

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD042319\
 Data File : VD061986.D
 Acq On : 24 Apr 2019 1:59
 Operator : VA/AP
 Sample : VD0423SBS02
 Misc : 5.23g/5ml/MSVOA D/SOIL
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0423SBS02

Quant Time: Apr 24 03:53:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D042319S.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 23 14:52:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	533909	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.23	114	874961	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	810949	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.53	152	375405	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	255708	61.19	ug/l	0.00
Spiked Amount			Recovery	=	122.38%	
35) Dibromofluoromethane	6.94	113	363410	60.06	ug/l	0.00
Spiked Amount			Recovery	=	120.12%	
50) Toluene-d8	10.42	98	842253	58.49	ug/l	0.00
Spiked Amount			Recovery	=	116.98%	
62) 4-Bromofluorobenzene	13.57	95	354053	61.31	ug/l	0.00
Spiked Amount			Recovery	=	122.62%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	77771	16.313	ug/l	100
3) Chloromethane	1.76	50	74490	18.384	ug/l	100
4) Vinyl Chloride	1.85	62	68230	18.578	ug/l	98
5) Bromomethane	2.16	94	17714	15.797	ug/l	95
6) Chloroethane	2.25	64	18973	14.292	ug/l	92
7) Trichlorofluoromethane	2.53	101	110147	19.836	ug/l	99
8) Diethyl Ether	2.88	74	31026	20.847	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	3.16	101	98336	19.224	ug/l	96
10) Methyl Iodide	3.32	142	130360	20.340	ug/l	95
11) Tert butyl alcohol	4.08	59	27462	116.317	ug/l	100
12) 1,1-Dichloroethene	3.14	96	81608	18.752	ug/l	95
13) Acrolein	3.05	56	28324	115.624	ug/l	95
14) Allyl chloride	3.63	41	114009	19.185	ug/l	93
15) Acrylonitrile	4.21	53	82886	113.374	ug/l	94
16) Acetone	3.24	43	88305	88.505	ug/l	100
17) Carbon Disulfide	3.39	76	234596	18.655	ug/l	98
18) Methyl Acetate	3.65	43	48610	25.818	ug/l	98
19) Methyl tert-butyl Ether	4.25	73	191661	22.196	ug/l	98
20) Methylene Chloride	3.83	84	105032	19.691	ug/l	97
21) trans-1,2-Dichloroethene	4.23	96	96847	19.399	ug/l	98
22) Diisopropyl ether	5.14	45	277728	20.018	ug/l	98
23) Vinyl Acetate	5.07	43	744986	103.109	ug/l	100
24) 1,1-Dichloroethane	5.01	63	160631	19.155	ug/l	99
25) 2-Butanone	6.08	43	145328	120.137	ug/l	98
26) 2,2-Dichloropropane	6.03	77	137571	18.805	ug/l	98
27) cis-1,2-Dichloroethene	6.05	96	127974	22.533	ug/l	100
28) Bromochloromethane	6.45	49	74890	23.340	ug/l	84
29) Tetrahydrofuran	6.48	42	71251	119.540	ug/l	98
30) Chloroform	6.68	83	200970	21.100	ug/l	96
31) Cyclohexane	6.97	56	114399	18.379	ug/l	99
32) 1,1,1-Trichloroethane	6.89	97	166526	20.094	ug/l	100
36) 1,1-Dichloropropene	7.17	75	140258	20.575	ug/l	98
37) Ethyl Acetate	6.19	43	72377	24.915	ug/l #	91
38) Carbon Tetrachloride	7.13	117	164386	19.030	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.88	83	132382	19.683	ug/l	98
40) Benzene	7.47	78	345031	20.445	ug/l	94
41) Methacrylonitrile	6.46	41	82959	24.476	ug/l #	93
42) 1,2-Dichloroethane	7.59	62	124762	21.773	ug/l	97
43) Isopropyl Acetate	9.25	43	98610	23.233	ug/l	97
44) Trichloroethene	8.55	130	129867	19.849	ug/l	92
45) 1,2-Dichloropropane	8.96	63	89759	20.965	ug/l	97
46) Dibromomethane	9.08	93	71898	23.338	ug/l	97
47) Bromodichloromethane	9.39	83	154838	21.271	ug/l #	95
48) Methyl methacrylate	9.14	41	55807	23.045	ug/l	96
49) 1,4-Dioxane	9.10	88	12664	485.043	ug/l	97
51) 4-Methyl-2-Pentanone	10.32	43	311669	120.069	ug/l	94
52) Toluene	10.52	92	217020	20.168	ug/l	97
53) t-1,3-Dichloropropene	10.93	75	137748	22.545	ug/l	99
54) cis-1,3-Dichloropropene	10.05	75	147508	19.850	ug/l	95
55) 1,1,2-Trichloroethane	11.20	97	84981	23.524	ug/l	98
56) Ethyl methacrylate	11.06	69	92380	23.089	ug/l	98
57) 1,3-Dichloropropane	11.42	76	115133	20.635	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.87	63	236970	127.389	ug/l	95
59) 2-Hexanone	11.55	43	233350	119.840	ug/l	98
60) Dibromochloromethane	11.69	129	127944	21.405	ug/l	98
61) 1,2-Dibromoethane	11.81	107	99161	23.139	ug/l	98
64) Tetrachloroethene	11.27	164	111584	19.289	ug/l	99
65) Chlorobenzene	12.41	112	284396	18.559	ug/l	99
66) 1,1,1,2-Tetrachloroethane	12.52	131	122475	18.842	ug/l	99
67) Ethyl Benzene	12.53	91	460811	18.424	ug/l	98
68) m/p-Xylenes	12.67	106	331997	36.726	ug/l	99
69) o-Xylene	13.05	106	147251	17.803	ug/l	90
70) Styrene	13.08	104	243971	17.083	ug/l	96
71) Bromoform	13.24	173	76708	20.699	ug/l	99
73) Isopropylbenzene	13.41	105	481167	19.214	ug/l	99
74) N-amyl acetate	13.27	43	136574	21.177	ug/l	99
75) 1,1,2,2-Tetrachloroethane	13.70	83	93989	19.153	ug/l	99
76) 1,2,3-Trichloropropane	13.74	75	97192	20.388	ug/l	98
77) Bromobenzene	13.68	156	123995	17.260	ug/l	94
78) n-propylbenzene	13.78	91	571378	19.931	ug/l	100
79) 2-Chlorotoluene	13.85	91	308332	17.757	ug/l	99
80) 1,3,5-Trimethylbenzene	13.94	105	361787	18.119	ug/l	99
81) trans-1,4-Dichloro-2-buten	13.49	75	26875	18.604	ug/l	93
82) 4-Chlorotoluene	13.96	91	341024	17.833	ug/l	99
83) tert-Butylbenzene	14.20	119	436604	18.875	ug/l	99
84) 1,2,4-Trimethylbenzene	14.24	105	364152	19.100	ug/l	100
85) sec-Butylbenzene	14.37	105	461831	18.478	ug/l	99
86) p-Isopropyltoluene	14.50	119	390122	17.441	ug/l	99
87) 1,3-Dichlorobenzene	14.46	146	223986	17.805	ug/l	99
88) 1,4-Dichlorobenzene	14.55	146	230197	19.567	ug/l	94
89) n-Butylbenzene	14.81	91	346226	17.241	ug/l	94
90) Hexachloroethane	15.01	117	112128	18.538	ug/l	87
91) 1,2-Dichlorobenzene	14.82	146	196138	18.901	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	15.39	75	13181	19.858	ug/l	86

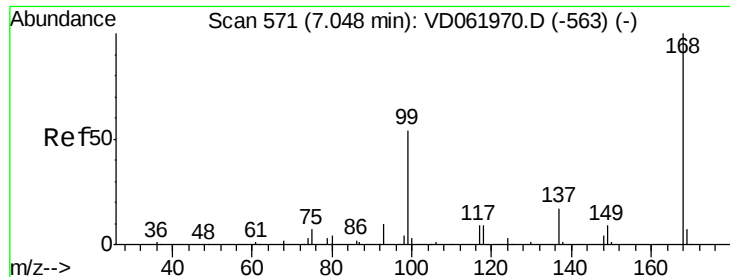
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.95	180	112867	20.158	ug/l	96
94) Hexachlorobutadiene	16.05	225	74294	17.930	ug/l	100
95) Naphthalene	16.13	128	175484	19.411	ug/l	98
96) 1,2,3-Trichlorobenzene	16.28	180	64061	20.165	ug/l	93

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.01 min

Lab File: VD061986.D

Acq: 24 Apr 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

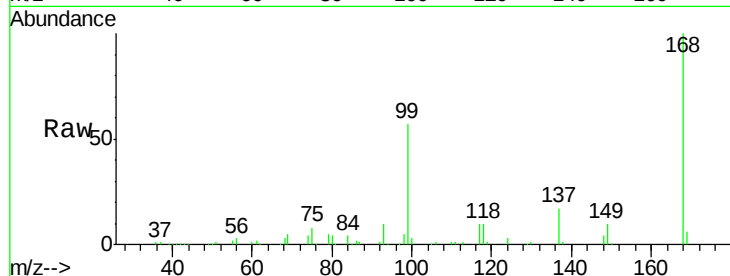
VD0423SBSD02

Tot Ion:168 Resp: 533909

Ion Ratio Lower Upper

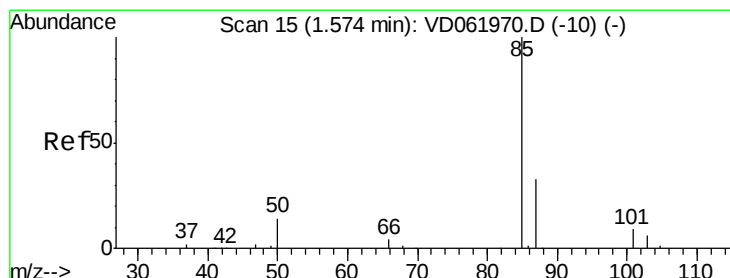
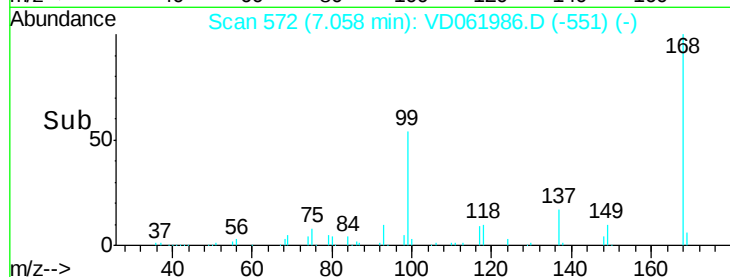
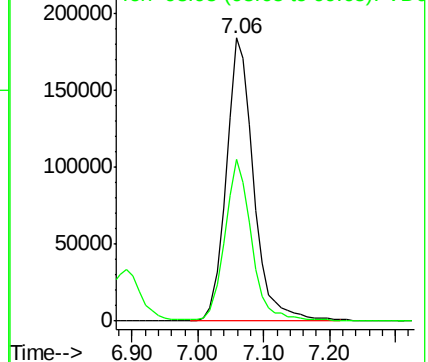
168 100

99 57.2 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 16.313 ug/l

RT: 1.57 min Scan# 15

Delta R.T. -0.01 min

Lab File: VD061986.D

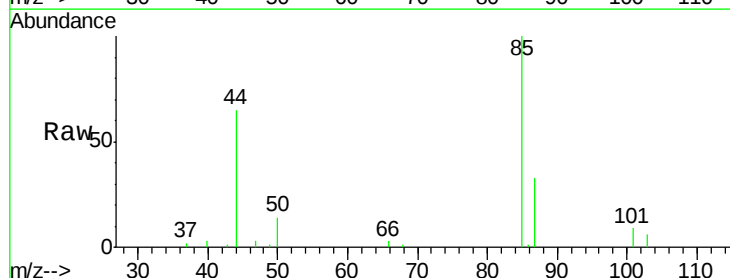
Acq: 24 Apr 2019 1:59

Tgt Ion: 85 Resp: 77771

Ion Ratio Lower Upper

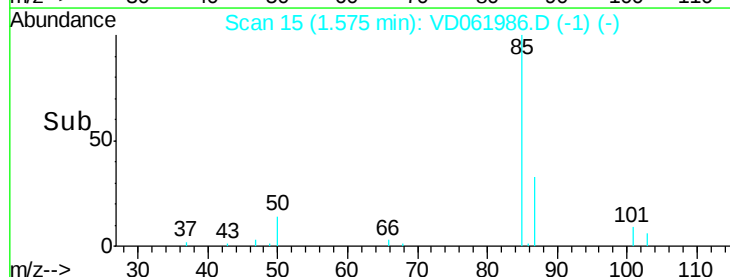
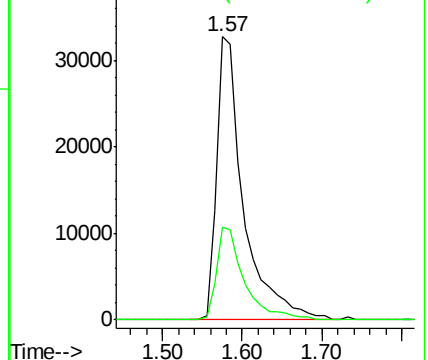
85 100

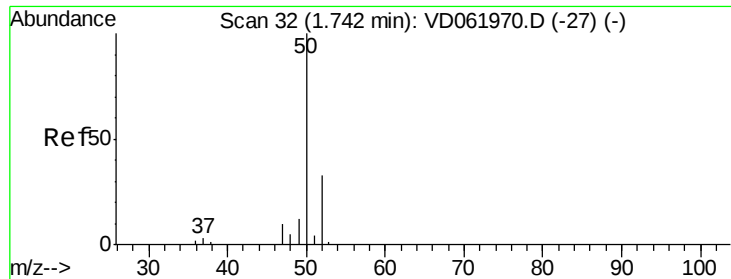
87 32.6 16.2 48.6



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 18.384 ug/l

RT: 1.76 min Scan# 34

Delta R.T. 0.01 min

Lab File: VD061986.D

Acq: 24 Apr 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

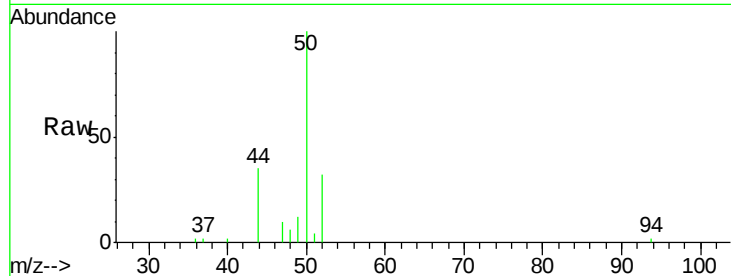
VD0423SBS02

Tot Ion: 50 Resp: 74490

Ion Ratio Lower Upper

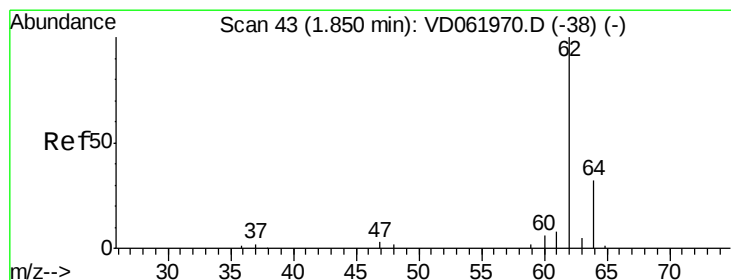
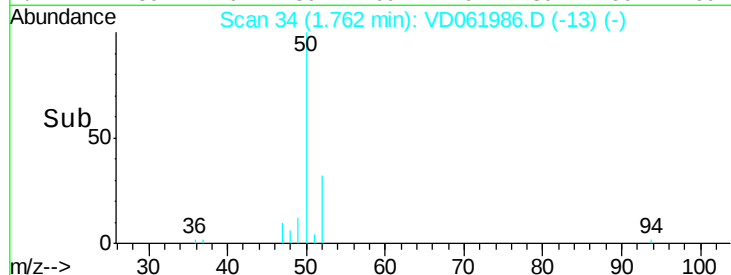
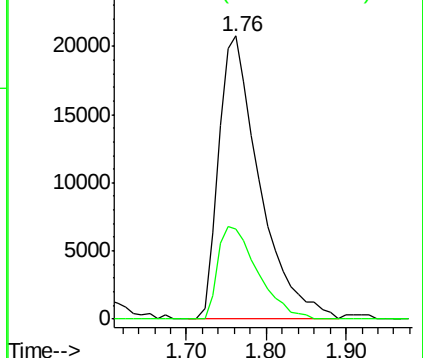
50 100

52 31.7 25.2 37.8



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 18.578 ug/l

RT: 1.85 min Scan# 43

Delta R.T. -0.00 min

Lab File: VD061986.D

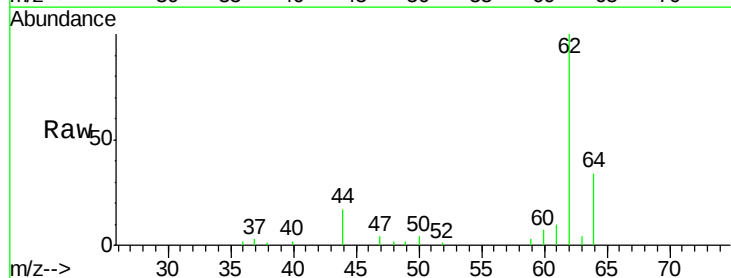
Acq: 24 Apr 2019 1:59

Tgt Ion: 62 Resp: 68230

Ion Ratio Lower Upper

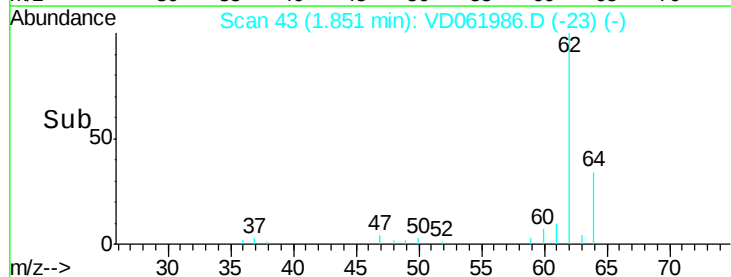
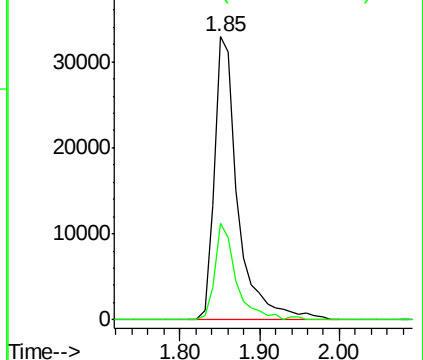
62 100

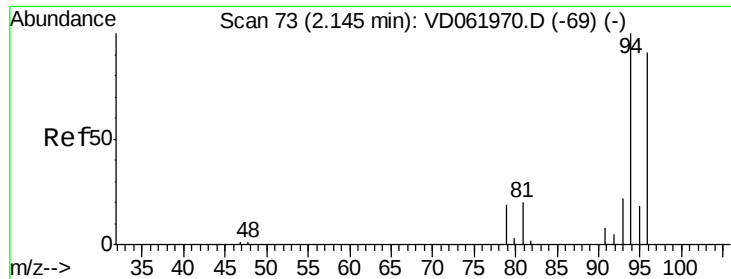
64 34.3 26.5 39.7



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 15.797 ug/l

RT: 2.16 min Scan# 74

Delta R.T. -0.00 min

Lab File: VD061986.D

Acq: 24 Apr 2019 1:59

Instrument :

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ClientSampleId :

VD0423SBSD02

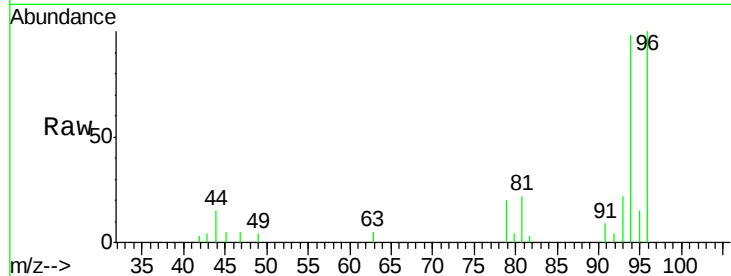
Tot Ion: 94 Resp: 17714

Ion Ratio Lower Upper

94 100

96 102.1 76.6 115.0

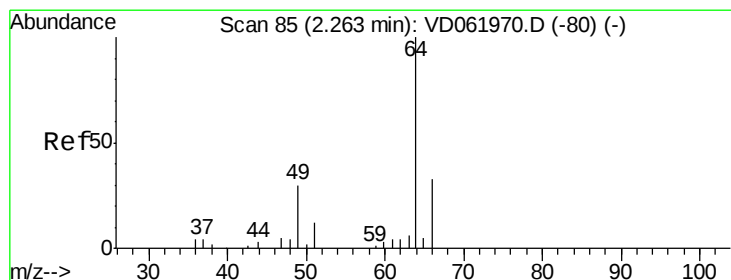
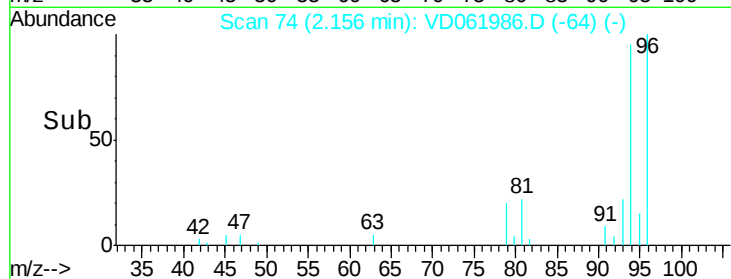
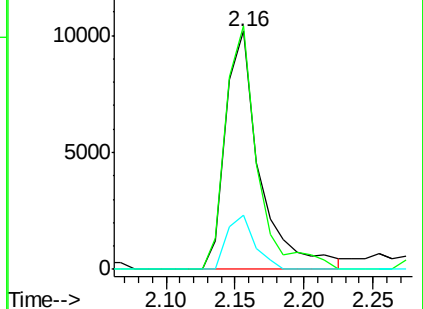
93 22.9 18.5 27.7



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC



#6

Chloroethane

Concen: 14.292 ug/l

RT: 2.25 min Scan# 84

Delta R.T. -0.02 min

Lab File: VD061986.D

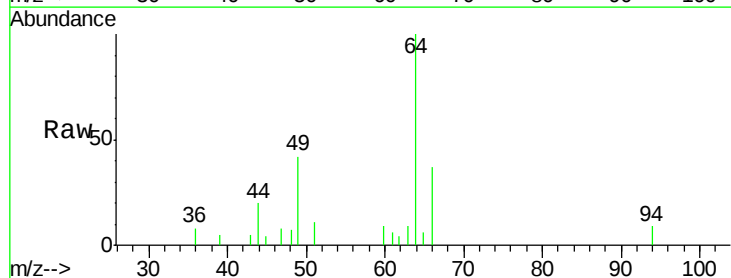
Acq: 24 Apr 2019 1:59

Tgt Ion: 64 Resp: 18973

Ion Ratio Lower Upper

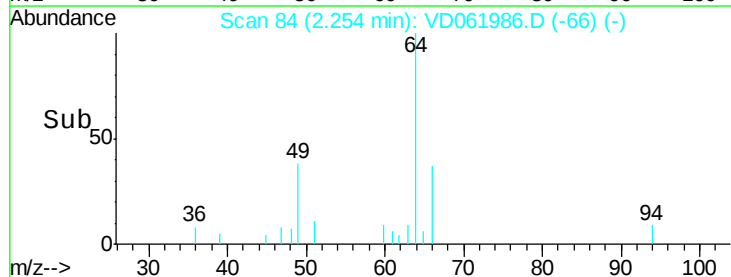
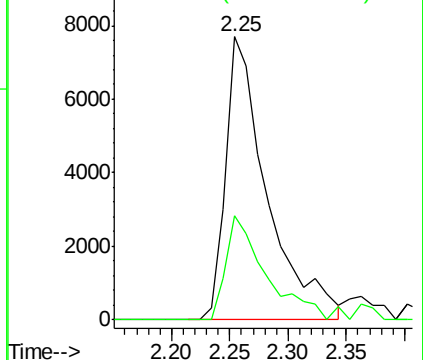
64 100

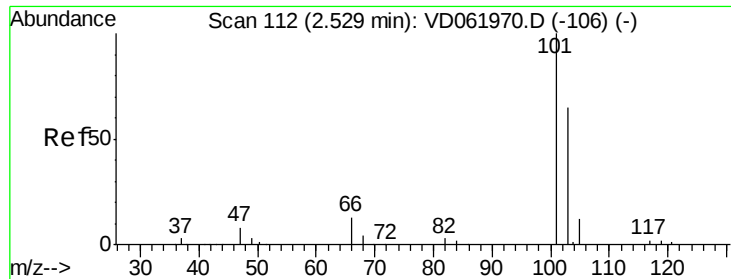
66 36.7 25.6 38.4



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



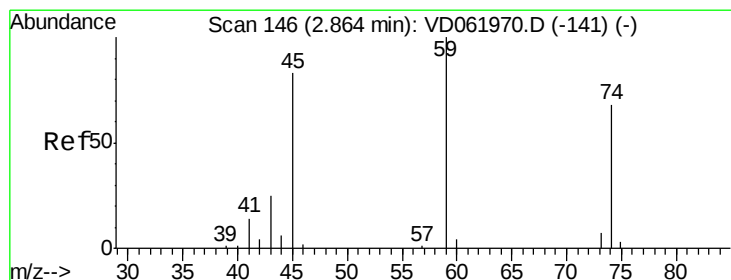
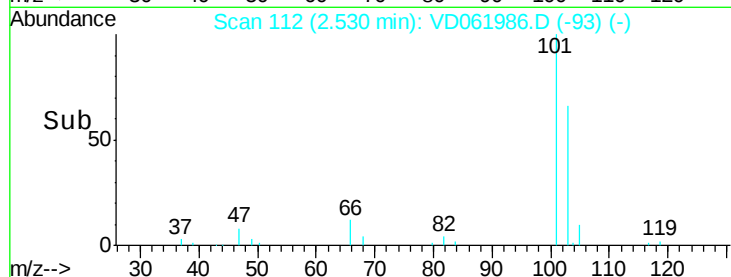
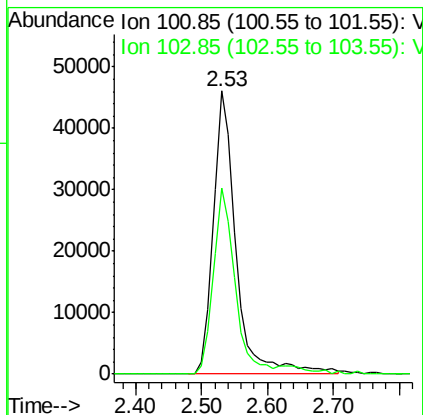
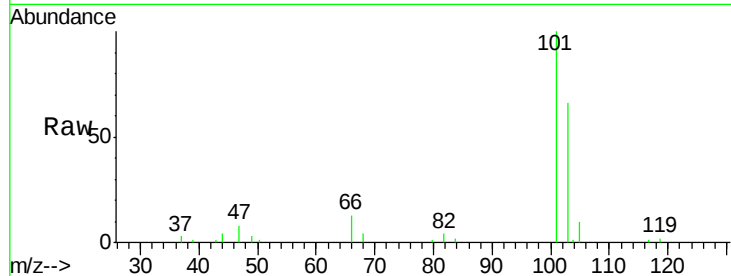


#7

Trichlorofluoromethane
Concen: 19.836 ug/l
RT: 2.53 min Scan# 112
Delta R.T. -0.01 min
Lab File: VD061986.D
Acq: 24 Apr 2019 1:59

Instrument :
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ClientSampleId :
VD0423SBSD02

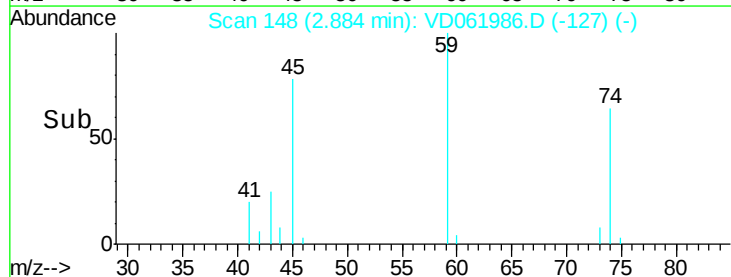
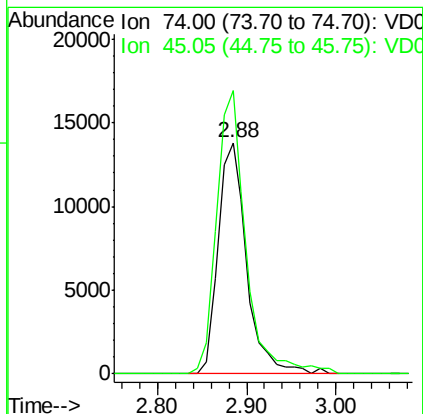
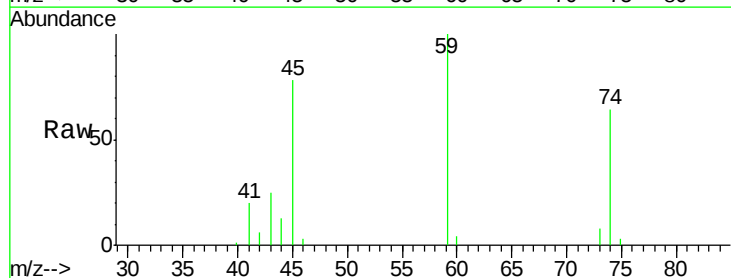
Tot Ion:101 Resp: 110147
Ion Ratio Lower Upper
101 100
103 65.8 53.6 80.4

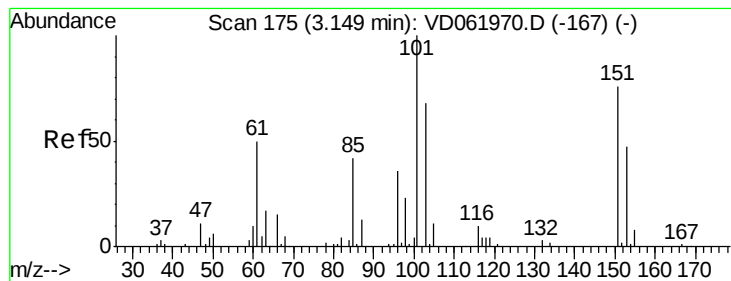


#8

Diethyl Ether
Concen: 20.847 ug/l
RT: 2.88 min Scan# 148
Delta R.T. 0.01 min
Lab File: VD061986.D
Acq: 24 Apr 2019 1:59

Tgt Ion: 74 Resp: 31026
Ion Ratio Lower Upper
74 100
45 122.5 56.9 170.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.224 ug/l

RT: 3.16 min Scan# 176

Delta R.T. -0.00 min

Lab File: VD061986.D

Acq: 24 Apr 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

VD0423SBSD02

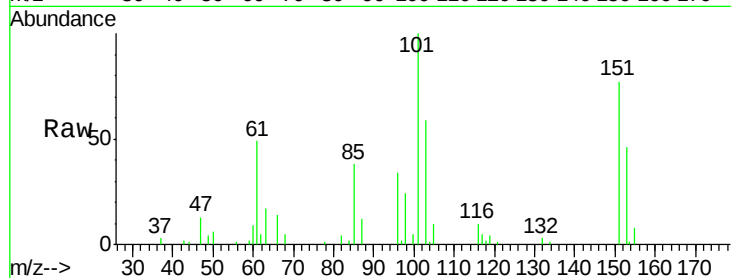
Tot Ion:101 Resp: 98336

Ion Ratio Lower Upper

101 100

85 38.0 32.4 48.6

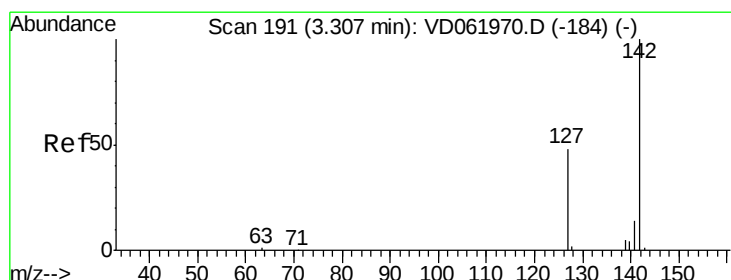
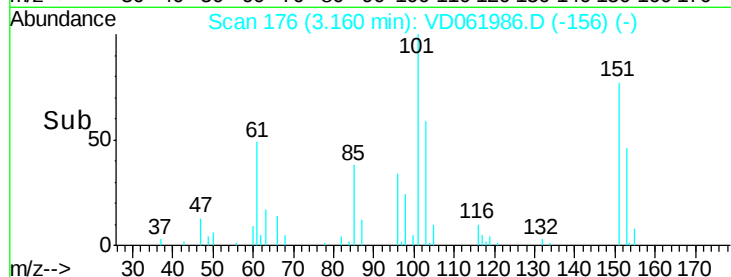
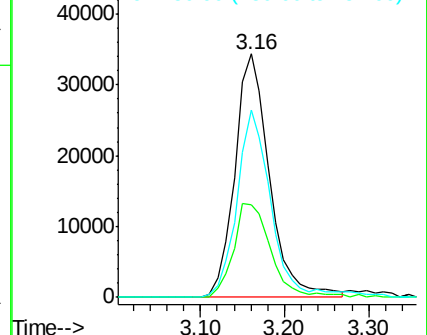
151 77.2 59.4 89.0



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: 20.340 ug/l

RT: 3.32 min Scan# 192

Delta R.T. -0.00 min

Lab File: VD061986.D

Acq: 24 Apr 2019 1:59

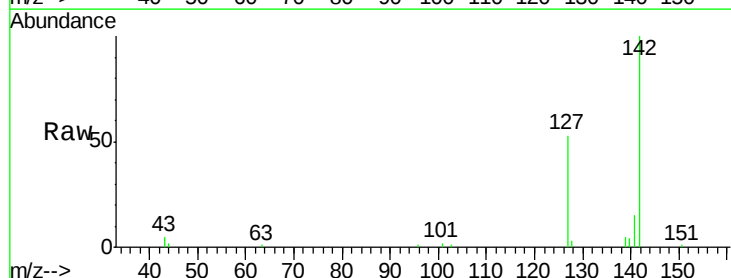
Tgt Ion:142 Resp: 130360

Ion Ratio Lower Upper

142 100

127 52.5 38.8 58.2

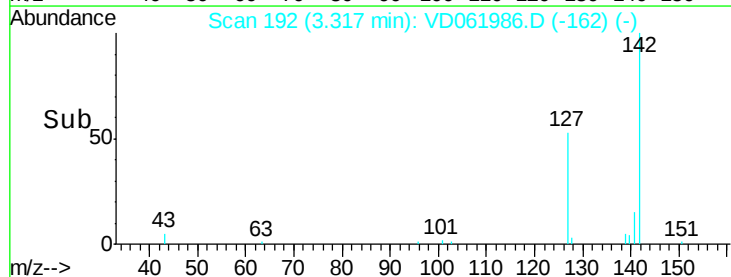
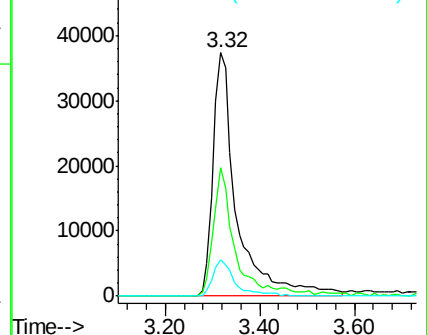
141 14.7 11.4 17.0

