

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062218\
 Data File : VD058319.D
 Acq On : 23 Jun 2018 3:48
 Operator : VA/AP
 Sample : VD0622SBS02
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0622SBS02

Quant Time: Jun 23 04:12:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 20 05:52:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	930131	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	6.70	114	1247194	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.69	117	996383	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	507109	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	544795	57.99	ug/l	0.02
Spiked Amount			Recovery	=	115.98%	
35) Dibromofluoromethane	5.56	113	566534	55.81	ug/l	0.02
Spiked Amount			Recovery	=	111.62%	
50) Toluene-d8	8.71	98	1291730	52.60	ug/l	0.00
Spiked Amount			Recovery	=	105.20%	
62) 4-Bromofluorobenzene	11.93	95	533518	53.18	ug/l	0.00
Spiked Amount			Recovery	=	106.36%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.35	85	240325	25.600	ug/l	98
3) Chloromethane	1.50	50	113455	25.846	ug/l	98
4) Vinyl Chloride	1.57	62	114175	23.432	ug/l	96
5) Bromomethane	1.80	94	37383	20.382	ug/l	100
6) Chloroethane	1.89	64	37626	19.793	ug/l	100
7) Trichlorofluoromethane	2.09	101	148253	22.191	ug/l	96
8) Diethyl Ether	2.36	74	32803	23.214	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.56	101	99978	23.540	ug/l	95
10) Methyl Iodide	2.70	142	105521	21.842	ug/l	96
11) Tert butyl alcohol	3.28	59	29945	96.639	ug/l #	88
12) 1,1-Dichloroethene	2.55	96	74920	23.445	ug/l	93
13) Acrolein	2.48	56	18113	102.398	ug/l	98
14) Allyl chloride	2.94	41	170135	22.875	ug/l	97
15) Acrylonitrile	3.39	53	141063	171.689	ug/l	97
16) Acetone	2.62	43	124394	96.817	ug/l	95
17) Carbon Disulfide	2.76	76	233942	21.518	ug/l	98
18) Methyl Acetate	2.95	43	63953	23.339	ug/l	99
19) Methyl tert-butyl Ether	3.42	73	376331	44.401	ug/l	97
20) Methylene Chloride	3.08	84	81398	21.557	ug/l	97
21) trans-1,2-Dichloroethene	3.40	96	172074	49.271	ug/l	89
22) Diisopropyl ether	4.09	45	654442	22.155	ug/l	98
23) Vinyl Acetate	4.03	43	1796641	113.462	ug/l	100
24) 1,1-Dichloroethane	3.99	63	390317	24.527	ug/l	98
25) 2-Butanone	4.86	43	312215	111.492	ug/l	97
26) 2,2-Dichloropropane	4.81	77	276456	20.747	ug/l	96
27) cis-1,2-Dichloroethene	4.82	96	214752	24.607	ug/l	98
28) Bromochloromethane	5.16	49	164631	23.077	ug/l	93
29) Tetrahydrofuran	5.20	42	161359	108.254	ug/l	98
30) Chloroform	5.34	83	394795	23.499	ug/l	93
31) Cyclohexane	5.60	56	301263	23.280	ug/l	100
32) 1,1,1-Trichloroethane	5.53	97	325088	23.419	ug/l	98
36) 1,1-Dichloropropene	5.75	75	275654	22.342	ug/l	94
37) Ethyl Acetate	4.93	43	151903	21.609	ug/l	98
38) Carbon Tetrachloride	5.73	117	271465	22.144	ug/l	93

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 Data File : VD058319.D
 Acq On : 23 Jun 2018 3:48
 Operator : VA/AP
 Sample : VD0622SBSD02
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0622SBSD02

Quant Time: Jun 23 04:12:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 20 05:52:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.29	83	260566	21.682	ug/l	96
40) Benzene	6.03	78	647104	22.018	ug/l	99
41) Methacrylonitrile	5.13	41	73977	21.793	ug/l	95
42) 1,2-Dichloroethane	6.14	62	267847	22.602	ug/l	100
43) Isopropyl Acetate	7.62	43	200275	21.369	ug/l #	95
44) Trichloroethene	6.99	130	191416	21.689	ug/l	99
45) 1,2-Dichloropropane	7.36	63	181566	22.939	ug/l	98
46) Dibromomethane	7.47	93	121715	22.526	ug/l	98
47) Bromodichloromethane	7.75	83	281158	22.818	ug/l	97
48) Methyl methacrylate	7.51	41	118159	20.744	ug/l	99
49) 1,4-Dioxane	7.50	88	21130	410.952	ug/l	94
51) 4-Methyl-2-Pentanone	8.61	43	668911	109.422	ug/l	97
52) Toluene	8.81	92	378013	22.588	ug/l	99
53) t-1,3-Dichloropropene	9.20	75	226807	21.172	ug/l	100
54) cis-1,3-Dichloropropene	8.37	75	276343	22.003	ug/l	96
55) 1,1,2-Trichloroethane	9.46	97	133390	22.528	ug/l	97
56) Ethyl methacrylate	9.32	69	159080	22.465	ug/l	97
57) 1,3-Dichloropropane	9.67	76	222996	22.359	ug/l	97
58) 2-Chloroethyl Vinyl ether	8.19	63	406439	115.943	ug/l	100
59) 2-Hexanone	9.80	43	470892	106.603	ug/l	95
60) Dibromochloromethane	9.96	129	169471	21.090	ug/l	98
61) 1,2-Dibromoethane	10.10	107	149759	23.109	ug/l	100
64) Tetrachloroethene	9.52	164	200043	23.861	ug/l	93
65) Chlorobenzene	10.73	112	436893	23.441	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.85	131	154427	21.471	ug/l	99
67) Ethyl Benzene	10.86	91	727608	22.113	ug/l	99
68) m/p-Xylenes	11.02	106	494504	45.066	ug/l	98
69) o-Xylene	11.41	106	250289	23.882	ug/l	98
70) Styrene	11.43	104	418554	23.405	ug/l	95
71) Bromoform	11.60	173	127323	22.191	ug/l #	94
73) Isopropylbenzene	11.78	105	706551	23.293	ug/l	98
74) N-amyl acetate	11.65	43	253389	21.605	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.08	83	159168	22.549	ug/l	97
76) 1,2,3-Trichloropropane	12.11	75	168525	22.762	ug/l	99
77) Bromobenzene	12.04	156	205040	22.574	ug/l	86
78) n-propylbenzene	12.16	91	883324	22.550	ug/l	99
79) 2-Chlorotoluene	12.22	91	494915	22.079	ug/l	99
80) 1,3,5-Trimethylbenzene	12.32	105	551989	23.331	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.85	75	36201	20.047	ug/l	95
82) 4-Chlorotoluene	12.33	91	584403	23.915	ug/l	91
83) tert-Butylbenzene	12.57	119	616204	22.654	ug/l	96
84) 1,2,4-Trimethylbenzene	12.62	105	558791	21.728	ug/l	99
85) sec-Butylbenzene	12.76	105	697763	21.886	ug/l	97
86) p-Isopropyltoluene	12.89	119	574927	22.252	ug/l	98
87) 1,3-Dichlorobenzene	12.84	146	352711	22.342	ug/l	96
88) 1,4-Dichlorobenzene	12.93	146	349923	22.698	ug/l	98
89) n-Butylbenzene	13.19	91	597425	22.002	ug/l	94
90) Hexachloroethane	13.40	117	150184	22.396	ug/l	75
91) 1,2-Dichlorobenzene	13.19	146	290820	21.647	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.77	75	26707	23.774	ug/l	64

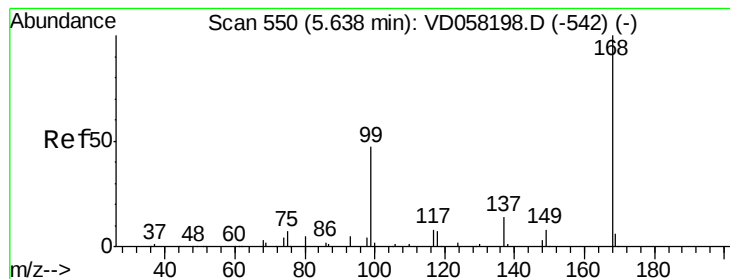
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD062218\
Data File : VD058319.D
Acq On : 23 Jun 2018 3:48
Operator : VA/AP
Sample : VD0622SBSD02
Misc : 5.00g/5ml/MSVOA D/SOIL
ALS Vial : 33 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VD0622SBSD02

Quant Time: Jun 23 04:12:44 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
Quant Title : SW846 8260
QLast Update : Wed Jun 20 05:52:56 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.35	180	276195	21.495	ug/l	98
94) Hexachlorobutadiene	14.43	225	204549	20.353	ug/l	96
95) Naphthalene	14.51	128	371012	21.920	ug/l	97
96) 1,2,3-Trichlorobenzene	14.66	180	236878	21.058	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 551

Delta R.T. 0.02 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

Instrument :

MSVOA_D

ClientSampleId :

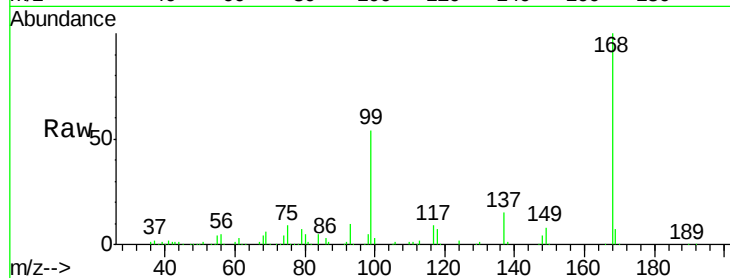
VD0622SBSD02

Tot Ion:168 Resp: 930131

Ion Ratio Lower Upper

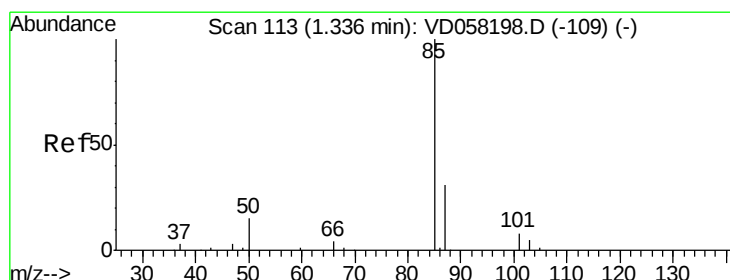
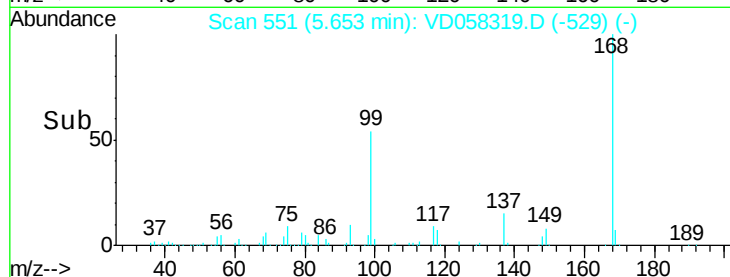
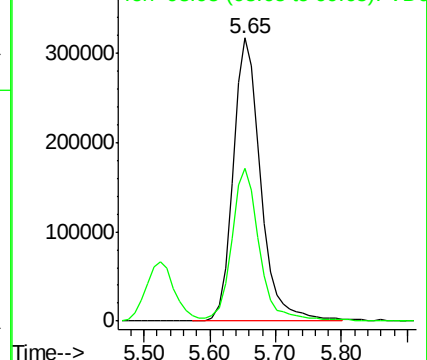
168 100

99 54.1 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 25.600 ug/l

RT: 1.35 min Scan# 114

Delta R.T. 0.02 min

Lab File: VD058319.D

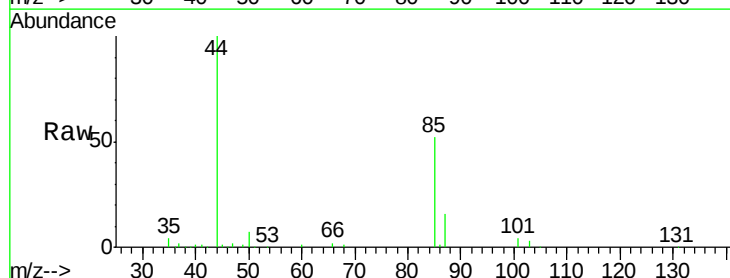
Acq: 23 Jun 2018 3:48

Tgt Ion: 85 Resp: 240325

Ion Ratio Lower Upper

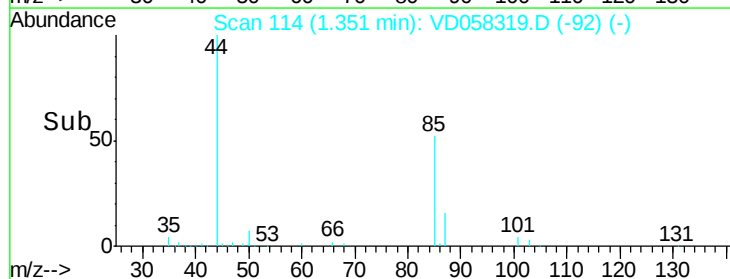
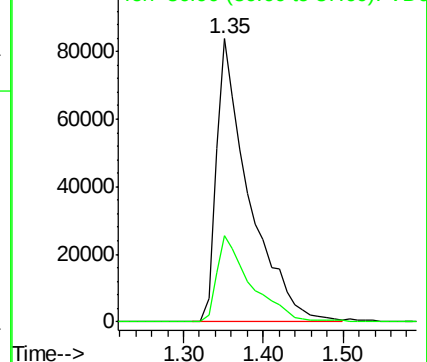
85 100

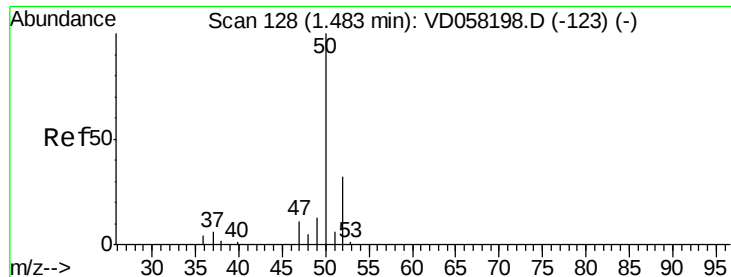
87 30.3 15.7 47.0



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 25.846 ug/l

RT: 1.50 min Scan# 129

Delta R.T. 0.02 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

Instrument :

MSVOA_D

ClientSampleId :

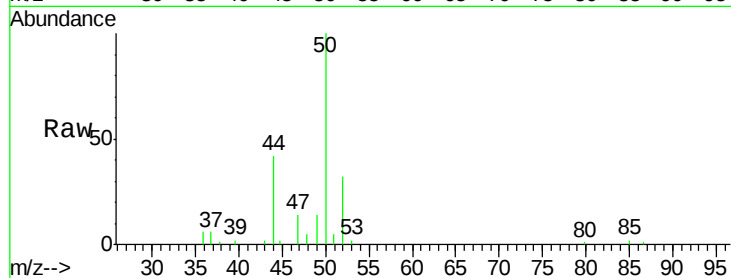
VD0622SBS02

Tot Ion: 50 Resp: 113455

Ion Ratio Lower Upper

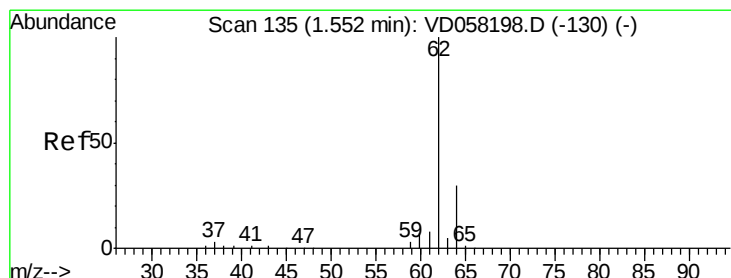
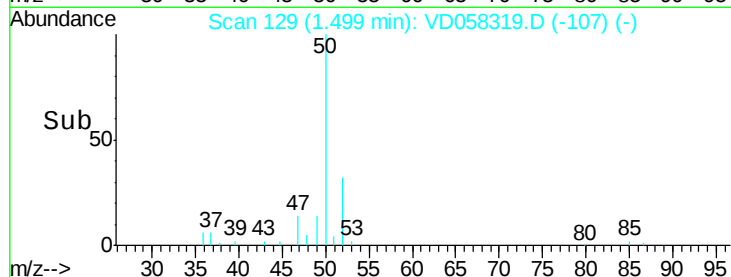
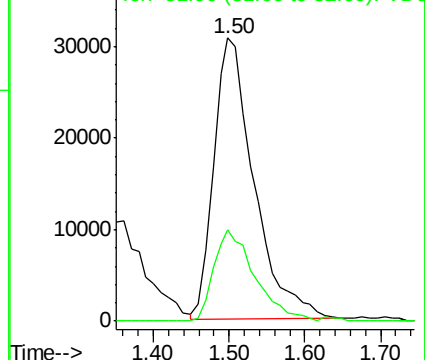
50 100

52 32.3 25.0 37.4



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 23.432 ug/l

RT: 1.57 min Scan# 136

Delta R.T. 0.02 min

Lab File: VD058319.D

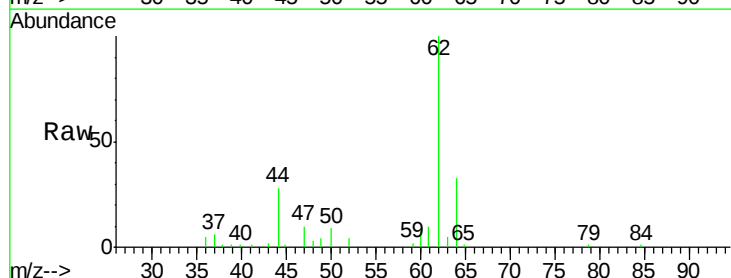
Acq: 23 Jun 2018 3:48

Tgt Ion: 62 Resp: 114175

Ion Ratio Lower Upper

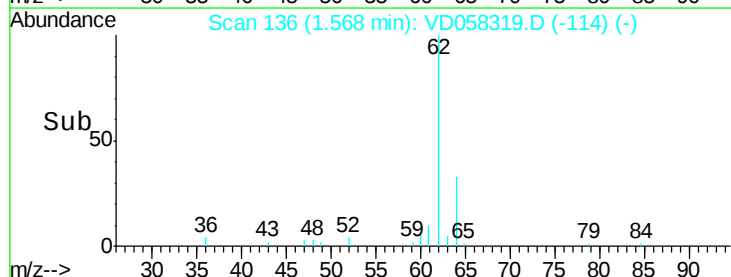
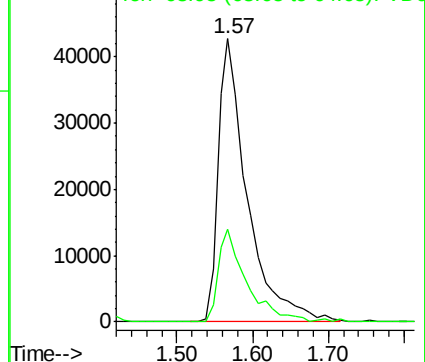
62 100

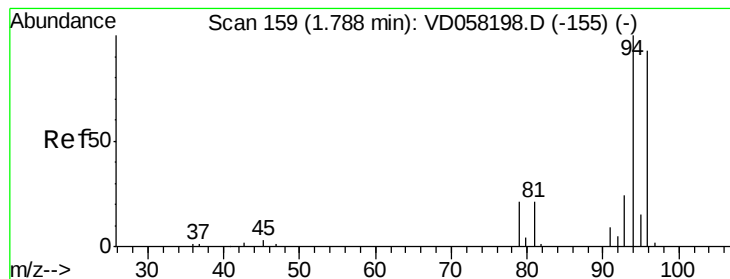
64 32.9 24.4 36.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 20.382 ug/l

RT: 1.80 min Scan# 160

Delta R.T. 0.02 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

Instrument :

MSVOA_D

ClientSampleId :

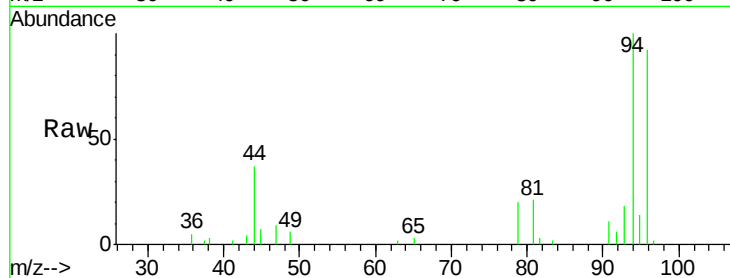
VD0622SBS02

Tot Ion: 94 Resp: 37383

Ion Ratio Lower Upper

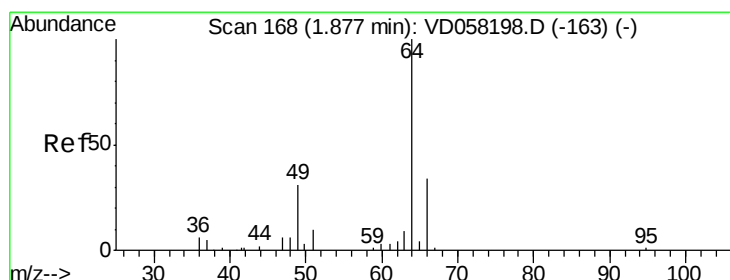
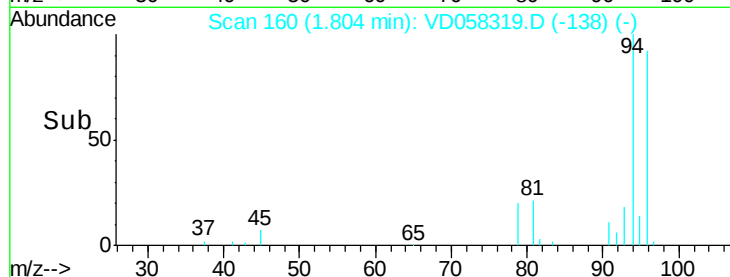
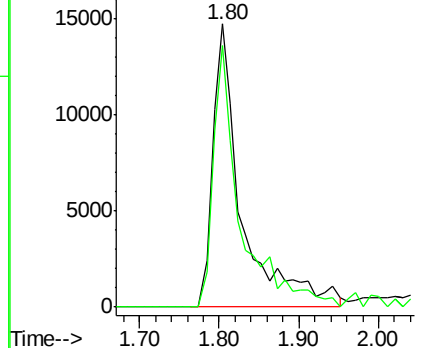
94 100

96 92.4 74.2 111.2



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 19.793 ug/l

RT: 1.89 min Scan# 169

Delta R.T. 0.02 min

Lab File: VD058319.D

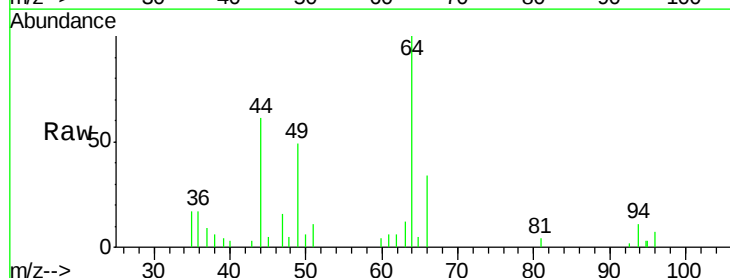
Acq: 23 Jun 2018 3:48

Tgt Ion: 64 Resp: 37626

Ion Ratio Lower Upper

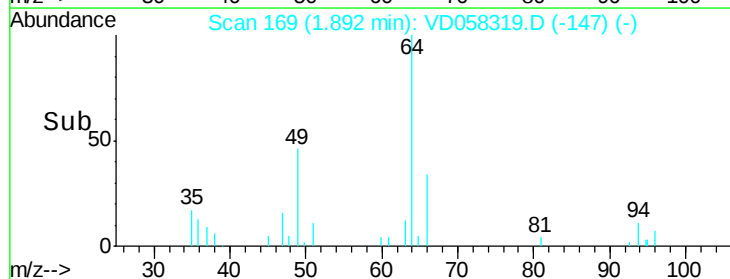
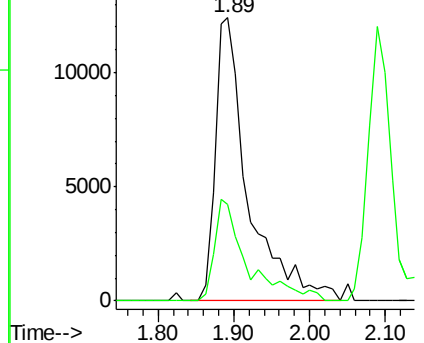
64 100

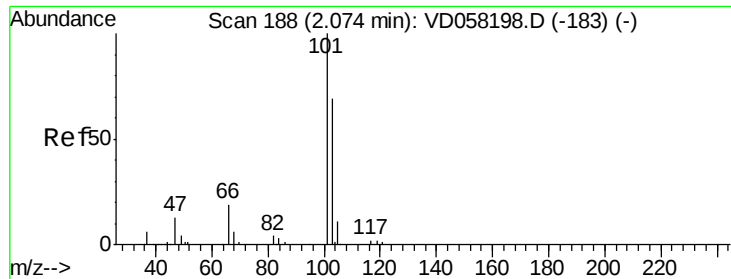
66 34.3 27.3 40.9



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



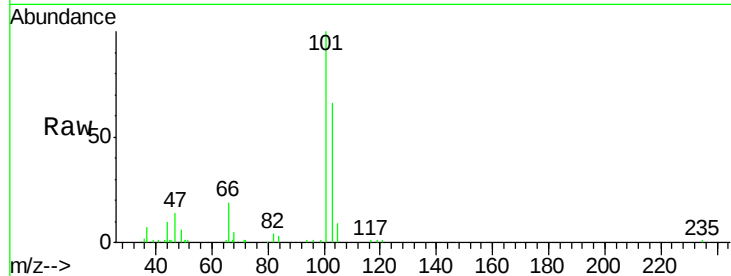


#7

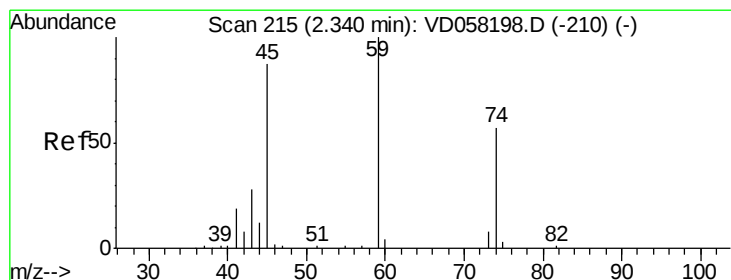
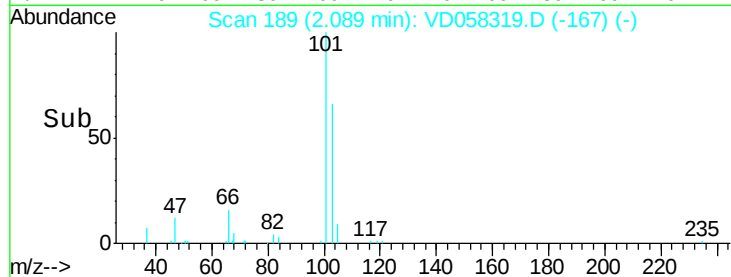
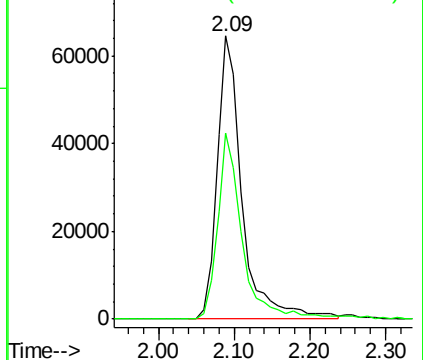
Trichlorofluoromethane
Concen: 22.191 ug/l
RT: 2.09 min Scan# 189
Delta R.T. 0.02 min
Lab File: VD058319.D
Acq: 23 Jun 2018 3:48

Instrument :
MSVOA_D
ClientSampleId :
VD0622SBS02

Tot Ion:101 Resp: 148253
Ion Ratio Lower Upper
101 100
103 65.8 55.1 82.7



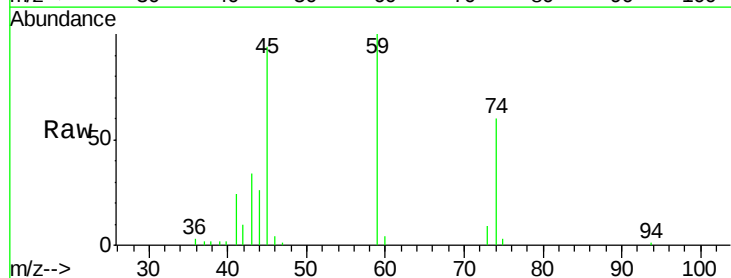
Abundance Ion 100.85 (100.55 to 101.55): V
Ion 102.85 (102.55 to 103.55): V



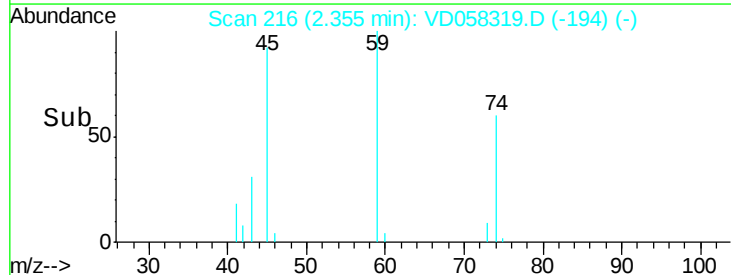
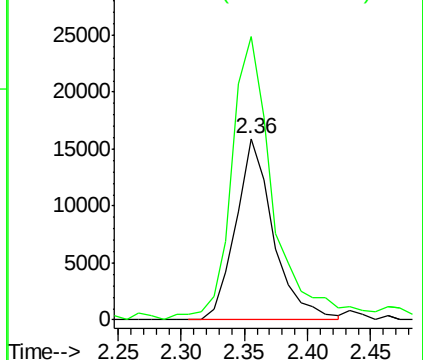
#8

Diethyl Ether
Concen: 23.214 ug/l
RT: 2.36 min Scan# 216
Delta R.T. 0.02 min
Lab File: VD058319.D
Acq: 23 Jun 2018 3:48

Tgt Ion: 74 Resp: 32803
Ion Ratio Lower Upper
74 100
45 155.9 77.5 232.6



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: 23.540 ug/l

RT: 2.56 min Scan# 237

Delta R.T. 0.02 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

Instrument :

MSVOA_D

ClientSampleId :

VD0622SBSD02

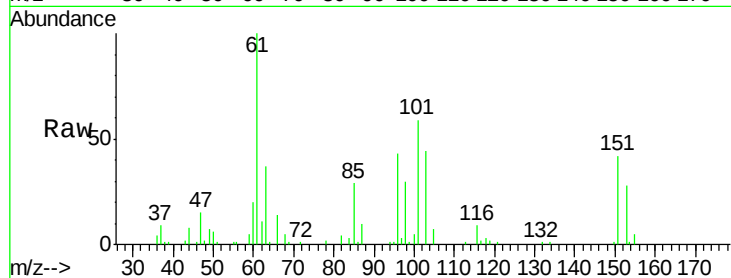
Tot Ion:101 Resp: 99978

Ion Ratio Lower Upper

101 100

85 49.6 39.0 58.4

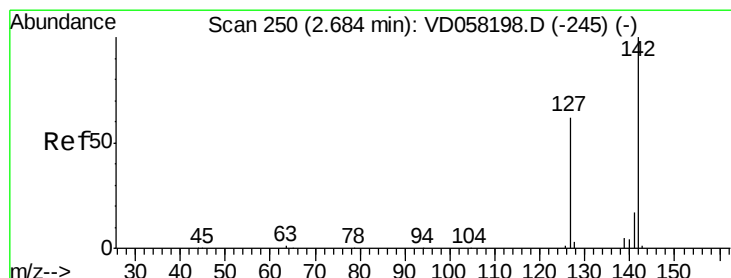
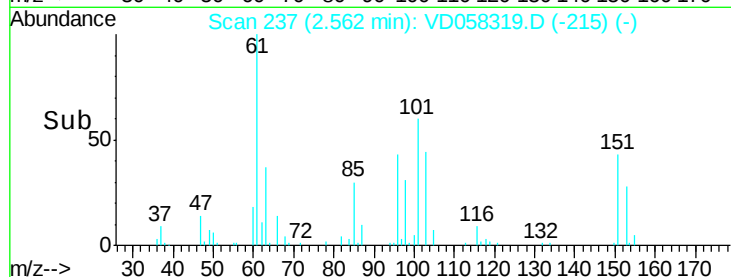
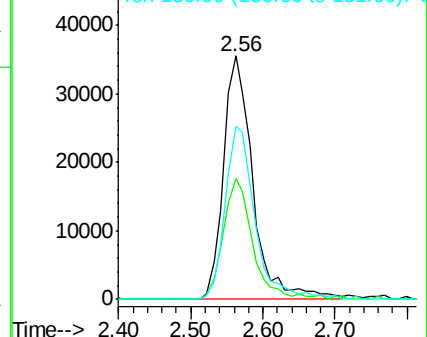
151 71.3 61.8 92.8



