

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092018\
 Data File : VD060051.D
 Acq On : 20 Sep 2018 12:35
 Operator : VA/AP
 Sample : VD0920SBS01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0920SBS01

Quant Time: Sep 20 16:01:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D091318S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 13 16:17:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.38	168	1603959	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.43	114	2182542	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.28	117	1759407	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.36	152	957137	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.77	65	665752	53.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.46%	
35) Dibromofluoromethane	6.31	113	903510	52.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.98%	
50) Toluene-d8	9.45	98	2498400	52.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.74%	
62) 4-Bromofluorobenzene	12.42	95	973778	53.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.88%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.58	85	299761	17.70	ug/l	99
3) Chloromethane	1.75	50	309891	20.72	ug/l	97
4) Vinyl Chloride	1.84	62	244855	20.37	ug/l	100
5) Bromomethane	2.12	94	22979	16.15	ug/l	86
6) Chloroethane	2.23	64	58271	21.68	ug/l	100
7) Trichlorofluoromethane	2.49	101	276965	20.92	ug/l	96
8) Diethyl Ether	2.81	74	57076	20.28	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.07	101	184441	22.10	ug/l	97
10) Methyl Iodide	3.23	142	180615	20.43	ug/l	91
11) Tert butyl alcohol	3.95	59	72887	72.22	ug/l	98
12) 1,1-Dichloroethene	3.06	96	151582	22.97	ug/l	89
13) Acrolein	2.97	56	50439	80.70	ug/l	96
14) Allyl chloride	3.51	41	290345	20.86	ug/l	100
15) Acrylonitrile	4.06	53	365473	95.93	ug/l	98
16) Acetone	3.14	43	279789	115.86	ug/l	94
17) Carbon Disulfide	3.29	76	461795	20.31	ug/l	99
18) Methyl Acetate	3.54	43	92202	18.77	ug/l	95
19) Methyl tert-butyl Ether	4.10	73	597503	19.59	ug/l	99
20) Methylene Chloride	3.70	84	397329	18.60	ug/l	95
21) trans-1,2-Dichloroethene	4.08	96	350198	20.22	ug/l	99
22) Diisopropyl ether	4.83	45	1270964	20.02	ug/l	94
23) Vinyl Acetate	4.78	43	3587355	99.74	ug/l	100
24) 1,1-Dichloroethane	4.73	63	583821	20.49	ug/l	100
25) 2-Butanone	5.61	43	698591	107.20	ug/l	98
26) 2,2-Dichloropropane	5.57	77	469902	21.21	ug/l	98
27) cis-1,2-Dichloroethene	5.58	96	368968	20.37	ug/l	98
28) Bromochloromethane	5.90	49	275428	20.11	ug/l	98
29) Tetrahydrofuran	5.93	42	316048	90.43	ug/l	98
30) Chloroform	6.08	83	602698	20.86	ug/l	99
31) Cyclohexane	6.35	56	549820	19.79	ug/l	98
32) 1,1,1-Trichloroethane	6.28	97	474637	19.81	ug/l	100
36) 1,1-Dichloropropene	6.50	75	441897	20.38	ug/l	99
37) Ethyl Acetate	5.68	43	288209	19.33	ug/l	98
38) Carbon Tetrachloride	6.48	117	390375	19.29	ug/l	98

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Quant Time: Sep 20 16:01:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D091318S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 13 16:17:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.02	83	499020	20.35	ug/l	98
40) Benzene	6.78	78	1162570	21.04	ug/l	99
41) Methacrylonitrile	5.93	41	319101	40.86	ug/l #	83
42) 1,2-Dichloroethane	6.88	62	328228	19.78	ug/l	98
43) Isopropyl Acetate	8.33	43	374742	18.77	ug/l #	99
44) Trichloroethene	7.72	130	339028	19.86	ug/l	99
45) 1,2-Dichloropropane	8.09	63	304500	20.61	ug/l	98
46) Dibromomethane	8.20	93	189086	19.61	ug/l	97
47) Bromodichloromethane	8.47	83	420498	20.23	ug/l	99
48) Methyl methacrylate	8.22	41	209650	18.86	ug/l	98
49) 1,4-Dioxane	8.22	88	39364	356.49	ug/l	95
51) 4-Methyl-2-Pentanone	9.33	43	1422987	96.14	ug/l	100
52) Toluene	9.53	92	712879	20.13	ug/l	100
53) t-1,3-Dichloropropene	9.91	75	383778	19.80	ug/l	99
54) cis-1,3-Dichloropropene	9.09	75	470050	20.29	ug/l	100
55) 1,1,2-Trichloroethane	10.17	97	240919	19.59	ug/l	96
56) Ethyl methacrylate	10.02	69	259856	19.05	ug/l	98
57) 1,3-Dichloropropane	10.37	76	374090	20.61	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.90	63	688098	104.47	ug/l	96
59) 2-Hexanone	10.48	43	1078449	101.72	ug/l	100
60) Dibromochloromethane	10.63	129	289840	19.36	ug/l	99
61) 1,2-Dibromoethane	10.74	107	244154	19.23	ug/l	96
64) Tetrachloroethene	10.24	164	322042	20.75	ug/l	99
65) Chlorobenzene	11.31	112	792771	20.96	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.41	131	283294	22.20	ug/l	98
67) Ethyl Benzene	11.42	91	1394134	22.90	ug/l	100
68) m/p-Xylenes	11.56	106	1007889	44.83	ug/l	94
69) o-Xylene	11.93	106	474990	21.32	ug/l	98
70) Styrene	11.94	104	815922	21.78	ug/l	97
71) Bromoform	12.11	173	206192	18.81	ug/l	97
73) Isopropylbenzene	12.27	105	1329214	21.17	ug/l	99
74) N-amyl acetate	12.12	43	470034	18.90	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.55	83	277023	19.45	ug/l	100
76) 1,2,3-Trichloropropane	12.59	75	277095	18.96	ug/l	100
77) Bromobenzene	12.54	156	374624	20.72	ug/l	95
78) n-propylbenzene	12.63	91	1684101	21.33	ug/l	99
79) 2-Chlorotoluene	12.70	91	929055	20.85	ug/l	98
80) 1,3,5-Trimethylbenzene	12.78	105	1056355	21.96	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.34	75	78678	17.83	ug/l	94
82) 4-Chlorotoluene	12.80	91	1046485	21.36	ug/l	97
83) tert-Butylbenzene	13.04	119	1178508	21.14	ug/l	93
84) 1,2,4-Trimethylbenzene	13.09	105	1089542	21.22	ug/l	99
85) sec-Butylbenzene	13.21	105	1393110	21.05	ug/l	99
86) p-Isopropyltoluene	13.33	119	1158842	21.65	ug/l	95
87) 1,3-Dichlorobenzene	13.30	146	667840	21.24	ug/l	97
88) 1,4-Dichlorobenzene	13.38	146	652314	20.45	ug/l	97
89) n-Butylbenzene	13.64	91	1183946	20.46	ug/l	96
90) Hexachloroethane	13.85	117	256590	19.36	ug/l	88
91) 1,2-Dichlorobenzene	13.66	146	592414	20.35	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	14.22	75	35927	16.55	ug/l	96

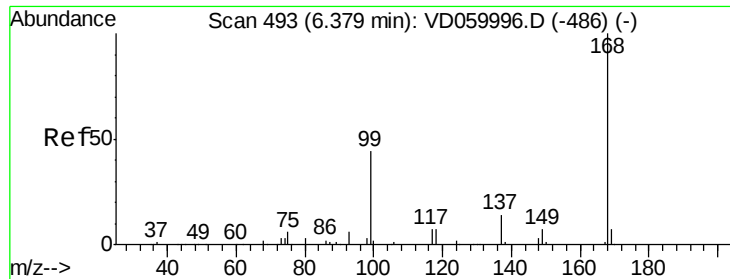
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Quant Title : SW846 8260
QLast Update : Thu Sep 13 16:17:40 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.78	180	458068	20.44	ug/l	97
94) Hexachlorobutadiene	14.88	225	313059	21.12	ug/l	99
95) Naphthalene	14.97	128	644048	18.61	ug/l	99
96) 1,2,3-Trichlorobenzene	15.10	180	379858	19.24	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 6.38 min Scan# 494

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

ClientSampleId :

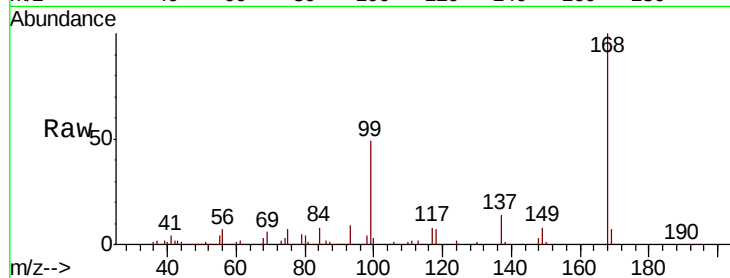
VD0920SBS01

Tot Ion:168 Resp: 1603959

Ion Ratio Lower Upper

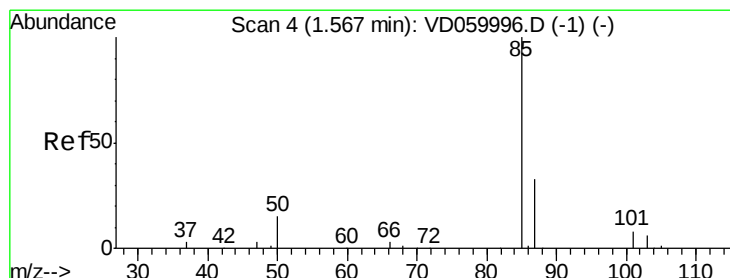
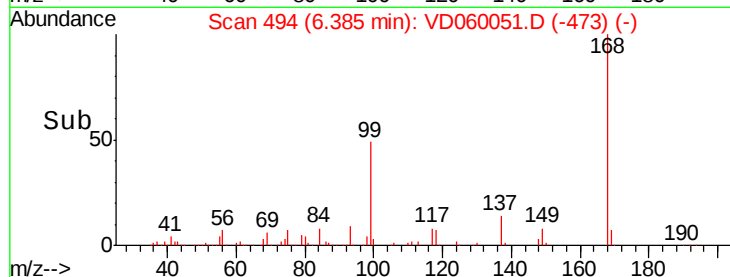
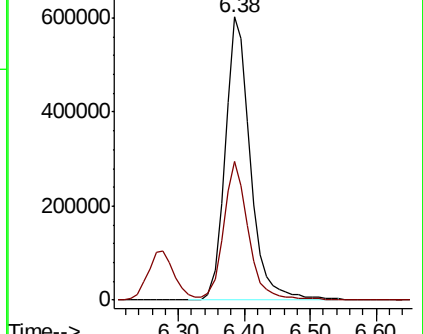
168 100

99 48.9 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 17.70 ug/l

RT: 1.58 min Scan# 6

Delta R.T. 0.02 min

Lab File: VD060051.D

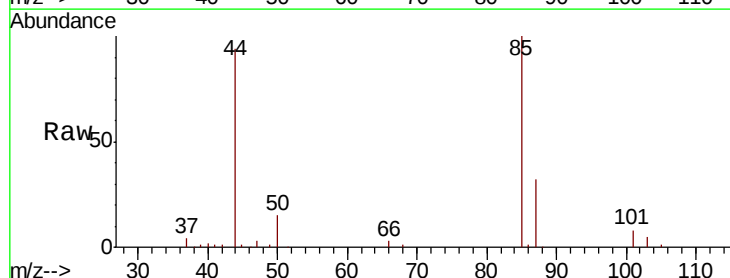
Acq: 20 Sep 2018 12:35

Tgt Ion: 85 Resp: 299761

Ion Ratio Lower Upper

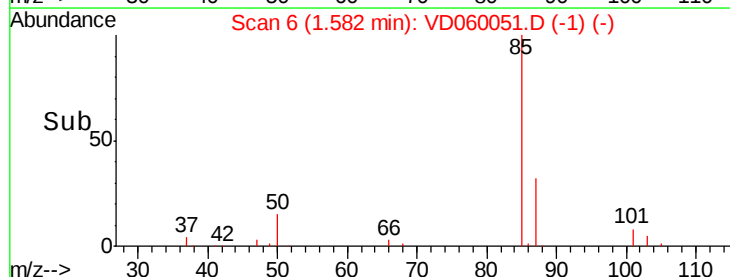
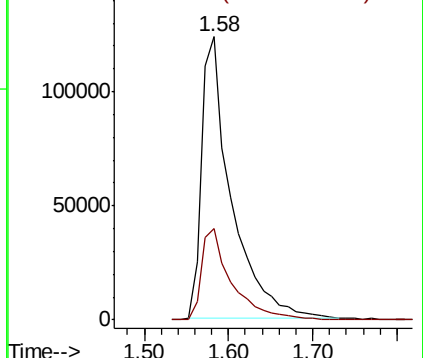
85 100

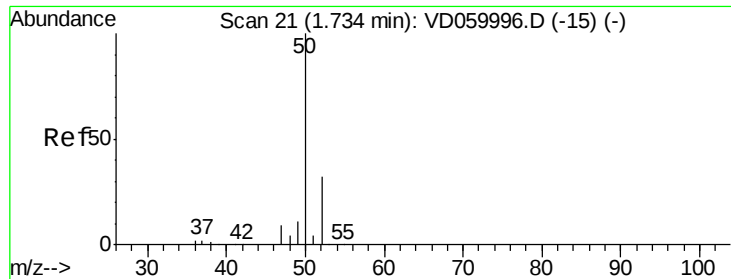
87 32.1 16.4 49.1



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 20.72 ug/l

RT: 1.75 min Scan# 23

Delta R.T. 0.02 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

ClientSampleId :

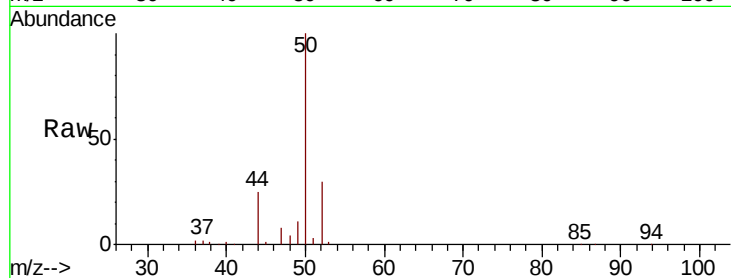
VD0920SBS01

Tot Ion: 50 Resp: 309891

Ion Ratio Lower Upper

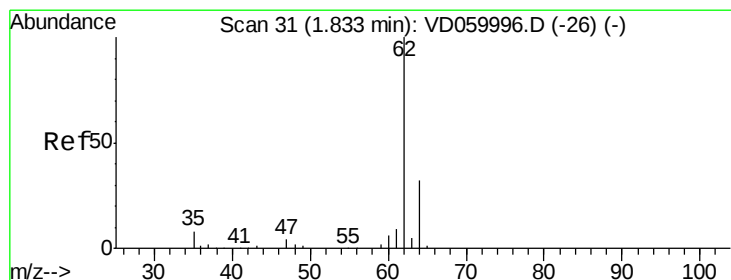
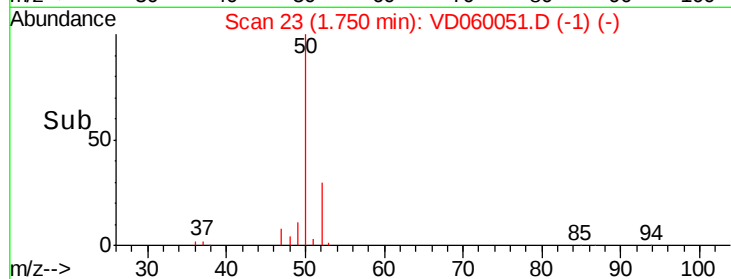
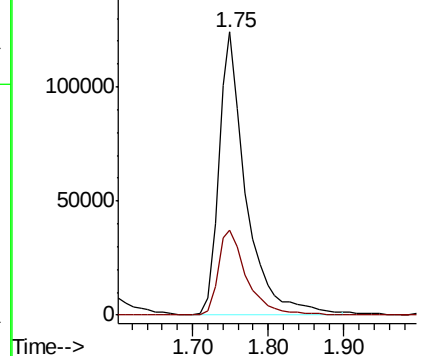
50 100

52 29.9 25.4 38.2



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 20.37 ug/l

RT: 1.84 min Scan# 32

Delta R.T. 0.01 min

Lab File: VD060051.D

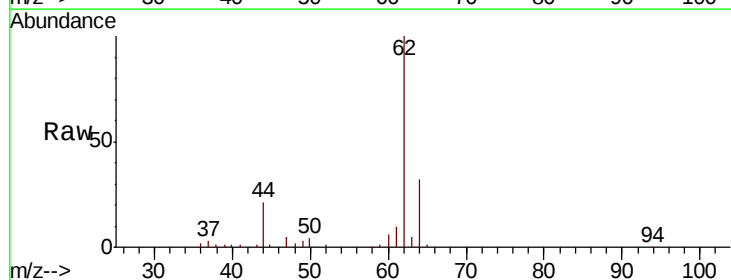
Acq: 20 Sep 2018 12:35

Tgt Ion: 62 Resp: 244855

Ion Ratio Lower Upper

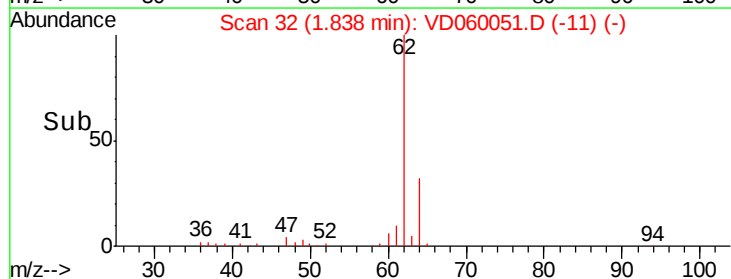
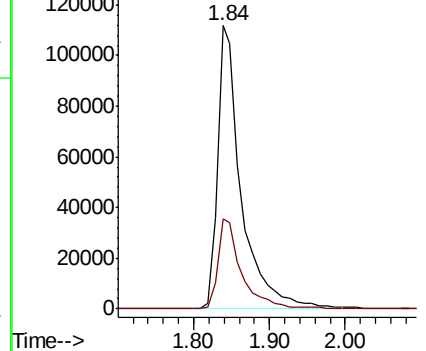
62 100

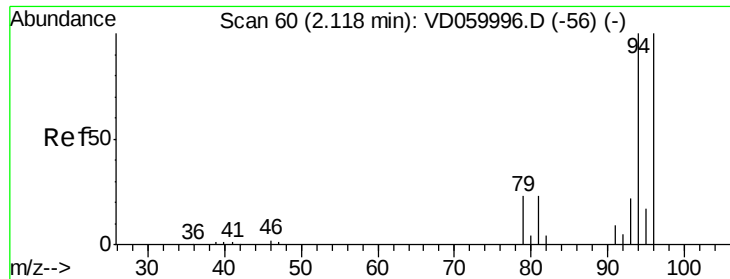
64 31.9 25.5 38.3



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 16.15 ug/l

RT: 2.12 min Scan# 61

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

ClientSampleId :

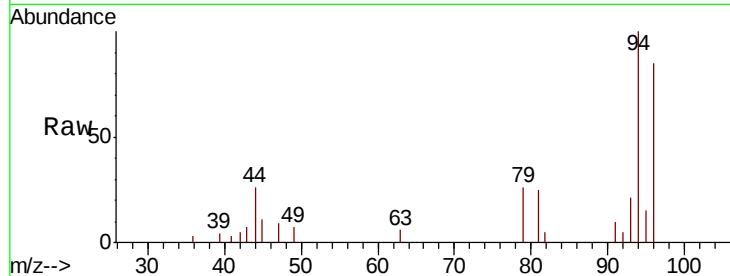
VD0920SBS01

Tot Ion: 94 Resp: 22979

Ion Ratio Lower Upper

94 100

96 85.5 79.8 119.8



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

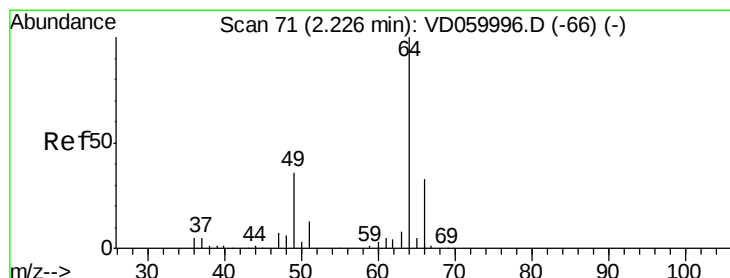
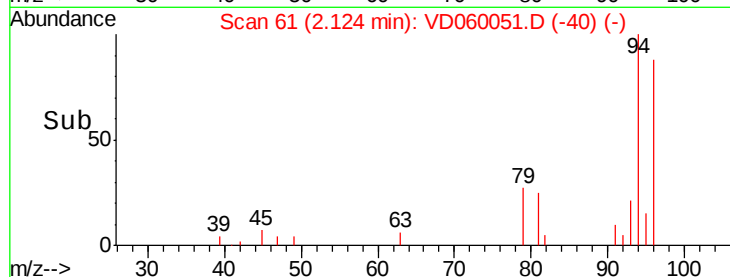
2.12

10000

5000

0

Time-->



#6

Chloroethane

Concen: 21.68 ug/l

RT: 2.23 min Scan# 72

Delta R.T. 0.01 min

Lab File: VD060051.D

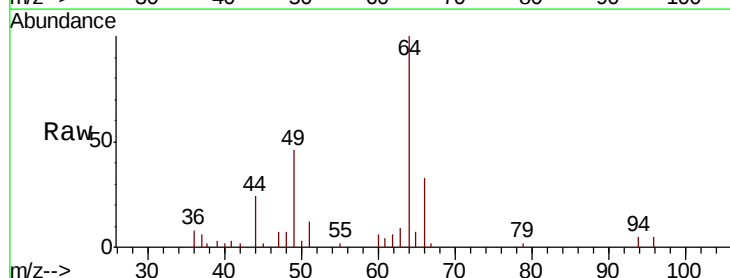
Acq: 20 Sep 2018 12:35

Tgt Ion: 64 Resp: 58271

Ion Ratio Lower Upper

64 100

66 33.4 26.5 39.7



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC

25000

20000

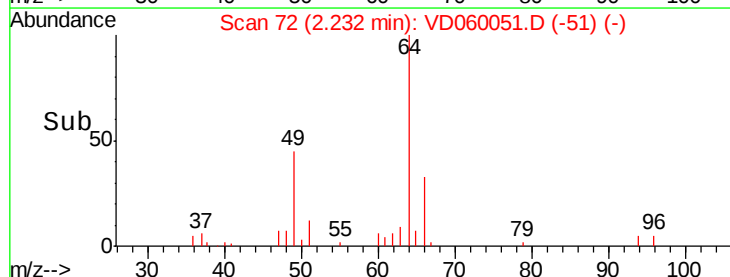
15000

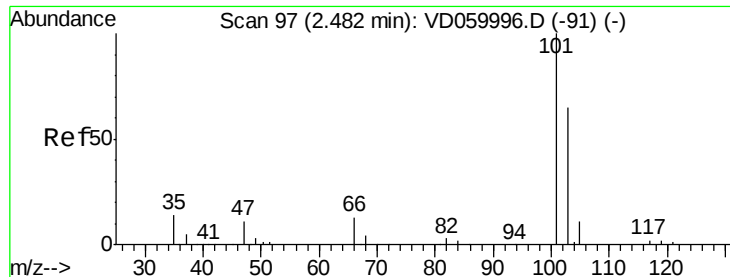
10000

5000

0

Time-->





#7

Trichlorofluoromethane

Concen: 20.92 ug/l

RT: 2.49 min Scan# 98

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

ClientSampleId :

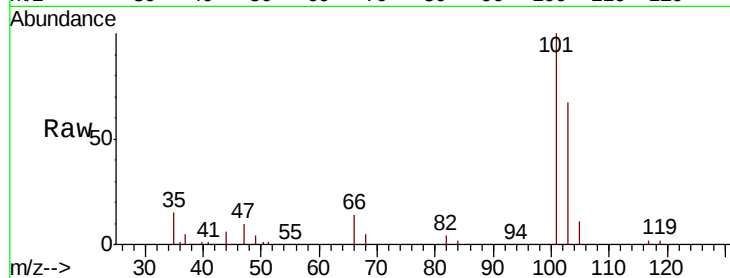
VD0920SBS01

Tot Ion:101 Resp: 276965

Ion Ratio Lower Upper

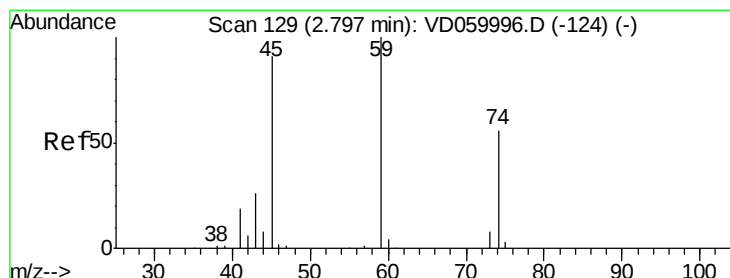
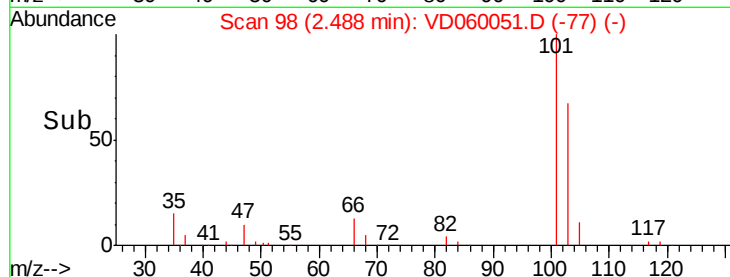
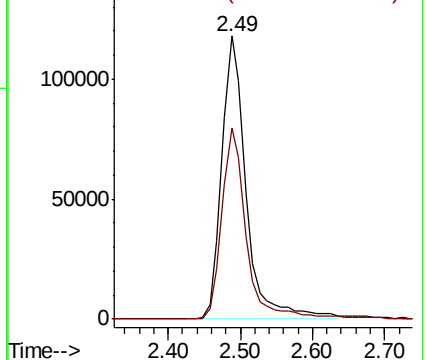
101 100

103 67.5 51.6 77.4



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 102.85 (102.55 to 103.55): V



#8

Diethyl Ether

Concen: 20.28 ug/l

RT: 2.81 min Scan# 131

Delta R.T. 0.02 min

Lab File: VD060051.D

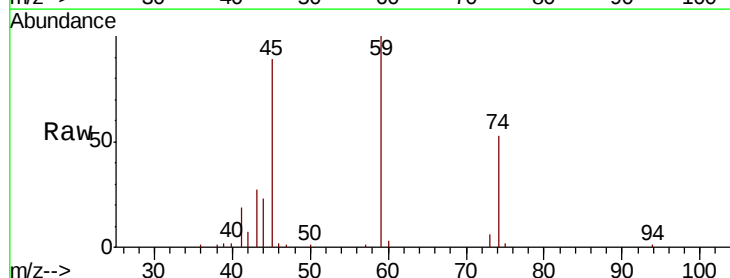
Acq: 20 Sep 2018 12:35

Tgt Ion: 74 Resp: 57076

Ion Ratio Lower Upper

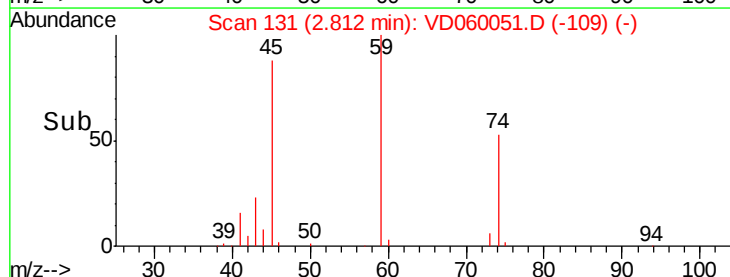
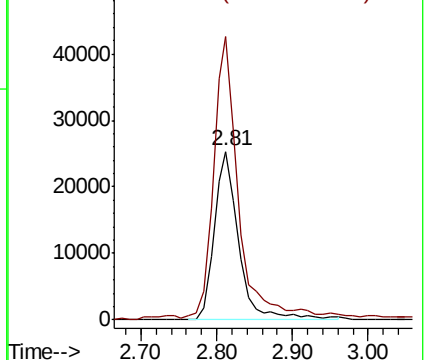
74 100

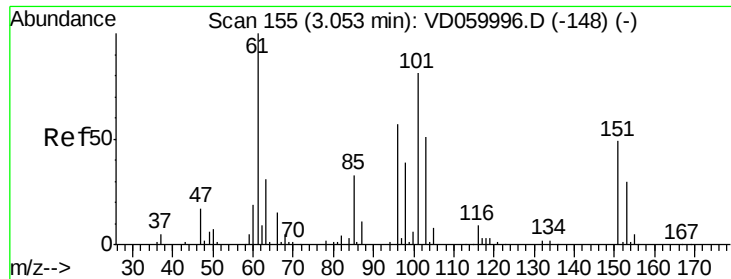
45 168.3 81.2 243.4



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.10 ug/l

RT: 3.07 min Scan# 157

Delta R.T. 0.02 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

ClientSampleId :

VD0920SBS01

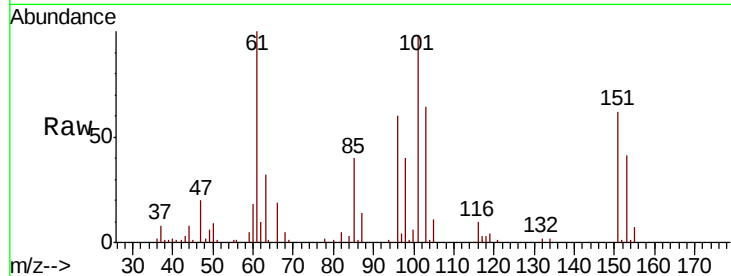
Tot Ion:101 Resp: 184441

Ion Ratio Lower Upper

101 100

85 40.6 33.1 49.7

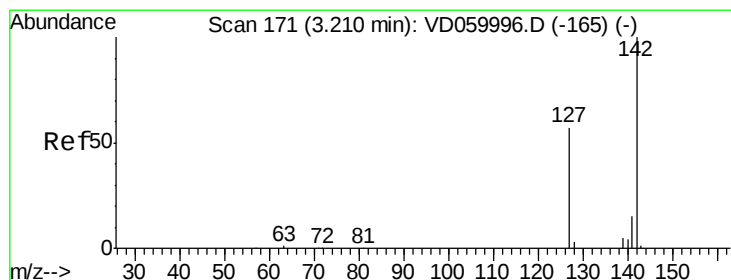
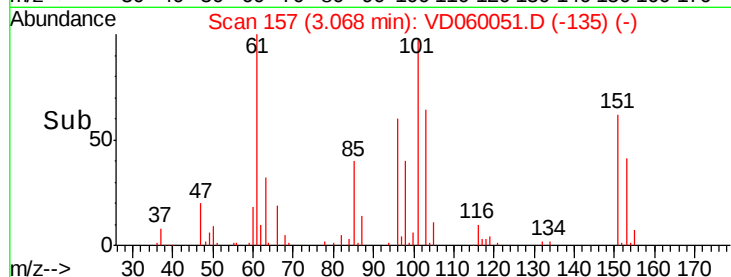
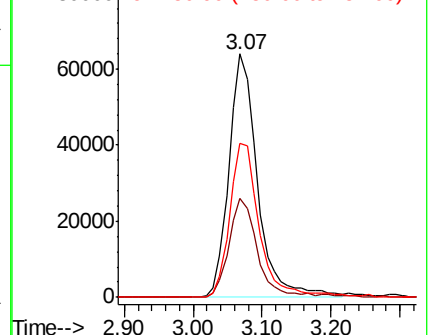
151 63.0 48.2 72.4



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 20.43 ug/l

RT: 3.23 min Scan# 173

Delta R.T. 0.02 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

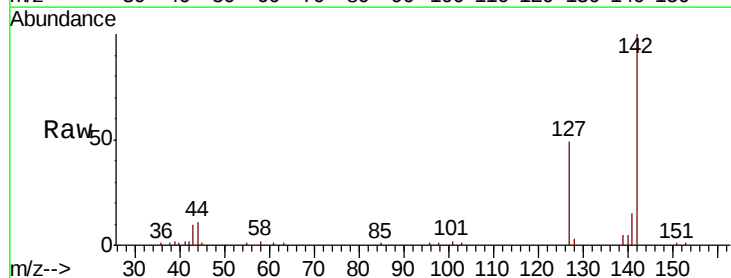
Tgt Ion:142 Resp: 180615

Ion Ratio Lower Upper

142 100

127 49.1 45.8 68.8

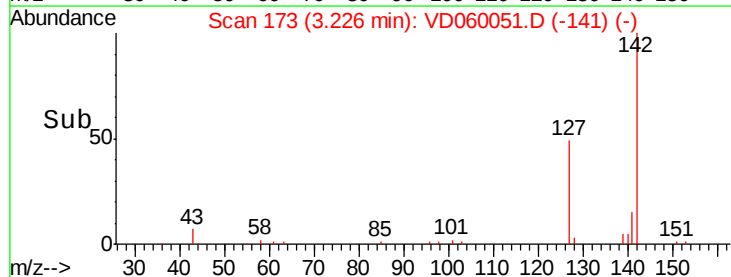
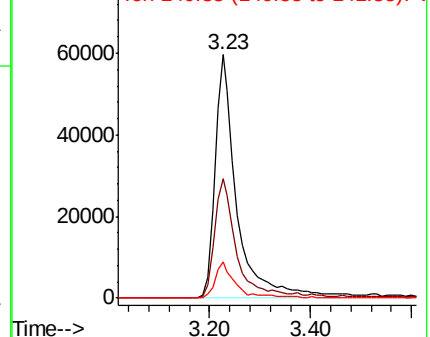
141 15.0 12.2 18.4