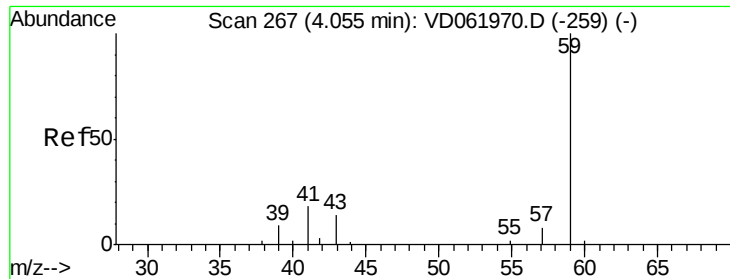


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

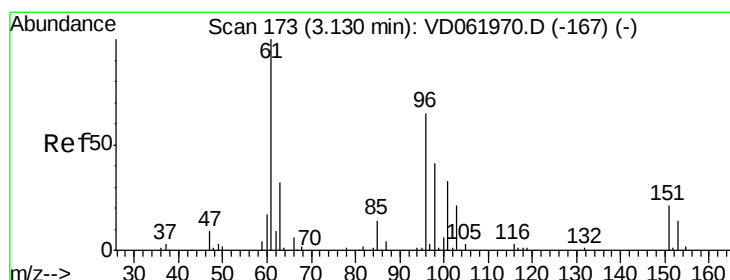
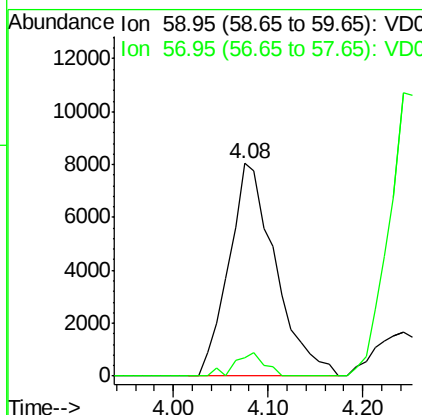
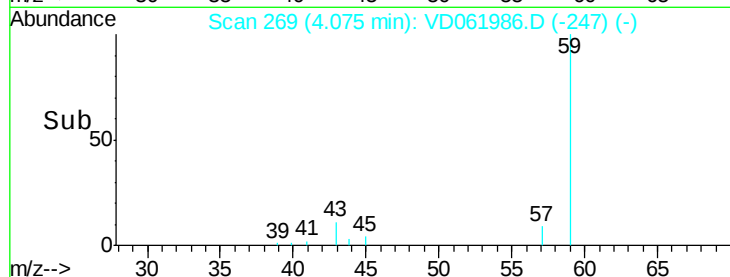
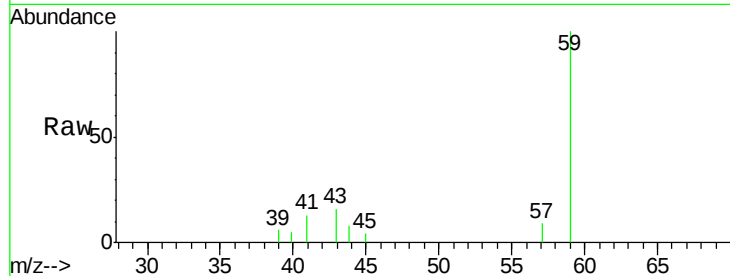




#11
Tert butyl alcohol
Concen: 116.317 ug/l
RT: 4.08 min Scan# 269
Delta R.T. 0.02 min
Lab File: VD061986.D
Acq: 24 Apr 2019 1:59

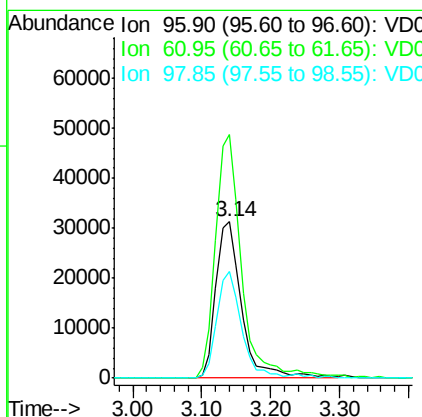
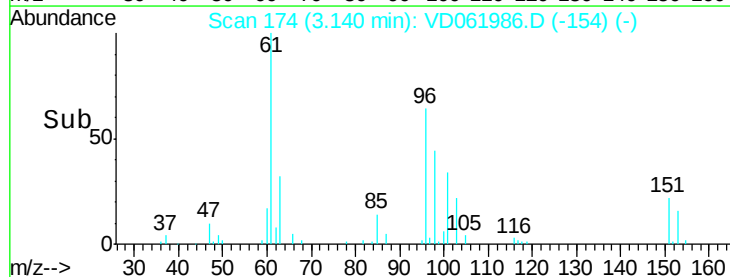
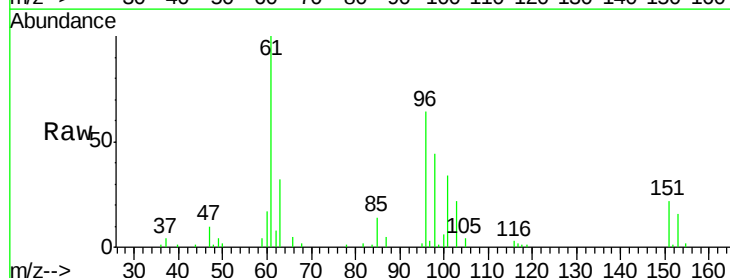
Instrument :
MSVOA_D
ClientSampleId :
VD0423SBSD02

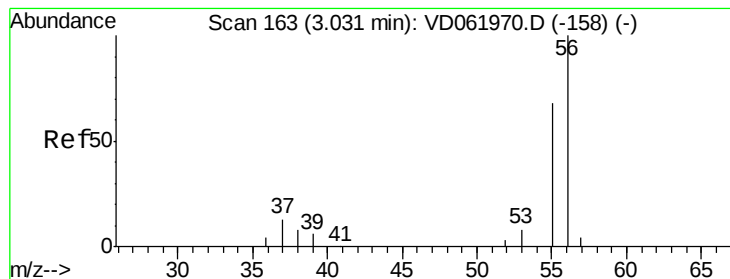
Tot Ion: 59 Resp: 27462
Ion Ratio Lower Upper
59 100
57 8.6 6.9 10.3



#12
1,1-Dichloroethene
Concen: 18.752 ug/l
RT: 3.14 min Scan# 174
Delta R.T. -0.00 min
Lab File: VD061986.D
Acq: 24 Apr 2019 1:59

Tgt Ion: 96 Resp: 81608
Ion Ratio Lower Upper
96 100
61 156.0 129.8 194.8
98 68.5 51.2 76.8





#13

Acrolein

Concen: 115.624 ug/l

RT: 3.05 min Scan# 165

Delta R.T. 0.01 min

Lab File: VD061986.D

Acq: 24 Apr 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

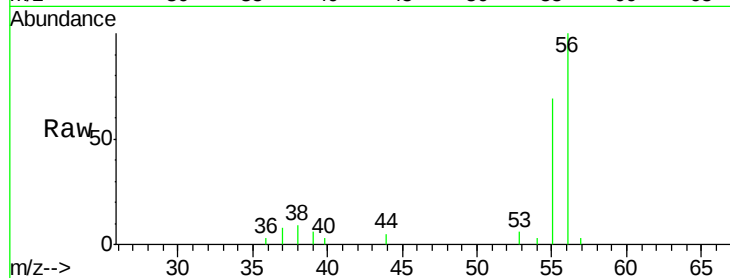
VD0423SBSD02

Tot Ion: 56 Resp: 28324

Ion Ratio Lower Upper

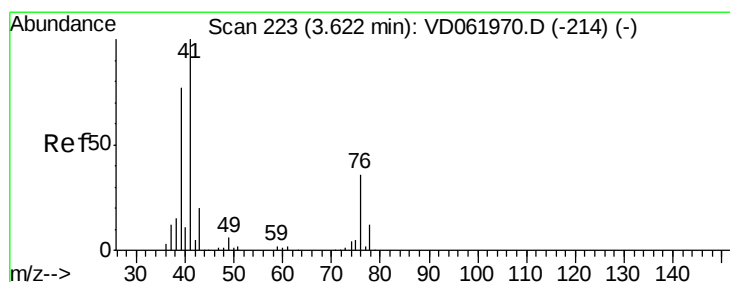
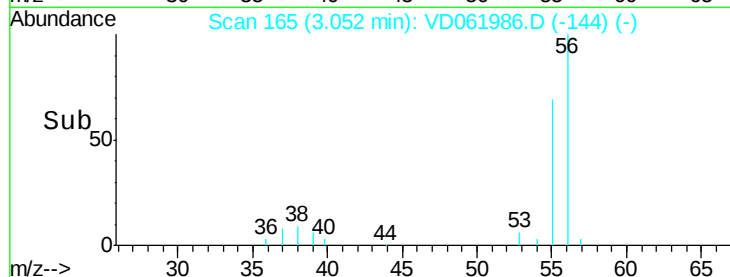
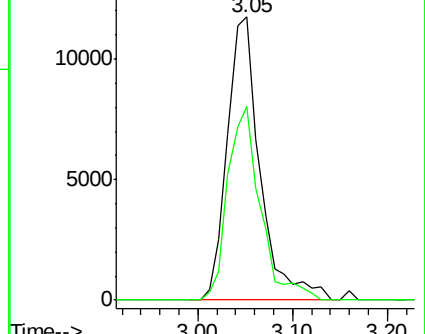
56 100

55 68.6 51.4 77.2



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 19.185 ug/l

RT: 3.63 min Scan# 224

Delta R.T. -0.00 min

Lab File: VD061986.D

Acq: 24 Apr 2019 1:59

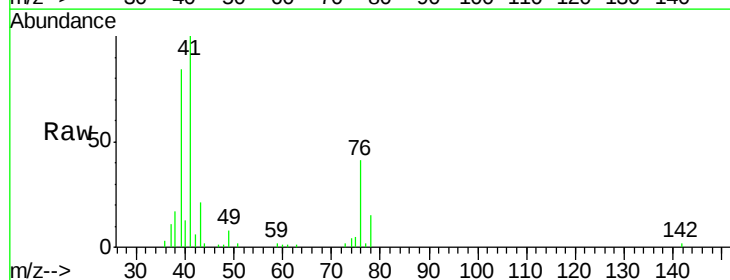
Tgt Ion: 41 Resp: 114009

Ion Ratio Lower Upper

41 100

39 84.0 60.5 90.7

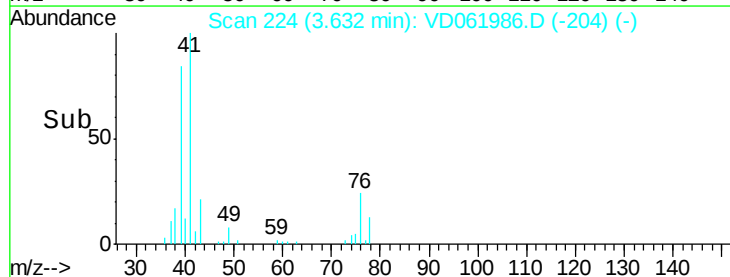
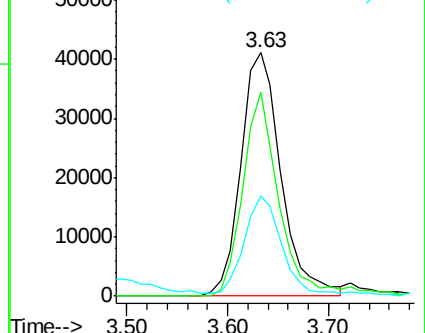
76 41.2 31.8 47.8

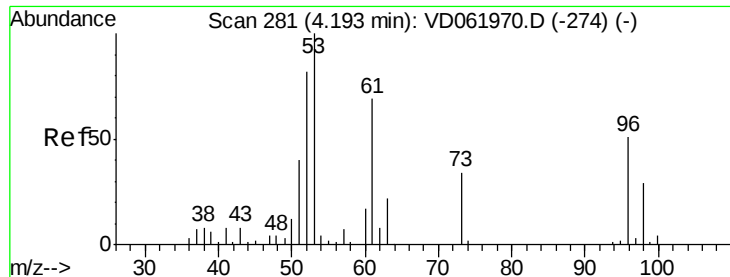


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 113.374 ug/l

RT: 4.21 min Scan# 283

Delta R.T. 0.01 min

Lab File: VD061986.D

Acq: 24 Apr 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

VD0423SBS02

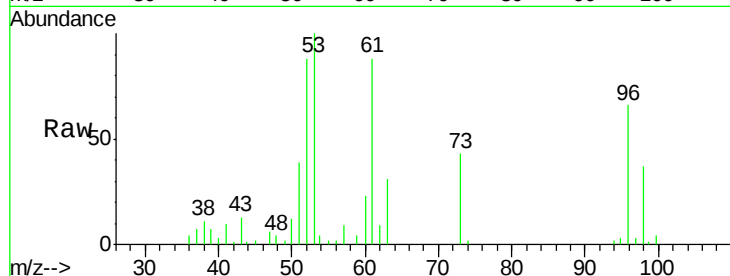
Tot Ion: 53 Resp: 82886

Ion Ratio Lower Upper

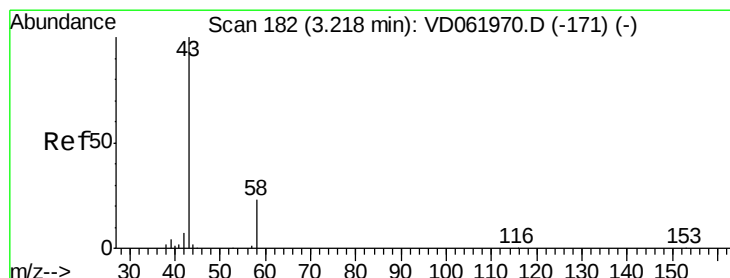
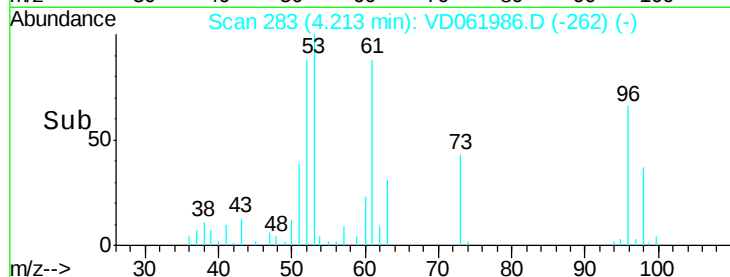
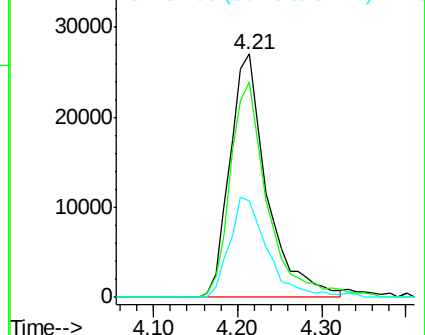
53 100

52 88.3 65.0 97.4

51 39.4 32.6 48.8



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: 88.505 ug/l

RT: 3.24 min Scan# 184

Delta R.T. 0.02 min

Lab File: VD061986.D

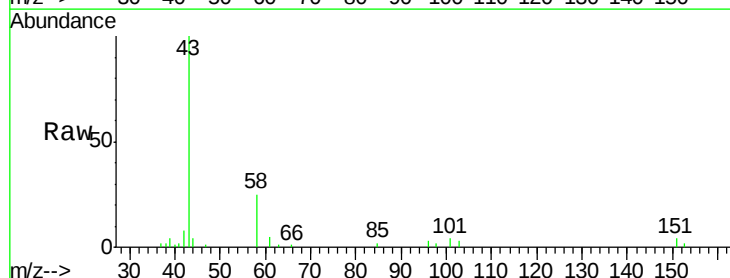
Acq: 24 Apr 2019 1:59

Tgt Ion: 43 Resp: 88305

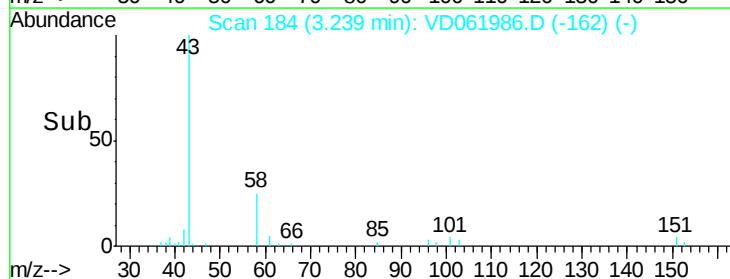
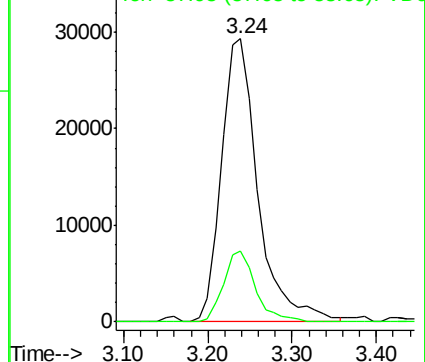
Ion Ratio Lower Upper

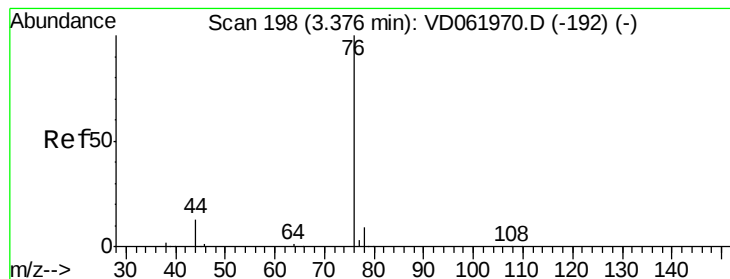
43 100

58 24.9 19.9 29.9



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





#17

Carbon Disulfide

Concen: 18.655 ug/l

RT: 3.39 min Scan# 199

Delta R.T. -0.00 min

Lab File: VD061986.D

Acq: 24 Apr 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

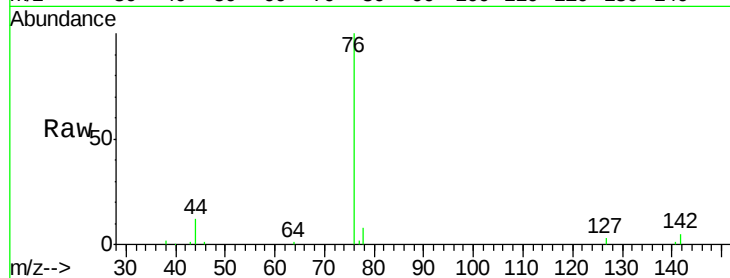
VD0423SBSD02

Tot Ion: 76 Resp: 234596

Ion Ratio Lower Upper

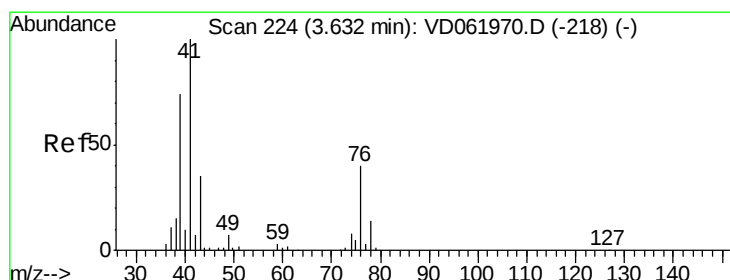
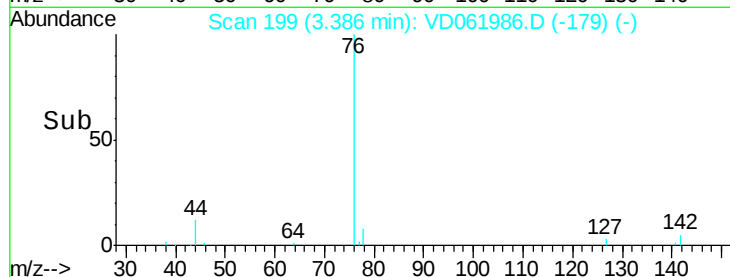
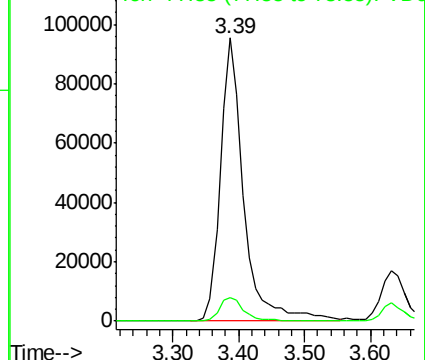
76 100

78 8.2 7.2 10.8



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 25.818 ug/l

RT: 3.65 min Scan# 226

Delta R.T. 0.01 min

Lab File: VD061986.D

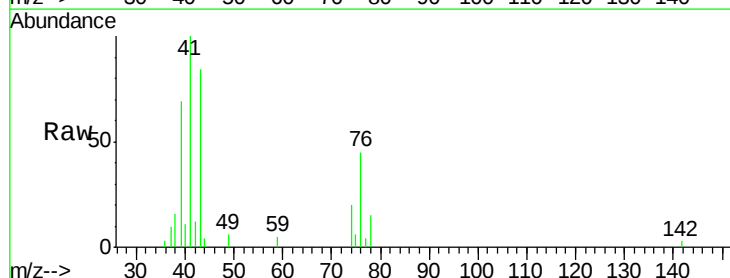
Acq: 24 Apr 2019 1:59

Tgt Ion: 43 Resp: 48610

Ion Ratio Lower Upper

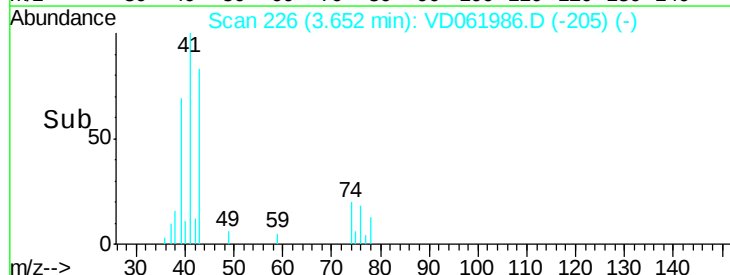
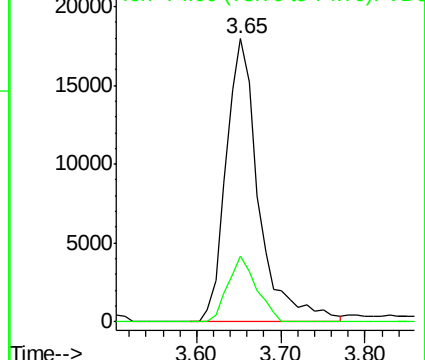
43 100

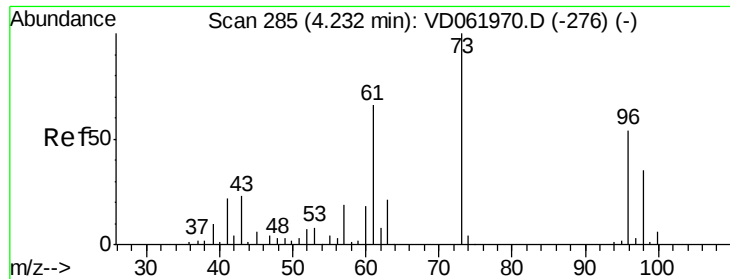
74 23.3 18.0 27.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

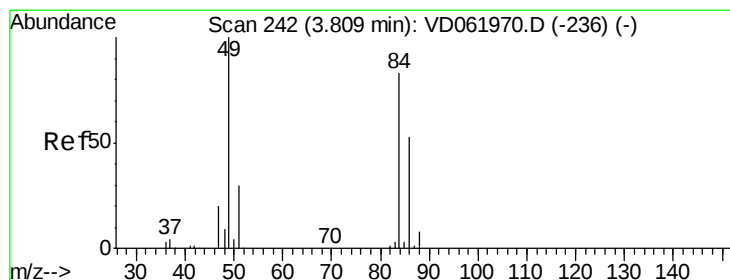
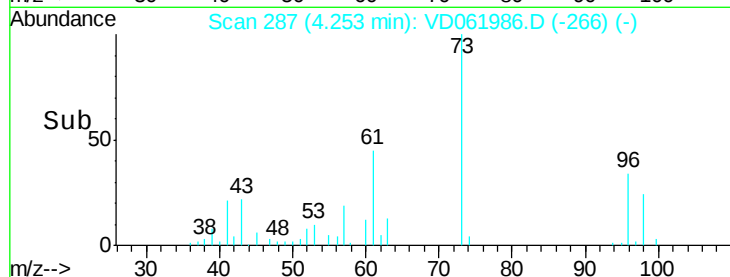
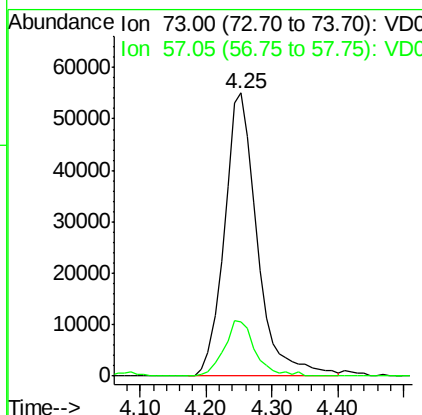
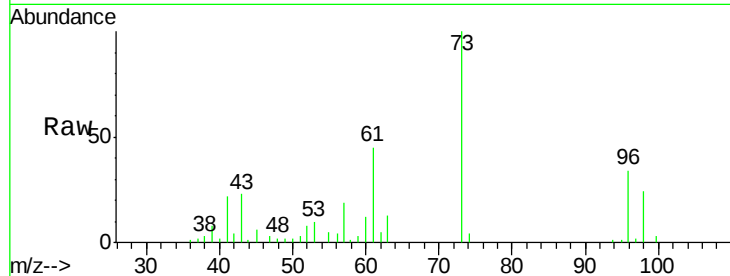




#19
Methyl tert-butyl Ether
Concen: 22.196 ug/l
RT: 4.25 min Scan# 287
Delta R.T. 0.01 min
Lab File: VD061986.D
Acq: 24 Apr 2019 1:59

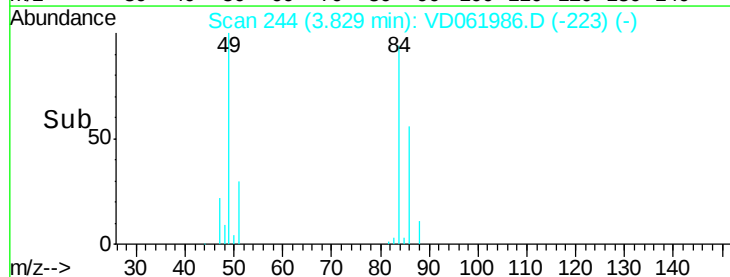
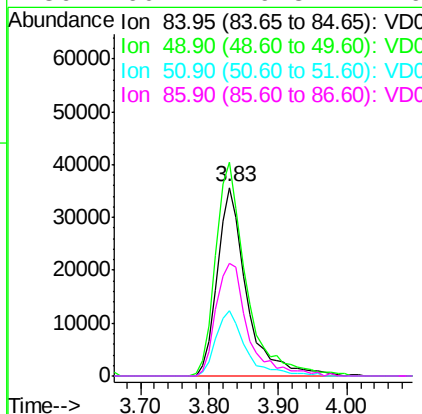
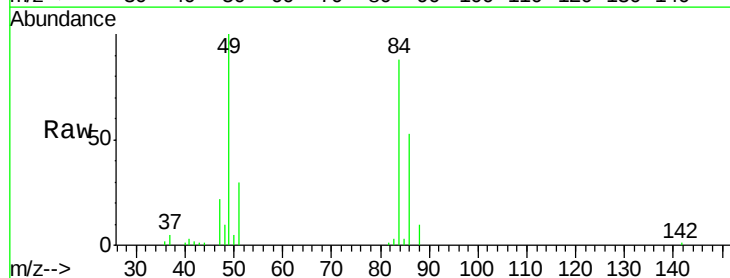
Instrument :
MSVOA_D
ClientSampleId :
VD0423SBS02

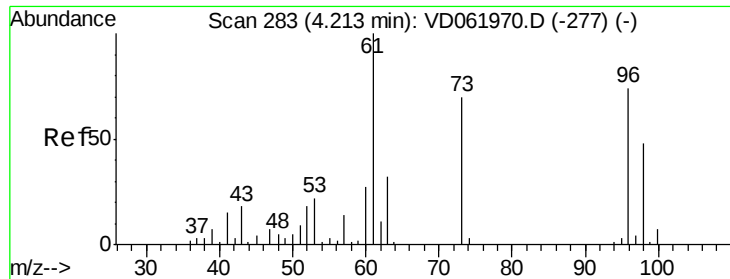
Tot Ion: 73 Resp: 191661
Ion Ratio Lower Upper
73 100
57 19.3 16.3 24.5



#20
Methylene Chloride
Concen: 19.691 ug/l
RT: 3.83 min Scan# 244
Delta R.T. 0.01 min
Lab File: VD061986.D
Acq: 24 Apr 2019 1:59

Tgt Ion: 84 Resp: 105032
Ion Ratio Lower Upper
84 100
49 113.3 94.0 141.0
51 34.4 29.0 43.4
86 60.1 49.8 74.6





#21

trans-1,2-Dichloroethene

Concen: 19.399 ug/l

RT: 4.23 min Scan# 285

Delta R.T. 0.01 min

Lab File: VD061986.D

Acq: 24 Apr 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

VD0423SBSD02

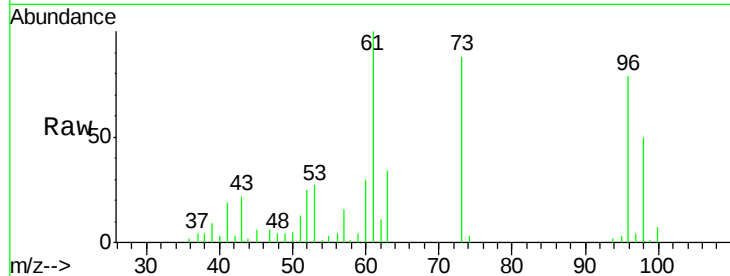
Tot Ion: 96 Resp: 96847

Ion Ratio Lower Upper

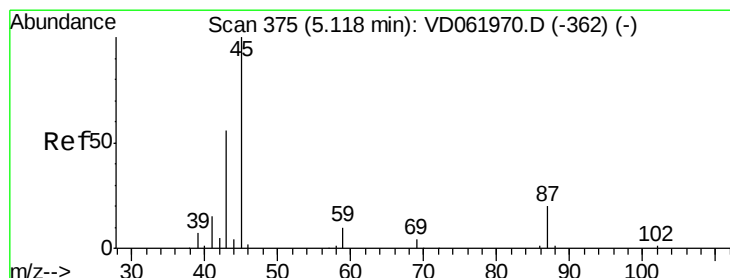
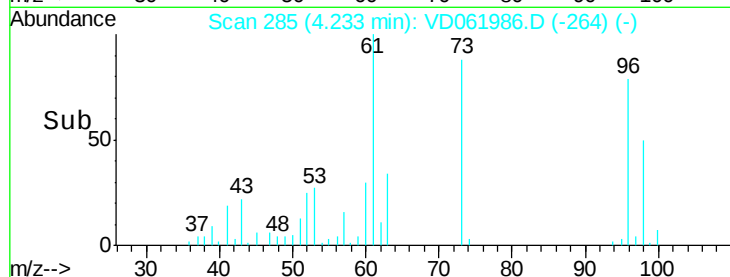
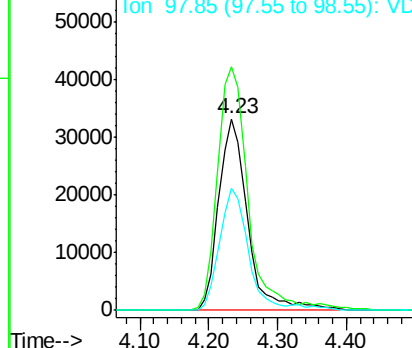
96 100

61 127.3 104.4 156.6

98 64.0 51.8 77.8



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: 20.018 ug/l

RT: 5.14 min Scan# 377

Delta R.T. 0.02 min

Lab File: VD061986.D

Acq: 24 Apr 2019 1:59

Tgt Ion: 45 Resp: 277728

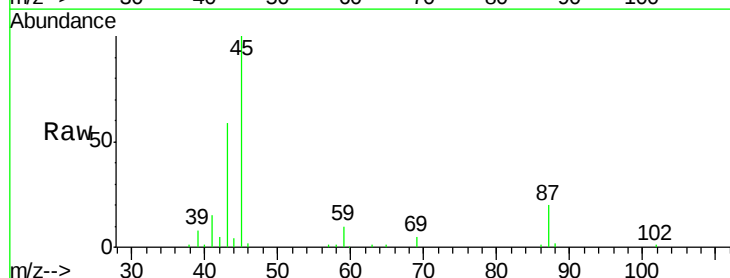
Ion Ratio Lower Upper

45 100

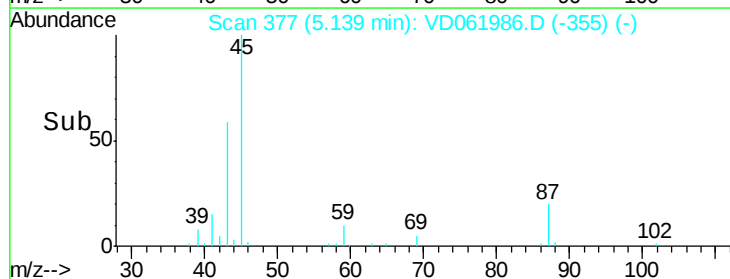
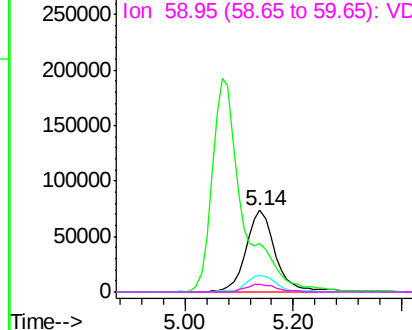
43 59.2 46.2 69.2