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: 21.842 ug/l

RT: 2.70 min Scan# 251

Delta R.T. 0.02 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

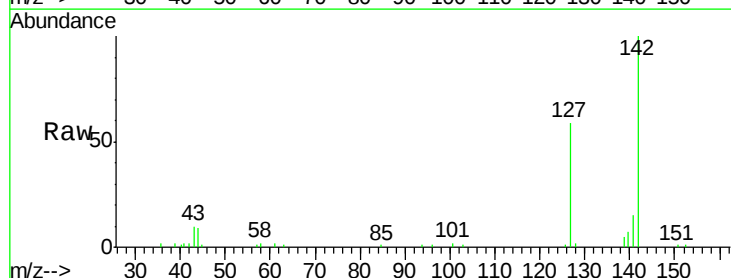
Tgt Ion:142 Resp: 105521

Ion Ratio Lower Upper

142 100

127 58.9 49.4 74.0

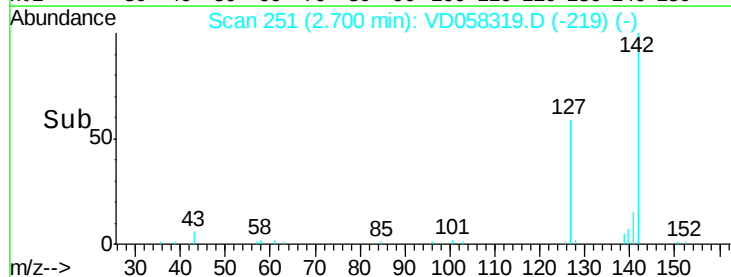
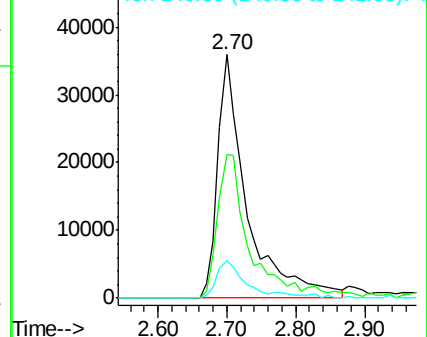
141 15.3 13.5 20.3



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

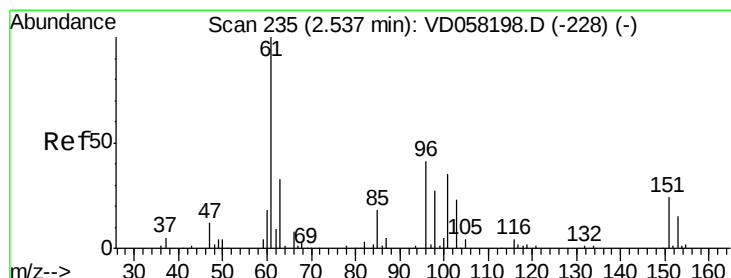
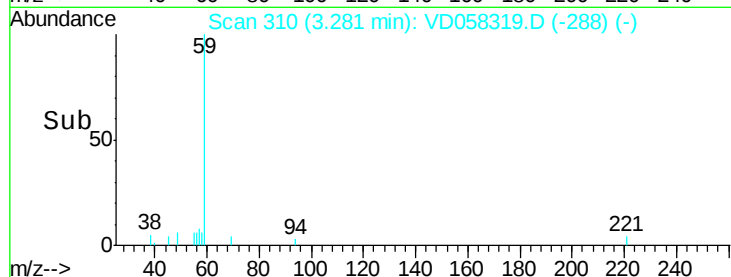
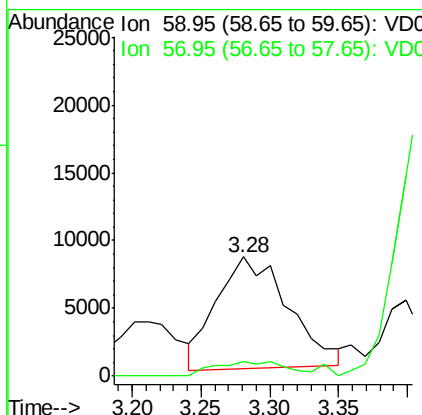
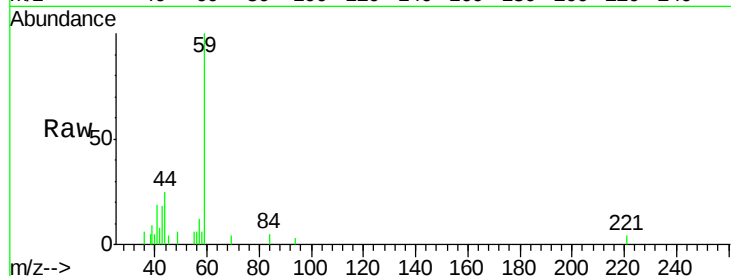




#11
Tert butyl alcohol
Concen: 96.639 ug/l
RT: 3.28 min Scan# 310
Delta R.T. 0.02 min
Lab File: VD058319.D
Acq: 23 Jun 2018 3:48

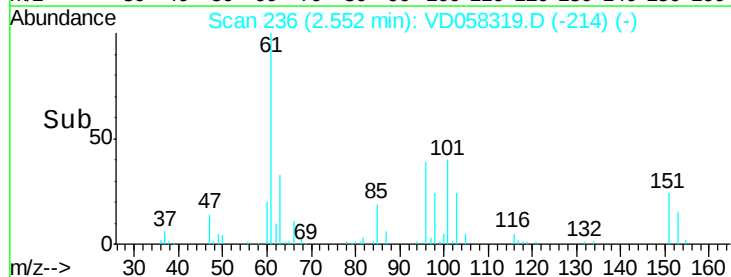
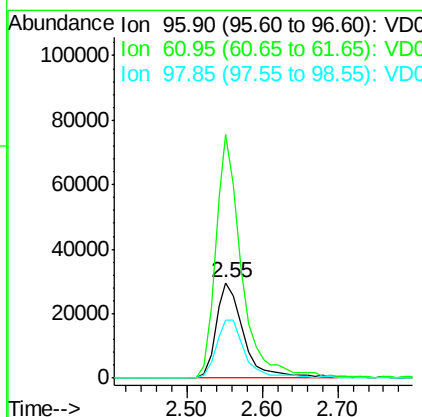
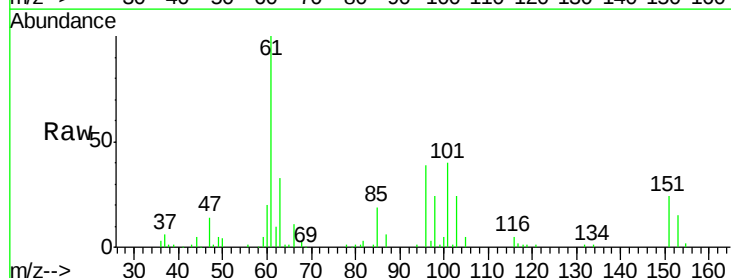
Instrument :
MSVOA_D
ClientSampleId :
VD0622SBS02

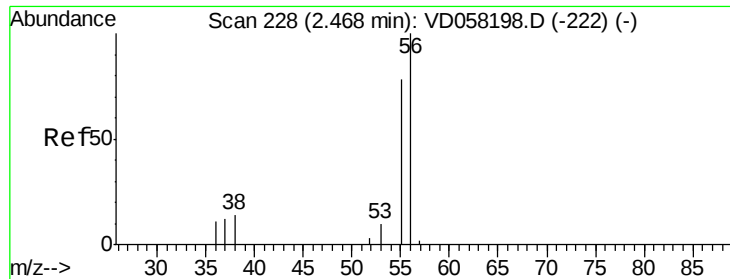
Tot Ion: 59 Resp: 29945
Ion Ratio Lower Upper
59 100
57 11.9 6.2 9.4#



#12
1,1-Dichloroethene
Concen: 23.445 ug/l
RT: 2.55 min Scan# 236
Delta R.T. 0.02 min
Lab File: VD058319.D
Acq: 23 Jun 2018 3:48

Tgt Ion: 96 Resp: 74920
Ion Ratio Lower Upper
96 100
61 255.6 193.9 290.9
98 61.6 51.7 77.5





#13

Acrolein

Concen: 102.398 ug/l

RT: 2.48 min Scan# 229

Delta R.T. 0.02 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

Instrument :

MSVOA_D

ClientSampleId :

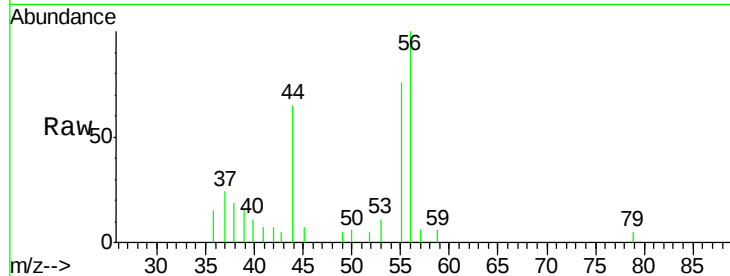
VD0622SBS02

Tot Ion: 56 Resp: 18113

Ion Ratio Lower Upper

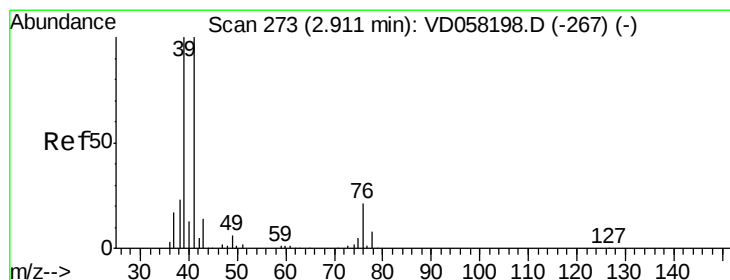
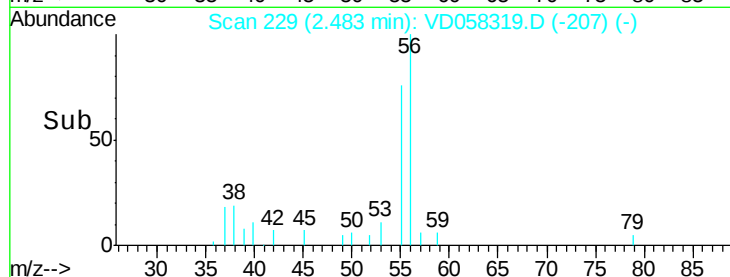
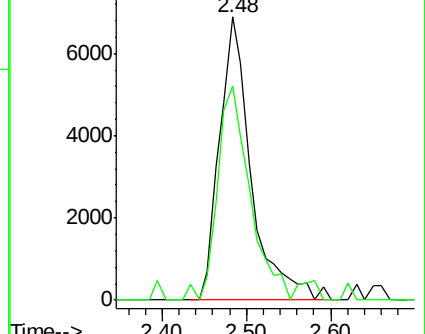
56 100

55 75.6 62.1 93.1



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 22.875 ug/l

RT: 2.94 min Scan# 275

Delta R.T. 0.03 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

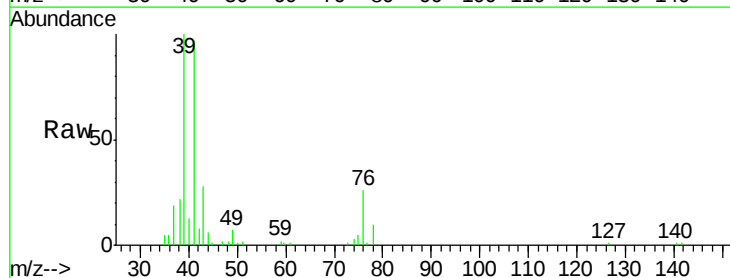
Tgt Ion: 41 Resp: 170135

Ion Ratio Lower Upper

41 100

39 103.2 80.1 120.1

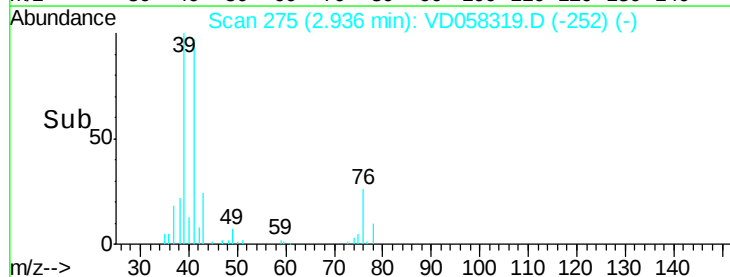
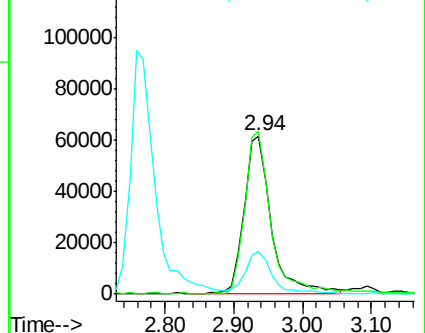
76 26.8 19.4 29.2

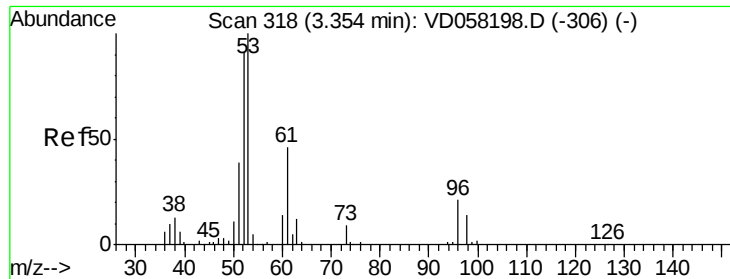


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 171.689 ug/l

RT: 3.39 min Scan# 321

Delta R.T. 0.04 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

Instrument :

MSVOA_D

ClientSampleId :

VD0622SBS02

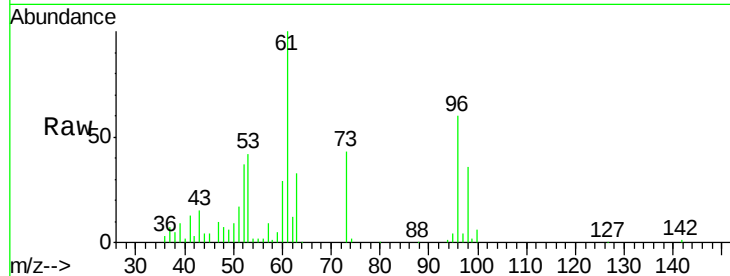
Tot Ion: 53 Resp: 141063

Ion Ratio Lower Upper

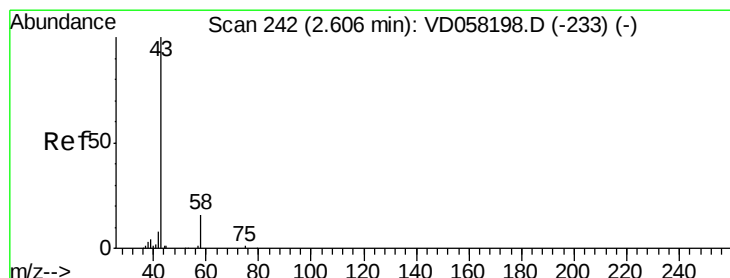
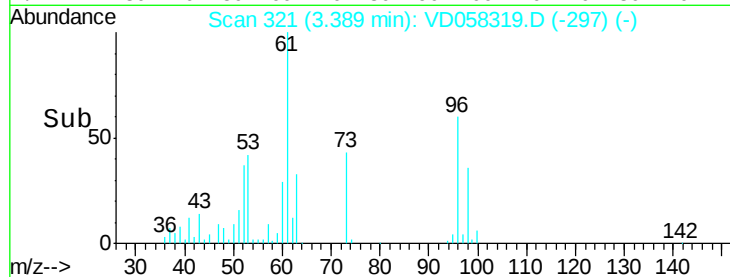
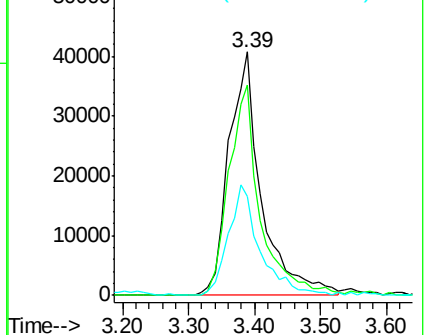
53 100

52 86.4 72.6 108.8

51 40.9 32.2 48.4



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



#16

Acetone

Concen: 96.817 ug/l

RT: 2.62 min Scan# 243

Delta R.T. 0.02 min

Lab File: VD058319.D

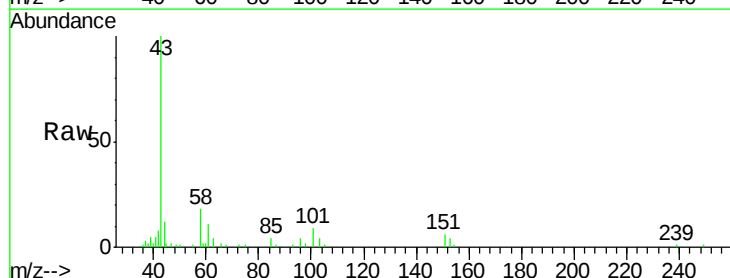
Acq: 23 Jun 2018 3:48

Tgt Ion: 43 Resp: 124394

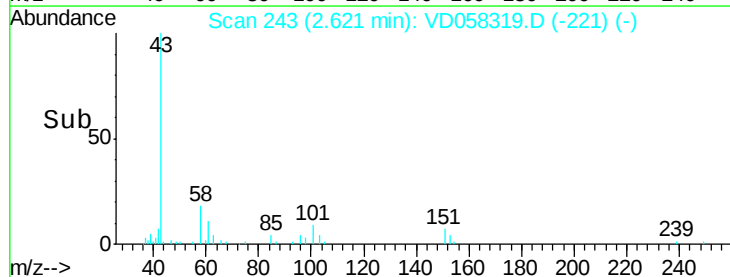
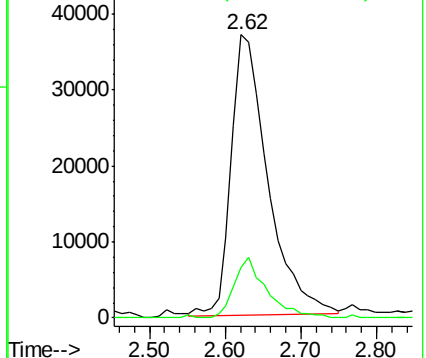
Ion Ratio Lower Upper

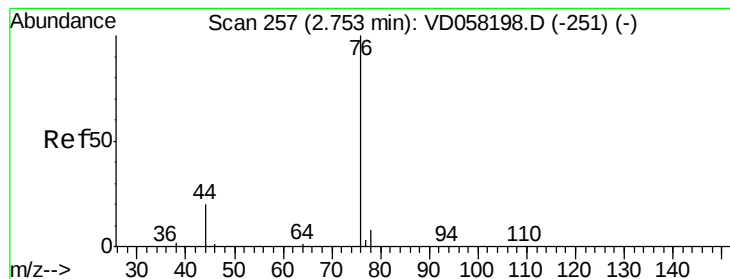
43 100

58 17.9 12.7 19.1



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





#17

Carbon Disulfide

Concen: 21.518 ug/l

RT: 2.76 min Scan# 257

Delta R.T. 0.01 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

Instrument :

MSVOA_D

ClientSampleId :

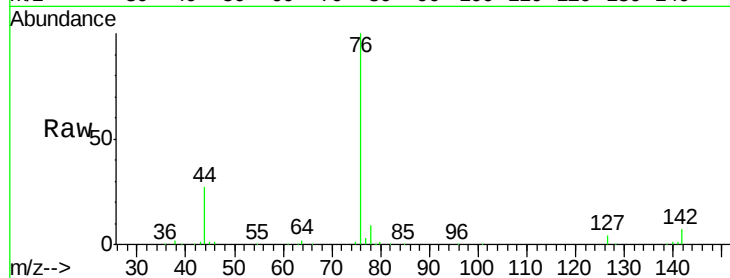
VD0622SBSD02

Tot Ion: 76 Resp: 233942

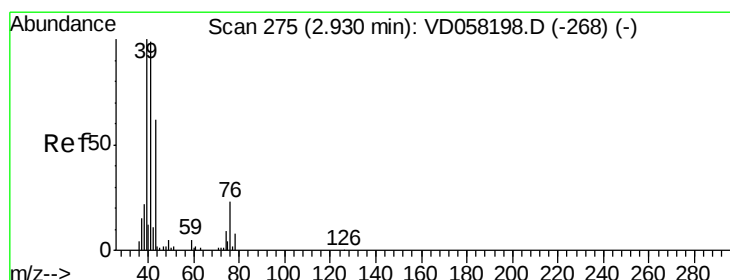
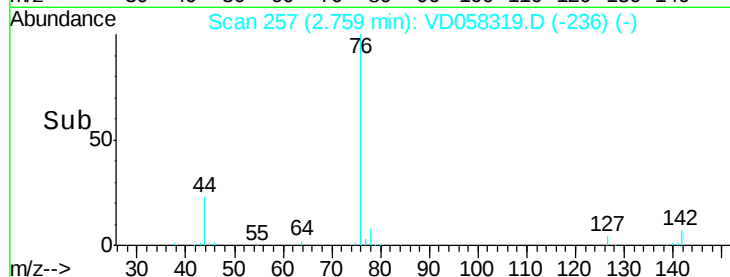
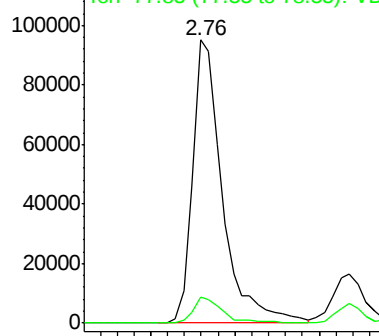
Ion Ratio Lower Upper

76 100

78 9.3 6.8 10.2



Abundance Ion 75.85 (75.55 to 76.55): VDC
Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 23.339 ug/l

RT: 2.95 min Scan# 276

Delta R.T. 0.02 min

Lab File: VD058319.D

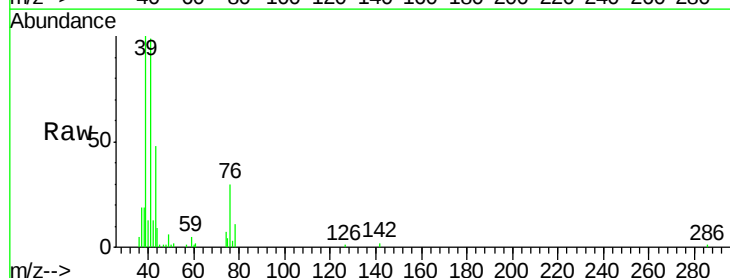
Acq: 23 Jun 2018 3:48

Tgt Ion: 43 Resp: 63953

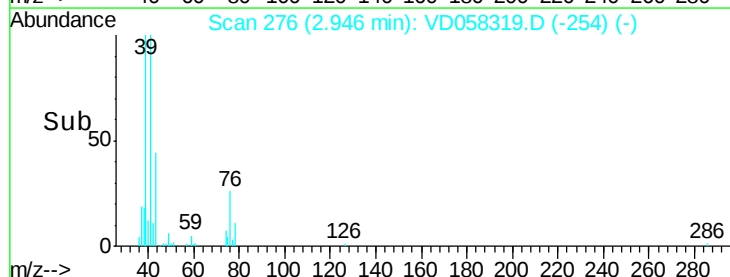
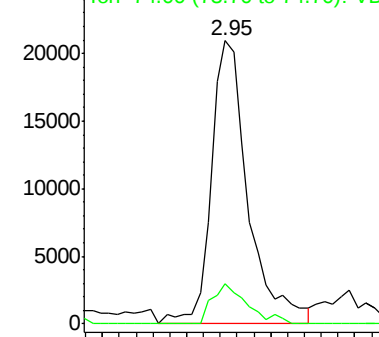
Ion Ratio Lower Upper

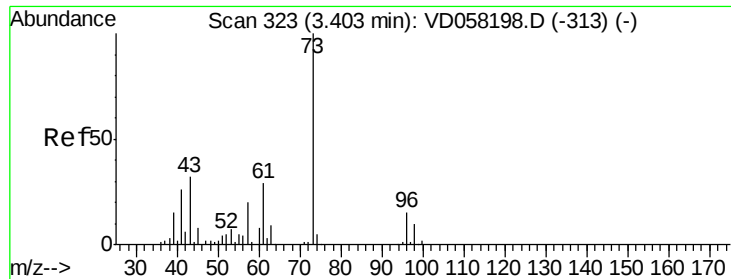
43 100

74 14.0 11.7 17.5



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 74.00 (73.70 to 74.70): VDC



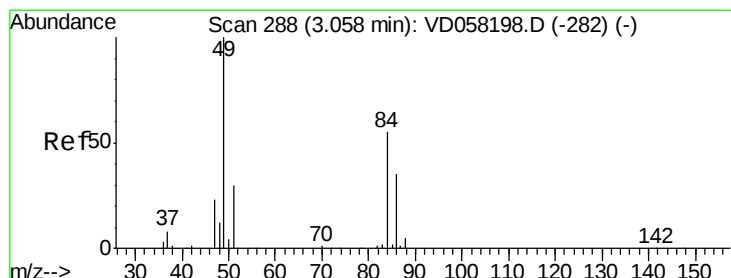
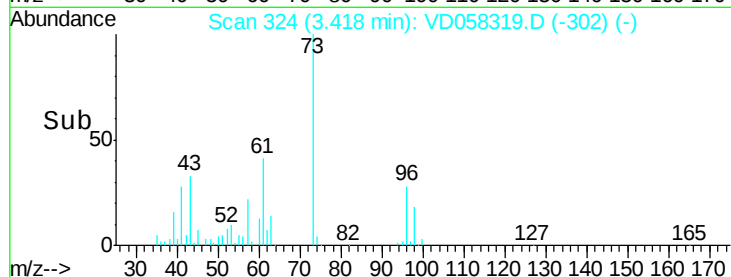
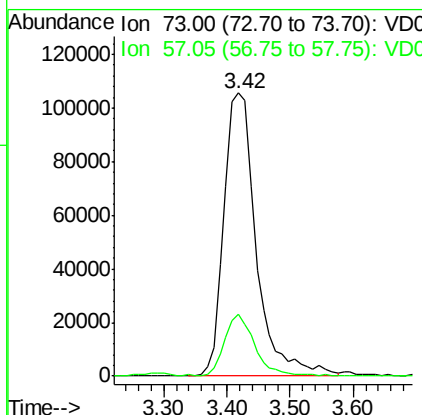
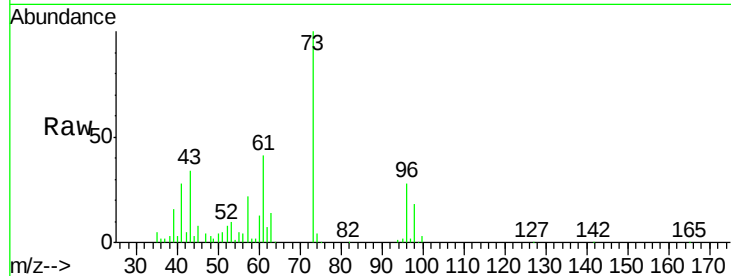


#19

Methyl tert-butyl Ether
 Concen: 44.401 ug/l
 RT: 3.42 min Scan# 324
 Delta R.T. 0.02 min
 Lab File: VD058319.D
 Acq: 23 Jun 2018 3:48

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0622SBS02

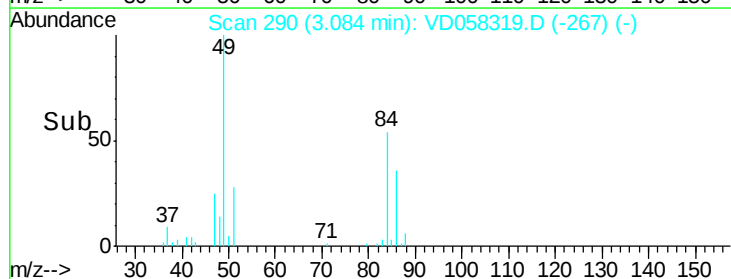
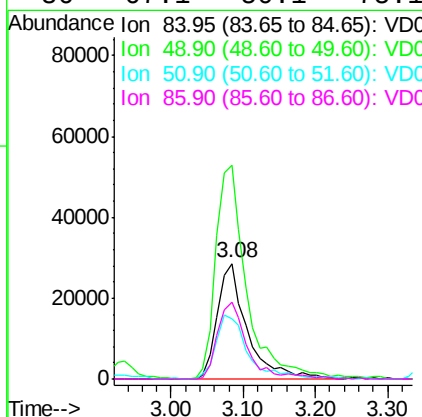
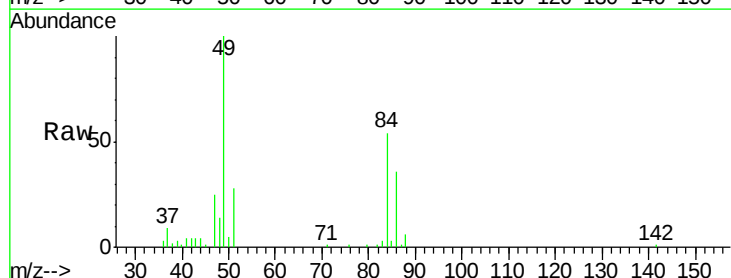
Tot Ion: 73 Resp: 376331
 Ion Ratio Lower Upper
 73 100
 57 21.9 16.6 24.8

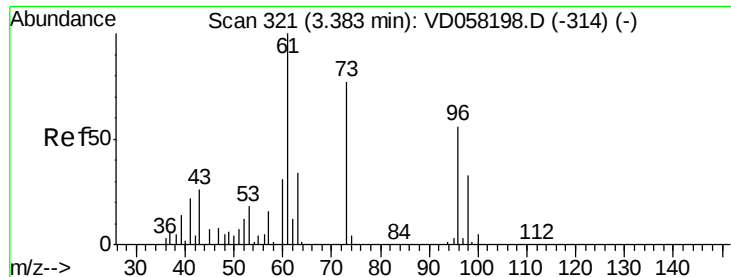


#20

Methylene Chloride
 Concen: 21.557 ug/l
 RT: 3.08 min Scan# 290
 Delta R.T. 0.03 min
 Lab File: VD058319.D
 Acq: 23 Jun 2018 3:48

Tgt Ion: 84 Resp: 81398
 Ion Ratio Lower Upper
 84 100
 49 185.3 145.0 217.6
 51 51.7 42.9 64.3
 86 67.1 50.1 75.1





#21

trans-1,2-Dichloroethene

Concen: 49.271 ug/l

RT: 3.40 min Scan# 322

Delta R.T. 0.02 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

Instrument :

MSVOA_D

ClientSampleId :

VD0622SBSD02

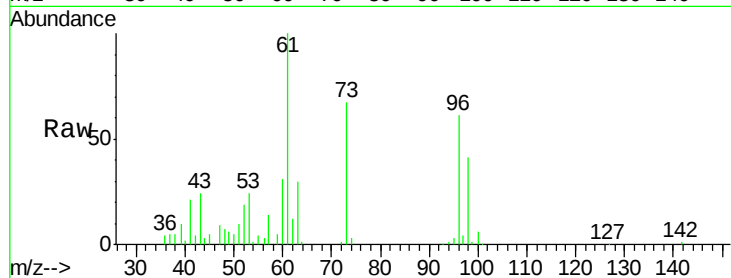
Tot Ion: 96 Resp: 172074

Ion Ratio Lower Upper

96 100

61 163.4 143.8 215.6

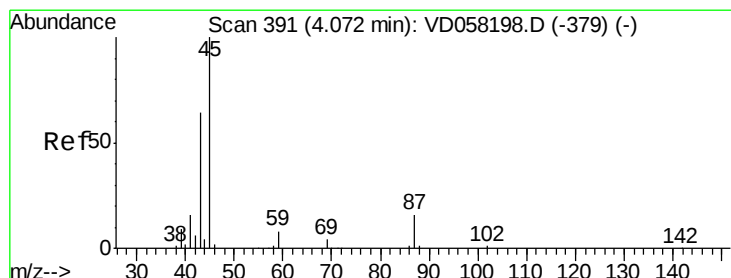
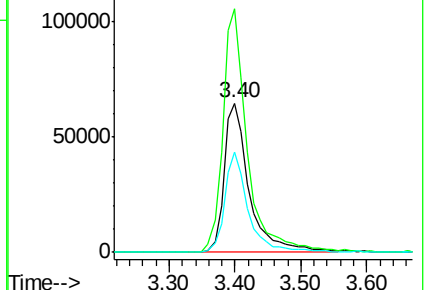
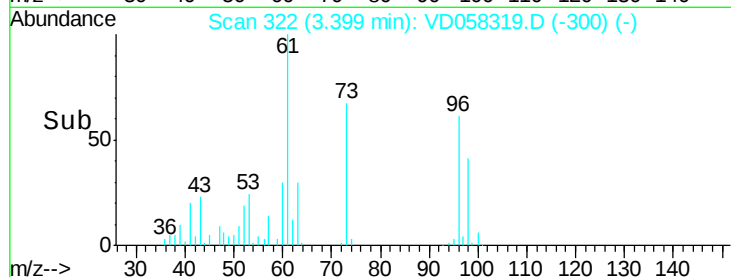
98 67.3 48.0 72.0