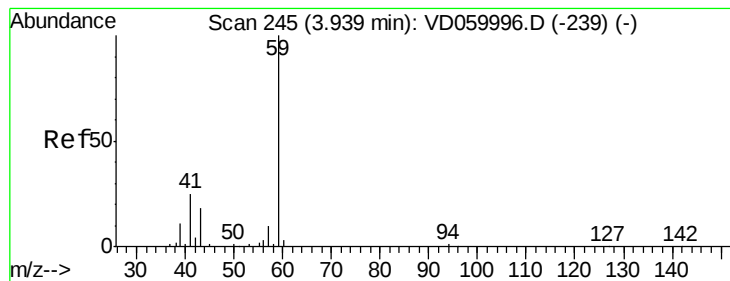


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



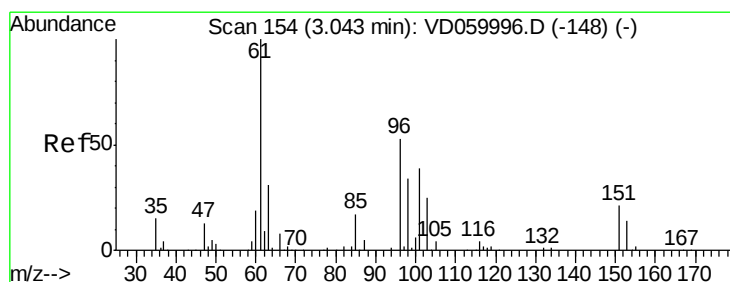
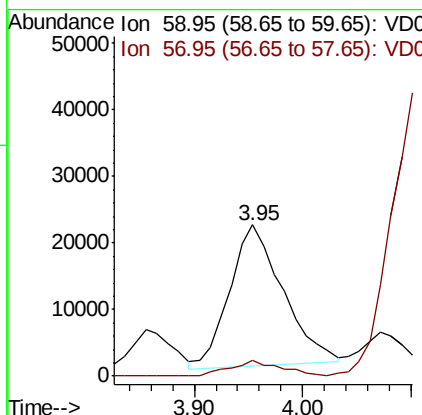
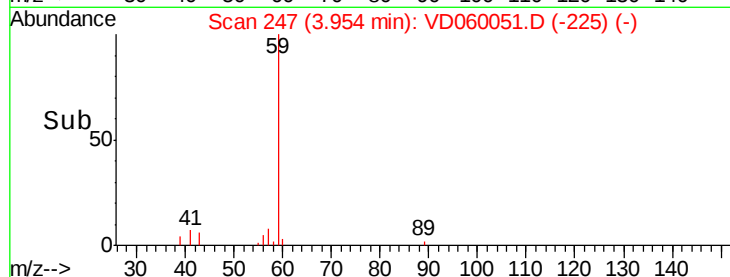
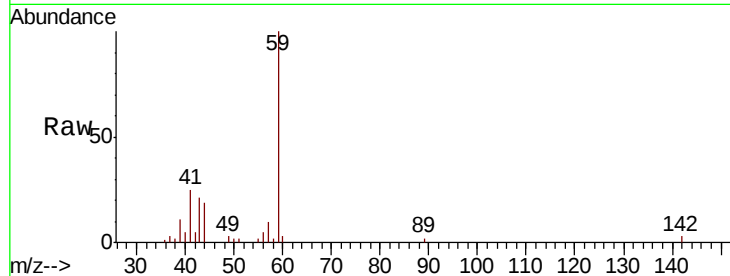


#11

Tert butyl alcohol
Concen: 72.22 ug/l
RT: 3.95 min Scan# 247
Delta R.T. 0.02 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Instrument :
MSVOA_D
ClientSampleId :
VD0920SBS01

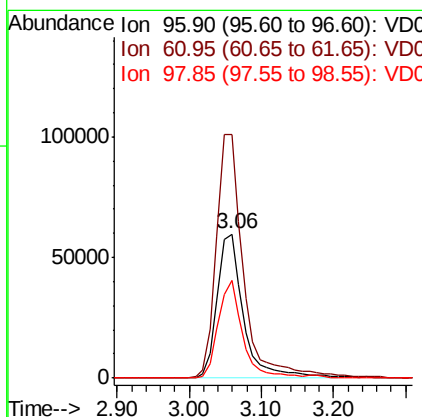
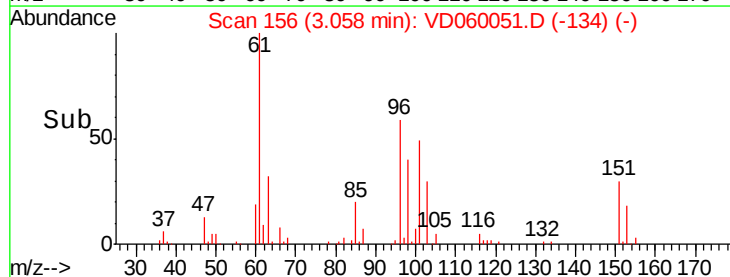
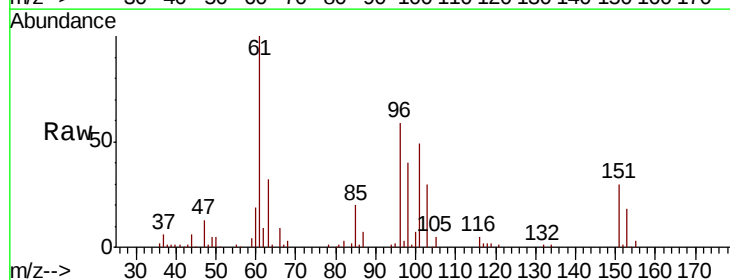
Tot Ion: 59 Resp: 72887
Ion Ratio Lower Upper
59 100
57 10.2 7.4 11.2

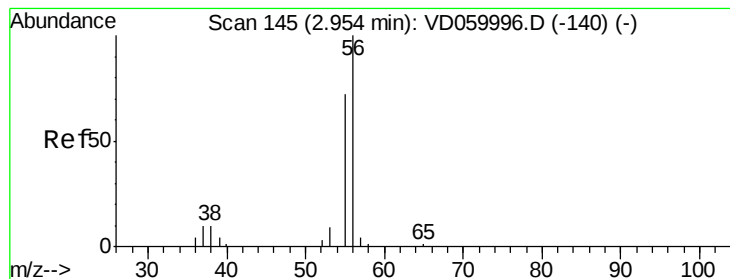


#12

1,1-Dichloroethene
Concen: 22.97 ug/l
RT: 3.06 min Scan# 156
Delta R.T. 0.02 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Tgt Ion: 96 Resp: 151582
Ion Ratio Lower Upper
96 100
61 169.3 149.8 224.6
98 67.8 50.2 75.4





#13

Acrolein

Concen: 80.70 ug/l

RT: 2.97 min Scan# 147

Delta R.T. 0.02 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

ClientSampleId :

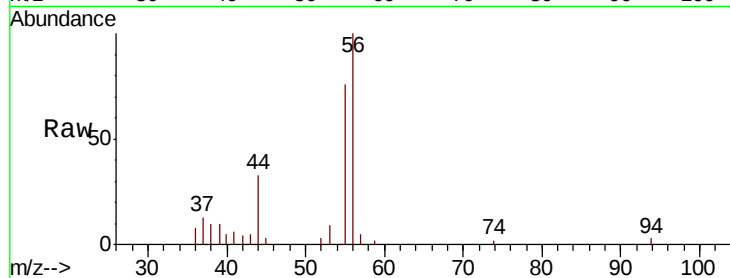
VD0920SBS01

Tot Ion: 56 Resp: 50439

Ion Ratio Lower Upper

56 100

55 75.9 58.3 87.5



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

2.97

20000

15000

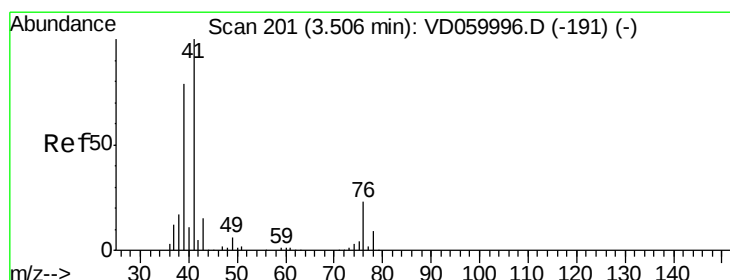
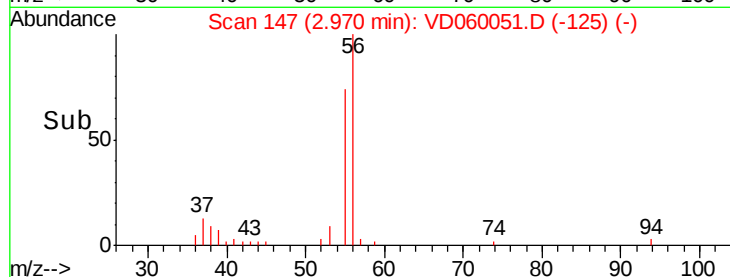
10000

5000

0

Time-->

2.90 3.00 3.10



#14

Allyl chloride

Concen: 20.86 ug/l

RT: 3.51 min Scan# 202

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

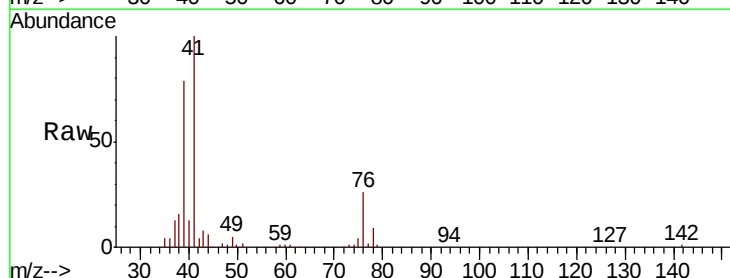
Tgt Ion: 41 Resp: 290345

Ion Ratio Lower Upper

41 100

39 79.3 63.6 95.4

76 26.2 21.1 31.7



Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC

150000

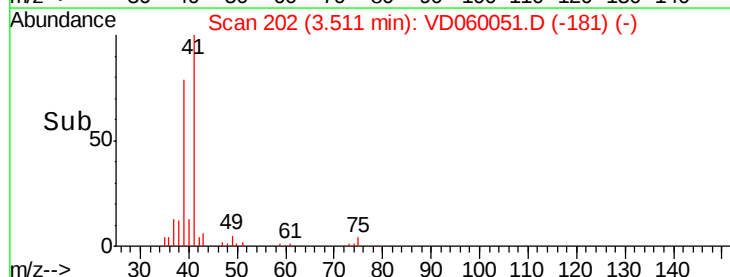
100000

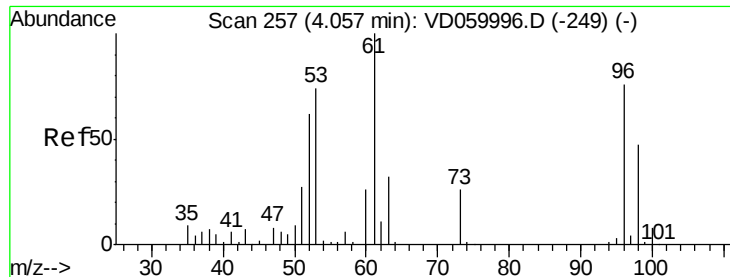
50000

0

Time-->

3.40 3.50 3.60





#15

Acrylonitrile

Concen: 95.93 ug/l

RT: 4.06 min Scan# 258

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

ClientSampleId :

VD0920SBS01

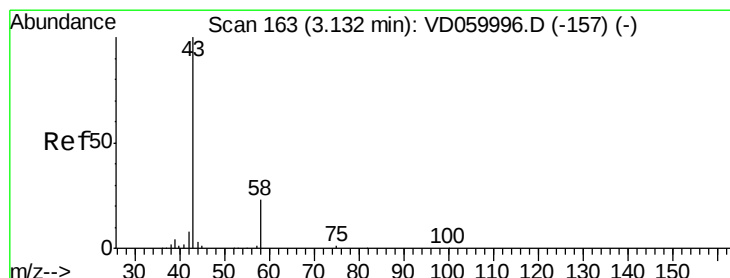
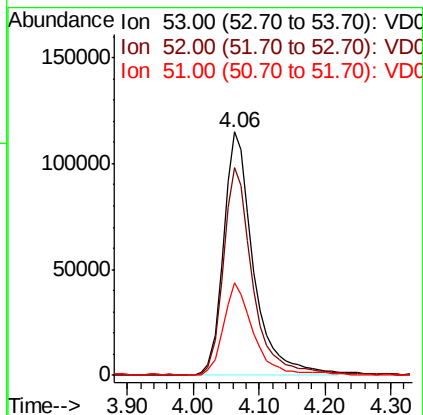
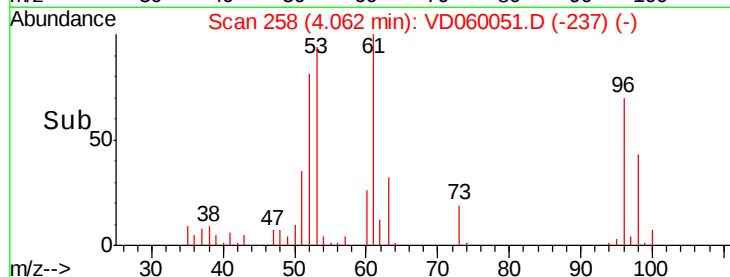
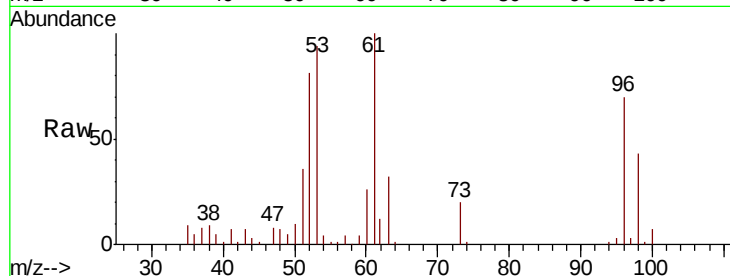
Tot Ion: 53 Resp: 365473

Ion Ratio Lower Upper

53 100

52 85.3 66.7 100.1

51 38.1 29.0 43.6



#16

Acetone

Concen: 115.86 ug/l

RT: 3.14 min Scan# 164

Delta R.T. 0.01 min

Lab File: VD060051.D

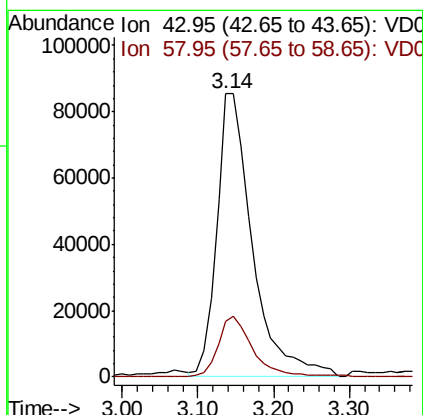
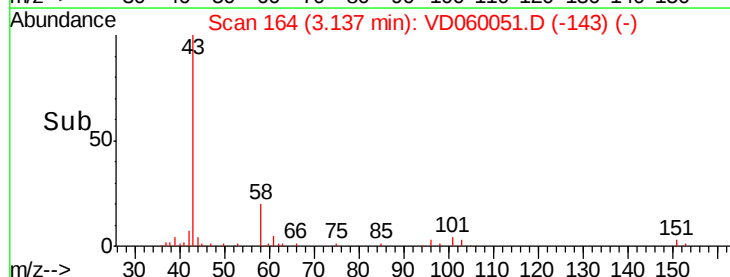
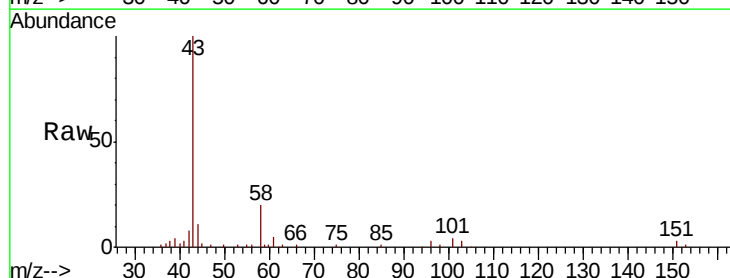
Acq: 20 Sep 2018 12:35

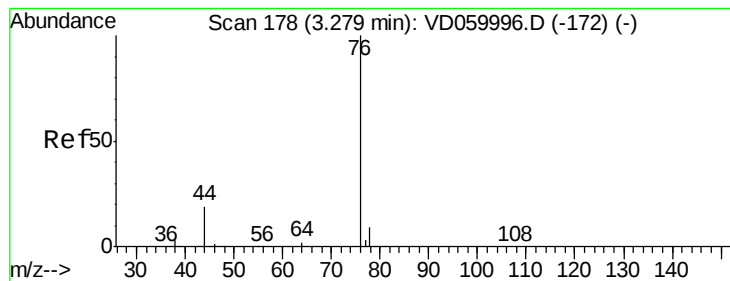
Tgt Ion: 43 Resp: 279789

Ion Ratio Lower Upper

43 100

58 19.7 18.1 27.1





#17

Carbon Disulfide

Concen: 20.31 ug/l

RT: 3.29 min Scan# 180

Delta R.T. 0.02 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

ClientSampleId :

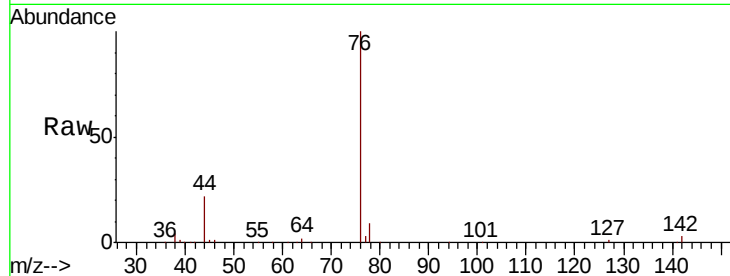
VD0920SBS01

Tot Ion: 76 Resp: 461795

Ion Ratio Lower Upper

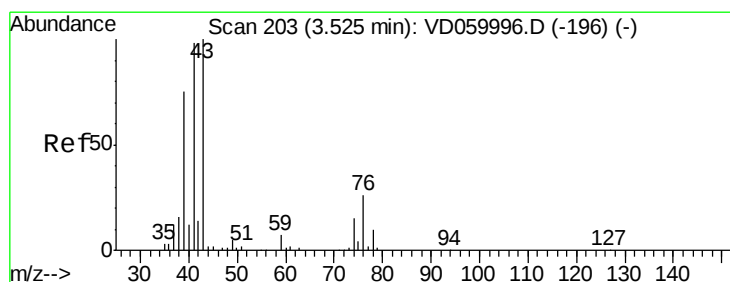
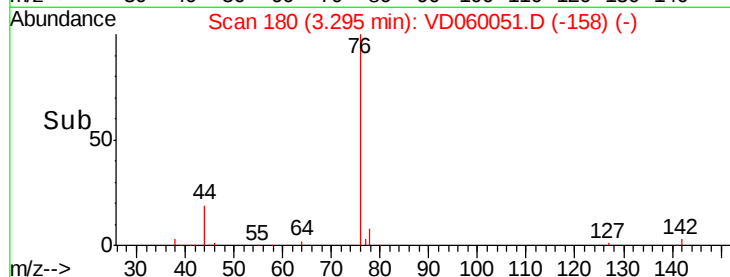
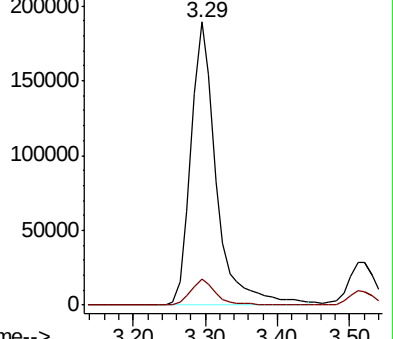
76 100

78 9.1 7.0 10.4



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 18.77 ug/l

RT: 3.54 min Scan# 205

Delta R.T. 0.02 min

Lab File: VD060051.D

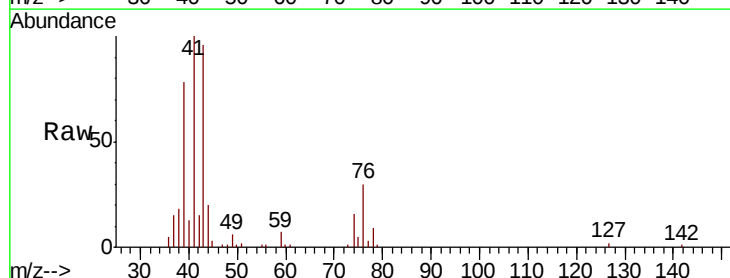
Acq: 20 Sep 2018 12:35

Tgt Ion: 43 Resp: 92202

Ion Ratio Lower Upper

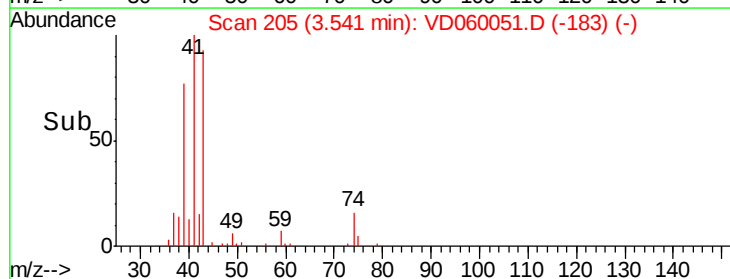
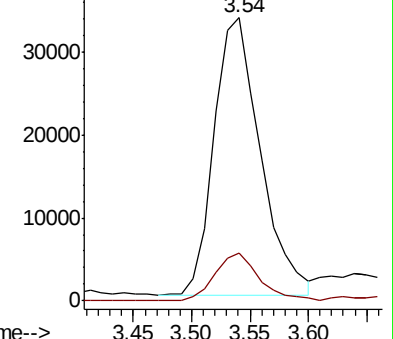
43 100

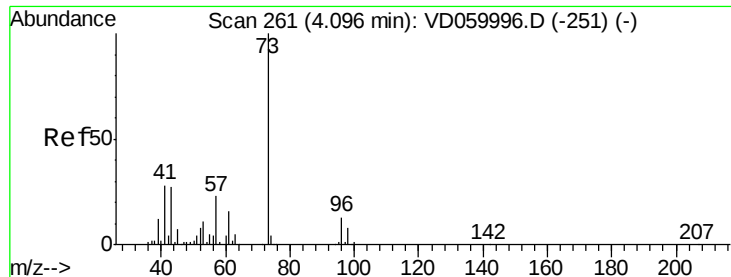
74 16.7 11.8 17.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





#19

Methyl tert-butyl Ether

Concen: 19.59 ug/l

RT: 4.10 min Scan# 262

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

ClientSampleId :

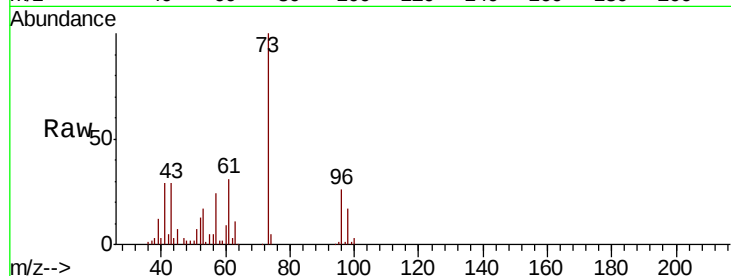
VD0920SBS01

Tot Ion: 73 Resp: 597503

Ion Ratio Lower Upper

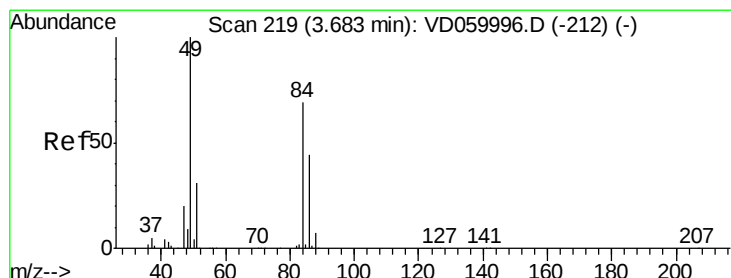
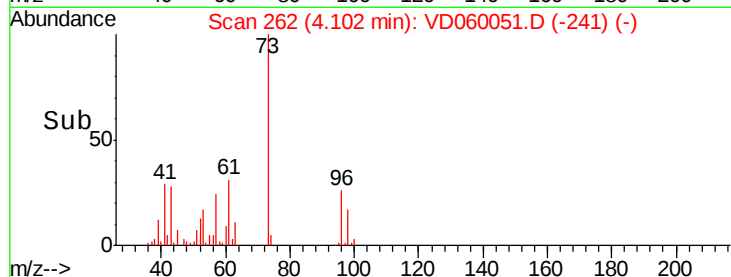
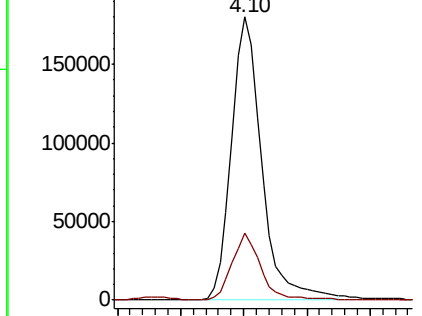
73 100

57 23.6 18.4 27.6



Abundance Ion 73.00 (72.70 to 73.70): VDC

Ion 57.05 (56.75 to 57.75): VDC



#20

Methylene Chloride

Concen: 18.60 ug/l

RT: 3.70 min Scan# 221

Delta R.T. 0.02 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Tgt Ion: 84 Resp: 397329

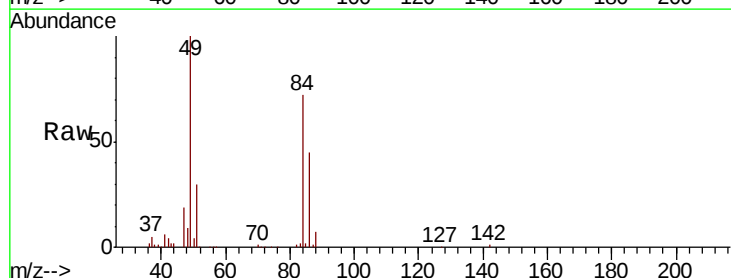
Ion Ratio Lower Upper

84 100

49 139.2 116.6 175.0

51 41.3 35.9 53.9

86 62.1 51.8 77.6

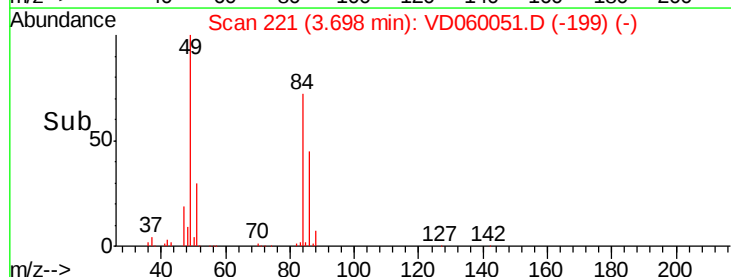
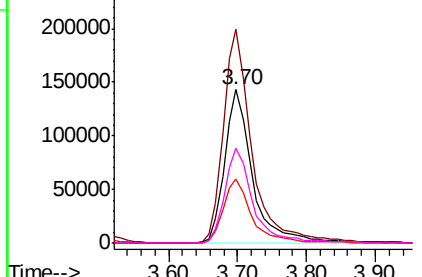


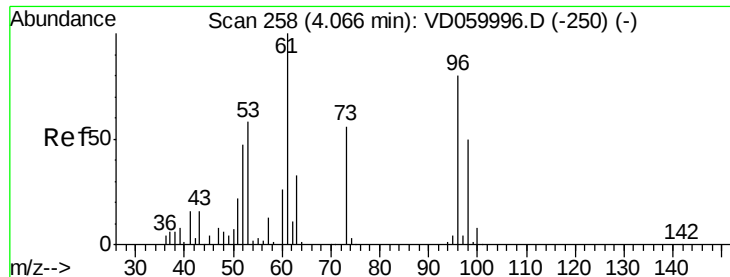
Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC





#21

trans-1,2-Dichloroethene

Concen: 20.22 ug/l

RT: 4.08 min Scan# 260

Delta R.T. 0.02 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

ClientSampleId :

VD0920SBS01

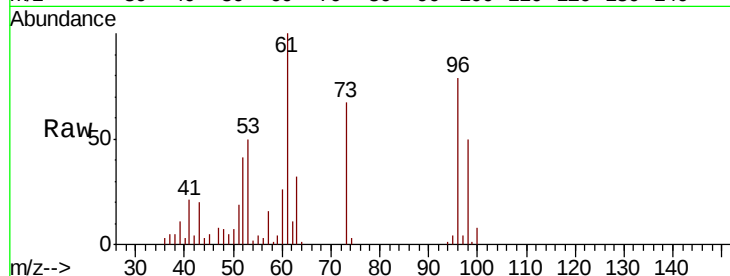
Tot Ion: 96 Resp: 350198

Ion Ratio Lower Upper

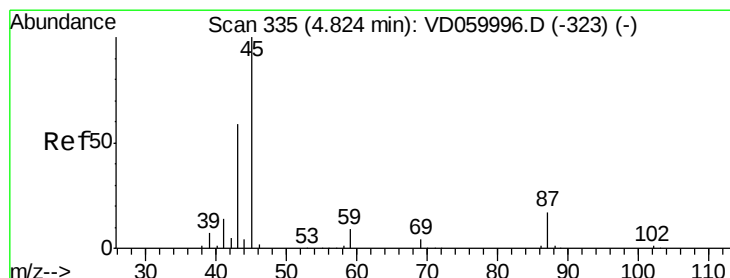
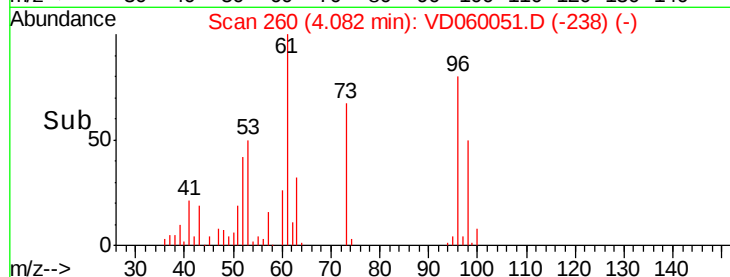
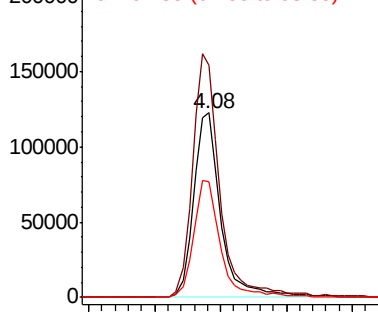
96 100

61 125.9 100.1 150.1

98 62.6 49.5 74.3



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



#22

Diisopropyl ether

Concen: 20.02 ug/l

RT: 4.83 min Scan# 336

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Tgt Ion: 45 Resp: 1270964

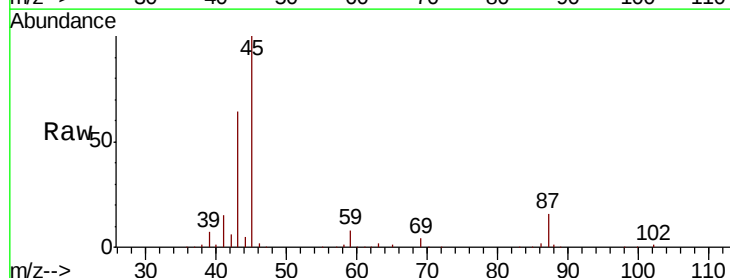
Ion Ratio Lower Upper

45 100

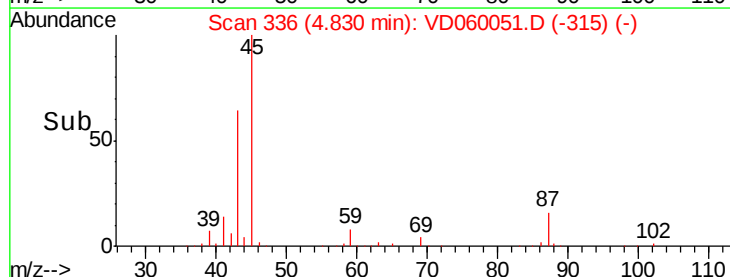
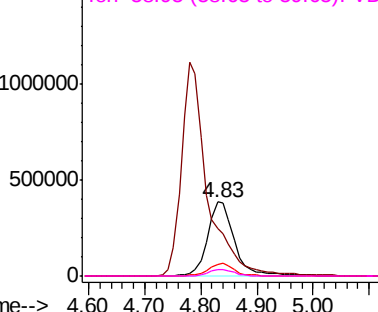
43 64.1 47.1 70.7

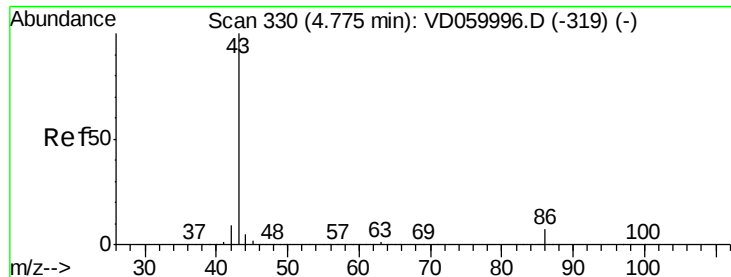
87 15.9 14.2 21.2

59 8.2 7.0 10.6



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





#23

Vinyl Acetate

Concen: 99.74 ug/l

RT: 4.78 min Scan# 331

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

ClientSampleId :