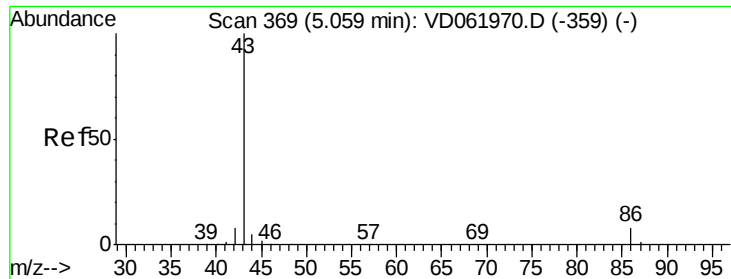
87 20.3 15.9 23.9

59 9.7 7.9 11.9



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





#23

Vinyl Acetate

Concen: 103.109 ug/l

RT: 5.07 min Scan# 370

Delta R.T. 0.01 min

Lab File: VD061986.D

Acq: 24 Apr 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

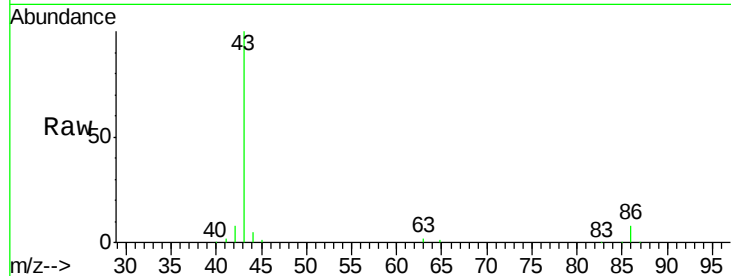
VD0423SBSD02

Tot Ion: 43 Resp: 744986

Ion Ratio Lower Upper

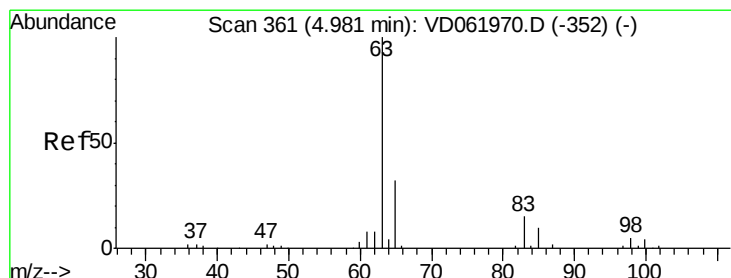
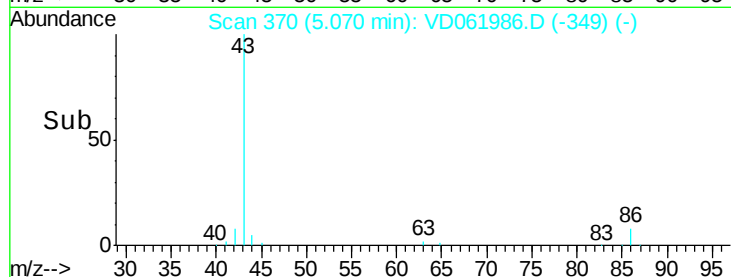
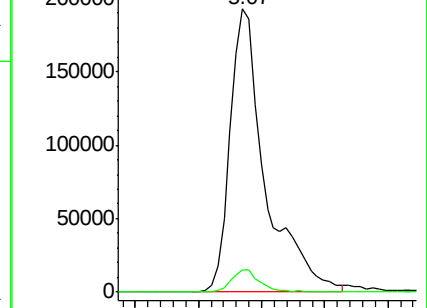
43 100

86 7.9 6.4 9.6



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 19.155 ug/l

RT: 5.01 min Scan# 364

Delta R.T. 0.02 min

Lab File: VD061986.D

Acq: 24 Apr 2019 1:59

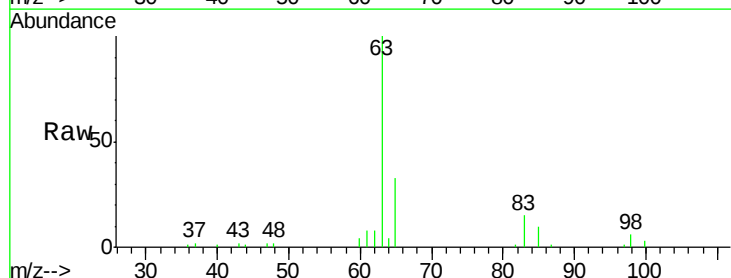
Tgt Ion: 63 Resp: 160631

Ion Ratio Lower Upper

63 100

98 5.7 2.8 8.4

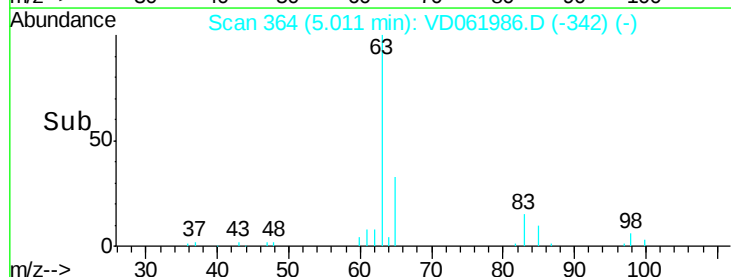
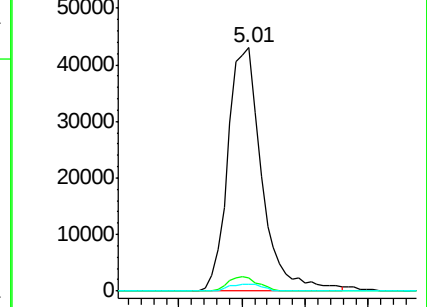
100 3.0 1.8 5.5

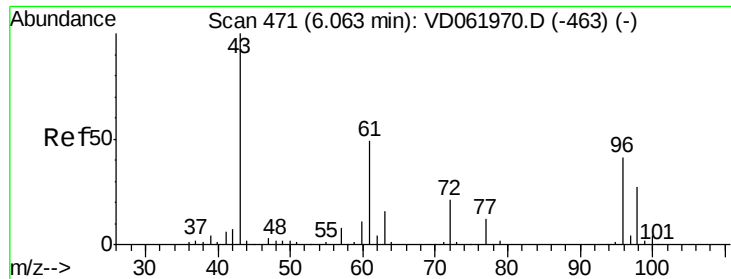


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 120.137 ug/l

RT: 6.08 min Scan# 473

Delta R.T. 0.01 min

Lab File: VD061986.D

Acq: 24 Apr 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

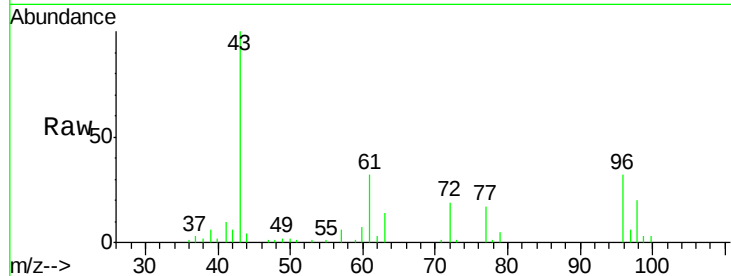
VD0423SBSD02

Tot Ion: 43 Resp: 145328

Ion Ratio Lower Upper

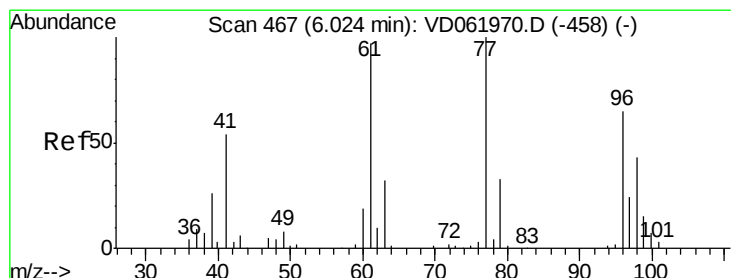
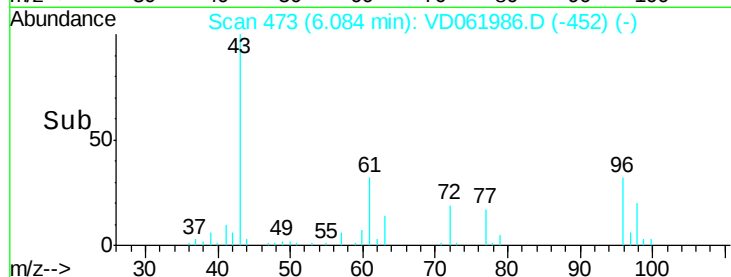
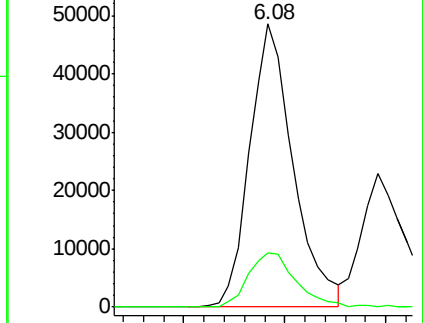
43 100

72 19.4 16.2 24.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 18.805 ug/l

RT: 6.03 min Scan# 468

Delta R.T. 0.01 min

Lab File: VD061986.D

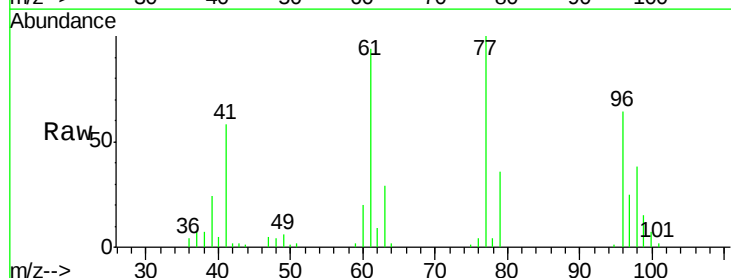
Acq: 24 Apr 2019 1:59

Tgt Ion: 77 Resp: 137571

Ion Ratio Lower Upper

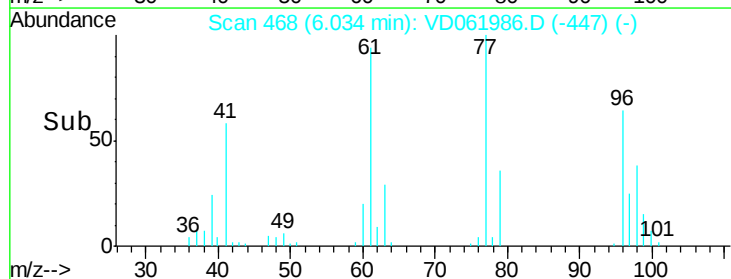
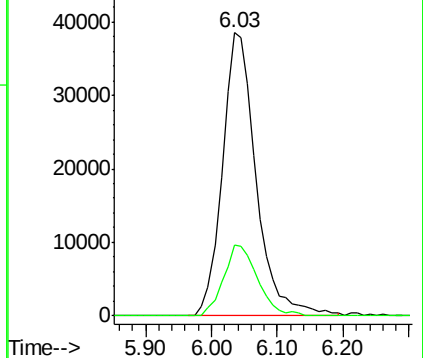
77 100

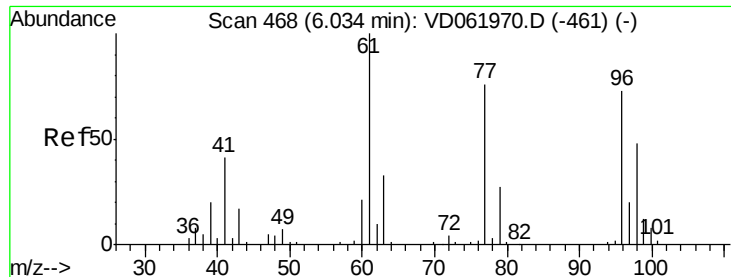
97 24.9 11.9 35.9



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



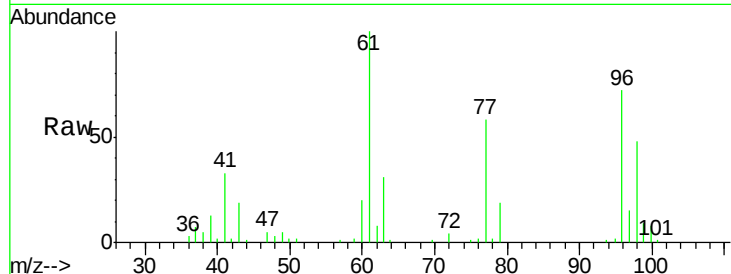


#27

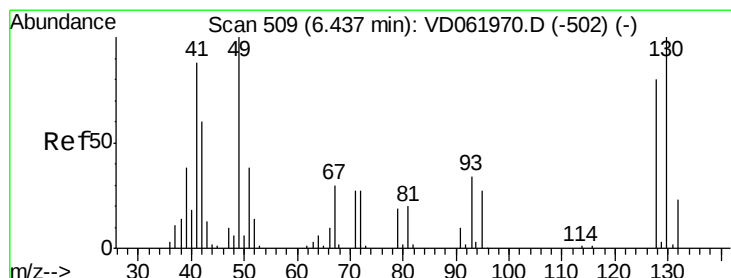
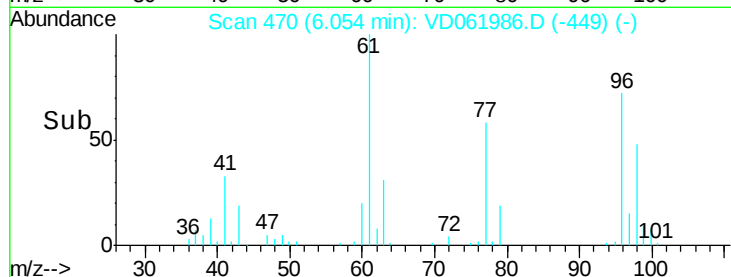
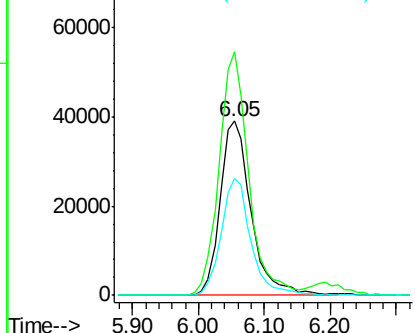
cis-1,2-Dichloroethene
Concen: 22.533 ug/l
RT: 6.05 min Scan# 470
Delta R.T. 0.01 min
Lab File: VD061986.D
Acq: 24 Apr 2019 1:59

Instrument :
MSVOA_D
ClientSampleId :
VD0423SBSD02

Tot Ion: 96 Resp: 127974
Ion Ratio Lower Upper
96 100
61 139.7 0.0 279.8
98 67.3 0.0 136.0



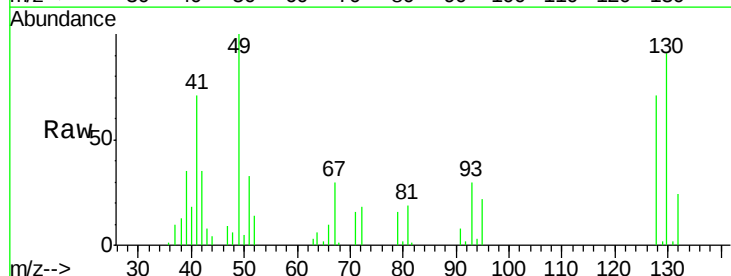
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



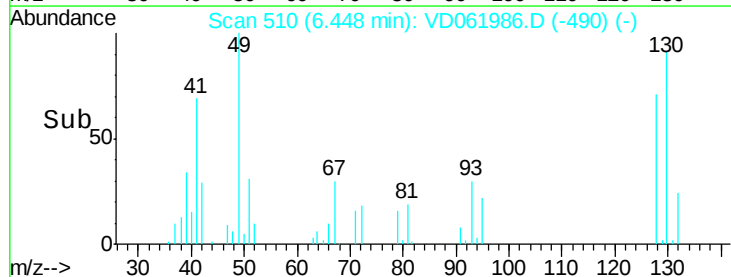
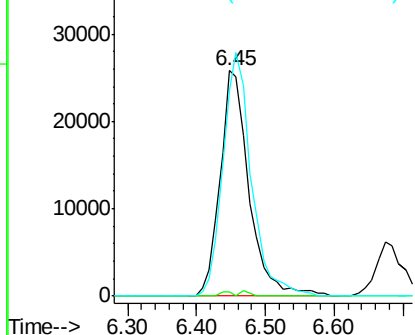
#28

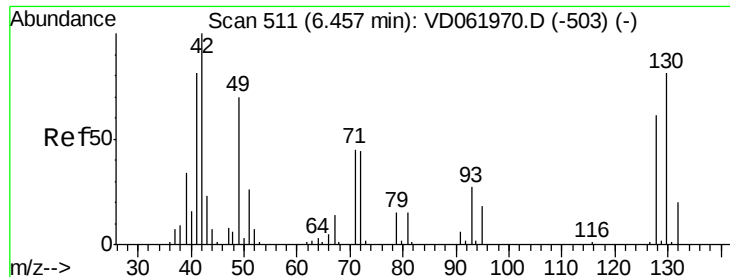
Bromochloromethane
Concen: 23.340 ug/l
RT: 6.45 min Scan# 510
Delta R.T. -0.00 min
Lab File: VD061986.D
Acq: 24 Apr 2019 1:59

Tgt Ion: 49 Resp: 74890
Ion Ratio Lower Upper
49 100
129 2.0 0.0 6.6
130 91.2 86.7 130.1



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





#29

Tetrahydrofuran

Concen: 119.540 ug/l

RT: 6.48 min Scan# 513

Delta R.T. 0.02 min

Lab File: VD061986.D

Acq: 24 Apr 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

VD0423SBS02

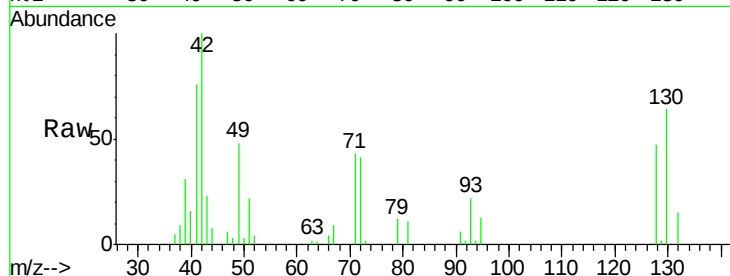
Tot Ion: 42 Resp: 71251

Ion Ratio Lower Upper

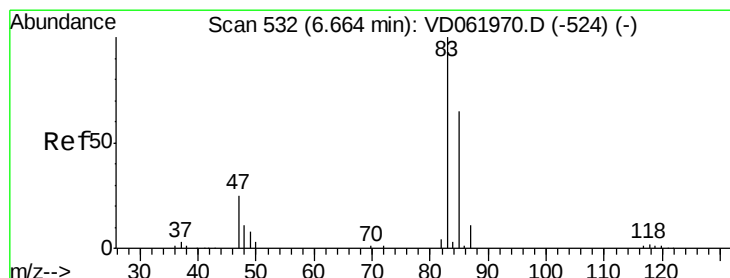
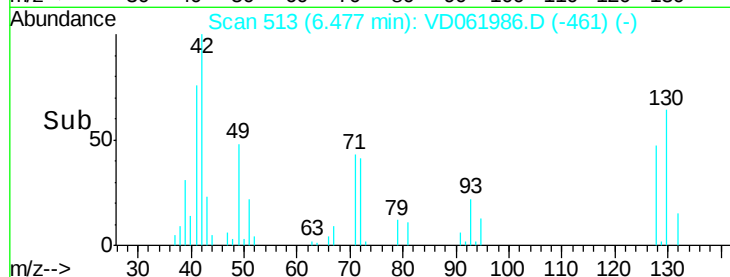
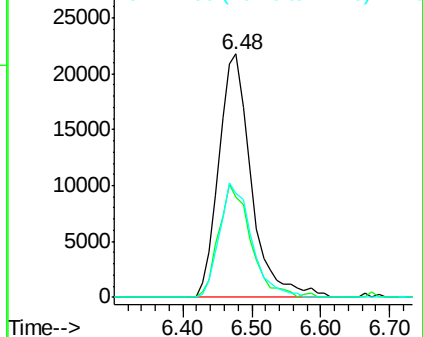
42 100

72 45.3 37.8 56.6

71 46.4 36.7 55.1



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: 21.100 ug/l

RT: 6.68 min Scan# 534

Delta R.T. 0.01 min

Lab File: VD061986.D

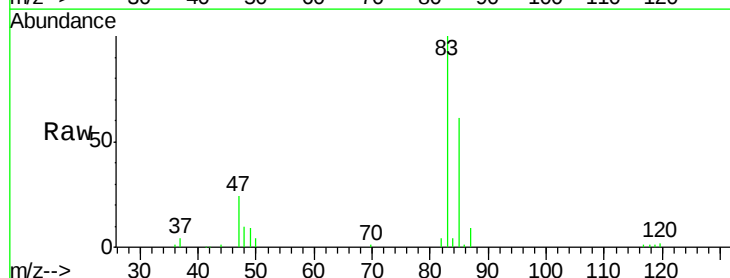
Acq: 24 Apr 2019 1:59

Tgt Ion: 83 Resp: 200970

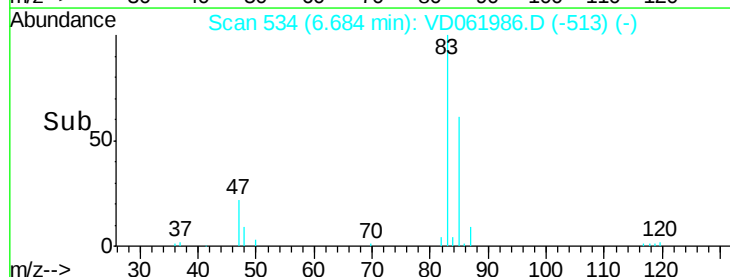
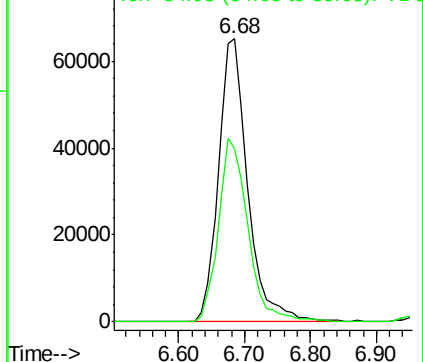
Ion Ratio Lower Upper

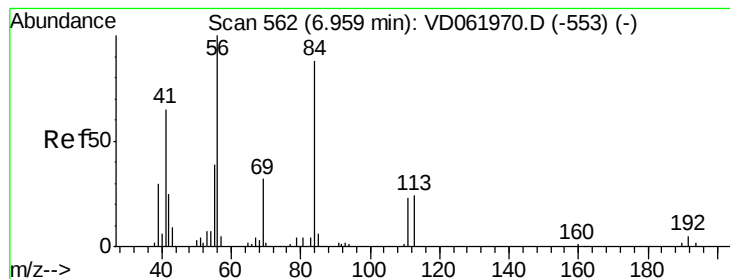
83 100

85 61.4 51.7 77.5



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





#31

Cvclohexane

Concen: 18.379 ug/l

RT: 6.97 min Scan# 563

Delta R.T. 0.01 min

Lab File: VD061986.D

Acq: 24 Apr 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

VD0423SBSD02

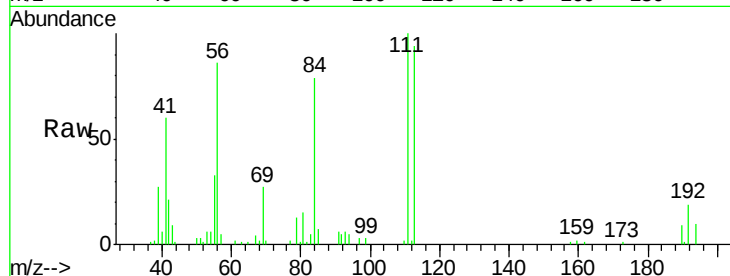
Tot Ion: 56 Resp: 114399

Ion Ratio Lower Upper

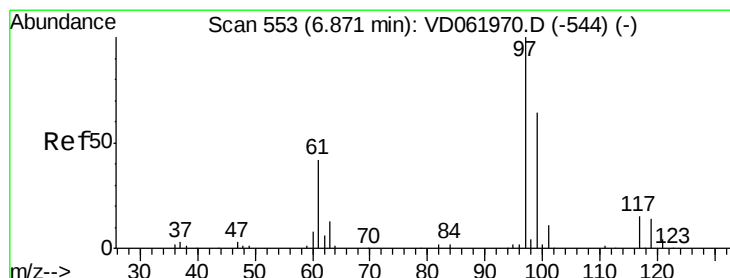
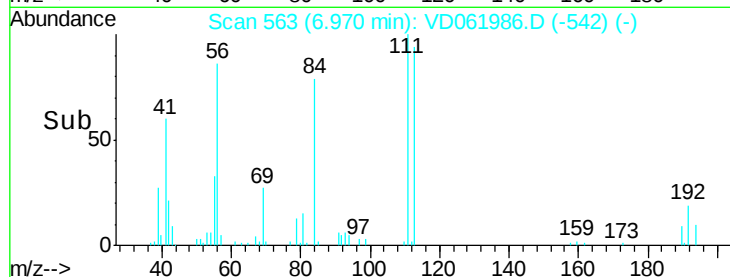
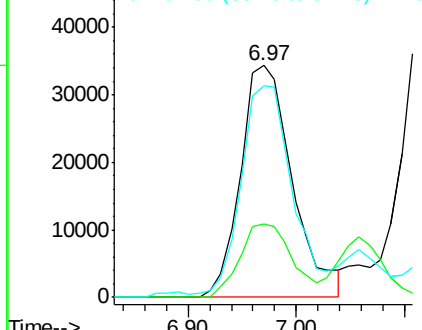
56 100

69 31.7 25.8 38.6

84 91.2 72.2 108.4



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: 20.094 ug/l

RT: 6.89 min Scan# 555

Delta R.T. 0.02 min

Lab File: VD061986.D

Acq: 24 Apr 2019 1:59

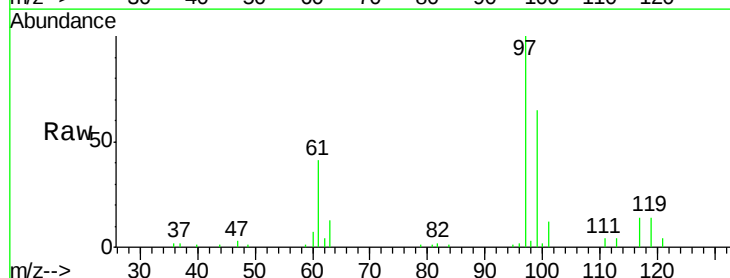
Tgt Ion: 97 Resp: 166526

Ion Ratio Lower Upper

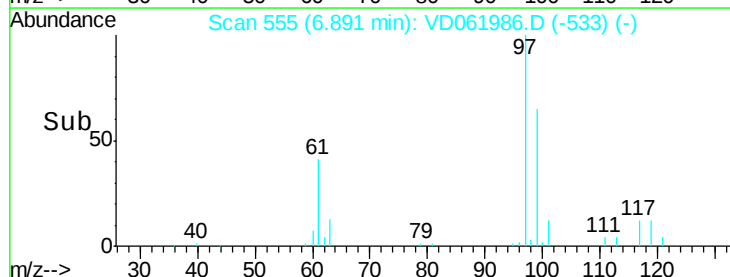
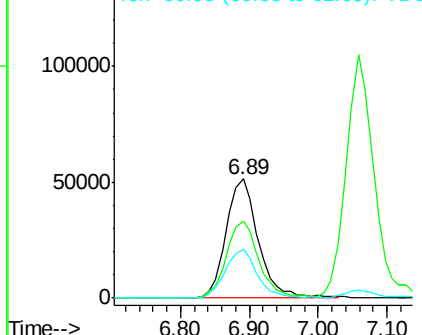
97 100

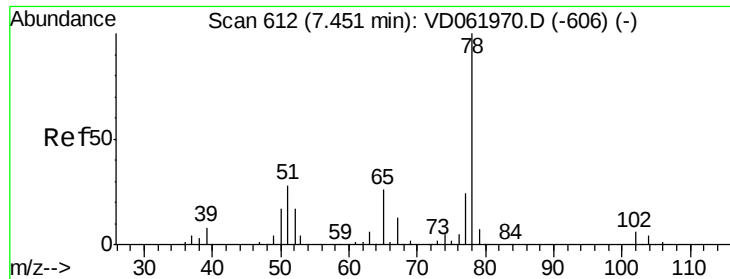
99 65.0 52.2 78.2

61 40.8 32.4 48.6



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: 20.094 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.01 min

Lab File: VD061986.D

Acq: 24 Apr 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

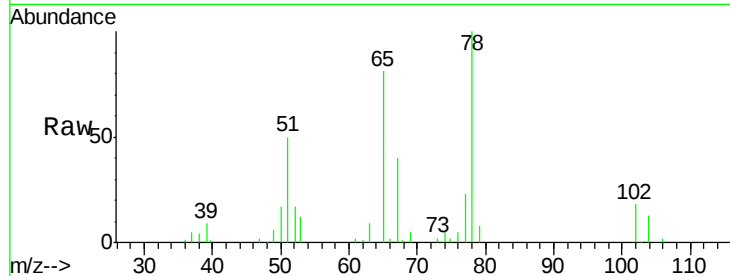
VD0423SBSD02

Tot Ion: 65 Resp: 255708

Ion Ratio Lower Upper

65 100

67 50.0 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.46

80000

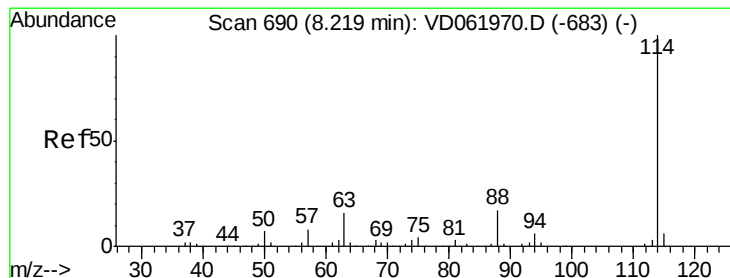
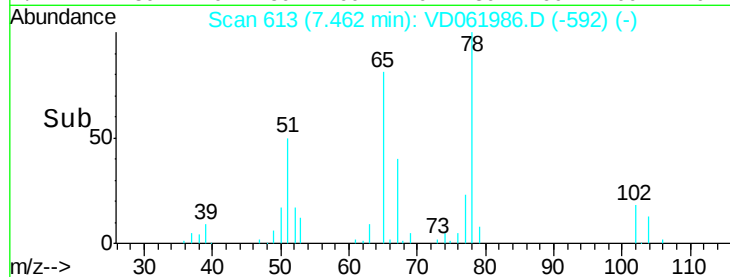
60000

40000

20000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.23 min Scan# 691

Delta R.T. 0.01 min

Lab File: VD061986.D

Acq: 24 Apr 2019 1:59

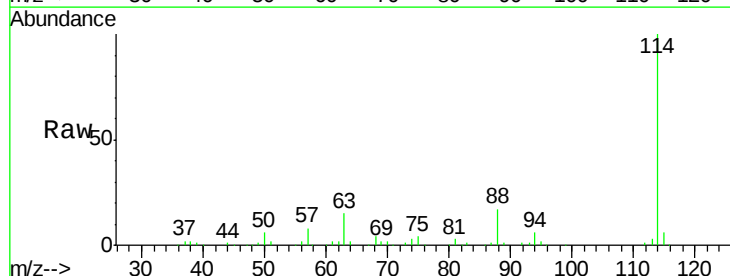
Tgt Ion: 114 Resp: 874961

Ion Ratio Lower Upper

114 100

63 14.9 0.0 32.4

88 16.9 0.0 33.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.23

400000

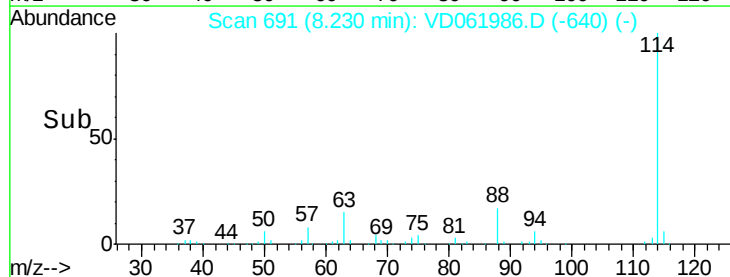
300000

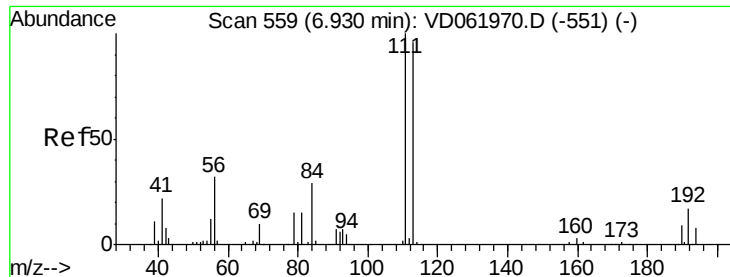
200000

100000

0

Time-->

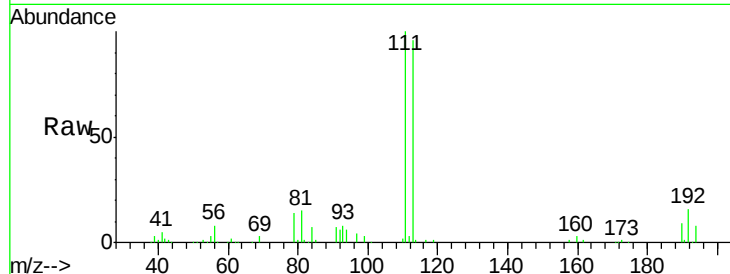




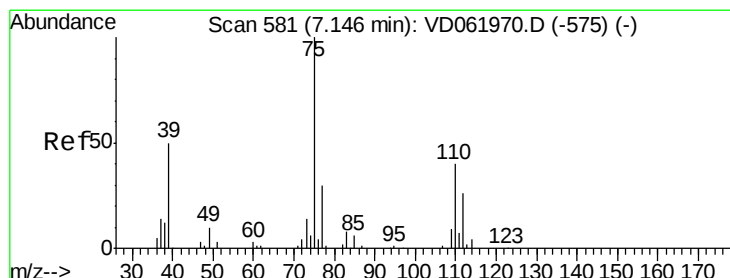
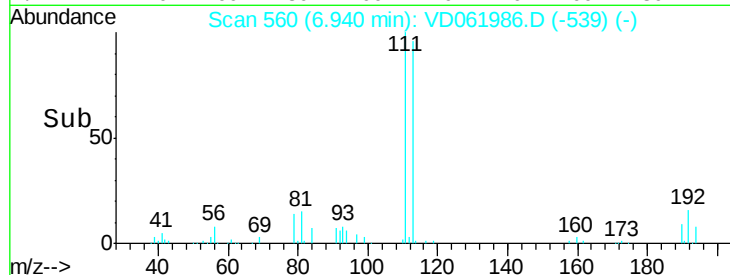
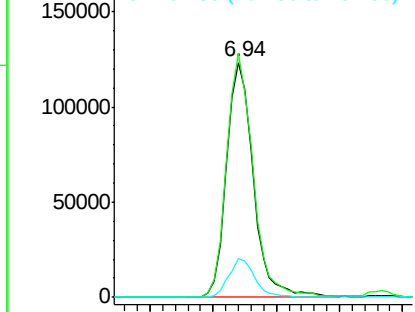
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.94 min Scan# 560
 Delta R.T. 0.01 min
 Lab File: VD061986.D
 Acq: 24 Apr 2019 1:59