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



#22

Diisopropyl ether

Concen: 22.155 ug/l

RT: 4.09 min Scan# 392

Delta R.T. 0.02 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

Tgt Ion: 45 Resp: 654442

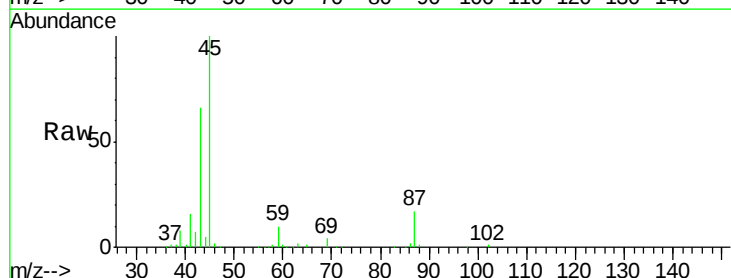
Ion Ratio Lower Upper

45 100

43 66.2 51.4 77.0

87 17.0 13.0 19.4

59 9.7 6.9 10.3

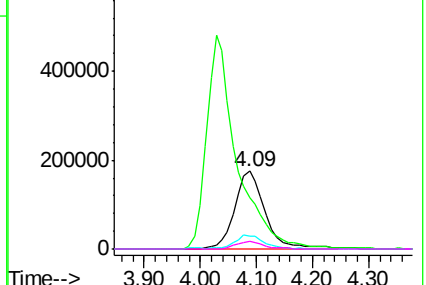
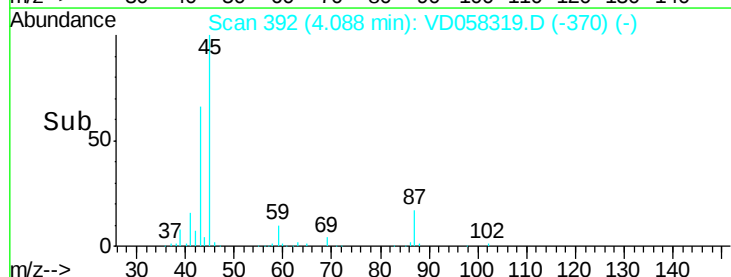


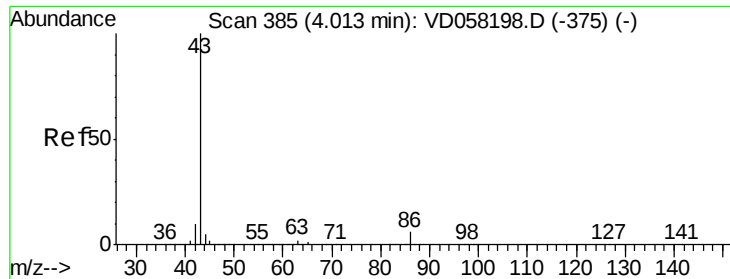
Abundance Ion 45.05 (44.75 to 45.75): VDC

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: 113.462 ug/l

RT: 4.03 min Scan# 386

Delta R.T. 0.02 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

Instrument :

MSVOA_D

ClientSampleID :

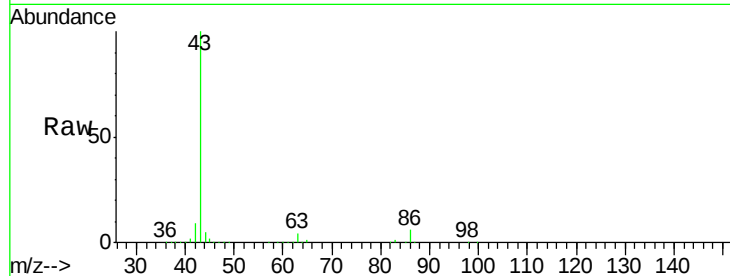
VD0622SBS02

Tot Ion: 43 Resp: 1796641

Ion Ratio Lower Upper

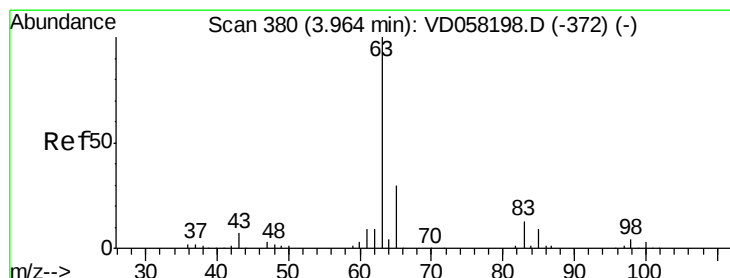
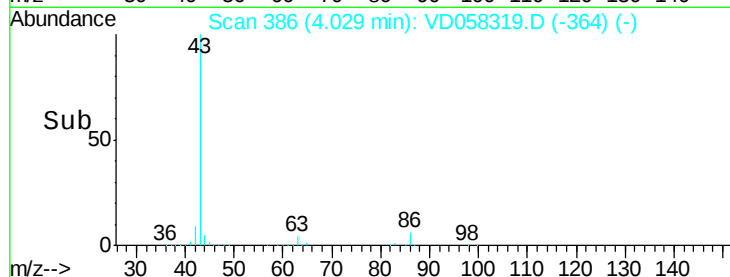
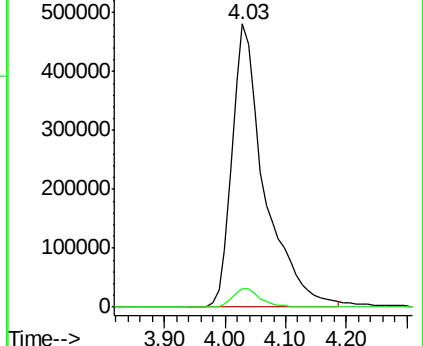
43 100

86 6.3 5.0 7.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 24.527 ug/l

RT: 3.99 min Scan# 382

Delta R.T. 0.03 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

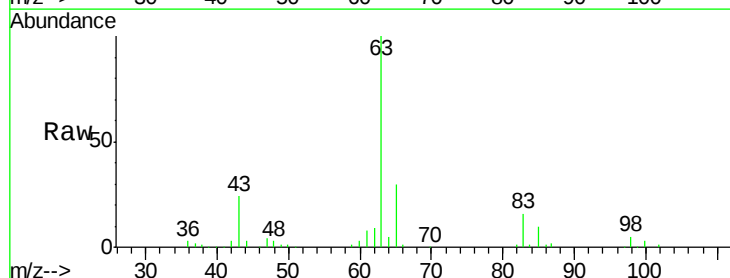
Tgt Ion: 63 Resp: 390317

Ion Ratio Lower Upper

63 100

98 4.9 1.9 5.7

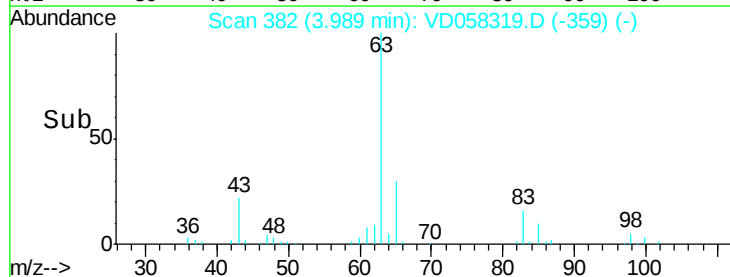
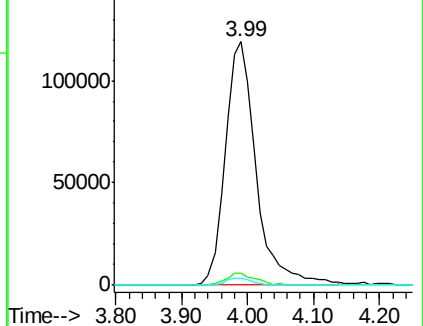
100 2.8 1.3 3.9

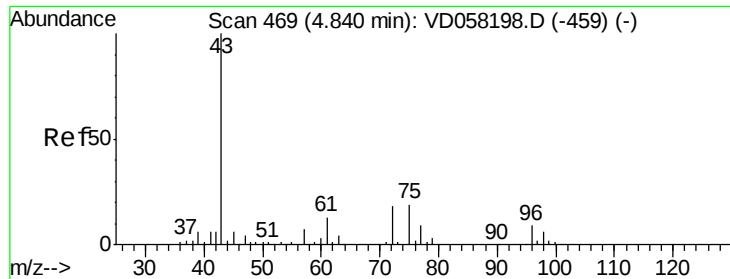


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 111.492 ug/l

RT: 4.86 min Scan# 470

Delta R.T. 0.02 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

Instrument :

MSVOA_D

ClientSampleId :

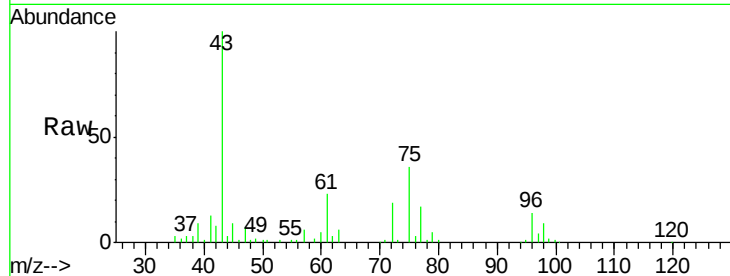
VD0622SBS02

Tot Ion: 43 Resp: 312215

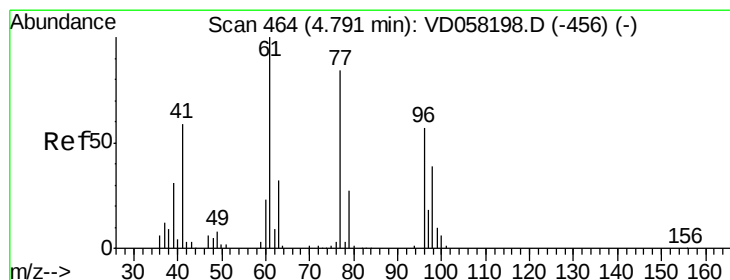
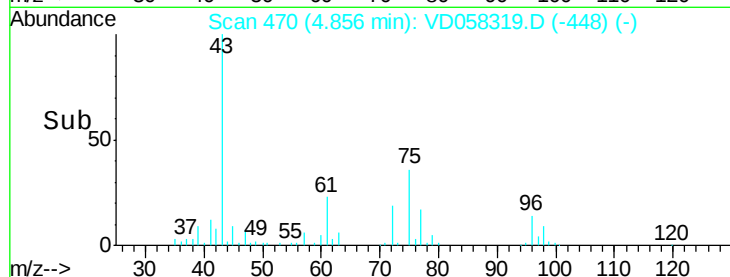
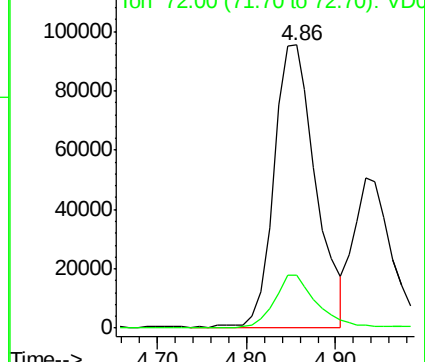
Ion Ratio Lower Upper

43 100

72 18.8 14.1 21.1



Abundance Ion 42.95 (42.65 to 43.65): VDC



#26

2,2-Dichloropropane

Concen: 20.747 ug/l

RT: 4.81 min Scan# 465

Delta R.T. 0.02 min

Lab File: VD058319.D

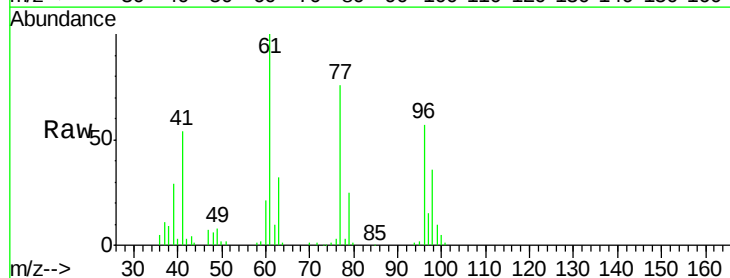
Acq: 23 Jun 2018 3:48

Tgt Ion: 77 Resp: 276456

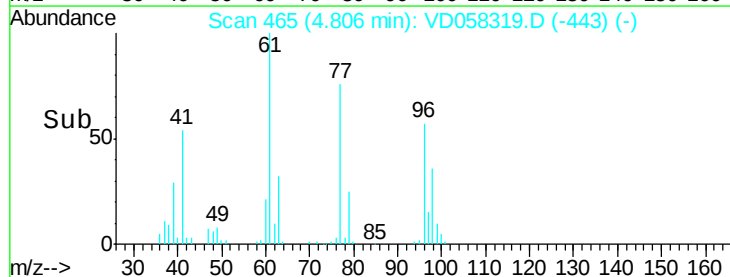
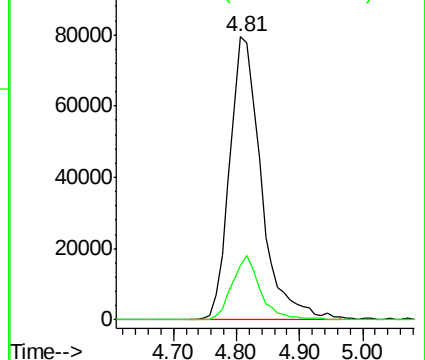
Ion Ratio Lower Upper

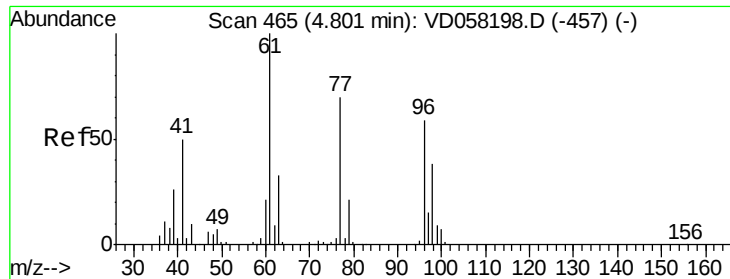
77 100

97 19.4 10.5 31.6



Abundance Ion 76.95 (76.65 to 77.65): VDC



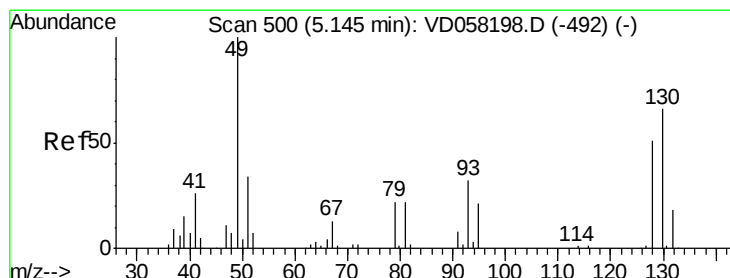
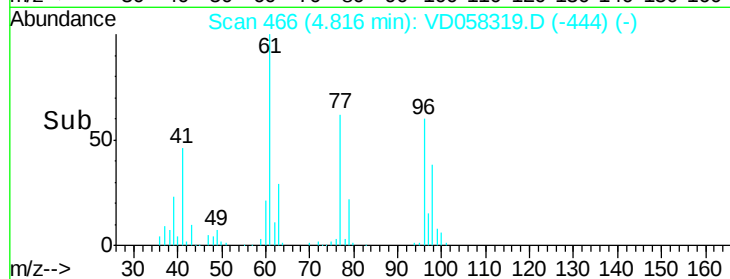
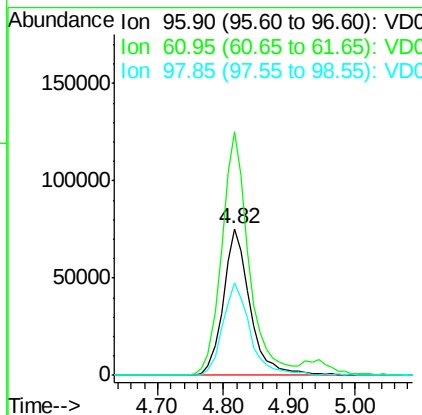
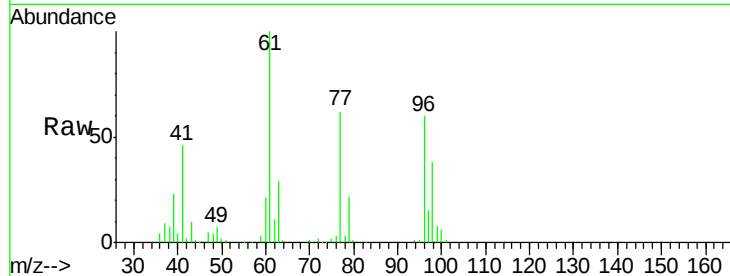


#27

cis-1,2-Dichloroethene
Concen: 24.607 ug/l
RT: 4.82 min Scan# 466
Delta R.T. 0.02 min
Lab File: VD058319.D
Acq: 23 Jun 2018 3:48

Instrument :
MSVOA_D
ClientSampleId :
VD0622SBSD02

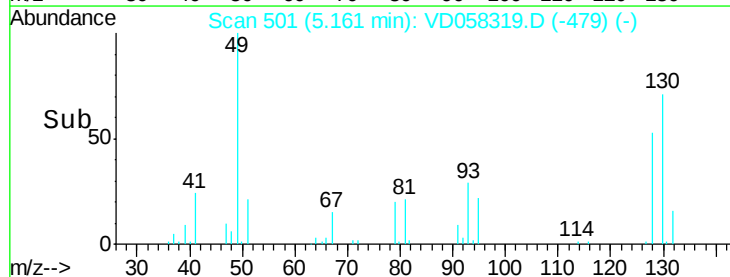
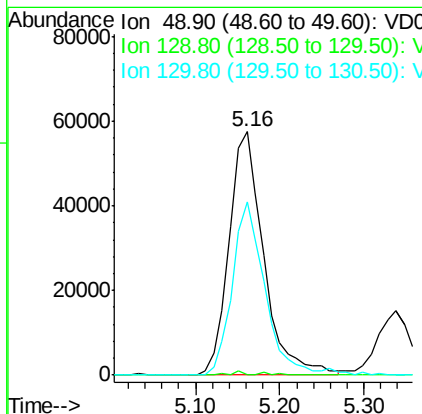
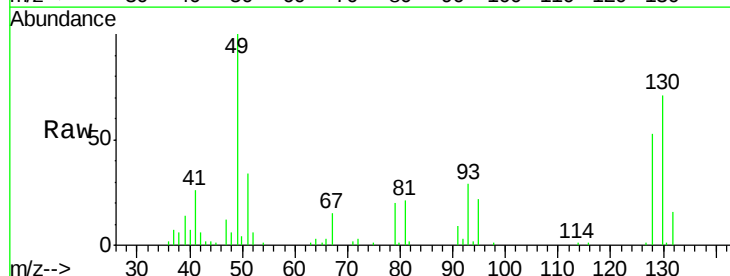
Tot Ion: 96 Resp: 214752
Ion Ratio Lower Upper
96 100
61 166.4 0.0 338.6
98 63.5 0.0 130.2



#28

Bromochloromethane
Concen: 23.077 ug/l
RT: 5.16 min Scan# 501
Delta R.T. 0.02 min
Lab File: VD058319.D
Acq: 23 Jun 2018 3:48

Tgt Ion: 49 Resp: 164631
Ion Ratio Lower Upper
49 100
129 0.0 0.0 0.0
130 71.2 52.6 79.0





#29

Tetrahydrofuran

Concen: 108.254 ug/l

RT: 5.20 min Scan# 505

Delta R.T. 0.02 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

Instrument :

MSVOA_D

ClientSampleId :

VD0622SBS02

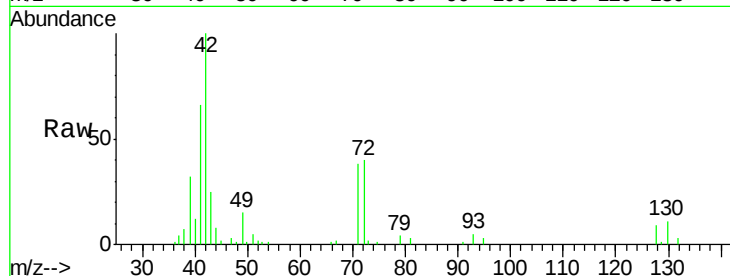
Tot Ion: 42 Resp: 161359

Ion Ratio Lower Upper

42 100

72 39.2 30.2 45.2

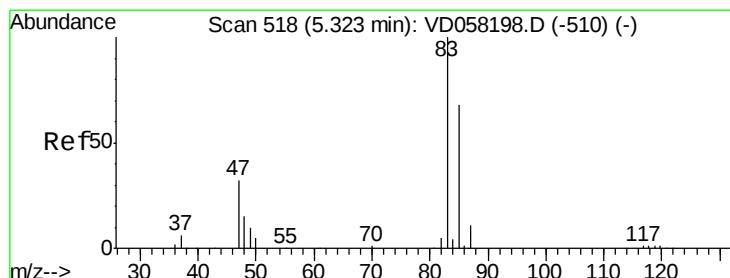
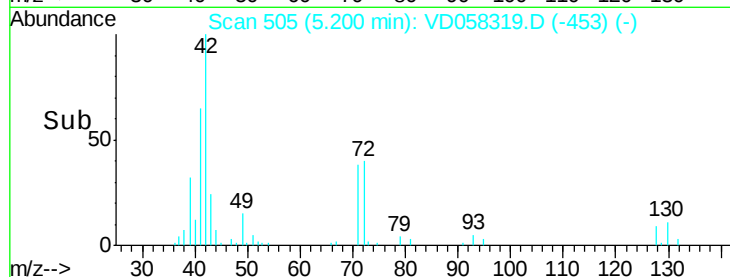
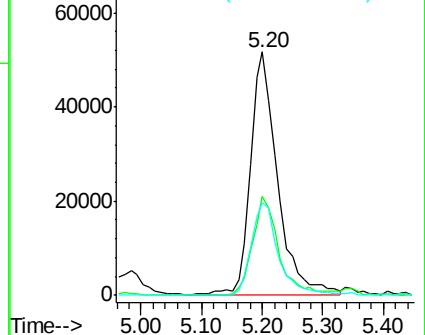
71 38.5 30.1 45.1



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: 23.499 ug/l

RT: 5.34 min Scan# 519

Delta R.T. 0.02 min

Lab File: VD058319.D

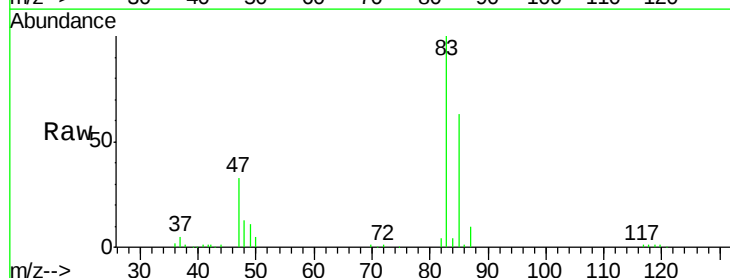
Acq: 23 Jun 2018 3:48

Tgt Ion: 83 Resp: 394795

Ion Ratio Lower Upper

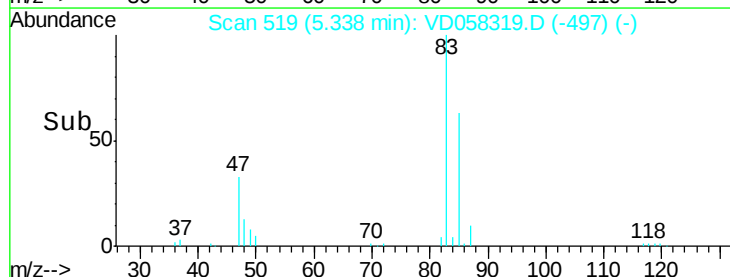
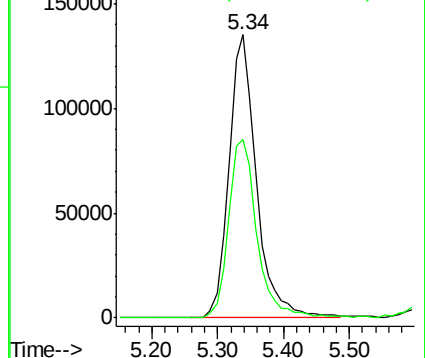
83 100

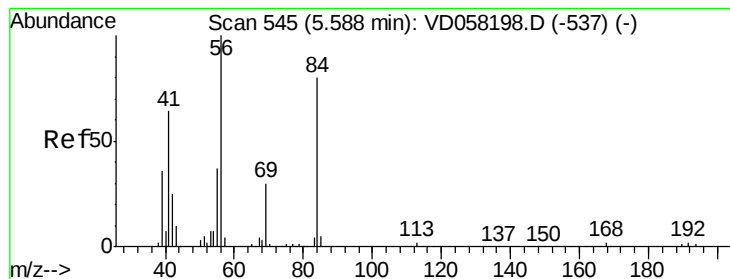
85 63.2 54.8 82.2



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC





#31

Cyclohexane

Concen: 23.280 ug/l

RT: 5.60 min Scan# 546

Delta R.T. 0.02 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

Instrument :

MSVOA_D

ClientSampleId :

VD0622SBS02

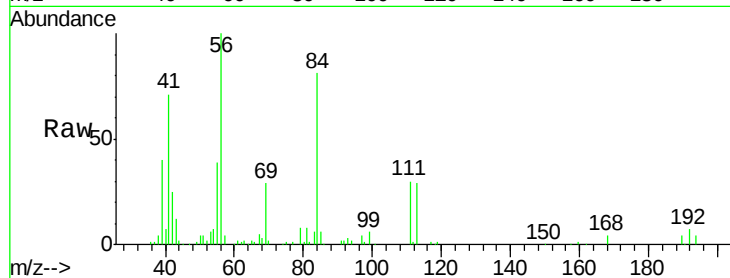
Tot Ion: 56 Resp: 301263

Ion Ratio Lower Upper

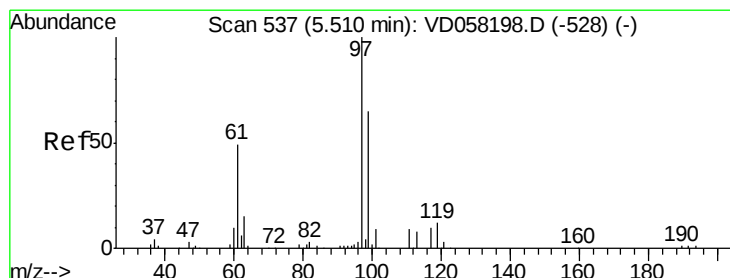
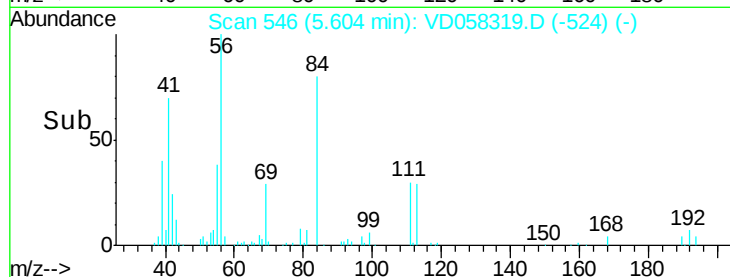
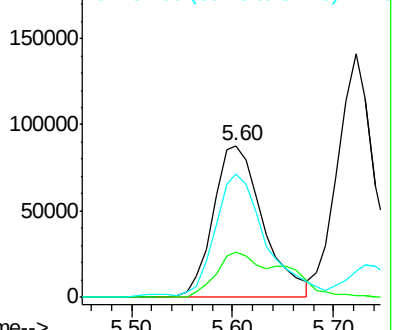
56 100

69 29.5 23.6 35.4

84 81.1 65.2 97.8



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: 23.419 ug/l

RT: 5.53 min Scan# 538

Delta R.T. 0.02 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

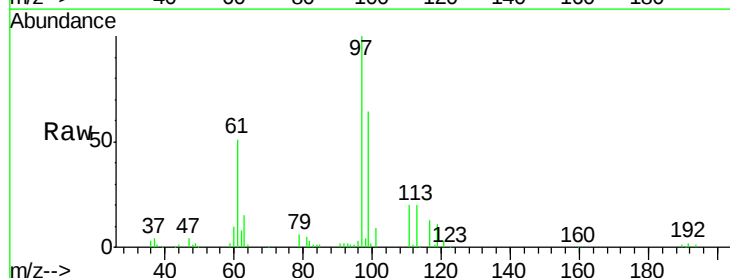
Tgt Ion: 97 Resp: 325088

Ion Ratio Lower Upper

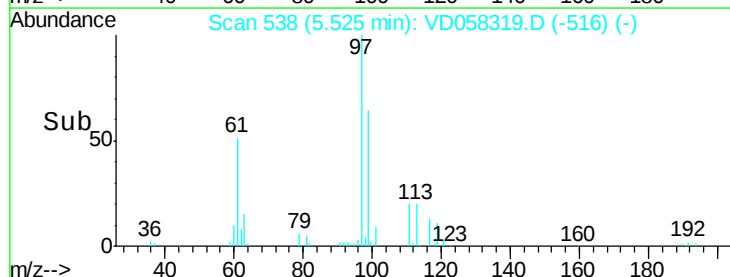
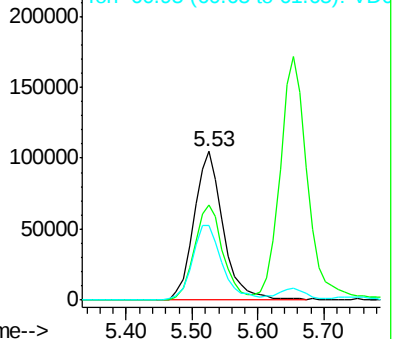
97 100

99 64.0 52.2 78.4

61 50.6 39.0 58.4



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

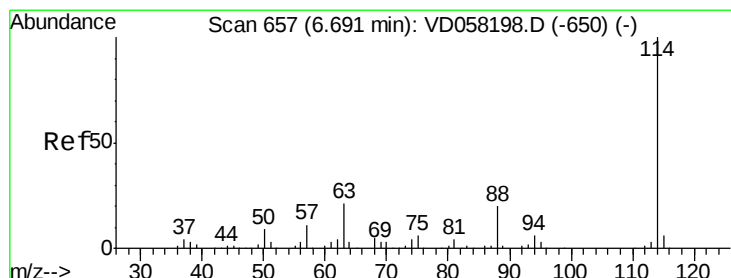
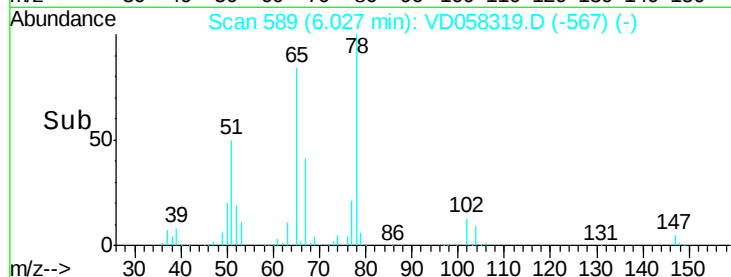
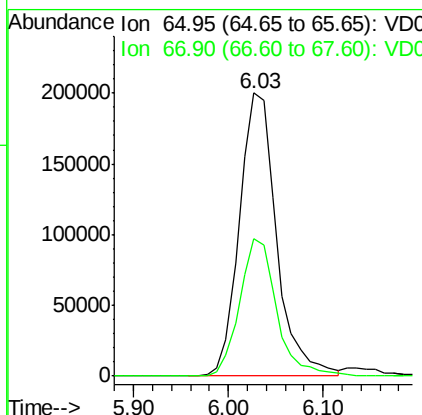
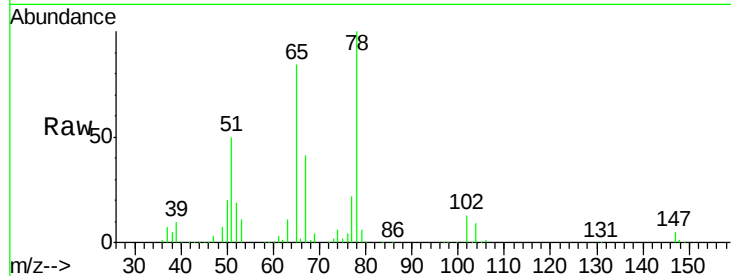




#33
 1,2-Dichloroethane-d4
 Concen: 23.419 ug/l
 RT: 6.03 min Scan# 589
 Delta R.T. 0.02 min
 Lab File: VD058319.D
 Acq: 23 Jun 2018 3:48