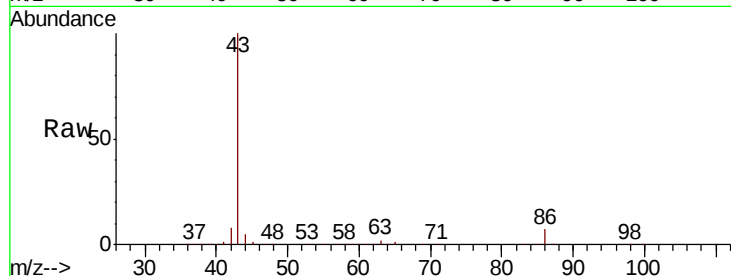
VD0920SBS01

Tot Ion: 43 Resp: 3587355

Ion Ratio Lower Upper

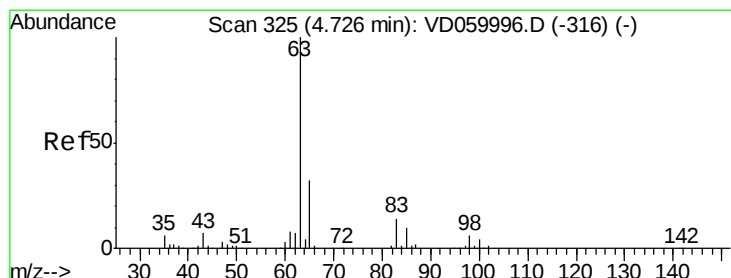
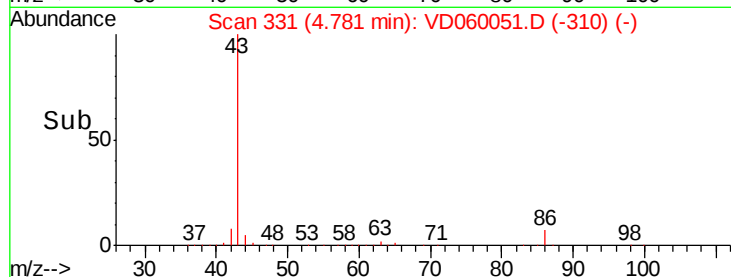
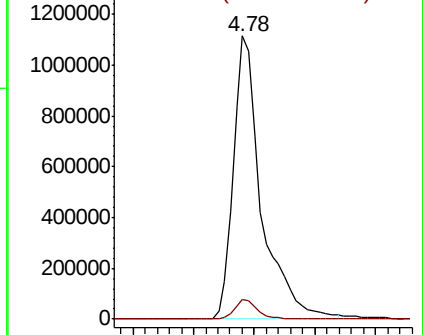
43 100

86 6.8 5.5 8.3



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 20.49 ug/l

RT: 4.73 min Scan# 326

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

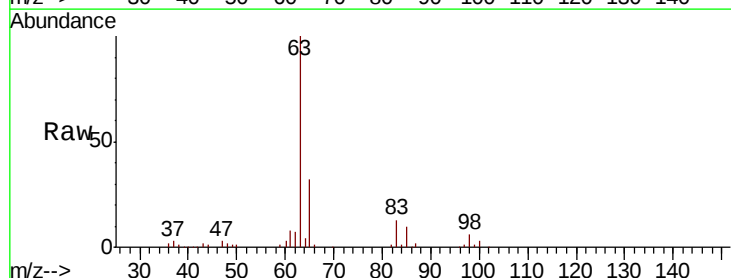
Tgt Ion: 63 Resp: 583821

Ion Ratio Lower Upper

63 100

98 5.6 2.9 8.6

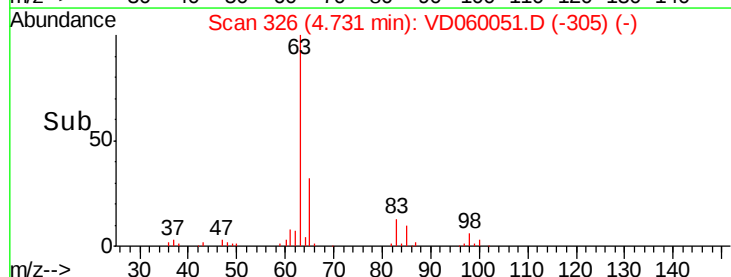
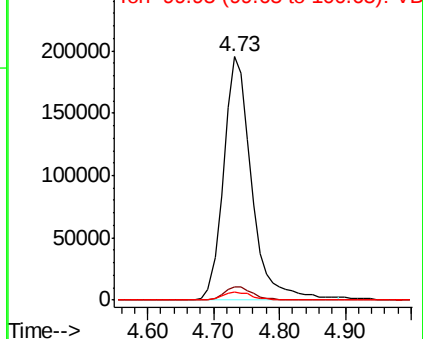
100 3.5 1.8 5.4

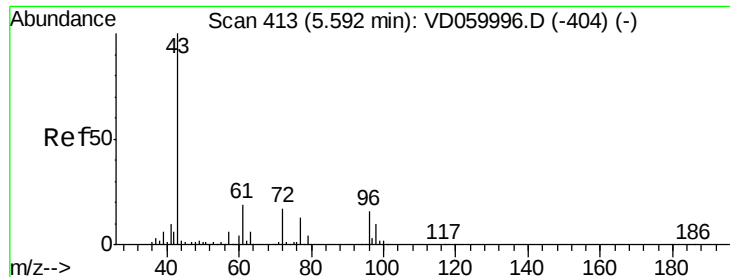


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 107.20 ug/l

RT: 5.61 min Scan# 415

Delta R.T. 0.02 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

ClientSampleId :

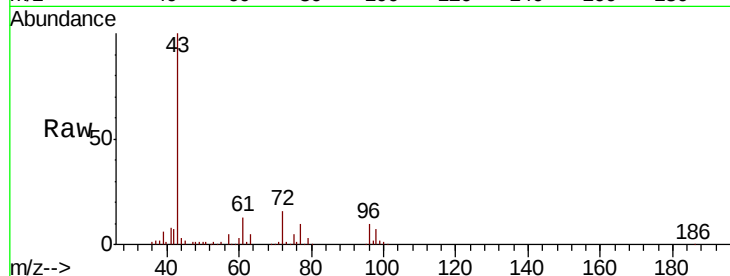
VD0920SBS01

Tot Ion: 43 Resp: 698591

Ion Ratio Lower Upper

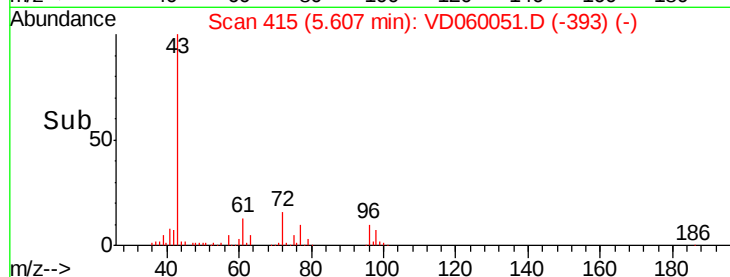
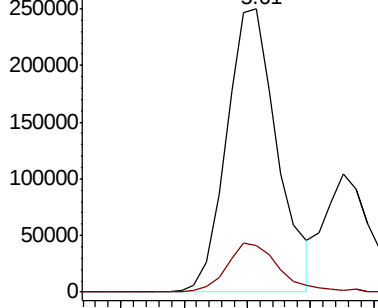
43 100

72 16.3 13.6 20.4

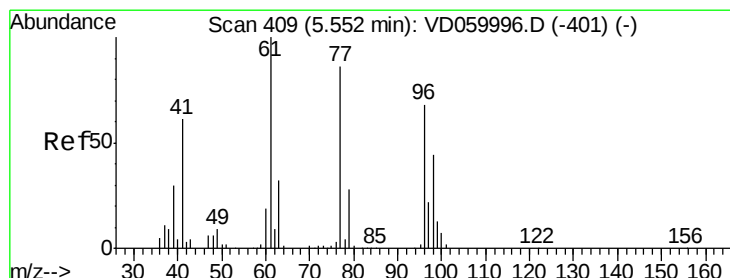


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



Time-->



#26

2,2-Dichloropropane

Concen: 21.21 ug/l

RT: 5.57 min Scan# 411

Delta R.T. 0.02 min

Lab File: VD060051.D

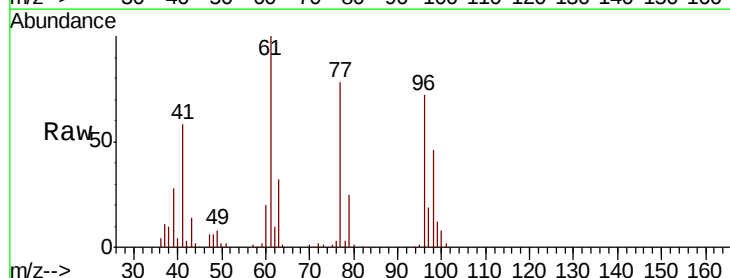
Acq: 20 Sep 2018 12:35

Tgt Ion: 77 Resp: 469902

Ion Ratio Lower Upper

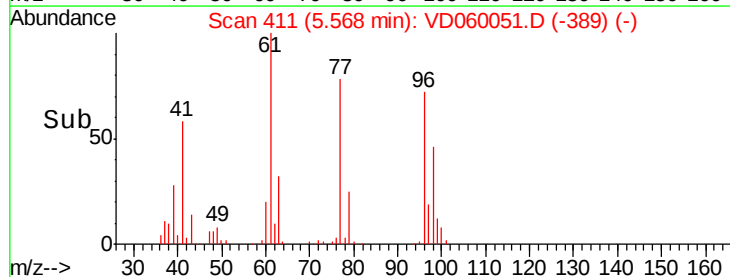
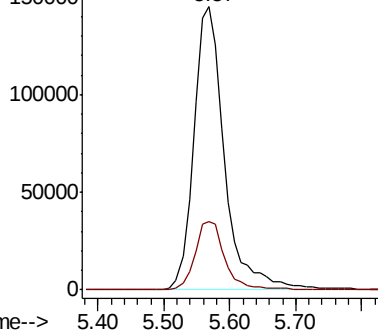
77 100

97 24.2 12.7 38.1

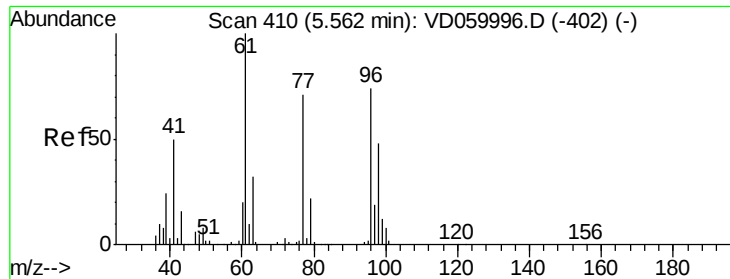


Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



Time-->



#27

cis-1,2-Dichloroethene

Concen: 20.37 ug/l

RT: 5.58 min Scan# 412

Delta R.T. 0.02 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

ClientSampleId :

VD0920SBS01

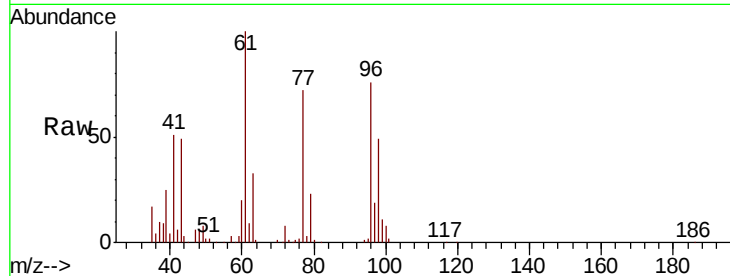
Tot Ion: 96 Resp: 368968

Ion Ratio Lower Upper

96 100

61 131.3 0.0 269.6

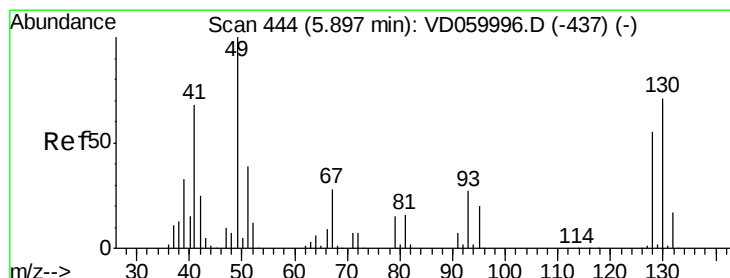
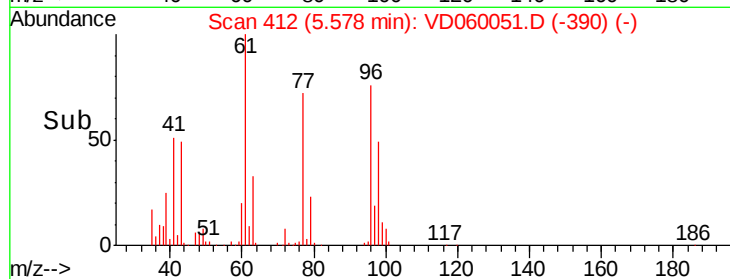
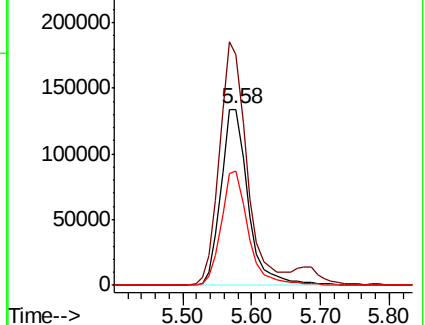
98 64.9 0.0 128.4



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



#28

Bromochloromethane

Concen: 20.11 ug/l

RT: 5.90 min Scan# 445

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

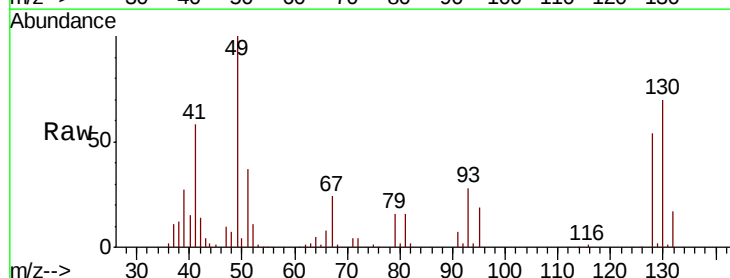
Tgt Ion: 49 Resp: 275428

Ion Ratio Lower Upper

49 100

129 1.9 0.0 3.6

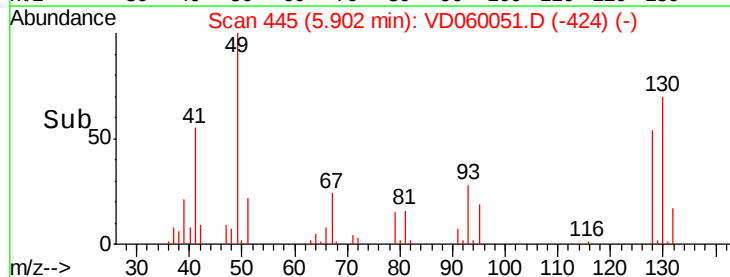
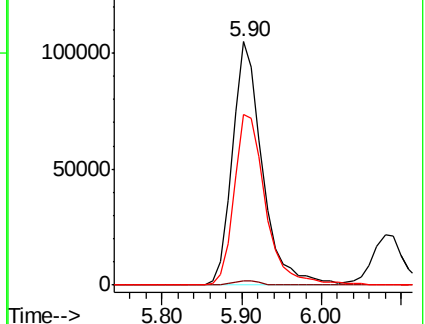
130 69.9 57.1 85.7



Abundance Ion 48.90 (48.60 to 49.60): VDC

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

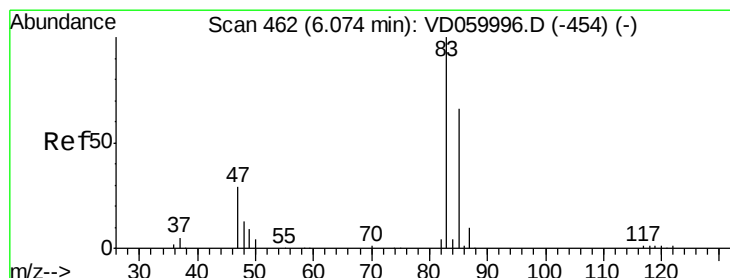
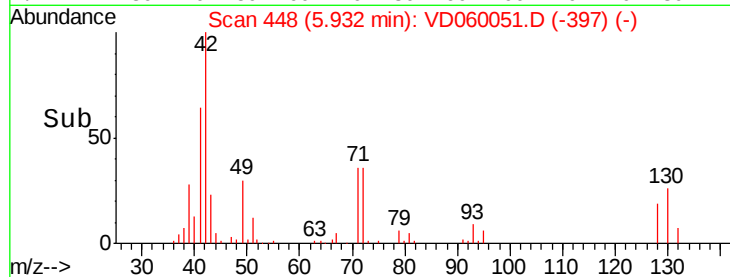
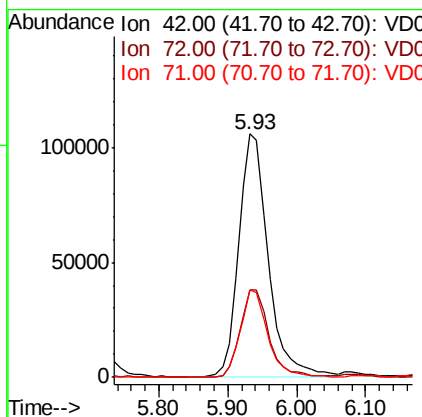
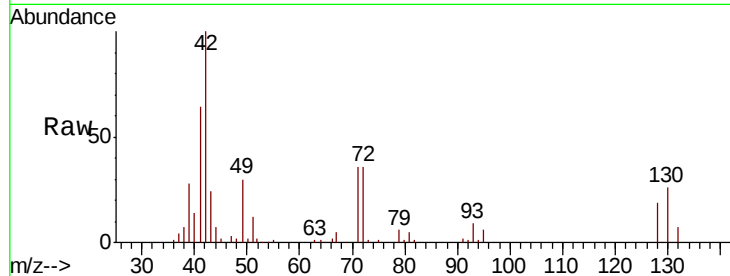




#29
Tetrahydrofuran
Concen: 90.43 ug/l
RT: 5.93 min Scan# 448
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

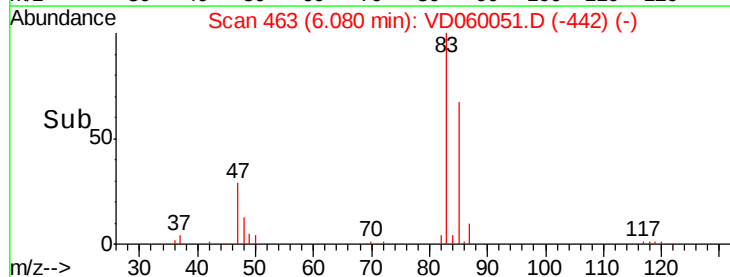
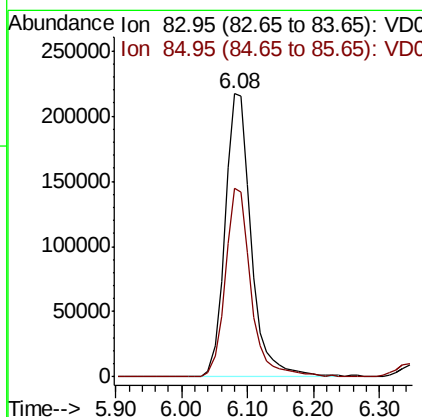
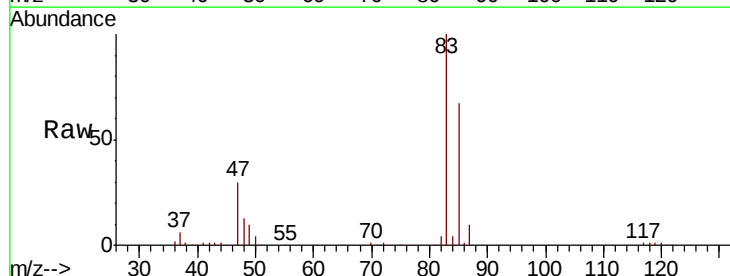
Instrument :
MSVOA_D
ClientSampleId :
VD0920SBS01

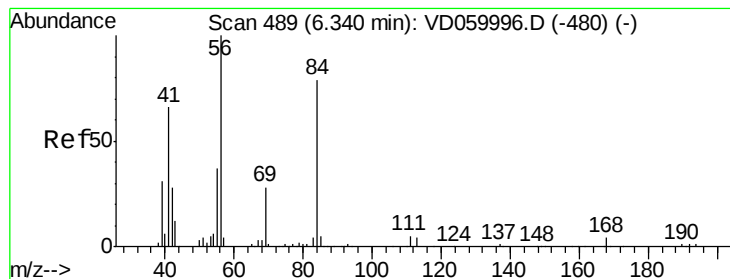
Tot Ion: 42 Resp: 316048
Ion Ratio Lower Upper
42 100
72 34.6 26.9 40.3
71 33.6 26.2 39.4



#30
Chloroform
Concen: 20.86 ug/l
RT: 6.08 min Scan# 463
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Tgt Ion: 83 Resp: 602698
Ion Ratio Lower Upper
83 100
85 66.6 52.6 78.8





#31

Cvclohexane

Concen: 19.79 ug/l

RT: 6.35 min Scan# 490

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

ClientSampleId :

VD0920SBS01

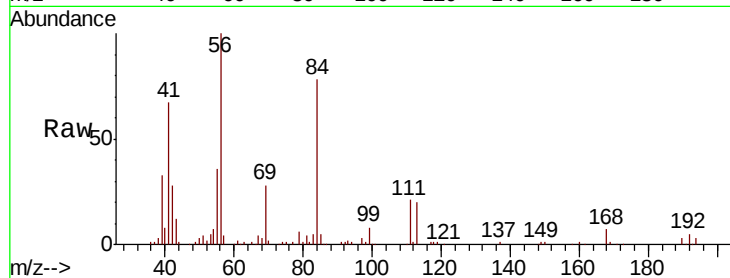
Tot Ion: 56 Resp: 549820

Ion Ratio Lower Upper

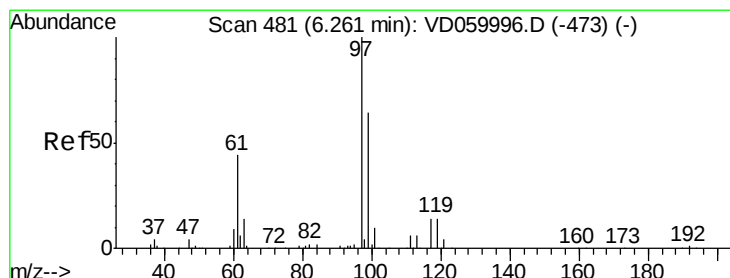
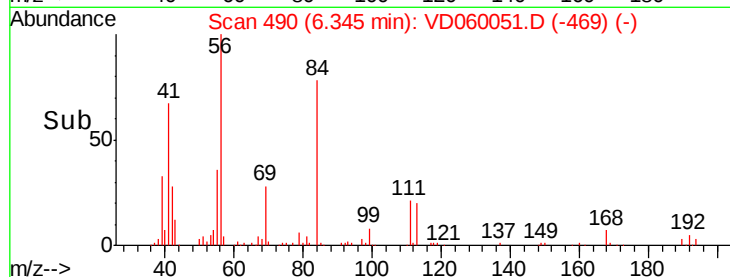
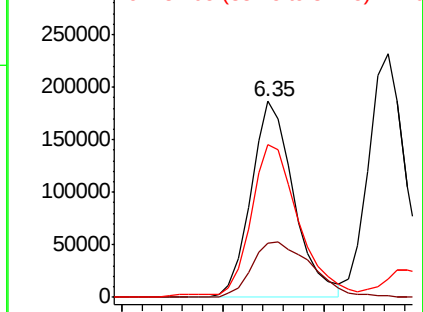
56 100

69 27.6 22.7 34.1

84 77.9 64.0 96.0



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: 19.81 ug/l

RT: 6.28 min Scan# 483

Delta R.T. 0.02 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

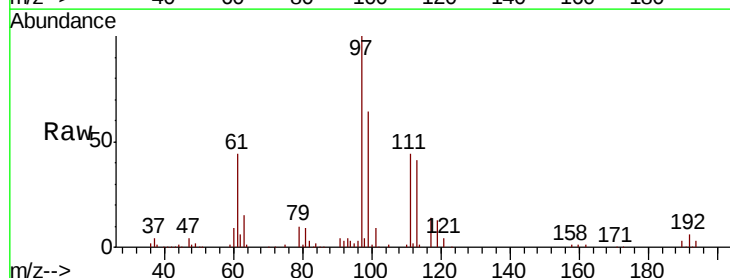
Tgt Ion: 97 Resp: 474637

Ion Ratio Lower Upper

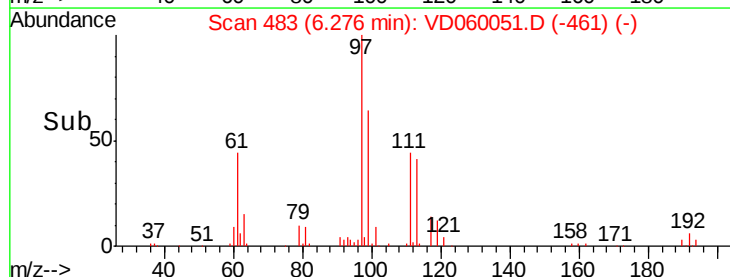
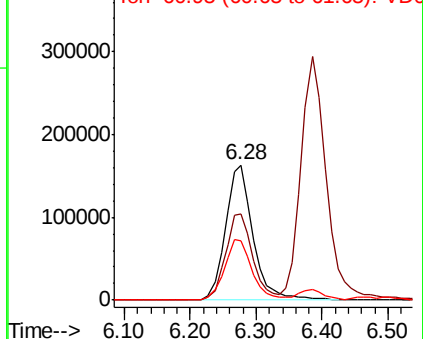
97 100

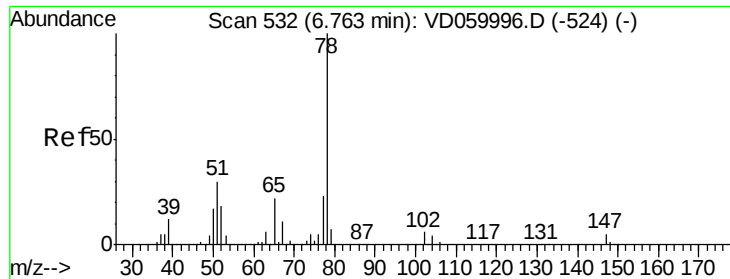
99 63.7 51.3 76.9

61 44.1 35.5 53.3



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





#33

1,2-Dichloroethane-d4

Concen: 19.81 ug/l

RT: 6.77 min Scan# 533

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

ClientSampleId :

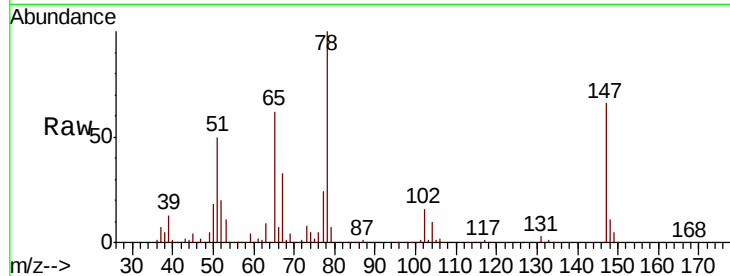
VD0920SBS01

Tot Ion: 65 Resp: 665752

Ion Ratio Lower Upper

65 100

67 53.6 0.0 104.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

6.77

250000

200000

150000

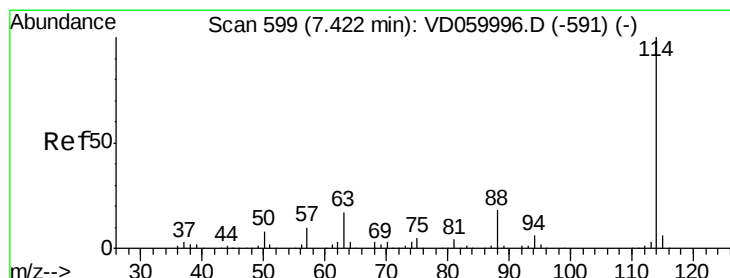
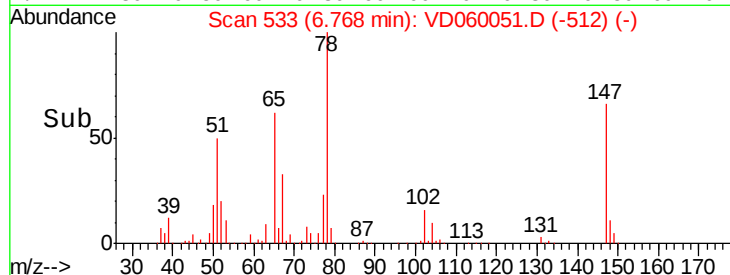
100000

50000

0

Time-->

6.70 6.80 6.90



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 7.43 min Scan# 600

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

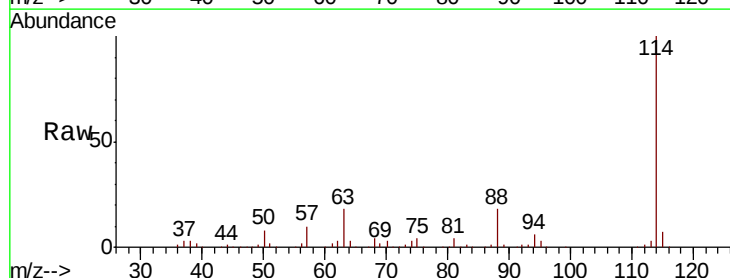
Tgt Ion:114 Resp: 2182542

Ion Ratio Lower Upper

114 100

63 17.7 0.0 34.4

88 18.3 0.0 35.8



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

1200000

1000000

800000

600000

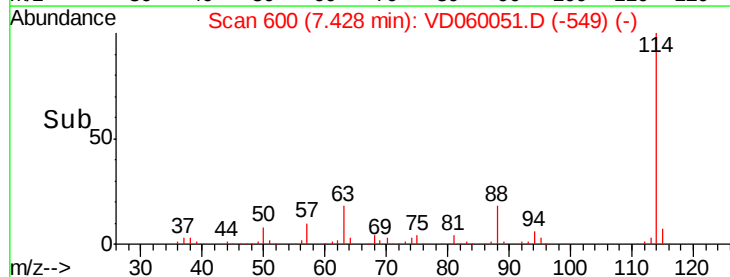
400000

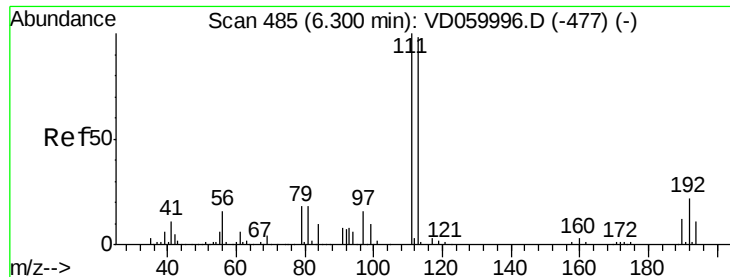
200000

0

Time-->

7.30 7.40 7.50 7.60 7.70

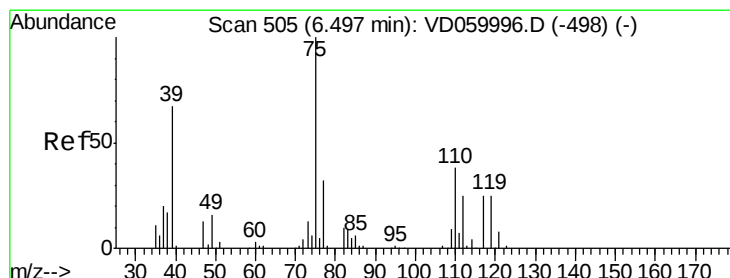
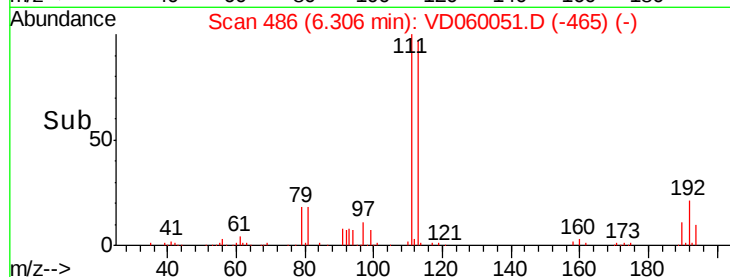
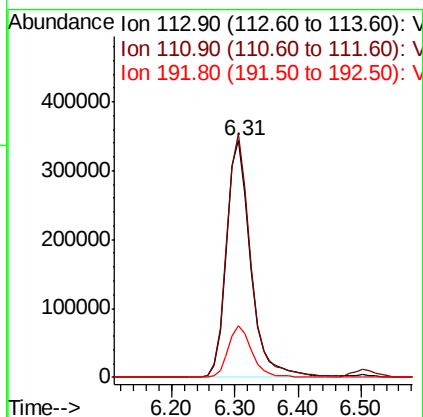
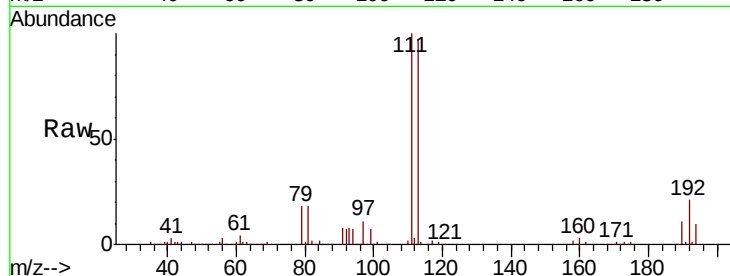