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0423SBSD02

Tot Ion:113 Resp: 363410
 Ion Ratio Lower Upper
 113 100
 111 103.7 78.5 117.7
 192 16.5 13.0 19.4

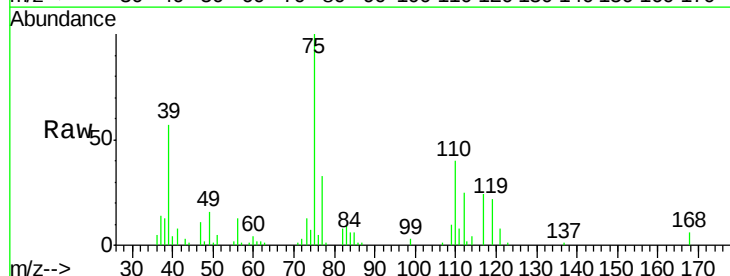


Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

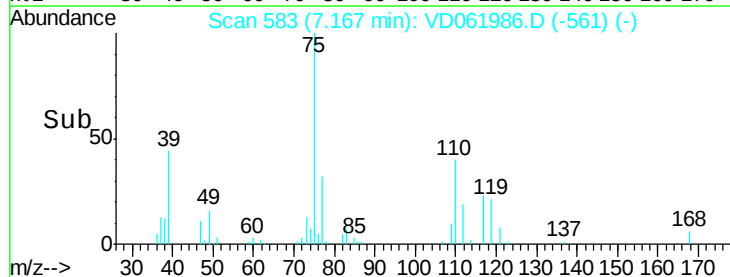
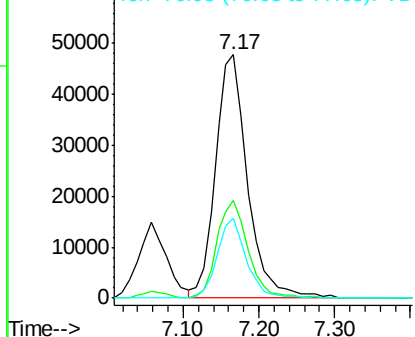


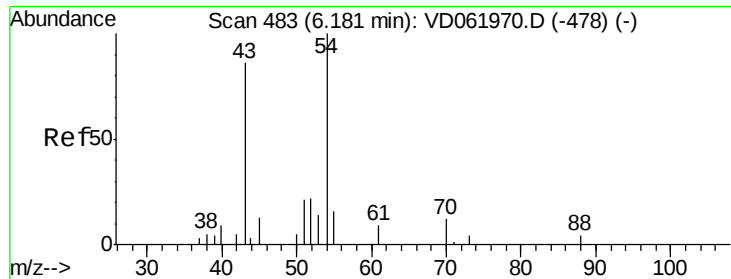
#36
 1,1-Dichloropropene
 Concen: 20.575 ug/l
 RT: 7.17 min Scan# 583
 Delta R.T. 0.02 min
 Lab File: VD061986.D
 Acq: 24 Apr 2019 1:59

Tgt Ion: 75 Resp: 140258
 Ion Ratio Lower Upper
 75 100
 110 40.2 19.1 57.1
 77 32.6 25.6 38.4



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

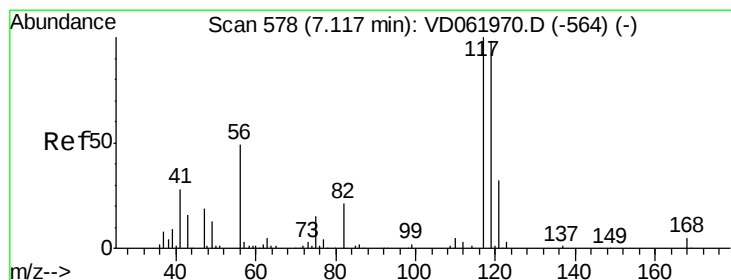
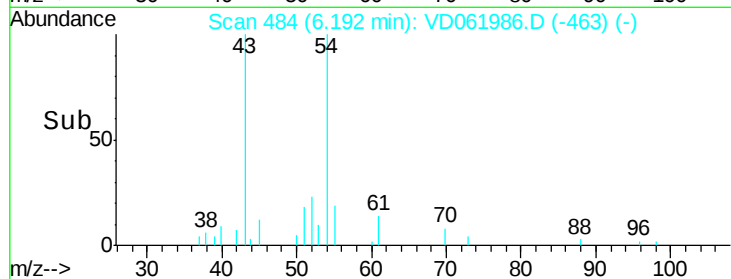
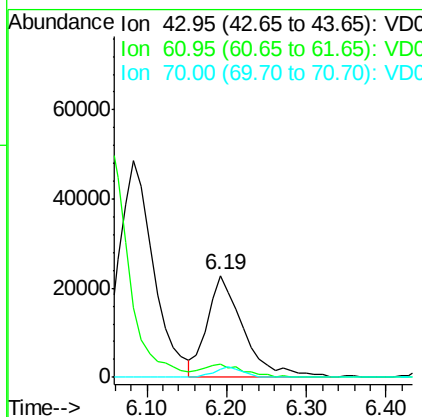
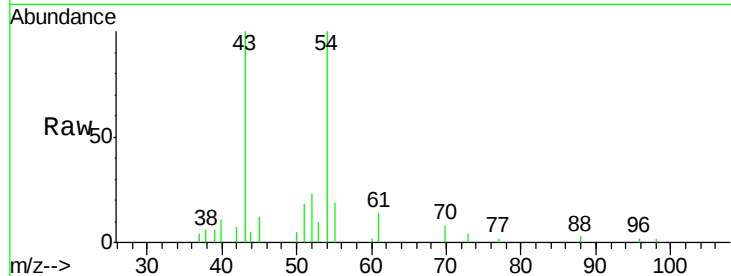




#37
Ethyl Acetate
Concen: 24.915 ug/l
RT: 6.19 min Scan# 484
Delta R.T. 0.01 min
Lab File: VD061986.D
Acq: 24 Apr 2019 1:59

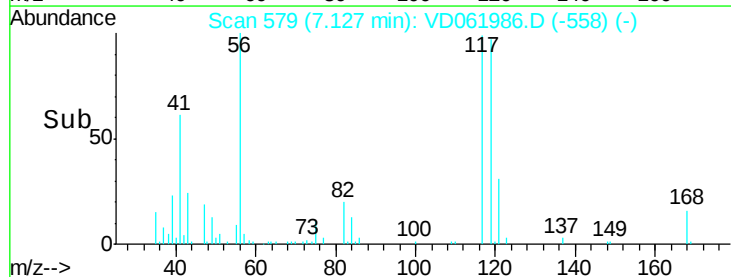
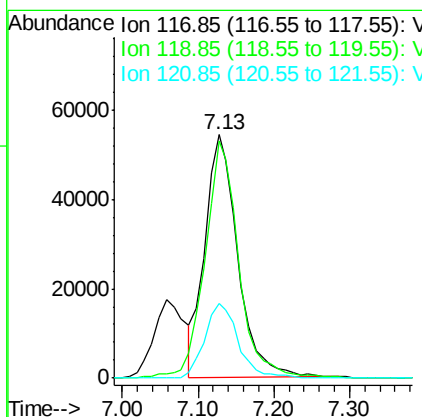
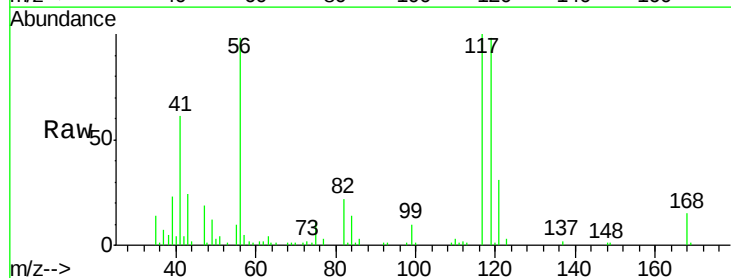
Instrument :
MSVOA_D
ClientSampleId :
VD0423SBS02

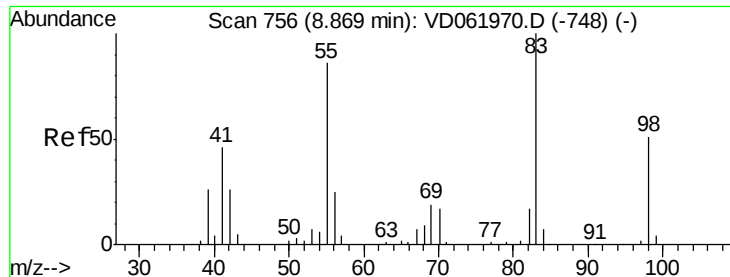
Tot Ion: 43 Resp: 72377
Ion Ratio Lower Upper
43 100
61 13.6 14.7 22.1#
70 7.7 7.8 11.6#



#38
Carbon Tetrachloride
Concen: 19.030 ug/l
RT: 7.13 min Scan# 579
Delta R.T. 0.01 min
Lab File: VD061986.D
Acq: 24 Apr 2019 1:59

Tgt Ion: 117 Resp: 164386
Ion Ratio Lower Upper
117 100
119 97.6 75.8 113.8
121 30.9 25.9 38.9

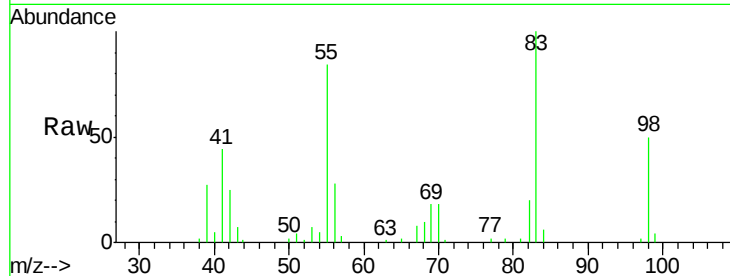




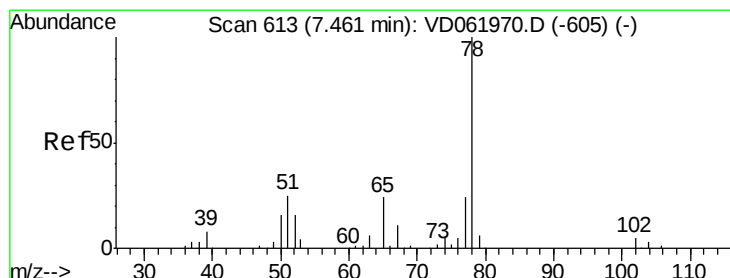
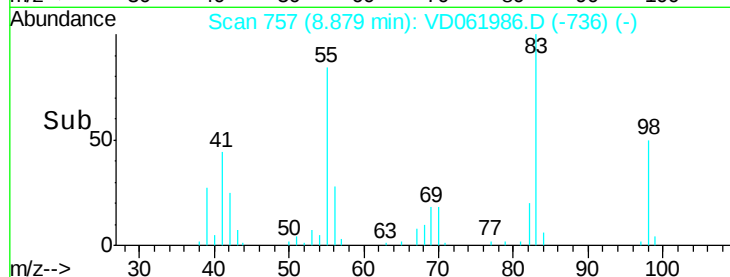
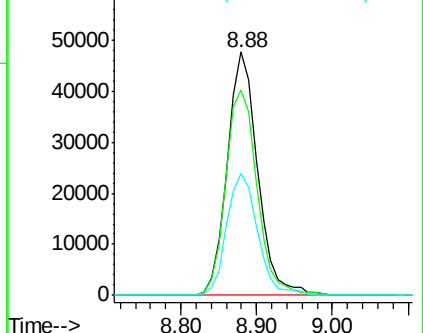
#39
Methvlcvclohexane
Concen: 19.683 ug/l
RT: 8.88 min Scan# 757
Delta R.T. 0.01 min
Lab File: VD061986.D
Acq: 24 Apr 2019 1:59

Instrument :
MSVOA_D
ClientSampleId :
VD0423SBSD02

Tot Ion: 83 Resp: 132382
Ion Ratio Lower Upper
83 100
55 84.3 68.2 102.4
98 50.0 38.2 57.4

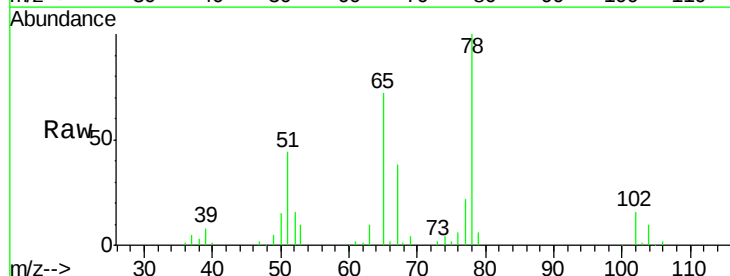


Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC

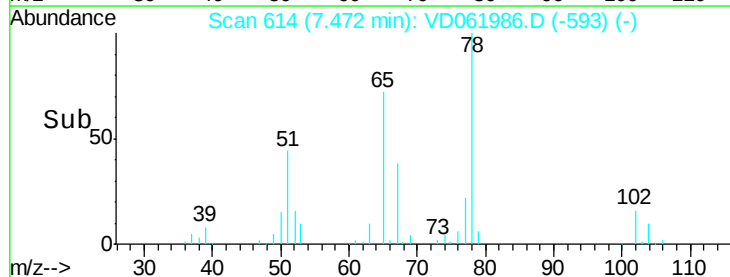
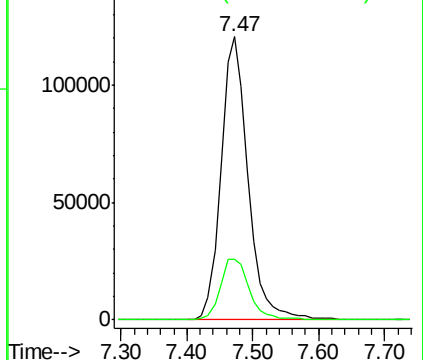


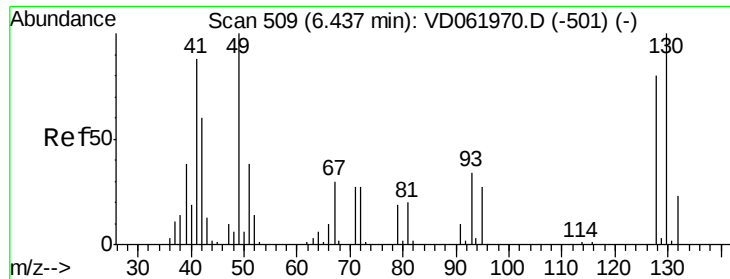
#40
Benzene
Concen: 20.445 ug/l
RT: 7.47 min Scan# 614
Delta R.T. 0.01 min
Lab File: VD061986.D
Acq: 24 Apr 2019 1:59

Tgt Ion: 78 Resp: 345031
Ion Ratio Lower Upper
78 100
77 21.6 19.7 29.5



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





#41

Methacrylonitrile

Concen: 24.476 ug/l

RT: 6.46 min Scan# 511

Delta R.T. 0.02 min

Lab File: VD061986.D

Acq: 24 Apr 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

VD0423SBSD02

Tot Ion: 41 Resp: 82959

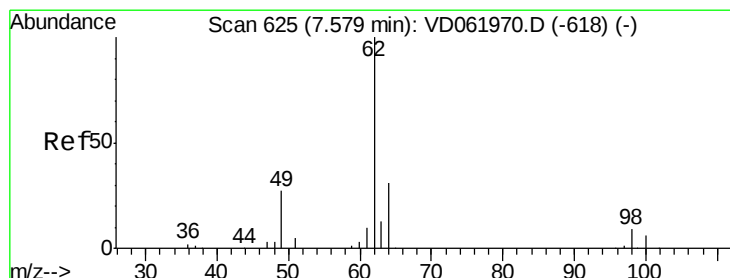
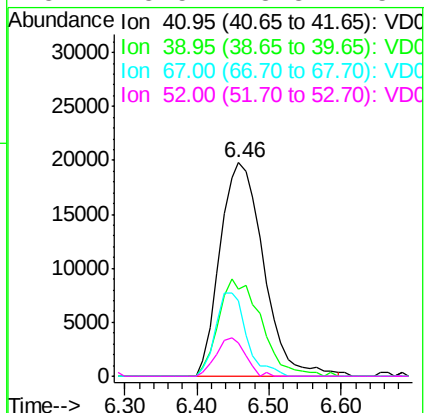
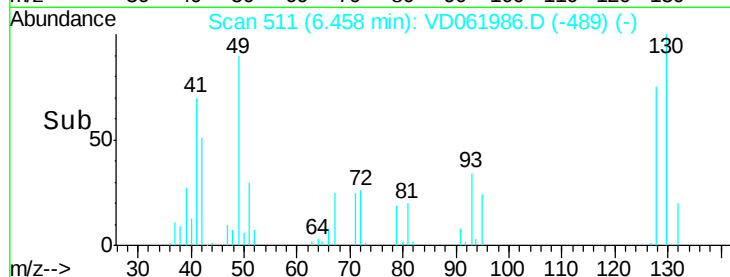
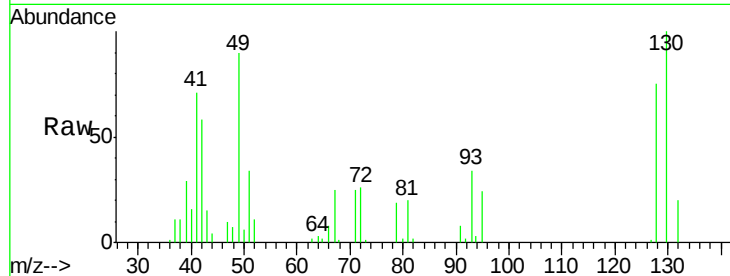
Ion Ratio Lower Upper

41 100

39 40.7 34.1 51.1

67 35.2 23.8 35.6

52 15.5 8.8 13.2#



#42

1,2-Dichloroethane

Concen: 21.773 ug/l

RT: 7.59 min Scan# 626

Delta R.T. 0.01 min

Lab File: VD061986.D

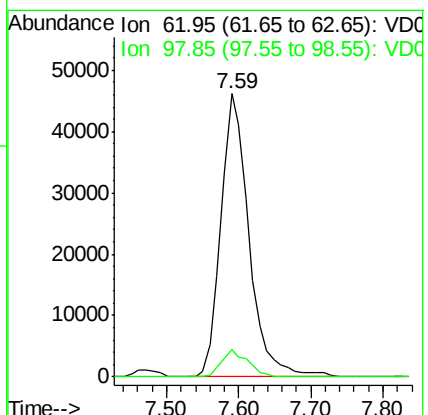
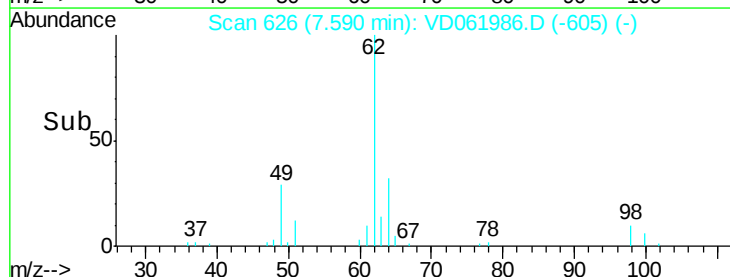
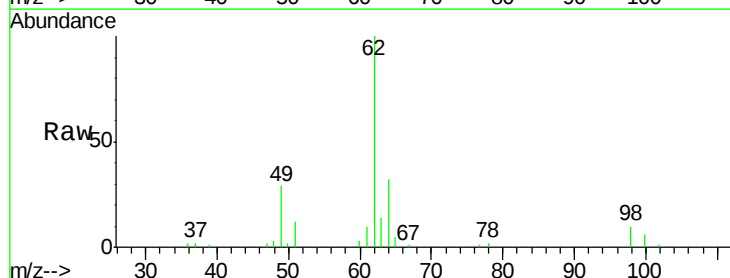
Acq: 24 Apr 2019 1:59

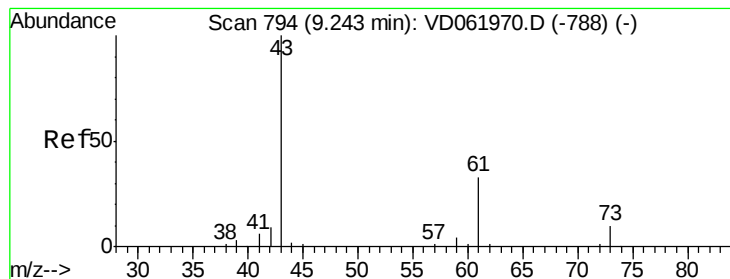
Tgt Ion: 62 Resp: 124762

Ion Ratio Lower Upper

62 100

98 9.9 0.0 17.8



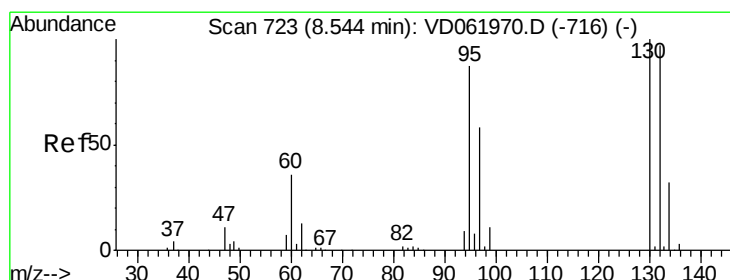
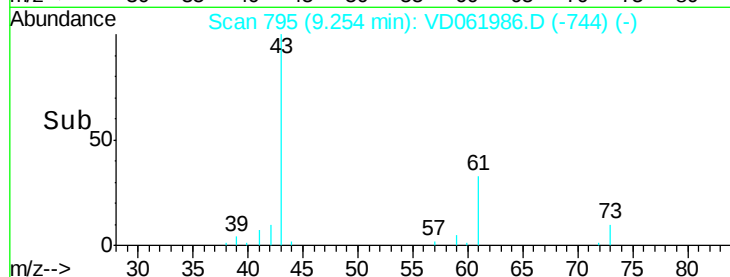
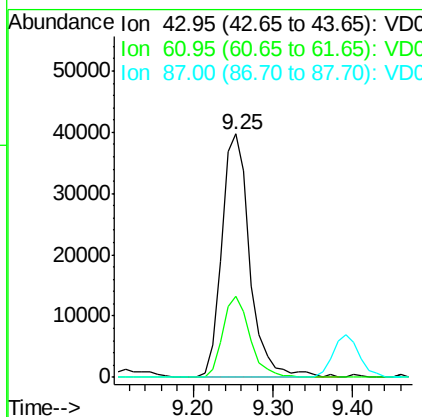
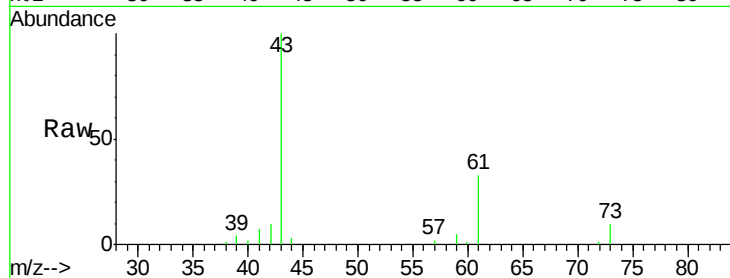


#43

Isopropyl Acetate
 Concen: 23.233 ug/l
 RT: 9.25 min Scan# 795
 Delta R.T. 0.01 min
 Lab File: VD061986.D
 Acq: 24 Apr 2019 1:59

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0423SBS02

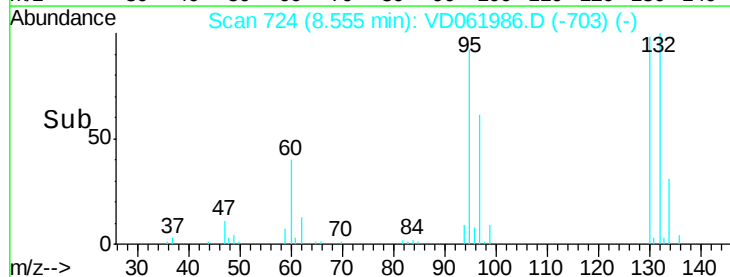
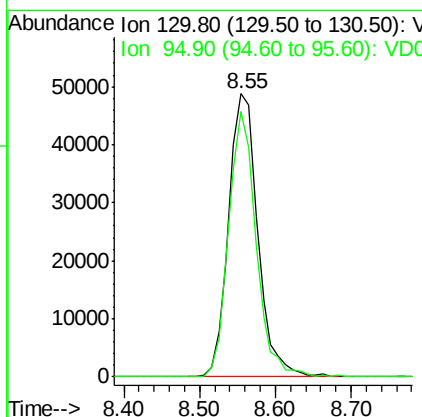
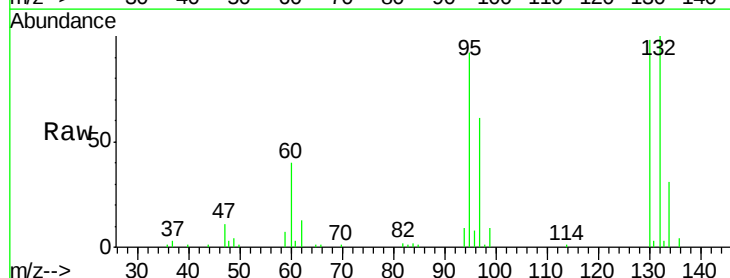
Tot Ion: 43 Resp: 98610
 Ion Ratio Lower Upper
 43 100
 61 33.2 25.1 37.7
 87 0.0 0.0 0.0

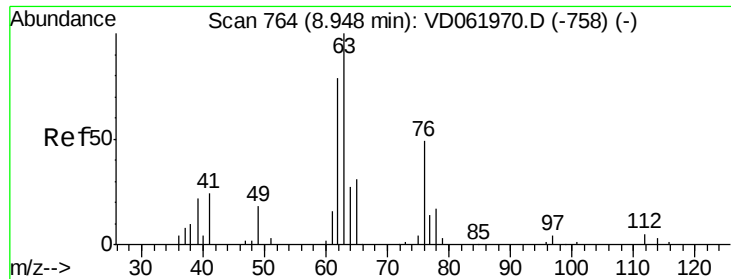


#44

Trichloroethene
 Concen: 19.849 ug/l
 RT: 8.55 min Scan# 724
 Delta R.T. 0.01 min
 Lab File: VD061986.D
 Acq: 24 Apr 2019 1:59

Tgt Ion: 130 Resp: 129867
 Ion Ratio Lower Upper
 130 100
 95 94.0 0.0 174.0





#45

1,2-Dichloropropane

Concen: 20.965 ug/l

RT: 8.96 min Scan# 765

Delta R.T. 0.02 min

Lab File: VD061986.D

Acq: 24 Apr 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

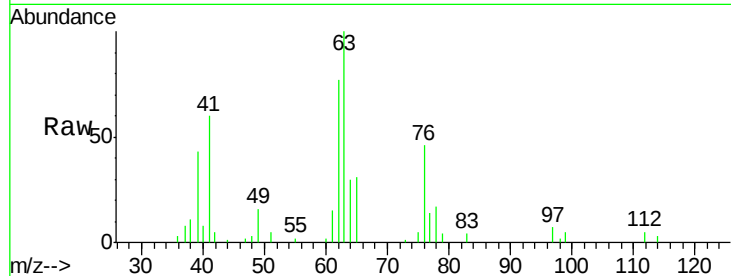
VD0423SBSD02

Tot Ion: 63 Resp: 89759

Ion Ratio Lower Upper

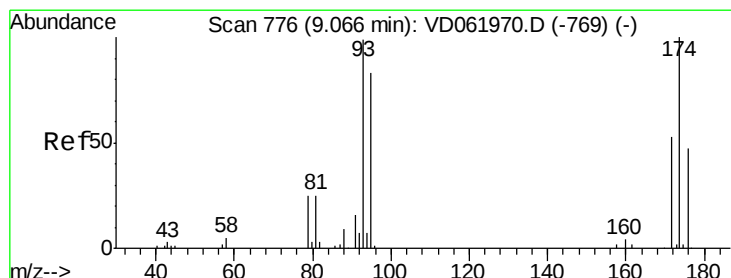
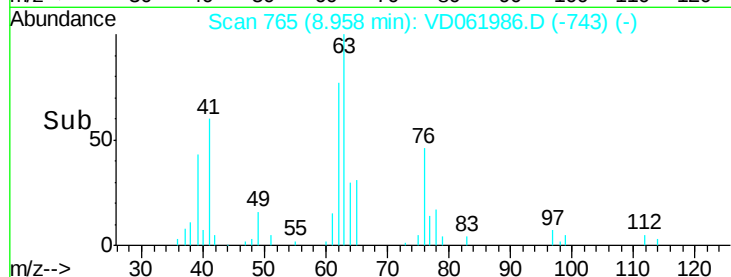
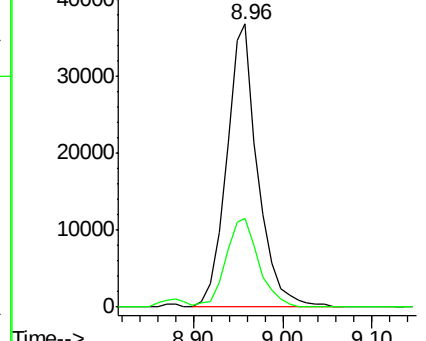
63 100

65 31.5 23.8 35.6



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 23.338 ug/l

RT: 9.08 min Scan# 777

Delta R.T. 0.01 min

Lab File: VD061986.D

Acq: 24 Apr 2019 1:59

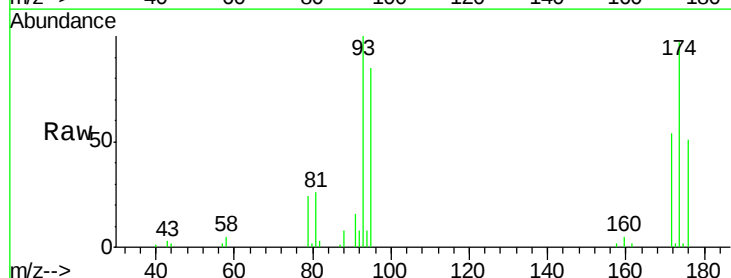
Tgt Ion: 93 Resp: 71898

Ion Ratio Lower Upper

93 100

95 84.5 64.8 97.2

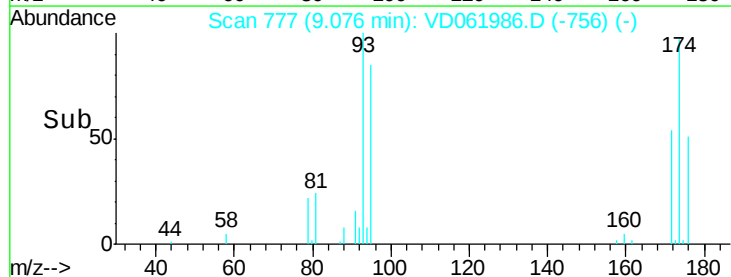
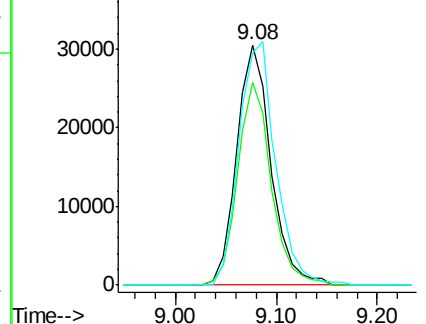
174 96.8 79.3 118.9

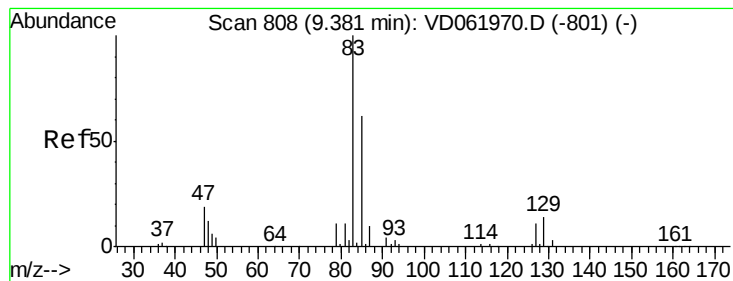


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): VDC





#47

Bromodichloromethane

Concen: 21.271 ug/l

RT: 9.39 min Scan# 809

Delta R.T. 0.01 min

Lab File: VD061986.D

Acq: 24 Apr 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

VD0423SBSD02

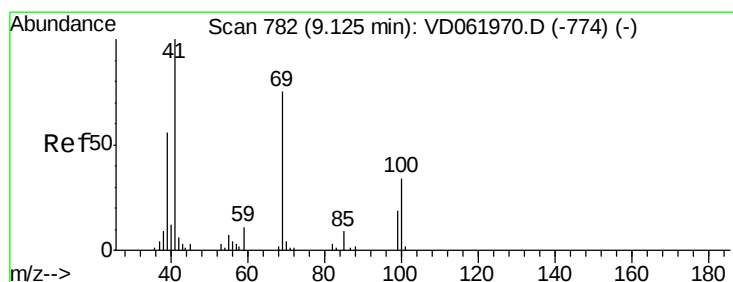
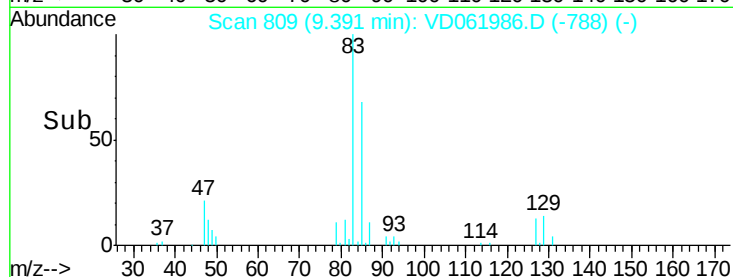
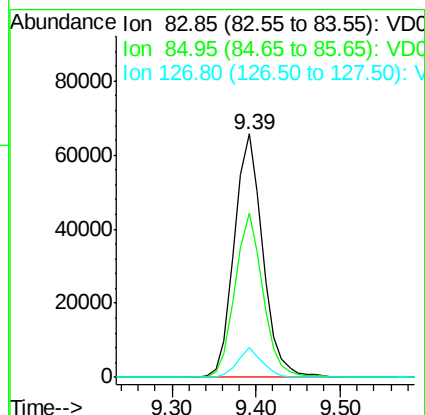
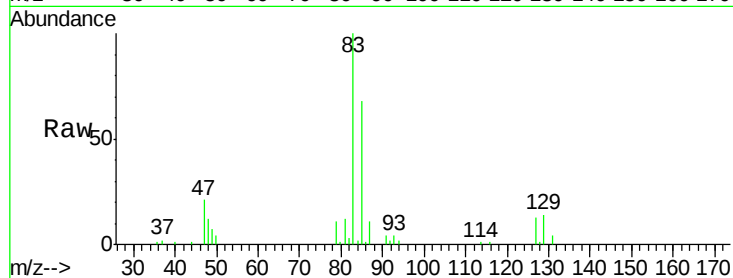
Tot Ion: 83 Resp: 154838

