

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032219\
 Data File : VD061254.D
 Acq On : 22 Mar 2019 12:09
 Operator : VA/AP
 Sample : VD0322SBS01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0322SBS01

Quant Time: Mar 22 23:25:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 02:35:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.11	168	660429	50.00	ug/l	0.06
34) 1,4-Difluorobenzene	8.27	114	1086029	50.00	ug/l	0.05
63) Chlorobenzene-d5	12.40	117	884500	50.00	ug/l	0.04
72) 1,4-Dichlorobenzene-d4	14.55	152	334467	50.00	ug/l	0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.51	65	252105	45.86	ug/l	0.06
Spiked Amount			Recovery	=	91.72%	
35) Dibromofluoromethane	6.99	113	409508	50.81	ug/l	0.06
Spiked Amount			Recovery	=	101.62%	
50) Toluene-d8	10.45	98	932042	46.05	ug/l	0.05
Spiked Amount			Recovery	=	92.10%	
62) 4-Bromofluorobenzene	13.58	95	357304	45.50	ug/l	0.03
Spiked Amount			Recovery	=	91.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.60	85	131830	20.151	ug/l	95
3) Chloromethane	1.78	50	108353	19.882	ug/l	100
4) Vinyl Chloride	1.88	62	102139	20.283	ug/l	98
5) Bromomethane	2.17	94	17127	16.534	ug/l	84
6) Chloroethane	2.28	64	30438	20.194	ug/l	99
7) Trichlorofluoromethane	2.56	101	147079	20.332	ug/l	100
8) Diethyl Ether	2.91	74	55983	23.459	ug/l	86
9) 1,1,2-Trichlorotrifluoroet	3.19	101	167143	20.667	ug/l	99
10) Methyl Iodide	3.36	142	180036	18.150	ug/l	98
11) Tert butyl alcohol	4.12	59	35294	100.849	ug/l	97
12) 1,1-Dichloroethene	3.17	96	133425	20.126	ug/l	96
13) Acrolein	3.08	56	24335	48.057	ug/l	89
14) Allyl chloride	3.67	41	207800	19.591	ug/l	95
15) Acrylonitrile	4.25	53	127702	103.243	ug/l	98
16) Acetone	3.26	43	158235	100.658	ug/l	98
17) Carbon Disulfide	3.42	76	373853	16.718	ug/l	100
18) Methyl Acetate	3.69	43	57087	18.453	ug/l #	88
19) Methyl tert-butyl Ether	4.29	73	250713	21.580	ug/l	96
20) Methylene Chloride	3.87	84	180869	22.686	ug/l	96
21) trans-1,2-Dichloroethene	4.27	96	149870	20.887	ug/l	91
22) Diisopropyl ether	5.19	45	439037	19.939	ug/l	98
23) Vinyl Acetate	5.13	43	1177848	104.204	ug/l	99
24) 1,1-Dichloroethane	5.05	63	238547	19.773	ug/l	98
25) 2-Butanone	6.13	43	194758	109.182	ug/l	97
26) 2,2-Dichloropropane	6.08	77	211437	22.450	ug/l	99
27) cis-1,2-Dichloroethene	6.10	96	169032	22.203	ug/l	91
28) Bromochloromethane	6.50	49	87340	17.101	ug/l	86
29) Tetrahydrofuran	6.52	42	91255	94.214	ug/l	97
30) Chloroform	6.72	83	261014	20.875	ug/l	96
31) Cyclohexane	7.02	56	198673	20.423	ug/l	94
32) 1,1,1-Trichloroethane	6.93	97	227299	21.027	ug/l	100
36) 1,1-Dichloropropene	7.20	75	199650	21.327	ug/l	97
37) Ethyl Acetate	6.24	43	85019	19.353	ug/l	99
38) Carbon Tetrachloride	7.18	117	223416	21.666	ug/l	93

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.92	83	196483	20.241	ug/l	98
40) Benzene	7.51	78	487886	20.857	ug/l	100
41) Methacrylonitrile	6.50	41	101928	20.172	ug/l #	92
42) 1,2-Dichloroethane	7.64	62	150551	22.178	ug/l	99
43) Isopropyl Acetate	9.29	43	121243	19.927	ug/l #	91
44) Trichloroethene	8.59	130	166729	20.660	ug/l	98
45) 1,2-Dichloropropane	9.00	63	122155	19.877	ug/l	98
46) Dibromomethane	9.11	93	79356	20.357	ug/l	93
47) Bromodichloromethane	9.43	83	190952	21.707	ug/l	97
48) Methyl methacrylate	9.17	41	72099	21.046	ug/l	96
49) 1,4-Dioxane	9.13	88	14852	428.745	ug/l	97
51) 4-Methyl-2-Pentanone	10.35	43	365072	97.940	ug/l	98
52) Toluene	10.56	92	299612	20.598	ug/l	95
53) t-1,3-Dichloropropene	10.96	75	173004	21.508	ug/l	100
54) cis-1,3-Dichloropropene	10.09	75	211077	21.840	ug/l	97
55) 1,1,2-Trichloroethane	11.24	97	98703	20.376	ug/l	96
56) Ethyl methacrylate	11.08	69	106090	20.923	ug/l	99
57) 1,3-Dichloropropane	11.45	76	157149	21.709	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.90	63	264016	98.371	ug/l	99
59) 2-Hexanone	11.58	43	294033	107.837	ug/l	100
60) Dibromochloromethane	11.72	129	156090	21.895	ug/l	99
61) 1,2-Dibromoethane	11.84	107	113515	20.144	ug/l	95
64) Tetrachloroethene	11.31	164	133042	22.282	ug/l	97
65) Chlorobenzene	12.43	112	377623	21.778	ug/l	99
66) 1,1,1,2-Tetrachloroethane	12.55	131	145045	23.467	ug/l	97
67) Ethyl Benzene	12.56	91	610080	23.633	ug/l	99
68) m/p-Xylenes	12.70	106	462928	45.689	ug/l	98
69) o-Xylene	13.08	106	232953	23.390	ug/l	98
70) Styrene	13.10	104	371355	22.834	ug/l	98
71) Bromoform	13.27	173	90056	22.586	ug/l	97
73) Isopropylbenzene	13.43	105	571762	23.720	ug/l	98
74) N-amyl acetate	13.29	43	157584	23.218	ug/l	96
75) 1,1,2,2-Tetrachloroethane	13.72	83	110338	23.462	ug/l	98
76) 1,2,3-Trichloropropane	13.76	75	115509	24.005	ug/l	98
77) Bromobenzene	13.70	156	160239	26.042	ug/l	94
78) n-propylbenzene	13.80	91	696600	24.686	ug/l	98
79) 2-Chlorotoluene	13.87	91	375254	24.154	ug/l	98
80) 1,3,5-Trimethylbenzene	14.26	105	456918	24.969	ug/l	100
81) trans-1,4-Dichloro-2-buten	13.51	75	31127	21.941	ug/l	97
82) 4-Chlorotoluene	13.98	91	429964	23.411	ug/l	96
83) tert-Butylbenzene	14.21	119	540310	26.980	ug/l	98
84) 1,2,4-Trimethylbenzene	14.26	105	456918	24.969	ug/l	100
85) sec-Butylbenzene	14.39	105	612769	25.064	ug/l	98
86) p-Isopropyltoluene	14.52	119	473080	23.673	ug/l	96
87) 1,3-Dichlorobenzene	14.48	146	288730	26.278	ug/l	96
88) 1,4-Dichlorobenzene	14.56	146	271768	25.171	ug/l	97
89) n-Butylbenzene	14.82	91	455624	23.742	ug/l	97
90) Hexachloroethane	15.03	117	138188	24.489	ug/l	84
91) 1,2-Dichlorobenzene	14.83	146	240972	26.308	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	15.41	75	14057	24.804	ug/l	80

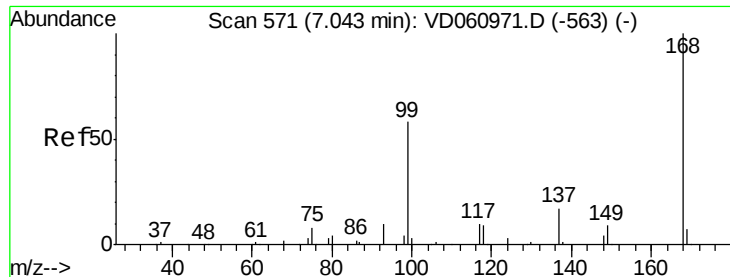
Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032219\
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.97	180	105386	24.802	ug/l	98
94) Hexachlorobutadiene	16.06	225	92187	28.683	ug/l	95
95) Naphthalene	16.14	128	164547	25.483	ug/l	99
96) 1,2,3-Trichlorobenzene	16.29	180	55363	26.380	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.11 min Scan# 577

Delta R.T. 0.06 min

Lab File: VD061254.D

Acq: 22 Mar 2019 12:09

Instrument :

MSVOA_D

ClientSampleId :

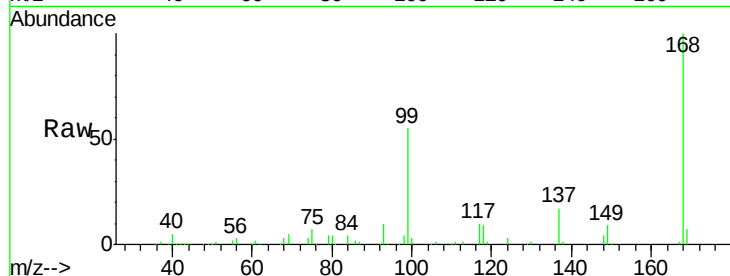
VD0322SBS01

Tot Ion:168 Resp: 660429

Ion Ratio Lower Upper

168 100

99 54.6 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.11

250000

200000

150000

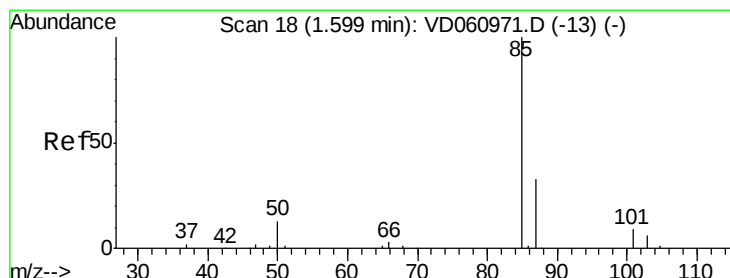
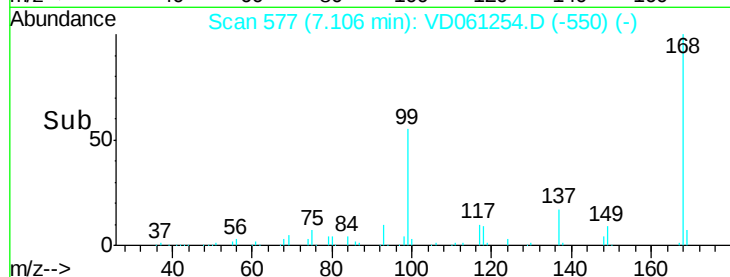
100000

50000

0

Time-->

7.00 7.10 7.20



#2

Dichlorodifluoromethane

Concen: 20.151 ug/l

RT: 1.60 min Scan# 18

Delta R.T. 0.00 min

Lab File: VD061254.D

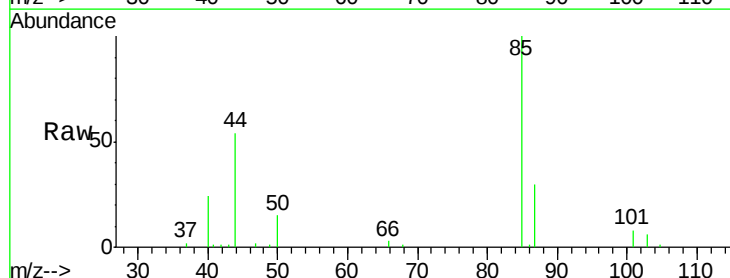
Acq: 22 Mar 2019 12:09

Tgt Ion: 85 Resp: 131830

Ion Ratio Lower Upper

85 100

87 30.3 16.4 49.4



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.60

60000

50000

40000

30000

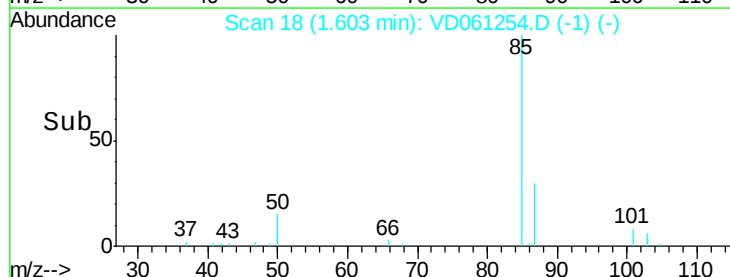
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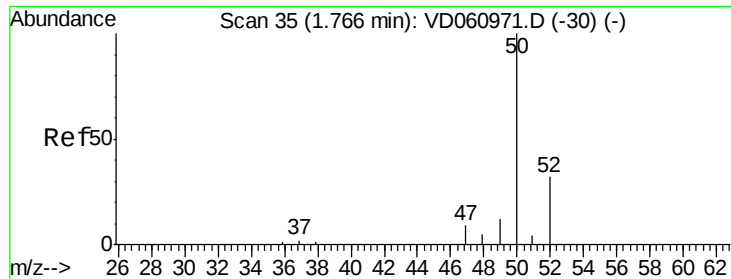
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0

Time-->

1.50 1.60 1.70 1.80





#3

Chloromethane

Concen: 19.882 ug/l

RT: 1.78 min Scan# 36

Delta R.T. 0.01 min

Lab File: VD061254.D

Acq: 22 Mar 2019 12:09

Instrument :

MSVOA_D

ClientSampleId :

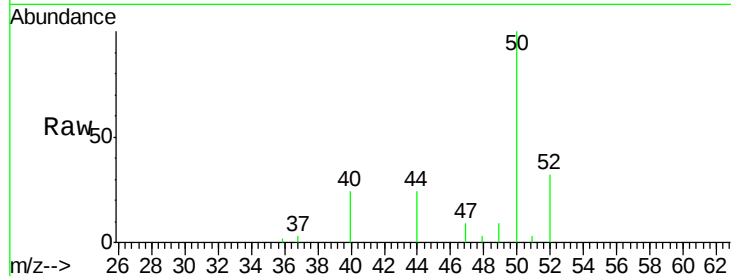
VD0322SBS01

Tot Ion: 50 Resp: 108353

Ion Ratio Lower Upper

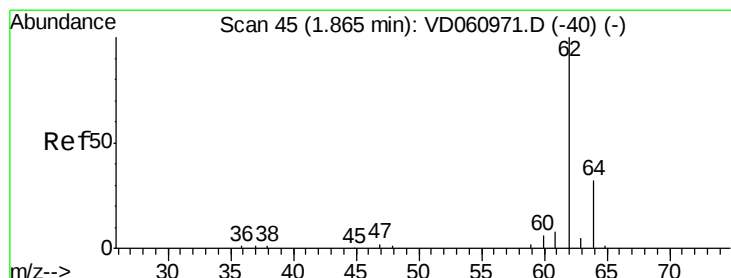
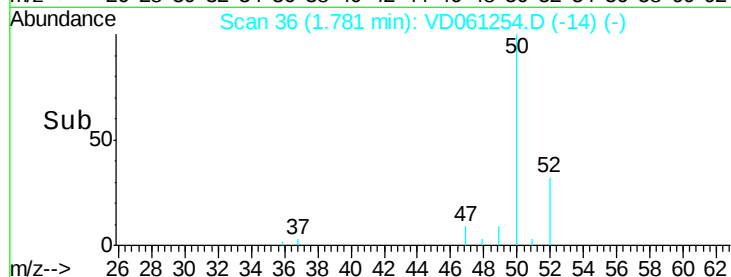
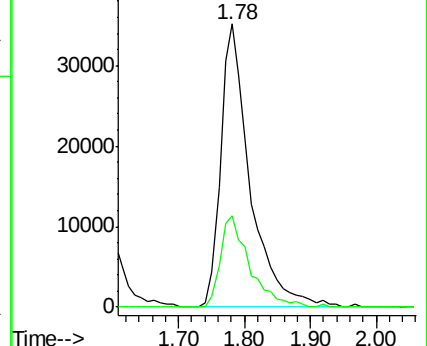
50 100

52 32.5 25.8 38.8



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 20.283 ug/l

RT: 1.88 min Scan# 46

Delta R.T. 0.01 min

Lab File: VD061254.D

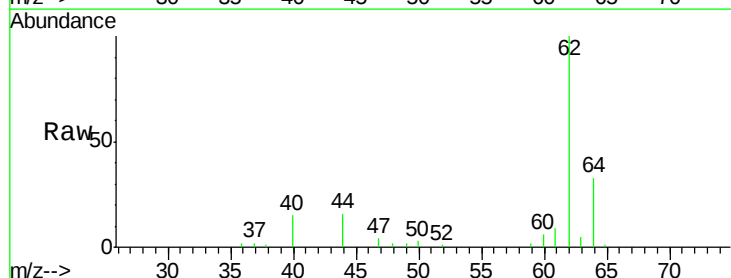
Acq: 22 Mar 2019 12:09

Tgt Ion: 62 Resp: 102139

Ion Ratio Lower Upper

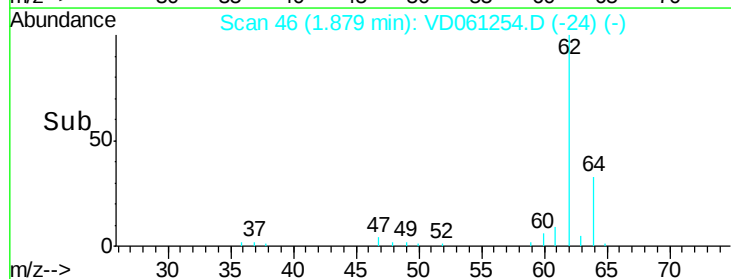
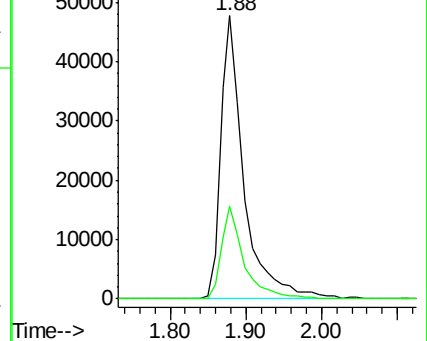
62 100

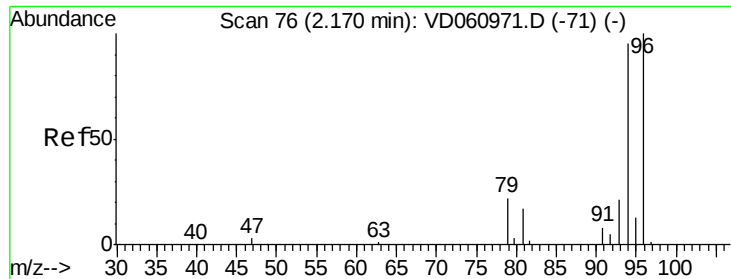
64 32.7 25.2 37.8



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 16.534 ug/l

RT: 2.17 min Scan# 76

Delta R.T. 0.01 min

Lab File: VD061254.D

Acq: 22 Mar 2019 12:09

Instrument :

MSVOA_D

ClientSampleId :

VD0322SBS01

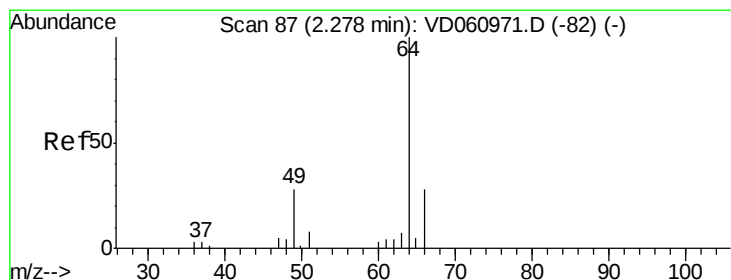
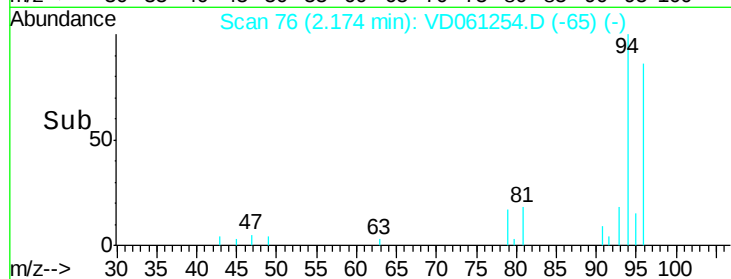
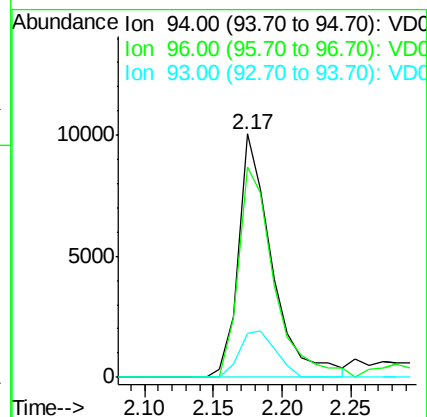
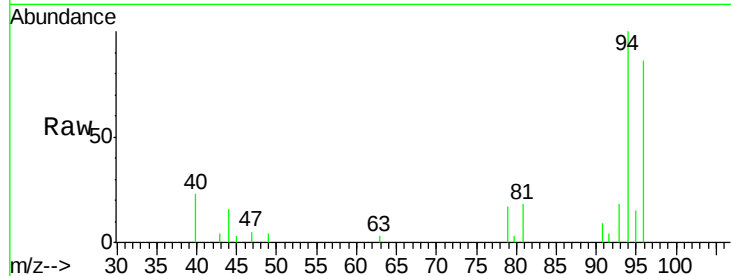
Tot Ion: 94 Resp: 17127

Ion Ratio Lower Upper

94 100

96 86.2 84.0 126.0

93 17.9 17.3 25.9



#6

Chloroethane

Concen: 20.194 ug/l

RT: 2.28 min Scan# 87

Delta R.T. 0.00 min

Lab File: VD061254.D

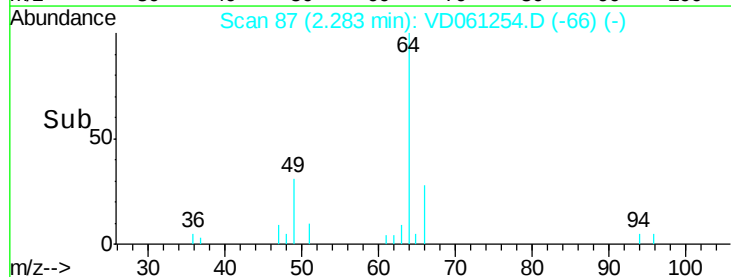
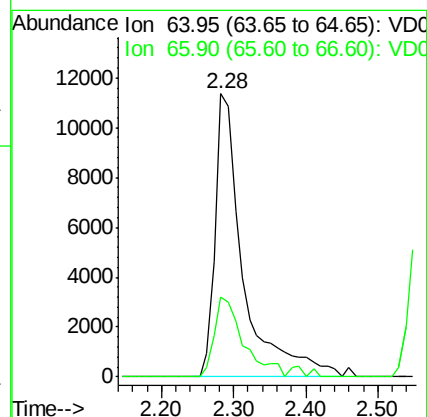
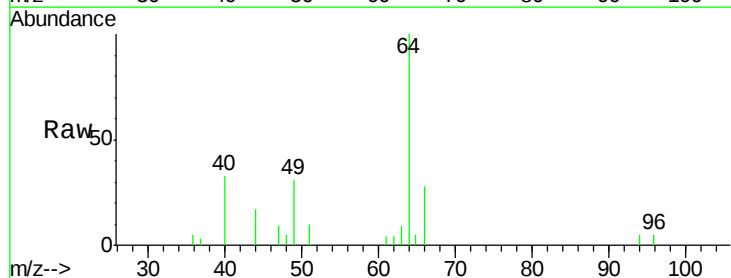
Acq: 22 Mar 2019 12:09

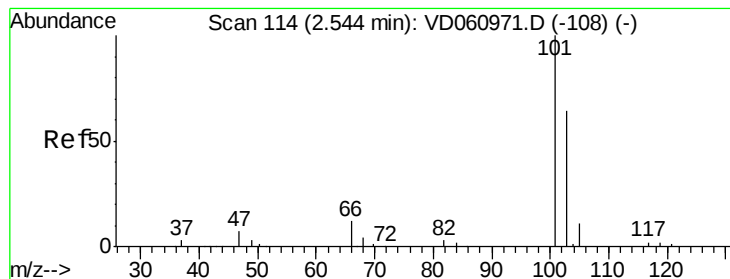
Tgt Ion: 64 Resp: 30438

Ion Ratio Lower Upper

64 100

66 28.3 22.2 33.2



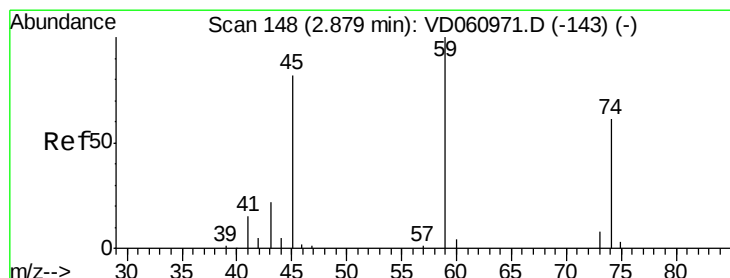
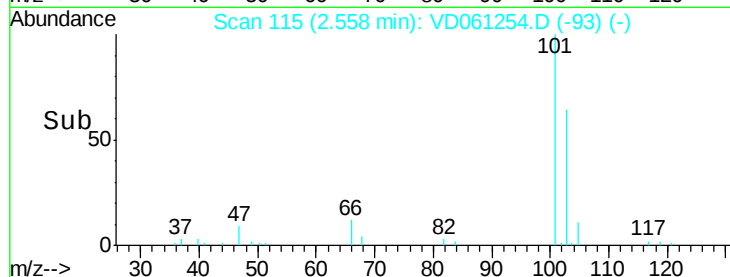
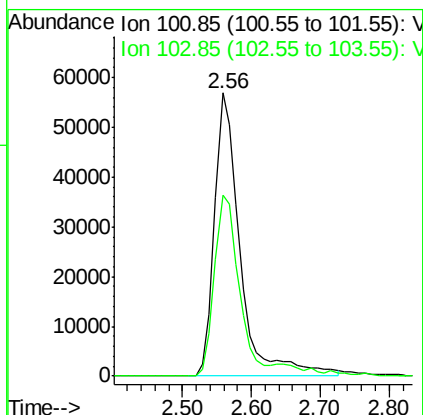
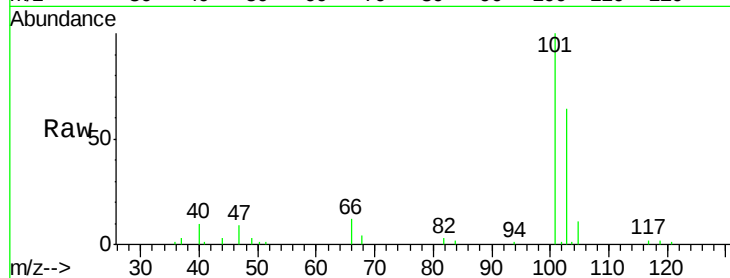


#7

Trichlorofluoromethane
Concen: 20.332 ug/l
RT: 2.56 min Scan# 115
Delta R.T. 0.01 min
Lab File: VD061254.D
Acq: 22 Mar 2019 12:09

Instrument :
MSVOA_D
ClientSampleId :
VD0322SBS01

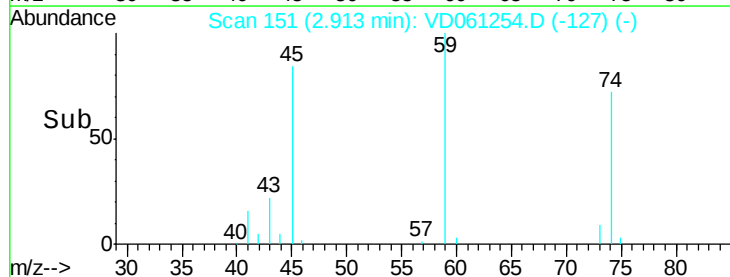
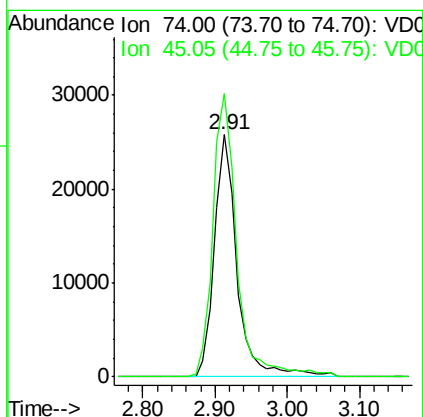
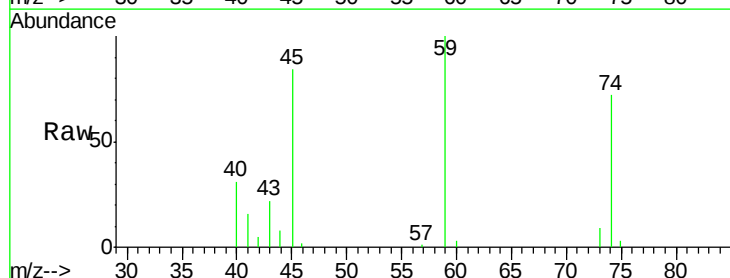
Tot Ion:101 Resp: 147079
Ion Ratio Lower Upper
101 100
103 63.9 51.2 76.8

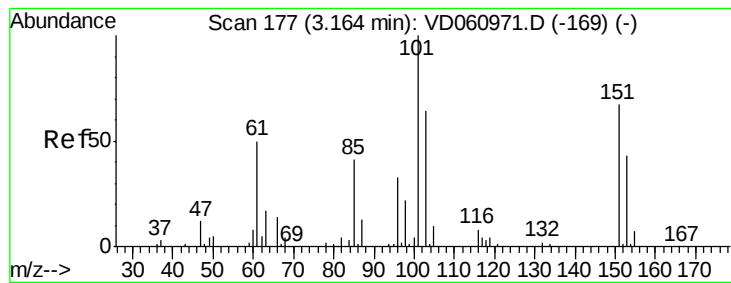


#8

Diethyl Ether
Concen: 23.459 ug/l
RT: 2.91 min Scan# 151
Delta R.T. 0.03 min
Lab File: VD061254.D
Acq: 22 Mar 2019 12:09

Tgt Ion: 74 Resp: 55983
Ion Ratio Lower Upper
74 100
45 117.0 67.0 201.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.667 ug/l

RT: 3.19 min Scan# 179

Delta R.T. 0.02 min

Lab File: VD061254.D

Acq: 22 Mar 2019 12:09

Instrument :

MSVOA_D

ClientSampleId :

VD0322SBS01

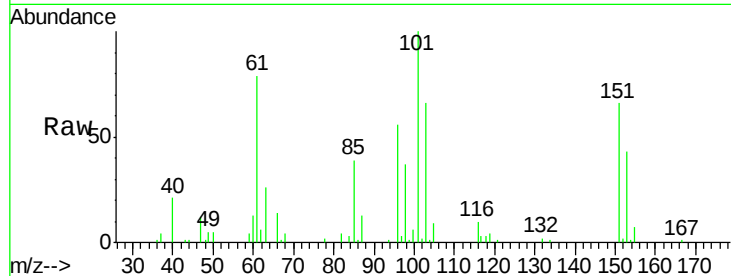
Tot Ion:101 Resp: 167143

Ion Ratio Lower Upper

101 100

85 39.4 32.5 48.7

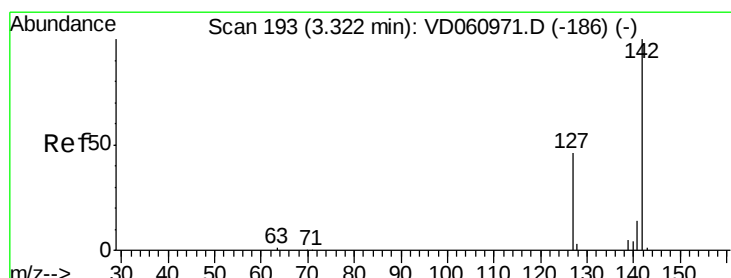
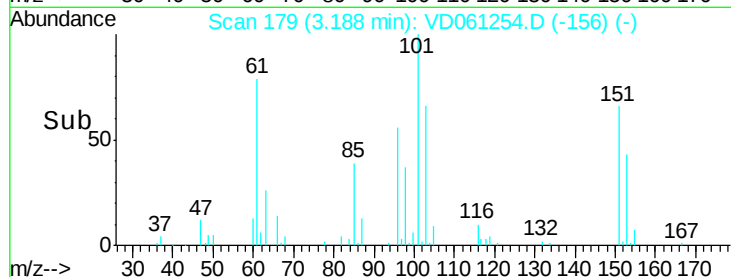
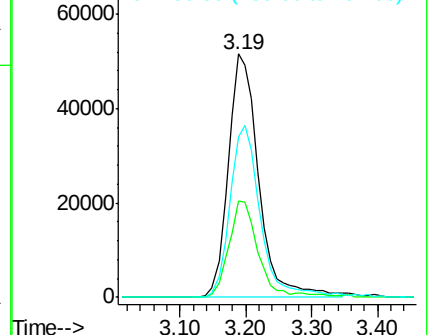
151 66.1 53.3 79.9



