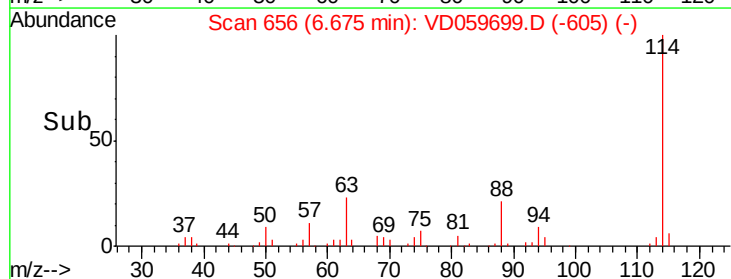
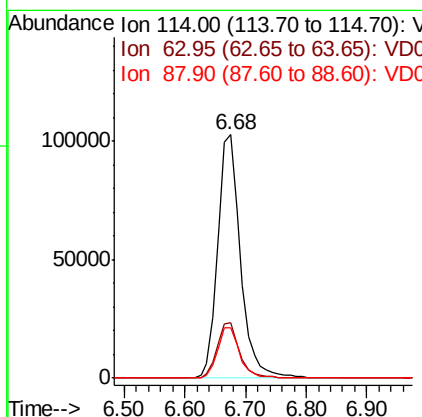
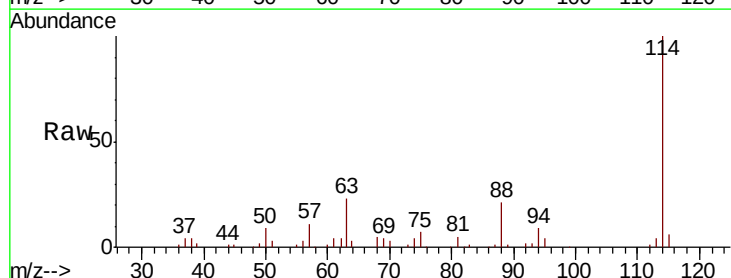
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0807SBS01

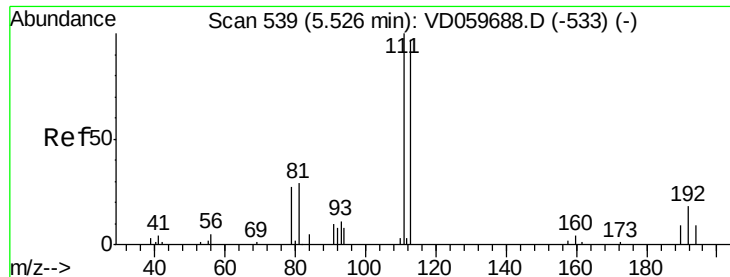
Tot Ion: 65 Resp: 144632
 Ion Ratio Lower Upper
 65 100
 67 43.1 0.0 80.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.68 min Scan# 656
 Delta R.T. -0.00 min
 Lab File: VD059699.D
 Acq: 7 Aug 2018 12:29

Tgt Ion: 114 Resp: 268353
 Ion Ratio Lower Upper
 114 100
 63 22.6 0.0 42.6
 88 20.6 0.0 38.8

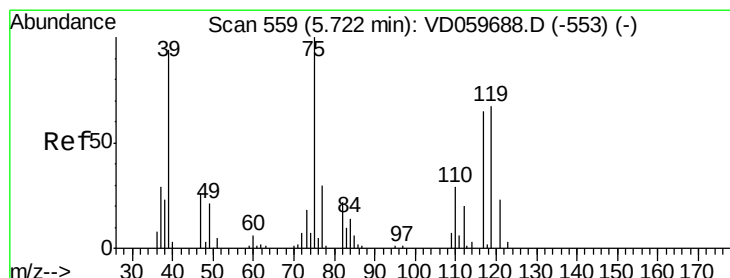
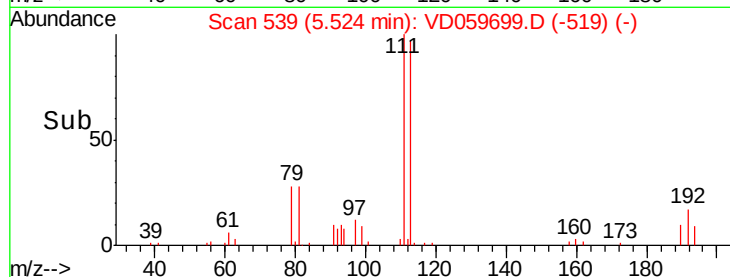
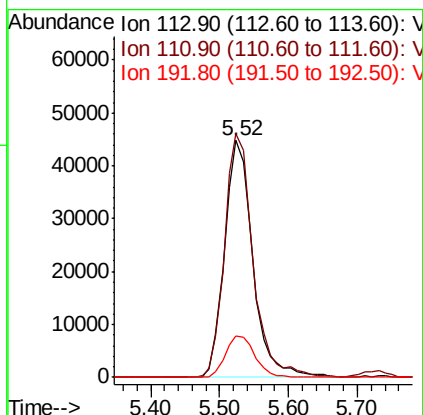
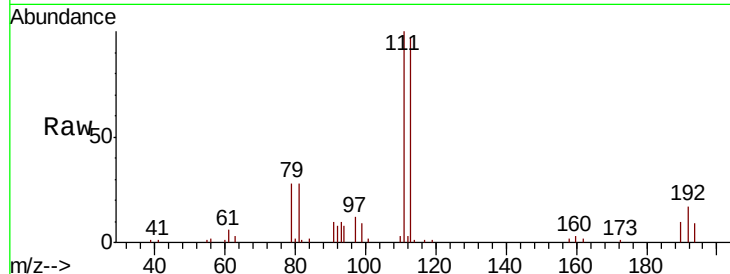




#35
 Dibromofluoromethane
 Concen: 50.00 ug/l
 RT: 5.52 min Scan# 539
 Delta R.T. -0.00 min
 Lab File: VD059699.D
 Acq: 7 Aug 2018 12:29

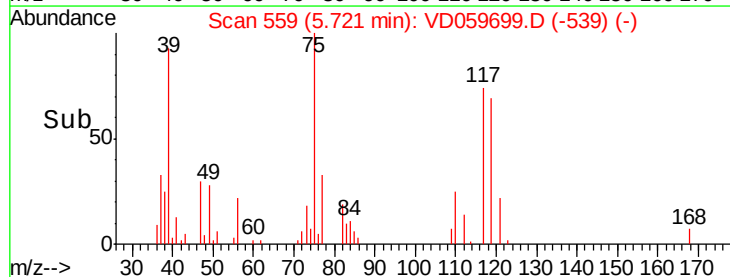
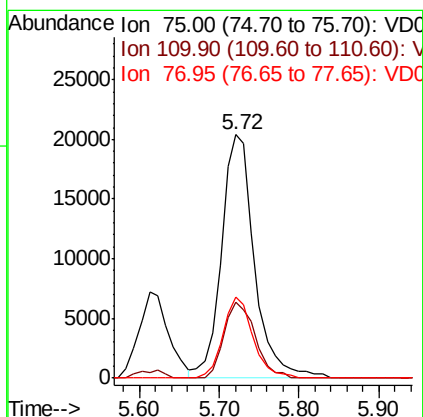
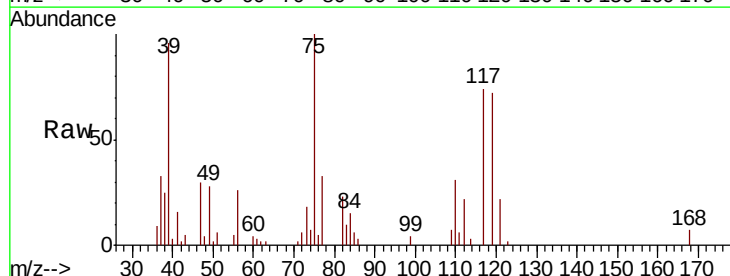
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0807SBS01

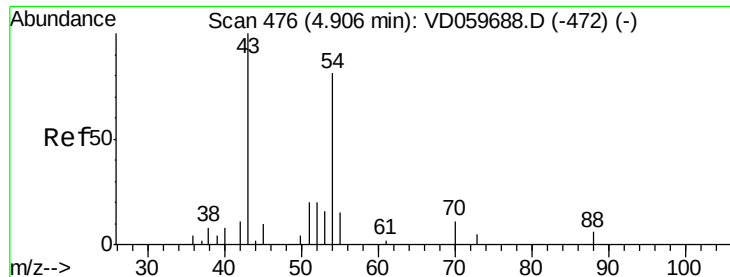
Tot Ion:113 Resp: 127788
 Ion Ratio Lower Upper
 113 100
 111 102.8 82.8 124.2
 192 17.3 14.6 22.0



#36
 1,1-Dichloropropene
 Concen: 19.83 ug/l
 RT: 5.72 min Scan# 559
 Delta R.T. -0.00 min
 Lab File: VD059699.D
 Acq: 7 Aug 2018 12:29

Tgt Ion: 75 Resp: 59160
 Ion Ratio Lower Upper
 75 100
 110 31.2 14.1 42.3
 77 33.4 23.9 35.9





#37

Ethyl Acetate

Concen: 21.95 ug/l

RT: 4.90 min Scan# 476

Delta R.T. -0.00 min

Lab File: VD059699.D

Acq: 7 Aug 2018 12:29

Instrument :

MSVOA_D

ClientSampleId :

VD0807SBS01

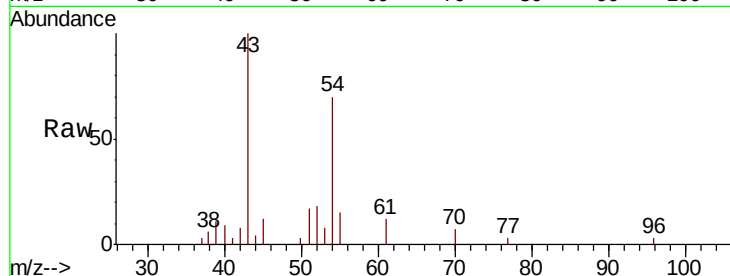
Tot Ion: 43 Resp: 31796

Ion Ratio Lower Upper

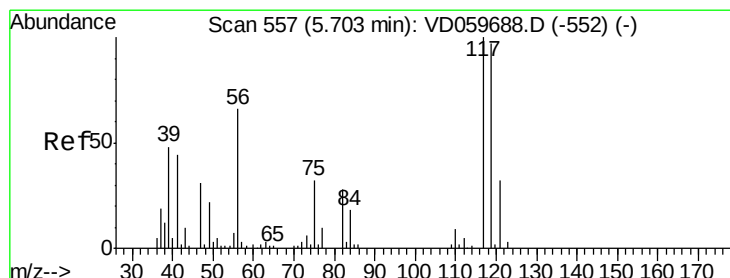
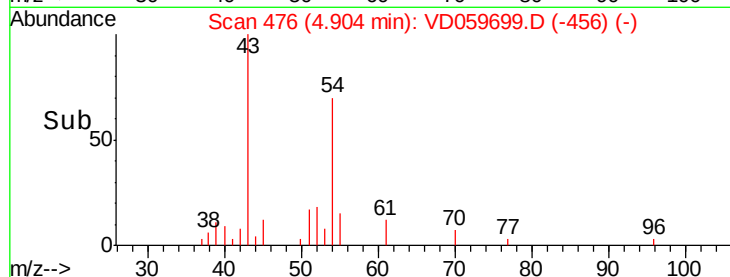
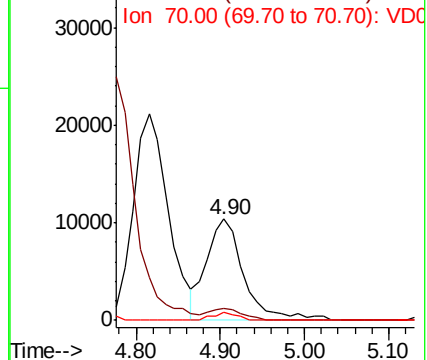
43 100

61 11.8 10.1 15.1

70 7.5 5.4 8.2



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: 19.33 ug/l

RT: 5.70 min Scan# 557

Delta R.T. -0.00 min

Lab File: VD059699.D

Acq: 7 Aug 2018 12:29

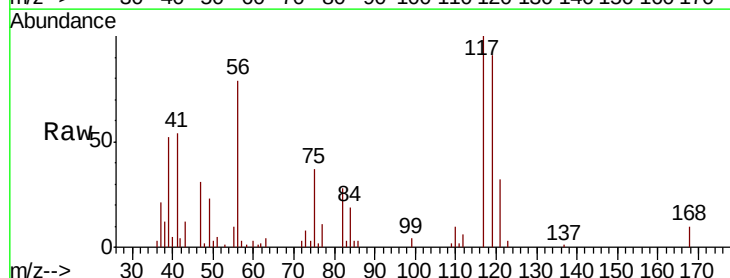
Tgt Ion: 117 Resp: 77175

Ion Ratio Lower Upper

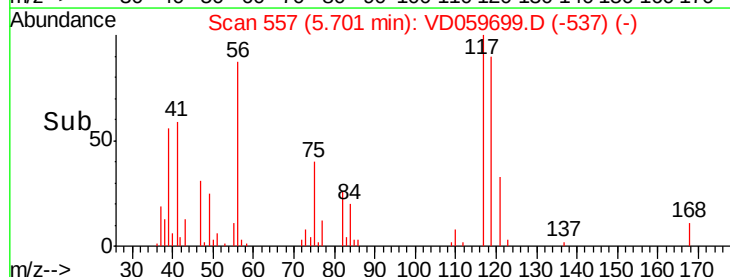
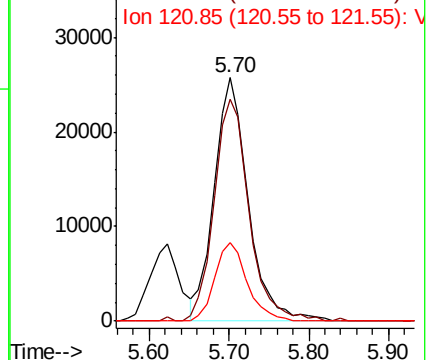
117 100

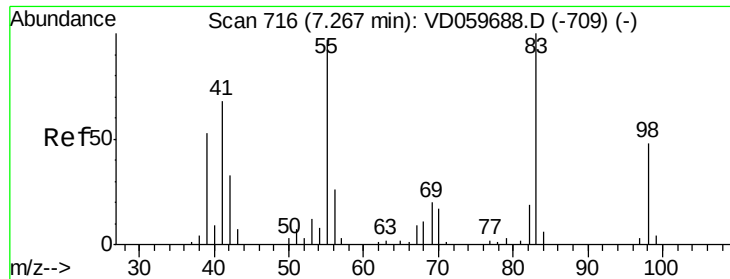
119 91.3 75.3 112.9

121 32.0 24.4 36.6



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

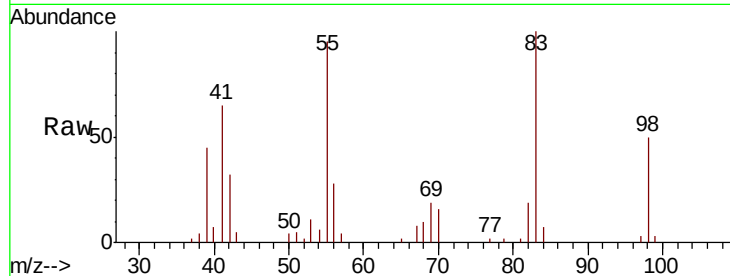




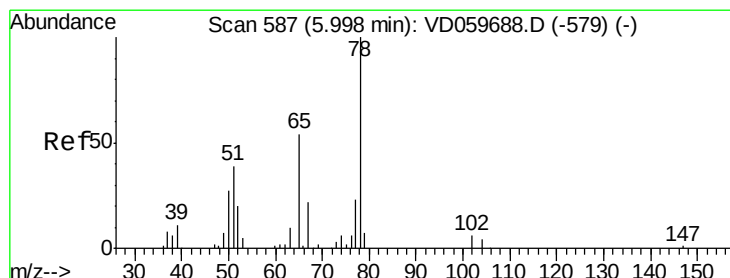
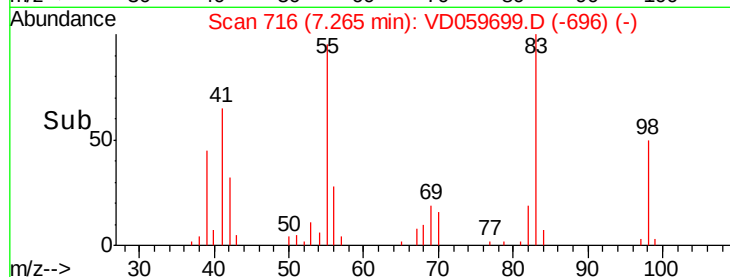
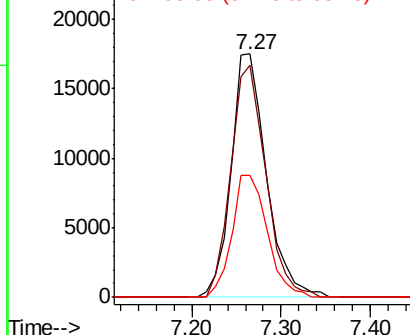
#39
Methylvlcyclohexane
Concen: 19.17 ug/l
RT: 7.27 min Scan# 716
Delta R.T. -0.00 min
Lab File: VD059699.D
Acq: 7 Aug 2018 12:29

Instrument :
MSVOA_D
ClientSampleId :
VD0807SBS01

Tot Ion: 83 Resp: 48331
Ion Ratio Lower Upper
83 100
55 95.3 77.7 116.5
98 50.0 38.7 58.1

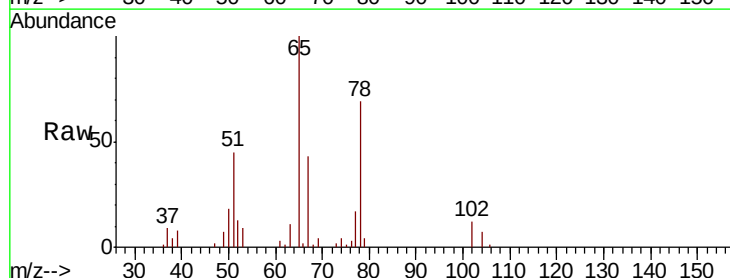


Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC

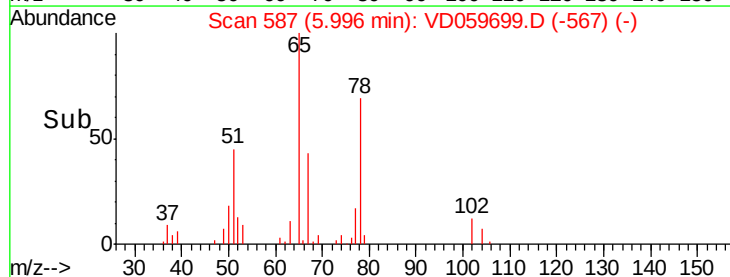
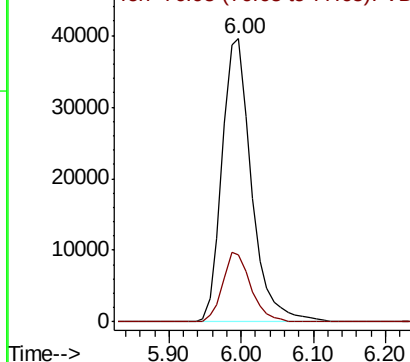


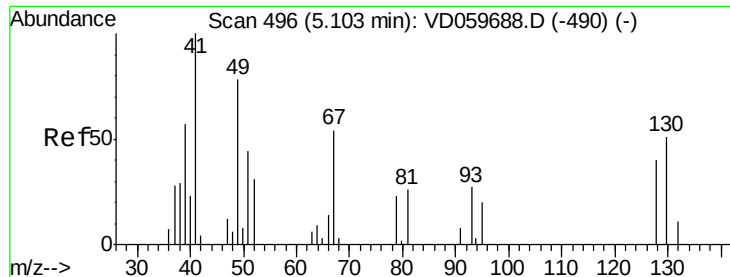
#40
Benzene
Concen: 19.38 ug/l
RT: 6.00 min Scan# 587
Delta R.T. -0.00 min
Lab File: VD059699.D
Acq: 7 Aug 2018 12:29

Tgt Ion: 78 Resp: 112122
Ion Ratio Lower Upper
78 100
77 23.9 18.4 27.6



Abundance Ion 77.95 (77.65 to 78.65): VDC
Ion 76.95 (76.65 to 77.65): VDC





#41

Methacrylonitrile

Concen: 21.73 ug/l

RT: 5.10 min Scan# 496

Delta R.T. -0.00 min

Lab File: VD059699.D

Acq: 7 Aug 2018 12:29

Instrument :

MSVOA_D

ClientSampleId :

VD0807SBS01

Tot Ion: 41 Resp: 14719

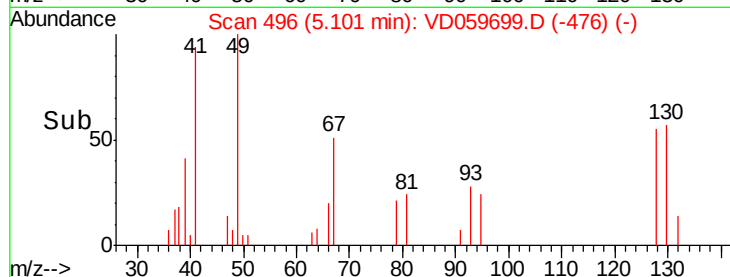
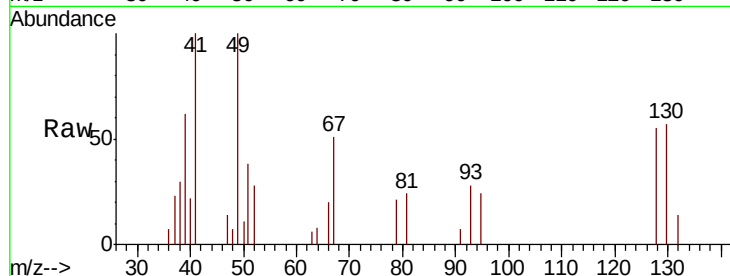
Ion Ratio Lower Upper

