

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD070218\
 Data File : VD059507.D
 Acq On : 2 Jul 2018 17:06
 Operator : VA/AP
 Sample : VSTDIC005
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC005

Quant Time: Jul 03 01:35:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D070218S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 03 01:26:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.62	168	617643	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.66	114	890660	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.67	117	715314	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.89	152	384400	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.99	65	35485	4.54	ug/l	0.00
Spiked Amount 50.000			Recovery =	9.08%		
35) Dibromofluoromethane	5.52	113	33862	4.49	ug/l	0.00
Spiked Amount 50.000			Recovery =	8.98%		
50) Toluene-d8	8.69	98	80488	4.63	ug/l	0.00
Spiked Amount 50.000			Recovery =	9.26%		
62) 4-Bromofluorobenzene	11.92	95	36914	4.99	ug/l	0.00
Spiked Amount 50.000			Recovery =	9.98%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.33	85	33768	4.43	ug/l	96
3) Chloromethane	1.47	50	19910	5.53	ug/l	89
4) Vinyl Chloride	1.53	62	17334	4.76	ug/l	89
5) Bromomethane	1.78	94	7983	5.72	ug/l	89
6) Chloroethane	1.86	64	9280	5.81	ug/l #	86
7) Trichlorofluoromethane	2.06	101	32821	5.62	ug/l	98
8) Diethyl Ether	2.32	74	5963	5.31	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	2.53	101	19043	5.34	ug/l	98
10) Methyl Iodide	2.68	142	14576	3.99	ug/l #	79
11) Tert butyl alcohol	3.25	59	7564	29.49	ug/l #	72
12) 1,1-Dichloroethene	2.52	96	15414	5.66	ug/l	81
13) Acrolein	2.45	56	2499	16.57	ug/l #	63
14) Allyl chloride	2.89	41	31249	5.13	ug/l	95
15) Acrylonitrile	3.33	53	17887	24.59	ug/l #	72
16) Acetone	2.59	43	30863	30.13	ug/l	96
17) Carbon Disulfide	2.73	76	38142	4.45	ug/l	99
18) Methyl Acetate	2.91	43	15553	6.68	ug/l	96
19) Methyl tert-butyl Ether	3.37	73	38179	4.89	ug/l	96
20) Methylene Chloride	3.04	84	39858	11.61	ug/l #	87
21) trans-1,2-Dichloroethene	3.36	96	15797	4.77	ug/l	84
22) Diisopropyl ether	4.03	45	118894	5.41	ug/l	95
23) Vinyl Acetate	3.98	43	282830	23.40	ug/l	99
24) 1,1-Dichloroethane	3.95	63	64817	5.14	ug/l	99
25) 2-Butanone	4.81	43	60699	28.26	ug/l	96
26) 2,2-Dichloropropane	4.77	77	54698	5.36	ug/l	87
27) cis-1,2-Dichloroethene	4.77	96	36910	5.42	ug/l	97
28) Bromochloromethane	5.12	49	24856	5.21	ug/l #	83
29) Tetrahydrofuran	5.17	42	30191	27.37	ug/l	96
30) Chloroform	5.29	83	69981	5.26	ug/l	97
31) Cyclohexane	5.56	56	65912	6.90	ug/l	96
32) 1,1,1-Trichloroethane	5.48	97	53635	5.06	ug/l	96
36) 1,1-Dichloropropene	5.72	75	54528	5.81	ug/l	97
37) Ethyl Acetate	4.90	43	27971	5.30	ug/l	97
38) Carbon Tetrachloride	5.70	117	52162	5.71	ug/l	95

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 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC005

Quant Time: Jul 03 01:35:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D070218S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 03 01:26:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.26	83	46392	5.34	ug/l	95
40) Benzene	5.98	78	121757	5.63	ug/l	98
41) Methacrylonitrile	5.10	41	14606	5.55	ug/l #	89
42) 1,2-Dichloroethane	6.10	62	49916	5.17	ug/l	94
43) Isopropyl Acetate	7.60	43	34737	5.04	ug/l #	90
44) Trichloroethene	6.96	130	35781	5.29	ug/l	99
45) 1,2-Dichloropropane	7.32	63	34938	5.86	ug/l #	86
46) Dibromomethane	7.43	93	20793	5.06	ug/l	95
47) Bromodichloromethane	7.72	83	47243	4.98	ug/l	92
48) Methyl methacrylate	7.48	41	21585	5.07	ug/l #	86
49) 1,4-Dioxane	7.47	88	3762	92.18	ug/l #	83
51) 4-Methyl-2-Pentanone	8.57	43	112404	24.68	ug/l	98
52) Toluene	8.78	92	66648	5.50	ug/l	94
53) t-1,3-Dichloropropene	9.16	75	40344	4.88	ug/l	98
54) cis-1,3-Dichloropropene	8.34	75	48677	5.10	ug/l	98
55) 1,1,2-Trichloroethane	9.44	97	24155	5.50	ug/l #	84
56) Ethyl methacrylate	9.29	69	28949	5.36	ug/l	92
57) 1,3-Dichloropropane	9.64	76	42797	5.50	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.17	63	76876	29.17	ug/l	99
59) 2-Hexanone	9.76	43	86950	26.36	ug/l	93
60) Dibromochloromethane	9.94	129	29118	4.71	ug/l	84
61) 1,2-Dibromoethane	10.08	107	25675	5.26	ug/l #	78
64) Tetrachloroethene	9.50	164	34158	5.49	ug/l	92
65) Chlorobenzene	10.71	112	73488	5.36	ug/l	93
66) 1,1,1,2-Tetrachloroethane	10.84	131	27426	5.00	ug/l	94
67) Ethyl Benzene	10.85	91	138986	5.83	ug/l	98
68) m/p-Xylenes	10.99	106	97255	12.58	ug/l	83
69) o-Xylene	11.40	106	44150	5.85	ug/l	87
70) Styrene	11.42	104	76234	6.02	ug/l	96
71) Bromoform	11.59	173	19015	4.57	ug/l	94
73) Isopropylbenzene	11.76	105	118938	5.19	ug/l	94
74) N-amyl acetate	11.63	43	43195	4.51	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.07	83	32260	5.65	ug/l	95
76) 1,2,3-Trichloropropane	12.10	75	32374	5.35	ug/l	96
77) Bromobenzene	12.03	156	37476	5.25	ug/l	94
78) n-propylbenzene	12.15	91	161341	5.28	ug/l	97
79) 2-Chlorotoluene	12.20	91	95518	5.37	ug/l	97
80) 1,3,5-Trimethylbenzene	12.31	105	101648	5.49	ug/l	91
81) trans-1,4-Dichloro-2-buten	11.83	75	6459	4.41	ug/l	90
82) 4-Chlorotoluene	12.31	91	113550	5.61	ug/l	96
83) tert-Butylbenzene	12.57	119	109686	5.35	ug/l	93
84) 1,2,4-Trimethylbenzene	12.62	105	108288	5.49	ug/l	98
85) sec-Butylbenzene	12.75	105	132093	5.49	ug/l	98
86) p-Isopropyltoluene	12.87	119	111613	5.59	ug/l	96
87) 1,3-Dichlorobenzene	12.83	146	63472	5.18	ug/l	98
88) 1,4-Dichlorobenzene	12.91	146	66644	5.63	ug/l	91
89) n-Butylbenzene	13.19	91	115688	5.69	ug/l	99
90) Hexachloroethane	13.40	117	23925	4.62	ug/l #	57
91) 1,2-Dichlorobenzene	13.18	146	57343	5.58	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.76	75	5948	6.35	ug/l #	57

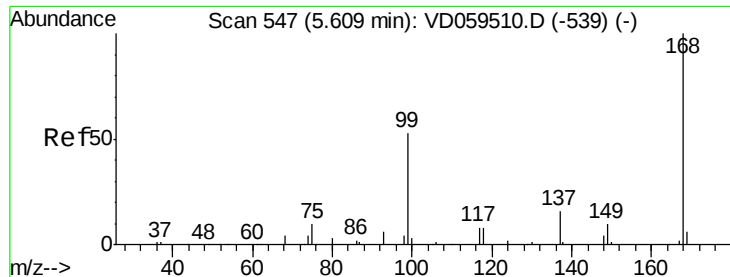
Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD070218\
Data File : VD059507.D
Acq On : 2 Jul 2018 17:06
Operator : VA/AP
Sample : VSTDICC005
Misc : 5.00g/5ml/MSVOA D/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VSTDICC005

Quant Time: Jul 03 01:35:18 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D070218S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 03 01:26:31 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.33	180	48639	5.35	ug/l	95
94) Hexachlorobutadiene	14.43	225	34734	4.95	ug/l	91
95) Naphthalene	14.51	128	68352	5.08	ug/l	99
96) 1,2,3-Trichlorobenzene	14.66	180	39231	4.83	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.62 min Scan# 548

Delta R.T. 0.01 min

Lab File: VD059507.D

Acq: 2 Jul 2018 17:06

Instrument :

MSVOA_D

ClientSampleId :

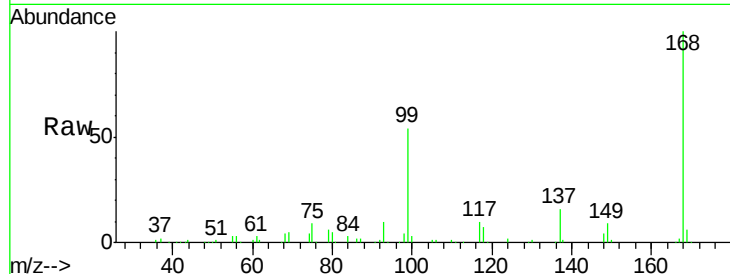
VSTDIC005

Tot Ion:168 Resp: 617643

Ion Ratio Lower Upper

168 100

99 53.6 45.1 67.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

5.62

250000

200000

150000

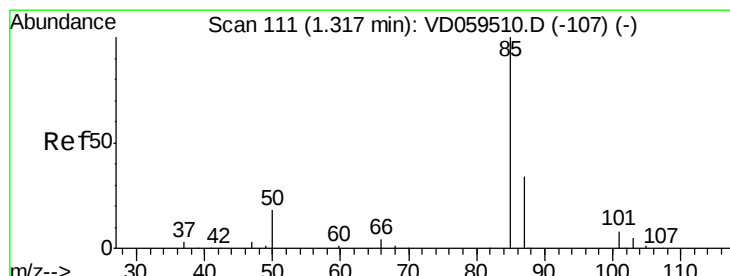
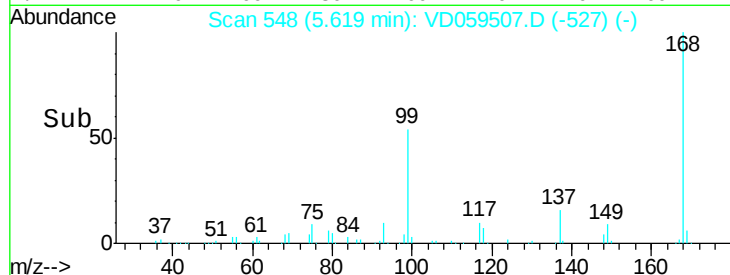
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 4.43 ug/l

RT: 1.33 min Scan# 112

Delta R.T. 0.01 min

Lab File: VD059507.D

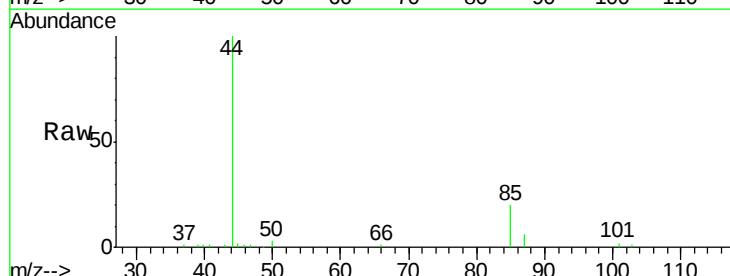
Acq: 2 Jul 2018 17:06

Tgt Ion: 85 Resp: 33768

Ion Ratio Lower Upper

85 100

87 31.4 16.8 50.4



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.33

15000

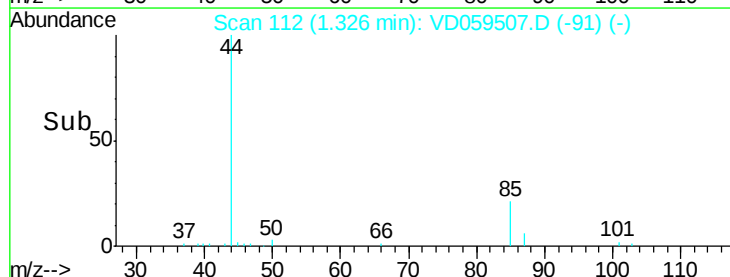
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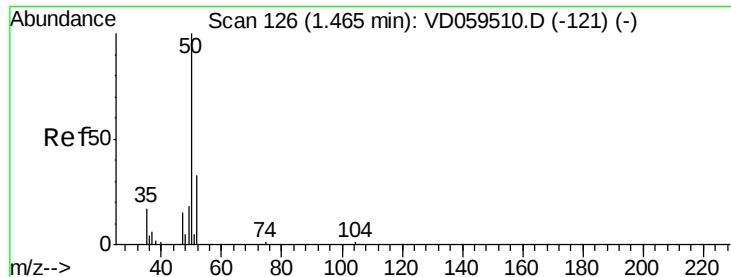
5000

0

Time-->

1.30 1.40





#3

Chloromethane

Concen: 5.53 ug/l

RT: 1.47 min Scan# 127

Delta R.T. 0.01 min

Lab File: VD059507.D

Acq: 2 Jul 2018 17:06

Instrument :

MSVOA_D

ClientSampleId :

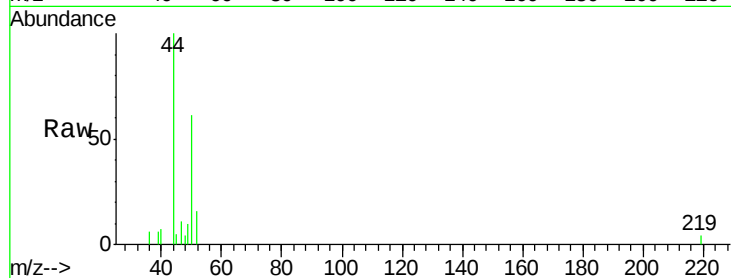
VSTDIC005

Tot Ion: 50 Resp: 19910

Ion Ratio Lower Upper

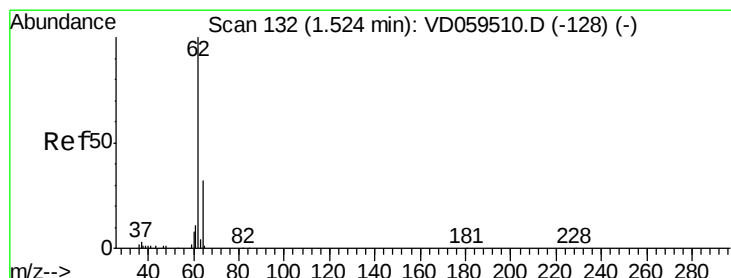
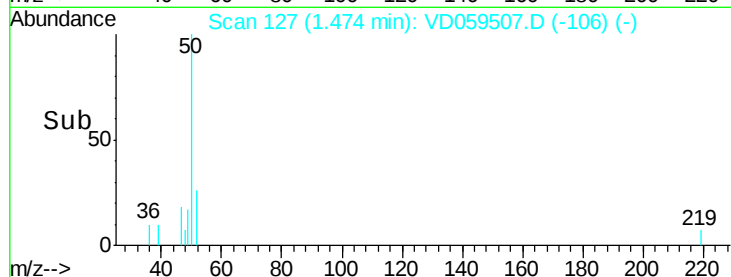
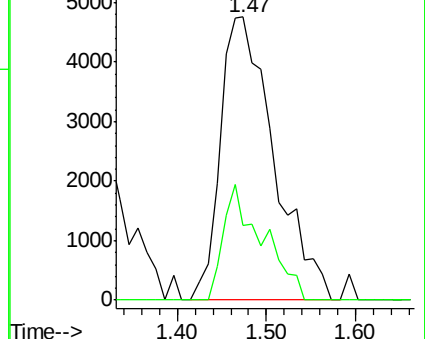
50 100

52 26.2 25.8 38.6



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 4.76 ug/l

RT: 1.53 min Scan# 133

Delta R.T. 0.01 min

Lab File: VD059507.D

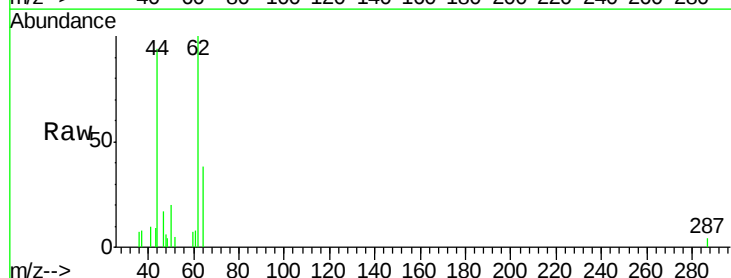
Acq: 2 Jul 2018 17:06

Tgt Ion: 62 Resp: 17334

Ion Ratio Lower Upper

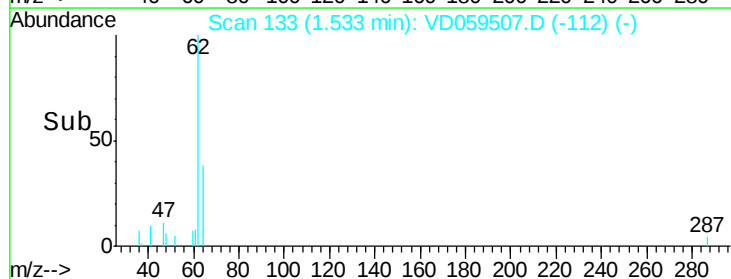
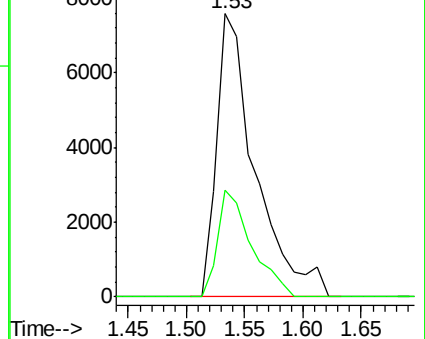
62 100

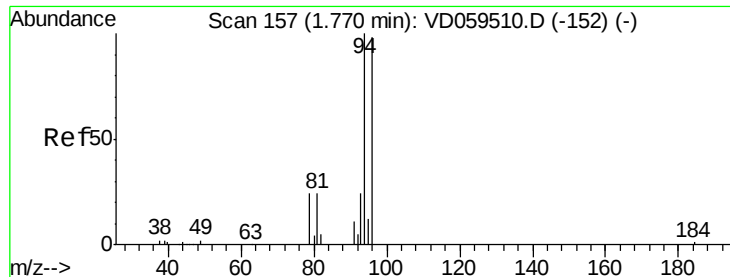
64 37.9 25.4 38.2



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 5.72 ug/l

RT: 1.78 min Scan# 158

Delta R.T. 0.01 min

Lab File: VD059507.D

Acq: 2 Jul 2018 17:06

Instrument :

MSVOA_D

ClientSampleId :

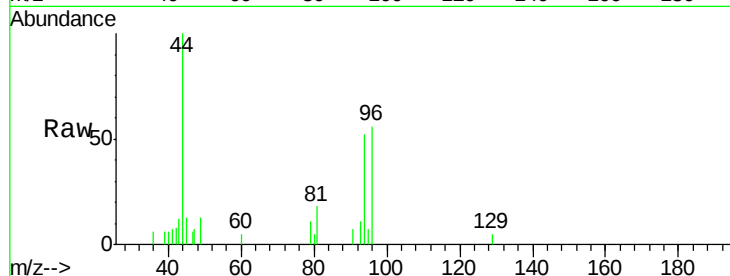
VSTDIC005

Tot Ion: 94 Resp: 7983

Ion Ratio Lower Upper

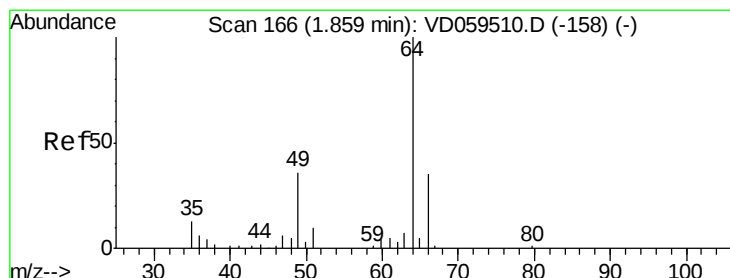
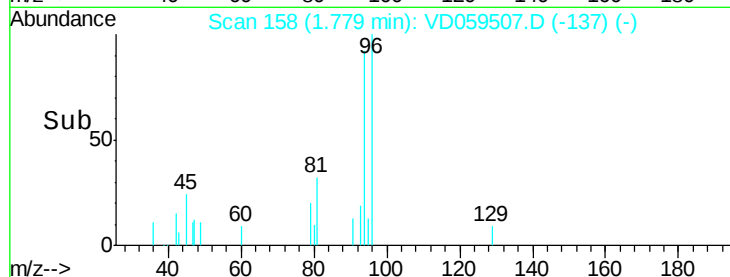
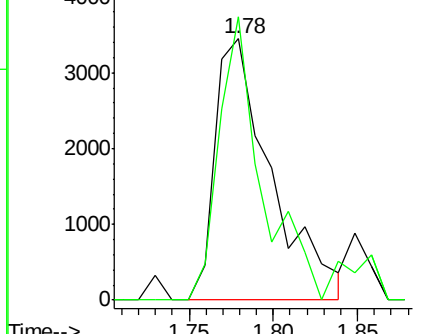
94 100

96 108.2 78.2 117.4



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 5.81 ug/l

RT: 1.86 min Scan# 166

Delta R.T. -0.00 min

Lab File: VD059507.D

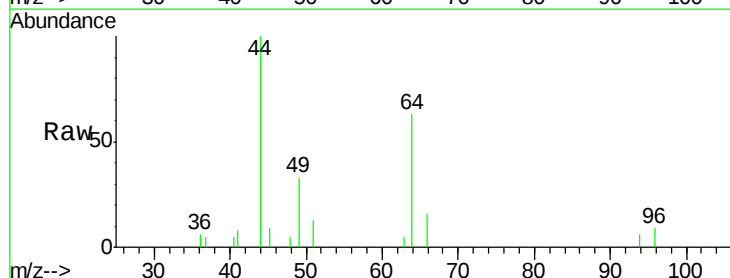
Acq: 2 Jul 2018 17:06

Tgt Ion: 64 Resp: 9280

Ion Ratio Lower Upper

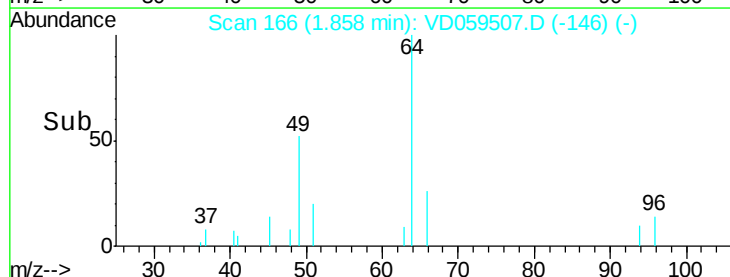
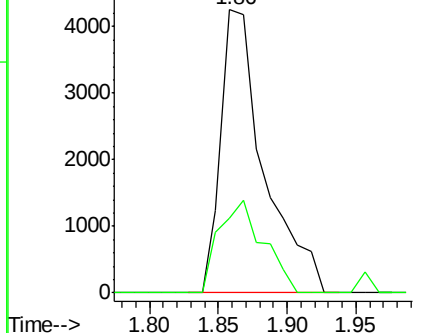
64 100

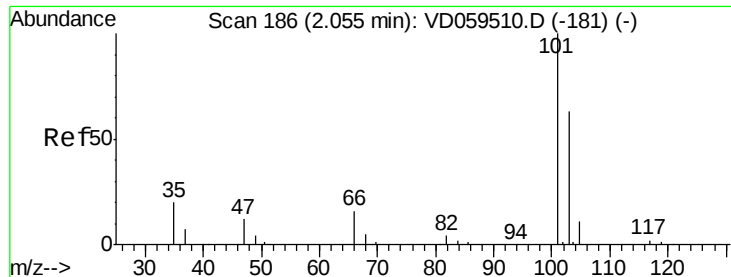
66 26.3 27.6 41.4#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

Trichlorofluoromethane

Concen: 5.62 ug/l

RT: 2.06 min Scan# 187

Delta R.T. 0.01 min

Lab File: VD059507.D

Acq: 2 Jul 2018 17:06

Instrument :

MSVOA_D

ClientSampleId :

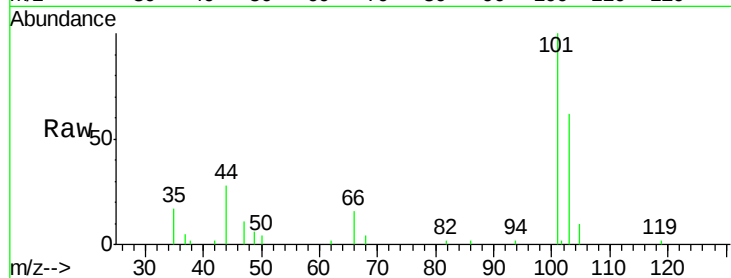
VSTDIC005

Tot Ion:101 Resp: 32821

Ion Ratio Lower Upper

101 100

103 62.1 50.6 76.0



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 102.85 (102.55 to 103.55): V

20000

15000

10000

5000

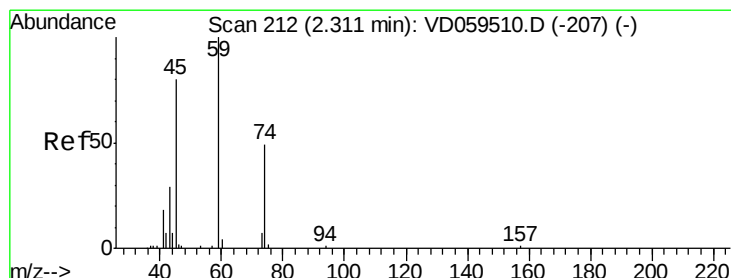
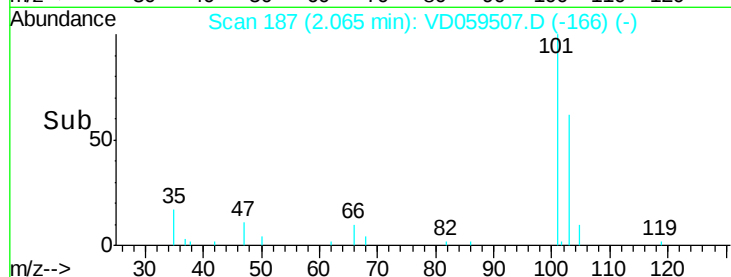
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Time-->