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: 18.150 ug/l

RT: 3.36 min Scan# 196

Delta R.T. 0.03 min

Lab File: VD061254.D

Acq: 22 Mar 2019 12:09

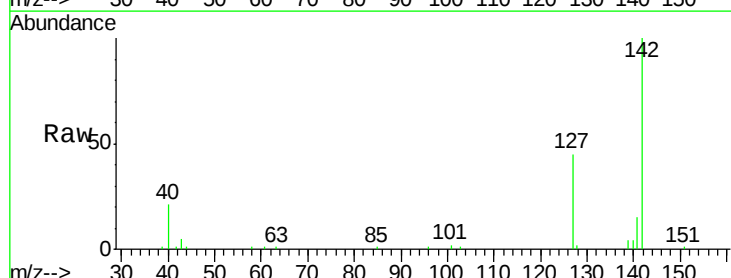
Tgt Ion:142 Resp: 180036

Ion Ratio Lower Upper

142 100

127 45.0 36.8 55.2

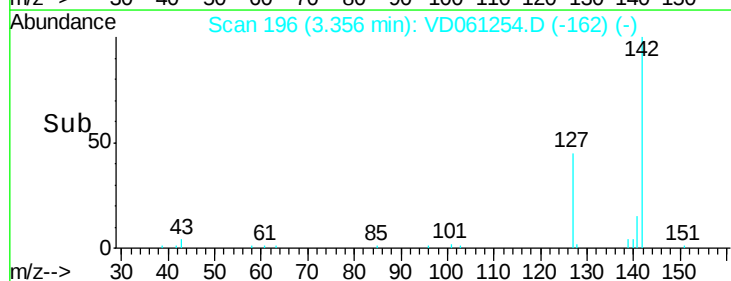
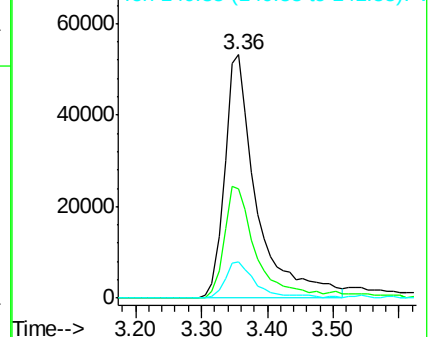
141 14.7 11.2 16.8

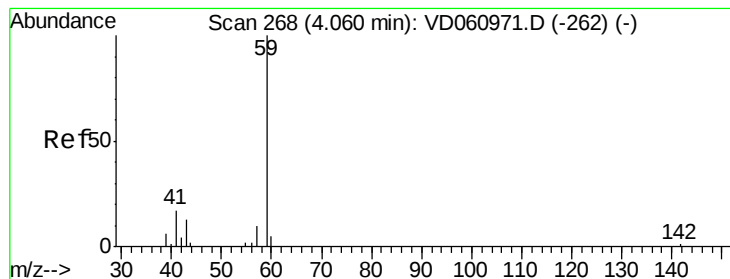


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



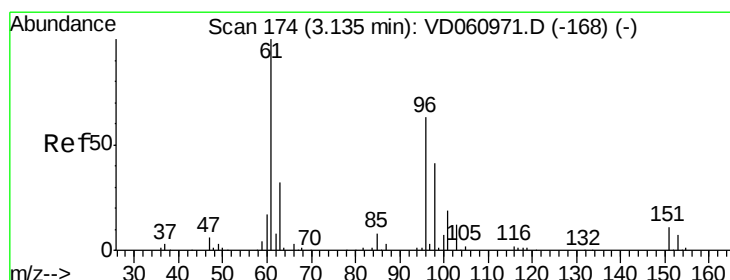
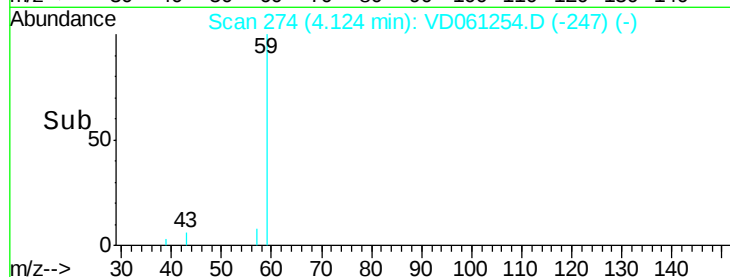
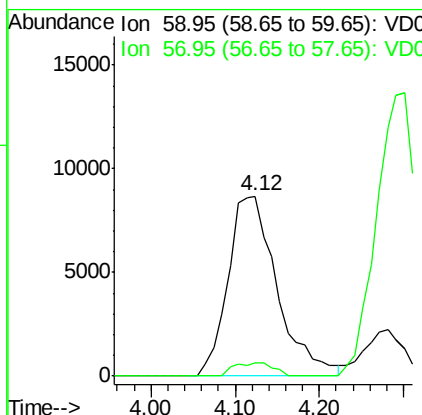
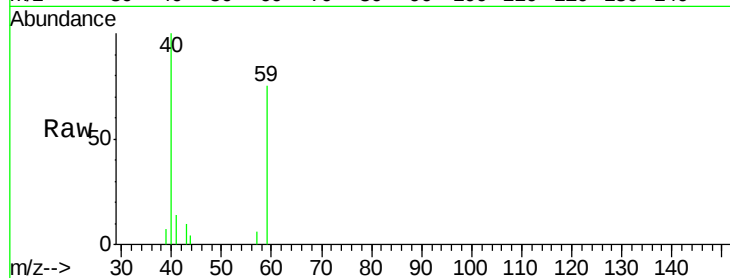


#11

Tert butyl alcohol
Concen: 100.849 ug/l
RT: 4.12 min Scan# 274
Delta R.T. 0.06 min
Lab File: VD061254.D
Acq: 22 Mar 2019 12:09

Instrument :
MSVOA_D
ClientSampleId :
VD0322SBS01

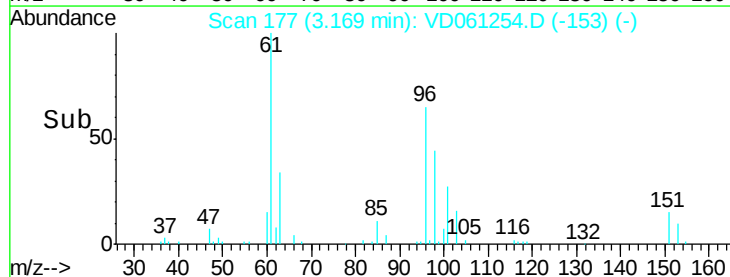
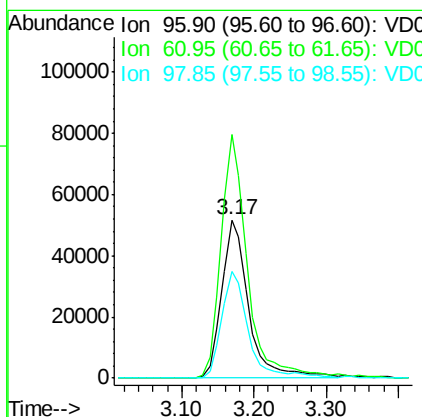
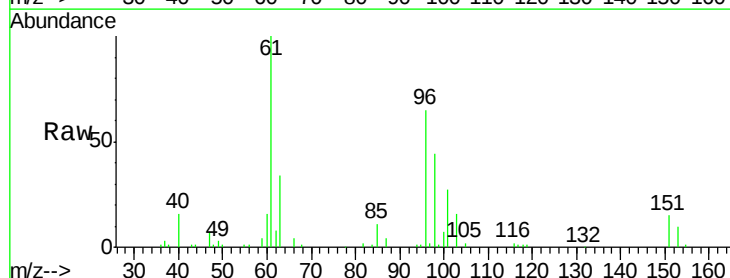
Tot Ion: 59 Resp: 35294
Ion Ratio Lower Upper
59 100
57 7.6 7.1 10.7

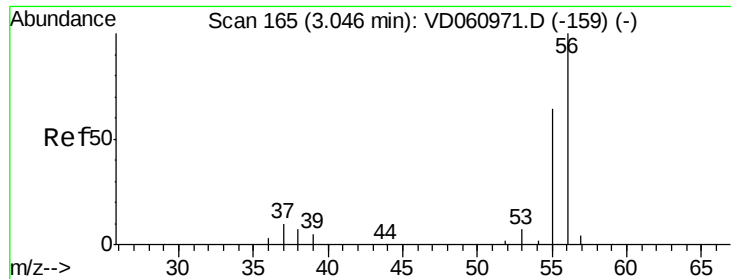


#12

1,1-Dichloroethene
Concen: 20.126 ug/l
RT: 3.17 min Scan# 177
Delta R.T. 0.03 min
Lab File: VD061254.D
Acq: 22 Mar 2019 12:09

Tgt Ion: 96 Resp: 133425
Ion Ratio Lower Upper
96 100
61 154.1 127.1 190.7
98 67.3 51.5 77.3





#13

Acrolein

Concen: 48.057 ug/l

RT: 3.08 min Scan# 168

Delta R.T. 0.03 min

Lab File: VD061254.D

Acq: 22 Mar 2019 12:09

Instrument :

MSVOA_D

ClientSampleId :

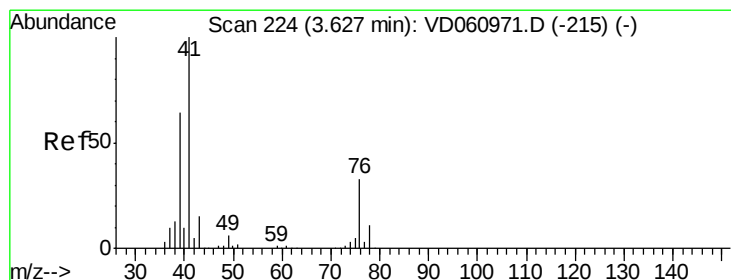
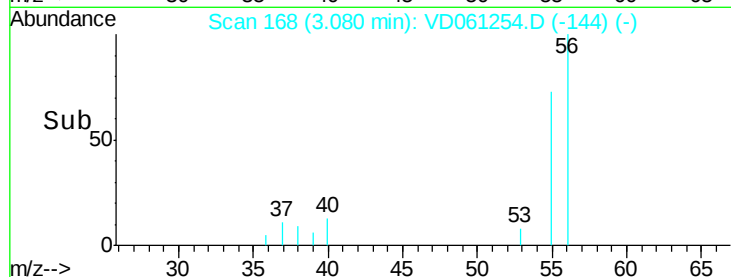
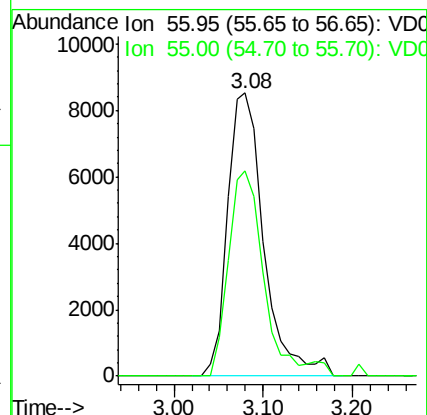
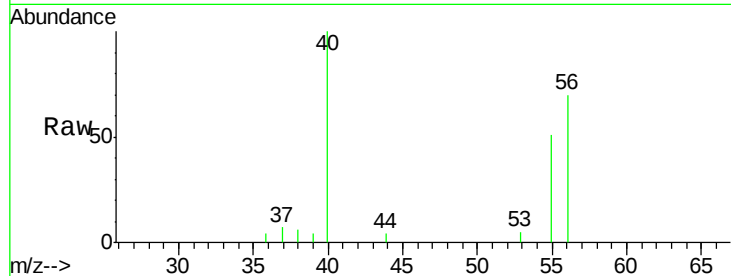
VD0322SBS01

Tot Ion: 56 Resp: 24335

Ion Ratio Lower Upper

56 100

55 72.6 51.3 76.9



#14

Allyl chloride

Concen: 19.591 ug/l

RT: 3.67 min Scan# 228

Delta R.T. 0.04 min

Lab File: VD061254.D

Acq: 22 Mar 2019 12:09

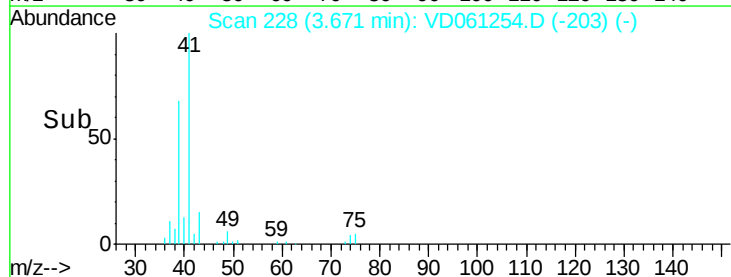
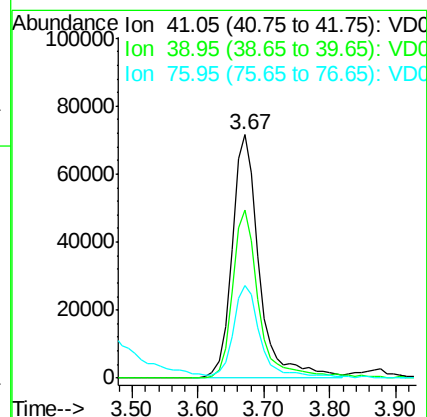
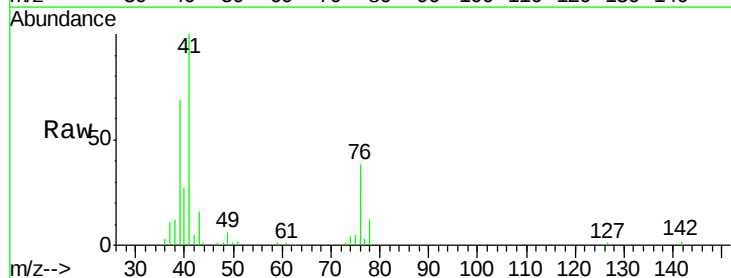
Tgt Ion: 41 Resp: 207800

Ion Ratio Lower Upper

41 100

39 69.2 51.1 76.7

76 38.1 29.1 43.7





#15

Acrylonitrile

Concen: 103.243 ug/l

RT: 4.25 min Scan# 287

Delta R.T. 0.05 min

Lab File: VD061254.D

Acq: 22 Mar 2019 12:09

Instrument :

MSVOA_D

ClientSampleID :

VD0322SBS01

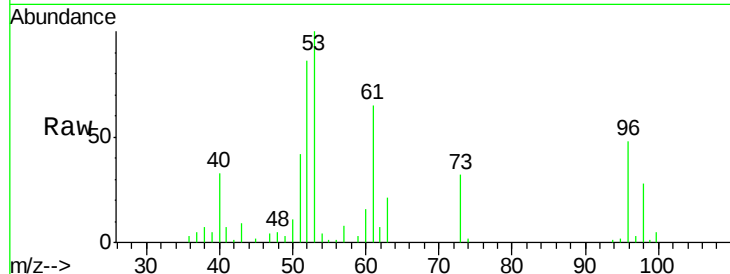
Tot Ion: 53 Resp: 127702

Ion Ratio Lower Upper

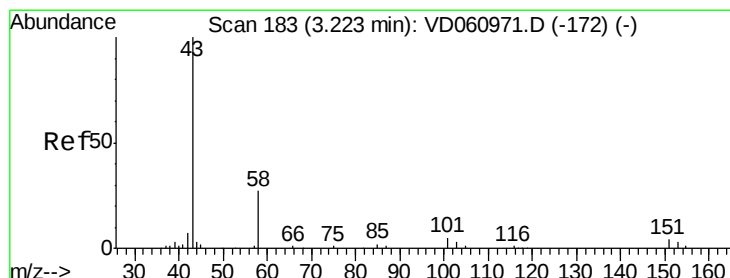
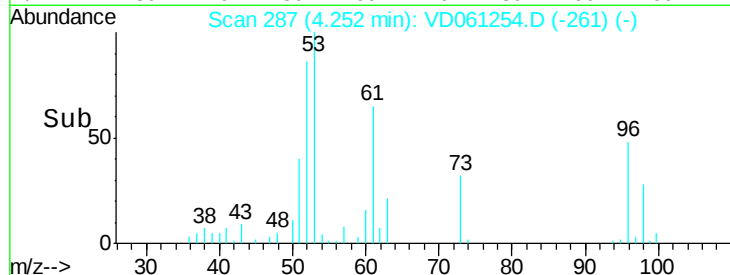
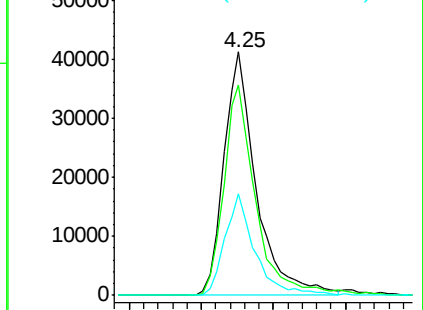
53 100

52 86.2 70.2 105.4

51 41.7 31.7 47.5



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: 100.658 ug/l

RT: 3.26 min Scan# 186

Delta R.T. 0.03 min

Lab File: VD061254.D

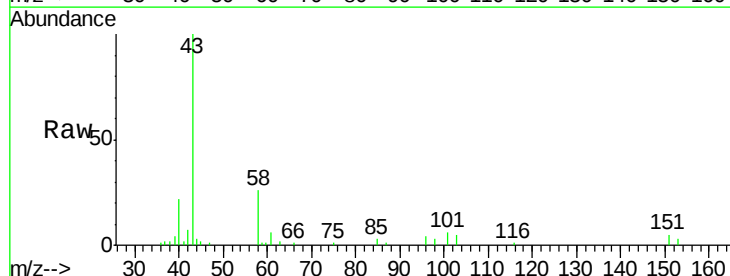
Acq: 22 Mar 2019 12:09

Tgt Ion: 43 Resp: 158235

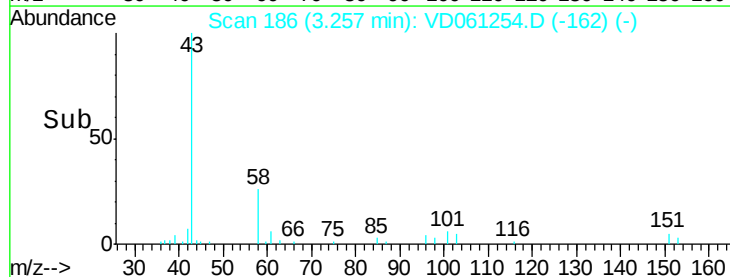
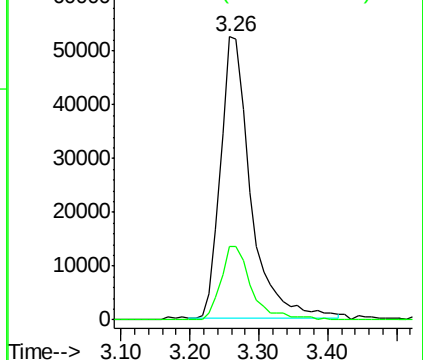
Ion Ratio Lower Upper

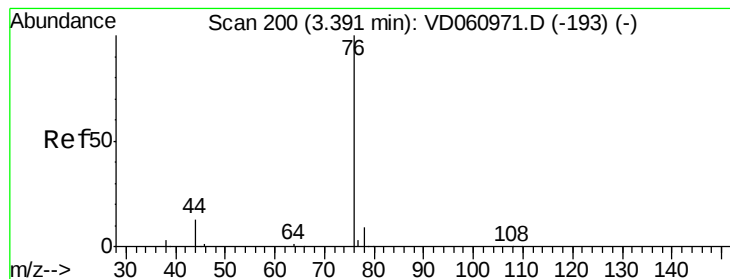
43 100

58 26.1 21.6 32.4



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





#17

Carbon Disulfide

Concen: 16.718 ug/l

RT: 3.42 min Scan# 203

Delta R.T. 0.03 min

Lab File: VD061254.D

Acq: 22 Mar 2019 12:09

Instrument :

MSVOA_D

ClientSampleId :

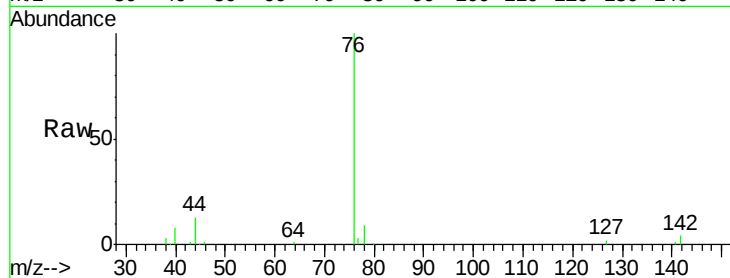
VD0322SBS01

Tot Ion: 76 Resp: 373853

Ion Ratio Lower Upper

76 100

78 9.4 7.4 11.2



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

150000

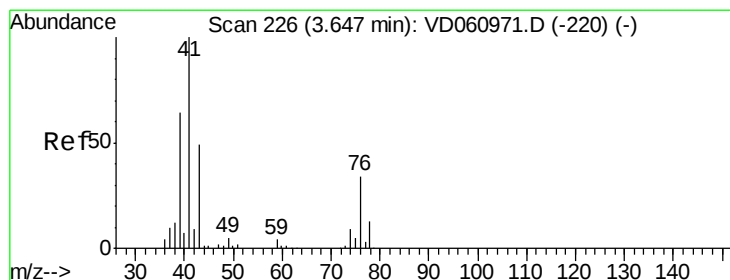
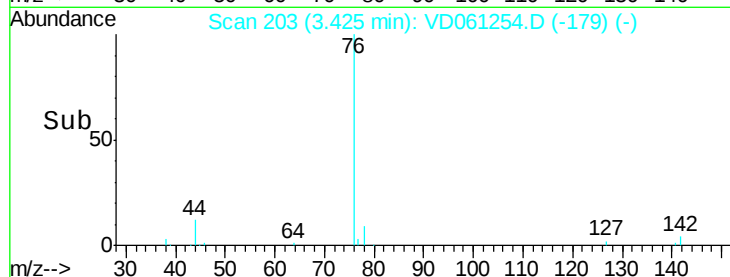
100000

50000

0

3.30 3.40 3.50 3.60

Time-->



#18

Methyl Acetate

Concen: 18.453 ug/l

RT: 3.69 min Scan# 230

Delta R.T. 0.04 min

Lab File: VD061254.D

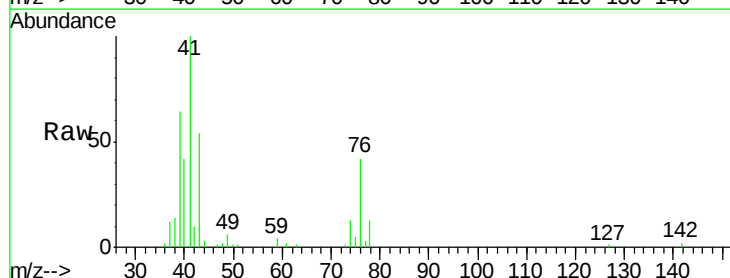
Acq: 22 Mar 2019 12:09

Tgt Ion: 43 Resp: 57087

Ion Ratio Lower Upper

43 100

74 23.7 14.6 21.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

20000

15000

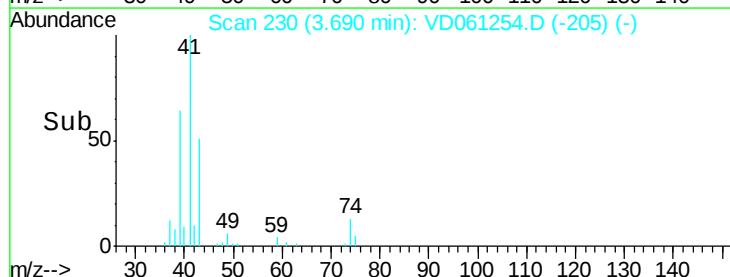
10000

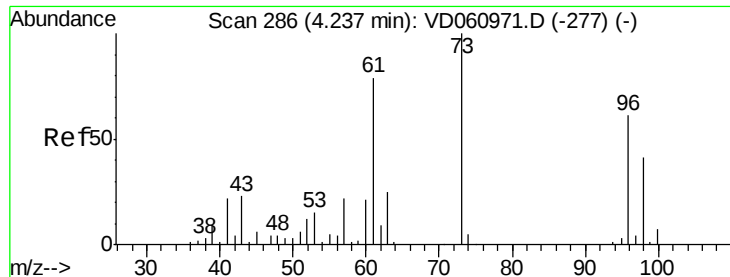
5000

0

3.60 3.70 3.80 3.90

Time-->

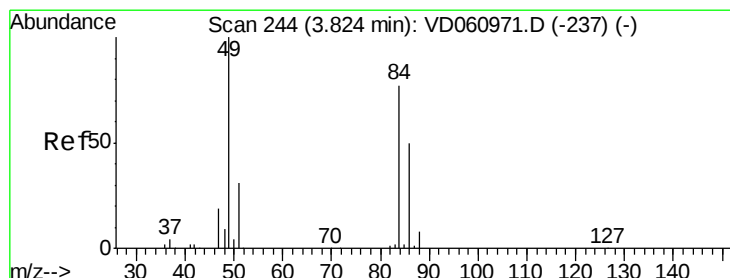
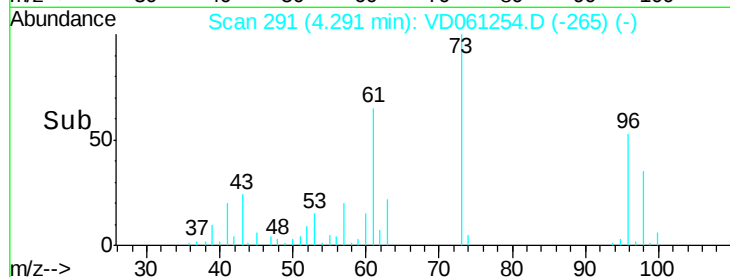
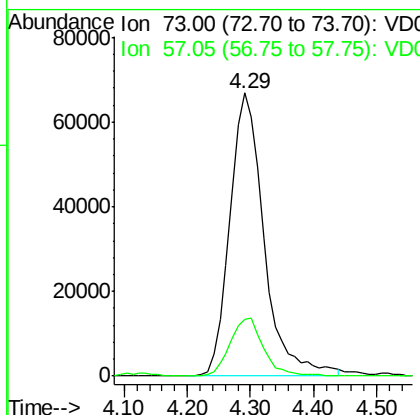
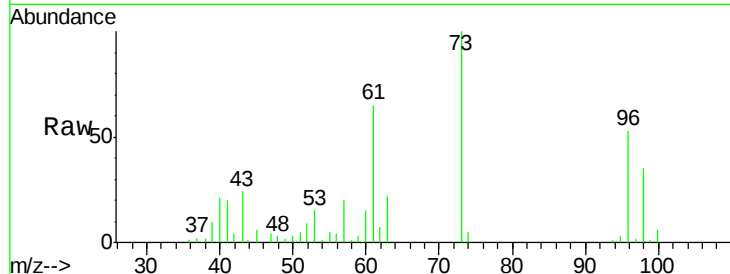




#19
Methyl tert-butyl Ether
Concen: 21.580 ug/l
RT: 4.29 min Scan# 291
Delta R.T. 0.05 min
Lab File: VD061254.D
Acq: 22 Mar 2019 12:09

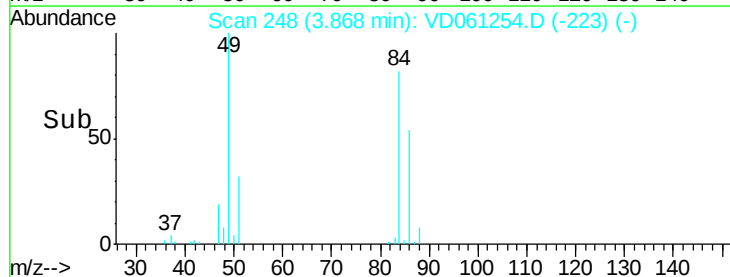
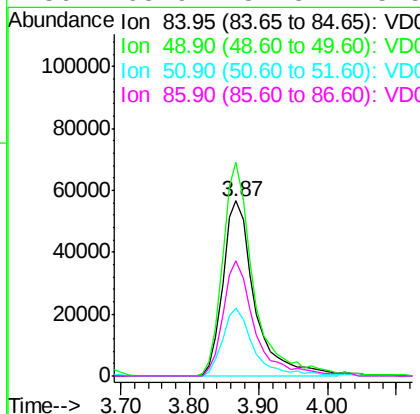
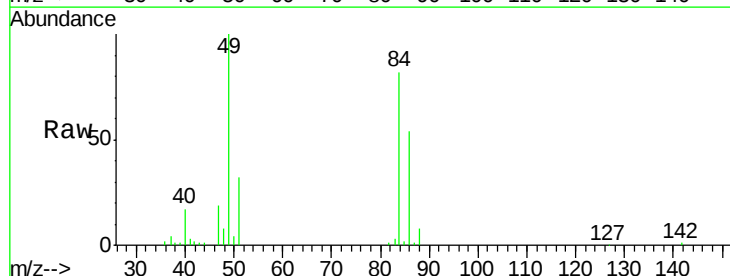
Instrument :
MSVOA_D
ClientSampleId :
VD0322SBS01

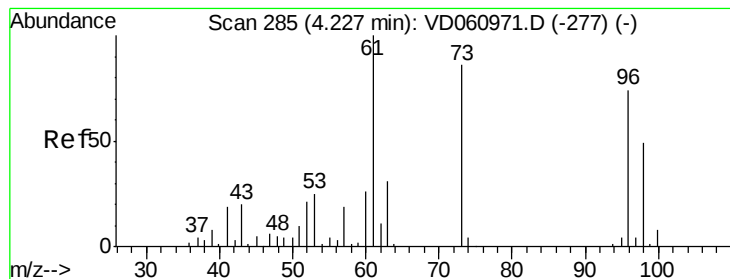
Tot Ion: 73 Resp: 250713
Ion Ratio Lower Upper
73 100
57 20.3 17.7 26.5



#20
Methylene Chloride
Concen: 22.686 ug/l
RT: 3.87 min Scan# 248
Delta R.T. 0.04 min
Lab File: VD061254.D
Acq: 22 Mar 2019 12:09

Tgt Ion: 84 Resp: 180869
Ion Ratio Lower Upper
84 100
49 122.2 104.2 156.2
51 39.0 32.3 48.5
86 65.9 52.3 78.5





#21

trans-1,2-Dichloroethene

Concen: 20.887 ug/l

RT: 4.27 min Scan# 289

Delta R.T. 0.04 min

Lab File: VD061254.D

Acq: 22 Mar 2019 12:09

Instrument :

MSVOA_D

ClientSampleId :

VD0322SBS01

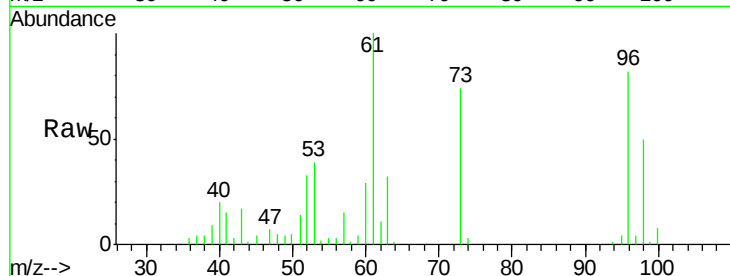
Tot Ion: 96 Resp: 149870

Ion Ratio Lower Upper

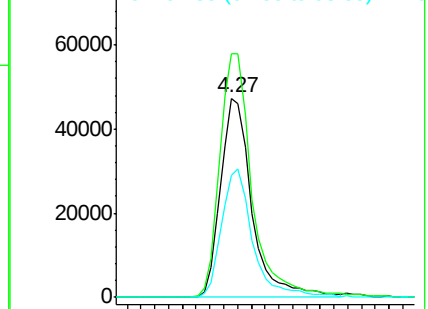
96 100

61 122.1 108.4 162.6

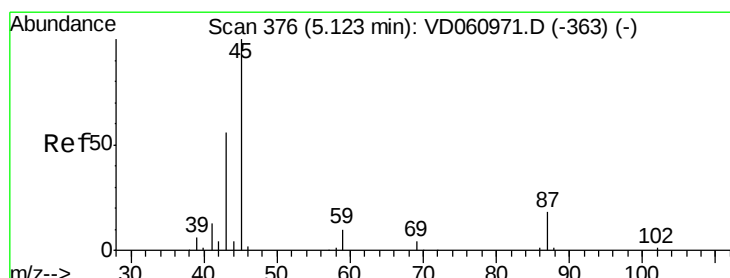
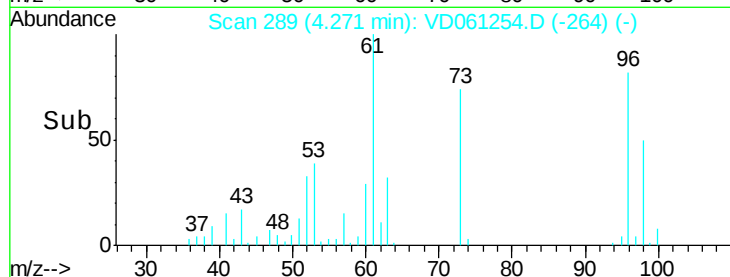
98 61.4 53.0 79.4