41 100

39 62.0 45.8 68.8

67 50.6 43.4 65.2

52 28.2 24.6 37.0

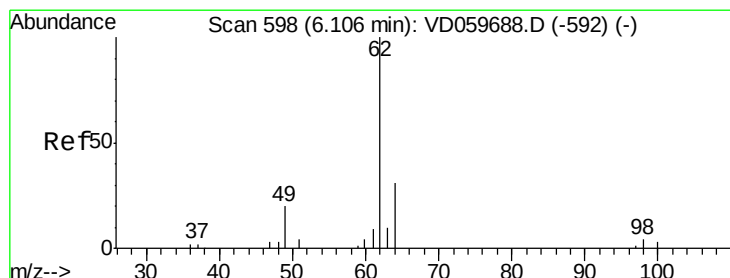
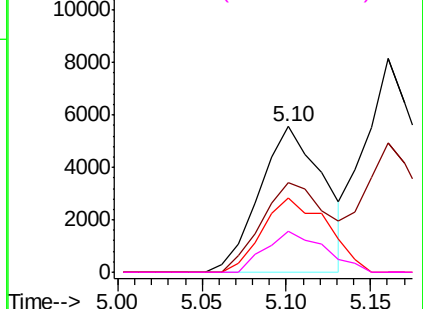


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#42

1,2-Dichloroethane

Concen: 19.52 ug/l

RT: 6.11 min Scan# 599

Delta R.T. 0.01 min

Lab File: VD059699.D

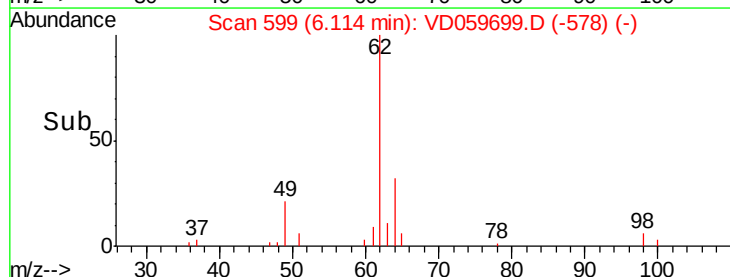
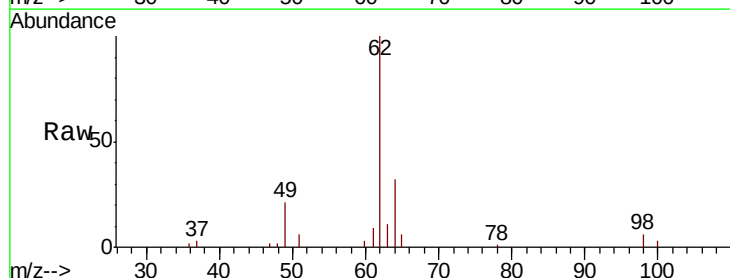
Acq: 7 Aug 2018 12:29

Tgt Ion: 62 Resp: 69823

Ion Ratio Lower Upper

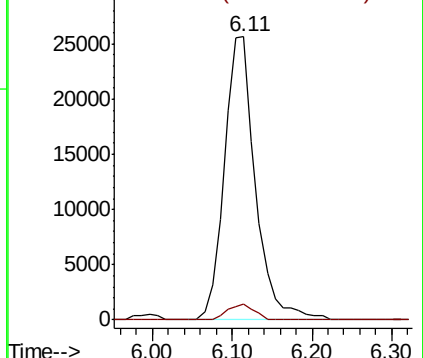
62 100

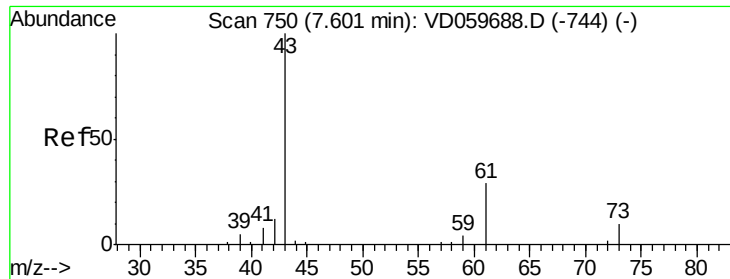
98 5.8 0.0 8.8



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 97.85 (97.55 to 98.55): VDC





#43

Isopropyl Acetate

Concen: 20.02 ug/l

RT: 7.60 min Scan# 750

Delta R.T. -0.00 min

Lab File: VD059699.D

Acq: 7 Aug 2018 12:29

Instrument :

MSVOA_D

ClientSampleId :

VD0807SBS01

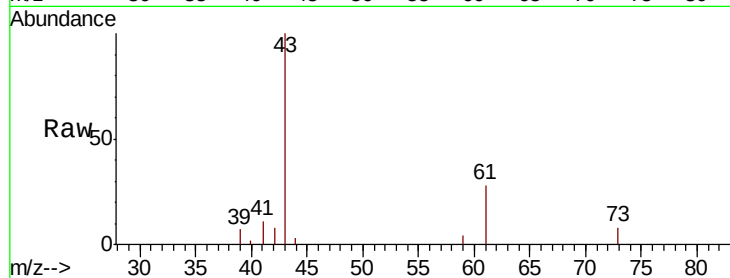
Tot Ion: 43 Resp: 37901

Ion Ratio Lower Upper

43 100

61 28.4 22.9 34.3

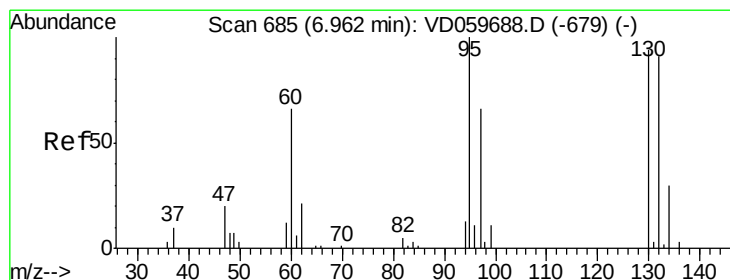
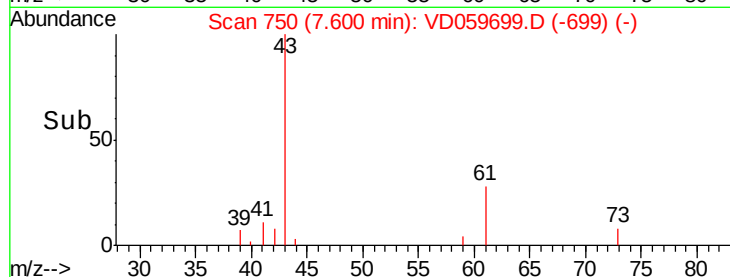
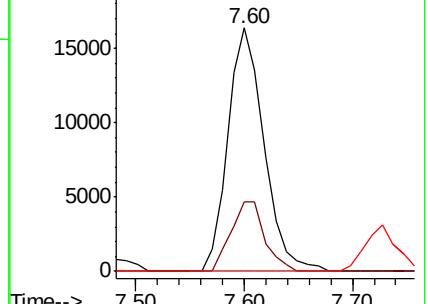
87 0.0 0.0 0.0



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: 19.62 ug/l

RT: 6.96 min Scan# 685

Delta R.T. -0.00 min

Lab File: VD059699.D

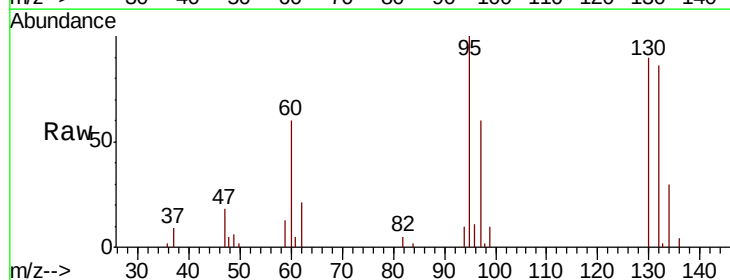
Acq: 7 Aug 2018 12:29

Tgt Ion:130 Resp: 41468

Ion Ratio Lower Upper

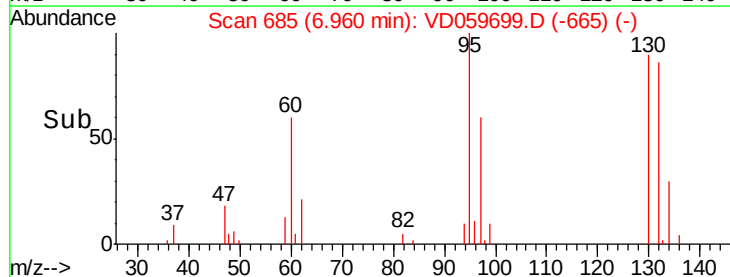
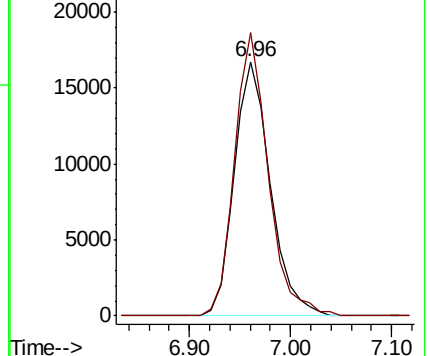
130 100

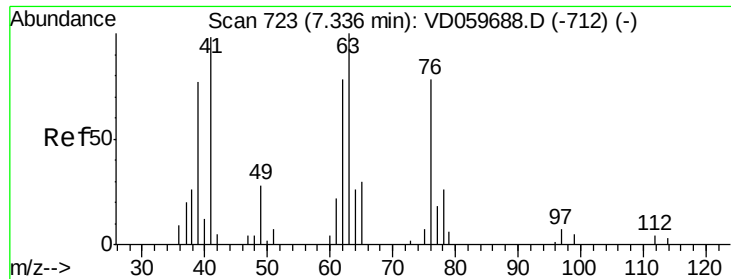
95 111.3 0.0 212.8



Abundance Ion 129.80 (129.50 to 130.50): VDC

Ion 94.90 (94.60 to 95.60): VDC

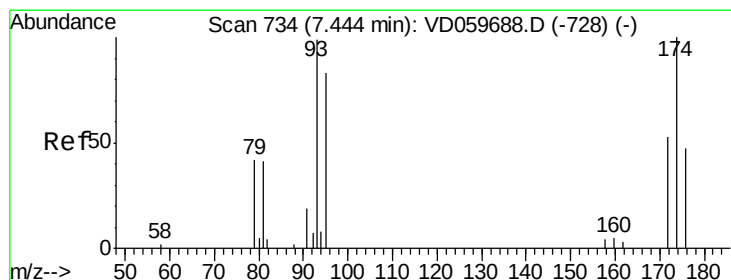
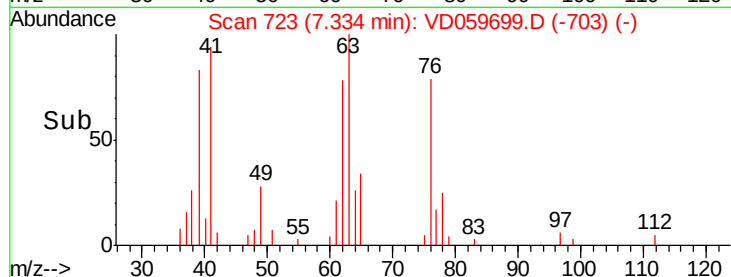
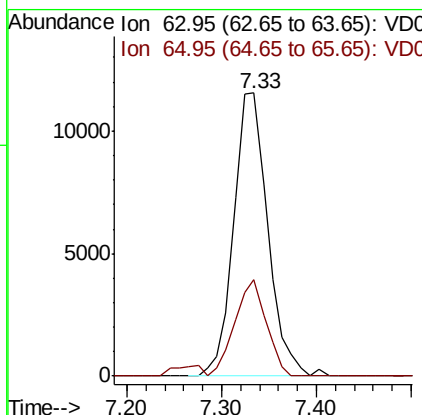
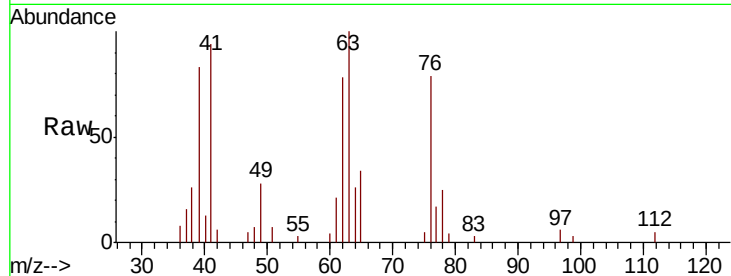




#45
 1,2-Dichloropropane
 Concen: 18.93 ug/l
 RT: 7.33 min Scan# 723
 Delta R.T. -0.00 min
 Lab File: VD059699.D
 Acq: 7 Aug 2018 12:29

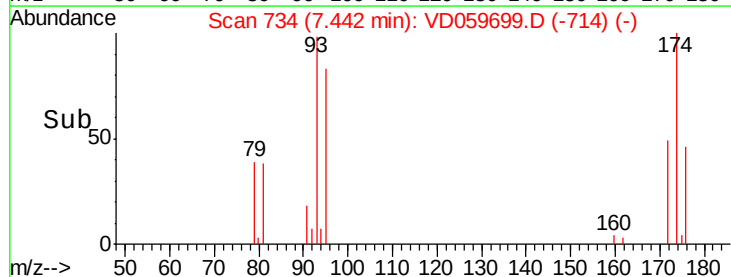
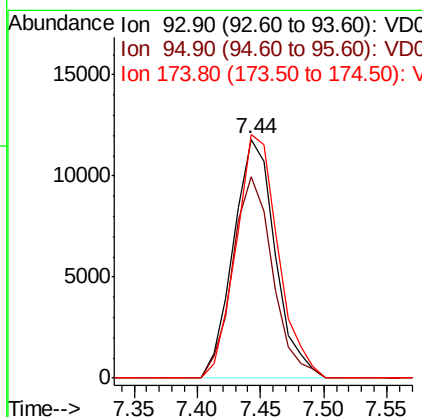
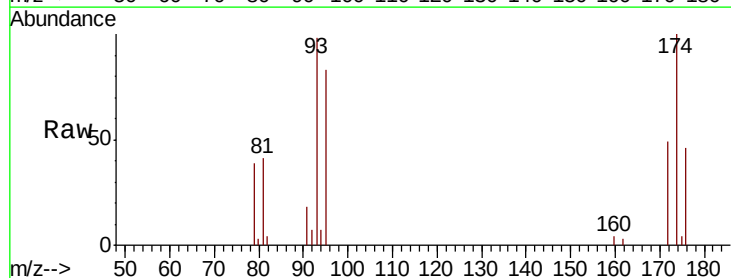
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0807SBS01

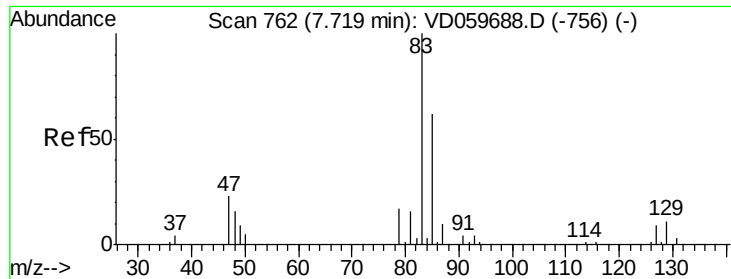
Tot Ion: 63 Resp: 28923
 Ion Ratio Lower Upper
 63 100
 65 34.2 24.2 36.4



#46
 Dibromomethane
 Concen: 20.47 ug/l
 RT: 7.44 min Scan# 734
 Delta R.T. -0.00 min
 Lab File: VD059699.D
 Acq: 7 Aug 2018 12:29

Tgt Ion: 93 Resp: 27100
 Ion Ratio Lower Upper
 93 100
 95 84.2 66.6 100.0
 174 102.0 80.6 120.8





#47

Bromodichloromethane

Concen: 19.25 ug/l

RT: 7.73 min Scan# 763

Delta R.T. 0.01 min

Lab File: VD059699.D

Acq: 7 Aug 2018 12:29

Instrument :

MSVOA_D

ClientSampleId :

VD0807SBS01

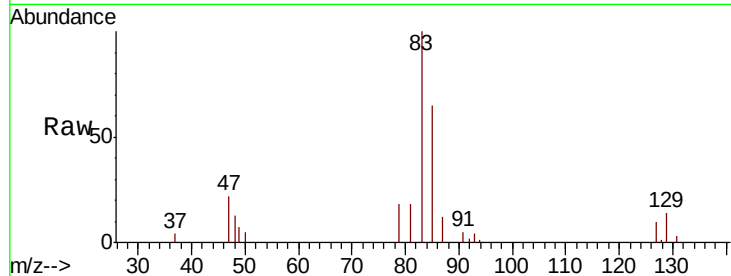
Tot Ion: 83 Resp: 64906

Ion Ratio Lower Upper

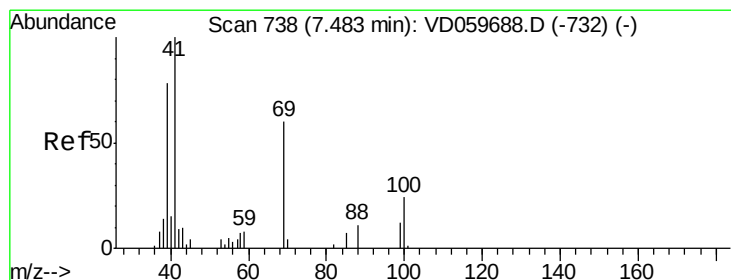
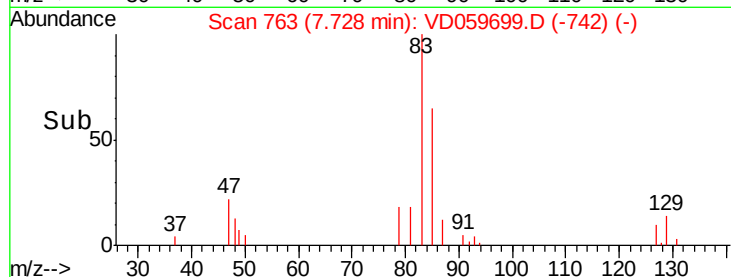
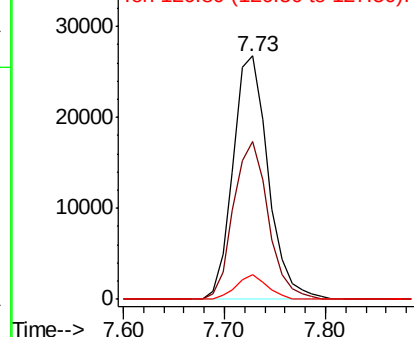
83 100

85 64.9 49.8 74.8

127 10.0 7.3 10.9



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): VDC



#48

Methyl methacrylate

Concen: 20.66 ug/l

RT: 7.49 min Scan# 739

Delta R.T. 0.01 min

Lab File: VD059699.D

Acq: 7 Aug 2018 12:29

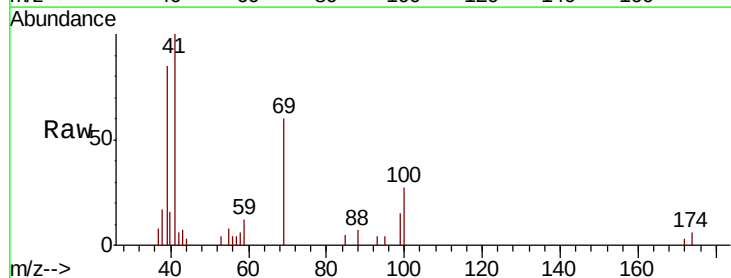
Tgt Ion: 41 Resp: 25822

Ion Ratio Lower Upper

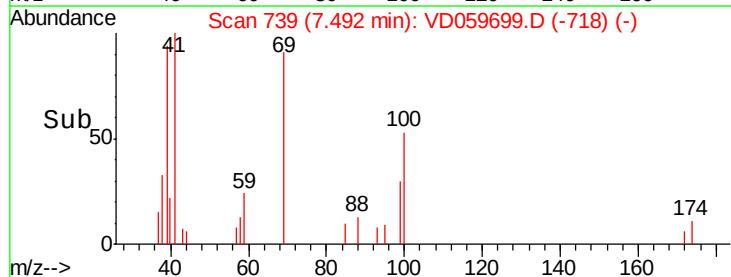
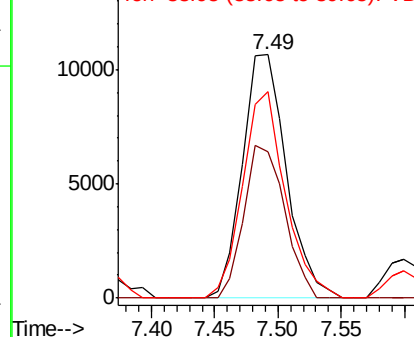
41 100

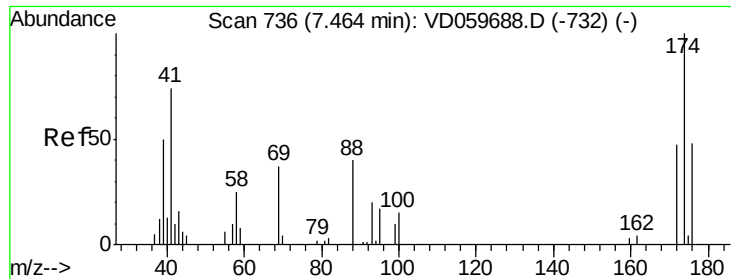
69 60.2 47.3 70.9

39 84.7 62.9 94.3



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

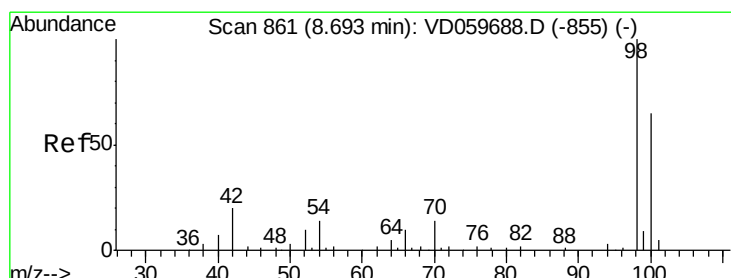
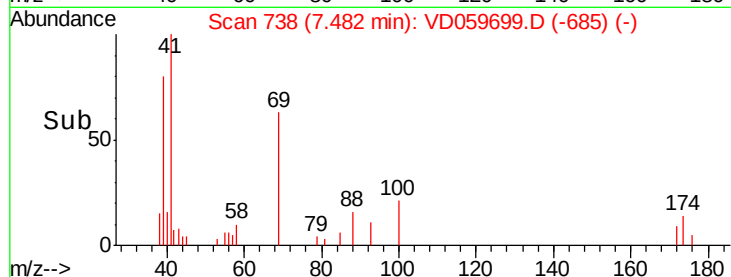
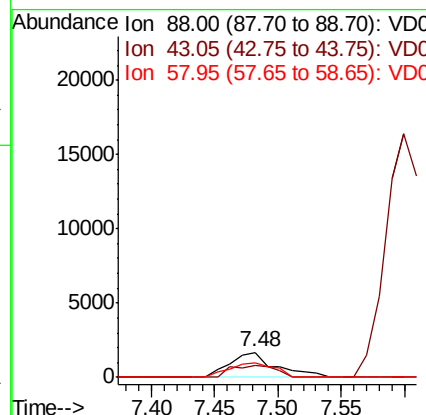
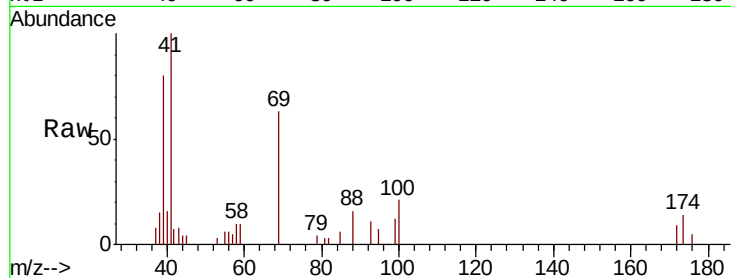