Ion Ratio Lower Upper

83 100

85 67.7 50.9 76.3

127 12.5 8.1 12.1#



#48

Methyl methacrylate

Concen: 23.045 ug/l

RT: 9.14 min Scan# 783

Delta R.T. 0.01 min

Lab File: VD061986.D

Acq: 24 Apr 2019 1:59

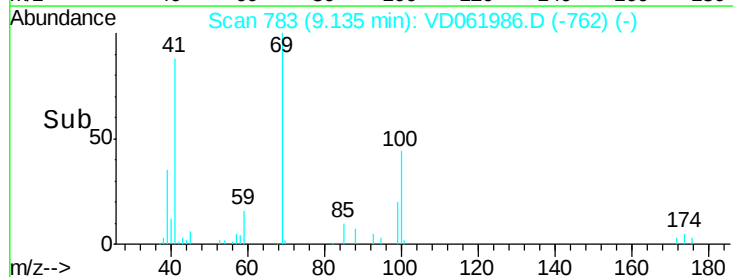
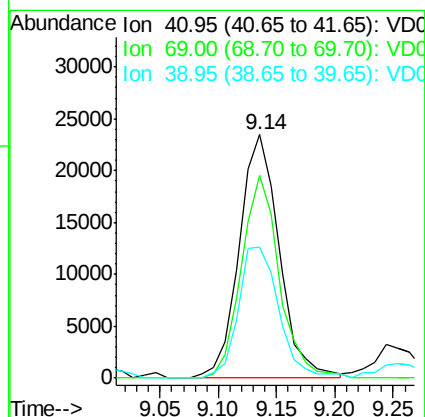
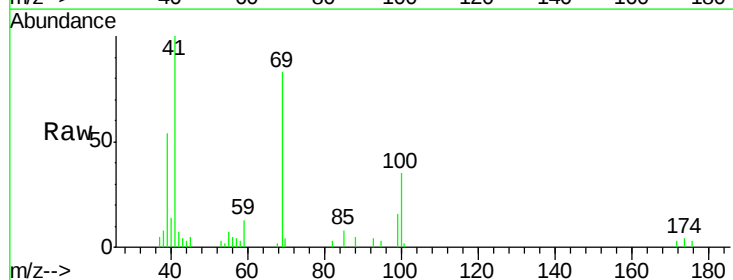
Tgt Ion: 41 Resp: 55807

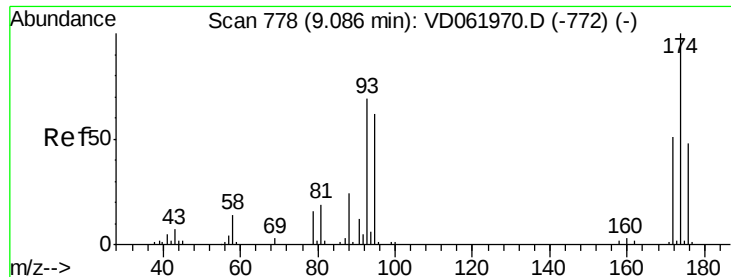
Ion Ratio Lower Upper

41 100

69 83.2 64.2 96.2

39 54.0 46.8 70.2

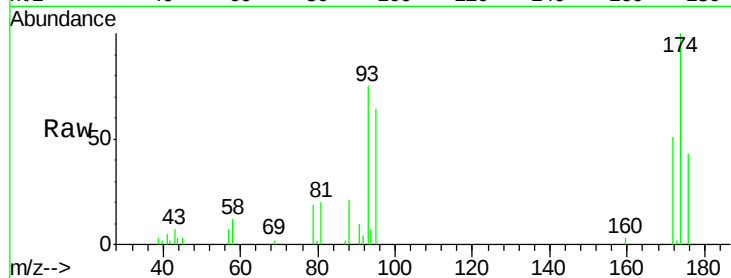




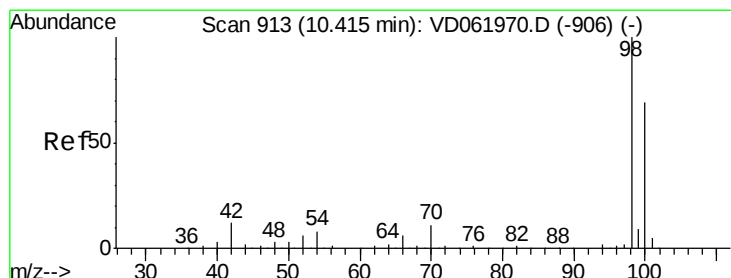
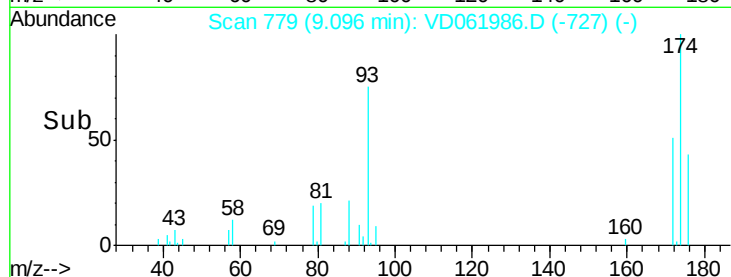
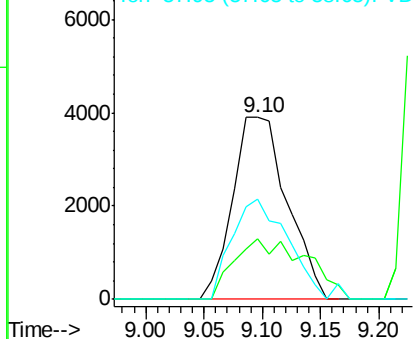
#49
1,4-Dioxane
Concen: 485.043 ug/l
RT: 9.10 min Scan# 779
Delta R.T. 0.02 min
Lab File: VD061986.D
Acq: 24 Apr 2019 1:59

Instrument :
MSVOA_D
ClientSampleId :
VD0423SBSD02

Tot Ion: 88 Resp: 12664
Ion Ratio Lower Upper
88 100
43 33.3 23.4 35.0
58 55.3 44.0 66.0

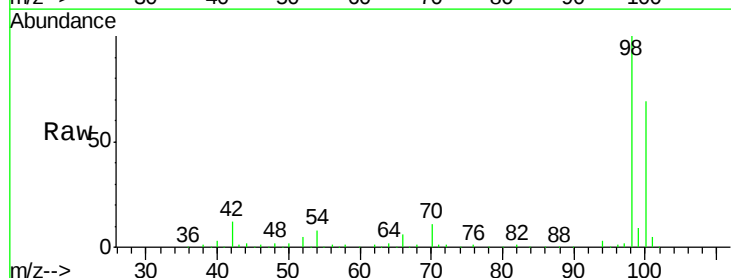


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

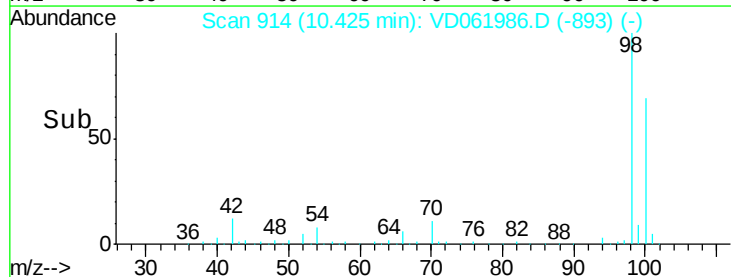
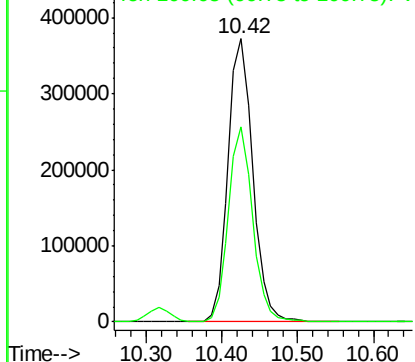


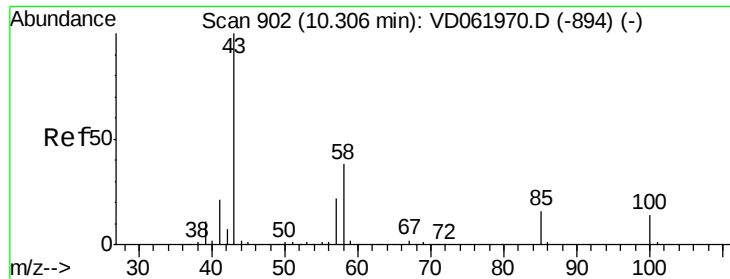
#50
Toluene-d8
Concen: 485.043 ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.01 min
Lab File: VD061986.D
Acq: 24 Apr 2019 1:59

Tgt Ion: 98 Resp: 842253
Ion Ratio Lower Upper
98 100
100 68.9 53.8 80.8



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





#51

4-Methyl-2-Pentanone

Concen: 120.069 ug/l

RT: 10.32 min Scan# 903

Delta R.T. 0.02 min

Lab File: VD061986.D

Acq: 24 Apr 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

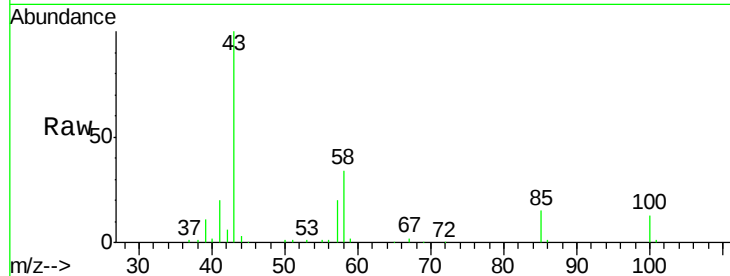
VD0423SBS02

Tot Ion: 43 Resp: 311669

Ion Ratio Lower Upper

43 100

58 34.1 30.4 45.6



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

10.32

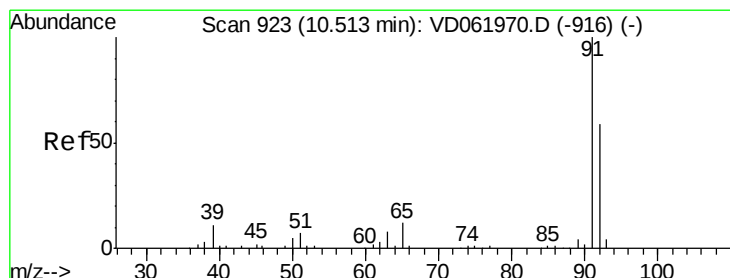
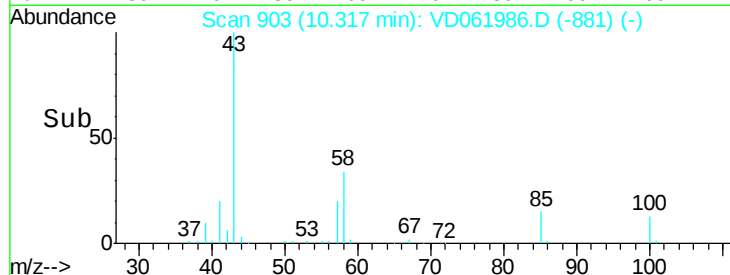
150000

100000

50000

0

Time-->



#52

Toluene

Concen: 20.168 ug/l

RT: 10.52 min Scan# 924

Delta R.T. 0.01 min

Lab File: VD061986.D

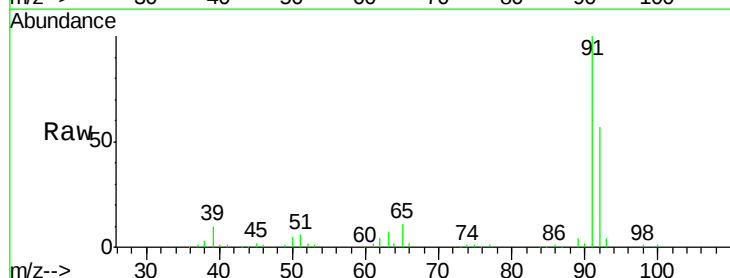
Acq: 24 Apr 2019 1:59

Tgt Ion: 92 Resp: 217020

Ion Ratio Lower Upper

92 100

91 174.5 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

10.52

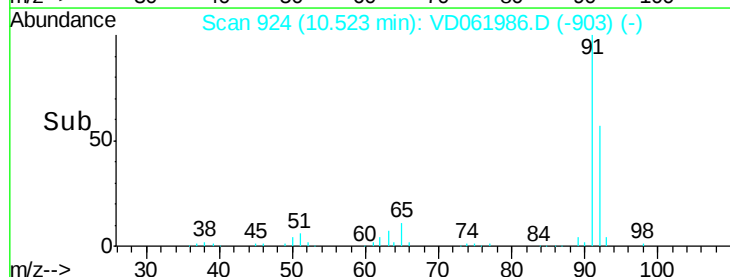
150000

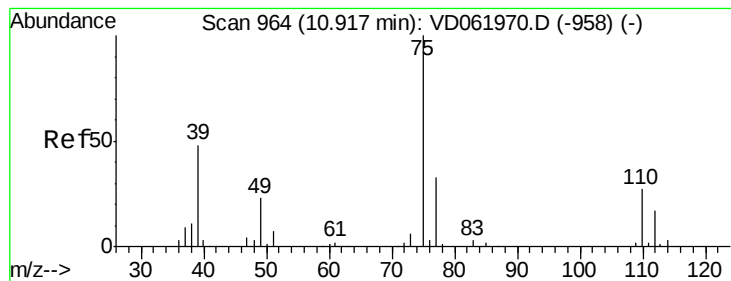
100000

50000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 22.545 ug/l

RT: 10.93 min Scan# 965

Delta R.T. 0.01 min

Lab File: VD061986.D

Acq: 24 Apr 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

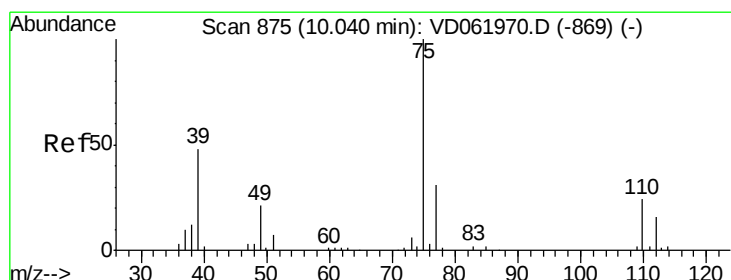
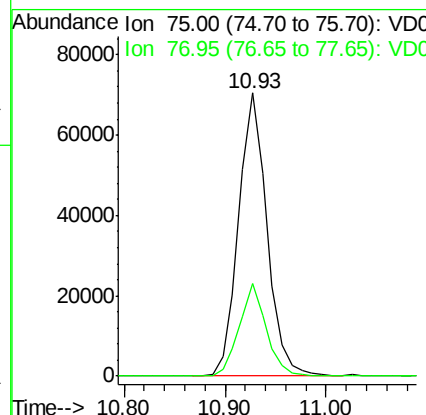
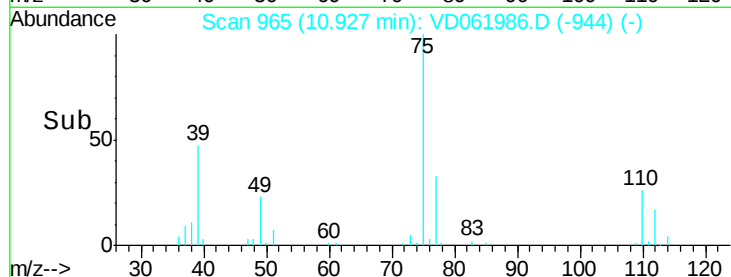
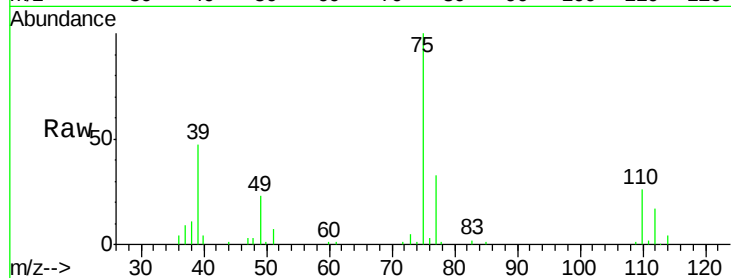
VD0423SBS02

Tot Ion: 75 Resp: 137748

Ion Ratio Lower Upper

75 100

77 32.8 25.8 38.8



#54

cis-1,3-Dichloropropene

Concen: 19.850 ug/l

RT: 10.05 min Scan# 876

Delta R.T. 0.01 min

Lab File: VD061986.D

Acq: 24 Apr 2019 1:59

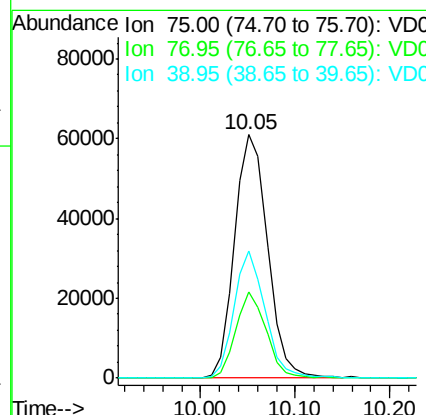
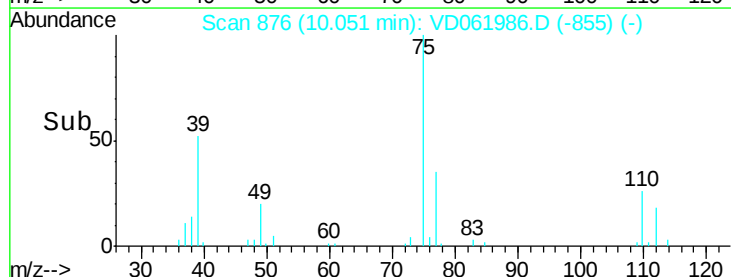
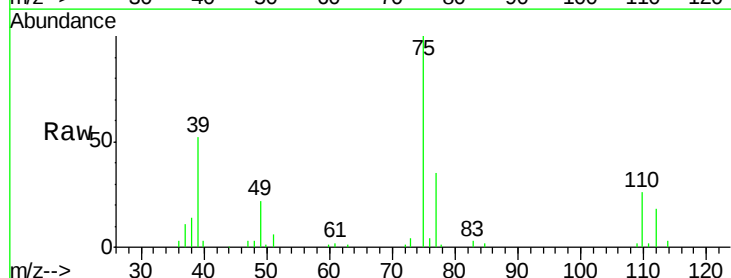
Tgt Ion: 75 Resp: 147508

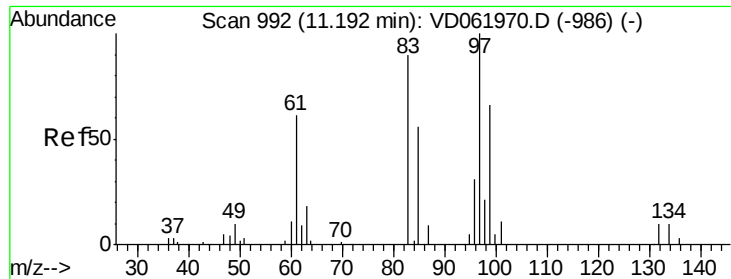
Ion Ratio Lower Upper

75 100

77 35.4 25.5 38.3

39 52.3 39.4 59.2

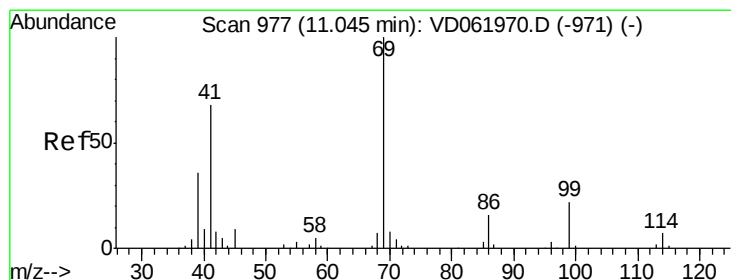
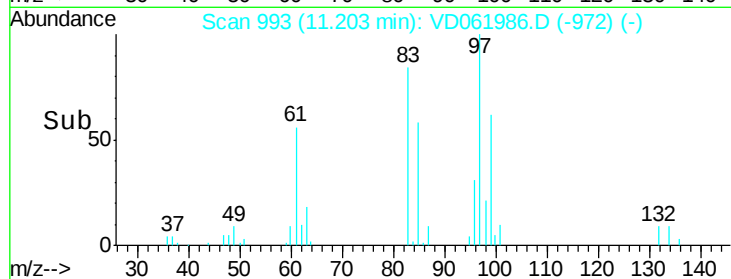
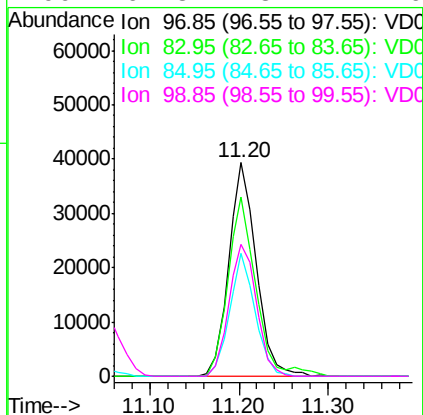
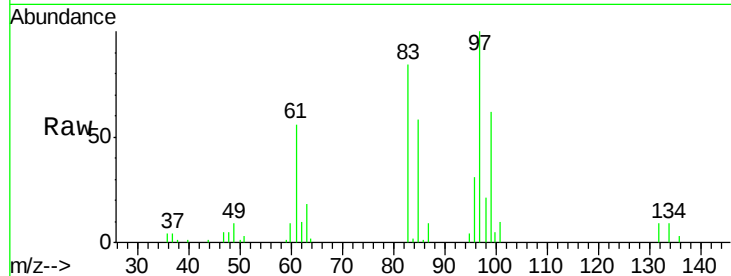




#55
 1,1,2-Trichloroethane
 Concen: 23.524 ug/l
 RT: 11.20 min Scan# 993
 Delta R.T. 0.01 min
 Lab File: VD061986.D
 Acq: 24 Apr 2019 1:59

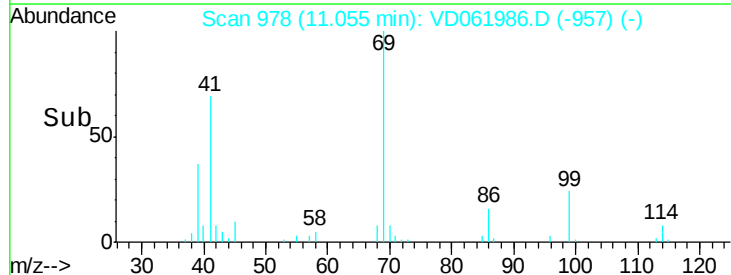
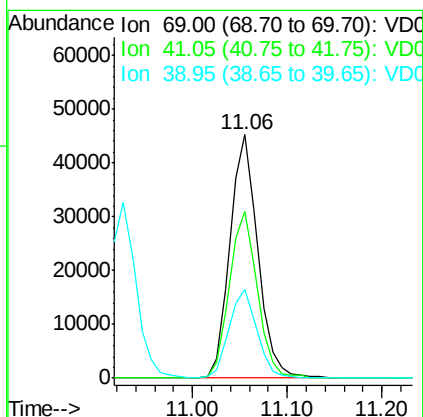
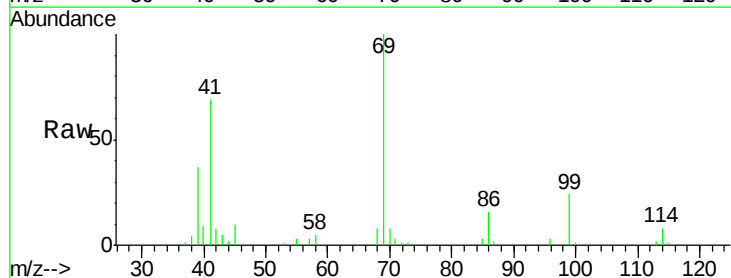
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0423SBSD02

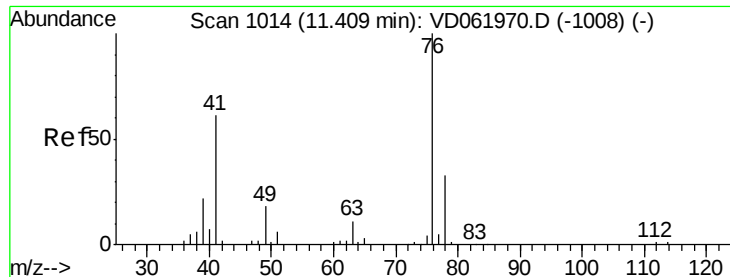
Tot Ion:	97	Resp:	84981
Ion	Ratio	Lower	Upper
97	100		
83	83.8	65.7	98.5
85	57.8	45.6	68.4
99	61.8	48.4	72.6



#56
 Ethyl methacrylate
 Concen: 23.089 ug/l
 RT: 11.06 min Scan# 978
 Delta R.T. 0.01 min
 Lab File: VD061986.D
 Acq: 24 Apr 2019 1:59

Tgt Ion:	69	Resp:	92380
Ion	Ratio	Lower	Upper
69	100		
41	68.5	56.3	84.5
39	36.6	29.4	44.2





#57

1,3-Dichloropropane

Concen: 20.635 ug/l

RT: 11.42 min Scan# 1015

Delta R.T. 0.01 min

Lab File: VD061986.D

Acq: 24 Apr 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

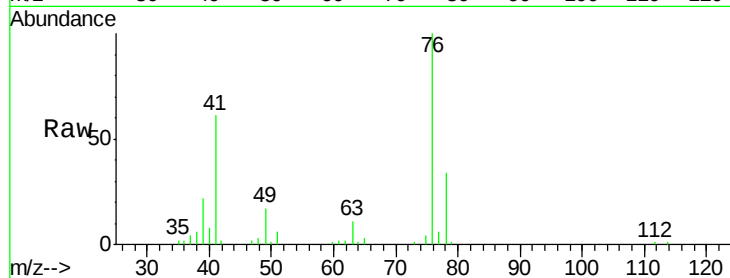
VD0423SBSD02

Tot Ion: 76 Resp: 115133

Ion Ratio Lower Upper

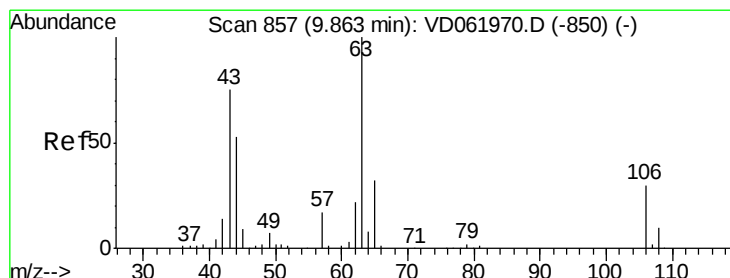
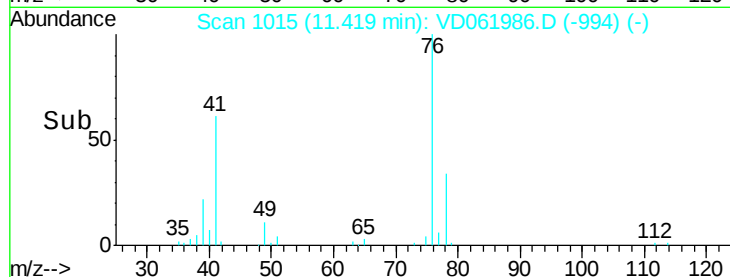
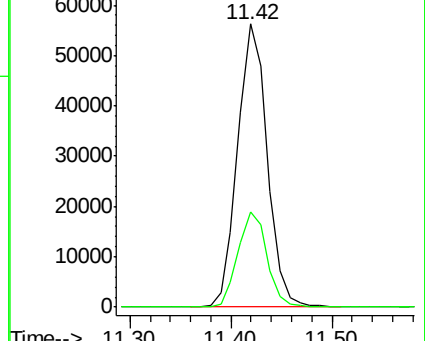
76 100

78 33.8 26.2 39.2



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 127.389 ug/l

RT: 9.87 min Scan# 858

Delta R.T. 0.01 min

Lab File: VD061986.D

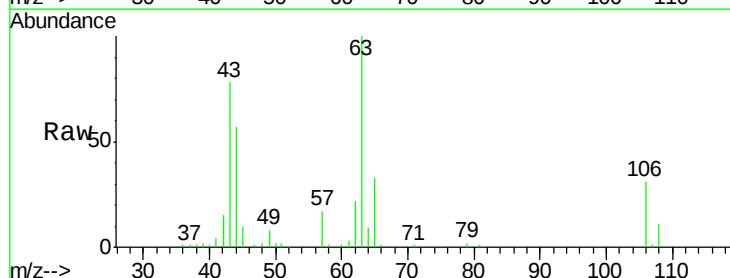
Acq: 24 Apr 2019 1:59

Tgt Ion: 63 Resp: 236970

Ion Ratio Lower Upper

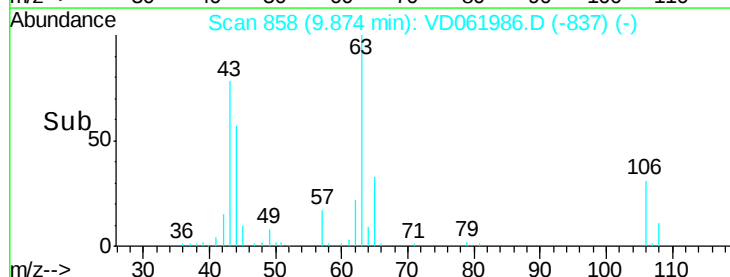
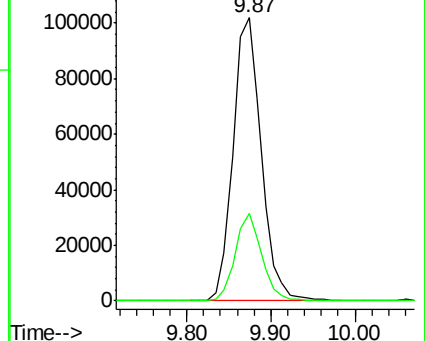
63 100

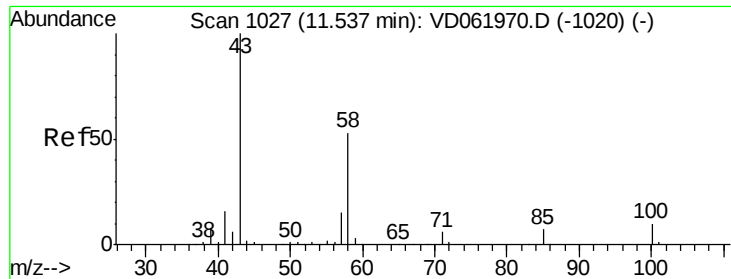
106 31.0 22.6 34.0



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

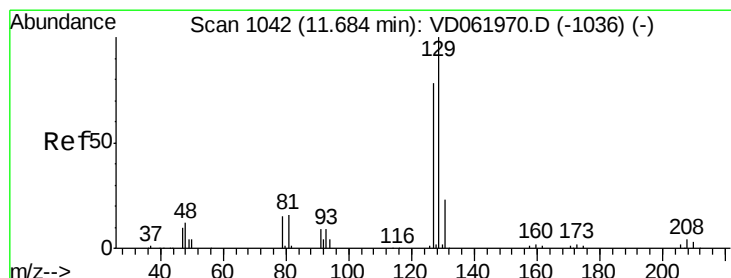
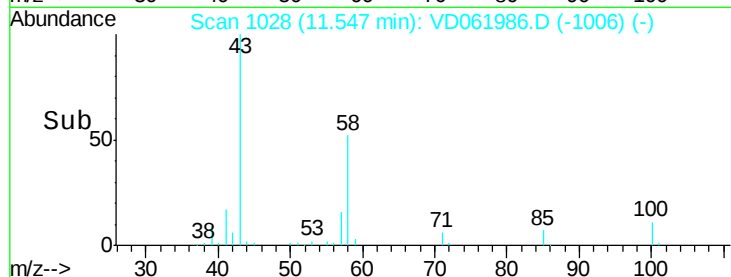
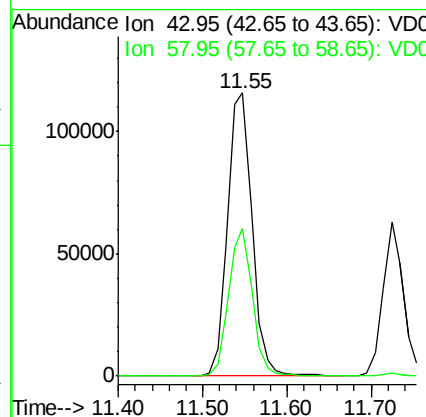
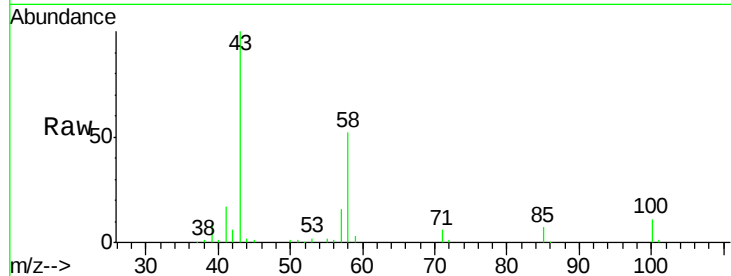