2.00

2.10

2.20



#8

Diethyl Ether

Concen: 5.31 ug/l

RT: 2.32 min Scan# 213

Delta R.T. 0.01 min

Lab File: VD059507.D

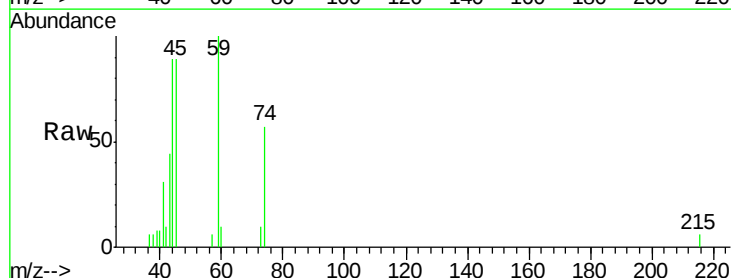
Acq: 2 Jul 2018 17:06

Tgt Ion: 74 Resp: 5963

Ion Ratio Lower Upper

74 100

45 156.1 83.5 250.3



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC

5000

4000

3000

2000

1000

0

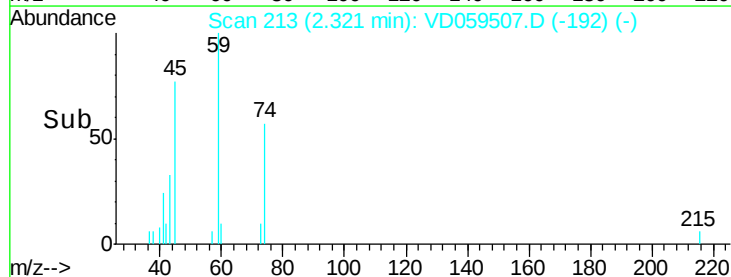
Time-->

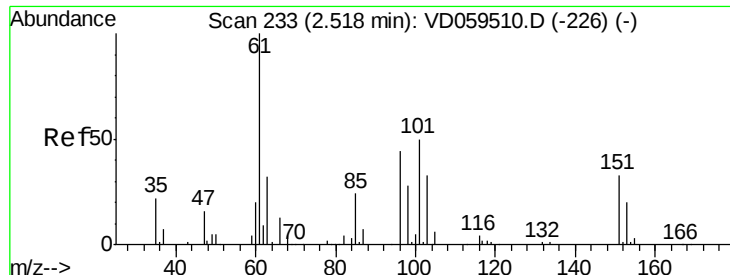
2.25

2.30

2.35

2.40





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.34 ug/l

RT: 2.53 min Scan# 234

Delta R.T. 0.01 min

Lab File: VD059507.D

Acq: 2 Jul 2018 17:06

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

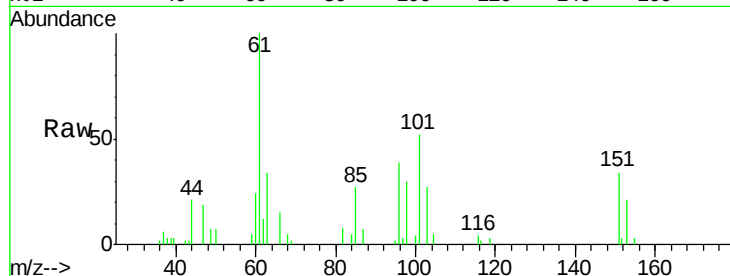
Tot Ion:101 Resp: 19043

Ion Ratio Lower Upper

101 100

85 51.8 38.8 58.2

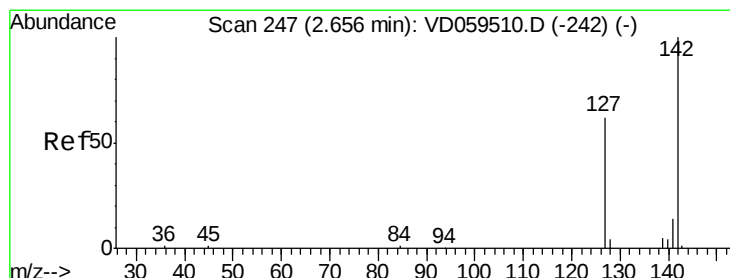
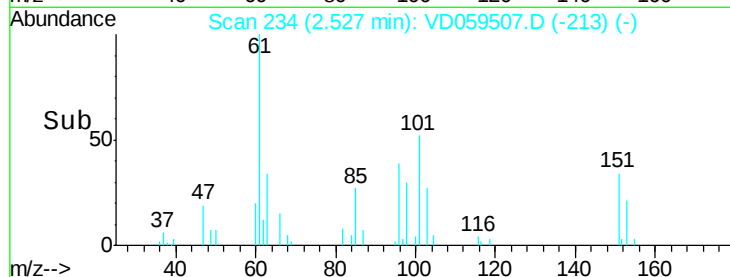
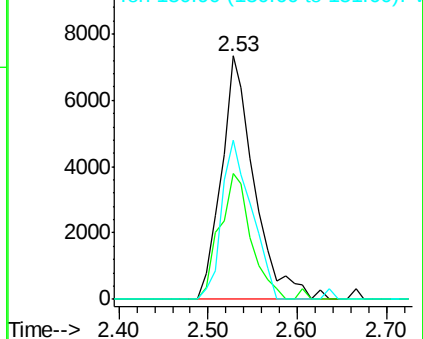
151 65.3 52.6 79.0



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 3.99 ug/l

RT: 2.68 min Scan# 249

Delta R.T. 0.02 min

Lab File: VD059507.D

Acq: 2 Jul 2018 17:06

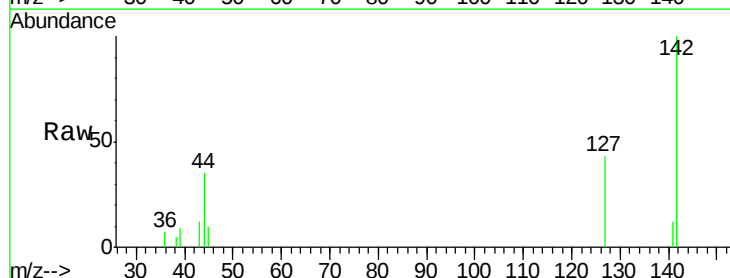
Tgt Ion:142 Resp: 14576

Ion Ratio Lower Upper

142 100

127 43.1 49.8 74.8#

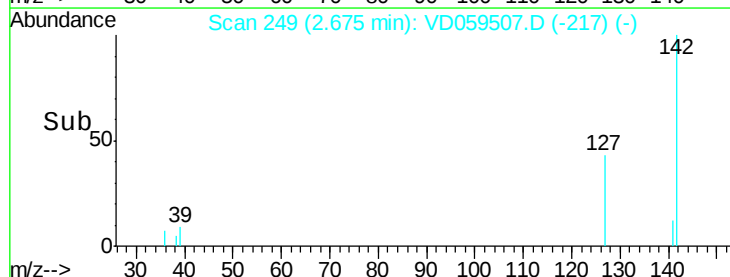
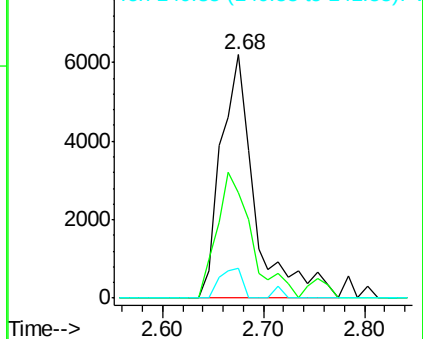
141 12.4 11.1 16.7

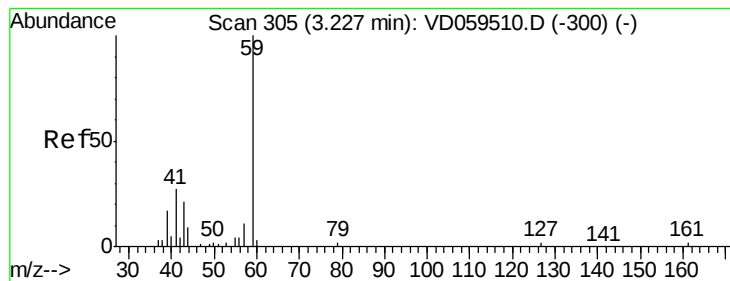


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



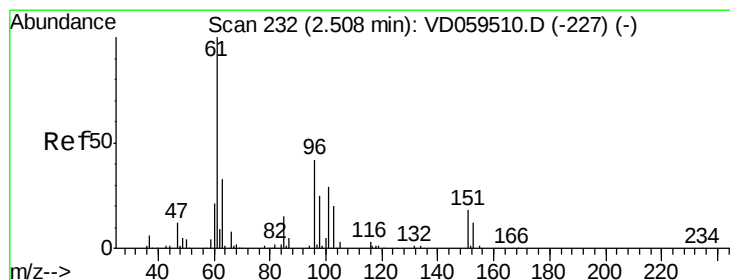
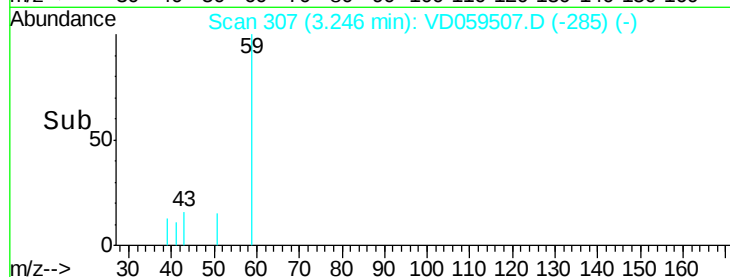
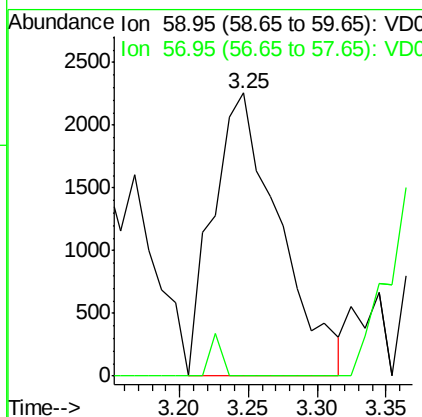
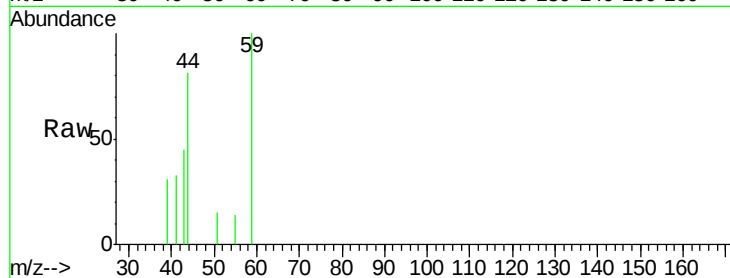


#11

Tert butyl alcohol
 Concen: 29.49 ug/l
 RT: 3.25 min Scan# 307
 Delta R.T. 0.02 min
 Lab File: VD059507.D
 Acq: 2 Jul 2018 17:06

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC005

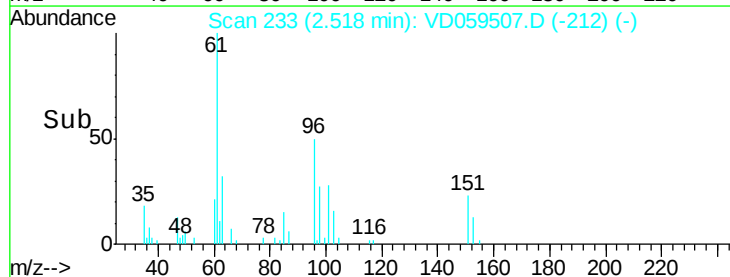
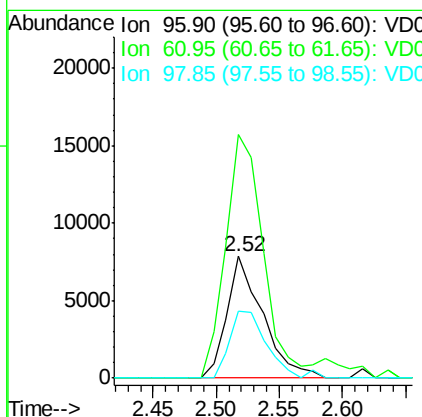
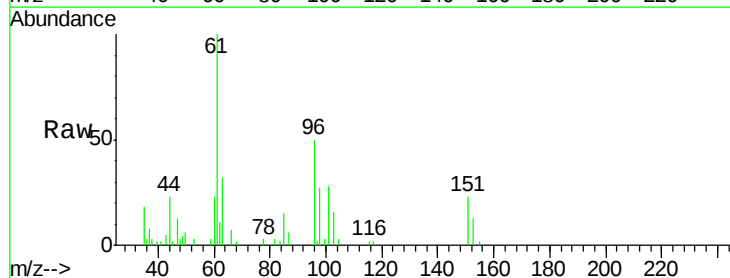
Tot Ion: 59 Resp: 7564
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.6 12.8#

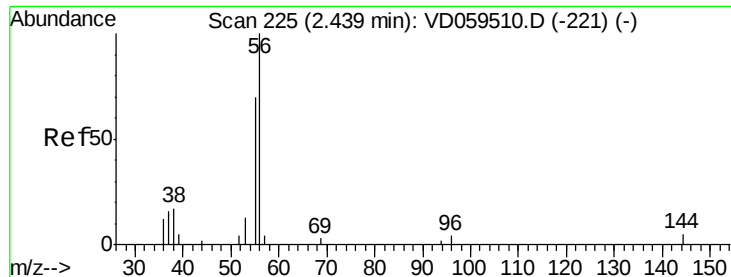


#12

1,1-Dichloroethene
 Concen: 5.66 ug/l
 RT: 2.52 min Scan# 233
 Delta R.T. 0.01 min
 Lab File: VD059507.D
 Acq: 2 Jul 2018 17:06

Tgt Ion: 96 Resp: 15414
 Ion Ratio Lower Upper
 96 100
 61 200.4 189.4 284.0
 98 54.7 47.9 71.9





#13

Acrolein

Concen: 16.57 ug/l

RT: 2.45 min Scan# 226

Delta R.T. 0.01 min

Lab File: VD059507.D

Acq: 2 Jul 2018 17:06

Instrument :

MSVOA_D

ClientSampleId :

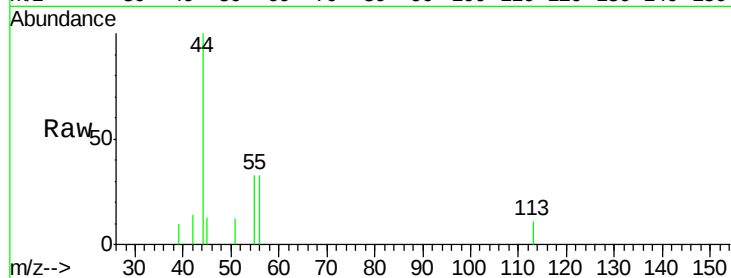
VSTDIC005

Tot Ion: 56 Resp: 2499

Ion Ratio Lower Upper

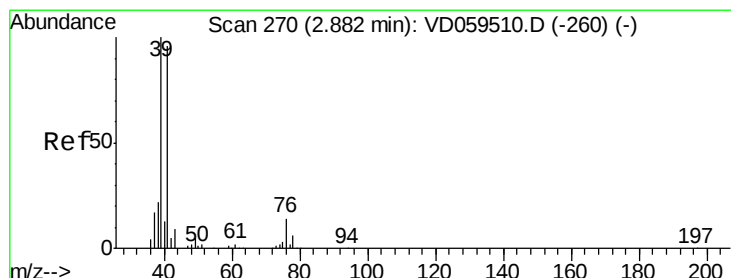
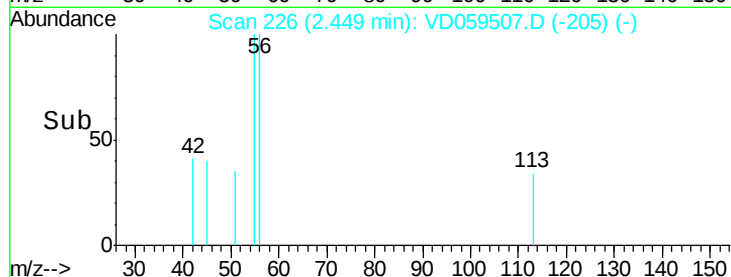
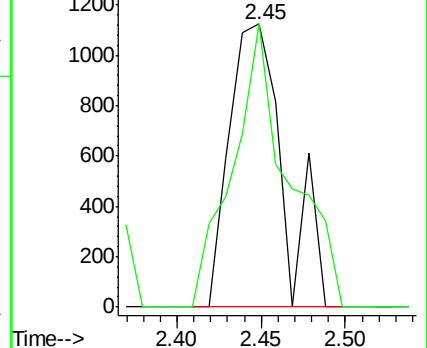
56 100

55 100.1 56.0 84.0#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 5.13 ug/l

RT: 2.89 min Scan# 271

Delta R.T. 0.01 min

Lab File: VD059507.D

Acq: 2 Jul 2018 17:06

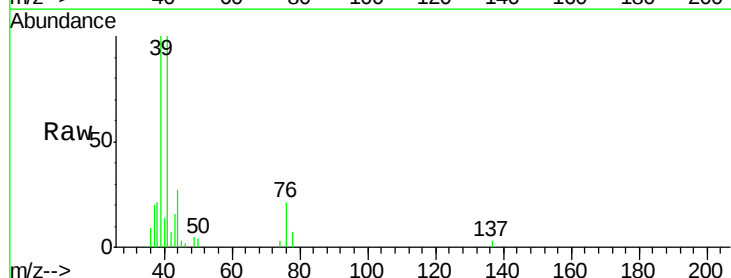
Tgt Ion: 41 Resp: 31249

Ion Ratio Lower Upper

41 100

39 100.0 83.8 125.8

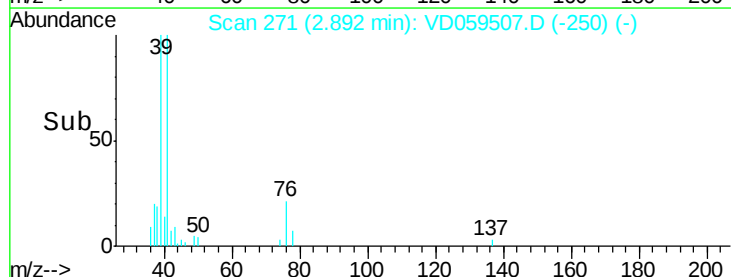
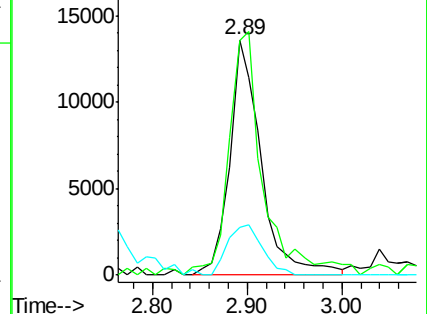
76 20.6 18.4 27.6

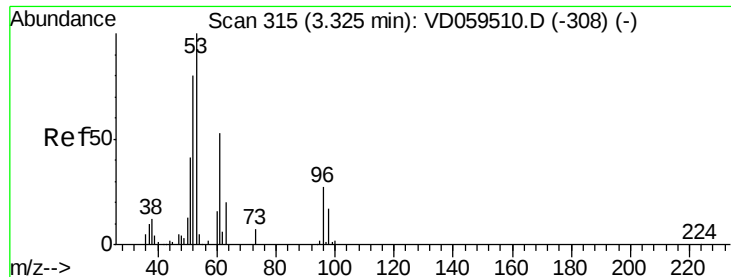


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 24.59 ug/l

RT: 3.33 min Scan# 316

Delta R.T. 0.01 min

Lab File: VD059507.D

Acq: 2 Jul 2018 17:06

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

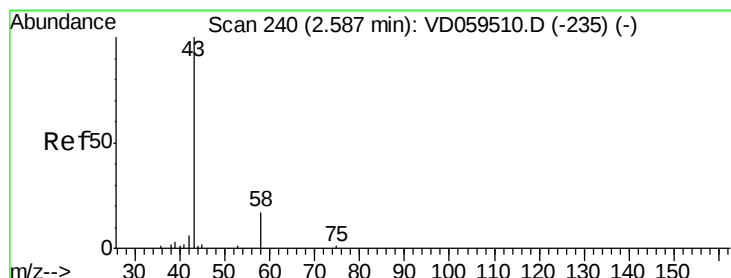
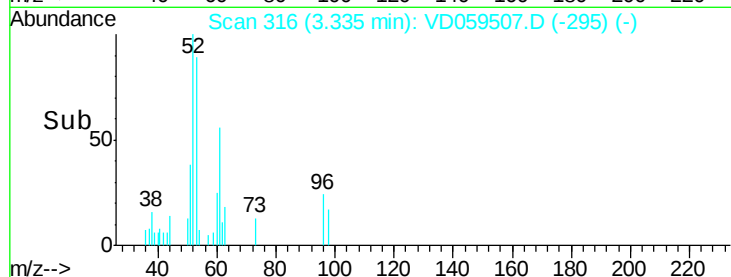
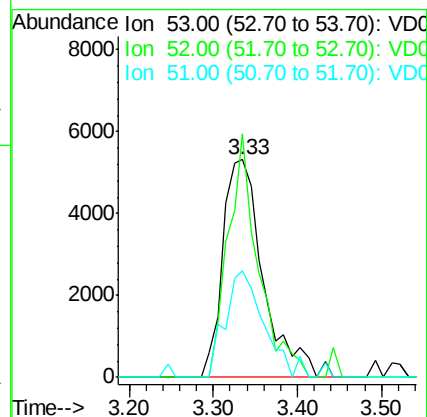
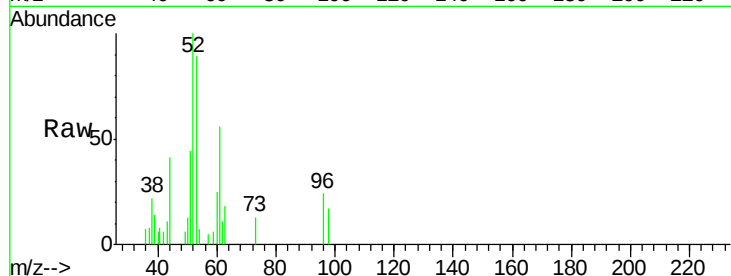
Tot Ion: 53 Resp: 17887

Ion Ratio Lower Upper

53 100

52 111.8 64.3 96.5#

51 48.7 33.0 49.4



#16

Acetone

Concen: 30.13 ug/l

RT: 2.59 min Scan# 240

Delta R.T. -0.00 min

Lab File: VD059507.D

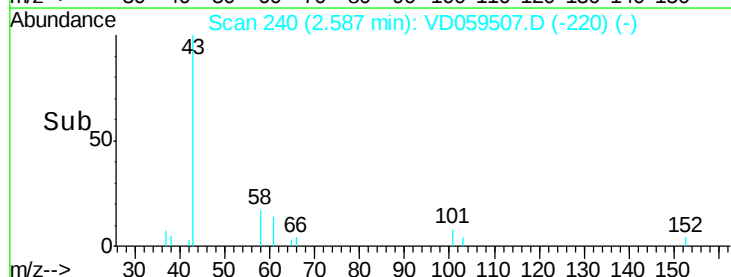
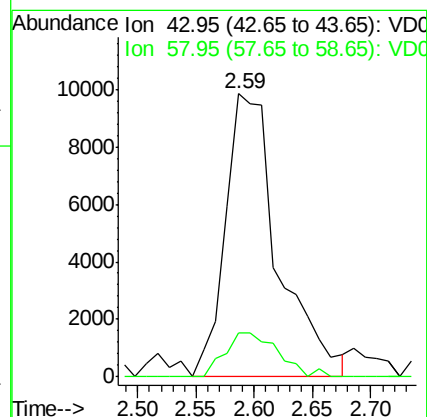
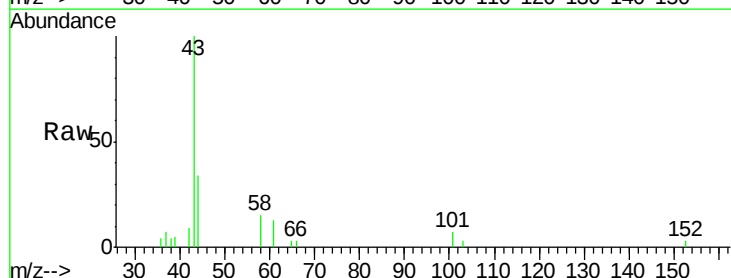
Acq: 2 Jul 2018 17:06

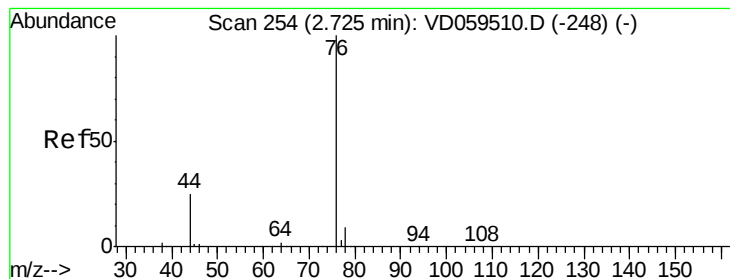
Tgt Ion: 43 Resp: 30863

Ion Ratio Lower Upper

43 100

58 15.4 13.8 20.8





#17

Carbon Disulfide

Concen: 4.45 ug/l

RT: 2.73 min Scan# 255

Delta R.T. 0.01 min

Lab File: VD059507.D

Acq: 2 Jul 2018 17:06

Instrument :

MSVOA_D

ClientSampleId :

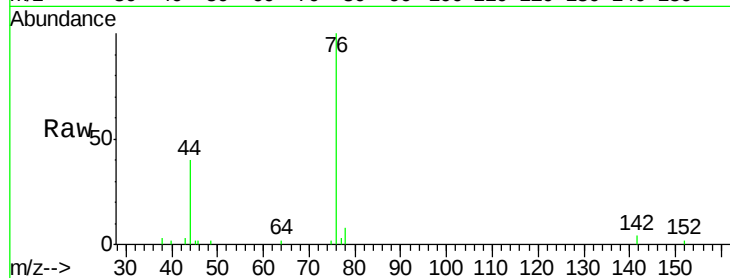
VSTDIC005

Tot Ion: 76 Resp: 38142

Ion Ratio Lower Upper

76 100

78 8.3 6.9 10.3



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

20000

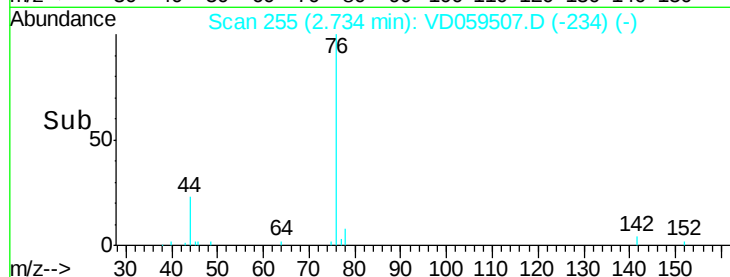
15000

10000

5000

0

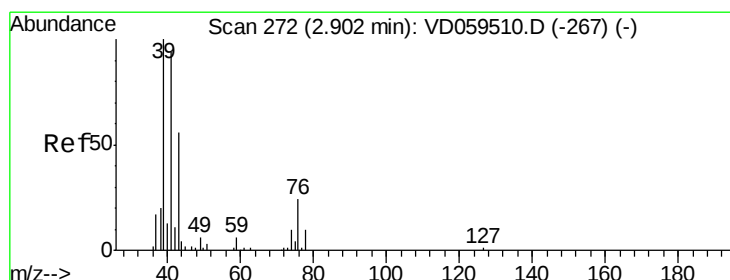
Time-->



2.73

2.80

2.90



#18

Methyl Acetate

Concen: 6.68 ug/l

RT: 2.91 min Scan# 273

Delta R.T. 0.01 min

Lab File: VD059507.D

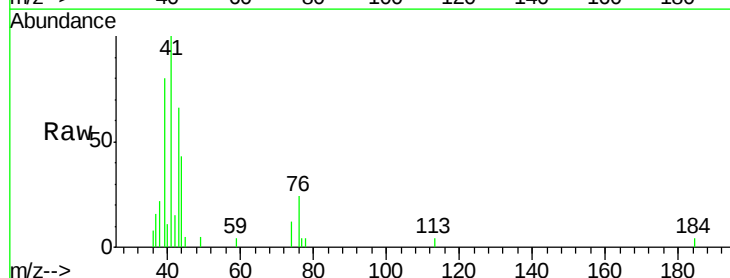
Acq: 2 Jul 2018 17:06

Tgt Ion: 43 Resp: 15553

Ion Ratio Lower Upper

43 100

74 18.8 13.8 20.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

6000

5000

4000

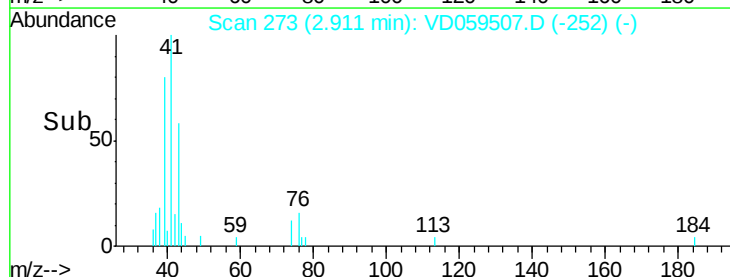
3000

2000

1000

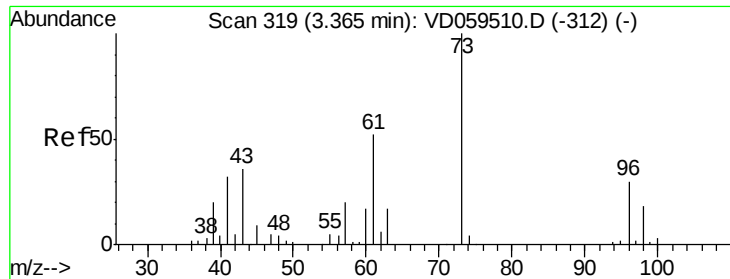
0

Time-->



2.91

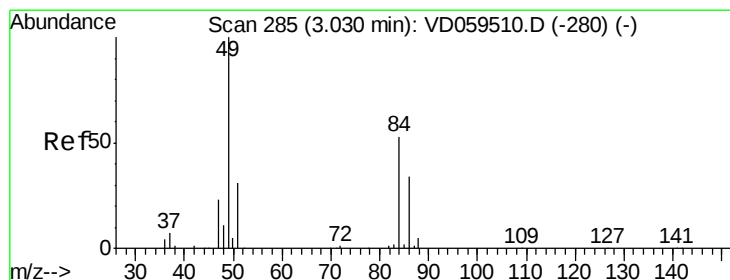
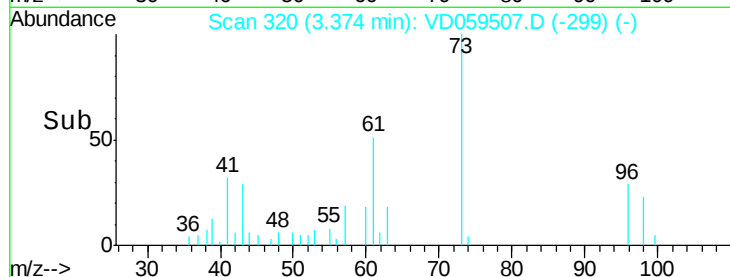
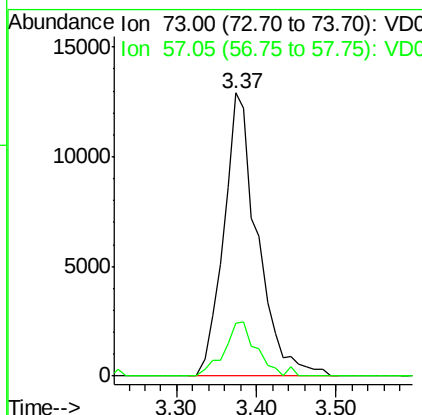
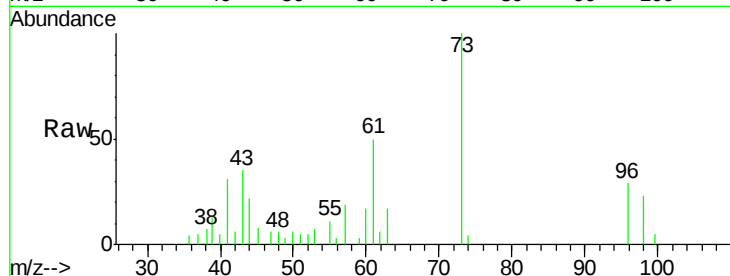
3.00



