

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD070319\
 Data File : VD063018.D
 Acq On : 3 Jul 2019 11:58
 Operator : VA/AP
 Sample : VD0703SBS01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0703SBS01

Quant Time: Jul 04 00:44:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 01:50:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	915040	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	1211301	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	1032571	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	572325	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	420505	42.28	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	84.56%	
35) Dibromofluoromethane	6.92	113	484077	47.40	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	94.80%	
50) Toluene-d8	10.40	98	960909	43.23	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	86.46%	
62) 4-Bromofluorobenzene	13.55	95	445984	44.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.24%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	224070	18.923	ug/l	99
3) Chloromethane	1.74	50	165735	18.611	ug/l	95
4) Vinyl Chloride	1.84	62	157620	17.852	ug/l	99
5) Bromomethane	2.15	94	62579	15.134	ug/l	88
6) Chloroethane	2.25	64	82063	20.529	ug/l	99
7) Trichlorofluoromethane	2.52	101	355967	19.921	ug/l	94
8) Diethyl Ether	2.86	74	45912	20.222	ug/l	77
9) 1,1,2-Trichlorotrifluoroet	3.14	101	191270	19.758	ug/l	92
10) Methyl Iodide	3.30	142	238478	18.673	ug/l	95
11) Tert butyl alcohol	4.08	59	46837	103.392	ug/l #	91
12) 1,1-Dichloroethene	3.12	96	139266	19.177	ug/l	99
13) Acrolein	3.03	56	32923	71.190	ug/l	85
14) Allyl chloride	3.61	41	212417	19.796	ug/l	98
15) Acrylonitrile	4.19	53	108630	102.054	ug/l	92
16) Acetone	3.23	43	191261	90.356	ug/l	96
17) Carbon Disulfide	3.37	76	414422	17.856	ug/l #	94
18) Methyl Acetate	3.64	43	83517	27.815	ug/l	97
19) Methyl tert-butyl Ether	4.24	73	311523	19.816	ug/l	99
20) Methylene Chloride	3.81	84	145571	19.191	ug/l	97
21) trans-1,2-Dichloroethene	4.21	96	145219	18.780	ug/l	88
22) Diisopropyl ether	5.12	45	445481	20.414	ug/l	99
23) Vinyl Acetate	5.06	43	1247081	91.328	ug/l	98
24) 1,1-Dichloroethane	4.98	63	266562	18.762	ug/l	97
25) 2-Butanone	6.07	43	203037	109.144	ug/l	93
26) 2,2-Dichloropropane	6.02	77	317254	21.067	ug/l	97
27) cis-1,2-Dichloroethene	6.03	96	160317	19.606	ug/l	86
28) Bromochloromethane	6.44	49	108322	21.647	ug/l	81
29) Tetrahydrofuran	6.47	42	90940	103.321	ug/l	95
30) Chloroform	6.66	83	351731	20.356	ug/l	98
31) Cyclohexane	6.95	56	180806	19.358	ug/l	93
32) 1,1,1-Trichloroethane	6.87	97	340050	18.895	ug/l	95
36) 1,1-Dichloropropene	7.15	75	223776	19.515	ug/l	97
37) Ethyl Acetate	6.18	43	94919	19.023	ug/l	96
38) Carbon Tetrachloride	7.11	117	338532	19.630	ug/l	99

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Quant Time: Jul 04 00:44:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 01:50:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.86	83	204191	20.230	ug/l	96
40) Benzene	7.45	78	452449	19.657	ug/l	97
41) Methacrylonitrile	6.46	41	128264	21.211	ug/l #	86
42) 1,2-Dichloroethane	7.58	62	258559	20.592	ug/l	100
43) Isopropyl Acetate	9.24	43	127884	21.273	ug/l #	99
44) Trichloroethene	8.54	130	186082	20.621	ug/l	89
45) 1,2-Dichloropropane	8.94	63	113532	19.837	ug/l	95
46) Dibromomethane	9.07	93	102340	20.816	ug/l	85
47) Bromodichloromethane	9.38	83	260476	20.400	ug/l	97
48) Methyl methacrylate	9.12	41	85918	20.112	ug/l #	89
49) 1,4-Dioxane	9.08	88	14539	409.068	ug/l	97
51) 4-Methyl-2-Pentanone	10.31	43	435314	102.134	ug/l	99
52) Toluene	10.51	92	323606	20.915	ug/l	97
53) t-1,3-Dichloropropene	10.92	75	215018	20.574	ug/l	95
54) cis-1,3-Dichloropropene	10.04	75	220902	19.447	ug/l	88
55) 1,1,2-Trichloroethane	11.19	97	105233	19.797	ug/l	95
56) Ethyl methacrylate	11.04	69	115941	20.409	ug/l	97
57) 1,3-Dichloropropane	11.41	76	168520	20.705	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.86	63	281865	96.648	ug/l	98
59) 2-Hexanone	11.54	43	325395	107.197	ug/l	96
60) Dibromochloromethane	11.68	129	201324	20.333	ug/l	99
61) 1,2-Dibromoethane	11.80	107	124940	19.901	ug/l	90
64) Tetrachloroethene	11.26	164	174988	20.591	ug/l	92
65) Chlorobenzene	12.40	112	391812	20.446	ug/l	96
66) 1,1,1,2-Tetrachloroethane	12.51	131	172500	19.248	ug/l	91
67) Ethyl Benzene	12.52	91	680787	19.787	ug/l	98
68) m/p-Xylenes	12.67	106	488986	40.806	ug/l	99
69) o-Xylene	13.05	106	208448	19.029	ug/l	95
70) Styrene	13.07	104	371861	19.326	ug/l	97
71) Bromoform	13.24	173	118165	19.245	ug/l	92
73) Isopropylbenzene	13.41	105	702998	19.157	ug/l	99
74) N-amyl acetate	13.27	43	184109	20.659	ug/l	98
75) 1,1,2,2-Tetrachloroethane	13.70	83	125149	20.931	ug/l	98
76) 1,2,3-Trichloropropane	13.73	75	136857	20.714	ug/l	95
77) Bromobenzene	13.67	156	203990	20.667	ug/l	94
78) n-propylbenzene	13.77	91	847281	19.837	ug/l	92
79) 2-Chlorotoluene	13.84	91	497063	20.364	ug/l	99
80) 1,3,5-Trimethylbenzene	13.94	105	616137	19.989	ug/l	96
81) trans-1,4-Dichloro-2-buten	13.48	75	33935	19.597	ug/l	92
82) 4-Chlorotoluene	13.95	91	592264	20.155	ug/l	100
83) tert-Butylbenzene	14.19	119	709201	20.642	ug/l	99
84) 1,2,4-Trimethylbenzene	14.23	105	653051	20.671	ug/l	94
85) sec-Butylbenzene	14.37	105	751023	20.112	ug/l	100
86) p-Isopropyltoluene	14.49	119	711571	20.829	ug/l	99
87) 1,3-Dichlorobenzene	14.46	146	366310	20.703	ug/l	99
88) 1,4-Dichlorobenzene	14.54	146	332000	18.682	ug/l	93
89) n-Butylbenzene	14.80	91	617070	19.299	ug/l	99
90) Hexachloroethane	15.01	117	180027	19.600	ug/l	98
91) 1,2-Dichlorobenzene	14.81	146	296060	19.558	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	15.39	75	23186	19.868	ug/l #	52

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Quant Time: Jul 04 00:44:47 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
Quant Title : SW846 8260
QLast Update : Thu Jun 20 01:50:56 2019
Response via : Initial Calibration

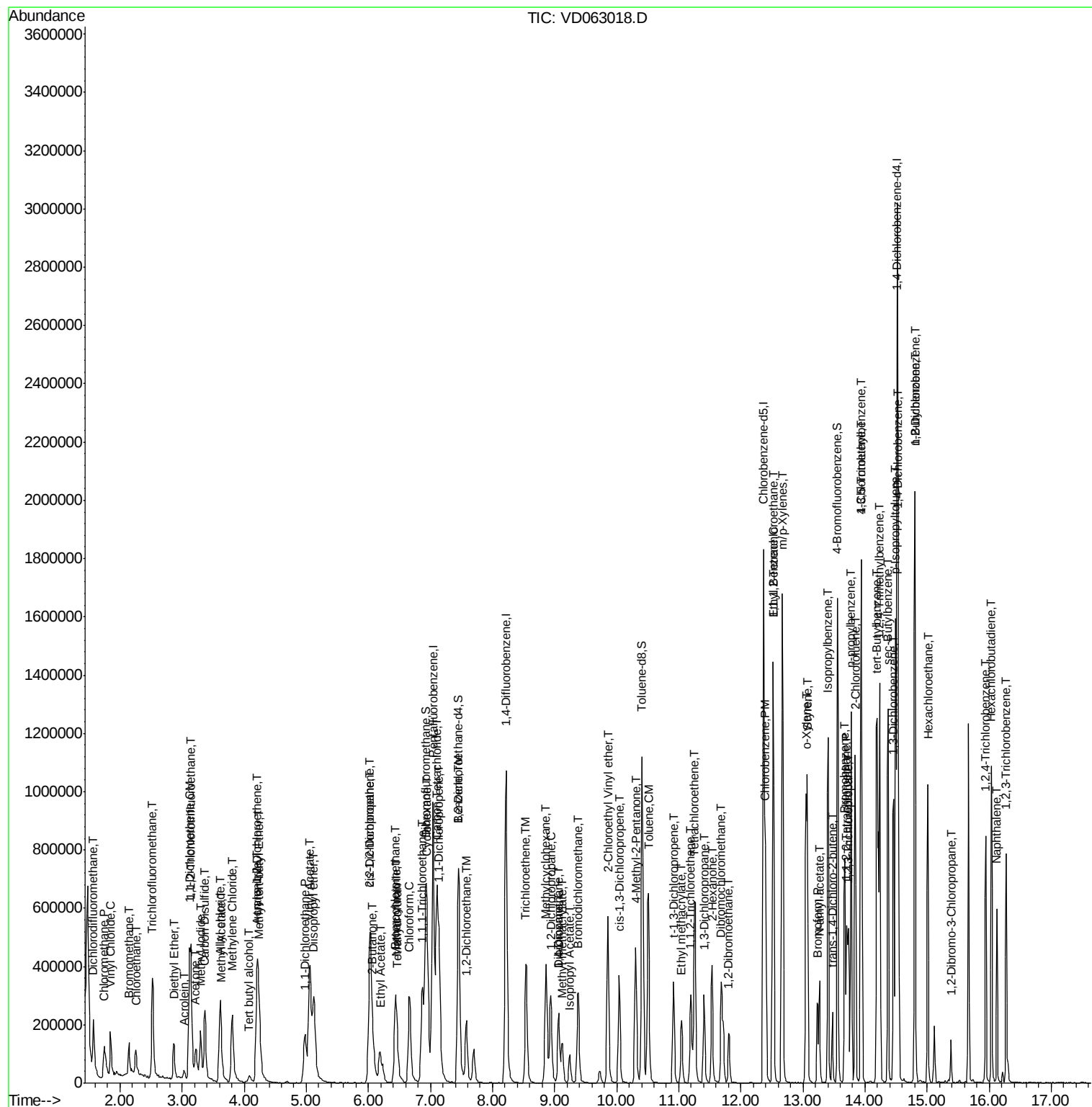
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.95	180	213875	18.086	ug/l	98
94) Hexachlorobutadiene	16.04	225	178891	19.802	ug/l	96
95) Naphthalene	16.12	128	325372	19.631	ug/l	99
96) 1,2,3-Trichlorobenzene	16.27	180	181323	19.957	ug/l	96

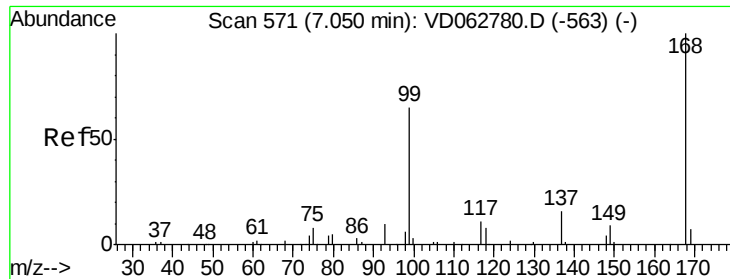
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jun 20 01:50:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.00 min

Lab File: VD063018.D

Acq: 3 Jul 2019 11:58

Instrument :

MSVOA_D

ClientSampleId :

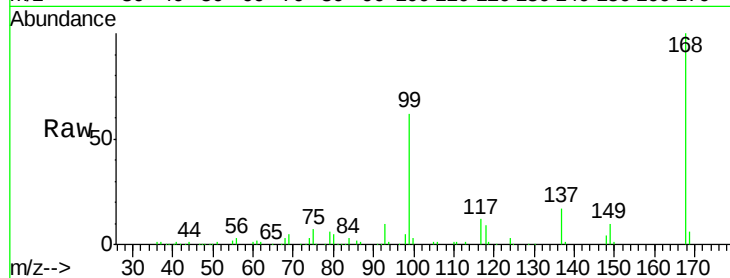
VD0703SBS01

Tot Ion:168 Resp: 915040

Ion Ratio Lower Upper

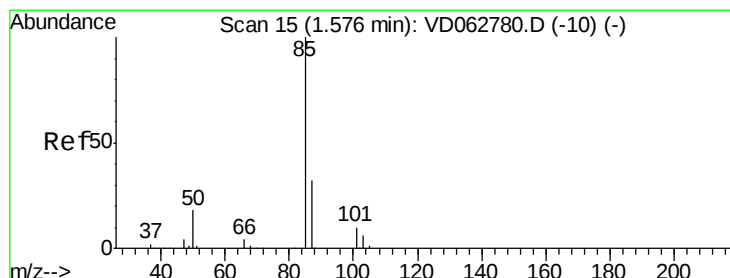
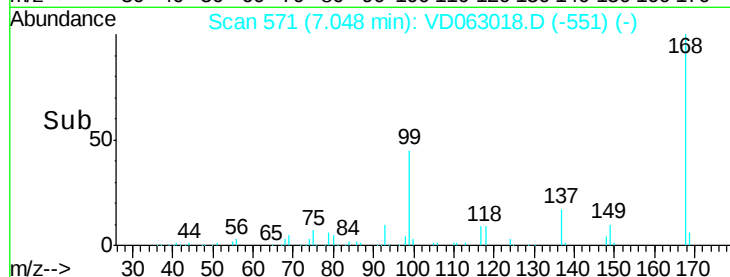
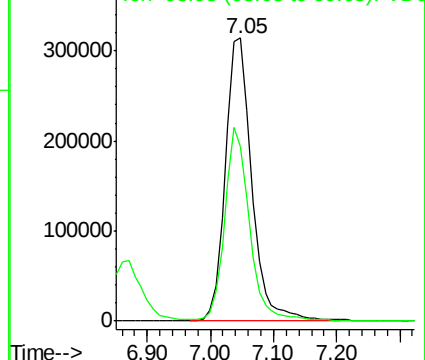
168 100

99 61.9 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 18.923 ug/l

RT: 1.57 min Scan# 15

Delta R.T. -0.00 min

Lab File: VD063018.D

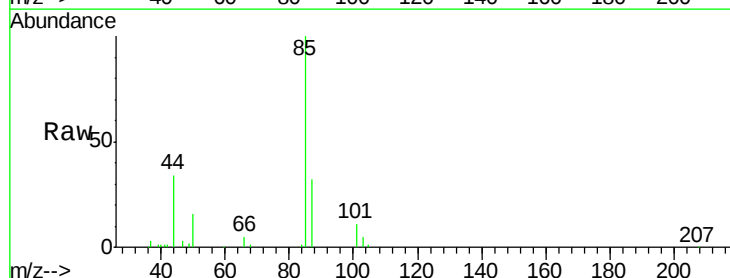
Acq: 3 Jul 2019 11:58

Tgt Ion: 85 Resp: 224070

Ion Ratio Lower Upper

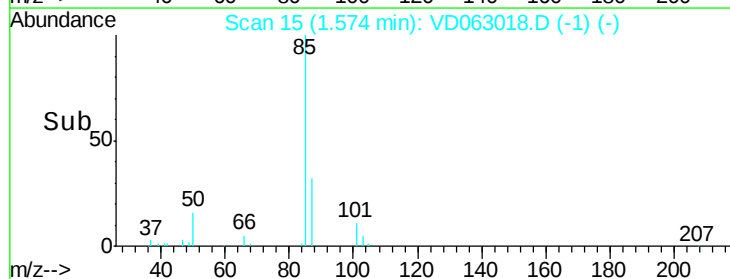
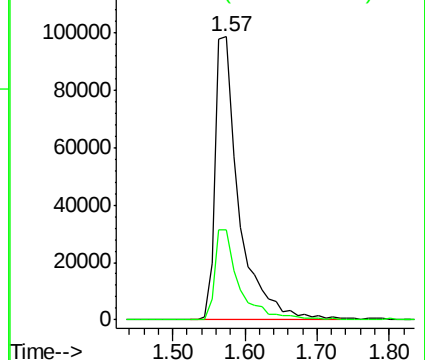
85 100

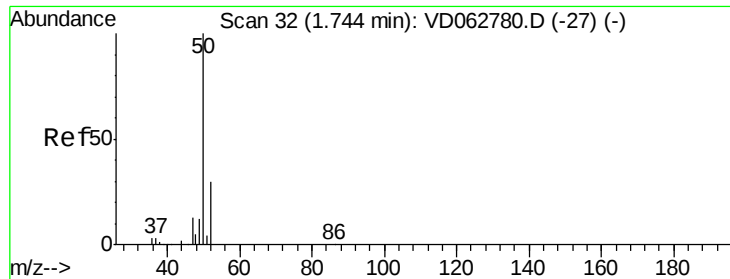
87 32.0 15.9 47.6



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 18.611 ug/l

RT: 1.74 min Scan# 32

Delta R.T. -0.00 min

Lab File: VD063018.D

Acq: 3 Jul 2019 11:58

Instrument :

MSVOA_D

ClientSampleId :

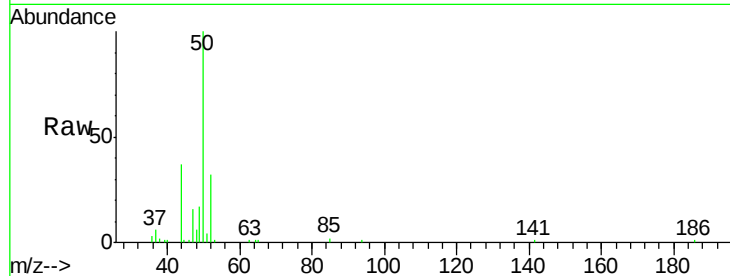
VD0703SBS01

Tot Ion: 50 Resp: 165735

Ion Ratio Lower Upper

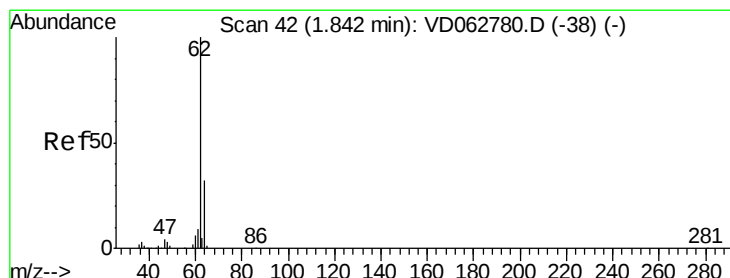
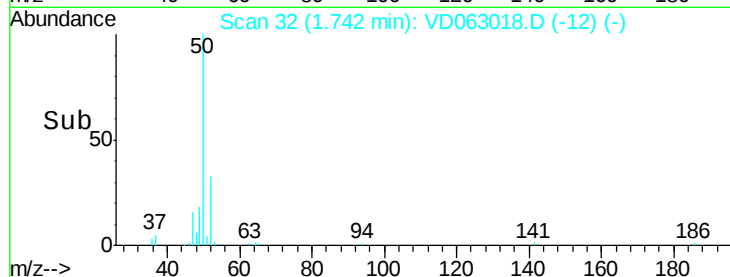
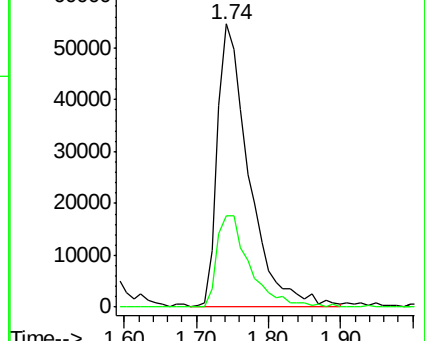
50 100

52 32.1 23.6 35.4



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 17.852 ug/l

RT: 1.84 min Scan# 42

Delta R.T. -0.00 min

Lab File: VD063018.D

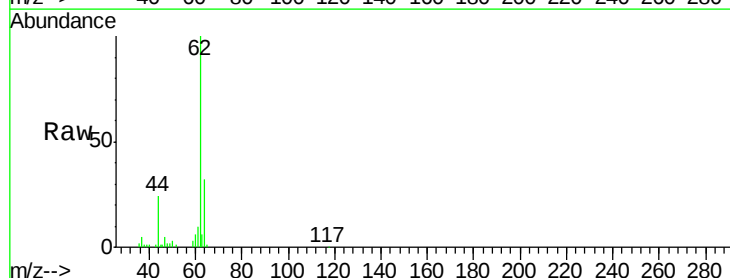
Acq: 3 Jul 2019 11:58

Tgt Ion: 62 Resp: 157620

Ion Ratio Lower Upper

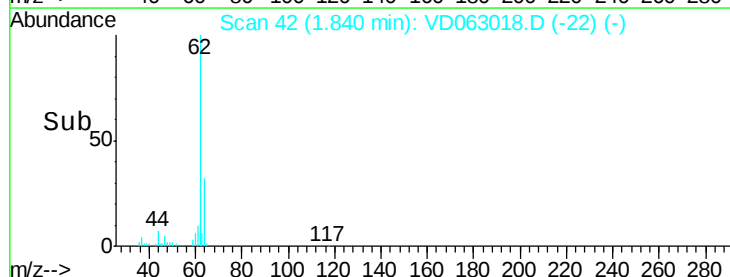
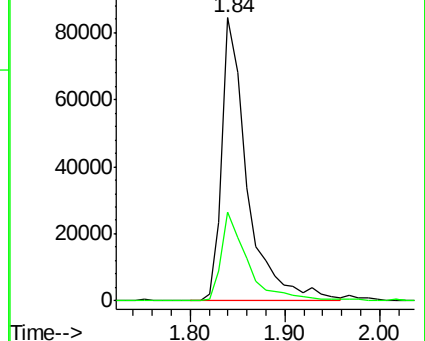
62 100

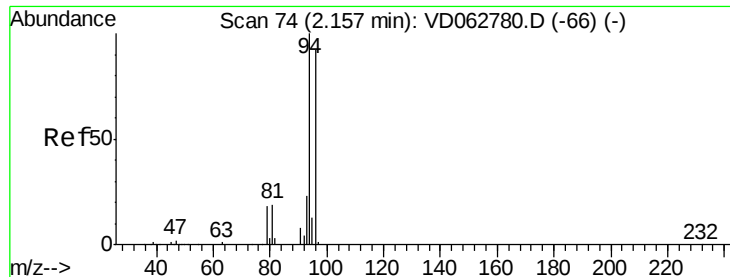
64 31.5 25.6 38.4



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 15.134 ug/l

RT: 2.15 min Scan# 73

Delta R.T. -0.01 min

Lab File: VD063018.D

Acq: 3 Jul 2019 11:58

Instrument :

MSVOA_D

ClientSampleId :

VD0703SBS01

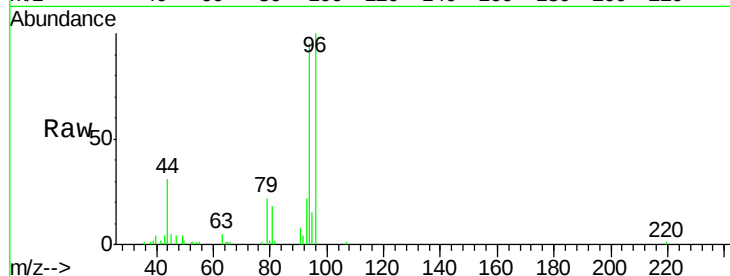
Tot Ion: 94 Resp: 62579

Ion Ratio Lower Upper

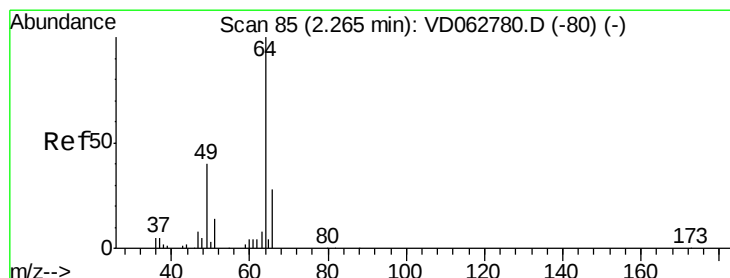
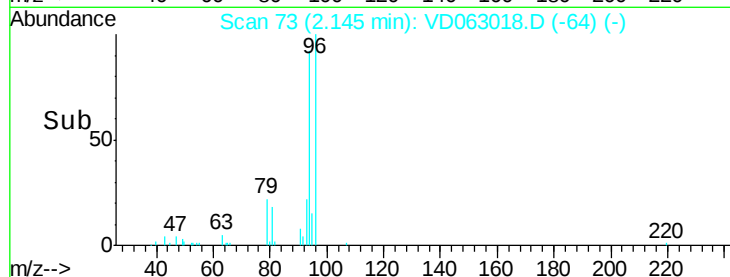
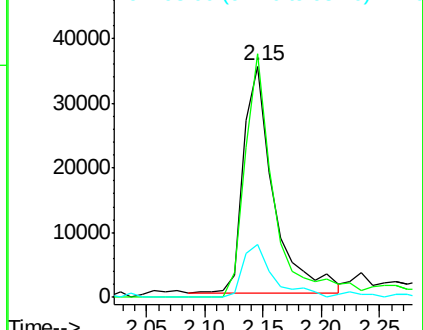
94 100

96 105.4 73.4 110.2

93 23.1 18.2 27.4



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: 20.529 ug/l

RT: 2.25 min Scan# 84

Delta R.T. -0.01 min

Lab File: VD063018.D

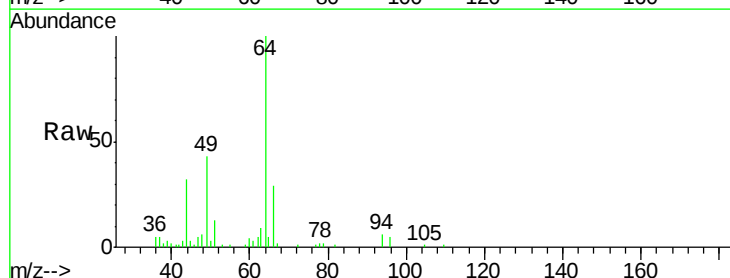
Acq: 3 Jul 2019 11:58

Tgt Ion: 64 Resp: 82063

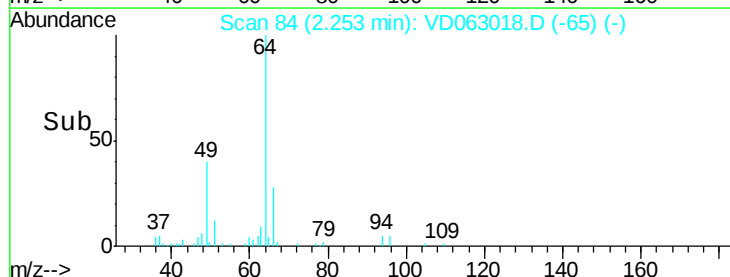
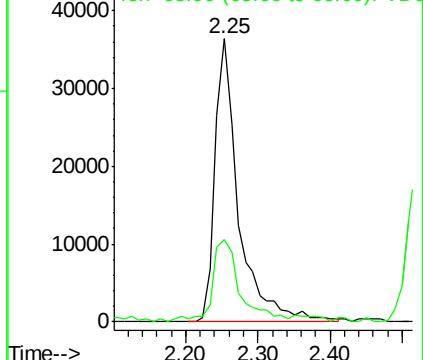
Ion Ratio Lower Upper

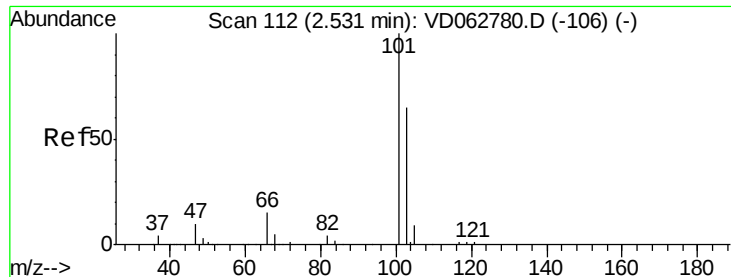
64 100

66 29.3 23.0 34.4



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



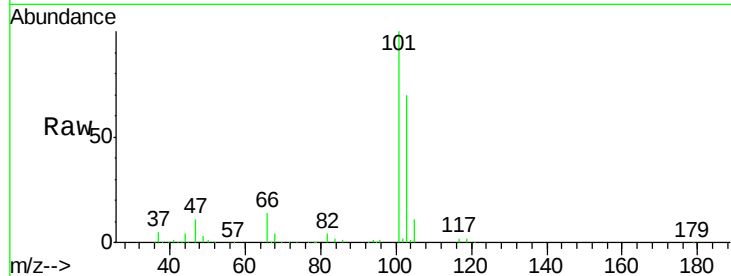


#7

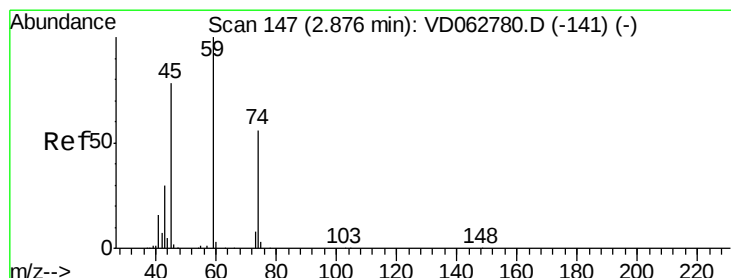
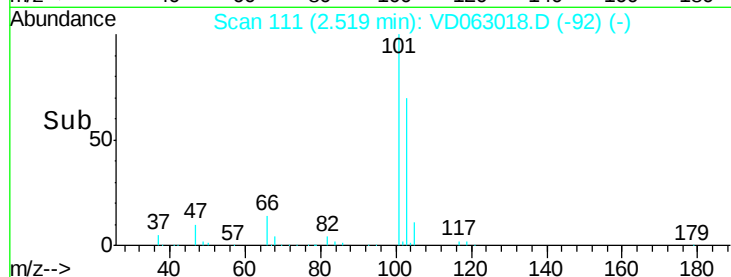
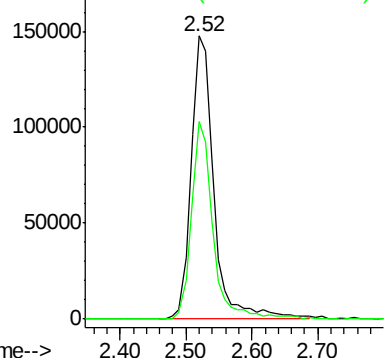
Trichlorofluoromethane
 Concen: 19.921 ug/l
 RT: 2.52 min Scan# 111
 Delta R.T. -0.01 min
 Lab File: VD063018.D
 Acq: 3 Jul 2019 11:58

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0703SBS01

Tot Ion:101 Resp: 355967
 Ion Ratio Lower Upper
 101 100
 103 69.8 51.8 77.8



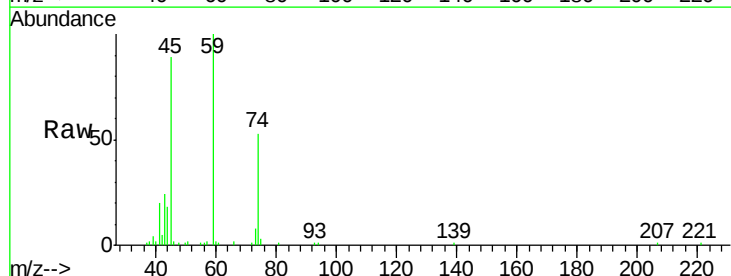
Abundance Ion 100.85 (100.55 to 101.55): V
 Ion 102.85 (102.55 to 103.55): V



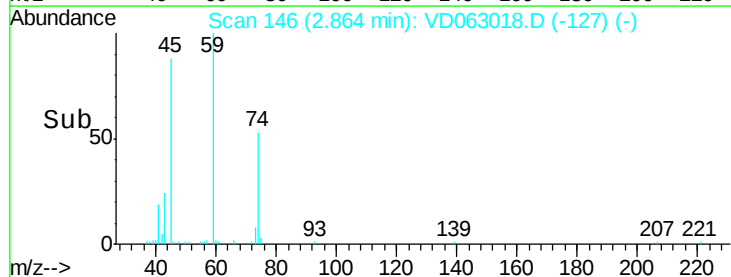
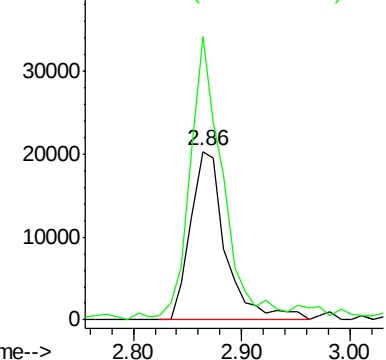
#8

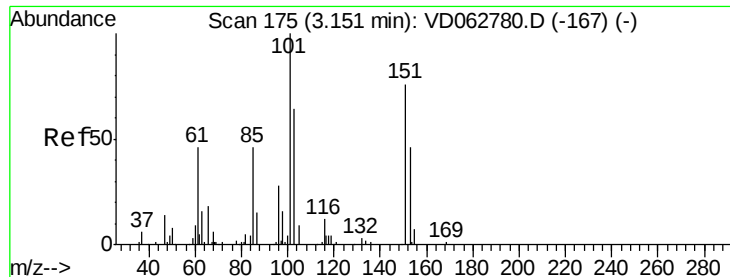
Diethyl Ether
 Concen: 20.222 ug/l
 RT: 2.86 min Scan# 146
 Delta R.T. -0.01 min
 Lab File: VD063018.D
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Tgt Ion: 74 Resp: 45912
 Ion Ratio Lower Upper
 74 100
 45 168.3 70.2 210.6



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





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.758 ug/l

RT: 3.14 min Scan# 174

Delta R.T. -0.01 min

Lab File: VD063018.D

Acq: 3 Jul 2019 11:58

Instrument :

MSVOA_D

ClientSampleId :