#59
2-Hexanone
Concen: 119.840 ug/l
RT: 11.55 min Scan# 1028
Delta R.T. 0.02 min
Lab File: VD061986.D
Acq: 24 Apr 2019 1:59

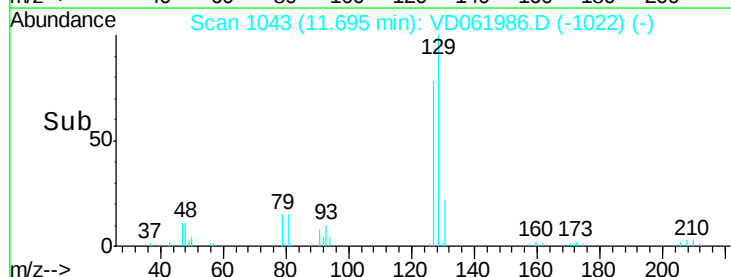
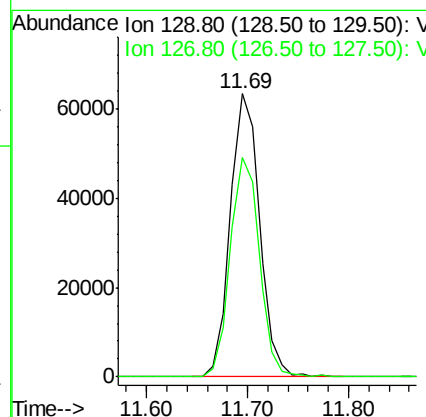
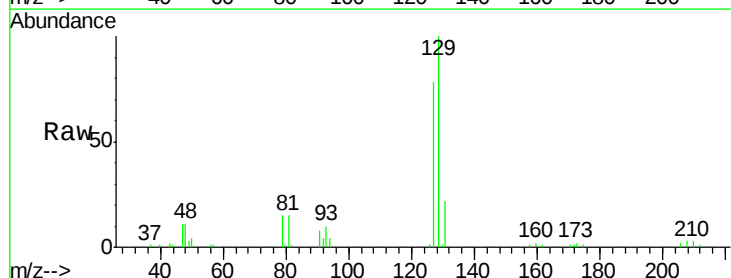
Instrument :
MSVOA_D
ClientSampleId :
VD0423SBSD02

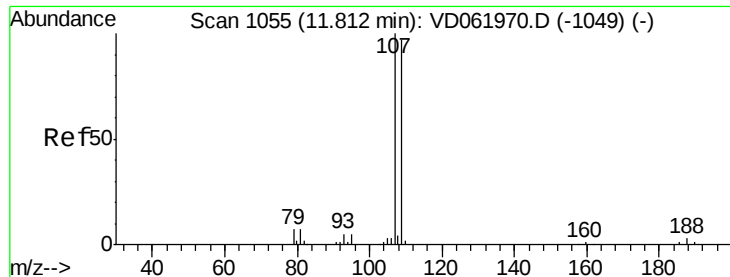
Tot Ion: 43 Resp: 233350
Ion Ratio Lower Upper
43 100
58 52.1 25.4 76.4



#60
Dibromochloromethane
Concen: 21.405 ug/l
RT: 11.69 min Scan# 1043
Delta R.T. 0.01 min
Lab File: VD061986.D
Acq: 24 Apr 2019 1:59

Tgt Ion: 129 Resp: 127944
Ion Ratio Lower Upper
129 100
127 77.6 38.0 113.9





#61

1,2-Dibromoethane

Concen: 23.139 ug/l

RT: 11.81 min Scan# 1055

Delta R.T. 0.01 min

Lab File: VD061986.D

Acq: 24 Apr 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

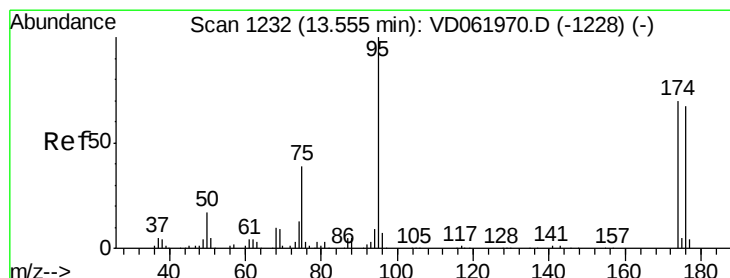
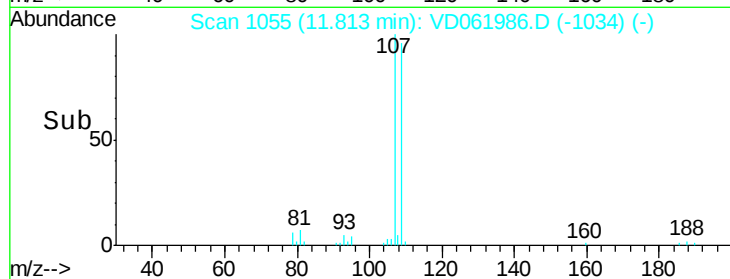
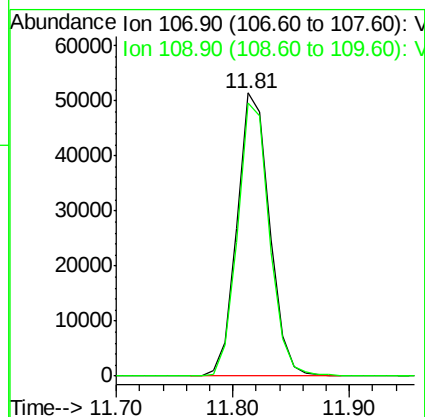
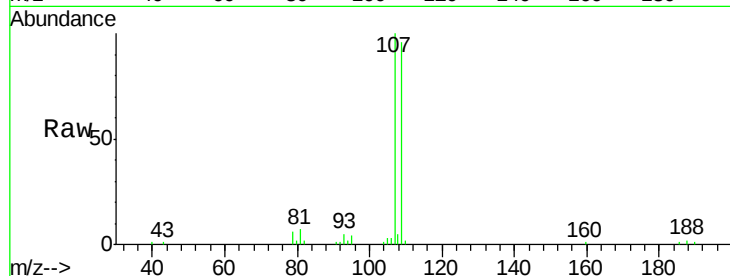
VD0423SBSD02

Tot Ion:107 Resp: 99161

Ion Ratio Lower Upper

107 100

109 96.3 78.3 117.5



#62

4-Bromofluorobenzene

Concen: 23.139 ug/l

RT: 13.57 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD061986.D

Acq: 24 Apr 2019 1:59

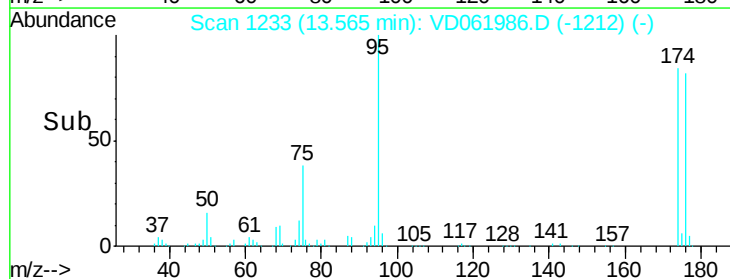
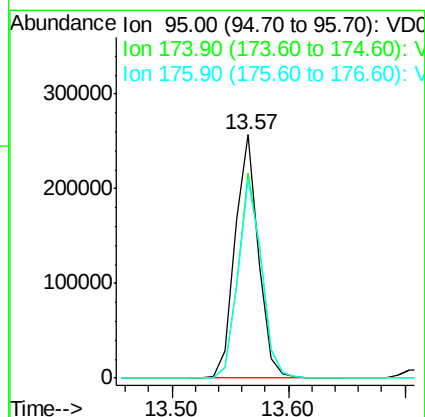
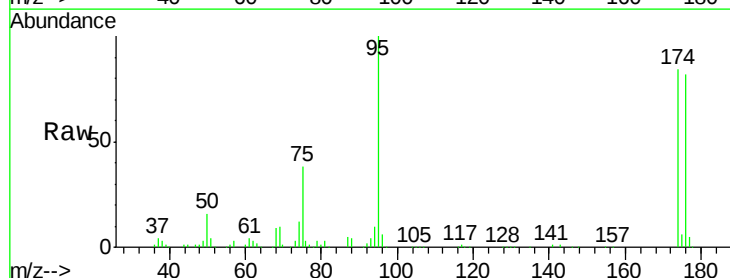
Tgt Ion: 95 Resp: 354053

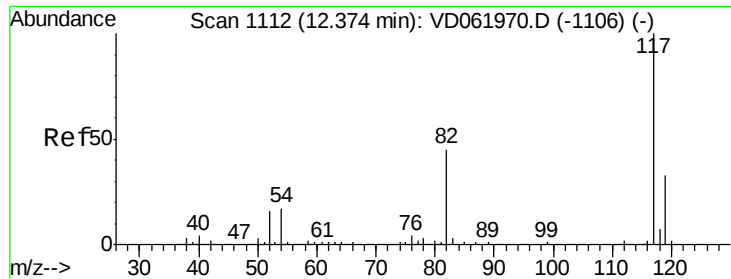
Ion Ratio Lower Upper

95 100

174 84.3 0.0 181.8

176 81.6 0.0 174.4

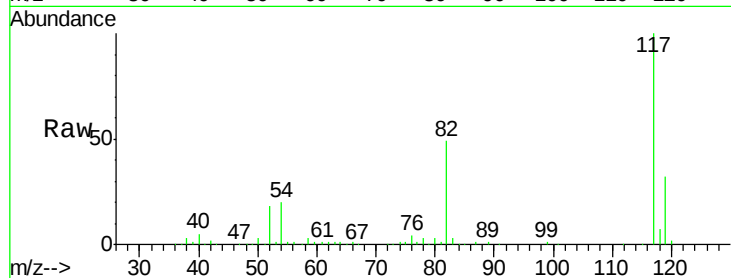




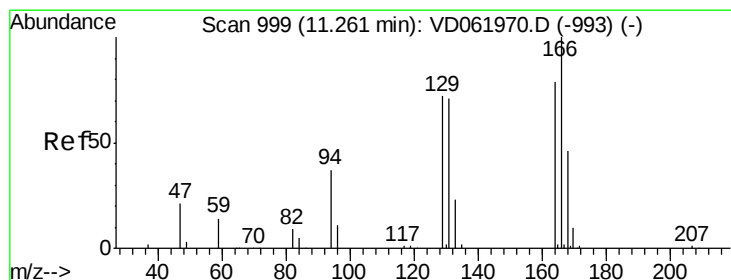
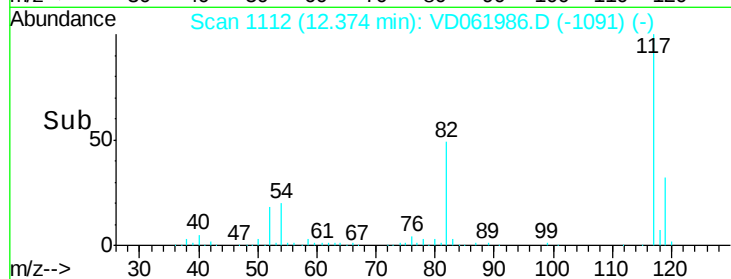
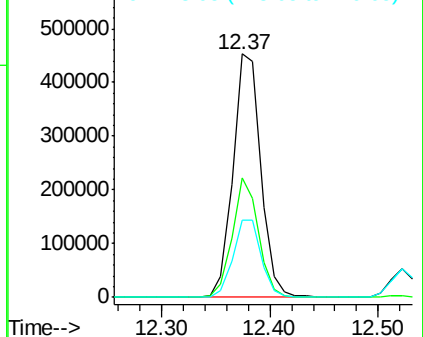
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD061986.D
Acq: 24 Apr 2019 1:59

Instrument :
MSVOA_D
ClientSampleId :
VD0423SBSD02

Tot Ion:117 Resp: 810949
Ion Ratio Lower Upper
117 100
82 49.1 36.2 54.2
119 31.6 26.2 39.4

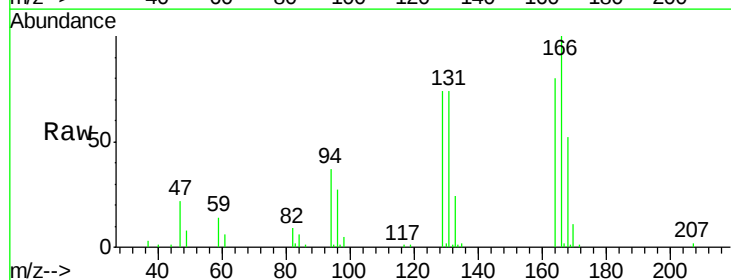


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

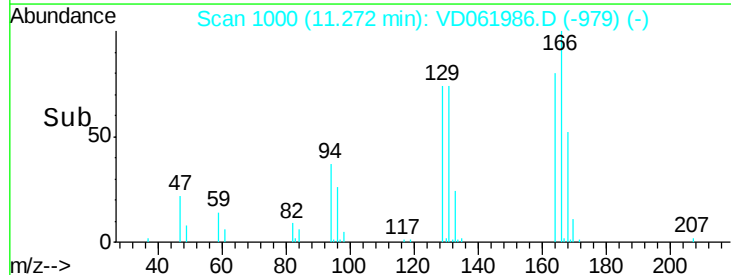
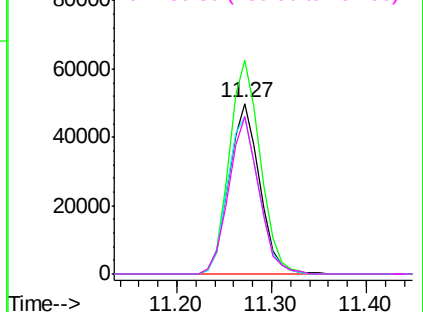


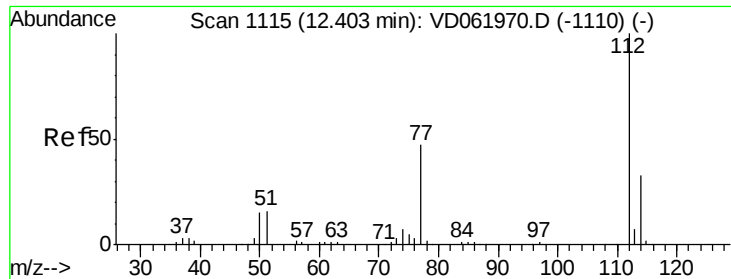
#64
Tetrachloroethene
Concen: 19.289 ug/l
RT: 11.27 min Scan# 1000
Delta R.T. 0.01 min
Lab File: VD061986.D
Acq: 24 Apr 2019 1:59

Tgt Ion:164 Resp: 111584
Ion Ratio Lower Upper
164 100
166 125.0 101.5 152.3
129 92.5 74.6 112.0
131 92.0 72.6 108.8



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

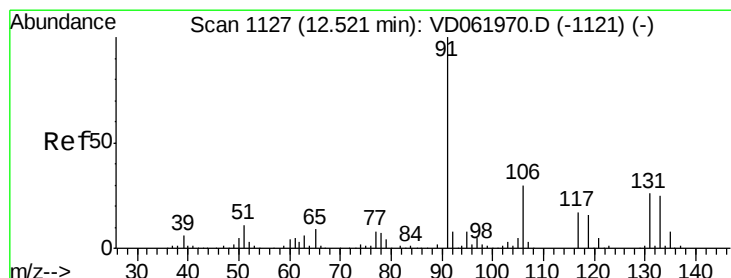
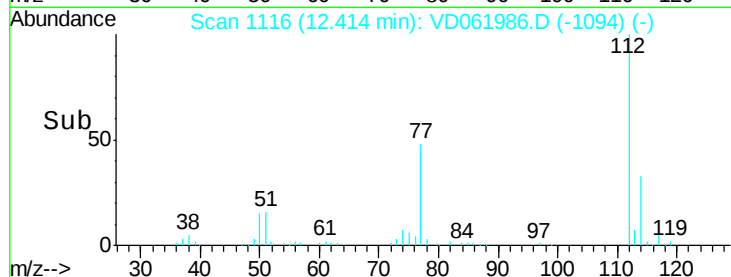
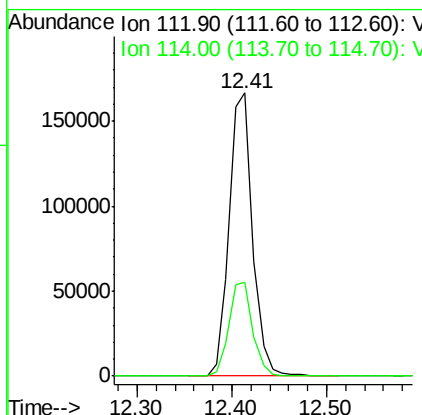
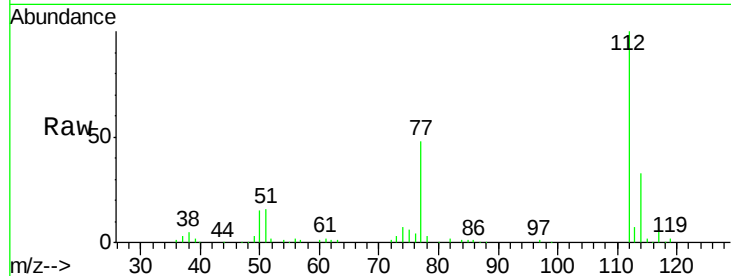




#65
Chlorobenzene
Concen: 18.559 ug/l
RT: 12.41 min Scan# 1116
Delta R.T. 0.02 min
Lab File: VD061986.D
Acq: 24 Apr 2019 1:59

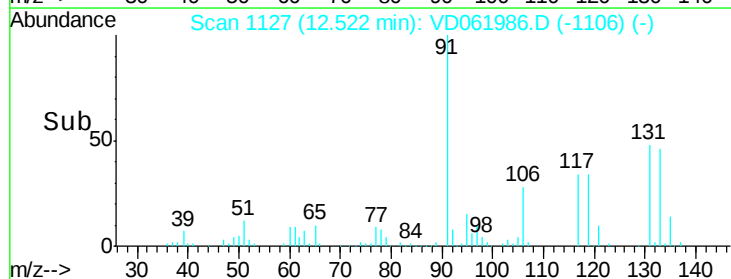
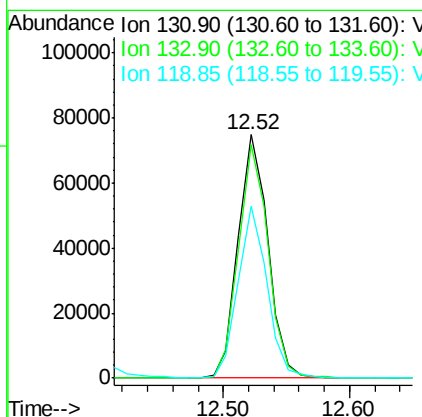
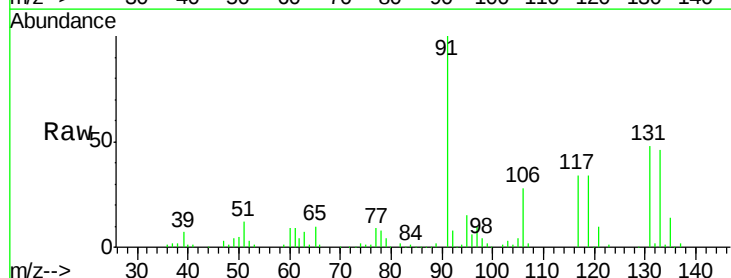
Instrument :
MSVOA_D
ClientSampleId :
VD0423SBSD02

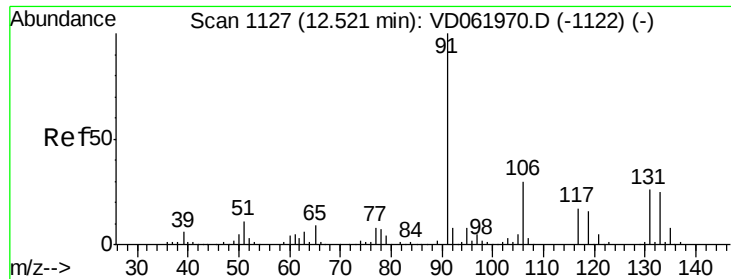
Tot Ion:112 Resp: 284396
Ion Ratio Lower Upper
112 100
114 33.0 25.8 38.8



#66
1,1,1,2-Tetrachloroethane
Concen: 18.842 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. 0.01 min
Lab File: VD061986.D
Acq: 24 Apr 2019 1:59

Tgt Ion:131 Resp: 122475
Ion Ratio Lower Upper
131 100
133 95.6 48.6 145.8
119 70.5 34.7 104.1

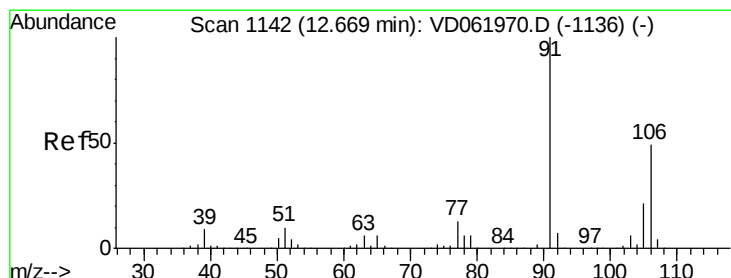
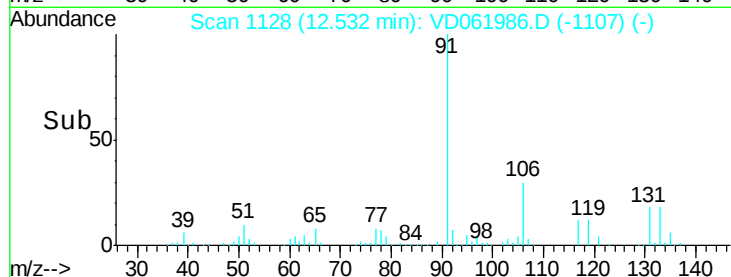
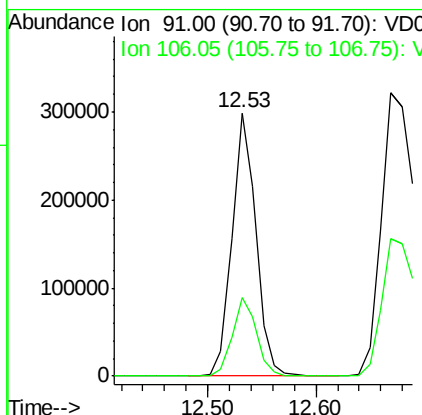
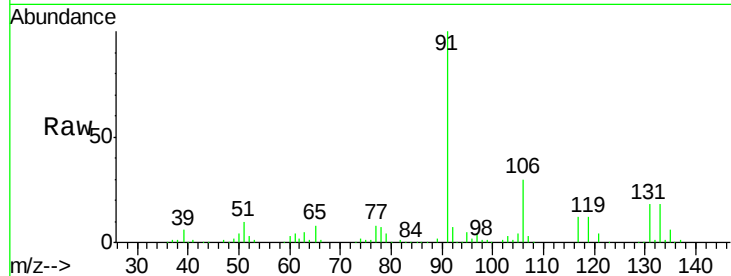




#67
Ethyl Benzene
Concen: 18.424 ug/l
RT: 12.53 min Scan# 1128
Delta R.T. 0.01 min
Lab File: VD061986.D
Acq: 24 Apr 2019 1:59

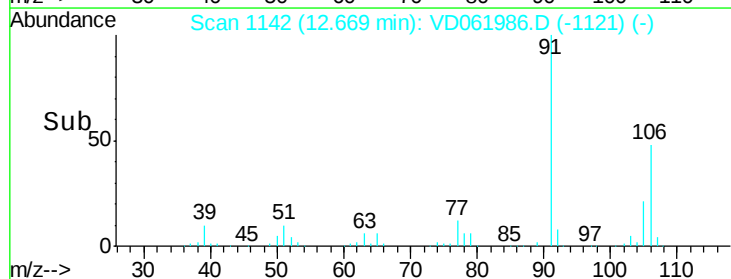
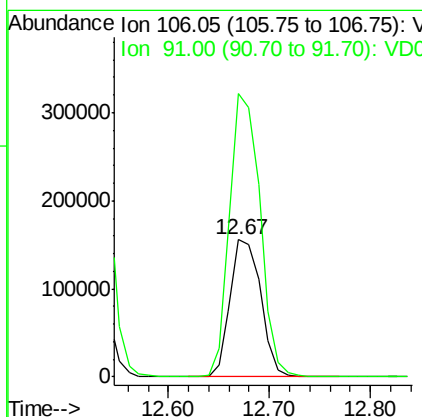
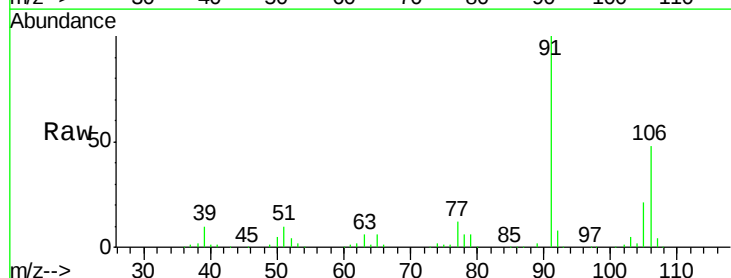
Instrument :
MSVOA_D
ClientSampleId :
VD0423SBS02

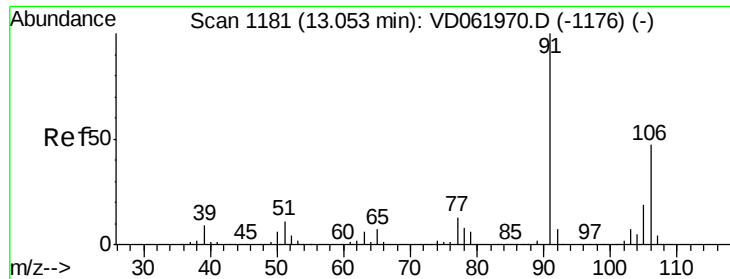
Tot Ion: 91 Resp: 460811
Ion Ratio Lower Upper
91 100
106 29.7 24.7 37.1



#68
m/p-Xylenes
Concen: 36.726 ug/l
RT: 12.67 min Scan# 1142
Delta R.T. 0.01 min
Lab File: VD061986.D
Acq: 24 Apr 2019 1:59

Tgt Ion: 106 Resp: 331997
Ion Ratio Lower Upper
106 100
91 206.2 164.0 246.0

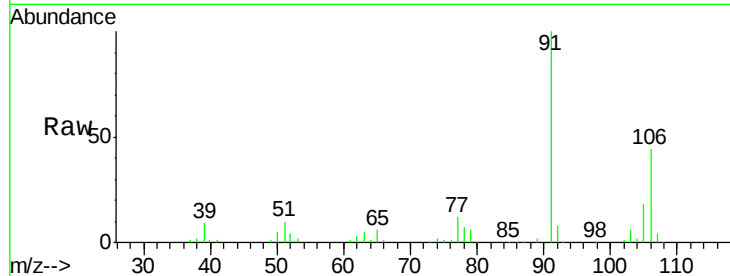




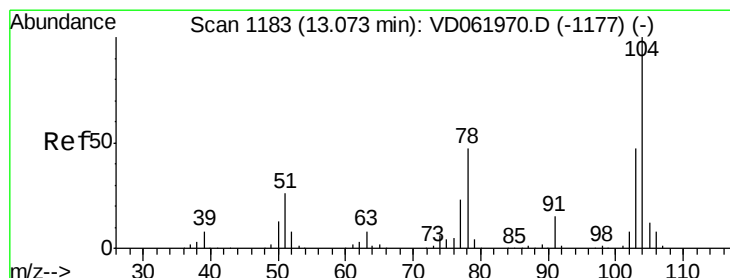
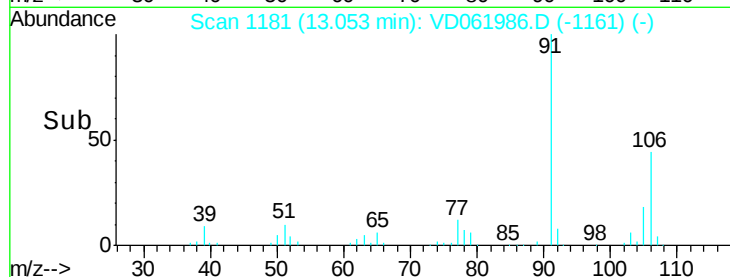
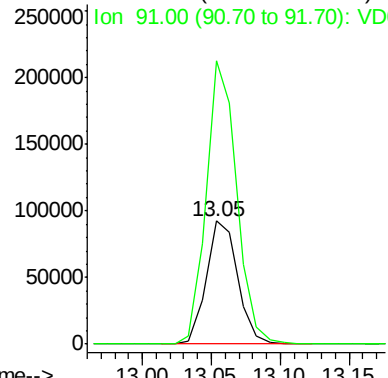
#69
o-Xylene
Concen: 17.803 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VD061986.D
Acq: 24 Apr 2019 1:59

Instrument :
MSVOA_D
ClientSampleId :
VD0423SBSD02

Tot Ion:106 Resp: 147251
Ion Ratio Lower Upper
106 100
91 229.6 106.7 319.9

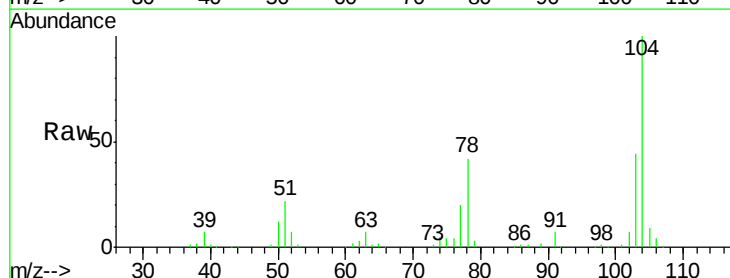


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

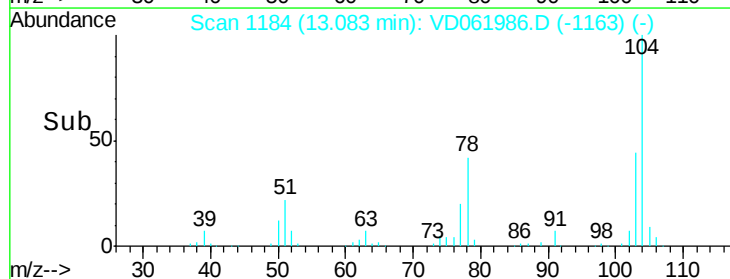
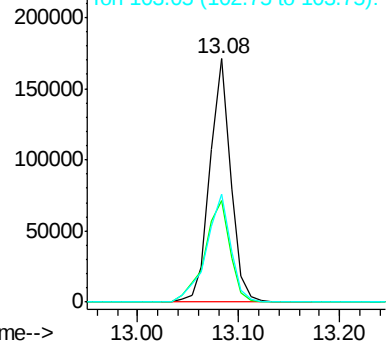


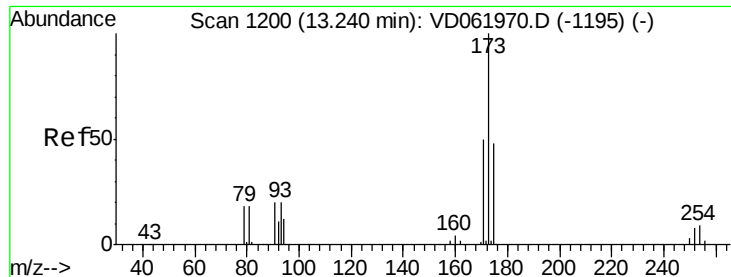
#70
Styrene
Concen: 17.083 ug/l
RT: 13.08 min Scan# 1184
Delta R.T. 0.01 min
Lab File: VD061986.D
Acq: 24 Apr 2019 1:59

Tgt Ion:104 Resp: 243971
Ion Ratio Lower Upper
104 100
78 41.7 35.4 53.2
103 44.5 37.5 56.3



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: 20.699 ug/l

RT: 13.24 min Scan# 1200

Delta R.T. 0.01 min

Lab File: VD061986.D

Acq: 24 Apr 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

VD0423SBS02

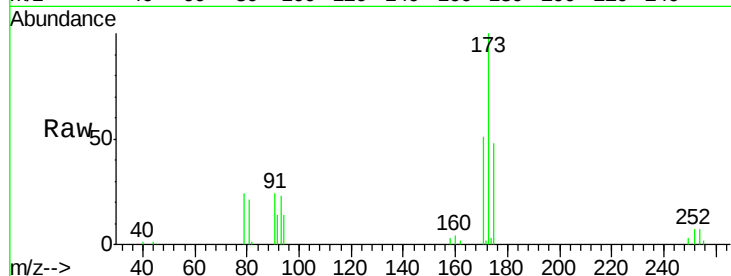
Tot Ion:173 Resp: 76708

Ion Ratio Lower Upper

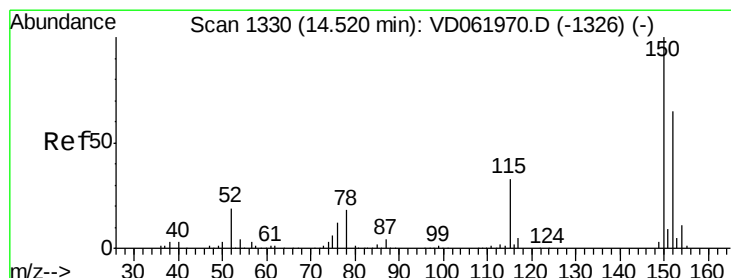
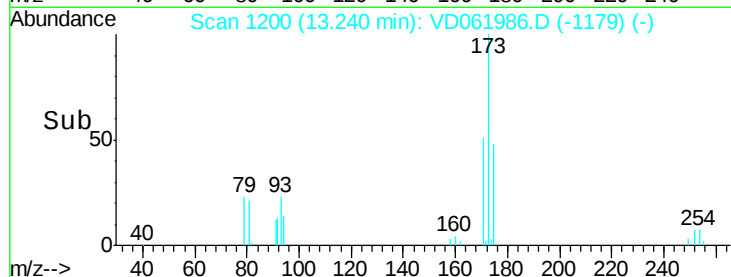
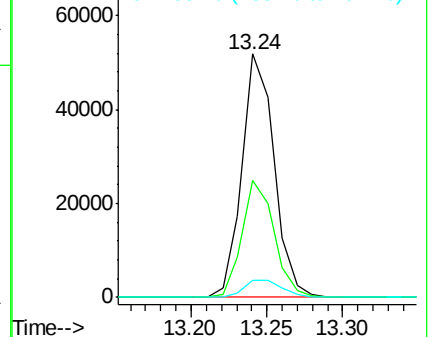
173 100