#35
 Dibromofluoromethane
 Concen: 50.00 ug/l
 RT: 6.31 min Scan# 486
 Delta R.T. 0.01 min
 Lab File: VD060051.D
 Acq: 20 Sep 2018 12:35

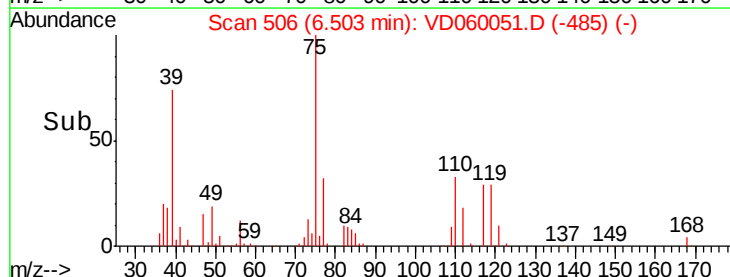
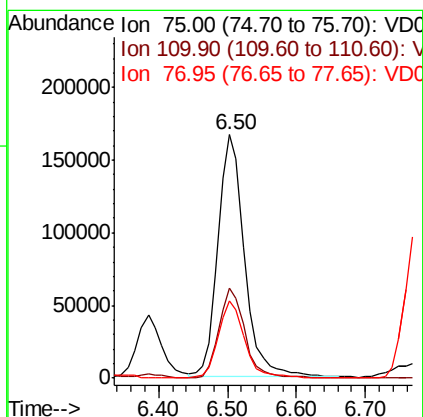
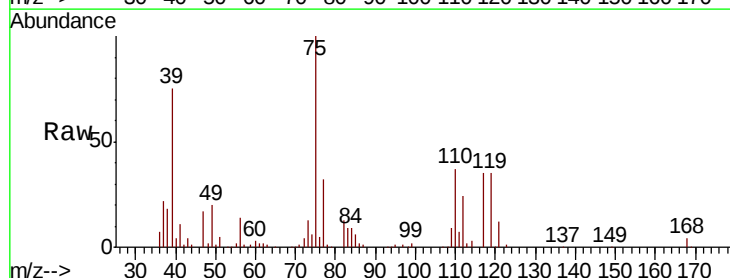
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0920SBS01

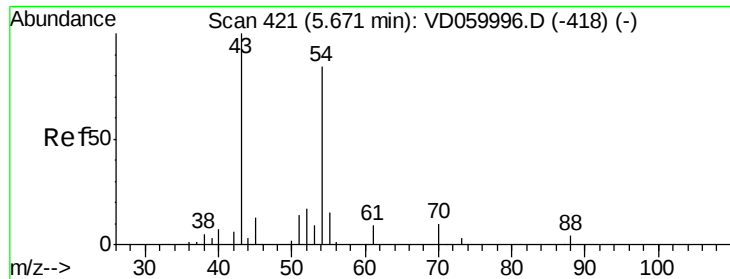
Tot Ion:113 Resp: 903510
 Ion Ratio Lower Upper
 113 100
 111 102.8 81.3 121.9
 192 21.8 18.1 27.1



#36
 1,1-Dichloropropene
 Concen: 20.38 ug/l
 RT: 6.50 min Scan# 506
 Delta R.T. 0.01 min
 Lab File: VD060051.D
 Acq: 20 Sep 2018 12:35

Tgt Ion: 75 Resp: 441897
 Ion Ratio Lower Upper
 75 100
 110 37.0 18.9 56.9
 77 31.9 25.3 37.9

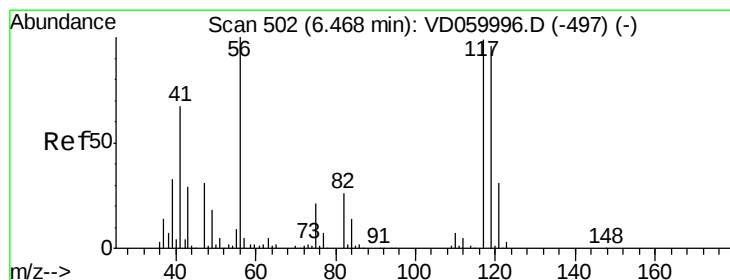
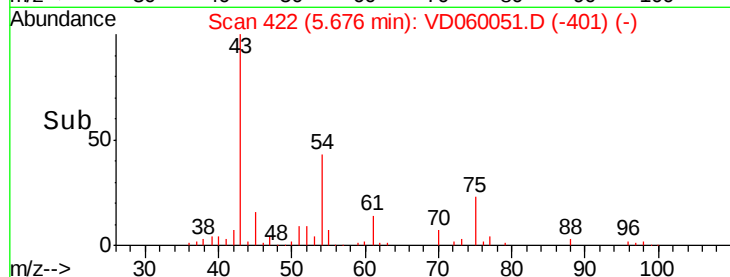
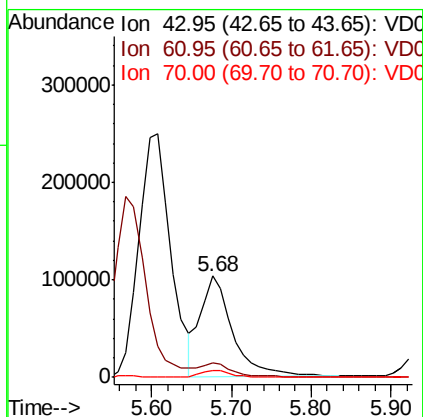
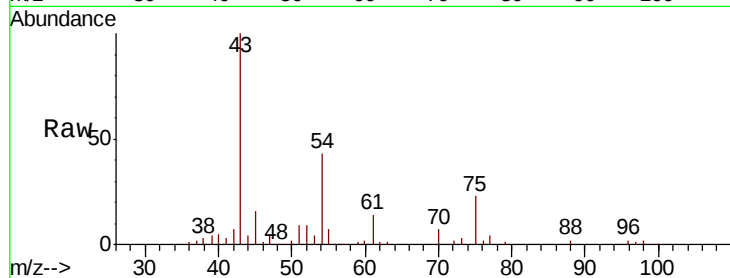




#37
Ethyl Acetate
Concen: 19.33 ug/l
RT: 5.68 min Scan# 422
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

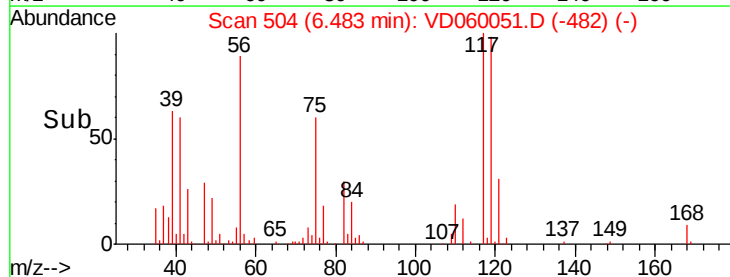
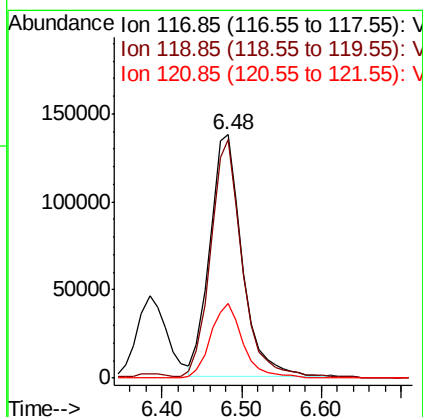
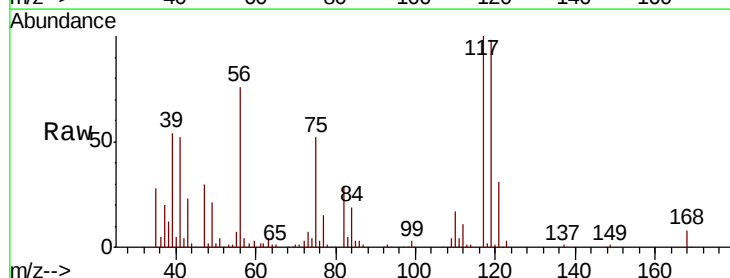
Instrument :
MSVOA_D
ClientSampleID :
VD0920SBS01

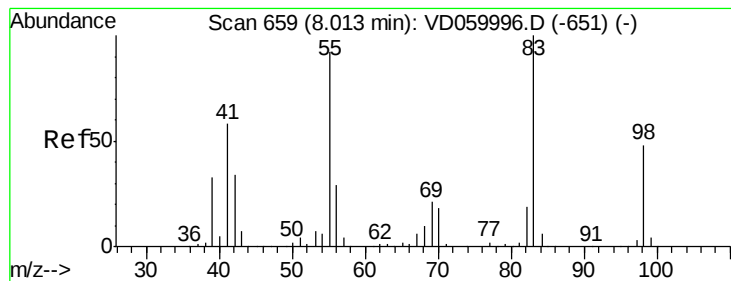
Tot Ion: 43 Resp: 288209
Ion Ratio Lower Upper
43 100
61 13.8 10.2 15.2
70 7.0 6.1 9.1



#38
Carbon Tetrachloride
Concen: 19.29 ug/l
RT: 6.48 min Scan# 504
Delta R.T. 0.02 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Tgt Ion: 117 Resp: 390375
Ion Ratio Lower Upper
117 100
119 98.1 76.7 115.1
121 30.8 24.9 37.3





#39

Methylcyclohexane

Concen: 20.35 ug/l

RT: 8.02 min Scan# 660

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

ClientSampleID :

VD0920SBS01

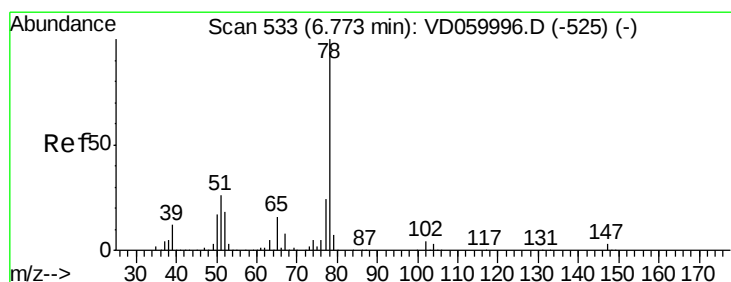
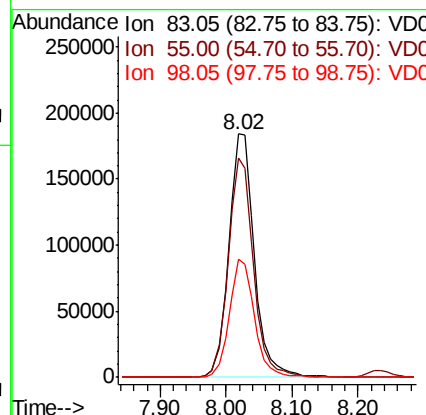
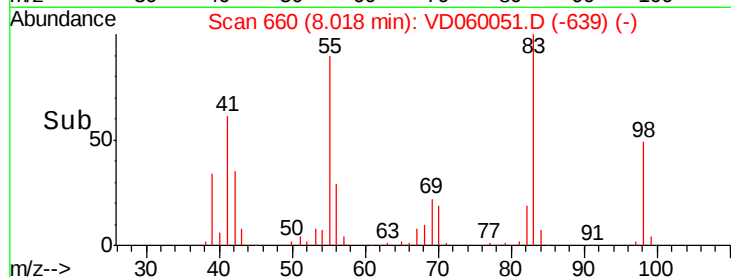
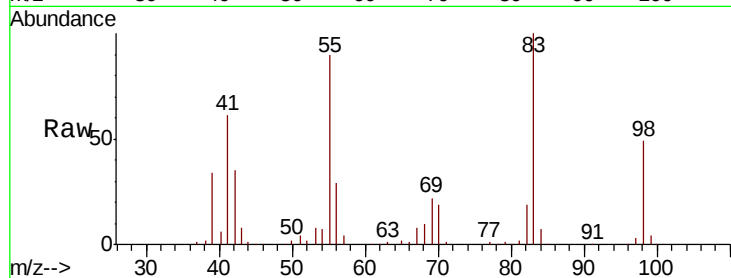
Tot Ion: 83 Resp: 499020

Ion Ratio Lower Upper

83 100

55 89.9 73.8 110.6

98 48.5 38.1 57.1



#40

Benzene

Concen: 21.04 ug/l

RT: 6.78 min Scan# 534

Delta R.T. 0.01 min

Lab File: VD060051.D

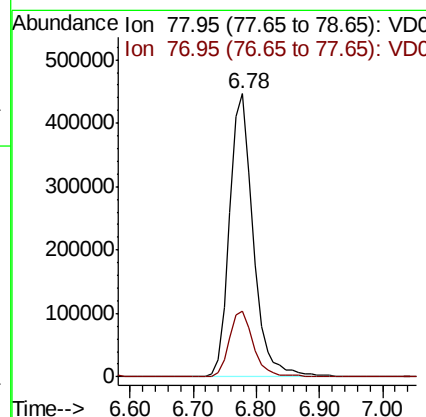
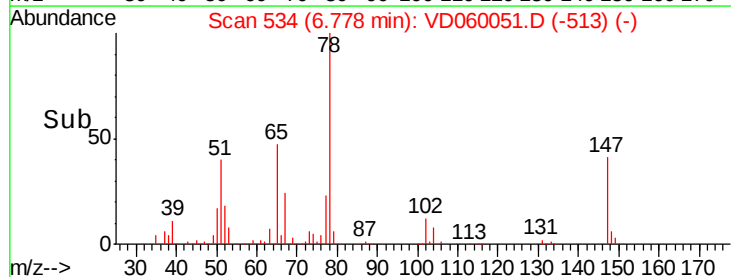
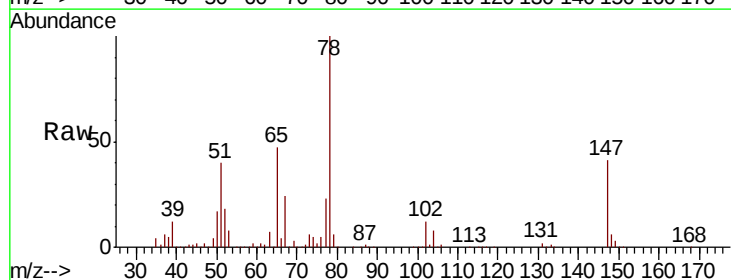
Acq: 20 Sep 2018 12:35

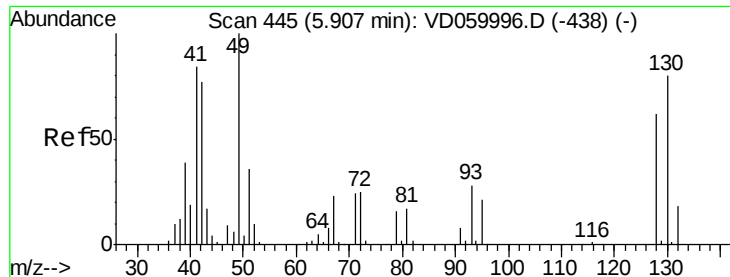
Tgt Ion: 78 Resp: 1162570

Ion Ratio Lower Upper

78 100

77 23.4 19.0 28.4

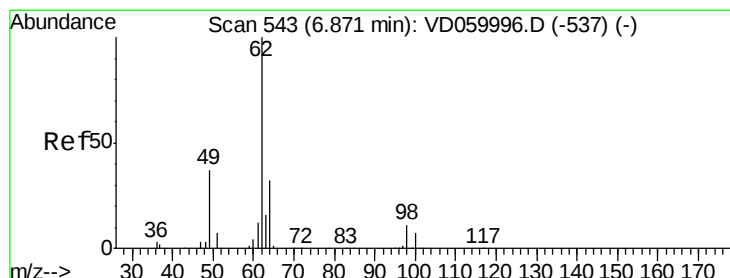
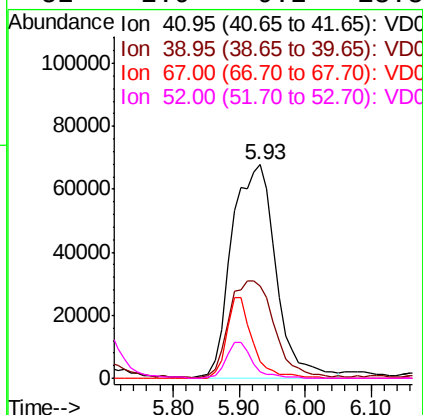
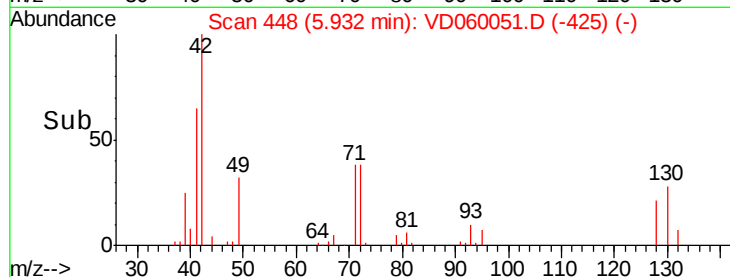
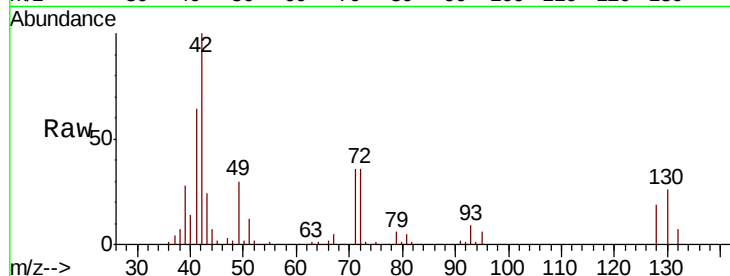




#41
Methacrylonitrile
Concen: 40.86 ug/l
RT: 5.93 min Scan# 448
Delta R.T. 0.03 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

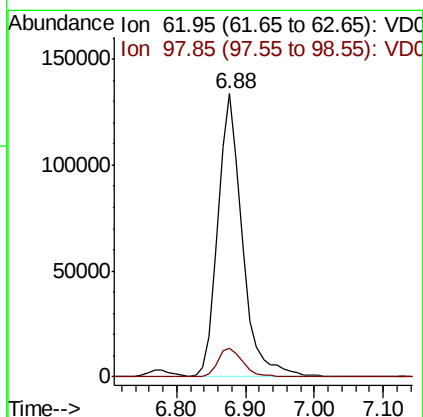
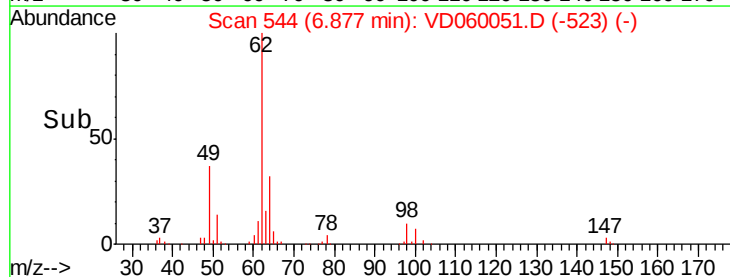
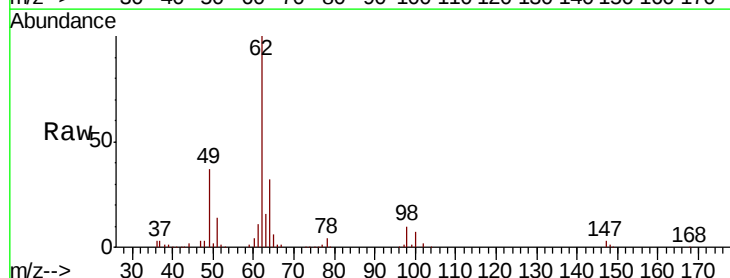
Instrument :
MSVOA_D
ClientSampleId :
VD0920SBS01

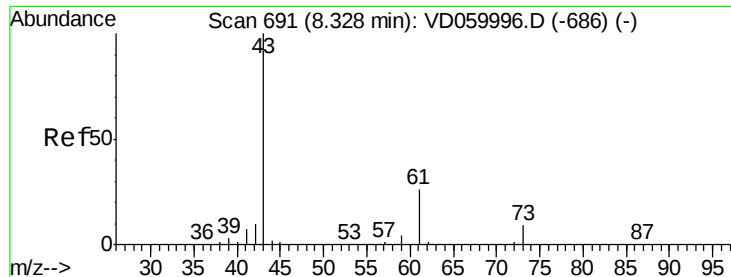
Tot Ion: 41 Resp: 319101
Ion Ratio Lower Upper
41 100
39 43.4 37.5 56.3
67 8.0 21.5 32.3#
52 2.9 9.2 13.8#



#42
1,2-Dichloroethane
Concen: 19.78 ug/l
RT: 6.88 min Scan# 544
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Tgt Ion: 62 Resp: 328228
Ion Ratio Lower Upper
62 100
98 10.0 0.0 21.4





#43

Isopropyl Acetate

Concen: 18.77 ug/l

RT: 8.33 min Scan# 692

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

ClientSampleId :

VD0920SBS01

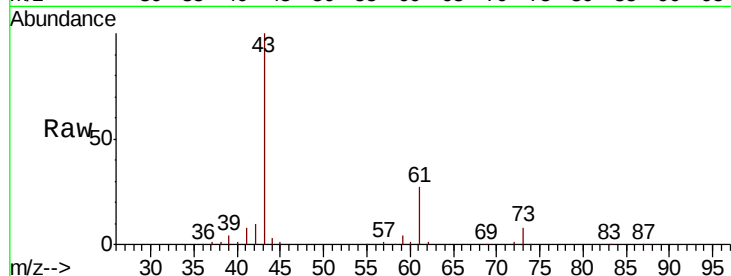
Tot Ion: 43 Resp: 374742

Ion Ratio Lower Upper

43 100

61 26.9 21.0 31.6

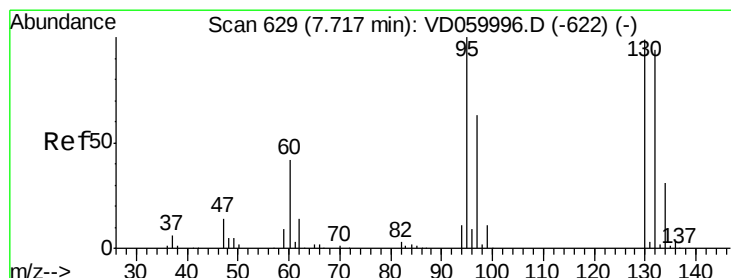
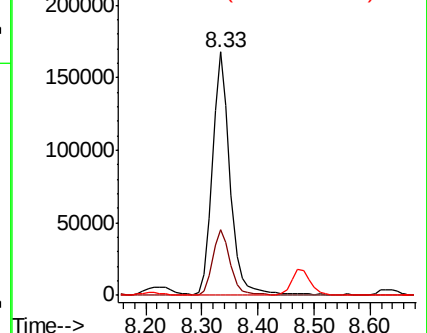
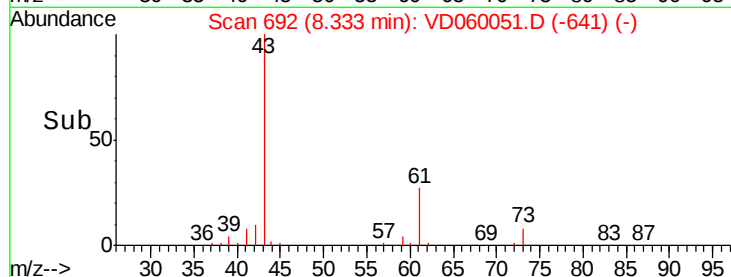
87 0.3 0.2 0.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 19.86 ug/l

RT: 7.72 min Scan# 630

Delta R.T. 0.01 min

Lab File: VD060051.D

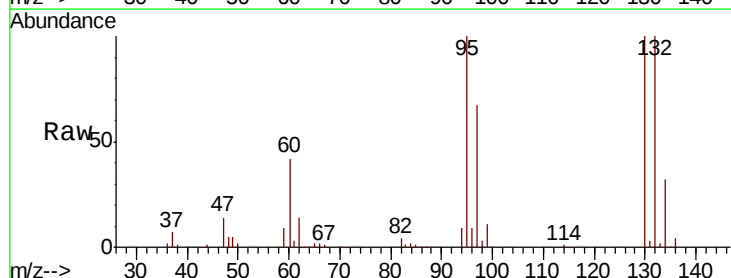
Acq: 20 Sep 2018 12:35

Tgt Ion:130 Resp: 339028

Ion Ratio Lower Upper

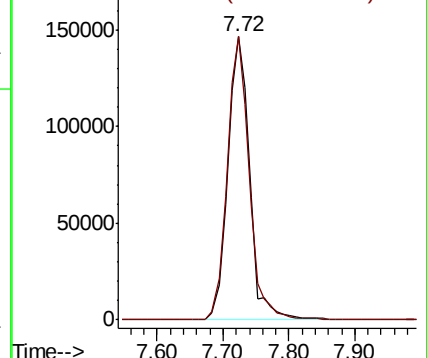
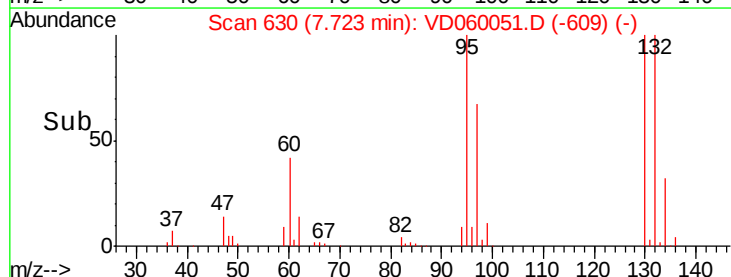
130 100

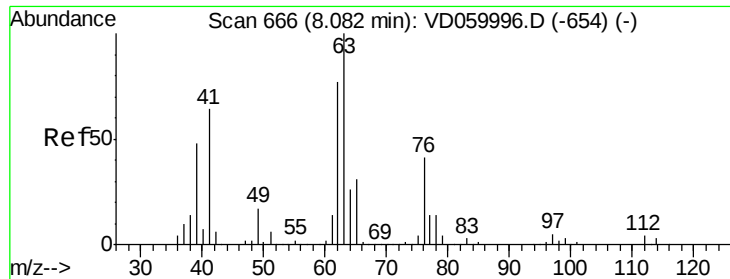
95 99.9 0.0 202.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC

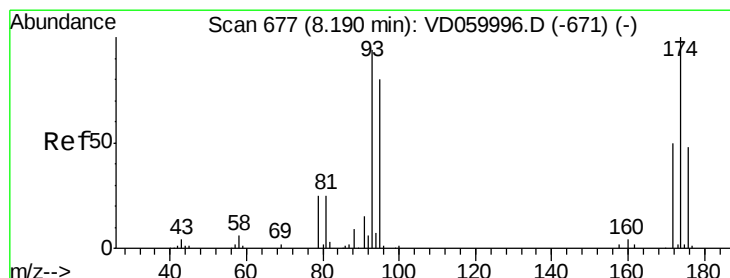
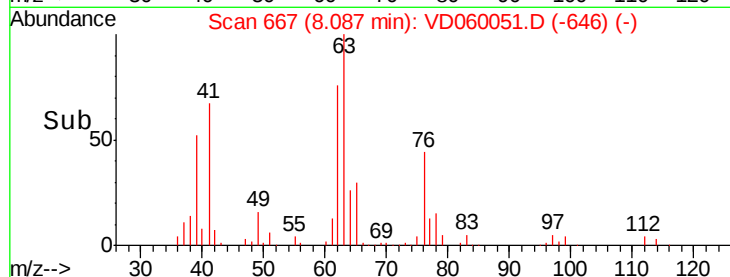
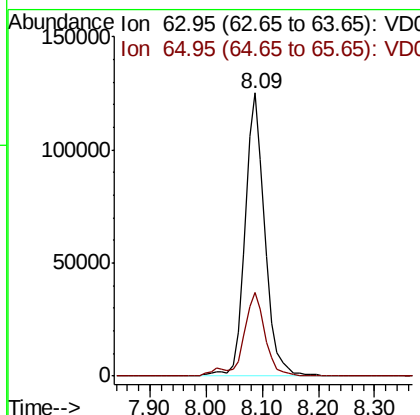
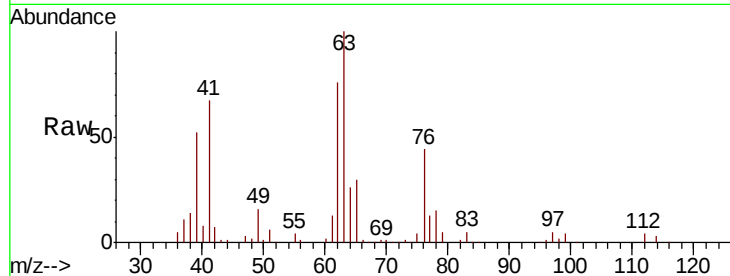




#45
 1,2-Dichloropropane
 Concen: 20.61 ug/l
 RT: 8.09 min Scan# 667
 Delta R.T. 0.01 min
 Lab File: VD060051.D
 Acq: 20 Sep 2018 12:35

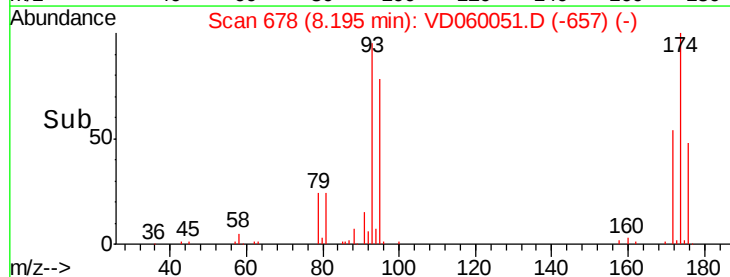
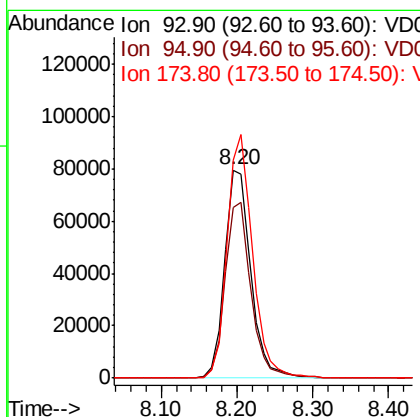
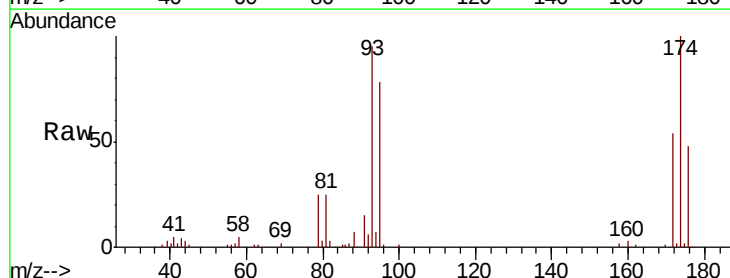
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0920SBS01

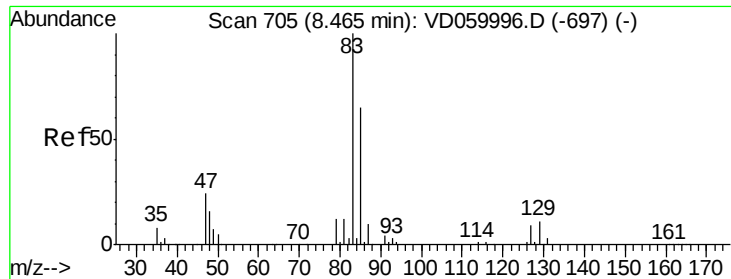
Tot Ion: 63 Resp: 304500
 Ion Ratio Lower Upper
 63 100
 65 29.7 24.6 37.0



#46
 Dibromomethane
 Concen: 19.61 ug/l
 RT: 8.20 min Scan# 678
 Delta R.T. 0.01 min
 Lab File: VD060051.D
 Acq: 20 Sep 2018 12:35

Tgt Ion: 93 Resp: 189086
 Ion Ratio Lower Upper
 93 100
 95 81.8 68.0 102.0
 174 104.8 85.4 128.2





#47

Bromodichloromethane

Concen: 20.23 ug/l

RT: 8.47 min Scan# 706

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

ClientSampleId :