VD0703SBS01

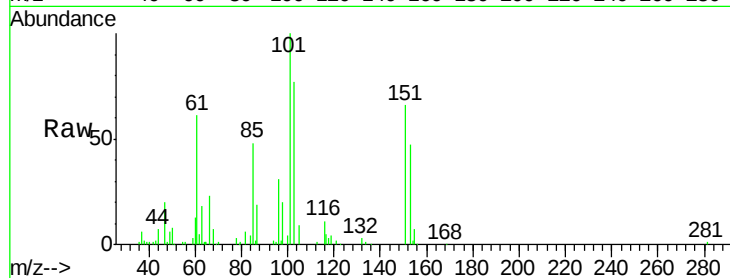
Tot Ion:101 Resp: 191270

Ion Ratio Lower Upper

101 100

85 48.2 37.0 55.4

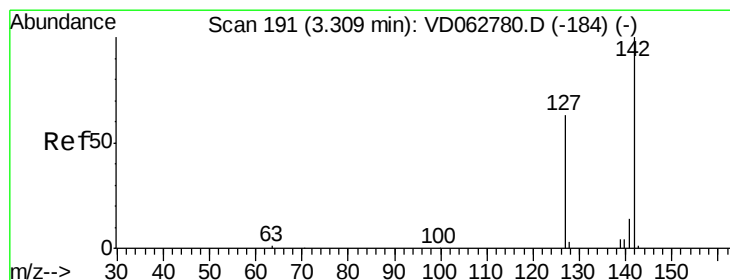
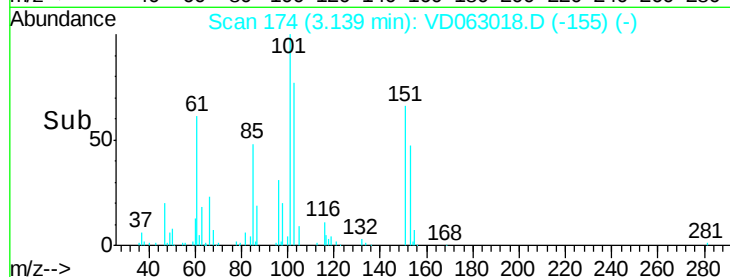
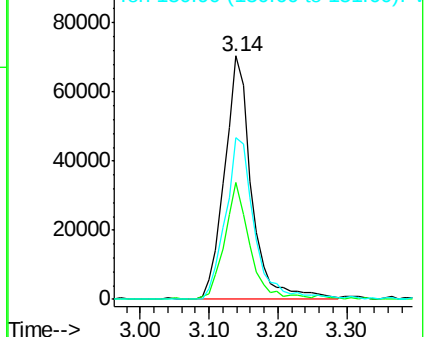
151 66.3 60.5 90.7



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: 18.673 ug/l

RT: 3.30 min Scan# 190

Delta R.T. -0.01 min

Lab File: VD063018.D

Acq: 3 Jul 2019 11:58

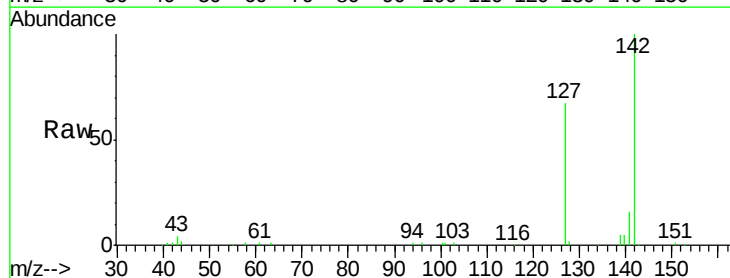
Tgt Ion:142 Resp: 238478

Ion Ratio Lower Upper

142 100

127 66.5 50.1 75.1

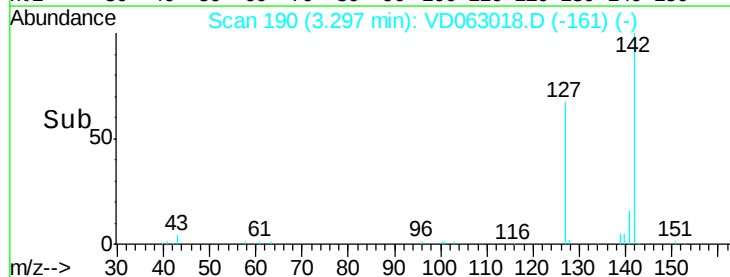
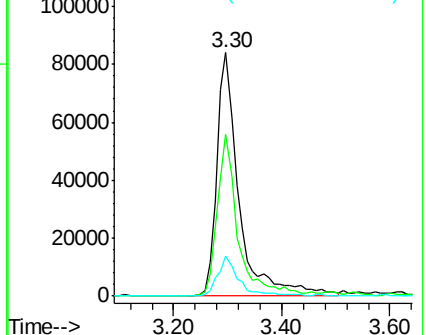
141 16.4 11.0 16.4

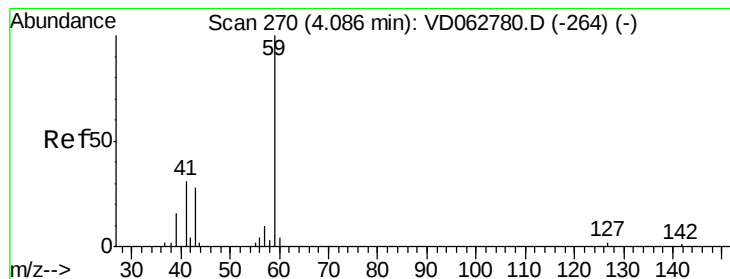


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



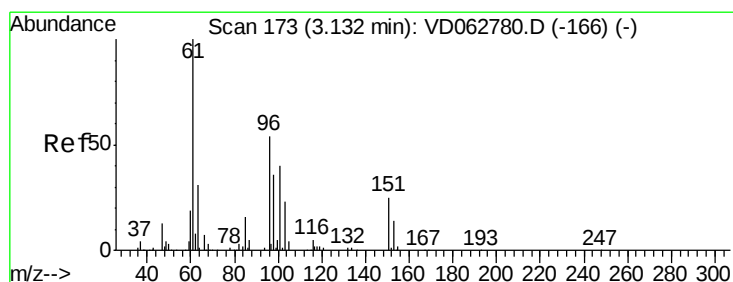
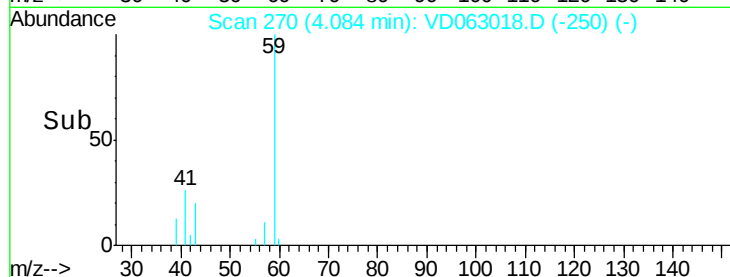
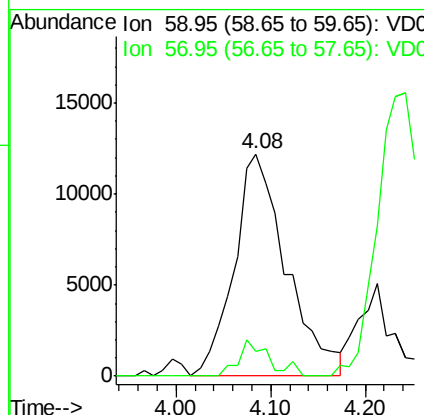
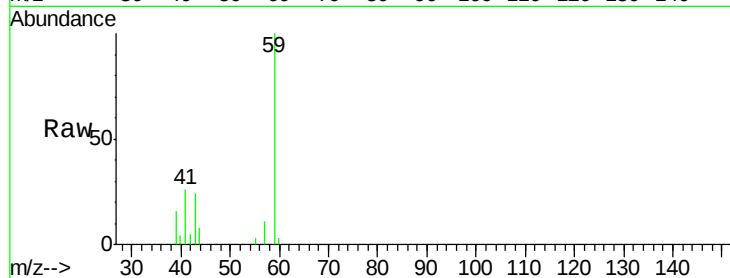


#11

Tert butyl alcohol
 Concen: 103.392 ug/l
 RT: 4.08 min Scan# 270
 Delta R.T. -0.00 min
 Lab File: VD063018.D
 Acq: 3 Jul 2019 11:58

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0703SBS01

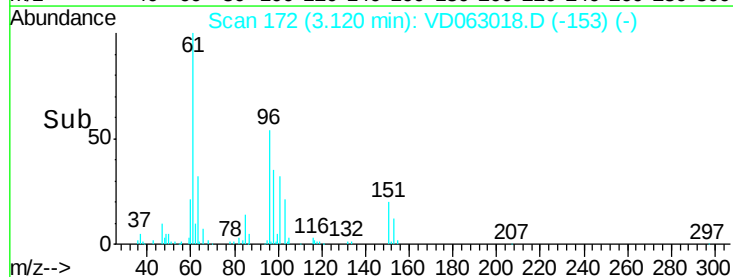
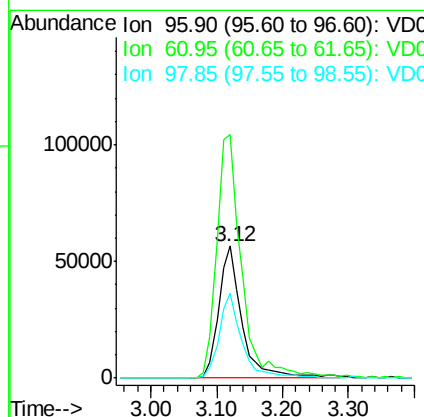
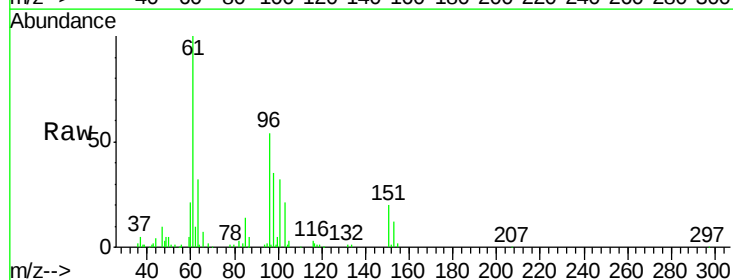
Tot Ion: 59 Resp: 46837
 Ion Ratio Lower Upper
 59 100
 57 11.5 6.6 10.0#



#12

1,1-Dichloroethene
 Concen: 19.177 ug/l
 RT: 3.12 min Scan# 172
 Delta R.T. -0.01 min
 Lab File: VD063018.D
 Acq: 3 Jul 2019 11:58

Tgt Ion: 96 Resp: 139266
 Ion Ratio Lower Upper
 96 100
 61 184.6 147.1 220.7
 98 64.0 52.6 79.0





#13

Acrolein

Concen: 71.190 ug/l

RT: 3.03 min Scan# 163

Delta R.T. -0.00 min

Lab File: VD063018.D

Acq: 3 Jul 2019 11:58

Instrument :

MSVOA_D

ClientSampleId :

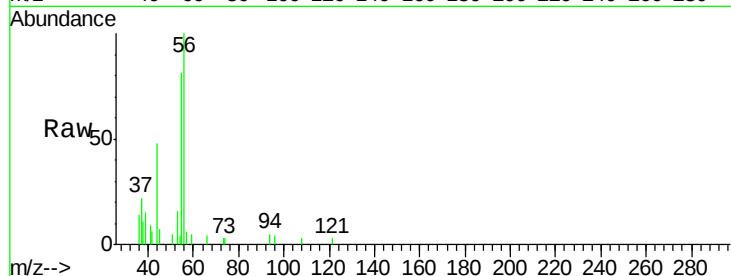
VD0703SBS01

Tot Ion: 56 Resp: 32923

Ion Ratio Lower Upper

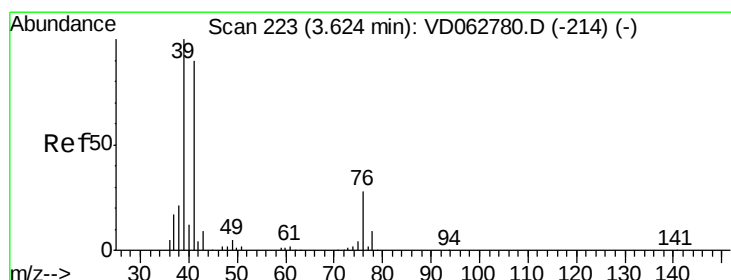
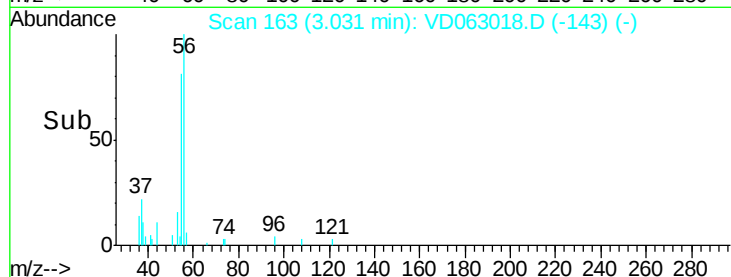
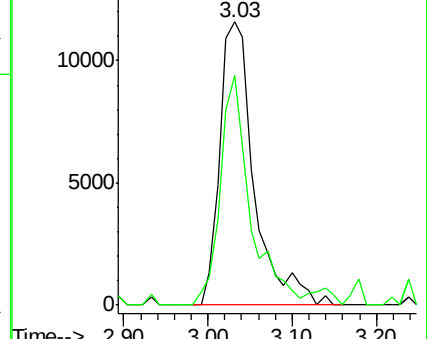
56 100

55 81.3 55.4 83.0



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 19.796 ug/l

RT: 3.61 min Scan# 222

Delta R.T. -0.01 min

Lab File: VD063018.D

Acq: 3 Jul 2019 11:58

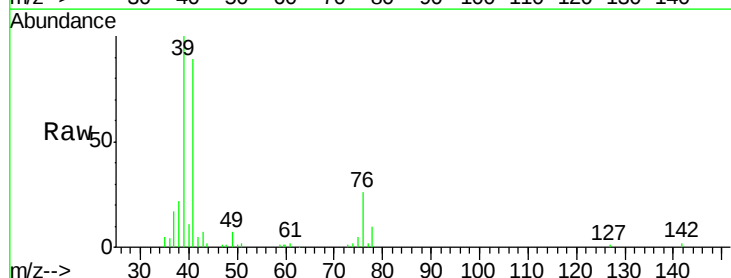
Tgt Ion: 41 Resp: 212417

Ion Ratio Lower Upper

41 100

39 112.0 88.8 133.2

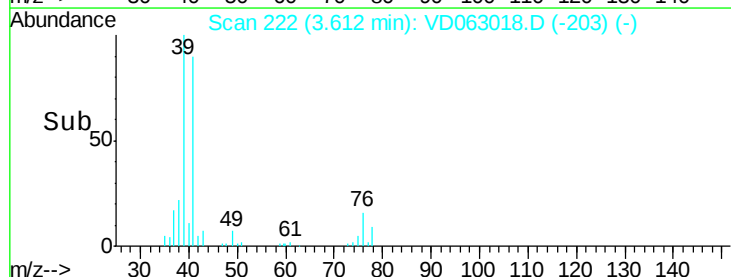
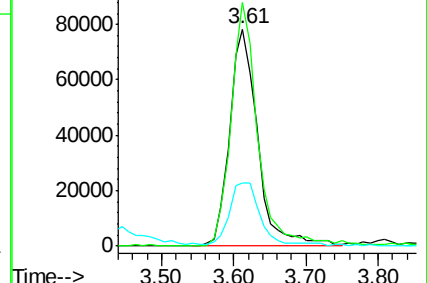
76 29.2 26.7 40.1

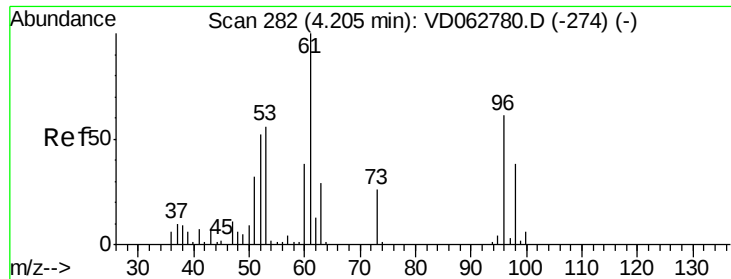


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 102.054 ug/l

RT: 4.19 min Scan# 281

Delta R.T. -0.01 min

Lab File: VD063018.D

Acq: 3 Jul 2019 11:58

Instrument :

MSVOA_D

ClientSampleId :

VD0703SBS01

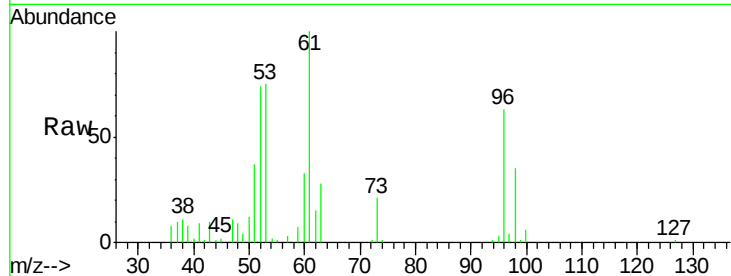
Tot Ion: 53 Resp: 108630

Ion Ratio Lower Upper

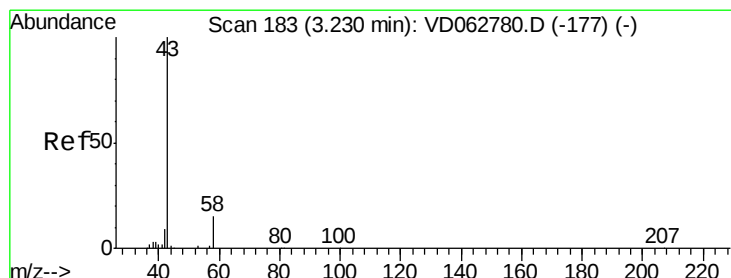
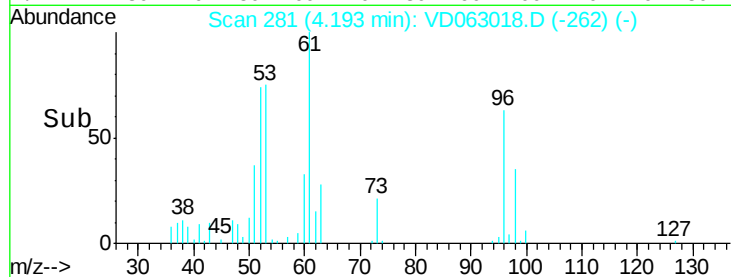
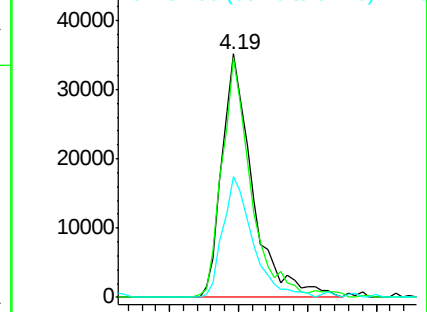
53 100

52 98.4 73.3 109.9

51 49.5 44.8 67.2



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: 90.356 ug/l

RT: 3.23 min Scan# 183

Delta R.T. -0.00 min

Lab File: VD063018.D

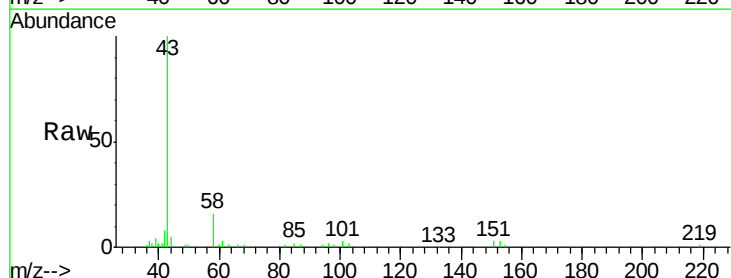
Acq: 3 Jul 2019 11:58

Tgt Ion: 43 Resp: 191261

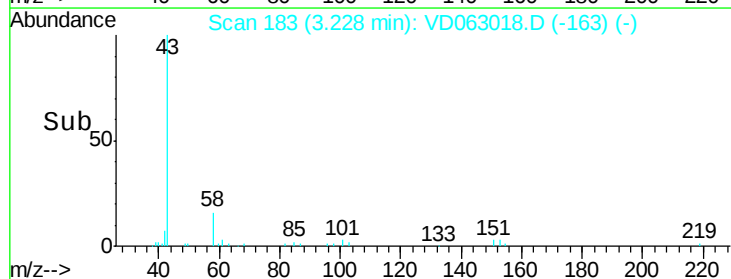
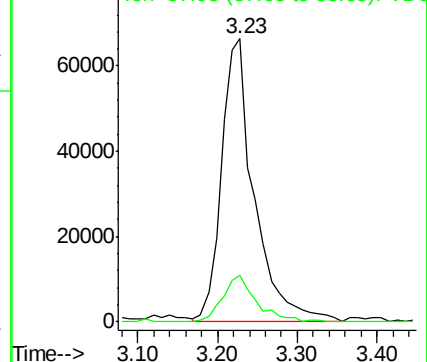
Ion Ratio Lower Upper

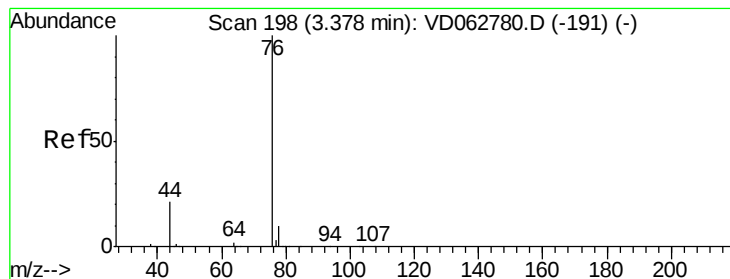
43 100

58 16.4 11.9 17.9



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





#17

Carbon Disulfide

Concen: 17.856 ug/l

RT: 3.37 min Scan# 197

Delta R.T. -0.01 min

Lab File: VD063018.D

Acq: 3 Jul 2019 11:58

Instrument :

MSVOA_D

ClientSampleId :

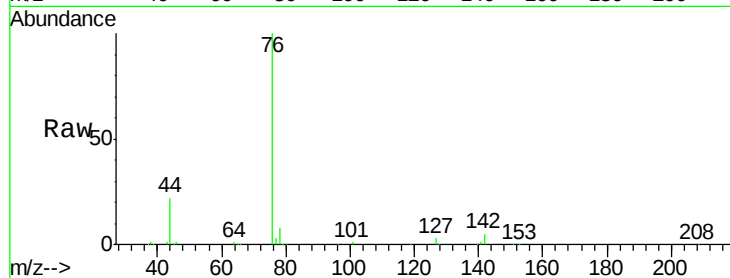
VD0703SBS01

Tot Ion: 76 Resp: 414422

Ion Ratio Lower Upper

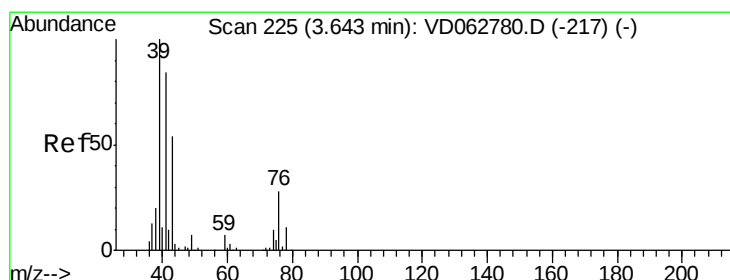
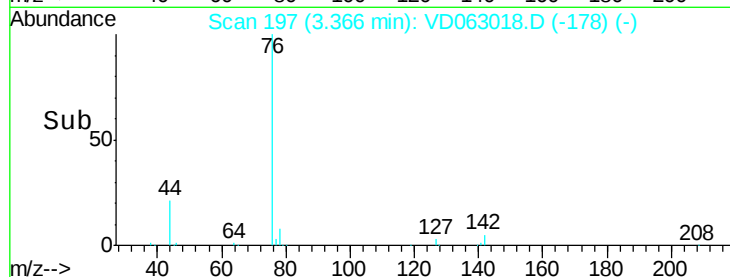
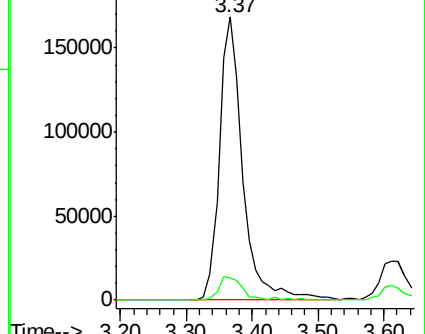
76 100

78 7.8 8.0 12.0#



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 27.815 ug/l

RT: 3.64 min Scan# 225

Delta R.T. -0.00 min

Lab File: VD063018.D

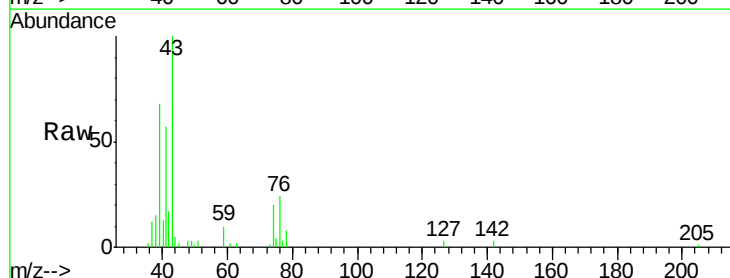
Acq: 3 Jul 2019 11:58

Tgt Ion: 43 Resp: 83517

Ion Ratio Lower Upper

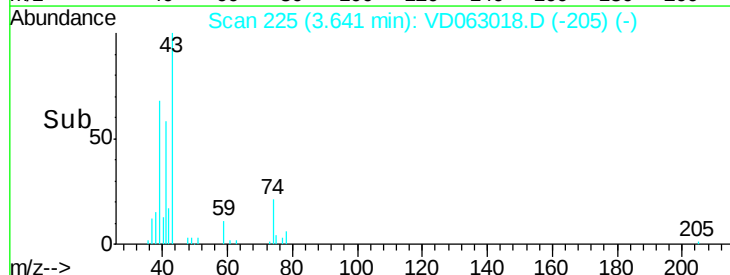
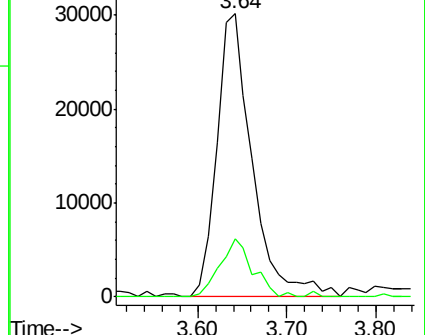
43 100

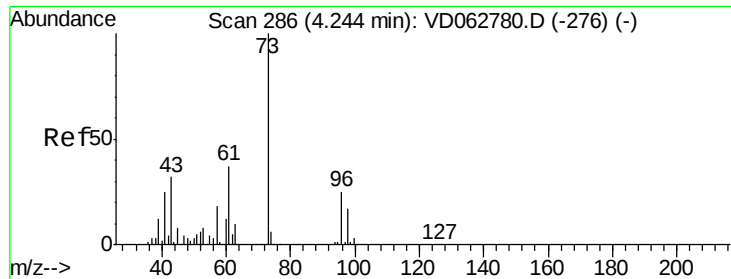
74 20.5 15.2 22.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

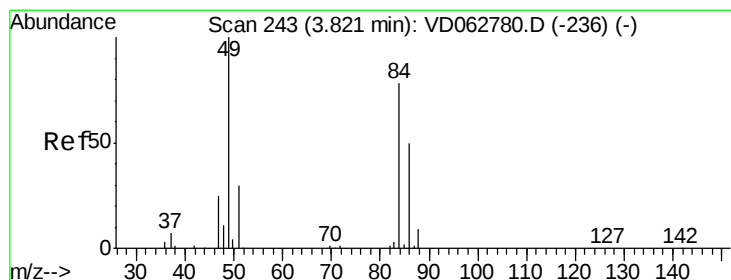
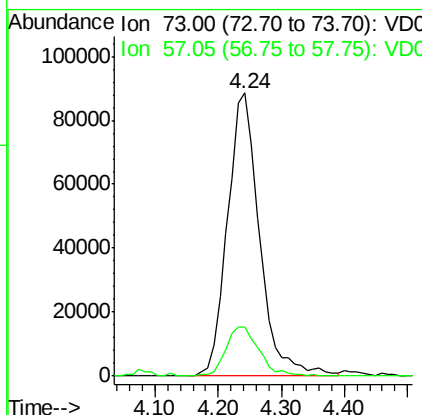
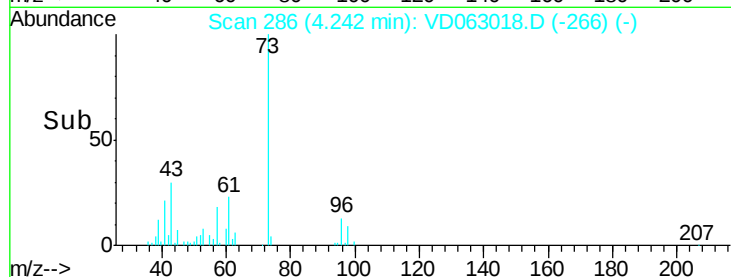
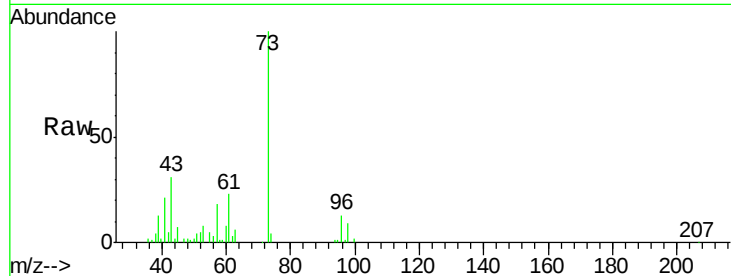




#19
Methyl tert-butyl Ether
Concen: 19.816 ug/l
RT: 4.24 min Scan# 286
Delta R.T. -0.00 min
Lab File: VD063018.D
Acq: 3 Jul 2019 11:58

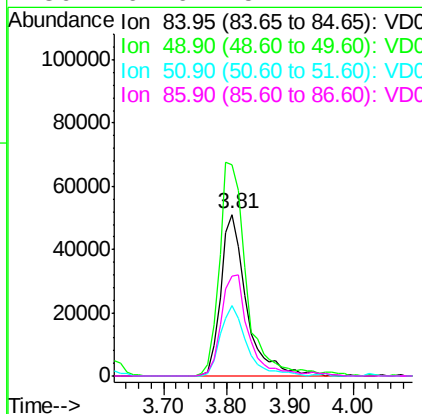
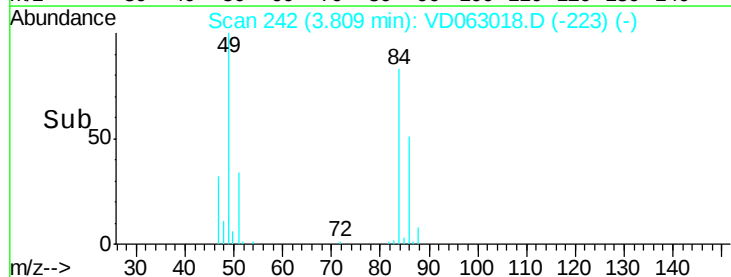
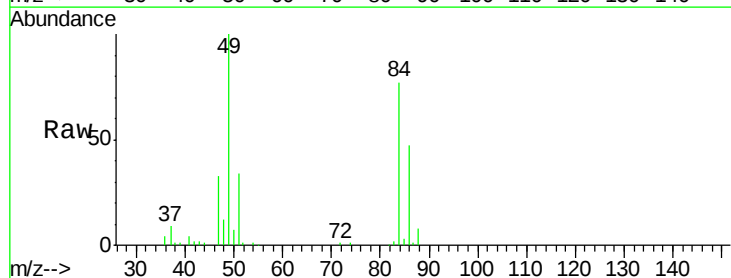
Instrument :
MSVOA_D
ClientSampleId :
VD0703SBS01

Tot Ion: 73 Resp: 311523
Ion Ratio Lower Upper
73 100
57 17.6 14.3 21.5



#20
Methylene Chloride
Concen: 19.191 ug/l
RT: 3.81 min Scan# 242
Delta R.T. -0.01 min
Lab File: VD063018.D
Acq: 3 Jul 2019 11:58

Tgt Ion: 84 Resp: 145571
Ion Ratio Lower Upper
84 100
49 130.3 102.9 154.3
51 43.9 31.2 46.8
86 61.6 51.4 77.2





#21

trans-1,2-Dichloroethene

Concen: 18.780 ug/l

RT: 4.21 min Scan# 283

Delta R.T. -0.01 min

Lab File: VD063018.D

Acq: 3 Jul 2019 11:58

Instrument :

MSVOA_D

ClientSampleId :

VD0703SBS01

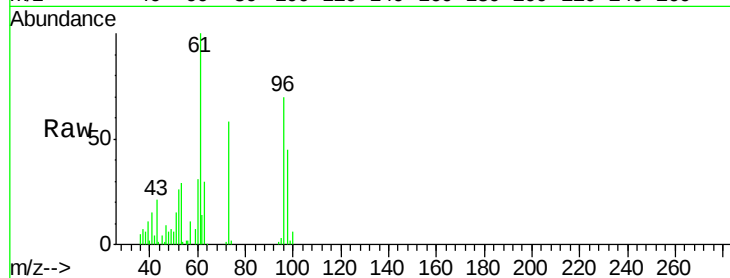
Tot Ion: 96 Resp: 145219

Ion Ratio Lower Upper

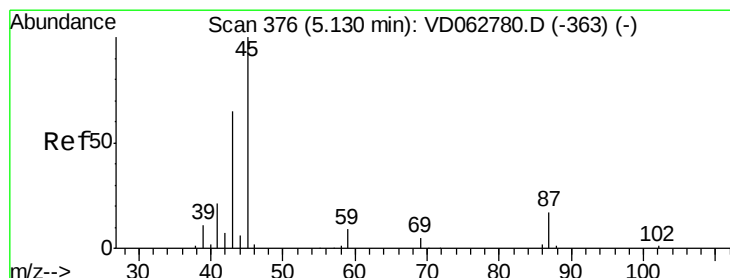
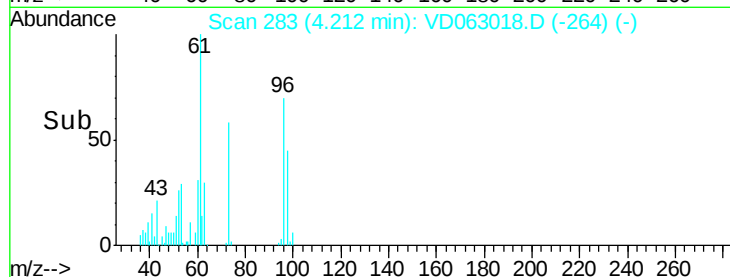
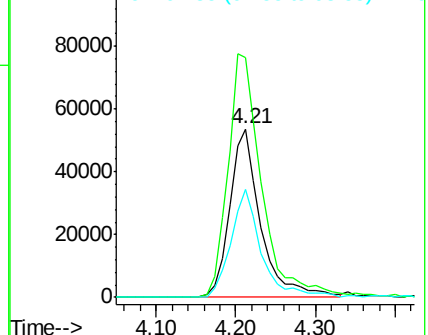
96 100