#19
Methyl tert-butyl Ether
Concen: 4.89 ug/l
RT: 3.37 min Scan# 320
Delta R.T. 0.01 min
Lab File: VD059507.D
Acq: 2 Jul 2018 17:06

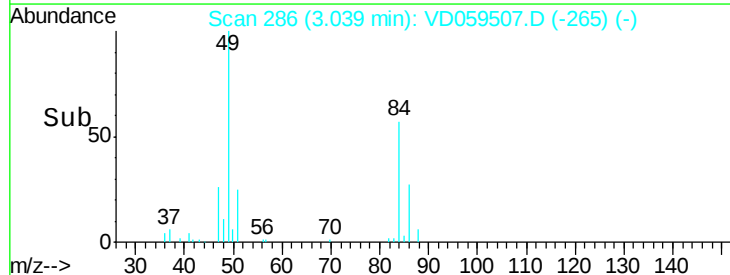
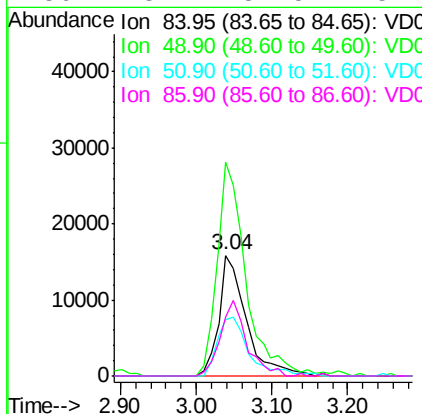
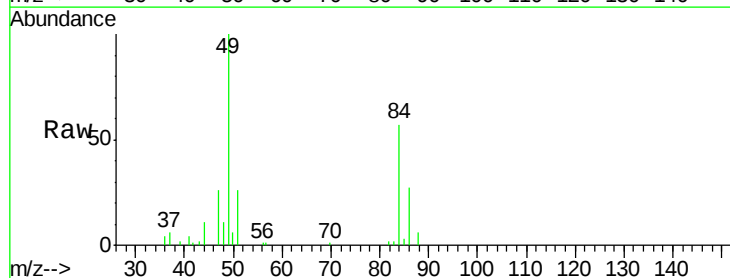
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

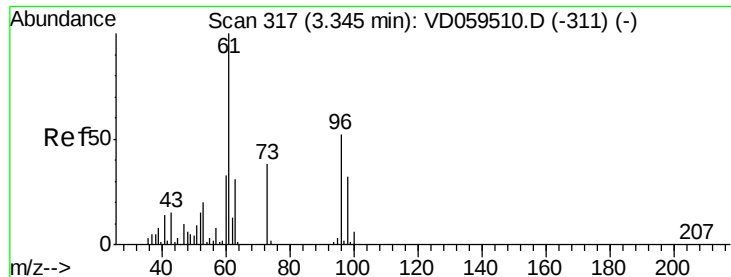
Tot Ion: 73 Resp: 38179
Ion Ratio Lower Upper
73 100
57 18.5 16.5 24.7



#20
Methylene Chloride
Concen: 11.61 ug/l
RT: 3.04 min Scan# 286
Delta R.T. 0.01 min
Lab File: VD059507.D
Acq: 2 Jul 2018 17:06

Tgt Ion: 84 Resp: 39858
Ion Ratio Lower Upper
84 100
49 177.0 152.2 228.2
51 46.6 46.5 69.7
86 48.4 52.5 78.7#

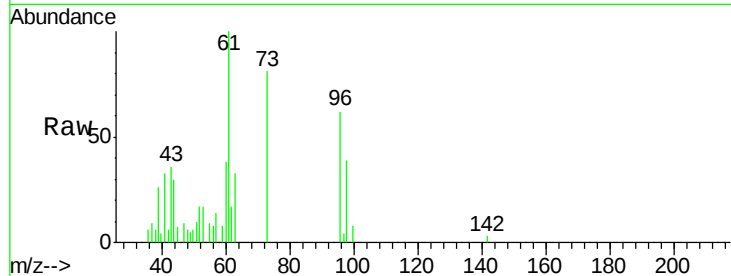




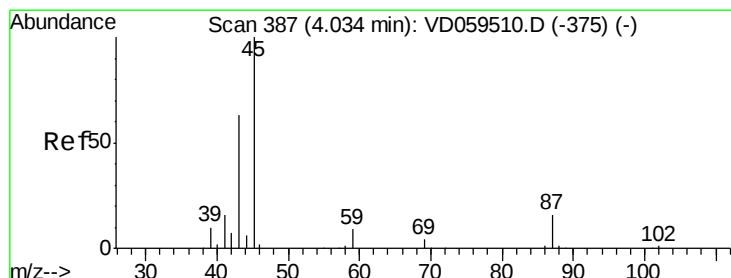
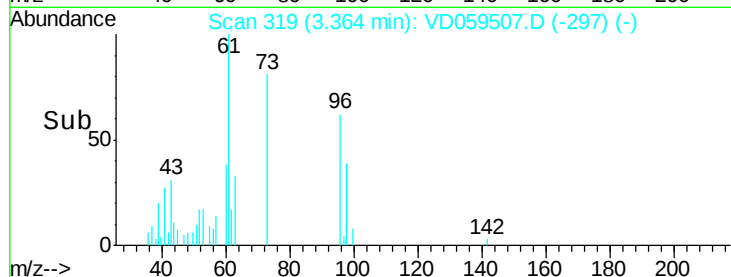
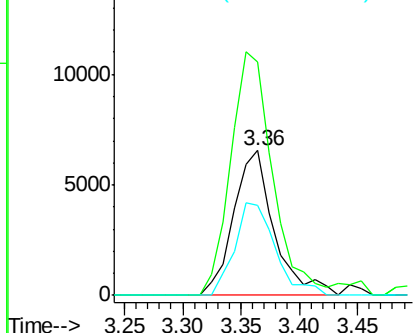
#21
trans-1,2-Dichloroethene
Concen: 4.77 ug/l
RT: 3.36 min Scan# 319
Delta R.T. 0.02 min
Lab File: VD059507.D
Acq: 2 Jul 2018 17:06

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

Tot Ion: 96 Resp: 15797
Ion Ratio Lower Upper
96 100
61 161.6 154.7 232.1
98 62.4 49.9 74.9

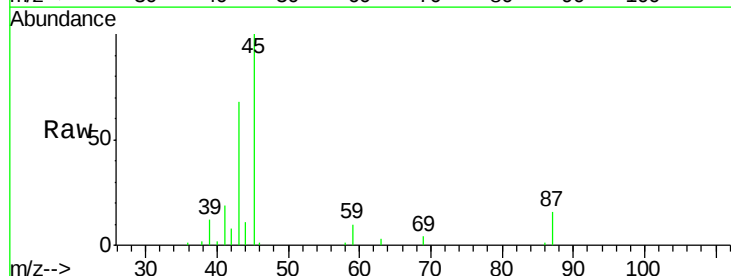


Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC

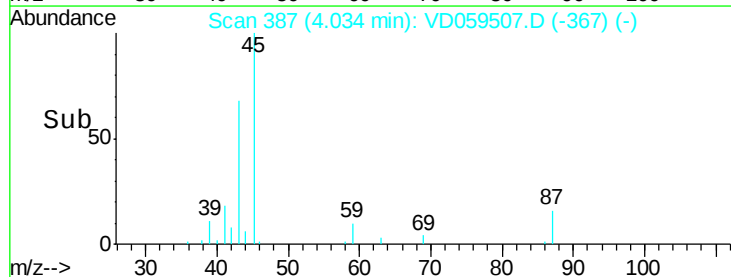
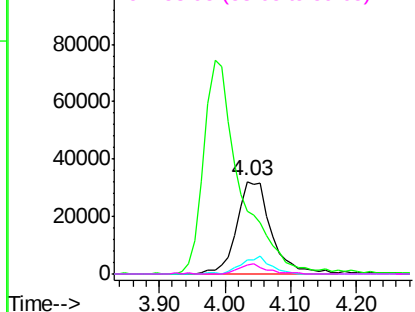


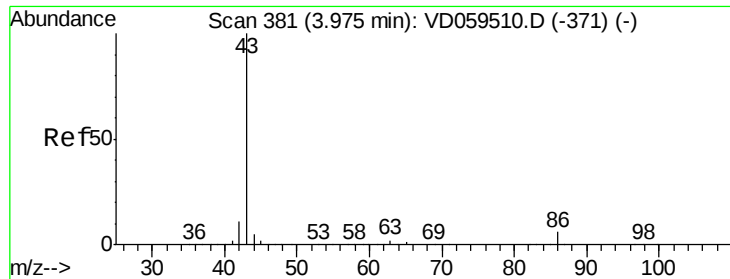
#22
Diisopropyl ether
Concen: 5.41 ug/l
RT: 4.03 min Scan# 387
Delta R.T. -0.00 min
Lab File: VD059507.D
Acq: 2 Jul 2018 17:06

Tgt Ion: 45 Resp: 118894
Ion Ratio Lower Upper
45 100
43 68.4 50.7 76.1
87 15.8 13.4 20.0
59 9.5 7.4 11.0



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





#23

Vinyl Acetate

Concen: 23.40 ug/l

RT: 3.98 min Scan# 382

Delta R.T. 0.01 min

Lab File: VD059507.D

Acq: 2 Jul 2018 17:06

Instrument :

MSVOA_D

ClientSampleId :

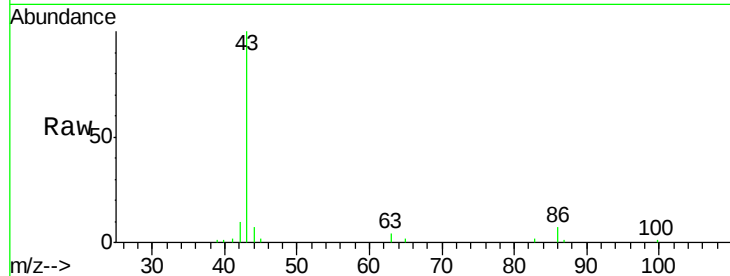
VSTDIC005

Tot Ion: 43 Resp: 282830

Ion Ratio Lower Upper

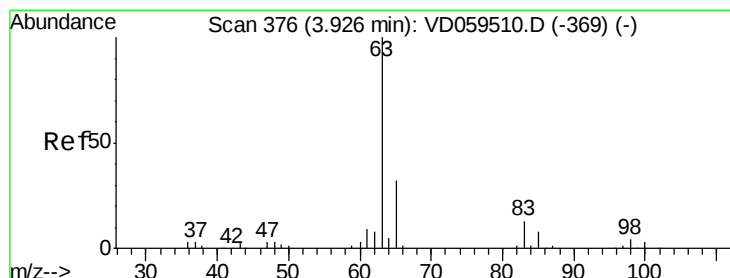
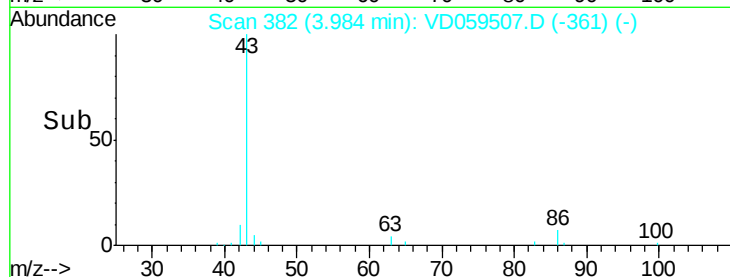
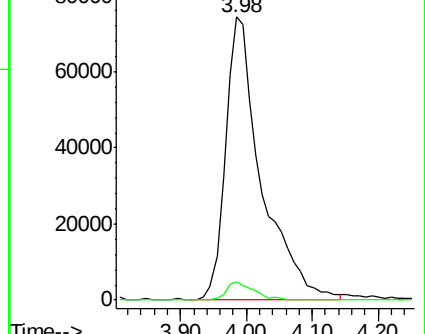
43 100

86 6.6 5.0 7.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 5.14 ug/l

RT: 3.95 min Scan# 378

Delta R.T. 0.02 min

Lab File: VD059507.D

Acq: 2 Jul 2018 17:06

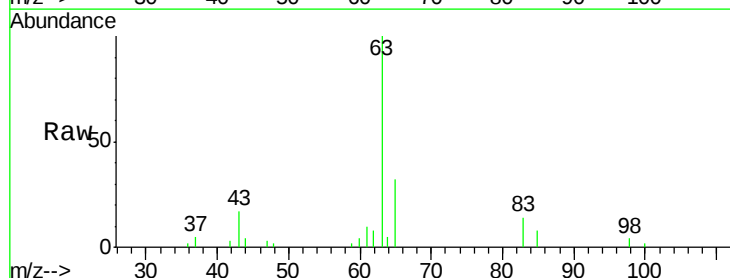
Tgt Ion: 63 Resp: 64817

Ion Ratio Lower Upper

63 100

98 3.7 2.0 5.8

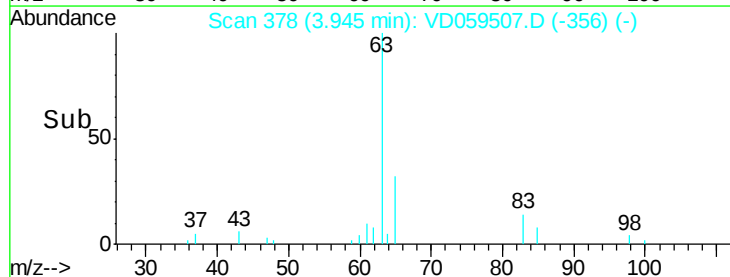
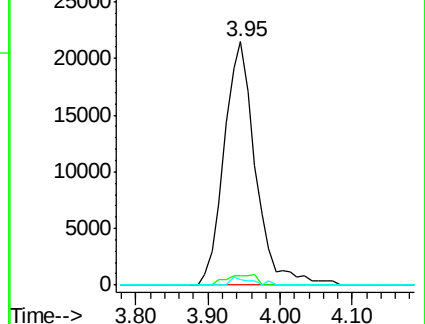
100 2.2 1.5 4.4

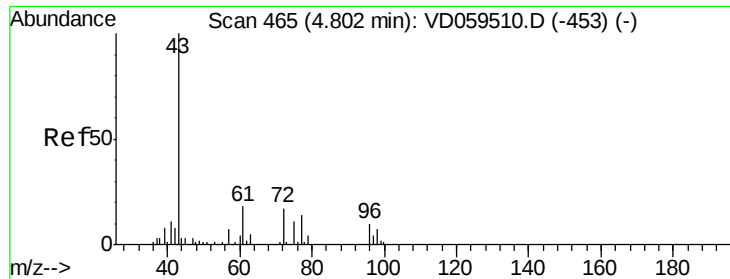


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 28.26 ug/l

RT: 4.81 min Scan# 466

Delta R.T. 0.01 min

Lab File: VD059507.D

Acq: 2 Jul 2018 17:06

Instrument :

MSVOA_D

ClientSampleId :

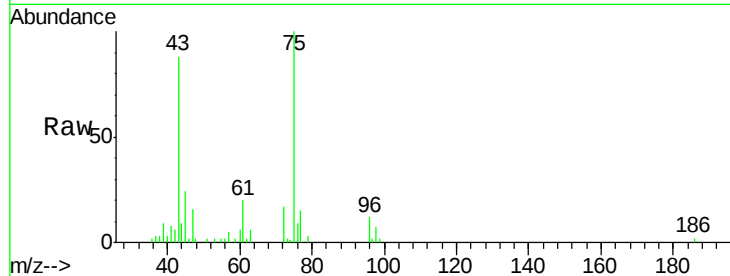
VSTDIC005

Tot Ion: 43 Resp: 60699

Ion Ratio Lower Upper

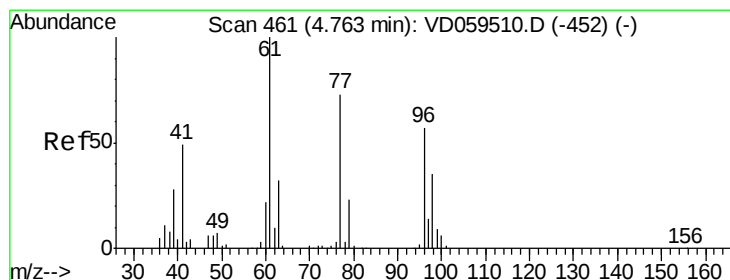
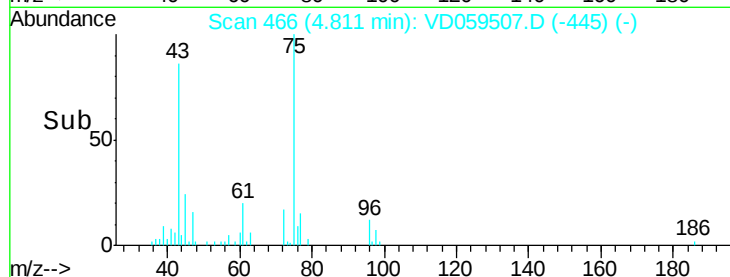
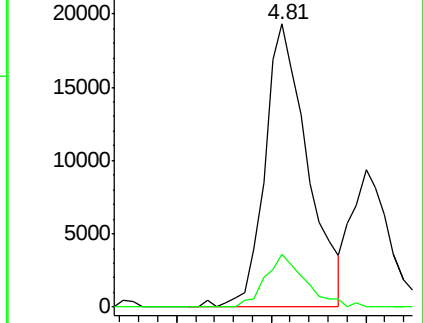
43 100

72 18.9 13.8 20.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 5.36 ug/l

RT: 4.77 min Scan# 462

Delta R.T. 0.01 min

Lab File: VD059507.D

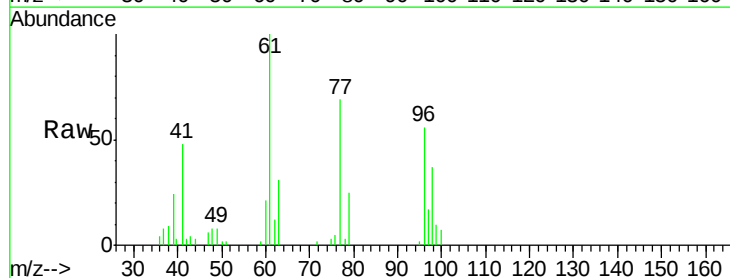
Acq: 2 Jul 2018 17:06

Tgt Ion: 77 Resp: 54698

Ion Ratio Lower Upper

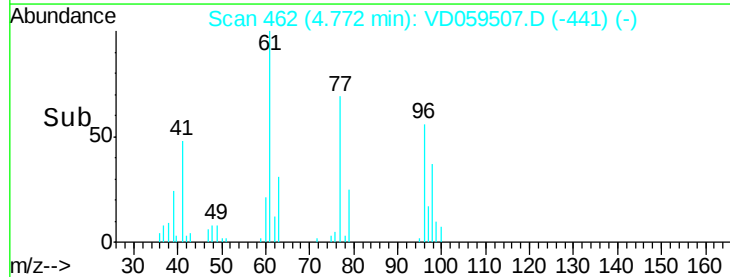
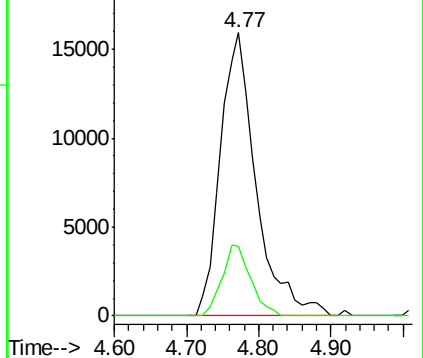
77 100

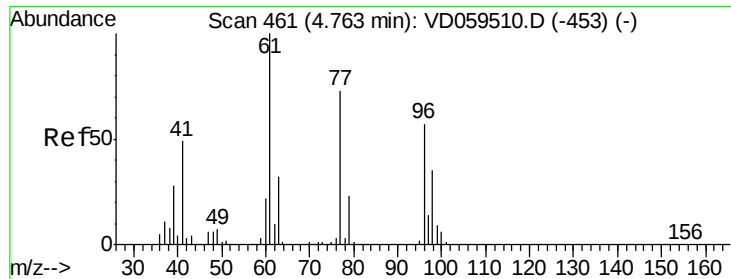
97 24.7 9.5 28.5



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#27

cis-1,2-Dichloroethene

Concen: 5.42 ug/l

RT: 4.77 min Scan# 462

Delta R.T. 0.01 min

Lab File: VD059507.D

Acq: 2 Jul 2018 17:06

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

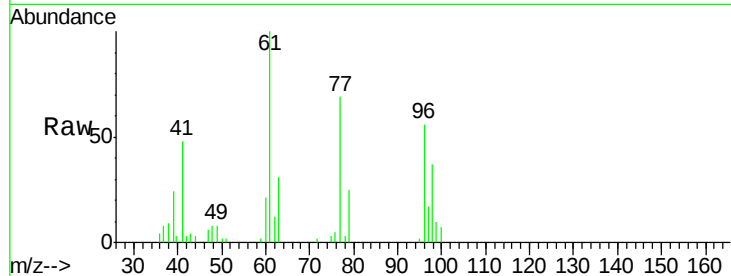
Tot Ion: 96 Resp: 36910

Ion Ratio Lower Upper

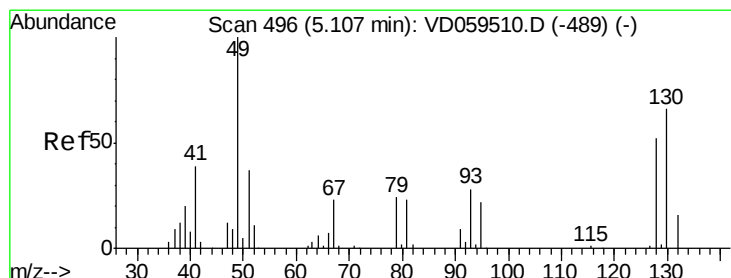
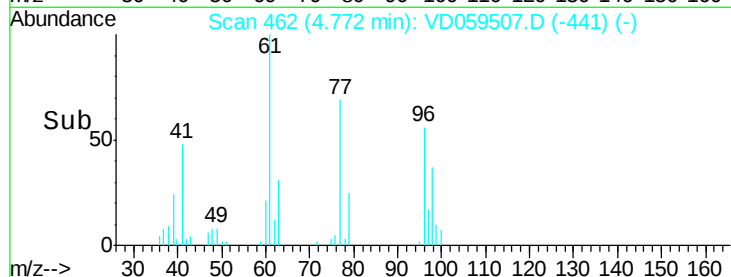
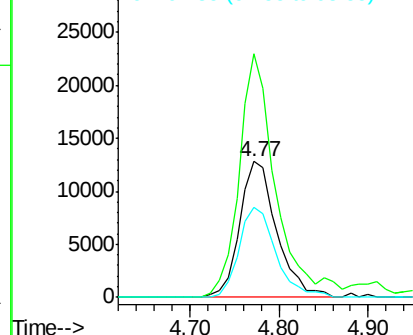
96 100

61 179.0 0.0 350.8

98 65.9 0.0 123.4



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: 5.21 ug/l

RT: 5.12 min Scan# 497

Delta R.T. 0.01 min

Lab File: VD059507.D

Acq: 2 Jul 2018 17:06

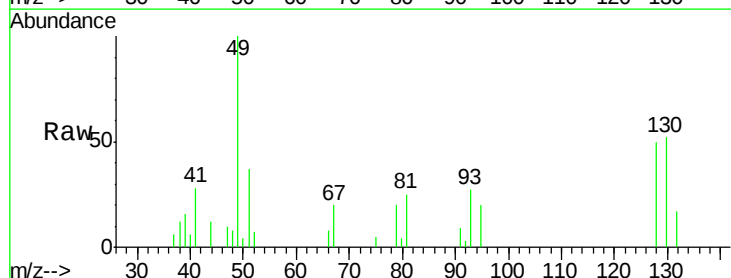
Tgt Ion: 49 Resp: 24856

Ion Ratio Lower Upper

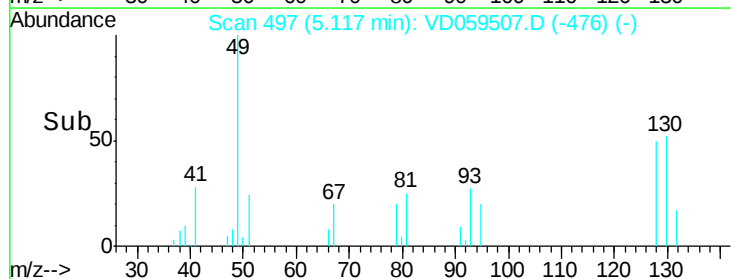
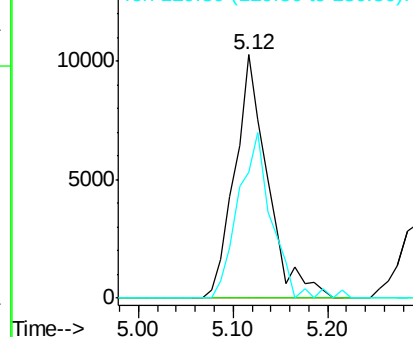
49 100

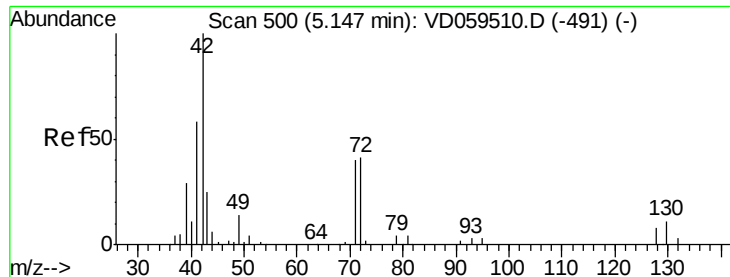
129 0.0 0.0 4.4

130 51.7 52.6 78.8#



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

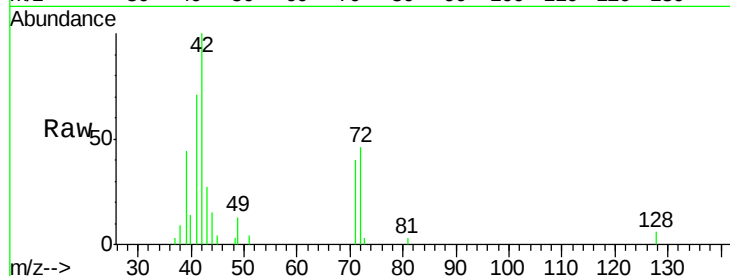




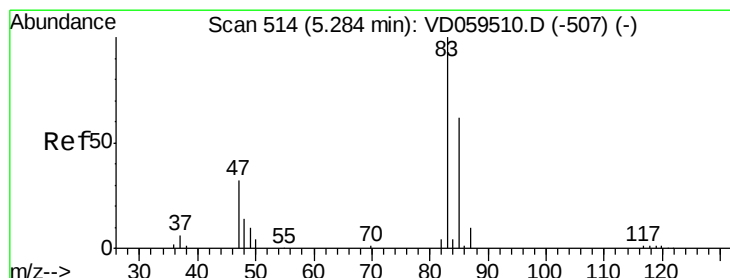
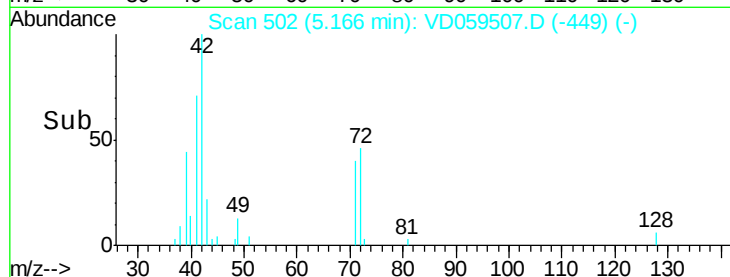
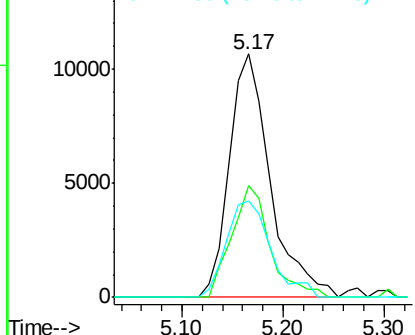
#29
Tetrahydrofuran
Concen: 27.37 ug/l
RT: 5.17 min Scan# 502
Delta R.T. 0.02 min
Lab File: VD059507.D
Acq: 2 Jul 2018 17:06