#49
1,4-Dioxane
Concen: 417.53 ug/l
RT: 7.48 min Scan# 738
Delta R.T. 0.02 min
Lab File: VD059699.D
Acq: 7 Aug 2018 12:29

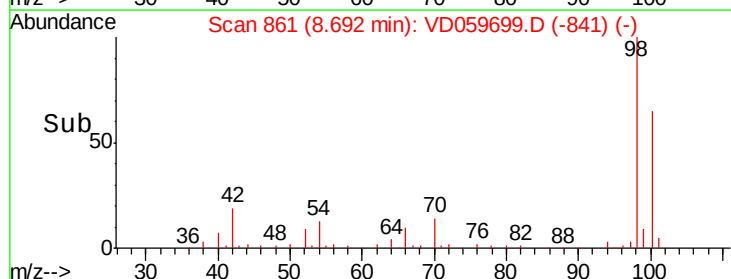
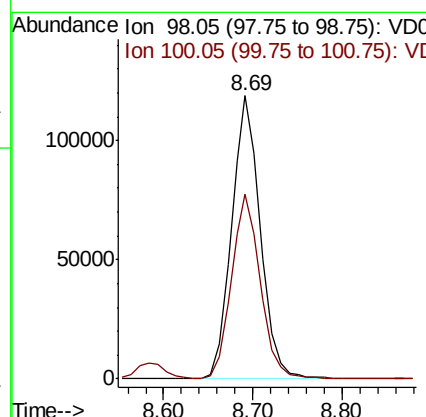
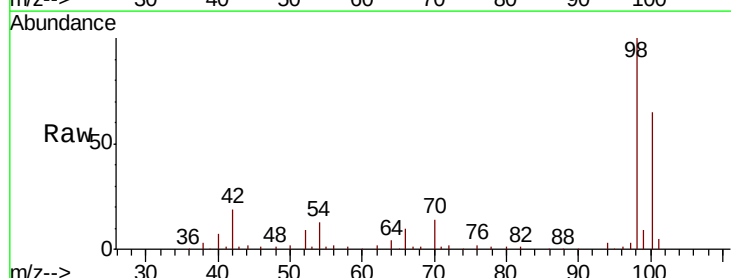
Instrument :
MSVOA_D
ClientSampleId :
VD0807SBS01

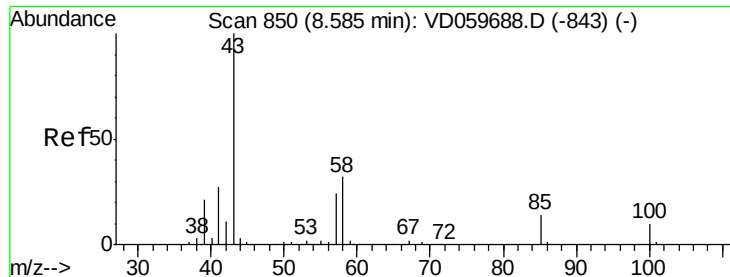
Tot Ion: 88 Resp: 4275
Ion Ratio Lower Upper
88 100
43 49.0 32.2 48.2#
58 59.8 51.5 77.3



#50
Toluene-d8
Concen: 417.53 ug/l
RT: 8.69 min Scan# 861
Delta R.T. -0.00 min
Lab File: VD059699.D
Acq: 7 Aug 2018 12:29

Tgt Ion: 98 Resp: 266877
Ion Ratio Lower Upper
98 100
100 65.5 52.5 78.7





#51

4-Methyl-2-Pentanone

Concen: 93.20 ug/l

RT: 8.58 min Scan# 850

Delta R.T. -0.00 min

Lab File: VD059699.D

Acq: 7 Aug 2018 12:29

Instrument :

MSVOA_D

ClientSampleId :

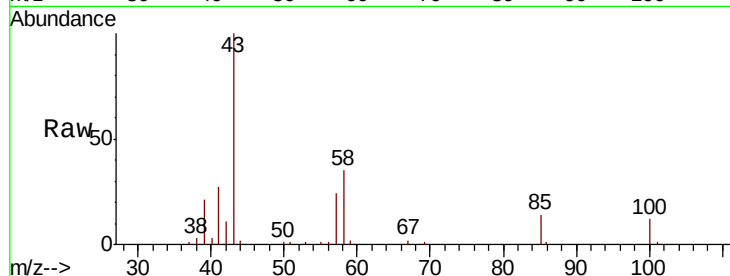
VD0807SBS01

Tot Ion: 43 Resp: 128692

Ion Ratio Lower Upper

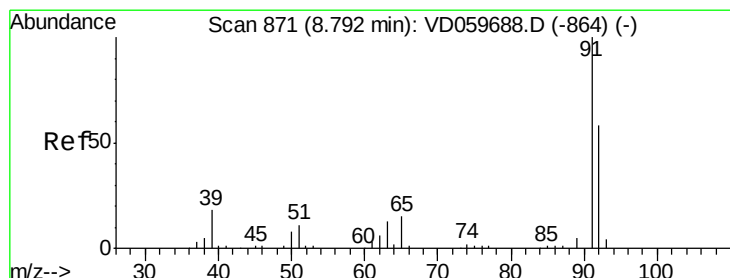
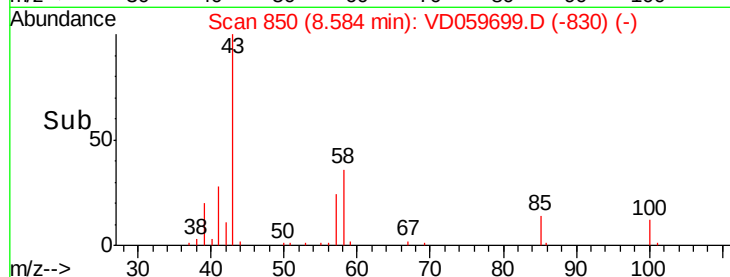
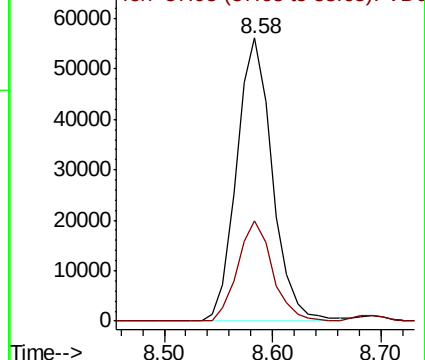
43 100

58 35.3 25.7 38.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 20.01 ug/l

RT: 8.79 min Scan# 871

Delta R.T. -0.00 min

Lab File: VD059699.D

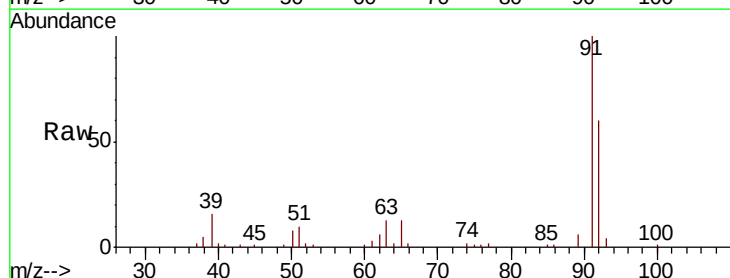
Acq: 7 Aug 2018 12:29

Tgt Ion: 92 Resp: 73849

Ion Ratio Lower Upper

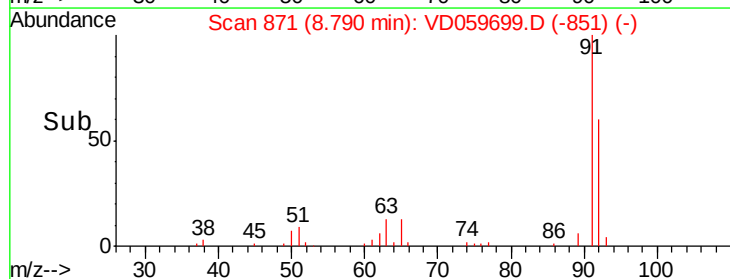
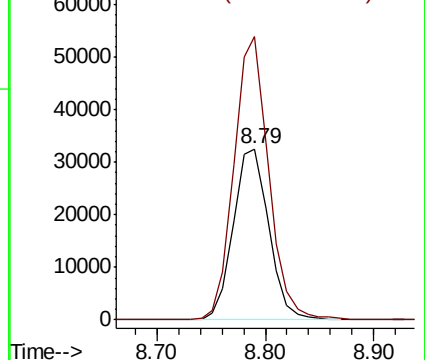
92 100

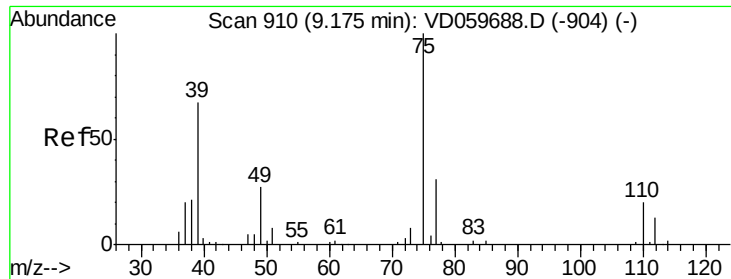
91 165.6 137.0 205.6



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: 19.63 ug/l

RT: 9.17 min Scan# 910

Delta R.T. -0.00 min

Lab File: VD059699.D

Acq: 7 Aug 2018 12:29

Instrument :

MSVOA_D

ClientSampleId :

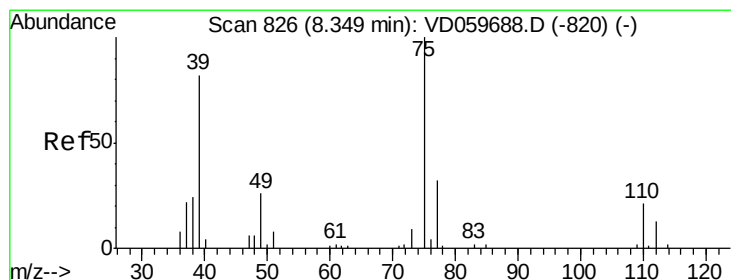
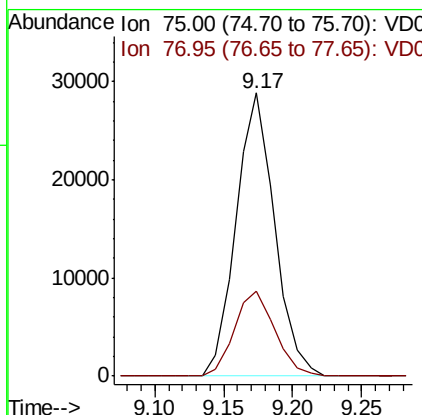
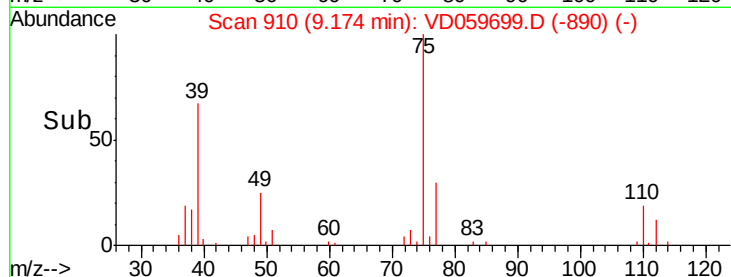
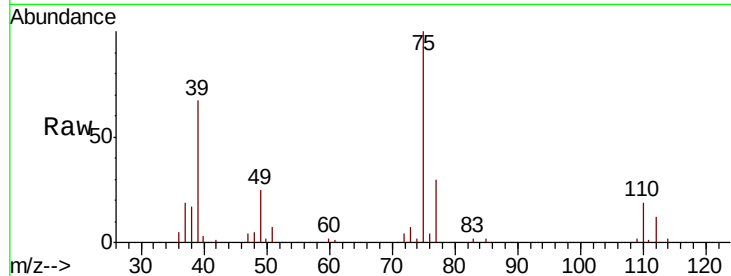
VD0807SBS01

Tot Ion: 75 Resp: 56005

Ion Ratio Lower Upper

75 100

77 29.9 24.7 37.1



#54

cis-1,3-Dichloropropene

Concen: 20.26 ug/l

RT: 8.35 min Scan# 826

Delta R.T. -0.00 min

Lab File: VD059699.D

Acq: 7 Aug 2018 12:29

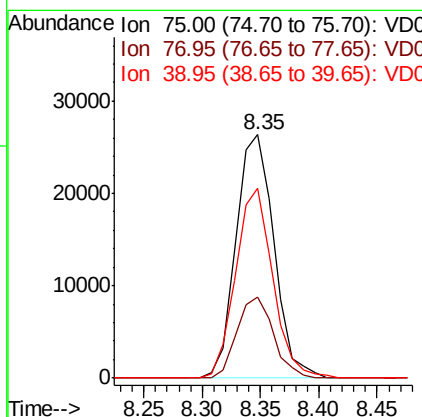
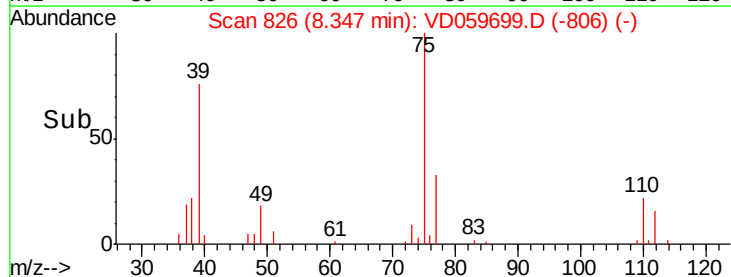
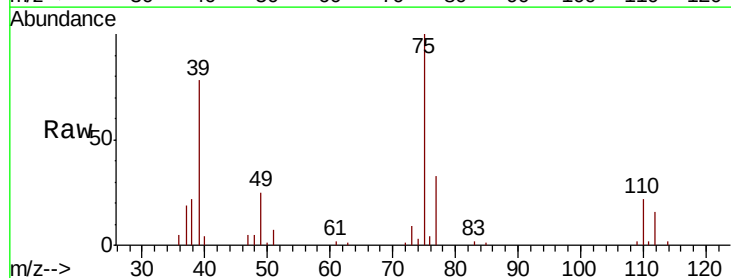
Tgt Ion: 75 Resp: 59524

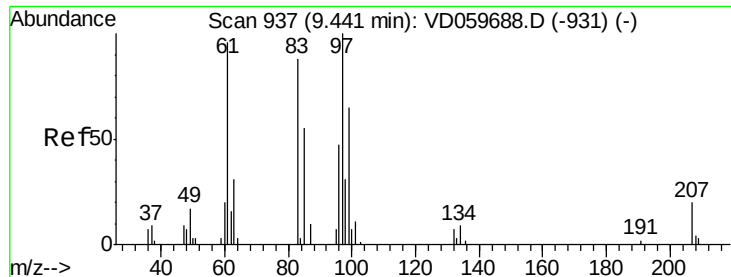
Ion Ratio Lower Upper

75 100

77 33.4 25.5 38.3

39 77.8 65.4 98.2





#55

1,1,2-Trichloroethane

Concen: 19.86 ug/l

RT: 9.44 min Scan# 937

Delta R.T. -0.00 min

Lab File: VD059699.D

Acq: 7 Aug 2018 12:29

Instrument :

MSVOA_D

ClientSampleId :

VD0807SBS01

Tot Ion: 97 Resp: 28152

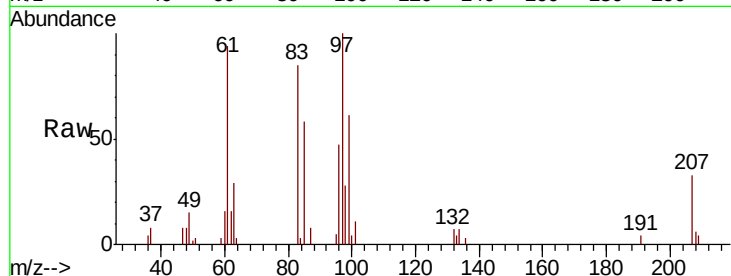
Ion Ratio Lower Upper

97 100

83 85.0 70.8 106.2

85 57.5 44.1 66.1

99 61.3 52.2 78.4

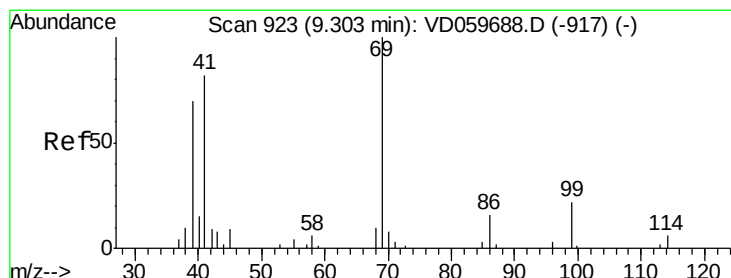
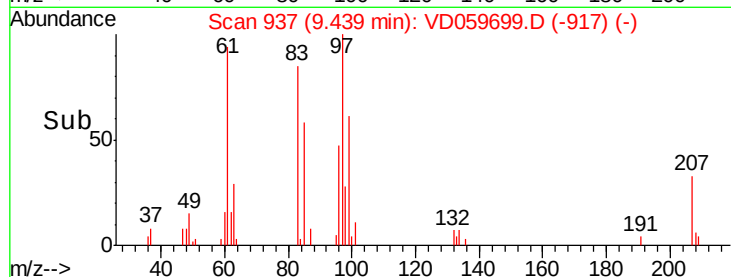
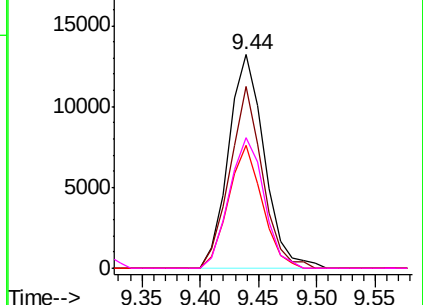


Abundance Ion 96.85 (96.55 to 97.55): VDC

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: 20.74 ug/l

RT: 9.30 min Scan# 923

Delta R.T. -0.00 min

Lab File: VD059699.D

Acq: 7 Aug 2018 12:29

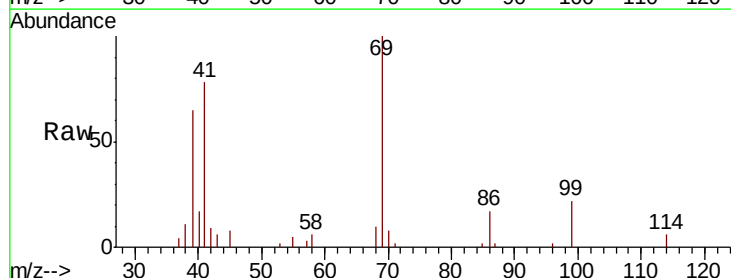
Tgt Ion: 69 Resp: 32439

Ion Ratio Lower Upper

69 100

41 77.6 65.7 98.5

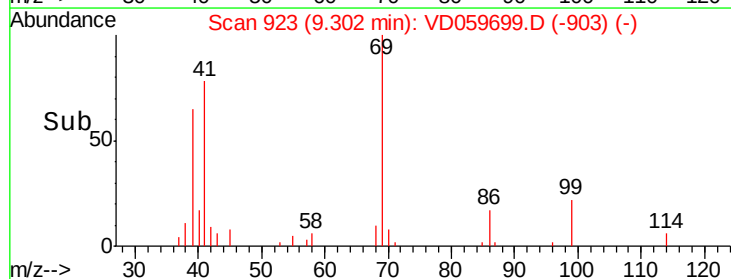
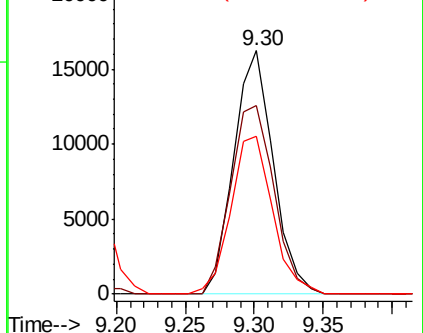
39 64.8 55.8 83.8

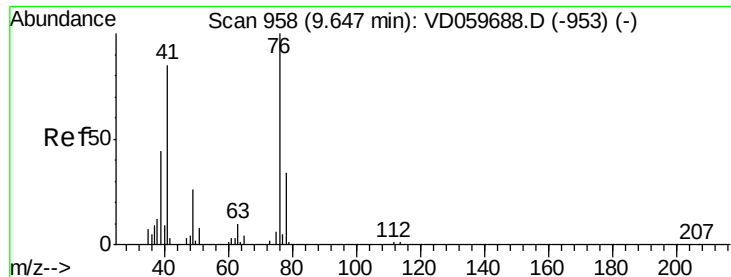


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC





#57

1,3-Dichloropropane

Concen: 20.26 ug/l

RT: 9.65 min Scan# 958

Delta R.T. -0.00 min

Lab File: VD059699.D

Acq: 7 Aug 2018 12:29

Instrument :

MSVOA_D

ClientSampleId :