61 142.6 131.0 196.4

98 64.2 53.2 79.8



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: 20.414 ug/l

RT: 5.12 min Scan# 375

Delta R.T. -0.01 min

Lab File: VD063018.D

Acq: 3 Jul 2019 11:58

Tgt Ion: 45 Resp: 445481

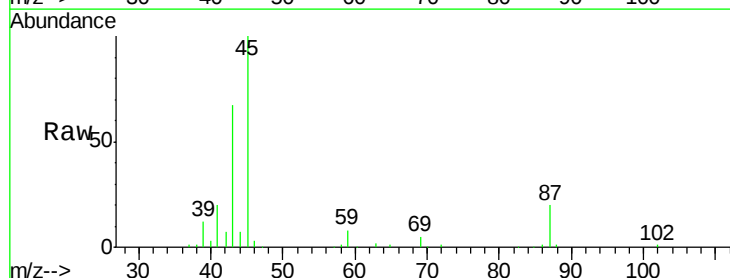
Ion Ratio Lower Upper

45 100

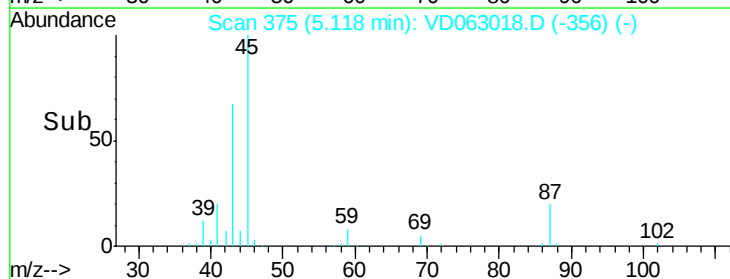
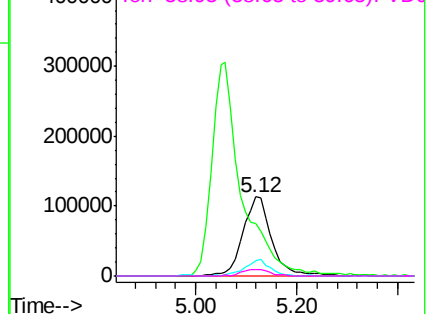
43 66.8 53.4 80.0

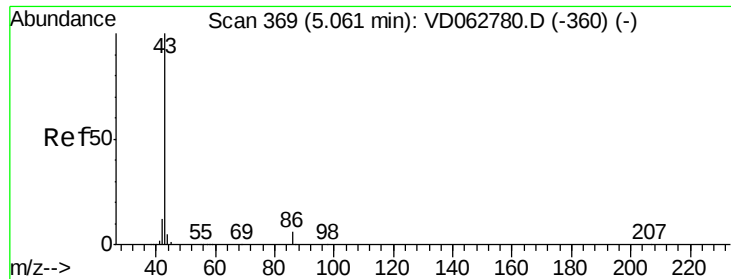
87 20.1 14.6 22.0

59 8.5 7.8 11.8



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: 91.328 ug/l

RT: 5.06 min Scan# 369

Delta R.T. -0.00 min

Lab File: VD063018.D

Acq: 3 Jul 2019 11:58

Instrument :

MSVOA_D

ClientSampleId :

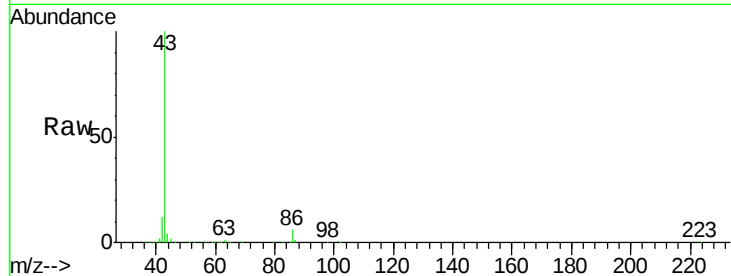
VD0703SBS01

Tot Ion: 43 Resp: 1247081

Ion Ratio Lower Upper

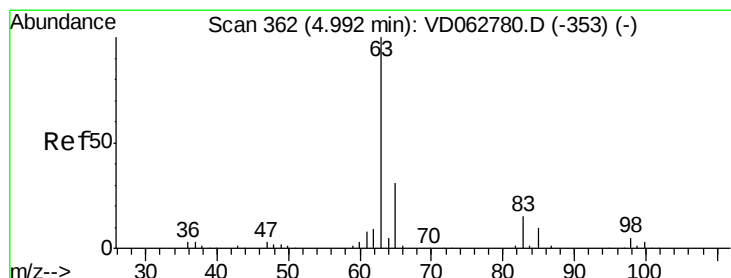
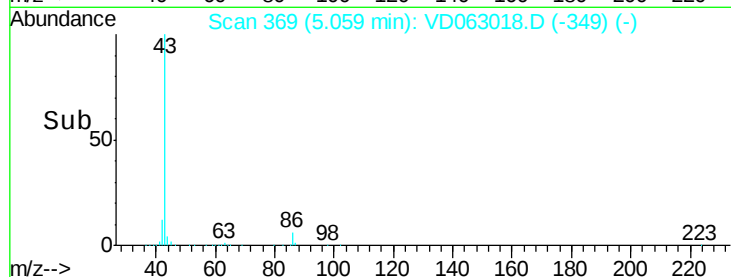
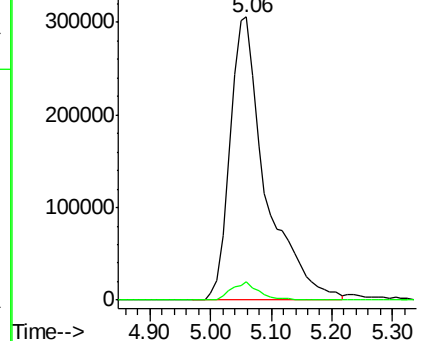
43 100

86 6.4 4.7 7.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 18.762 ug/l

RT: 4.98 min Scan# 361

Delta R.T. -0.01 min

Lab File: VD063018.D

Acq: 3 Jul 2019 11:58

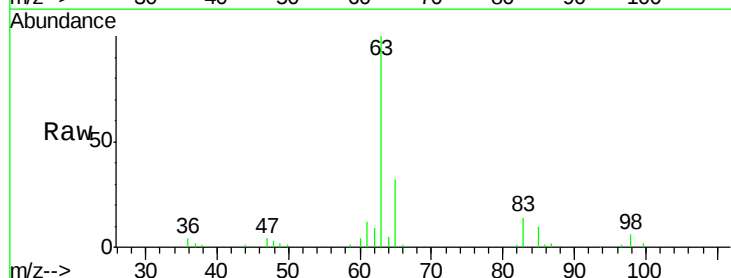
Tgt Ion: 63 Resp: 266562

Ion Ratio Lower Upper

63 100

98 5.9 2.3 6.9

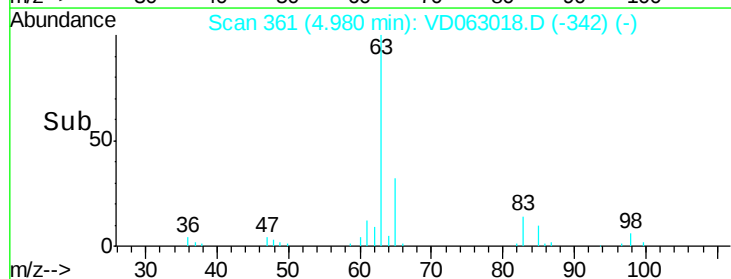
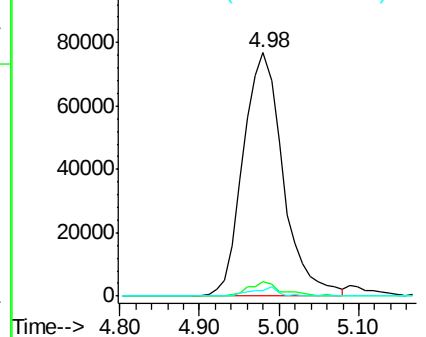
100 2.4 1.7 5.1

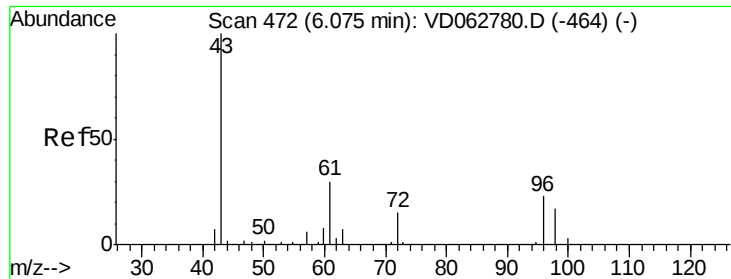


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 109.144 ug/l

RT: 6.07 min Scan# 472

Delta R.T. -0.00 min

Lab File: VD063018.D

Acq: 3 Jul 2019 11:58

Instrument :

MSVOA_D

ClientSampleId :

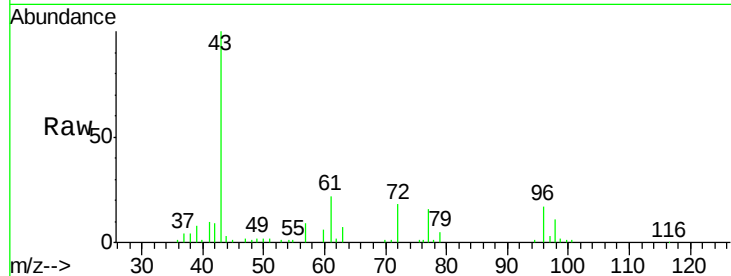
VD0703SBS01

Tot Ion: 43 Resp: 203037

Ion Ratio Lower Upper

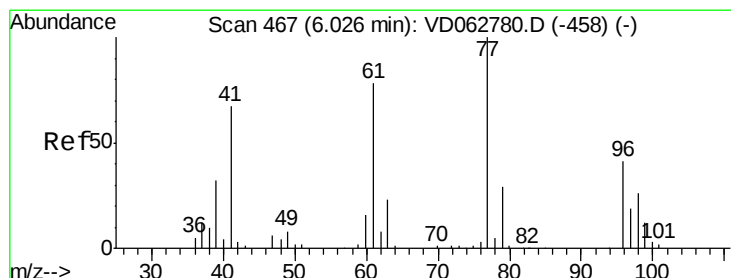
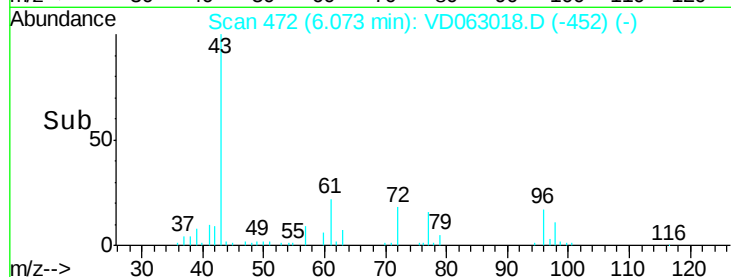
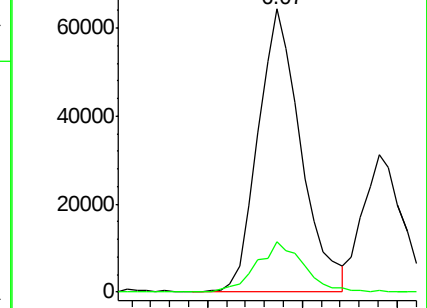
43 100

72 17.8 11.9 17.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 21.067 ug/l

RT: 6.02 min Scan# 467

Delta R.T. -0.00 min

Lab File: VD063018.D

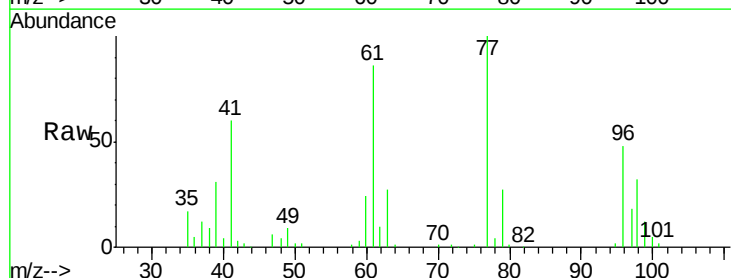
Acq: 3 Jul 2019 11:58

Tgt Ion: 77 Resp: 317254

Ion Ratio Lower Upper

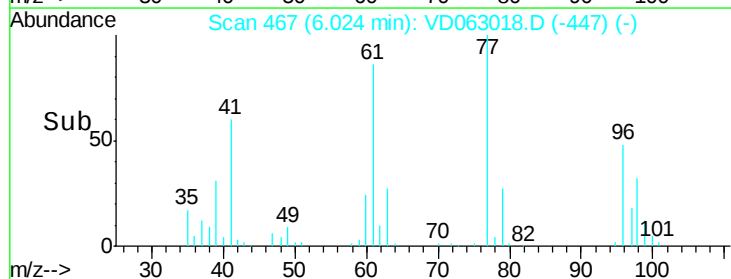
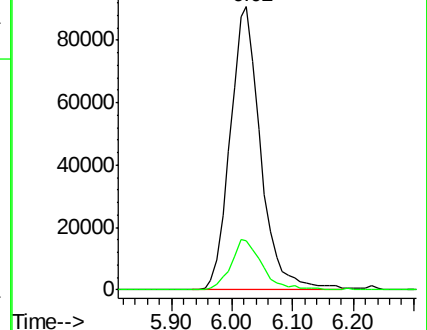
77 100

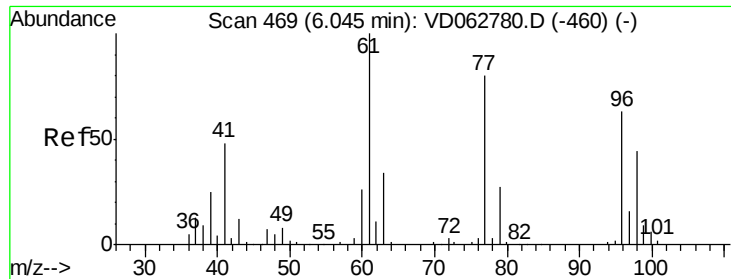
97 17.5 9.5 28.5



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



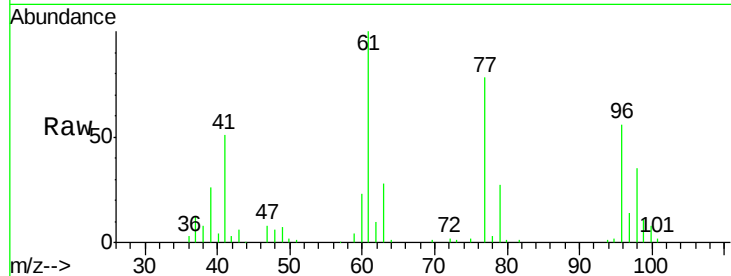


#27

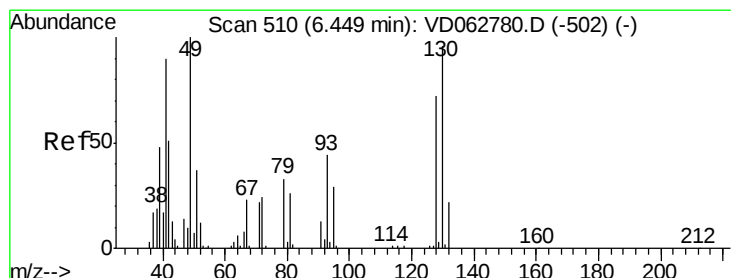
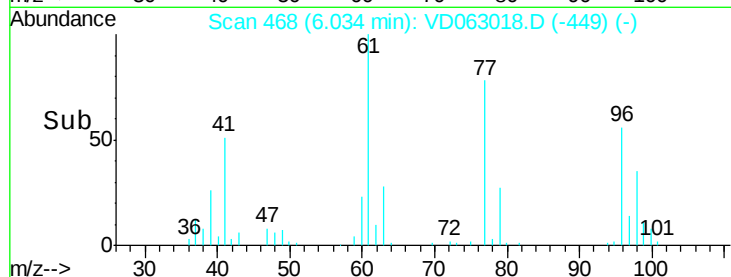
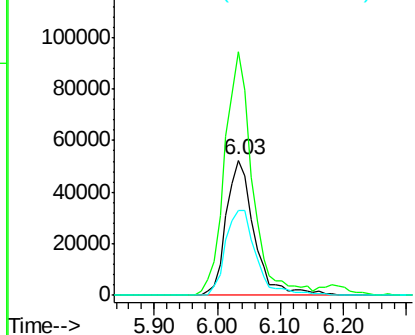
cis-1,2-Dichloroethene
 Concen: 19.606 ug/l
 RT: 6.03 min Scan# 468
 Delta R.T. -0.01 min
 Lab File: VD063018.D
 Acq: 3 Jul 2019 11:58

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0703SBS01

Tot Ion: 96 Resp: 160317
 Ion Ratio Lower Upper
 96 100
 61 180.1 0.0 316.0
 98 62.7 0.0 138.4



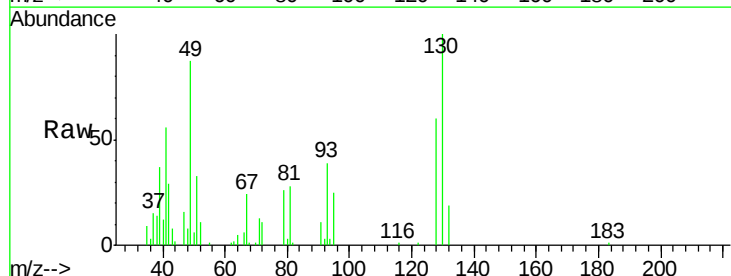
Abundance Ion 95.90 (95.60 to 96.60): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 97.85 (97.55 to 98.55): VDC



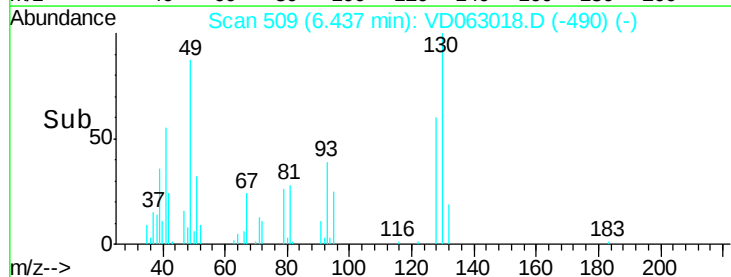
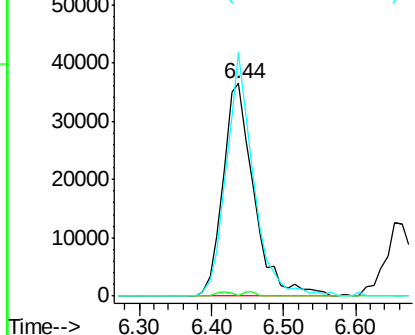
#28

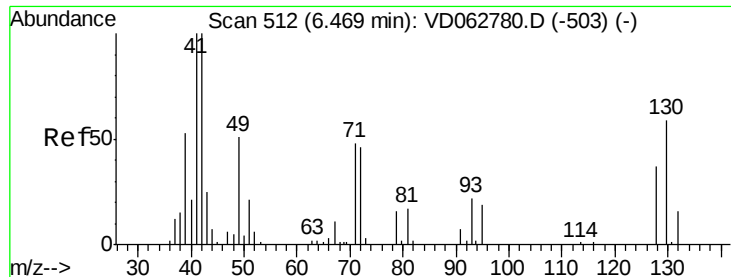
Bromochloromethane
 Concen: 21.647 ug/l
 RT: 6.44 min Scan# 509
 Delta R.T. -0.01 min
 Lab File: VD063018.D
 Acq: 3 Jul 2019 11:58

Tgt Ion: 49 Resp: 108322
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 5.6
 130 114.5 76.6 114.8



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: 103.321 ug/l

RT: 6.47 min Scan# 512

Delta R.T. -0.00 min

Lab File: VD063018.D

Acq: 3 Jul 2019 11:58

Instrument :

MSVOA_D

ClientSampleId :

VD0703SBS01

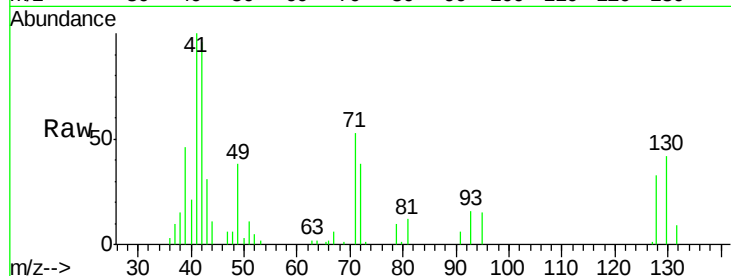
Tot Ion: 42 Resp: 90940

Ion Ratio Lower Upper

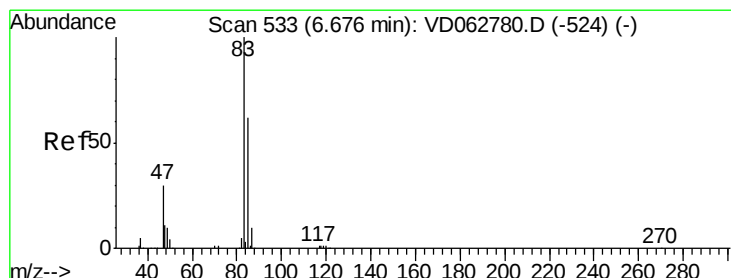
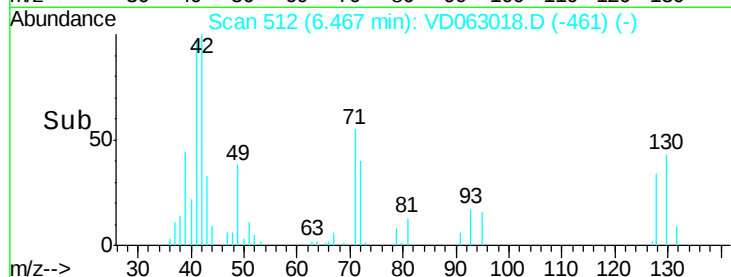
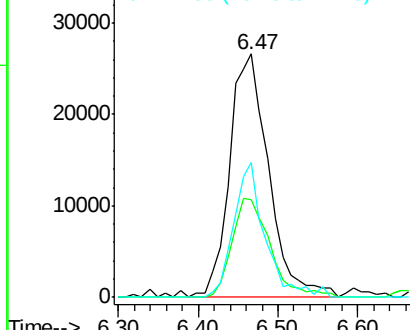
42 100

72 39.8 35.0 52.6

71 44.6 33.3 49.9



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: 20.356 ug/l

RT: 6.66 min Scan# 532

Delta R.T. -0.01 min

Lab File: VD063018.D

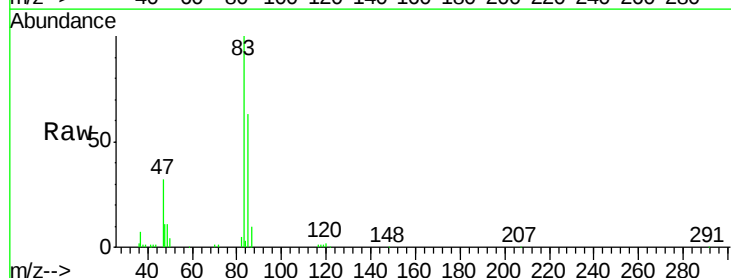
Acq: 3 Jul 2019 11:58

Tgt Ion: 83 Resp: 351731

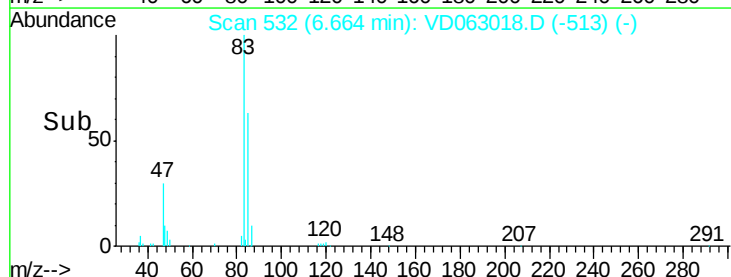
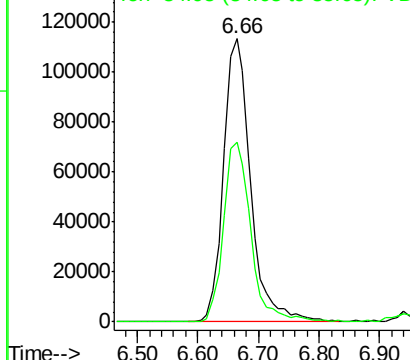
Ion Ratio Lower Upper

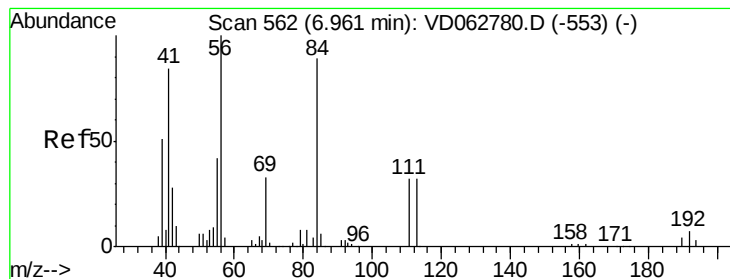
83 100

85 63.4 49.8 74.6



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





#31

Cvclohexane

Concen: 19.358 ug/l

RT: 6.95 min Scan# 561

Delta R.T. -0.01 min

Lab File: VD063018.D

Acq: 3 Jul 2019 11:58

Instrument :

MSVOA_D

ClientSampleId :

VD0703SBS01

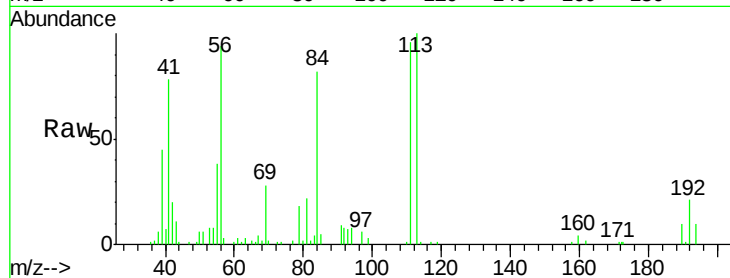
Tot Ion: 56 Resp: 180806

Ion Ratio Lower Upper

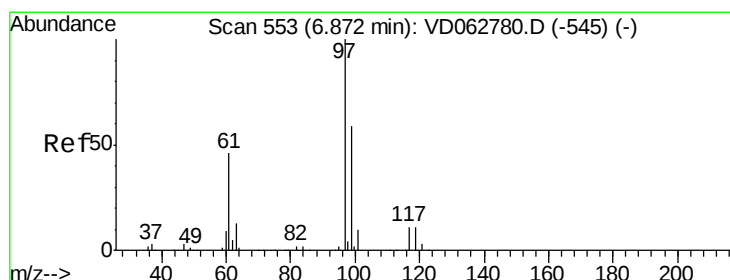
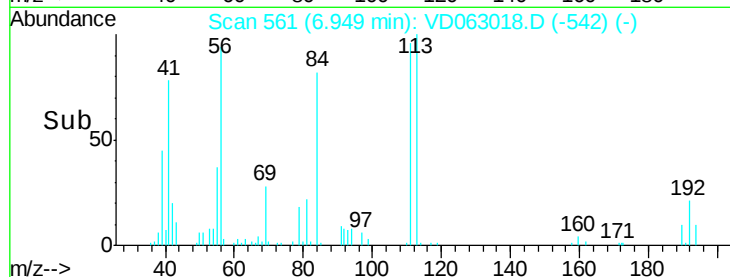
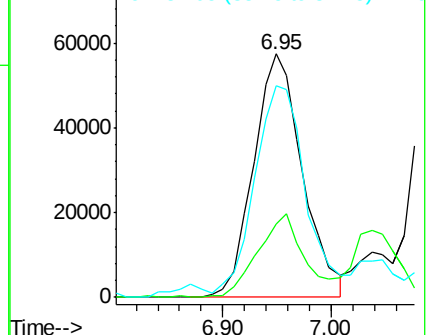
56 100

69 30.2 26.6 39.8

84 87.0 75.5 113.3



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



#32

1,1,1-Trichloroethane

Concen: 18.895 ug/l

RT: 6.87 min Scan# 553

Delta R.T. -0.00 min

Lab File: VD063018.D

Acq: 3 Jul 2019 11:58

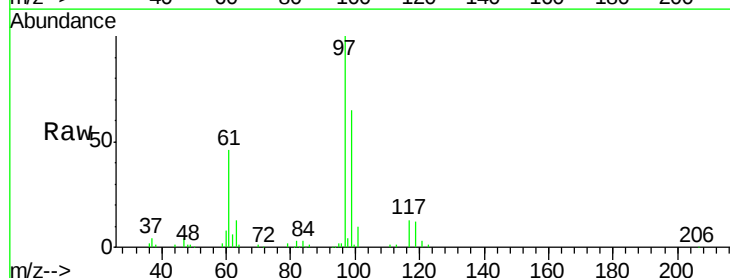
Tgt Ion: 97 Resp: 340050

Ion Ratio Lower Upper

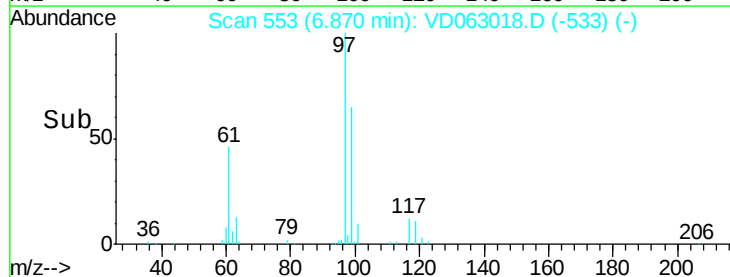
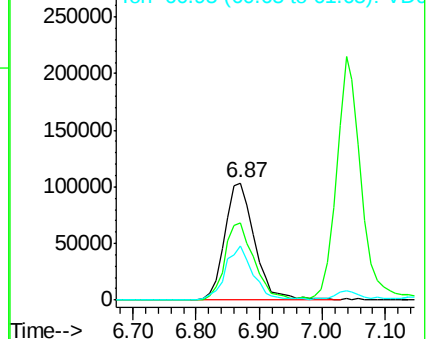
97 100

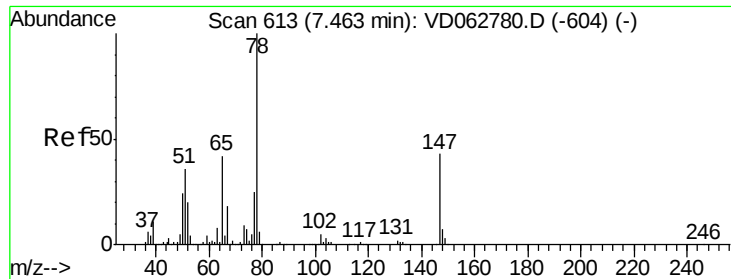
99 65.5 47.4 71.2

61 45.8 37.2 55.8



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

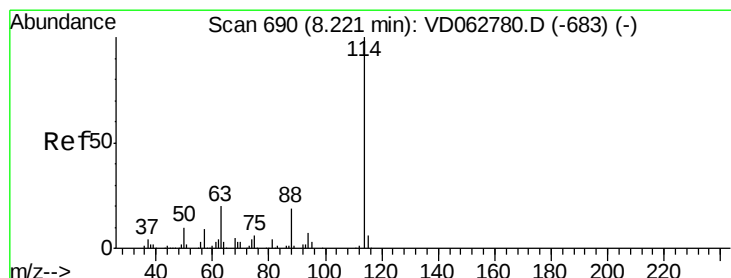
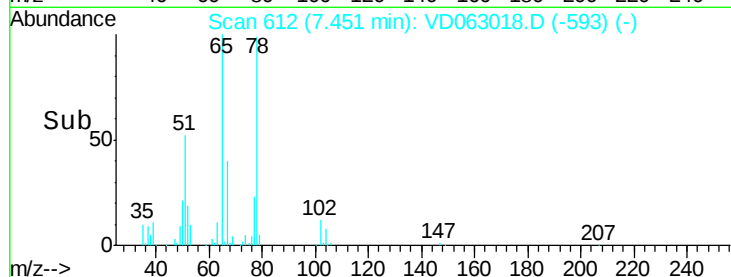
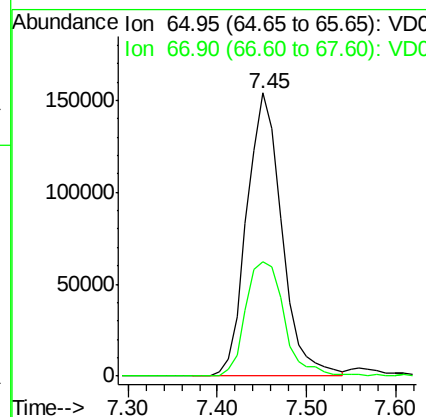
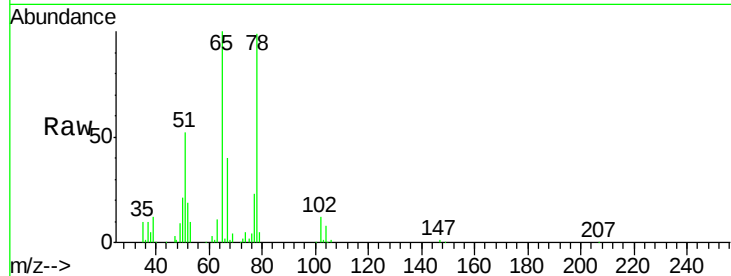




#33
 1,2-Dichloroethane-d4
 Concen: 42.277 ug/l
 RT: 7.45 min Scan# 612
 Delta R.T. -0.01 min
 Lab File: VD063018.D
 Acq: 3 Jul 2019 11:58