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



Time-->



#22

Diisopropyl ether

Concen: 19.939 ug/l

RT: 5.19 min Scan# 382

Delta R.T. 0.06 min

Lab File: VD061254.D

Acq: 22 Mar 2019 12:09

Tgt Ion: 45 Resp: 439037

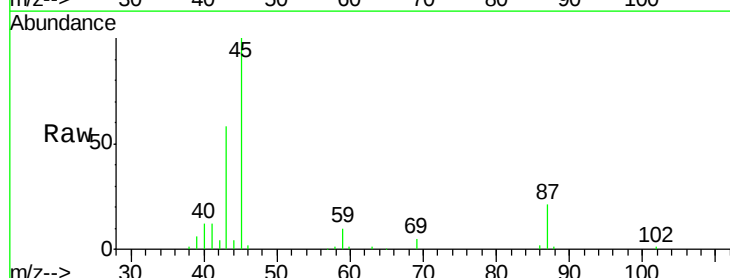
Ion Ratio Lower Upper

45 100

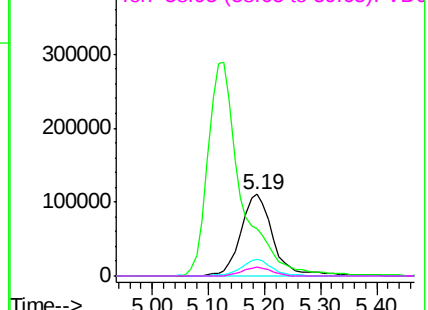
43 57.6 45.8 68.8

87 21.2 14.9 22.3

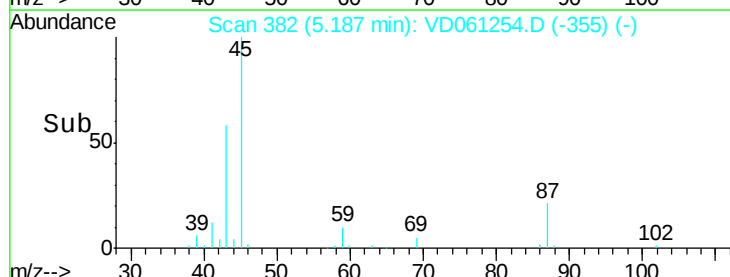
59 10.3 8.0 12.0

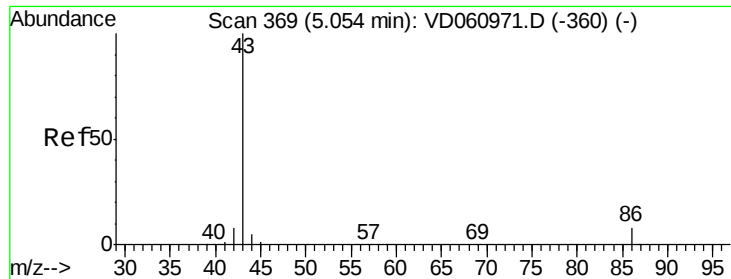


Abundance Ion 45.05 (44.75 to 45.75): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 87.00 (86.70 to 87.70): VDC
Ion 58.95 (58.65 to 59.65): VDC



Time-->





#23

Vinyl Acetate

Concen: 104.204 ug/l

RT: 5.13 min Scan# 376

Delta R.T. 0.07 min

Lab File: VD061254.D

Acq: 22 Mar 2019 12:09

Instrument :

MSVOA_D

ClientSampleId :

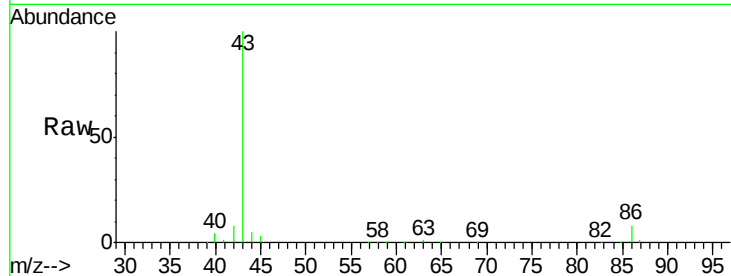
VD0322SBS01

Tot Ion: 43 Resp: 1177848

Ion Ratio Lower Upper

43 100

86 8.2 6.2 9.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC

5.13

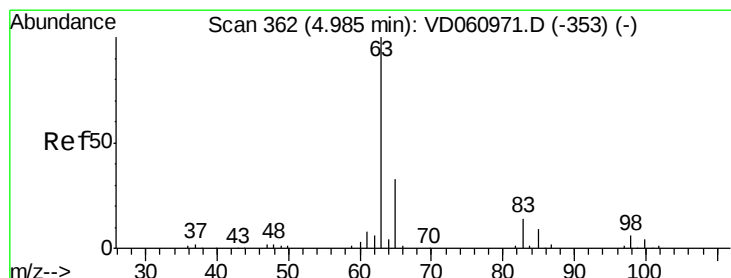
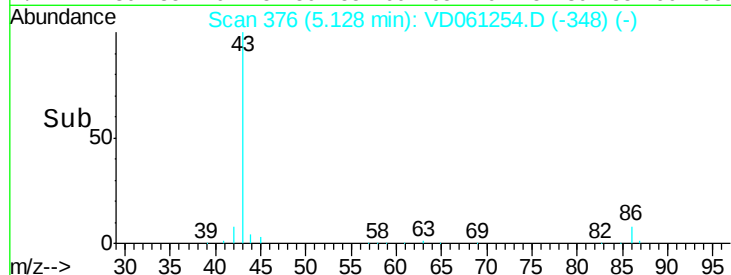
300000

200000

100000

0

Time-->



#24

1,1-Dichloroethane

Concen: 19.773 ug/l

RT: 5.05 min Scan# 368

Delta R.T. 0.06 min

Lab File: VD061254.D

Acq: 22 Mar 2019 12:09

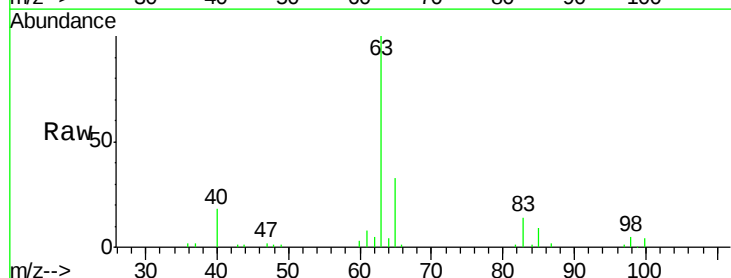
Tgt Ion: 63 Resp: 238547

Ion Ratio Lower Upper

63 100

98 5.0 3.0 9.2

100 3.5 2.0 5.8



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC

5.05

80000

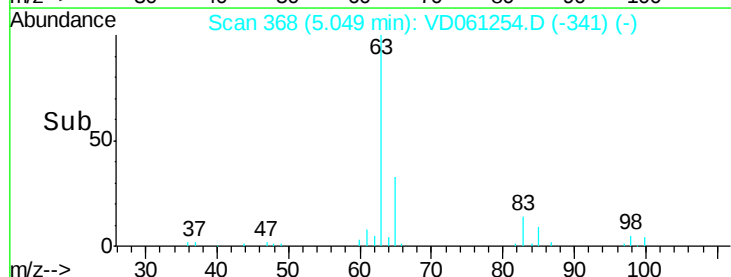
60000

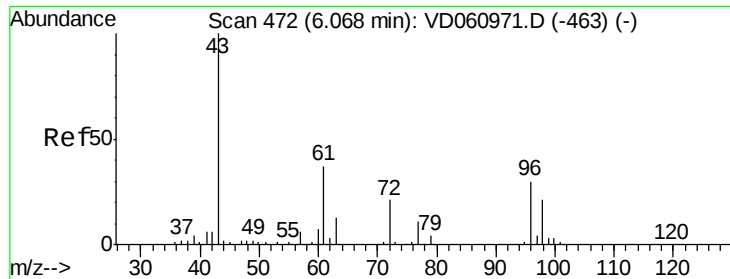
40000

20000

0

Time-->





#25

2-Butanone

Concen: 109.182 ug/l

RT: 6.13 min Scan# 478

Delta R.T. 0.06 min

Lab File: VD061254.D

Acq: 22 Mar 2019 12:09

Instrument :

MSVOA_D

ClientSampleId :

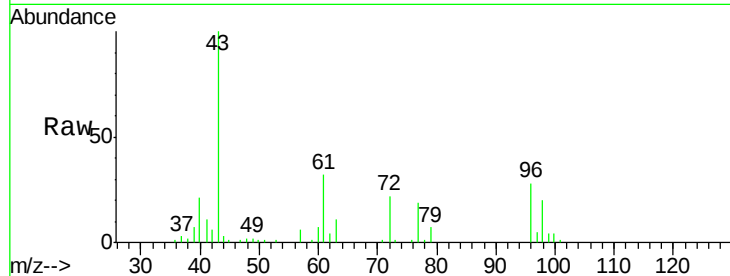
VD0322SBS01

Tot Ion: 43 Resp: 194758

Ion Ratio Lower Upper

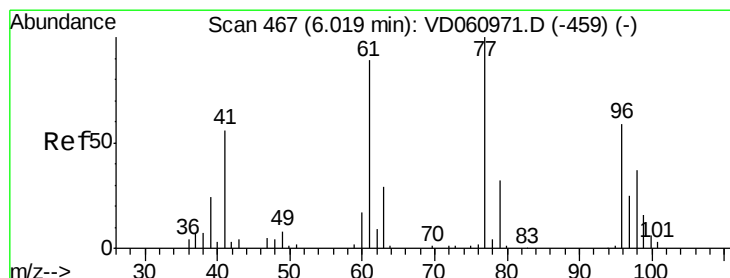
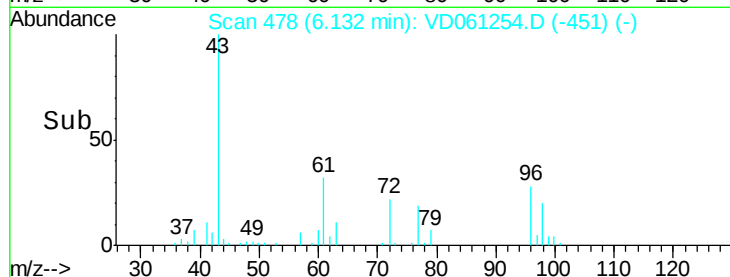
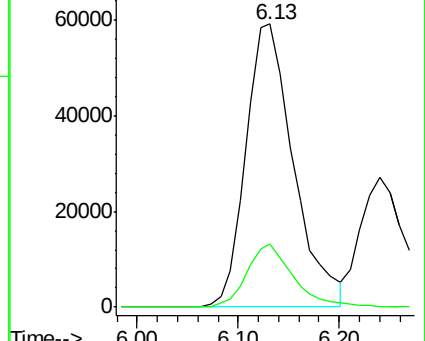
43 100

72 22.5 16.7 25.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 22.450 ug/l

RT: 6.08 min Scan# 473

Delta R.T. 0.06 min

Lab File: VD061254.D

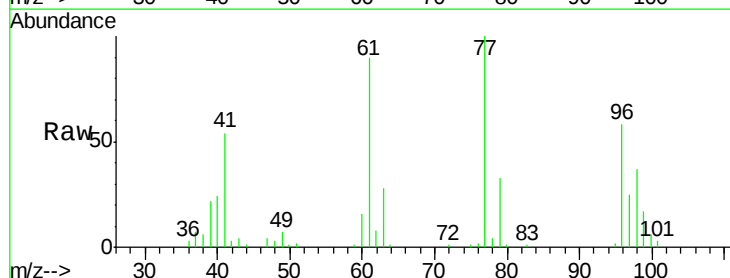
Acq: 22 Mar 2019 12:09

Tgt Ion: 77 Resp: 211437

Ion Ratio Lower Upper

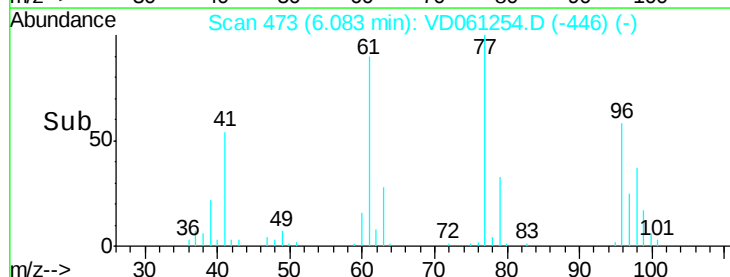
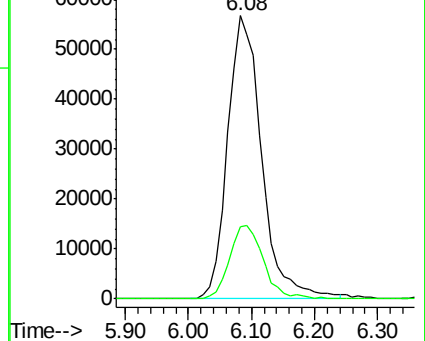
77 100

97 25.4 12.6 37.6



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



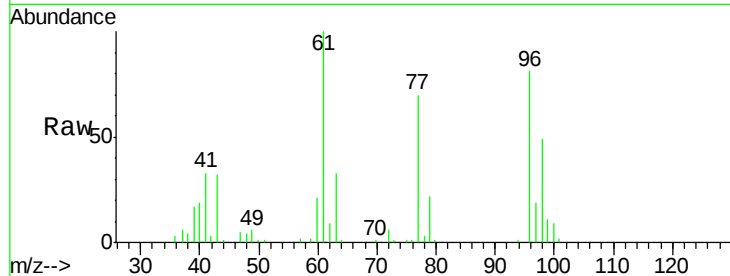


#27

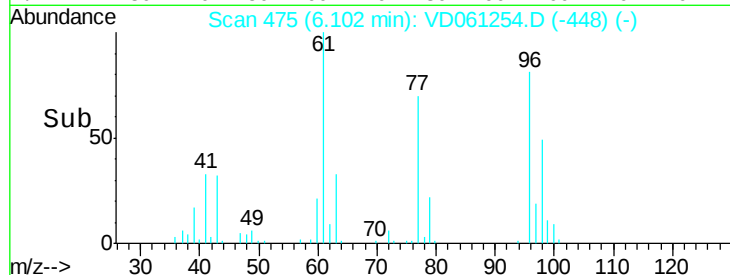
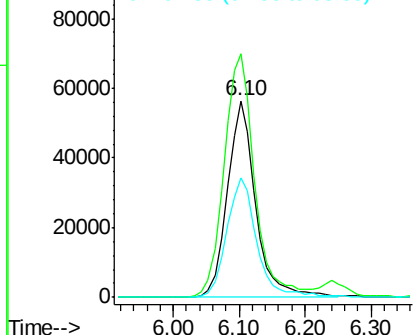
cis-1,2-Dichloroethene
 Concen: 22.203 ug/l
 RT: 6.10 min Scan# 475
 Delta R.T. 0.06 min
 Lab File: VD061254.D
 Acq: 22 Mar 2019 12:09

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0322SBS01

Tot Ion: 96 Resp: 169032
 Ion Ratio Lower Upper
 96 100
 61 124.0 0.0 273.6
 98 61.1 0.0 132.6



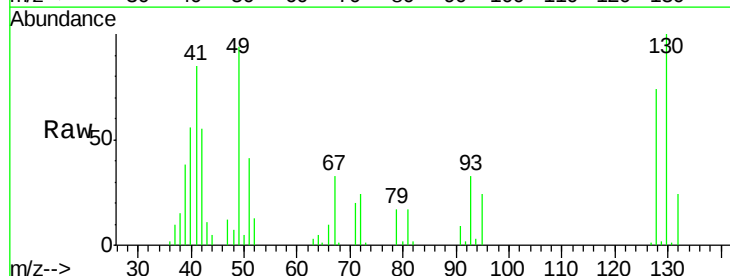
Abundance Ion 95.90 (95.60 to 96.60): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 97.85 (97.55 to 98.55): VDC



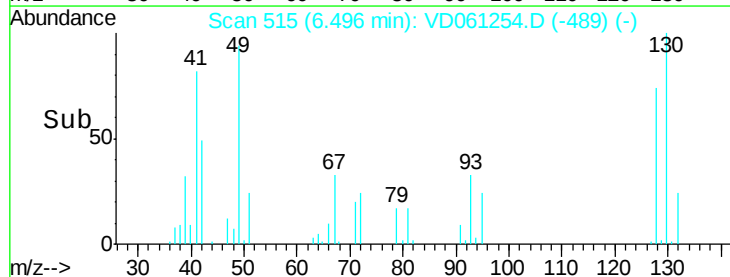
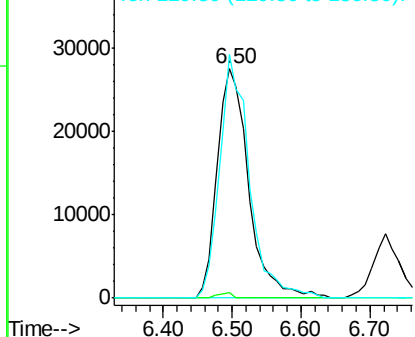
#28

Bromochloromethane
 Concen: 17.101 ug/l
 RT: 6.50 min Scan# 515
 Delta R.T. 0.05 min
 Lab File: VD061254.D
 Acq: 22 Mar 2019 12:09

Tgt Ion: 49 Resp: 87340
 Ion Ratio Lower Upper
 49 100
 129 2.2 0.0 4.0
 130 106.2 73.8 110.8



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

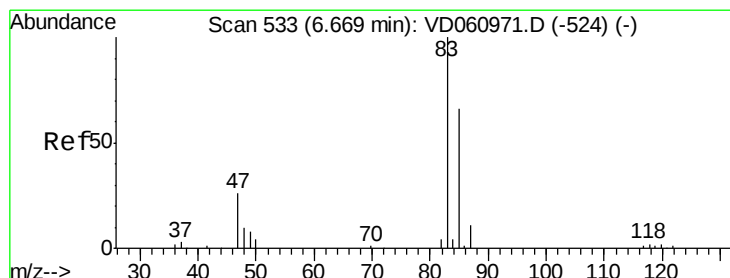
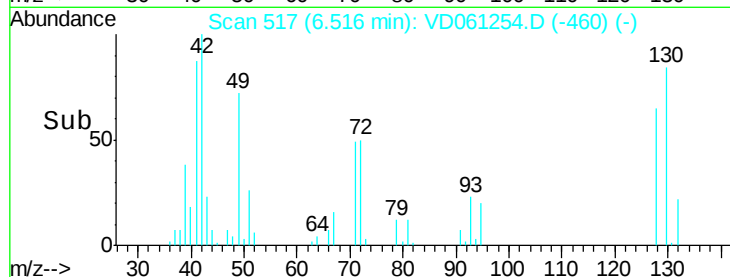
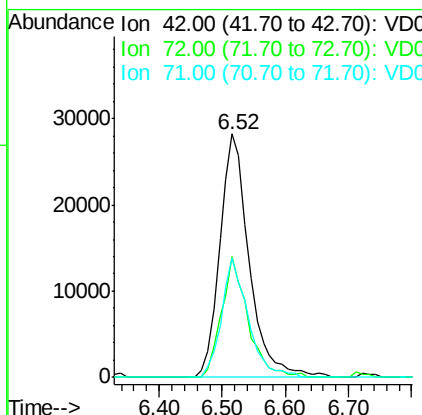
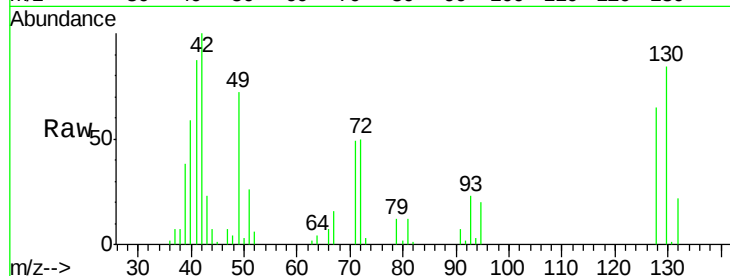




#29
Tetrahydrofuran
Concen: 94.214 ug/l
RT: 6.52 min Scan# 517
Delta R.T. 0.06 min
Lab File: VD061254.D
Acq: 22 Mar 2019 12:09

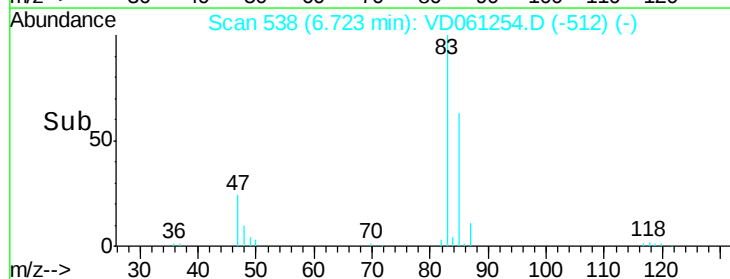
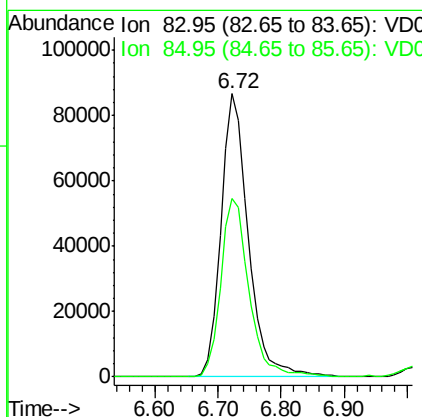
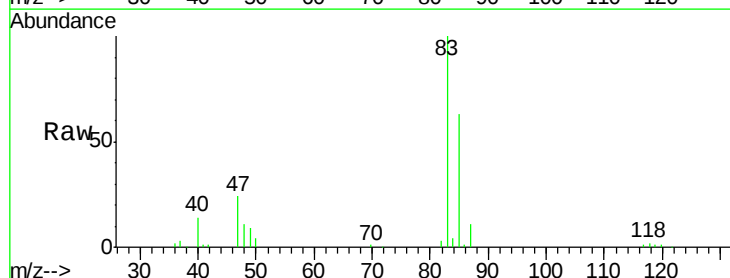
Instrument :
MSVOA_D
ClientSampleId :
VD0322SBS01

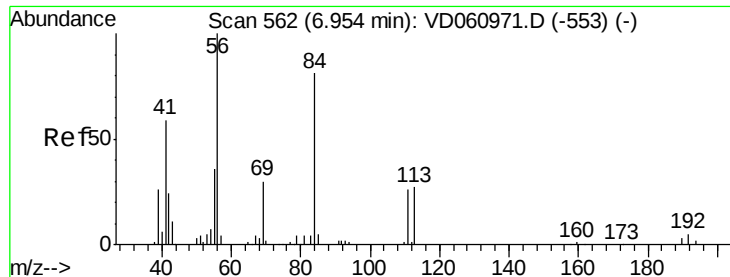
Tot Ion: 42 Resp: 91255
Ion Ratio Lower Upper
42 100
72 44.5 34.5 51.7
71 44.4 33.8 50.6



#30
Chloroform
Concen: 20.875 ug/l
RT: 6.72 min Scan# 538
Delta R.T. 0.05 min
Lab File: VD061254.D
Acq: 22 Mar 2019 12:09

Tgt Ion: 83 Resp: 261014
Ion Ratio Lower Upper
83 100
85 63.1 53.0 79.4

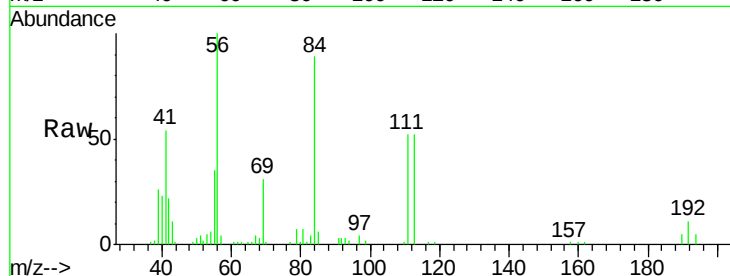




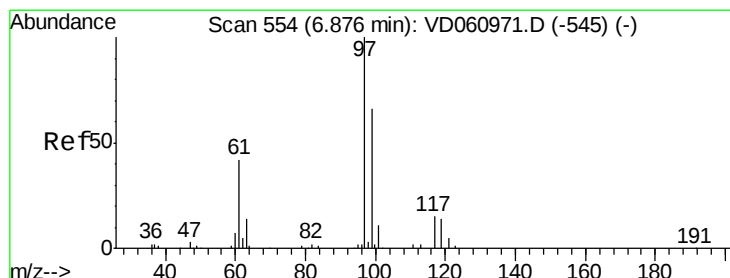
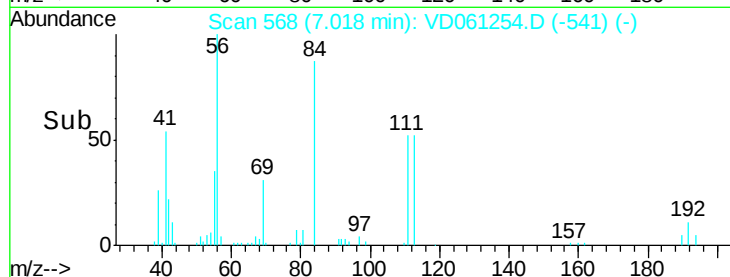
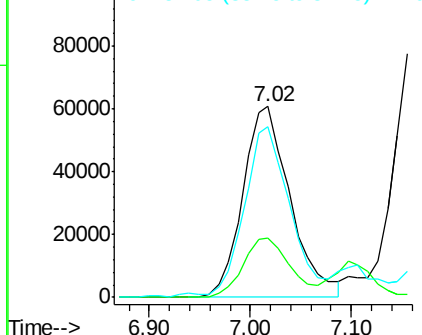
#31
Cyclohexane
Concen: 20.423 ug/l
RT: 7.02 min Scan# 568
Delta R.T. 0.06 min
Lab File: VD061254.D
Acq: 22 Mar 2019 12:09

Instrument :
MSVOA_D
ClientSampleId :
VD0322SBS01

Tot Ion: 56 Resp: 198673
Ion Ratio Lower Upper
56 100
69 30.9 24.0 36.0
84 89.2 65.8 98.6

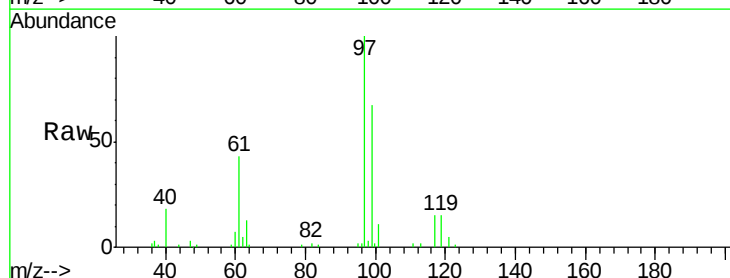


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

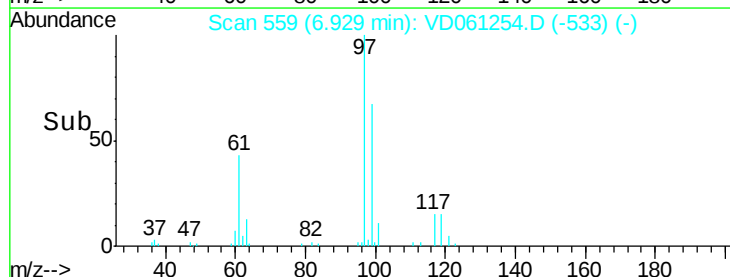
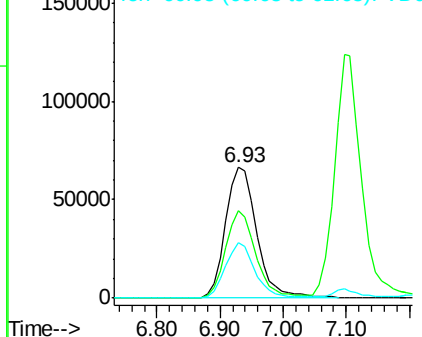


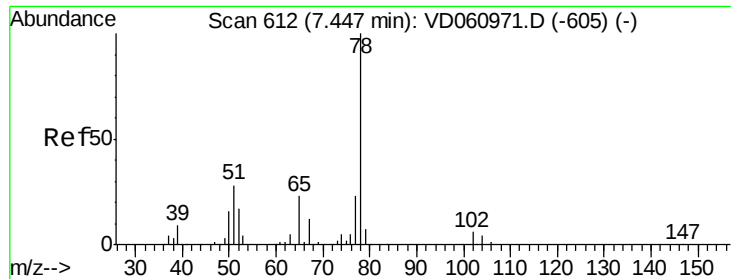
#32
1,1,1-Trichloroethane
Concen: 21.027 ug/l
RT: 6.93 min Scan# 559
Delta R.T. 0.05 min
Lab File: VD061254.D
Acq: 22 Mar 2019 12:09

Tgt Ion: 97 Resp: 227299
Ion Ratio Lower Upper
97 100
99 66.6 53.2 79.8
61 42.6 33.8 50.8



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: 21.027 ug/l

RT: 7.51 min Scan# 618

Delta R.T. 0.06 min

Lab File: VD061254.D

Acq: 22 Mar 2019 12:09

Instrument :

MSVOA_D

ClientSampleId :

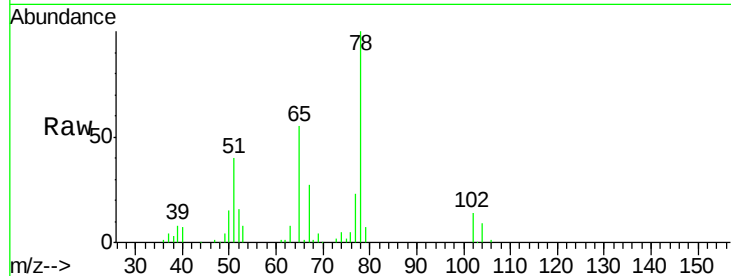
VD0322SBS01

Tot Ion: 65 Resp: 252105

Ion Ratio Lower Upper

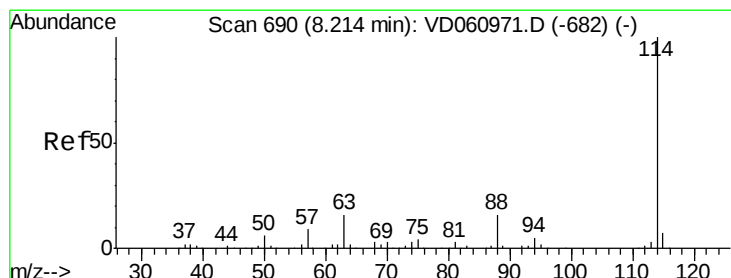
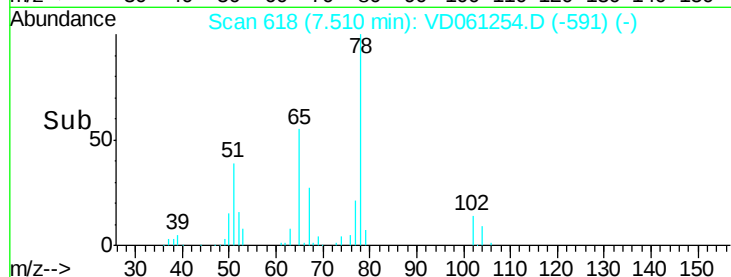
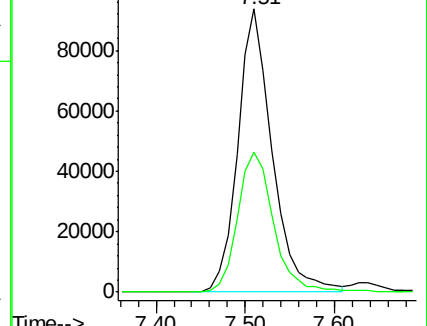
65 100

67 49.6 0.0 105.2



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.27 min Scan# 695

Delta R.T. 0.05 min

Lab File: VD061254.D

Acq: 22 Mar 2019 12:09

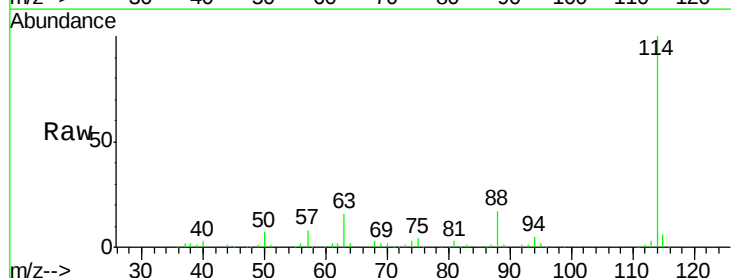
Tgt Ion: 114 Resp: 1086029

Ion Ratio Lower Upper

114 100

63 16.2 0.0 31.4

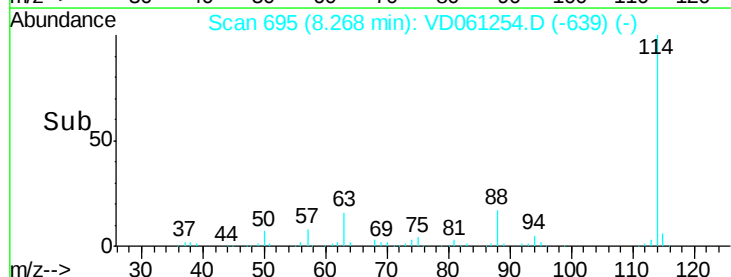
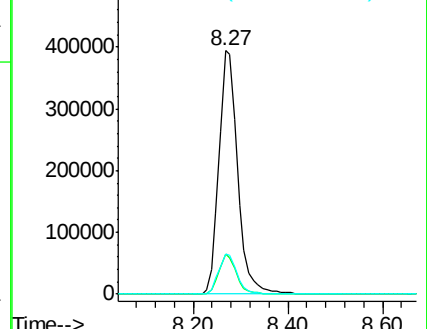
88 16.6 0.0 33.0

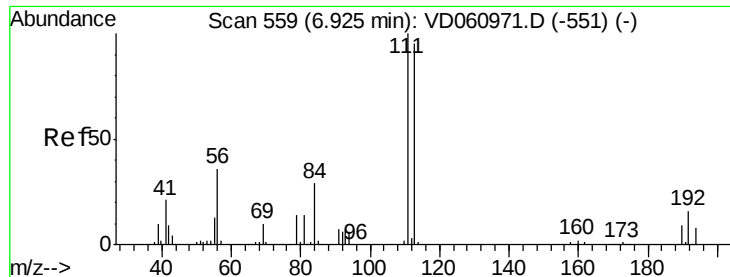


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.99 min Scan# 565

Delta R.T. 0.06 min

Lab File: VD061254.D

Acq: 22 Mar 2019 12:09

Instrument :