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.0	32.9	49.3
71	43.1	31.6	47.4

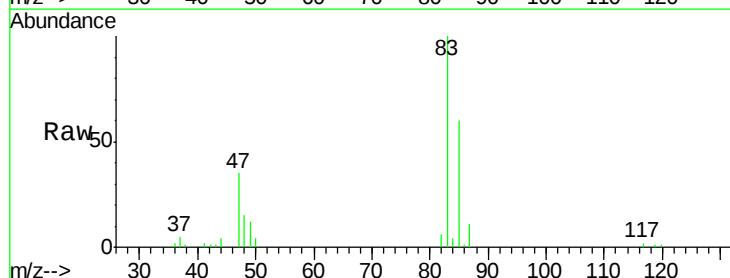


Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC

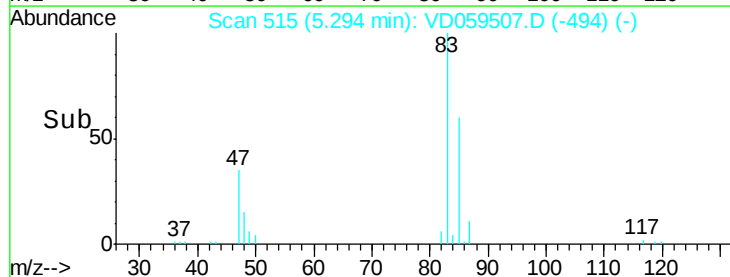
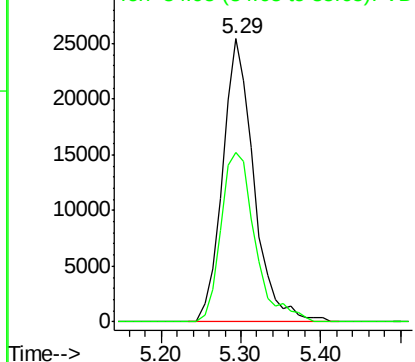


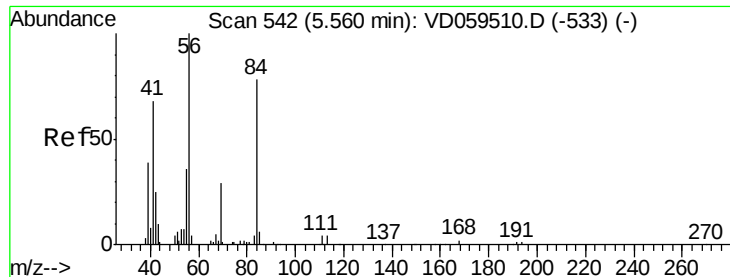
#30
Chloroform
Concen: 5.26 ug/l
RT: 5.29 min Scan# 515
Delta R.T. 0.01 min
Lab File: VD059507.D
Acq: 2 Jul 2018 17:06

Tgt Ion	Ratio	Lower	Upper
83	100		
85	59.9	49.8	74.6



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





#31

Cyclohexane

Concen: 6.90 ug/l

RT: 5.56 min Scan# 542

Delta R.T. -0.00 min

Lab File: VD059507.D

Acq: 2 Jul 2018 17:06

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

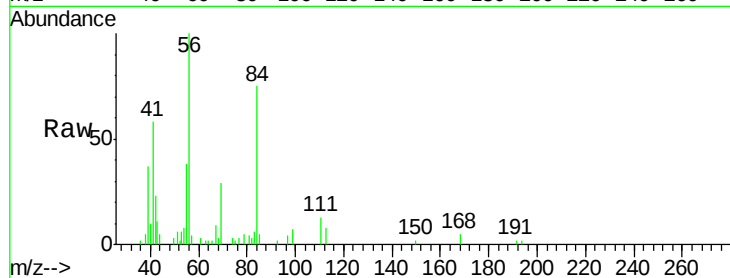
Tot Ion: 56 Resp: 65912

Ion Ratio Lower Upper

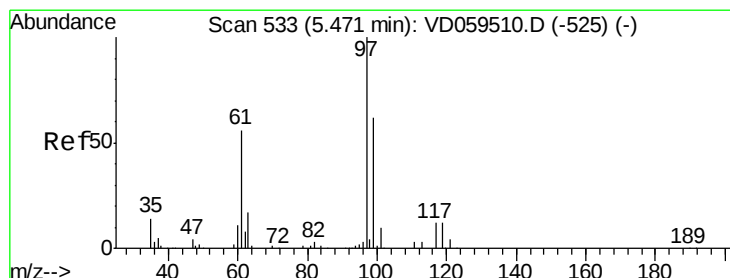
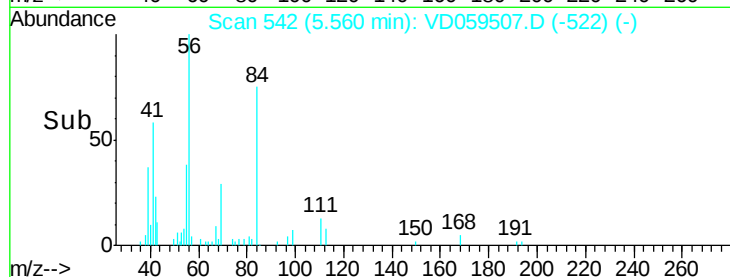
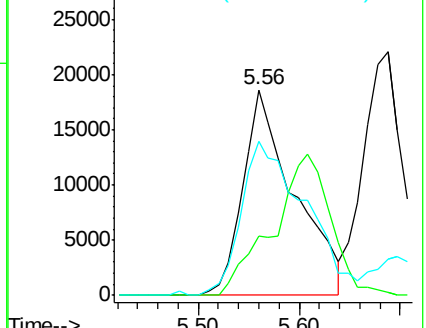
56 100

69 28.8 22.9 34.3

84 75.0 63.4 95.0



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: 5.06 ug/l

RT: 5.48 min Scan# 534

Delta R.T. 0.01 min

Lab File: VD059507.D

Acq: 2 Jul 2018 17:06

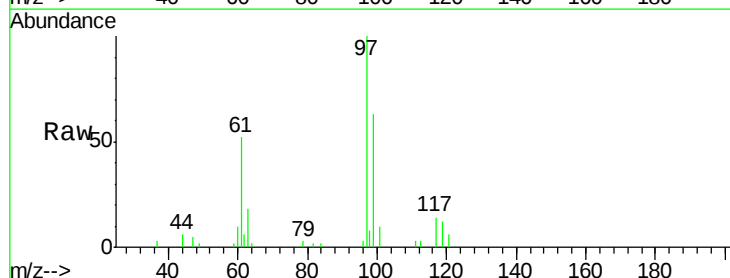
Tgt Ion: 97 Resp: 53635

Ion Ratio Lower Upper

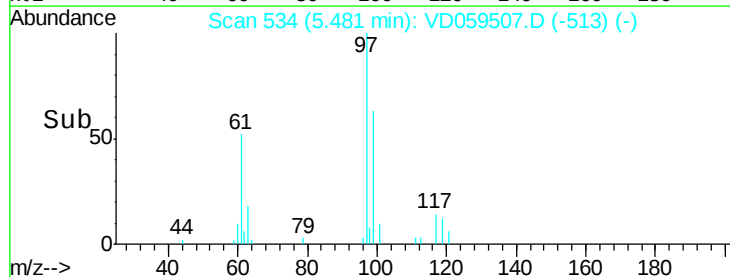
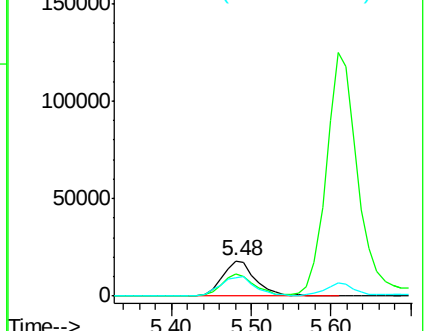
97 100

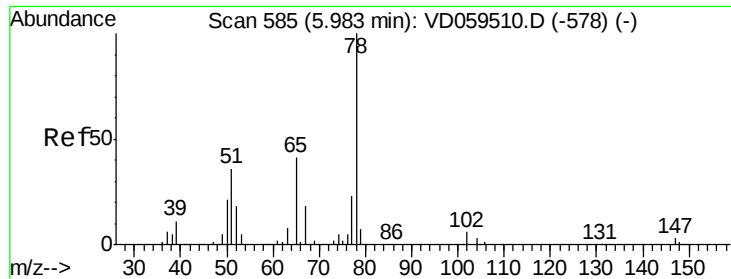
99 63.5 49.6 74.4

61 51.5 44.8 67.2



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

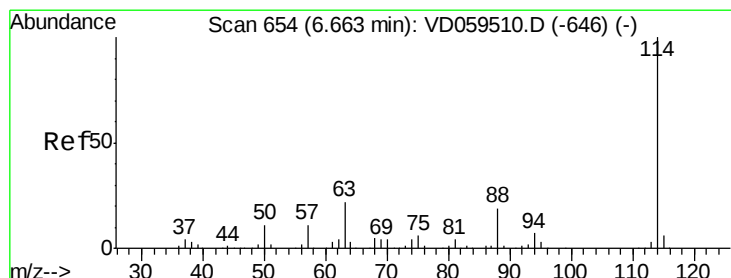
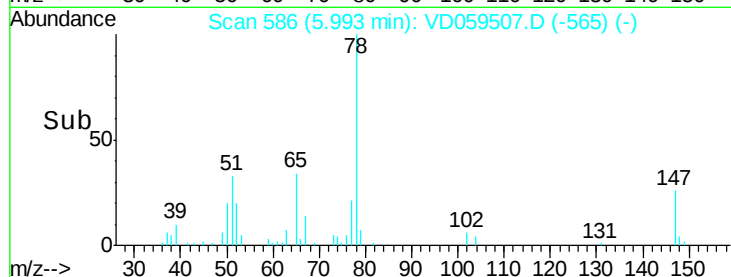
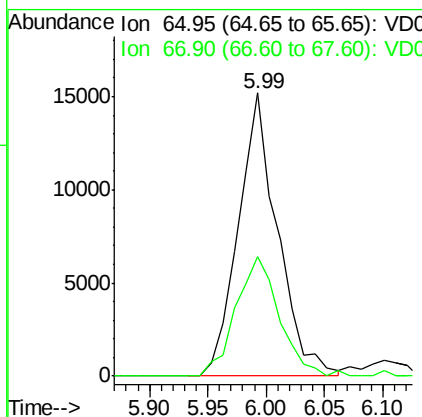
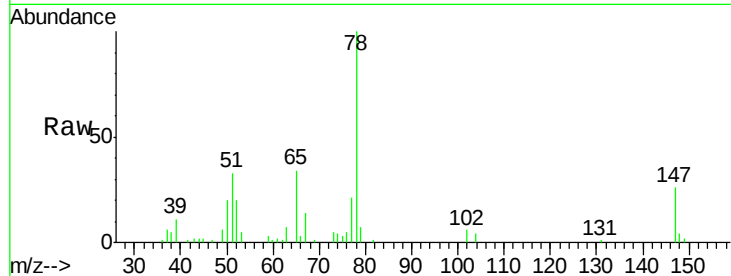




#33
 1,2-Dichloroethane-d4
 Concen: 5.06 ug/l
 RT: 5.99 min Scan# 586
 Delta R.T. 0.01 min
 Lab File: VD059507.D
 Acq: 2 Jul 2018 17:06

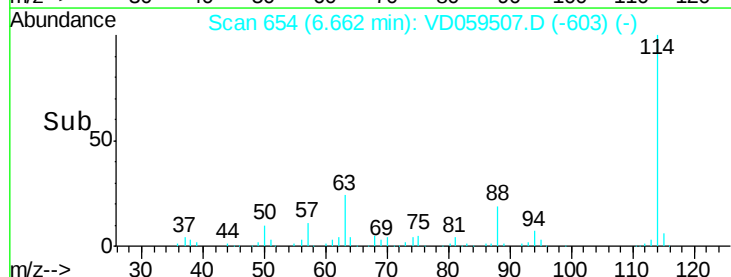
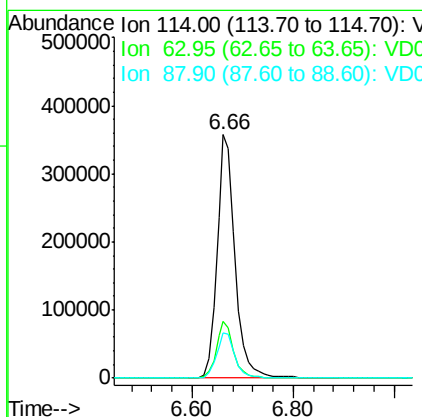
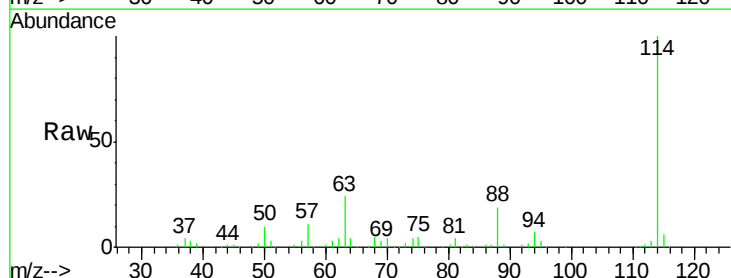
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC005

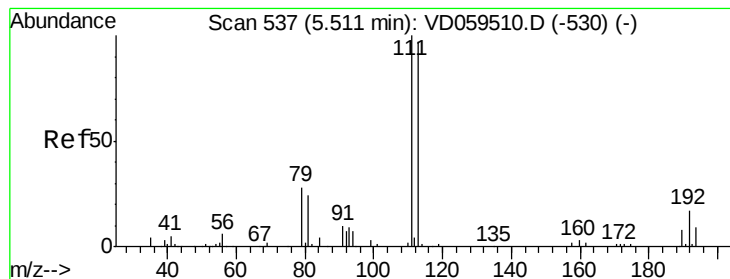
Tot Ion: 65 Resp: 35485
 Ion Ratio Lower Upper
 65 100
 67 42.0 0.0 90.2



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.66 min Scan# 654
 Delta R.T. -0.00 min
 Lab File: VD059507.D
 Acq: 2 Jul 2018 17:06

Tgt Ion: 114 Resp: 890660
 Ion Ratio Lower Upper
 114 100
 63 23.5 0.0 44.4
 88 18.7 0.0 37.8





#35

Dibromofluoromethane

Concen: 50.00 ug/l

RT: 5.52 min Scan# 538

Delta R.T. 0.01 min

Lab File: VD059507.D

Acq: 2 Jul 2018 17:06

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

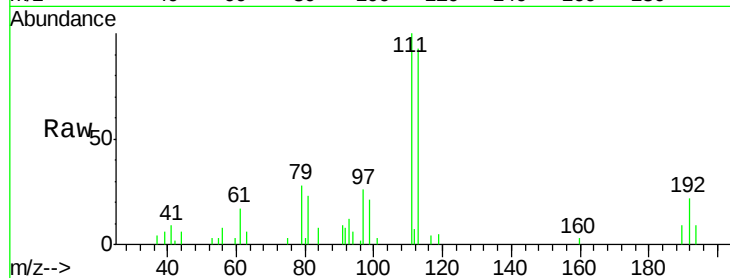
Tot Ion:113 Resp: 33862

Ion Ratio Lower Upper

113 100

111 107.6 82.7 124.1

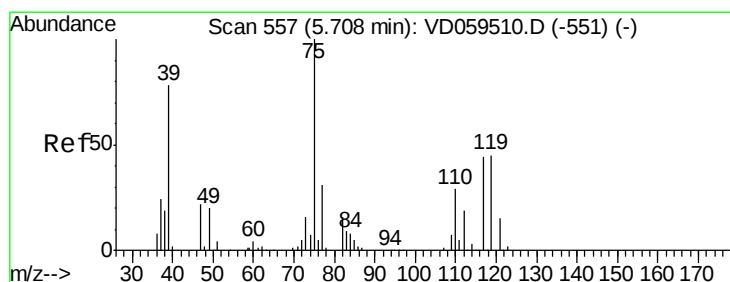
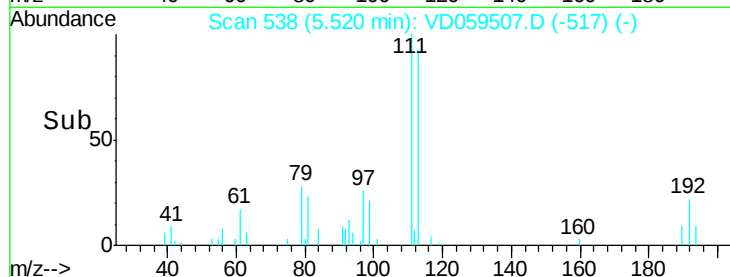
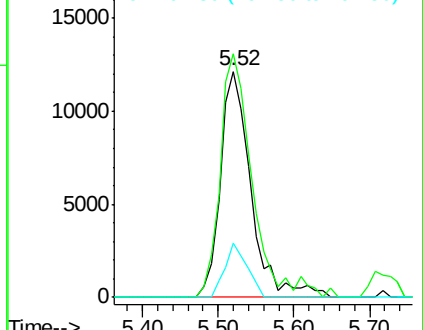
192 23.9 14.2 21.2#



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 5.81 ug/l

RT: 5.72 min Scan# 558

Delta R.T. 0.01 min

Lab File: VD059507.D

Acq: 2 Jul 2018 17:06

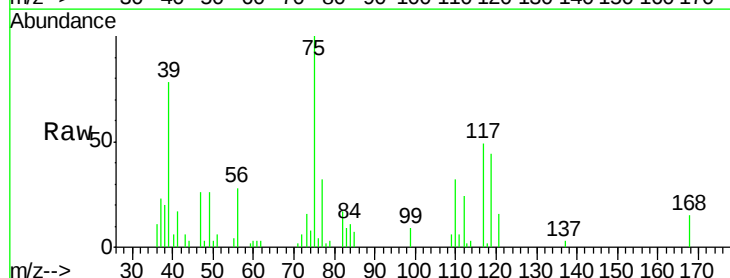
Tgt Ion: 75 Resp: 54528

Ion Ratio Lower Upper

75 100

110 32.5 14.4 43.4

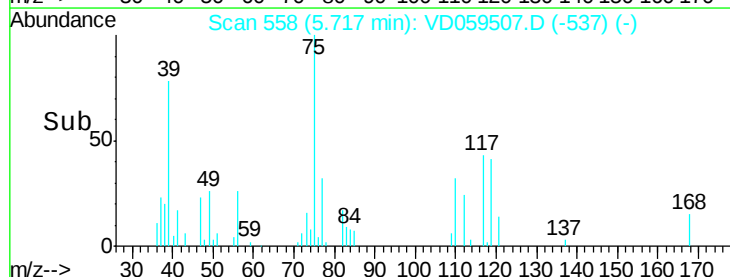
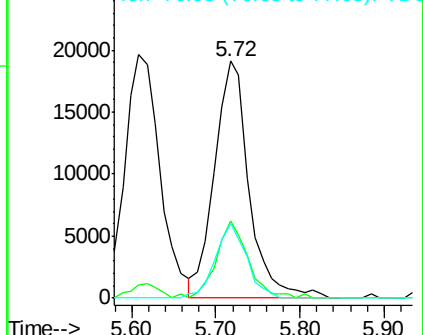
77 31.6 25.0 37.6

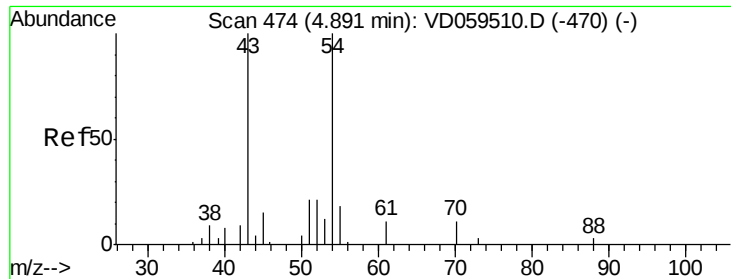


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): VDC

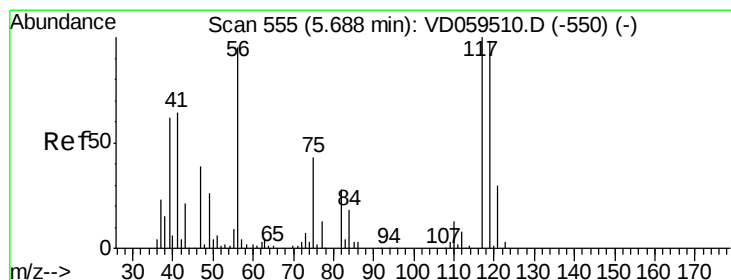
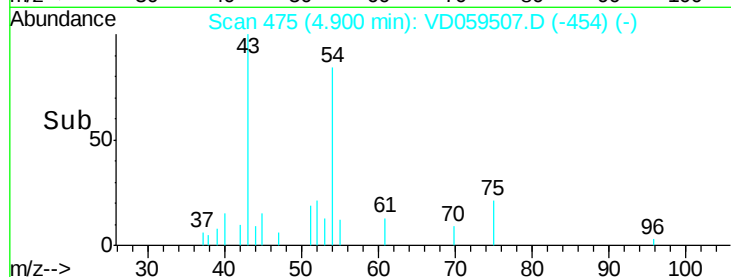
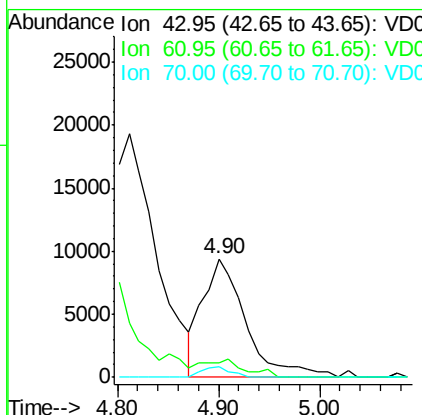
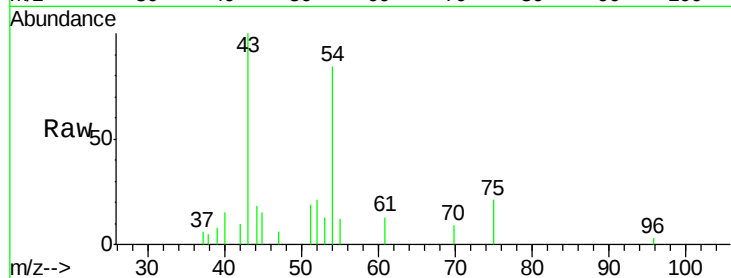




#37
Ethyl Acetate
Concen: 5.30 ug/l
RT: 4.90 min Scan# 475
Delta R.T. 0.01 min
Lab File: VD059507.D
Acq: 2 Jul 2018 17:06

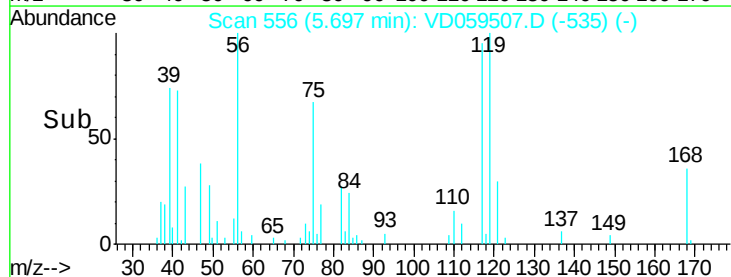
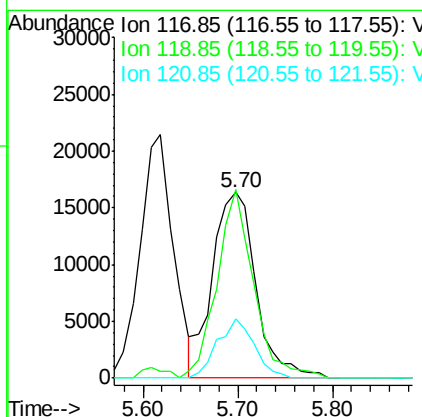
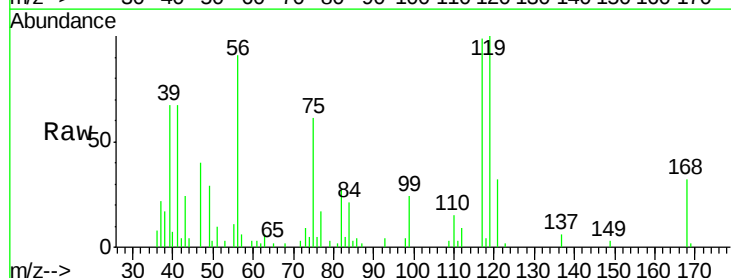
Instrument :
MSVOA_D
ClientSampleID :
VSTDIC005

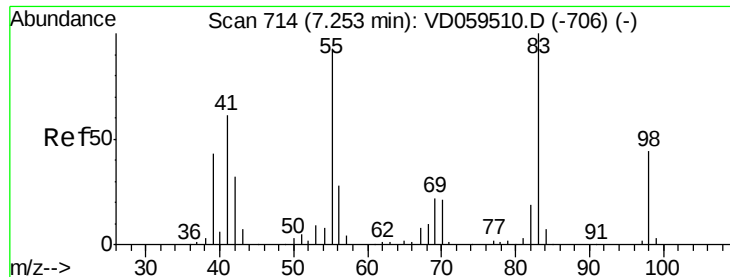
Tot Ion: 43 Resp: 27971
Ion Ratio Lower Upper
43 100
61 12.7 11.5 17.3
70 8.5 6.8 10.2



#38
Carbon Tetrachloride
Concen: 5.71 ug/l
RT: 5.70 min Scan# 556
Delta R.T. 0.01 min
Lab File: VD059507.D
Acq: 2 Jul 2018 17:06

Tgt Ion: 117 Resp: 52162
Ion Ratio Lower Upper
117 100
119 101.1 76.4 114.6
121 32.1 23.9 35.9

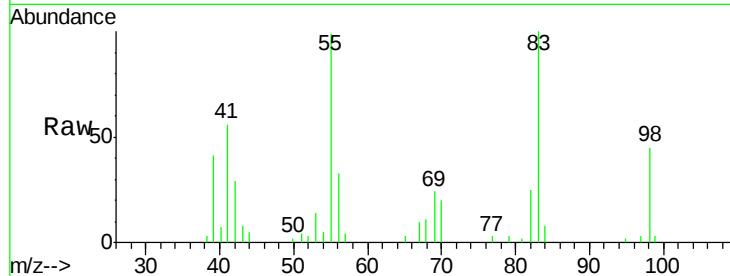




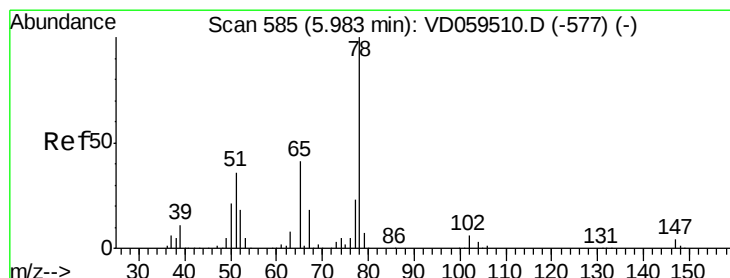
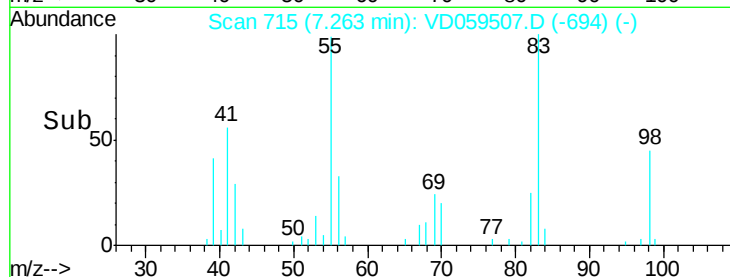
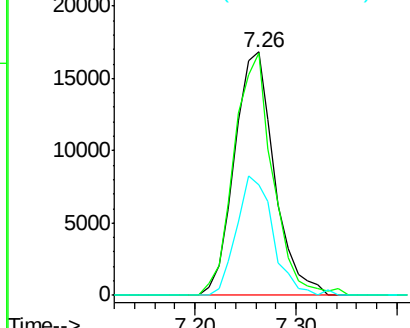
#39
Methvlcvclohexane
Concen: 5.34 ug/l
RT: 7.26 min Scan# 715
Delta R.T. 0.01 min
Lab File: VD059507.D
Acq: 2 Jul 2018 17:06

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

Tot Ion: 83 Resp: 46392
Ion Ratio Lower Upper
83 100
55 99.4 74.2 111.4
98 45.4 35.5 53.3