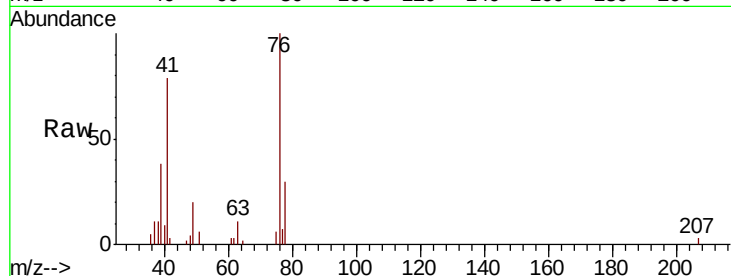
VD0807SBS01

Tot Ion: 76 Resp: 44566

Ion Ratio Lower Upper

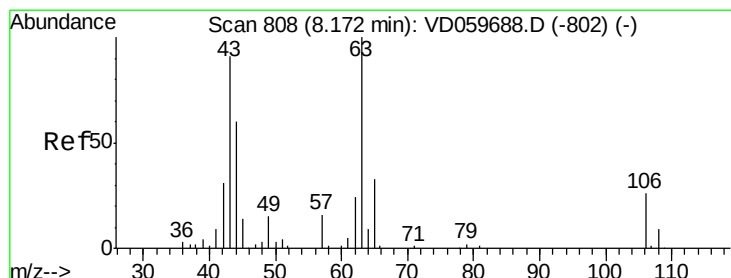
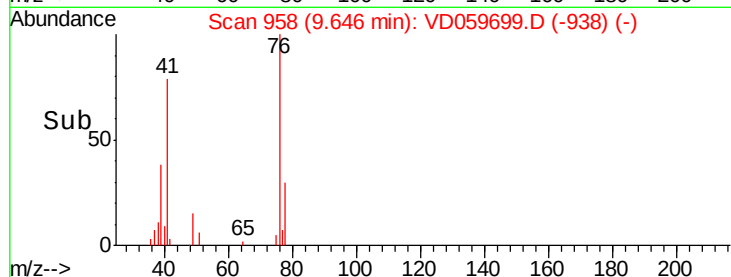
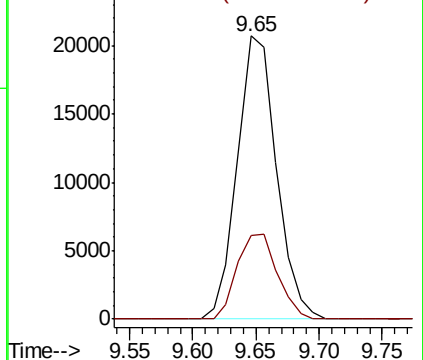
76 100

78 29.6 27.5 41.3



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 110.82 ug/l

RT: 8.17 min Scan# 808

Delta R.T. -0.00 min

Lab File: VD059699.D

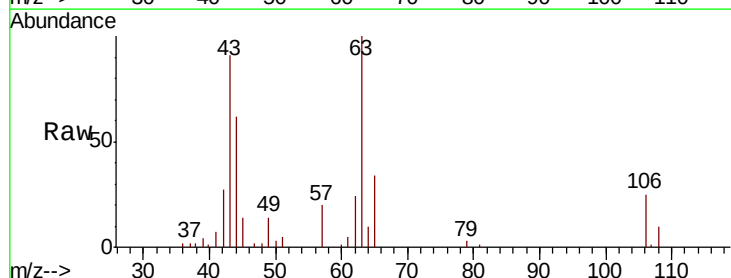
Acq: 7 Aug 2018 12:29

Tgt Ion: 63 Resp: 82583

Ion Ratio Lower Upper

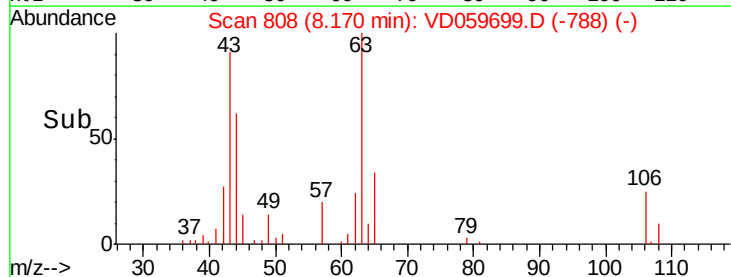
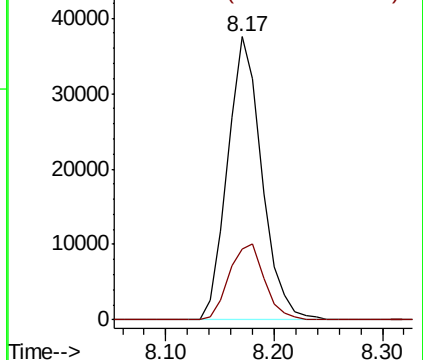
63 100

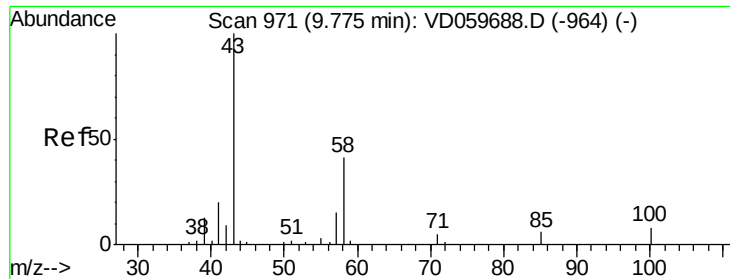
106 25.0 20.7 31.1



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): VDC

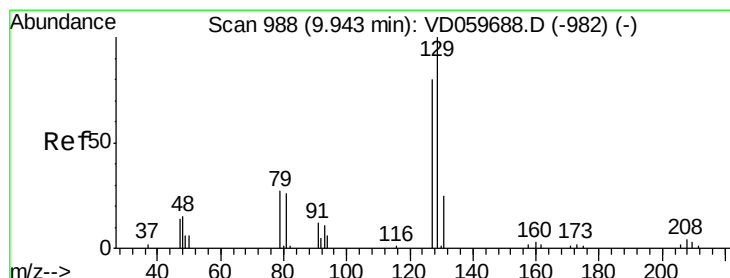
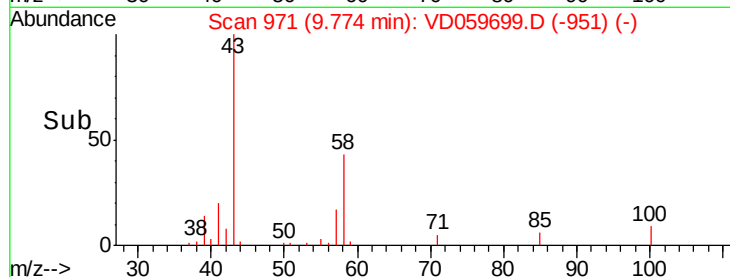
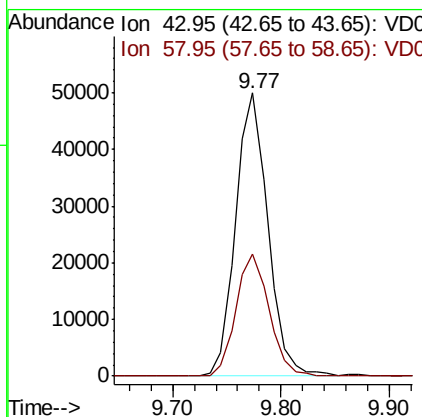
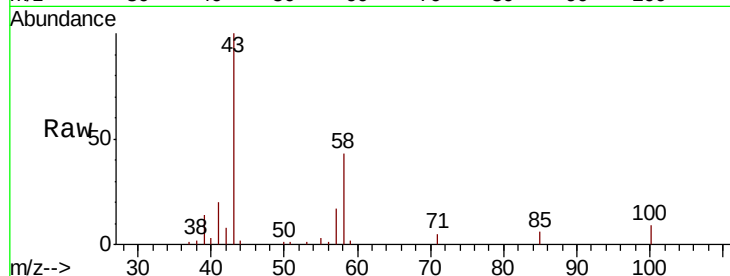




#59
2-Hexanone
Concen: 99.69 ug/l
RT: 9.77 min Scan# 971
Delta R.T. -0.00 min
Lab File: VD059699.D
Acq: 7 Aug 2018 12:29

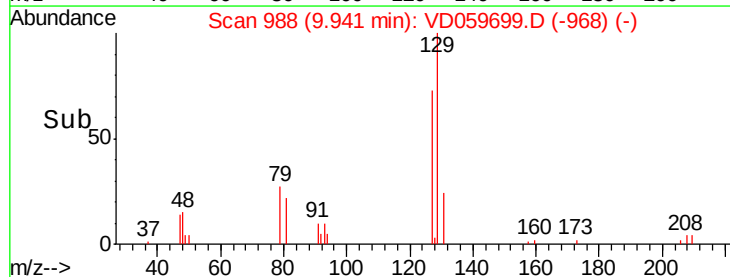
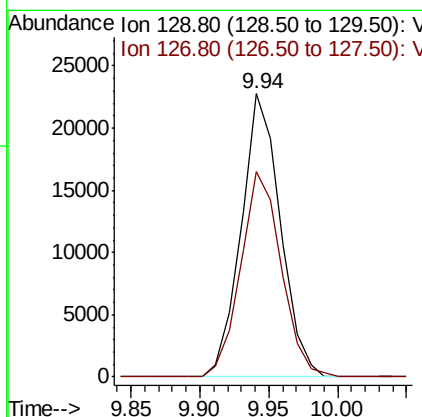
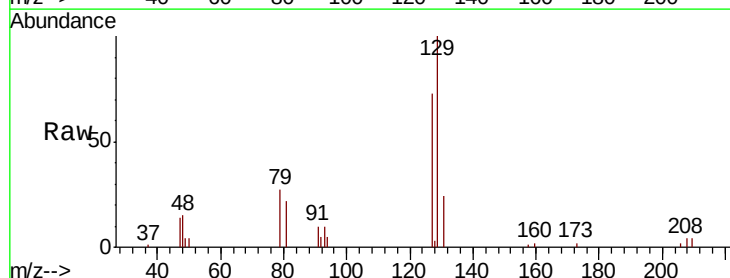
Instrument :
MSVOA_D
ClientSampleId :
VD0807SBS01

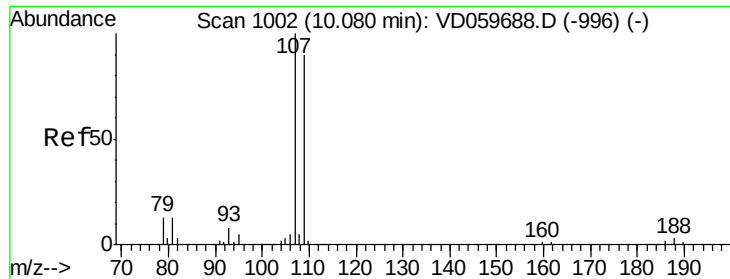
Tot Ion: 43 Resp: 103370
Ion Ratio Lower Upper
43 100
58 43.3 20.4 61.3



#60
Dibromochloromethane
Concen: 20.04 ug/l
RT: 9.94 min Scan# 988
Delta R.T. -0.00 min
Lab File: VD059699.D
Acq: 7 Aug 2018 12:29

Tgt Ion:129 Resp: 45144
Ion Ratio Lower Upper
129 100
127 72.6 40.0 119.9





#61

1,2-Dibromoethane

Concen: 20.25 ug/l

RT: 10.08 min Scan# 1002

Delta R.T. -0.00 min

Lab File: VD059699.D

Acq: 7 Aug 2018 12:29

Instrument :

MSVOA_D

ClientSampleId :

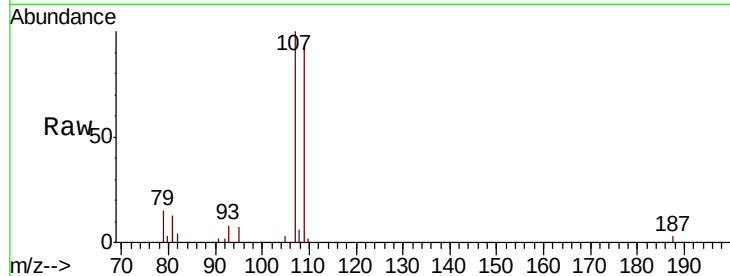
VD0807SBS01

Tot Ion:107 Resp: 33015

Ion Ratio Lower Upper

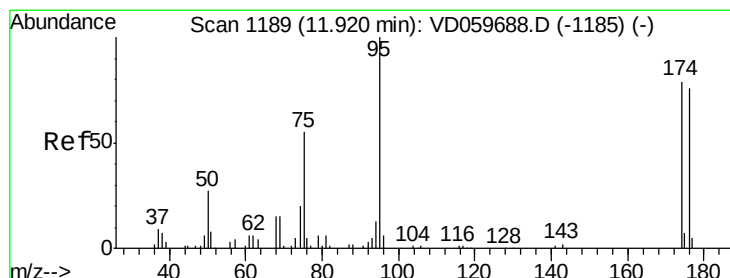
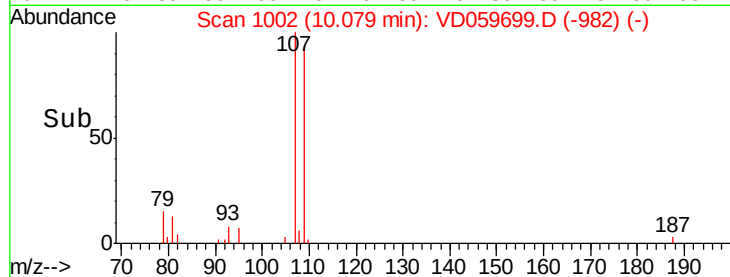
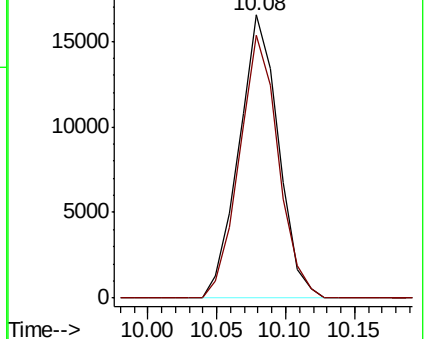
107 100

109 93.0 72.0 108.0



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V



#62

4-Bromofluorobenzene

Concen: 20.25 ug/l

RT: 11.92 min Scan# 1189

Delta R.T. -0.00 min

Lab File: VD059699.D

Acq: 7 Aug 2018 12:29

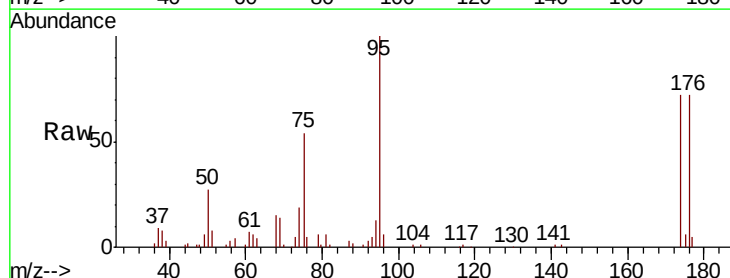
Tgt Ion: 95 Resp: 121332

Ion Ratio Lower Upper

95 100

174 72.1 0.0 158.4

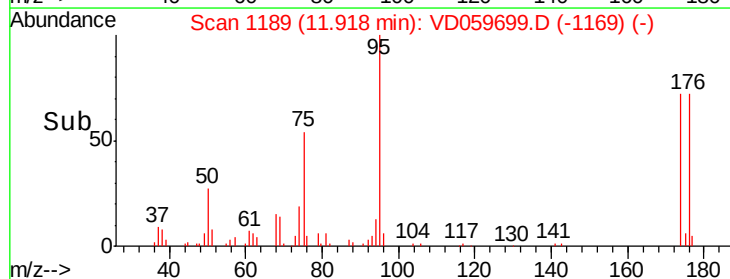
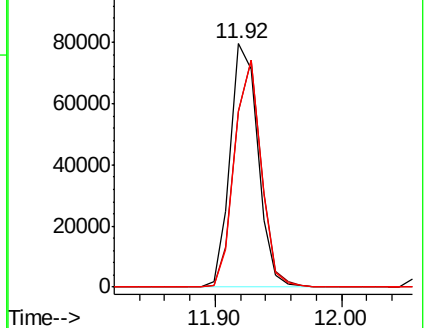
176 72.1 0.0 153.0

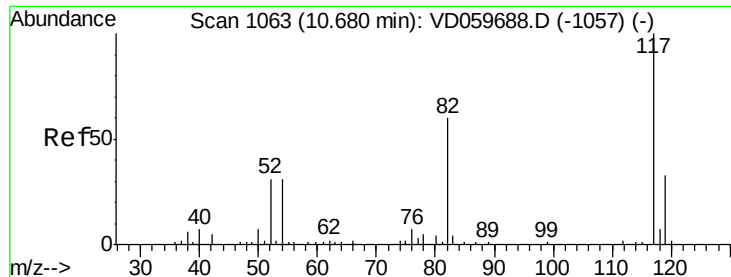


Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

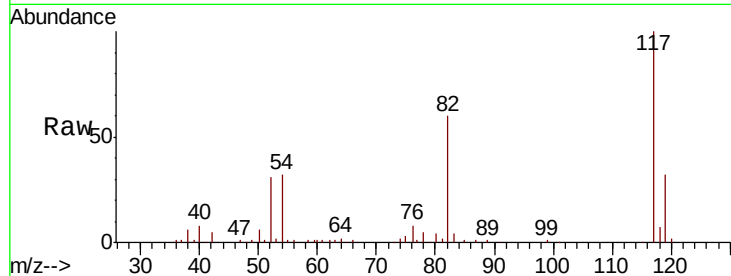




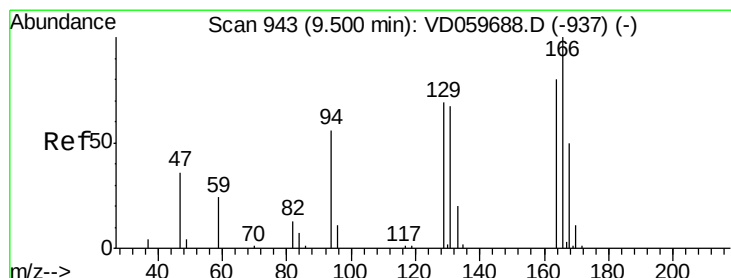
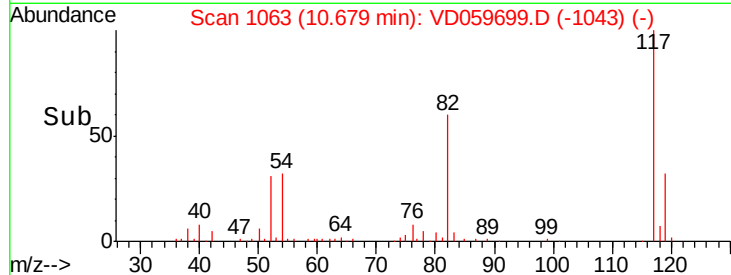
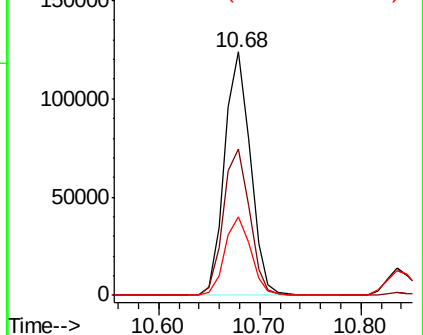
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.68 min Scan# 1063
Delta R.T. -0.00 min
Lab File: VD059699.D
Acq: 7 Aug 2018 12:29

Instrument :
MSVOA_D
ClientSampleId :
VD0807SBS01

Tot Ion:117 Resp: 219961
Ion Ratio Lower Upper
117 100
82 60.0 47.7 71.5
119 32.4 26.6 40.0

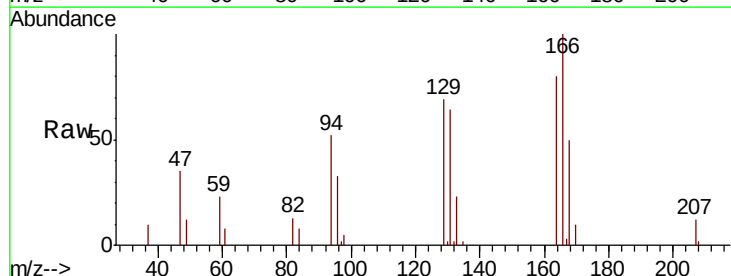


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

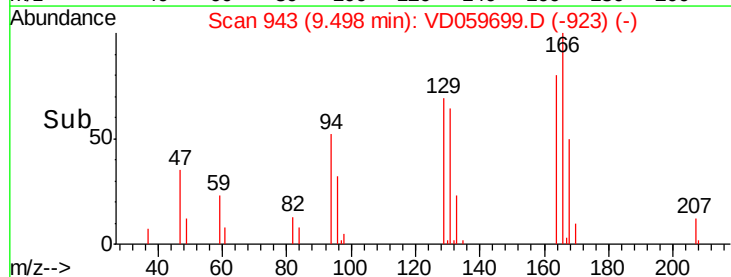
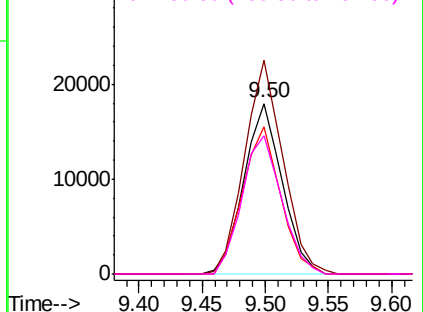


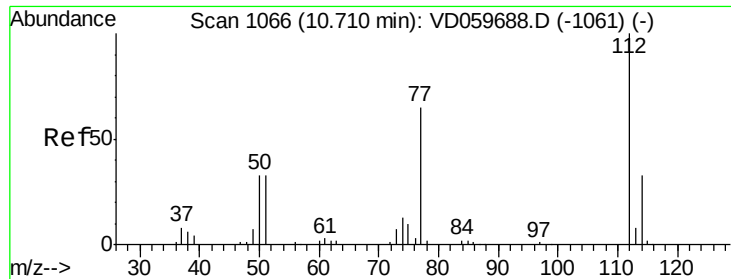
#64
Tetrachloroethene
Concen: 18.29 ug/l
RT: 9.50 min Scan# 943
Delta R.T. -0.00 min
Lab File: VD059699.D
Acq: 7 Aug 2018 12:29

Tgt Ion:164 Resp: 38088
Ion Ratio Lower Upper
164 100
166 125.0 100.5 150.7
129 86.2 69.3 103.9
131 80.6 67.3 100.9