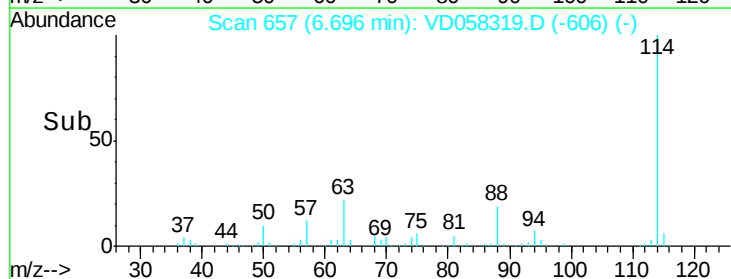
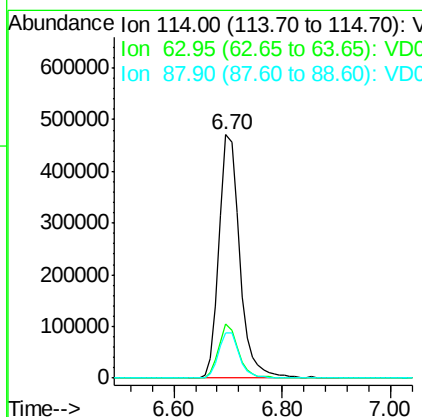
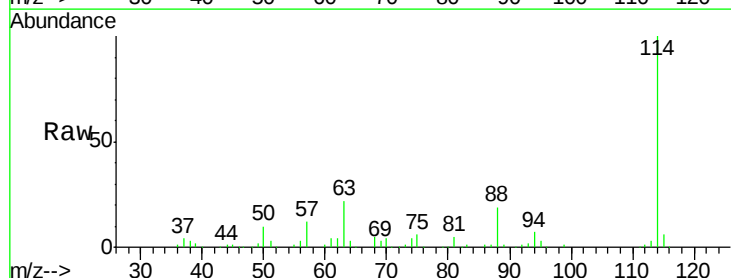
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0622SBSD02

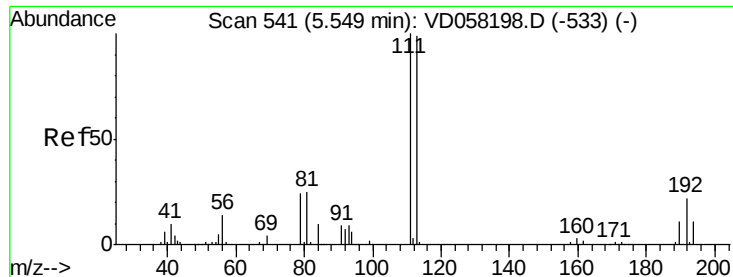
Tot Ion: 65 Resp: 544795
 Ion Ratio Lower Upper
 65 100
 67 48.5 0.0 97.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.70 min Scan# 657
 Delta R.T. 0.01 min
 Lab File: VD058319.D
 Acq: 23 Jun 2018 3:48

Tgt Ion: 114 Resp: 1247194
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 42.6
 88 18.5 0.0 40.6

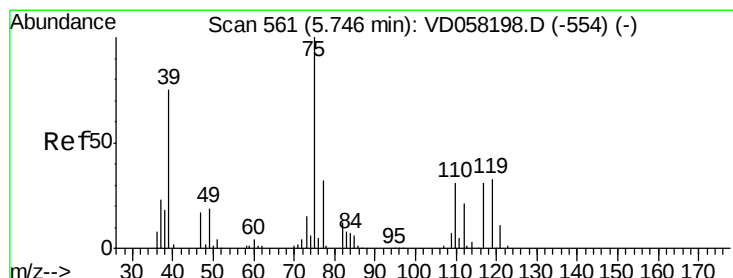
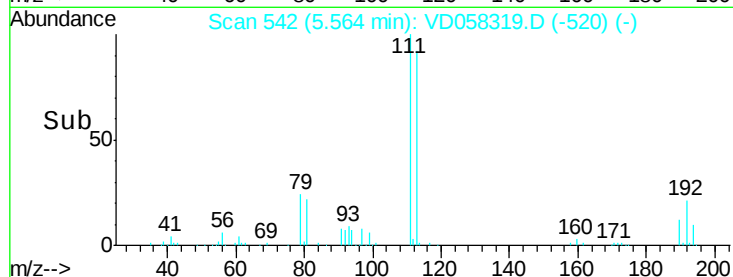
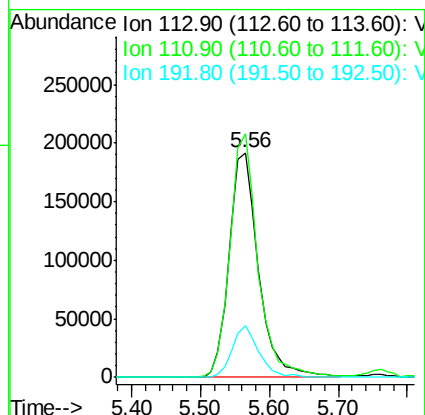
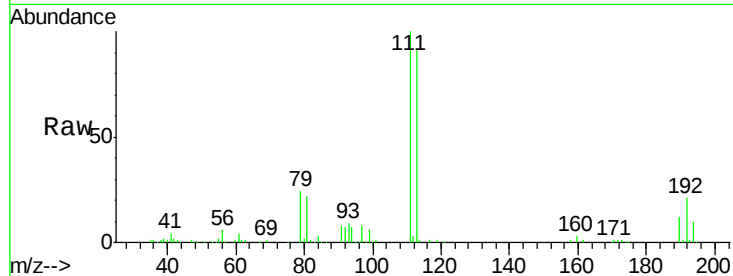




#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 5.56 min Scan# 542
Delta R.T. 0.02 min
Lab File: VD058319.D
Acq: 23 Jun 2018 3:48

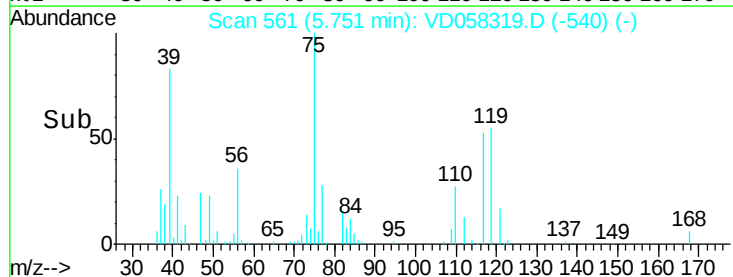
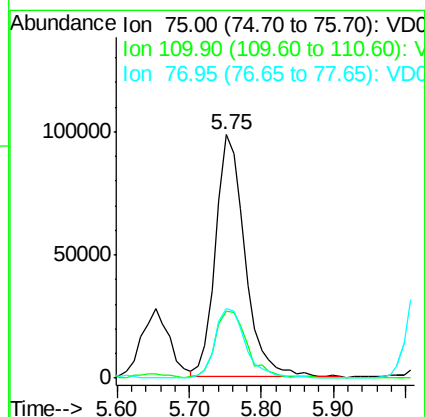
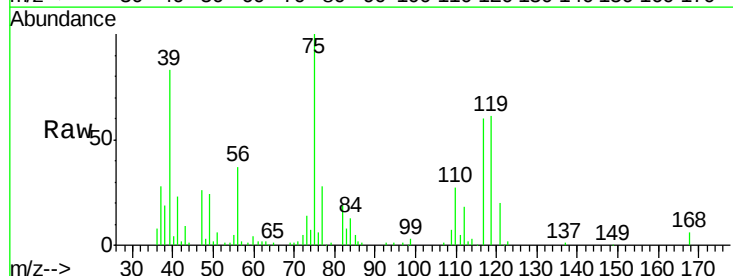
Instrument :
MSVOA_D
ClientSampleId :
VD0622SBSD02

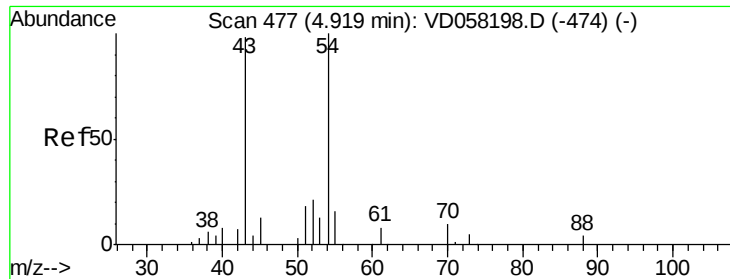
Tot Ion:113 Resp: 566534
Ion Ratio Lower Upper
113 100
111 108.2 80.6 121.0
192 23.2 17.8 26.6



#36
1,1-Dichloropropene
Concen: 22.342 ug/l
RT: 5.75 min Scan# 561
Delta R.T. 0.01 min
Lab File: VD058319.D
Acq: 23 Jun 2018 3:48

Tgt Ion: 75 Resp: 275654
Ion Ratio Lower Upper
75 100
110 27.4 15.4 46.4
77 28.4 25.4 38.2

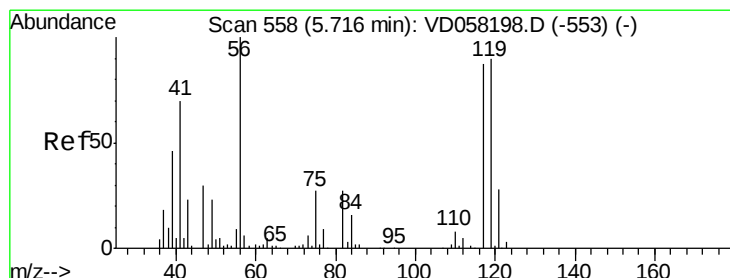
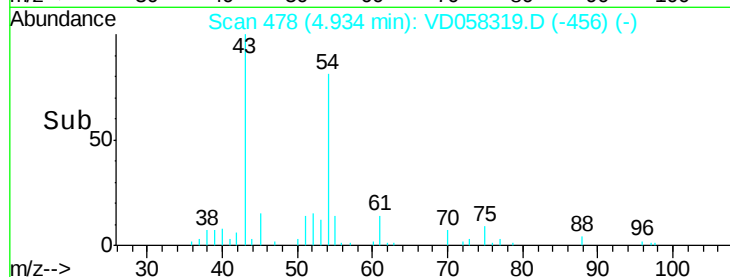
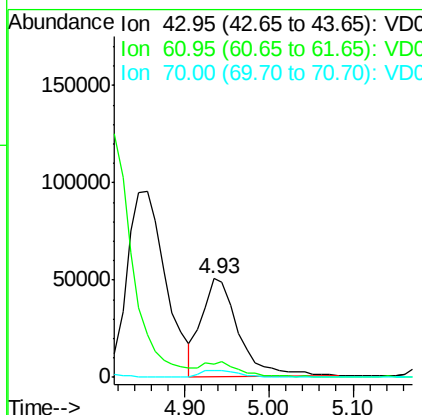
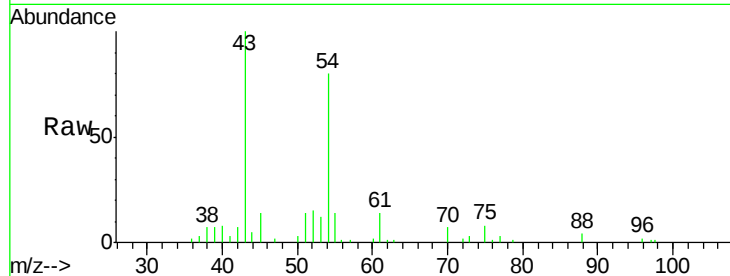




#37
Ethyl Acetate
Concen: 21.609 ug/l
RT: 4.93 min Scan# 478
Delta R.T. 0.02 min
Lab File: VD058319.D
Acq: 23 Jun 2018 3:48

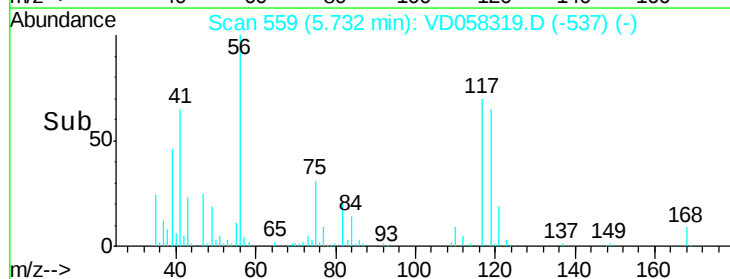
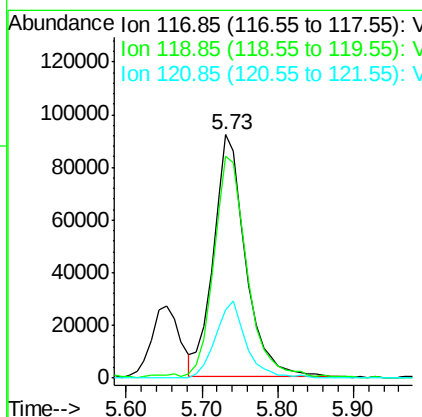
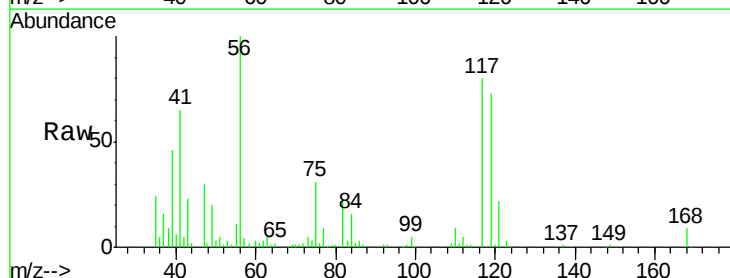
Instrument :
MSVOA_D
ClientSampleId :
VD0622SBS02

Tot Ion: 43 Resp: 151903
Ion Ratio Lower Upper
43 100
61 13.7 10.3 15.5
70 7.4 5.7 8.5



#38
Carbon Tetrachloride
Concen: 22.144 ug/l
RT: 5.73 min Scan# 559
Delta R.T. 0.02 min
Lab File: VD058319.D
Acq: 23 Jun 2018 3:48

Tgt Ion: 117 Resp: 271465
Ion Ratio Lower Upper
117 100
119 91.4 78.8 118.2
121 27.9 25.0 37.6





#39

Methvlcvclohexane

Concen: 21.682 ug/l

RT: 7.29 min Scan# 717

Delta R.T. 0.01 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

Instrument :

MSVOA_D

ClientSampleId :

VD0622SBS02

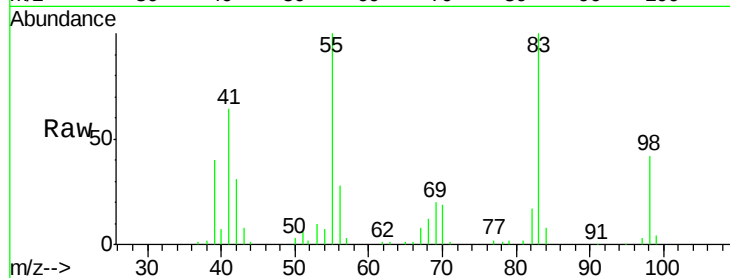
Tot Ion: 83 Resp: 260566

Ion Ratio Lower Upper

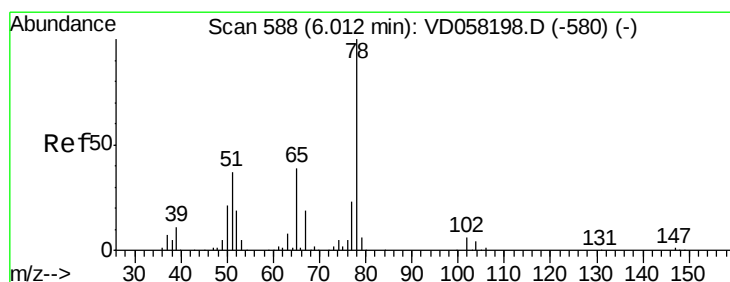
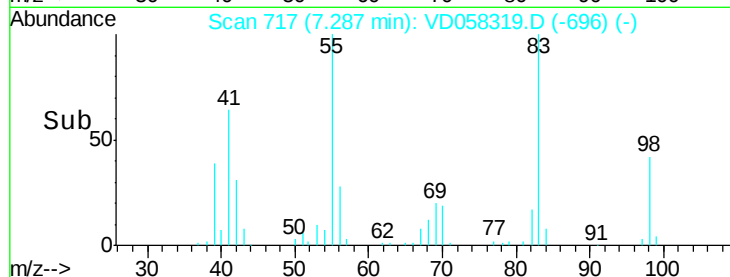
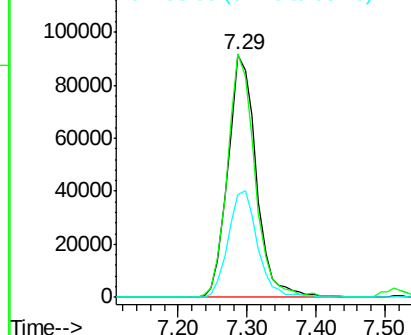
83 100

55 100.3 77.4 116.2

98 42.3 35.9 53.9



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: 22.018 ug/l

RT: 6.03 min Scan# 589

Delta R.T. 0.02 min

Lab File: VD058319.D

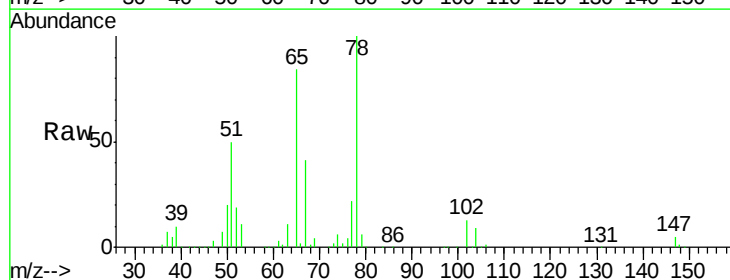
Acq: 23 Jun 2018 3:48

Tgt Ion: 78 Resp: 647104

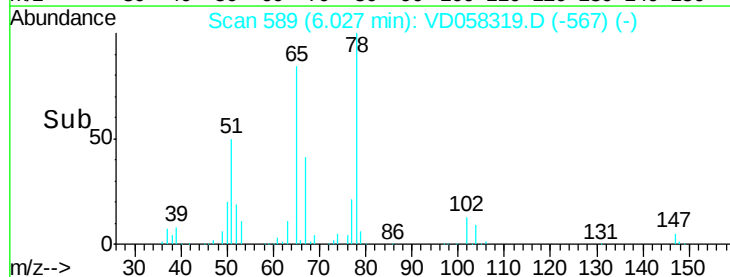
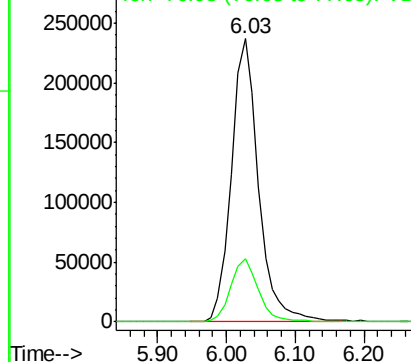
Ion Ratio Lower Upper

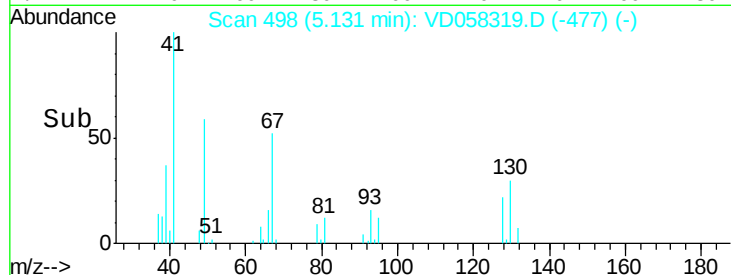
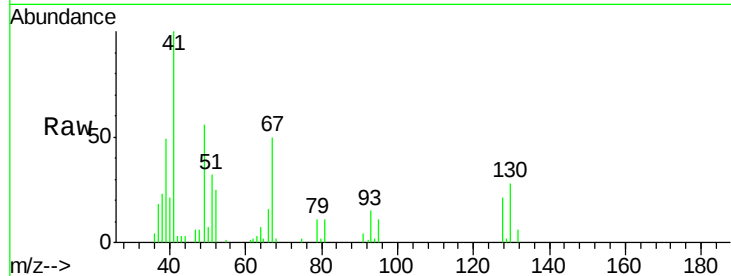
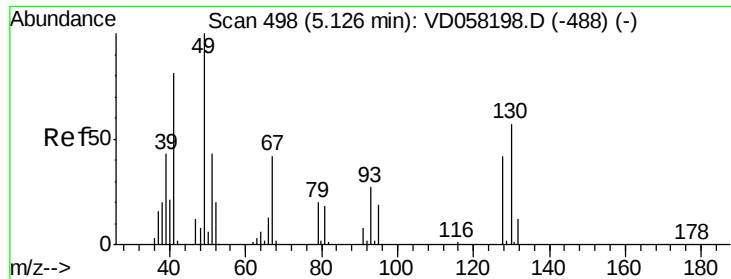
78 100

77 22.4 18.5 27.7



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

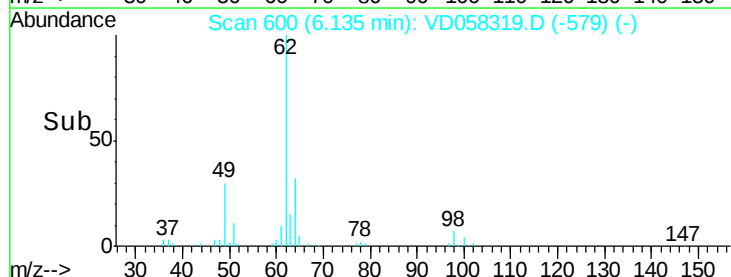
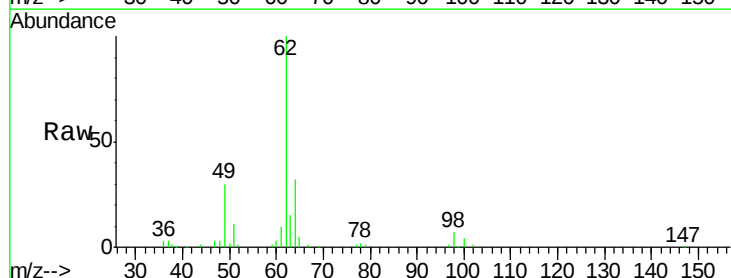
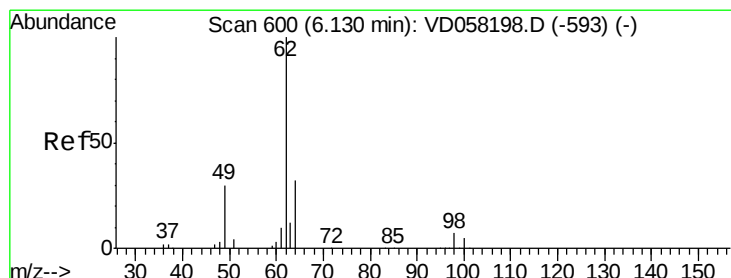
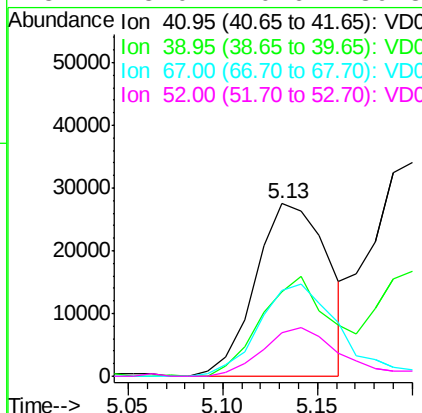




#41
Methacrylonitrile
Concen: 21.793 ug/l
RT: 5.13 min Scan# 498
Delta R.T. 0.01 min
Lab File: VD058319.D
Acq: 23 Jun 2018 3:48

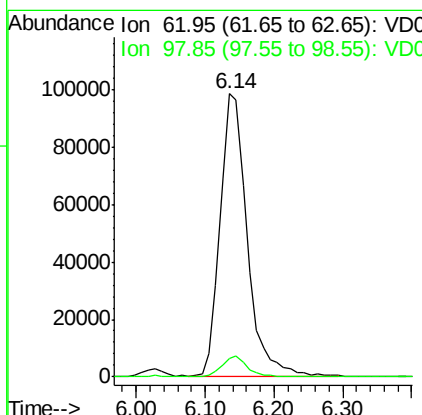
Instrument :
MSVOA_D
ClientSampleId :
VD0622SBS02

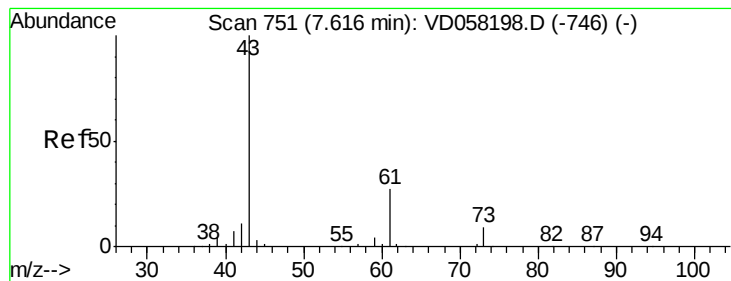
Tot Ion: 41 Resp: 73977
Ion Ratio Lower Upper
41 100
39 49.1 43.4 65.2
67 49.5 41.7 62.5
52 25.0 20.6 30.8



#42
1,2-Dichloroethane
Concen: 22.602 ug/l
RT: 6.14 min Scan# 600
Delta R.T. 0.01 min
Lab File: VD058319.D
Acq: 23 Jun 2018 3:48

Tgt Ion: 62 Resp: 267847
Ion Ratio Lower Upper
62 100
98 6.6 0.0 13.2



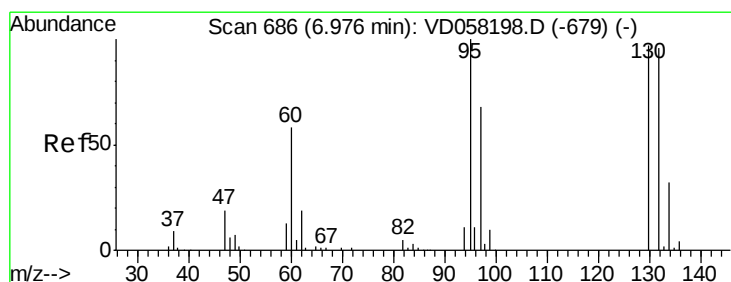
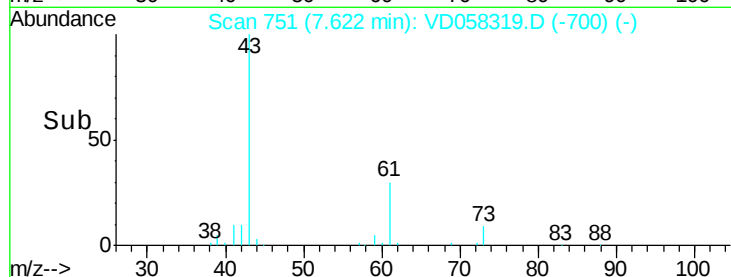
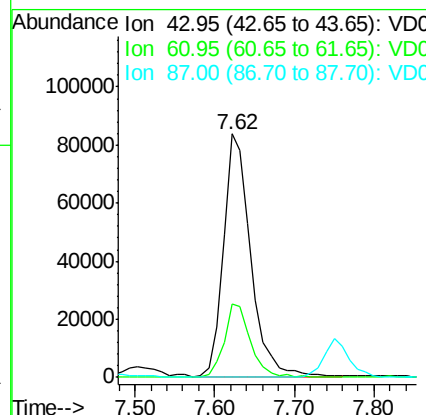
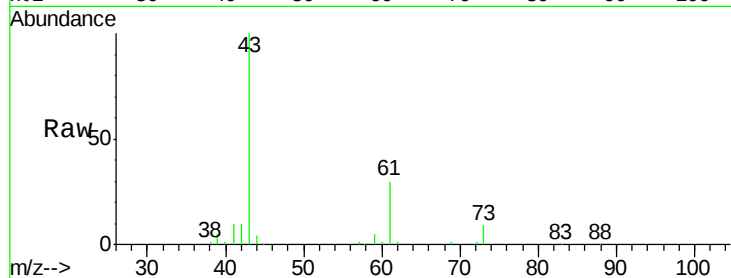


#43

Isopropyl Acetate
 Concen: 21.369 ug/l
 RT: 7.62 min Scan# 751
 Delta R.T. 0.01 min
 Lab File: VD058319.D
 Acq: 23 Jun 2018 3:48

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0622SBS02

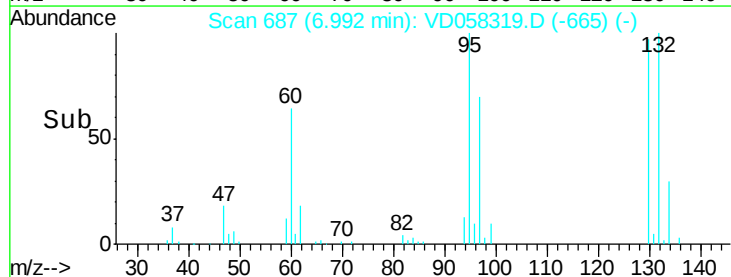
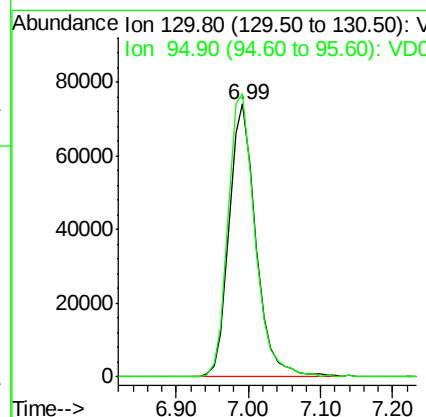
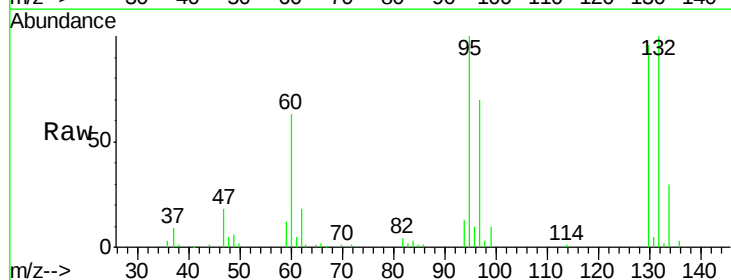
Tot Ion: 43 Resp: 200275
 Ion Ratio Lower Upper
 43 100
 61 29.9 21.8 32.6
 87 0.0 0.3 0.5#

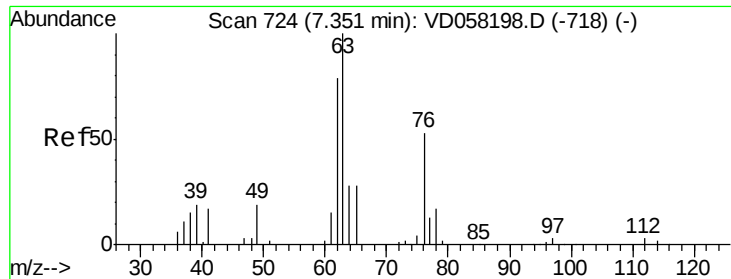


#44

Trichloroethene
 Concen: 21.689 ug/l
 RT: 6.99 min Scan# 687
 Delta R.T. 0.02 min
 Lab File: VD058319.D
 Acq: 23 Jun 2018 3:48

Tgt Ion: 130 Resp: 191416
 Ion Ratio Lower Upper
 130 100
 95 103.7 0.0 205.6





#45

1,2-Dichloropropane

Concen: 22.939 ug/l

RT: 7.36 min Scan# 724

Delta R.T. 0.01 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

Instrument :

MSVOA_D

ClientSampleId :

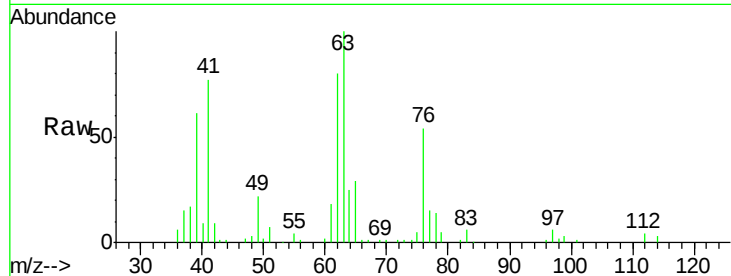
VD0622SBSD02

Tot Ion: 63 Resp: 181566

Ion Ratio Lower Upper

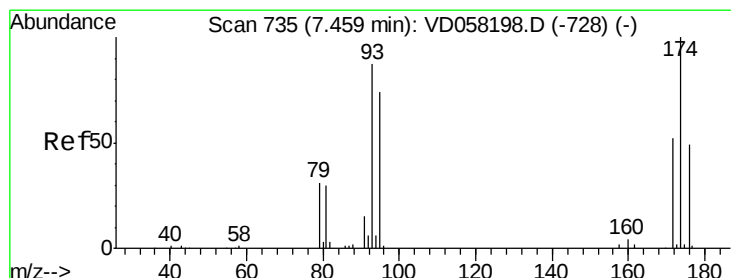
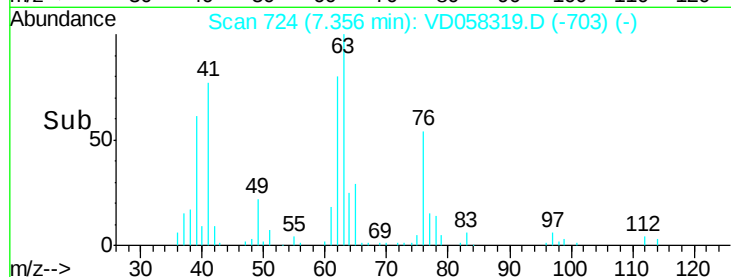
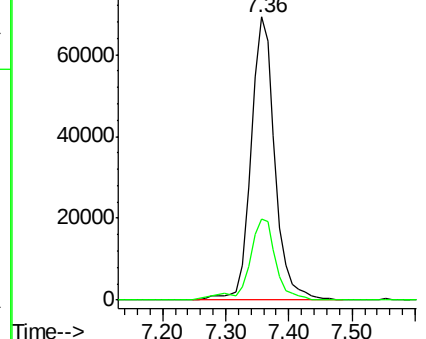
63 100