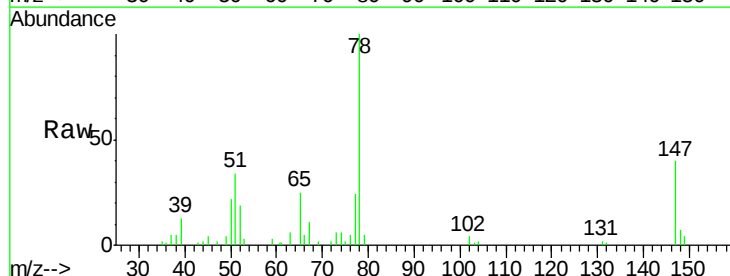


Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC

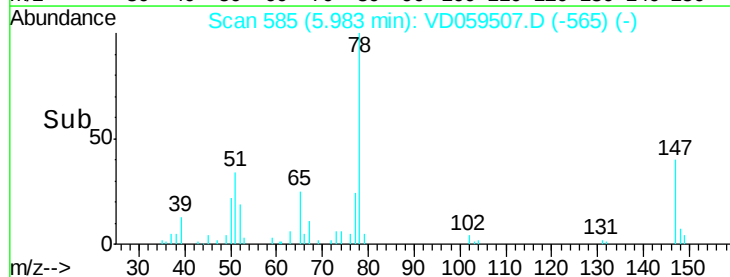
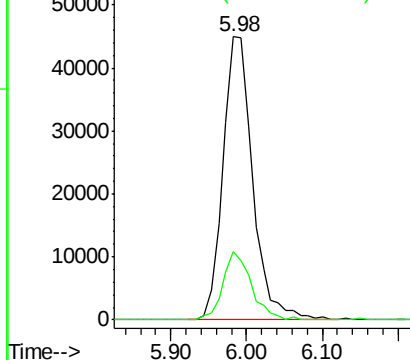


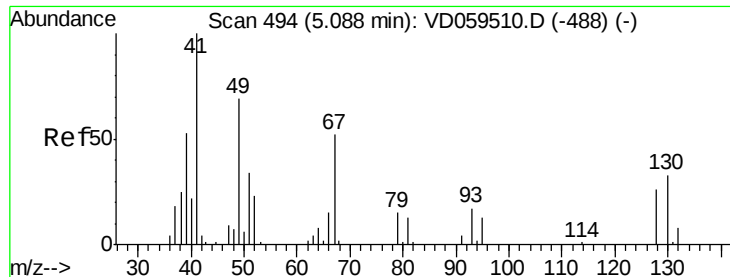
#40
Benzene
Concen: 5.63 ug/l
RT: 5.98 min Scan# 585
Delta R.T. -0.00 min
Lab File: VD059507.D
Acq: 2 Jul 2018 17:06

Tgt Ion: 78 Resp: 121757
Ion Ratio Lower Upper
78 100
77 24.1 18.6 27.8



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





#41

Methacrylonitrile

Concen: 5.55 ug/l

RT: 5.10 min Scan# 495

Delta R.T. 0.01 min

Lab File: VD059507.D

Acq: 2 Jul 2018 17:06

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

Tot Ion: 41 Resp: 14606

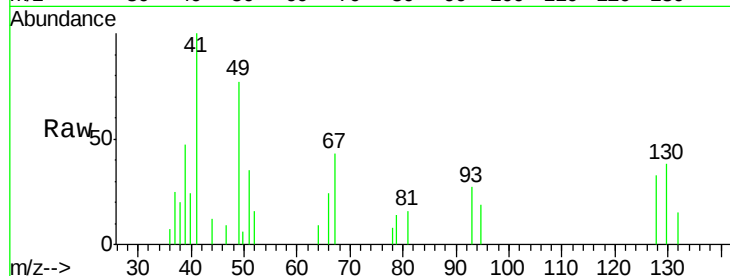
Ion Ratio Lower Upper

41 100

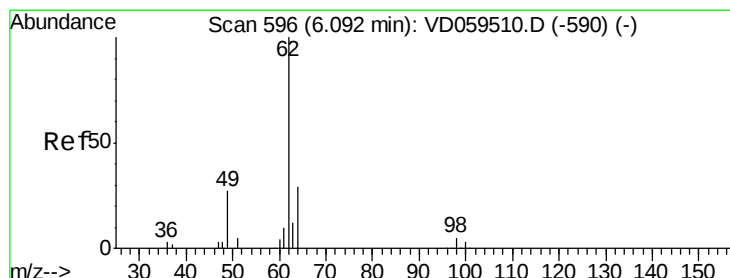
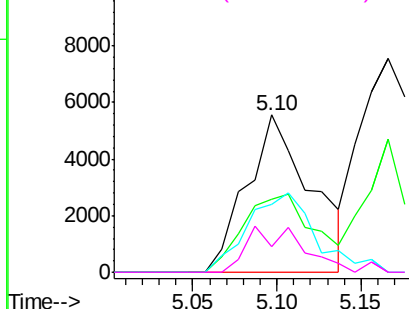
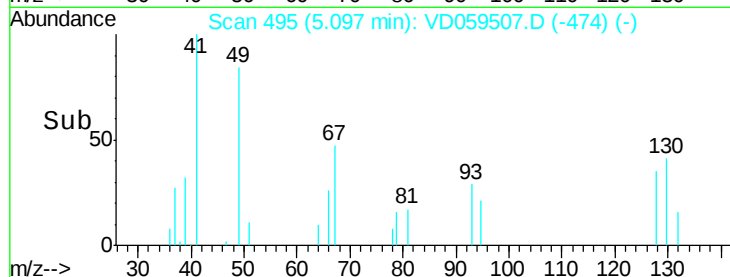
39 46.9 43.0 64.4

67 43.4 41.4 62.2

52 16.3 18.6 28.0#



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



#42

1,2-Dichloroethane

Concen: 5.17 ug/l

RT: 6.10 min Scan# 597

Delta R.T. 0.01 min

Lab File: VD059507.D

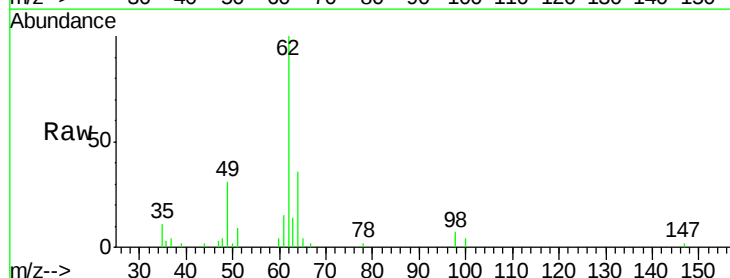
Acq: 2 Jul 2018 17:06

Tgt Ion: 62 Resp: 49916

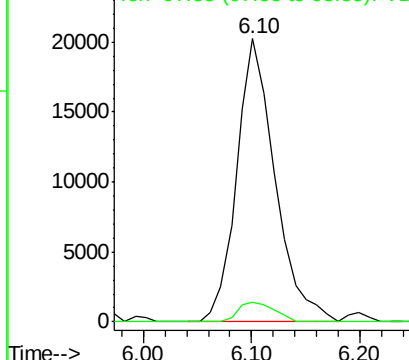
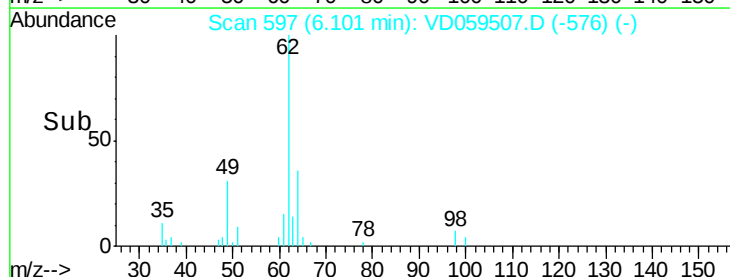
Ion Ratio Lower Upper

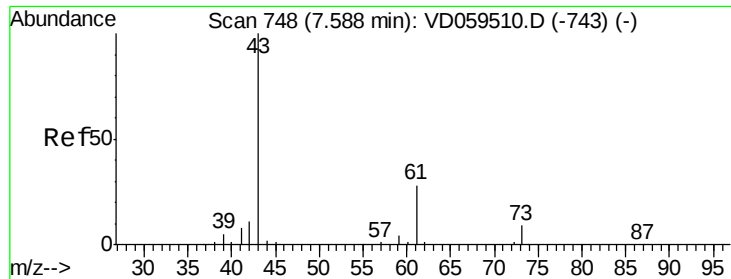
62 100

98 6.9 0.0 10.0



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





#43

Isopropyl Acetate

Concen: 5.04 ug/l

RT: 7.60 min Scan# 749

Delta R.T. 0.01 min

Lab File: VD059507.D

Acq: 2 Jul 2018 17:06

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

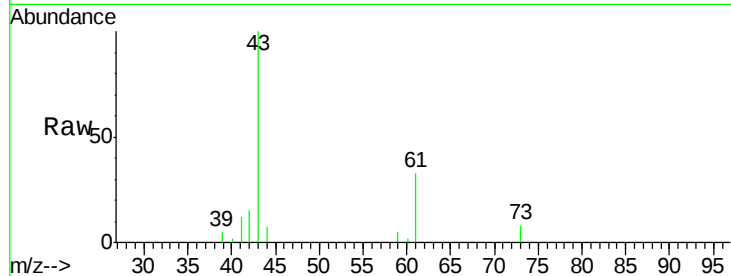
Tot Ion: 43 Resp: 34737

Ion Ratio Lower Upper

43 100

61 33.1 22.3 33.5

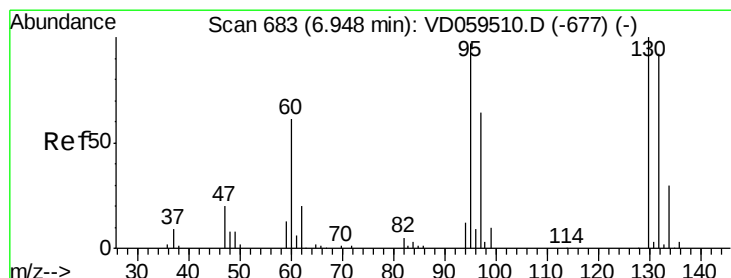
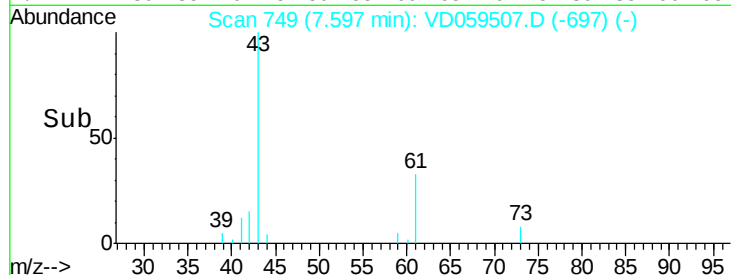
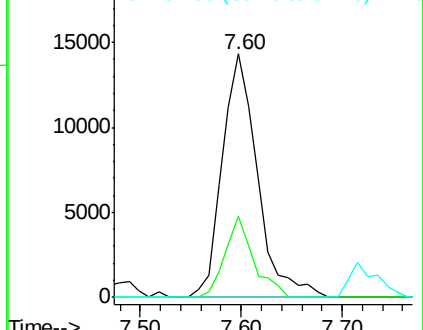
87 0.0 0.4 0.6#



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: 5.29 ug/l

RT: 6.96 min Scan# 684

Delta R.T. 0.01 min

Lab File: VD059507.D

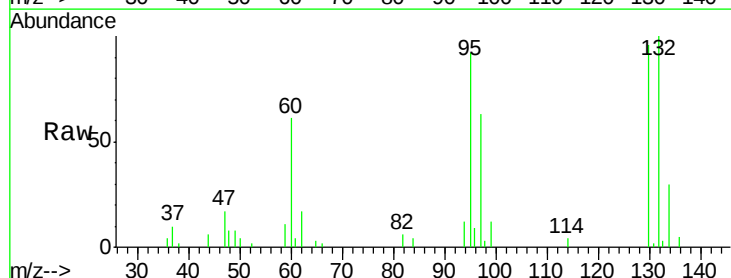
Acq: 2 Jul 2018 17:06

Tgt Ion: 130 Resp: 35781

Ion Ratio Lower Upper

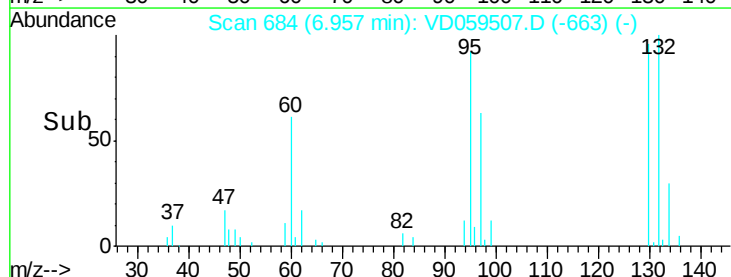
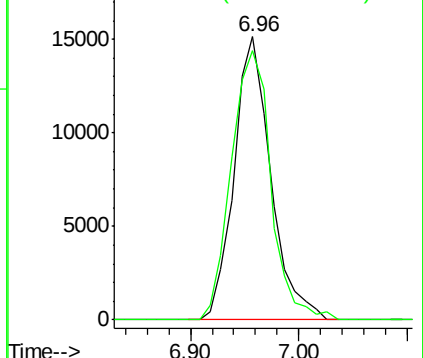
130 100

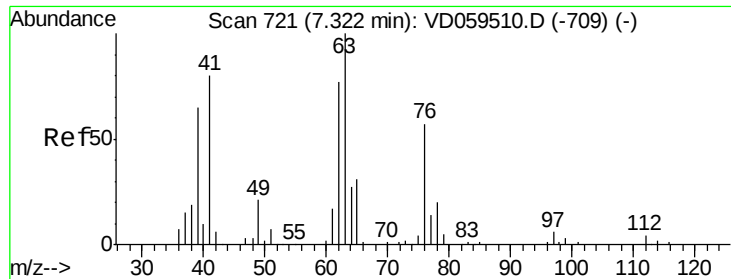
95 95.4 0.0 193.6



Abundance Ion 129.80 (129.50 to 130.50): VDC

Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 5.86 ug/l

RT: 7.32 min Scan# 721

Delta R.T. -0.00 min

Lab File: VD059507.D

Acq: 2 Jul 2018 17:06

Instrument :

MSVOA_D

ClientSampleId :

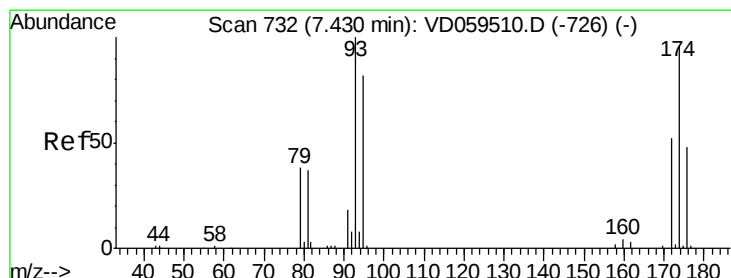
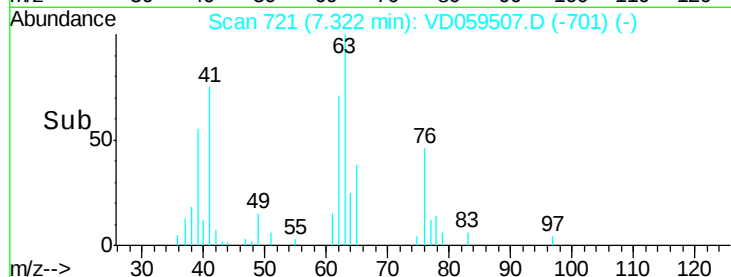
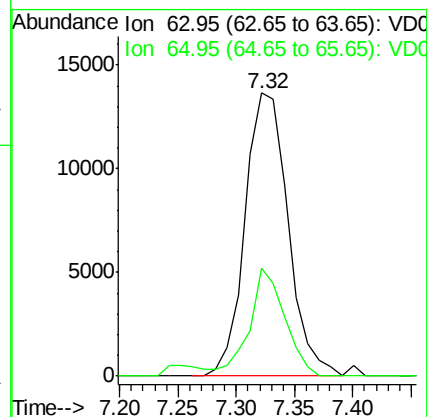
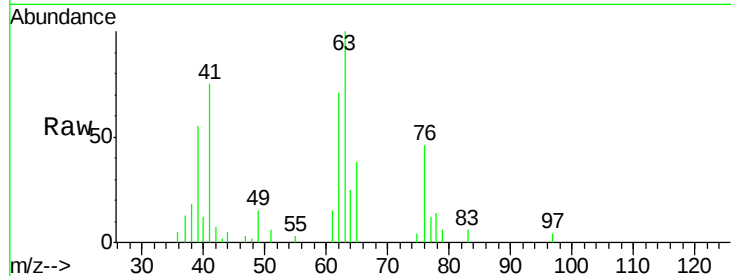
VSTDIC005

Tot Ion: 63 Resp: 34938

Ion Ratio Lower Upper

63 100

65 38.4 24.4 36.6#



#46

Dibromomethane

Concen: 5.06 ug/l

RT: 7.43 min Scan# 732

Delta R.T. -0.00 min

Lab File: VD059507.D

Acq: 2 Jul 2018 17:06

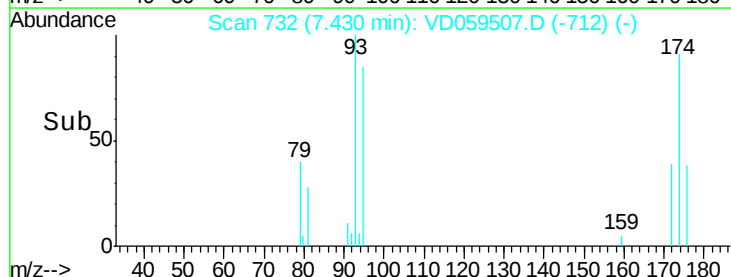
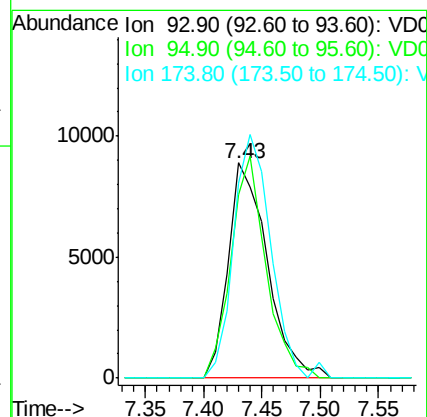
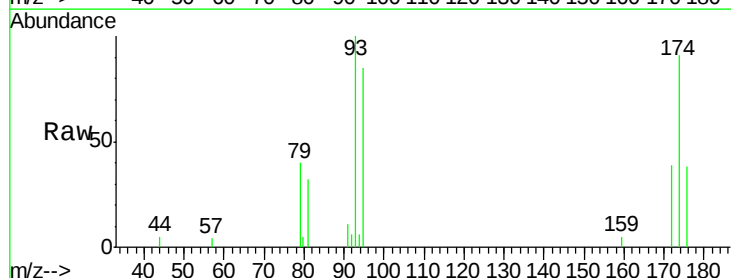
Tgt Ion: 93 Resp: 20793

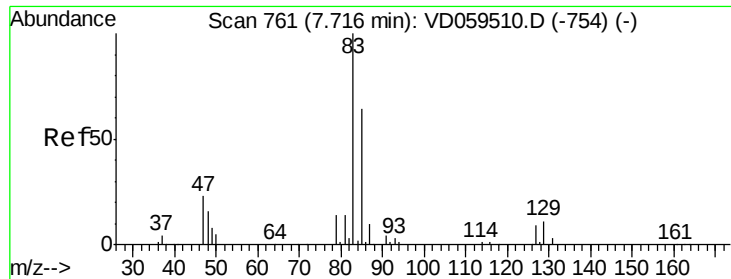
Ion Ratio Lower Upper

93 100

95 85.1 65.7 98.5

174 90.6 77.2 115.8





#47

Bromodichloromethane

Concen: 4.98 ug/l

RT: 7.72 min Scan# 761

Delta R.T. -0.00 min

Lab File: VD059507.D

Acq: 2 Jul 2018 17:06

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

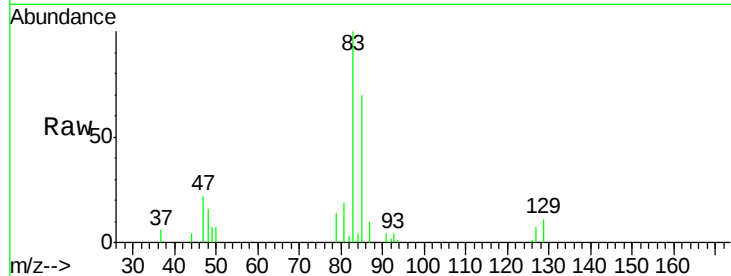
Tot Ion: 83 Resp: 47243

Ion Ratio Lower Upper

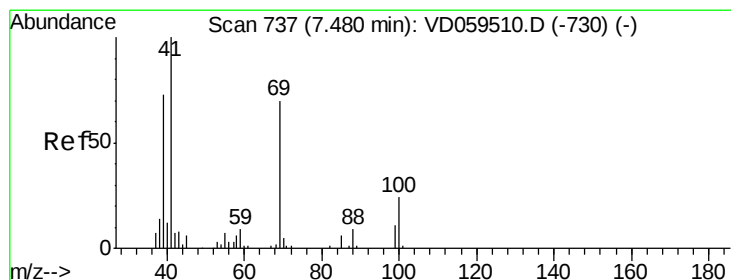
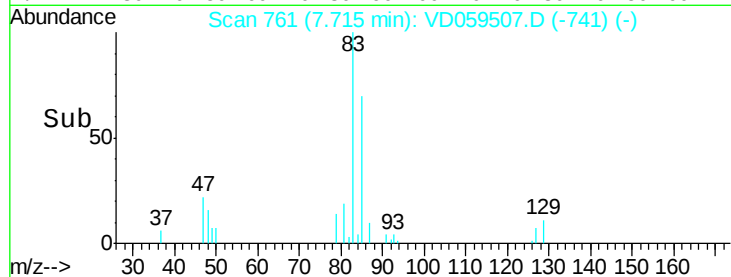
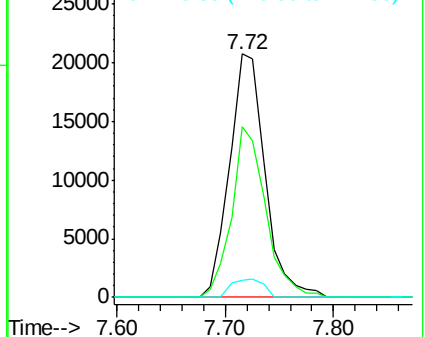
83 100

85 70.0 51.0 76.4

127 7.0 7.0 10.6



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



#48

Methyl methacrylate

Concen: 5.07 ug/l

RT: 7.48 min Scan# 737

Delta R.T. -0.00 min

Lab File: VD059507.D

Acq: 2 Jul 2018 17:06

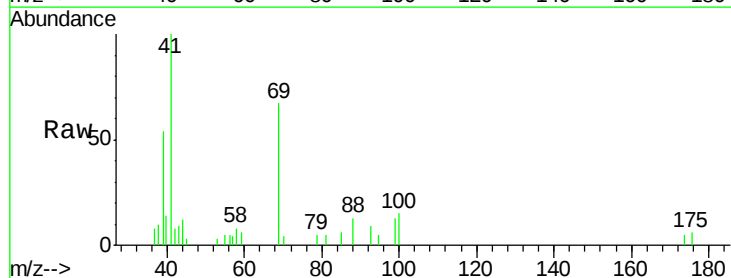
Tgt Ion: 41 Resp: 21585

Ion Ratio Lower Upper

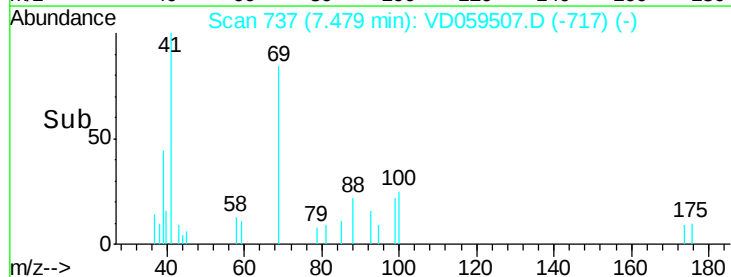
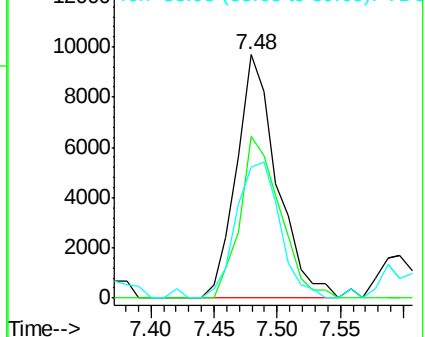
41 100

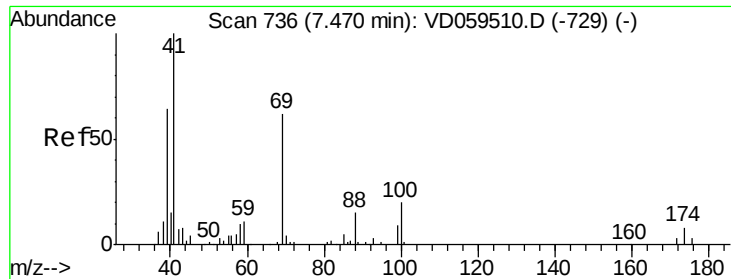
69 66.5 55.8 83.8

39 53.9 58.7 88.1#



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: 92.18 ug/l

RT: 7.47 min Scan# 736

Delta R.T. -0.00 min

Lab File: VD059507.D

Acq: 2 Jul 2018 17:06

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

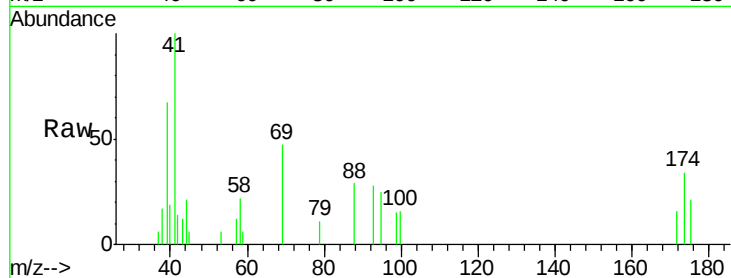
Tot Ion: 88 Resp: 3762

Ion Ratio Lower Upper

88 100

43 40.8 41.4 62.0#

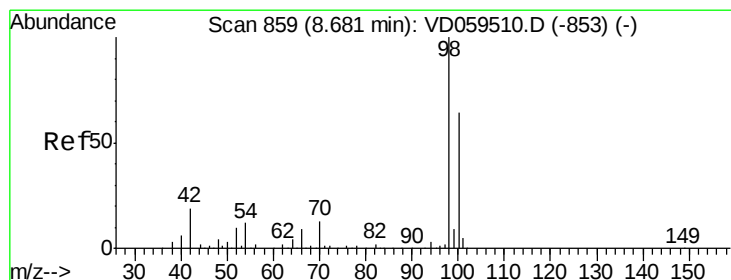
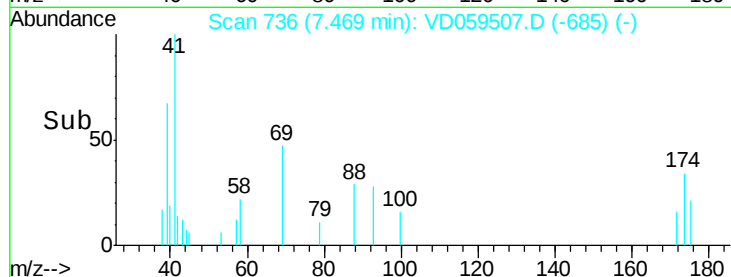
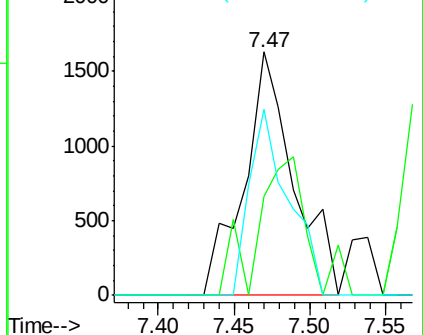
58 76.5 49.4 74.2#



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: 92.18 ug/l

RT: 8.69 min Scan# 860

Delta R.T. 0.01 min

Lab File: VD059507.D

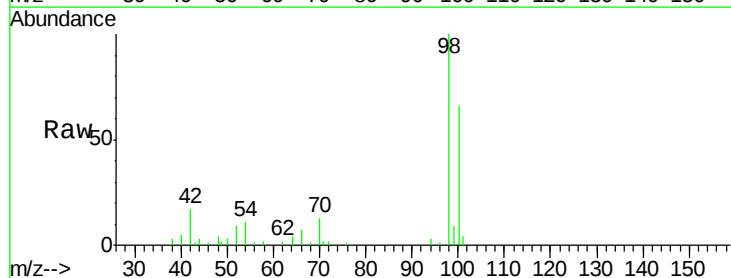
Acq: 2 Jul 2018 17:06

Tgt Ion: 98 Resp: 80488

Ion Ratio Lower Upper

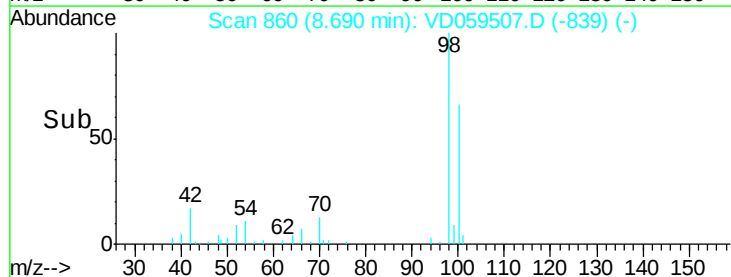
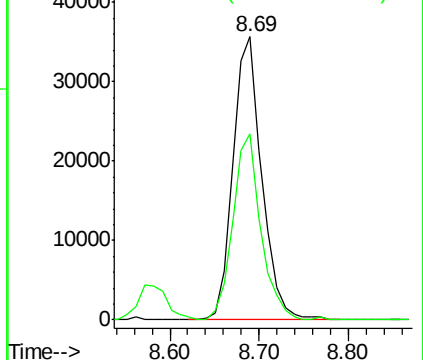
98 100