175 48.2 24.4 73.4

254 7.1 5.4 8.2



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: 14.53 min Scan# 1331

Delta R.T. 0.01 min

Lab File: VD061986.D

Acq: 24 Apr 2019 1:59

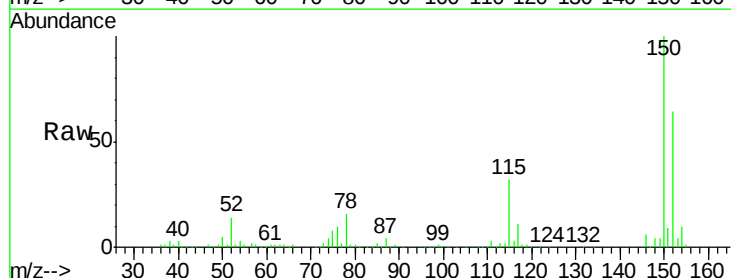
Tgt Ion:152 Resp: 375405

Ion Ratio Lower Upper

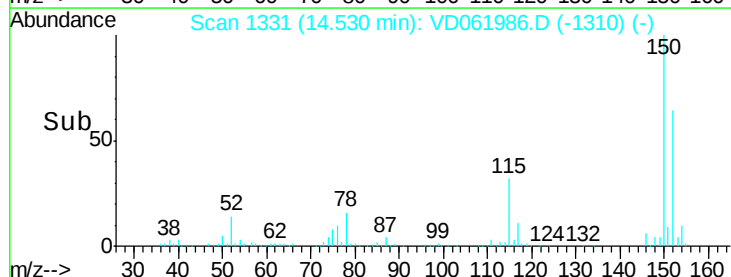
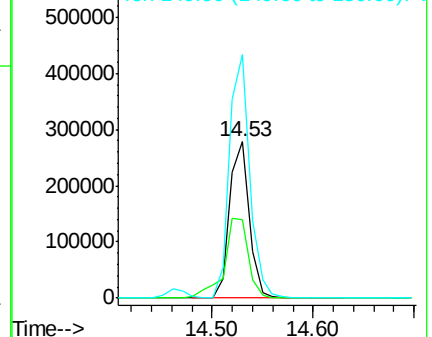
152 100

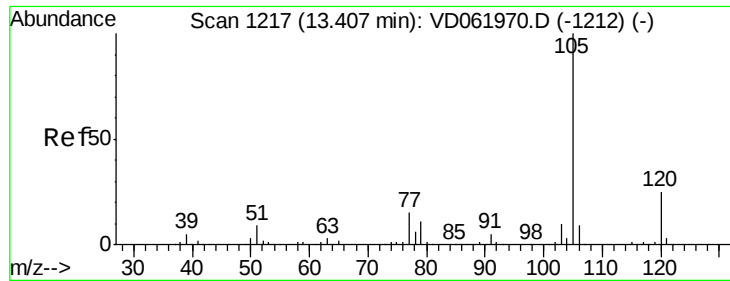
115 50.6 30.9 92.7

150 155.9 0.0 314.8



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: 19.214 ug/l

RT: 13.41 min Scan# 1217

Delta R.T. 0.01 min

Lab File: VD061986.D

Acq: 24 Apr 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

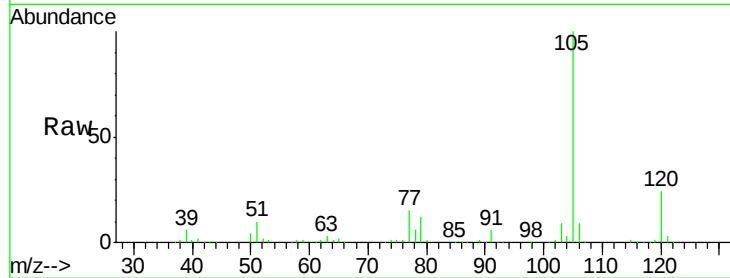
VD0423SBS02

Tot Ion:105 Resp: 481167

Ion Ratio Lower Upper

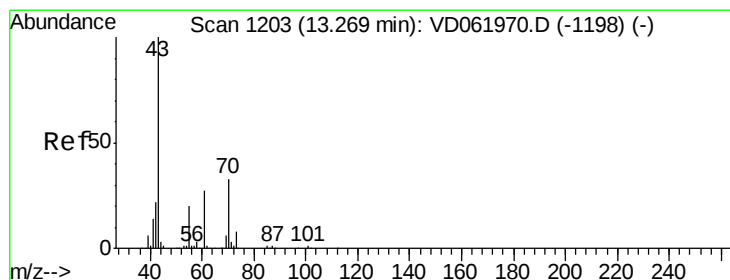
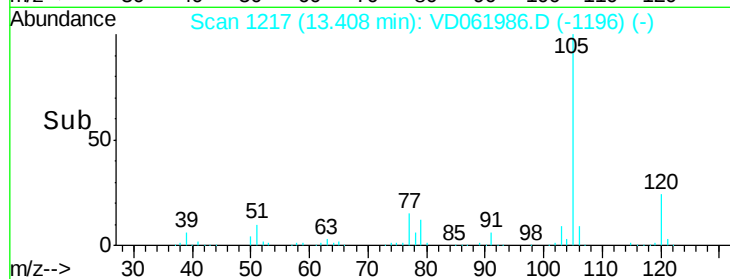
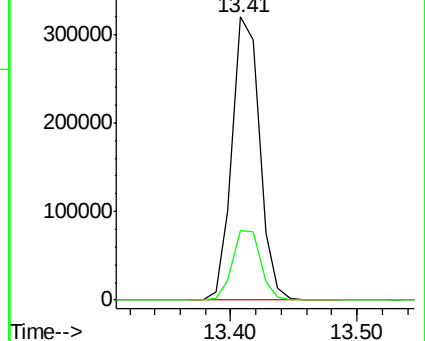
105 100

120 24.4 12.0 36.1



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 21.177 ug/l

RT: 13.27 min Scan# 1203

Delta R.T. 0.01 min

Lab File: VD061986.D

Acq: 24 Apr 2019 1:59

Tgt Ion: 43 Resp: 136574

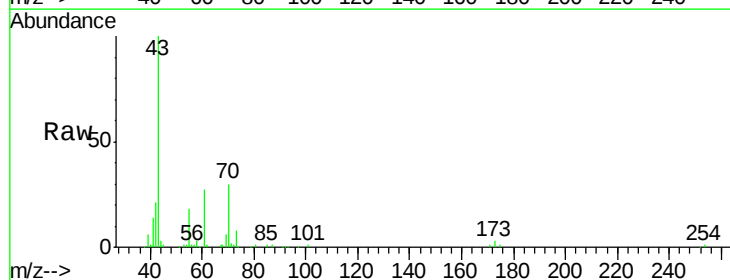
Ion Ratio Lower Upper

43 100

70 30.2 24.2 36.4

55 18.1 16.0 24.0

61 26.6 21.6 32.4

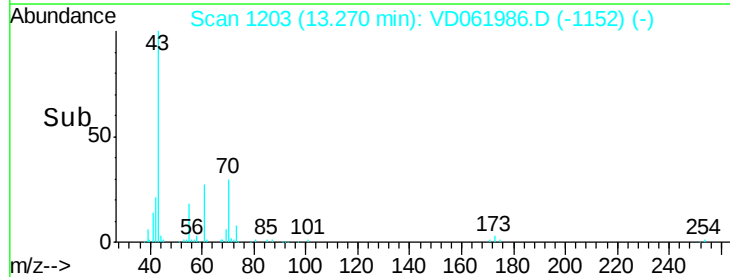
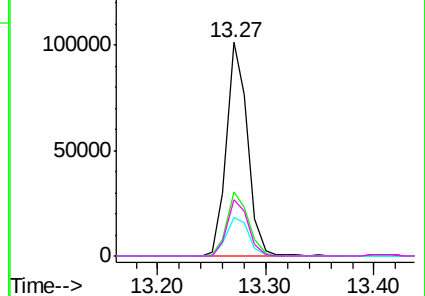


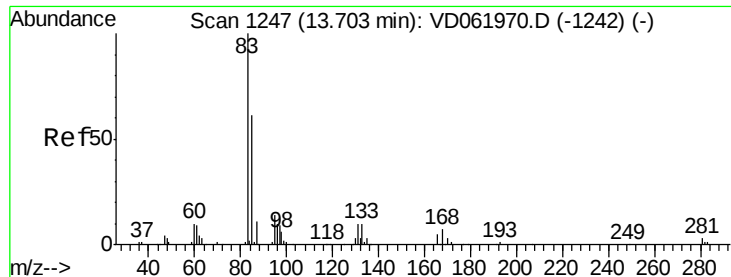
Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V





#75

1,1,2,2-Tetrachloroethane

Concen: 19.153 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. 0.01 min

Lab File: VD061986.D

Acq: 24 Apr 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

VD0423SBS02

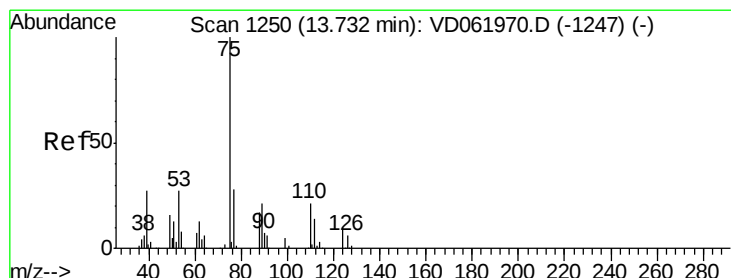
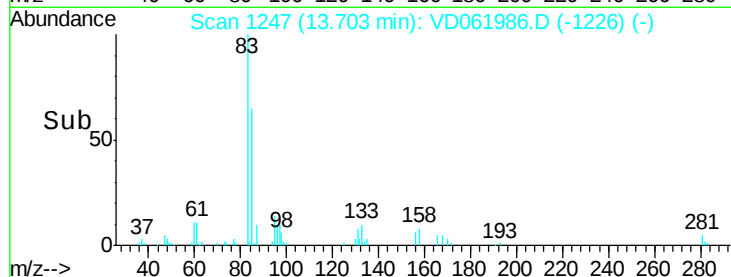
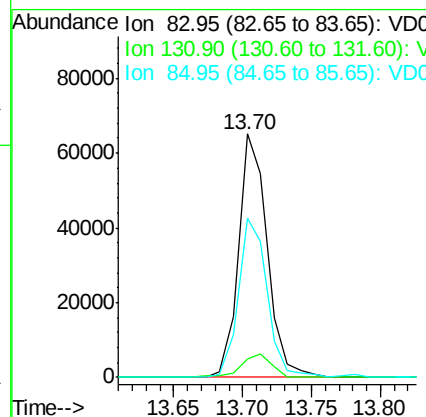
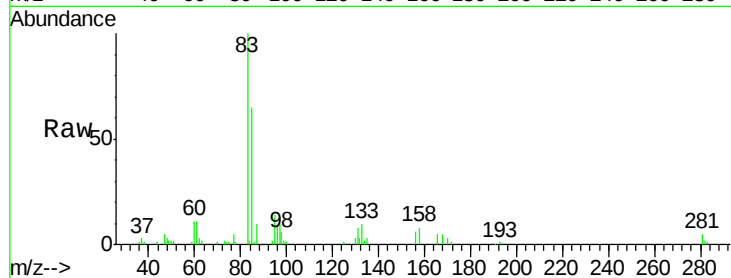
Tot Ion: 83 Resp: 93989

Ion Ratio Lower Upper

83 100

131 7.6 5.0 14.9

85 65.3 32.6 97.7



#76

1,2,3-Trichloropropane

Concen: 20.388 ug/l

RT: 13.74 min Scan# 1251

Delta R.T. 0.01 min

Lab File: VD061986.D

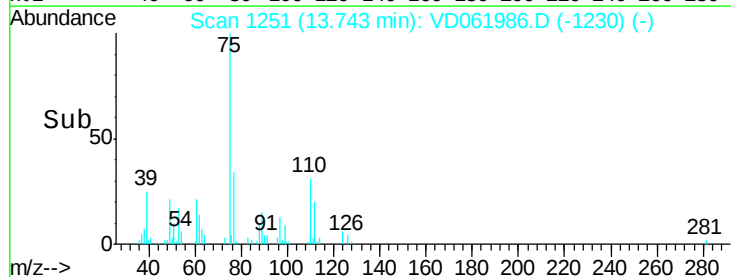
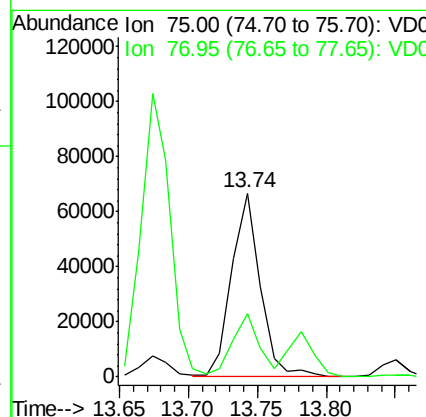
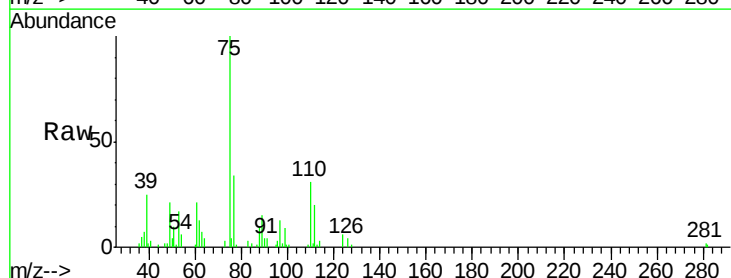
Acq: 24 Apr 2019 1:59

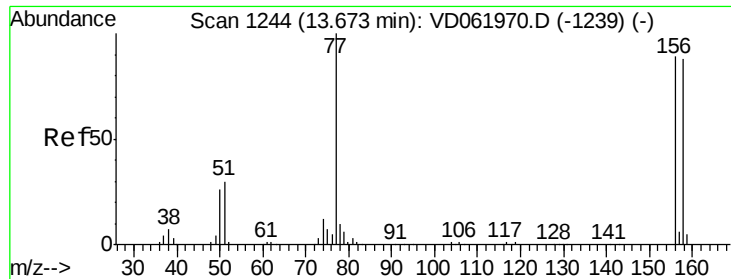
Tgt Ion: 75 Resp: 97192

Ion Ratio Lower Upper

75 100

77 34.1 16.4 49.4





#77

Bromobenzene

Concen: 17.260 ug/l

RT: 13.68 min Scan# 1245

Delta R.T. 0.02 min

Lab File: VD061986.D

Acq: 24 Apr 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

VD0423SBSD02

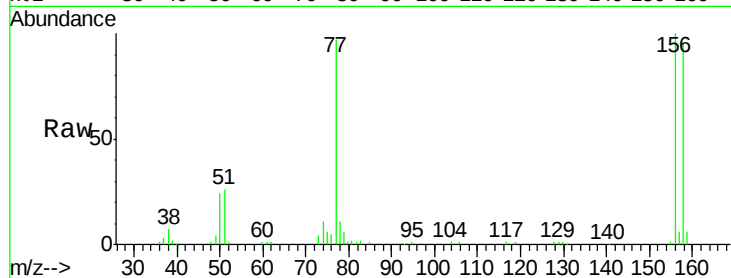
Tot Ion:156 Resp: 123995

Ion Ratio Lower Upper

156 100

77 96.8 53.1 159.4

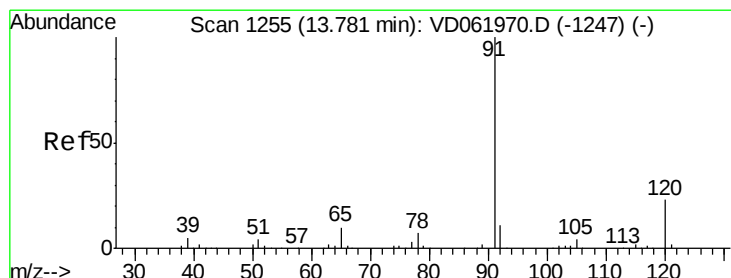
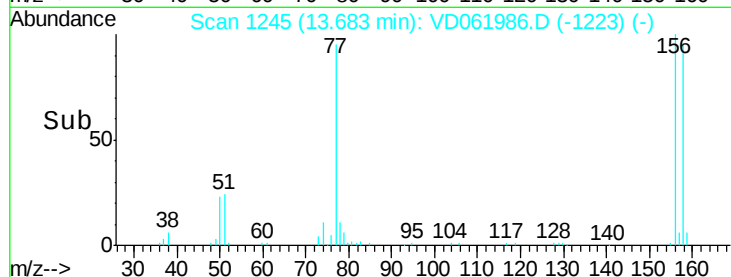
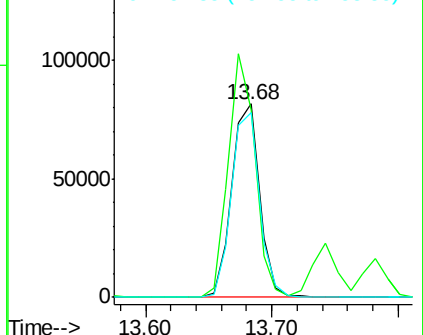
158 95.6 49.4 148.0



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 19.931 ug/l

RT: 13.78 min Scan# 1255

Delta R.T. 0.01 min

Lab File: VD061986.D

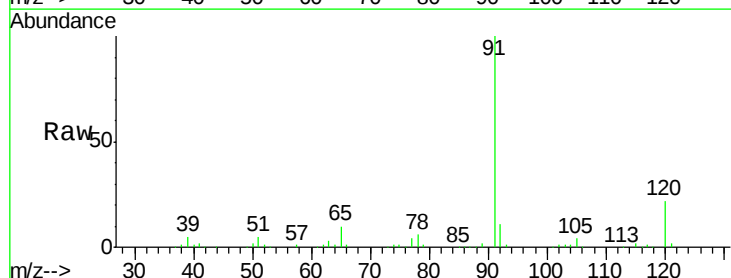
Acq: 24 Apr 2019 1:59

Tgt Ion: 91 Resp: 571378

Ion Ratio Lower Upper

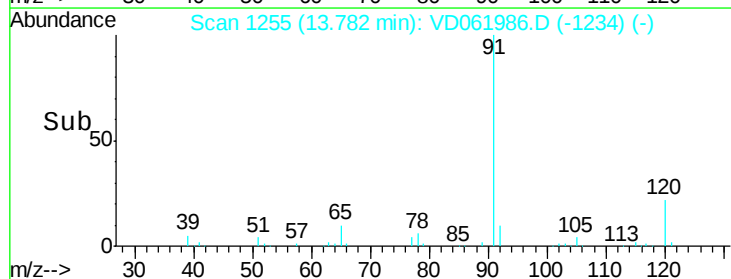
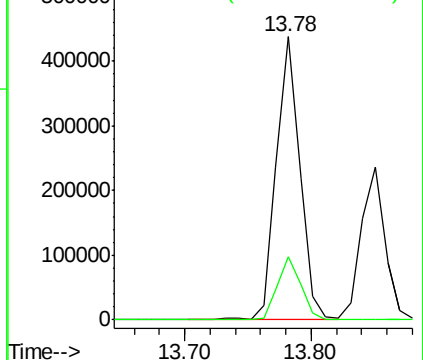
91 100

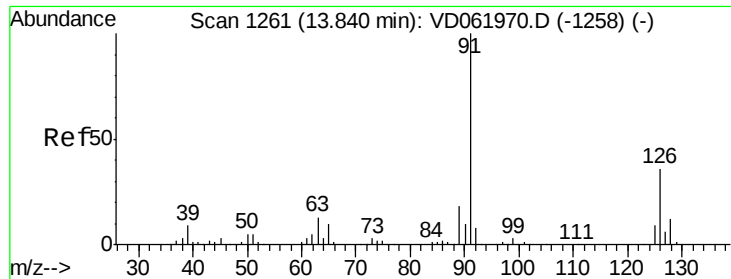
120 22.2 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V

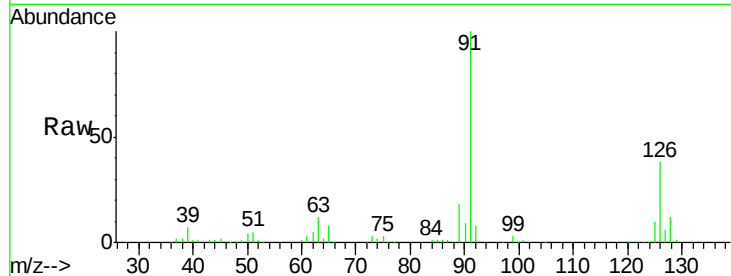




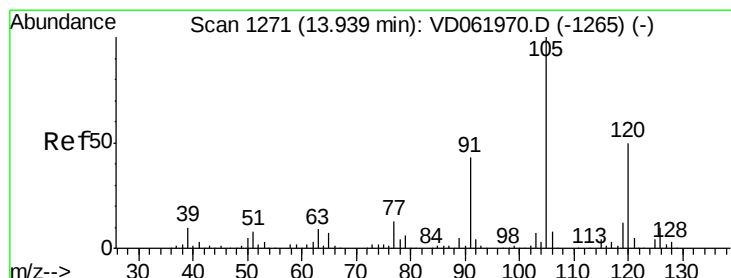
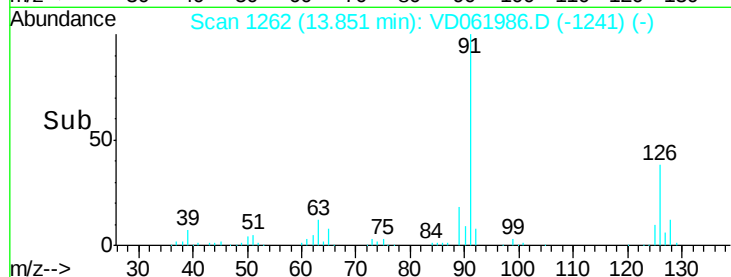
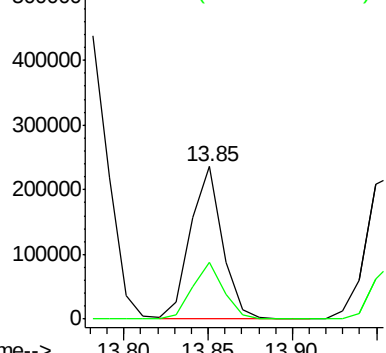
#79
2-Chlorotoluene
Concen: 17.757 ug/l
RT: 13.85 min Scan# 1262
Delta R.T. 0.01 min
Lab File: VD061986.D
Acq: 24 Apr 2019 1:59

Instrument :
MSVOA_D
ClientSampleId :
VD0423SBSD02

Tot Ion: 91 Resp: 308332
Ion Ratio Lower Upper
91 100
126 37.6 18.6 55.8

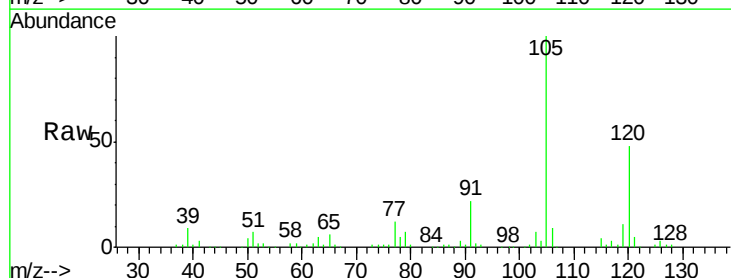


Abundance Ion 91.00 (90.70 to 91.70): VD061970.D (-1258) (-)
Ion 125.95 (125.65 to 126.65): VD061970.D (-1258) (-)

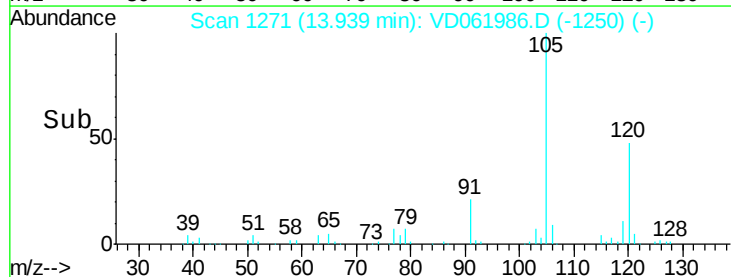
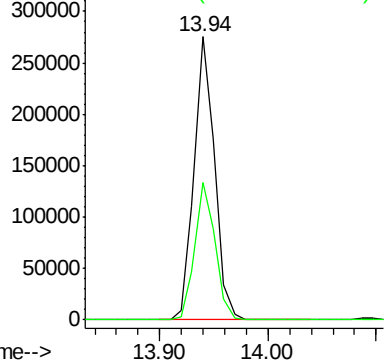


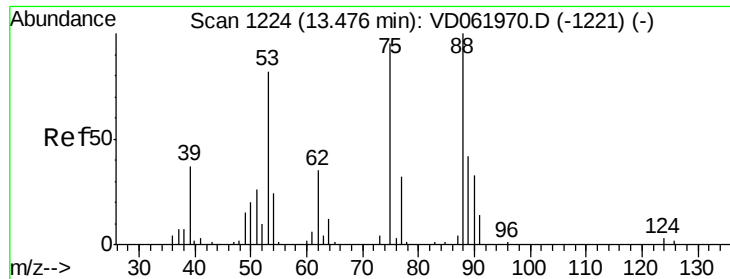
#80
1,3,5-Trimethylbenzene
Concen: 18.119 ug/l
RT: 13.94 min Scan# 1271
Delta R.T. 0.01 min
Lab File: VD061986.D
Acq: 24 Apr 2019 1:59

Tgt Ion:105 Resp: 361787
Ion Ratio Lower Upper
105 100
120 48.4 24.0 72.0



Abundance Ion 105.05 (104.75 to 105.75): VD061970.D (-1265) (-)
Ion 120.05 (119.75 to 120.75): VD061970.D (-1265) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 18.604 ug/l

RT: 13.49 min Scan# 1225

Delta R.T. 0.01 min

Lab File: VD061986.D

Acq: 24 Apr 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

VD0423SBSD02

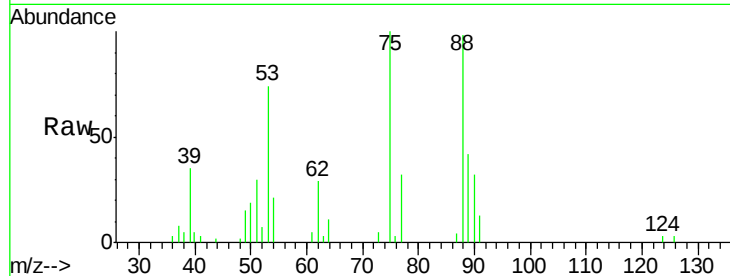
Tot Ion: 75 Resp: 26875

Ion Ratio Lower Upper

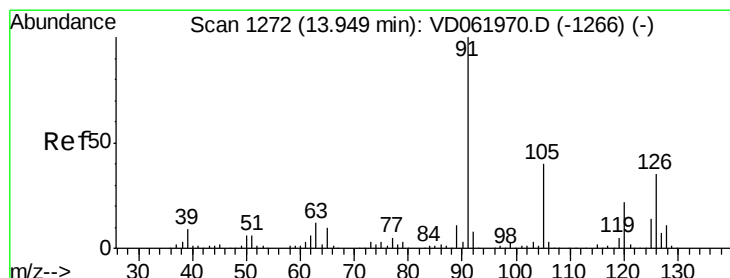
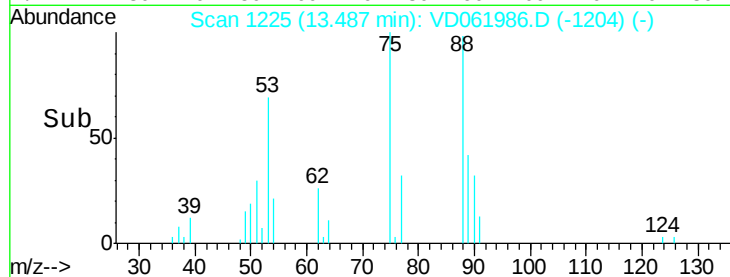
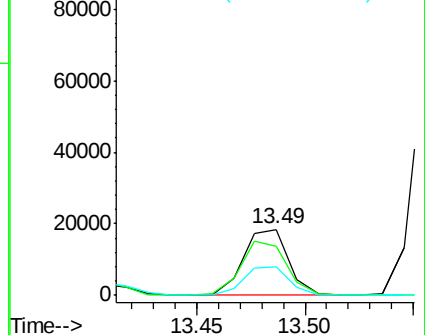
75 100

53 73.6 65.8 98.8

89 42.4 35.0 52.6



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: 17.833 ug/l

RT: 13.96 min Scan# 1273

Delta R.T. 0.01 min

Lab File: VD061986.D

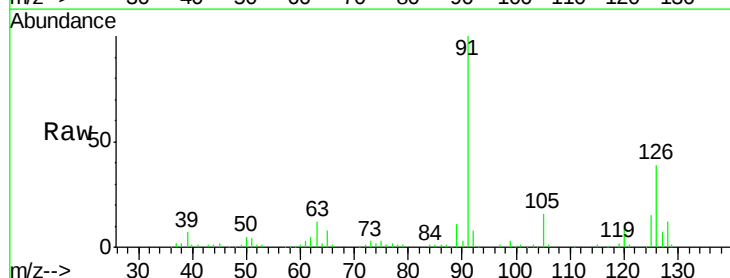
Acq: 24 Apr 2019 1:59

Tgt Ion: 91 Resp: 341024

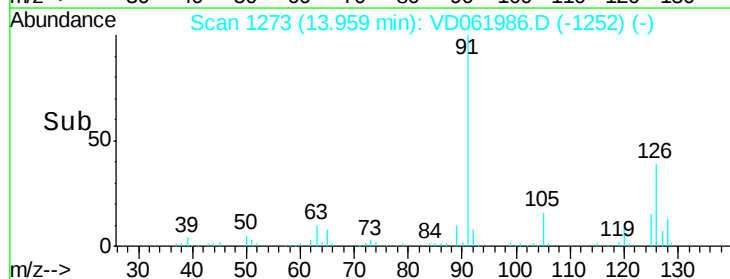
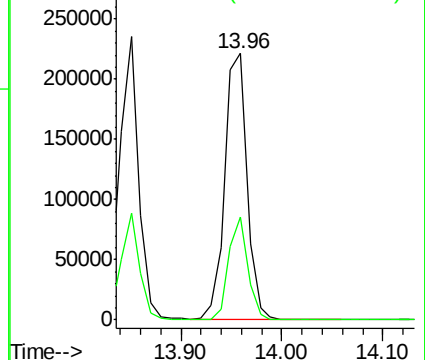
Ion Ratio Lower Upper

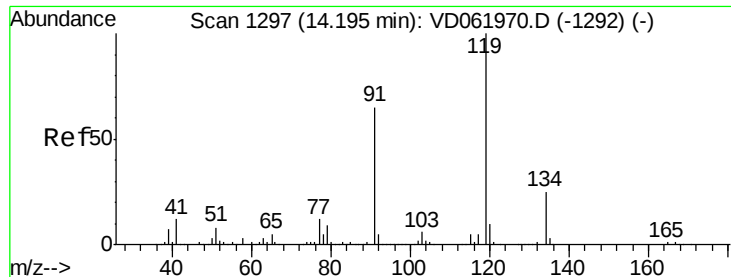
91 100

126 38.8 19.1 57.5



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





#83

tert-Butylbenzene

Concen: 18.875 ug/l

RT: 14.20 min Scan# 1297

Delta R.T. 0.01 min

Lab File: VD061986.D

Acq: 24 Apr 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

VD0423SBS02

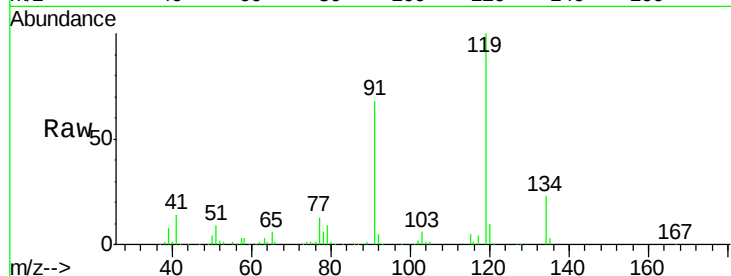
Tot Ion:119 Resp: 436604

Ion Ratio Lower Upper

119 100

91 68.5 34.2 102.6

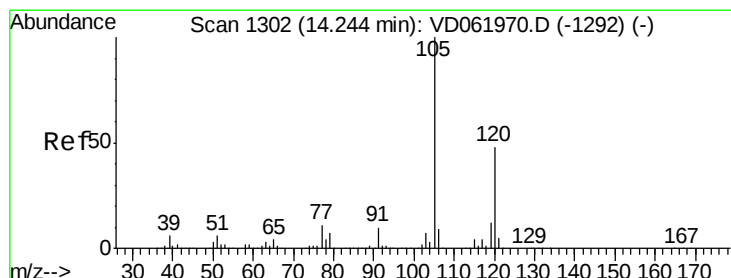
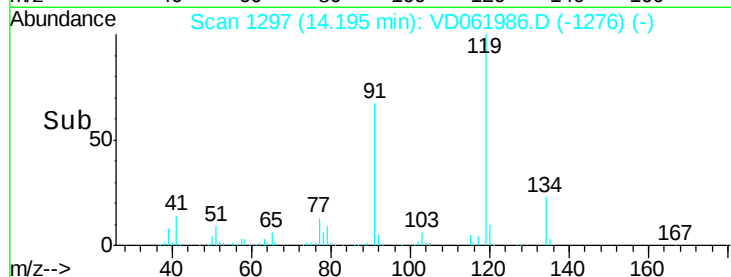
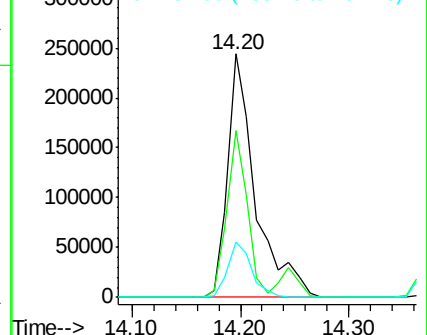
134 22.8 12.0 36.0