VD0920SBS01

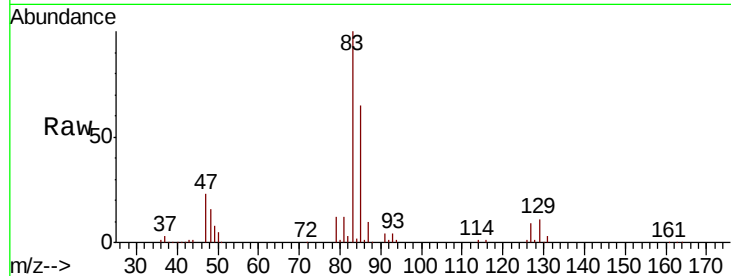
Tot Ion: 83 Resp: 420498

Ion Ratio Lower Upper

83 100

85 65.2 51.9 77.9

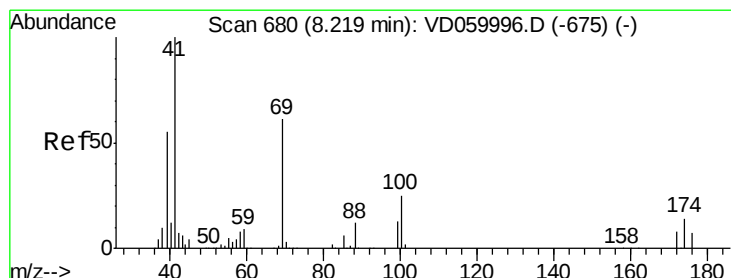
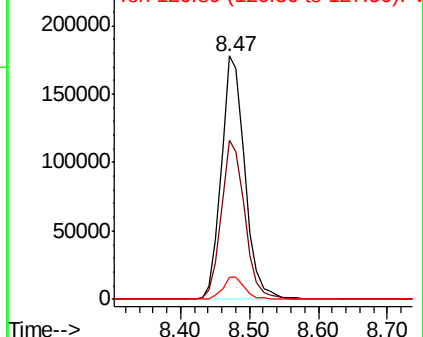
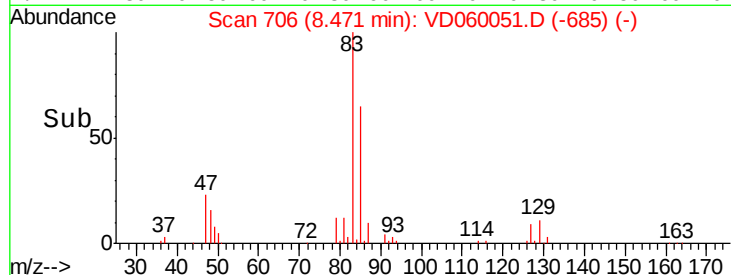
127 9.0 6.8 10.2



Abundance Ion 82.85 (82.55 to 83.55): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 126.80 (126.50 to 127.50): VDC



#48

Methyl methacrylate

Concen: 18.86 ug/l

RT: 8.22 min Scan# 681

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

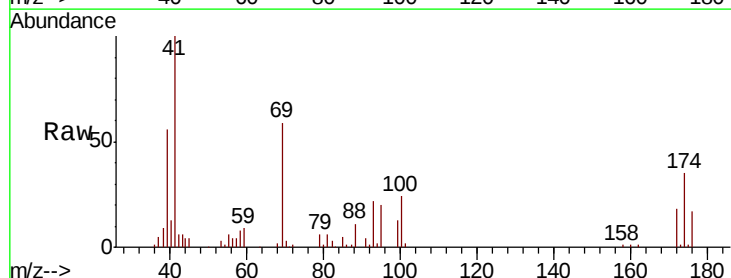
Tgt Ion: 41 Resp: 209650

Ion Ratio Lower Upper

41 100

69 59.0 48.3 72.5

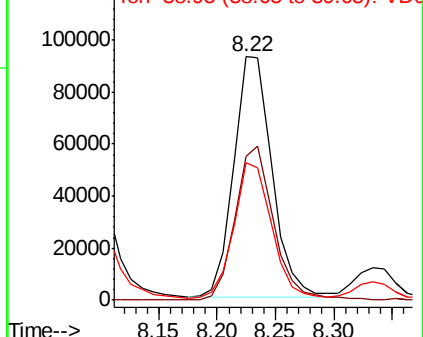
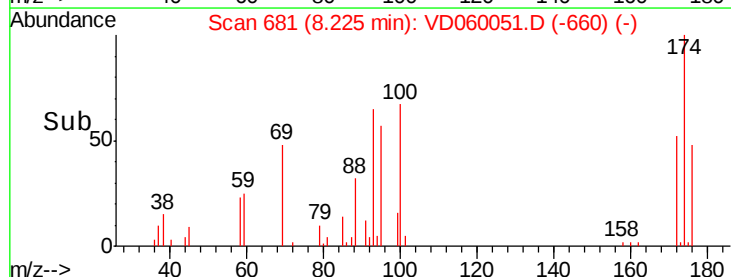
39 56.3 44.1 66.1

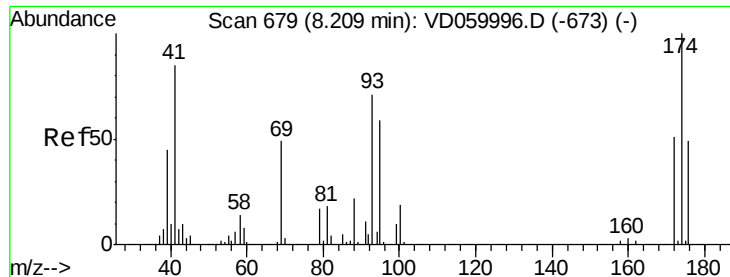


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 38.95 (38.65 to 39.65): VDC





#49

1,4-Dioxane

Concen: 356.49 ug/l

RT: 8.22 min Scan# 680

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

ClientSampleId :

VD0920SBS01

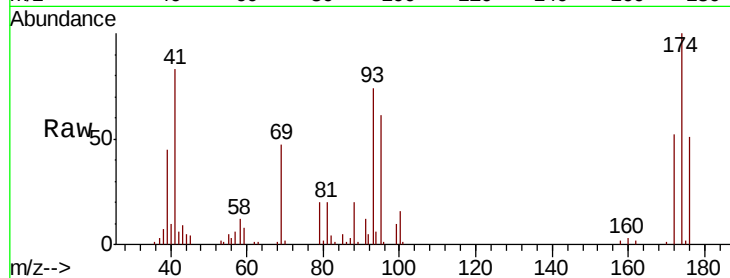
Tot Ion: 88 Resp: 39364

Ion Ratio Lower Upper

88 100

43 42.7 36.2 54.2

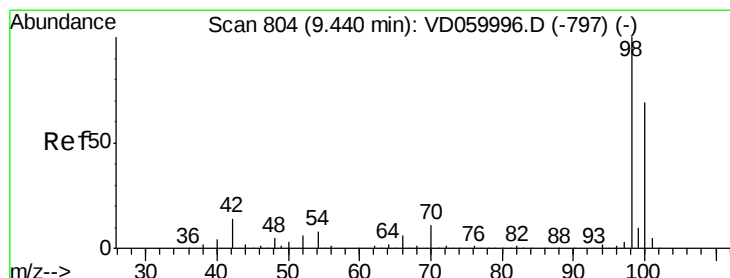
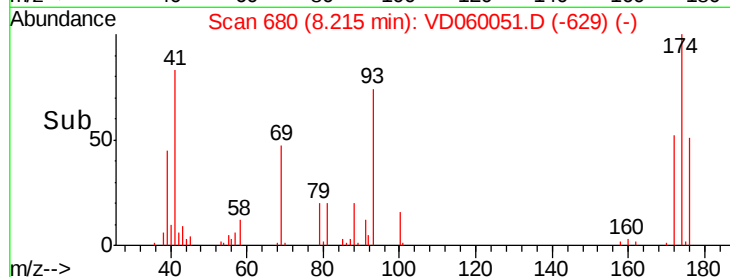
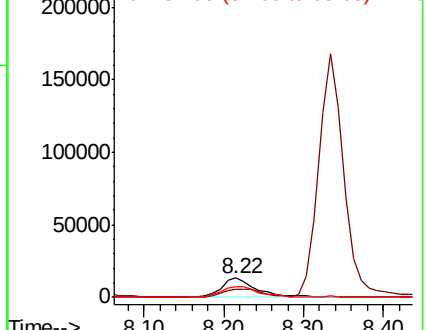
58 58.7 51.0 76.6



Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC



#50

Toluene-d8

Concen: 356.49 ug/l

RT: 9.45 min Scan# 805

Delta R.T. 0.01 min

Lab File: VD060051.D

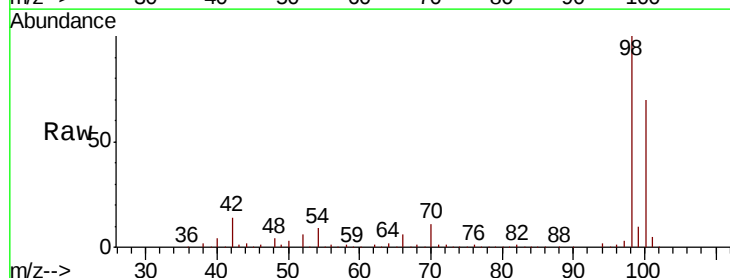
Acq: 20 Sep 2018 12:35

Tgt Ion: 98 Resp: 2498400

Ion Ratio Lower Upper

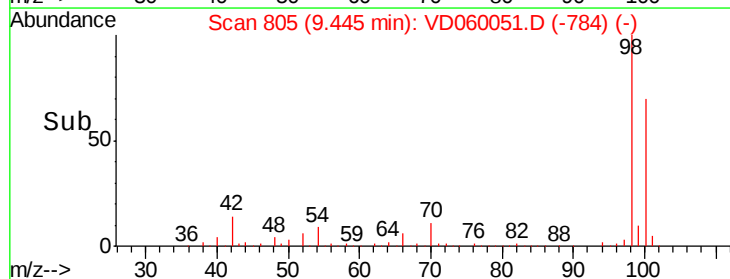
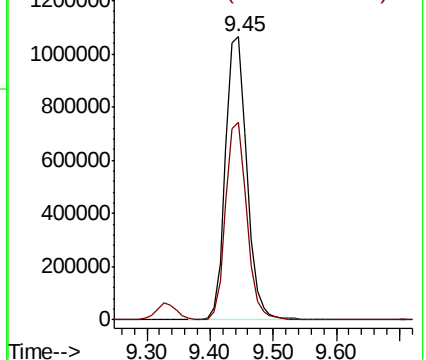
98 100

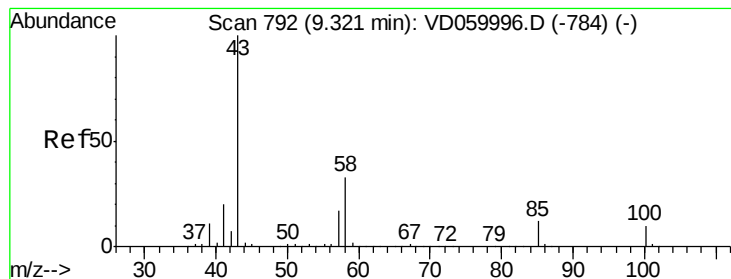
100 69.9 55.8 83.6



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC





#51

4-Methyl-2-Pentanone

Concen: 96.14 ug/l

RT: 9.33 min Scan# 793

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

ClientSampleId :

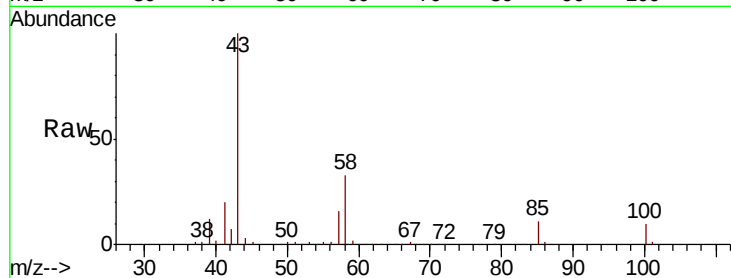
VD0920SBS01

Tot Ion: 43 Resp: 1422987

Ion Ratio Lower Upper

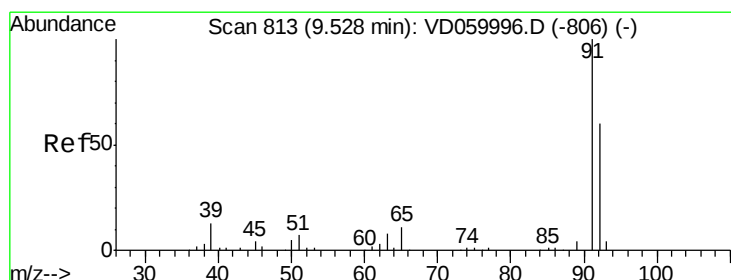
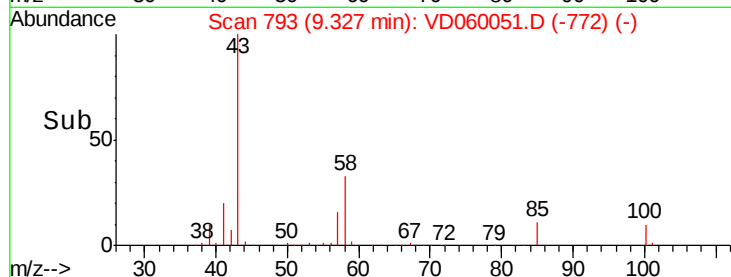
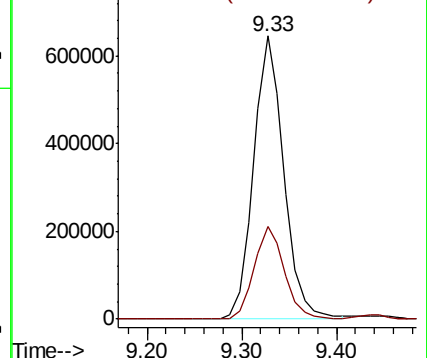
43 100

58 33.0 26.4 39.6



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 20.13 ug/l

RT: 9.53 min Scan# 814

Delta R.T. 0.01 min

Lab File: VD060051.D

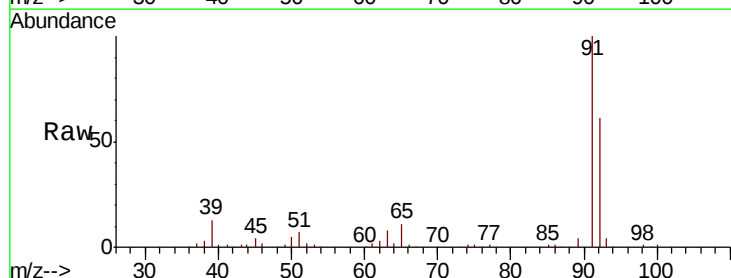
Acq: 20 Sep 2018 12:35

Tgt Ion: 92 Resp: 712879

Ion Ratio Lower Upper

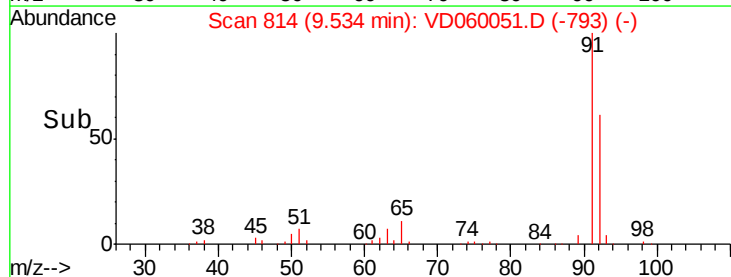
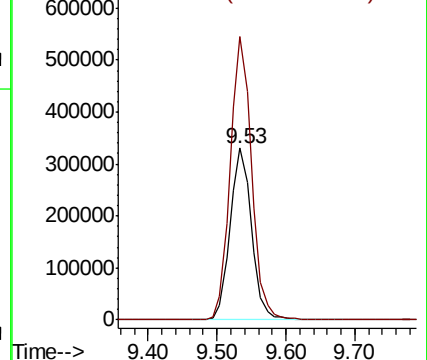
92 100

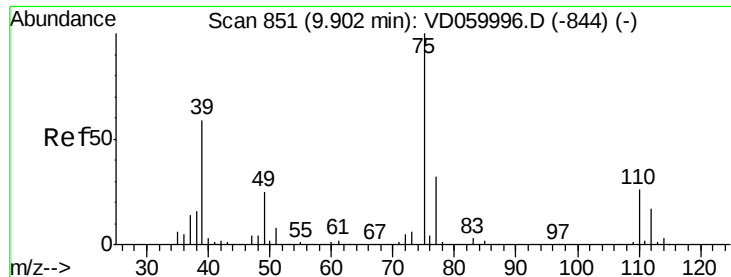
91 164.9 132.3 198.5



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

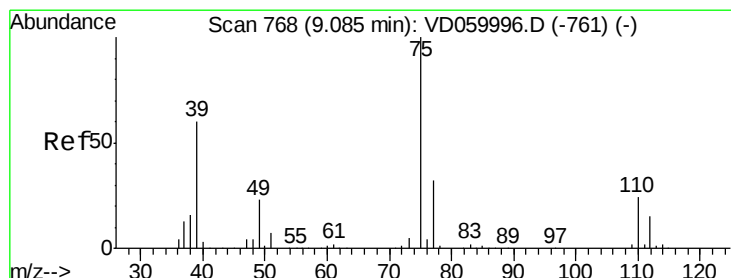
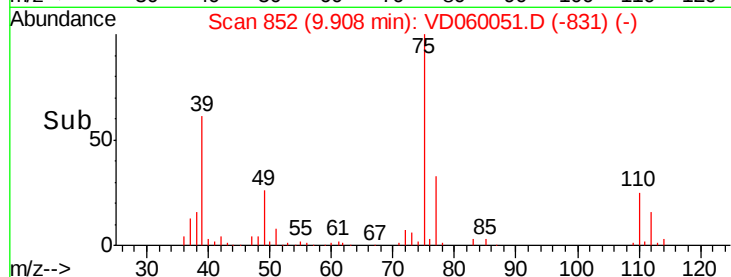
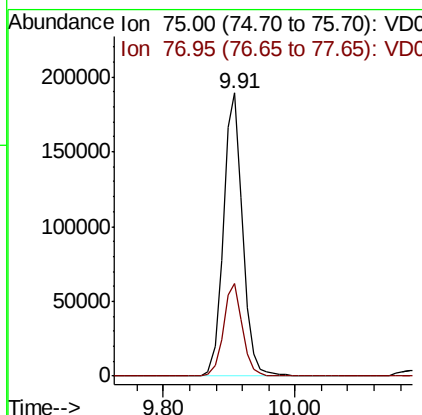
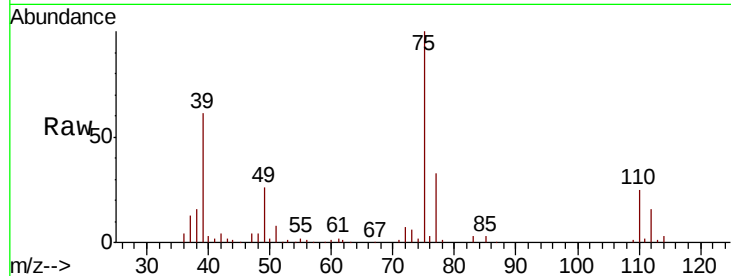




#53
 t-1,3-Dichloropropene
 Concen: 19.80 ug/l
 RT: 9.91 min Scan# 852
 Delta R.T. 0.01 min
 Lab File: VD060051.D
 Acq: 20 Sep 2018 12:35

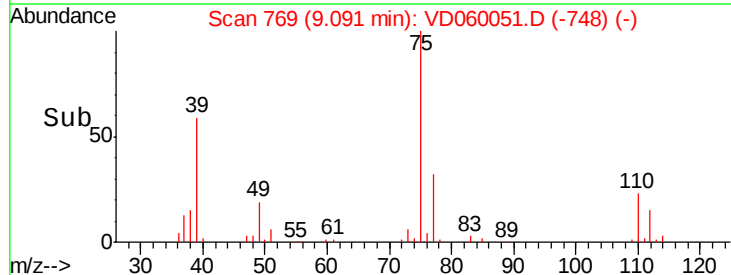
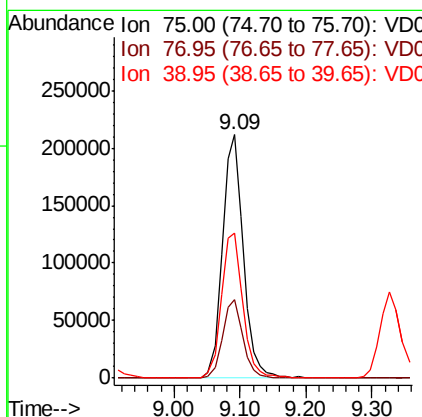
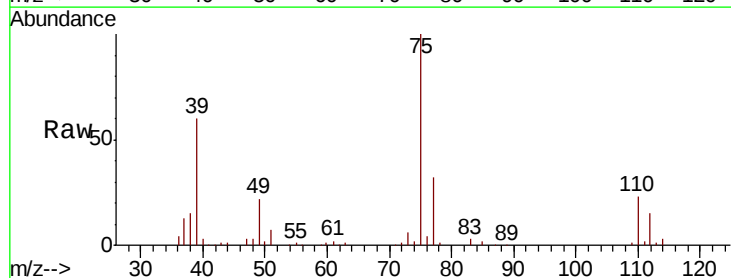
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0920SBS01

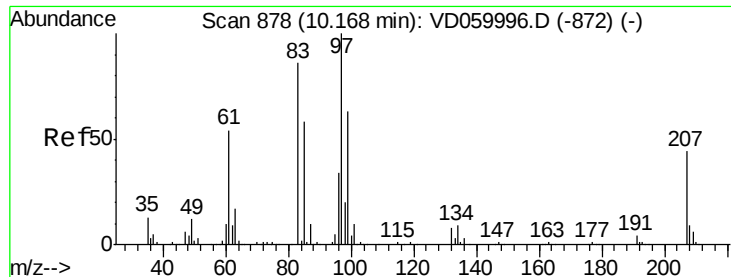
Tot Ion: 75 Resp: 383778
 Ion Ratio Lower Upper
 75 100
 77 32.7 25.6 38.4



#54
 cis-1,3-Dichloropropene
 Concen: 20.29 ug/l
 RT: 9.09 min Scan# 769
 Delta R.T. 0.01 min
 Lab File: VD060051.D
 Acq: 20 Sep 2018 12:35

Tgt Ion: 75 Resp: 470050
 Ion Ratio Lower Upper
 75 100
 77 32.2 25.5 38.3
 39 59.7 48.0 72.0





#55

1,1,2-Trichloroethane

Concen: 19.59 ug/l

RT: 10.17 min Scan# 879

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

ClientSampleId :

VD0920SBS01

Tot Ion: 97 Resp: 240919

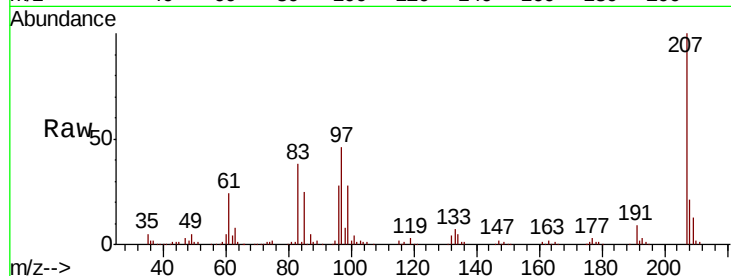
Ion Ratio Lower Upper

97 100

83 82.8 69.1 103.7

85 54.6 46.2 69.4

99 60.4 50.6 75.8

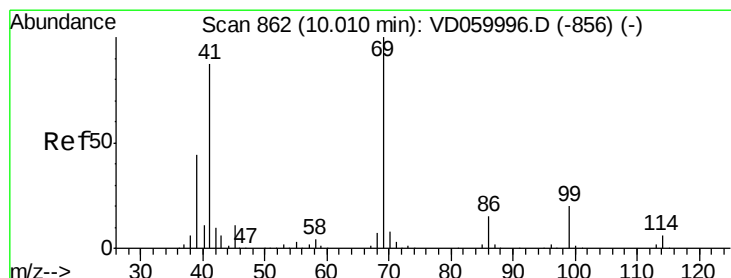
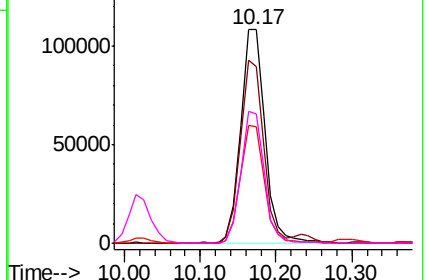
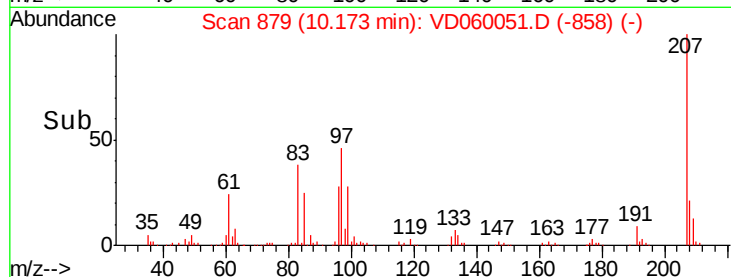


Abundance Ion 96.85 (96.55 to 97.55): VDC

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: 19.05 ug/l

RT: 10.02 min Scan# 863

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

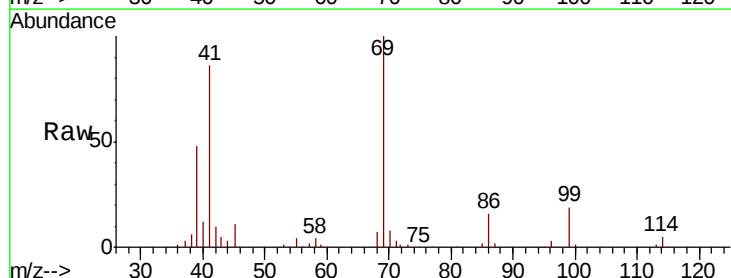
Tgt Ion: 69 Resp: 259856

Ion Ratio Lower Upper

69 100

41 86.1 70.1 105.1

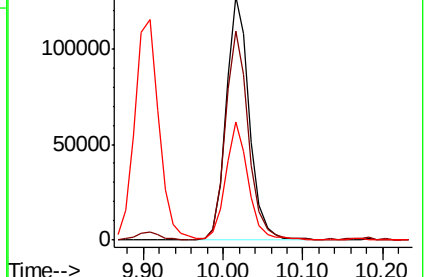
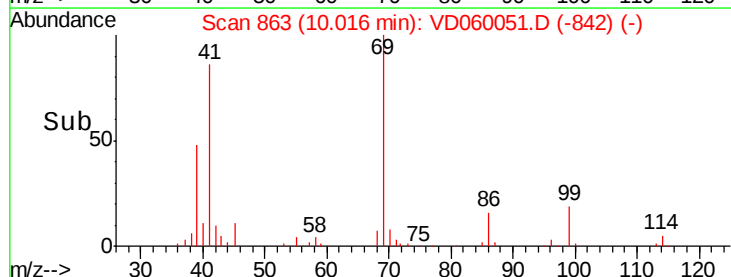
39 48.3 36.5 54.7

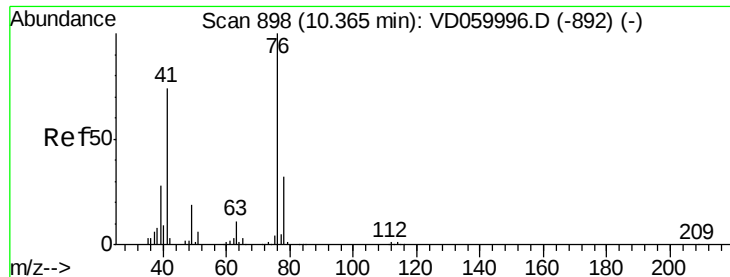


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC





#57

1,3-Dichloropropane

Concen: 20.61 ug/l

RT: 10.37 min Scan# 899

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

ClientSampleId :

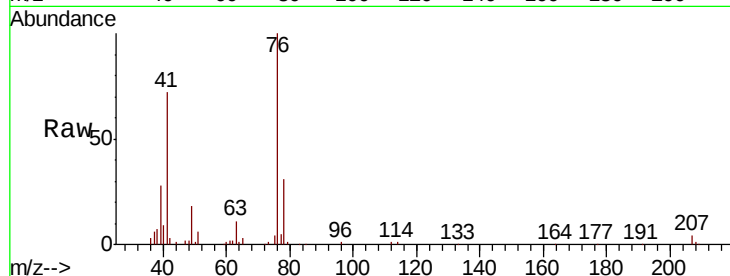
VD0920SBS01

Tot Ion: 76 Resp: 374090

Ion Ratio Lower Upper

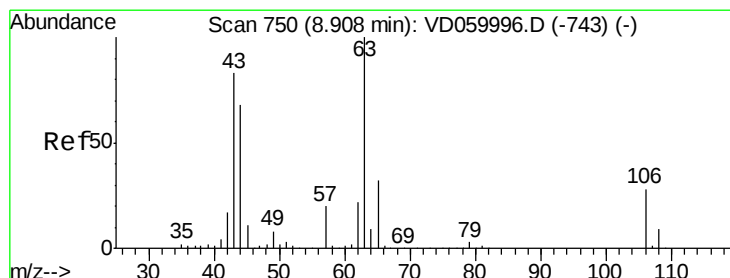
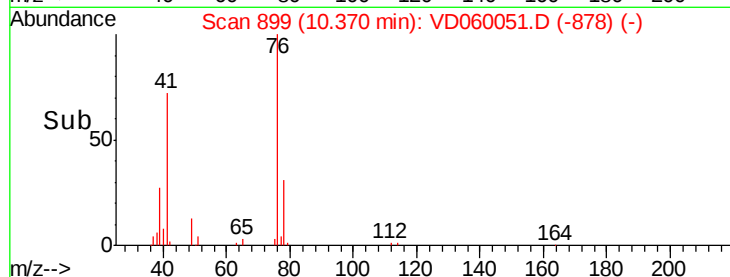
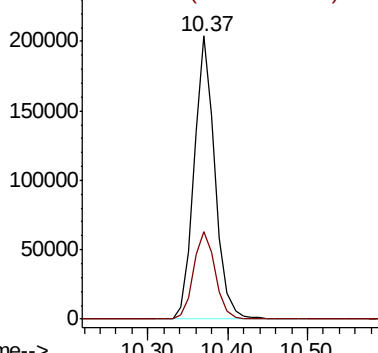
76 100

78 31.1 25.3 37.9



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 104.47 ug/l

RT: 8.90 min Scan# 750

Delta R.T. -0.00 min

Lab File: VD060051.D

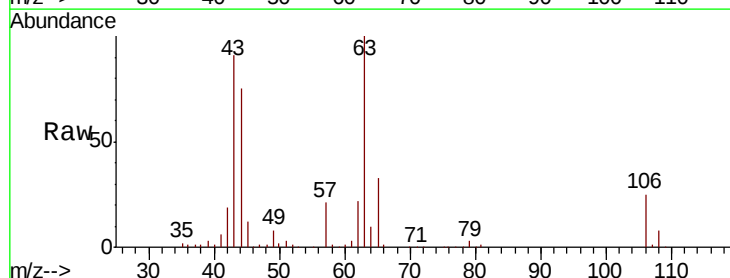
Acq: 20 Sep 2018 12:35

Tgt Ion: 63 Resp: 688098

Ion Ratio Lower Upper

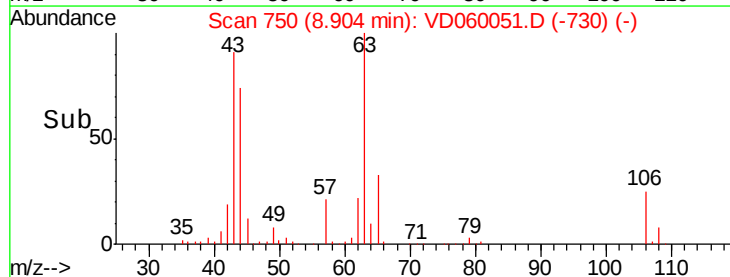
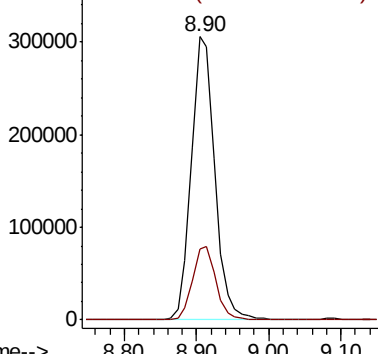
63 100

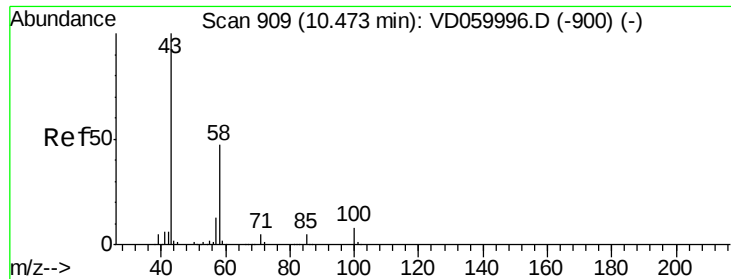
106 25.3 22.0 33.0



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

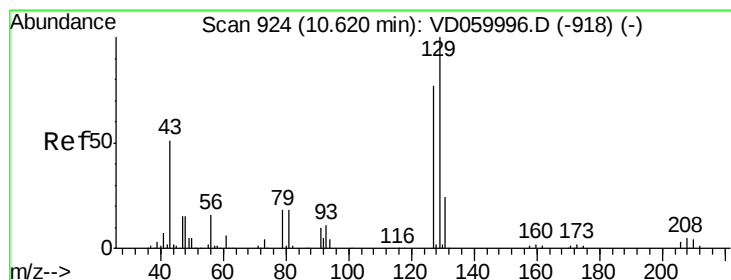
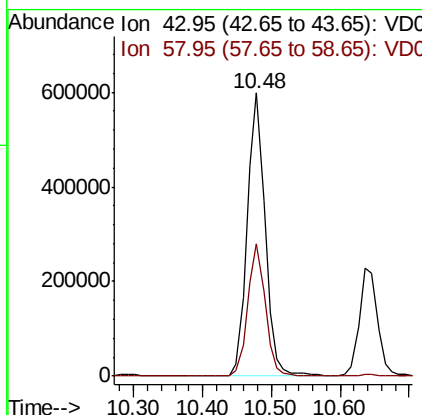
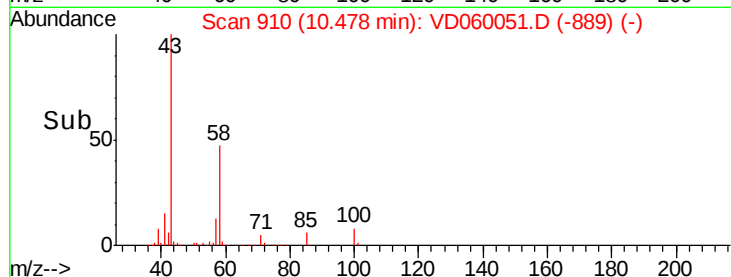
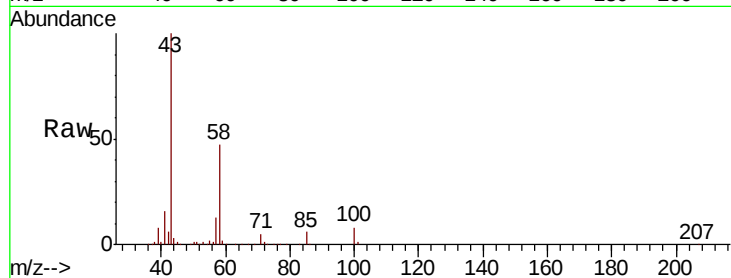