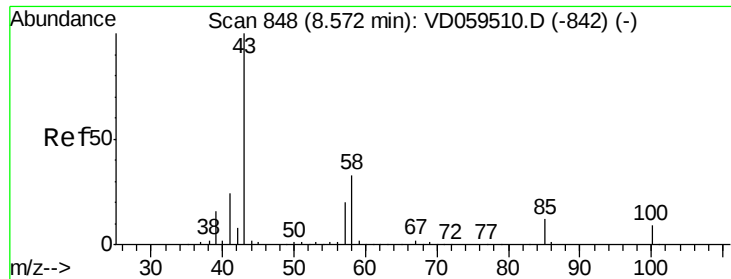
100 65.9 51.8 77.8



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC





#51

4-Methyl-2-Pentanone

Concen: 24.68 ug/l

RT: 8.57 min Scan# 848

Delta R.T. -0.00 min

Lab File: VD059507.D

Acq: 2 Jul 2018 17:06

Instrument :

MSVOA_D

ClientSampleId :

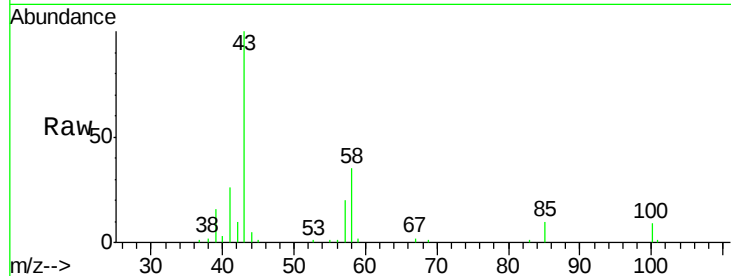
VSTDIC005

Tot Ion: 43 Resp: 112404

Ion Ratio Lower Upper

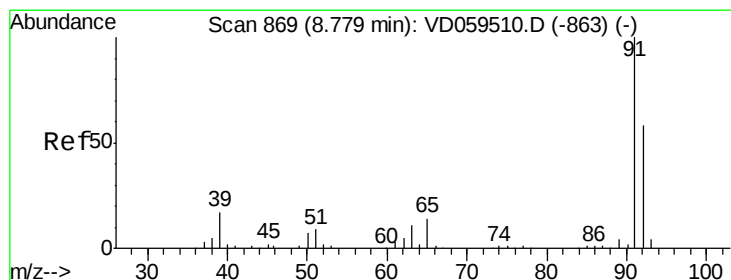
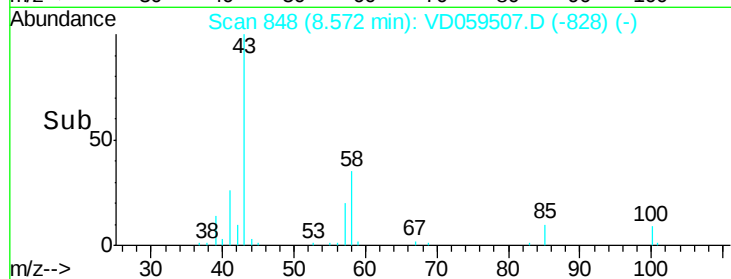
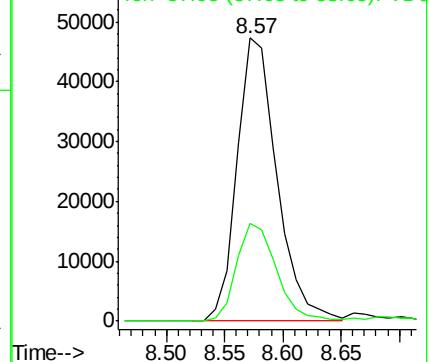
43 100

58 34.7 26.7 40.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 5.50 ug/l

RT: 8.78 min Scan# 869

Delta R.T. -0.00 min

Lab File: VD059507.D

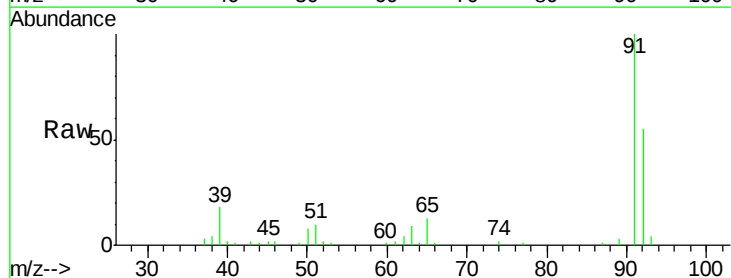
Acq: 2 Jul 2018 17:06

Tgt Ion: 92 Resp: 66648

Ion Ratio Lower Upper

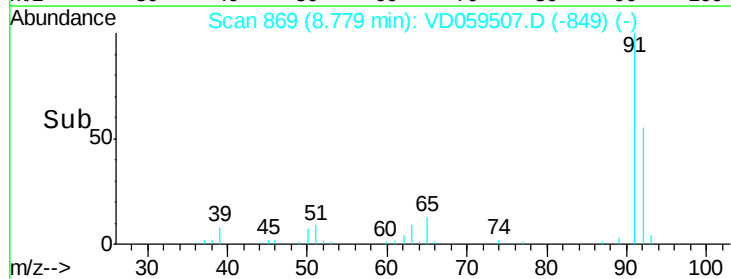
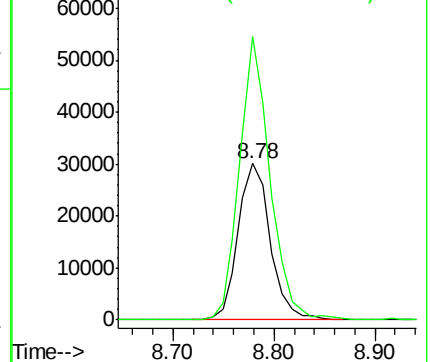
92 100

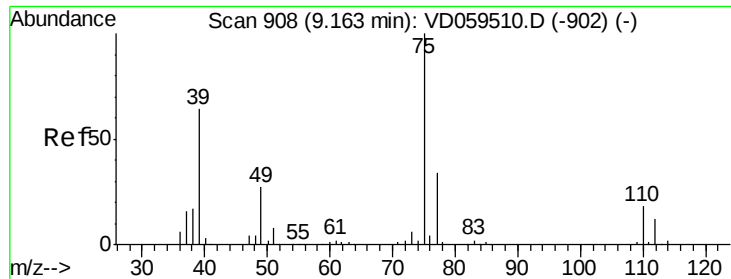
91 181.3 138.8 208.2



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

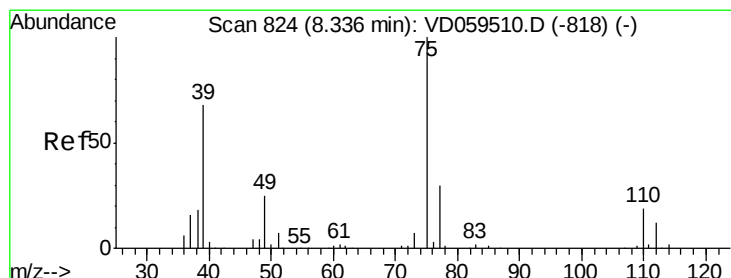
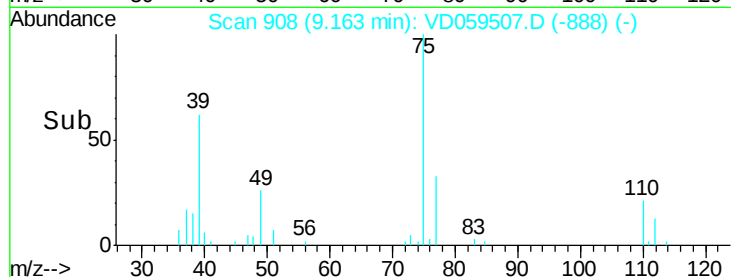
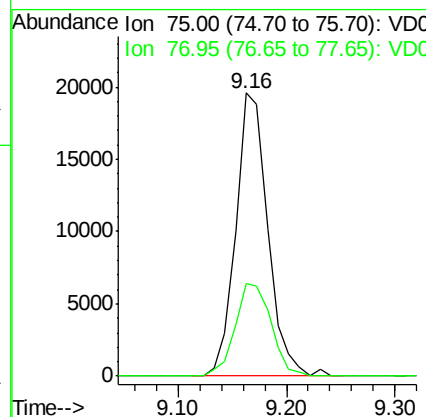
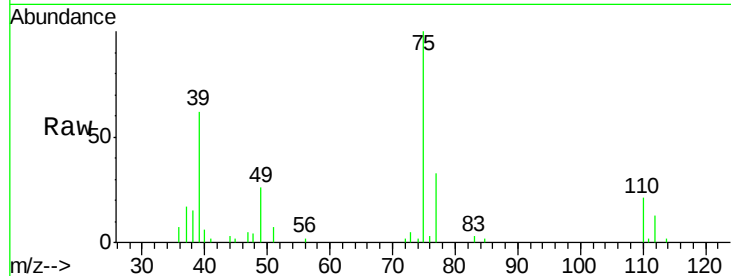




#53
 t-1,3-Dichloropropene
 Concen: 4.88 ug/l
 RT: 9.16 min Scan# 908
 Delta R.T. -0.00 min
 Lab File: VD059507.D
 Acq: 2 Jul 2018 17:06

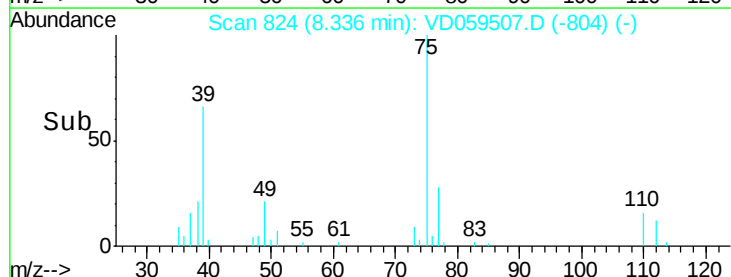
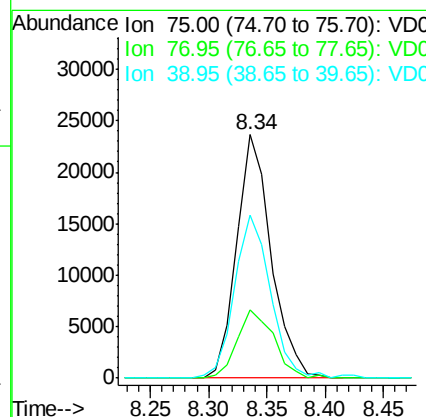
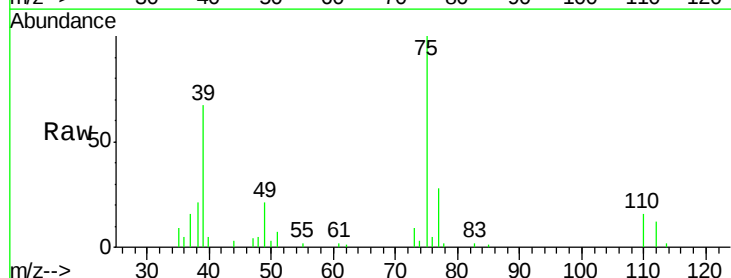
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC005

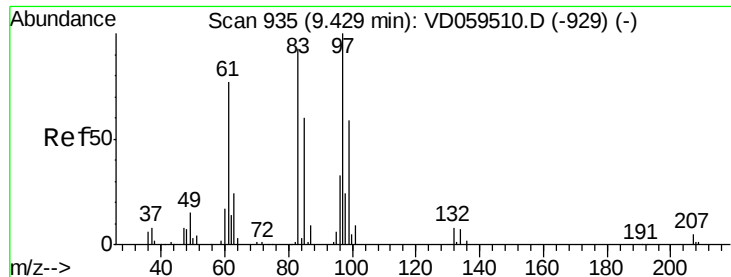
Tot Ion: 75 Resp: 40344
 Ion Ratio Lower Upper
 75 100
 77 32.7 26.9 40.3



#54
 cis-1,3-Dichloropropene
 Concen: 5.10 ug/l
 RT: 8.34 min Scan# 824
 Delta R.T. -0.00 min
 Lab File: VD059507.D
 Acq: 2 Jul 2018 17:06

Tgt Ion: 75 Resp: 48677
 Ion Ratio Lower Upper
 75 100
 77 28.3 24.4 36.6
 39 67.1 54.7 82.1

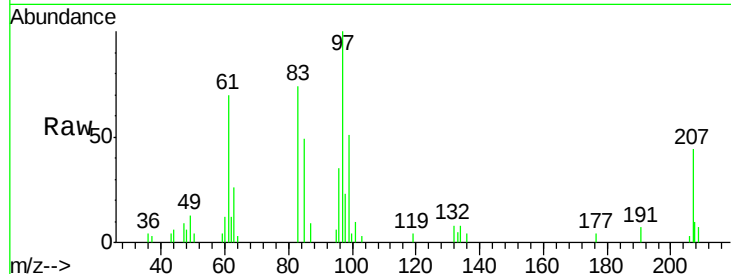




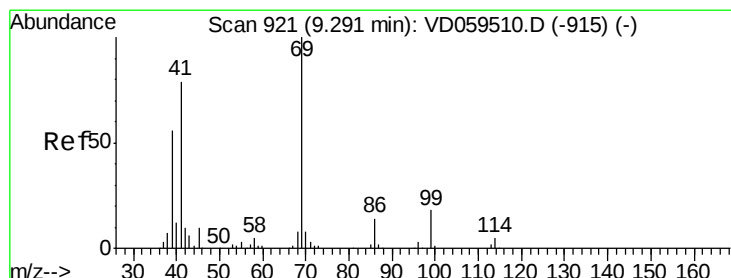
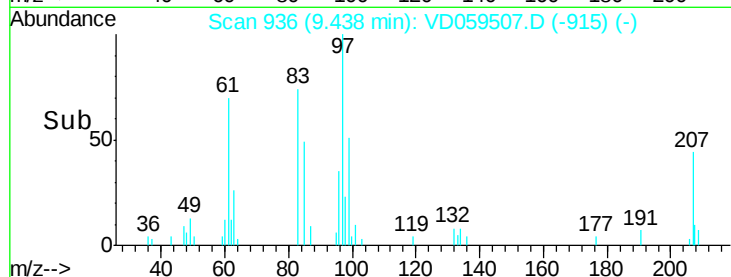
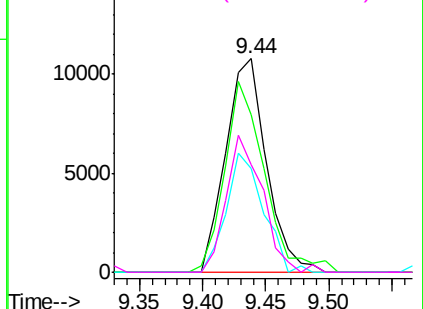
#55
1,1,2-Trichloroethane
Concen: 5.50 ug/l
RT: 9.44 min Scan# 936
Delta R.T. 0.01 min
Lab File: VD059507.D
Acq: 2 Jul 2018 17:06

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

Tot Ion: 97 Resp: 24155
Ion Ratio Lower Upper
97 100
83 73.6 74.3 111.5#
85 48.5 48.1 72.1
99 50.5 47.2 70.8

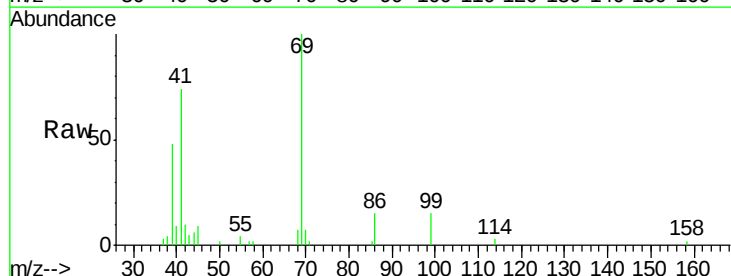


Abundance Ion 96.85 (96.55 to 97.55): VDC
Ion 82.95 (82.65 to 83.65): VDC
Ion 84.95 (84.65 to 85.65): VDC
Ion 98.85 (98.55 to 99.55): VDC

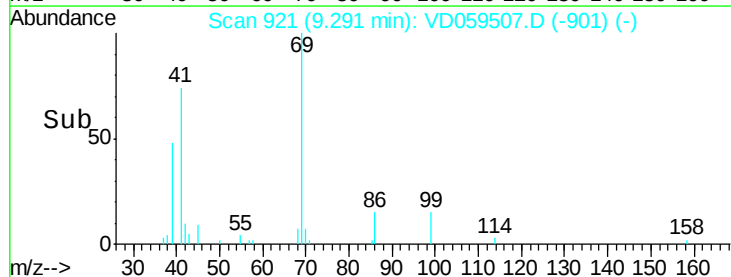
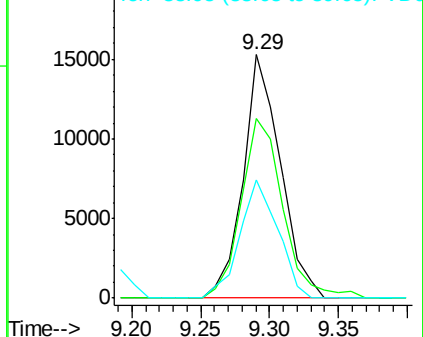


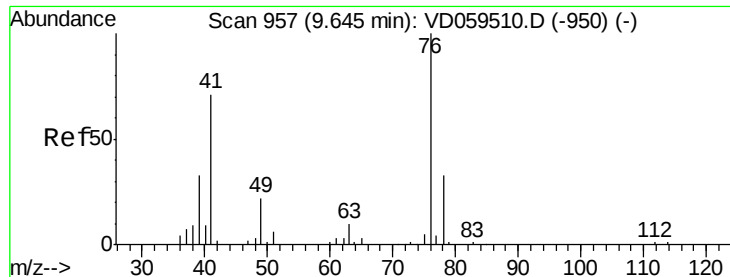
#56
Ethyl methacrylate
Concen: 5.36 ug/l
RT: 9.29 min Scan# 921
Delta R.T. -0.00 min
Lab File: VD059507.D
Acq: 2 Jul 2018 17:06

Tgt Ion: 69 Resp: 28949
Ion Ratio Lower Upper
69 100
41 73.7 63.4 95.0
39 48.3 45.0 67.6



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: 5.50 ug/l

RT: 9.64 min Scan# 957

Delta R.T. -0.00 min

Lab File: VD059507.D

Acq: 2 Jul 2018 17:06

Instrument :

MSVOA_D

ClientSampleId :

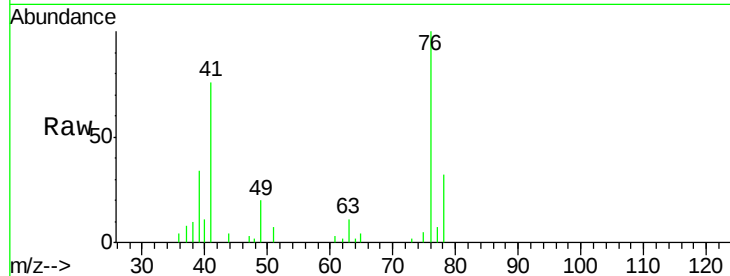
VSTDIC005

Tot Ion: 76 Resp: 42797

Ion Ratio Lower Upper

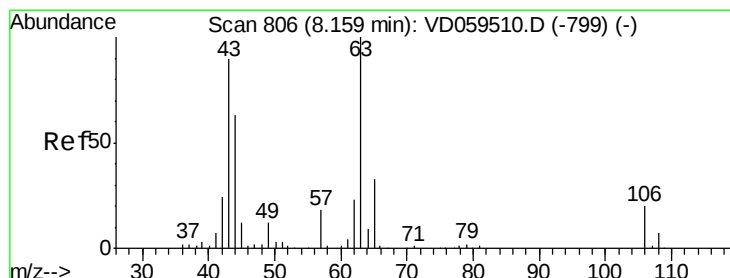
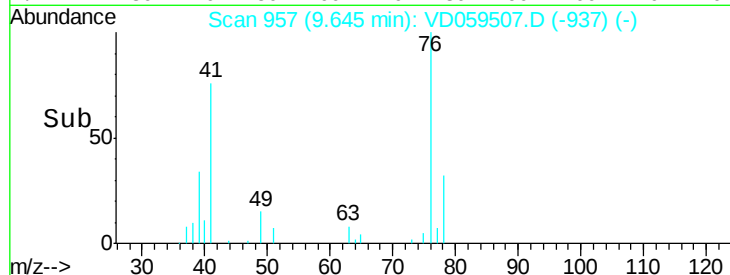
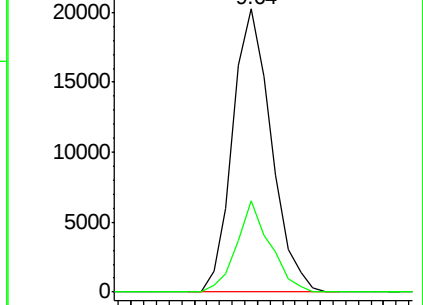
76 100

78 32.3 26.5 39.7



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: 29.17 ug/l

RT: 8.17 min Scan# 807

Delta R.T. 0.01 min

Lab File: VD059507.D

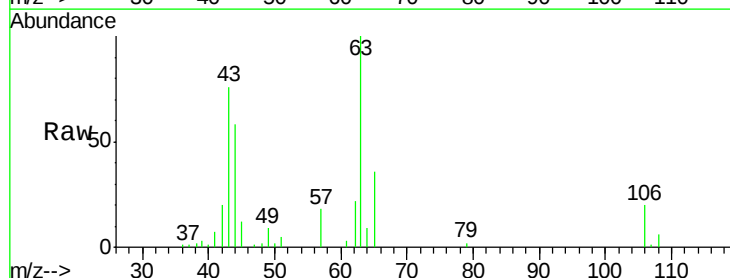
Acq: 2 Jul 2018 17:06

Tgt Ion: 63 Resp: 76876

Ion Ratio Lower Upper

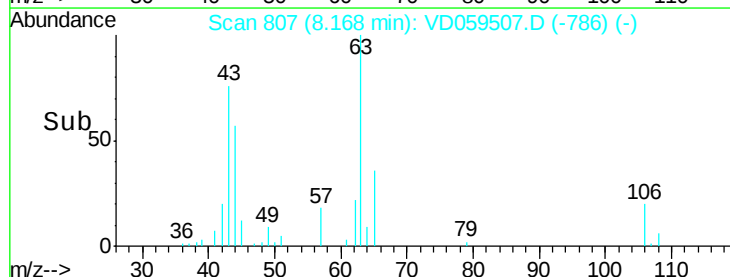
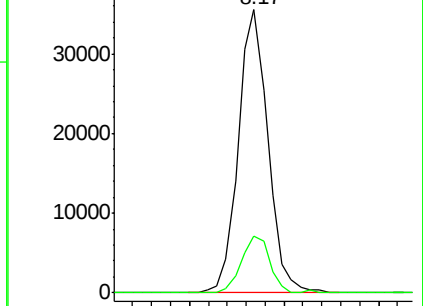
63 100

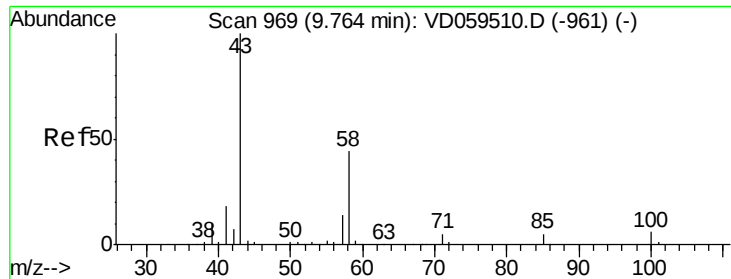
106 19.9 16.4 24.6



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

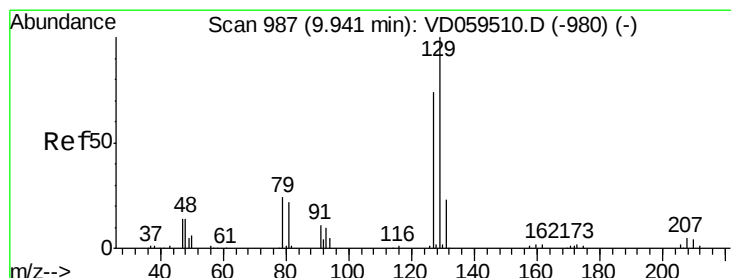
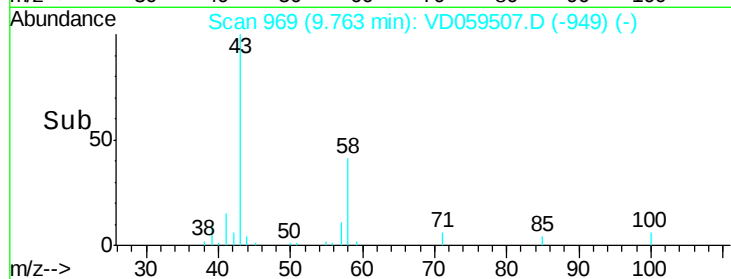
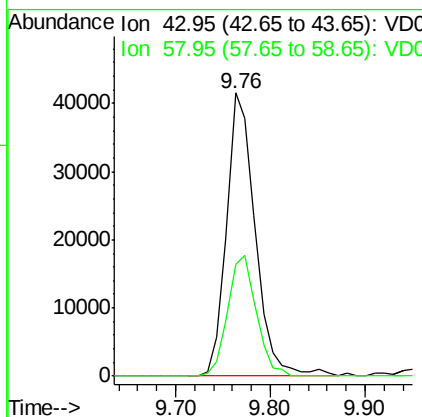
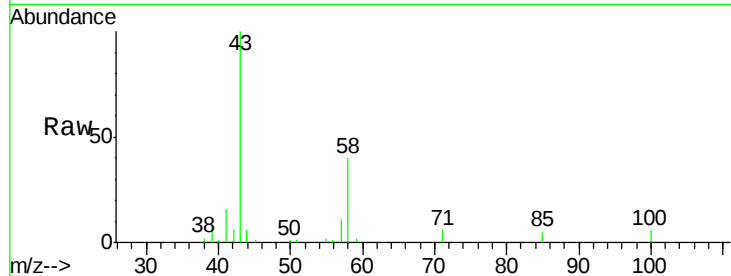




#59
2-Hexanone
Concen: 26.36 ug/l
RT: 9.76 min Scan# 969
Delta R.T. -0.00 min
Lab File: VD059507.D
Acq: 2 Jul 2018 17:06

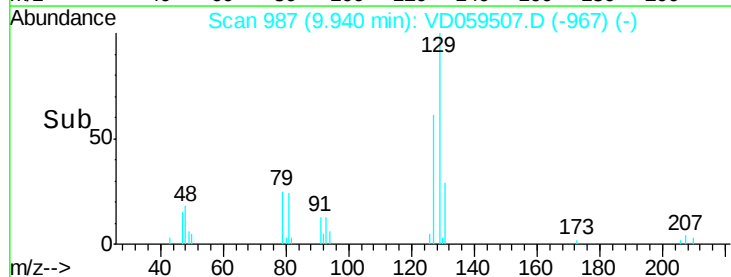
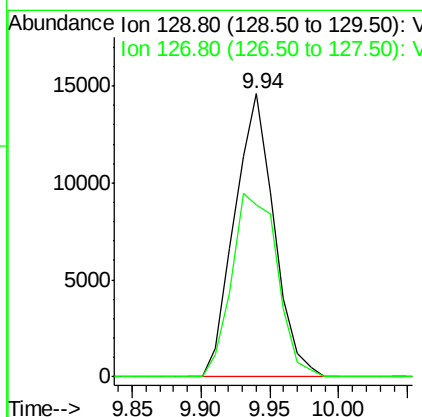
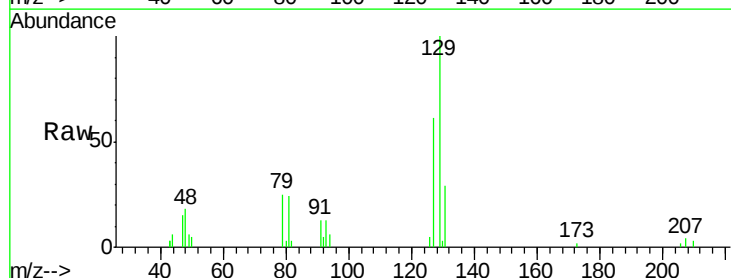
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