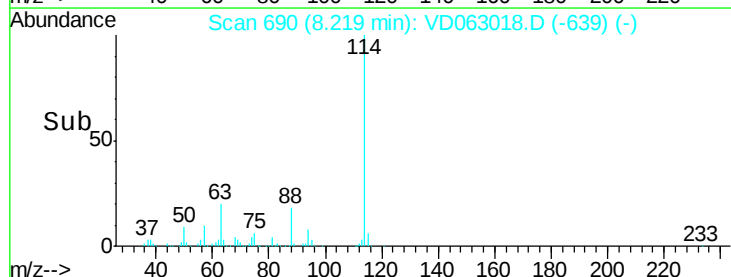
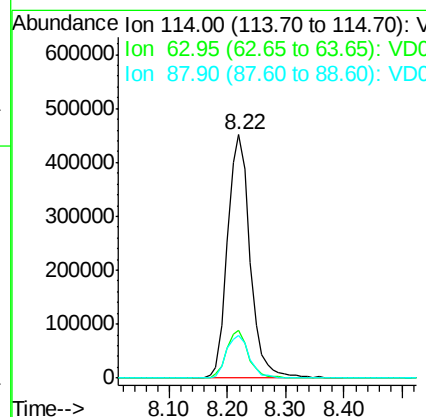
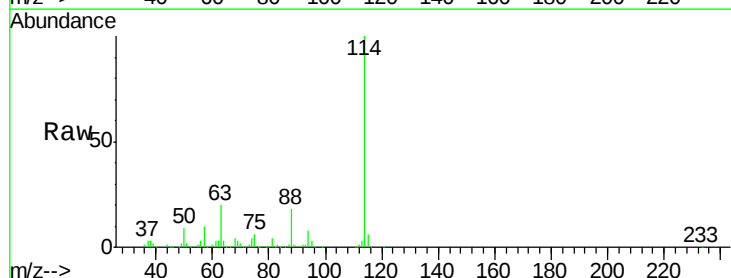
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0703SBS01

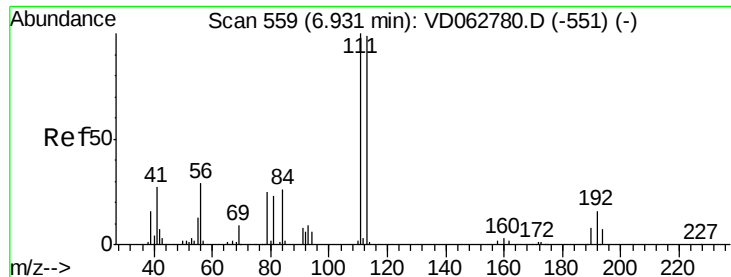
Tot Ion: 65 Resp: 420505
 Ion Ratio Lower Upper
 65 100
 67 40.4 0.0 87.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. -0.00 min
 Lab File: VD063018.D
 Acq: 3 Jul 2019 11:58

Tgt Ion: 114 Resp: 1211301
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 40.0
 88 17.6 0.0 38.8

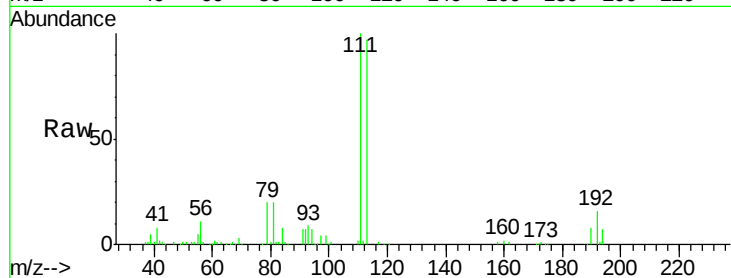




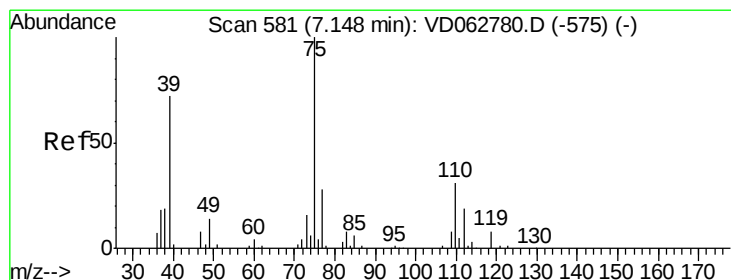
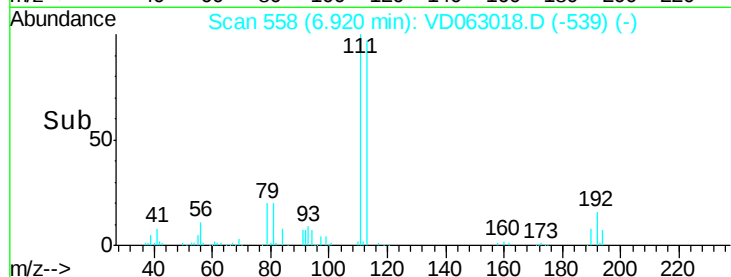
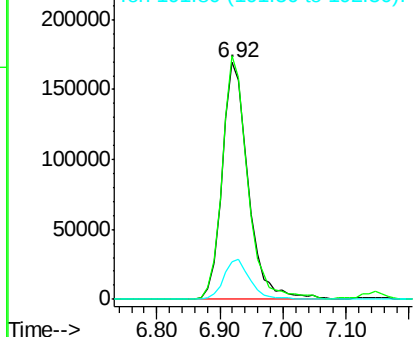
#35
Dibromofluoromethane
Concen: 47.395 ug/l
RT: 6.92 min Scan# 558
Delta R.T. -0.01 min
Lab File: VD063018.D
Acq: 3 Jul 2019 11:58

Instrument :
MSVOA_D
ClientSampleId :
VD0703SBS01

Tot Ion:113 Resp: 484077
Ion Ratio Lower Upper
113 100
111 102.7 81.2 121.8
192 16.1 12.9 19.3

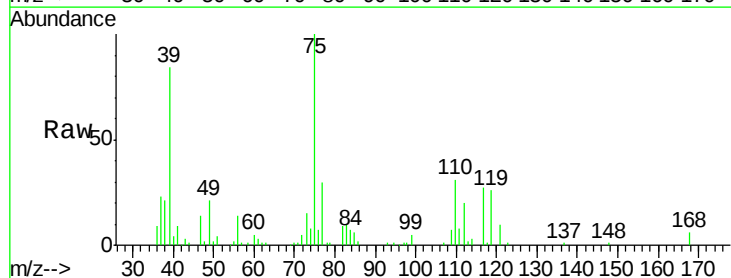


Abundance Ion 112.90 (112.60 to 113.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 191.80 (191.50 to 192.50): V

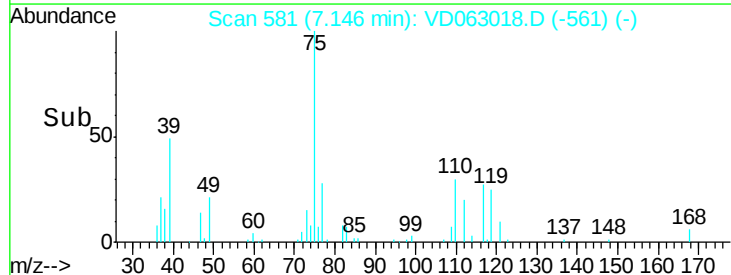
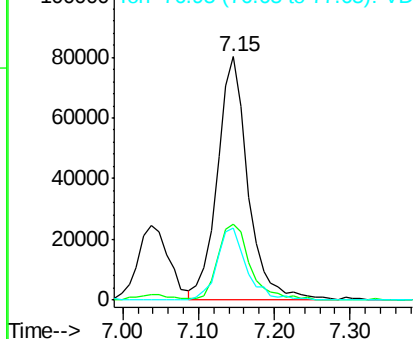


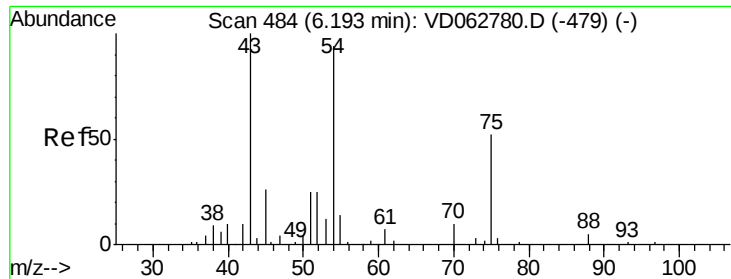
#36
1,1-Dichloropropene
Concen: 19.515 ug/l
RT: 7.15 min Scan# 581
Delta R.T. -0.00 min
Lab File: VD063018.D
Acq: 3 Jul 2019 11:58

Tgt Ion: 75 Resp: 223776
Ion Ratio Lower Upper
75 100
110 31.2 15.0 45.1
77 29.7 22.2 33.2



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

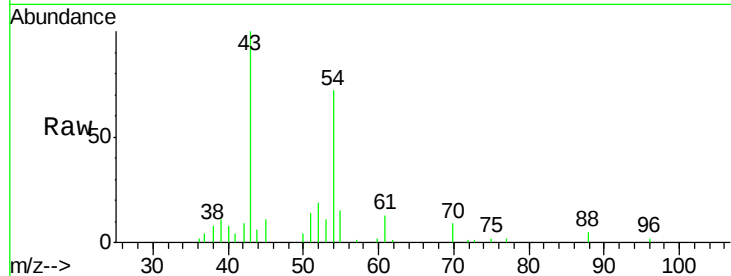




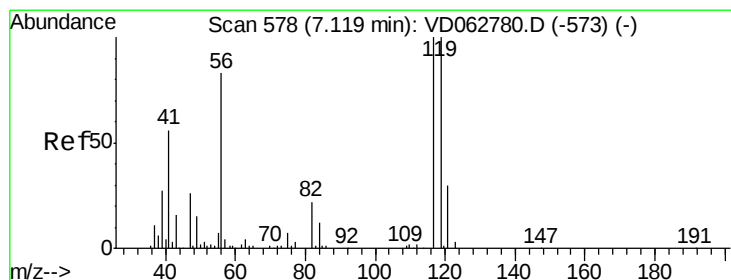
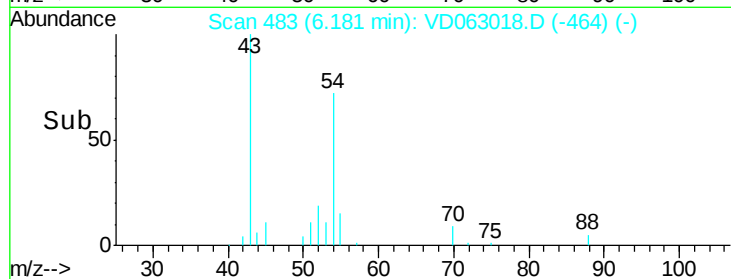
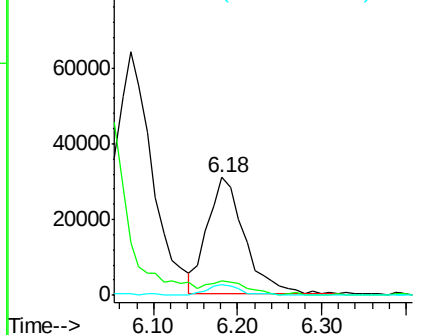
#37
Ethyl Acetate
Concen: 19.023 ug/l
RT: 6.18 min Scan# 483
Delta R.T. -0.01 min
Lab File: VD063018.D
Acq: 3 Jul 2019 11:58

Instrument :
MSVOA_D
ClientSampleId :
VD0703SBS01

Tot Ion: 43 Resp: 94919
Ion Ratio Lower Upper
43 100
61 12.6 11.6 17.4
70 8.7 6.4 9.6

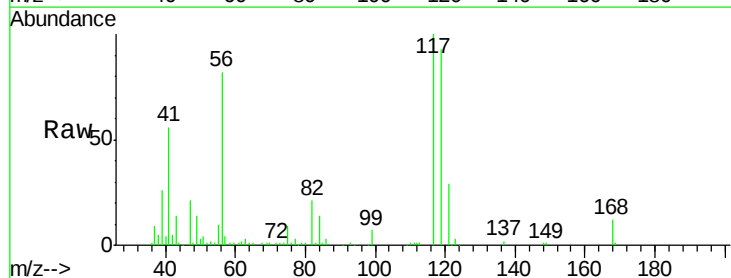


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

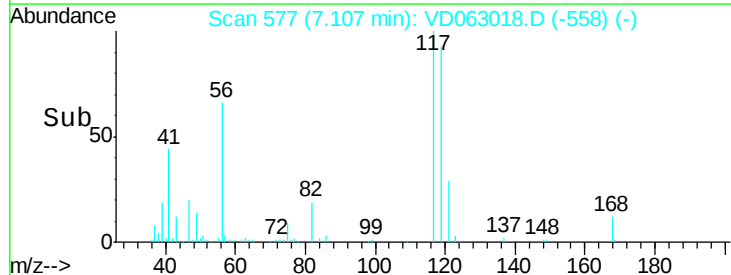
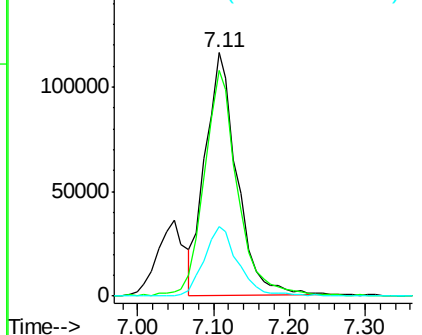


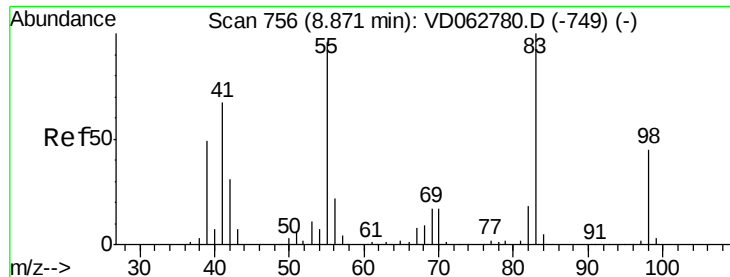
#38
Carbon Tetrachloride
Concen: 19.630 ug/l
RT: 7.11 min Scan# 577
Delta R.T. -0.01 min
Lab File: VD063018.D
Acq: 3 Jul 2019 11:58

Tgt Ion: 117 Resp: 338532
Ion Ratio Lower Upper
117 100
119 92.9 75.4 113.2
121 28.6 22.3 33.5



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

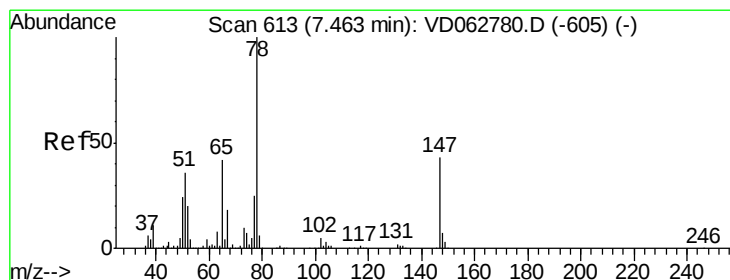
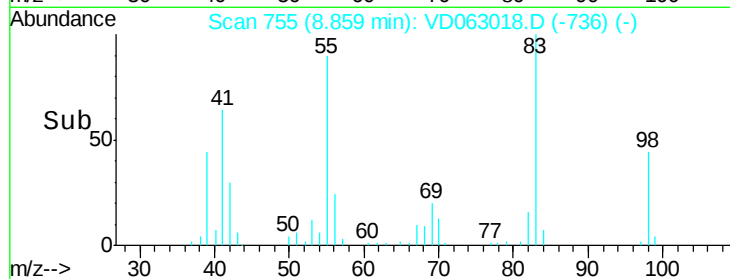
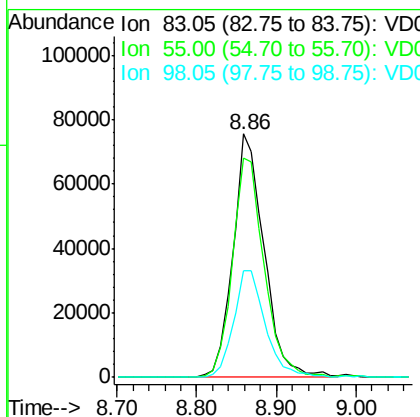
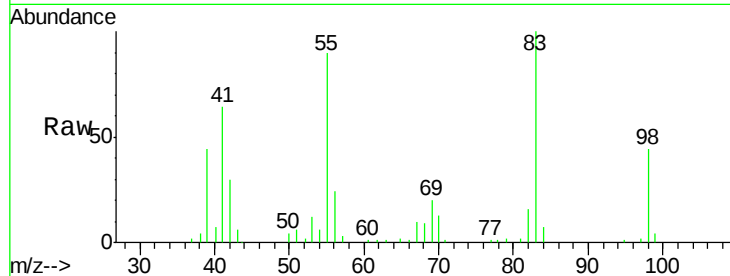




#39
Methvlcvclohexane
Concen: 20.230 ug/l
RT: 8.86 min Scan# 755
Delta R.T. -0.01 min
Lab File: VD063018.D
Acq: 3 Jul 2019 11:58

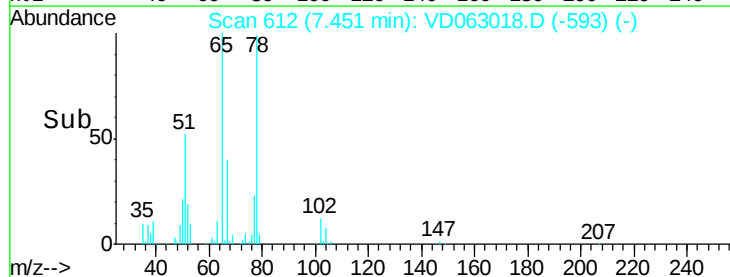
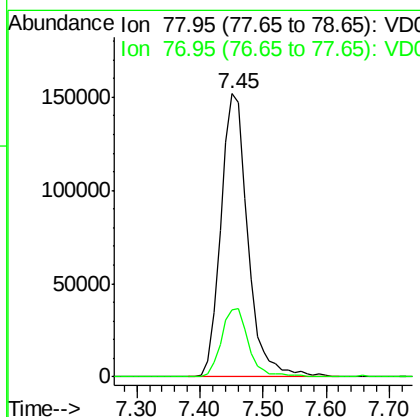
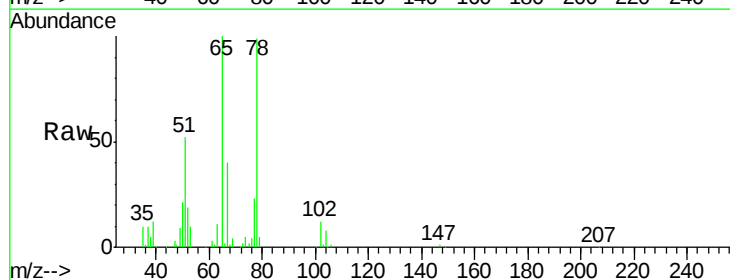
Instrument :
MSVOA_D
ClientSampleId :
VD0703SBS01

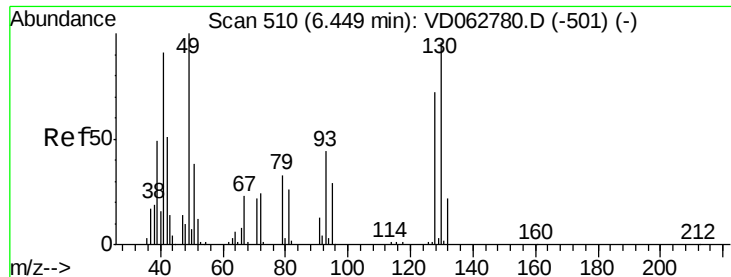
Tot Ion: 83 Resp: 204191
Ion Ratio Lower Upper
83 100
55 90.3 76.6 115.0
98 43.9 35.7 53.5



#40
Benzene
Concen: 19.657 ug/l
RT: 7.45 min Scan# 612
Delta R.T. -0.01 min
Lab File: VD063018.D
Acq: 3 Jul 2019 11:58

Tgt Ion: 78 Resp: 452449
Ion Ratio Lower Upper
78 100
77 23.7 20.2 30.2

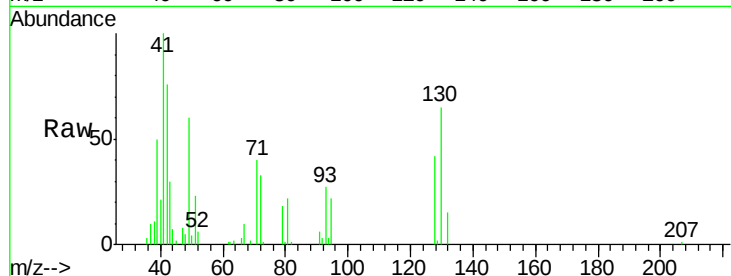




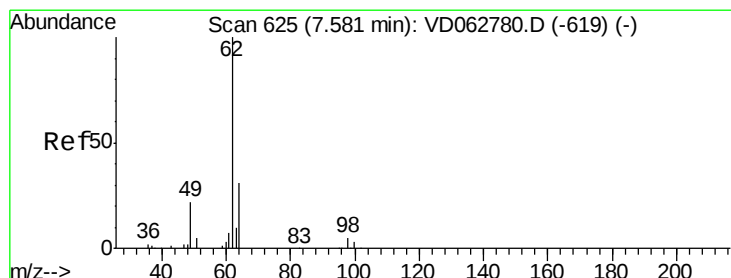
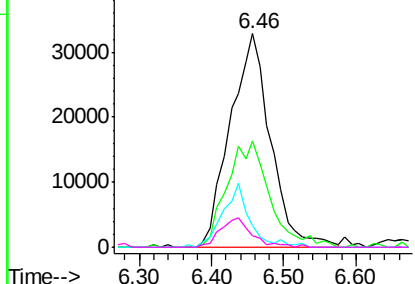
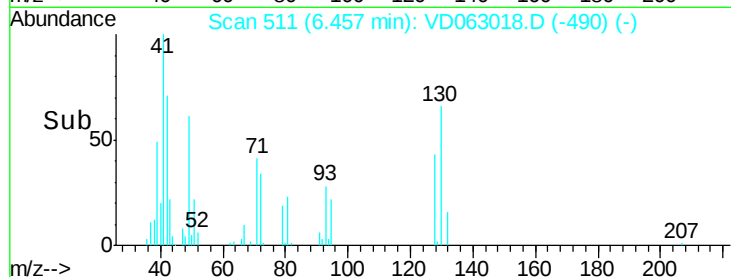
#41
Methacrylonitrile
Concen: 21.211 ug/l
RT: 6.46 min Scan# 511
Delta R.T. 0.01 min
Lab File: VD063018.D
Acq: 3 Jul 2019 11:58

Instrument :
MSVOA_D
ClientSampleId :
VD0703SBS01

Tot Ion: 41 Resp: 128264
Ion Ratio Lower Upper
41 100
39 49.9 43.2 64.8
67 9.9 19.9 29.9#
52 5.6 10.2 15.4#

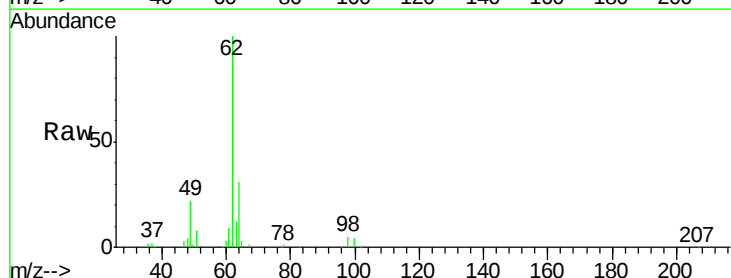


Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 38.95 (38.65 to 39.65): VDC
Ion 67.00 (66.70 to 67.70): VDC
Ion 52.00 (51.70 to 52.70): VDC

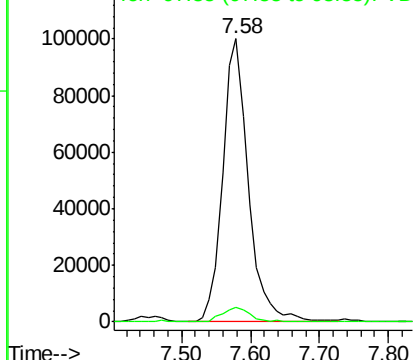
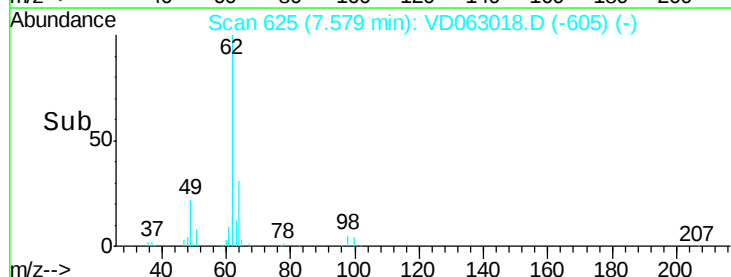


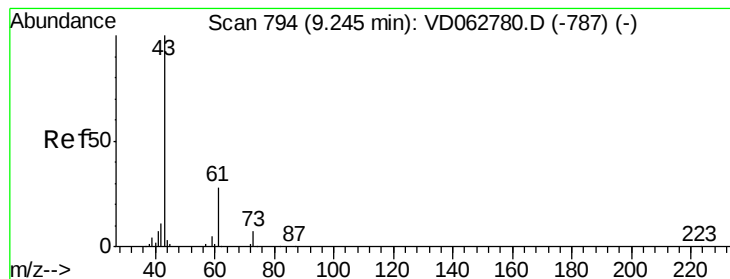
#42
1,2-Dichloroethane
Concen: 20.592 ug/l
RT: 7.58 min Scan# 625
Delta R.T. -0.00 min
Lab File: VD063018.D
Acq: 3 Jul 2019 11:58

Tgt Ion: 62 Resp: 258559
Ion Ratio Lower Upper
62 100
98 5.1 0.0 10.0



Abundance Ion 61.95 (61.65 to 62.65): VDC
Ion 97.85 (97.55 to 98.55): VDC





#43

Isopropyl Acetate

Concen: 21.273 ug/l

RT: 9.24 min Scan# 794

Delta R.T. -0.00 min

Lab File: VD063018.D

Acq: 3 Jul 2019 11:58

Instrument :

MSVOA_D

ClientSampleId :

VD0703SBS01

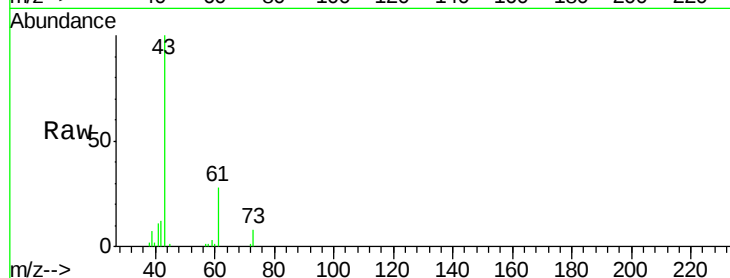
Tot Ion: 43 Resp: 127884

Ion Ratio Lower Upper

43 100

61 27.7 22.4 33.6

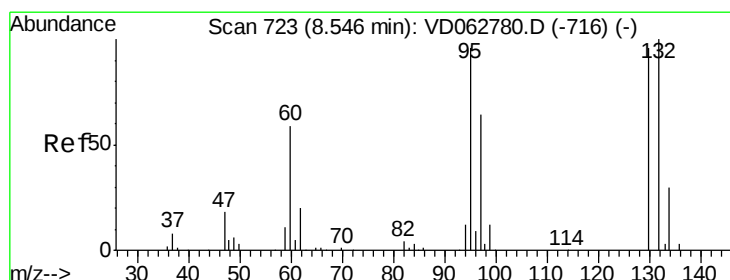
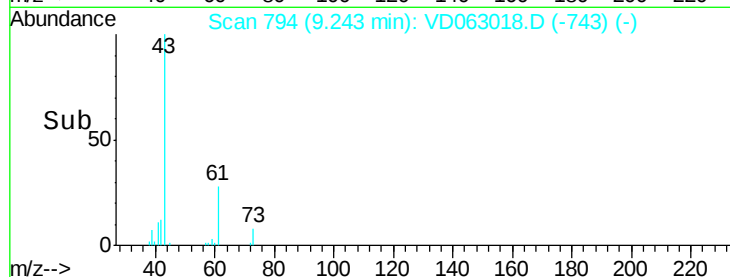
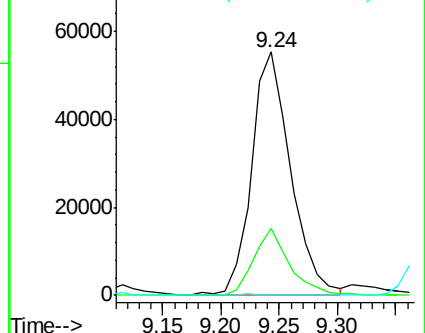
87 0.0 0.3 0.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 20.621 ug/l

RT: 8.54 min Scan# 723

Delta R.T. -0.00 min

Lab File: VD063018.D

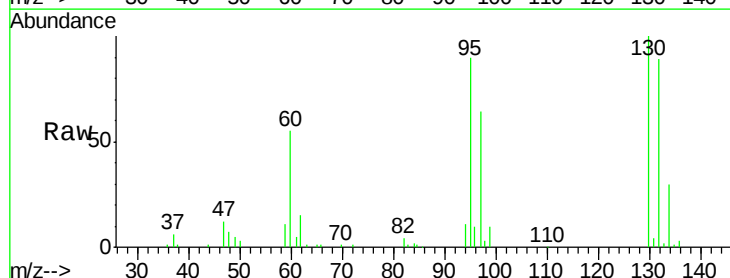
Acq: 3 Jul 2019 11:58

Tgt Ion:130 Resp: 186082

Ion Ratio Lower Upper

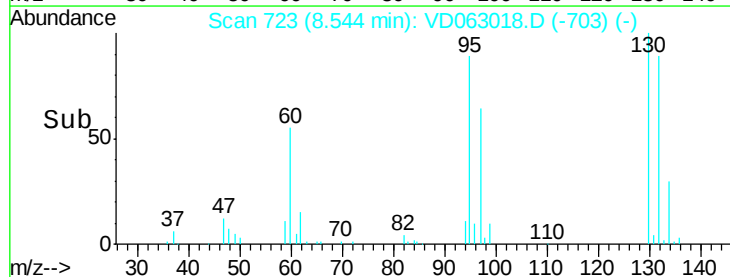
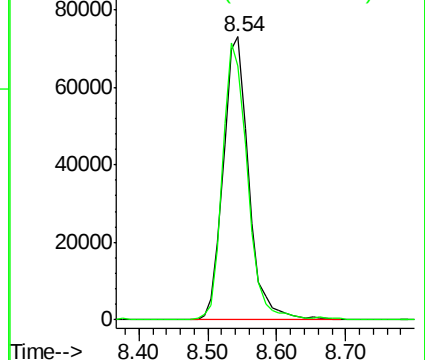
130 100

95 89.6 0.0 201.6



Abundance Ion 129.80 (129.50 to 130.50): VDC

Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 19.837 ug/l

RT: 8.94 min Scan# 763

Delta R.T. -0.01 min

Lab File: VD063018.D

Acq: 3 Jul 2019 11:58

Instrument :

MSVOA_D

ClientSampleId :

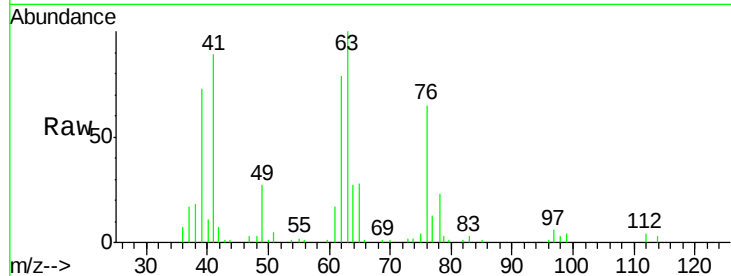
VD0703SBS01

Tot Ion: 63 Resp: 113532

Ion Ratio Lower Upper

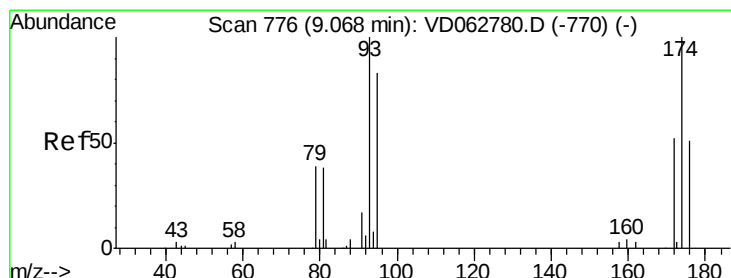
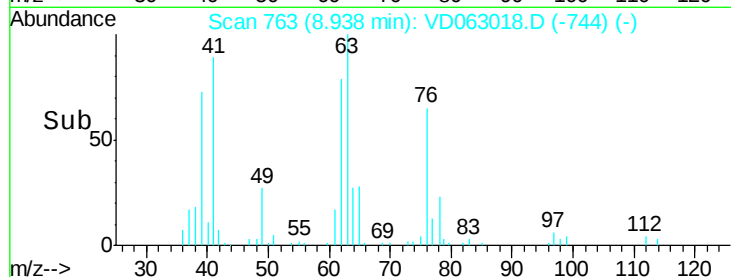
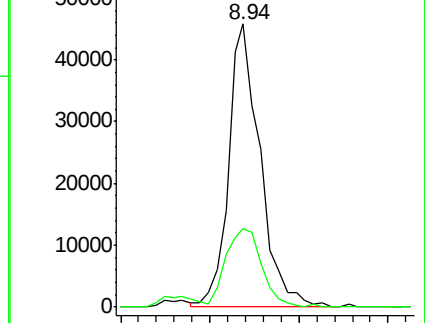
63 100