65 28.9 24.0 36.0



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 22.526 ug/l

RT: 7.47 min Scan# 736

Delta R.T. 0.02 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

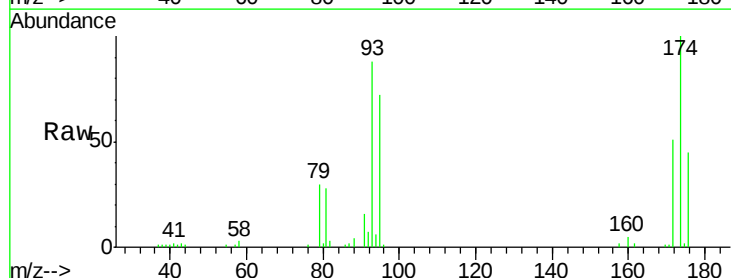
Tgt Ion: 93 Resp: 121715

Ion Ratio Lower Upper

93 100

95 82.1 67.8 101.6

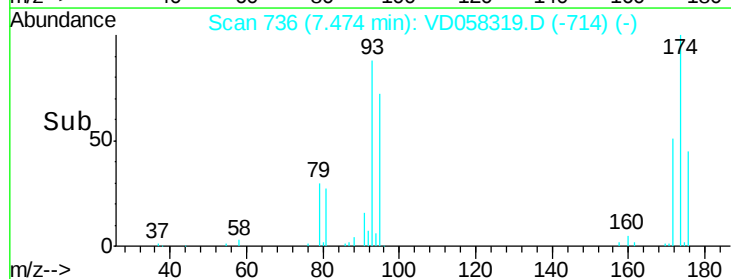
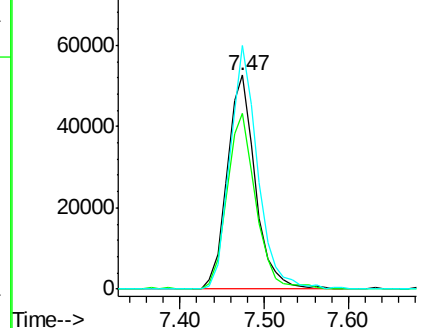
174 113.8 92.2 138.2

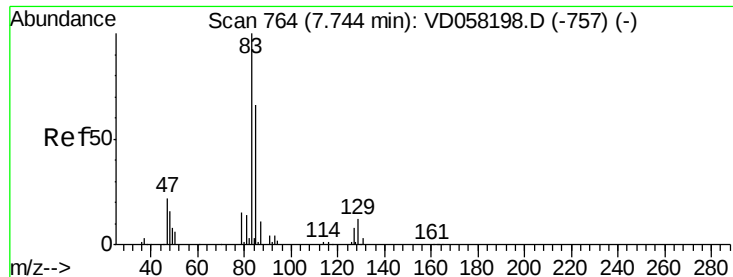


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): VDC





#47

Bromodichloromethane

Concen: 22.818 ug/l

RT: 7.75 min Scan# 764

Delta R.T. 0.01 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

Instrument :

MSVOA_D

ClientSampleId :

VD0622SBSD02

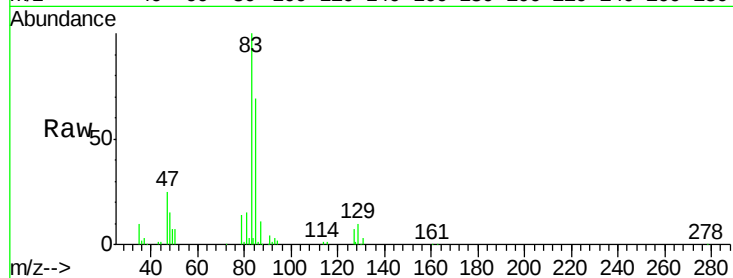
Tot Ion: 83 Resp: 281158

Ion Ratio Lower Upper

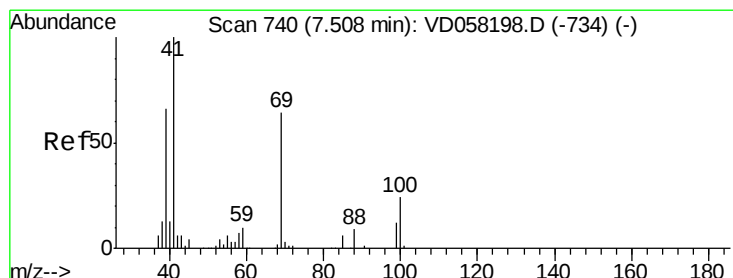
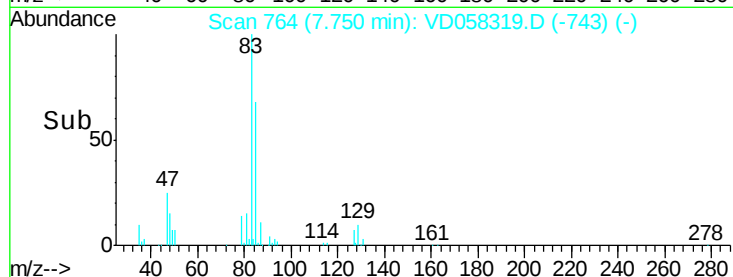
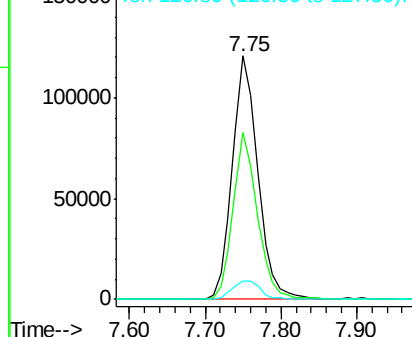
83 100

85 68.6 52.6 78.8

127 7.4 6.2 9.4



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: 20.744 ug/l

RT: 7.51 min Scan# 740

Delta R.T. 0.01 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

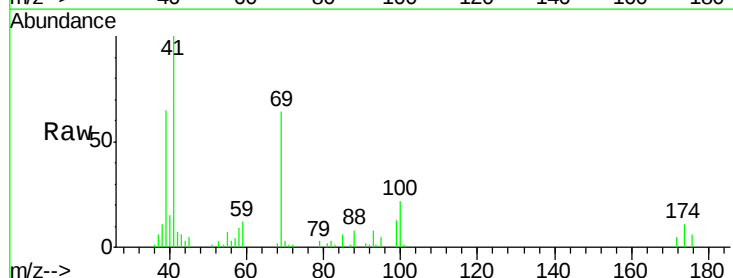
Tgt Ion: 41 Resp: 118159

Ion Ratio Lower Upper

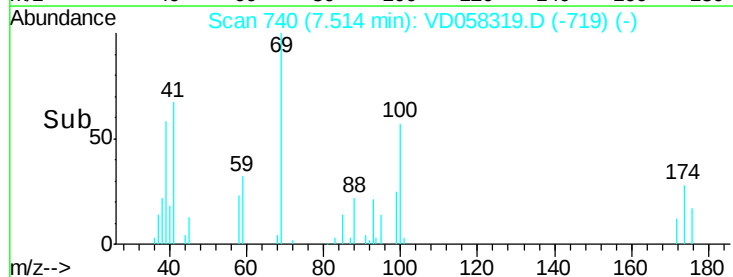
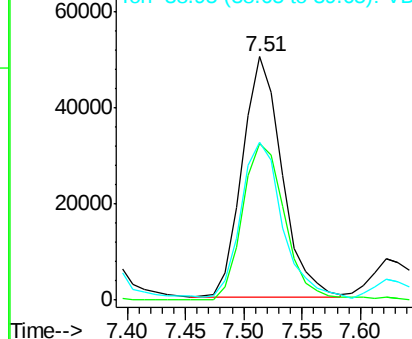
41 100

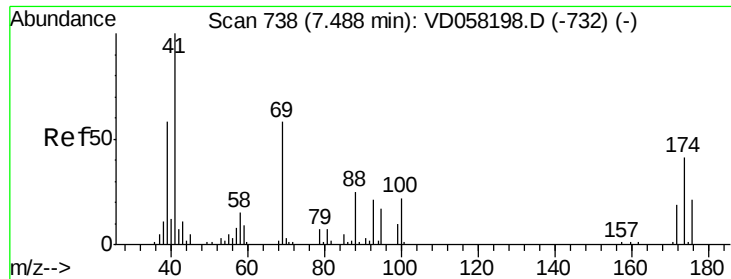
69 64.2 50.7 76.1

39 64.9 52.6 78.8



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

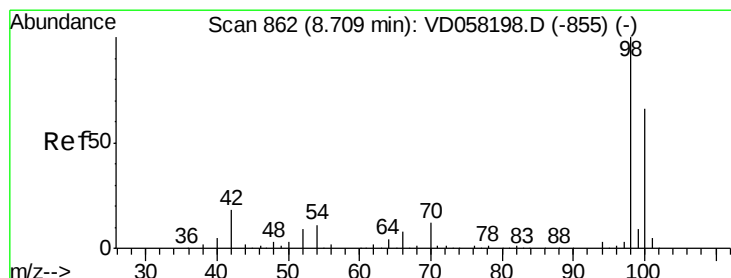
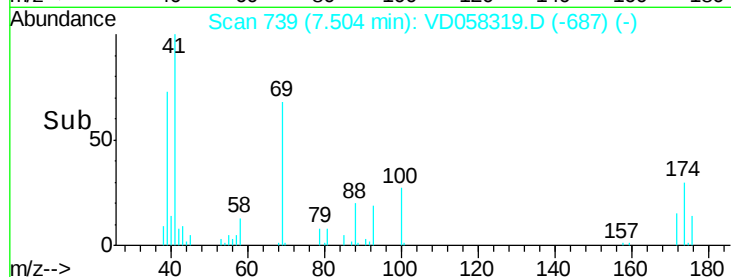
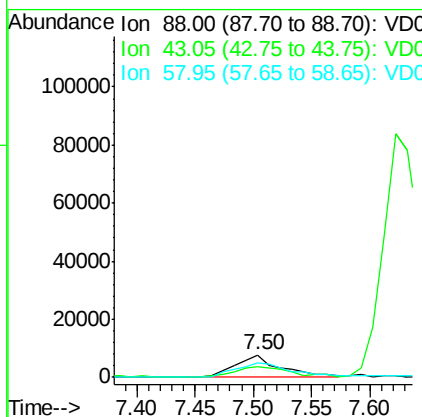
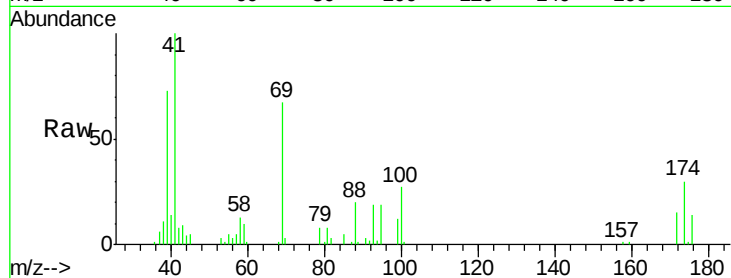




#49
1,4-Dioxane
Concen: 410.952 ug/l
RT: 7.50 min Scan# 739
Delta R.T. 0.02 min
Lab File: VD058319.D
Acq: 23 Jun 2018 3:48

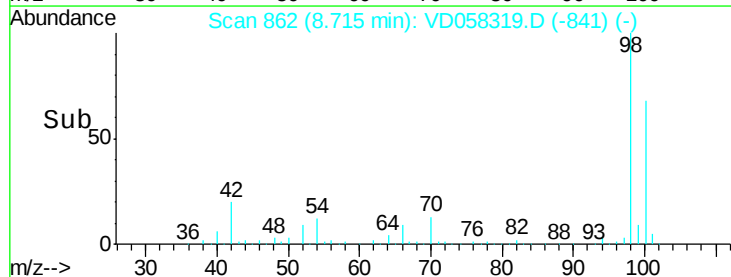
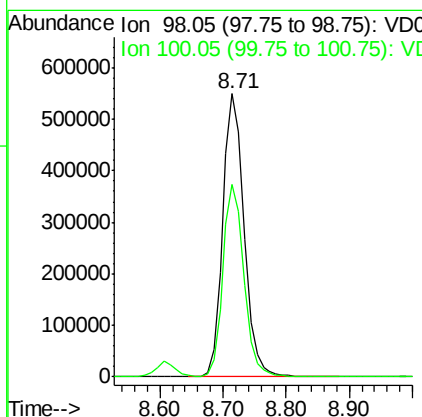
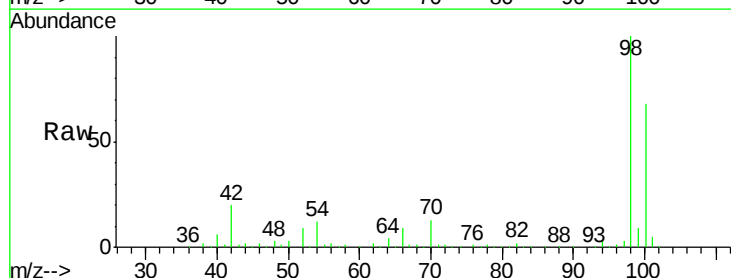
Instrument :
MSVOA_D
ClientSampleId :
VD0622SBSD02

Tot Ion: 88 Resp: 21130
Ion Ratio Lower Upper
88 100
43 46.2 34.2 51.2
58 65.0 47.9 71.9



#50
Toluene-d8
Concen: 410.952 ug/l
RT: 8.71 min Scan# 862
Delta R.T. 0.01 min
Lab File: VD058319.D
Acq: 23 Jun 2018 3:48

Tgt Ion: 98 Resp: 1291730
Ion Ratio Lower Upper
98 100
100 67.8 53.6 80.4





#51

4-Methyl-2-Pentanone

Concen: 109.422 ug/l

RT: 8.61 min Scan# 851

Delta R.T. 0.01 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

Instrument :

MSVOA_D

ClientSampleId :

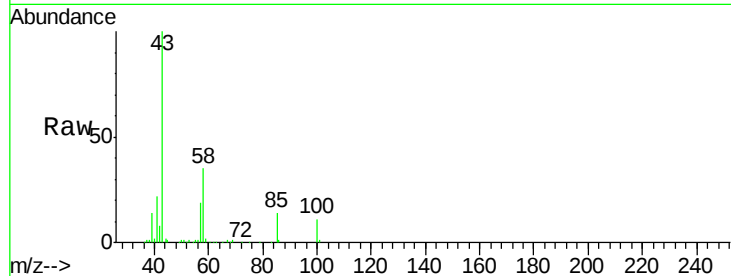
VD0622SBSD02

Tot Ion: 43 Resp: 668911

Ion Ratio Lower Upper

43 100

58 35.1 26.7 40.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

8.61

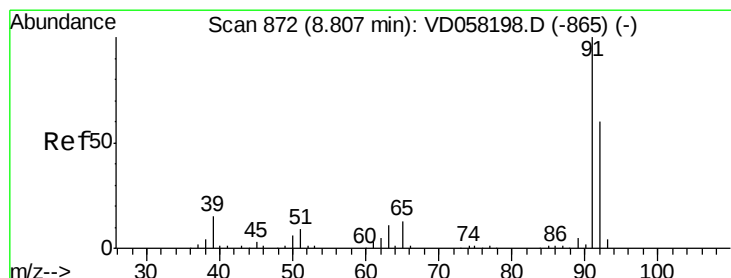
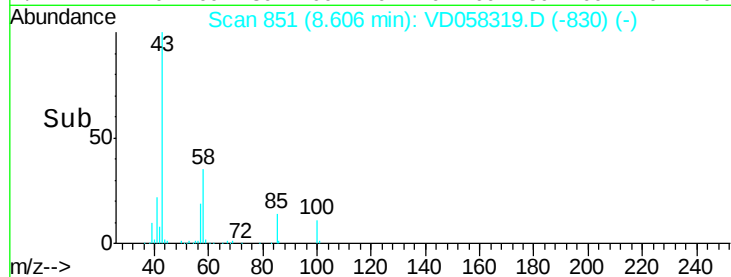
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 22.588 ug/l

RT: 8.81 min Scan# 872

Delta R.T. 0.01 min

Lab File: VD058319.D

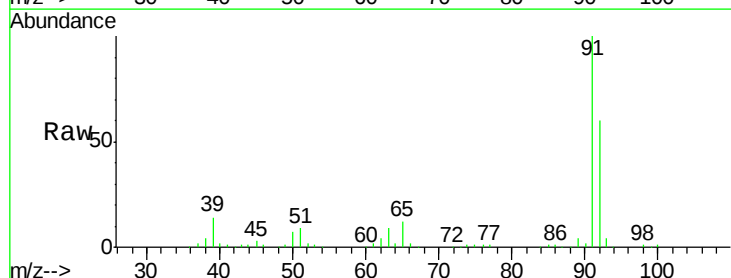
Acq: 23 Jun 2018 3:48

Tgt Ion: 92 Resp: 378013

Ion Ratio Lower Upper

92 100

91 167.4 133.2 199.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

8.81

300000

250000

200000

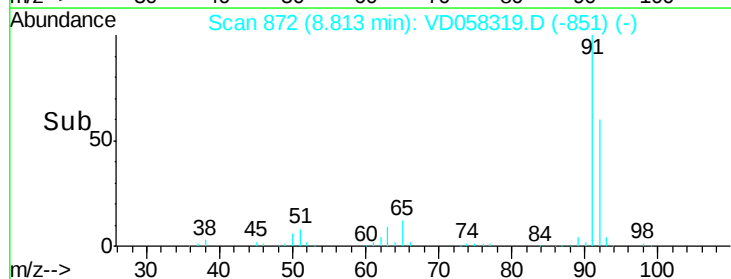
150000

100000

50000

0

Time-->

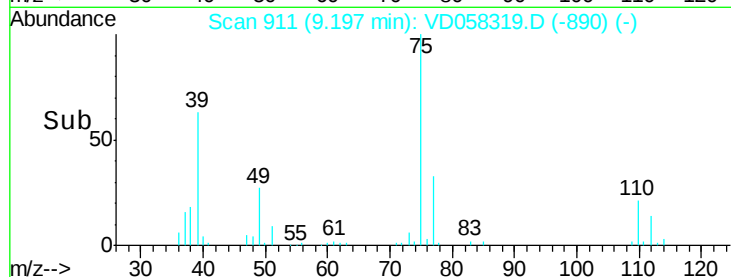
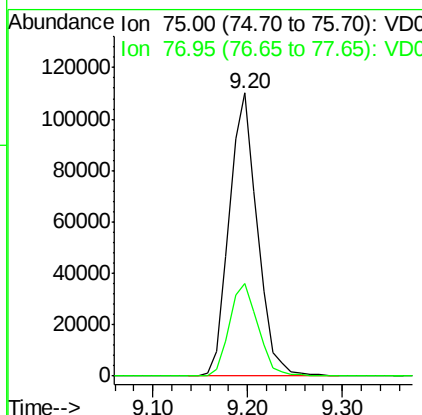
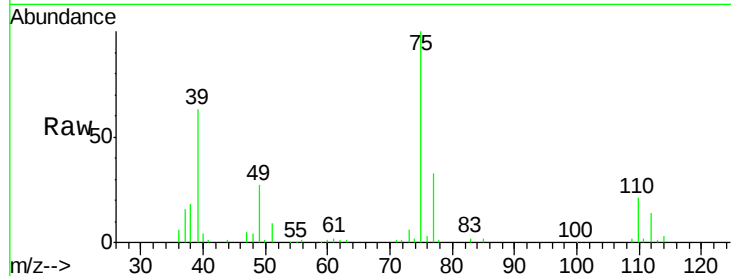




#53
 t-1,3-Dichloropropene
 Concen: 21.172 ug/l
 RT: 9.20 min Scan# 911
 Delta R.T. 0.01 min
 Lab File: VD058319.D
 Acq: 23 Jun 2018 3:48

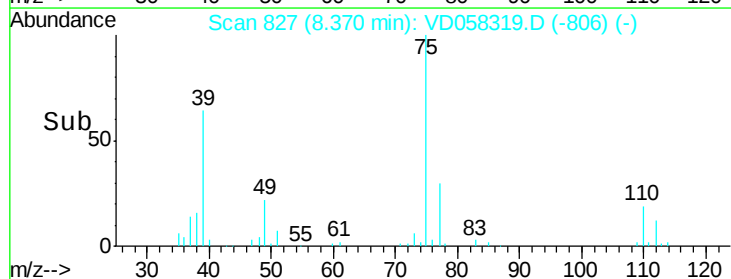
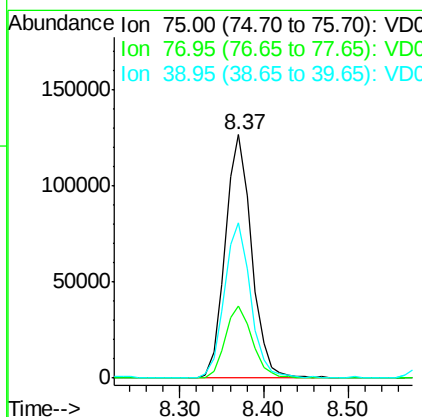
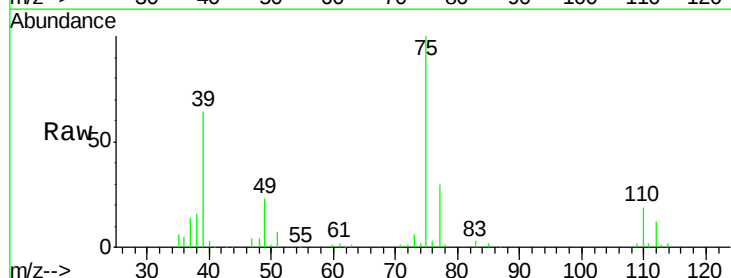
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0622SBSD02

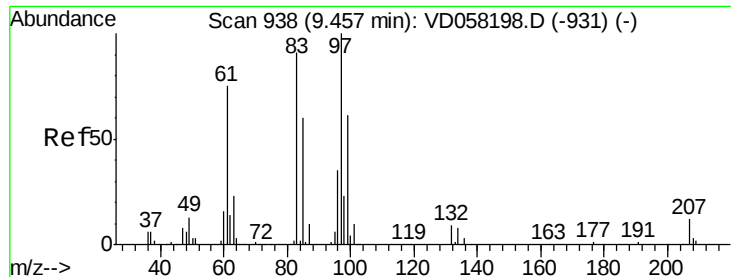
Tot Ion: 75 Resp: 226807
 Ion Ratio Lower Upper
 75 100
 77 32.6 25.8 38.8



#54
 cis-1,3-Dichloropropene
 Concen: 22.003 ug/l
 RT: 8.37 min Scan# 827
 Delta R.T. 0.01 min
 Lab File: VD058319.D
 Acq: 23 Jun 2018 3:48

Tgt Ion: 75 Resp: 276343
 Ion Ratio Lower Upper
 75 100
 77 29.6 26.5 39.7
 39 64.0 52.9 79.3





#55

1,1,2-Trichloroethane

Concen: 22.528 ug/l

RT: 9.46 min Scan# 938

Delta R.T. 0.01 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

Instrument :

MSVOA_D

ClientSampleId :

VD0622SBS02

Tot Ion: 97 Resp: 133390

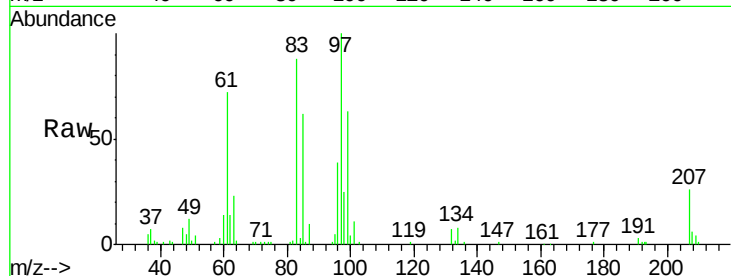
Ion Ratio Lower Upper

97 100

83 88.0 72.9 109.3

85 61.8 48.2 72.4

99 62.7 48.9 73.3

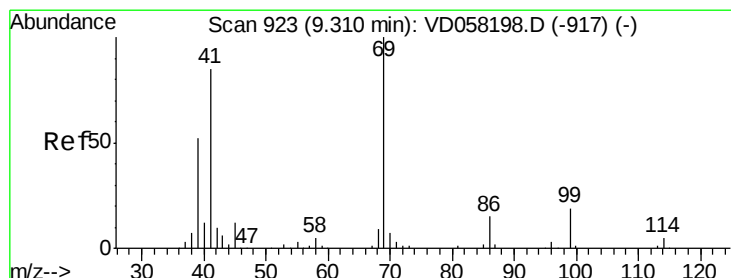
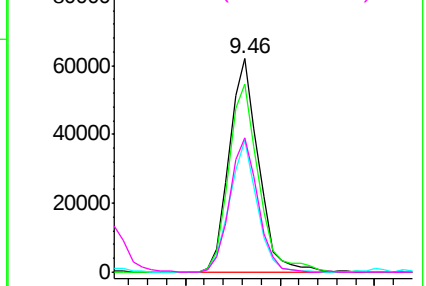
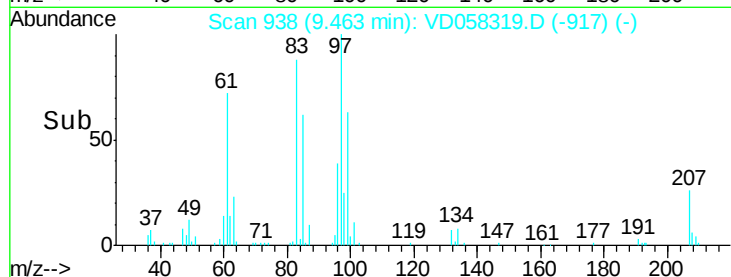


Abundance Ion 96.85 (96.55 to 97.55): VDC

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: 22.465 ug/l

RT: 9.32 min Scan# 924

Delta R.T. 0.02 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

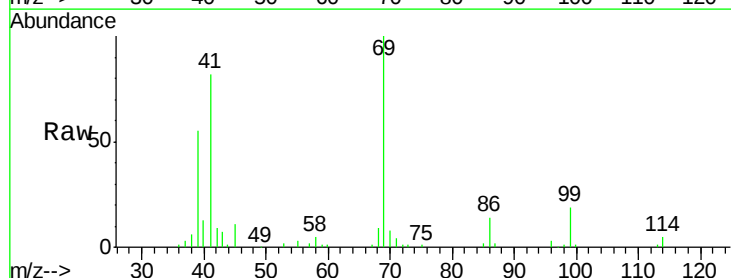
Tgt Ion: 69 Resp: 159080

Ion Ratio Lower Upper

69 100

41 81.6 67.6 101.4

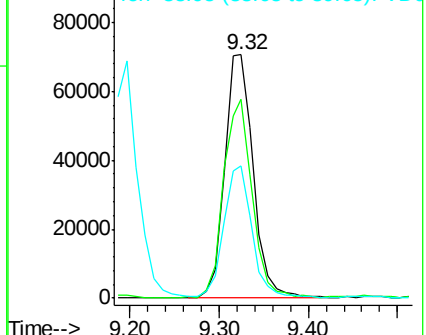
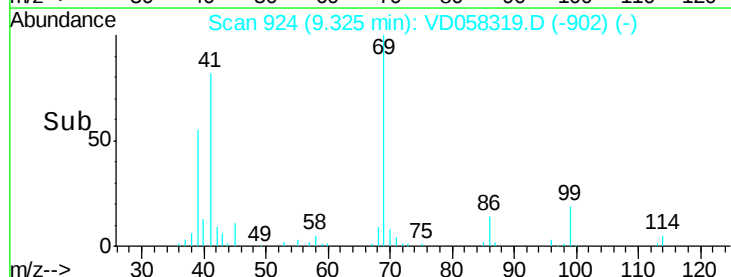
39 54.5 42.2 63.2

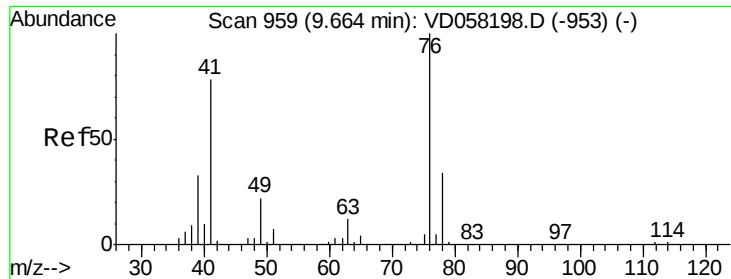


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC





#57

1,3-Dichloropropane

Concen: 22.359 ug/l

RT: 9.67 min Scan# 959

Delta R.T. 0.01 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

Instrument :

MSVOA_D

ClientSampleId :

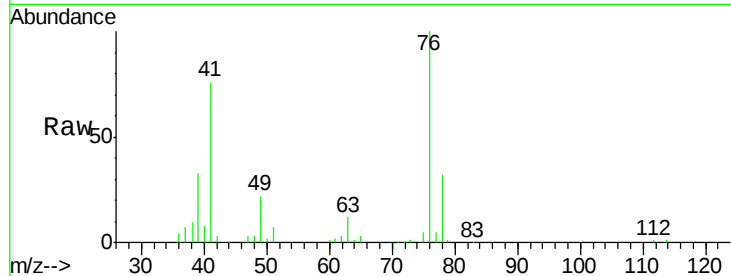
VD0622SBS02

Tot Ion: 76 Resp: 222996

Ion Ratio Lower Upper

76 100

78 32.0 27.0 40.6



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC

9.67

120000

100000

80000

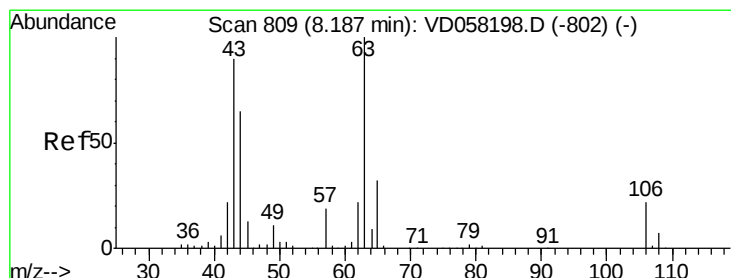
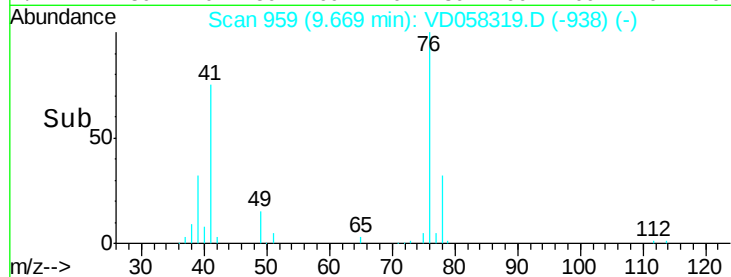
60000

40000

20000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 115.943 ug/l

RT: 8.19 min Scan# 809

Delta R.T. 0.01 min

Lab File: VD058319.D

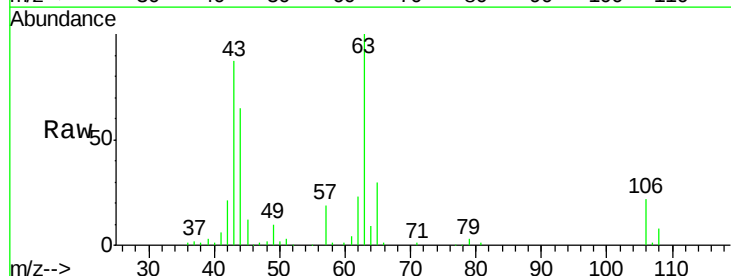
Acq: 23 Jun 2018 3:48

Tgt Ion: 63 Resp: 406439

Ion Ratio Lower Upper

63 100

106 22.4 18.0 27.0



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

8.19

200000

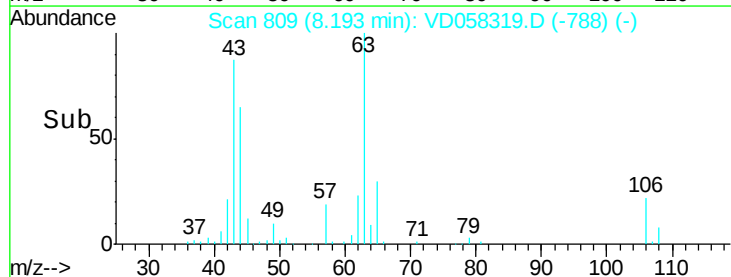
150000

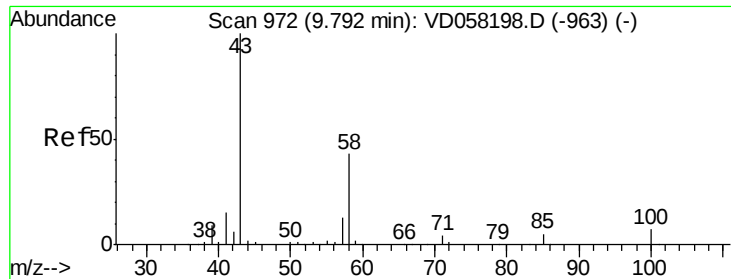
100000

50000

0

Time-->





#59

2-Hexanone

Concen: 106.603 ug/l

RT: 9.80 min Scan# 972

Delta R.T. 0.01 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

Instrument :