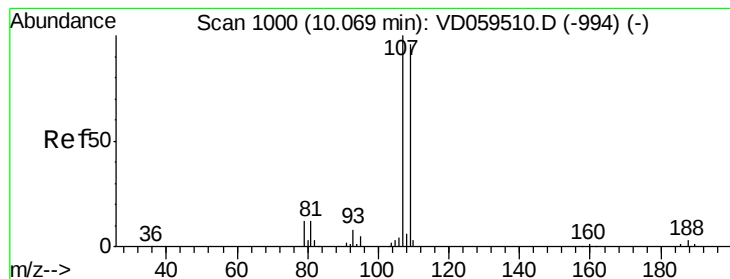
Tot Ion: 43 Resp: 86950
Ion Ratio Lower Upper
43 100
58 39.7 22.0 66.0



#60
Dibromochloromethane
Concen: 4.71 ug/l
RT: 9.94 min Scan# 987
Delta R.T. -0.00 min
Lab File: VD059507.D
Acq: 2 Jul 2018 17:06

Tgt Ion: 129 Resp: 29118
Ion Ratio Lower Upper
129 100
127 60.7 37.2 111.6





#61

1,2-Dibromoethane

Concen: 5.26 ug/l

RT: 10.08 min Scan# 1001

Delta R.T. 0.01 min

Lab File: VD059507.D

Acq: 2 Jul 2018 17:06

Instrument :

MSVOA_D

ClientSampleId :

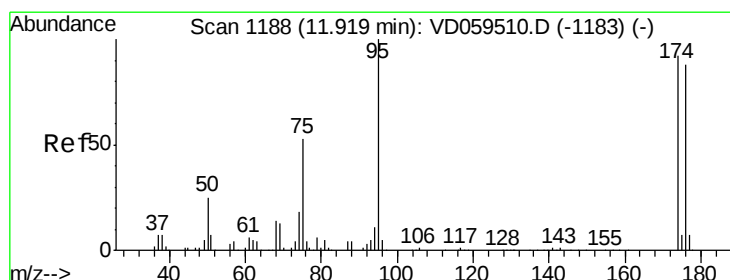
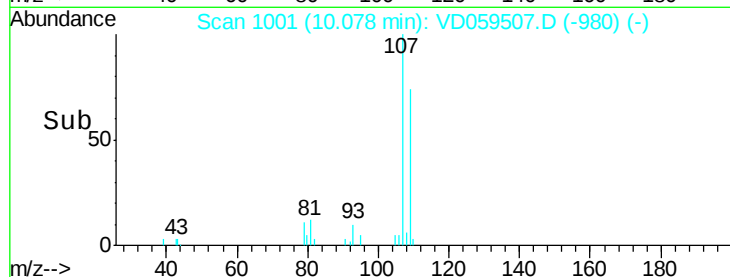
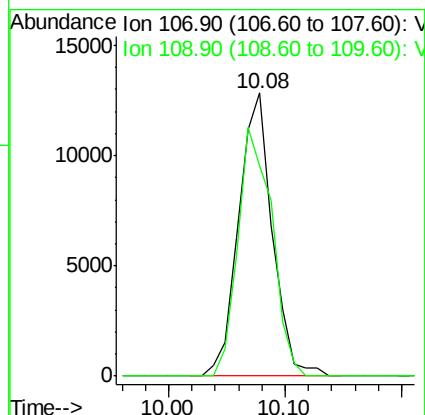
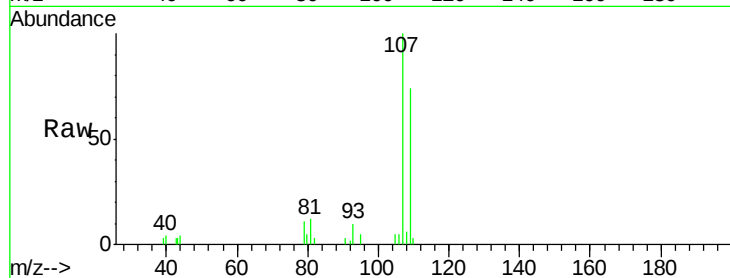
VSTDIC005

Tot Ion:107 Resp: 25675

Ion Ratio Lower Upper

107 100

109 74.3 76.8 115.2#



#62

4-Bromofluorobenzene

Concen: 5.26 ug/l

RT: 11.92 min Scan# 1188

Delta R.T. -0.00 min

Lab File: VD059507.D

Acq: 2 Jul 2018 17:06

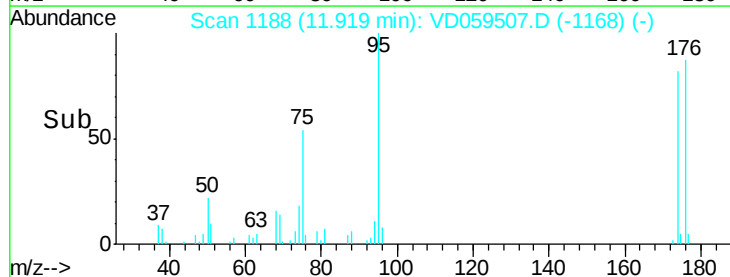
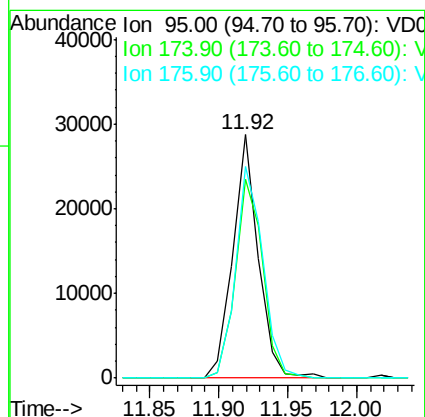
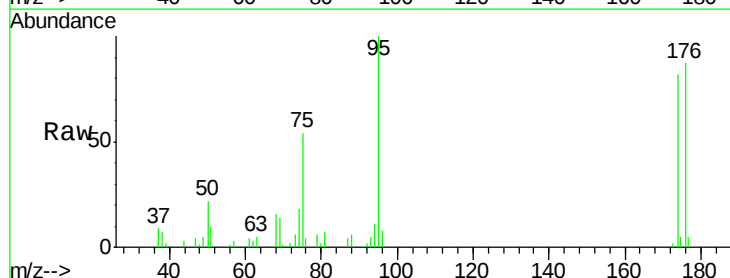
Tgt Ion: 95 Resp: 36914

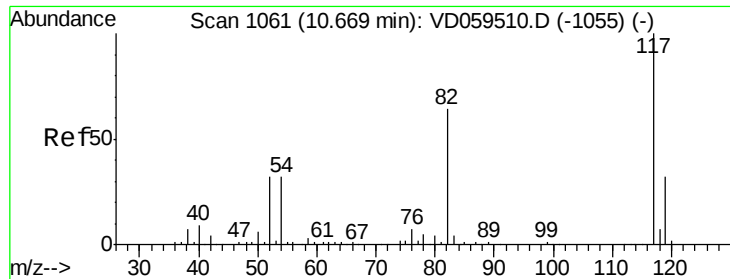
Ion Ratio Lower Upper

95 100

174 81.6 0.0 183.0

176 87.1 0.0 176.6





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.67 min Scan# 1061

Delta R.T. -0.00 min

Lab File: VD059507.D

Acq: 2 Jul 2018 17:06

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

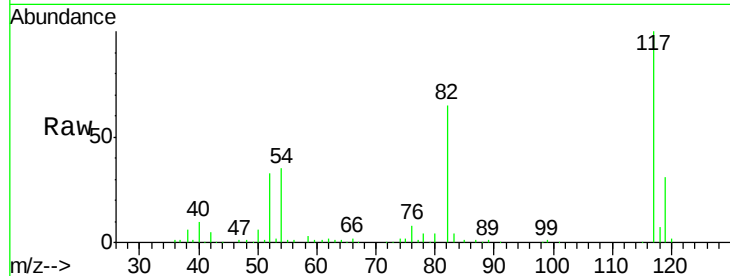
Tot Ion:117 Resp: 715314

Ion Ratio Lower Upper

117 100

82 65.4 51.1 76.7

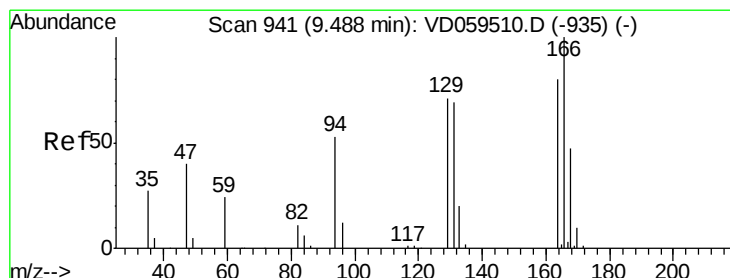
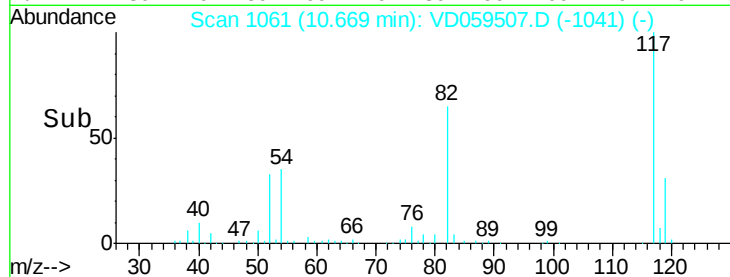
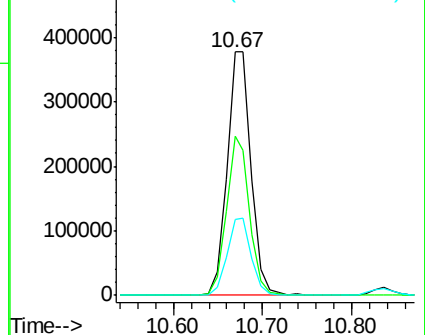
119 31.3 25.6 38.4



Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V



#64

Tetrachloroethene

Concen: 5.49 ug/l

RT: 9.50 min Scan# 942

Delta R.T. 0.01 min

Lab File: VD059507.D

Acq: 2 Jul 2018 17:06

Tgt Ion:164 Resp: 34158

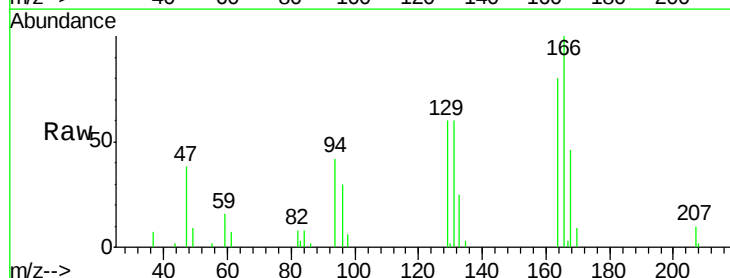
Ion Ratio Lower Upper

164 100

166 125.0 99.5 149.3

129 75.3 70.9 106.3

131 75.6 68.8 103.2

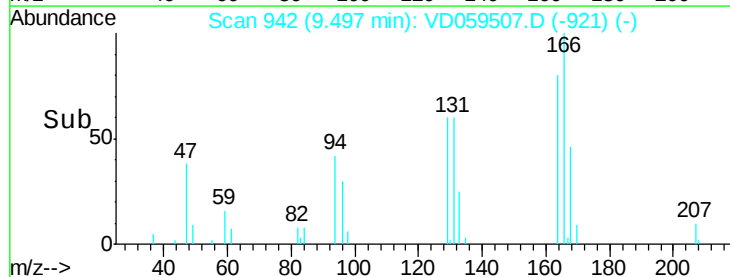
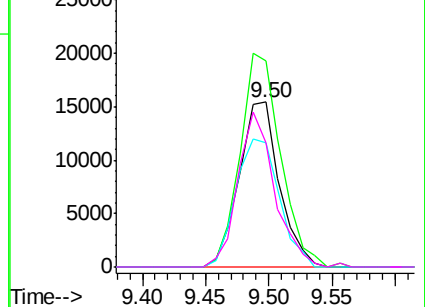


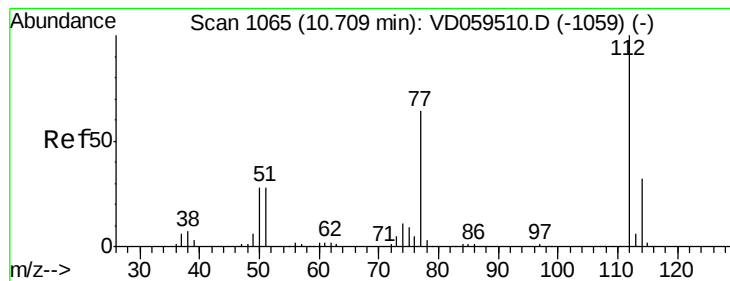
Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.85 (165.55 to 166.55): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#65

Chlorobenzene

Concen: 5.36 ug/l

RT: 10.71 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VD059507.D

Acq: 2 Jul 2018 17:06

Instrument :

MSVOA_D

ClientSampleId :

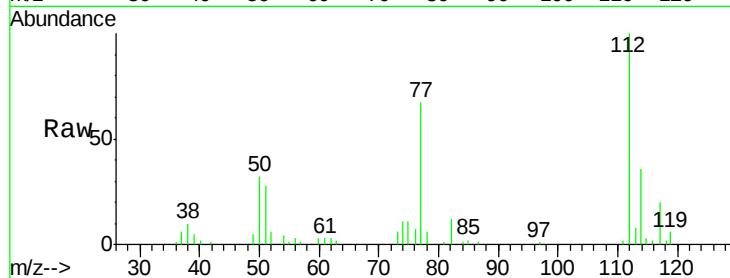
VSTDIC005

Tot Ion:112 Resp: 73488

Ion Ratio Lower Upper

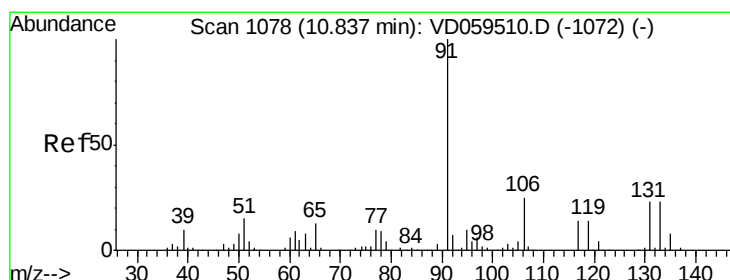
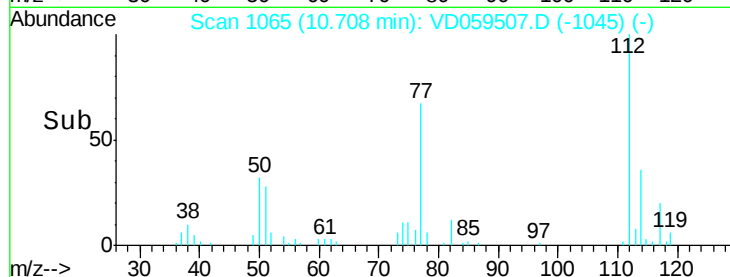
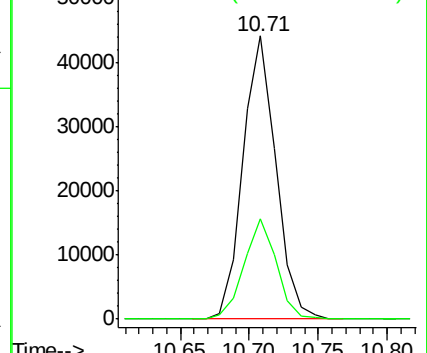
112 100

114 35.6 25.4 38.2



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 5.00 ug/l

RT: 10.84 min Scan# 1078

Delta R.T. -0.00 min

Lab File: VD059507.D

Acq: 2 Jul 2018 17:06

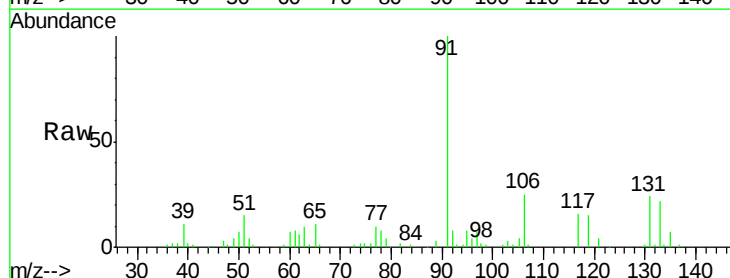
Tgt Ion:131 Resp: 27426

Ion Ratio Lower Upper

131 100

133 91.8 48.9 146.6

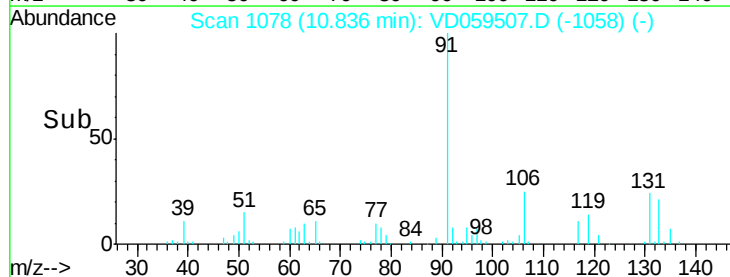
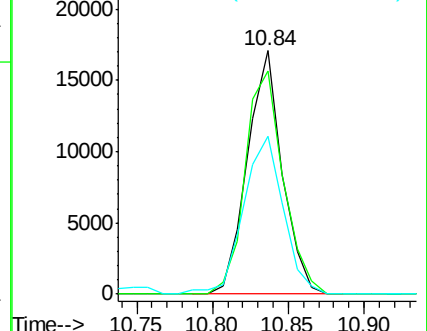
119 65.0 30.7 92.1

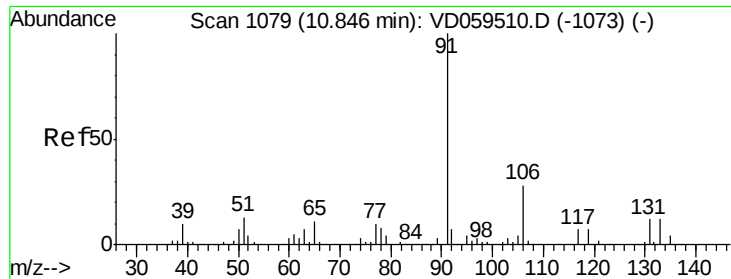


Abundance Ion 130.90 (130.60 to 131.60): V

Ion 132.90 (132.60 to 133.60): V

Ion 118.85 (118.55 to 119.55): V

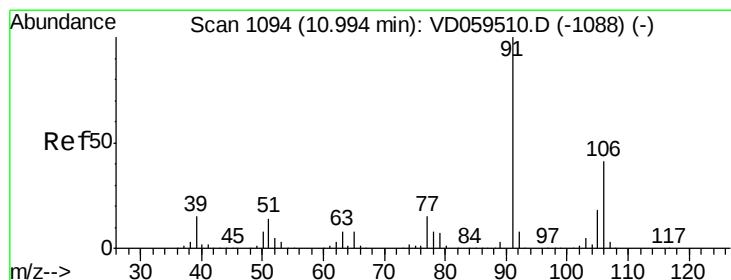
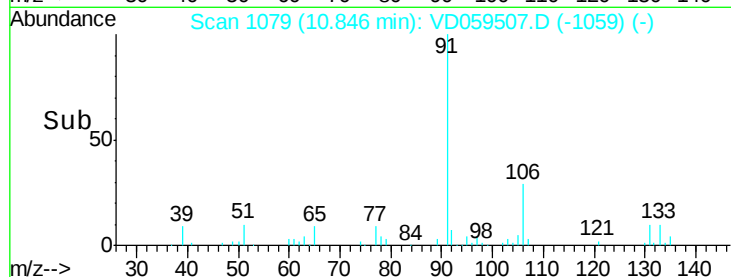
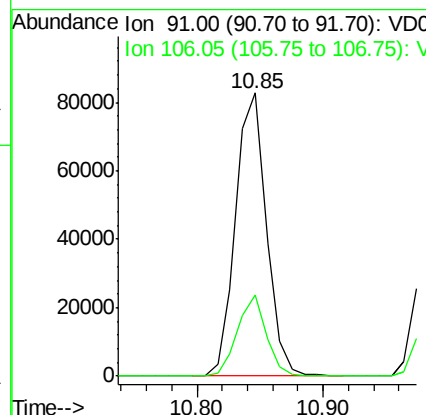
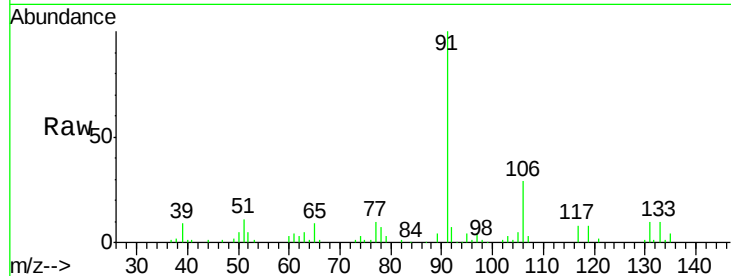




#67
Ethyl Benzene
Concen: 5.83 ug/l
RT: 10.85 min Scan# 1079
Delta R.T. -0.00 min
Lab File: VD059507.D
Acq: 2 Jul 2018 17:06

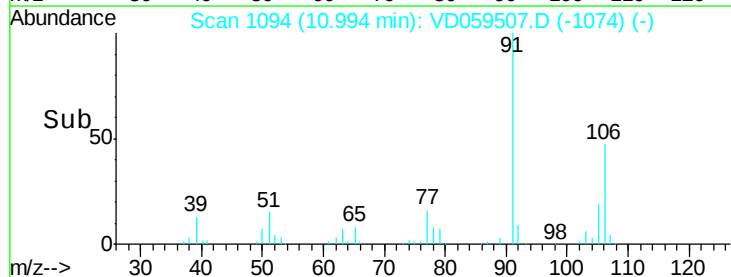
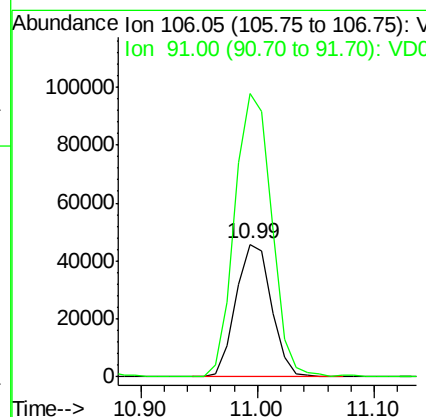
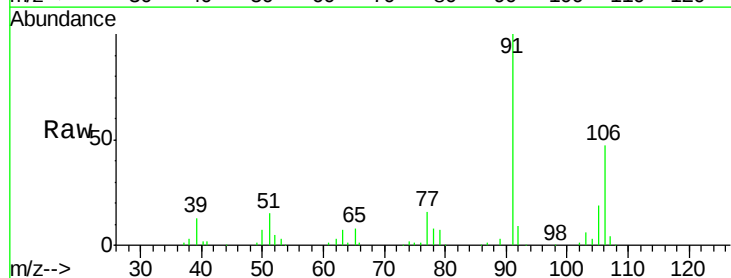
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

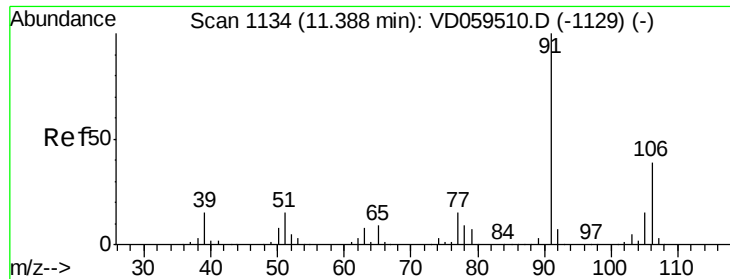
Tot Ion: 91 Resp: 138986
Ion Ratio Lower Upper
91 100
106 28.5 22.2 33.2



#68
m/p-Xylenes
Concen: 12.58 ug/l
RT: 10.99 min Scan# 1094
Delta R.T. -0.00 min
Lab File: VD059507.D
Acq: 2 Jul 2018 17:06

Tgt Ion: 106 Resp: 97255
Ion Ratio Lower Upper
106 100
91 213.9 194.1 291.1

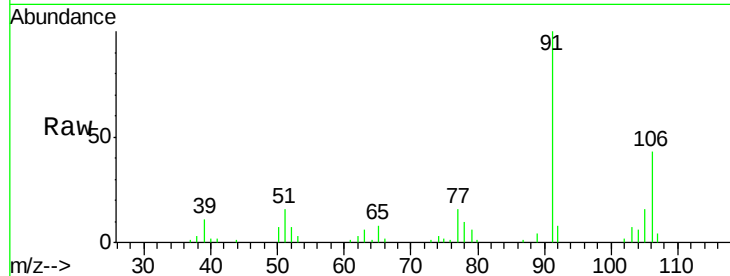




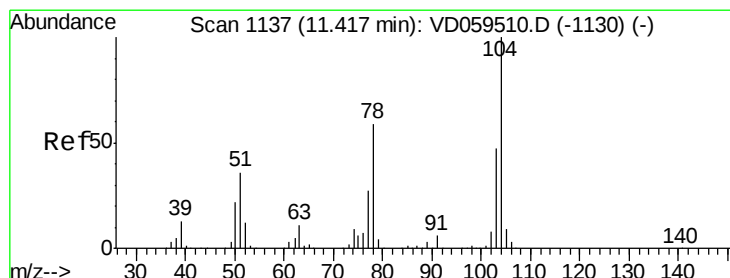
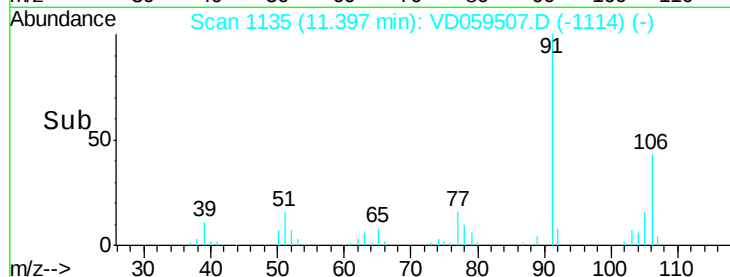
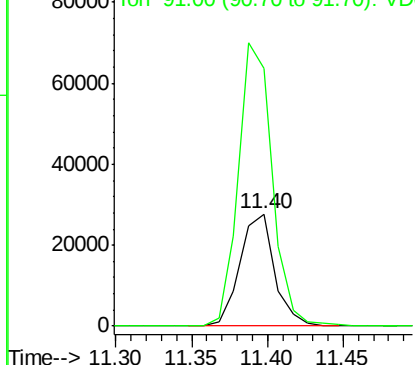
#69
o-Xylene
Concen: 5.85 ug/l
RT: 11.40 min Scan# 1135
Delta R.T. 0.01 min
Lab File: VD059507.D
Acq: 2 Jul 2018 17:06

Instrument :
MSVOA_D
ClientSampleID :
VSTDIC005

Tot Ion:106 Resp: 44150
Ion Ratio Lower Upper
106 100
91 230.6 127.0 381.0

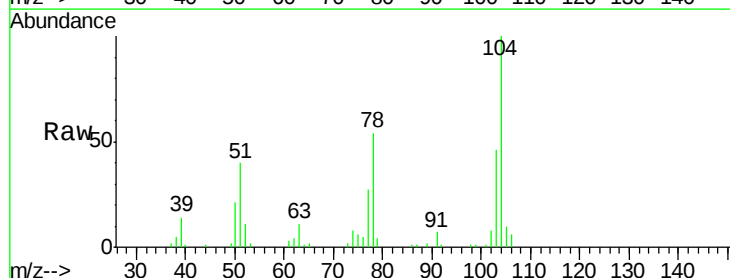


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

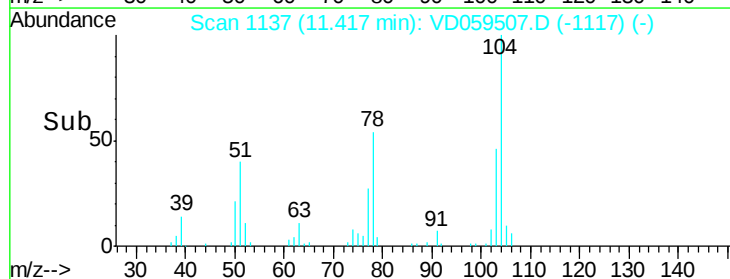
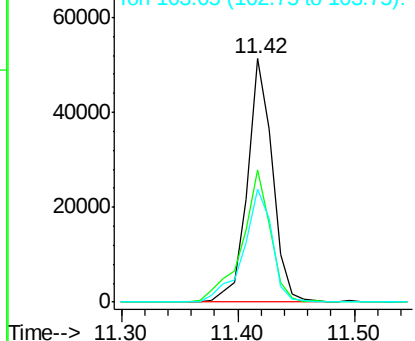


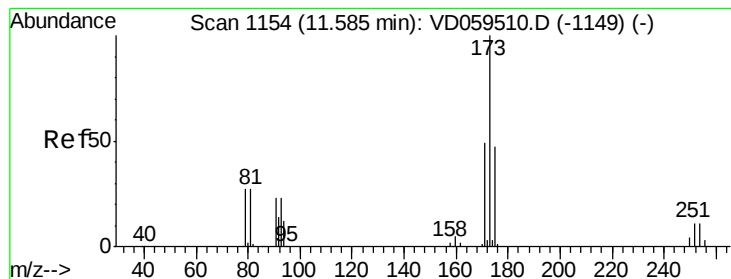
#70
Styrene
Concen: 6.02 ug/l
RT: 11.42 min Scan# 1137
Delta R.T. -0.00 min
Lab File: VD059507.D
Acq: 2 Jul 2018 17:06