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

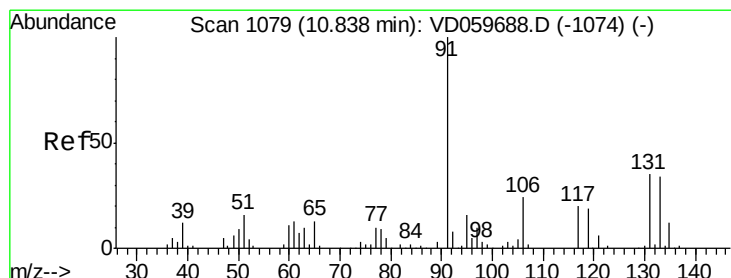
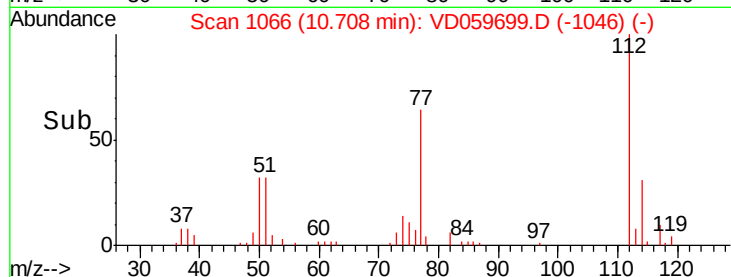
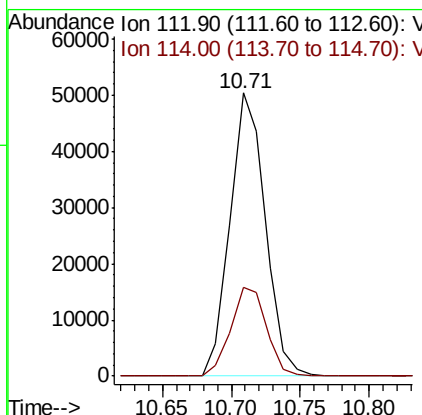
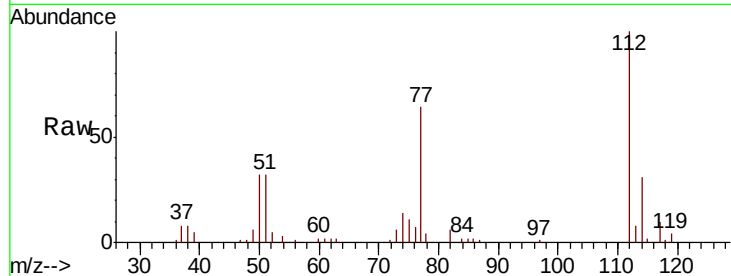




#65
Chlorobenzene
Concen: 19.32 ug/l
RT: 10.71 min Scan# 1066
Delta R.T. -0.00 min
Lab File: VD059699.D
Acq: 7 Aug 2018 12:29

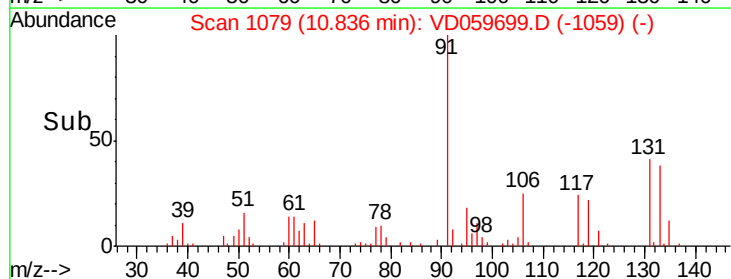
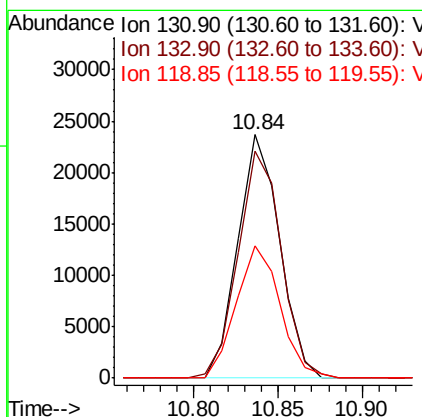
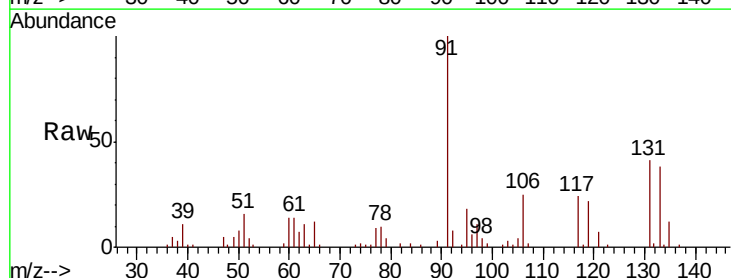
Instrument :
MSVOA_D
ClientSampleId :
VD0807SBS01

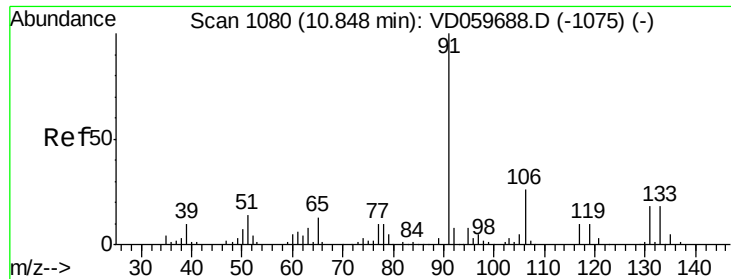
Tot Ion:112 Resp: 89537
Ion Ratio Lower Upper
112 100
114 31.4 26.1 39.1



#66
1,1,1,2-Tetrachloroethane
Concen: 19.94 ug/l
RT: 10.84 min Scan# 1079
Delta R.T. -0.00 min
Lab File: VD059699.D
Acq: 7 Aug 2018 12:29

Tgt Ion:131 Resp: 40516
Ion Ratio Lower Upper
131 100
133 93.1 49.7 149.1
119 54.2 27.0 80.8

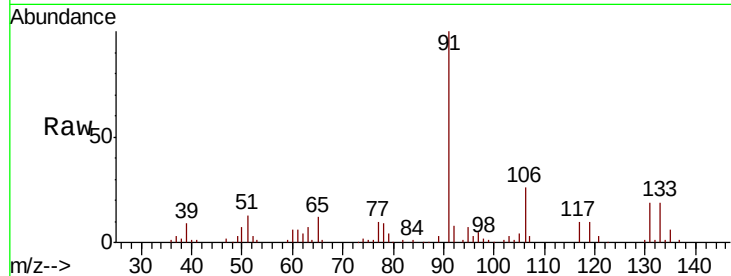




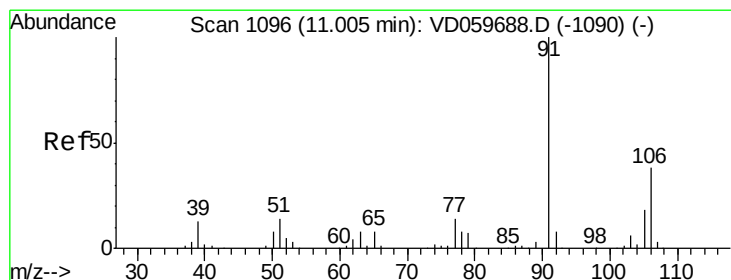
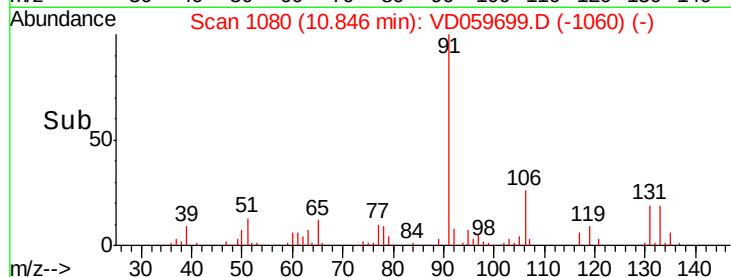
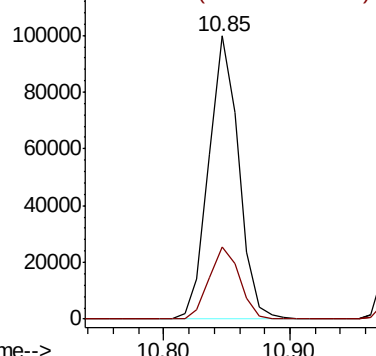
#67
Ethyl Benzene
Concen: 19.51 ug/l
RT: 10.85 min Scan# 1080
Delta R.T. -0.00 min
Lab File: VD059699.D
Acq: 7 Aug 2018 12:29

Instrument :
MSVOA_D
ClientSampleId :
VD0807SBS01

Tot Ion: 91 Resp: 162846
Ion Ratio Lower Upper
91 100
106 25.6 20.9 31.3

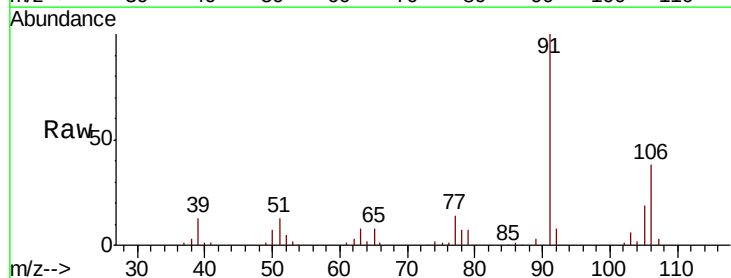


Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 106.05 (105.75 to 106.75): V

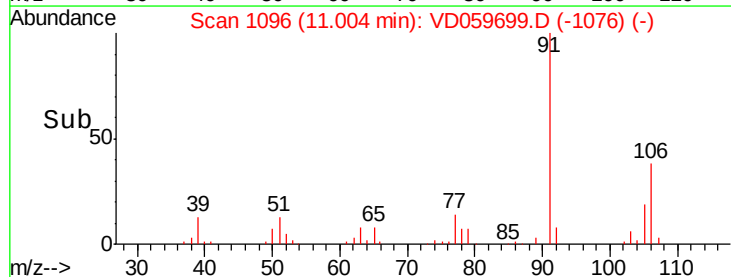
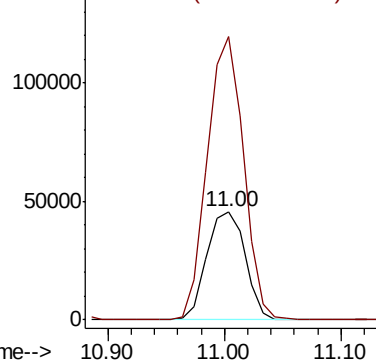


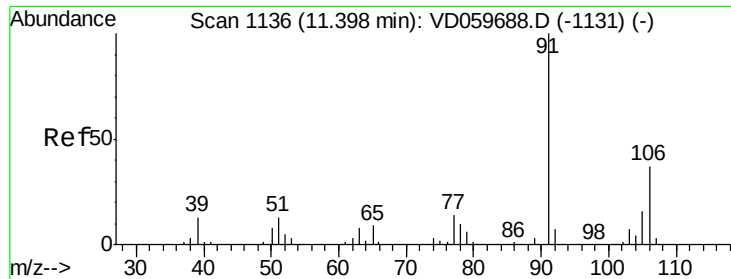
#68
m/p-Xylenes
Concen: 39.04 ug/l
RT: 11.00 min Scan# 1096
Delta R.T. -0.00 min
Lab File: VD059699.D
Acq: 7 Aug 2018 12:29

Tgt Ion:106 Resp: 104243
Ion Ratio Lower Upper
106 100
91 261.0 209.7 314.5



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

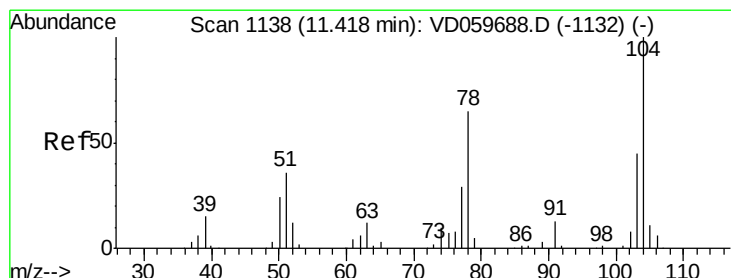
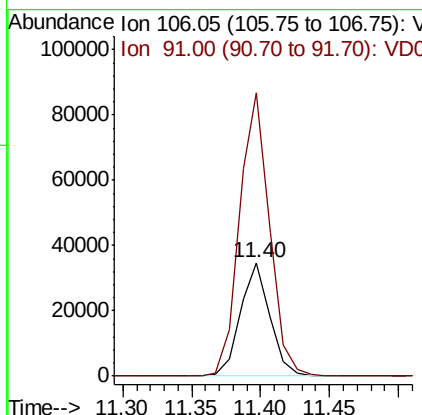
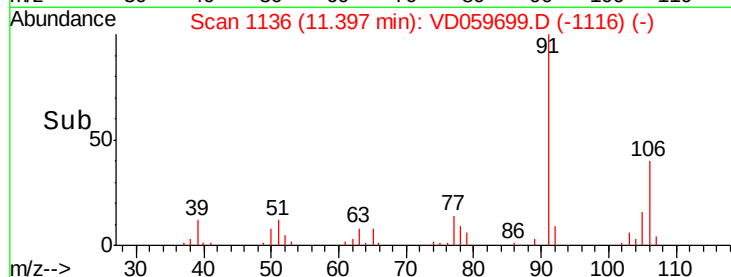
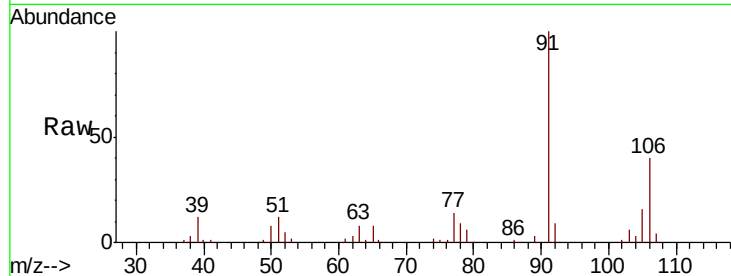




#69
o-Xylene
Concen: 19.89 ug/l
RT: 11.40 min Scan# 1136
Delta R.T. -0.00 min
Lab File: VD059699.D
Acq: 7 Aug 2018 12:29

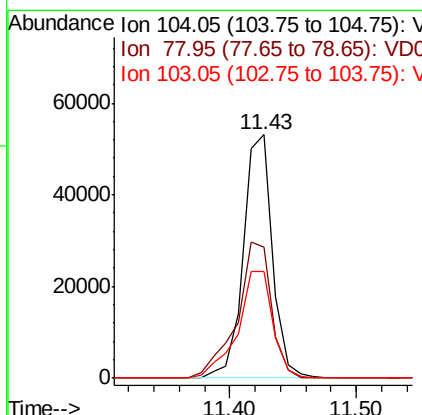
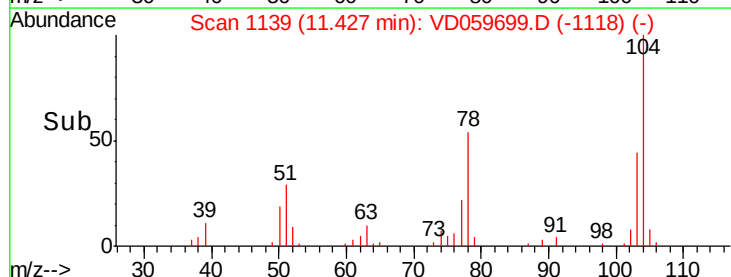
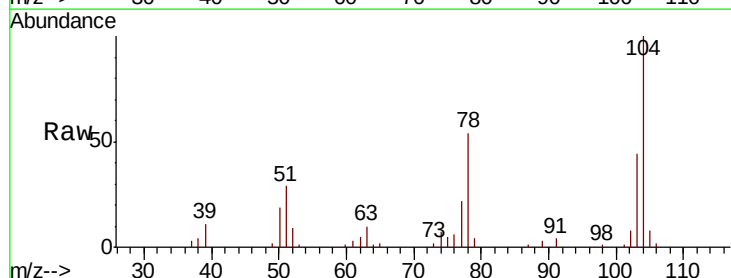
Instrument :
MSVOA_D
ClientSampleId :
VD0807SBS01

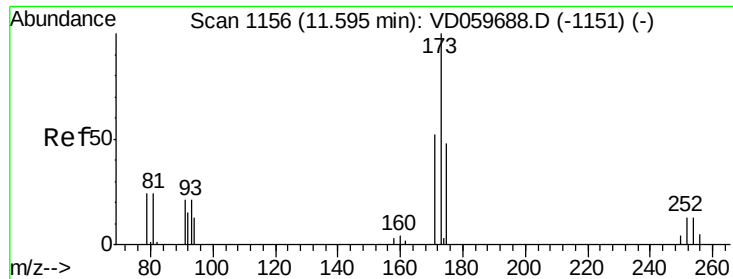
Tot Ion:106 Resp: 51631
Ion Ratio Lower Upper
106 100
91 250.1 135.2 405.6



#70
Styrene
Concen: 19.42 ug/l
RT: 11.43 min Scan# 1139
Delta R.T. 0.01 min
Lab File: VD059699.D
Acq: 7 Aug 2018 12:29

Tgt Ion:104 Resp: 84618
Ion Ratio Lower Upper
104 100
78 53.7 51.9 77.9
103 43.9 36.2 54.4





#71

Bromoform

Concen: 19.77 ug/l

RT: 11.59 min Scan# 1156

Delta R.T. -0.00 min

Lab File: VD059699.D

Acq: 7 Aug 2018 12:29

Instrument :

MSVOA_D

ClientSampleId :

VD0807SBS01

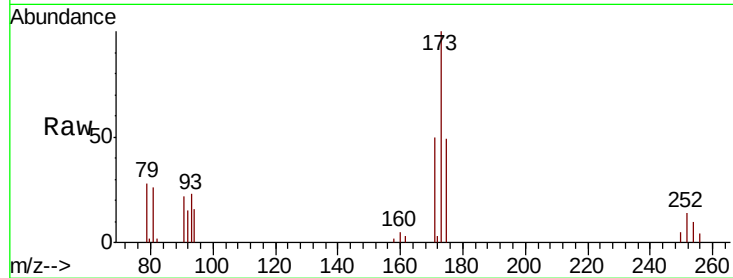
Tot Ion:173 Resp: 30267

Ion Ratio Lower Upper

173 100

175 49.4 24.1 72.4

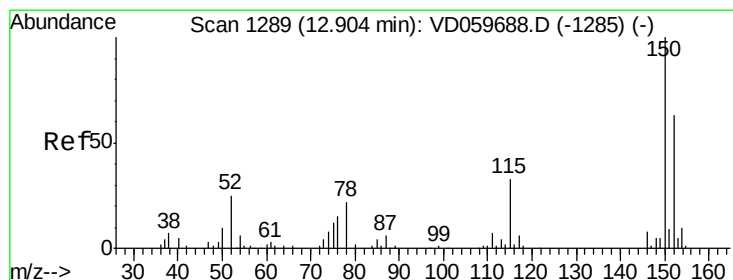
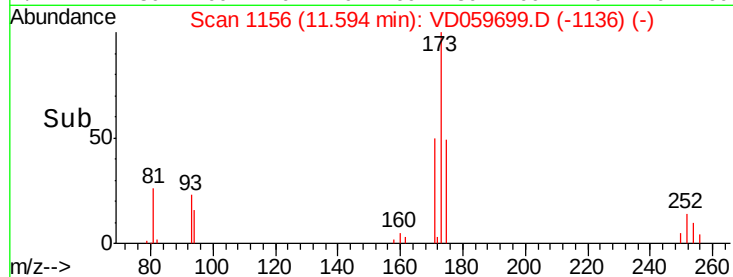
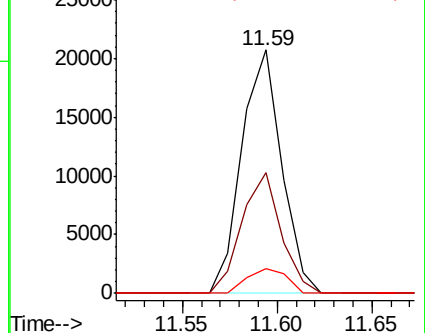
254 10.3 10.6 16.0#



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: 12.90 min Scan# 1289

Delta R.T. -0.00 min

Lab File: VD059699.D

Acq: 7 Aug 2018 12:29

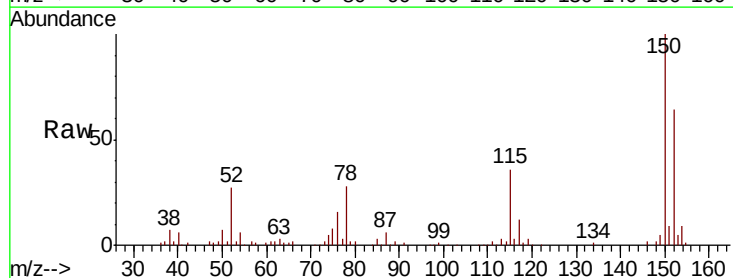
Tgt Ion:152 Resp: 120305

Ion Ratio Lower Upper

152 100

115 56.6 28.8 86.4

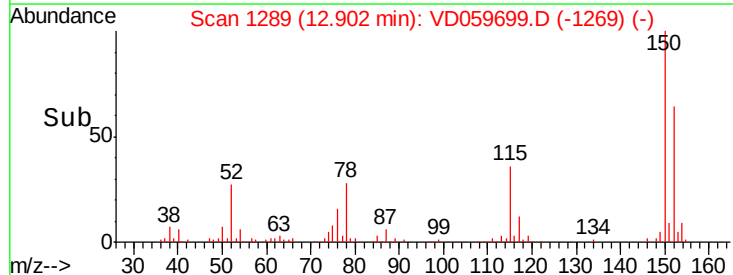
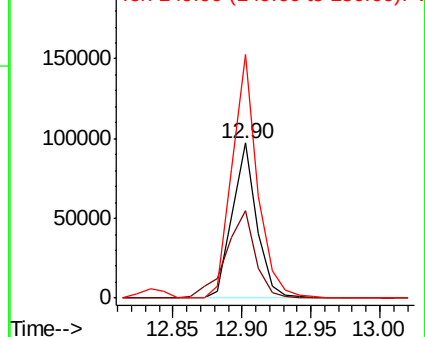
150 157.4 0.0 318.0

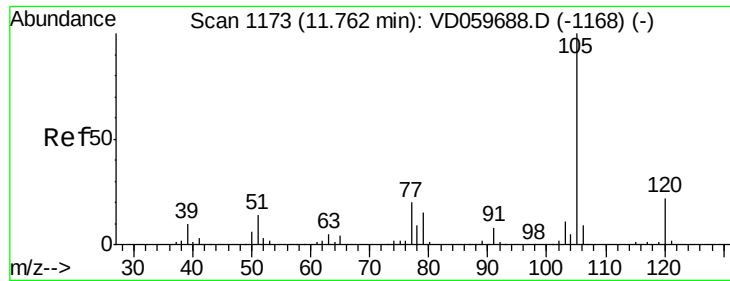


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 19.22 ug/l

RT: 11.76 min Scan# 1173

Delta R.T. -0.00 min

Lab File: VD059699.D

Acq: 7 Aug 2018 12:29

Instrument :