MSVOA_D

ClientSampleId :

VD0322SBS01

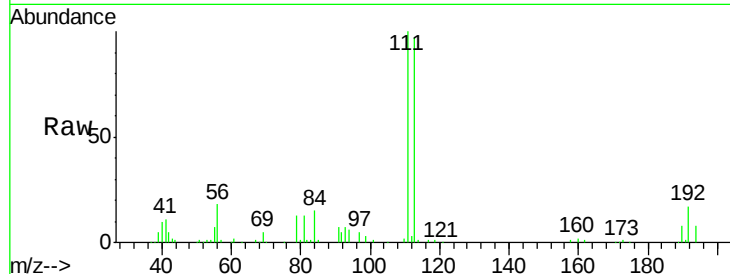
Tot Ion:113 Resp: 409508

Ion Ratio Lower Upper

113 100

111 102.7 84.2 126.4

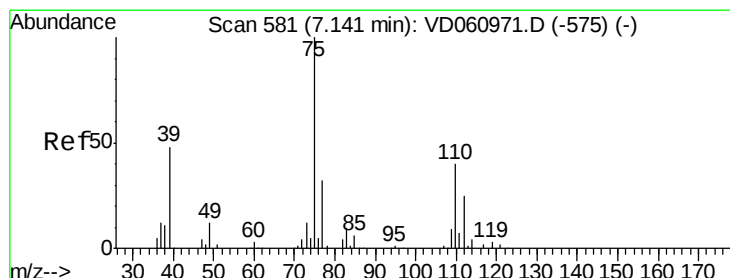
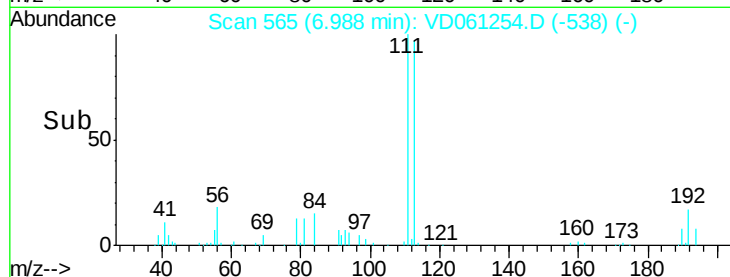
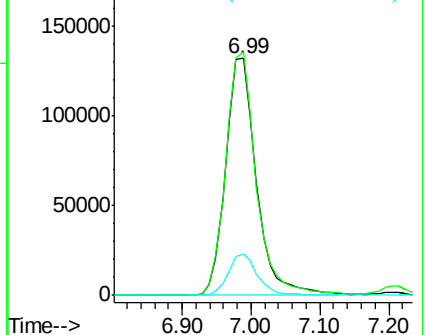
192 17.3 13.1 19.7



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: 21.327 ug/l

RT: 7.20 min Scan# 587

Delta R.T. 0.06 min

Lab File: VD061254.D

Acq: 22 Mar 2019 12:09

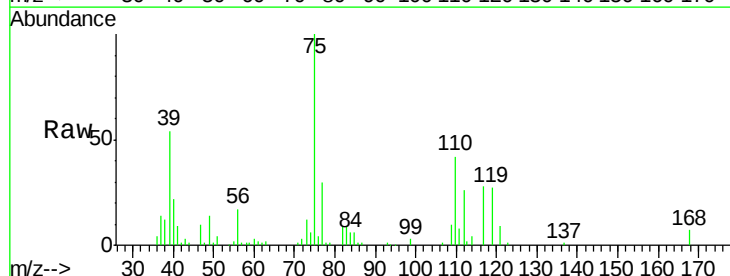
Tgt Ion: 75 Resp: 199650

Ion Ratio Lower Upper

75 100

110 42.0 19.7 59.1

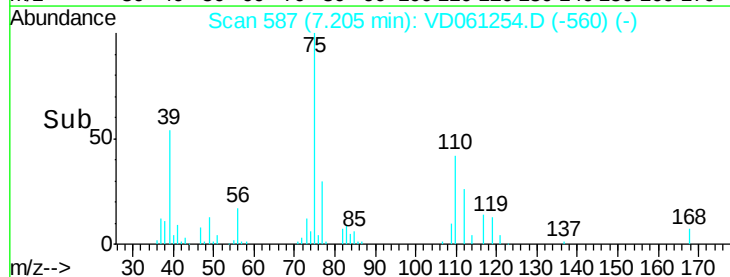
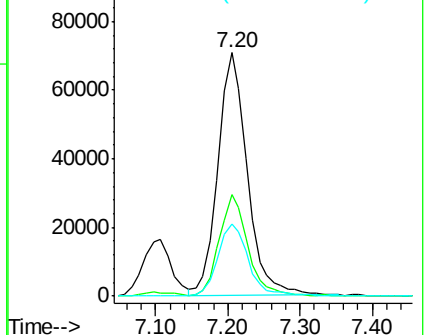
77 29.5 24.7 37.1

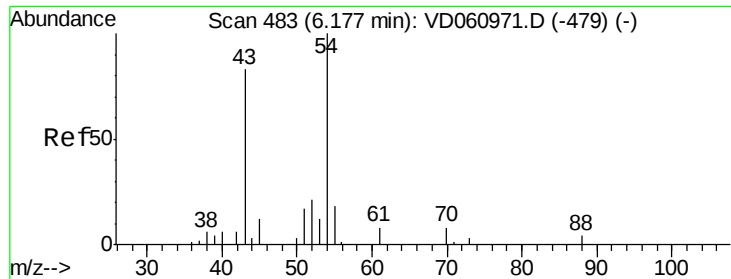


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

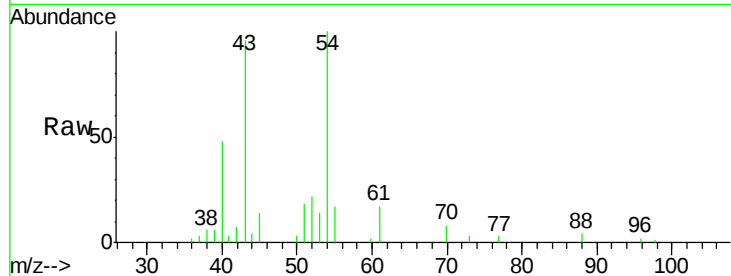




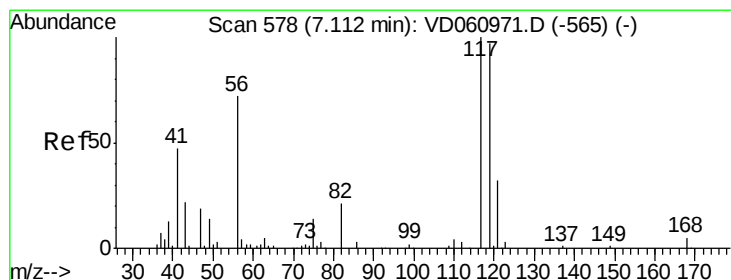
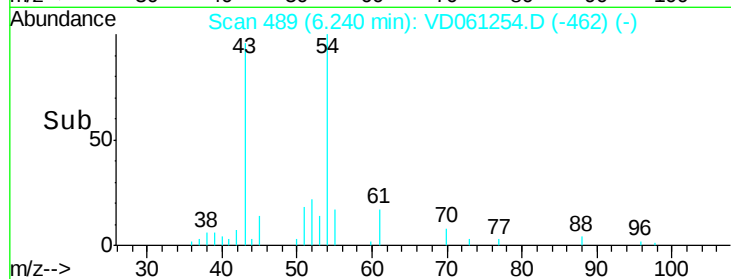
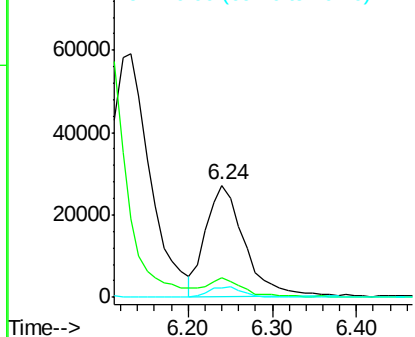
#37
Ethyl Acetate
Concen: 19.353 ug/l
RT: 6.24 min Scan# 489
Delta R.T. 0.06 min
Lab File: VD061254.D
Acq: 22 Mar 2019 12:09

Instrument :
MSVOA_D
ClientSampleId :
VD0322SBS01

Tot Ion: 43 Resp: 85019
Ion Ratio Lower Upper
43 100
61 17.8 13.7 20.5
70 8.6 7.1 10.7

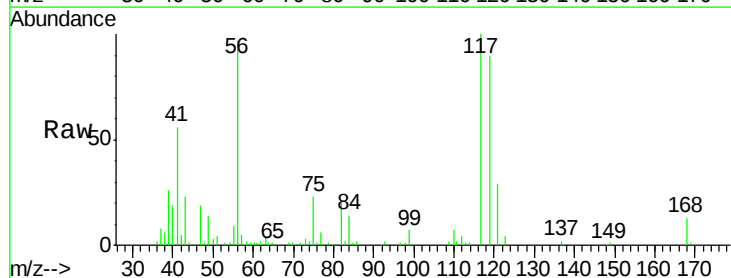


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

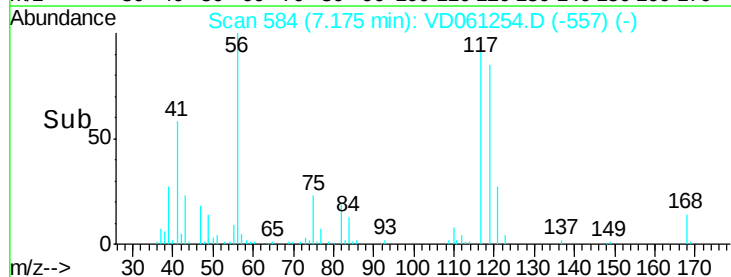
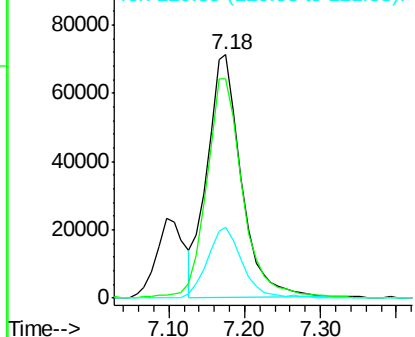


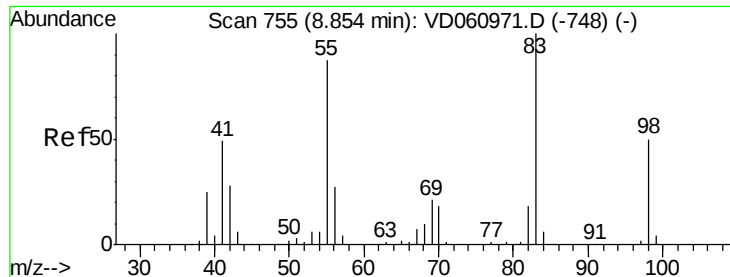
#38
Carbon Tetrachloride
Concen: 21.666 ug/l
RT: 7.18 min Scan# 584
Delta R.T. 0.06 min
Lab File: VD061254.D
Acq: 22 Mar 2019 12:09

Tgt Ion: 117 Resp: 223416
Ion Ratio Lower Upper
117 100
119 90.0 77.8 116.8
121 29.2 25.3 37.9



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

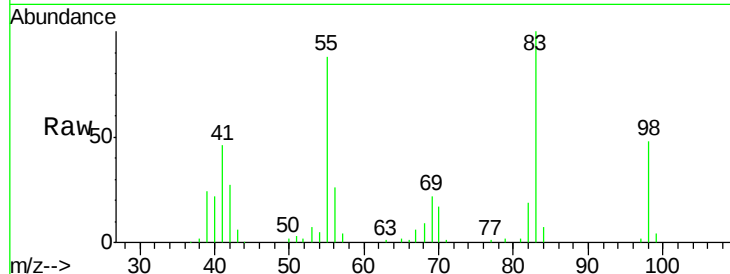




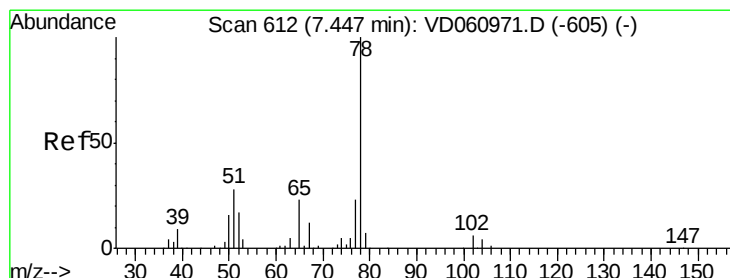
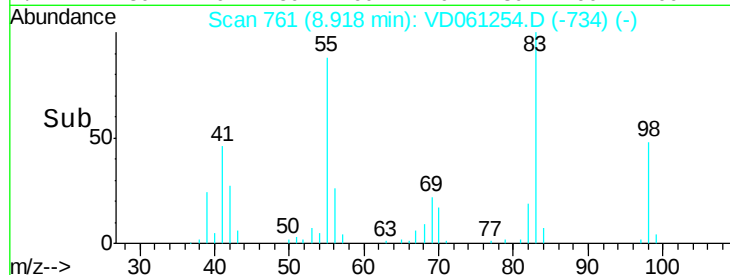
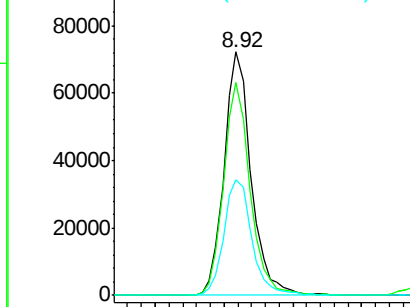
#39
Methvlcvclohexane
Concen: 20.241 ug/l
RT: 8.92 min Scan# 761
Delta R.T. 0.06 min
Lab File: VD061254.D
Acq: 22 Mar 2019 12:09

Instrument :
MSVOA_D
ClientSampleId :
VD0322SBS01

Tot Ion: 83 Resp: 196483
Ion Ratio Lower Upper
83 100
55 87.5 69.6 104.4
98 47.7 40.0 60.0

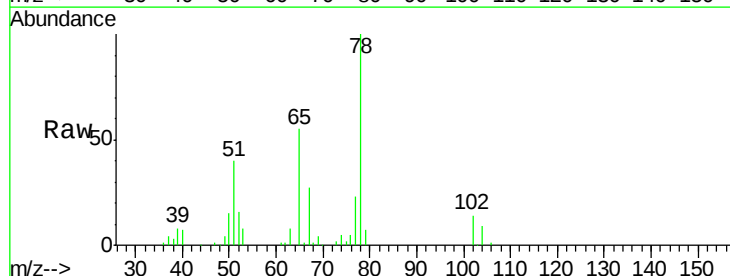


Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC

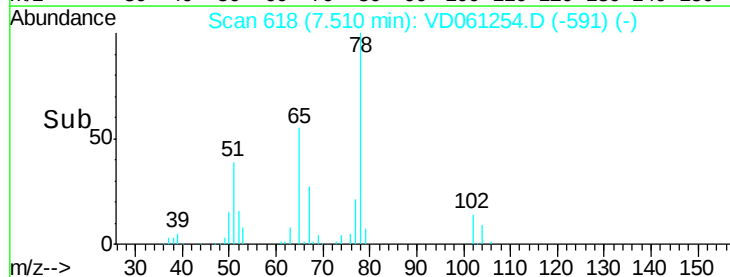
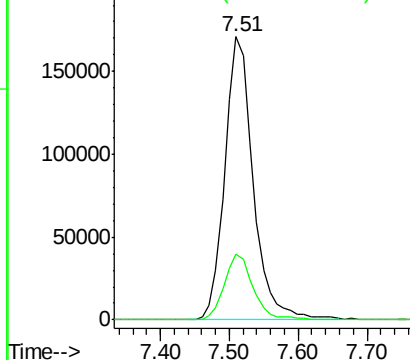


#40
Benzene
Concen: 20.857 ug/l
RT: 7.51 min Scan# 618
Delta R.T. 0.06 min
Lab File: VD061254.D
Acq: 22 Mar 2019 12:09

Tgt Ion: 78 Resp: 487886
Ion Ratio Lower Upper
78 100
77 23.3 18.8 28.2



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

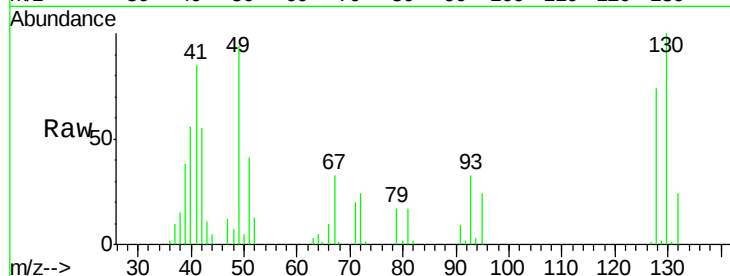




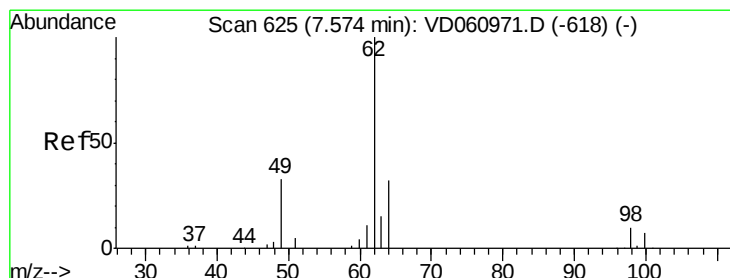
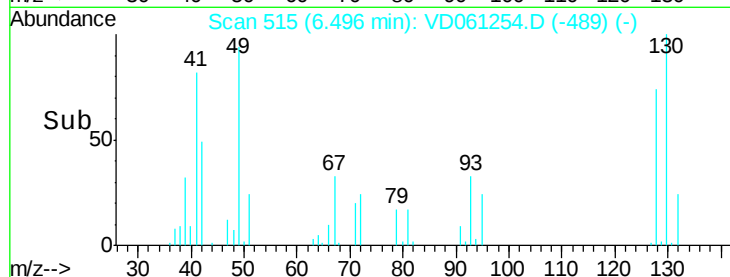
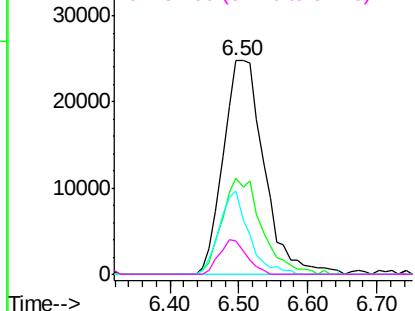
#41
Methacrylonitrile
Concen: 20.172 ug/l
RT: 6.50 min Scan# 515
Delta R.T. 0.05 min
Lab File: VD061254.D
Acq: 22 Mar 2019 12:09

Instrument :
MSVOA_D
ClientSampleId :
VD0322SBS01

Tot Ion: 41 Resp: 101928
Ion Ratio Lower Upper
41 100
39 44.7 35.7 53.5
67 38.8 23.0 34.6#
52 15.3 9.2 13.8#

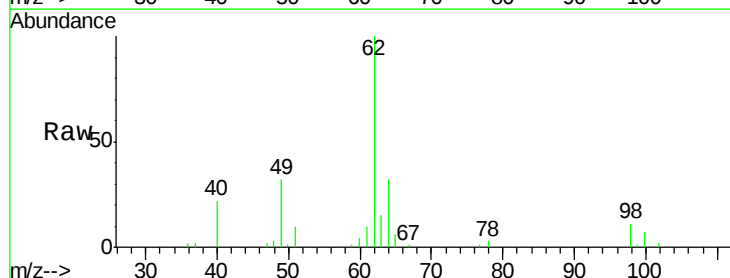


Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 38.95 (38.65 to 39.65): VDC
Ion 67.00 (66.70 to 67.70): VDC
Ion 52.00 (51.70 to 52.70): VDC

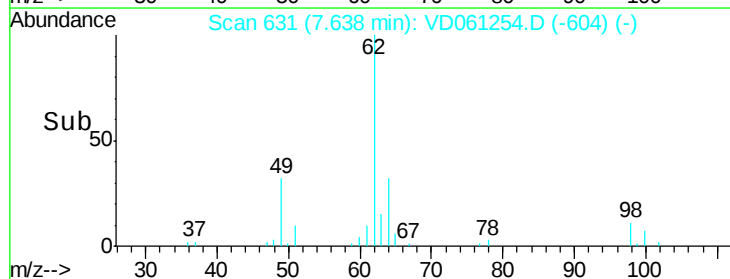
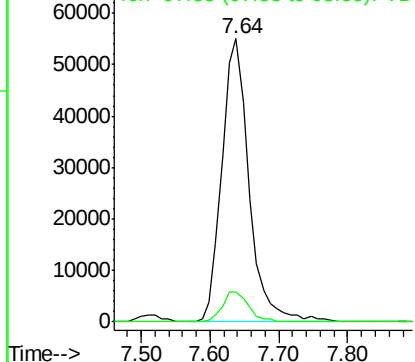


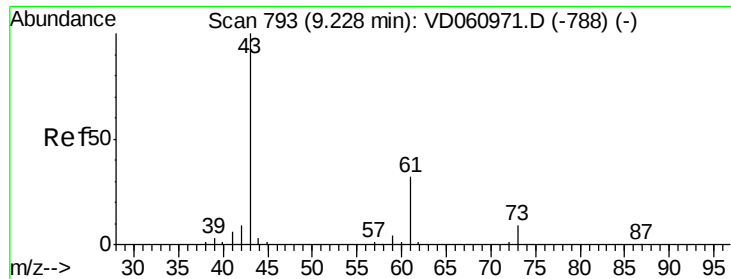
#42
1,2-Dichloroethane
Concen: 22.178 ug/l
RT: 7.64 min Scan# 631
Delta R.T. 0.06 min
Lab File: VD061254.D
Acq: 22 Mar 2019 12:09

Tgt Ion: 62 Resp: 150551
Ion Ratio Lower Upper
62 100
98 10.5 0.0 20.4



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



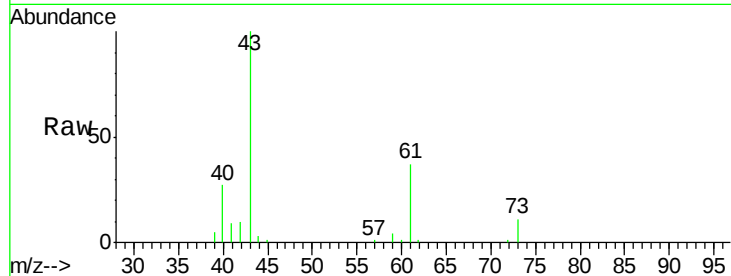


#43

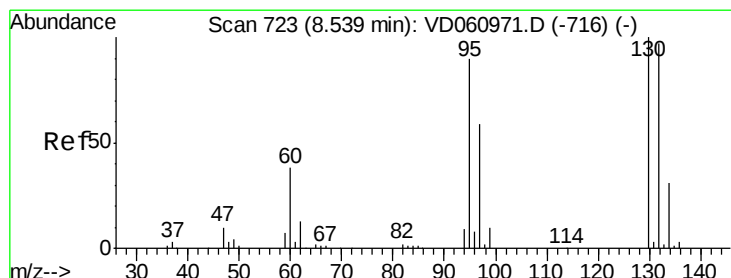
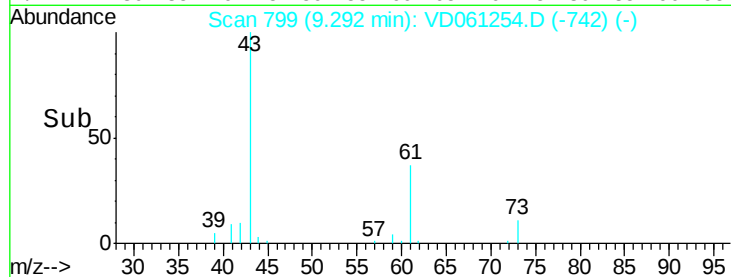
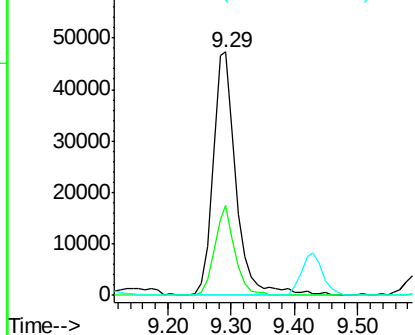
Isopropyl Acetate
 Concen: 19.927 ug/l
 RT: 9.29 min Scan# 799
 Delta R.T. 0.06 min
 Lab File: VD061254.D
 Acq: 22 Mar 2019 12:09

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0322SBS01

Tot Ion: 43 Resp: 121243
 Ion Ratio Lower Upper
 43 100
 61 37.1 25.6 38.4
 87 0.0 0.2 0.4#



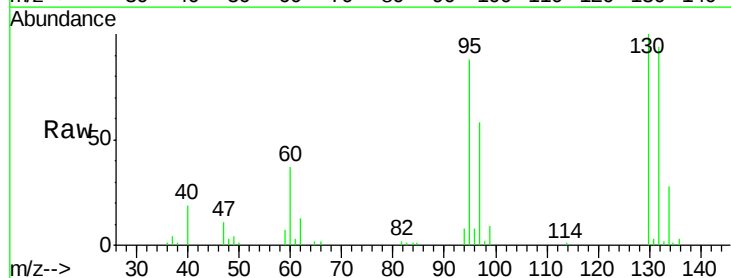
Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 87.00 (86.70 to 87.70): VDC



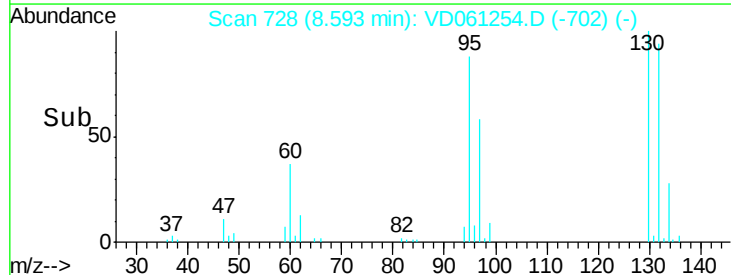
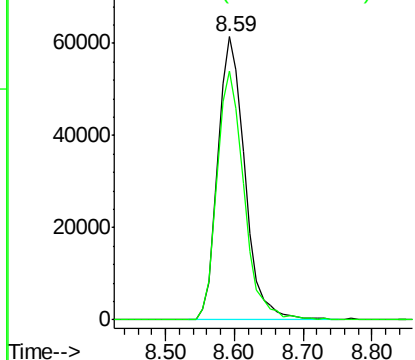
#44

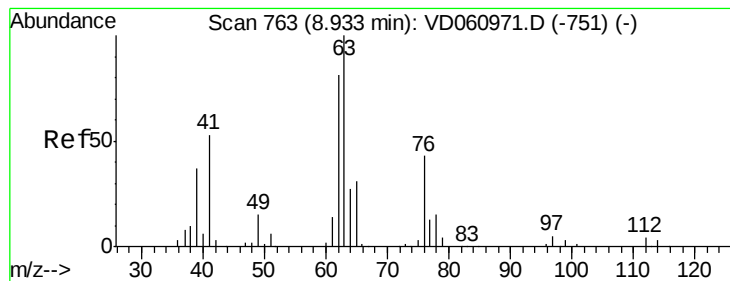
Trichloroethene
 Concen: 20.660 ug/l
 RT: 8.59 min Scan# 728
 Delta R.T. 0.05 min
 Lab File: VD061254.D
 Acq: 22 Mar 2019 12:09

Tgt Ion:130 Resp: 166729
 Ion Ratio Lower Upper
 130 100
 95 88.1 0.0 179.4



Abundance Ion 129.80 (129.50 to 130.50): VDC
 Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 19.877 ug/l

RT: 9.00 min Scan# 769

Delta R.T. 0.06 min

Lab File: VD061254.D

Acq: 22 Mar 2019 12:09

Instrument :

MSVOA_D

ClientSampleId :

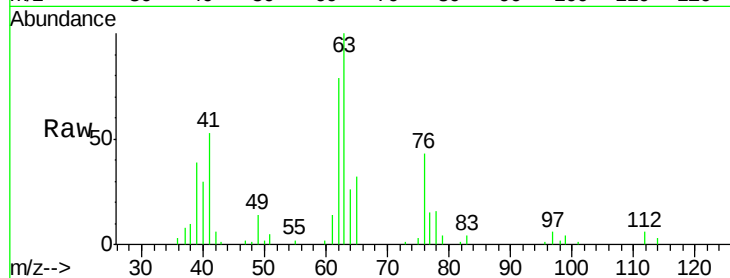
VD0322SBS01

Tot Ion: 63 Resp: 122155

Ion Ratio Lower Upper

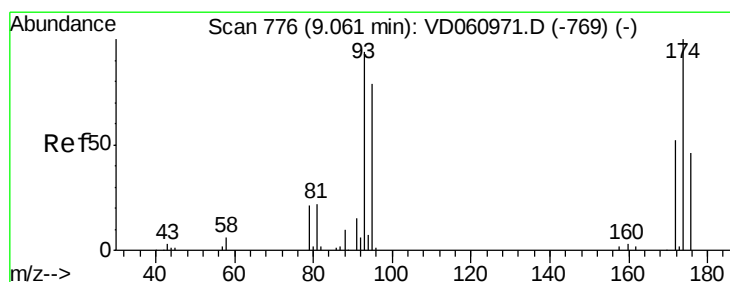
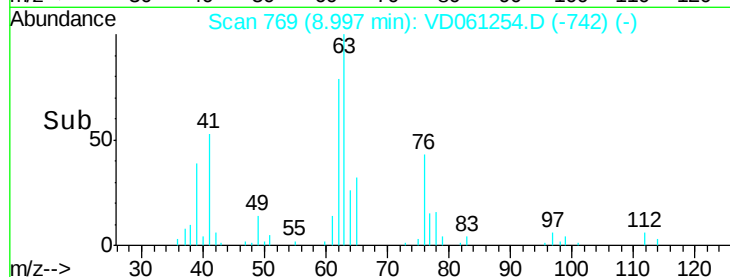
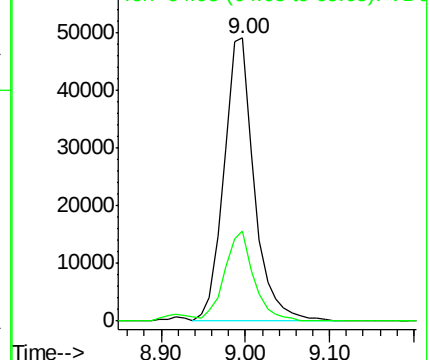
63 100

65 31.9 24.8 37.2



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 20.357 ug/l

RT: 9.11 min Scan# 781

Delta R.T. 0.05 min

Lab File: VD061254.D

Acq: 22 Mar 2019 12:09

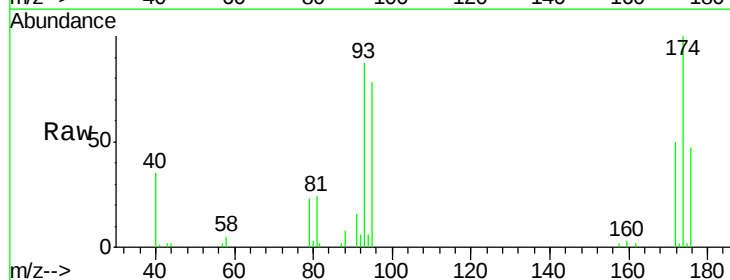
Tgt Ion: 93 Resp: 79356

Ion Ratio Lower Upper

93 100

95 89.5 67.4 101.0

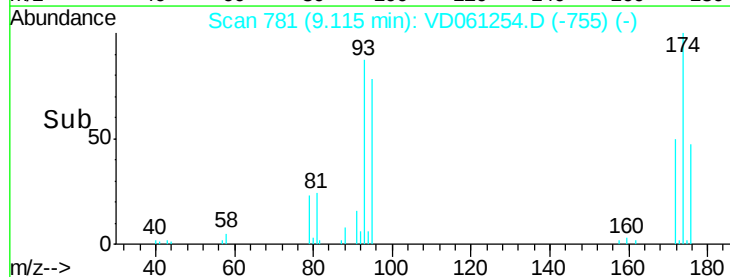
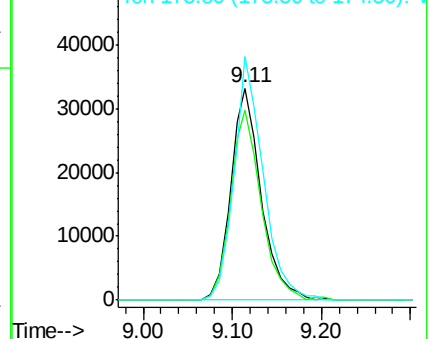
174 115.0 85.4 128.0



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: 21.707 ug/l

RT: 9.43 min Scan# 813

Delta R.T. 0.06 min

Lab File: VD061254.D

Acq: 22 Mar 2019 12:09

Instrument :

MSVOA_D

ClientSampleId :