65 27.7 24.2 36.2



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 20.816 ug/l

RT: 9.07 min Scan# 776

Delta R.T. -0.00 min

Lab File: VD063018.D

Acq: 3 Jul 2019 11:58

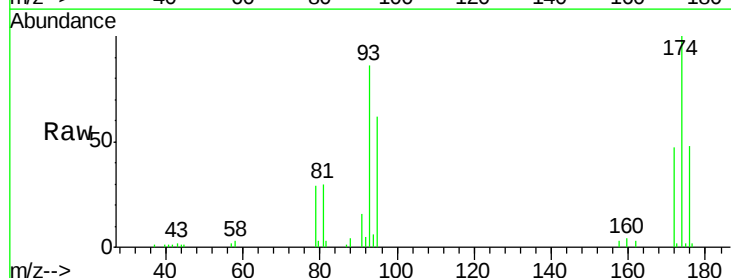
Tgt Ion: 93 Resp: 102340

Ion Ratio Lower Upper

93 100

95 72.4 66.6 100.0

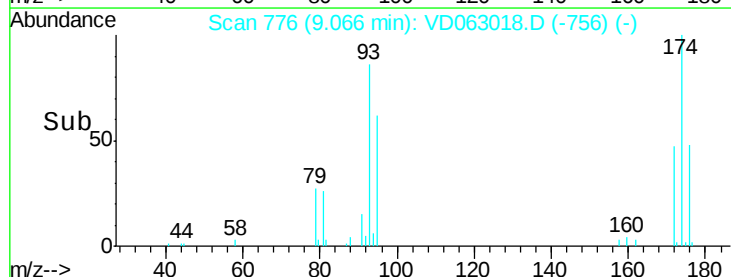
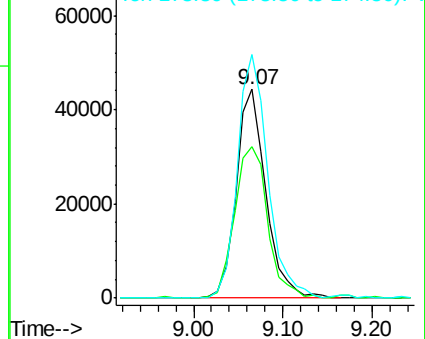
174 116.5 79.7 119.5

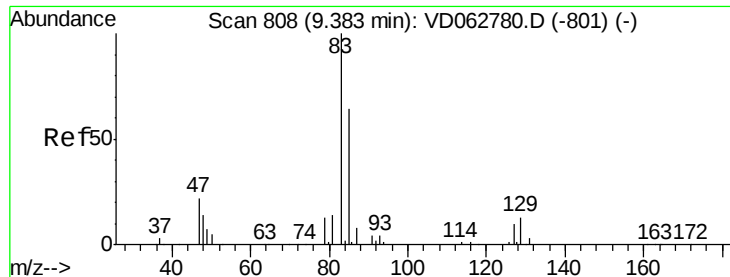


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V





#47

Bromodichloromethane

Concen: 20.400 ug/l

RT: 9.38 min Scan# 808

Delta R.T. -0.00 min

Lab File: VD063018.D

Acq: 3 Jul 2019 11:58

Instrument :

MSVOA_D

ClientSampleId :

VD0703SBS01

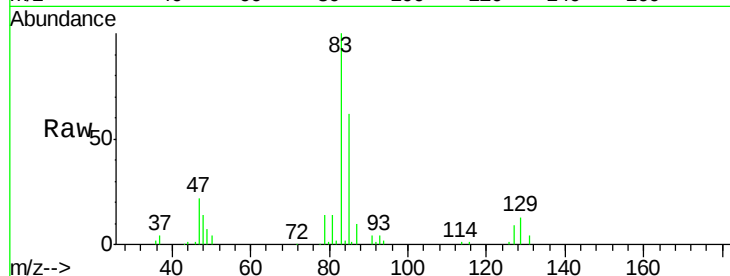
Tot Ion: 83 Resp: 260476

Ion Ratio Lower Upper

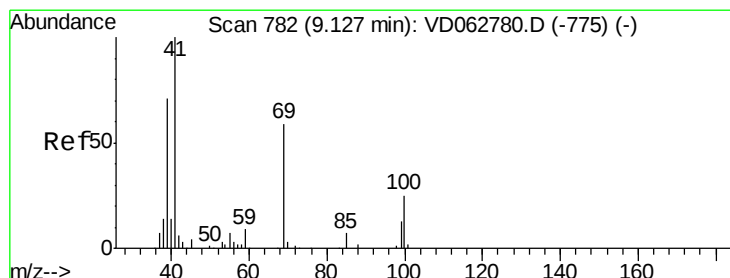
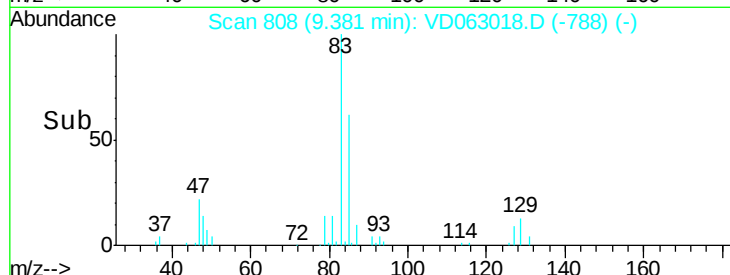
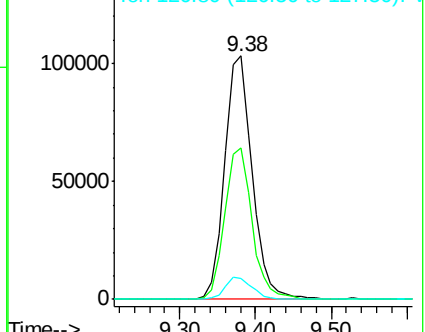
83 100

85 62.0 51.6 77.4

127 8.7 7.8 11.6



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



#48

Methyl methacrylate

Concen: 20.112 ug/l

RT: 9.12 min Scan# 782

Delta R.T. -0.00 min

Lab File: VD063018.D

Acq: 3 Jul 2019 11:58

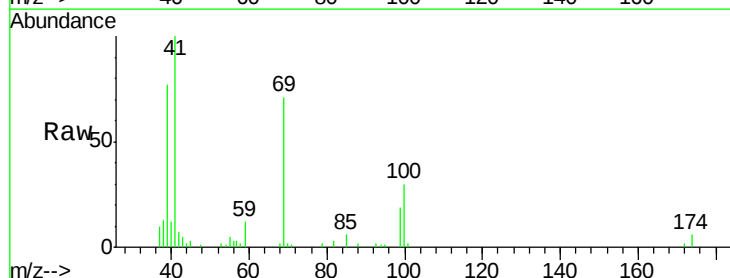
Tgt Ion: 41 Resp: 85918

Ion Ratio Lower Upper

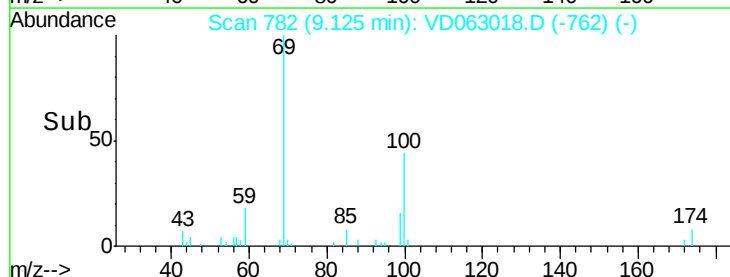
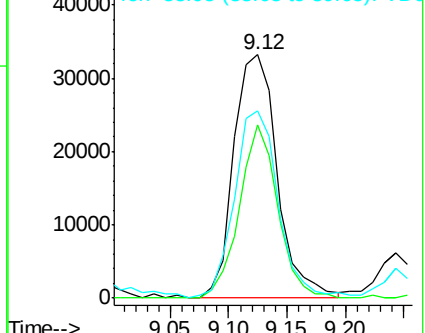
41 100

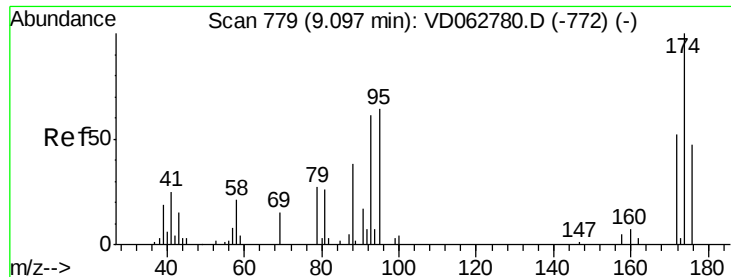
69 71.3 47.2 70.8#

39 76.8 57.4 86.2



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

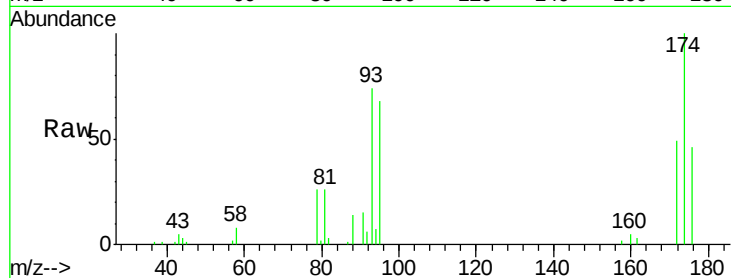




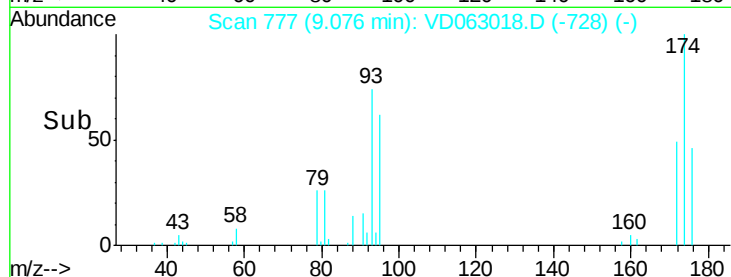
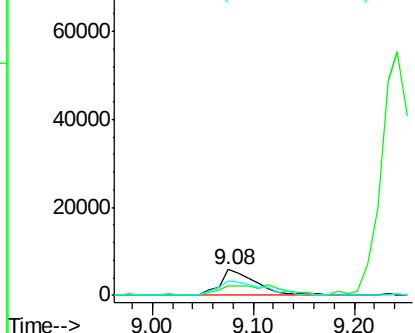
#49
1,4-Dioxane
Concen: 409.068 ug/l
RT: 9.08 min Scan# 777
Delta R.T. -0.02 min
Lab File: VD063018.D
Acq: 3 Jul 2019 11:58

Instrument :
MSVOA_D
ClientSampleId :
VD0703SBS01

Tot Ion: 88 Resp: 14539
Ion Ratio Lower Upper
88 100
43 35.8 32.1 48.1
58 55.2 44.1 66.1

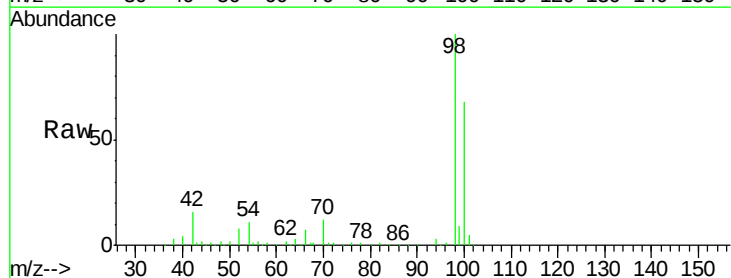


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

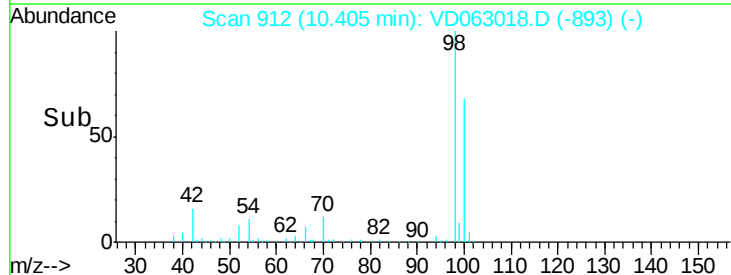
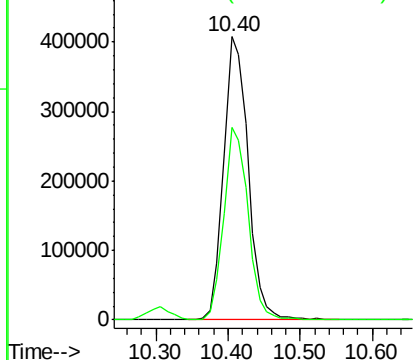


#50
Toluene-d8
Concen: 43.227 ug/l
RT: 10.40 min Scan# 912
Delta R.T. -0.01 min
Lab File: VD063018.D
Acq: 3 Jul 2019 11:58

Tgt Ion: 98 Resp: 960909
Ion Ratio Lower Upper
98 100
100 68.2 54.7 82.1



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

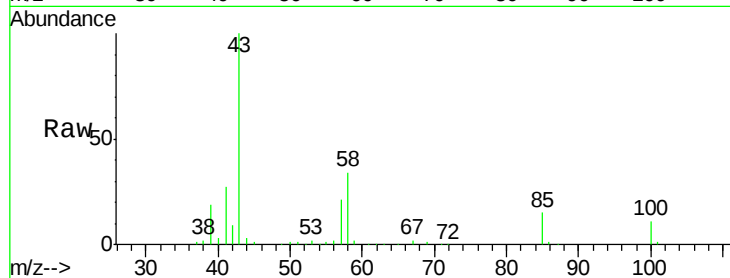




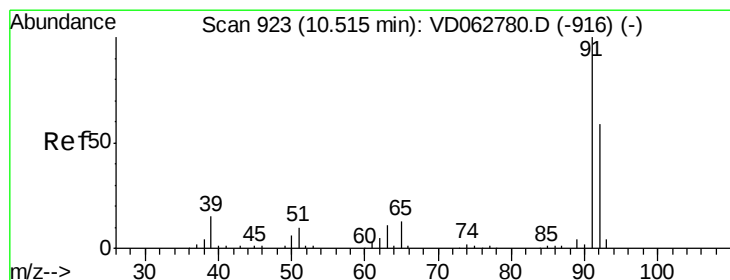
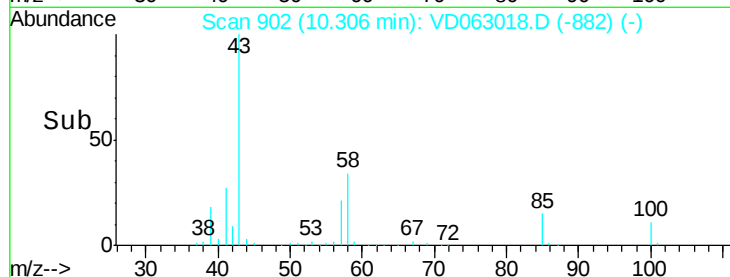
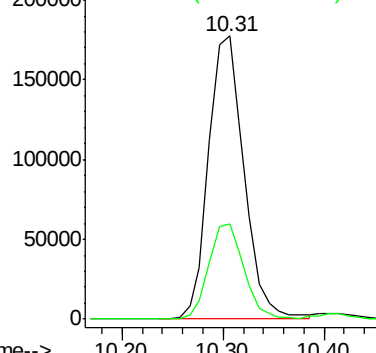
#51
4-Methyl-2-Pentanone
Concen: 102.134 ug/l
RT: 10.31 min Scan# 902
Delta R.T. -0.00 min
Lab File: VD063018.D
Acq: 3 Jul 2019 11:58

Instrument :
MSVOA_D
ClientSampleId :
VD0703SBS01

Tot Ion: 43 Resp: 435314
Ion Ratio Lower Upper
43 100
58 33.8 26.6 40.0

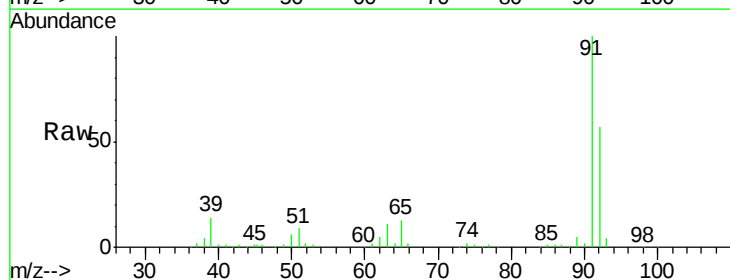


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

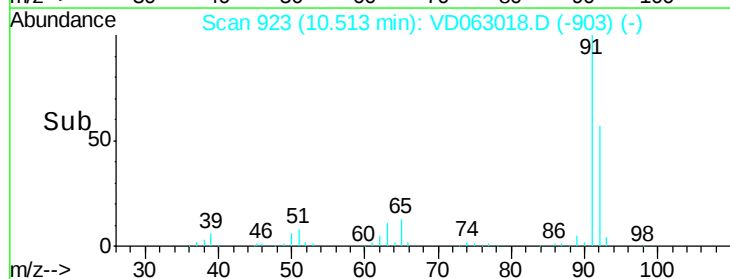
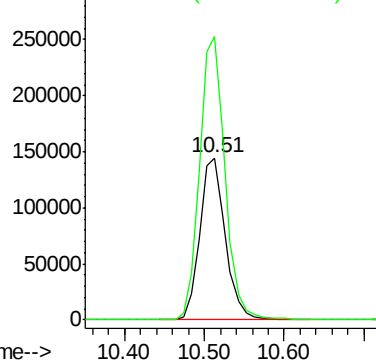


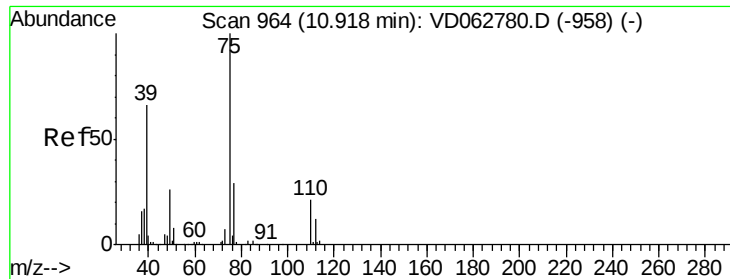
#52
Toluene
Concen: 20.915 ug/l
RT: 10.51 min Scan# 923
Delta R.T. -0.00 min
Lab File: VD063018.D
Acq: 3 Jul 2019 11:58

Tgt Ion: 92 Resp: 323606
Ion Ratio Lower Upper
92 100
91 174.8 136.3 204.5



Abundance Ion 92.00 (91.70 to 92.70): VDC
Ion 91.00 (90.70 to 91.70): VDC

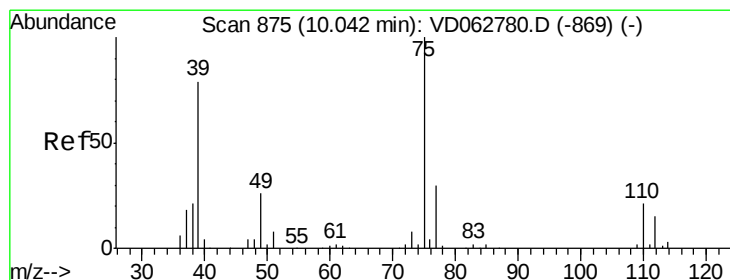
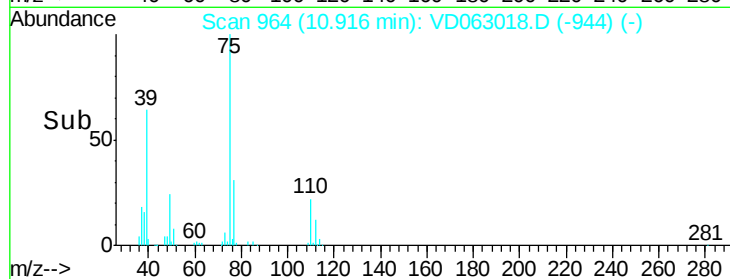
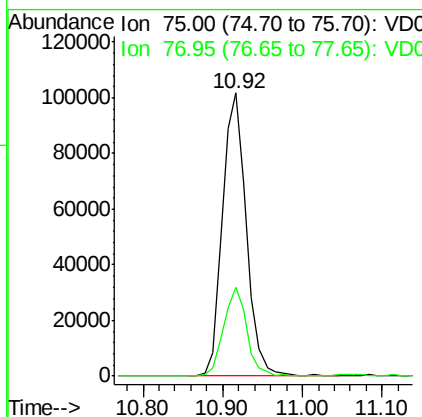
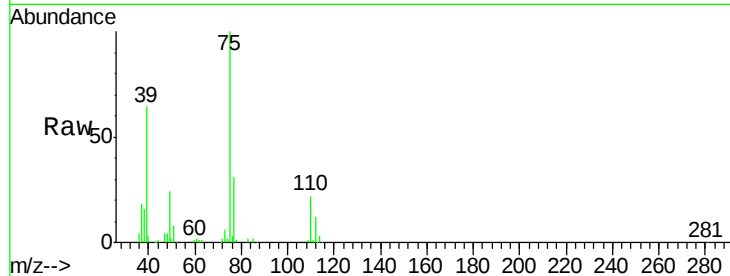




#53
 t-1,3-Dichloropropene
 Concen: 20.574 ug/l
 RT: 10.92 min Scan# 964
 Delta R.T. -0.00 min
 Lab File: VD063018.D
 Acq: 3 Jul 2019 11:58

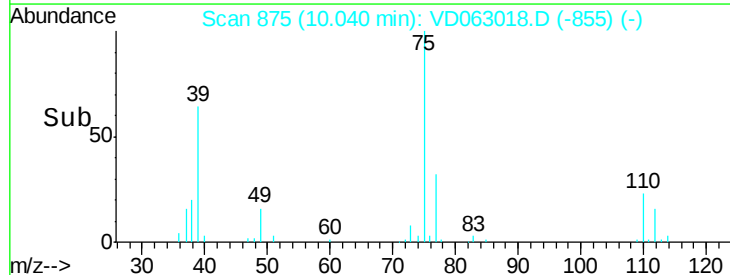
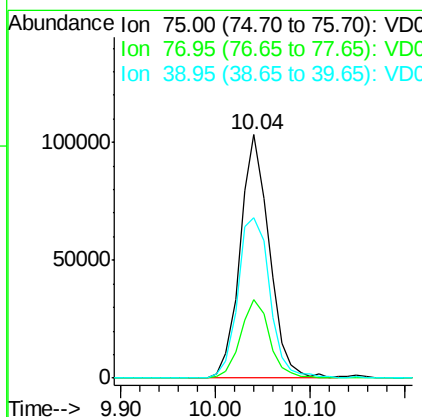
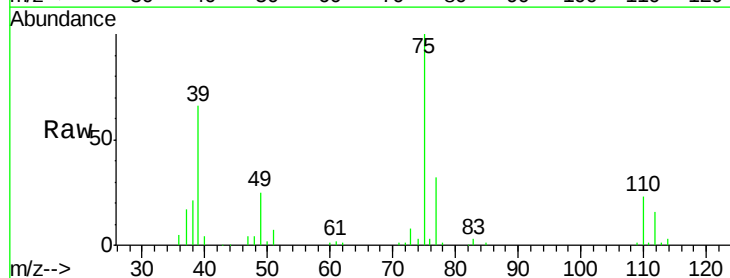
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0703SBS01

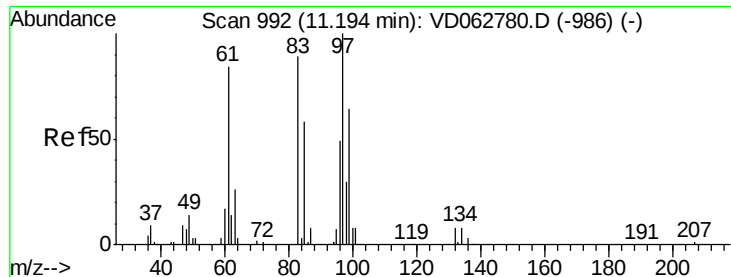
Tot Ion: 75 Resp: 215018
 Ion Ratio Lower Upper
 75 100
 77 31.5 23.2 34.8



#54
 cis-1,3-Dichloropropene
 Concen: 19.447 ug/l
 RT: 10.04 min Scan# 875
 Delta R.T. -0.00 min
 Lab File: VD063018.D
 Acq: 3 Jul 2019 11:58

Tgt Ion: 75 Resp: 220902
 Ion Ratio Lower Upper
 75 100
 77 32.4 24.2 36.2
 39 66.1 63.5 95.3

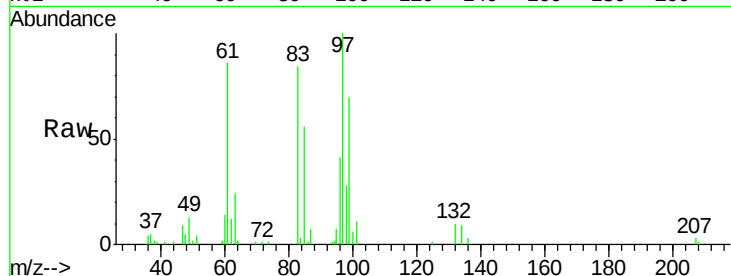




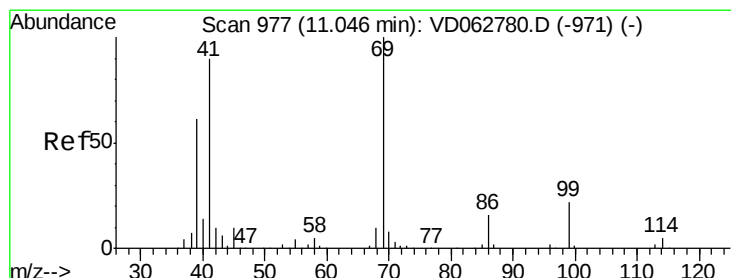
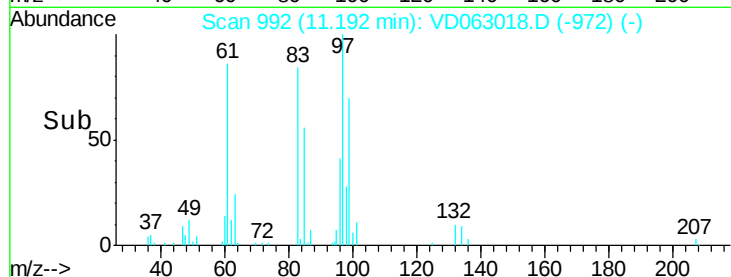
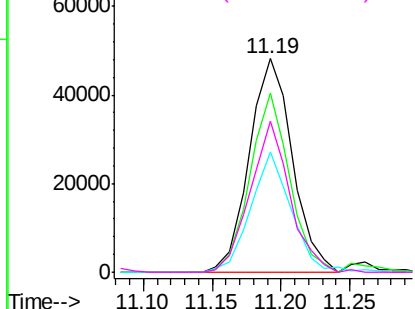
#55
 1,1,2-Trichloroethane
 Concen: 19.797 ug/l
 RT: 11.19 min Scan# 992
 Delta R.T. -0.00 min
 Lab File: VD063018.D
 Acq: 3 Jul 2019 11:58

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0703SBS01

Tot Ion: 97 Resp: 105233
 Ion Ratio Lower Upper
 97 100
 83 84.2 71.0 106.4
 85 56.4 46.6 69.8
 99 70.5 51.4 77.0

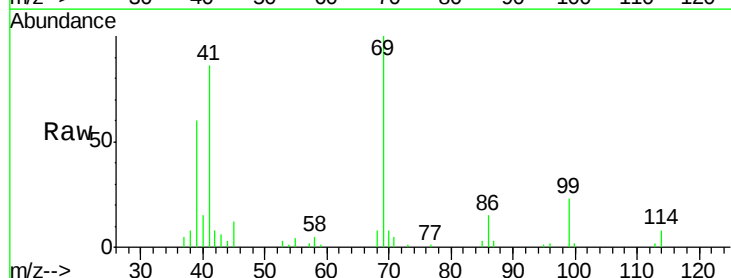


Abundance Ion 96.85 (96.55 to 97.55): VDC
 Ion 82.95 (82.65 to 83.65): VDC
 Ion 84.95 (84.65 to 85.65): VDC
 Ion 98.85 (98.55 to 99.55): VDC

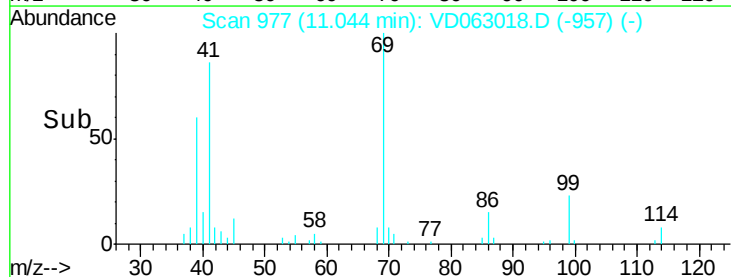
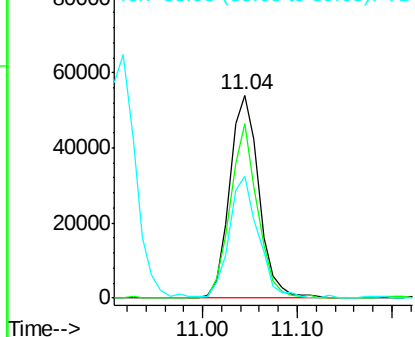


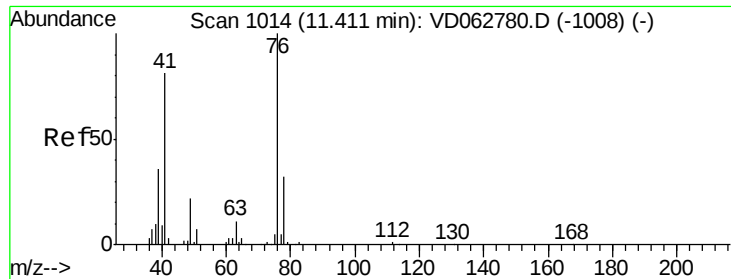
#56
 Ethyl methacrylate
 Concen: 20.409 ug/l
 RT: 11.04 min Scan# 977
 Delta R.T. -0.00 min
 Lab File: VD063018.D
 Acq: 3 Jul 2019 11:58

Tgt Ion: 69 Resp: 115941
 Ion Ratio Lower Upper
 69 100
 41 85.8 72.0 108.0
 39 60.5 49.5 74.3



Abundance Ion 69.00 (68.70 to 69.70): VDC
 Ion 41.05 (40.75 to 41.75): VDC
 Ion 38.95 (38.65 to 39.65): VDC

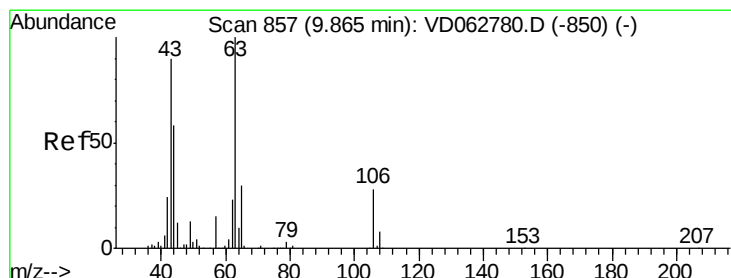
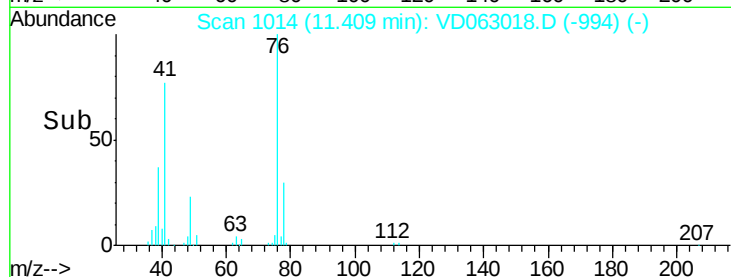
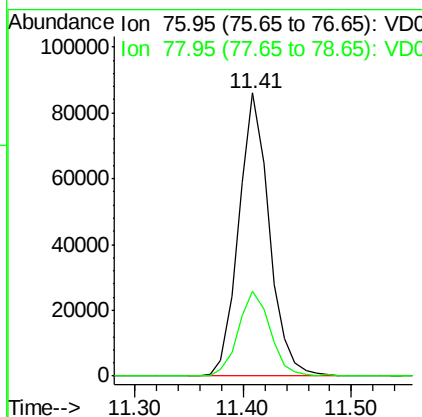
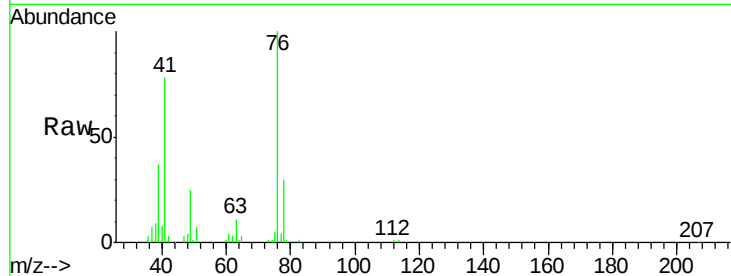




#57
 1,3-Dichloropropane
 Concen: 20.705 ug/l
 RT: 11.41 min Scan# 1014
 Delta R.T. -0.00 min
 Lab File: VD063018.D
 Acq: 3 Jul 2019 11:58

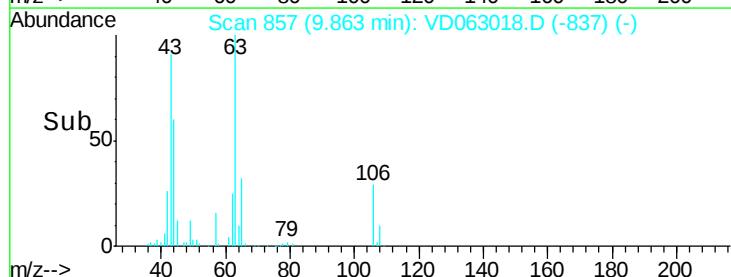
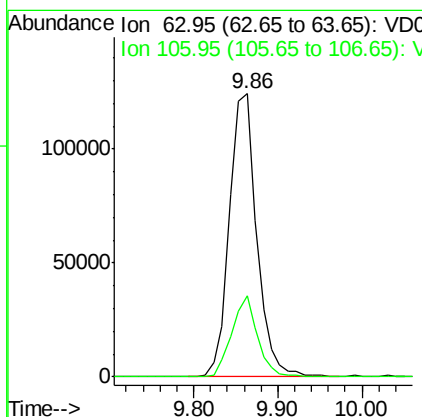
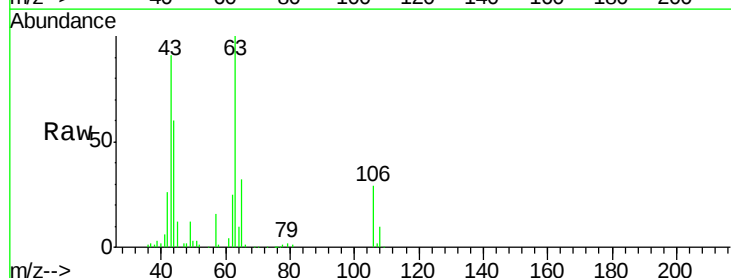
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0703SBS01

Tot Ion: 76 Resp: 168520
 Ion Ratio Lower Upper
 76 100
 78 30.0 25.4 38.0



#58
 2-Chloroethyl Vinyl ether
 Concen: 96.648 ug/l
 RT: 9.86 min Scan# 857
 Delta R.T. -0.00 min
 Lab File: VD063018.D
 Acq: 3 Jul 2019 11:58