MSVOA_D

ClientSampleId :

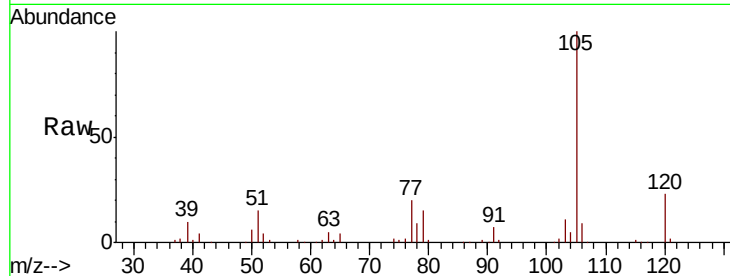
VD0807SBS01

Tot Ion:105 Resp: 155394

Ion Ratio Lower Upper

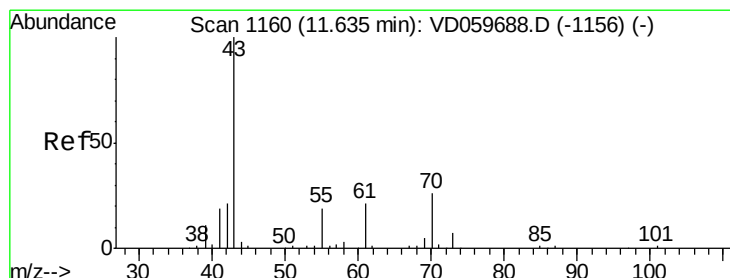
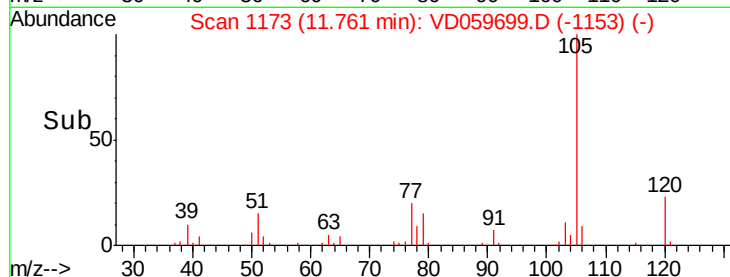
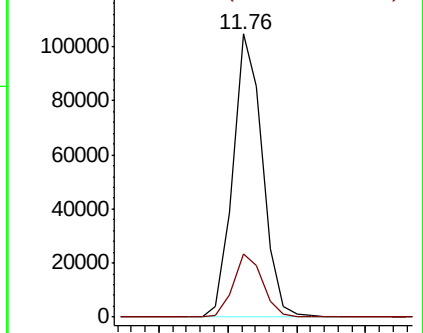
105 100

120 22.6 10.8 32.3



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 19.65 ug/l

RT: 11.63 min Scan# 1160

Delta R.T. -0.00 min

Lab File: VD059699.D

Acq: 7 Aug 2018 12:29

Tgt Ion: 43 Resp: 50824

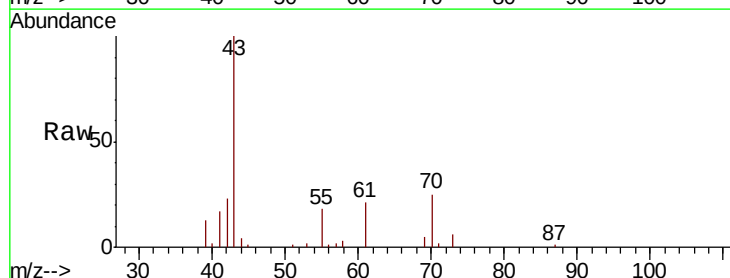
Ion Ratio Lower Upper

43 100

70 24.9 21.0 31.6

55 18.1 15.4 23.2

61 21.5 16.8 25.2

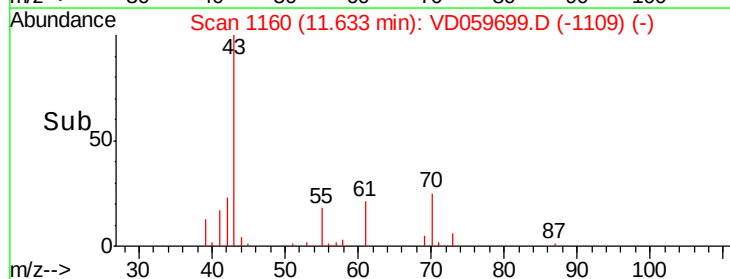
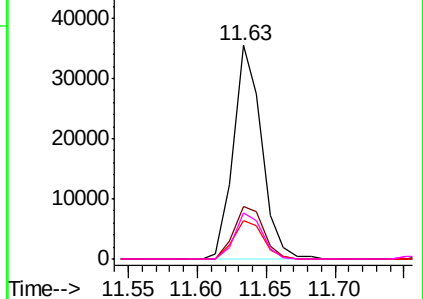


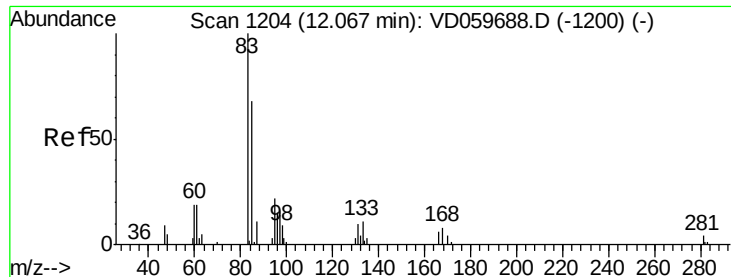
Abundance Ion 42.95 (42.65 to 43.65): V

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





#75

1,1,2,2-Tetrachloroethane

Concen: 20.29 ug/l

RT: 12.07 min Scan# 1204

Delta R.T. -0.00 min

Lab File: VD059699.D

Acq: 7 Aug 2018 12:29

Instrument :

MSVOA_D

ClientSampleId :

VD0807SBS01

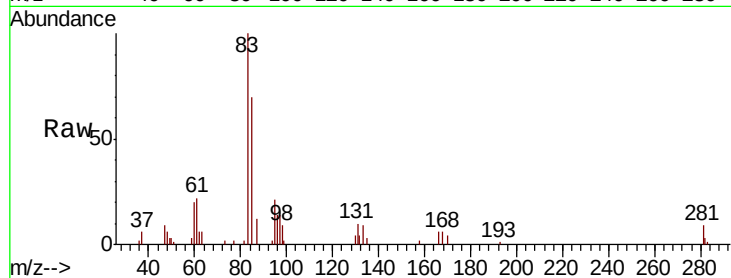
Tot Ion: 83 Resp: 32915

Ion Ratio Lower Upper

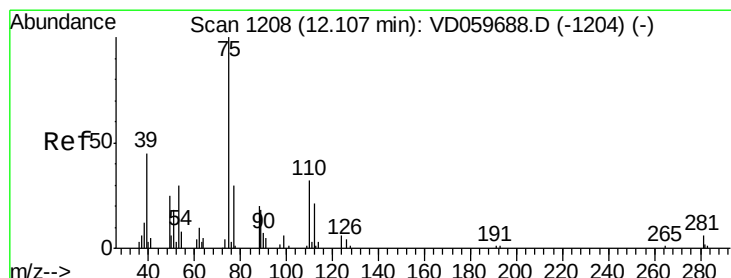
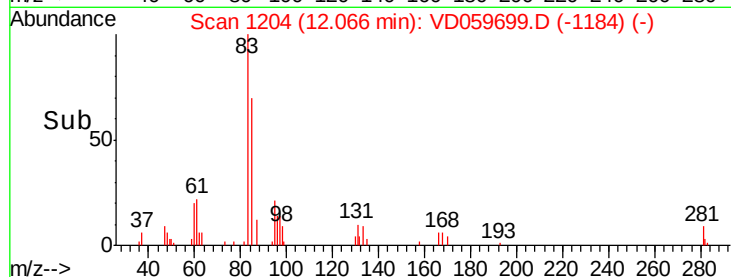
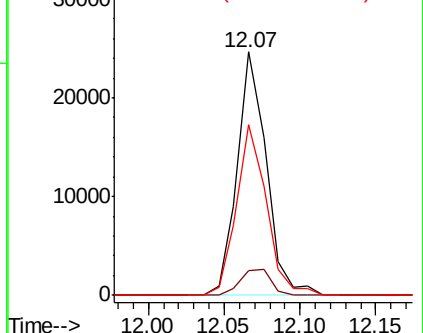
83 100

131 10.0 5.3 15.9

85 69.9 34.1 102.2



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: 20.68 ug/l

RT: 12.11 min Scan# 1208

Delta R.T. -0.00 min

Lab File: VD059699.D

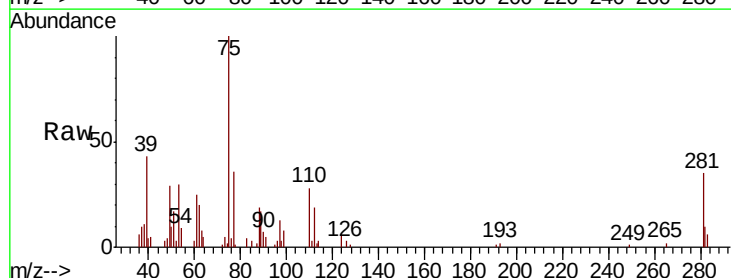
Acq: 7 Aug 2018 12:29

Tgt Ion: 75 Resp: 38454

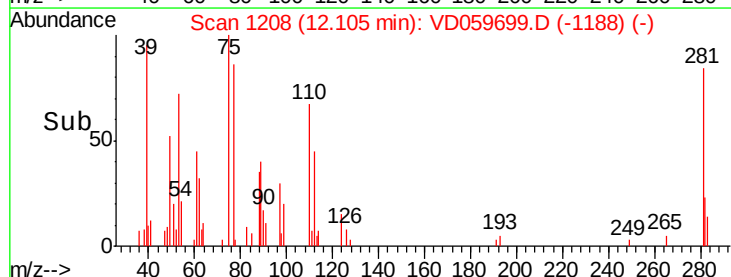
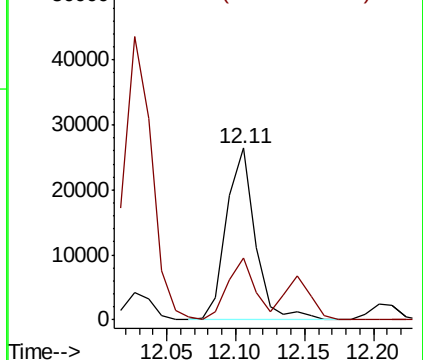
Ion Ratio Lower Upper

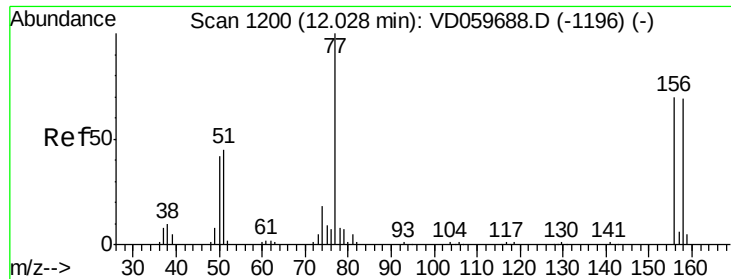
75 100

77 36.2 15.5 46.5



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 19.16 ug/l

RT: 12.04 min Scan# 1201

Delta R.T. 0.01 min

Lab File: VD059699.D

Acq: 7 Aug 2018 12:29

Instrument :

MSVOA_D

ClientSampleId :

VD0807SBS01

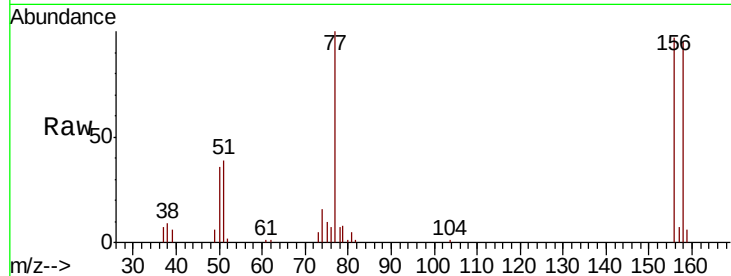
Tot Ion:156 Resp: 45149

Ion Ratio Lower Upper

156 100

77 103.2 71.2 213.6

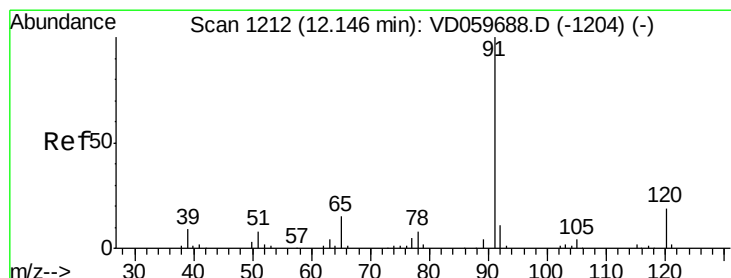
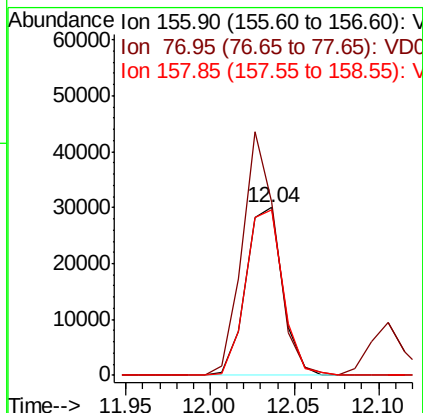
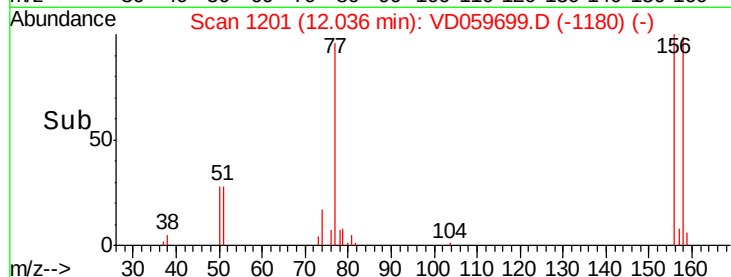
158 98.5 49.1 147.3



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 19.97 ug/l

RT: 12.14 min Scan# 1212

Delta R.T. -0.00 min

Lab File: VD059699.D

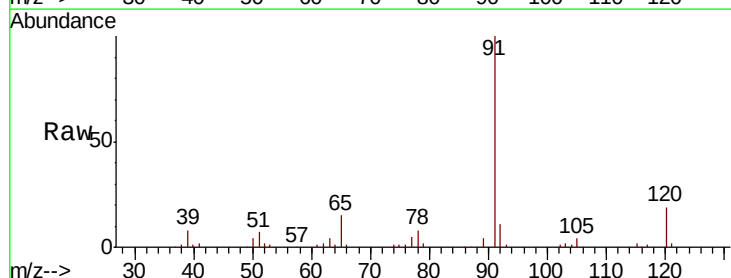
Acq: 7 Aug 2018 12:29

Tgt Ion: 91 Resp: 200042

Ion Ratio Lower Upper

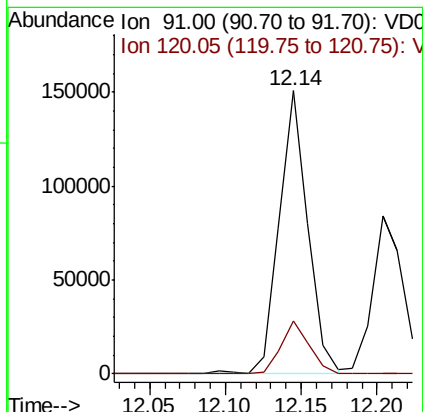
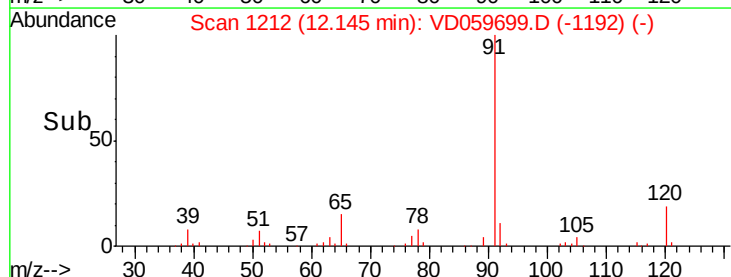
91 100

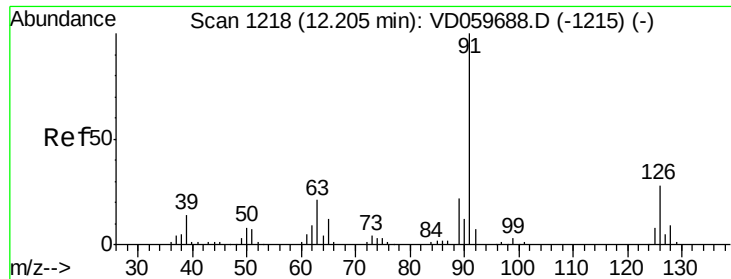
120 18.7 9.5 28.5



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V

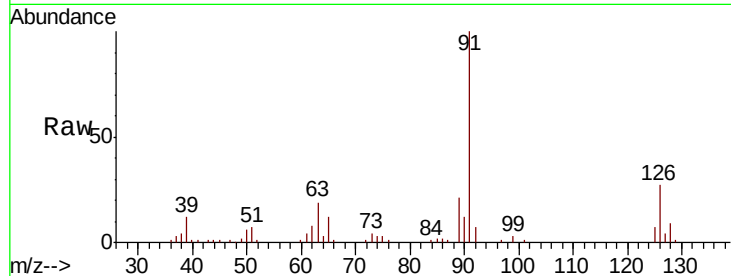




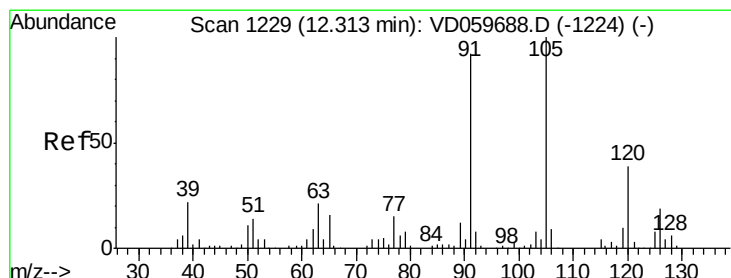
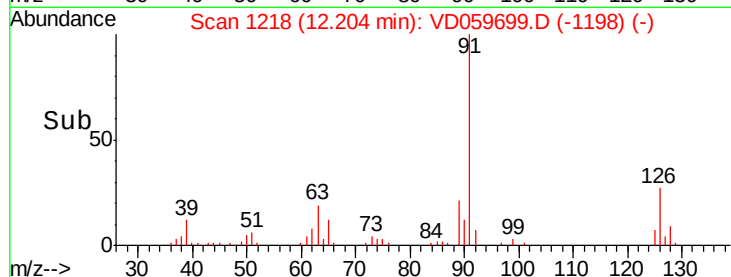
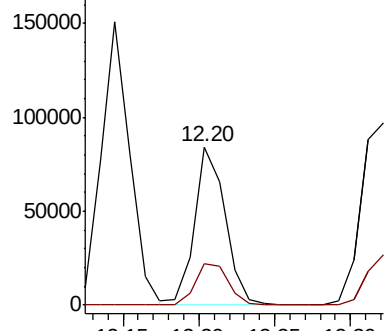
#79
 2-Chlorotoluene
 Concen: 19.59 ug/l
 RT: 12.20 min Scan# 1218
 Delta R.T. -0.00 min
 Lab File: VD059699.D
 Acq: 7 Aug 2018 12:29

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0807SBS01

Tot Ion: 91 Resp: 118513
 Ion Ratio Lower Upper
 91 100
 126 26.6 13.7 41.0

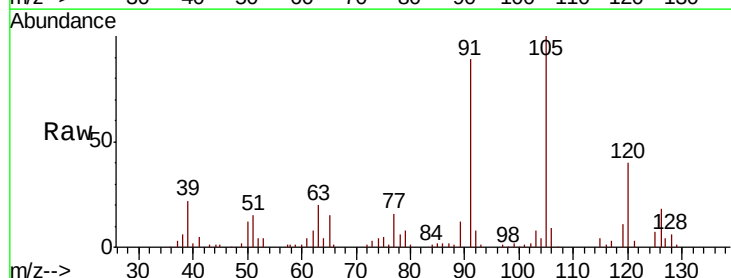


Abundance Ion 91.00 (90.70 to 91.70): V
 Ion 125.95 (125.65 to 126.65): V

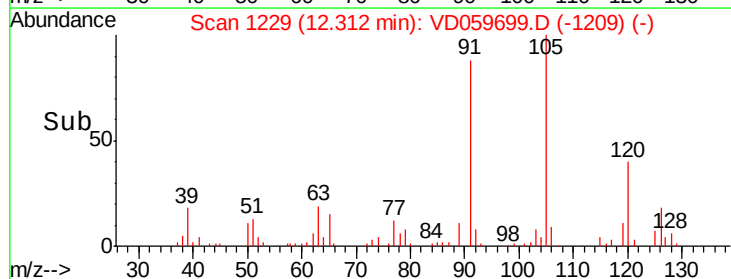
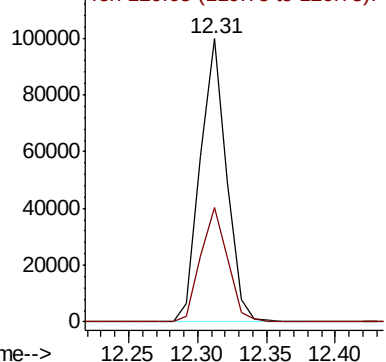


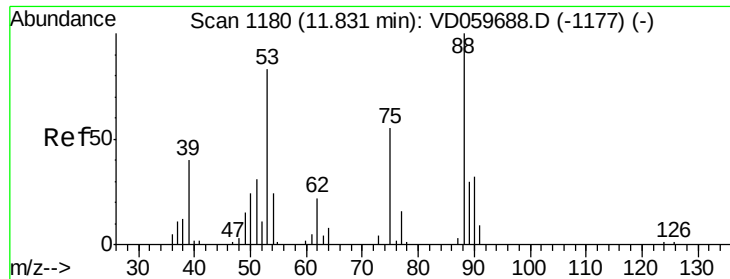
#80
 1,3,5-Trimethylbenzene
 Concen: 19.64 ug/l
 RT: 12.31 min Scan# 1229
 Delta R.T. -0.00 min
 Lab File: VD059699.D
 Acq: 7 Aug 2018 12:29