#59
2-Hexanone
Concen: 101.72 ug/l
RT: 10.48 min Scan# 910
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

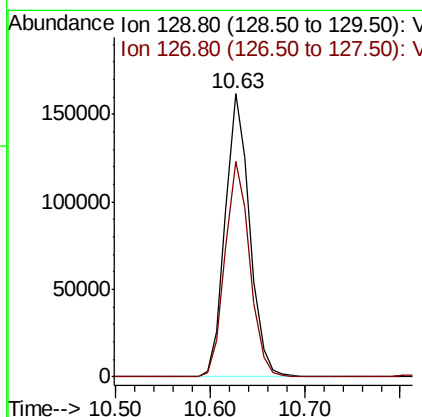
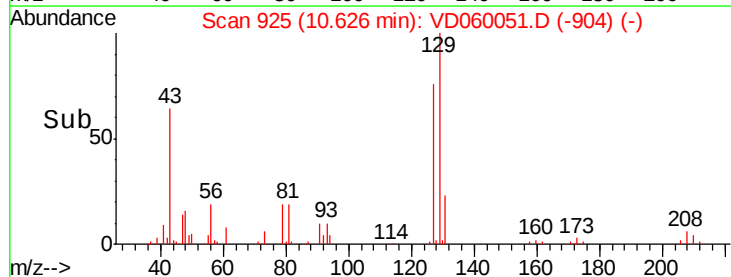
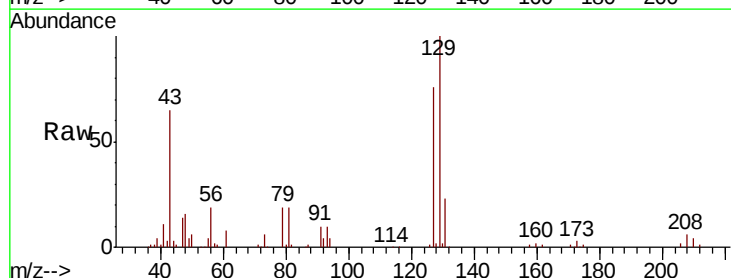
Instrument :
MSVOA_D
ClientSampleId :
VD0920SBS01

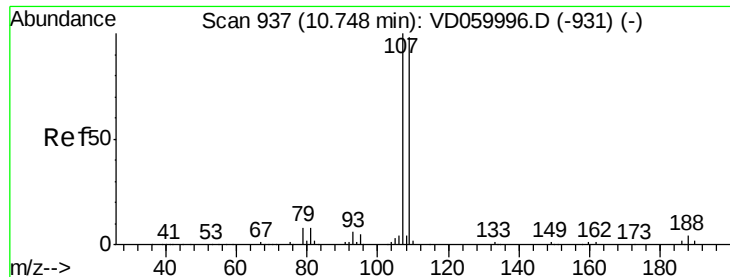
Tot Ion: 43 Resp: 1078449
Ion Ratio Lower Upper
43 100
58 46.9 23.4 70.0



#60
Dibromochloromethane
Concen: 19.36 ug/l
RT: 10.63 min Scan# 925
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Tgt Ion: 129 Resp: 289840
Ion Ratio Lower Upper
129 100
127 76.1 38.6 116.0





#61

1,2-Dibromoethane

Concen: 19.23 ug/l

RT: 10.74 min Scan# 937

Delta R.T. -0.00 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

ClientSampleId :

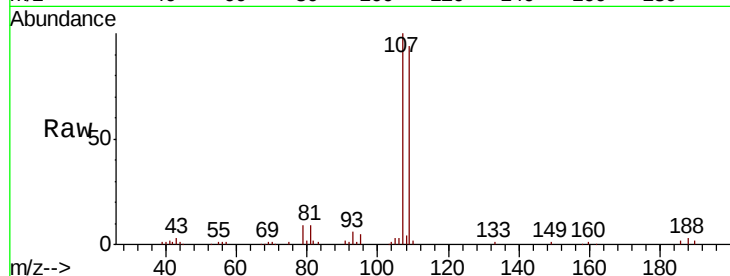
VD0920SBS01

Tot Ion:107 Resp: 244154

Ion Ratio Lower Upper

107 100

109 94.1 78.2 117.2



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V

10.74

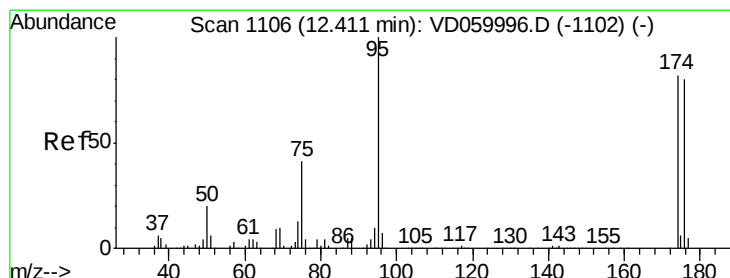
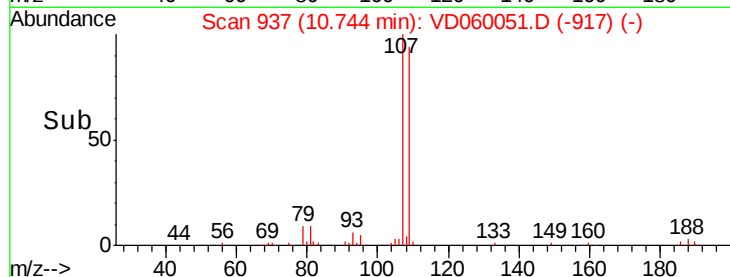
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 19.23 ug/l

RT: 12.42 min Scan# 1107

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

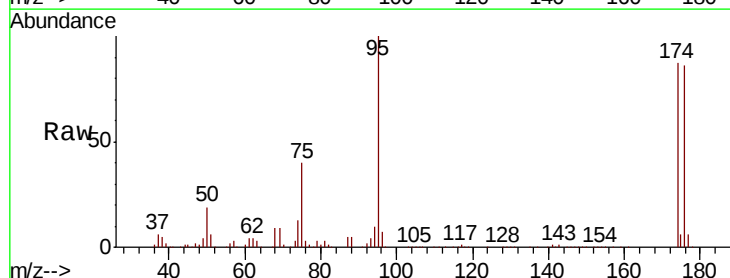
Tgt Ion: 95 Resp: 973778

Ion Ratio Lower Upper

95 100

174 87.2 0.0 165.0

176 85.9 0.0 160.2



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

1000000

800000

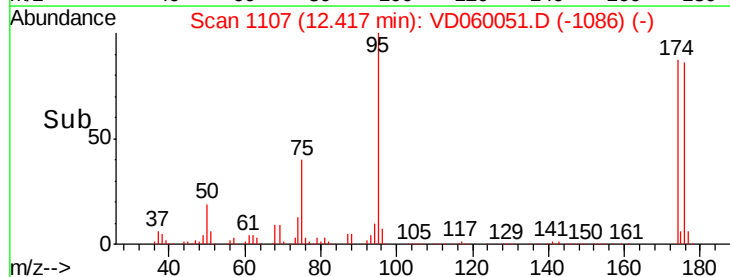
600000

400000

200000

0

Time-->

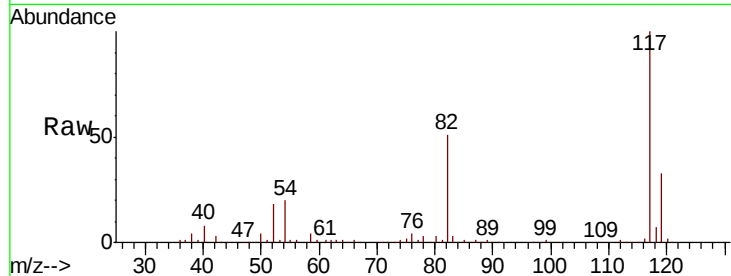




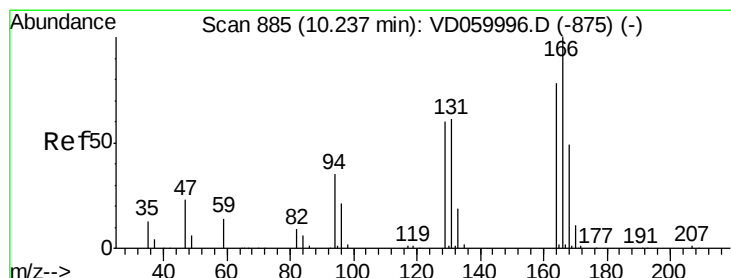
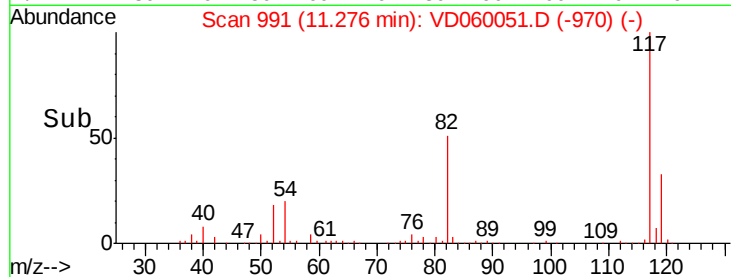
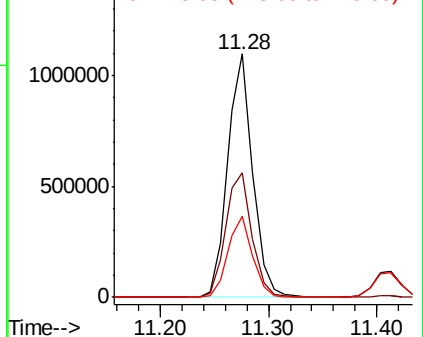
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.28 min Scan# 991
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Instrument :
MSVOA_D
ClientSampleId :
VD0920SBS01

Tot Ion:117 Resp: 1759407
Ion Ratio Lower Upper
117 100
82 51.4 41.7 62.5
119 33.1 26.0 39.0

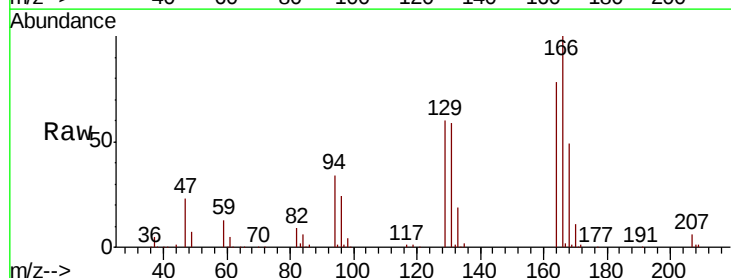


Abundance Ion 116.95 (116.65 to 117.65): V
1500000 Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

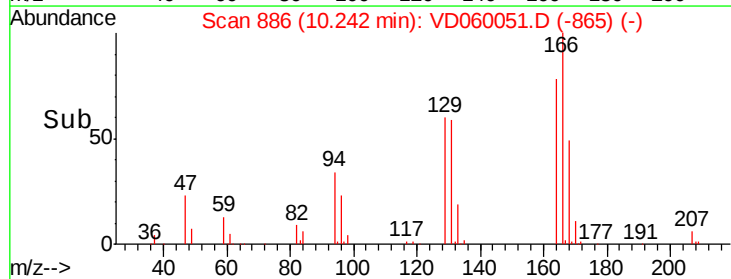
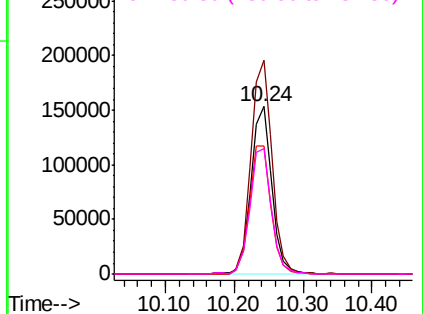


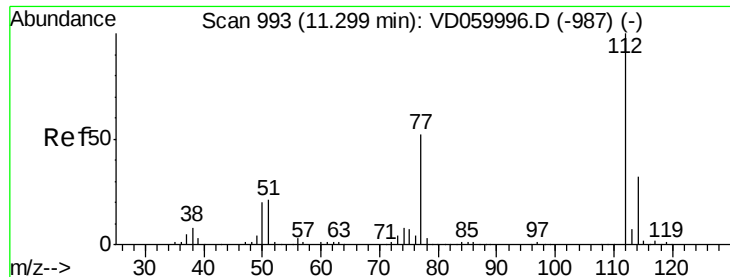
#64
Tetrachloroethene
Concen: 20.75 ug/l
RT: 10.24 min Scan# 886
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Tgt Ion:164 Resp: 322042
Ion Ratio Lower Upper
164 100
166 127.8 103.0 154.6
129 76.7 61.9 92.9
131 75.4 62.6 93.8



Abundance Ion 163.85 (163.55 to 164.55): V
300000 Ion 165.85 (165.55 to 166.55): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

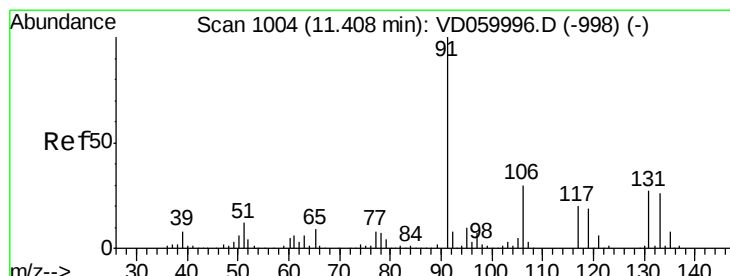
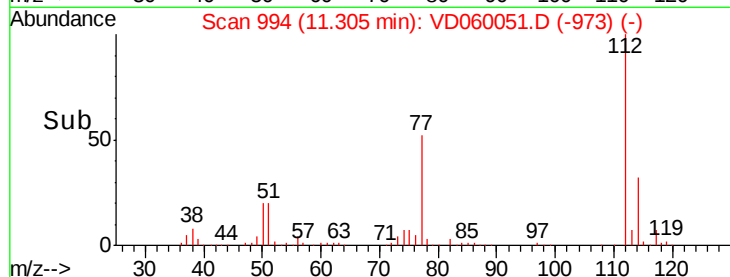
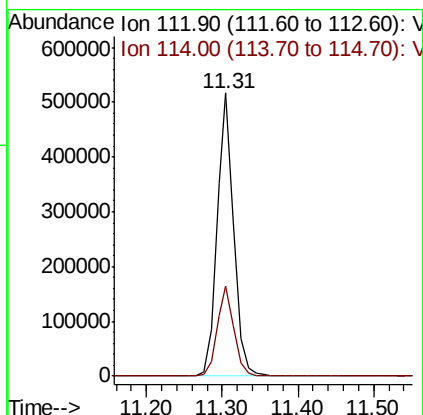
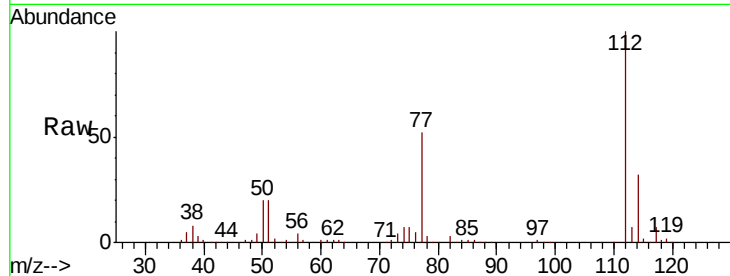




#65
Chlorobenzene
Concen: 20.96 ug/l
RT: 11.31 min Scan# 994
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

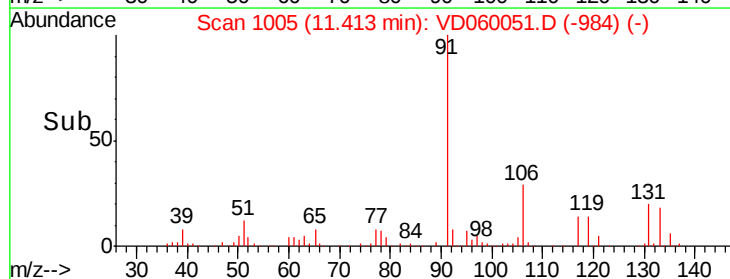
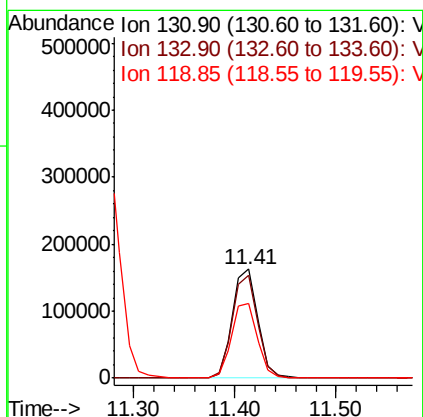
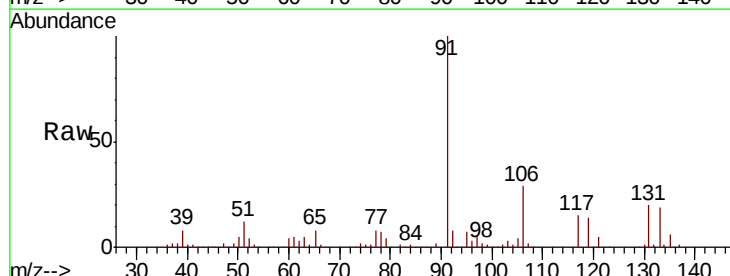
Instrument :
MSVOA_D
ClientSampleId :
VD0920SBS01

Tot Ion:112 Resp: 792771
Ion Ratio Lower Upper
112 100
114 32.0 25.3 37.9



#66
1,1,1,2-Tetrachloroethane
Concen: 22.20 ug/l
RT: 11.41 min Scan# 1005
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Tgt Ion:131 Resp: 283294
Ion Ratio Lower Upper
131 100
133 94.6 47.4 142.3
119 68.0 35.6 106.9

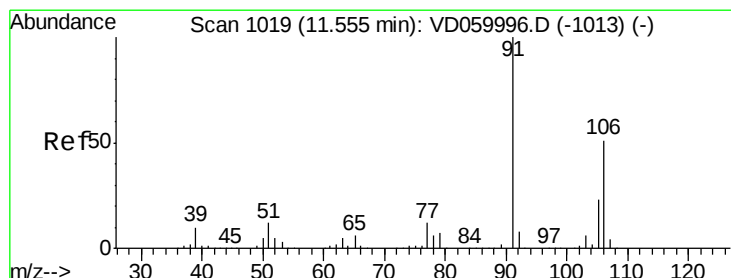
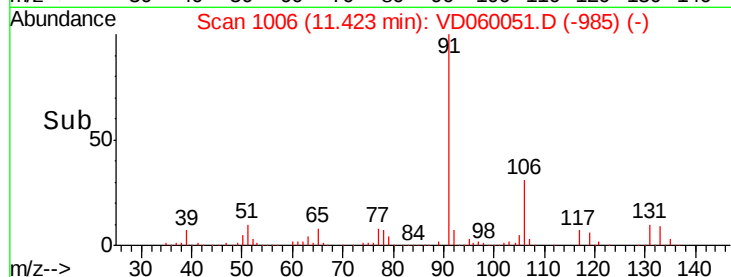
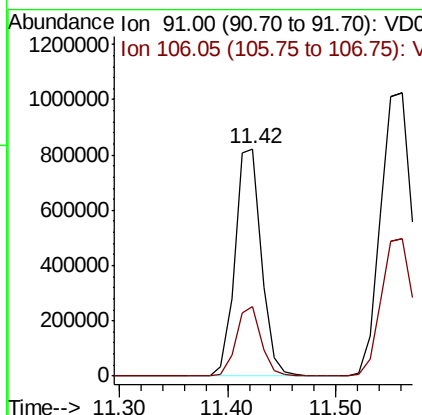
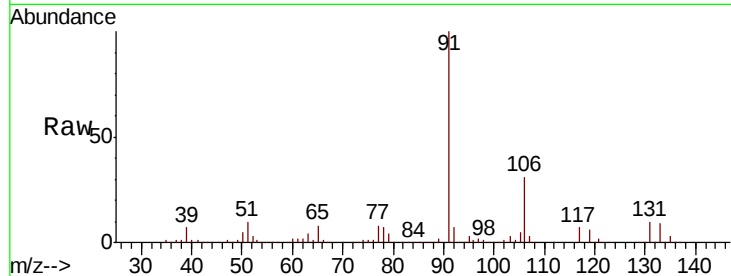




#67
Ethyl Benzene
Concen: 22.90 ug/l
RT: 11.42 min Scan# 1006
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

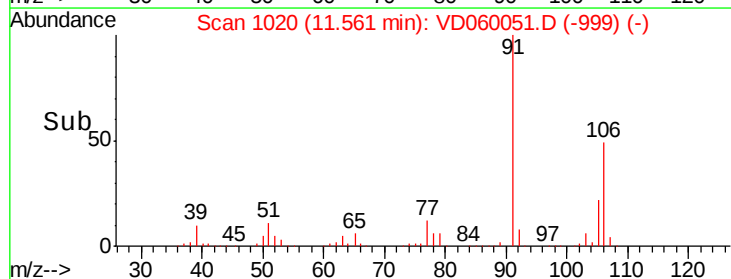
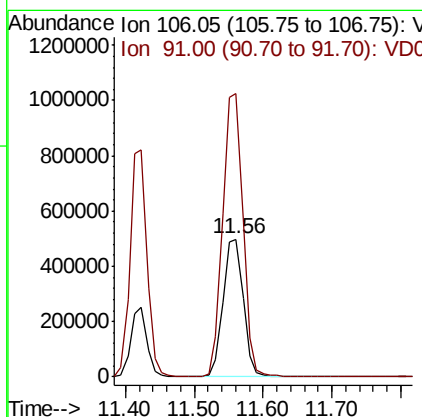
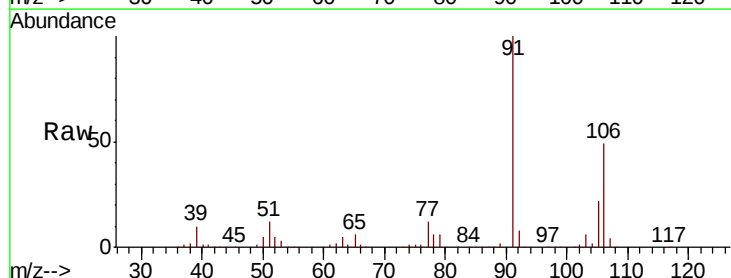
Instrument :
MSVOA_D
ClientSampleId :
VD0920SBS01

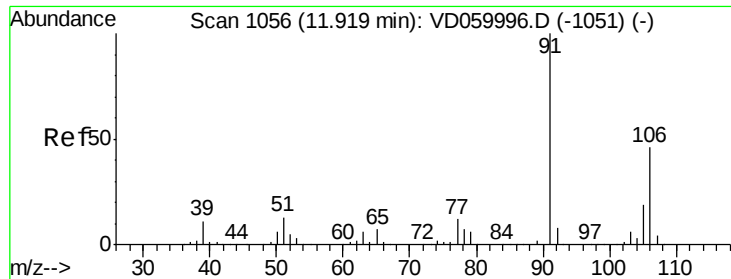
Tot Ion: 91 Resp: 1394134
Ion Ratio Lower Upper
91 100
106 30.9 24.8 37.2



#68
m/p-Xylenes
Concen: 44.83 ug/l
RT: 11.56 min Scan# 1020
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Tgt Ion: 106 Resp: 1007889
Ion Ratio Lower Upper
106 100
91 205.7 157.0 235.6

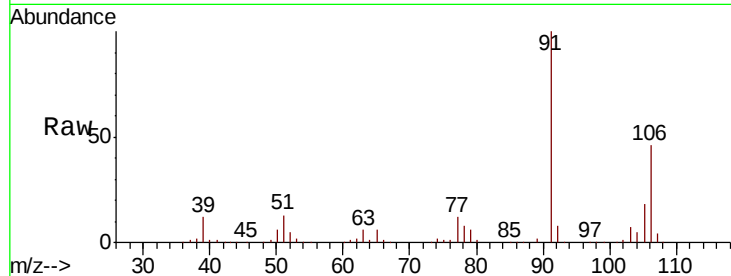




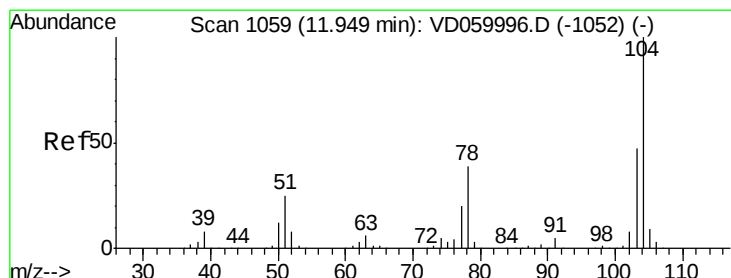
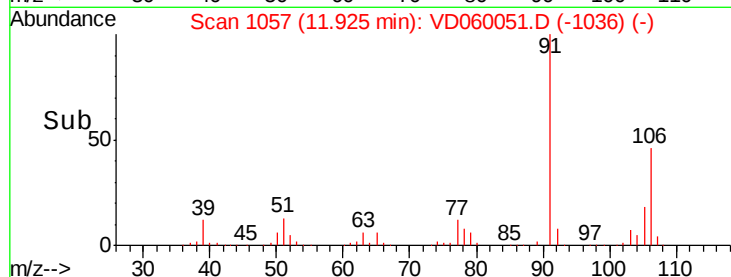
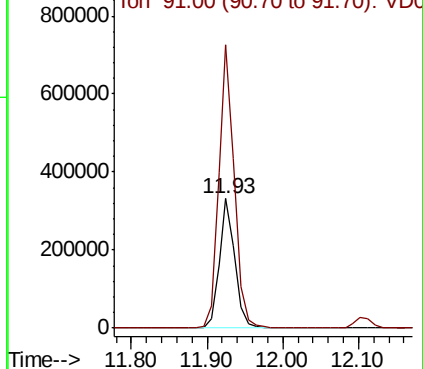
#69
o-Xylene
Concen: 21.32 ug/l
RT: 11.93 min Scan# 1057
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Instrument :
MSVOA_D
ClientSampleId :
VD0920SBS01

Tot Ion:106 Resp: 474990
Ion Ratio Lower Upper
106 100
91 218.9 107.7 323.1

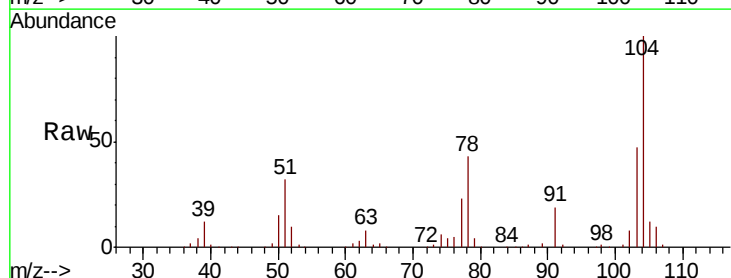


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

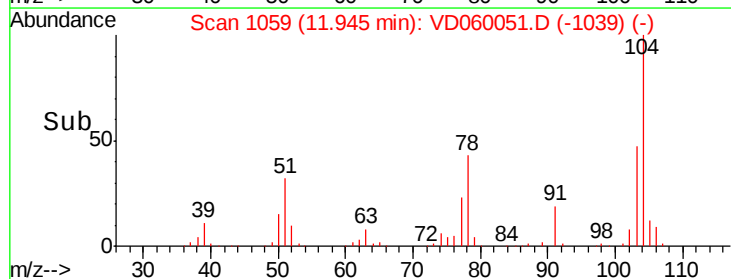
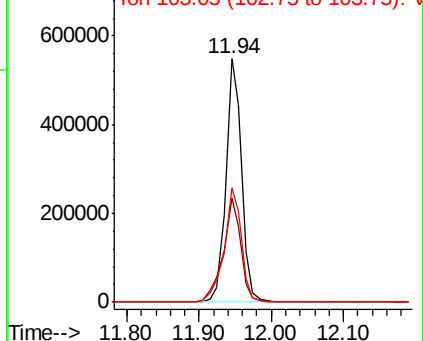


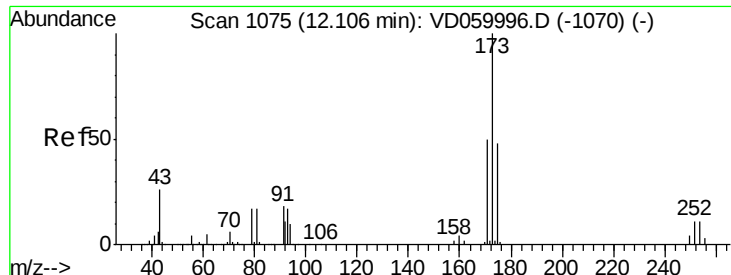
#70
Styrene
Concen: 21.78 ug/l
RT: 11.94 min Scan# 1059
Delta R.T. -0.00 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Tgt Ion:104 Resp: 815922
Ion Ratio Lower Upper
104 100
78 43.0 31.0 46.4
103 47.0 37.6 56.4



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: 18.81 ug/l

RT: 12.11 min Scan# 1076

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

ClientSampleId :

VD0920SBS01

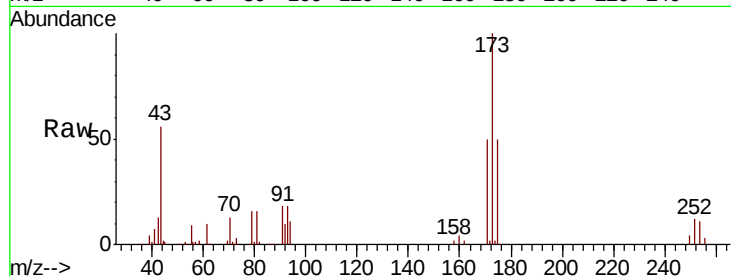
Tot Ion:173 Resp: 206192

Ion Ratio Lower Upper

173 100

175 50.2 24.0 72.0

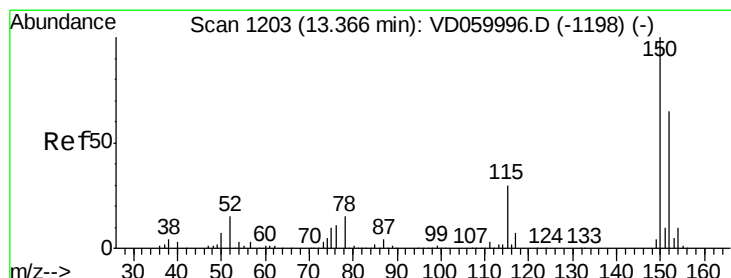
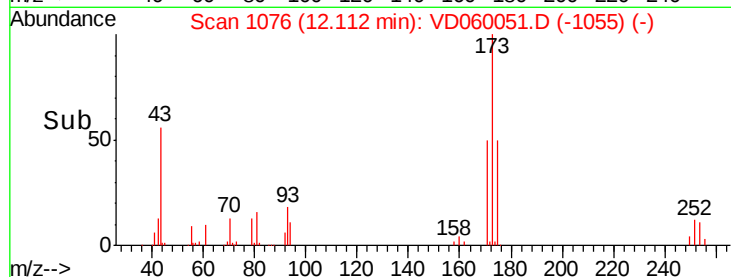
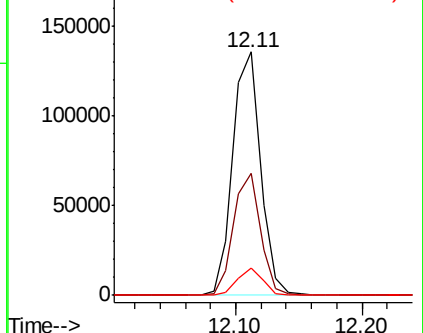
254 11.3 8.6 13.0



Abundance Ion 172.80 (172.50 to 173.50): V

Ion 174.80 (174.50 to 175.50): V

Ion 253.70 (253.40 to 254.40): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.36 min Scan# 1203