Tgt Ion: 63 Resp: 281865
 Ion Ratio Lower Upper
 63 100
 106 28.7 22.1 33.1

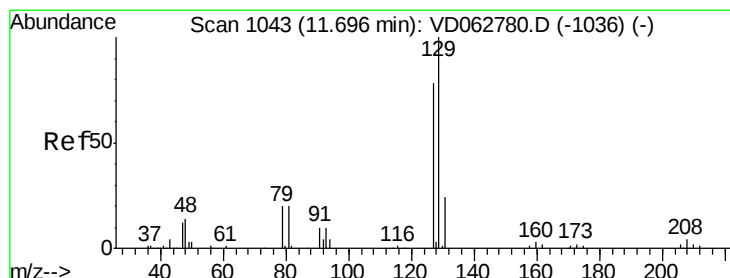
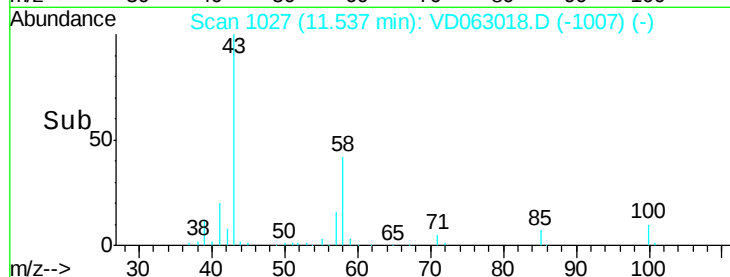
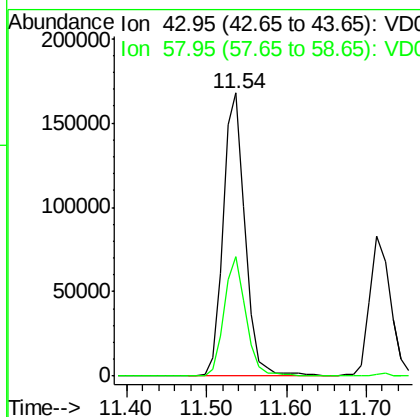
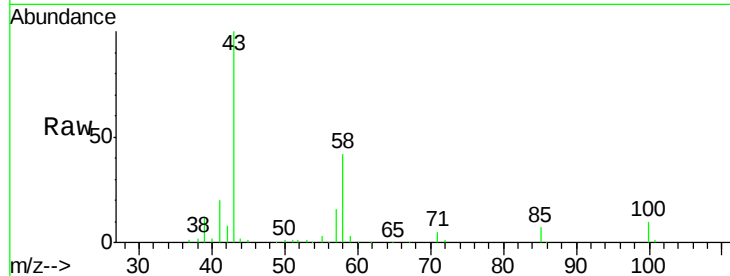




#59
2-Hexanone
Concen: 107.197 ug/l
RT: 11.54 min Scan# 1027
Delta R.T. -0.00 min
Lab File: VD063018.D
Acq: 3 Jul 2019 11:58

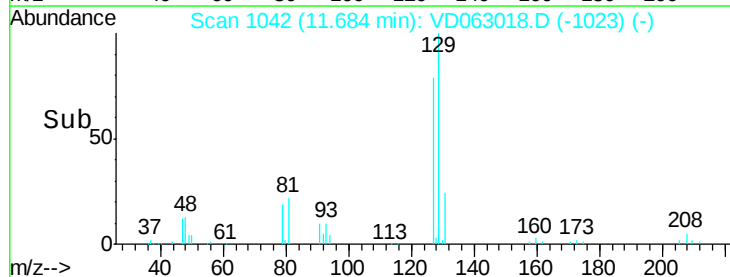
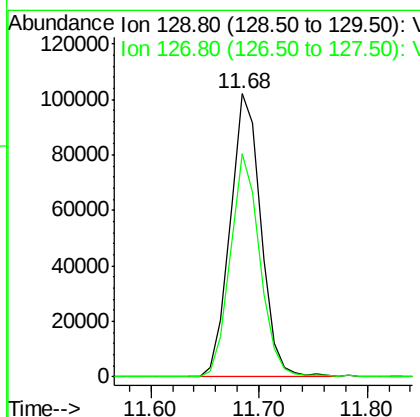
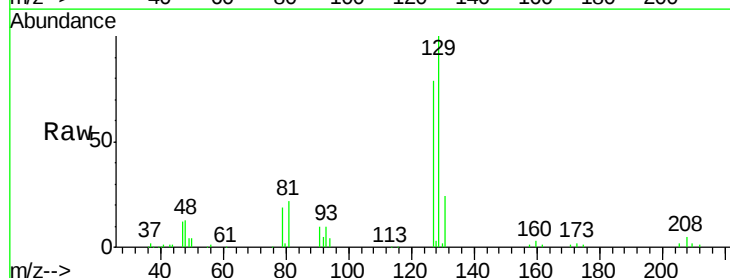
Instrument :
MSVOA_D
ClientSampleId :
VD0703SBS01

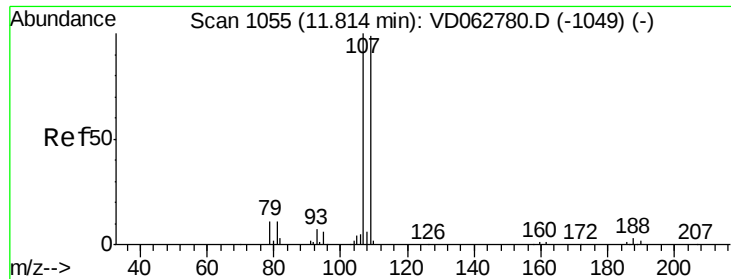
Tot Ion: 43 Resp: 325395
Ion Ratio Lower Upper
43 100
58 42.4 22.4 67.2



#60
Dibromochloromethane
Concen: 20.333 ug/l
RT: 11.68 min Scan# 1042
Delta R.T. -0.01 min
Lab File: VD063018.D
Acq: 3 Jul 2019 11:58

Tgt Ion: 129 Resp: 201324
Ion Ratio Lower Upper
129 100
127 78.9 38.9 116.6





#61

1,2-Dibromoethane

Concen: 19.901 ug/l

RT: 11.80 min Scan# 1054

Delta R.T. -0.01 min

Lab File: VD063018.D

Acq: 3 Jul 2019 11:58

Instrument :

MSVOA_D

ClientSampleId :

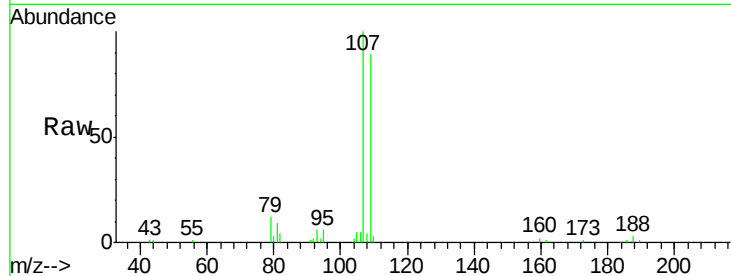
VD0703SBS01

Tot Ion:107 Resp: 124940

Ion Ratio Lower Upper

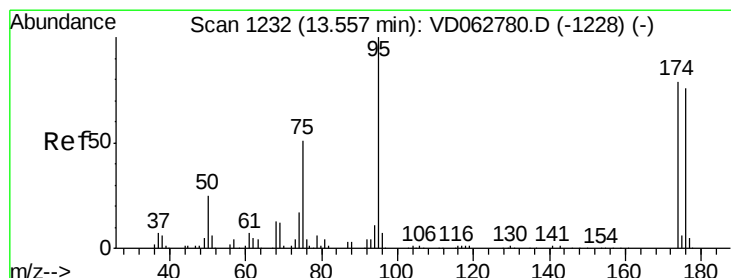
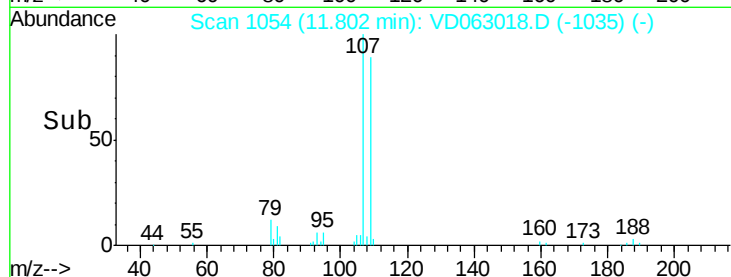
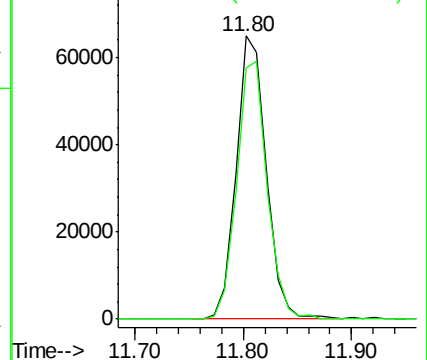
107 100

109 88.9 79.3 118.9



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V



#62

4-Bromofluorobenzene

Concen: 44.122 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD063018.D

Acq: 3 Jul 2019 11:58

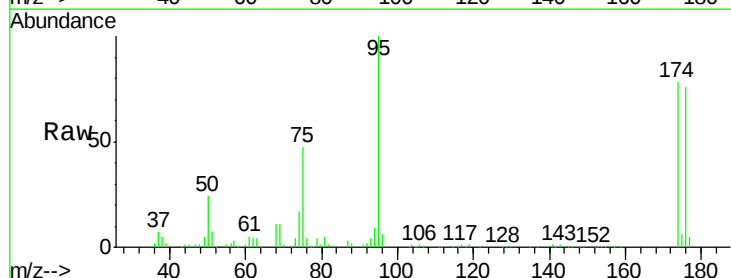
Tgt Ion: 95 Resp: 445984

Ion Ratio Lower Upper

95 100

174 77.9 0.0 158.0

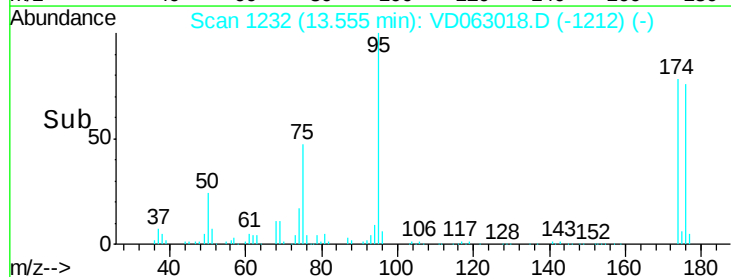
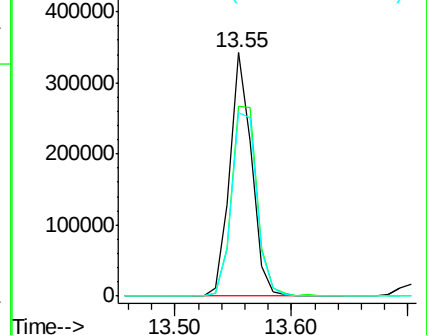
176 75.6 0.0 151.6

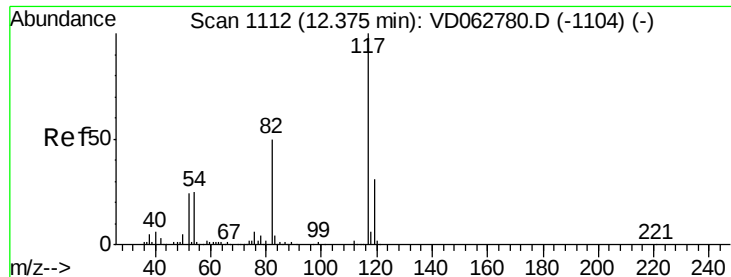


Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

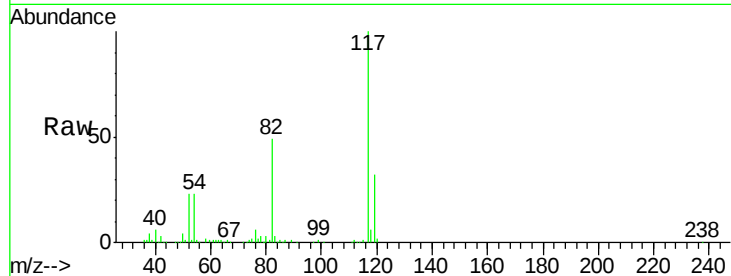




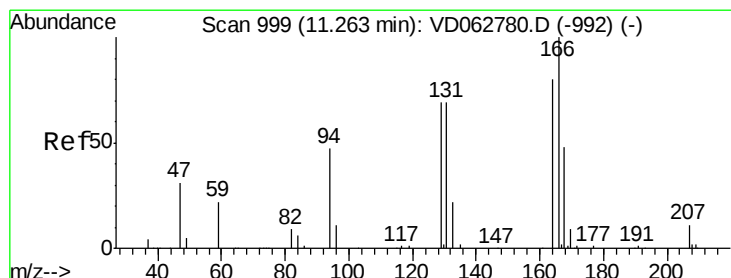
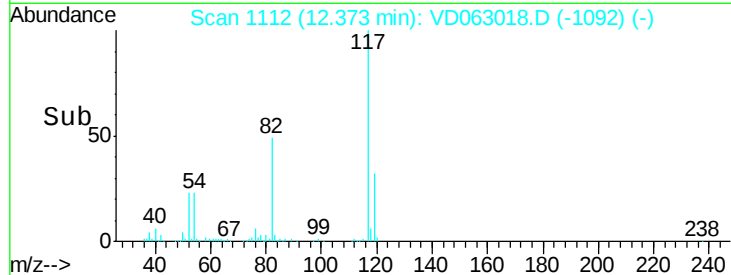
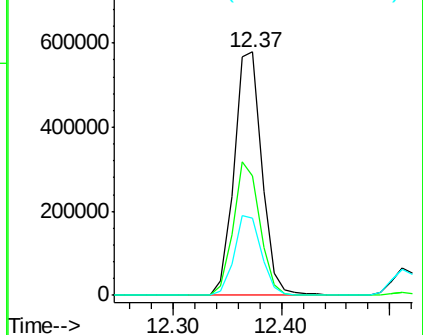
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. -0.00 min
Lab File: VD063018.D
Acq: 3 Jul 2019 11:58

Instrument :
MSVOA_D
ClientSampleId :
VD0703SBS01

Tot Ion:117 Resp: 1032571
Ion Ratio Lower Upper
117 100
82 49.1 40.4 60.6
119 31.8 25.2 37.8

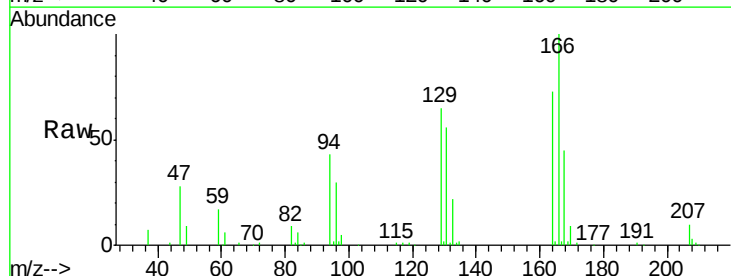


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

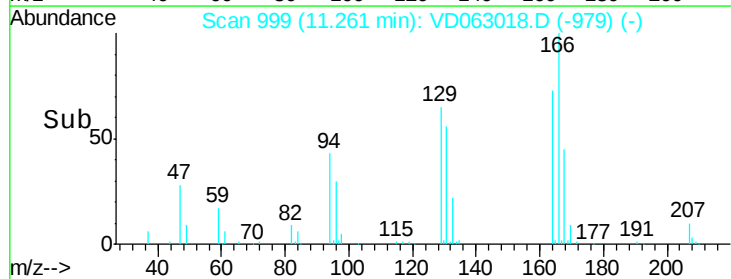
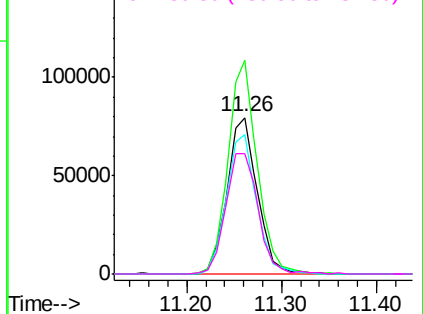


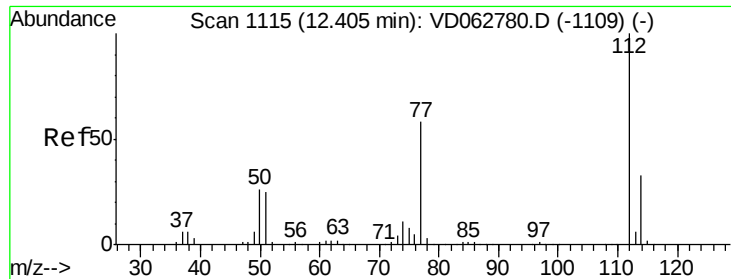
#64
Tetrachloroethene
Concen: 20.591 ug/l
RT: 11.26 min Scan# 999
Delta R.T. -0.00 min
Lab File: VD063018.D
Acq: 3 Jul 2019 11:58

Tgt Ion:164 Resp: 174988
Ion Ratio Lower Upper
164 100
166 136.3 100.6 150.8
129 89.0 69.4 104.0
131 76.7 69.3 103.9



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

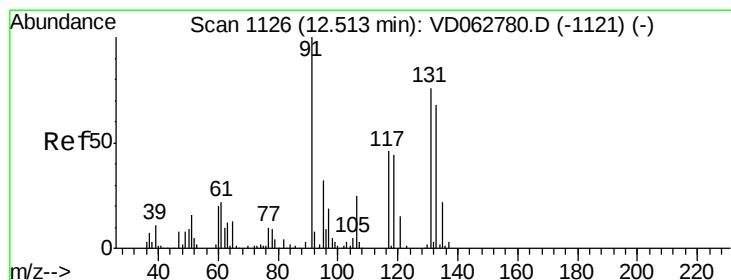
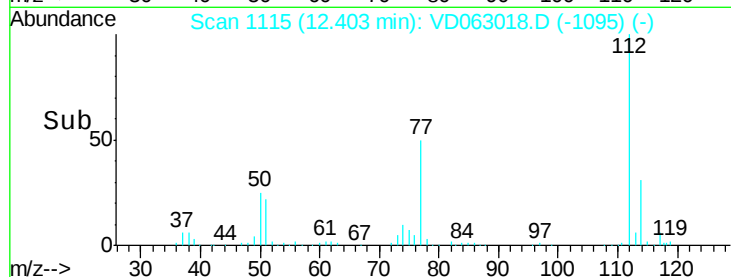
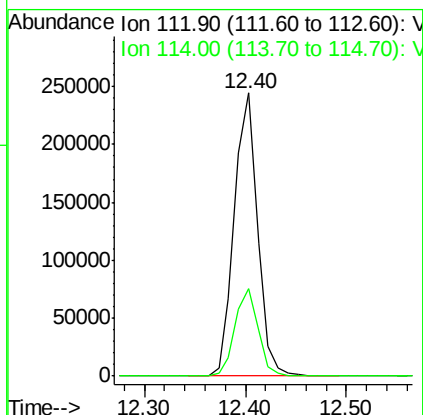
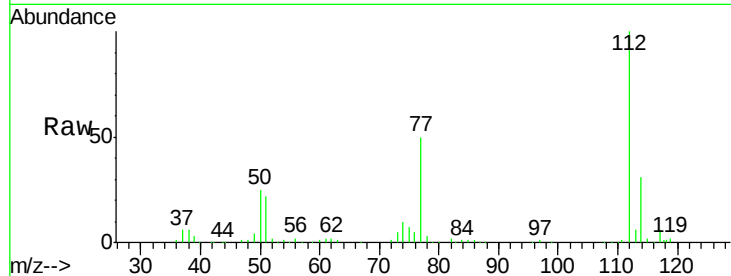




#65
Chlorobenzene
Concen: 20.446 ug/l
RT: 12.40 min Scan# 1115
Delta R.T. -0.00 min
Lab File: VD063018.D
Acq: 3 Jul 2019 11:58

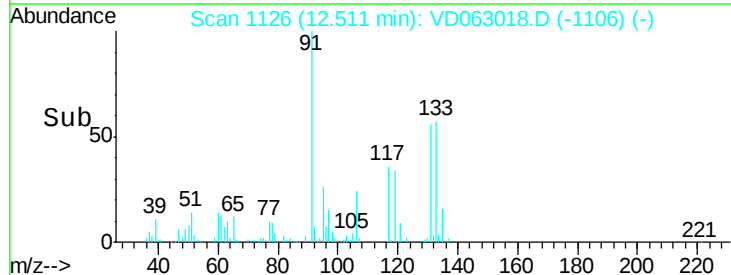
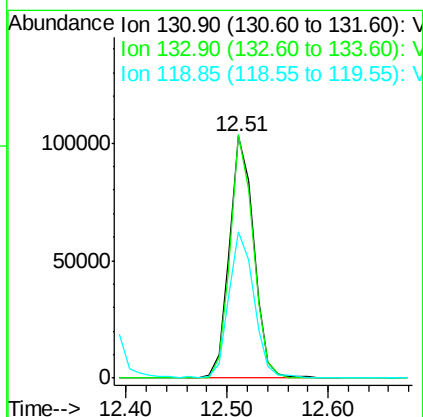
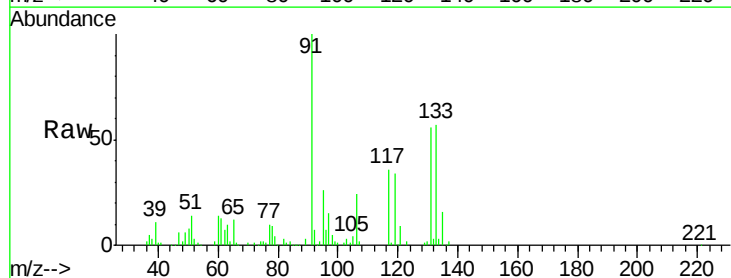
Instrument :
MSVOA_D
ClientSampleId :
VD0703SBS01

Tot Ion:112 Resp: 391812
Ion Ratio Lower Upper
112 100
114 30.8 26.3 39.5



#66
1,1,1,2-Tetrachloroethane
Concen: 19.248 ug/l
RT: 12.51 min Scan# 1126
Delta R.T. -0.00 min
Lab File: VD063018.D
Acq: 3 Jul 2019 11:58

Tgt Ion:131 Resp: 172500
Ion Ratio Lower Upper
131 100
133 100.5 44.5 133.3
119 60.6 28.6 85.9

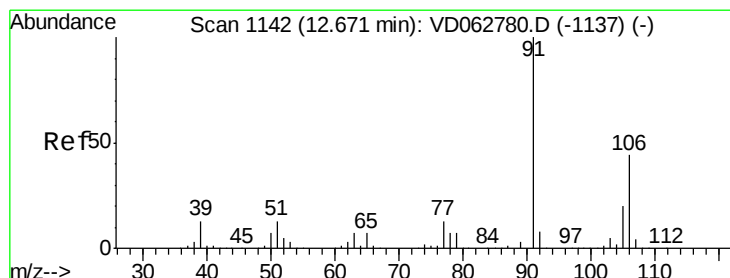
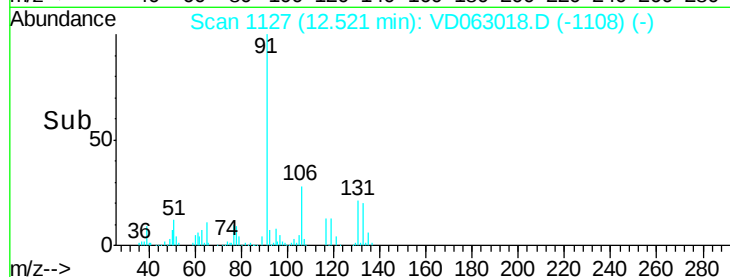
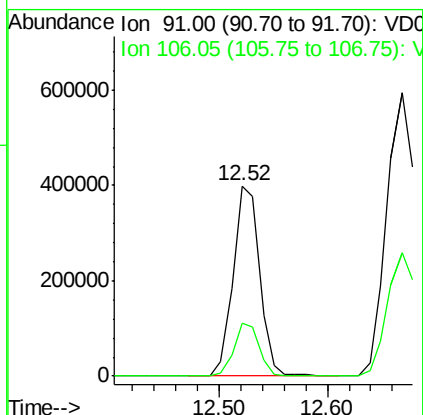
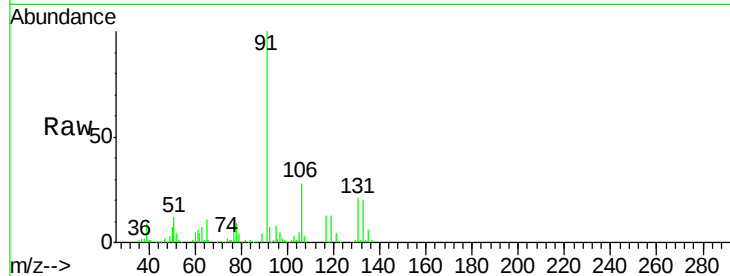




#67
Ethyl Benzene
Concen: 19.787 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. -0.01 min
Lab File: VD063018.D
Acq: 3 Jul 2019 11:58

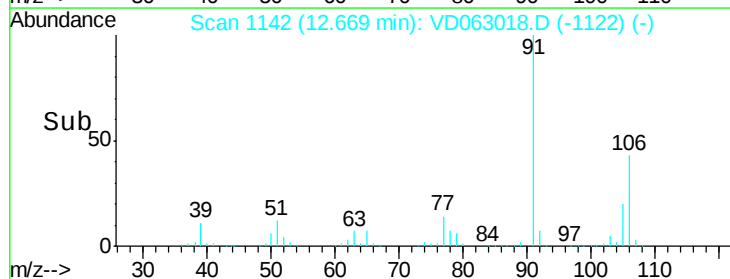
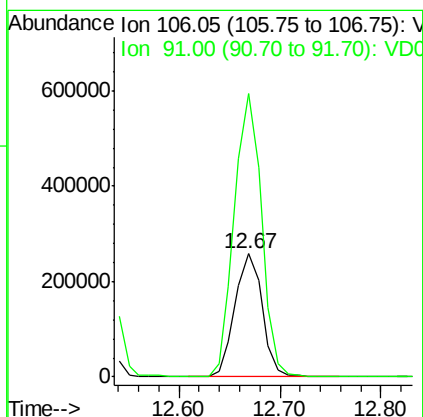
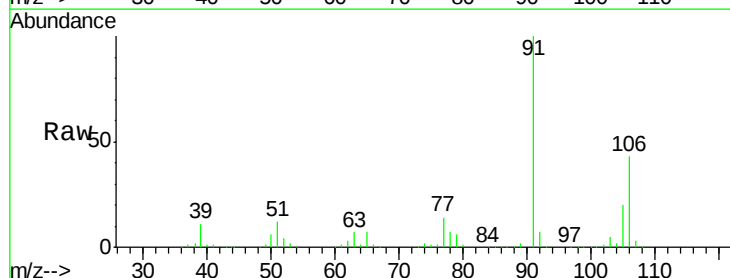
Instrument :
MSVOA_D
ClientSampleId :
VD0703SBS01

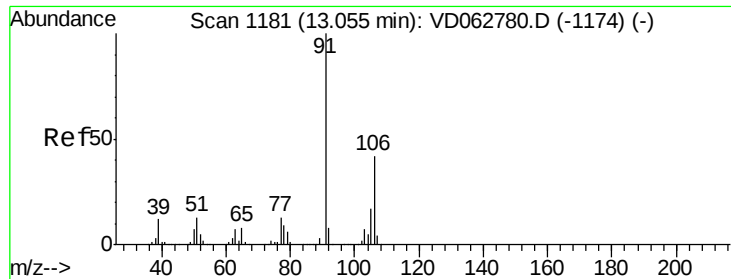
Tot Ion: 91 Resp: 680787
Ion Ratio Lower Upper
91 100
106 27.6 23.1 34.7



#68
m/p-Xylenes
Concen: 40.806 ug/l
RT: 12.67 min Scan# 1142
Delta R.T. -0.00 min
Lab File: VD063018.D
Acq: 3 Jul 2019 11:58

Tgt Ion: 106 Resp: 488986
Ion Ratio Lower Upper
106 100
91 230.3 183.0 274.6

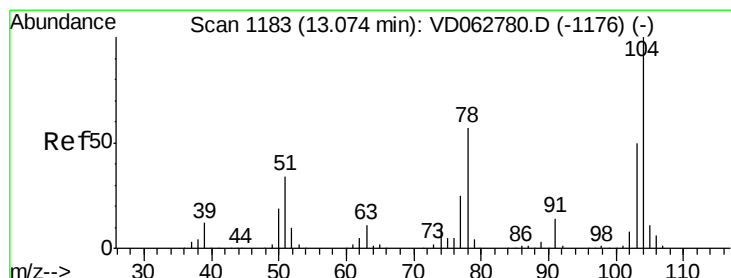
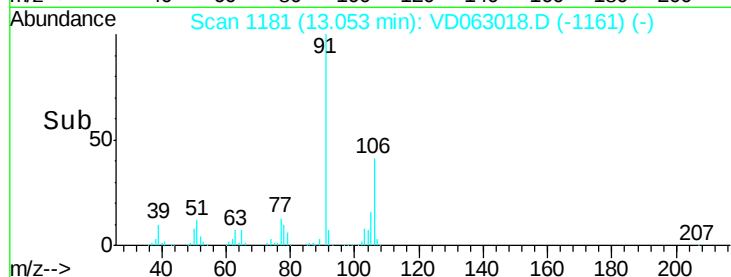
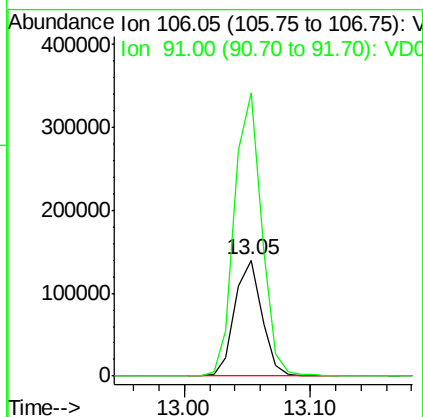
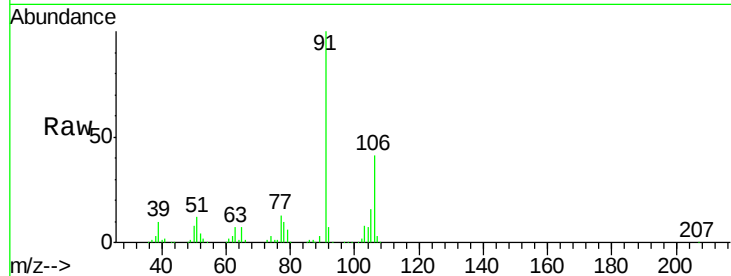




#69
o-Xylene
Concen: 19.029 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VD063018.D
Acq: 3 Jul 2019 11:58

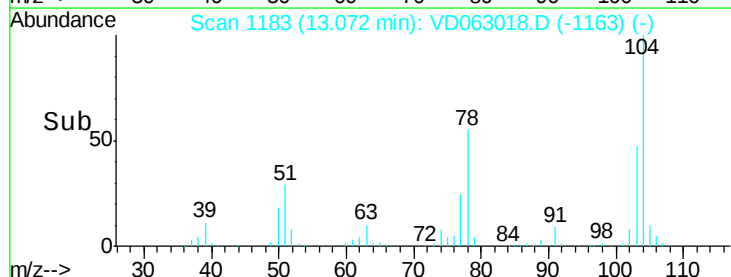
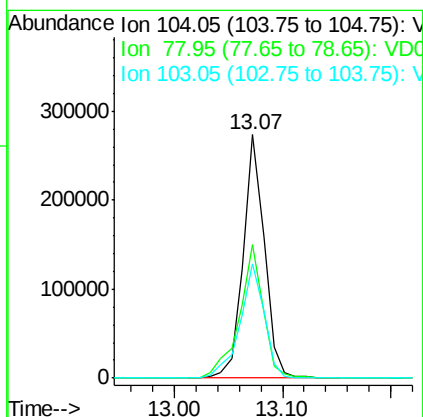
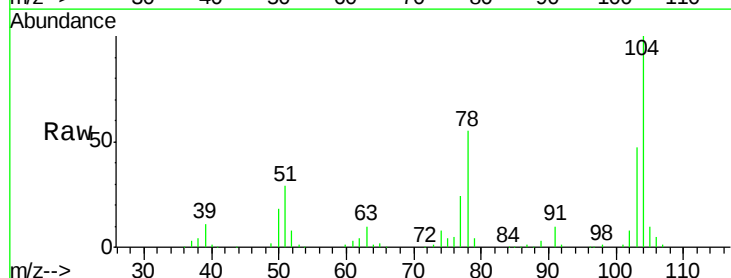
Instrument :
MSVOA_D
ClientSampleId :
VD0703SBS01

Tot Ion:106 Resp: 208448
Ion Ratio Lower Upper
106 100
91 244.1 117.9 353.6



#70
Styrene
Concen: 19.326 ug/l
RT: 13.07 min Scan# 1183
Delta R.T. -0.00 min
Lab File: VD063018.D
Acq: 3 Jul 2019 11:58

Tgt Ion:104 Resp: 371861
Ion Ratio Lower Upper
104 100
78 55.0 45.4 68.2
103 47.2 39.7 59.5





#71

Bromoform

Concen: 19.245 ug/l

RT: 13.24 min Scan# 1200

Delta R.T. -0.00 min

Lab File: VD063018.D

Acq: 3 Jul 2019 11:58

Instrument :

MSVOA_D

ClientSampleId :

VD0703SBS01

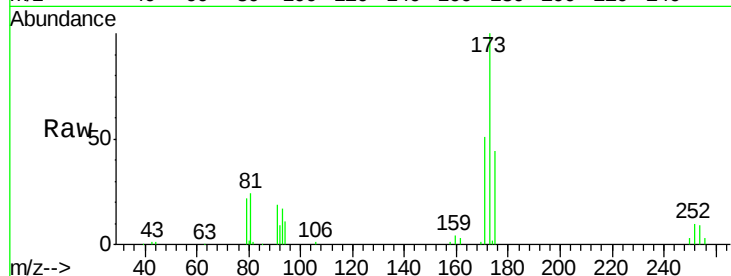
Tot Ion:173 Resp: 118165

Ion Ratio Lower Upper

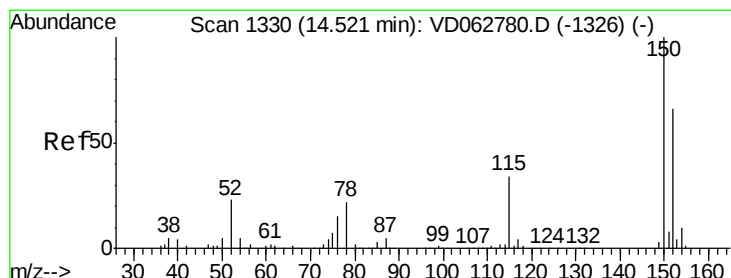
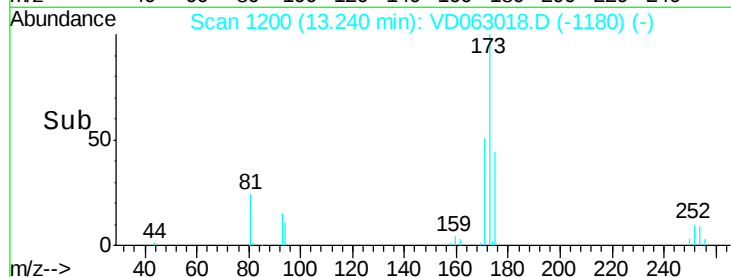
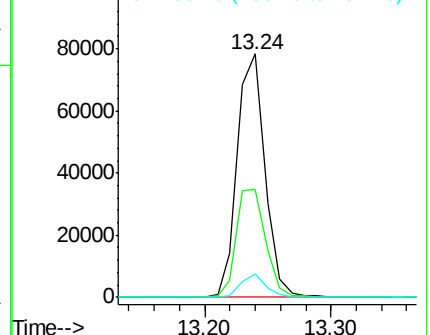
173 100