VD0322SBS01

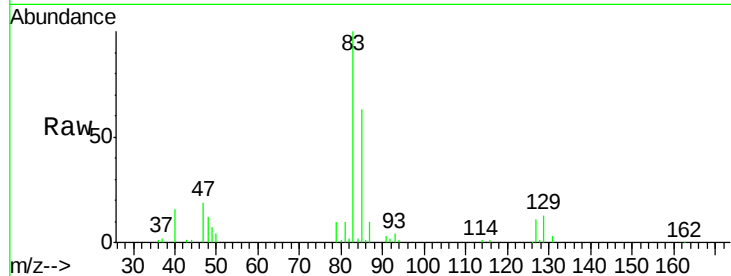
Tot Ion: 83 Resp: 190952

Ion Ratio Lower Upper

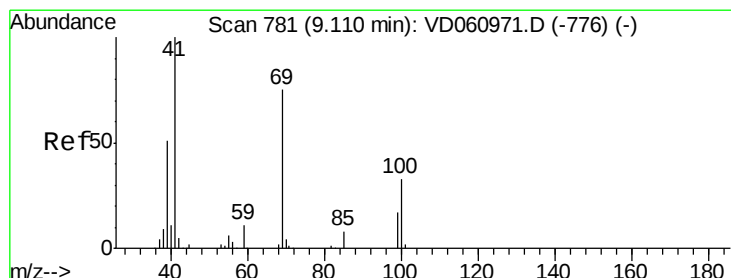
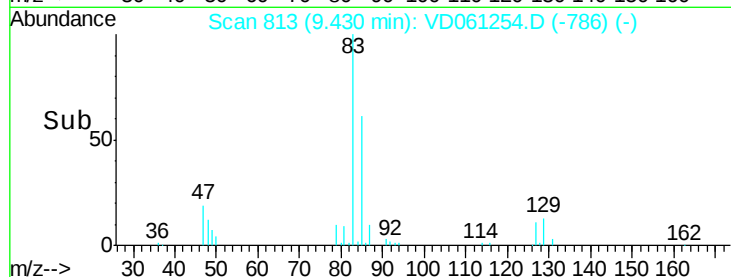
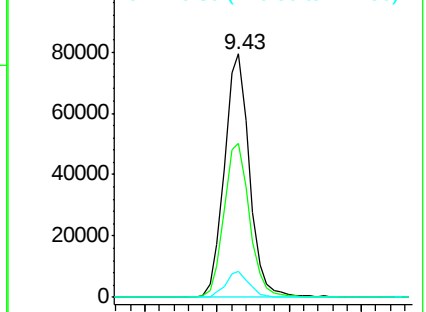
83 100

85 63.1 52.5 78.7

127 10.8 7.5 11.3



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



#48

Methyl methacrylate

Concen: 21.046 ug/l

RT: 9.17 min Scan# 787

Delta R.T. 0.06 min

Lab File: VD061254.D

Acq: 22 Mar 2019 12:09

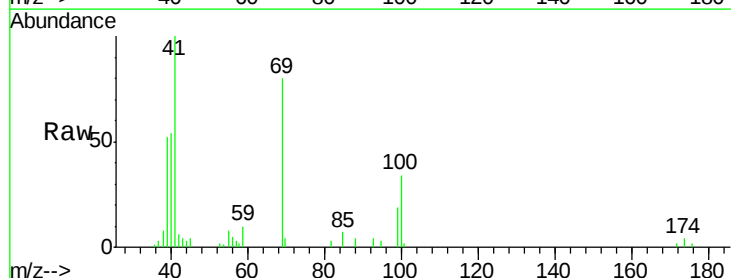
Tgt Ion: 41 Resp: 72099

Ion Ratio Lower Upper

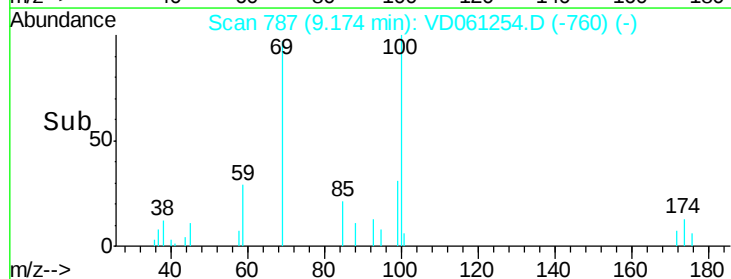
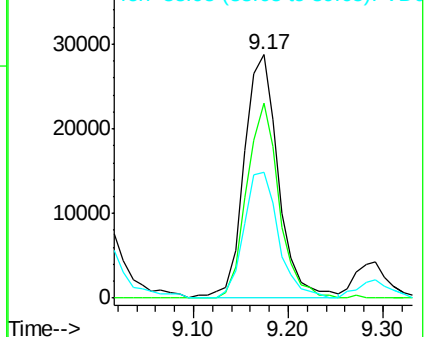
41 100

69 79.9 59.9 89.9

39 51.6 40.9 61.3



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

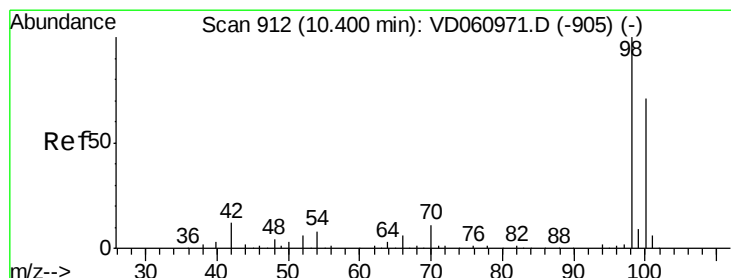
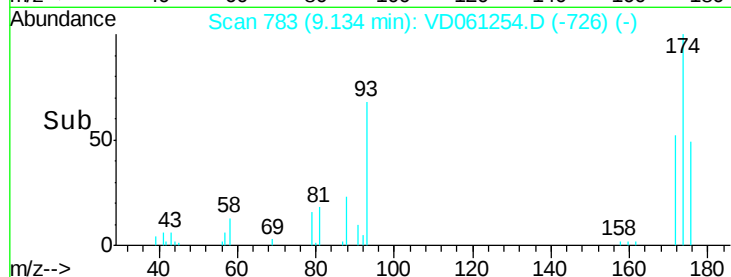
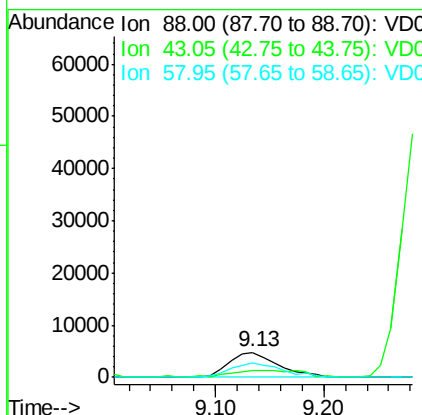
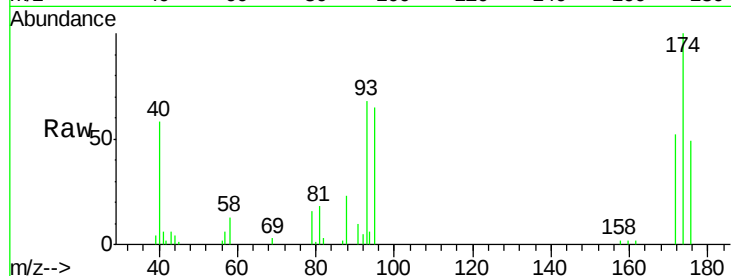




#49
1,4-Dioxane
Concen: 428.745 ug/l
RT: 9.13 min Scan# 783
Delta R.T. 0.06 min
Lab File: VD061254.D
Acq: 22 Mar 2019 12:09

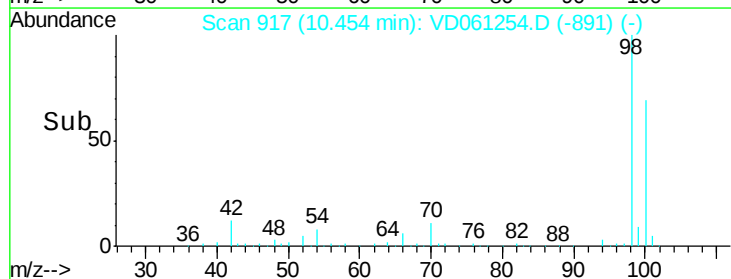
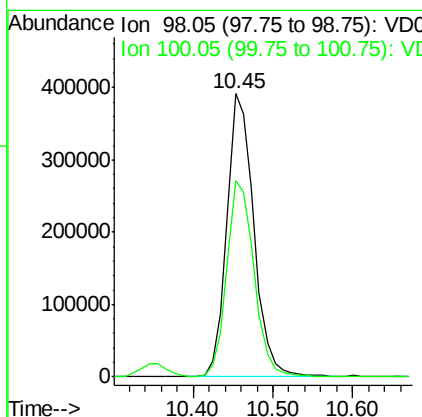
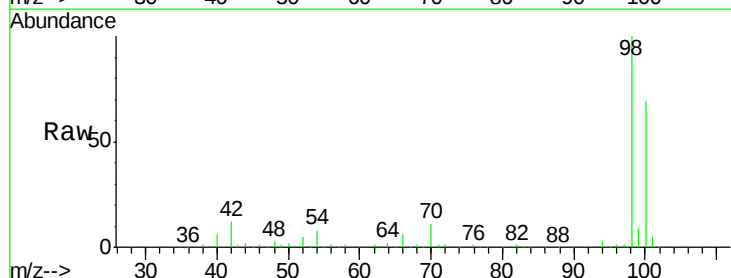
Instrument :
MSVOA_D
ClientSampleId :
VD0322SBS01

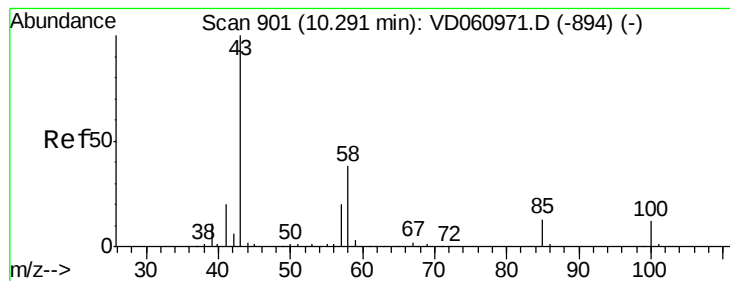
Tot Ion: 88 Resp: 14852
Ion Ratio Lower Upper
88 100
43 26.2 21.0 31.6
58 57.5 48.6 72.8



#50
Toluene-d8
Concen: 428.745 ug/l
RT: 10.45 min Scan# 917
Delta R.T. 0.05 min
Lab File: VD061254.D
Acq: 22 Mar 2019 12:09

Tgt Ion: 98 Resp: 932042
Ion Ratio Lower Upper
98 100
100 69.3 57.4 86.2





#51

4-Methyl-2-Pentanone

Concen: 97.940 ug/l

RT: 10.35 min Scan# 906

Delta R.T. 0.05 min

Lab File: VD061254.D

Acq: 22 Mar 2019 12:09

Instrument :

MSVOA_D

ClientSampleId :

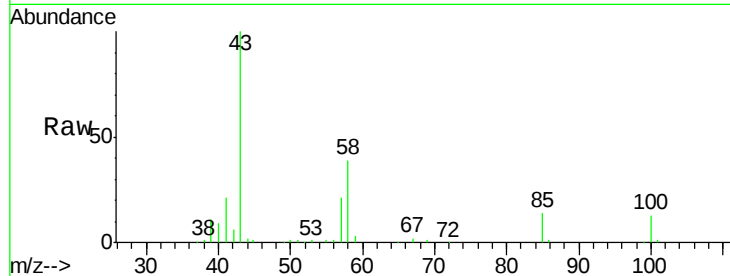
VD0322SBS01

Tot Ion: 43 Resp: 365072

Ion Ratio Lower Upper

43 100

58 39.1 30.2 45.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

10.35

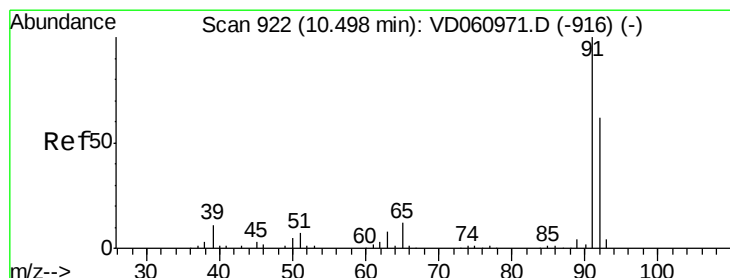
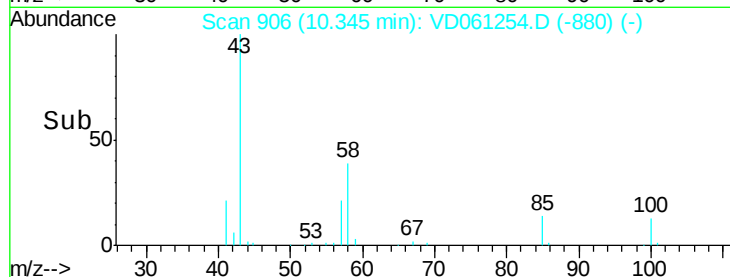
150000

100000

50000

0

Time--> 10.20 10.30 10.40



#52

Toluene

Concen: 20.598 ug/l

RT: 10.56 min Scan# 928

Delta R.T. 0.06 min

Lab File: VD061254.D

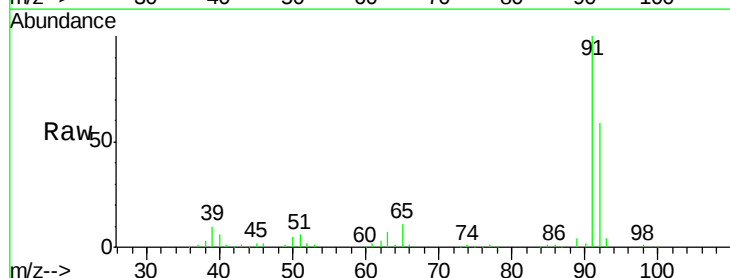
Acq: 22 Mar 2019 12:09

Tgt Ion: 92 Resp: 299612

Ion Ratio Lower Upper

92 100

91 168.5 129.8 194.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

10.56

200000

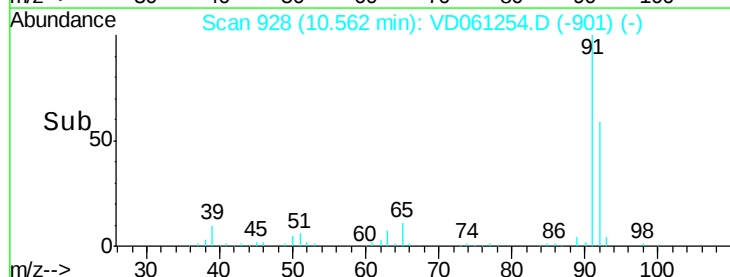
150000

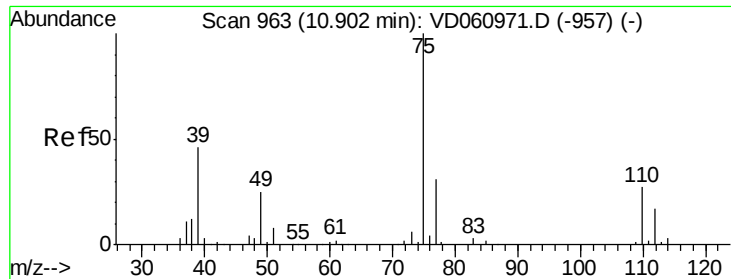
100000

50000

0

Time--> 10.40 10.50 10.60 10.70

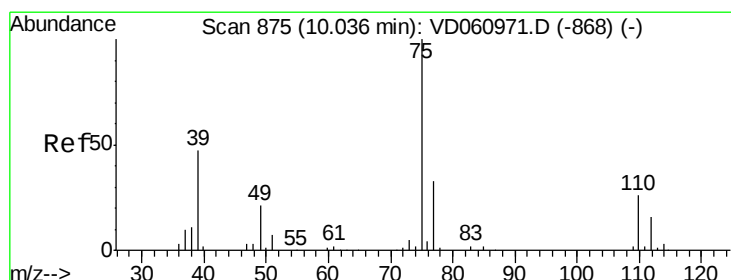
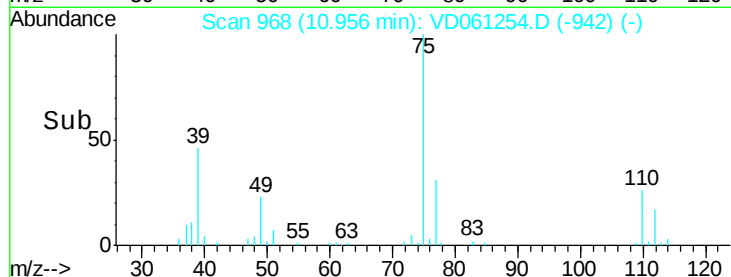
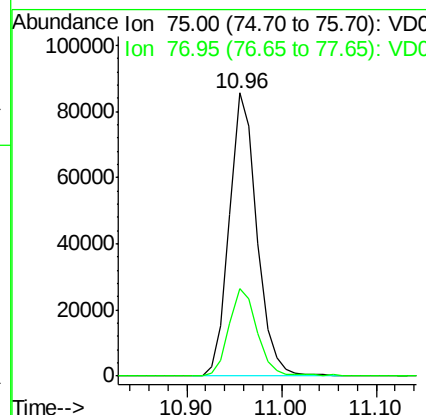
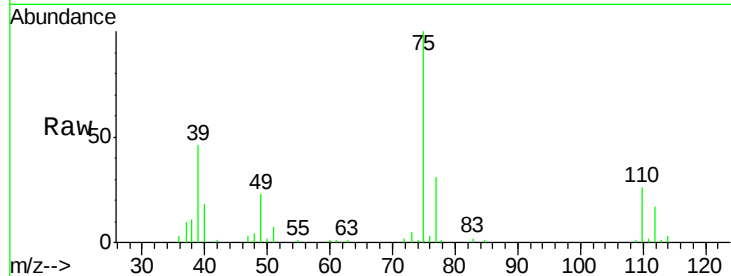




#53
 t-1,3-Dichloropropene
 Concen: 21.508 ug/l
 RT: 10.96 min Scan# 968
 Delta R.T. 0.05 min
 Lab File: VD061254.D
 Acq: 22 Mar 2019 12:09

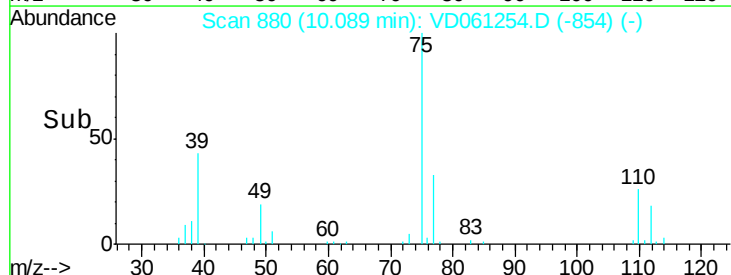
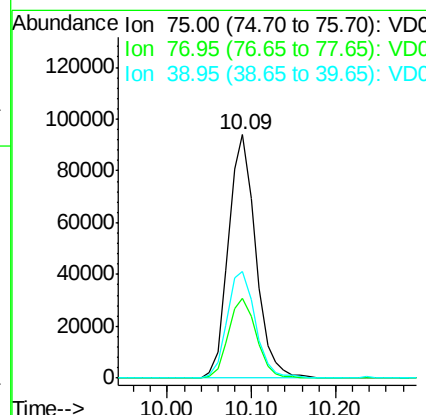
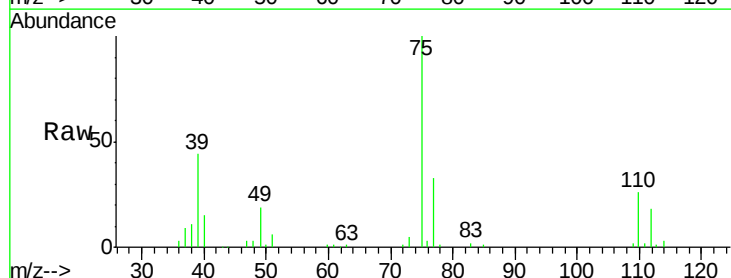
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0322SBS01

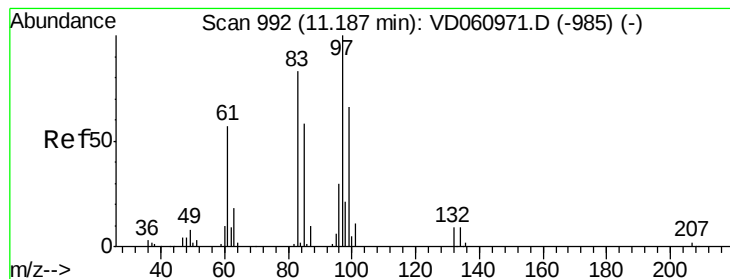
Tot Ion: 75 Resp: 173004
 Ion Ratio Lower Upper
 75 100
 77 30.8 24.7 37.1



#54
 cis-1,3-Dichloropropene
 Concen: 21.840 ug/l
 RT: 10.09 min Scan# 880
 Delta R.T. 0.05 min
 Lab File: VD061254.D
 Acq: 22 Mar 2019 12:09

Tgt Ion: 75 Resp: 211077
 Ion Ratio Lower Upper
 75 100
 77 32.6 26.2 39.4
 39 43.8 37.8 56.8





#55

1,1,2-Trichloroethane

Concen: 20.376 ug/l

RT: 11.24 min Scan# 997

Delta R.T. 0.05 min

Lab File: VD061254.D

Acq: 22 Mar 2019 12:09

Instrument :

MSVOA_D

ClientSampleId :

VD0322SBS01

Tot Ion: 97 Resp: 98703

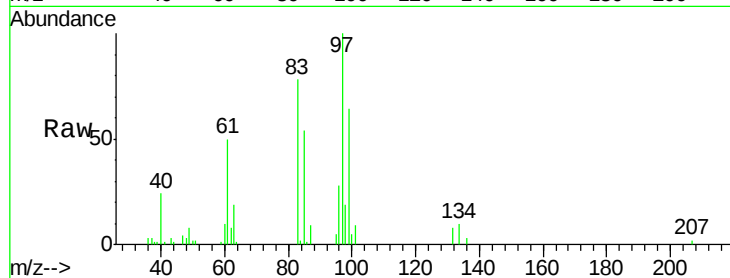
Ion Ratio Lower Upper

97 100

83 78.3 66.6 100.0

85 54.4 46.4 69.6

99 64.2 52.4 78.6

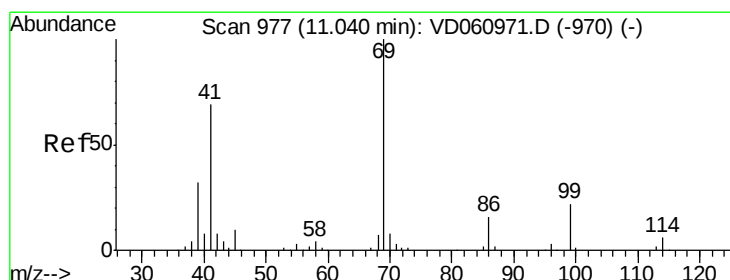
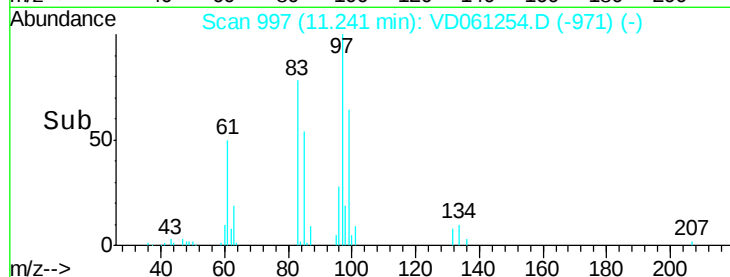
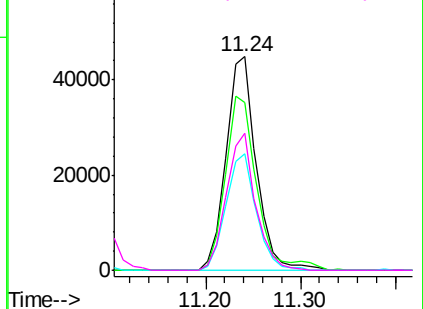


Abundance Ion 96.85 (96.55 to 97.55): VDC

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: 20.923 ug/l

RT: 11.08 min Scan# 981

Delta R.T. 0.04 min

Lab File: VD061254.D

Acq: 22 Mar 2019 12:09

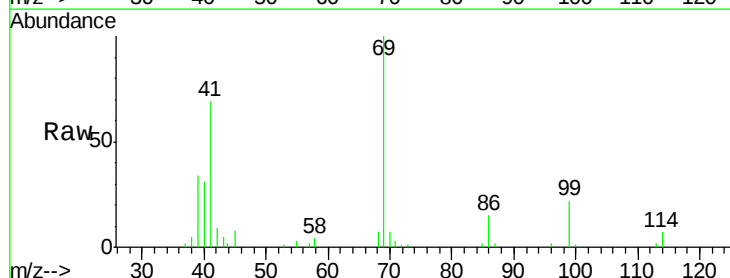
Tgt Ion: 69 Resp: 106090

Ion Ratio Lower Upper

69 100

41 69.2 55.5 83.3

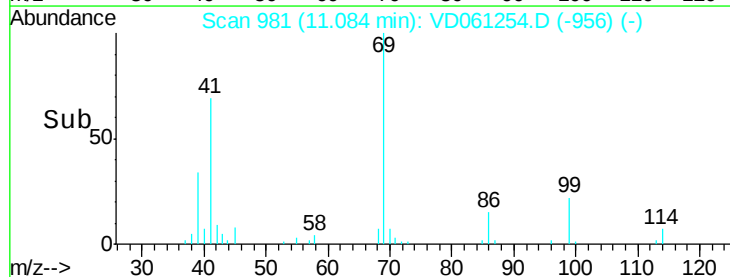
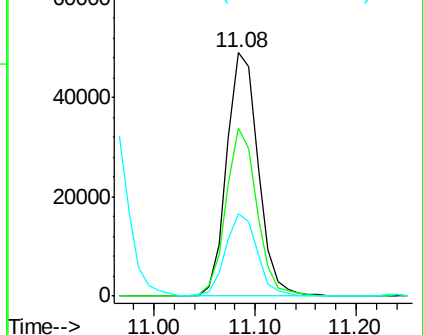
39 33.8 26.2 39.2

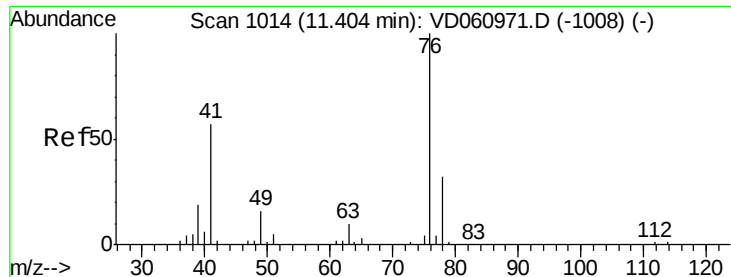


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

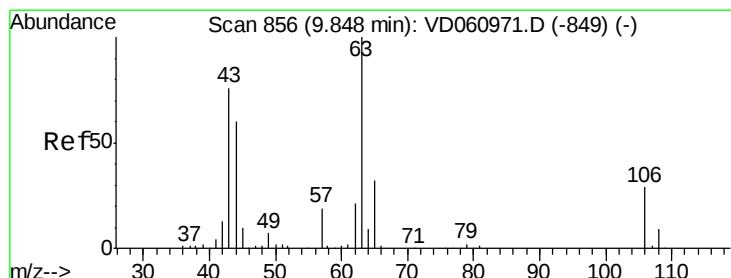
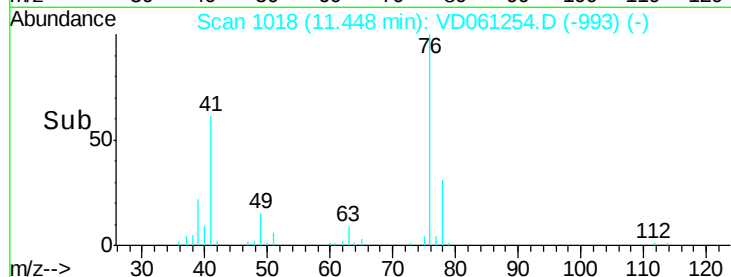
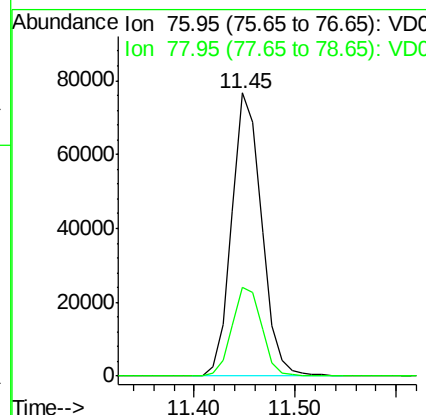
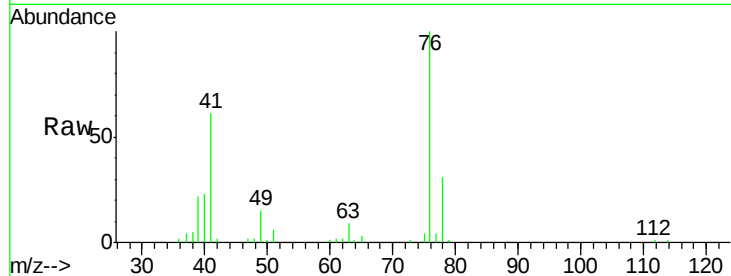




#57
 1,3-Dichloropropane
 Concen: 21.709 ug/l
 RT: 11.45 min Scan# 1018
 Delta R.T. 0.04 min
 Lab File: VD061254.D
 Acq: 22 Mar 2019 12:09

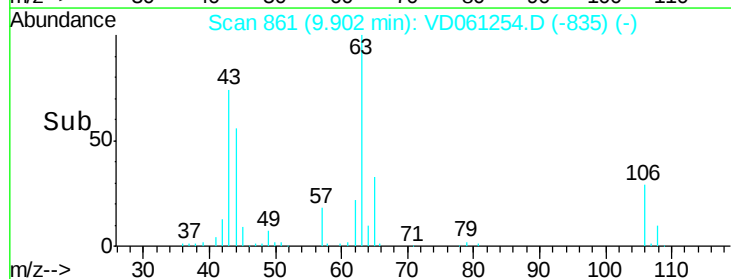
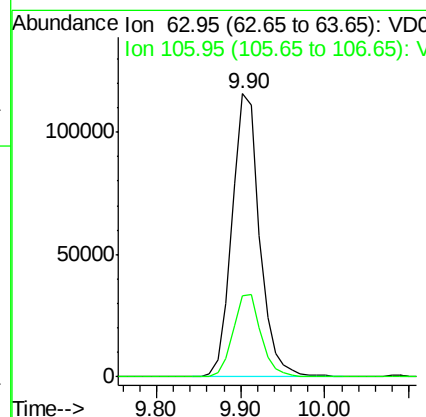
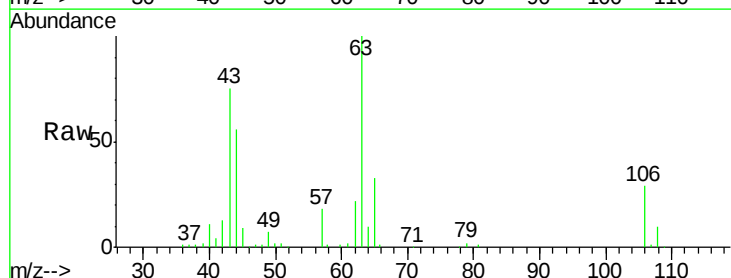
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0322SBS01

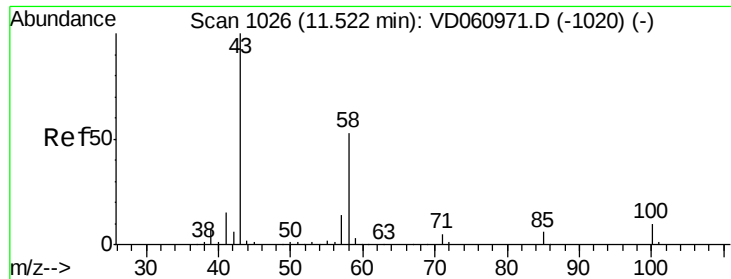
Tot Ion: 76 Resp: 157149
 Ion Ratio Lower Upper
 76 100
 78 31.4 25.4 38.0



#58
 2-Chloroethyl Vinyl ether
 Concen: 98.371 ug/l
 RT: 9.90 min Scan# 861
 Delta R.T. 0.05 min
 Lab File: VD061254.D
 Acq: 22 Mar 2019 12:09