MSVOA_D

ClientSampleId :

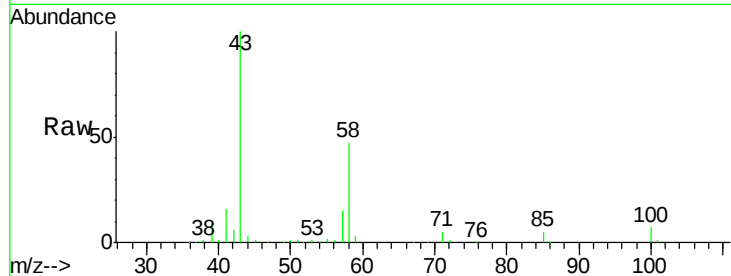
VD0622SBS02

Tot Ion: 43 Resp: 470892

Ion Ratio Lower Upper

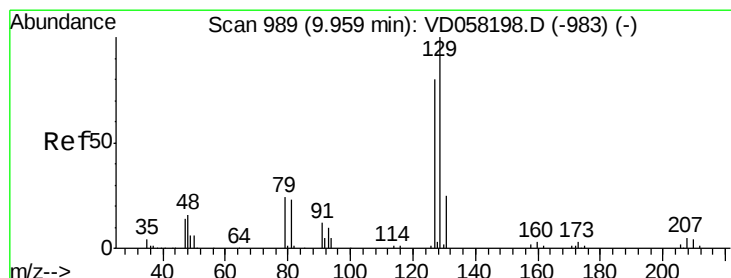
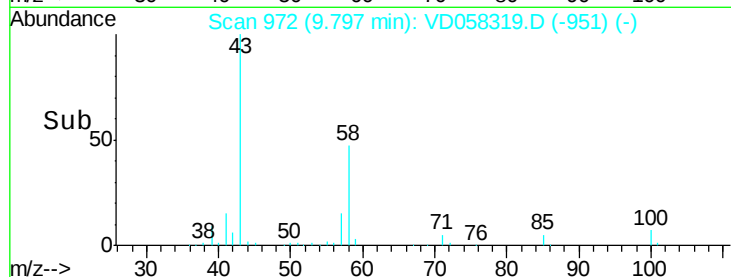
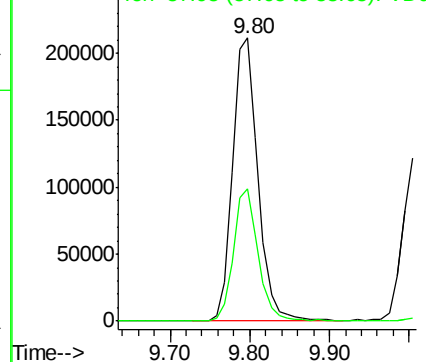
43 100

58 46.6 21.7 65.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#60

Dibromochloromethane

Concen: 21.090 ug/l

RT: 9.96 min Scan# 989

Delta R.T. 0.01 min

Lab File: VD058319.D

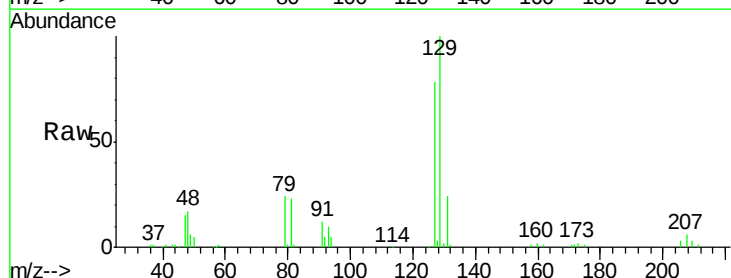
Acq: 23 Jun 2018 3:48

Tgt Ion: 129 Resp: 169471

Ion Ratio Lower Upper

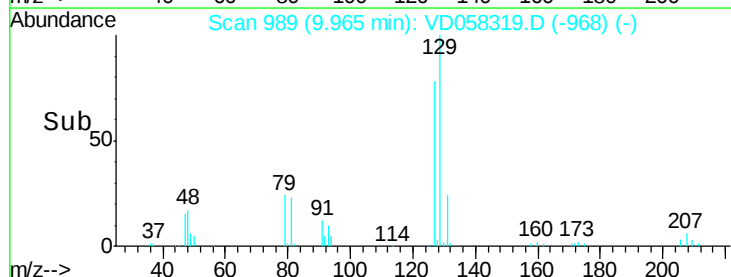
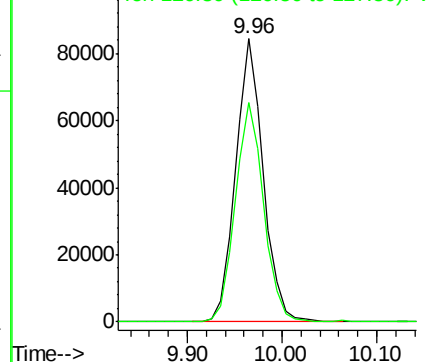
129 100

127 77.6 39.8 119.4



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#61

1,2-Dibromoethane

Concen: 23.109 ug/l

RT: 10.10 min Scan# 1003

Delta R.T. 0.01 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

Instrument :

MSVOA_D

ClientSampleId :

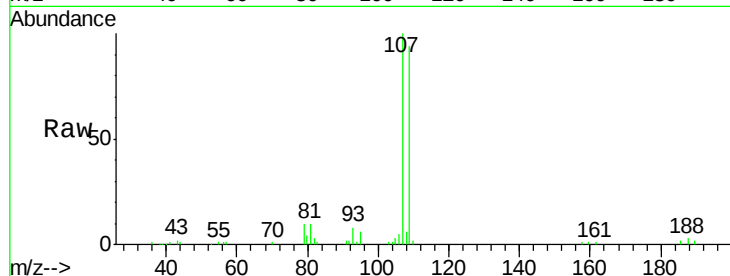
VD0622SBSD02

Tot Ion: 107 Resp: 149759

Ion Ratio Lower Upper

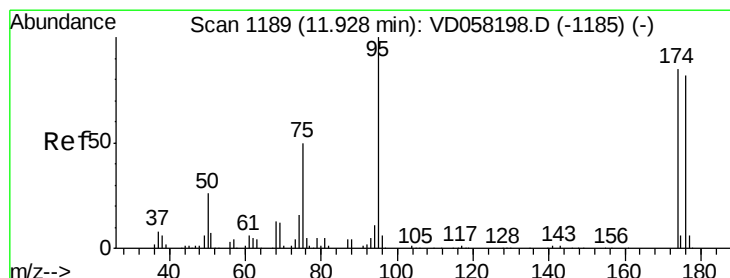
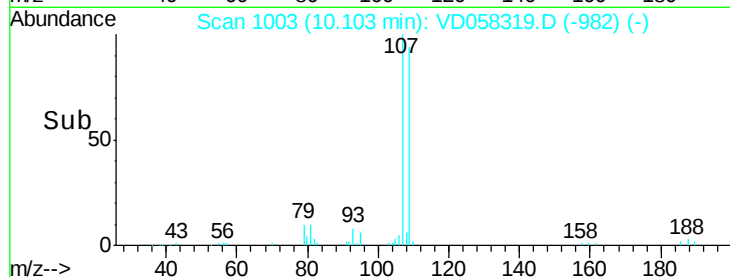
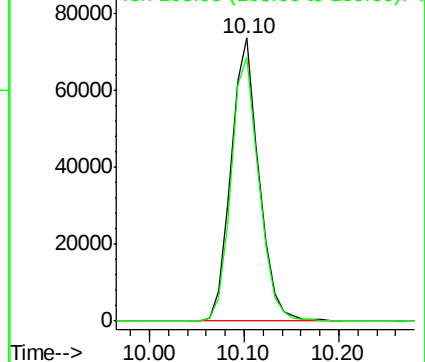
107 100

109 93.5 74.8 112.2



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V



#62

4-Bromofluorobenzene

Concen: 23.109 ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.01 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

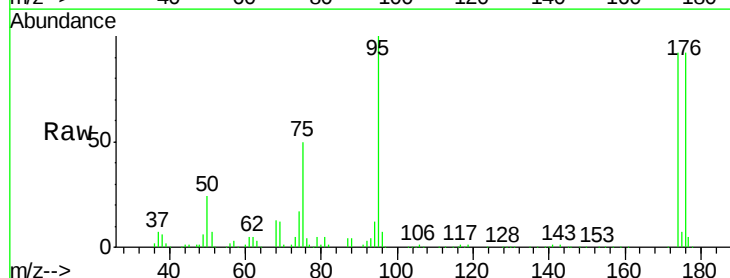
Tgt Ion: 95 Resp: 533518

Ion Ratio Lower Upper

95 100

174 92.1 0.0 170.2

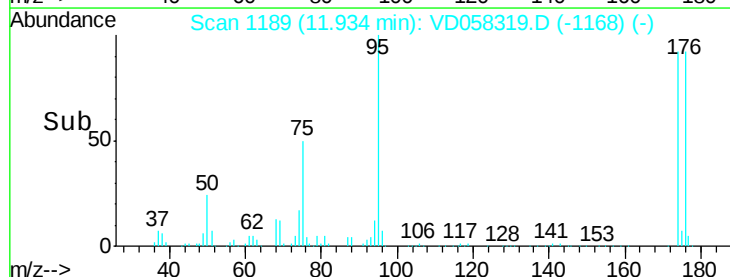
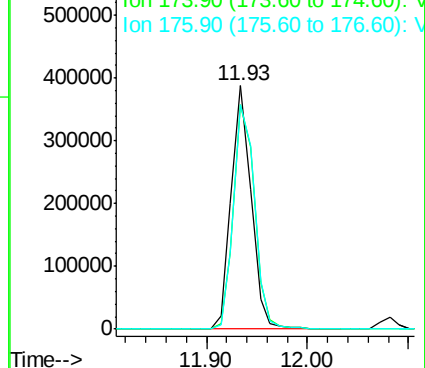
176 92.4 0.0 164.6

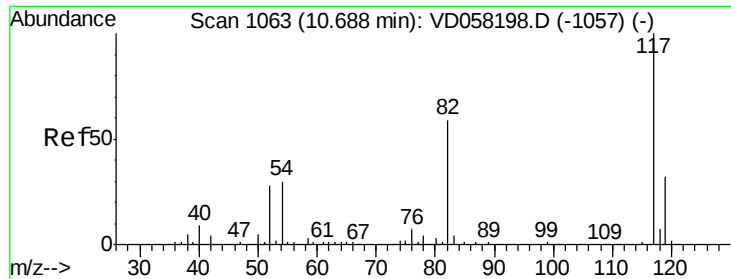


Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.69 min Scan# 1063

Delta R.T. 0.01 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

Instrument :

MSVOA_D

ClientSampleId :

VD0622SBS02

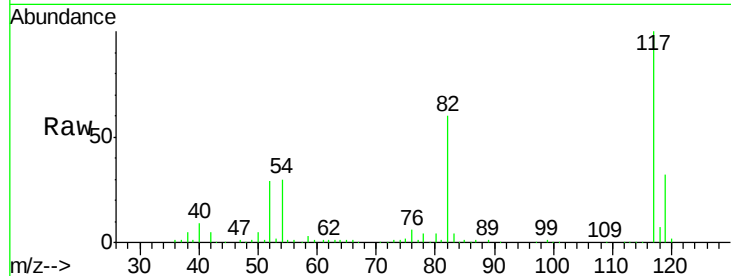
Tot Ion:117 Resp: 996383

Ion Ratio Lower Upper

117 100

82 60.3 47.0 70.6

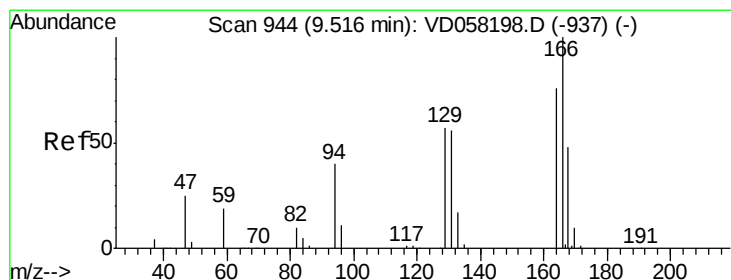
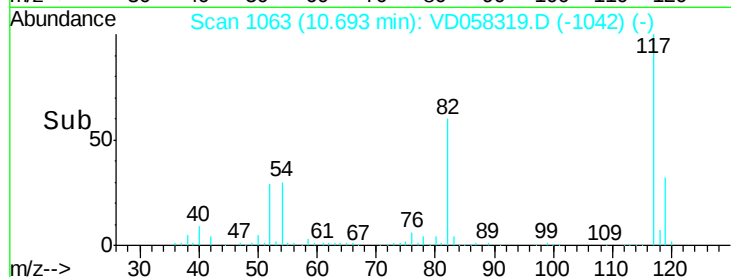
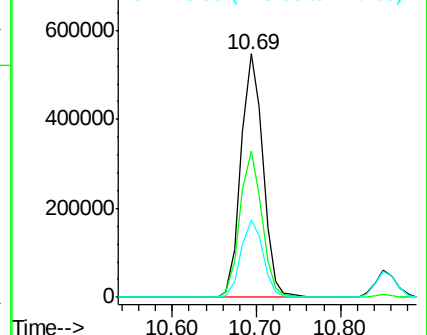
119 31.9 25.3 37.9



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: 23.861 ug/l

RT: 9.52 min Scan# 944

Delta R.T. 0.01 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

Tgt Ion:164 Resp: 200043

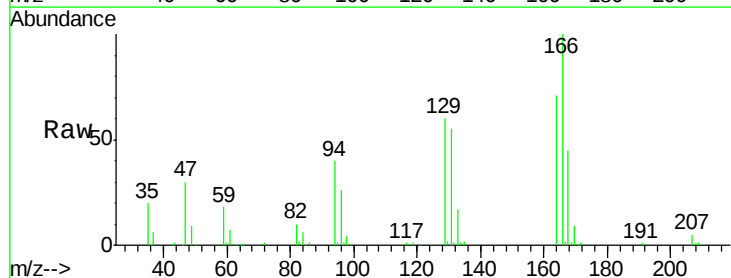
Ion Ratio Lower Upper

164 100

166 140.3 105.4 158.0

129 83.8 59.6 89.4

131 77.2 59.4 89.2

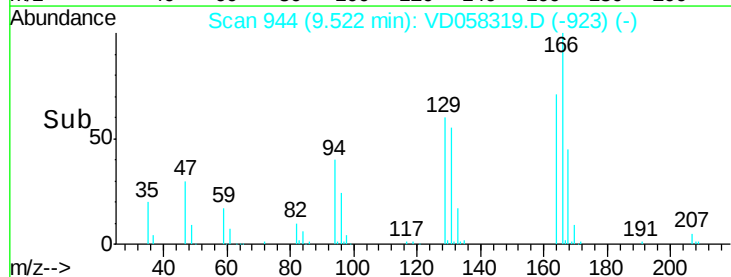
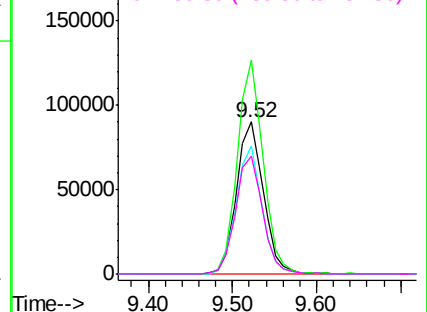


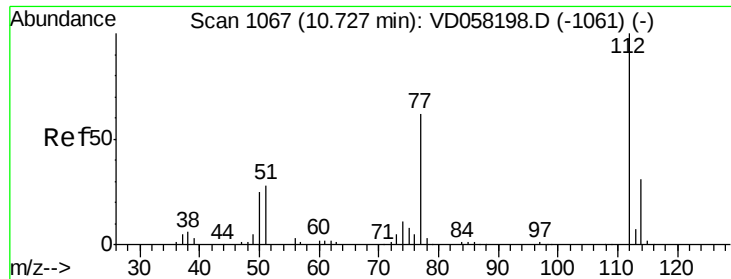
Abundance Ion 163.85 (163.55 to 164.55): V

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

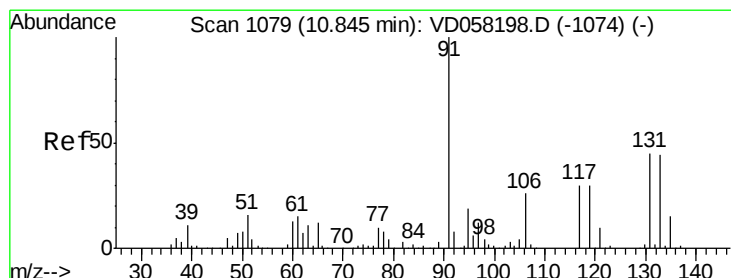
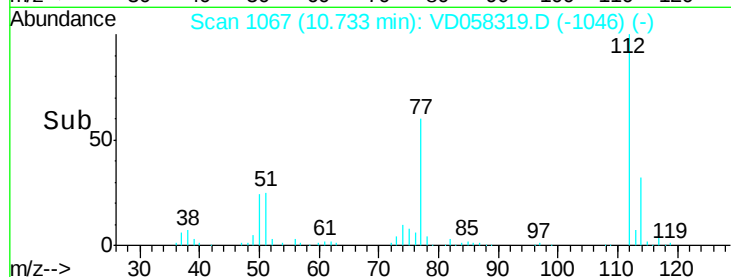
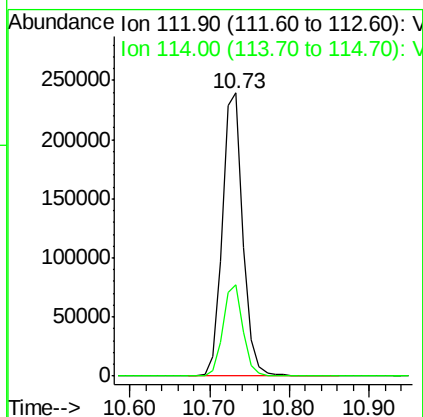
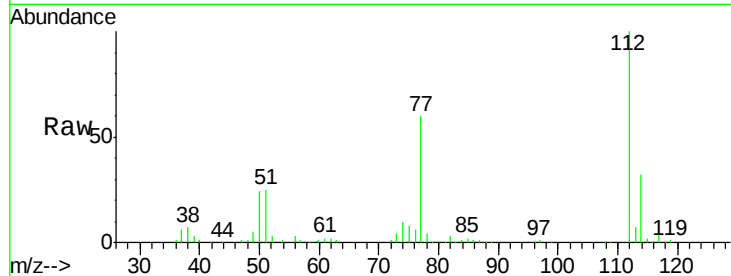




#65
Chlorobenzene
Concen: 23.441 ug/l
RT: 10.73 min Scan# 1067
Delta R.T. 0.01 min
Lab File: VD058319.D
Acq: 23 Jun 2018 3:48

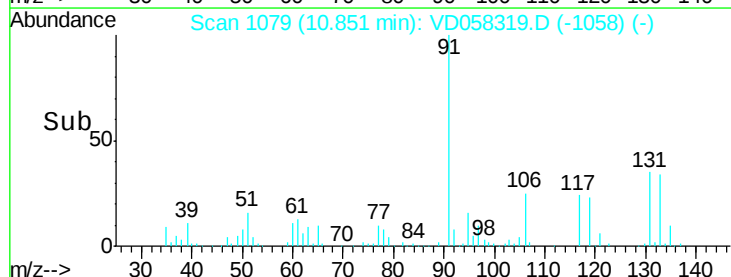
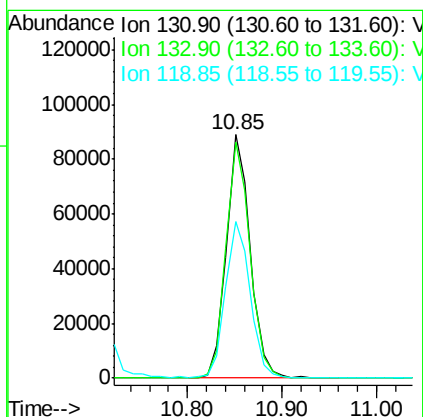
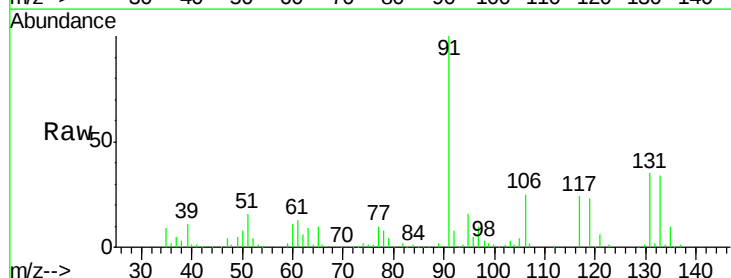
Instrument :
MSVOA_D
ClientSampleId :
VD0622SBSD02

Tot Ion:112 Resp: 436893
Ion Ratio Lower Upper
112 100
114 32.3 25.0 37.4



#66
1,1,1,2-Tetrachloroethane
Concen: 21.471 ug/l
RT: 10.85 min Scan# 1079
Delta R.T. 0.01 min
Lab File: VD058319.D
Acq: 23 Jun 2018 3:48

Tgt Ion:131 Resp: 154427
Ion Ratio Lower Upper
131 100
133 97.1 48.6 145.9
119 64.4 33.0 99.0

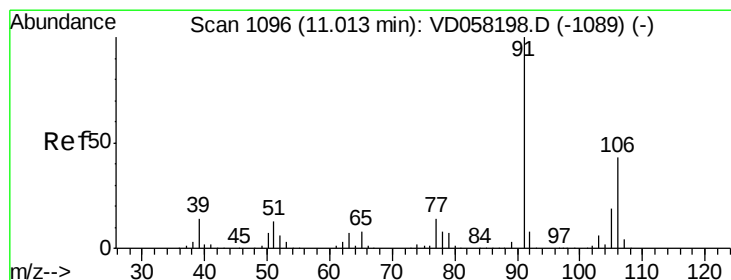
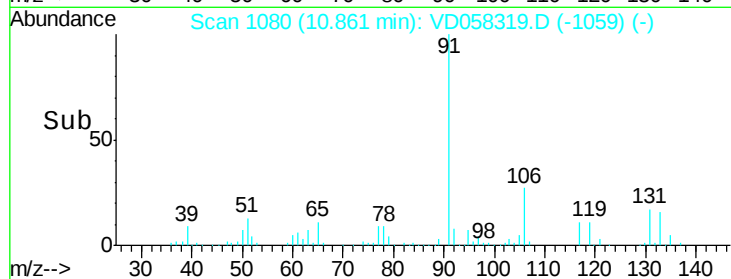
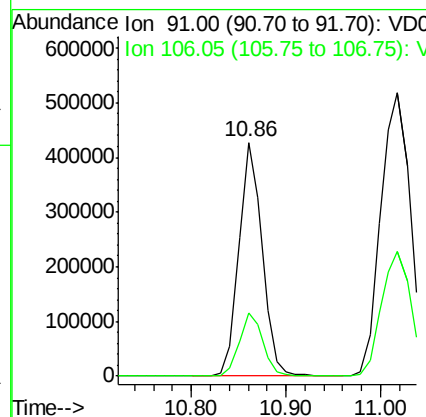
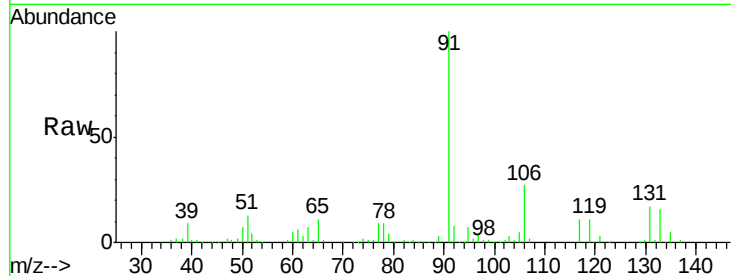




#67
Ethyl Benzene
Concen: 22.113 ug/l
RT: 10.86 min Scan# 1080
Delta R.T. 0.01 min
Lab File: VD058319.D
Acq: 23 Jun 2018 3:48

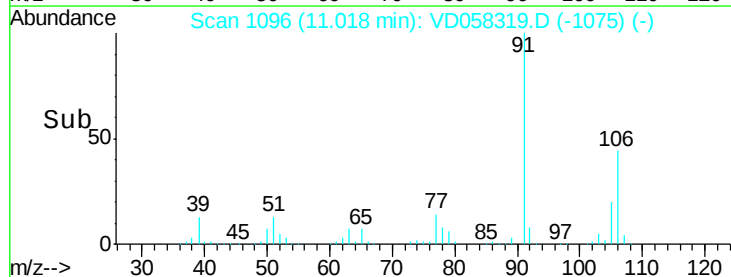
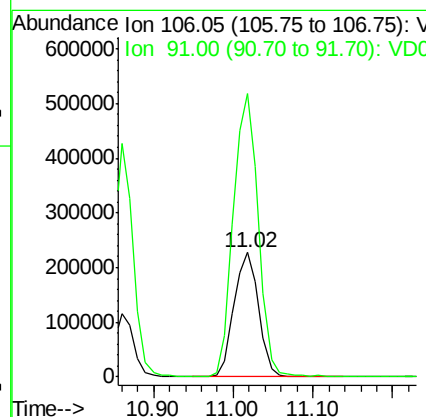
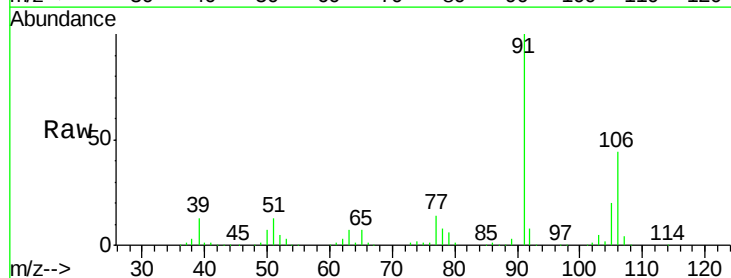
Instrument :
MSVOA_D
ClientSampleId :
VD0622SBS02

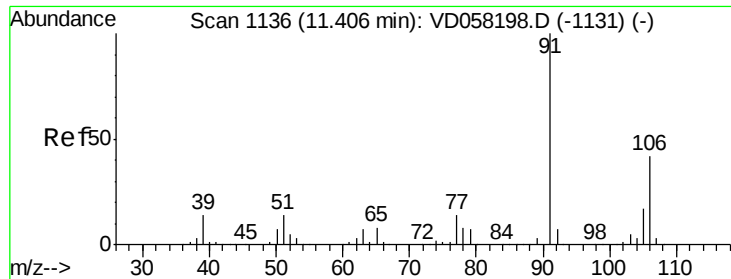
Tot Ion: 91 Resp: 727608
Ion Ratio Lower Upper
91 100
106 27.1 22.0 33.0



#68
m/p-Xylenes
Concen: 45.066 ug/l
RT: 11.02 min Scan# 1096
Delta R.T. 0.01 min
Lab File: VD058319.D
Acq: 23 Jun 2018 3:48

Tgt Ion: 106 Resp: 494504
Ion Ratio Lower Upper
106 100
91 227.7 185.0 277.6

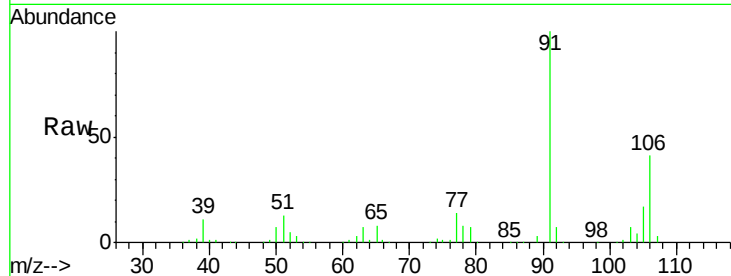




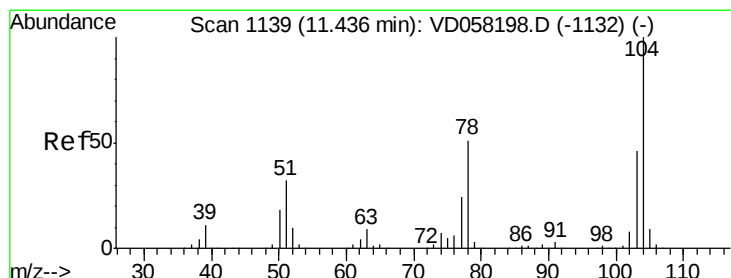
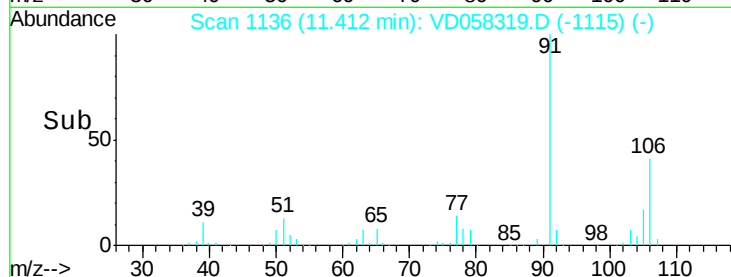
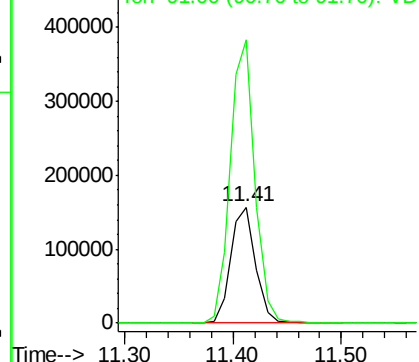
#69
o-Xylene
Concen: 23.882 ug/l
RT: 11.41 min Scan# 1136
Delta R.T. 0.01 min
Lab File: VD058319.D
Acq: 23 Jun 2018 3:48

Instrument :
MSVOA_D
ClientSampleId :
VD0622SBSD02

Tot Ion:106 Resp: 250289
Ion Ratio Lower Upper
106 100
91 243.5 120.2 360.6

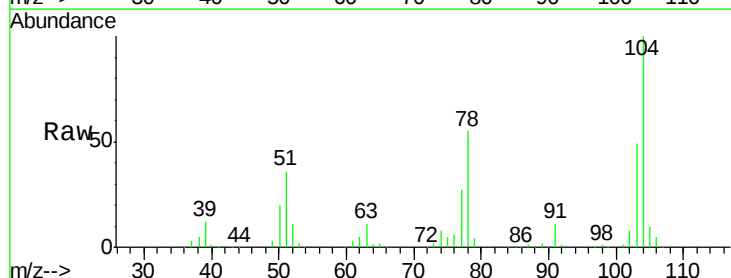


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

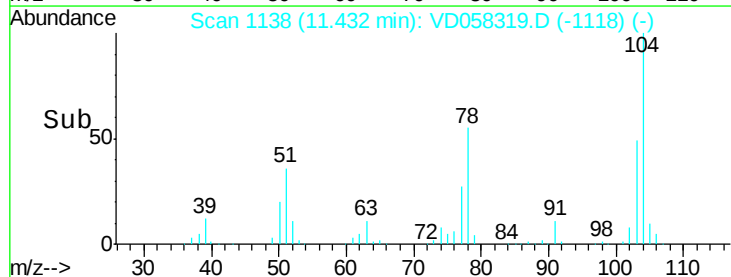
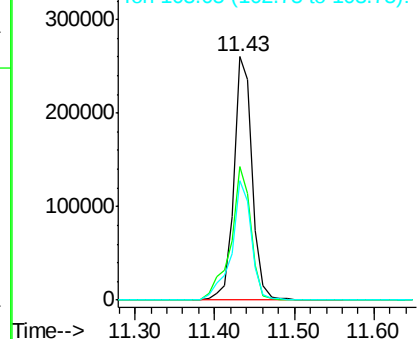


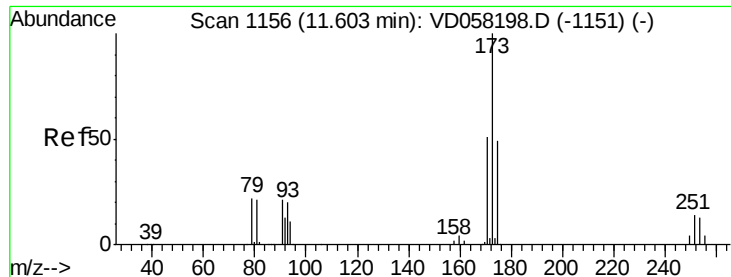
#70
Styrene
Concen: 23.405 ug/l
RT: 11.43 min Scan# 1138
Delta R.T. -0.00 min
Lab File: VD058319.D
Acq: 23 Jun 2018 3:48

Tgt Ion:104 Resp: 418554
Ion Ratio Lower Upper
104 100
78 54.9 40.8 61.2
103 49.2 37.0 55.6



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





#71

Bromoform

Concen: 22.191 ug/l

RT: 11.60 min Scan# 1155

Delta R.T. -0.00 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

Instrument :

MSVOA_D

ClientSampleId :