Tgt Ion:105 Resp: 132257
 Ion Ratio Lower Upper
 105 100
 120 40.5 19.7 59.1



Abundance Ion 105.05 (104.75 to 105.75): V
 Ion 120.05 (119.75 to 120.75): V

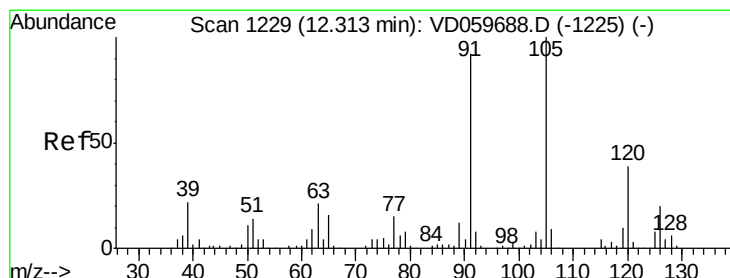
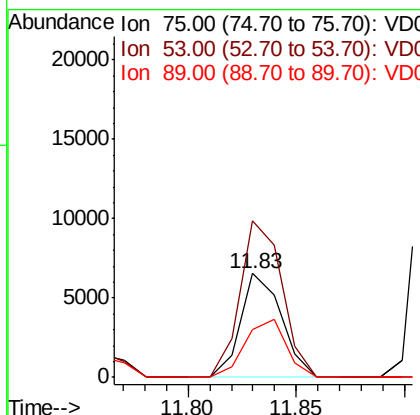
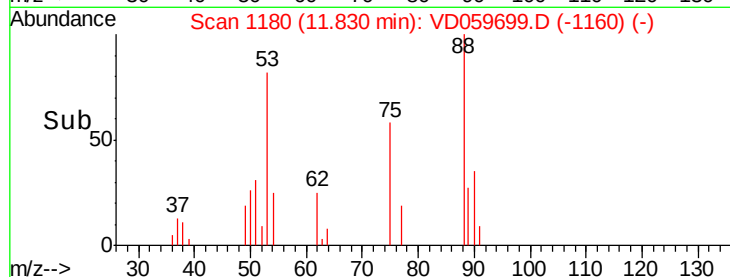
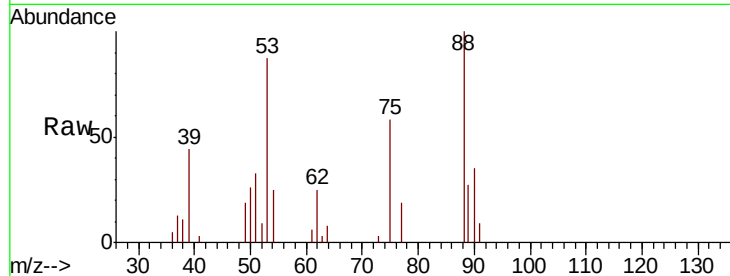




#81
trans-1,4-Dichloro-2-butene
Concen: 18.97 ug/l
RT: 11.83 min Scan# 1180
Delta R.T. -0.00 min
Lab File: VD059699.D
Acq: 7 Aug 2018 12:29

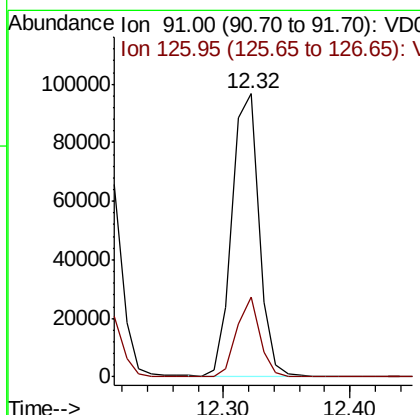
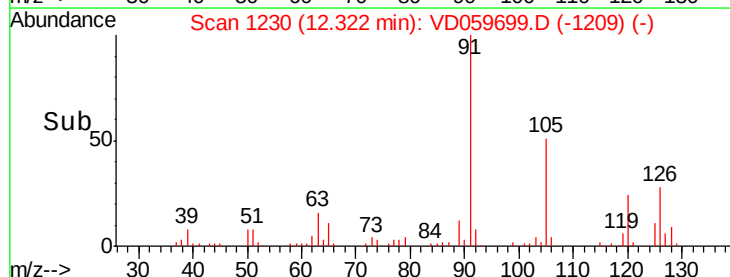
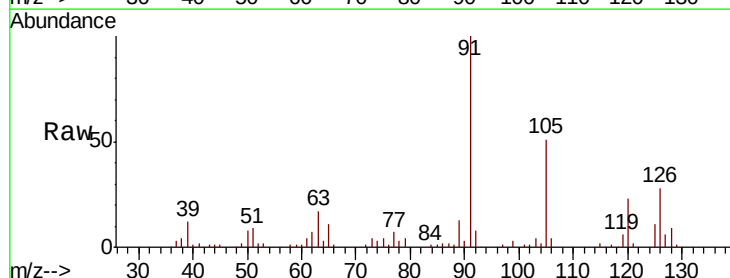
Instrument :
MSVOA_D
ClientSampleId :
VD0807SBS01

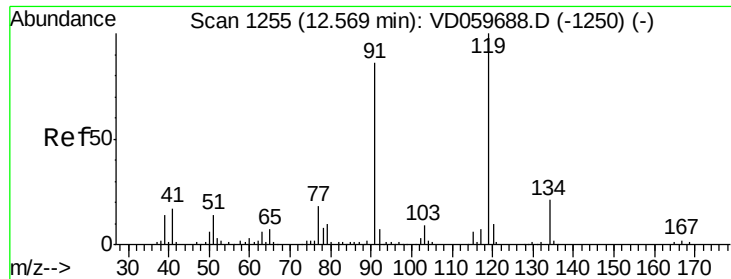
Tot Ion: 75 Resp: 8611
Ion Ratio Lower Upper
75 100
53 150.1 120.5 180.7
89 46.2 44.4 66.6



#82
4-Chlorotoluene
Concen: 20.29 ug/l
RT: 12.32 min Scan# 1230
Delta R.T. 0.01 min
Lab File: VD059699.D
Acq: 7 Aug 2018 12:29

Tgt Ion: 91 Resp: 143691
Ion Ratio Lower Upper
91 100
126 28.0 10.7 31.9





#83

tert-Butylbenzene

Concen: 19.37 ug/l

RT: 12.57 min Scan# 1255

Delta R.T. -0.00 min

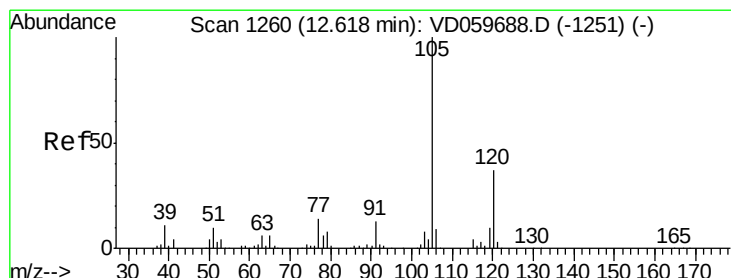
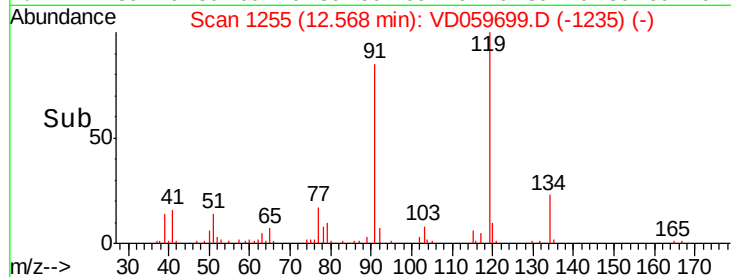
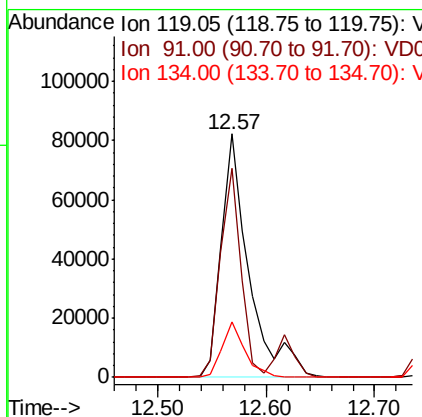
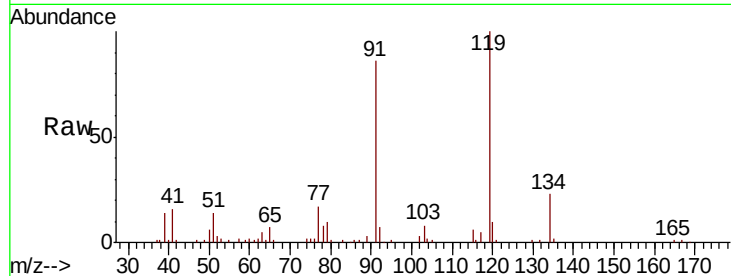
Lab File: VD059699.D

Acq: 7 Aug 2018 12:29

Instrument :
MSVOA_D
ClientSampleId :
VD0807SBS01

Tot Ion:119 Resp: 145983

Ion	Ratio	Lower	Upper
119	100		
91	85.8	43.3	129.9
134	22.8	10.5	31.6



#84

1,2,4-Trimethylbenzene

Concen: 19.63 ug/l

RT: 12.62 min Scan# 1260

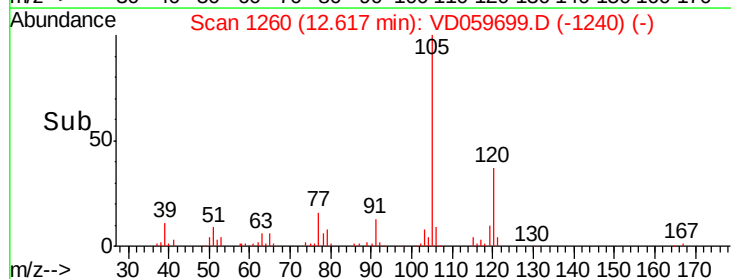
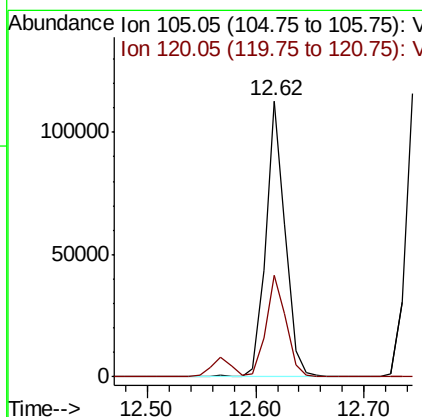
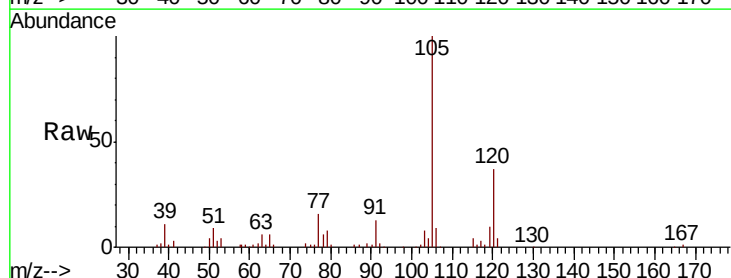
Delta R.T. -0.00 min

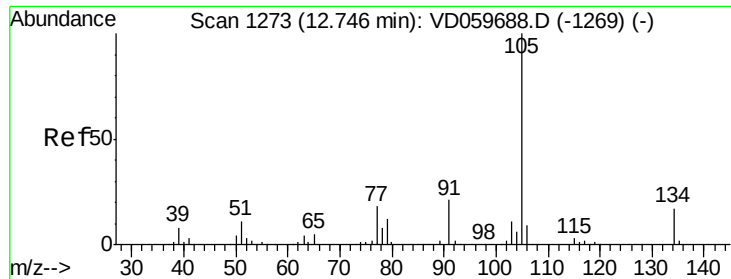
Lab File: VD059699.D

Acq: 7 Aug 2018 12:29

Tgt Ion:105 Resp: 140074

Ion	Ratio	Lower	Upper
105	100		
120	37.0	18.7	56.1





#85

sec-Butylbenzene

Concen: 19.41 ug/l

RT: 12.74 min Scan# 1273

Delta R.T. -0.00 min

Lab File: VD059699.D

Acq: 7 Aug 2018 12:29

Instrument :

MSVOA_D

ClientSampleId :

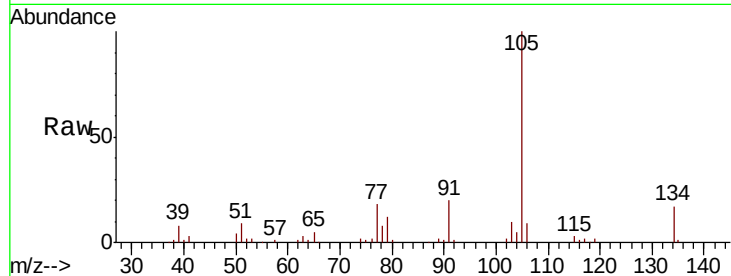
VD0807SBS01

Tot Ion:105 Resp: 162503

Ion Ratio Lower Upper

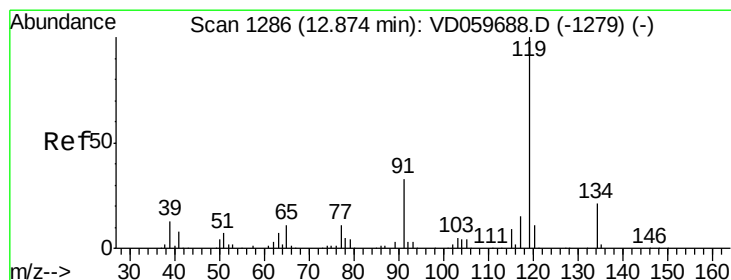
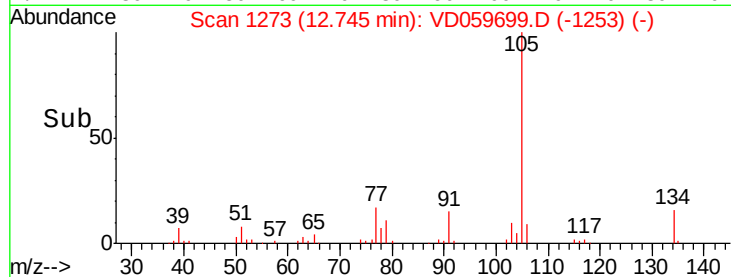
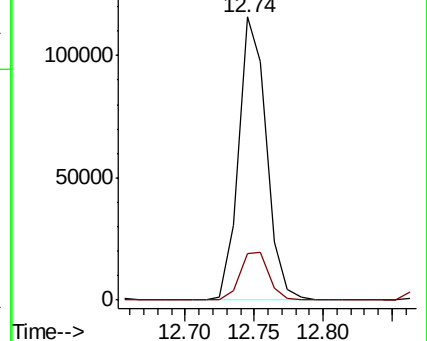
105 100

134 16.5 8.3 24.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V



#86

p-Isopropyltoluene

Concen: 18.97 ug/l

RT: 12.88 min Scan# 1287

Delta R.T. 0.01 min

Lab File: VD059699.D

Acq: 7 Aug 2018 12:29

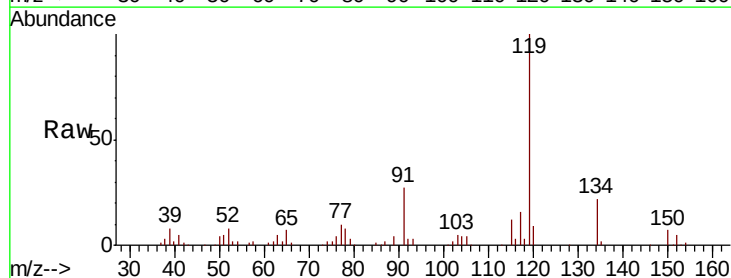
Tgt Ion:119 Resp: 135423

Ion Ratio Lower Upper

119 100

134 22.1 10.7 32.1

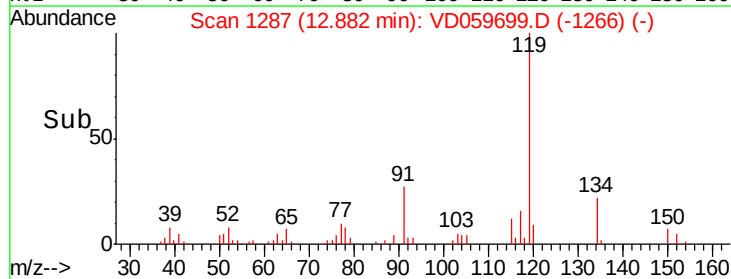
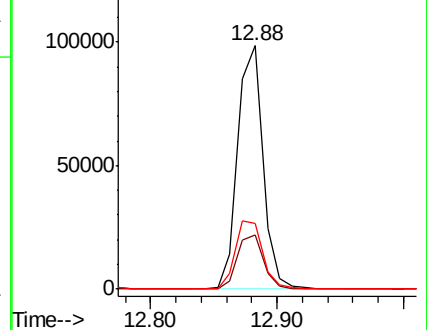
91 27.0 16.6 49.7

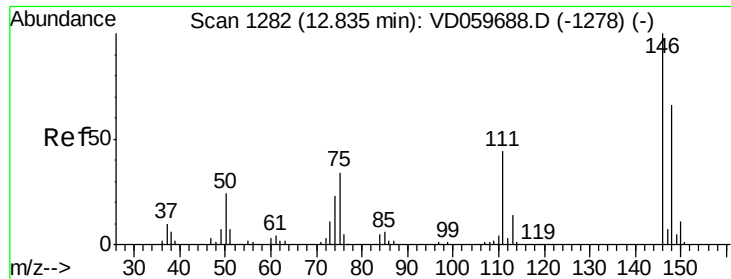


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

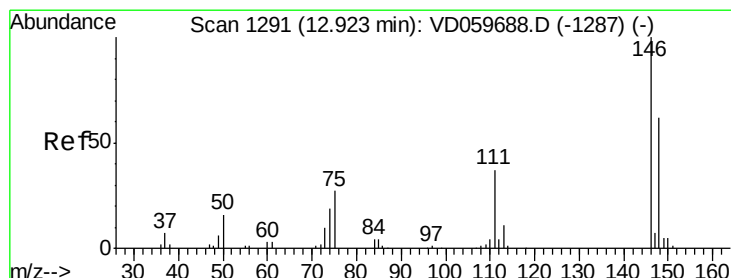
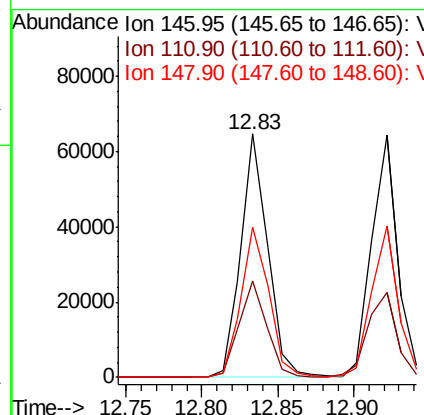
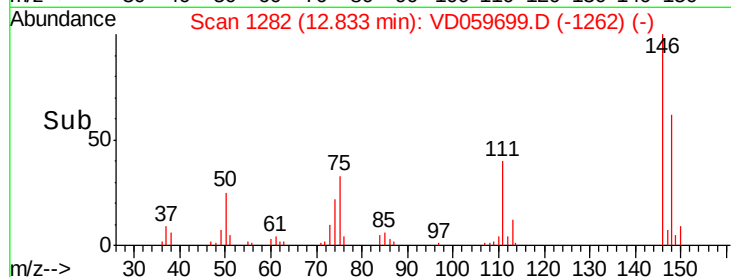
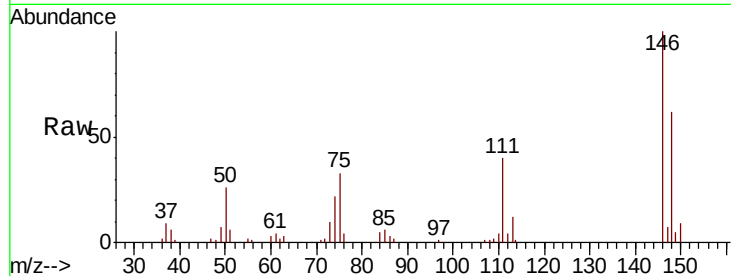




#87
 1,3-Dichlorobenzene
 Concen: 19.58 ug/l
 RT: 12.83 min Scan# 1282
 Delta R.T. -0.00 min
 Lab File: VD059699.D
 Acq: 7 Aug 2018 12:29

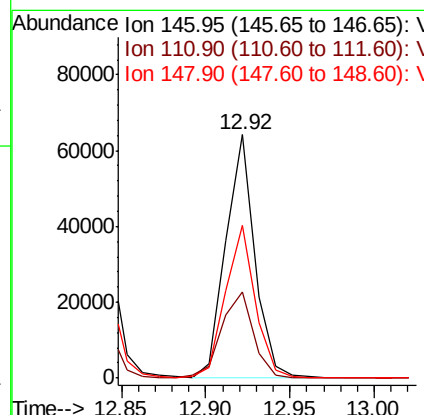
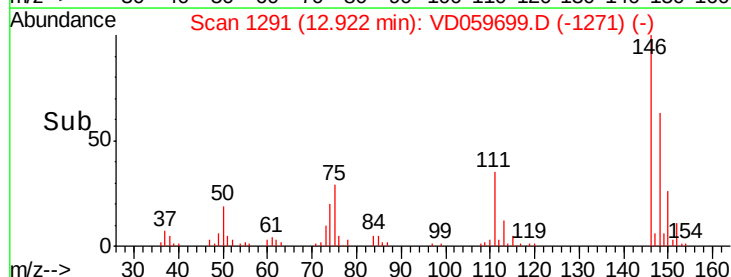
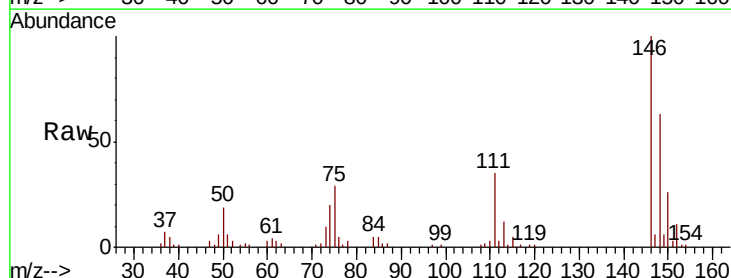
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0807SBS01