Delta R.T. -0.00 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

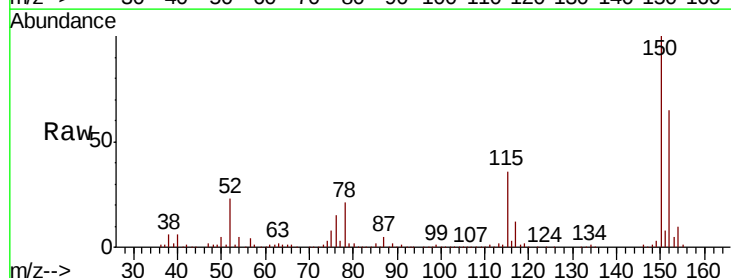
Tgt Ion:152 Resp: 957137

Ion Ratio Lower Upper

152 100

115 55.2 24.6 73.8

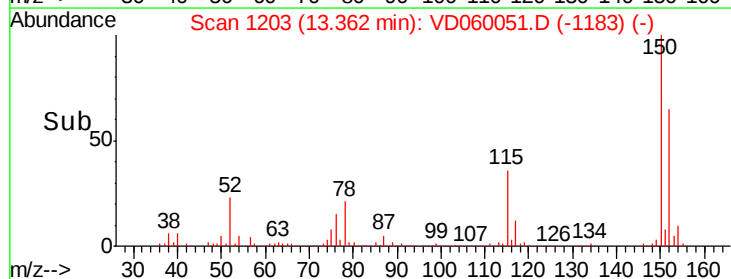
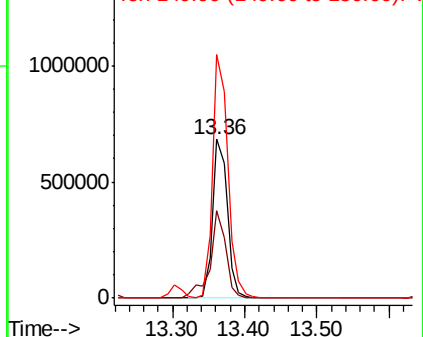
150 153.3 0.0 313.4

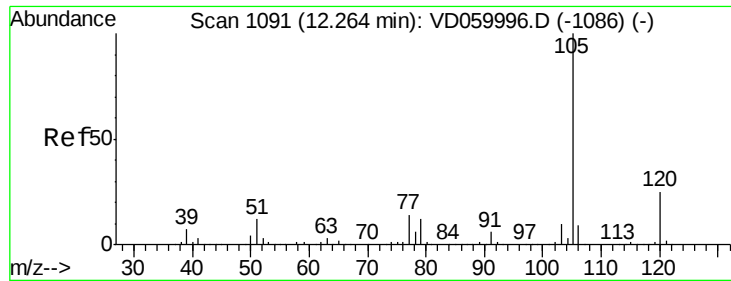


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 21.17 ug/l

RT: 12.27 min Scan# 1092

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

ClientSampleId :

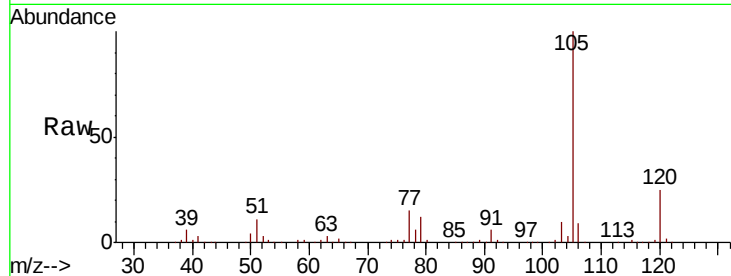
VD0920SBS01

Tot Ion:105 Resp: 1329214

Ion Ratio Lower Upper

105 100

120 24.9 12.3 36.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

12.27

1000000

800000

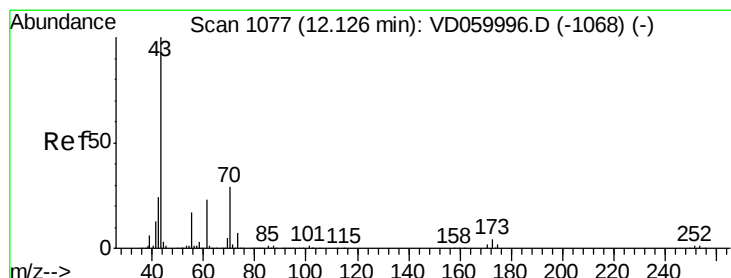
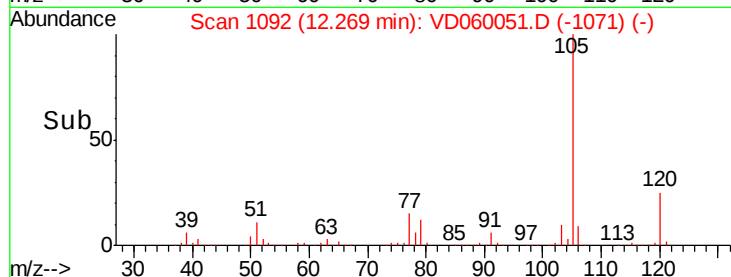
600000

400000

200000

0

Time--> 12.20 12.30 12.40



#74

N-ethyl acetate

Concen: 18.90 ug/l

RT: 12.12 min Scan# 1077

Delta R.T. -0.00 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Tgt Ion: 43 Resp: 470034

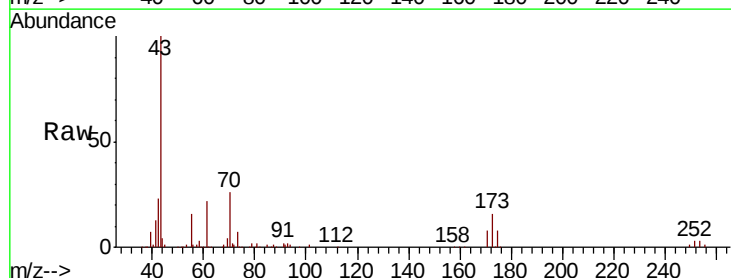
Ion Ratio Lower Upper

43 100

70 26.0 22.9 34.3

55 16.3 14.0 21.0

61 21.9 18.7 28.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC

500000

400000

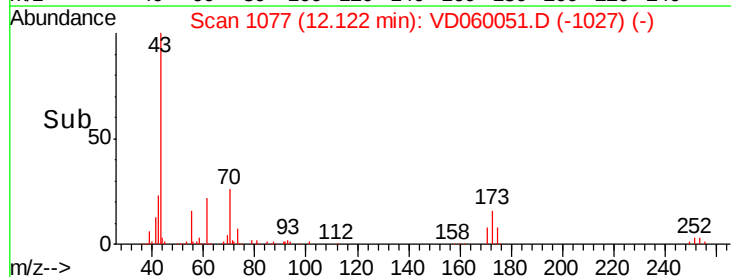
300000

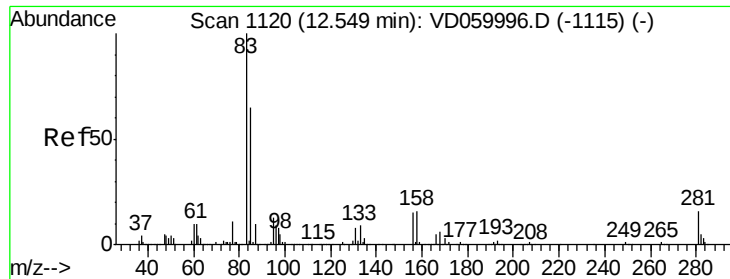
200000

100000

0

Time--> 12.10 12.20





#75

1,1,2,2-Tetrachloroethane

Concen: 19.45 ug/l

RT: 12.55 min Scan# 1121

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

ClientSampleId :

VD0920SBS01

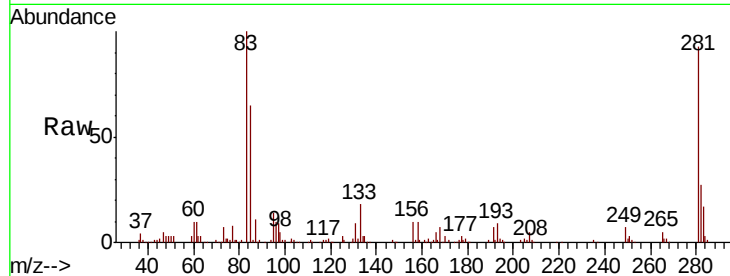
Tot Ion: 83 Resp: 277023

Ion Ratio Lower Upper

83 100

131 8.5 4.1 12.3

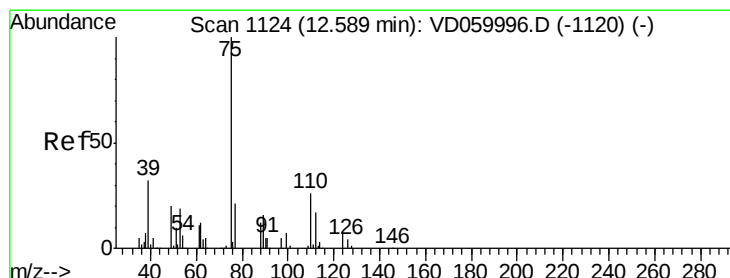
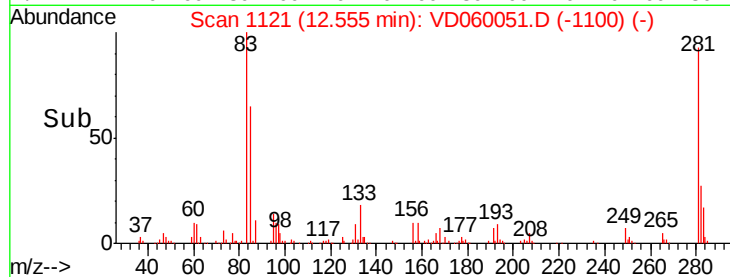
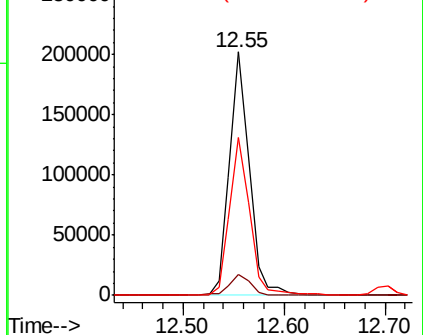
85 64.7 32.4 97.2



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 18.96 ug/l

RT: 12.59 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VD060051.D

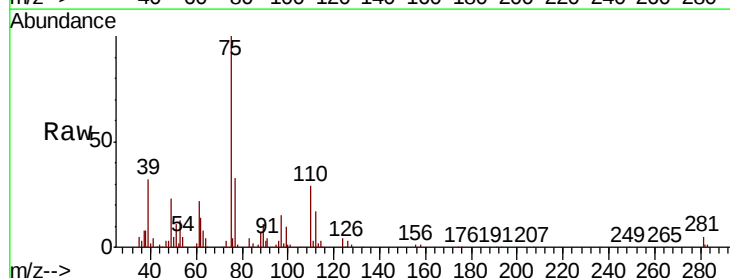
Acq: 20 Sep 2018 12:35

Tgt Ion: 75 Resp: 277095

Ion Ratio Lower Upper

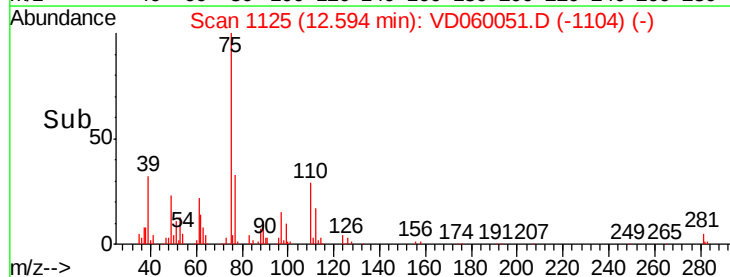
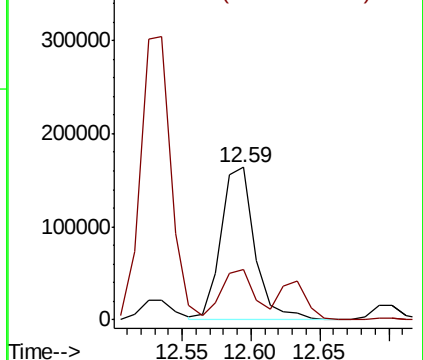
75 100

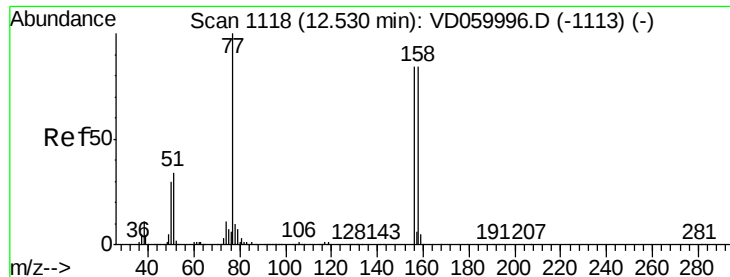
77 32.8 16.4 49.4



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 20.72 ug/l

RT: 12.54 min Scan# 1119

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

ClientSampleId :

VD0920SBS01

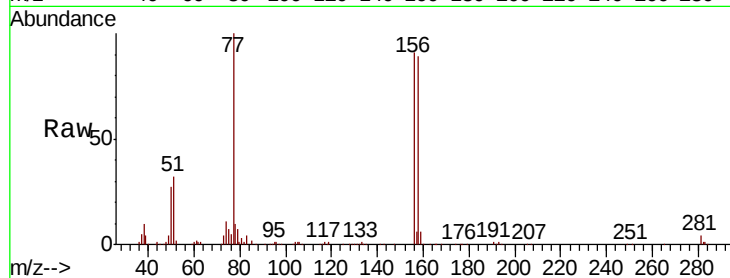
Tot Ion:156 Resp: 374624

Ion Ratio Lower Upper

156 100

77 110.1 59.5 178.4

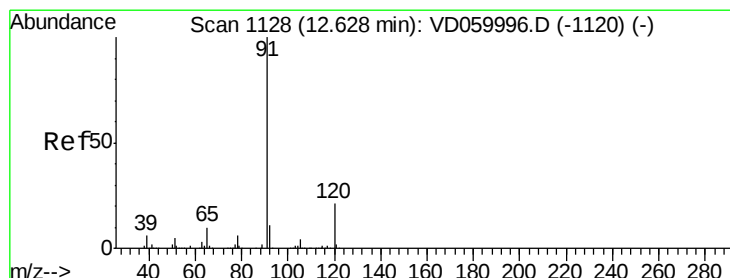
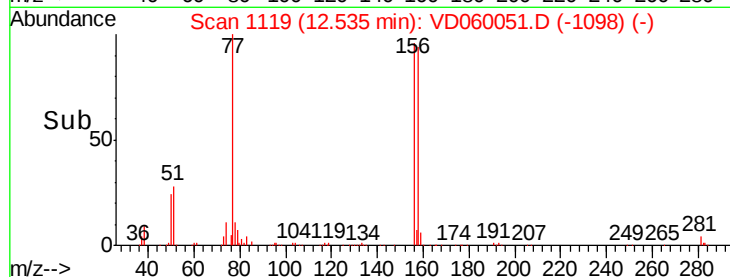
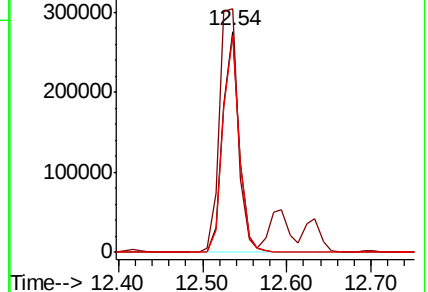
158 98.2 50.0 149.8



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: 21.33 ug/l

RT: 12.63 min Scan# 1129

Delta R.T. 0.01 min

Lab File: VD060051.D

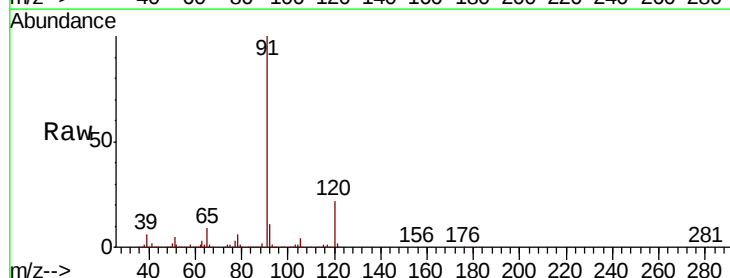
Acq: 20 Sep 2018 12:35

Tgt Ion: 91 Resp: 1684101

Ion Ratio Lower Upper

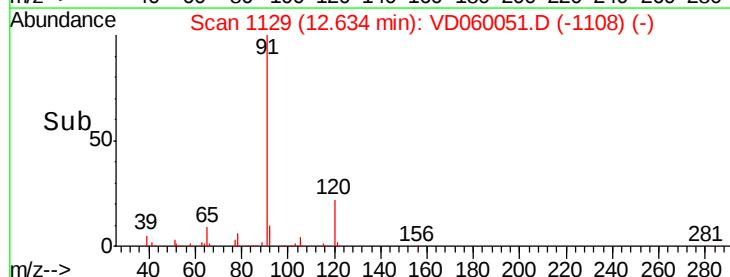
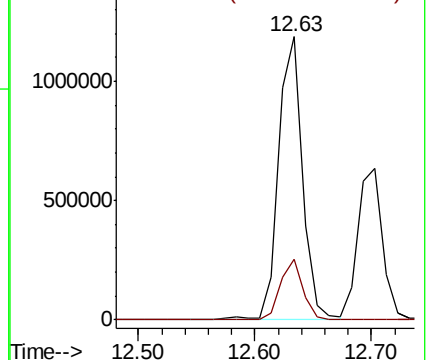
91 100

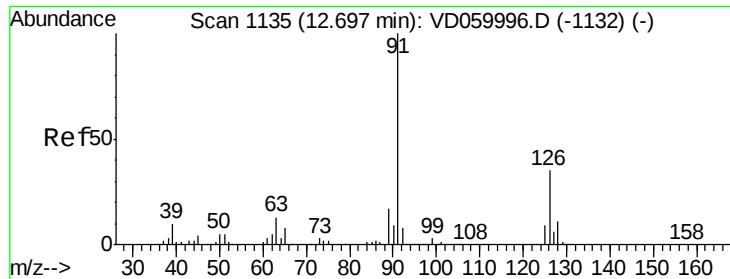
120 21.6 10.7 31.9



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V

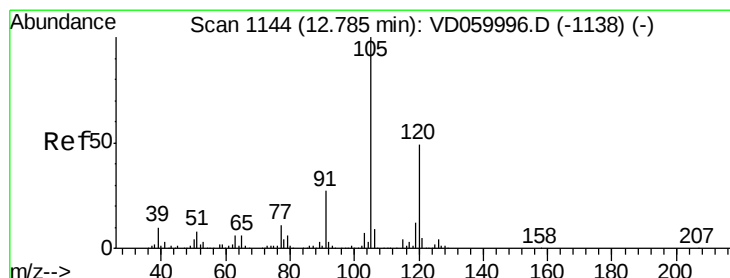
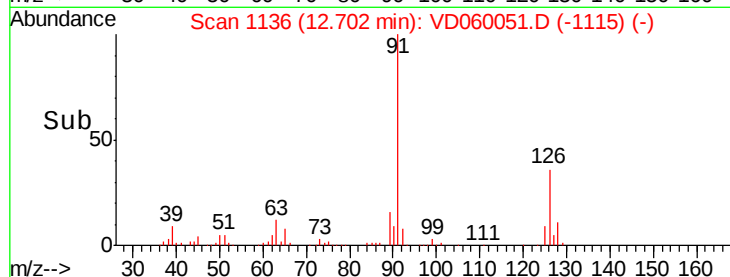
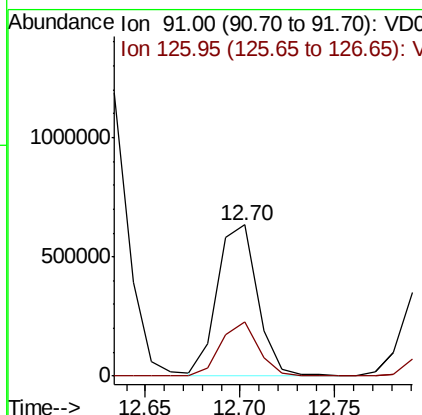
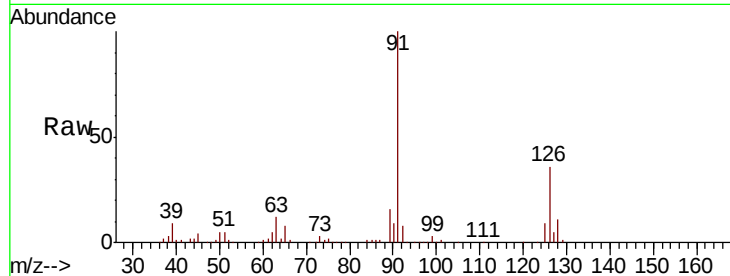




#79
 2-Chlorotoluene
 Concen: 20.85 ug/l
 RT: 12.70 min Scan# 1136
 Delta R.T. 0.01 min
 Lab File: VD060051.D
 Acq: 20 Sep 2018 12:35

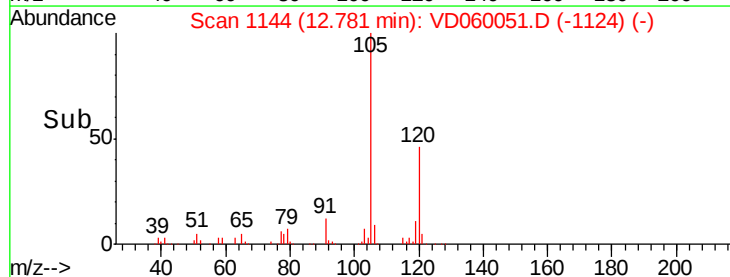
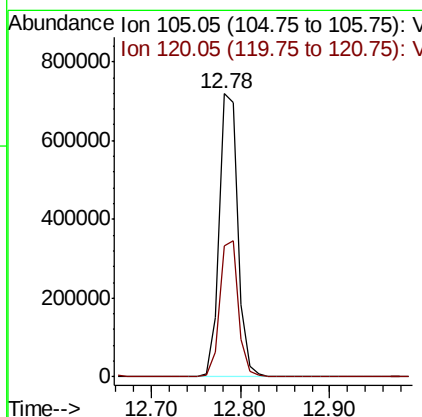
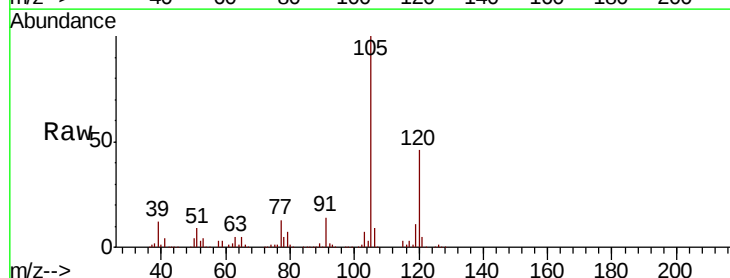
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0920SBS01

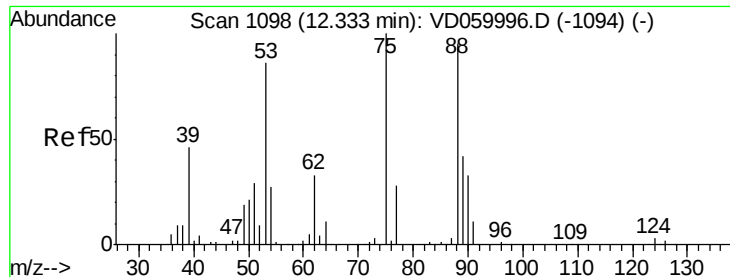
Tot Ion: 91 Resp: 929055
 Ion Ratio Lower Upper
 91 100
 126 35.6 17.3 52.0



#80
 1,3,5-Trimethylbenzene
 Concen: 21.96 ug/l
 RT: 12.78 min Scan# 1144
 Delta R.T. -0.00 min
 Lab File: VD060051.D
 Acq: 20 Sep 2018 12:35

Tgt Ion:105 Resp: 1056355
 Ion Ratio Lower Upper
 105 100
 120 46.3 24.4 73.2





#81

trans-1,4-Dichloro-2-butene

Concen: 17.83 ug/l

RT: 12.34 min Scan# 1099

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

ClientSampleId :

VD0920SBS01

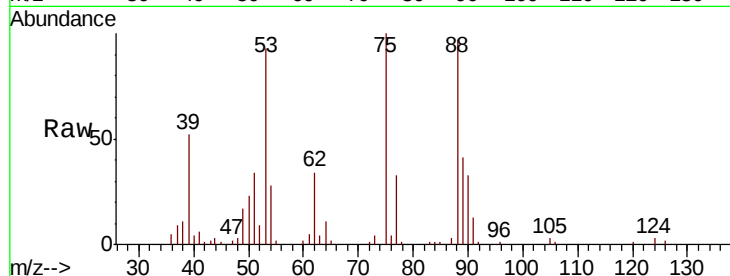
Tot Ion: 75 Resp: 78678

Ion Ratio Lower Upper

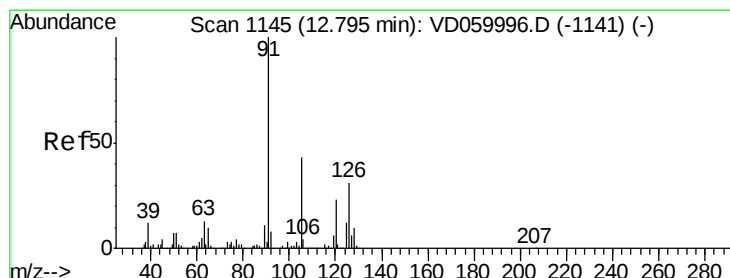
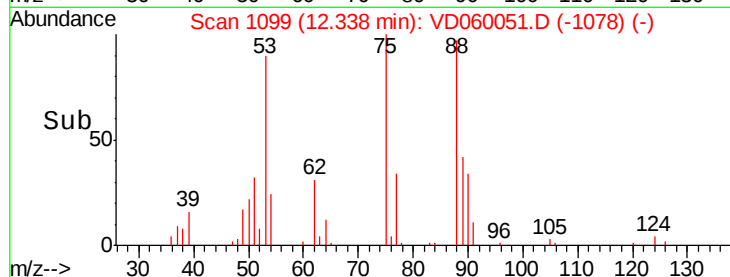
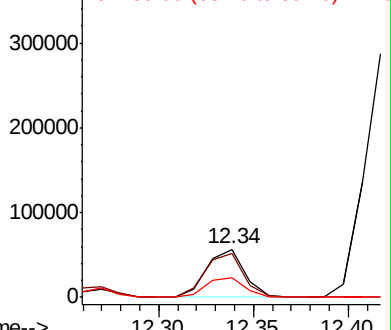
75 100

53 92.6 68.4 102.6

89 41.2 33.8 50.6



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



#82

4-Chlorotoluene

Concen: 21.36 ug/l

RT: 12.80 min Scan# 1146

Delta R.T. 0.01 min

Lab File: VD060051.D

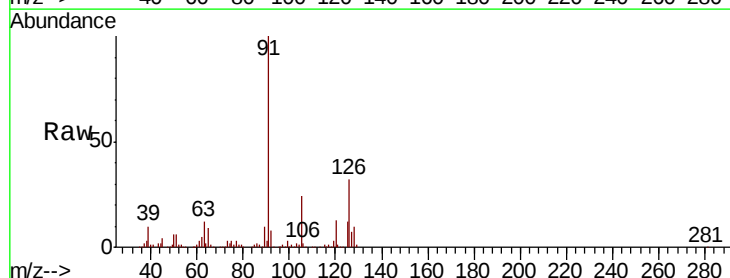
Acq: 20 Sep 2018 12:35

Tgt Ion: 91 Resp: 1046485

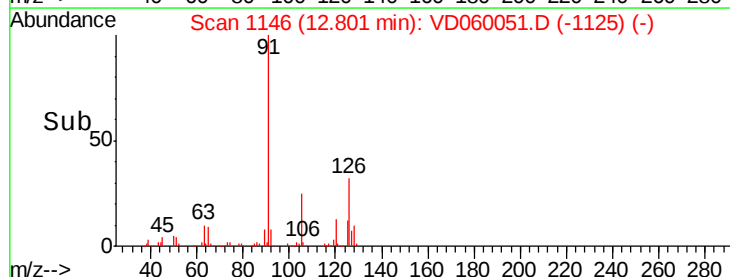
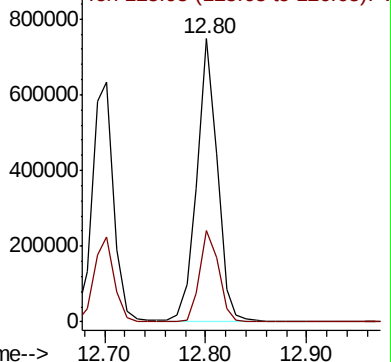
Ion Ratio Lower Upper

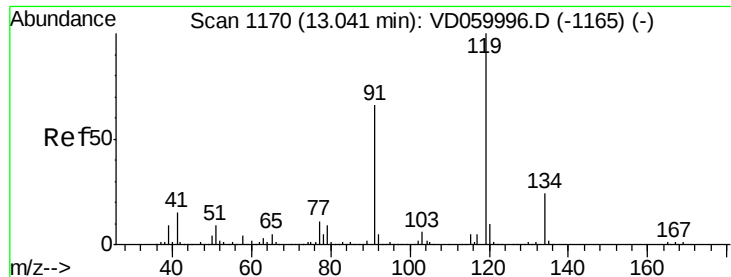
91 100

126 32.2 15.4 46.1



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

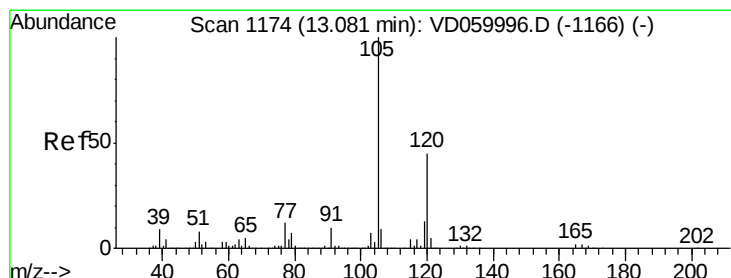
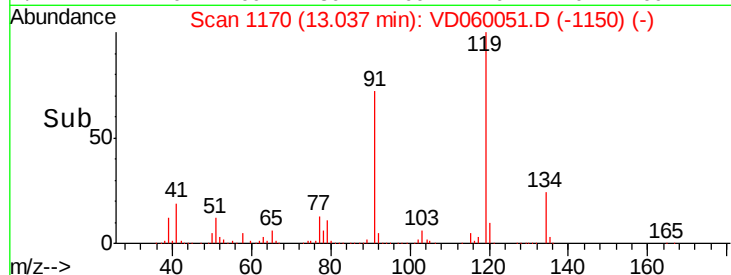
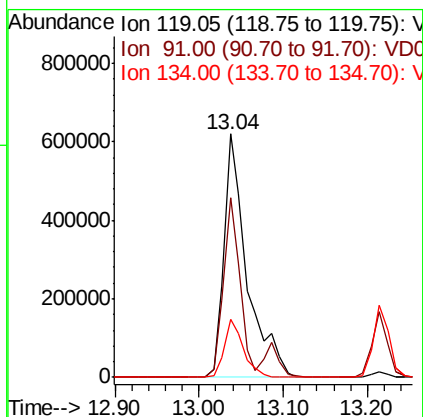
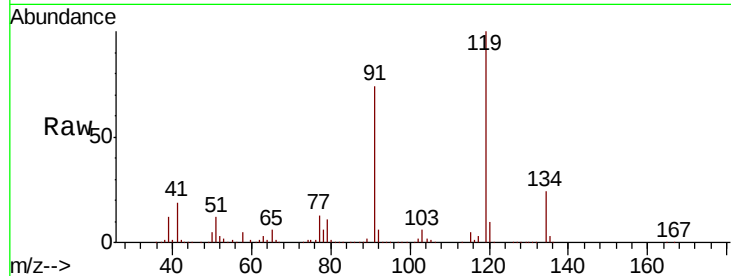




#83
 tert-Butylbenzene
 Concen: 21.14 ug/l
 RT: 13.04 min Scan# 1170
 Delta R.T. -0.00 min
 Lab File: VD060051.D
 Acq: 20 Sep 2018 12:35

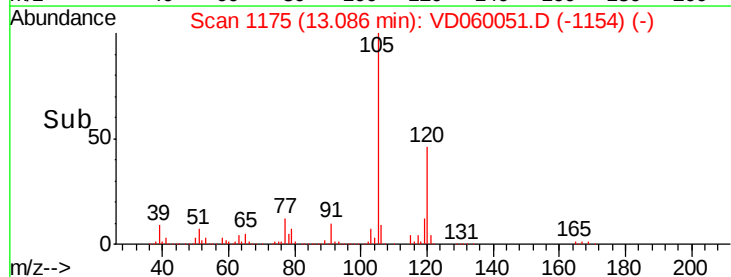
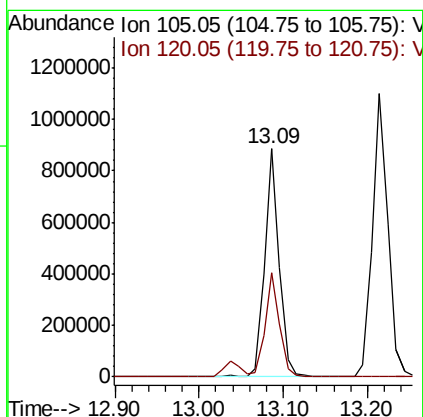
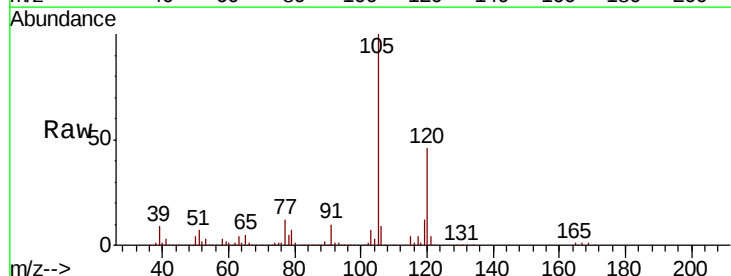
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0920SBS01