Tgt Ion: 63 Resp: 264016
 Ion Ratio Lower Upper
 63 100
 106 28.9 22.8 34.2

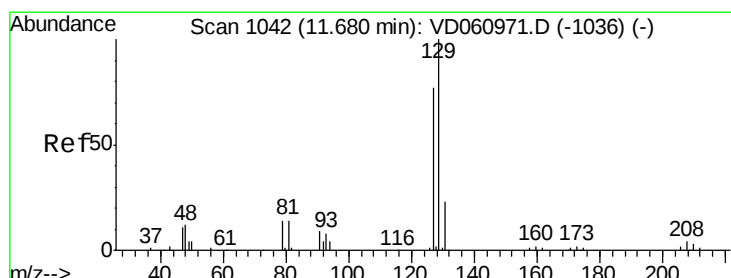
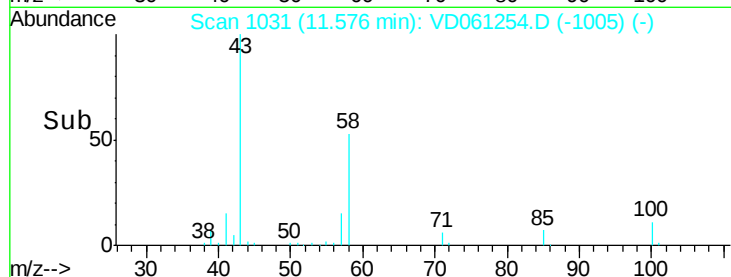
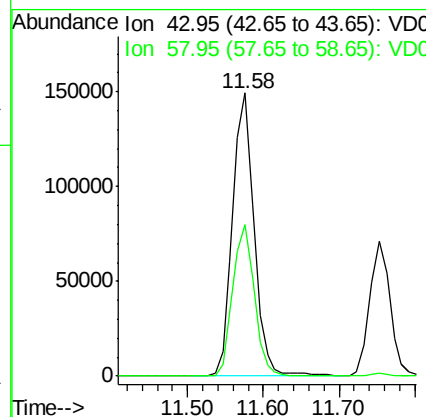
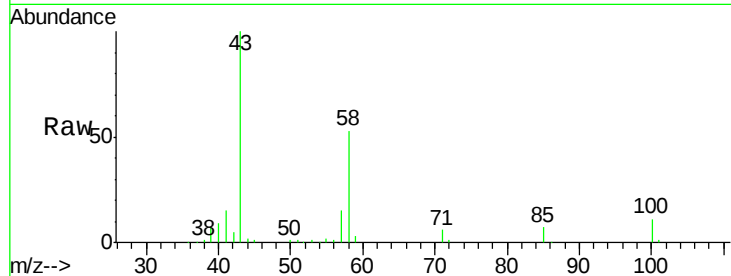




#59
2-Hexanone
Concen: 107.837 ug/l
RT: 11.58 min Scan# 1031
Delta R.T. 0.05 min
Lab File: VD061254.D
Acq: 22 Mar 2019 12:09

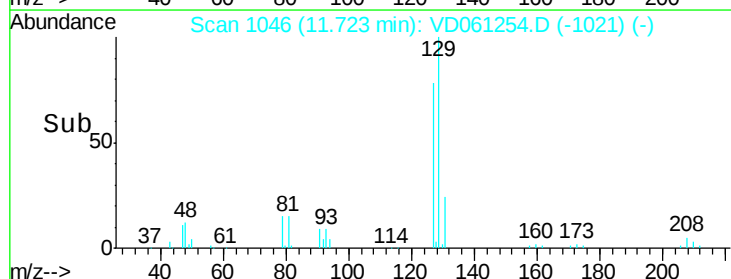
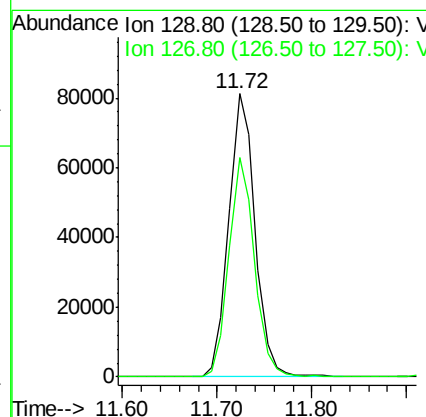
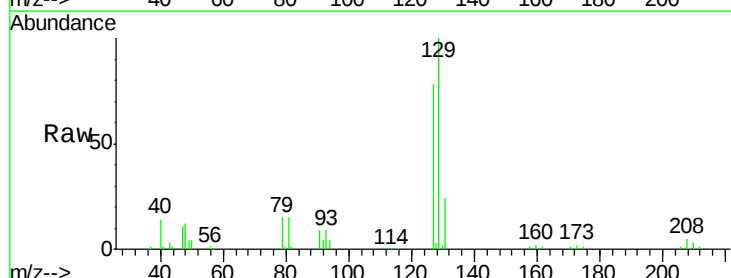
Instrument :
MSVOA_D
ClientSampleId :
VD0322SBS01

Tot Ion: 43 Resp: 294033
Ion Ratio Lower Upper
43 100
58 53.3 26.5 79.5



#60
Dibromochloromethane
Concen: 21.895 ug/l
RT: 11.72 min Scan# 1046
Delta R.T. 0.04 min
Lab File: VD061254.D
Acq: 22 Mar 2019 12:09

Tgt Ion:129 Resp: 156090
Ion Ratio Lower Upper
129 100
127 77.7 38.3 114.9

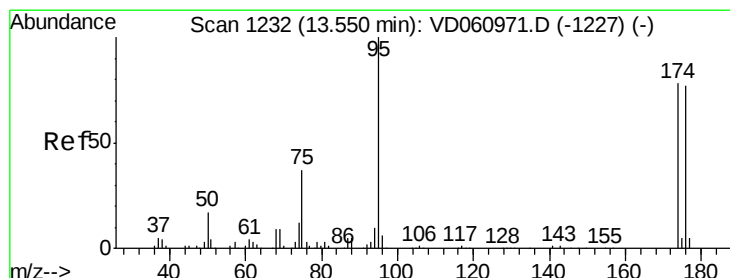
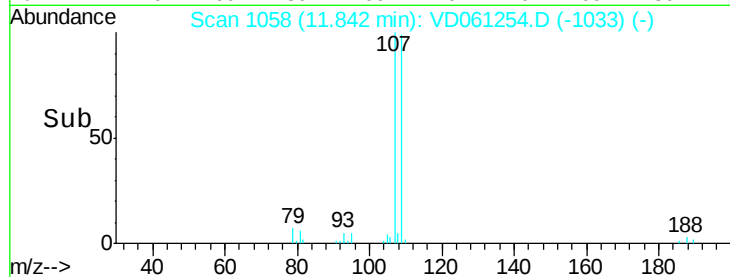
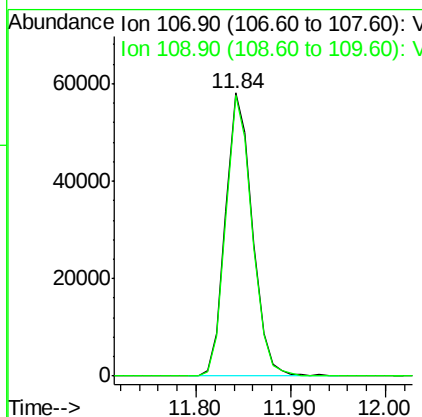
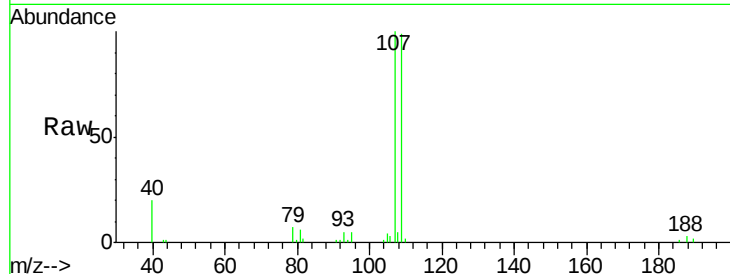




#61
 1,2-Dibromoethane
 Concen: 20.144 ug/l
 RT: 11.84 min Scan# 1058
 Delta R.T. 0.04 min
 Lab File: VD061254.D
 Acq: 22 Mar 2019 12:09

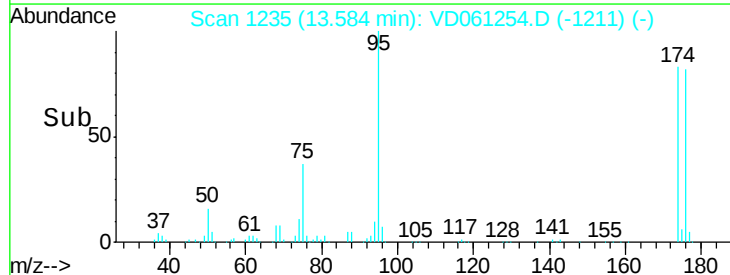
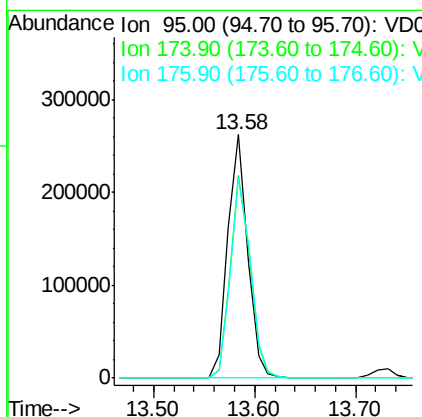
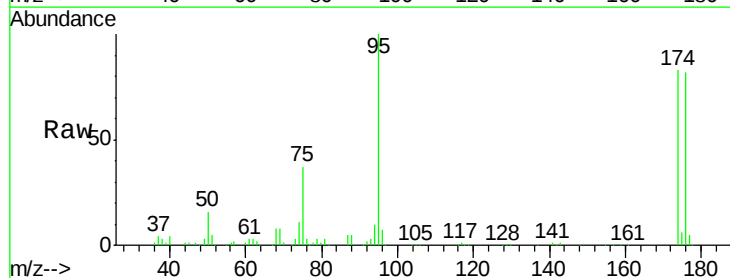
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0322SBS01

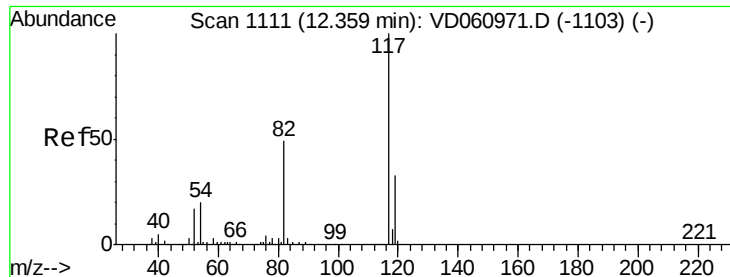
Tot Ion:107 Resp: 113515
 Ion Ratio Lower Upper
 107 100
 109 99.1 75.6 113.4



#62
 4-Bromofluorobenzene
 Concen: 20.144 ug/l
 RT: 13.58 min Scan# 1235
 Delta R.T. 0.03 min
 Lab File: VD061254.D
 Acq: 22 Mar 2019 12:09

Tgt Ion: 95 Resp: 357304
 Ion Ratio Lower Upper
 95 100
 174 83.0 0.0 155.6
 176 82.3 0.0 153.8

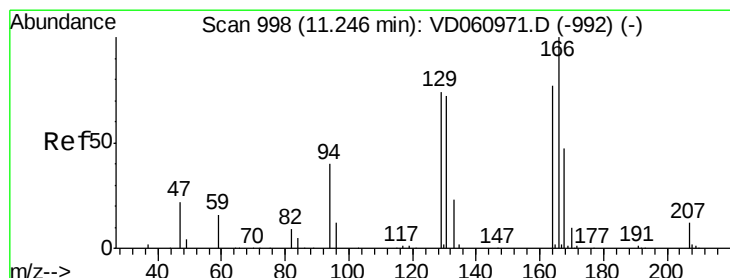
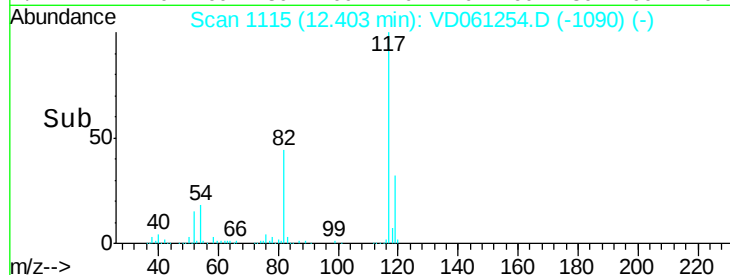
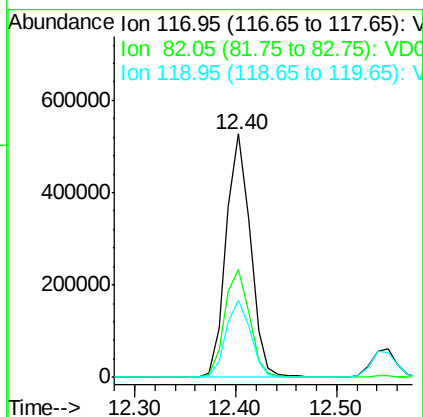
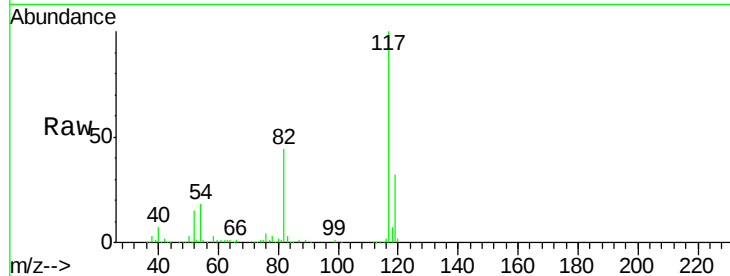




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.40 min Scan# 1115
Delta R.T. 0.04 min
Lab File: VD061254.D
Acq: 22 Mar 2019 12:09

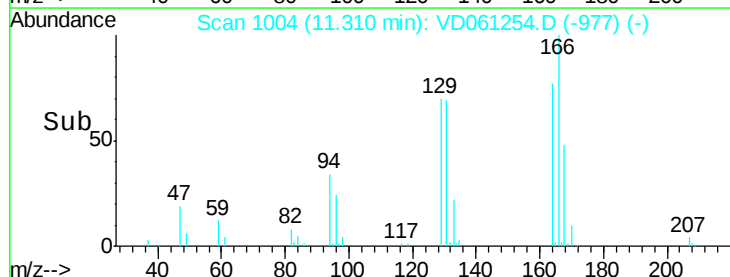
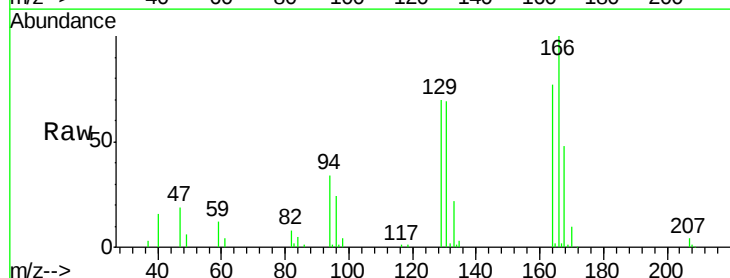
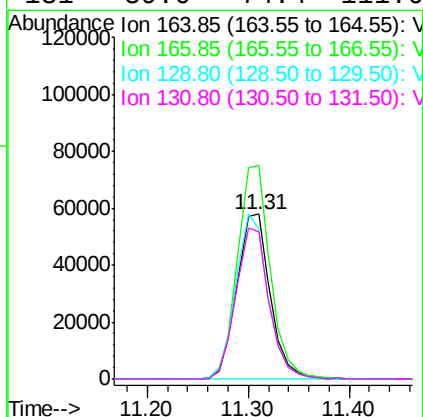
Instrument :
MSVOA_D
ClientSampleId :
VD0322SBS01

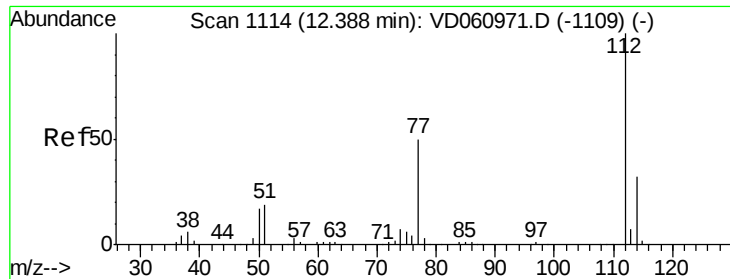
Tot Ion:117 Resp: 884500
Ion Ratio Lower Upper
117 100
82 44.3 38.9 58.3
119 31.7 26.6 39.8



#64
Tetrachloroethene
Concen: 22.282 ug/l
RT: 11.31 min Scan# 1004
Delta R.T. 0.06 min
Lab File: VD061254.D
Acq: 22 Mar 2019 12:09

Tgt Ion:164 Resp: 133042
Ion Ratio Lower Upper
164 100
166 129.6 103.4 155.0
129 91.0 76.9 115.3
131 89.6 74.4 111.6





#65

Chlorobenzene

Concen: 21.778 ug/l

RT: 12.43 min Scan# 1118

Delta R.T. 0.04 min

Lab File: VD061254.D

Acq: 22 Mar 2019 12:09

Instrument :

MSVOA_D

ClientSampleId :

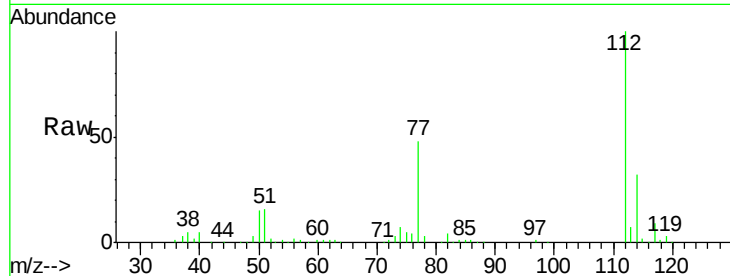
VD0322SBS01

Tot Ion:112 Resp: 377623

Ion Ratio Lower Upper

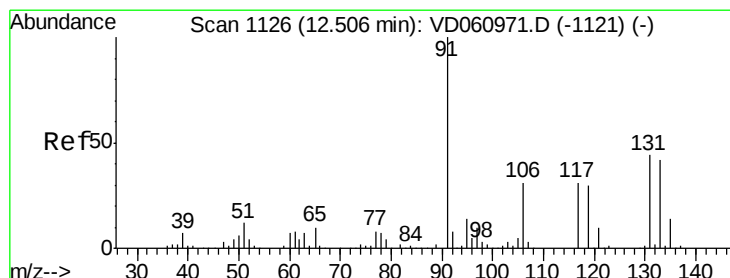
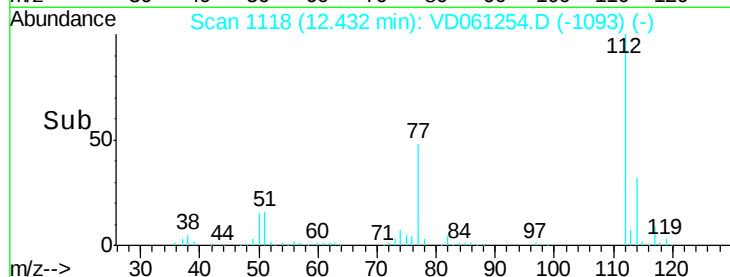
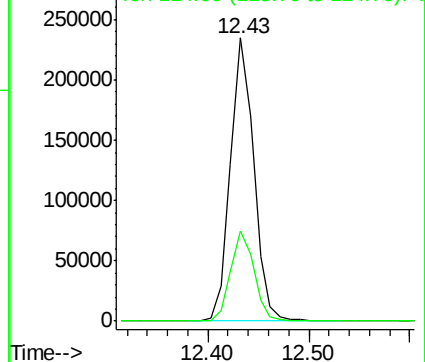
112 100

114 31.9 26.0 39.0



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 23.467 ug/l

RT: 12.55 min Scan# 1130

Delta R.T. 0.04 min

Lab File: VD061254.D

Acq: 22 Mar 2019 12:09

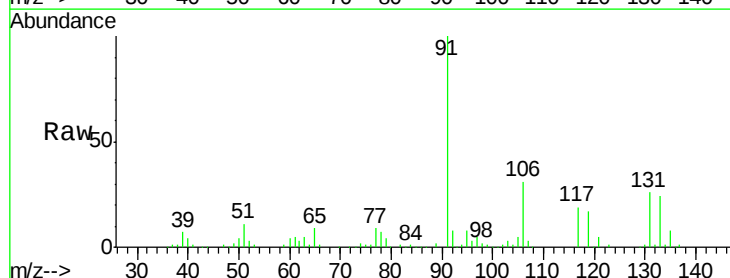
Tgt Ion:131 Resp: 145045

Ion Ratio Lower Upper

131 100

133 93.7 47.8 143.3

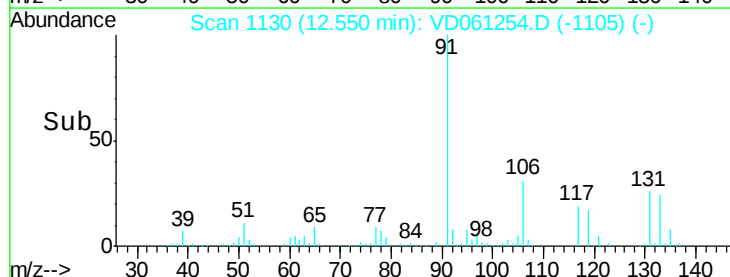
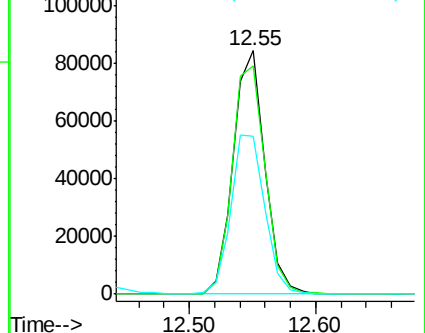
119 64.9 34.3 102.9



Abundance Ion 130.90 (130.60 to 131.60): V

Ion 132.90 (132.60 to 133.60): V

Ion 118.85 (118.55 to 119.55): V

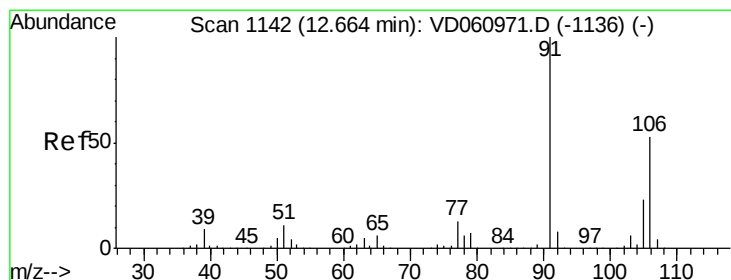
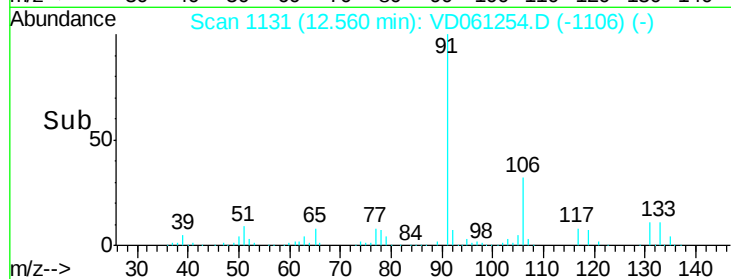
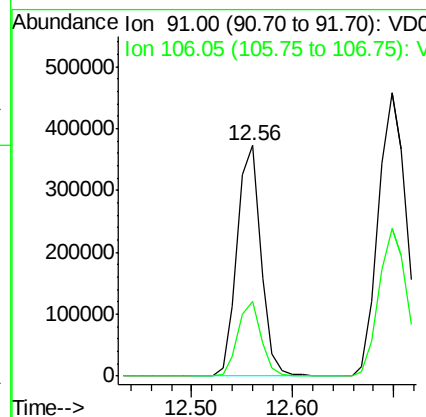
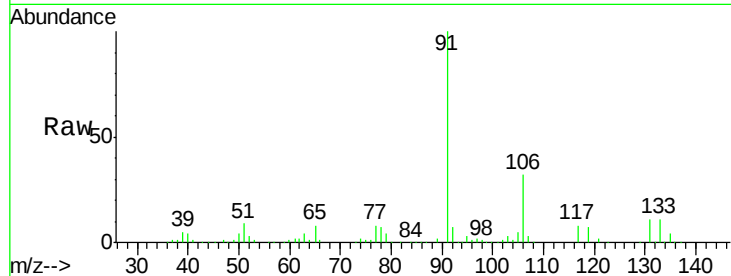




#67
Ethyl Benzene
Concen: 23.633 ug/l
RT: 12.56 min Scan# 1131
Delta R.T. 0.04 min
Lab File: VD061254.D
Acq: 22 Mar 2019 12:09

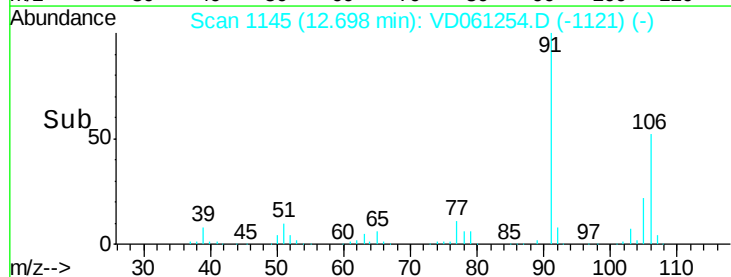
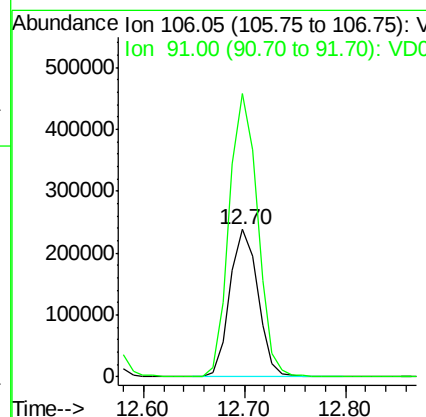
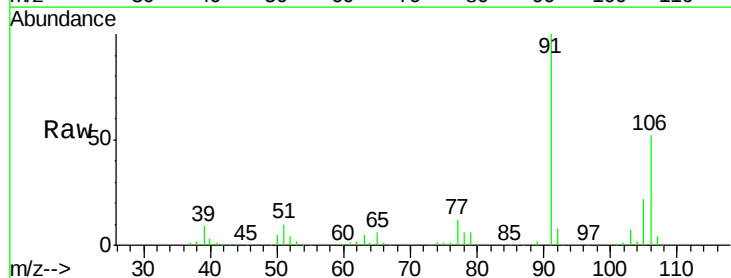
Instrument :
MSVOA_D
ClientSampleId :
VD0322SBS01

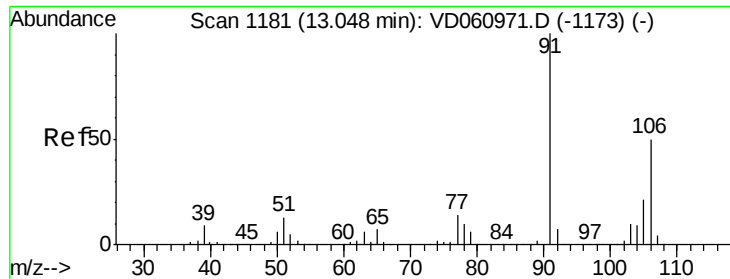
Tot Ion: 91 Resp: 610080
Ion Ratio Lower Upper
91 100
106 32.5 25.7 38.5



#68
m/p-Xylenes
Concen: 45.689 ug/l
RT: 12.70 min Scan# 1145
Delta R.T. 0.03 min
Lab File: VD061254.D
Acq: 22 Mar 2019 12:09

Tgt Ion: 106 Resp: 462928
Ion Ratio Lower Upper
106 100
91 192.4 152.0 228.0

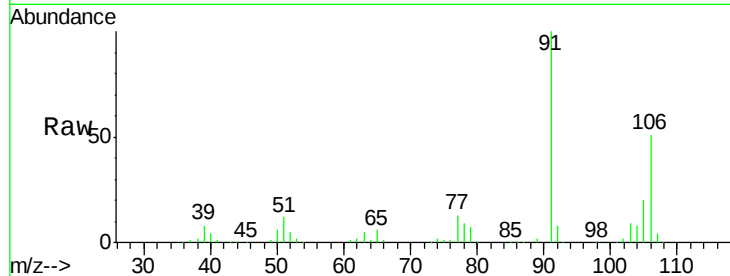




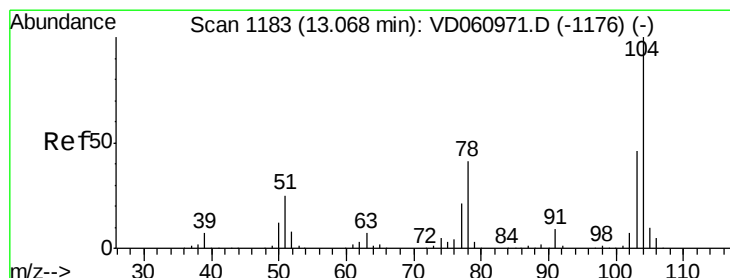
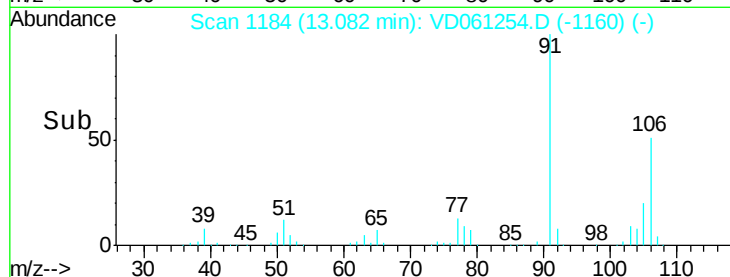
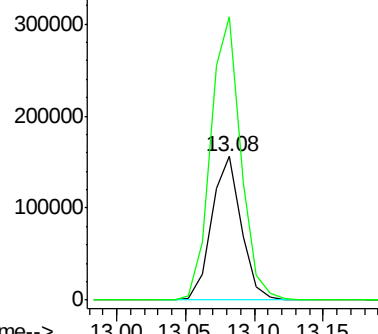
#69
o-Xylene
Concen: 23.390 ug/l
RT: 13.08 min Scan# 1184
Delta R.T. 0.03 min
Lab File: VD061254.D
Acq: 22 Mar 2019 12:09

Instrument :
MSVOA_D
ClientSampleId :
VD0322SBS01

Tot Ion:106 Resp: 232953
Ion Ratio Lower Upper
106 100
91 197.0 99.8 299.3

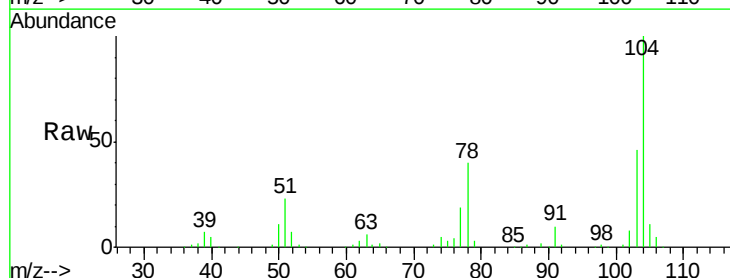


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

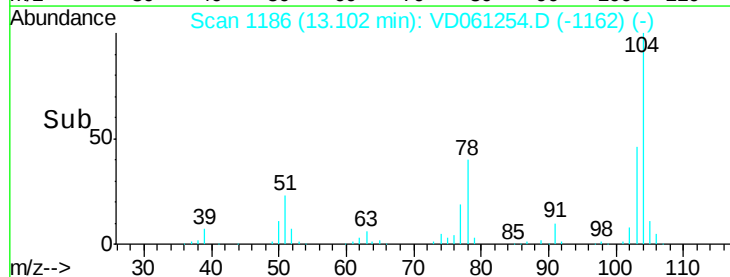
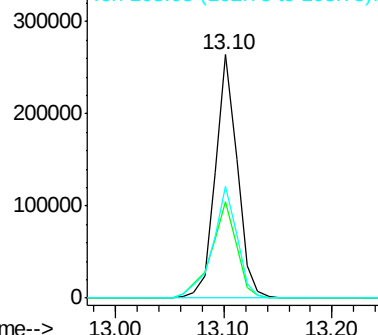


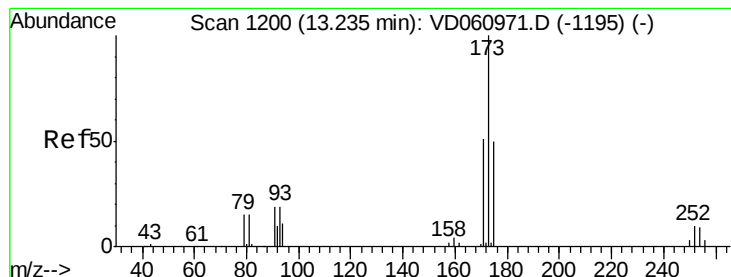
#70
Styrene
Concen: 22.834 ug/l
RT: 13.10 min Scan# 1186
Delta R.T. 0.03 min
Lab File: VD061254.D
Acq: 22 Mar 2019 12:09

Tgt Ion:104 Resp: 371355
Ion Ratio Lower Upper
104 100
78 39.6 33.0 49.4
103 45.7 37.1 55.7



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





#71

Bromoform

Concen: 22.586 ug/l

RT: 13.27 min Scan# 1203

Delta R.T. 0.03 min

Lab File: VD061254.D

Acq: 22 Mar 2019 12:09

Instrument :

MSVOA_D

ClientSampleId :