175 44.2 25.3 75.9

254 9.5 7.1 10.7



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: 14.52 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VD063018.D

Acq: 3 Jul 2019 11:58

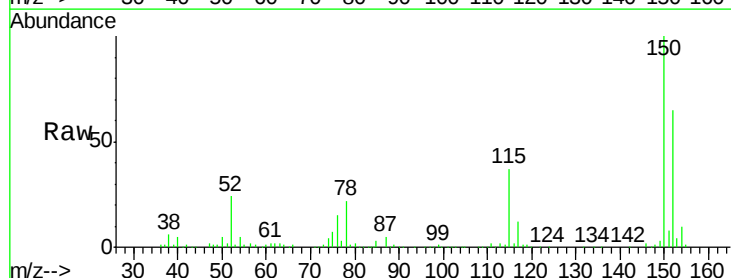
Tgt Ion:152 Resp: 572325

Ion Ratio Lower Upper

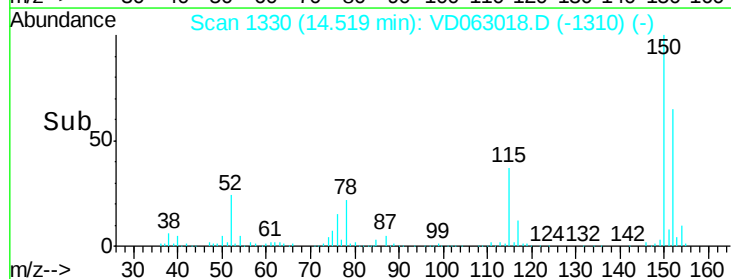
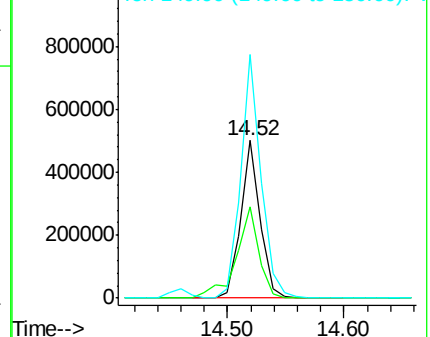
152 100

115 57.9 29.2 87.6

150 154.5 0.0 305.8



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: 19.157 ug/l

RT: 13.41 min Scan# 1217

Delta R.T. -0.00 min

Lab File: VD063018.D

Acq: 3 Jul 2019 11:58

Instrument :

MSVOA_D

ClientSampleID :

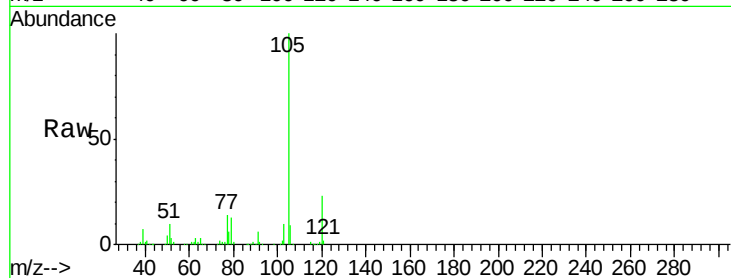
VD0703SBS01

Tot Ion:105 Resp: 702998

Ion Ratio Lower Upper

105 100

120 22.7 11.6 34.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

13.41

500000

400000

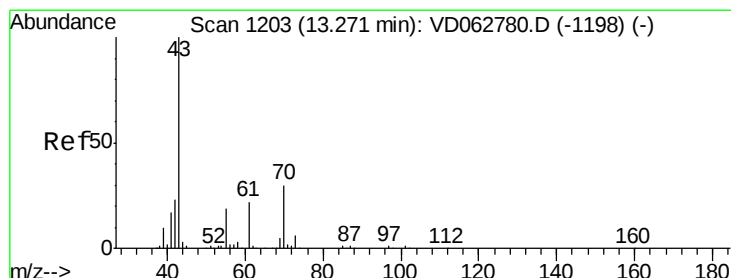
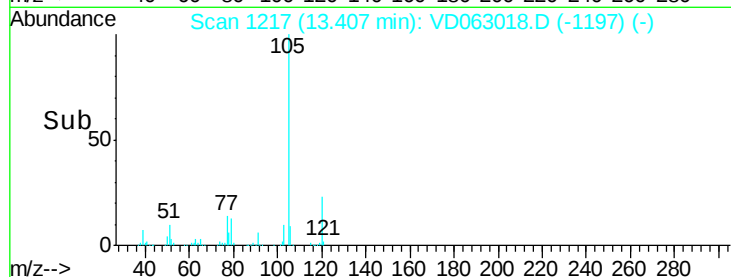
300000

200000

100000

0

Time--> 13.30 13.40 13.50



#74

N-ethyl acetate

Concen: 20.659 ug/l

RT: 13.27 min Scan# 1203

Delta R.T. -0.00 min

Lab File: VD063018.D

Acq: 3 Jul 2019 11:58

Tgt Ion: 43 Resp: 184109

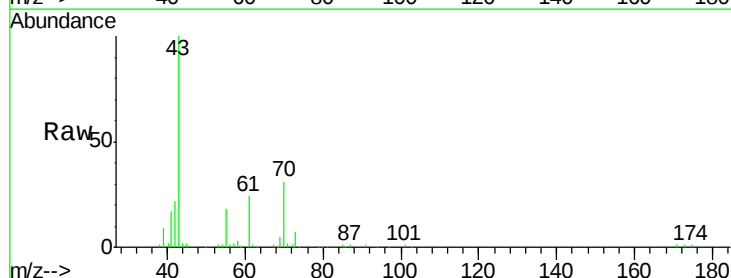
Ion Ratio Lower Upper

43 100

70 31.1 24.4 36.6

55 18.5 15.2 22.8

61 23.7 17.4 26.2



Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V

200000

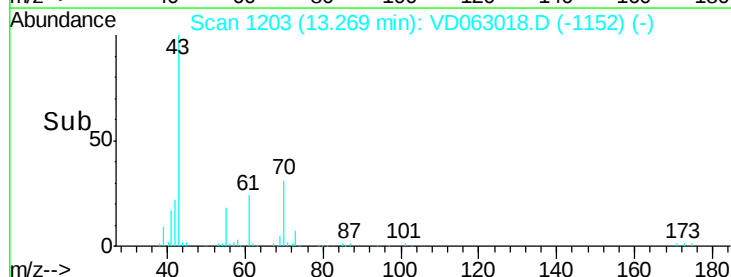
150000

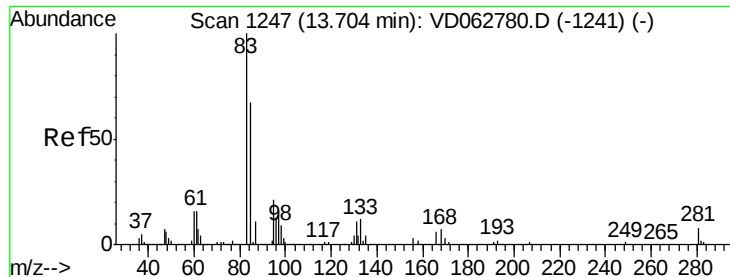
100000

50000

0

Time--> 13.20 13.30 13.40





#75

1,1,2,2-Tetrachloroethane

Concen: 20.931 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. -0.00 min

Lab File: VD063018.D

Acq: 3 Jul 2019 11:58

Instrument :

MSVOA_D

ClientSampleId :

VD0703SBS01

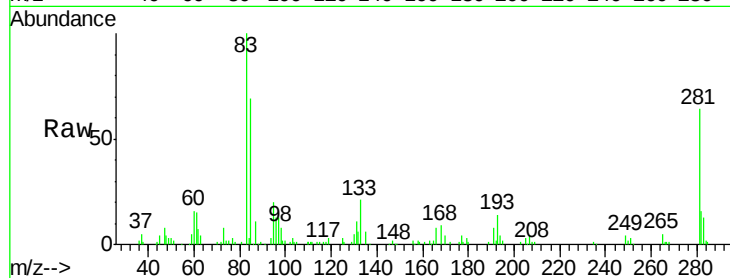
Tot Ion: 83 Resp: 125149

Ion Ratio Lower Upper

83 100

131 10.9 5.3 16.1

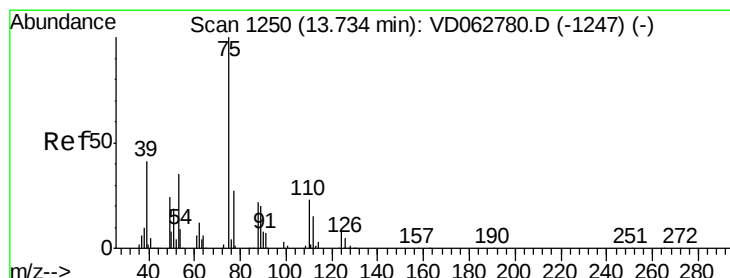
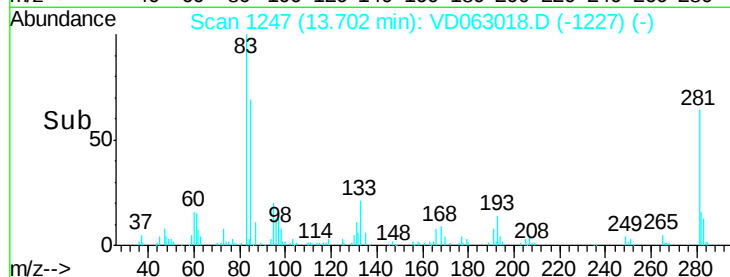
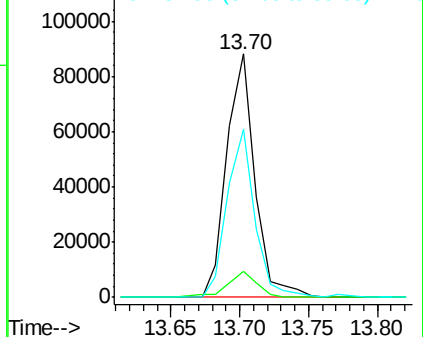
85 68.8 33.7 101.1



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 20.714 ug/l

RT: 13.73 min Scan# 1250

Delta R.T. -0.00 min

Lab File: VD063018.D

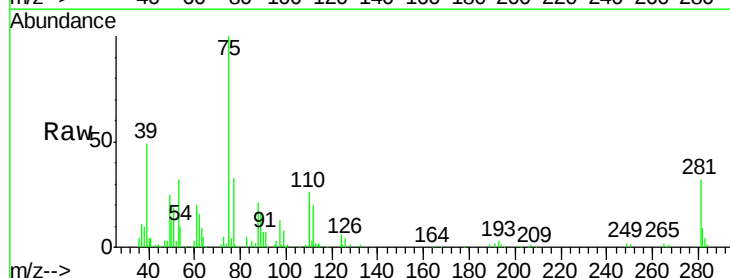
Acq: 3 Jul 2019 11:58

Tgt Ion: 75 Resp: 136857

Ion Ratio Lower Upper

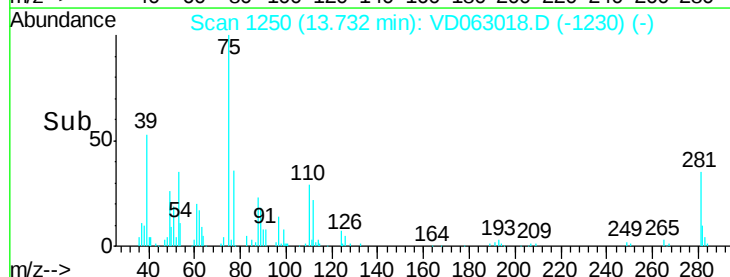
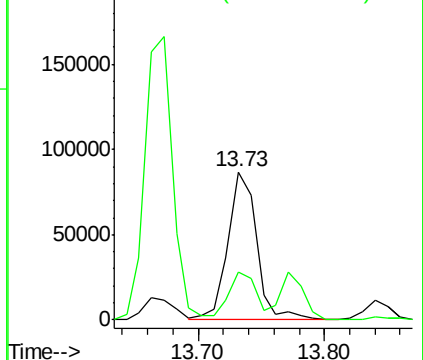
75 100

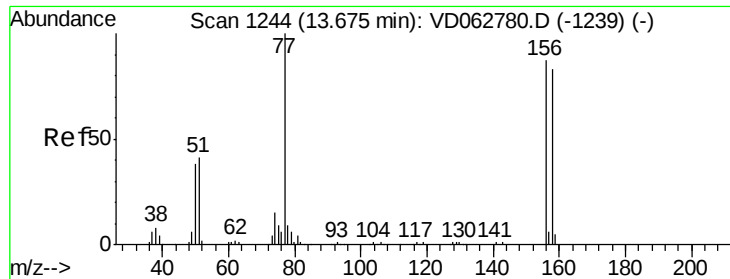
77 32.7 15.0 45.1



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

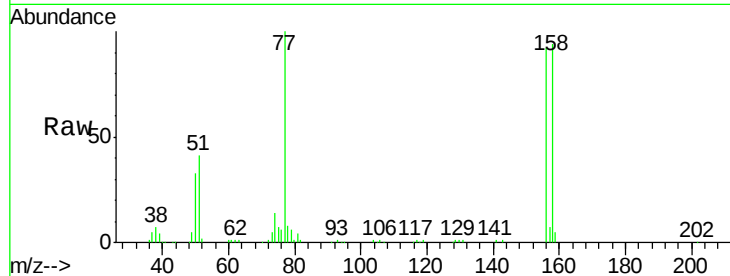




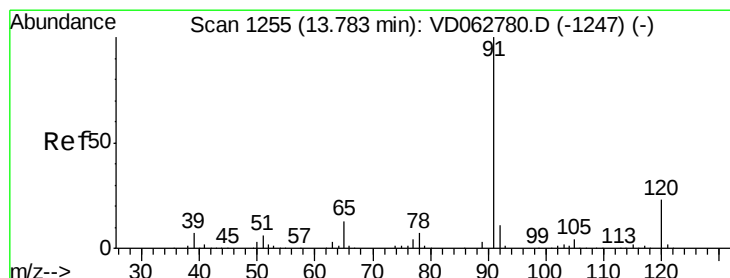
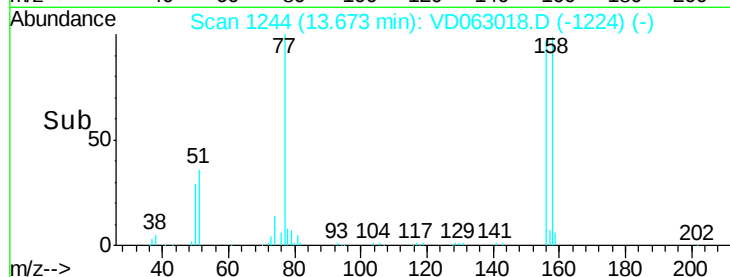
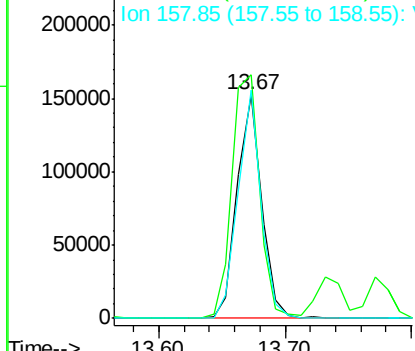
#77
Bromobenzene
Concen: 20.667 ug/l
RT: 13.67 min Scan# 1244
Delta R.T. -0.00 min
Lab File: VD063018.D
Acq: 3 Jul 2019 11:58

Instrument :
MSVOA_D
ClientSampleId :
VD0703SBS01

Tot Ion:156 Resp: 203990
Ion Ratio Lower Upper
156 100
77 108.9 57.7 173.1
158 102.1 47.7 143.1

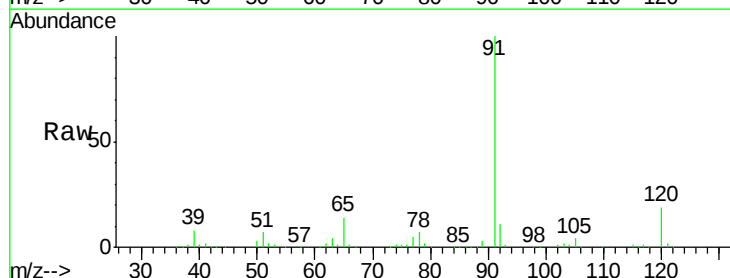


Abundance Ion 155.90 (155.60 to 156.60): V
Ion 76.95 (76.65 to 77.65): VDC
Ion 157.85 (157.55 to 158.55): V

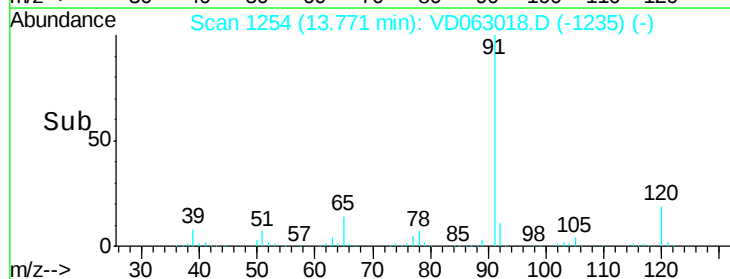
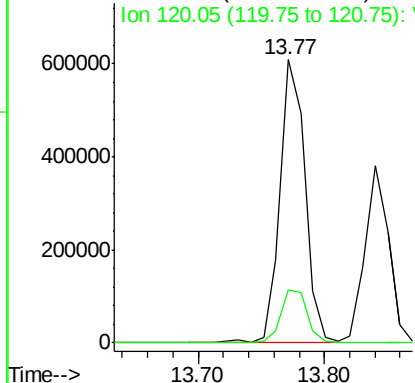


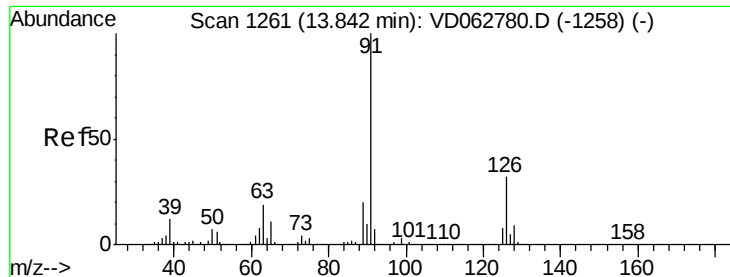
#78
n-propylbenzene
Concen: 19.837 ug/l
RT: 13.77 min Scan# 1254
Delta R.T. -0.01 min
Lab File: VD063018.D
Acq: 3 Jul 2019 11:58

Tgt Ion: 91 Resp: 847281
Ion Ratio Lower Upper
91 100
120 18.6 11.3 33.8



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 120.05 (119.75 to 120.75): V

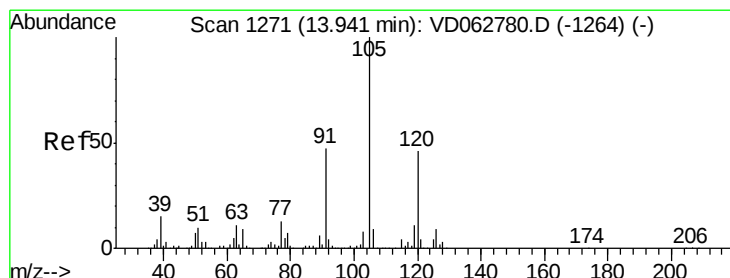
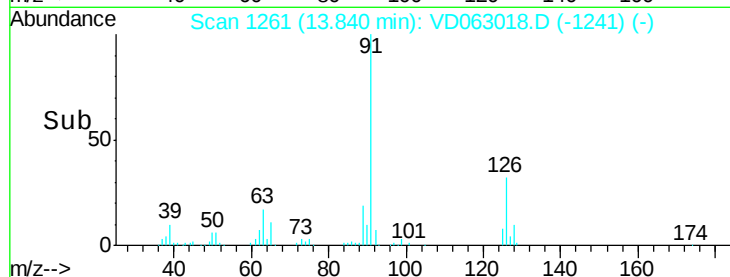
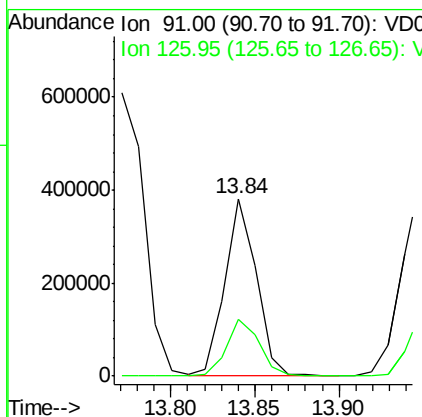
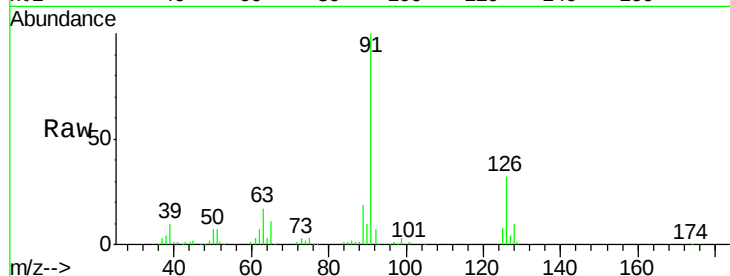




#79
 2-Chlorotoluene
 Concen: 20.364 ug/l
 RT: 13.84 min Scan# 1261
 Delta R.T. -0.00 min
 Lab File: VD063018.D
 Acq: 3 Jul 2019 11:58

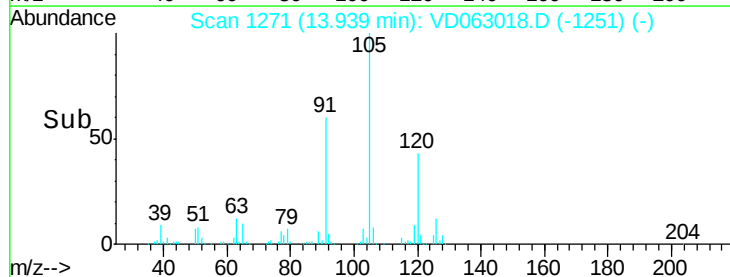
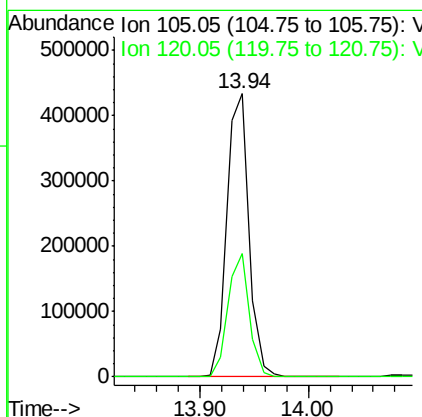
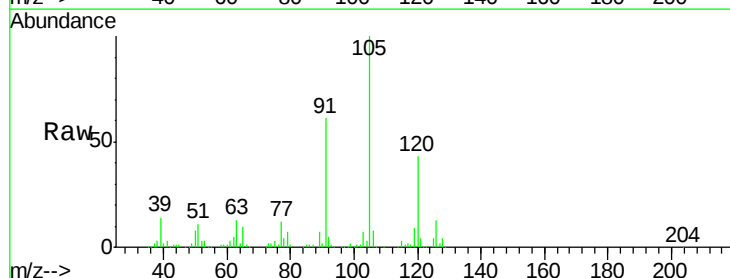
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0703SBS01

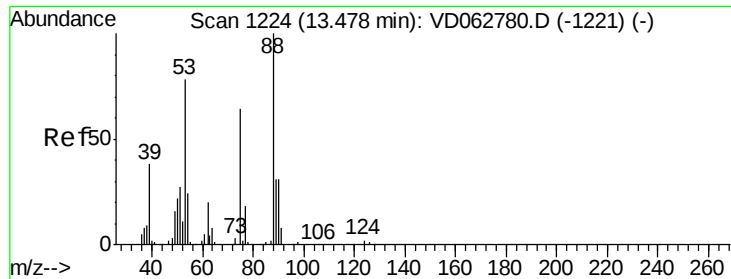
Tot Ion: 91 Resp: 497063
 Ion Ratio Lower Upper
 91 100
 126 32.2 15.7 47.1



#80
 1,3,5-Trimethylbenzene
 Concen: 19.989 ug/l
 RT: 13.94 min Scan# 1271
 Delta R.T. -0.00 min
 Lab File: VD063018.D
 Acq: 3 Jul 2019 11:58

Tgt Ion: 105 Resp: 616137
 Ion Ratio Lower Upper
 105 100
 120 43.4 23.1 69.2

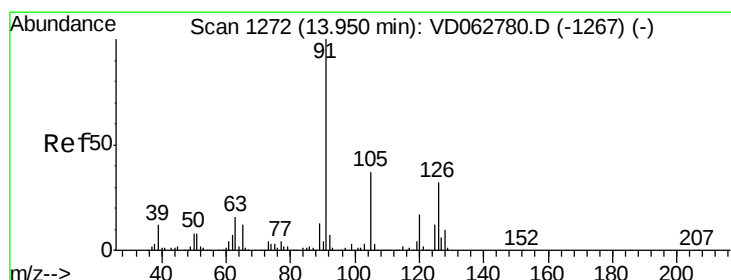
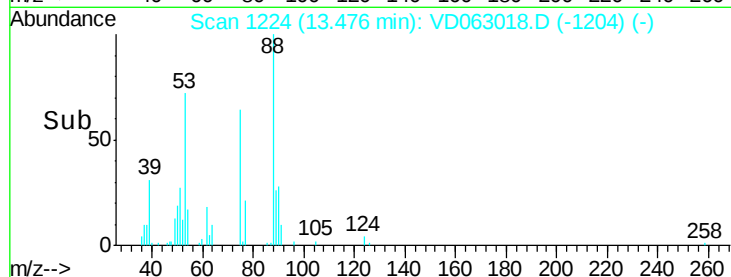
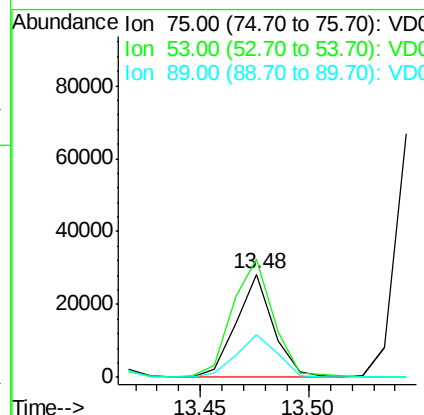
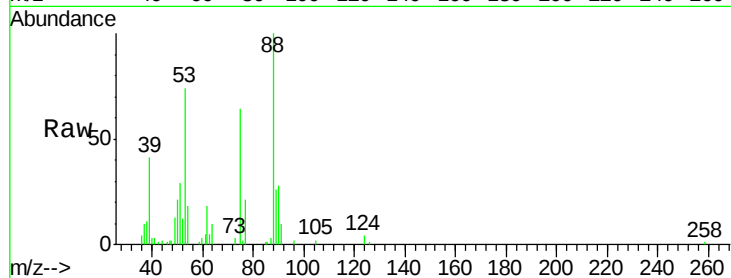




#81
trans-1,4-Dichloro-2-butene
Concen: 19.597 ug/l
RT: 13.48 min Scan# 1224
Delta R.T. -0.00 min
Lab File: VD063018.D
Acq: 3 Jul 2019 11:58

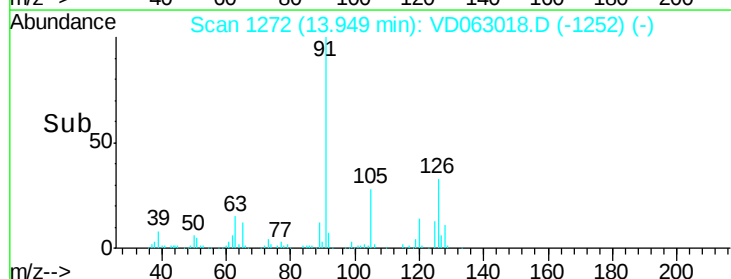
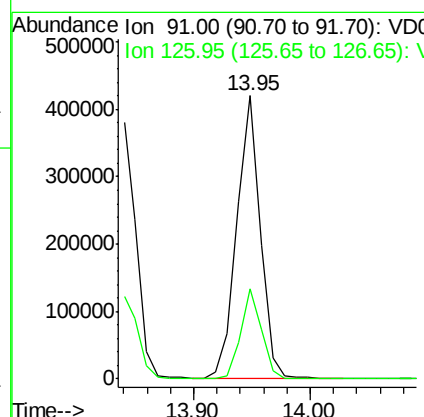
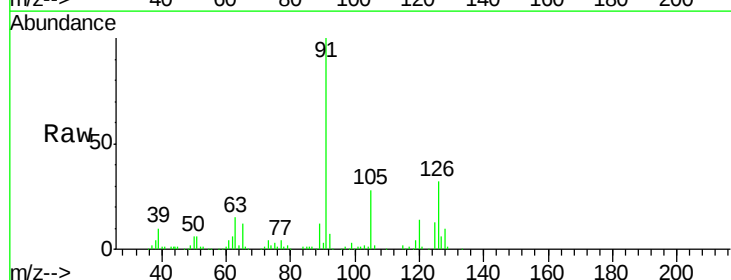
Instrument :
MSVOA_D
ClientSampleId :
VD0703SBS01

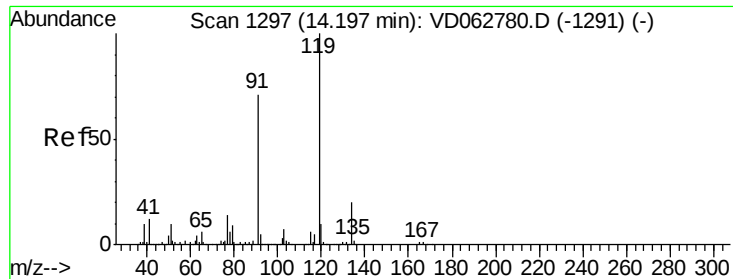
Tot Ion: 75 Resp: 33935
Ion Ratio Lower Upper
75 100
53 114.9 97.8 146.8
89 41.1 39.4 59.2



#82
4-Chlorotoluene
Concen: 20.155 ug/l
RT: 13.95 min Scan# 1272
Delta R.T. -0.00 min
Lab File: VD063018.D
Acq: 3 Jul 2019 11:58

Tgt Ion: 91 Resp: 592264
Ion Ratio Lower Upper
91 100
126 31.6 16.0 47.9

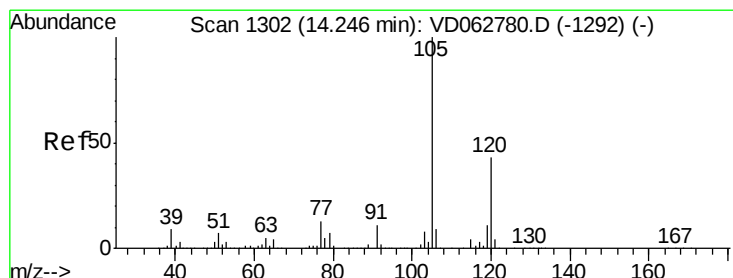
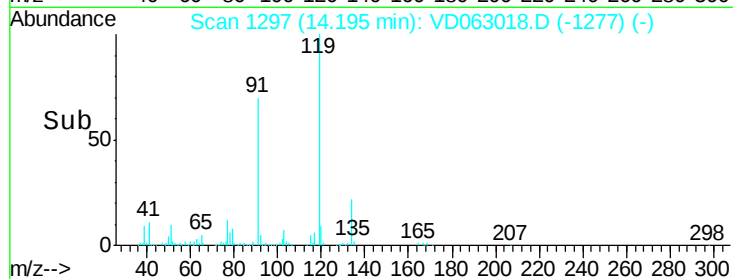
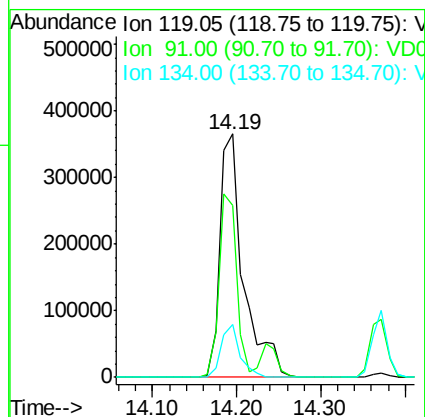
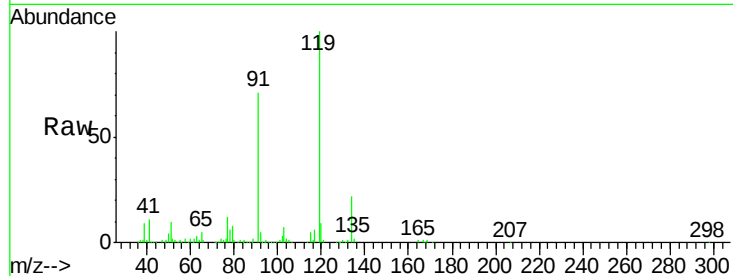




#83
 tert-Butylbenzene
 Concen: 20.642 ug/l
 RT: 14.19 min Scan# 1297
 Delta R.T. -0.00 min
 Lab File: VD063018.D
 Acq: 3 Jul 2019 11:58