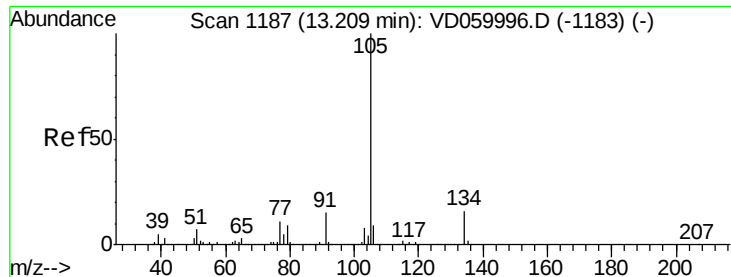
Tot Ion:119 Resp: 1178508
 Ion Ratio Lower Upper
 119 100
 91 73.6 32.9 98.6
 134 24.0 12.0 36.0



#84
 1,2,4-Trimethylbenzene
 Concen: 21.22 ug/l
 RT: 13.09 min Scan# 1175
 Delta R.T. 0.01 min
 Lab File: VD060051.D
 Acq: 20 Sep 2018 12:35

Tgt Ion:105 Resp: 1089542
 Ion Ratio Lower Upper
 105 100
 120 45.5 22.4 67.0

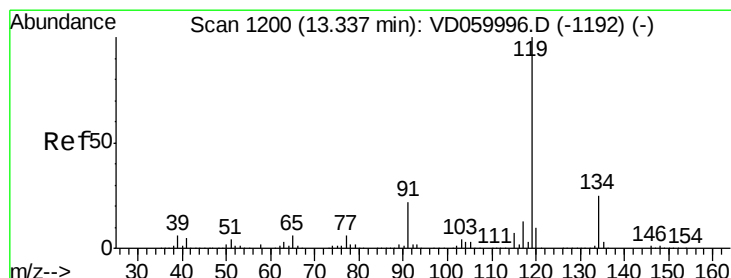
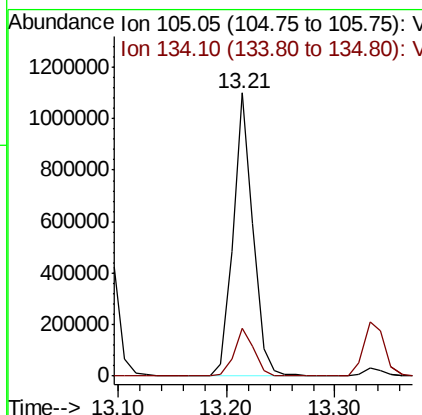
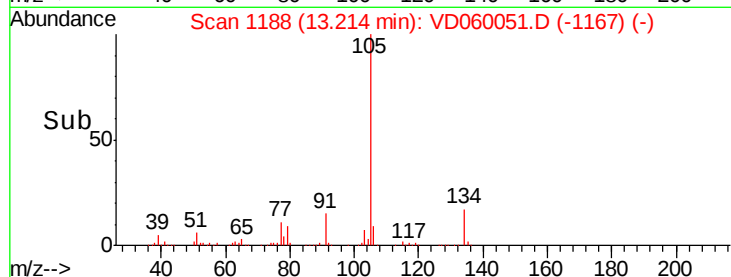
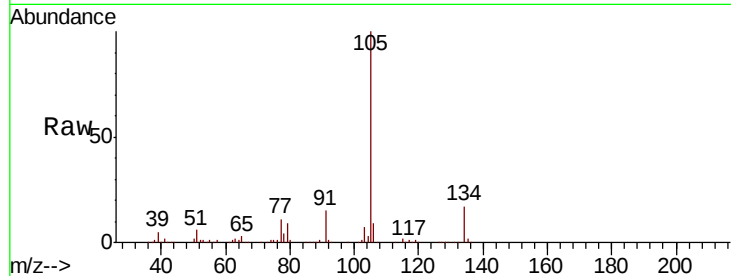




#85
 sec-Butylbenzene
 Concen: 21.05 ug/l
 RT: 13.21 min Scan# 1188
 Delta R.T. 0.01 min
 Lab File: VD060051.D
 Acq: 20 Sep 2018 12:35

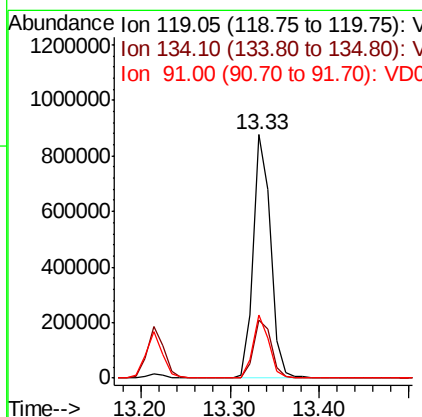
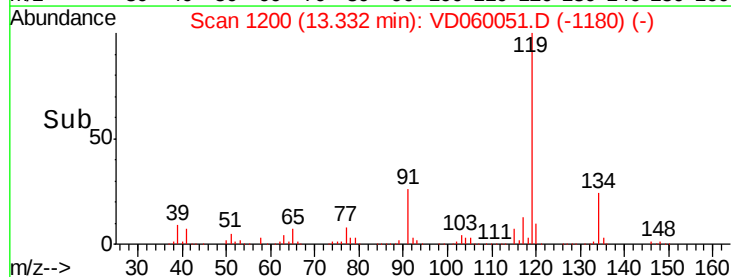
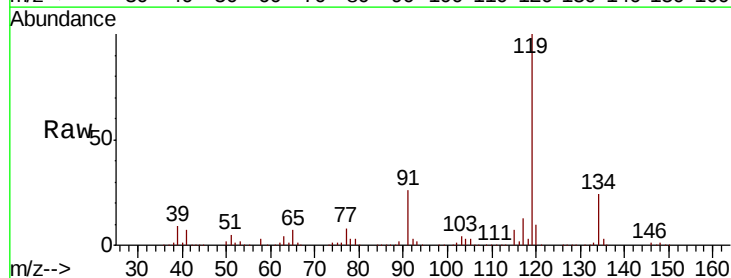
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0920SBS01

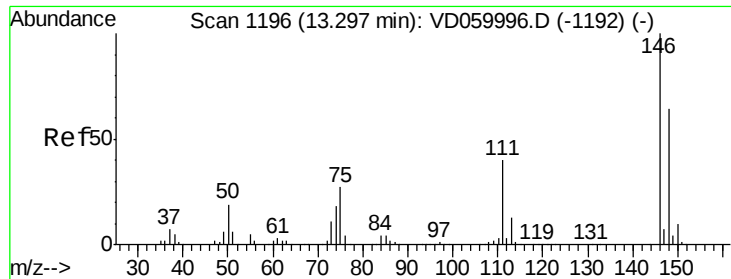
Tot Ion:105 Resp: 1393110
 Ion Ratio Lower Upper
 105 100
 134 16.8 8.2 24.6



#86
 p-Isopropyltoluene
 Concen: 21.65 ug/l
 RT: 13.33 min Scan# 1200
 Delta R.T. -0.00 min
 Lab File: VD060051.D
 Acq: 20 Sep 2018 12:35

Tgt Ion:119 Resp: 1158842
 Ion Ratio Lower Upper
 119 100
 134 23.8 12.8 38.3
 91 25.8 11.1 33.3

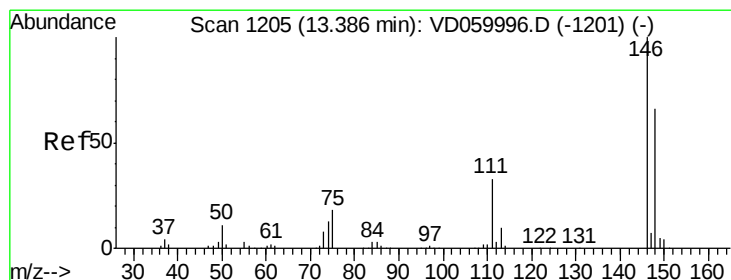
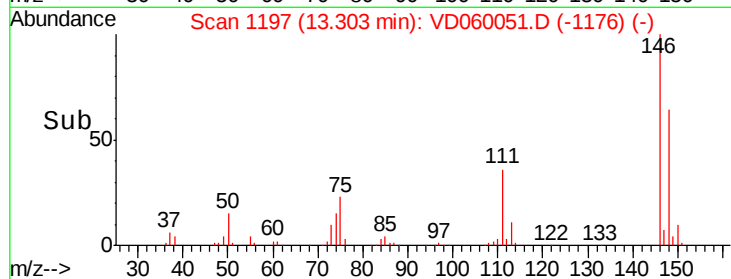
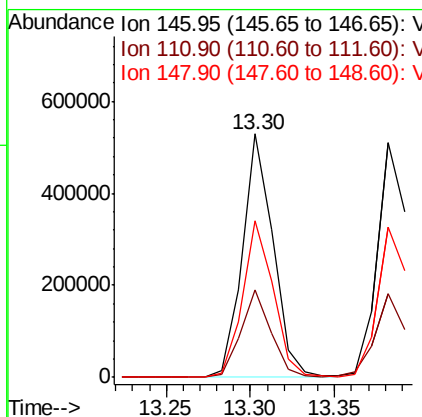
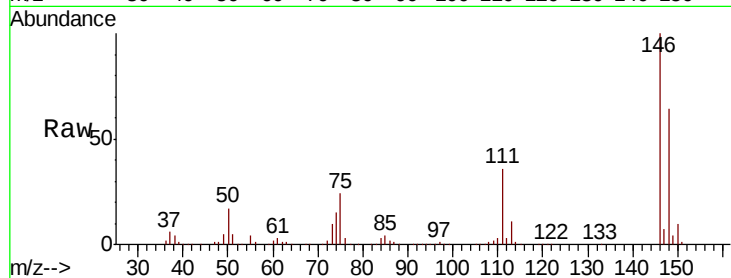




#87
 1,3-Dichlorobenzene
 Concen: 21.24 ug/l
 RT: 13.30 min Scan# 1197
 Delta R.T. 0.01 min
 Lab File: VD060051.D
 Acq: 20 Sep 2018 12:35

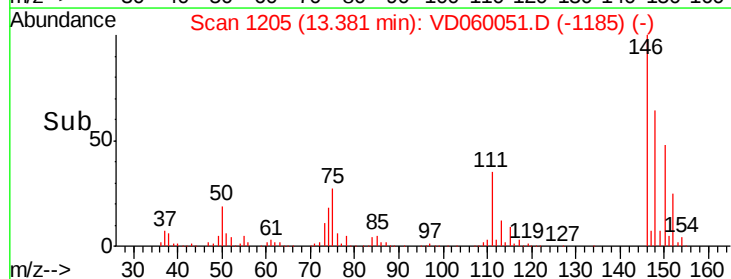
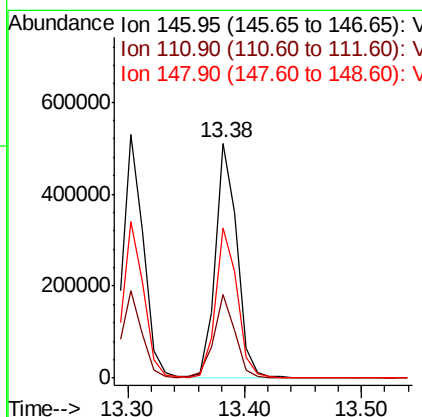
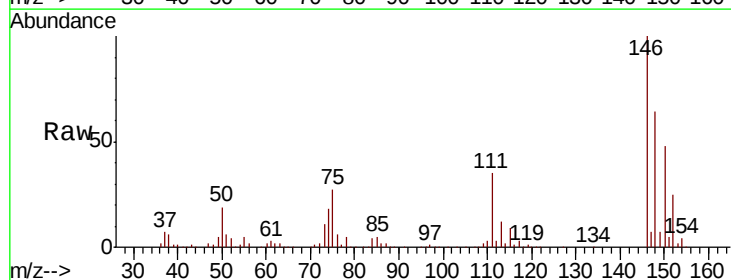
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0920SBS01

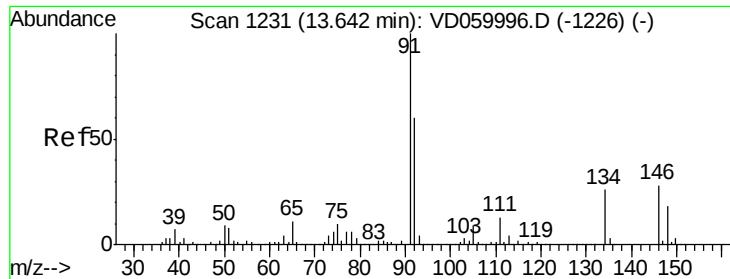
Tot Ion	Ratio	Lower	Upper
146	100		
111	36.0	20.2	60.5
148	64.1	32.0	96.2



#88
 1,4-Dichlorobenzene
 Concen: 20.45 ug/l
 RT: 13.38 min Scan# 1205
 Delta R.T. -0.00 min
 Lab File: VD060051.D
 Acq: 20 Sep 2018 12:35

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.5	16.7	50.0
148	63.8	32.9	98.6

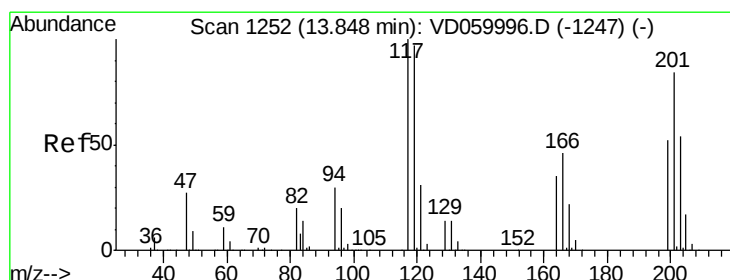
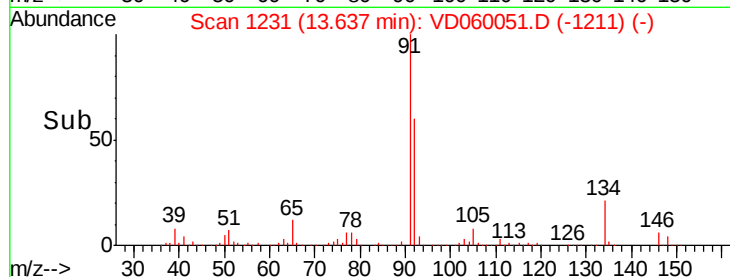
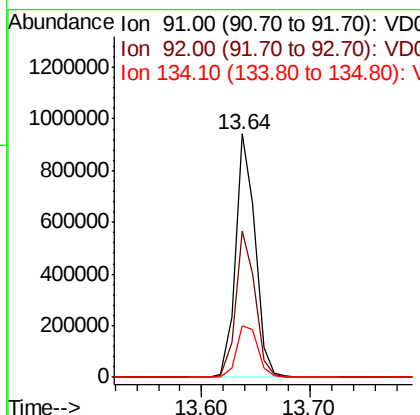
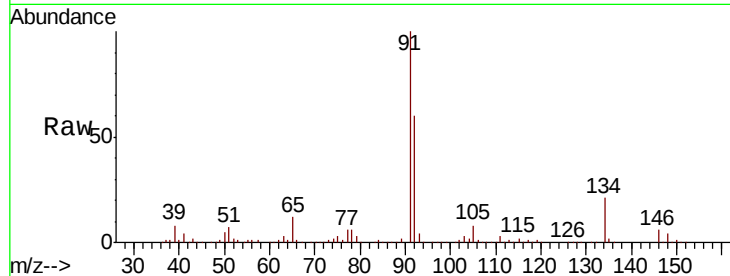




#89
n-Butylbenzene
Concen: 20.46 ug/l
RT: 13.64 min Scan# 1231
Delta R.T. -0.00 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

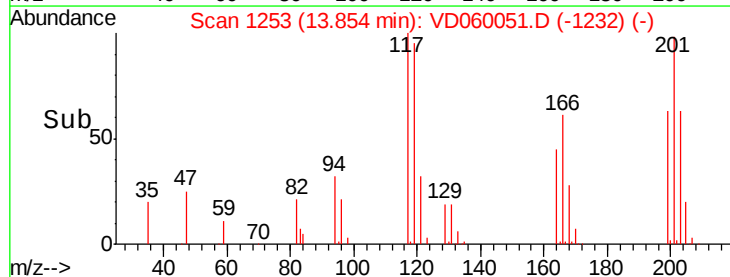
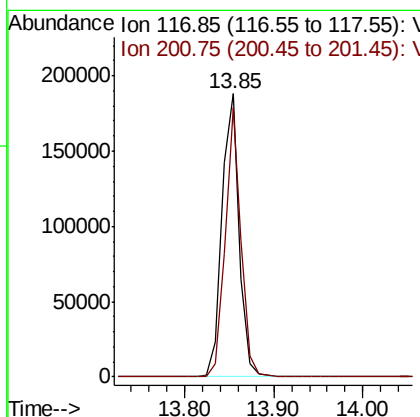
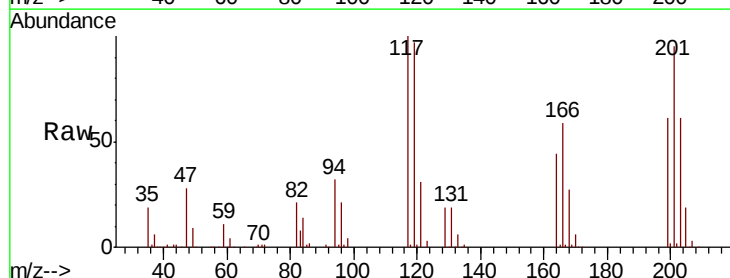
Instrument :
MSVOA_D
ClientSampleId :
VD0920SBS01

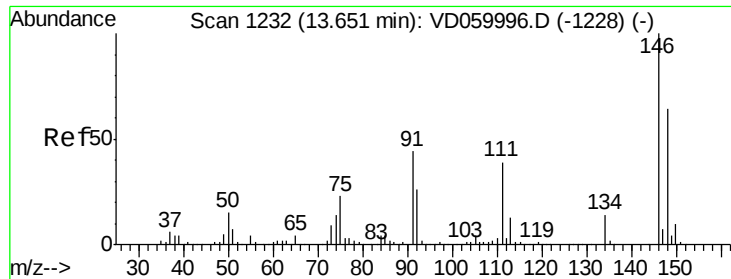
Tot Ion: 91 Resp: 1183946
Ion Ratio Lower Upper
91 100
92 60.1 29.8 89.3
134 21.1 13.2 39.6



#90
Hexachloroethane
Concen: 19.36 ug/l
RT: 13.85 min Scan# 1253
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Tgt Ion: 117 Resp: 256590
Ion Ratio Lower Upper
117 100
201 95.2 42.1 126.4





#91

1,2-Dichlorobenzene

Concen: 20.35 ug/l

RT: 13.66 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

Instrument :

MSVOA_D

ClientSampleId :

VD0920SBS01

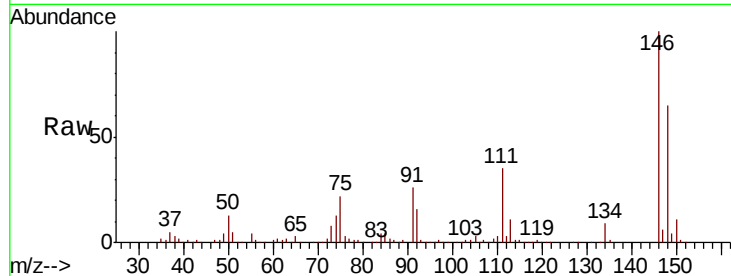
Tot Ion:146 Resp: 592414

Ion Ratio Lower Upper

146 100

111 35.4 19.6 58.7

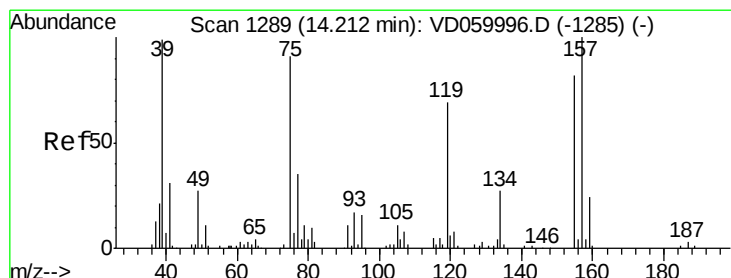
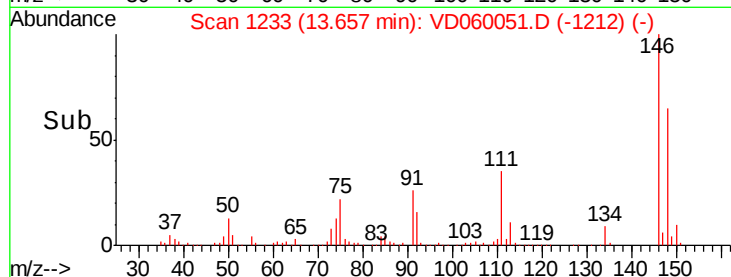
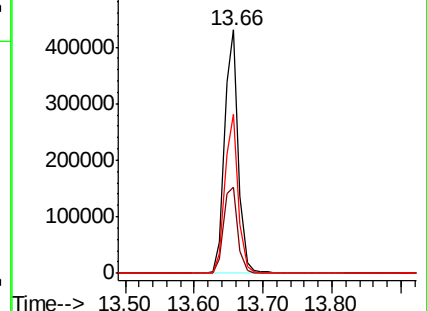
148 65.3 31.9 95.7



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 16.55 ug/l

RT: 14.22 min Scan# 1290

Delta R.T. 0.01 min

Lab File: VD060051.D

Acq: 20 Sep 2018 12:35

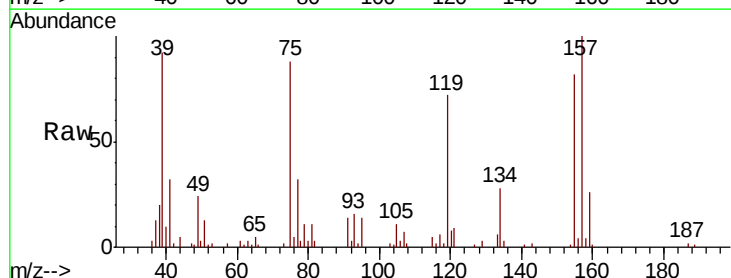
Tgt Ion: 75 Resp: 35927

Ion Ratio Lower Upper

75 100

155 93.0 44.7 134.1

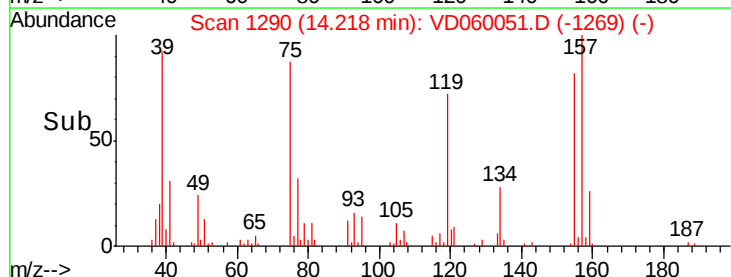
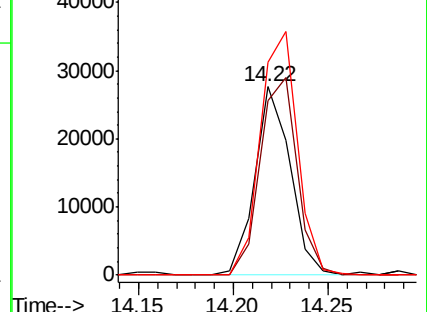
157 113.4 54.7 164.1

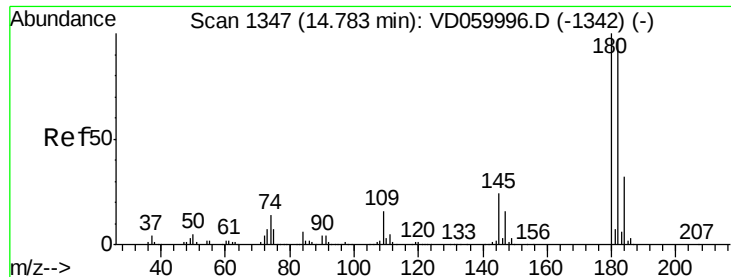


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V

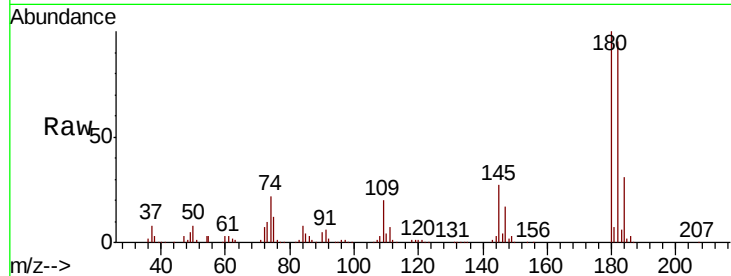




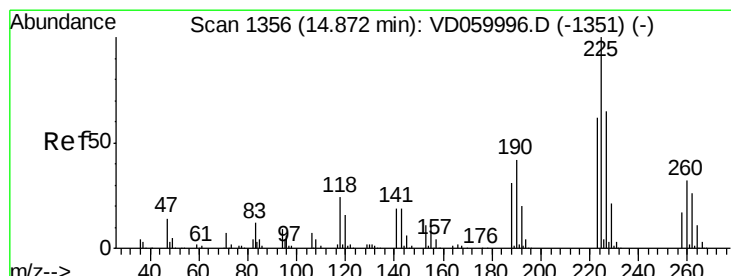
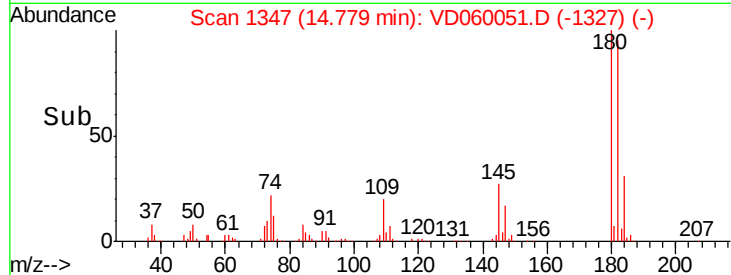
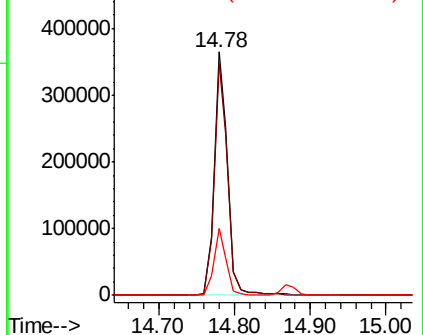
#93
 1,2,4-Trichlorobenzene
 Concen: 20.44 ug/l
 RT: 14.78 min Scan# 1347
 Delta R.T. -0.00 min
 Lab File: VD060051.D
 Acq: 20 Sep 2018 12:35

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0920SBS01

Tot Ion:180 Resp: 458068
 Ion Ratio Lower Upper
 180 100
 182 95.1 48.5 145.6
 145 27.3 11.9 35.7

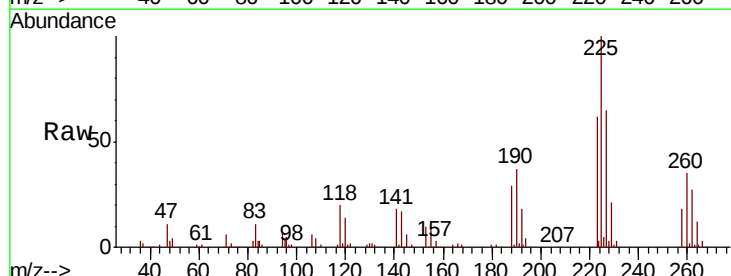


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

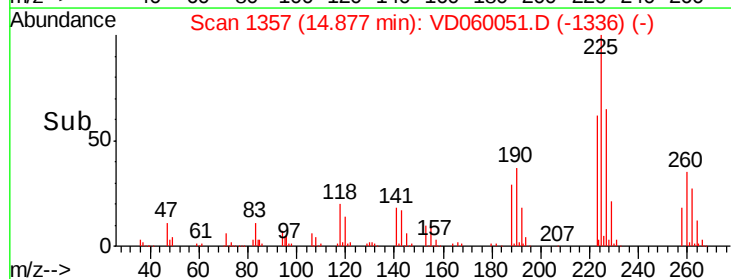
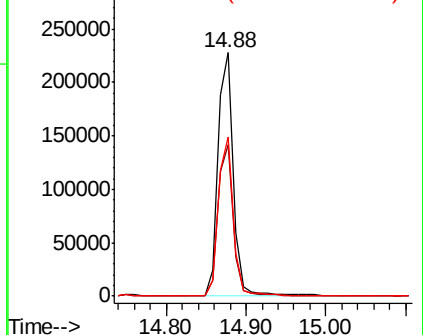


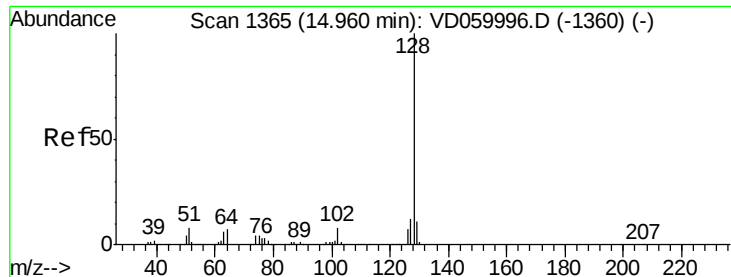
#94
 Hexachlorobutadiene
 Concen: 21.12 ug/l
 RT: 14.88 min Scan# 1357
 Delta R.T. 0.01 min
 Lab File: VD060051.D
 Acq: 20 Sep 2018 12:35

Tgt Ion:225 Resp: 313059
 Ion Ratio Lower Upper
 225 100
 223 62.3 31.2 93.6
 227 65.5 32.3 96.8



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

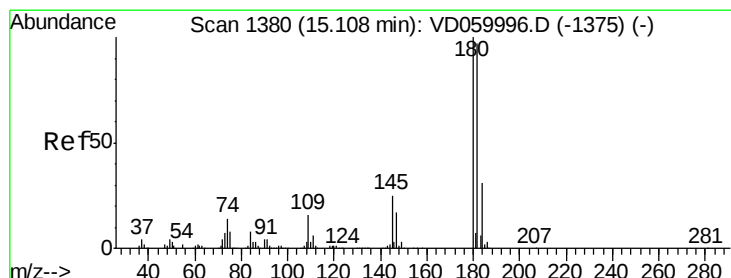
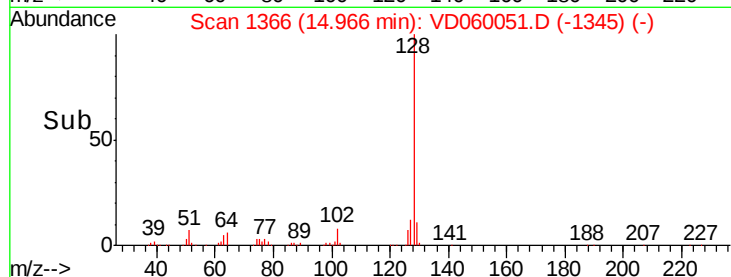
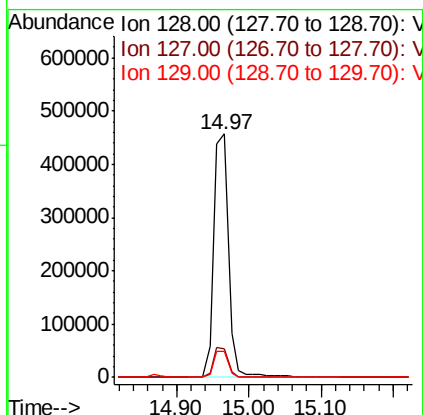
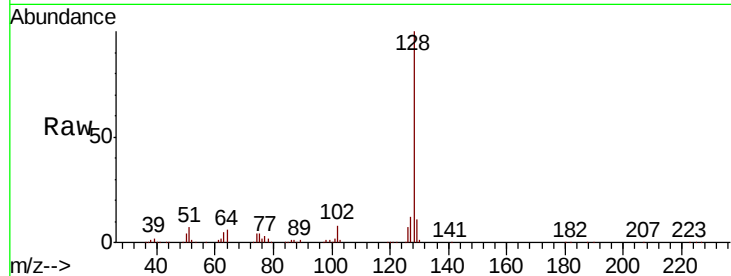




#95
Naphthalene
Concen: 18.61 ug/l
RT: 14.97 min Scan# 1366
Delta R.T. 0.01 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Instrument :
MSVOA_D
ClientSampleId :
VD0920SBS01

Tot Ion:128 Resp: 644048
Ion Ratio Lower Upper
128 100
127 11.8 9.7 14.5
129 10.5 8.9 13.3



#96
1,2,3-Trichlorobenzene
Concen: 19.24 ug/l
RT: 15.10 min Scan# 1380
Delta R.T. -0.00 min
Lab File: VD060051.D
Acq: 20 Sep 2018 12:35

Tgt Ion:180 Resp: 379858
Ion Ratio Lower Upper
180 100
182 97.3 48.6 145.9
145 31.0 12.7 38.1