VD0322SBS01

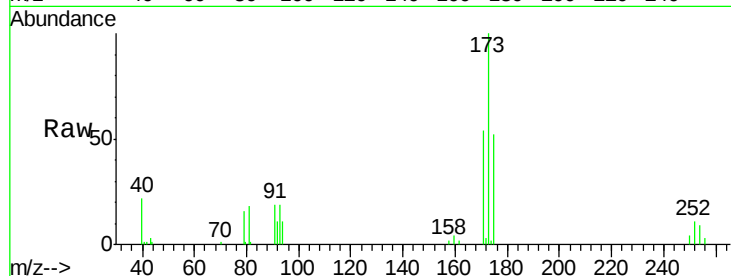
Tot Ion:173 Resp: 90056

Ion Ratio Lower Upper

173 100

175 51.9 24.9 74.8

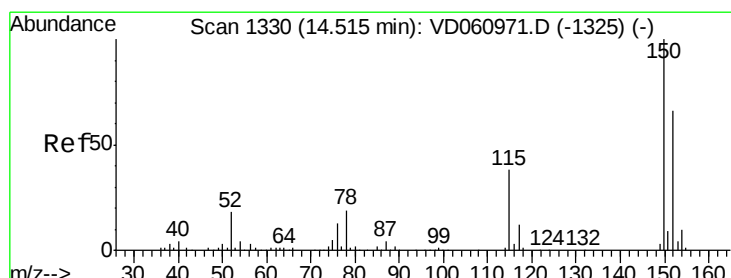
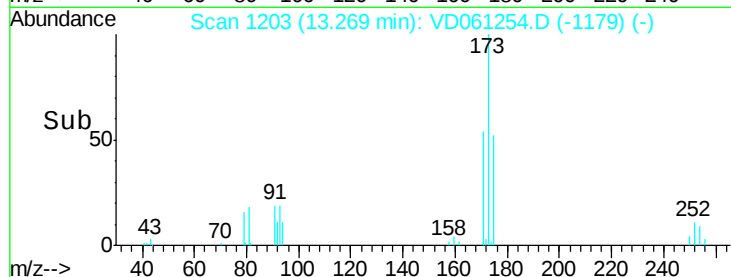
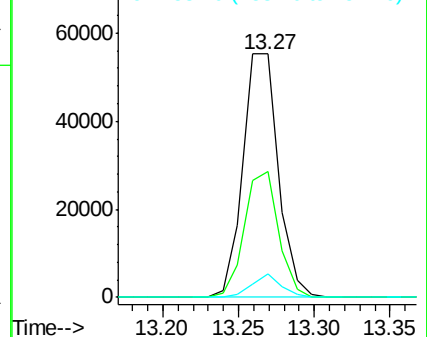
254 9.5 7.3 10.9



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: 14.55 min Scan# 1333

Delta R.T. 0.03 min

Lab File: VD061254.D

Acq: 22 Mar 2019 12:09

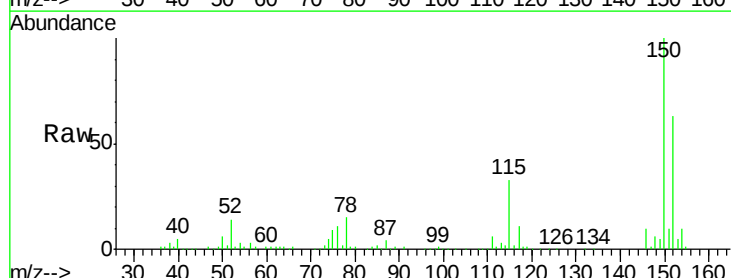
Tgt Ion:152 Resp: 334467

Ion Ratio Lower Upper

152 100

115 51.9 28.6 85.9

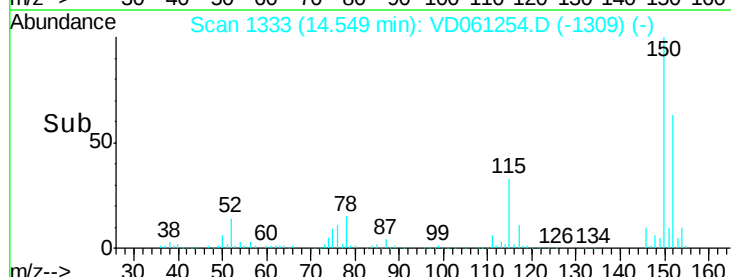
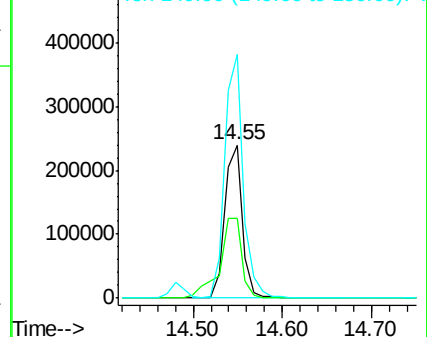
150 159.0 0.0 310.6

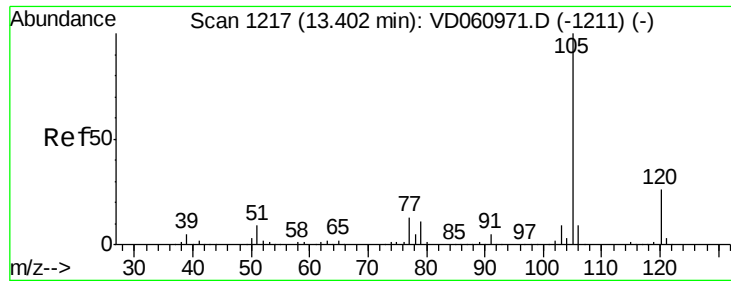


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 23.720 ug/l

RT: 13.43 min Scan# 1219

Delta R.T. 0.02 min

Lab File: VD061254.D

Acq: 22 Mar 2019 12:09

Instrument :

MSVOA_D

ClientSampleId :

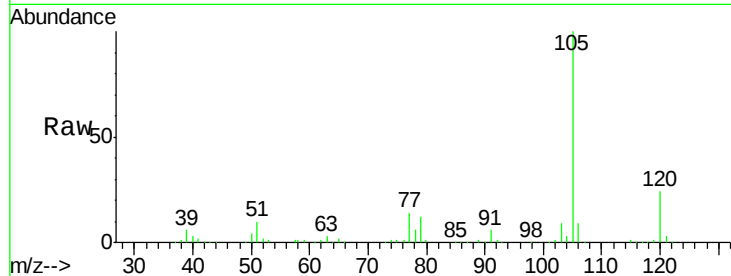
VD0322SBS01

Tot Ion:105 Resp: 571762

Ion Ratio Lower Upper

105 100

120 24.4 12.8 38.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

13.43

400000

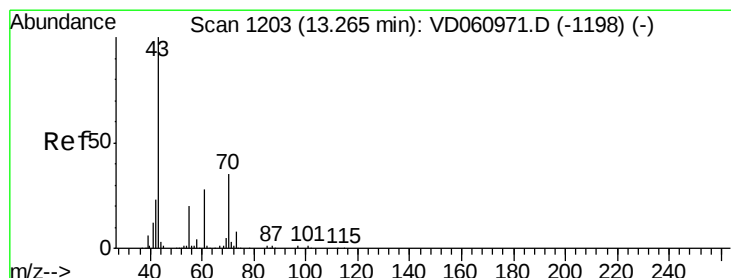
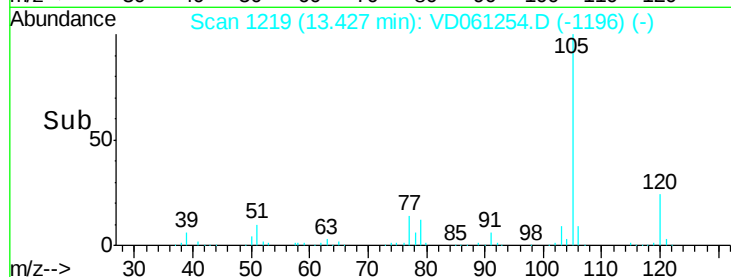
300000

200000

100000

0

Time-->



#74

N-ethyl acetate

Concen: 23.218 ug/l

RT: 13.29 min Scan# 1205

Delta R.T. 0.02 min

Lab File: VD061254.D

Acq: 22 Mar 2019 12:09

Tgt Ion: 43 Resp: 157584

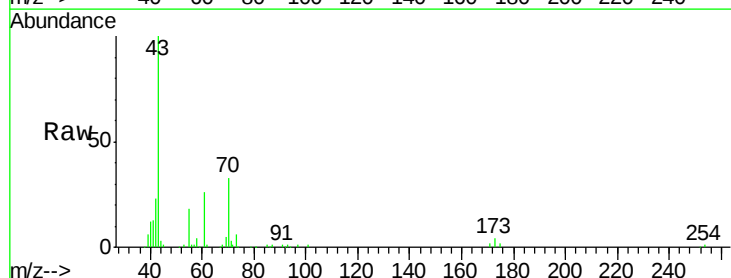
Ion Ratio Lower Upper

43 100

70 32.7 27.7 41.5

55 18.5 16.2 24.2

61 25.9 22.3 33.5



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

13.29

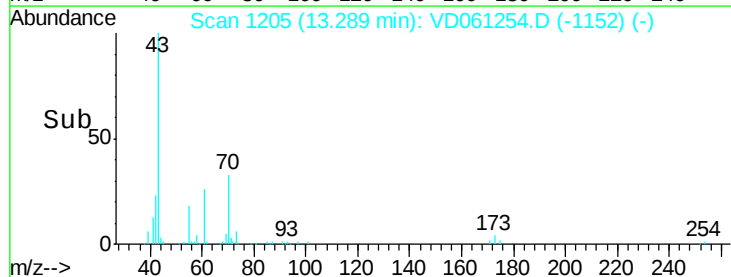
150000

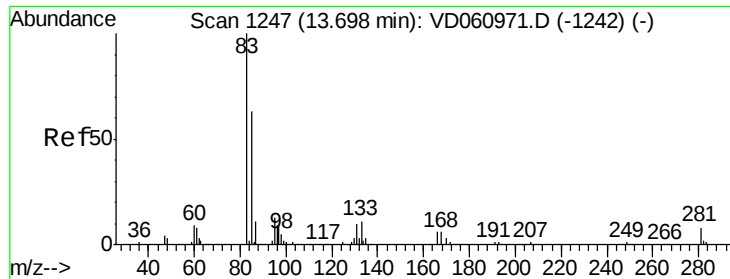
100000

50000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 23.462 ug/l

RT: 13.72 min Scan# 1249

Delta R.T. 0.02 min

Lab File: VD061254.D

Acq: 22 Mar 2019 12:09

Instrument :

MSVOA_D

ClientSampleId :

VD0322SBS01

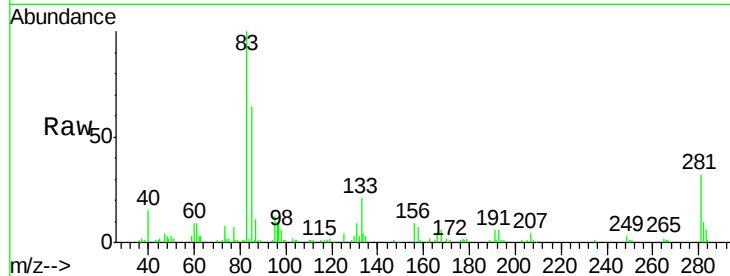
Tot Ion: 83 Resp: 110338

Ion Ratio Lower Upper

83 100

131 8.6 5.1 15.3

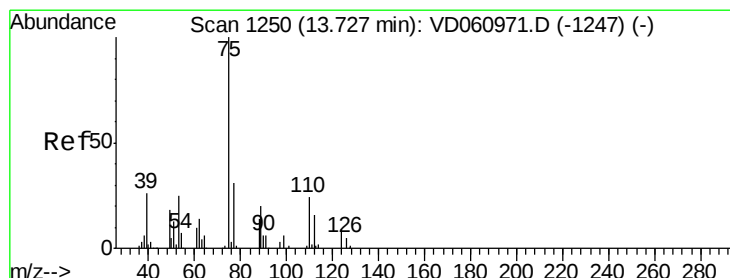
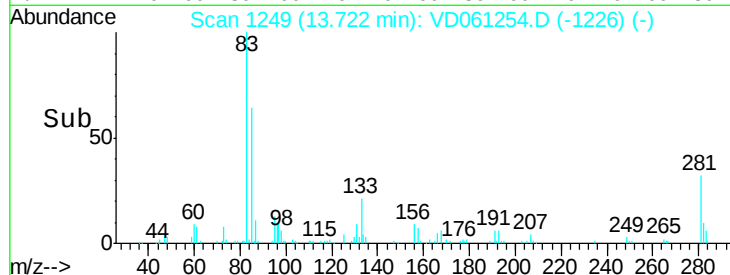
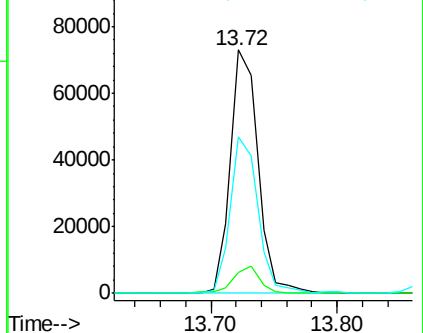
85 64.2 31.5 94.5



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 24.005 ug/l

RT: 13.76 min Scan# 1253

Delta R.T. 0.03 min

Lab File: VD061254.D

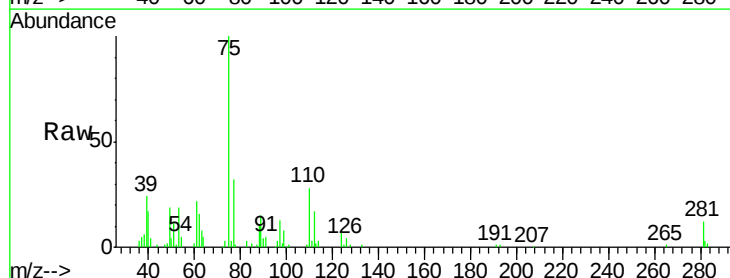
Acq: 22 Mar 2019 12:09

Tgt Ion: 75 Resp: 115509

Ion Ratio Lower Upper

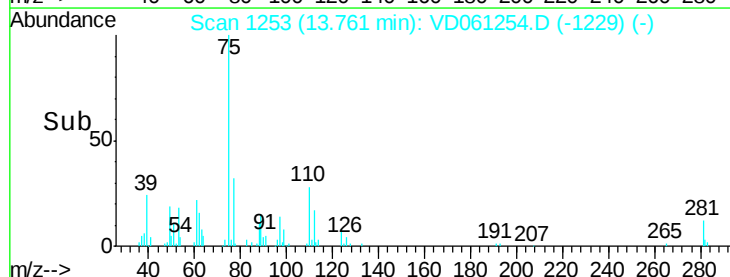
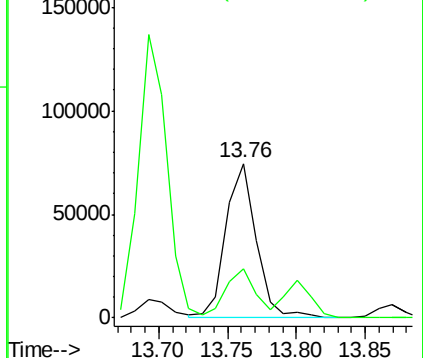
75 100

77 32.0 16.6 49.7



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 26.042 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. 0.03 min

Lab File: VD061254.D

Acq: 22 Mar 2019 12:09

Instrument :

MSVOA_D

ClientSampleId :

VD0322SBS01

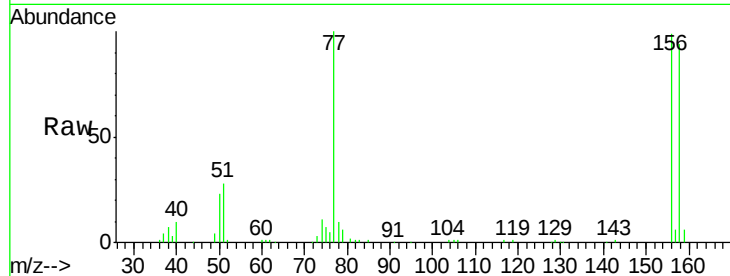
Tot Ion:156 Resp: 160239

Ion Ratio Lower Upper

156 100

77 101.3 55.5 166.7

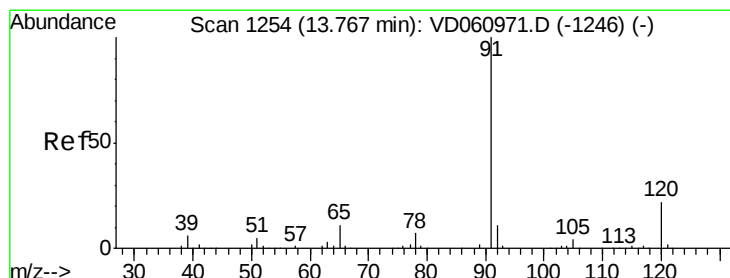
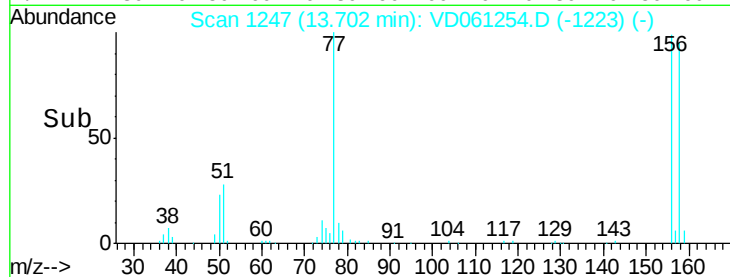
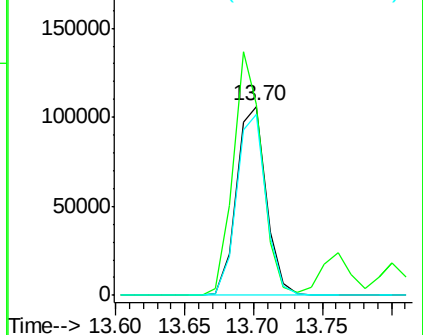
158 95.8 49.0 147.0



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 24.686 ug/l

RT: 13.80 min Scan# 1257

Delta R.T. 0.03 min

Lab File: VD061254.D

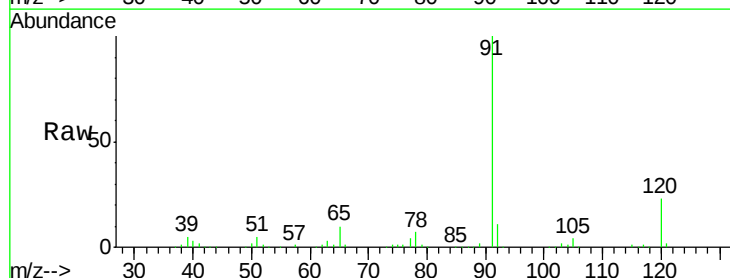
Acq: 22 Mar 2019 12:09

Tgt Ion: 91 Resp: 696600

Ion Ratio Lower Upper

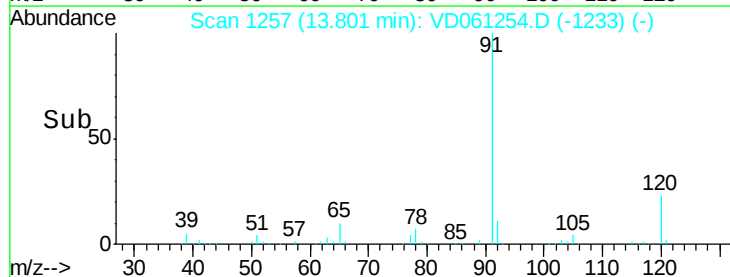
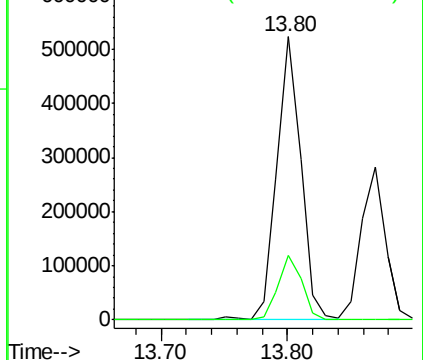
91 100

120 22.6 10.8 32.3



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 24.154 ug/l

RT: 13.87 min Scan# 1264

Delta R.T. 0.03 min

Lab File: VD061254.D

Acq: 22 Mar 2019 12:09

Instrument :

MSVOA_D

ClientSampleId :

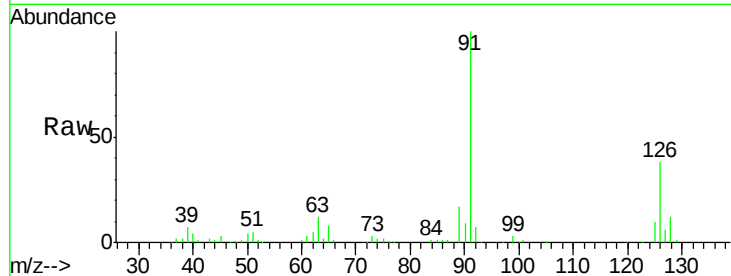
VD0322SBS01

Tot Ion: 91 Resp: 375254

Ion Ratio Lower Upper

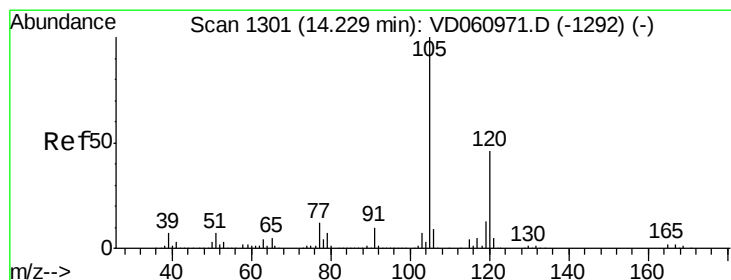
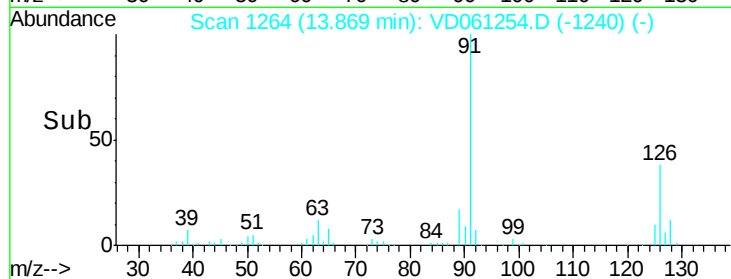
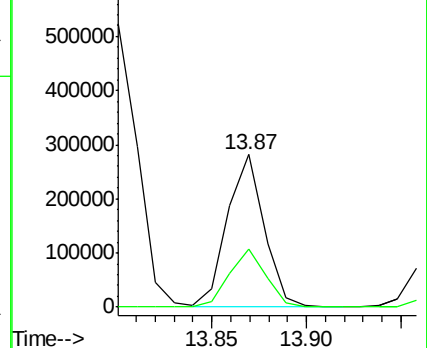
91 100

126 38.1 18.6 55.6



Abundance Ion 91.00 (90.70 to 91.70): VD060971.D (-1258) (-)

Ion 125.95 (125.65 to 126.65): VD060971.D (-1258) (-)



#80

1,3,5-Trimethylbenzene

Concen: 24.969 ug/l

RT: 14.26 min Scan# 1304

Delta R.T. 0.03 min

Lab File: VD061254.D

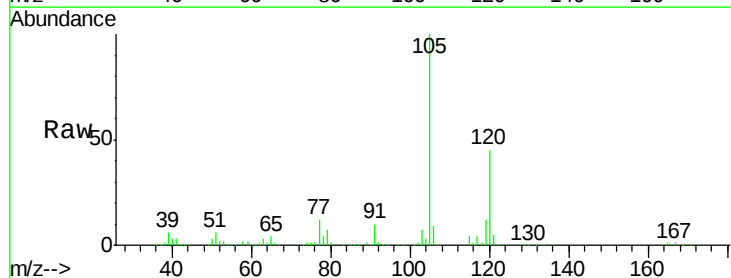
Acq: 22 Mar 2019 12:09

Tgt Ion: 105 Resp: 456918

Ion Ratio Lower Upper

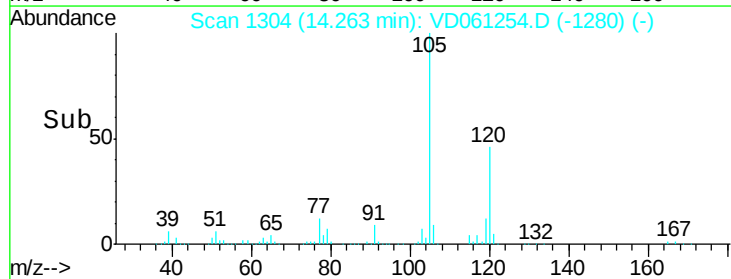
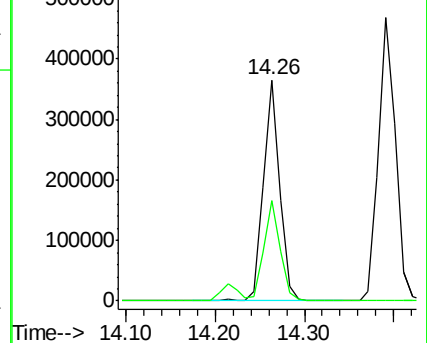
105 100

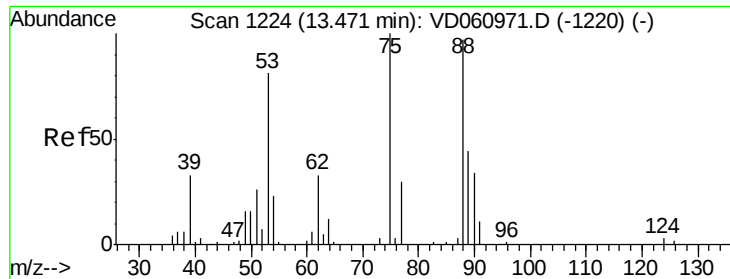
120 45.5 22.9 68.5



Abundance Ion 105.05 (104.75 to 105.75): VD060971.D (-1292) (-)

Ion 120.05 (119.75 to 120.75): VD060971.D (-1292) (-)

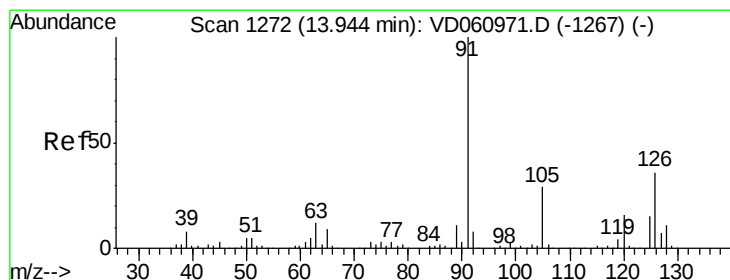
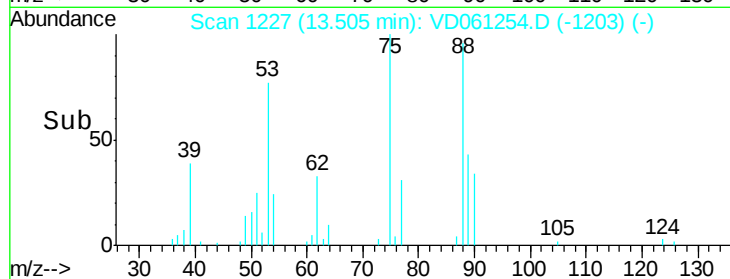
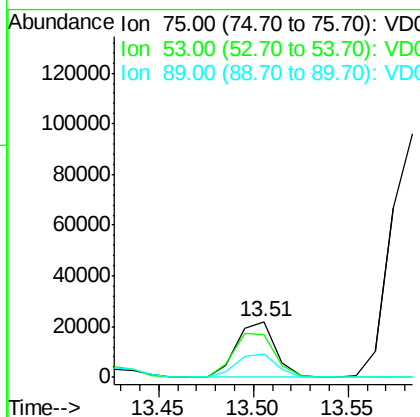
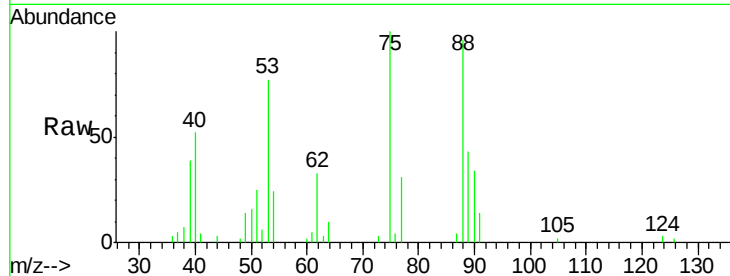




#81
trans-1,4-Dichloro-2-butene
Concen: 21.941 ug/l
RT: 13.51 min Scan# 1227
Delta R.T. 0.03 min
Lab File: VD061254.D
Acq: 22 Mar 2019 12:09

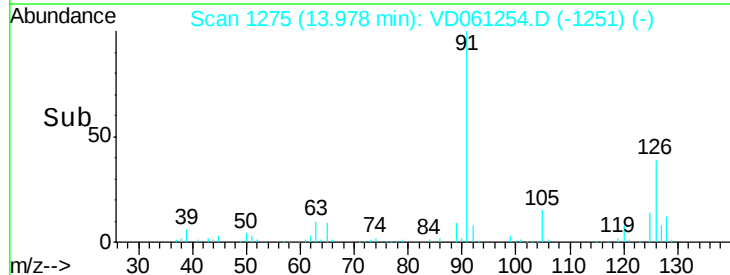
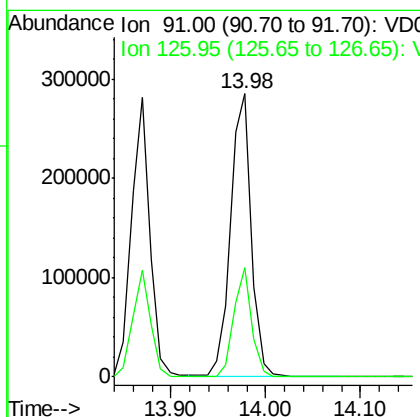
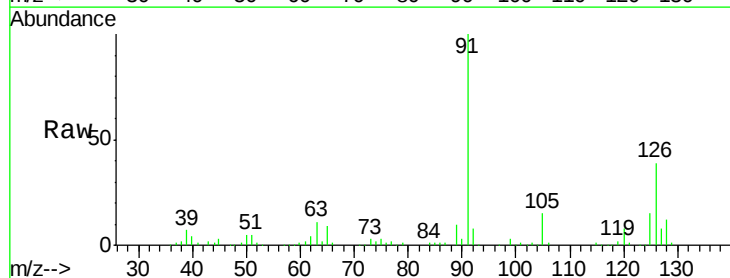
Instrument :
MSVOA_D
ClientSampleId :
VD0322SBS01

Tot Ion: 75 Resp: 31127
Ion Ratio Lower Upper
75 100
53 77.2 64.4 96.6
89 42.7 34.8 52.2



#82
4-Chlorotoluene
Concen: 23.411 ug/l
RT: 13.98 min Scan# 1275
Delta R.T. 0.03 min
Lab File: VD061254.D
Acq: 22 Mar 2019 12:09

Tgt Ion: 91 Resp: 429964
Ion Ratio Lower Upper
91 100
126 38.5 18.0 54.0





#83

tert-Butylbenzene

Concen: 26.980 ug/l

RT: 14.21 min Scan# 1299

Delta R.T. 0.02 min

Lab File: VD061254.D

Acq: 22 Mar 2019 12:09

Instrument :

MSVOA_D

ClientSampleId :

VD0322SBS01

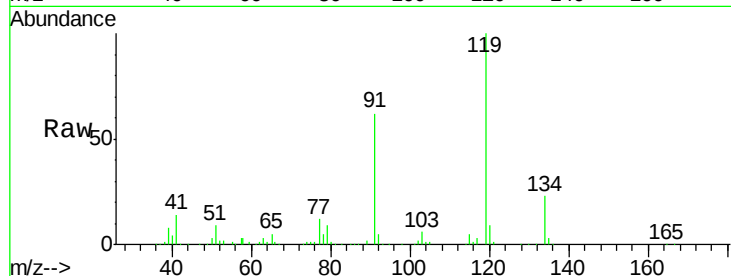
Tot Ion:119 Resp: 540310

Ion Ratio Lower Upper

119 100

91 62.3 30.1 90.3

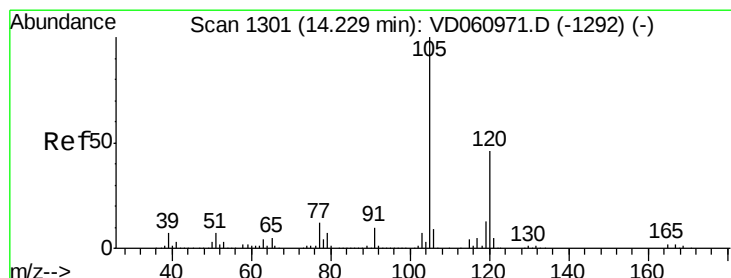
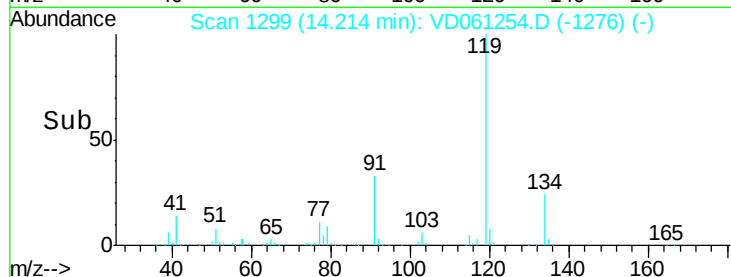
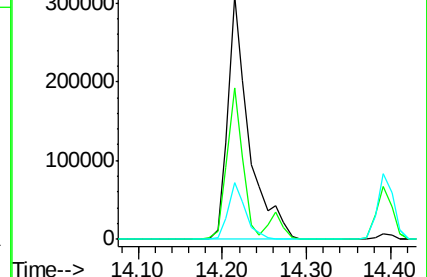
134 23.5 11.6 34.7