VD0622SBS02

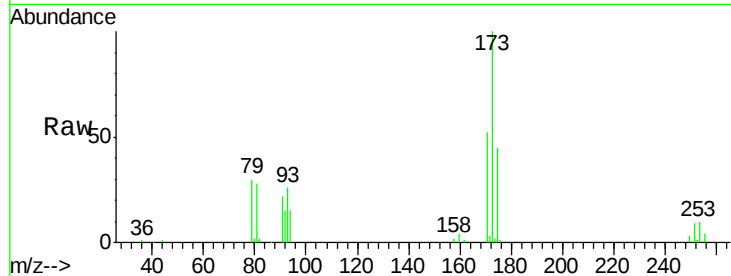
Tot Ion:173 Resp: 127323

Ion Ratio Lower Upper

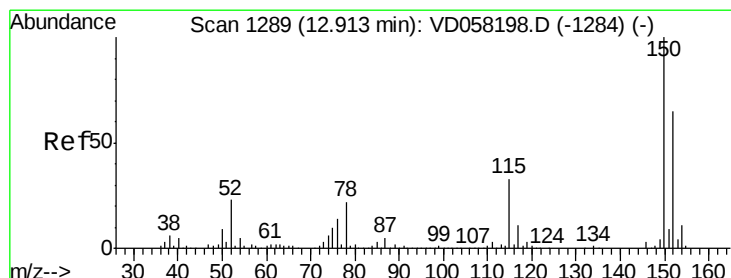
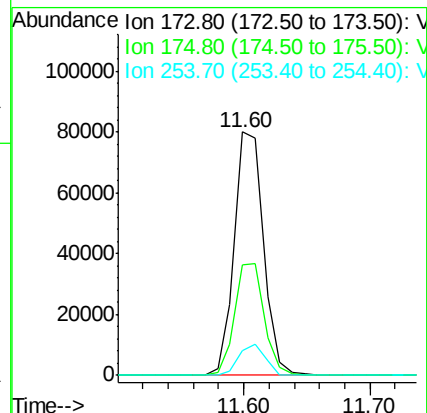
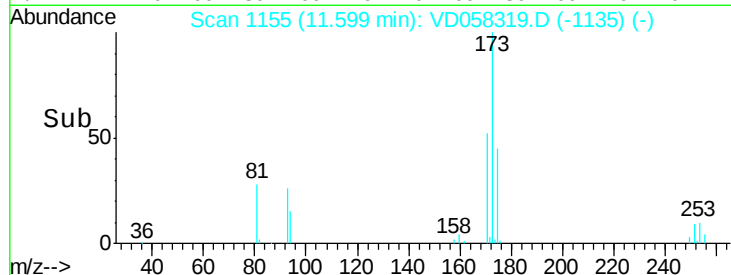
173 100

175 45.4 24.6 74.0

254 10.1 10.3 15.5#



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: 50.000 ug/l

RT: 12.91 min Scan# 1288

Delta R.T. -0.00 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

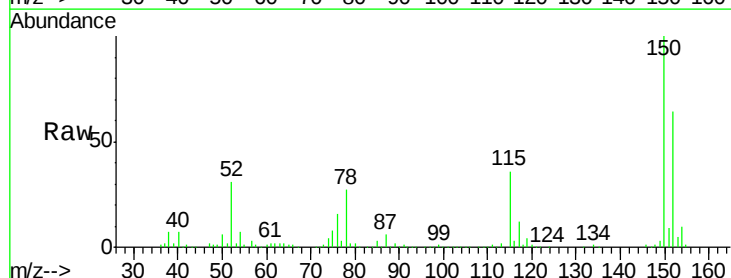
Tgt Ion:152 Resp: 507109

Ion Ratio Lower Upper

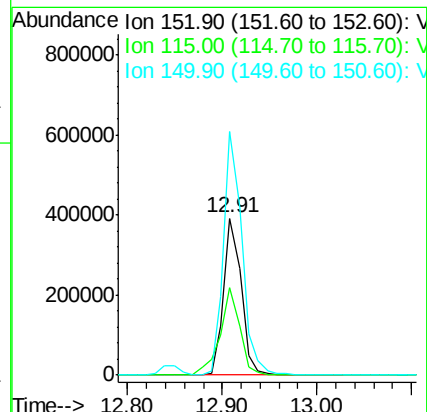
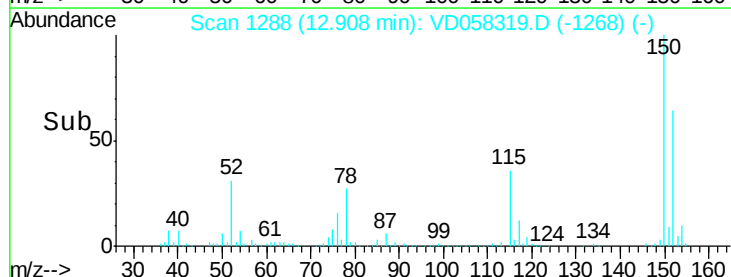
152 100

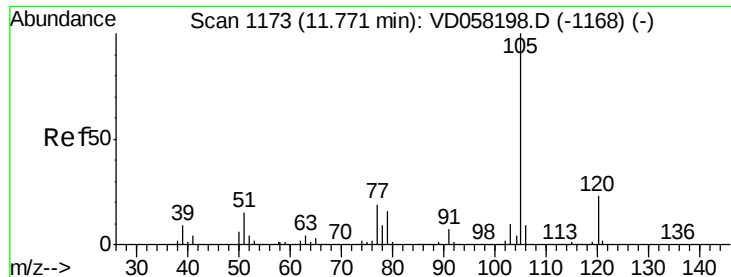
115 56.0 25.1 75.3

150 155.5 0.0 308.8



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: 23.293 ug/l

RT: 11.78 min Scan# 1173

Delta R.T. 0.01 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

Instrument :

MSVOA_D

ClientSampleId :

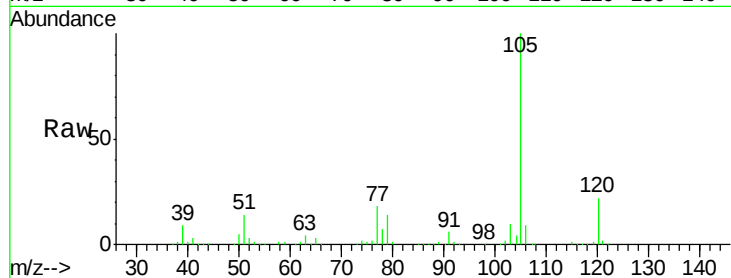
VD0622SBS02

Tot Ion: 105 Resp: 706551

Ion Ratio Lower Upper

105 100

120 22.0 11.6 34.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

11.78

600000

500000

400000

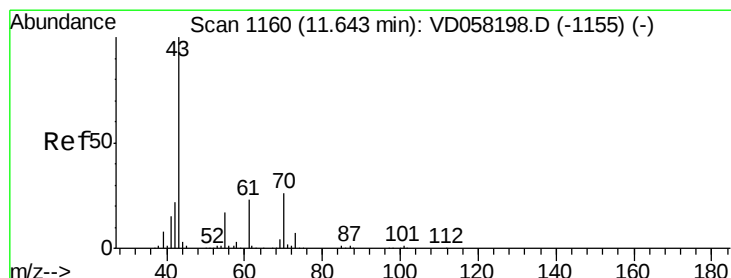
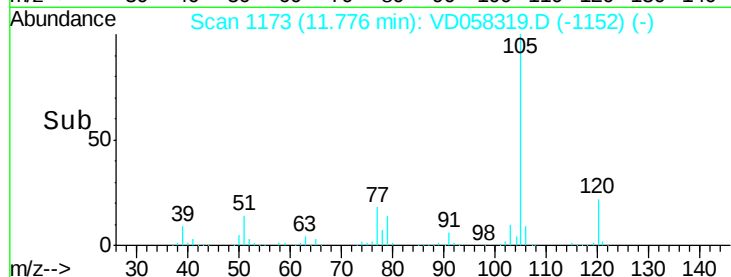
300000

200000

100000

0

Time-->



#74

N-ethyl acetate

Concen: 21.605 ug/l

RT: 11.65 min Scan# 1160

Delta R.T. 0.01 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

Tgt Ion: 43 Resp: 253389

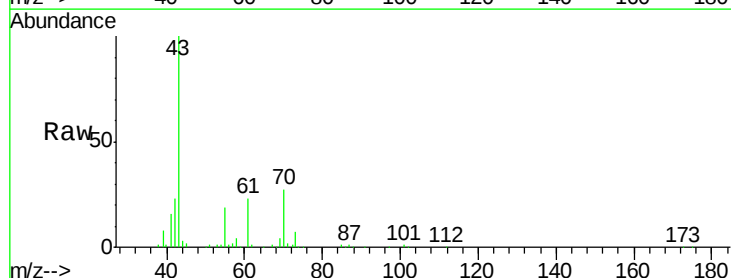
Ion Ratio Lower Upper

43 100

70 27.3 20.9 31.3

55 19.2 13.5 20.3

61 23.4 18.2 27.2



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

300000

250000

200000

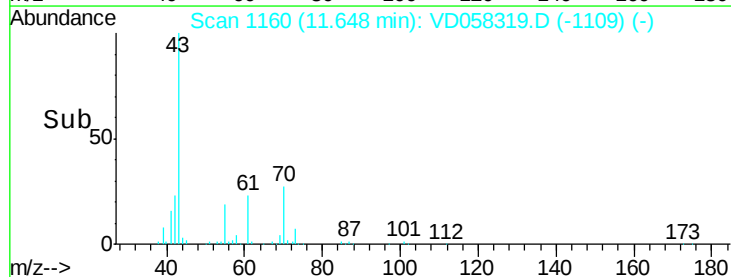
150000

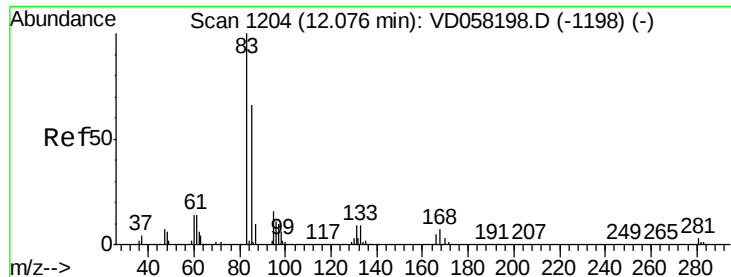
100000

50000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 22.549 ug/l

RT: 12.08 min Scan# 1204

Delta R.T. 0.01 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

Instrument :

MSVOA_D

ClientSampleId :

VD0622SBS02

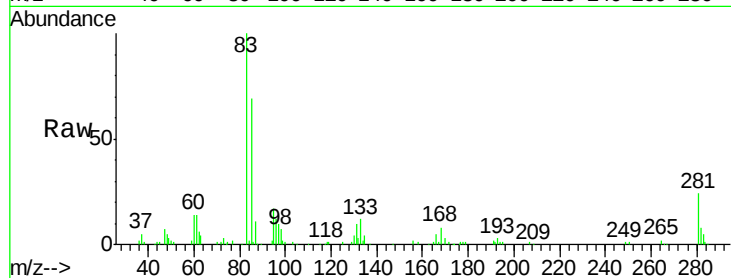
Tot Ion: 83 Resp: 159168

Ion	Ratio	Lower	Upper
83	100		
131	10.2	4.8	14.3
85	69.3	33.1	99.5

83 100

131 10.2 4.8 14.3

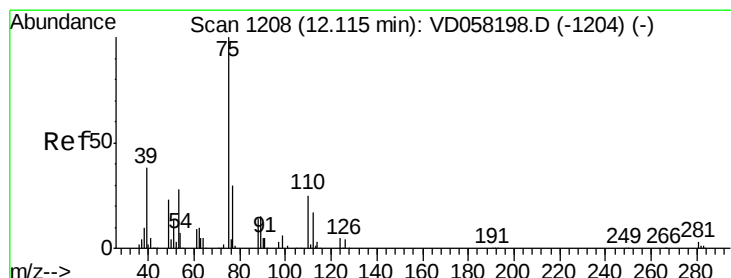
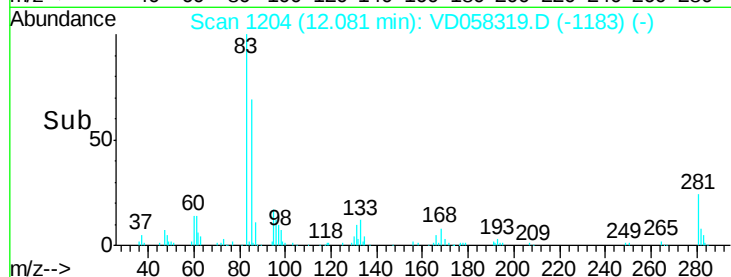
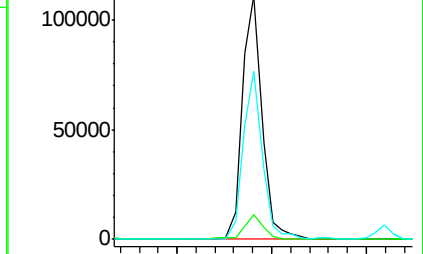
85 69.3 33.1 99.5



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: 22.762 ug/l

RT: 12.11 min Scan# 1207

Delta R.T. -0.00 min

Lab File: VD058319.D

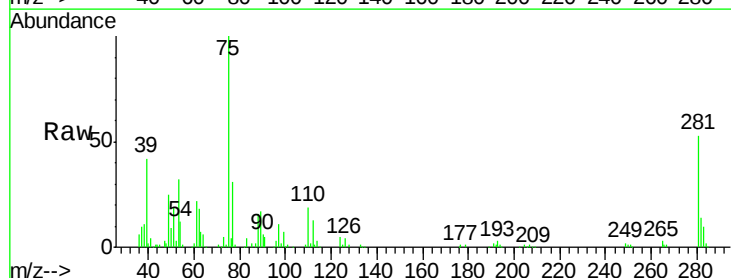
Acq: 23 Jun 2018 3:48

Tgt Ion: 75 Resp: 168525

Ion	Ratio	Lower	Upper
75	100		
77	31.5	16.0	47.9

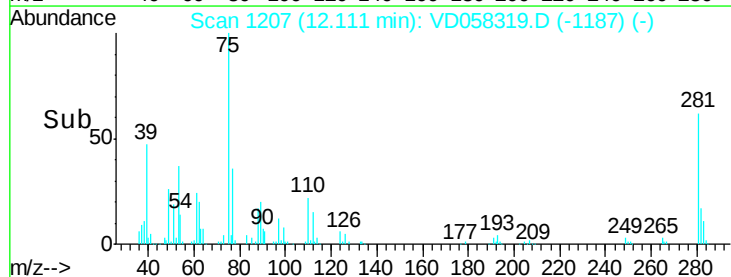
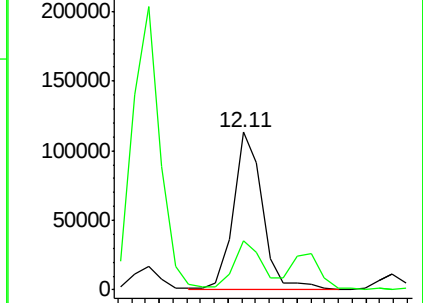
75 100

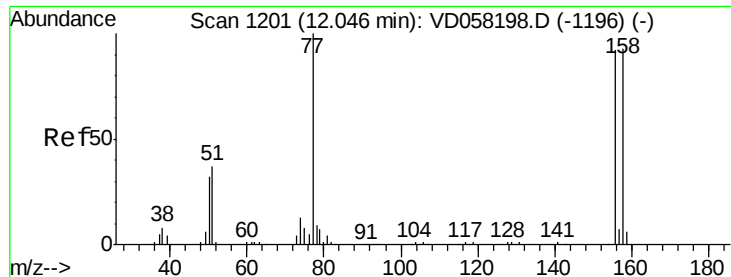
77 31.5 16.0 47.9



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 22.574 ug/l

RT: 12.04 min Scan# 1200

Delta R.T. -0.00 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

Instrument :

MSVOA_D

ClientSampleId :

VD0622SBS02

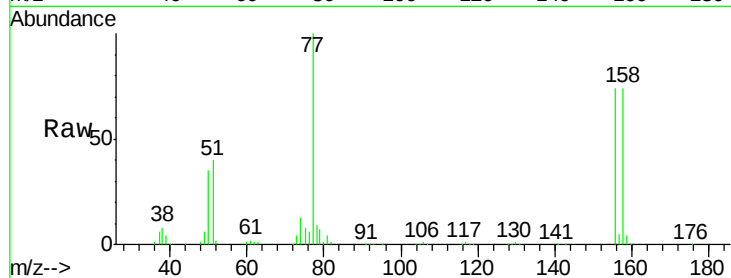
Tot Ion:156 Resp: 205040

Ion Ratio Lower Upper

156 100

77 134.9 54.5 163.6

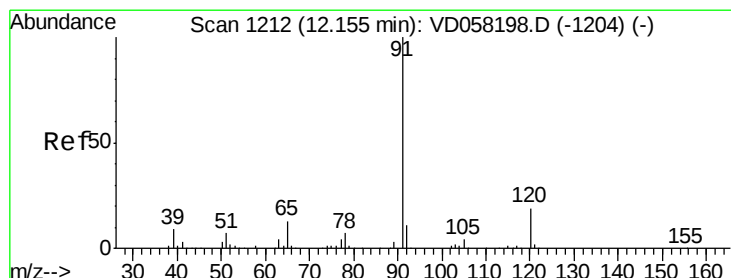
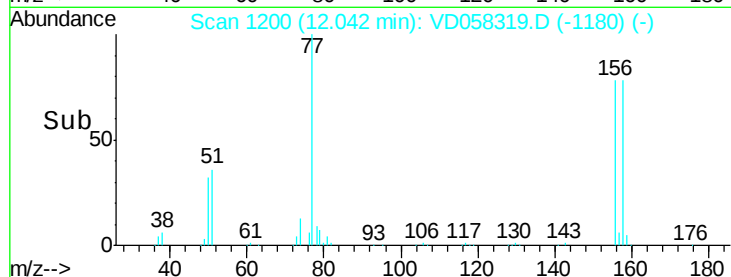
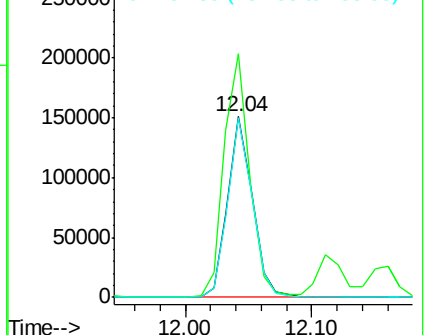
158 99.7 50.8 152.5



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: 22.550 ug/l

RT: 12.16 min Scan# 1212

Delta R.T. 0.01 min

Lab File: VD058319.D

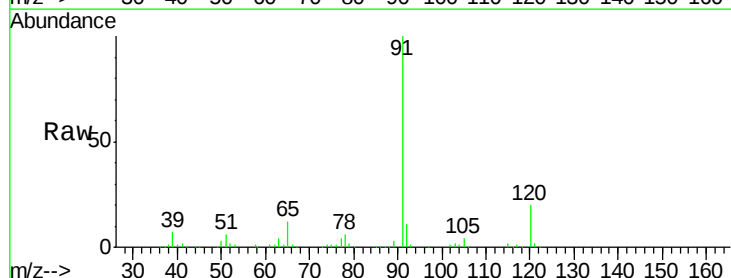
Acq: 23 Jun 2018 3:48

Tgt Ion: 91 Resp: 883324

Ion Ratio Lower Upper

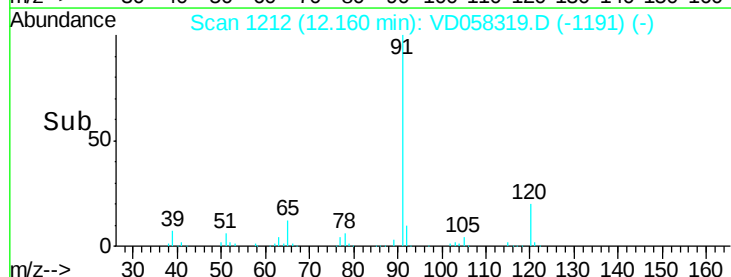
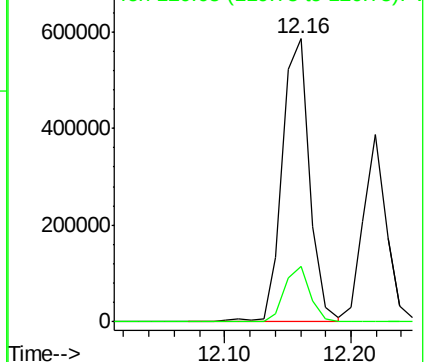
91 100

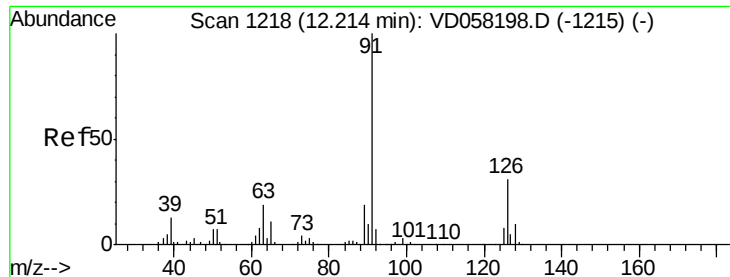
120 19.8 9.7 29.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V

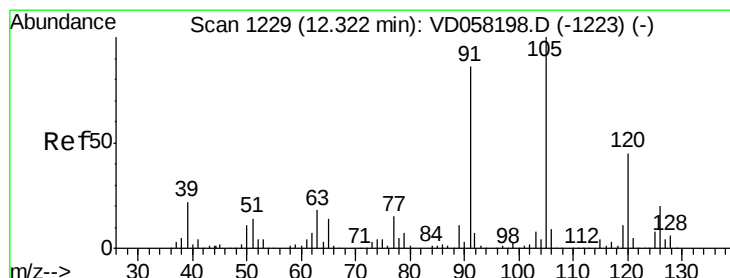
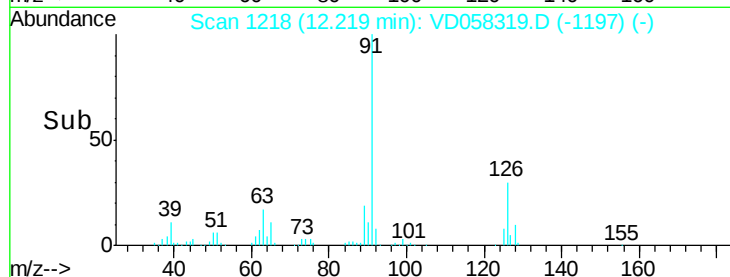
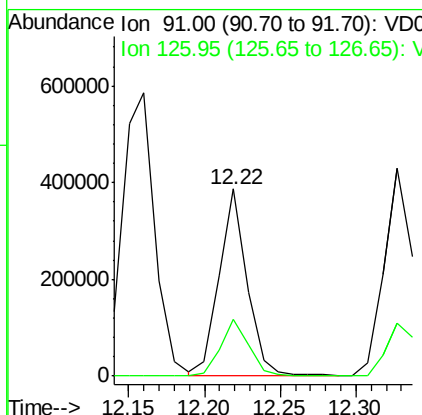
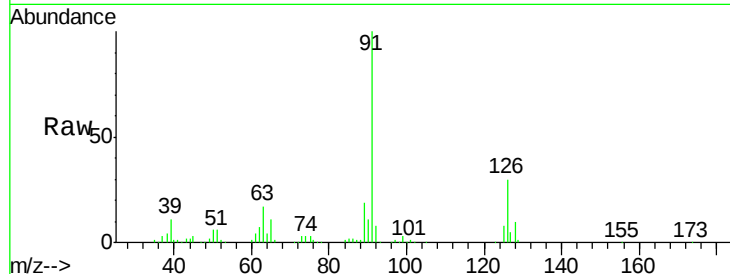




#79
 2-Chlorotoluene
 Concen: 22.079 ug/l
 RT: 12.22 min Scan# 1218
 Delta R.T. 0.01 min
 Lab File: VD058319.D
 Acq: 23 Jun 2018 3:48

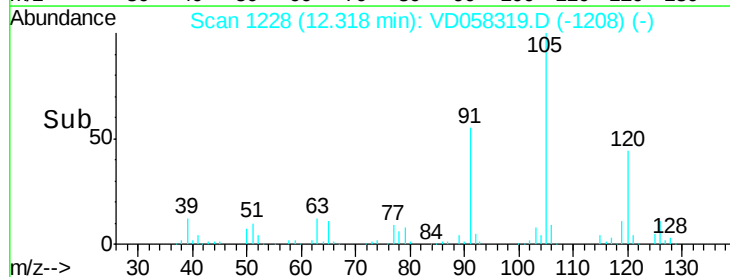
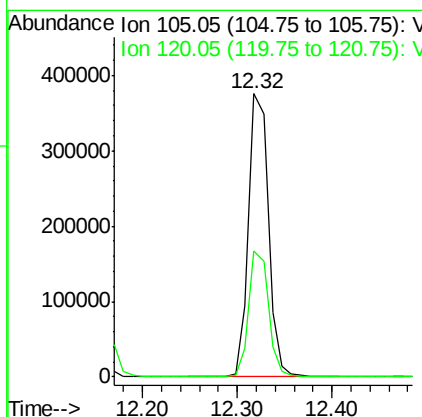
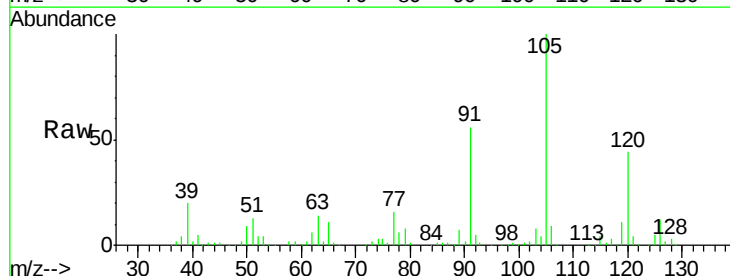
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0622SBS02

Tot Ion: 91 Resp: 494915
 Ion Ratio Lower Upper
 91 100
 126 30.4 14.9 44.5



#80
 1,3,5-Trimethylbenzene
 Concen: 23.331 ug/l
 RT: 12.32 min Scan# 1228
 Delta R.T. -0.00 min
 Lab File: VD058319.D
 Acq: 23 Jun 2018 3:48

Tgt Ion: 105 Resp: 551989
 Ion Ratio Lower Upper
 105 100
 120 44.3 22.5 67.5





#81

trans-1,4-Dichloro-2-butene

Concen: 20.047 ug/l

RT: 11.85 min Scan# 1180

Delta R.T. 0.01 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

Instrument :

MSVOA_D

ClientSampleId :

VD0622SBSD02

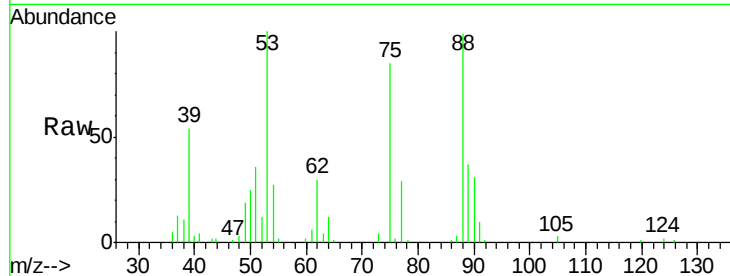
Tot Ion: 75 Resp: 36201

Ion Ratio Lower Upper

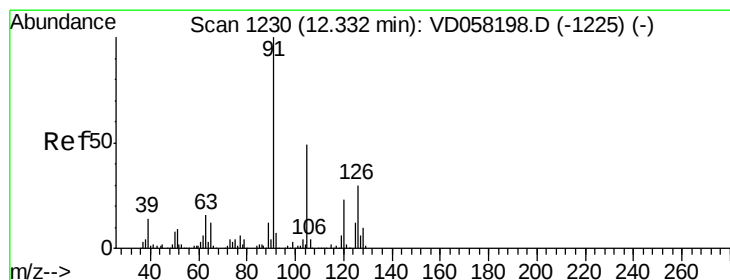
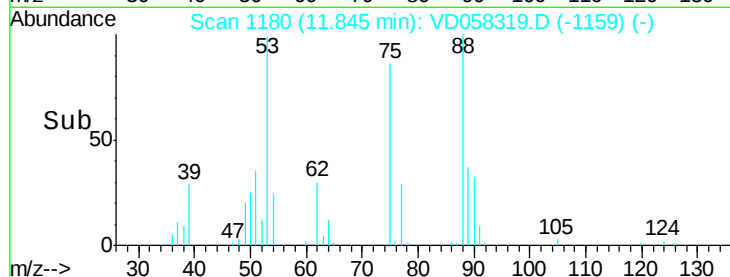
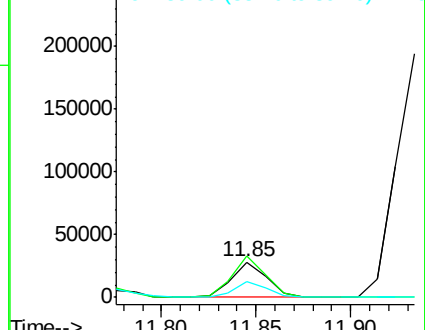
75 100

53 117.9 100.8 151.2

89 43.4 34.6 52.0



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



#82

4-Chlorotoluene

Concen: 23.915 ug/l

RT: 12.33 min Scan# 1229

Delta R.T. -0.00 min

Lab File: VD058319.D

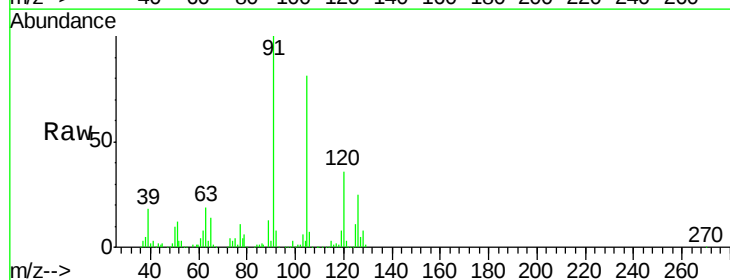
Acq: 23 Jun 2018 3:48

Tgt Ion: 91 Resp: 584403

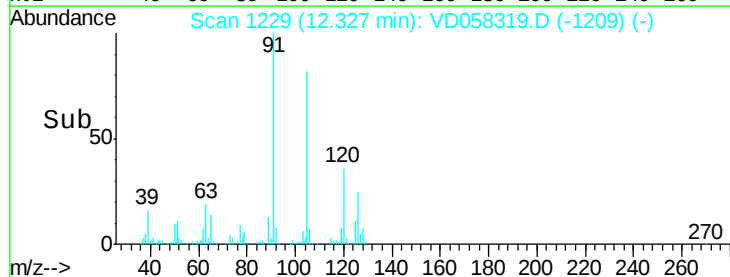
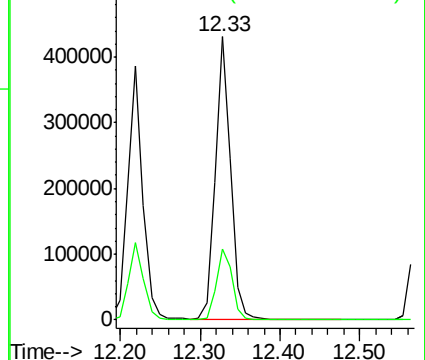
Ion Ratio Lower Upper

91 100

126 25.2 14.9 44.9



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

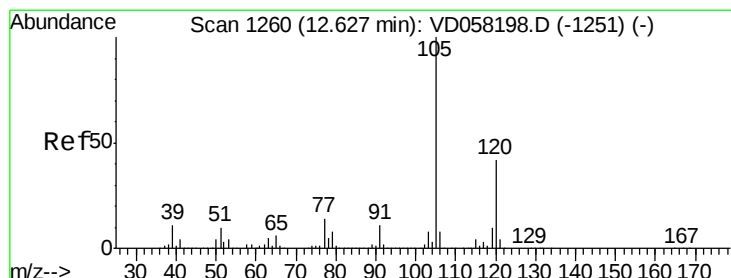
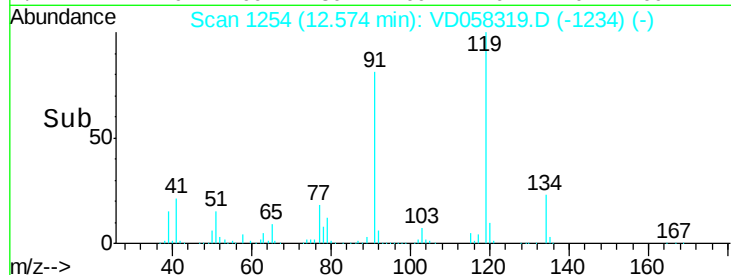
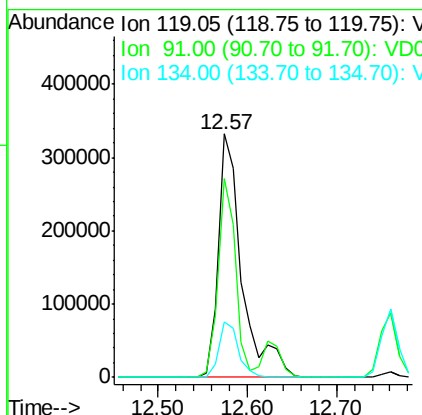
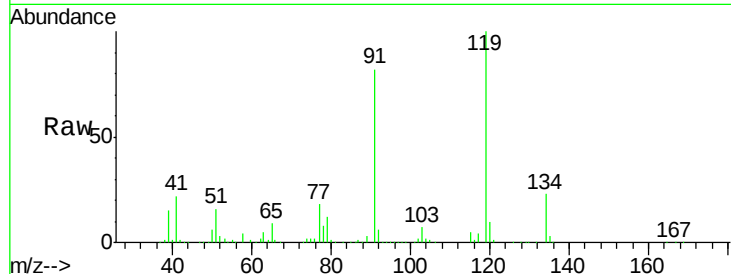