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 19.100 ug/l

RT: 14.24 min Scan# 1302

Delta R.T. 0.01 min

Lab File: VD061986.D

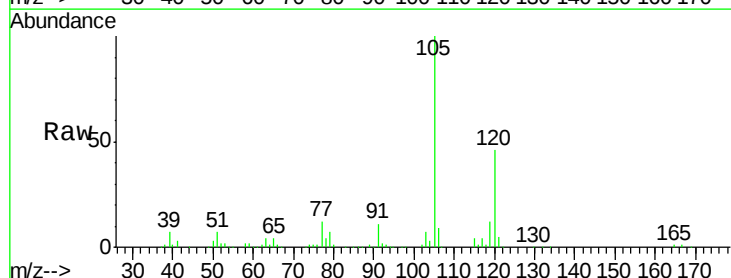
Acq: 24 Apr 2019 1:59

Tgt Ion:105 Resp: 364152

Ion Ratio Lower Upper

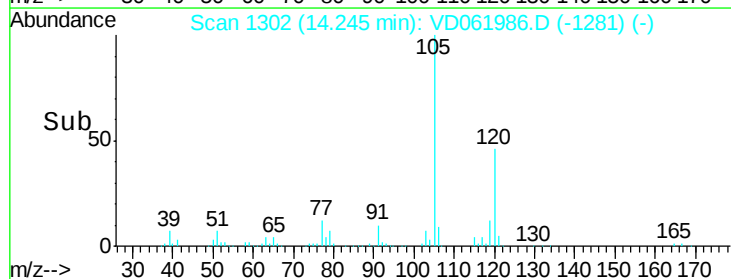
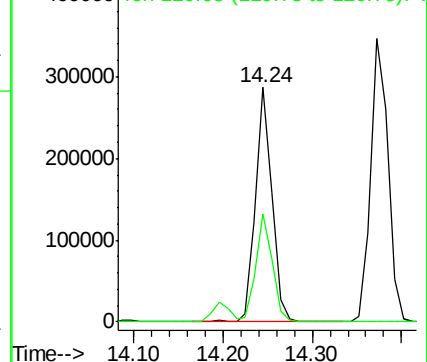
105 100

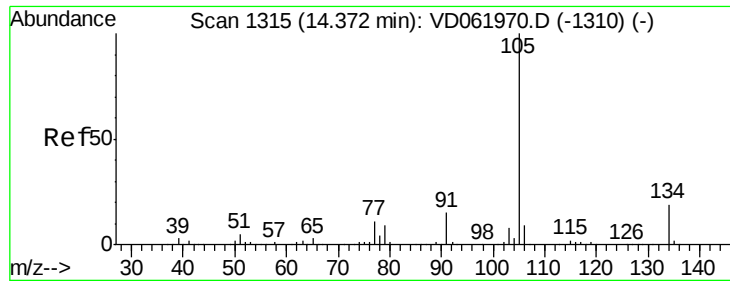
120 45.9 23.1 69.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

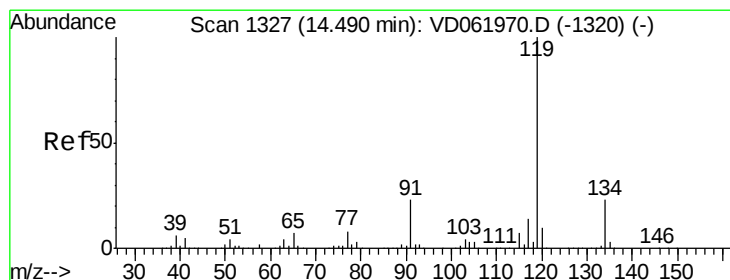
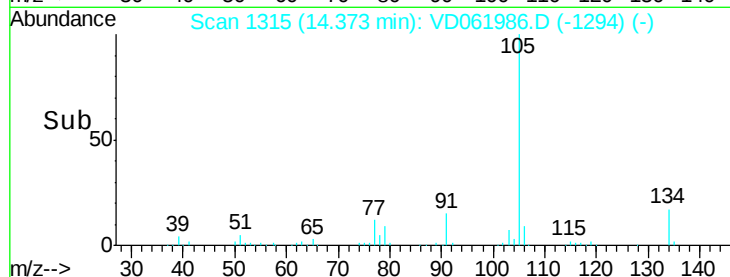
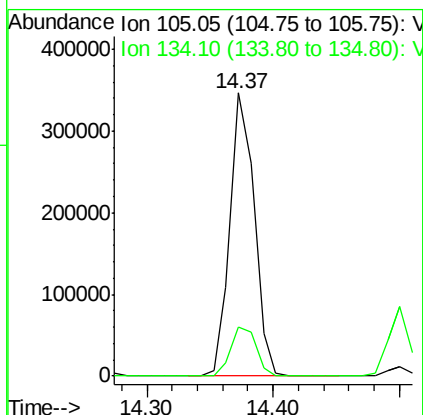
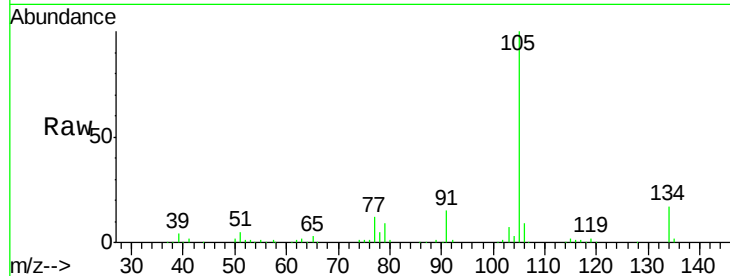




#85
 sec-Butylbenzene
 Concen: 18.478 ug/l
 RT: 14.37 min Scan# 1315
 Delta R.T. 0.01 min
 Lab File: VD061986.D
 Acq: 24 Apr 2019 1:59

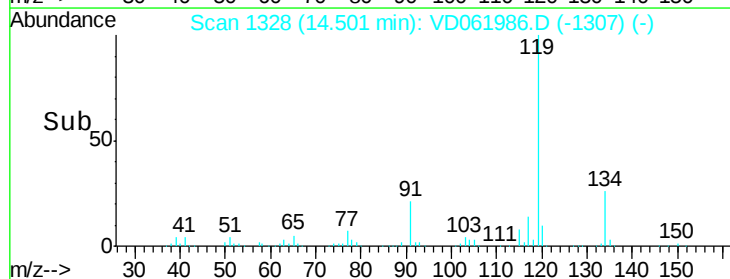
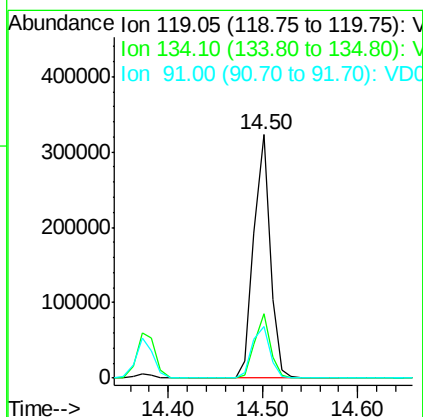
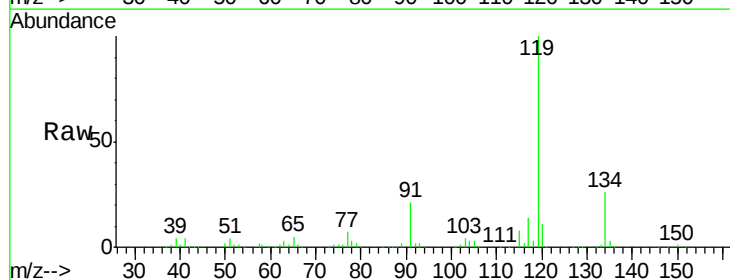
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0423SBSD02

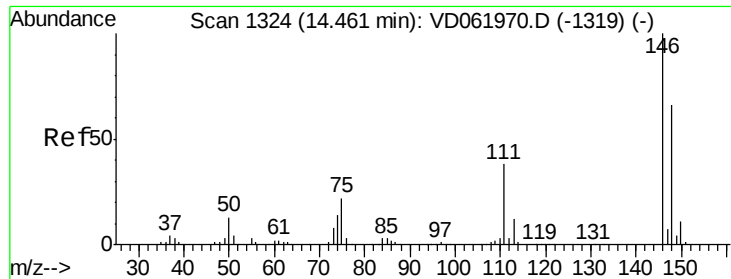
Tot Ion:105 Resp: 461831
 Ion Ratio Lower Upper
 105 100
 134 17.2 8.9 26.7



#86
 p-Isopropyltoluene
 Concen: 17.441 ug/l
 RT: 14.50 min Scan# 1328
 Delta R.T. 0.01 min
 Lab File: VD061986.D
 Acq: 24 Apr 2019 1:59

Tgt Ion:119 Resp: 390122
 Ion Ratio Lower Upper
 119 100
 134 26.2 12.8 38.3
 91 21.4 10.7 32.1





#87

1,3-Dichlorobenzene

Concen: 17.805 ug/l

RT: 14.46 min Scan# 1324

Delta R.T. 0.01 min

Lab File: VD061986.D

Acq: 24 Apr 2019 1:59

Instrument :

MSVOA_D

ClientSampleId :

VD0423SBSD02

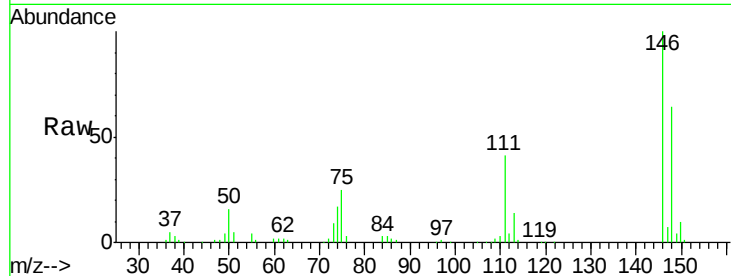
Tot Ion:146 Resp: 223986

Ion Ratio Lower Upper

146 100

111 40.9 20.0 60.0

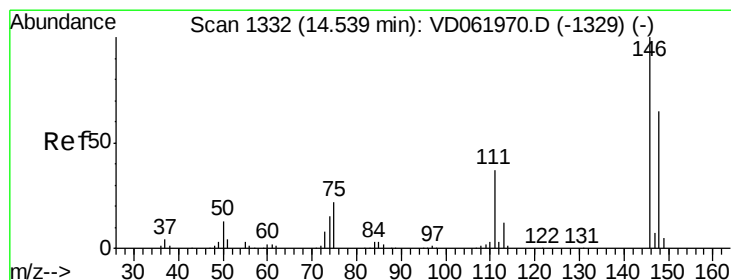
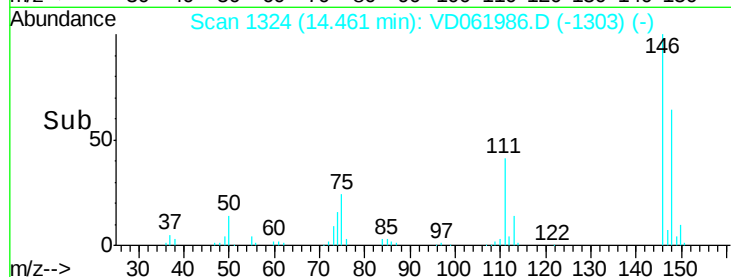
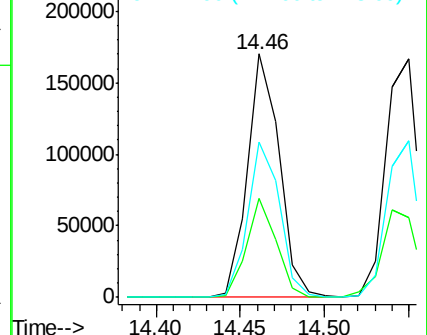
148 63.7 31.8 95.4



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: 19.567 ug/l

RT: 14.55 min Scan# 1333

Delta R.T. 0.01 min

Lab File: VD061986.D

Acq: 24 Apr 2019 1:59

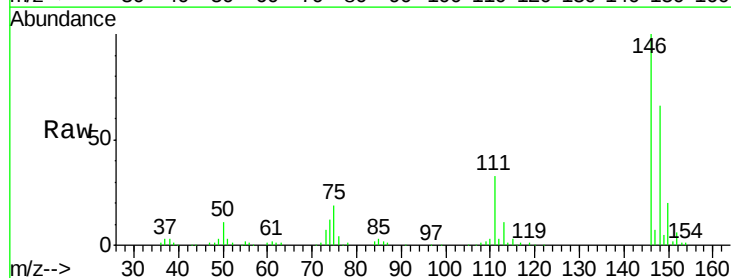
Tgt Ion:146 Resp: 230197

Ion Ratio Lower Upper

146 100

111 33.5 20.2 60.5

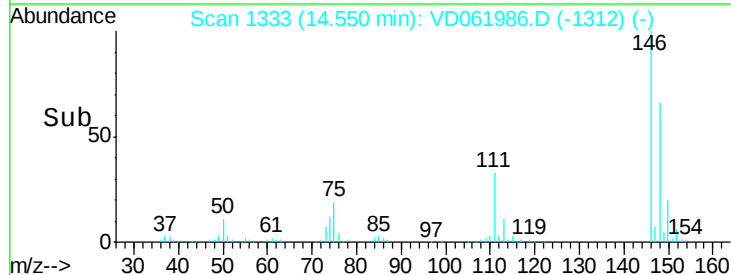
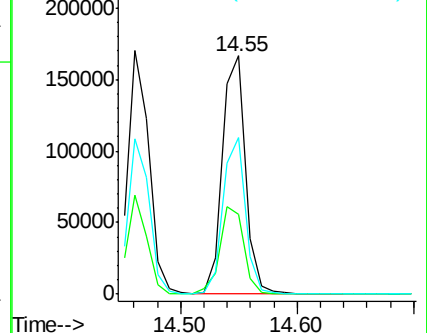
148 65.7 32.0 96.2

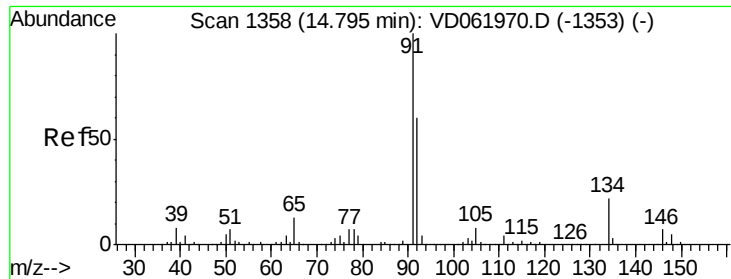


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

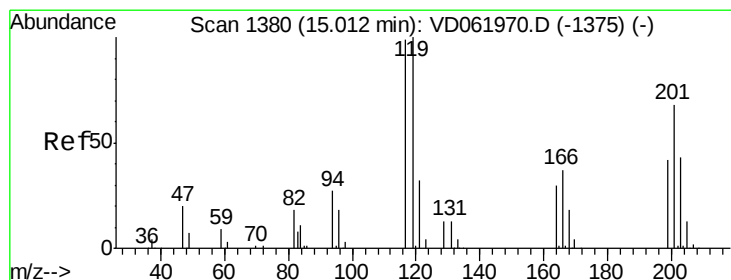
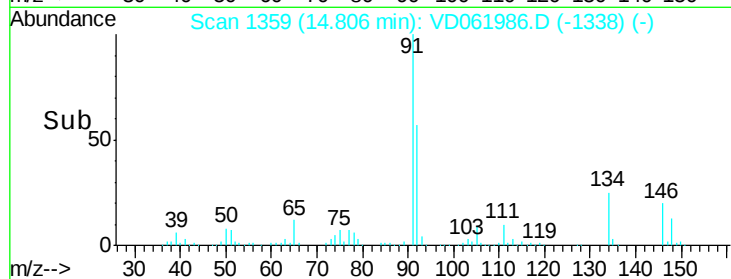
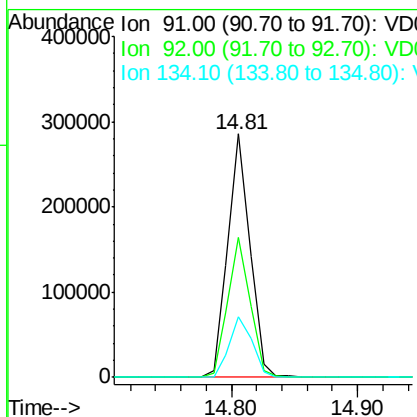
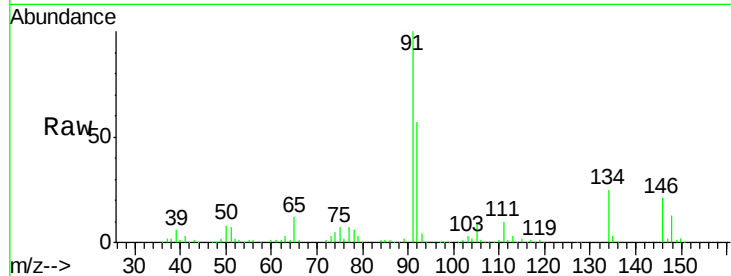




#89
n-Butylbenzene
Concen: 17.241 ug/l
RT: 14.81 min Scan# 1359
Delta R.T. 0.01 min
Lab File: VD061986.D
Acq: 24 Apr 2019 1:59

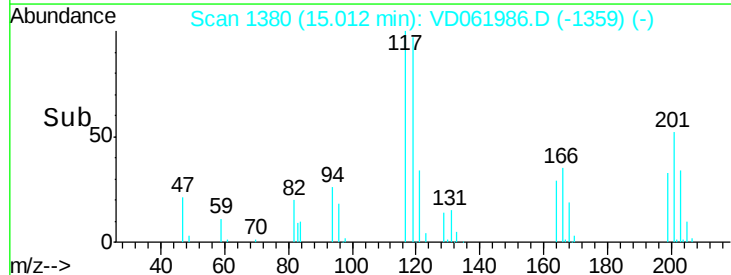
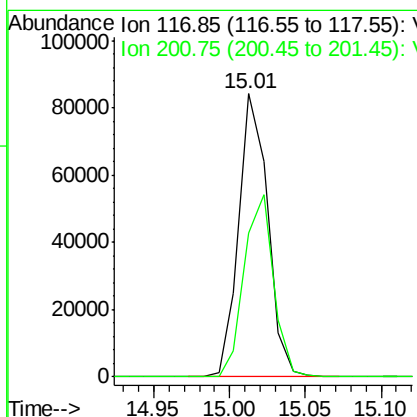
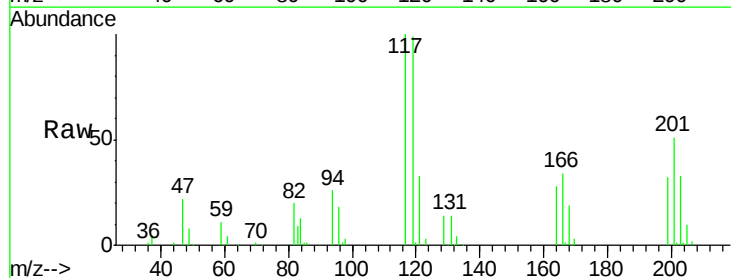
Instrument :
MSVOA_D
ClientSampleId :
VD0423SBS02

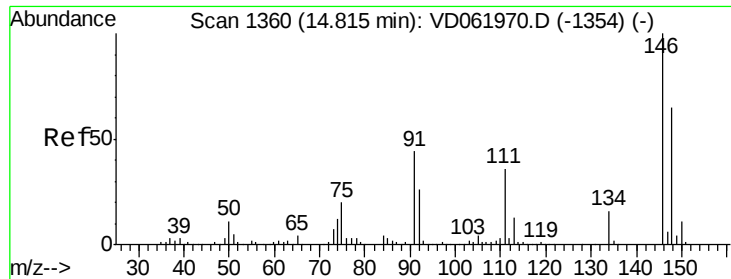
Tot Ion: 91 Resp: 346226
Ion Ratio Lower Upper
91 100
92 57.3 30.3 91.0
134 24.7 14.5 43.6



#90
Hexachloroethane
Concen: 18.538 ug/l
RT: 15.01 min Scan# 1380
Delta R.T. 0.01 min
Lab File: VD061986.D
Acq: 24 Apr 2019 1:59

Tgt Ion: 117 Resp: 112128
Ion Ratio Lower Upper
117 100
201 50.7 30.2 90.6

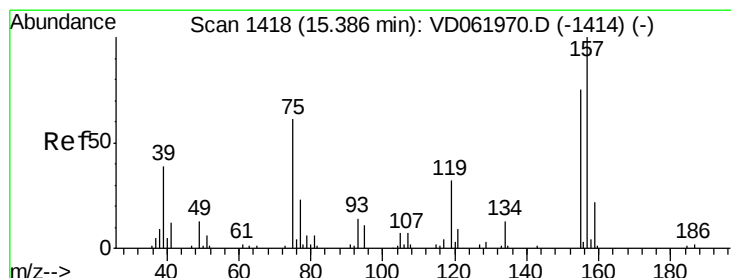
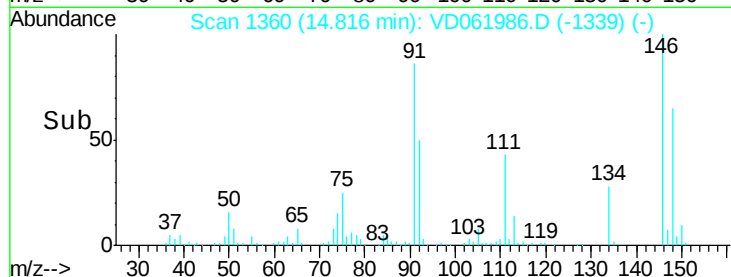
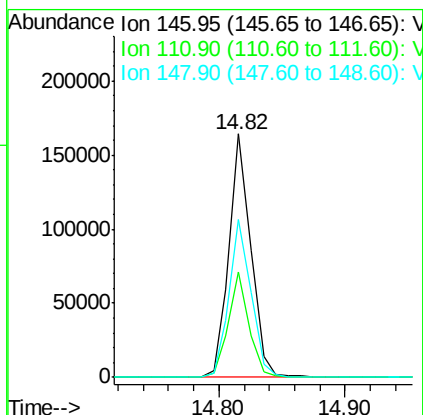
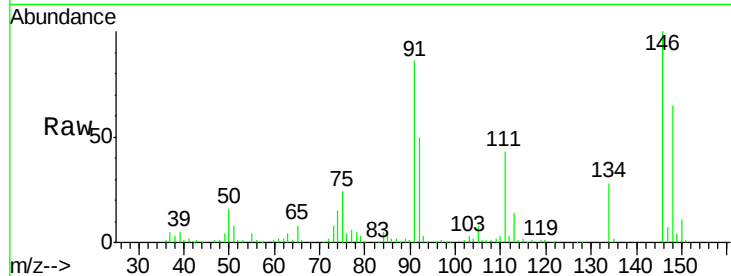




#91
 1,2-Dichlorobenzene
 Concen: 18.901 ug/l
 RT: 14.82 min Scan# 1360
 Delta R.T. 0.01 min
 Lab File: VD061986.D
 Acq: 24 Apr 2019 1:59

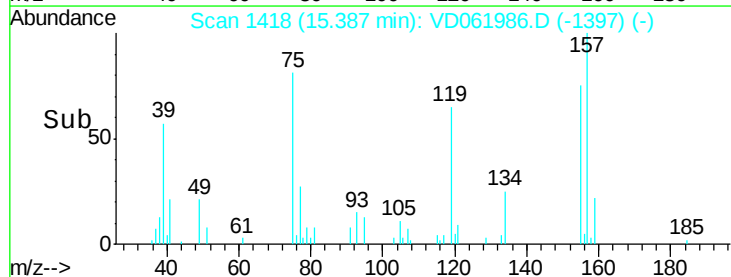
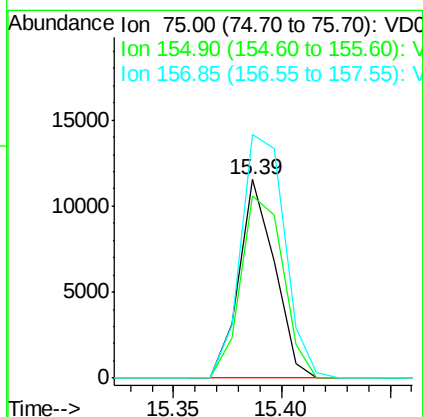
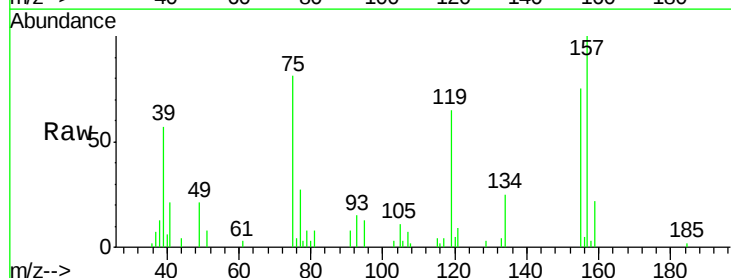
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0423SBSD02

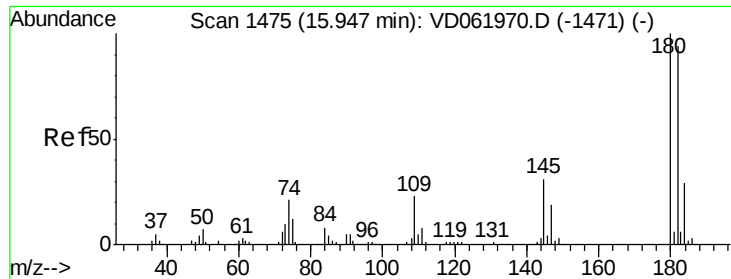
Tot Ion:146 Resp: 196138
 Ion Ratio Lower Upper
 146 100
 111 43.2 20.0 59.9
 148 64.7 32.3 96.8



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.858 ug/l
 RT: 15.39 min Scan# 1418
 Delta R.T. 0.01 min
 Lab File: VD061986.D
 Acq: 24 Apr 2019 1:59

Tgt Ion: 75 Resp: 13181
 Ion Ratio Lower Upper
 75 100
 155 92.1 55.3 165.8
 157 122.8 67.8 203.2

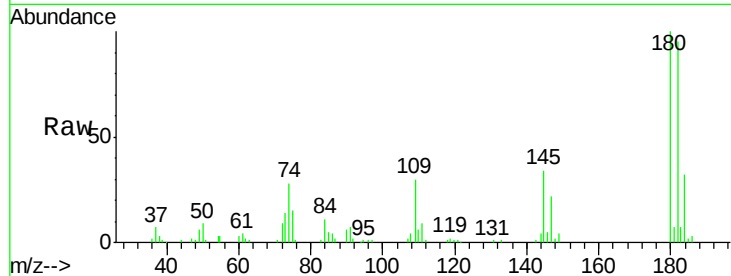




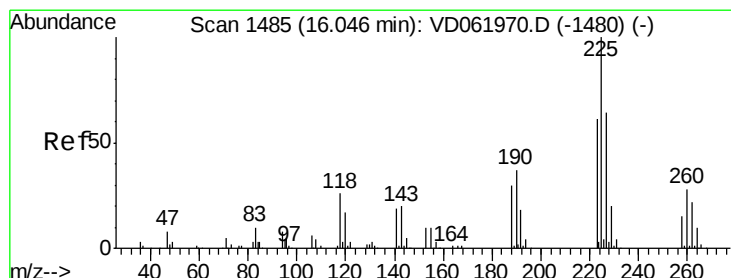
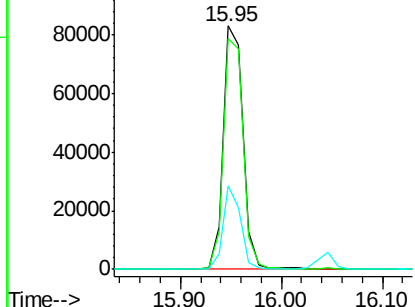
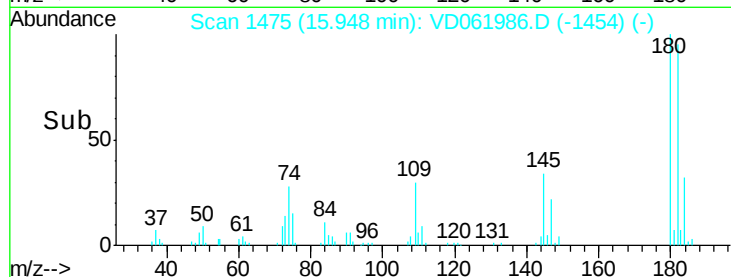
#93
 1,2,4-Trichlorobenzene
 Concen: 20.158 ug/l
 RT: 15.95 min Scan# 1475
 Delta R.T. 0.01 min
 Lab File: VD061986.D
 Acq: 24 Apr 2019 1:59

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0423SBS02

Tot Ion:180 Resp: 112867
 Ion Ratio Lower Upper
 180 100
 182 95.0 49.3 147.8
 145 34.5 16.2 48.6

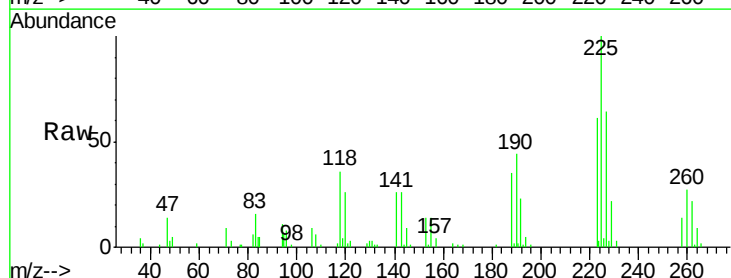


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

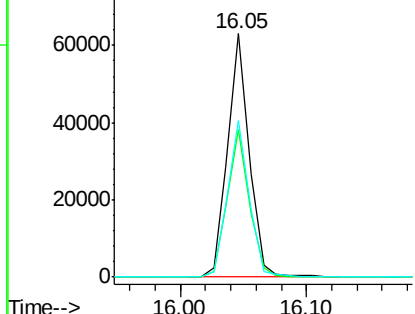
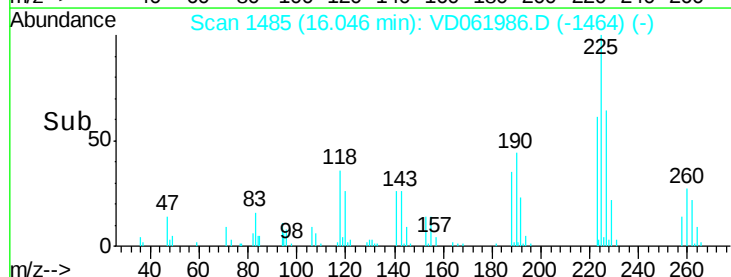


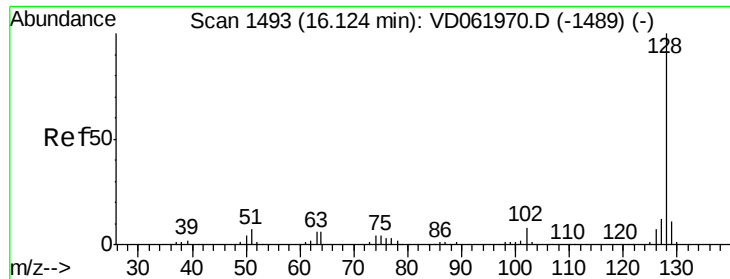
#94
 Hexachlorobutadiene
 Concen: 17.930 ug/l
 RT: 16.05 min Scan# 1485
 Delta R.T. 0.01 min
 Lab File: VD061986.D
 Acq: 24 Apr 2019 1:59

Tgt Ion:225 Resp: 74294
 Ion Ratio Lower Upper
 225 100
 223 60.7 30.6 92.0
 227 64.2 32.0 96.2



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

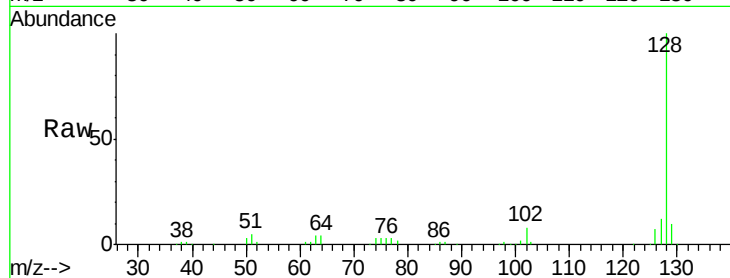




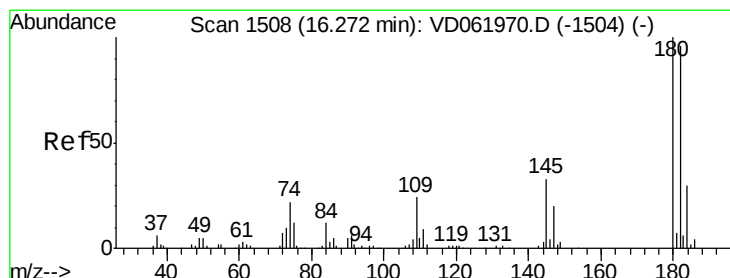
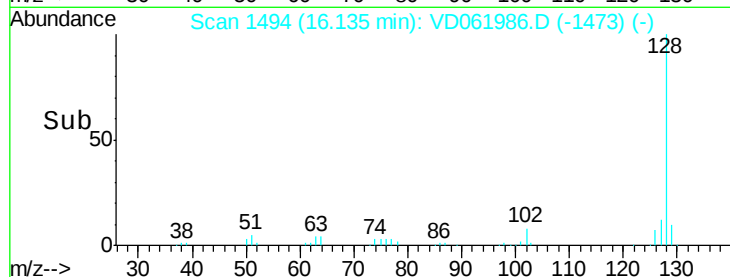
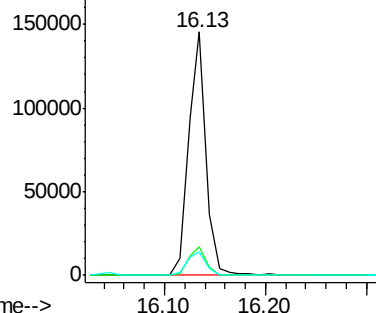
#95
Naphthalene
Concen: 19.411 ug/l
RT: 16.13 min Scan# 1494
Delta R.T. 0.01 min
Lab File: VD061986.D
Acq: 24 Apr 2019 1:59

Instrument :
MSVOA_D
ClientSampleId :
VD0423SBSD02

Tot Ion:128 Resp: 175484
Ion Ratio Lower Upper
128 100
127 11.8 9.8 14.8
129 9.9 8.8 13.2

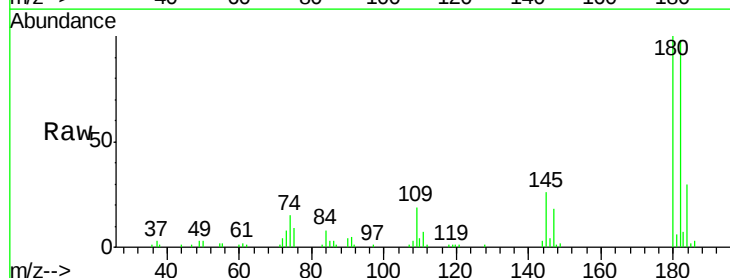


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 20.165 ug/l
RT: 16.28 min Scan# 1509
Delta R.T. 0.02 min
Lab File: VD061986.D
Acq: 24 Apr 2019 1:59

Tgt Ion:180 Resp: 64061
Ion Ratio Lower Upper
180 100
182 98.4 47.0 141.0
145 26.1 17.0 51.0



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