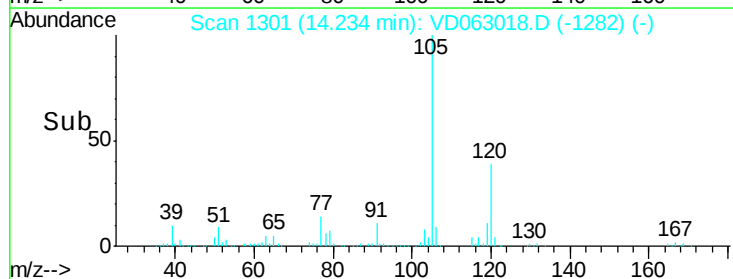
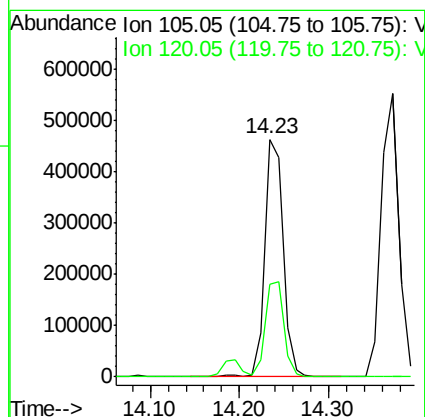
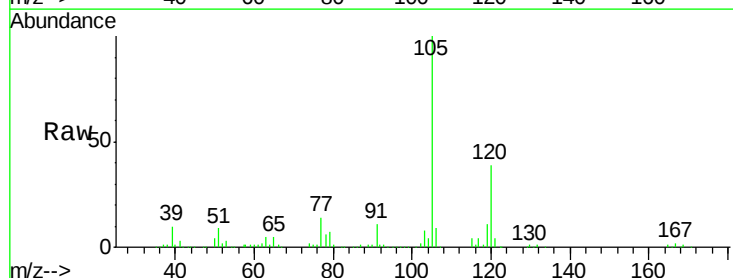
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0703SBS01

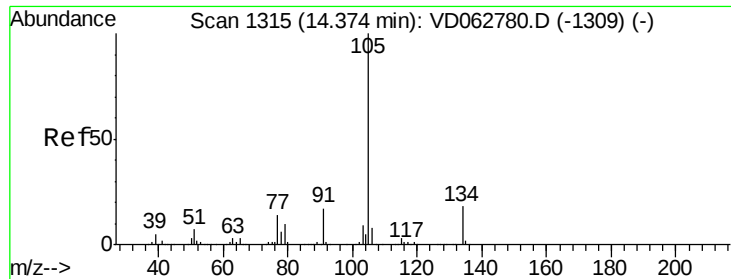
Tot Ion:119 Resp: 709201
 Ion Ratio Lower Upper
 119 100
 91 70.6 35.5 106.5
 134 21.7 10.2 30.6



#84
 1,2,4-Trimethylbenzene
 Concen: 20.671 ug/l
 RT: 14.23 min Scan# 1301
 Delta R.T. -0.01 min
 Lab File: VD063018.D
 Acq: 3 Jul 2019 11:58

Tgt Ion:105 Resp: 653051
 Ion Ratio Lower Upper
 105 100
 120 38.8 21.3 63.9

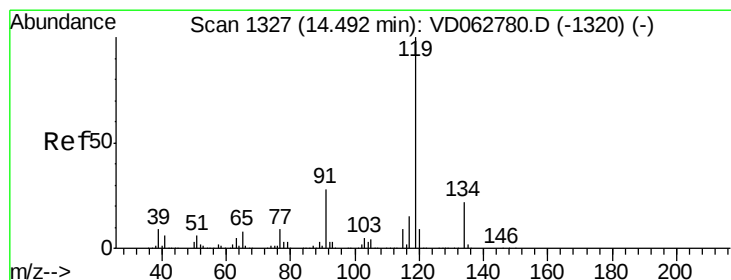
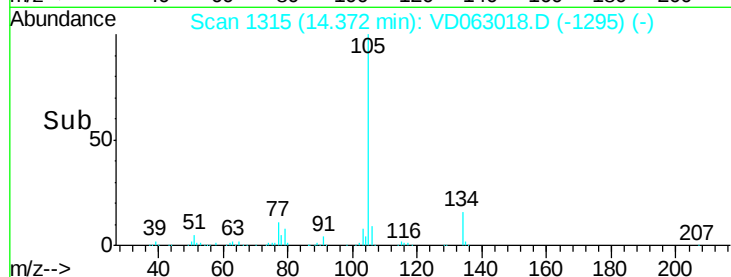
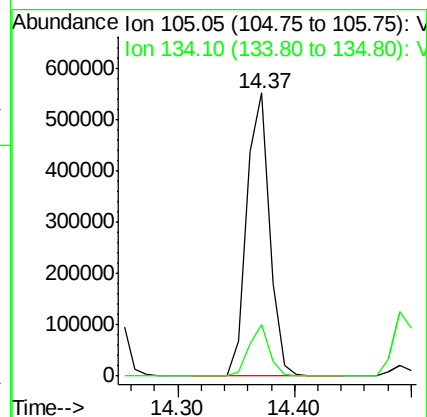
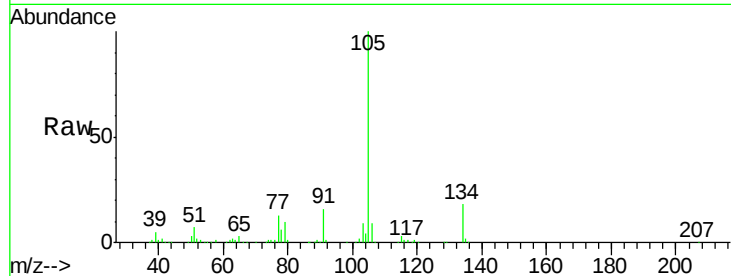




#85
 sec-Butylbenzene
 Concen: 20.112 ug/l
 RT: 14.37 min Scan# 1315
 Delta R.T. -0.00 min
 Lab File: VD063018.D
 Acq: 3 Jul 2019 11:58

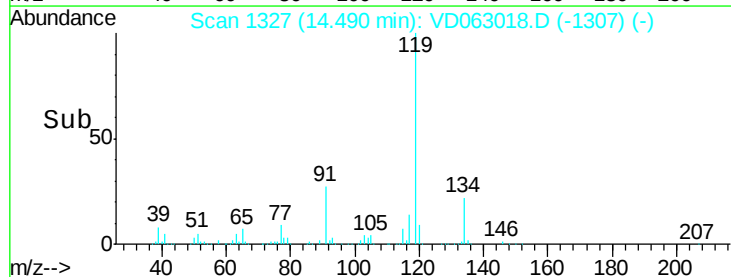
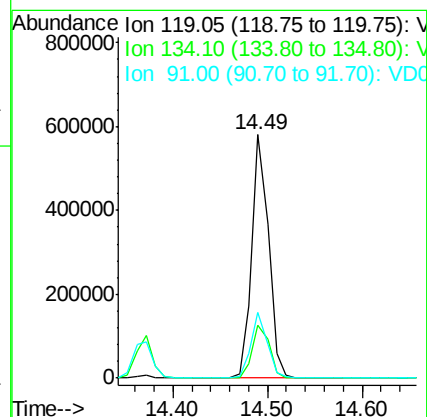
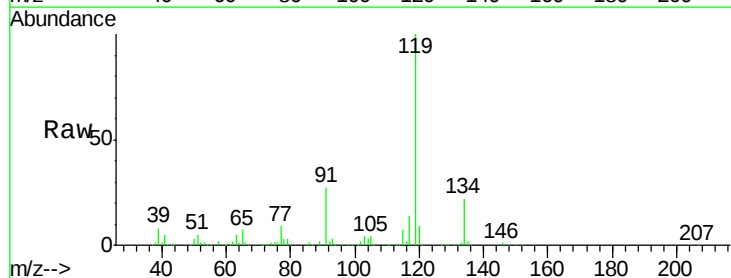
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0703SBS01

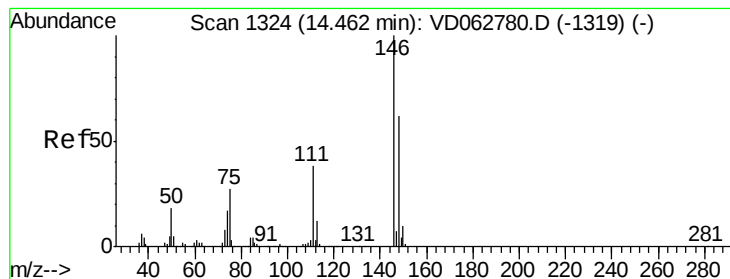
Tot Ion:105 Resp: 751023
 Ion Ratio Lower Upper
 105 100
 134 18.3 9.1 27.3



#86
 p-Isopropyltoluene
 Concen: 20.829 ug/l
 RT: 14.49 min Scan# 1327
 Delta R.T. -0.00 min
 Lab File: VD063018.D
 Acq: 3 Jul 2019 11:58

Tgt Ion:119 Resp: 711571
 Ion Ratio Lower Upper
 119 100
 134 21.8 11.1 33.1
 91 27.2 14.0 41.9





#87

1,3-Dichlorobenzene

Concen: 20.703 ug/l

RT: 14.46 min Scan# 1324

Delta R.T. -0.00 min

Lab File: VD063018.D

Acq: 3 Jul 2019 11:58

Instrument :

MSVOA_D

ClientSampleId :

VD0703SBS01

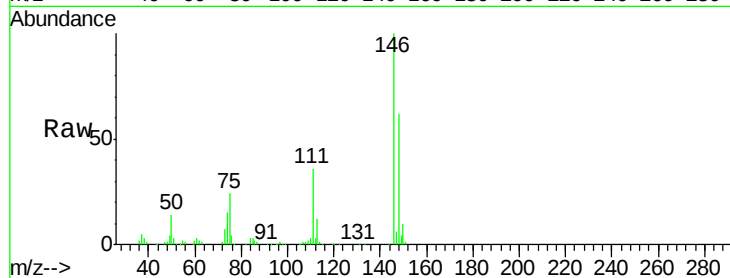
Tot Ion:146 Resp: 366310

Ion Ratio Lower Upper

146 100

111 36.2 19.0 57.0

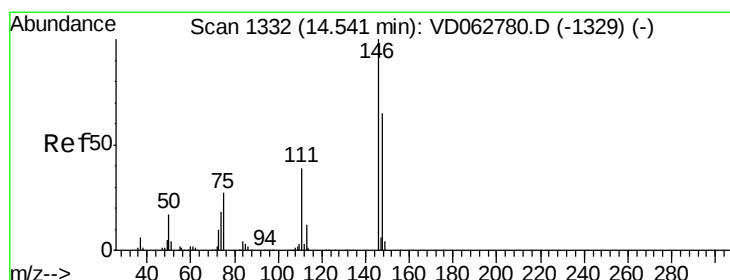
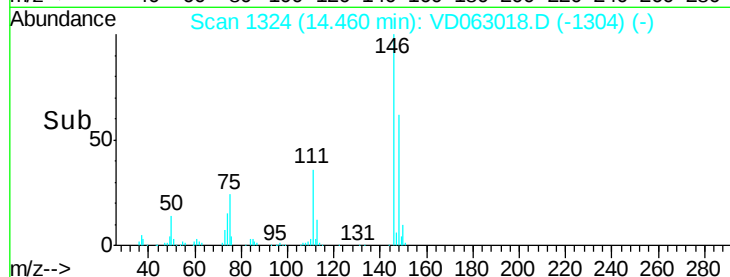
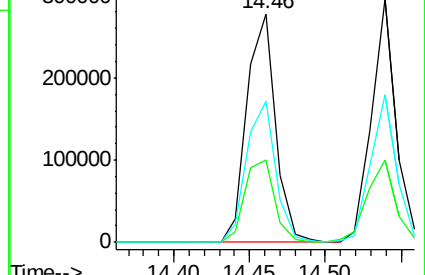
148 61.8 30.8 92.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 18.682 ug/l

RT: 14.54 min Scan# 1332

Delta R.T. -0.00 min

Lab File: VD063018.D

Acq: 3 Jul 2019 11:58

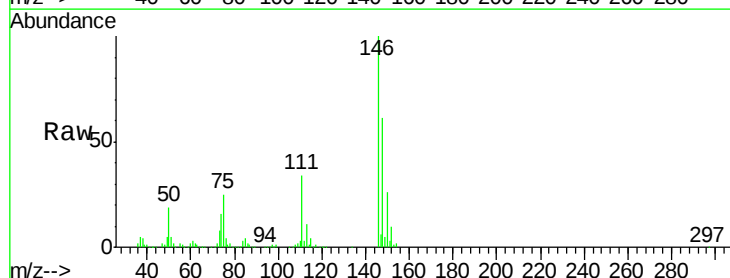
Tgt Ion:146 Resp: 332000

Ion Ratio Lower Upper

146 100

111 33.7 19.7 59.1

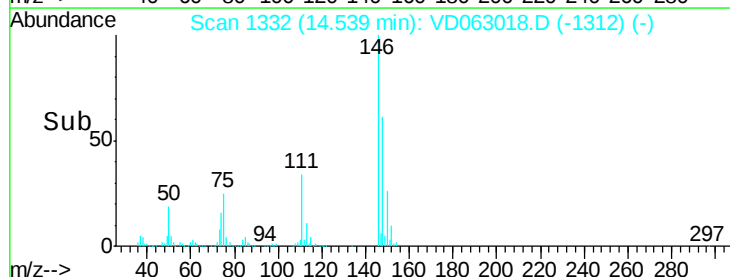
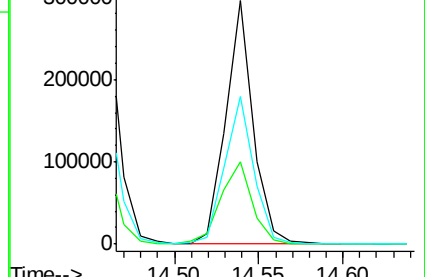
148 60.8 32.8 98.3

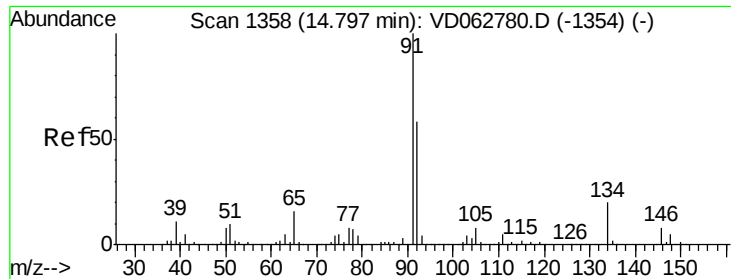


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#89

n-Butylbenzene

Concen: 19.299 ug/l

RT: 14.80 min Scan# 1358

Delta R.T. -0.00 min

Lab File: VD063018.D

Acq: 3 Jul 2019 11:58

Instrument :

MSVOA_D

ClientSampleId :

VD0703SBS01

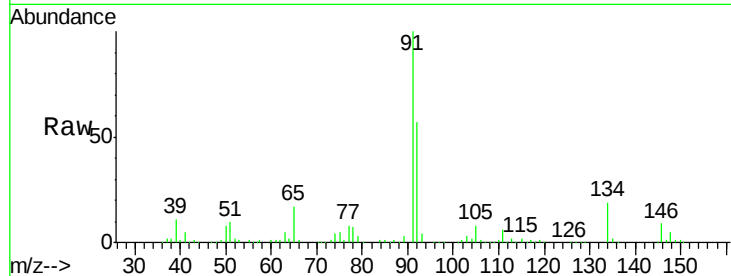
Tot Ion: 91 Resp: 617070

Ion Ratio Lower Upper

91 100

92 57.2 28.9 86.7

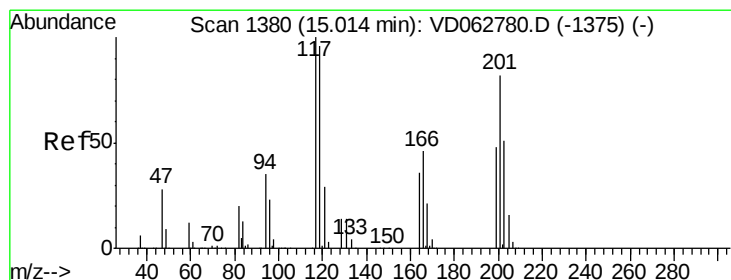
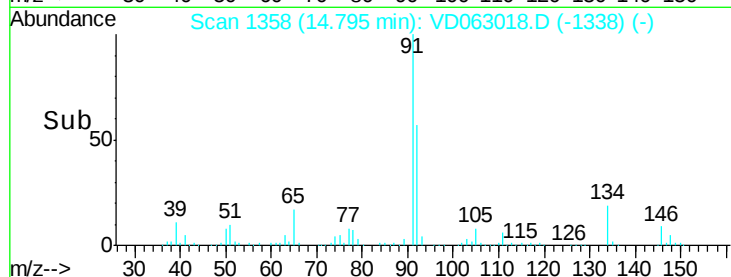
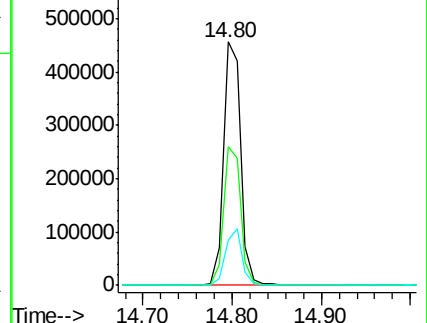
134 18.8 10.1 30.3



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.10 (133.80 to 134.80): V



#90

Hexachloroethane

Concen: 19.600 ug/l

RT: 15.01 min Scan# 1380

Delta R.T. -0.00 min

Lab File: VD063018.D

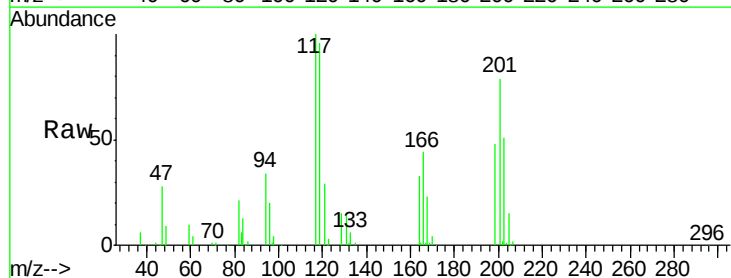
Acq: 3 Jul 2019 11:58

Tgt Ion: 117 Resp: 180027

Ion Ratio Lower Upper

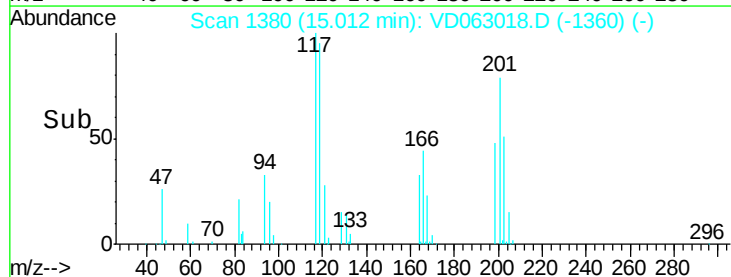
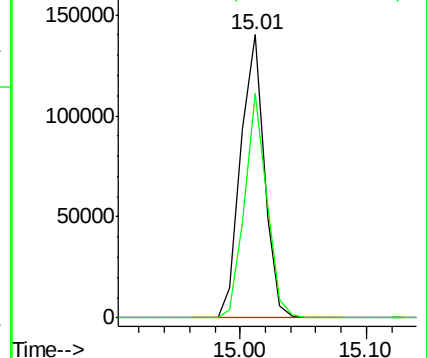
117 100

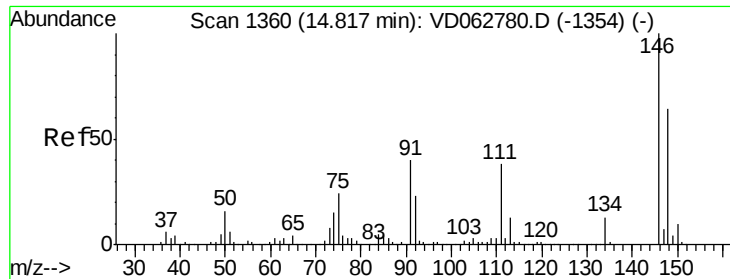
201 79.4 40.8 122.2



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V

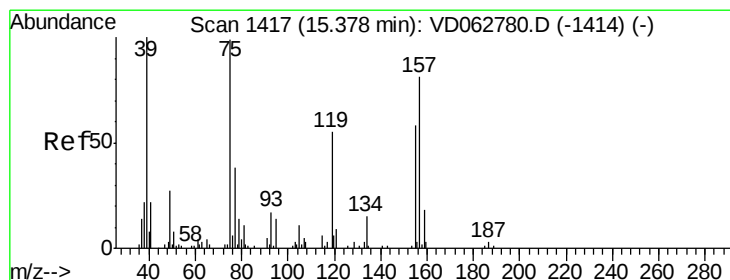
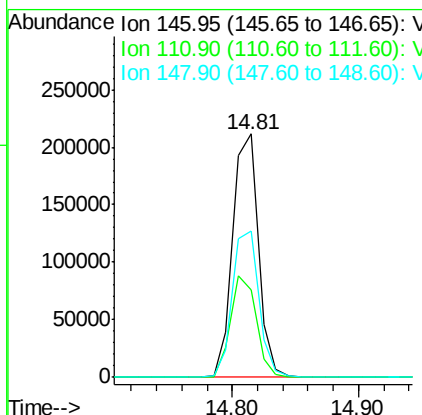
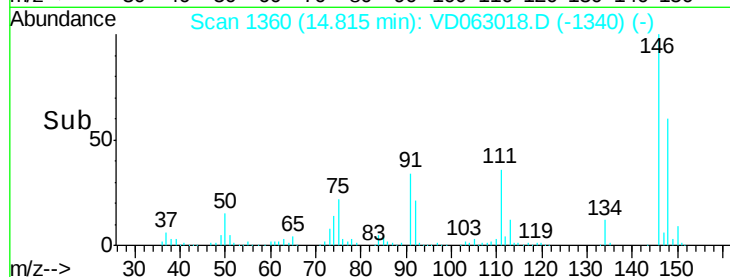
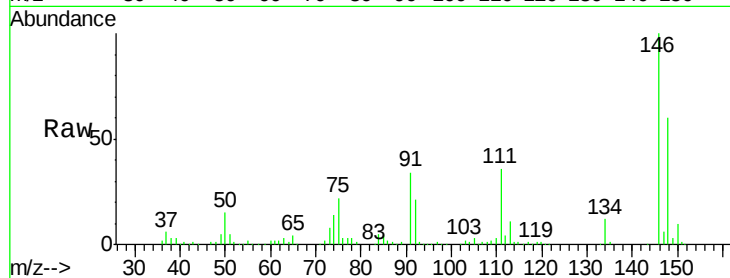




#91
 1,2-Dichlorobenzene
 Concen: 19.558 ug/l
 RT: 14.81 min Scan# 1360
 Delta R.T. -0.00 min
 Lab File: VD063018.D
 Acq: 3 Jul 2019 11:58

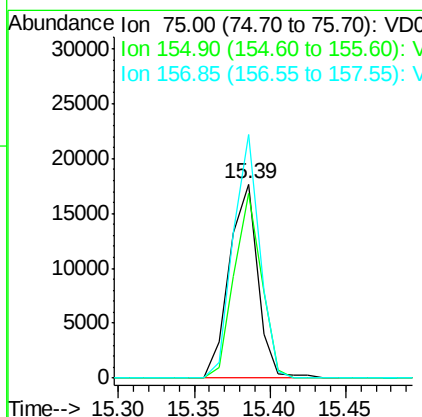
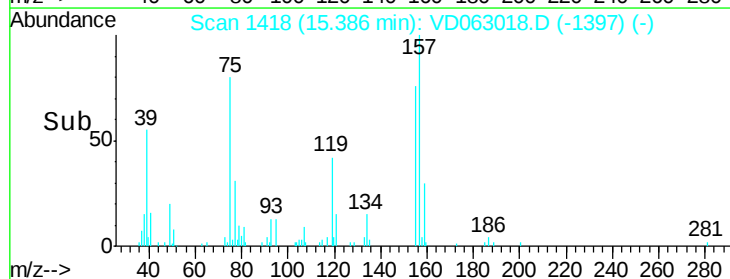
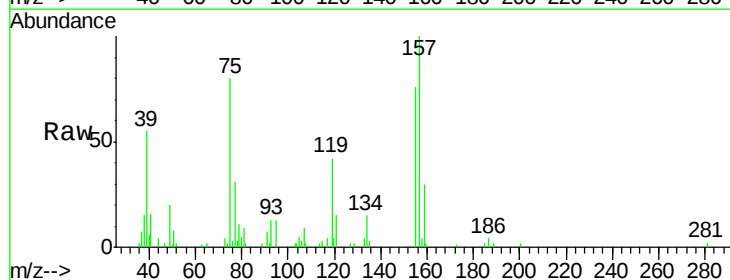
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0703SBS01

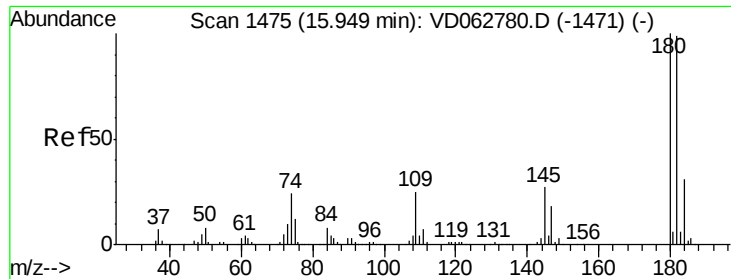
Tot Ion:146 Resp: 296060
 Ion Ratio Lower Upper
 146 100
 111 35.8 19.1 57.1
 148 60.3 32.3 96.8



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.868 ug/l
 RT: 15.39 min Scan# 1418
 Delta R.T. 0.01 min
 Lab File: VD063018.D
 Acq: 3 Jul 2019 11:58

Tgt Ion: 75 Resp: 23186
 Ion Ratio Lower Upper
 75 100
 155 95.2 29.3 87.8#
 157 125.3 41.3 123.7#

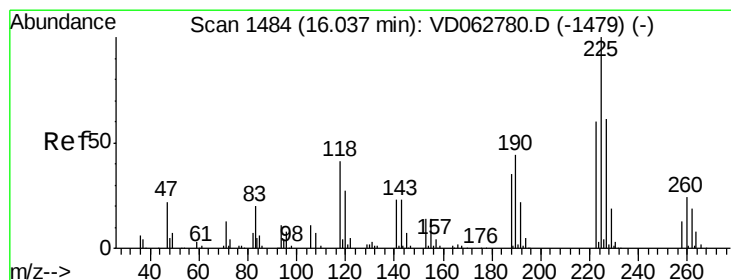
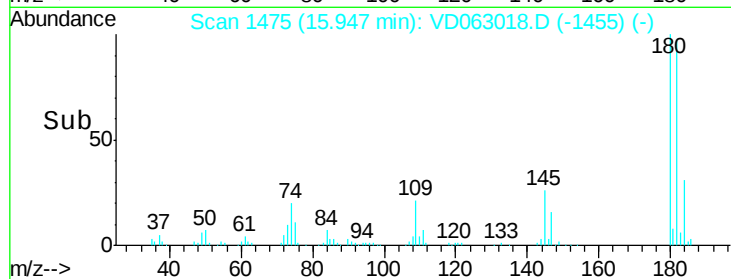
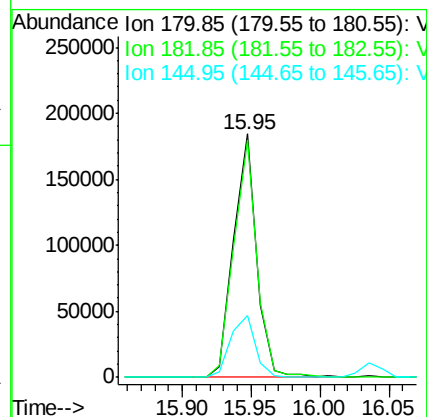
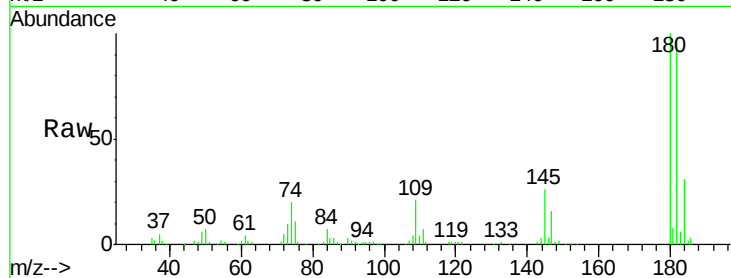




#93
 1,2,4-Trichlorobenzene
 Concen: 18.086 ug/l
 RT: 15.95 min Scan# 1475
 Delta R.T. -0.00 min
 Lab File: VD063018.D
 Acq: 3 Jul 2019 11:58

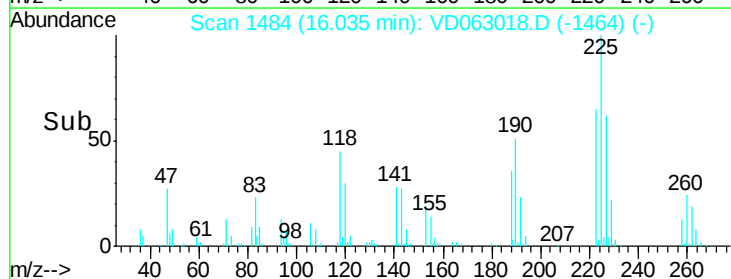
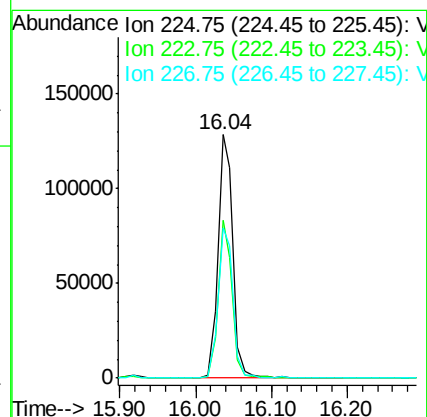
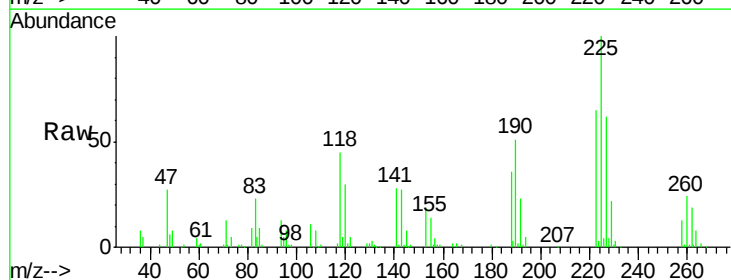
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0703SBS01

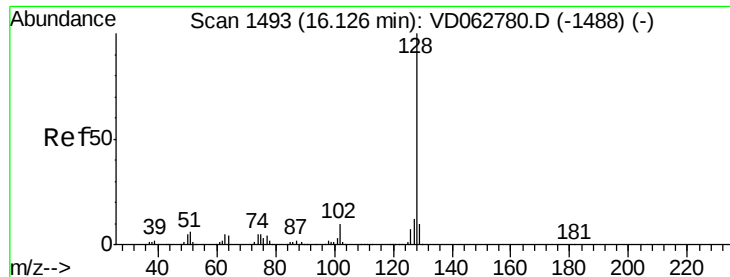
Tot Ion:180 Resp: 213875
 Ion Ratio Lower Upper
 180 100
 182 97.2 49.5 148.5
 145 25.6 13.7 41.0



#94
 Hexachlorobutadiene
 Concen: 19.802 ug/l
 RT: 16.04 min Scan# 1484
 Delta R.T. -0.00 min
 Lab File: VD063018.D
 Acq: 3 Jul 2019 11:58

Tgt Ion:225 Resp: 178891
 Ion Ratio Lower Upper
 225 100
 223 64.8 29.8 89.5
 227 61.8 30.6 91.6

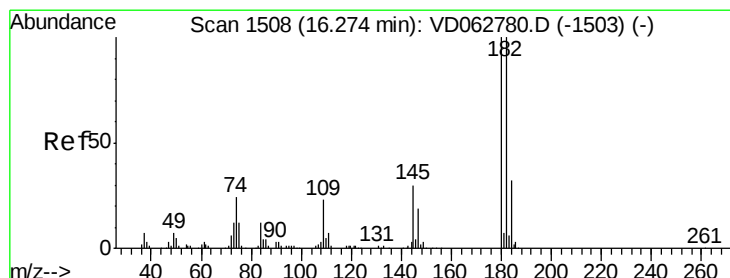
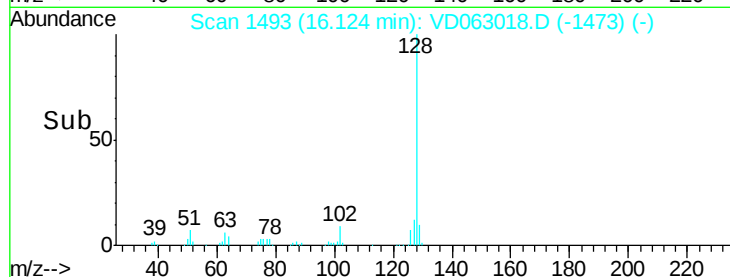
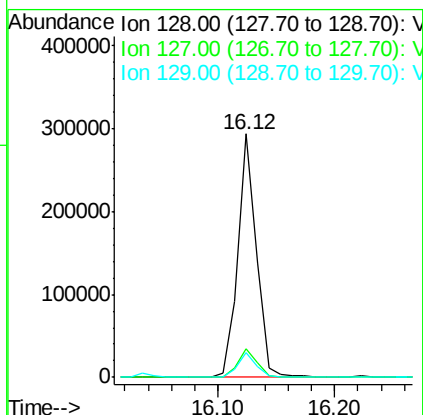
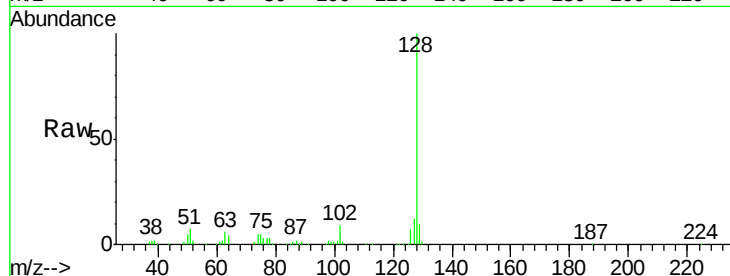




#95
Naphthalene
Concen: 19.631 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. -0.00 min
Lab File: VD063018.D
Acq: 3 Jul 2019 11:58

Instrument :
MSVOA_D
ClientSampleId :
VD0703SBS01

Tot Ion:128 Resp: 325372
Ion Ratio Lower Upper
128 100
127 11.8 9.7 14.5
129 10.0 8.3 12.5



#96
1,2,3-Trichlorobenzene
Concen: 19.957 ug/l
RT: 16.27 min Scan# 1508
Delta R.T. -0.00 min
Lab File: VD063018.D
Acq: 3 Jul 2019 11:58

Tgt Ion:180 Resp: 181323
Ion Ratio Lower Upper
180 100
182 95.5 49.9 149.6
145 28.6 15.2 45.5