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 24.969 ug/l

RT: 14.26 min Scan# 1304

Delta R.T. 0.03 min

Lab File: VD061254.D

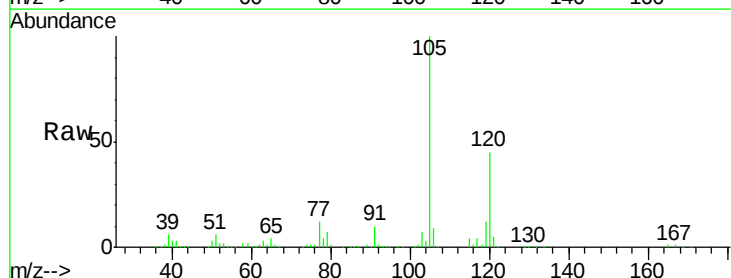
Acq: 22 Mar 2019 12:09

Tgt Ion:105 Resp: 456918

Ion Ratio Lower Upper

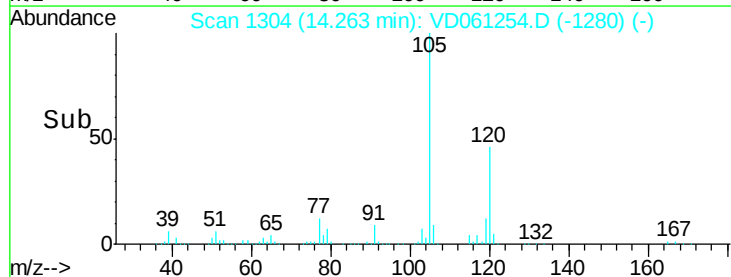
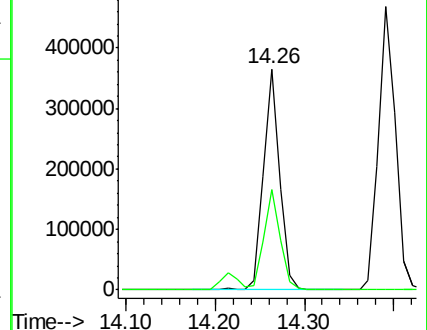
105 100

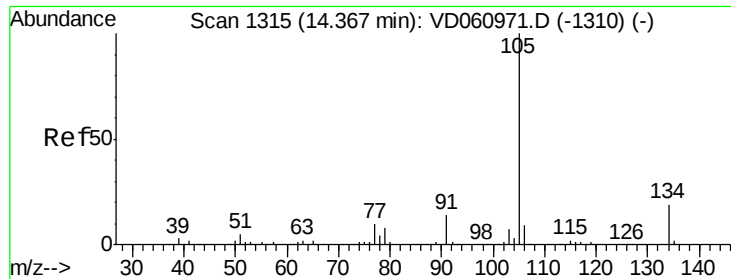
120 45.5 22.9 68.5



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

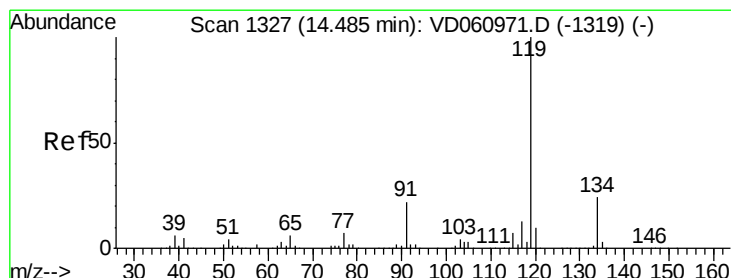
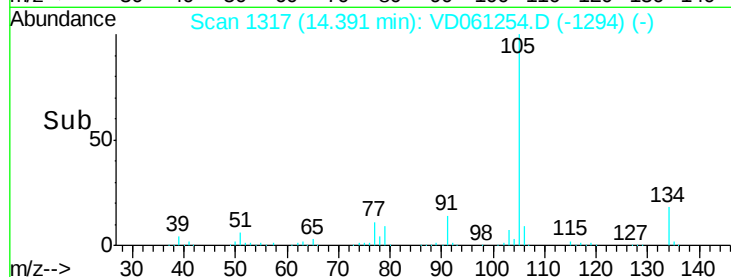
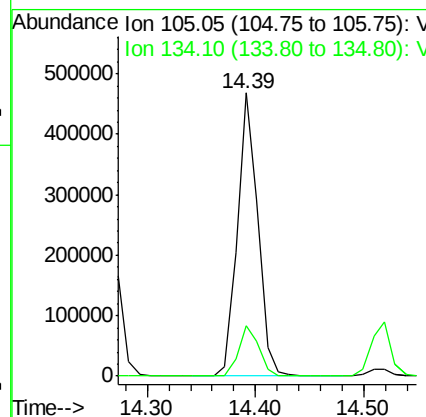
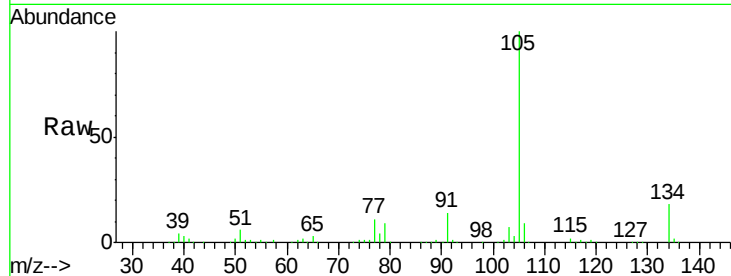




#85
 sec-Butylbenzene
 Concen: 25.064 ug/l
 RT: 14.39 min Scan# 1317
 Delta R.T. 0.02 min
 Lab File: VD061254.D
 Acq: 22 Mar 2019 12:09

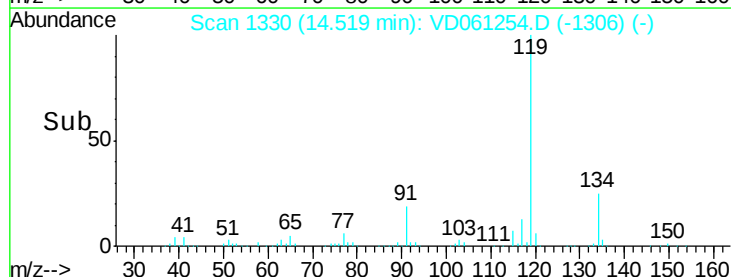
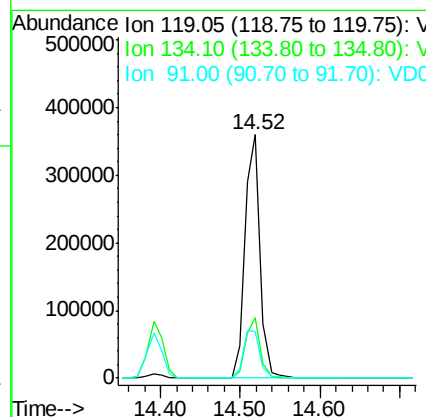
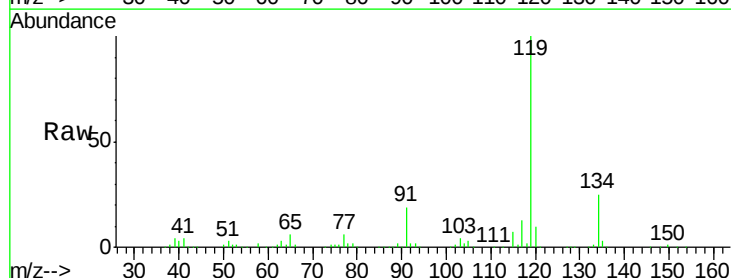
Instrument :
 MSVOA_D
 ClientSampleID :
 VD0322SBS01

Tot Ion:105 Resp: 612769
 Ion Ratio Lower Upper
 105 100
 134 17.8 9.4 28.2



#86
 p-Isopropyltoluene
 Concen: 23.673 ug/l
 RT: 14.52 min Scan# 1330
 Delta R.T. 0.03 min
 Lab File: VD061254.D
 Acq: 22 Mar 2019 12:09

Tgt Ion:119 Resp: 473080
 Ion Ratio Lower Upper
 119 100
 134 25.1 12.0 36.1
 91 19.2 11.2 33.6

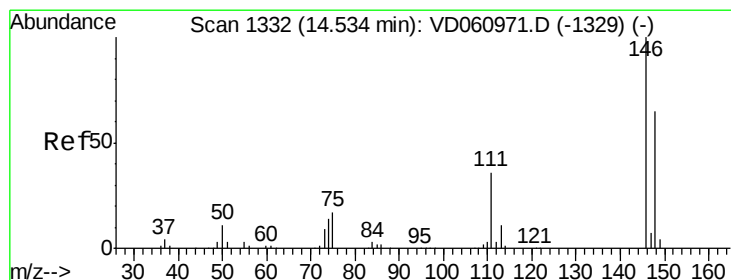
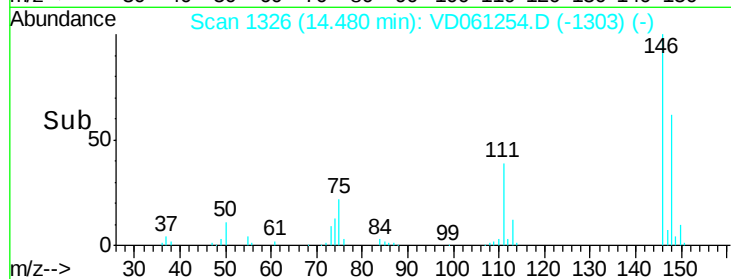
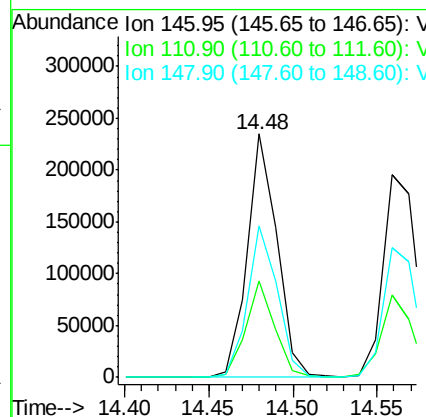
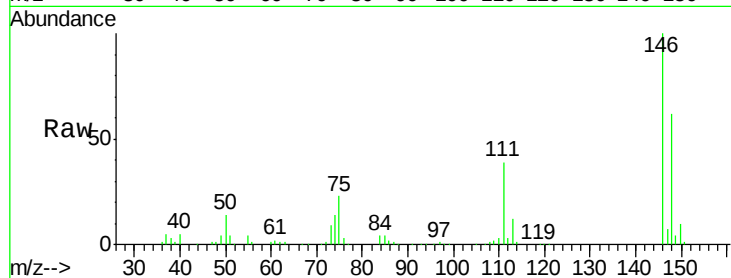




#87
 1,3-Dichlorobenzene
 Concen: 26.278 ug/l
 RT: 14.48 min Scan# 1326
 Delta R.T. 0.02 min
 Lab File: VD061254.D
 Acq: 22 Mar 2019 12:09

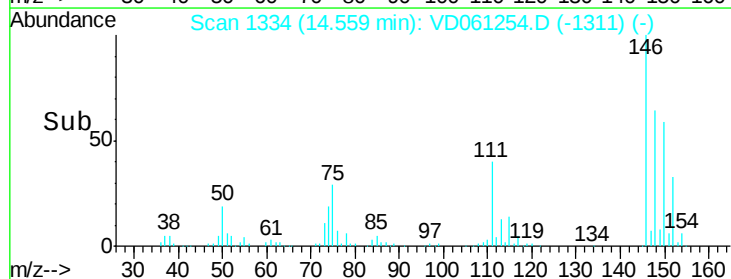
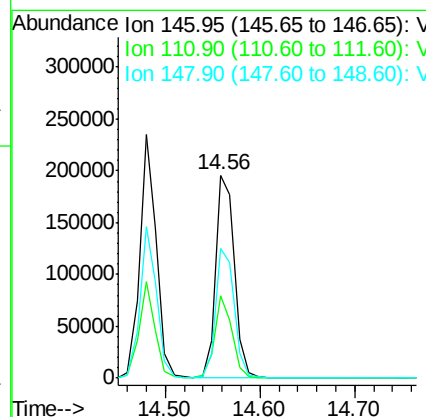
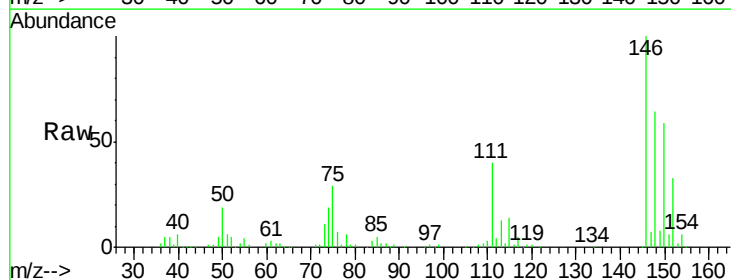
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0322SBS01

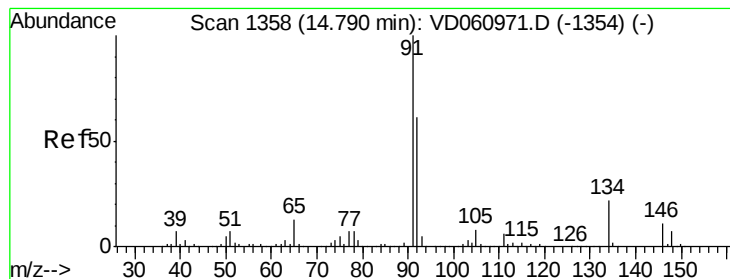
Tot Ion:146 Resp: 288730
 Ion Ratio Lower Upper
 146 100
 111 39.4 18.4 55.4
 148 62.3 32.5 97.4



#88
 1,4-Dichlorobenzene
 Concen: 25.171 ug/l
 RT: 14.56 min Scan# 1334
 Delta R.T. 0.02 min
 Lab File: VD061254.D
 Acq: 22 Mar 2019 12:09

Tgt Ion:146 Resp: 271768
 Ion Ratio Lower Upper
 146 100
 111 40.4 18.4 55.2
 148 64.3 32.5 97.5





#89

n-Butylbenzene

Concen: 23.742 ug/l

RT: 14.82 min Scan# 1361

Delta R.T. 0.03 min

Lab File: VD061254.D

Acq: 22 Mar 2019 12:09

Instrument :

MSVOA_D

ClientSampleId :

VD0322SBS01

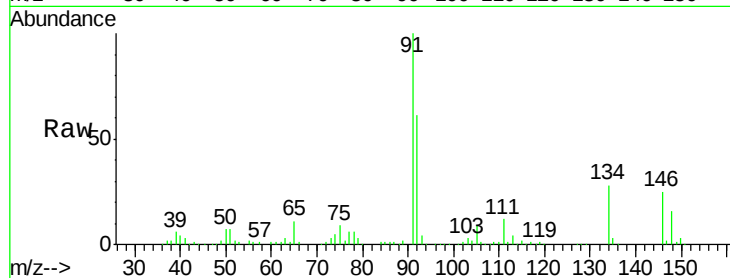
Tot Ion: 91 Resp: 455624

Ion Ratio Lower Upper

91 100

92 61.4 30.6 91.8

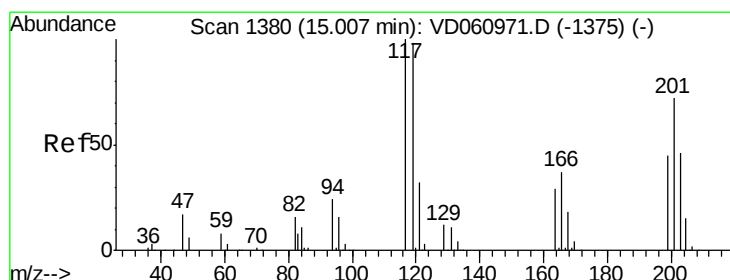
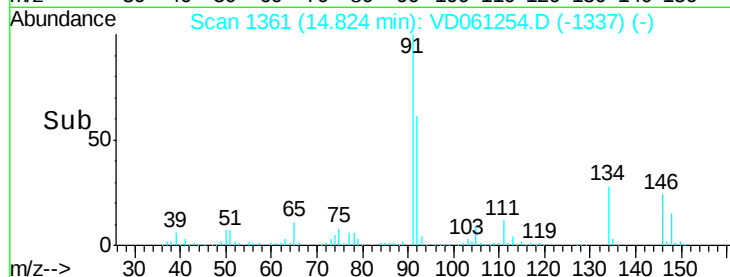
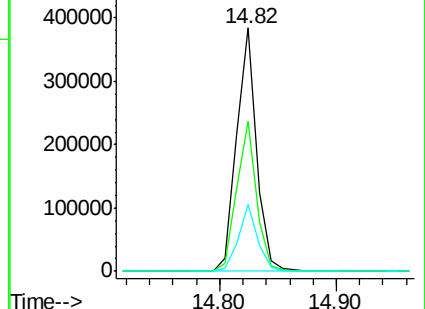
134 27.6 11.0 33.0



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 92.00 (91.70 to 92.70): VDC

Ion 134.10 (133.80 to 134.80): VDC



#90

Hexachloroethane

Concen: 24.489 ug/l

RT: 15.03 min Scan# 1382

Delta R.T. 0.02 min

Lab File: VD061254.D

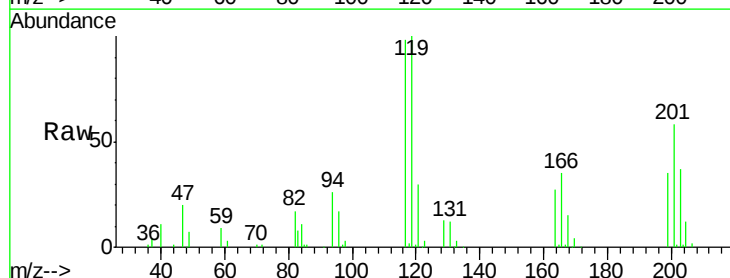
Acq: 22 Mar 2019 12:09

Tgt Ion: 117 Resp: 138188

Ion Ratio Lower Upper

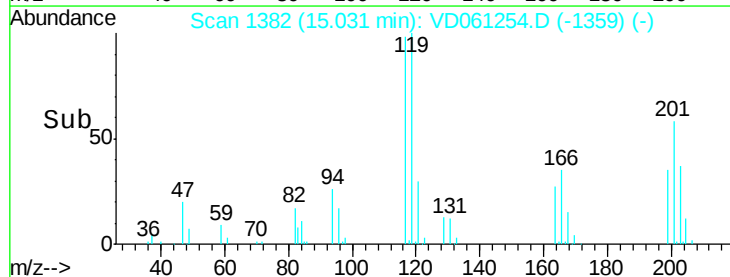
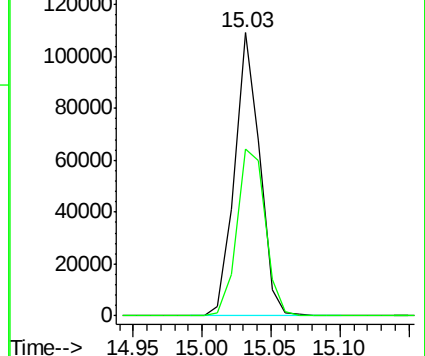
117 100

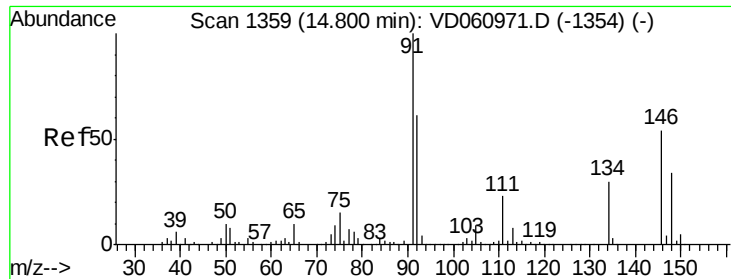
201 59.2 36.2 108.6



Abundance Ion 116.85 (116.55 to 117.55): VDC

Ion 200.75 (200.45 to 201.45): VDC

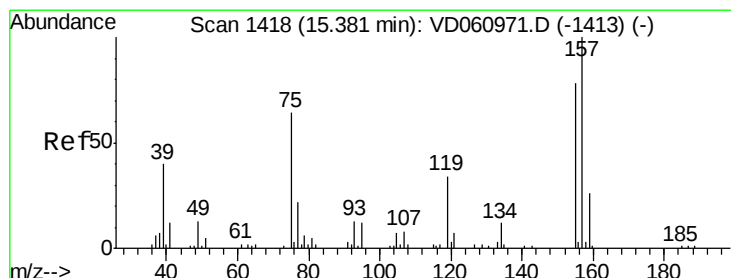
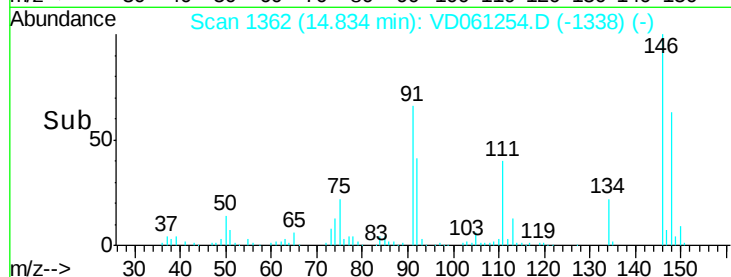
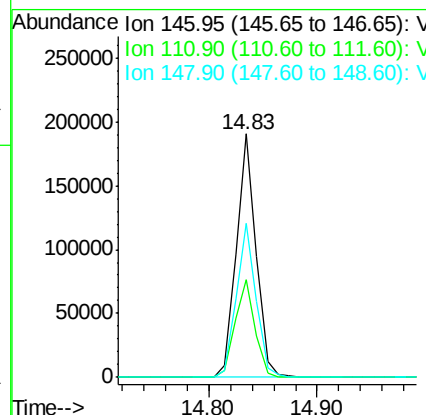
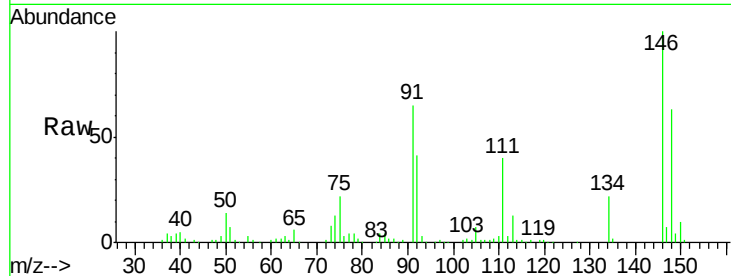




#91
 1,2-Dichlorobenzene
 Concen: 26.308 ug/l
 RT: 14.83 min Scan# 1362
 Delta R.T. 0.03 min
 Lab File: VD061254.D
 Acq: 22 Mar 2019 12:09

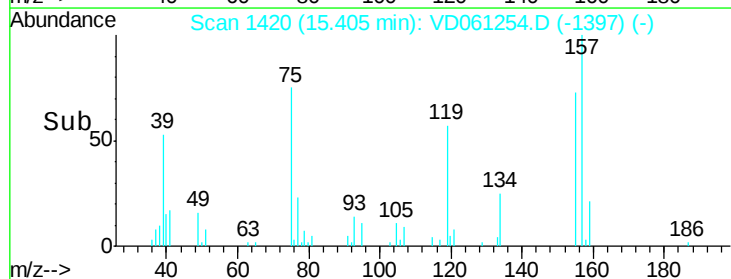
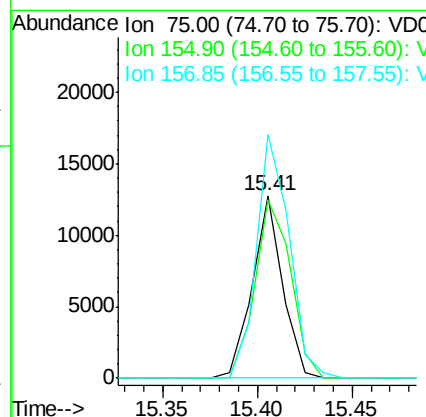
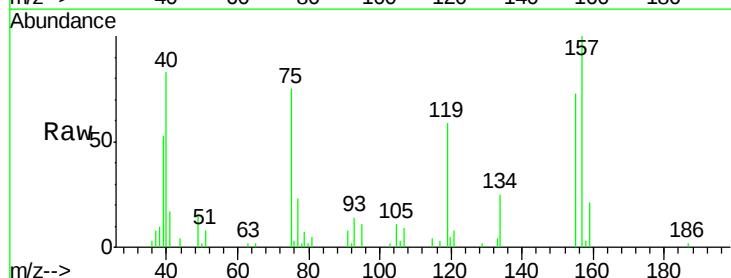
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0322SBS01

Tot Ion:146 Resp: 240972
 Ion Ratio Lower Upper
 146 100
 111 40.2 21.5 64.5
 148 63.2 30.9 92.8



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 24.804 ug/l
 RT: 15.41 min Scan# 1420
 Delta R.T. 0.02 min
 Lab File: VD061254.D
 Acq: 22 Mar 2019 12:09

Tgt Ion: 75 Resp: 14057
 Ion Ratio Lower Upper
 75 100
 155 97.6 61.2 183.5
 157 133.4 78.3 234.8

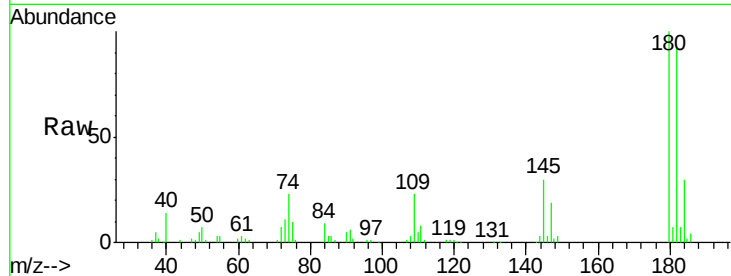




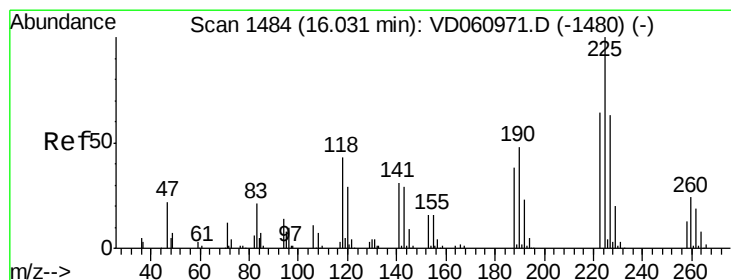
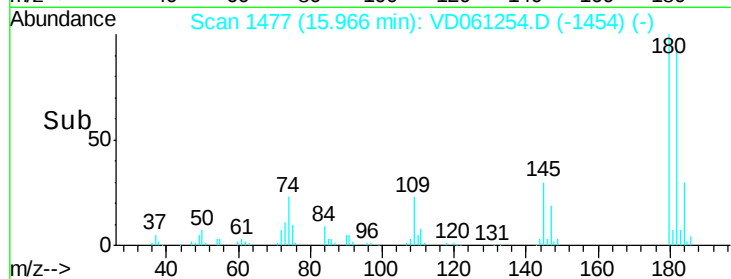
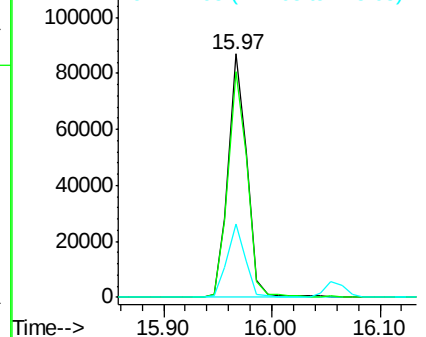
#93
 1,2,4-Trichlorobenzene
 Concen: 24.802 ug/l
 RT: 15.97 min Scan# 1477
 Delta R.T. 0.02 min
 Lab File: VD061254.D
 Acq: 22 Mar 2019 12:09

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0322SBS01

Tot Ion:180 Resp: 105386
 Ion Ratio Lower Upper
 180 100
 182 92.7 47.3 142.0
 145 29.9 14.4 43.0

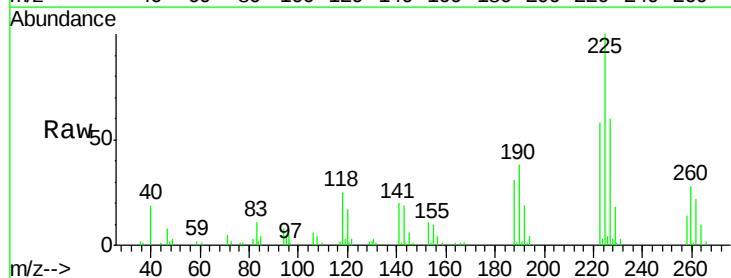


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

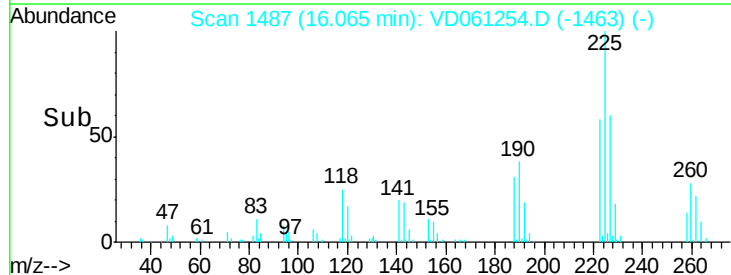
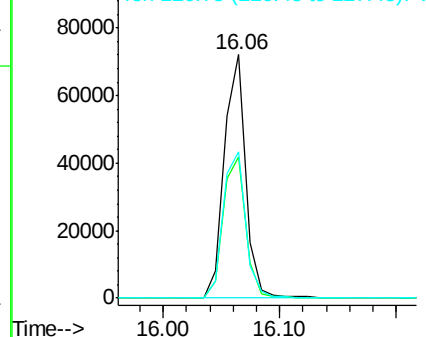


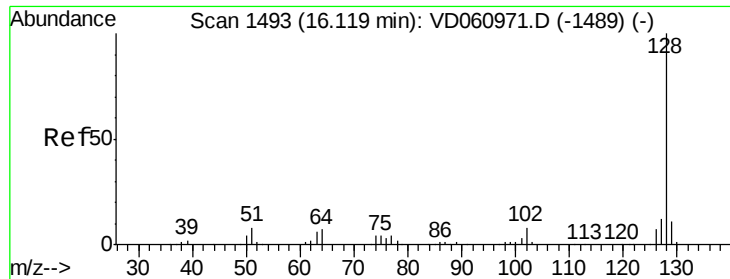
#94
 Hexachlorobutadiene
 Concen: 28.683 ug/l
 RT: 16.06 min Scan# 1487
 Delta R.T. 0.03 min
 Lab File: VD061254.D
 Acq: 22 Mar 2019 12:09

Tgt Ion:225 Resp: 92187
 Ion Ratio Lower Upper
 225 100
 223 58.0 31.8 95.3
 227 59.9 31.4 94.0



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

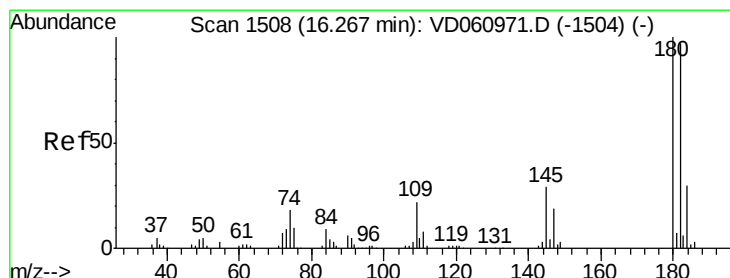
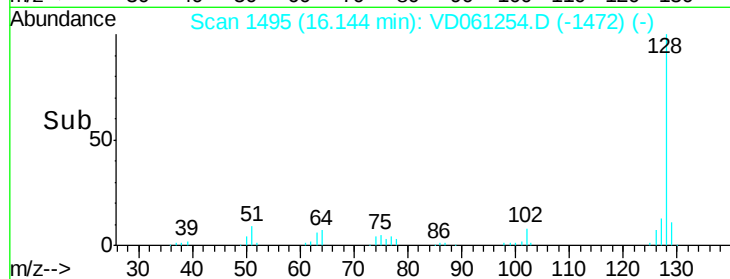
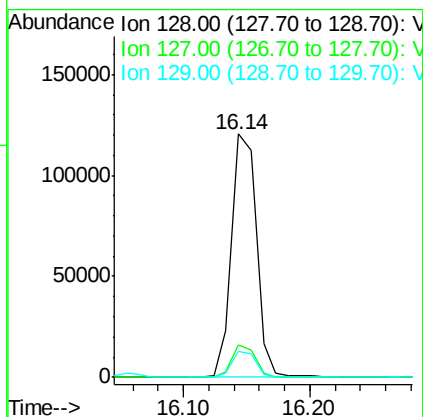
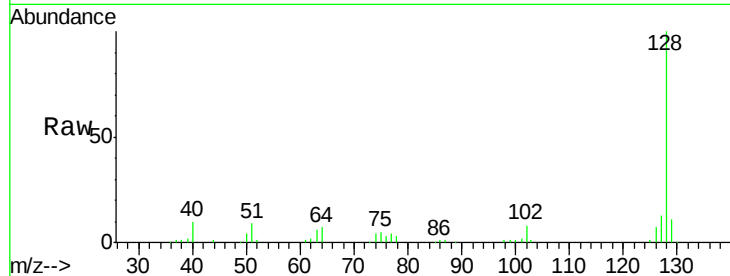




#95
Naphthalene
Concen: 25.483 ug/l
RT: 16.14 min Scan# 1495
Delta R.T. 0.02 min
Lab File: VD061254.D
Acq: 22 Mar 2019 12:09

Instrument :
MSVOA_D
ClientSampleId :
VD0322SBS01

Tot Ion:128 Resp: 164547
Ion Ratio Lower Upper
128 100
127 13.1 9.8 14.8
129 10.6 8.5 12.7



#96
1,2,3-Trichlorobenzene
Concen: 26.380 ug/l
RT: 16.29 min Scan# 1510
Delta R.T. 0.02 min
Lab File: VD061254.D
Acq: 22 Mar 2019 12:09

Tgt Ion:180 Resp: 55363
Ion Ratio Lower Upper
180 100
182 95.5 48.6 145.8
145 34.6 14.3 42.9