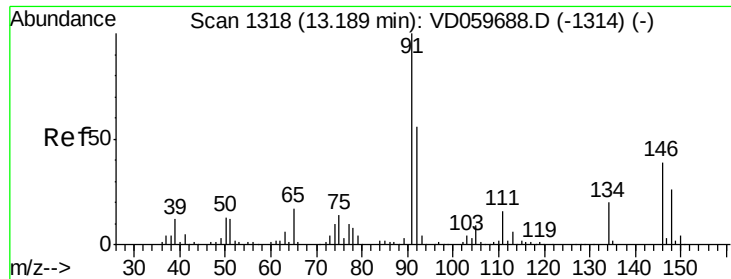
Tot Ion:146 Resp: 79639
 Ion Ratio Lower Upper
 146 100
 111 39.6 21.8 65.4
 148 61.9 33.1 99.2



#88
 1,4-Dichlorobenzene
 Concen: 18.94 ug/l
 RT: 12.92 min Scan# 1291
 Delta R.T. -0.00 min
 Lab File: VD059699.D
 Acq: 7 Aug 2018 12:29

Tgt Ion:146 Resp: 76840
 Ion Ratio Lower Upper
 146 100
 111 35.2 18.6 55.8
 148 62.6 31.2 93.6

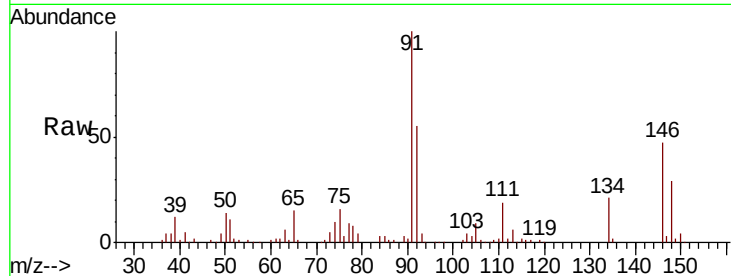




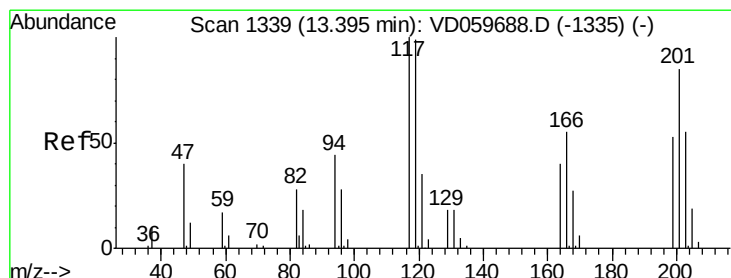
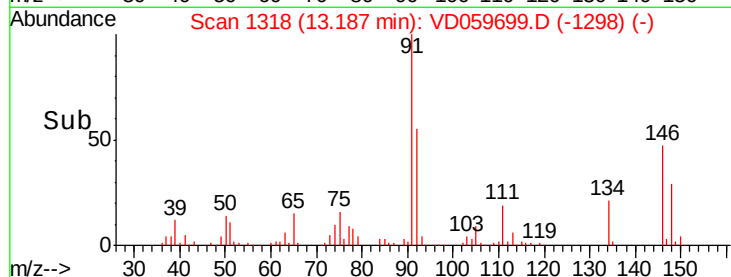
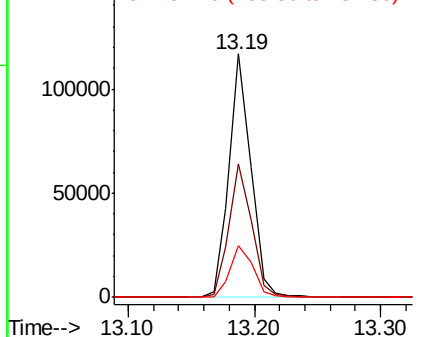
#89
n-Butylbenzene
Concen: 19.38 ug/l
RT: 13.19 min Scan# 1318
Delta R.T. -0.00 min
Lab File: VD059699.D
Acq: 7 Aug 2018 12:29

Instrument :
MSVOA_D
ClientSampleId :
VD0807SBS01

Tot Ion: 91 Resp: 140311
Ion Ratio Lower Upper
91 100
92 55.0 28.2 84.6
134 21.2 9.8 29.5

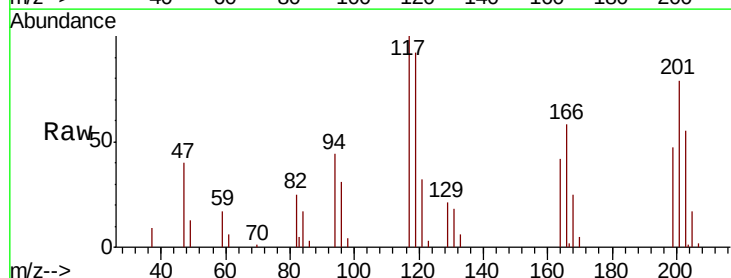


Abundance Ion 91.00 (90.70 to 91.70): V
Ion 92.00 (91.70 to 92.70): V
Ion 134.10 (133.80 to 134.80): V

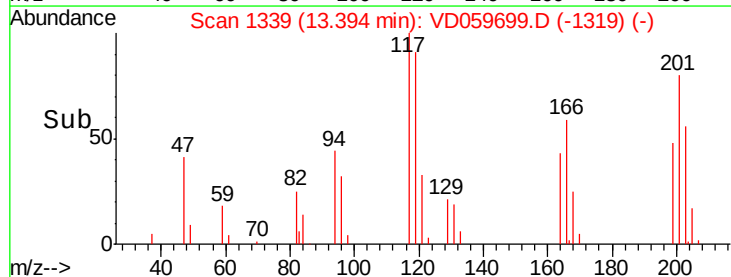
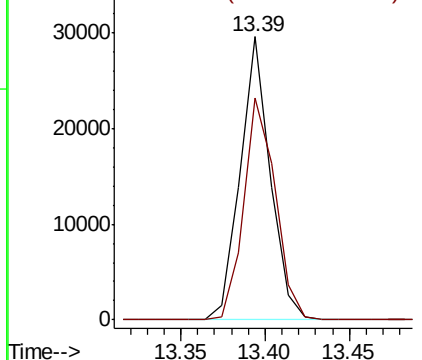


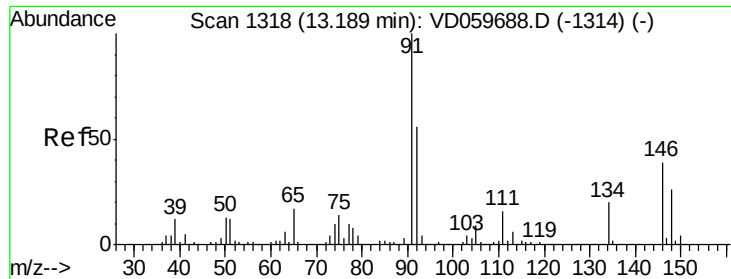
#90
Hexachloroethane
Concen: 19.67 ug/l
RT: 13.39 min Scan# 1339
Delta R.T. -0.00 min
Lab File: VD059699.D
Acq: 7 Aug 2018 12:29

Tgt Ion: 117 Resp: 36391
Ion Ratio Lower Upper
117 100
201 78.6 42.4 127.1



Abundance Ion 116.85 (116.55 to 117.55): V
Ion 200.75 (200.45 to 201.45): V

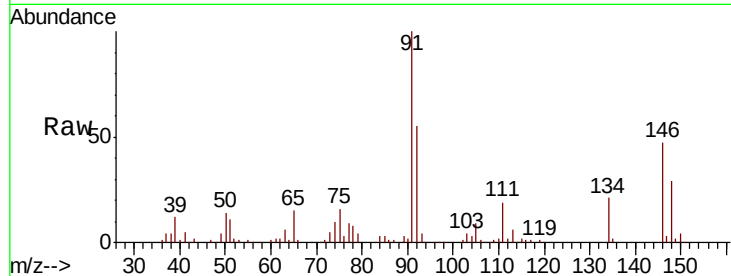




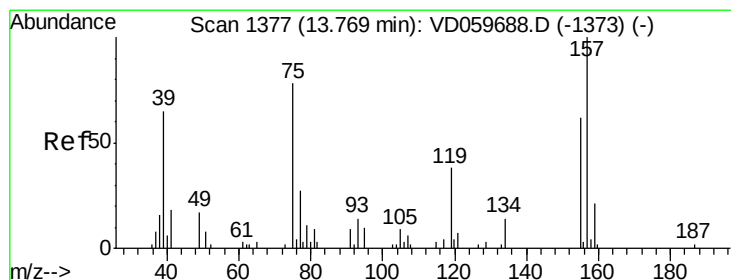
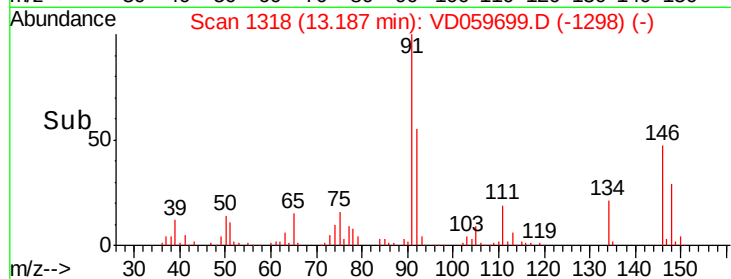
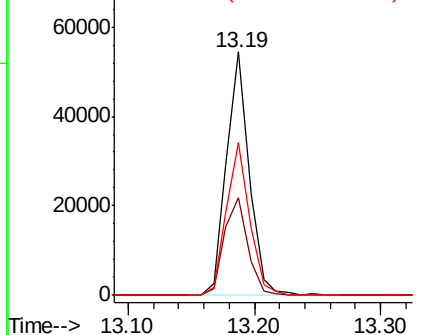
#91
 1,2-Dichlorobenzene
 Concen: 19.68 ug/l
 RT: 13.19 min Scan# 1318
 Delta R.T. -0.00 min
 Lab File: VD059699.D
 Acq: 7 Aug 2018 12:29

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0807SBS01

Tot Ion:146 Resp: 67426
 Ion Ratio Lower Upper
 146 100
 111 40.2 20.8 62.2
 148 62.9 33.4 100.2

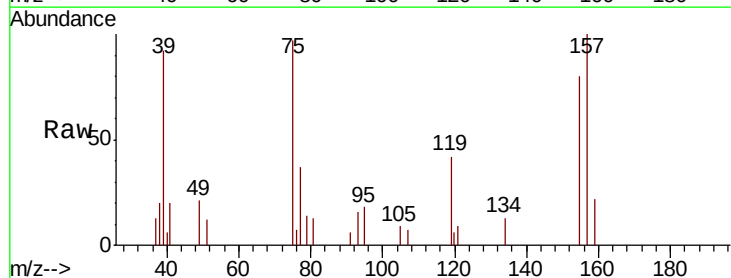


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

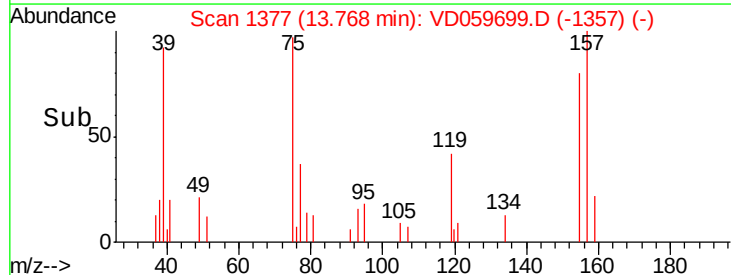
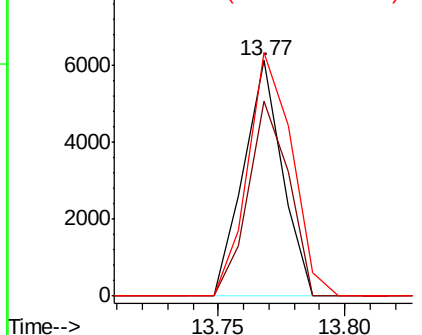


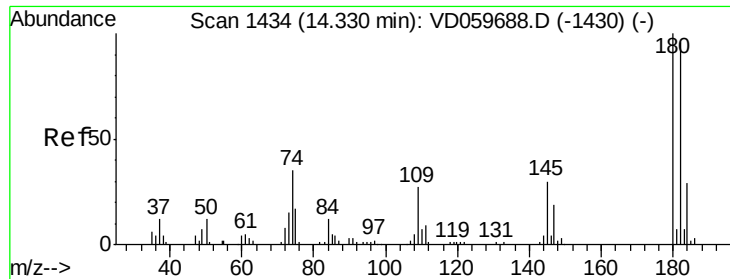
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.21 ug/l
 RT: 13.77 min Scan# 1377
 Delta R.T. -0.00 min
 Lab File: VD059699.D
 Acq: 7 Aug 2018 12:29

Tgt Ion: 75 Resp: 6511
 Ion Ratio Lower Upper
 75 100
 155 82.6 40.0 119.9
 157 103.2 64.3 192.7



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

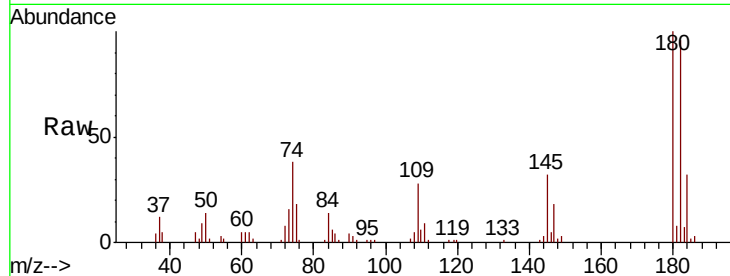




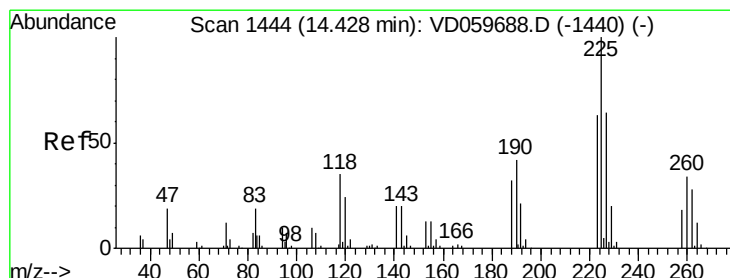
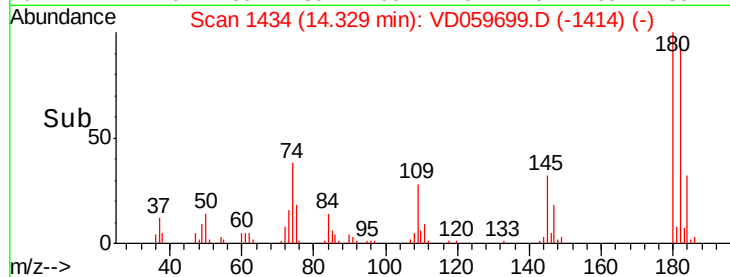
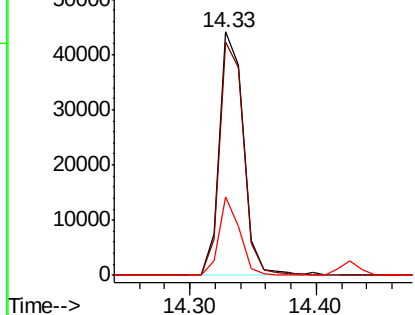
#93
 1,2,4-Trichlorobenzene
 Concen: 18.88 ug/l
 RT: 14.33 min Scan# 1434
 Delta R.T. -0.00 min
 Lab File: VD059699.D
 Acq: 7 Aug 2018 12:29

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0807SBS01

Tot Ion:180 Resp: 58168
 Ion Ratio Lower Upper
 180 100
 182 95.7 48.0 144.0
 145 32.1 14.8 44.4

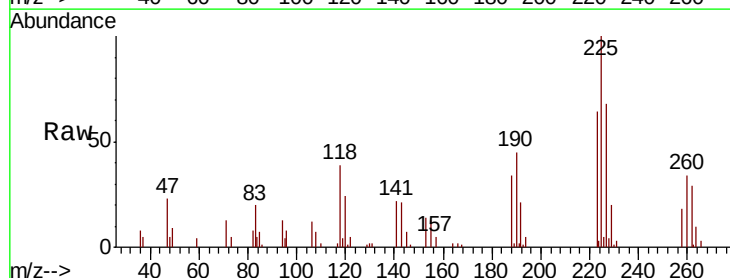


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

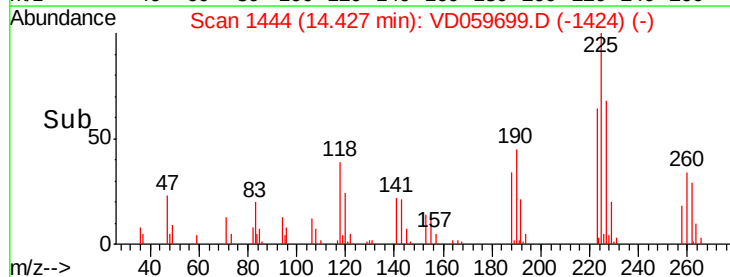
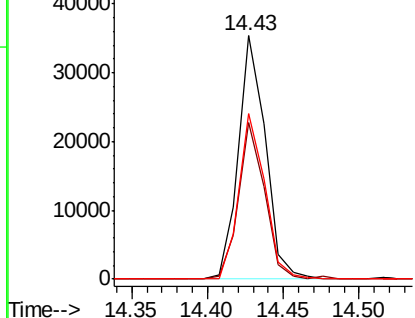


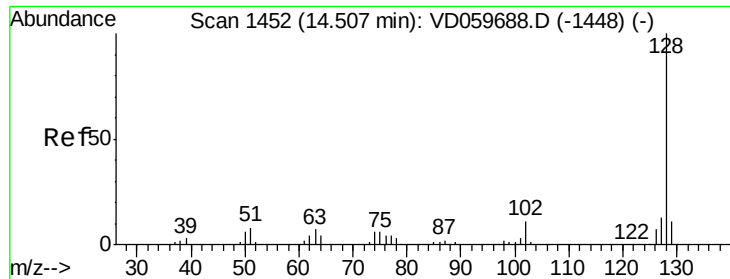
#94
 Hexachlorobutadiene
 Concen: 18.31 ug/l
 RT: 14.43 min Scan# 1444
 Delta R.T. -0.00 min
 Lab File: VD059699.D
 Acq: 7 Aug 2018 12:29

Tgt Ion:225 Resp: 43756
 Ion Ratio Lower Upper
 225 100
 223 64.4 31.4 94.3
 227 67.8 32.1 96.3



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

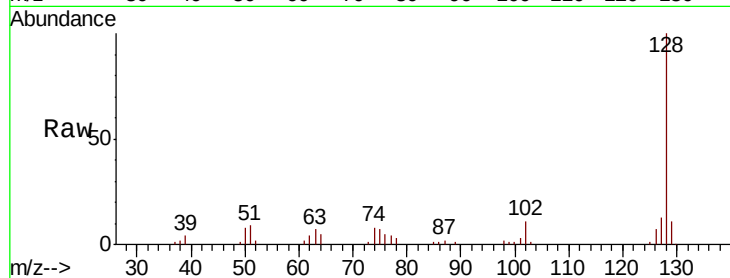




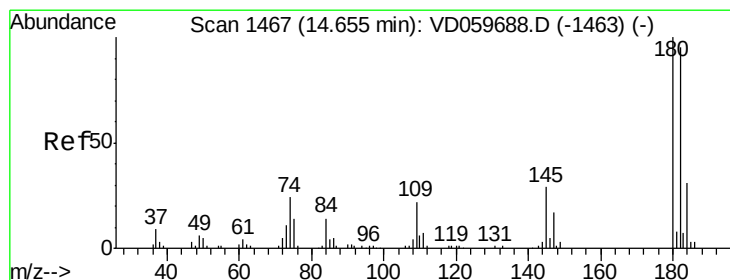
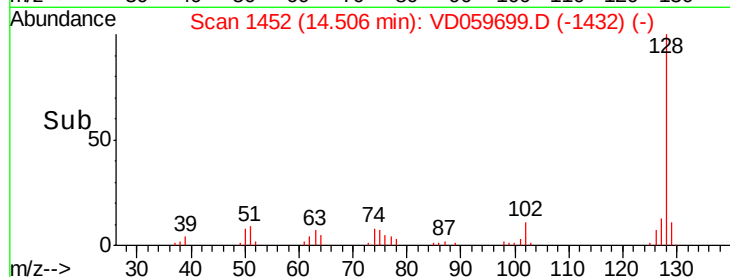
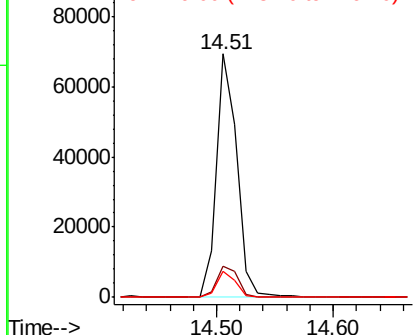
#95
Naphthalene
Concen: 18.44 ug/l
RT: 14.51 min Scan# 1452
Delta R.T. -0.00 min
Lab File: VD059699.D
Acq: 7 Aug 2018 12:29

Instrument :
MSVOA_D
ClientSampleId :
VD0807SBS01

Tot Ion:128 Resp: 84136
Ion Ratio Lower Upper
128 100
127 12.9 10.6 16.0
129 10.9 8.8 13.2

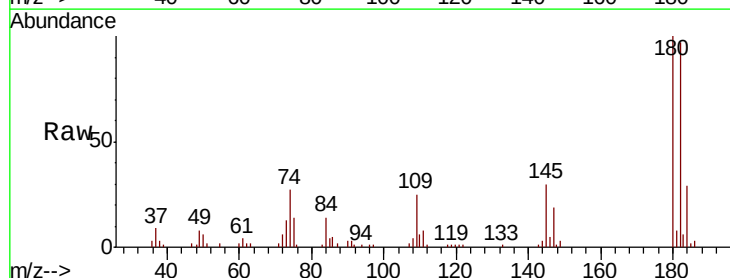


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 19.72 ug/l
RT: 14.65 min Scan# 1467
Delta R.T. -0.00 min
Lab File: VD059699.D
Acq: 7 Aug 2018 12:29

Tgt Ion:180 Resp: 53155
Ion Ratio Lower Upper
180 100
182 97.1 47.5 142.5
145 30.2 14.5 43.5



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