#83
 tert-Butylbenzene
 Concen: 22.654 ug/l
 RT: 12.57 min Scan# 1254
 Delta R.T. -0.00 min
 Lab File: VD058319.D
 Acq: 23 Jun 2018 3:48

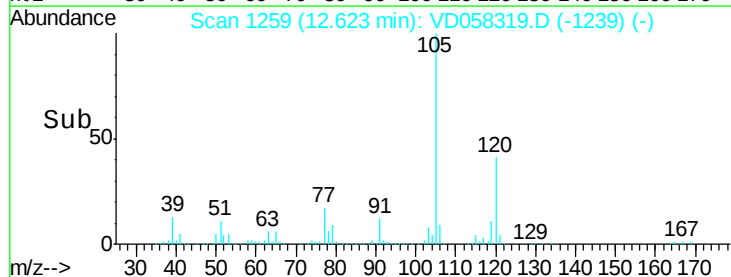
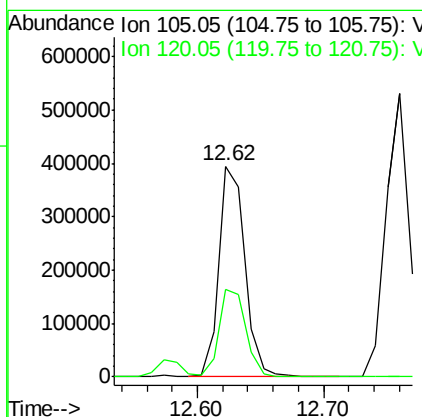
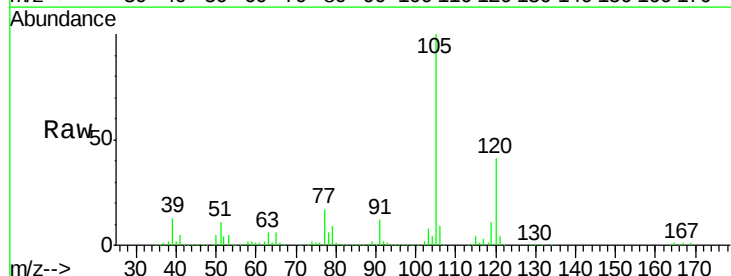
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0622SBS02

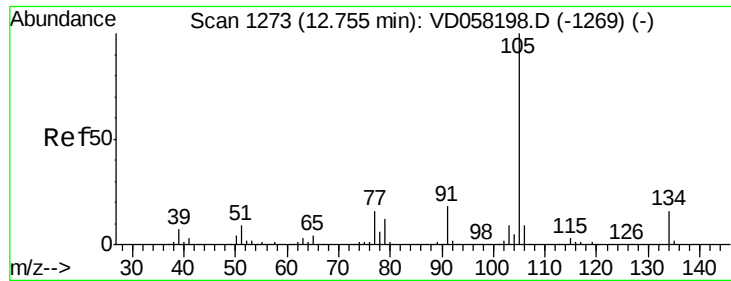
Tot Ion:119 Resp: 616204
 Ion Ratio Lower Upper
 119 100
 91 81.7 38.9 116.6
 134 22.6 11.2 33.5



#84
 1,2,4-Trimethylbenzene
 Concen: 21.728 ug/l
 RT: 12.62 min Scan# 1259
 Delta R.T. -0.00 min
 Lab File: VD058319.D
 Acq: 23 Jun 2018 3:48

Tgt Ion:105 Resp: 558791
 Ion Ratio Lower Upper
 105 100
 120 41.2 20.8 62.4





#85

sec-Butylbenzene

Concen: 21.886 ug/l

RT: 12.76 min Scan# 1273

Delta R.T. 0.01 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

Instrument :

MSVOA_D

ClientSampleId :

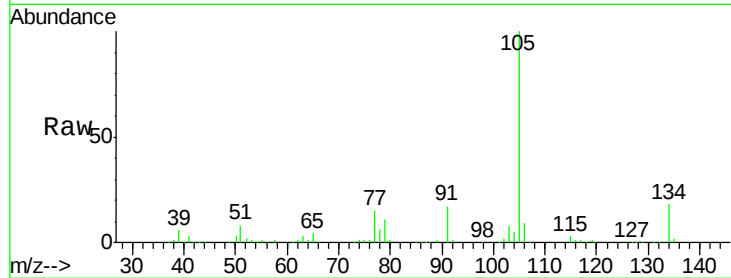
VD0622SBS02

Tot Ion:105 Resp: 697763

Ion Ratio Lower Upper

105 100

134 17.5 8.1 24.3



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V

12.76

600000

500000

400000

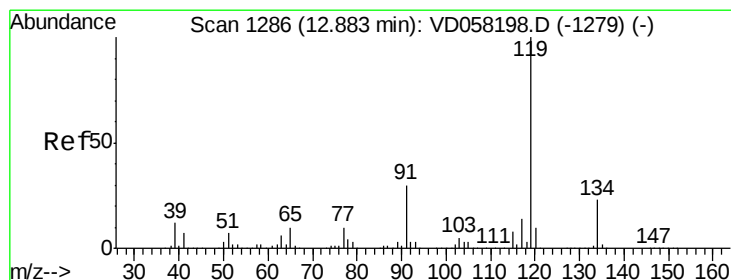
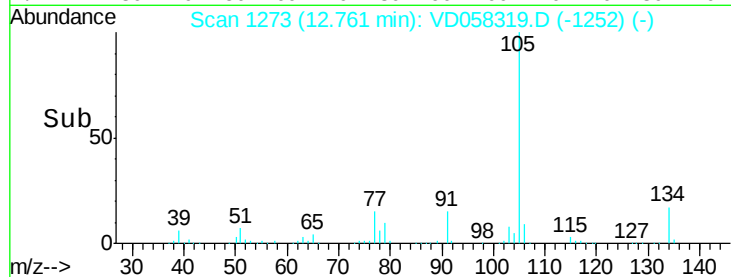
300000

200000

100000

0

Time-->



#86

p-Isopropyltoluene

Concen: 22.252 ug/l

RT: 12.89 min Scan# 1286

Delta R.T. 0.01 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

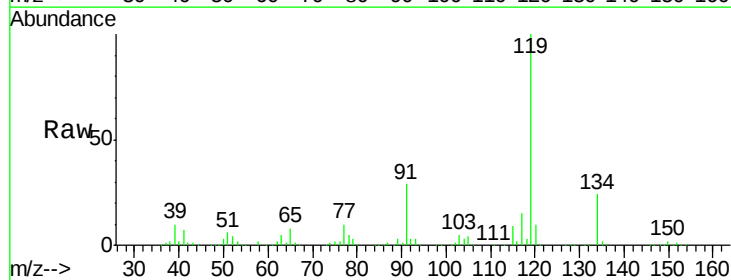
Tgt Ion:119 Resp: 574927

Ion Ratio Lower Upper

119 100

134 23.6 11.6 34.8

91 28.5 15.0 45.1



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

12.89

600000

500000

400000

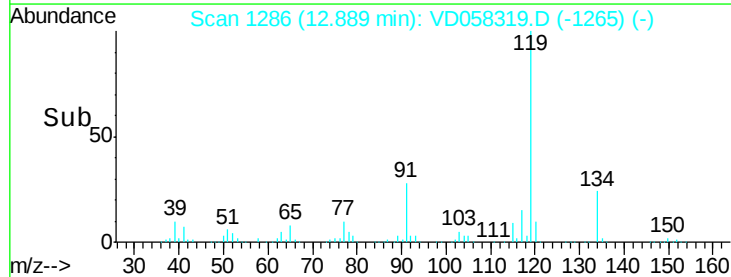
300000

200000

100000

0

Time-->





#87

1,3-Dichlorobenzene

Concen: 22.342 ug/l

RT: 12.84 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

Instrument :

MSVOA_D

ClientSampleId :

VD0622SBS02

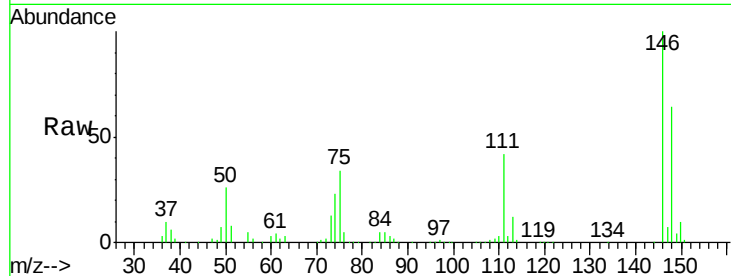
Tot Ion:146 Resp: 352711

Ion Ratio Lower Upper

146 100

111 41.6 18.4 55.0

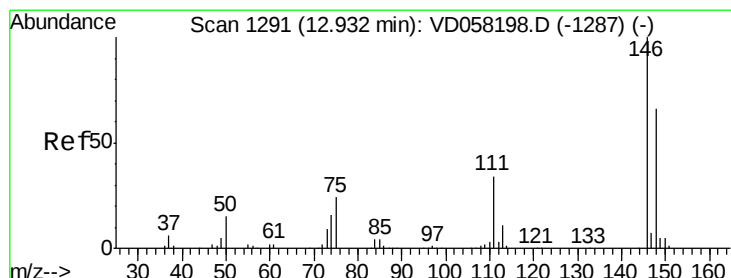
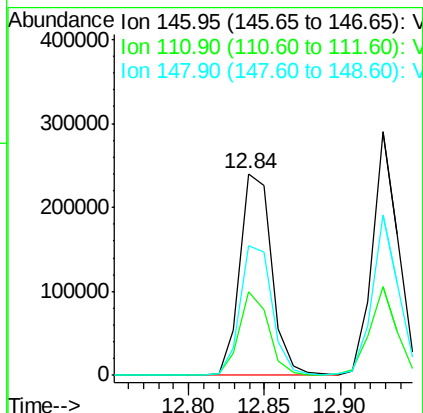
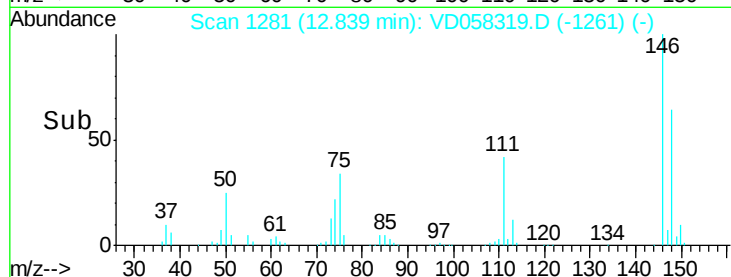
148 64.2 32.8 98.4



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



#88

1,4-Dichlorobenzene

Concen: 22.698 ug/l

RT: 12.93 min Scan# 1290

Delta R.T. -0.00 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

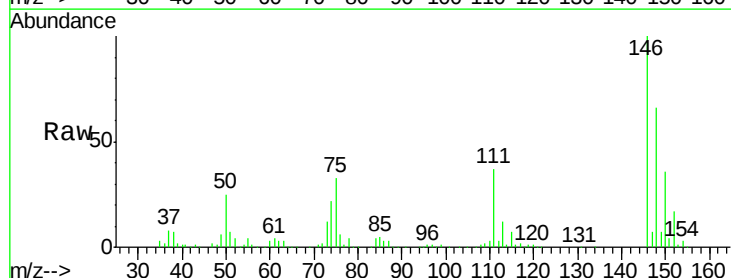
Tgt Ion:146 Resp: 349923

Ion Ratio Lower Upper

146 100

111 36.6 17.2 51.5

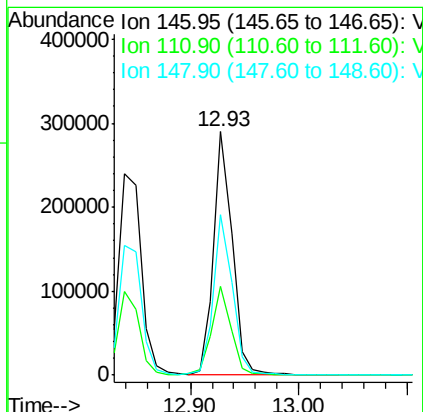
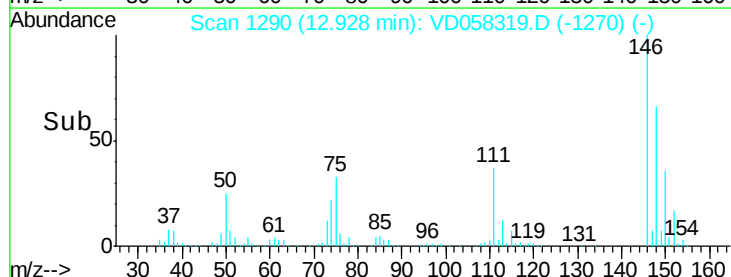
148 65.7 33.1 99.3

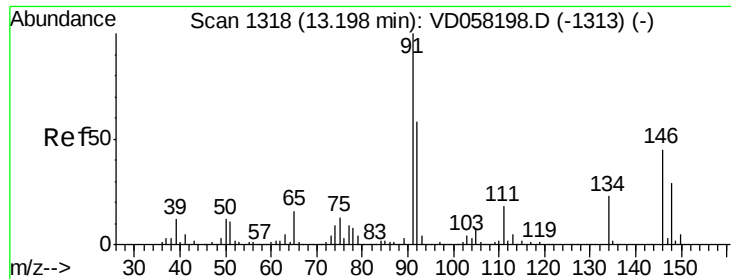


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

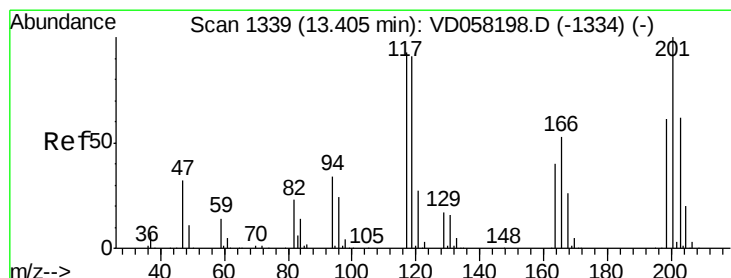
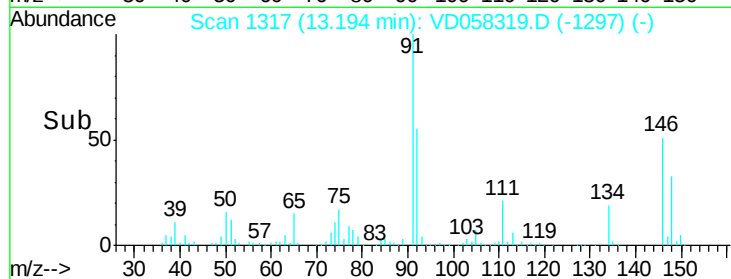
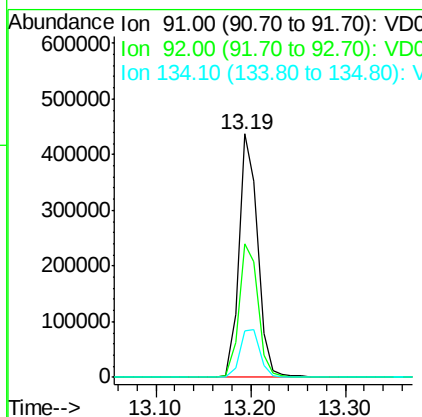
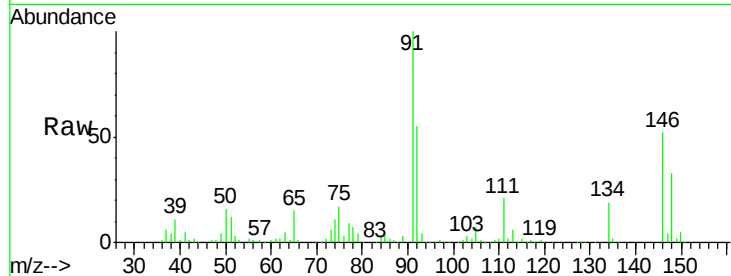




#89
n-Butylbenzene
Concen: 22.002 ug/l
RT: 13.19 min Scan# 1317
Delta R.T. -0.00 min
Lab File: VD058319.D
Acq: 23 Jun 2018 3:48

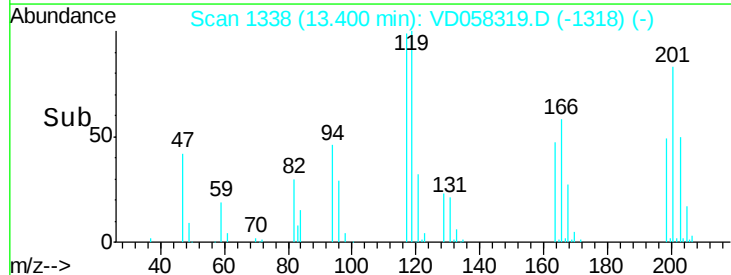
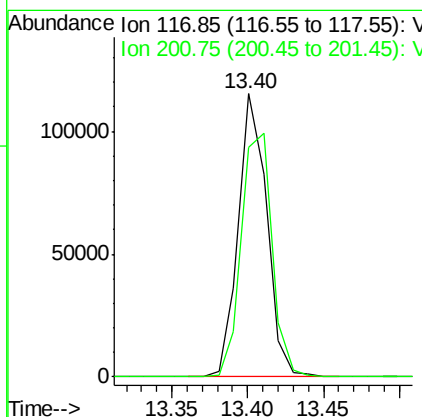
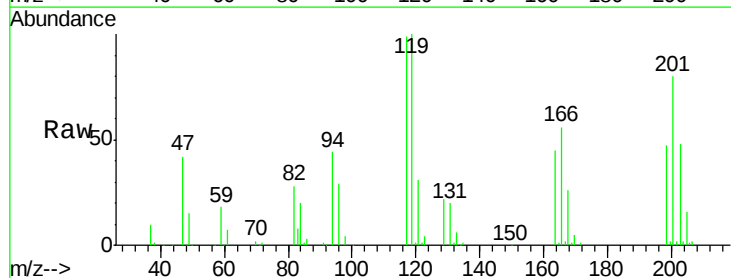
Instrument :
MSVOA_D
ClientSampleId :
VD0622SBS02

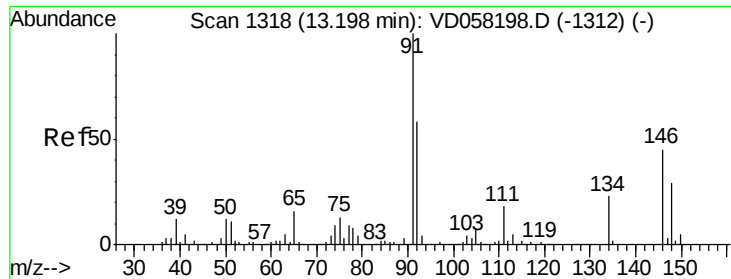
Tot Ion: 91 Resp: 597425
Ion Ratio Lower Upper
91 100
92 54.7 29.2 87.6
134 19.1 11.3 33.8



#90
Hexachloroethane
Concen: 22.396 ug/l
RT: 13.40 min Scan# 1338
Delta R.T. -0.00 min
Lab File: VD058319.D
Acq: 23 Jun 2018 3:48

Tgt Ion: 117 Resp: 150184
Ion Ratio Lower Upper
117 100
201 81.0 53.8 161.4

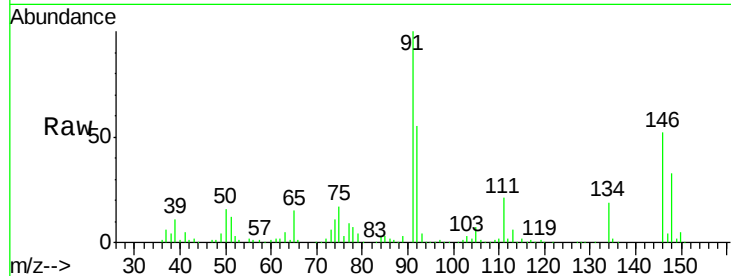




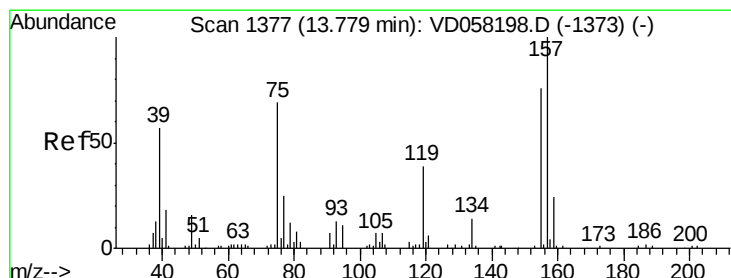
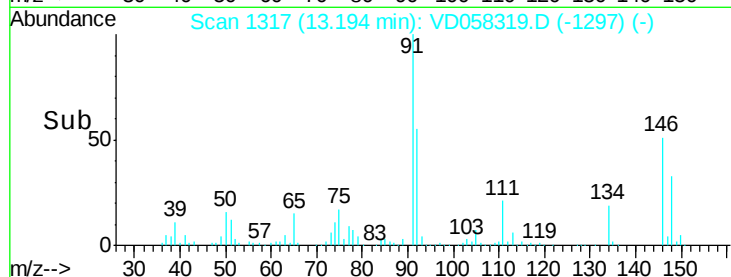
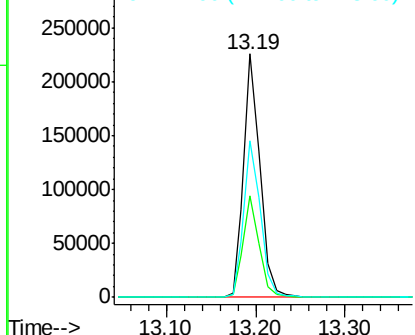
#91
 1,2-Dichlorobenzene
 Concen: 21.647 ug/l
 RT: 13.19 min Scan# 1317
 Delta R.T. -0.00 min
 Lab File: VD058319.D
 Acq: 23 Jun 2018 3:48

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0622SBS02

Tot Ion:146 Resp: 290820
 Ion Ratio Lower Upper
 146 100
 111 41.5 19.6 58.7
 148 64.2 32.0 96.2

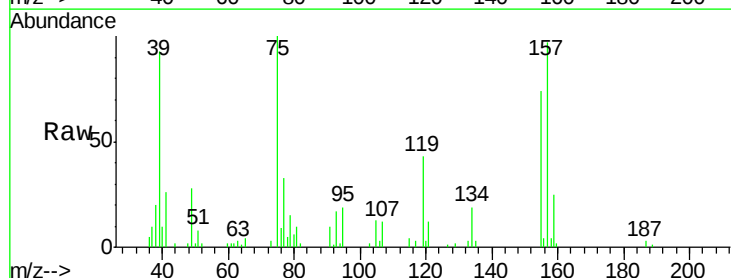


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

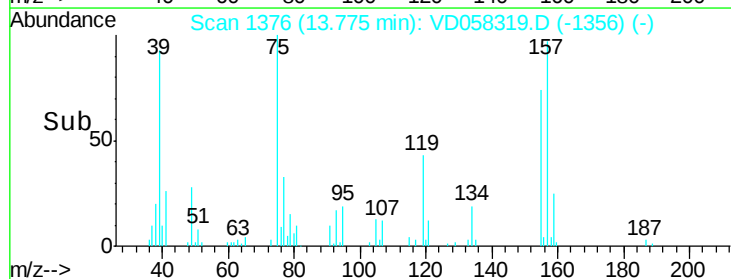
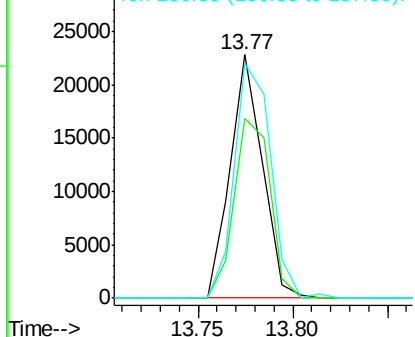


#92
 1,2-Dibromo-3-Chloropropane
 Concen: 23.774 ug/l
 RT: 13.77 min Scan# 1376
 Delta R.T. -0.00 min
 Lab File: VD058319.D
 Acq: 23 Jun 2018 3:48

Tgt Ion: 75 Resp: 26707
 Ion Ratio Lower Upper
 75 100
 155 73.7 54.5 163.5
 157 96.5 72.0 215.9



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

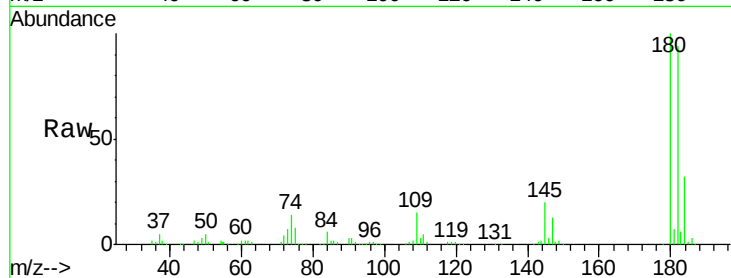




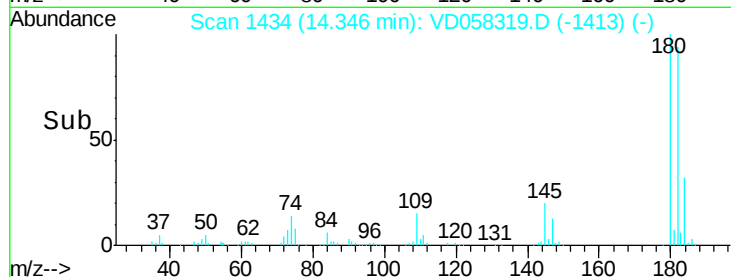
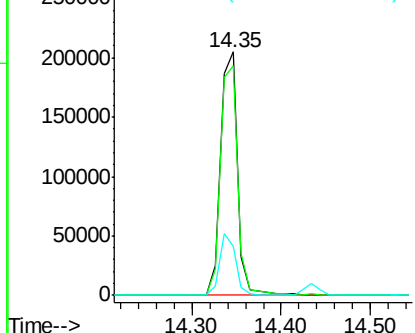
#93
 1,2,4-Trichlorobenzene
 Concen: 21.495 ug/l
 RT: 14.35 min Scan# 1434
 Delta R.T. 0.01 min
 Lab File: VD058319.D
 Acq: 23 Jun 2018 3:48

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0622SBSD02

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.4	47.1	141.3
145	19.9	11.7	35.0

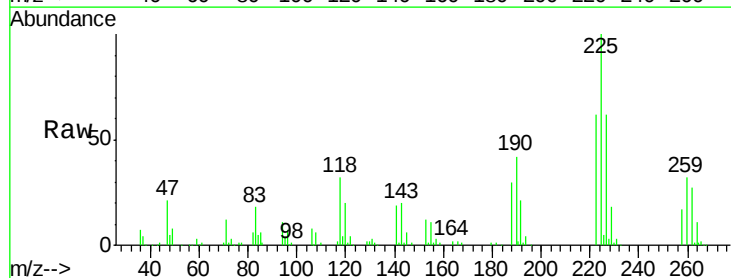


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

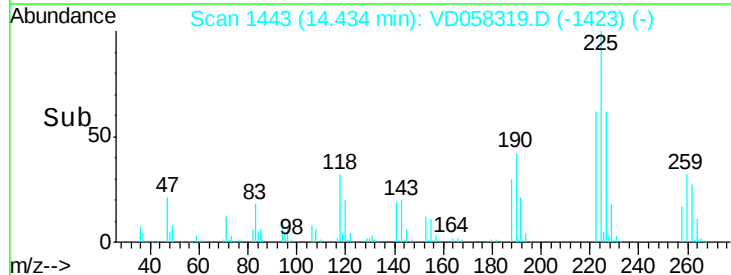
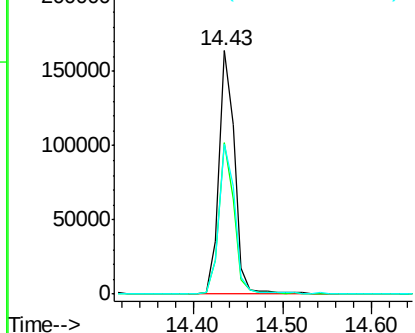


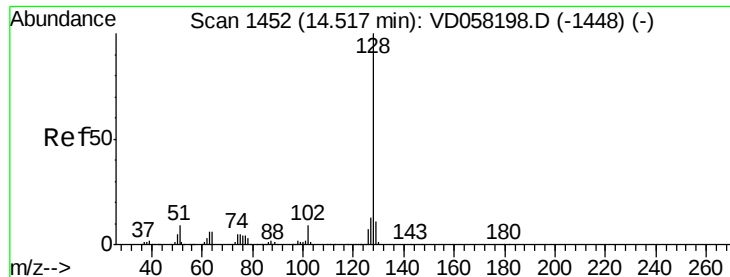
#94
 Hexachlorobutadiene
 Concen: 20.353 ug/l
 RT: 14.43 min Scan# 1443
 Delta R.T. -0.00 min
 Lab File: VD058319.D
 Acq: 23 Jun 2018 3:48

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.1	30.1	90.3
227	61.6	33.0	98.9



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: 21.920 ug/l

RT: 14.51 min Scan# 1451

Delta R.T. -0.00 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

Instrument :

MSVOA_D

ClientSampleId :

VD0622SBSD02

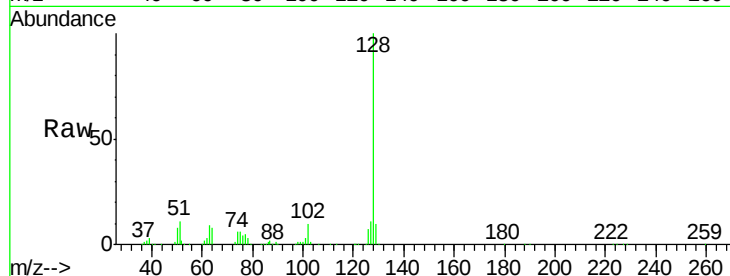
Tot Ion:128 Resp: 371012

Ion Ratio Lower Upper

128 100

127 11.4 10.0 15.0

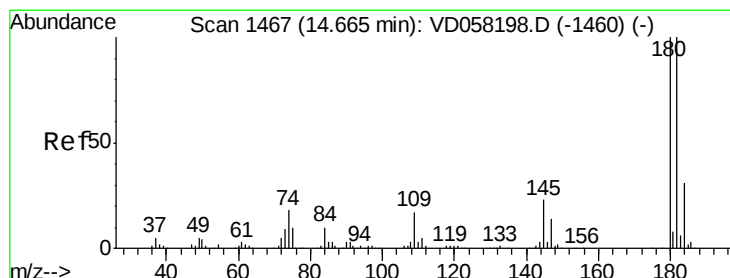
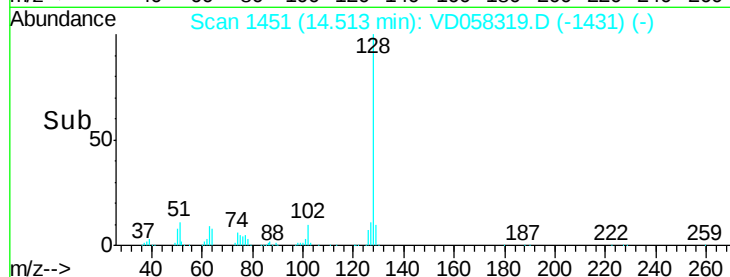
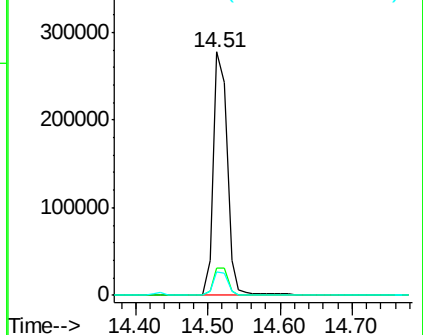
129 9.7 8.7 13.1



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: 21.058 ug/l

RT: 14.66 min Scan# 1466

Delta R.T. -0.00 min

Lab File: VD058319.D

Acq: 23 Jun 2018 3:48

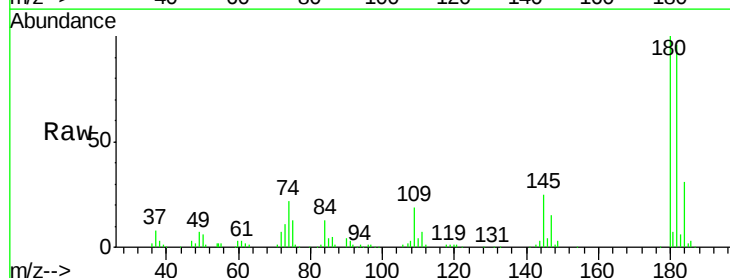
Tgt Ion:180 Resp: 236878

Ion Ratio Lower Upper

180 100

182 96.1 49.9 149.6

145 25.1 11.7 35.1



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