Tgt Ion:104 Resp: 76234
Ion Ratio Lower Upper
104 100
78 54.3 47.6 71.4
103 46.2 37.6 56.4



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





#71

Bromoform

Concen: 4.57 ug/l

RT: 11.59 min Scan# 1155

Delta R.T. 0.01 min

Lab File: VD059507.D

Acq: 2 Jul 2018 17:06

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

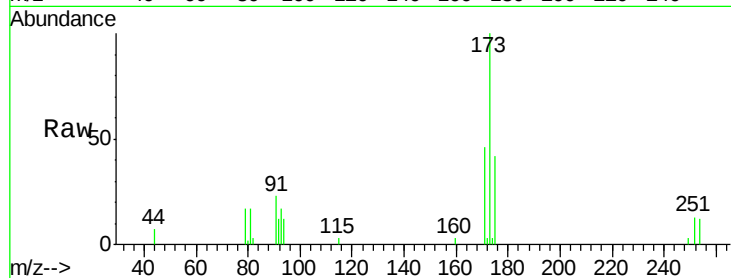
Tot Ion:173 Resp: 19015

Ion Ratio Lower Upper

173 100

175 41.8 23.3 69.8

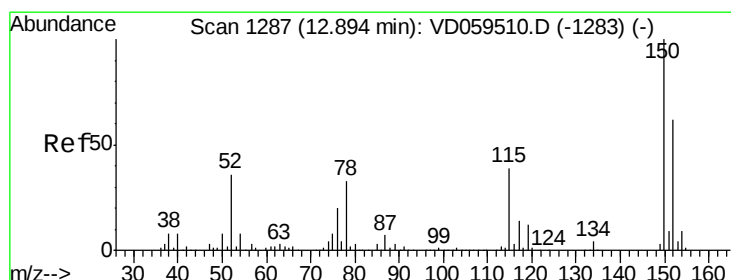
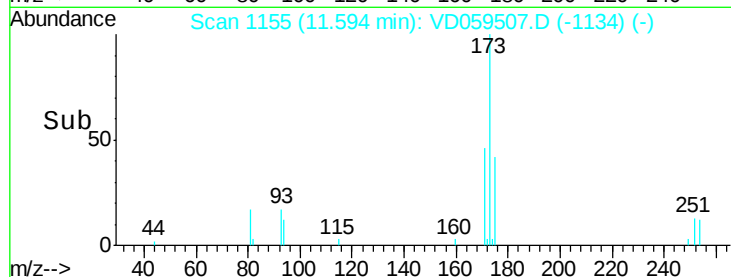
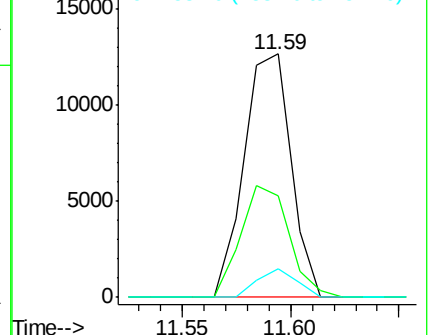
254 11.6 9.0 13.6



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: 12.89 min Scan# 1287

Delta R.T. -0.00 min

Lab File: VD059507.D

Acq: 2 Jul 2018 17:06

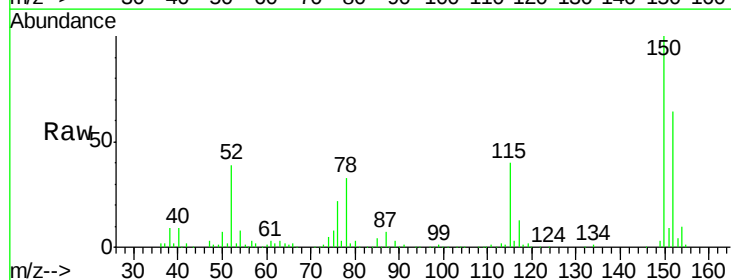
Tgt Ion:152 Resp: 384400

Ion Ratio Lower Upper

152 100

115 61.4 31.3 93.9

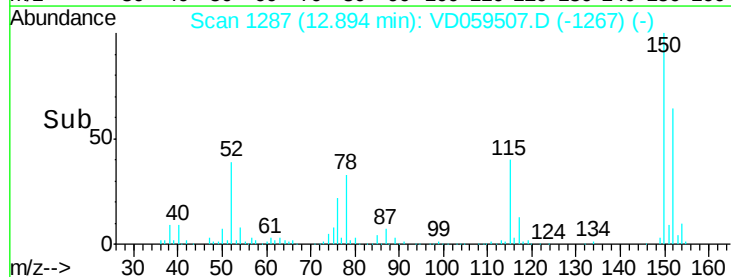
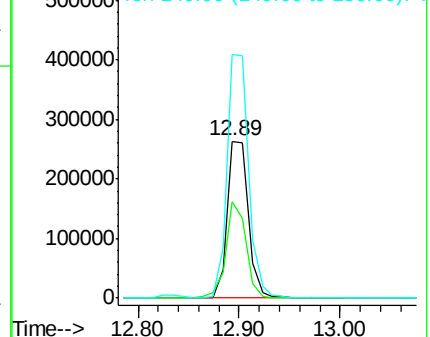
150 155.3 0.0 323.6

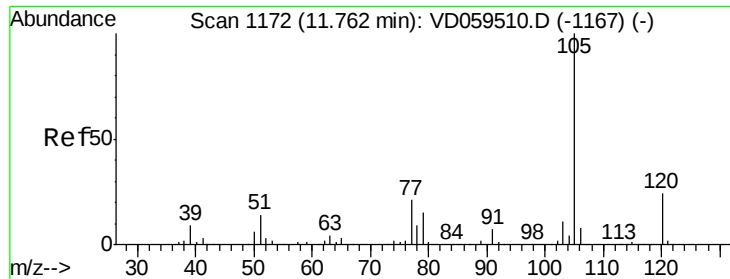


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 5.19 ug/l

RT: 11.76 min Scan# 1172

Delta R.T. -0.00 min

Lab File: VD059507.D

Acq: 2 Jul 2018 17:06

Instrument :

MSVOA_D

ClientSampleId :

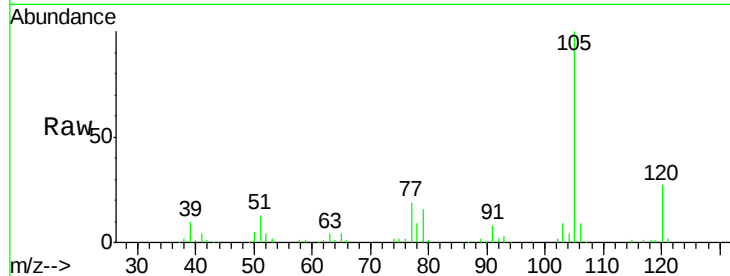
VSTDIC005

Tot Ion:105 Resp: 118938

Ion Ratio Lower Upper

105 100

120 27.1 12.1 36.3



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

11.76

80000

60000

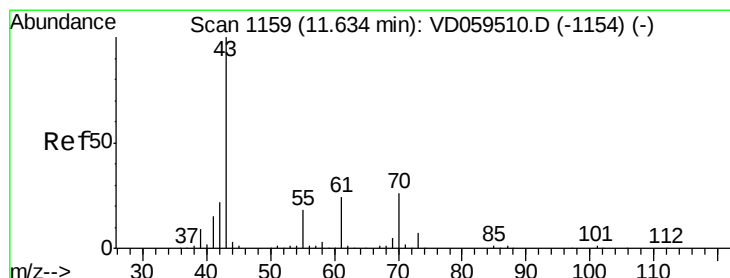
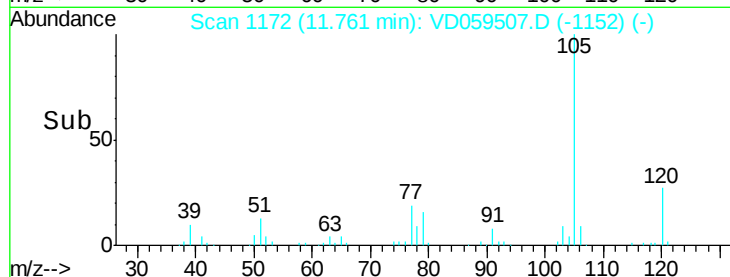
40000

20000

0

Time-->

11.70 11.80



#74

N-ethyl acetate

Concen: 4.51 ug/l

RT: 11.63 min Scan# 1159

Delta R.T. -0.00 min

Lab File: VD059507.D

Acq: 2 Jul 2018 17:06

Tgt Ion: 43 Resp: 43195

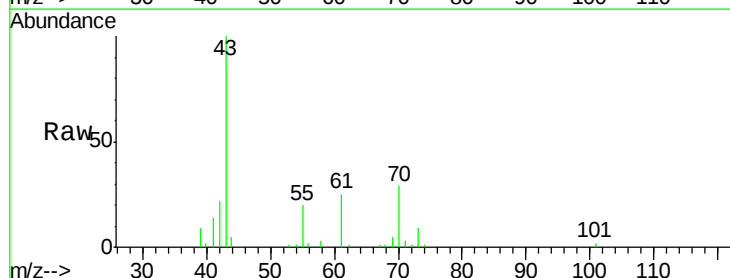
Ion Ratio Lower Upper

43 100

70 28.6 20.6 31.0

55 19.7 14.4 21.6

61 25.2 19.2 28.8



Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V

11.63

30000

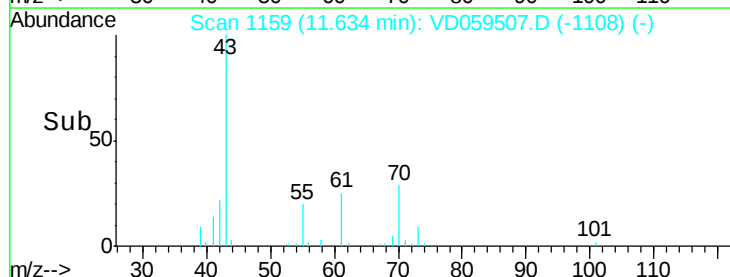
20000

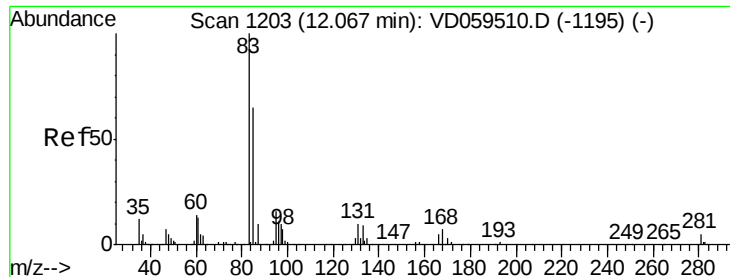
10000

0

Time-->

11.60 11.70





#75

1,1,2,2-Tetrachloroethane

Concen: 5.65 ug/l

RT: 12.07 min Scan# 1203

Delta R.T. -0.00 min

Lab File: VD059507.D

Acq: 2 Jul 2018 17:06

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

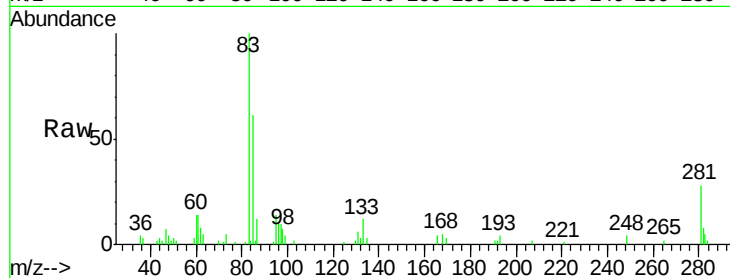
Tot Ion: 83 Resp: 32260

Ion Ratio Lower Upper

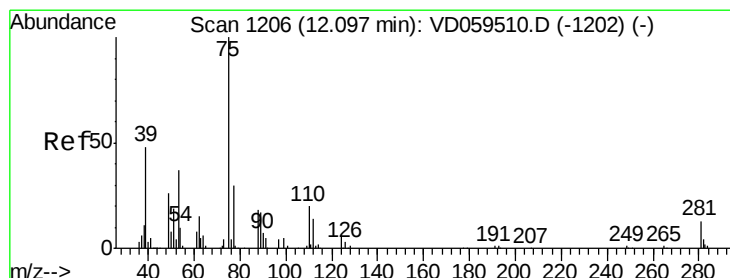
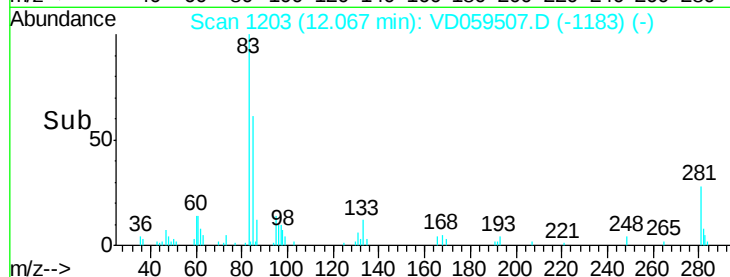
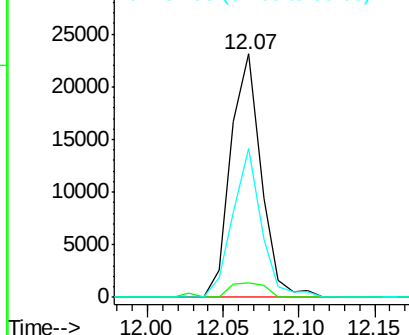
83 100

131 6.1 5.0 15.0

85 61.3 32.3 96.8



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: 5.35 ug/l

RT: 12.10 min Scan# 1206

Delta R.T. -0.00 min

Lab File: VD059507.D

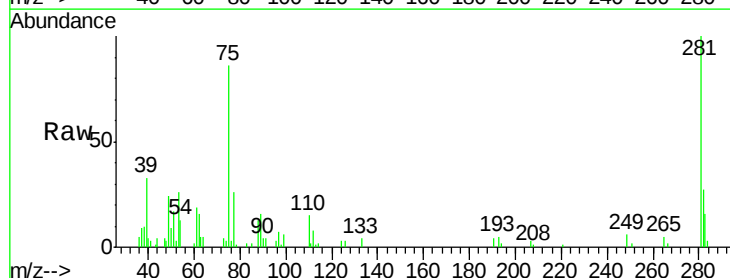
Acq: 2 Jul 2018 17:06

Tgt Ion: 75 Resp: 32374

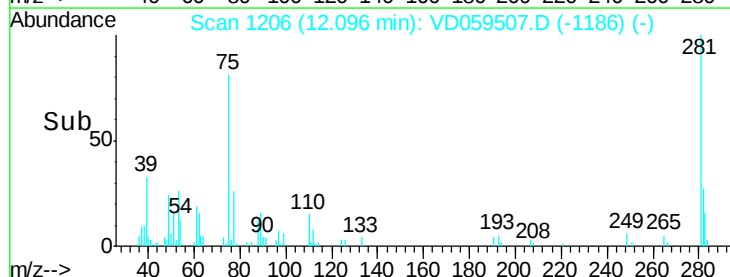
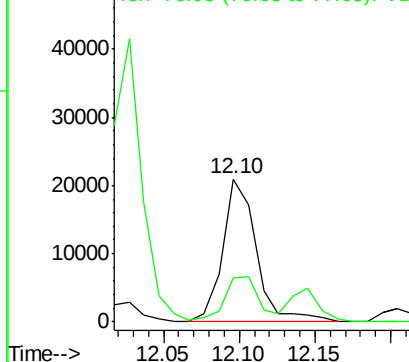
Ion Ratio Lower Upper

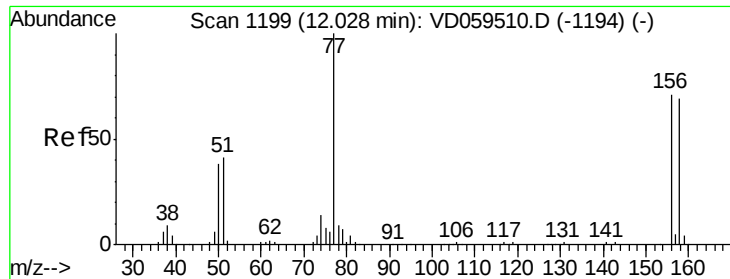
75 100

77 30.7 16.4 49.2



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 5.25 ug/l

RT: 12.03 min Scan# 1199

Delta R.T. -0.00 min

Lab File: VD059507.D

Acq: 2 Jul 2018 17:06

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

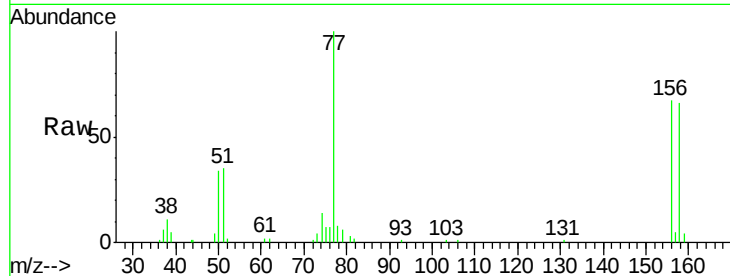
Tot Ion:156 Resp: 37476

Ion Ratio Lower Upper

156 100

77 150.0 70.0 210.0

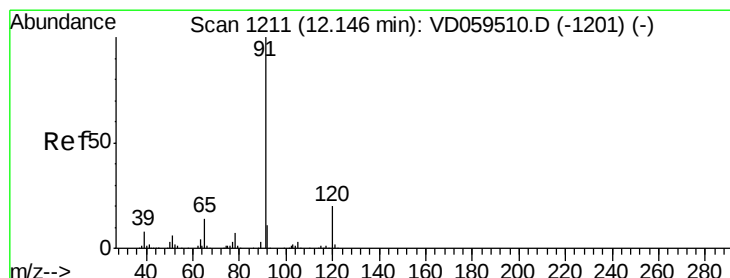
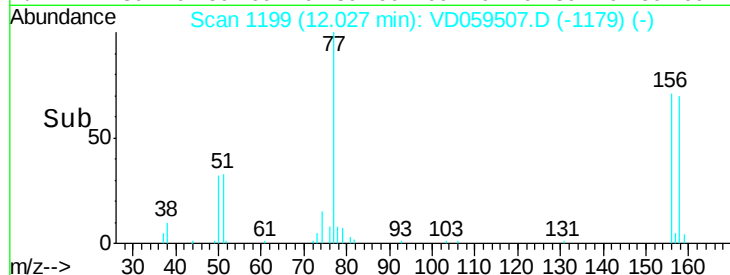
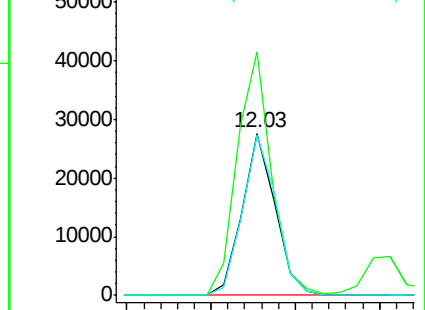
158 98.6 48.3 144.9



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: 5.28 ug/l

RT: 12.15 min Scan# 1211

Delta R.T. -0.00 min

Lab File: VD059507.D

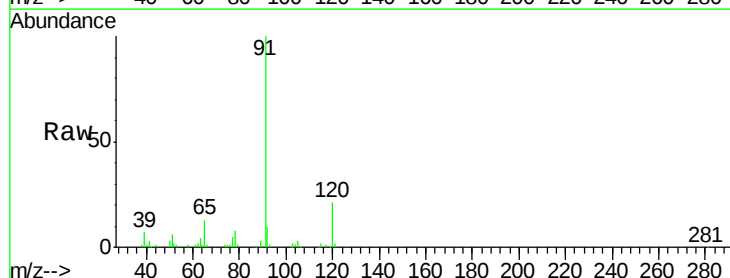
Acq: 2 Jul 2018 17:06

Tgt Ion: 91 Resp: 161341

Ion Ratio Lower Upper

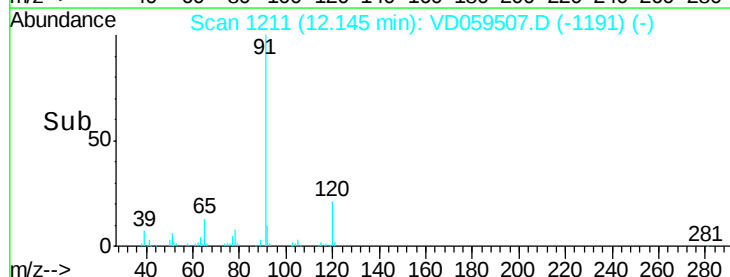
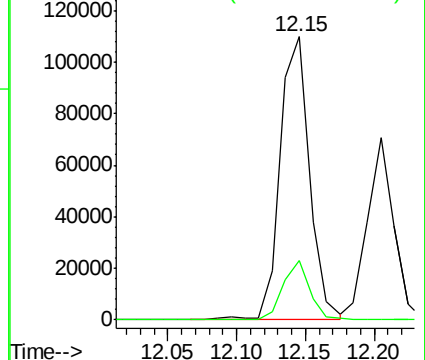
91 100

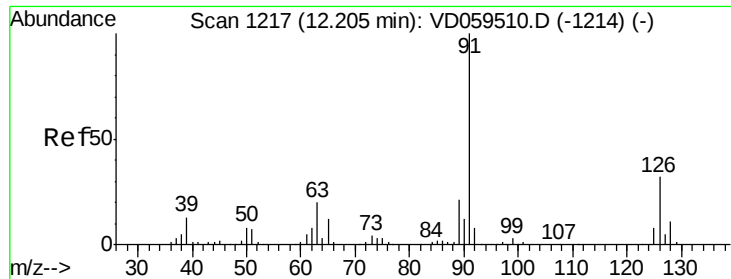
120 21.2 10.0 29.8



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V

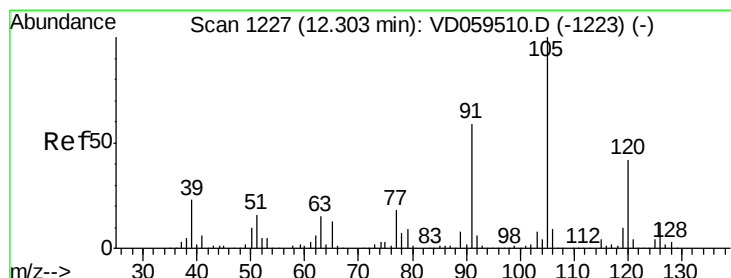
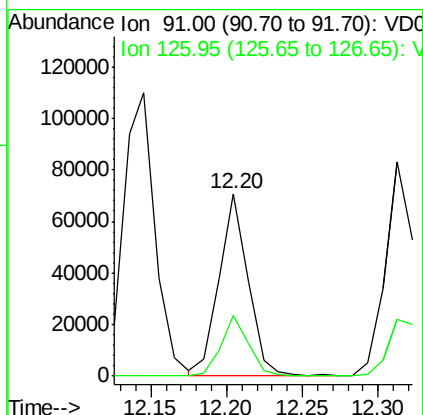
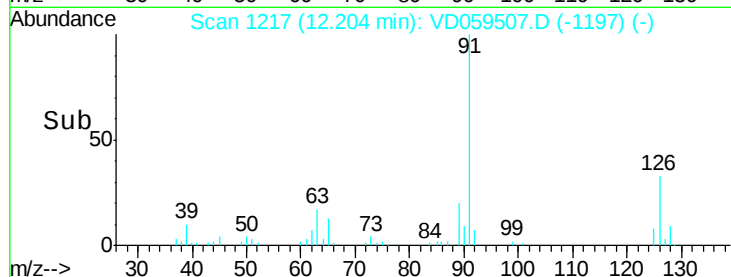
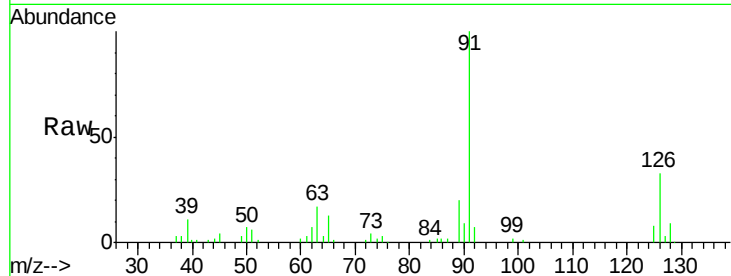




#79
 2-Chlorotoluene
 Concen: 5.37 ug/l
 RT: 12.20 min Scan# 1217
 Delta R.T. -0.00 min
 Lab File: VD059507.D
 Acq: 2 Jul 2018 17:06

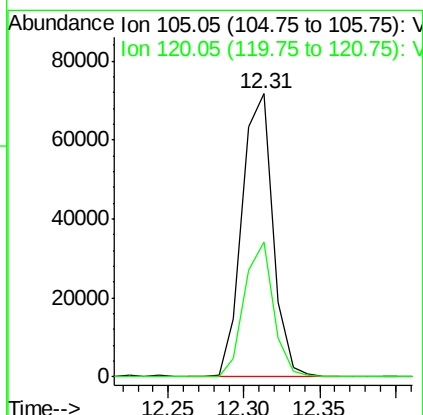
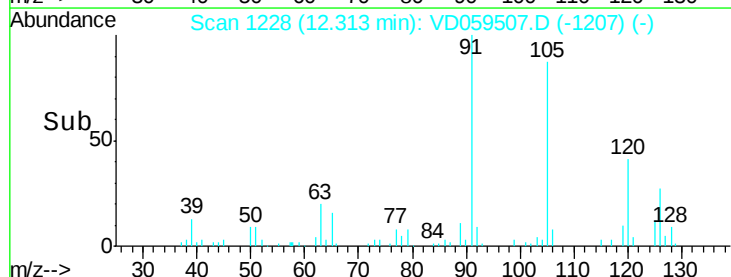
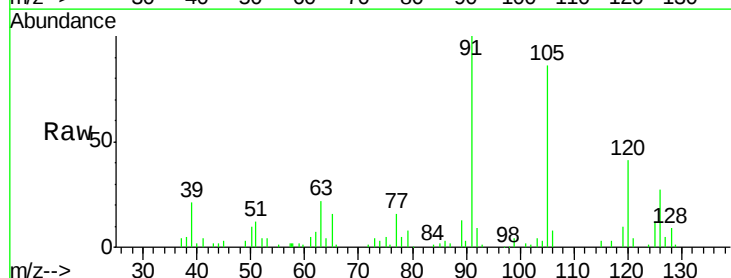
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC005

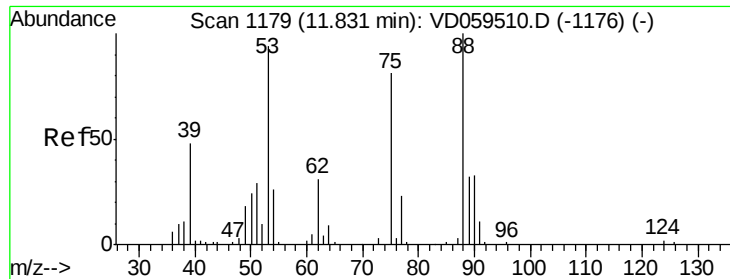
Tot Ion: 91 Resp: 95518
 Ion Ratio Lower Upper
 91 100
 126 33.4 15.9 47.6



#80
 1,3,5-Trimethylbenzene
 Concen: 5.49 ug/l
 RT: 12.31 min Scan# 1228
 Delta R.T. 0.01 min
 Lab File: VD059507.D
 Acq: 2 Jul 2018 17:06

Tgt Ion: 105 Resp: 101648
 Ion Ratio Lower Upper
 105 100
 120 47.5 20.8 62.4

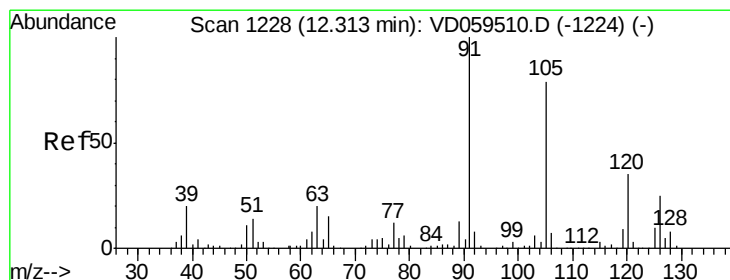
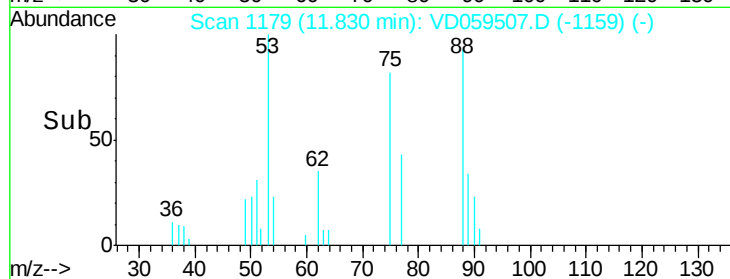
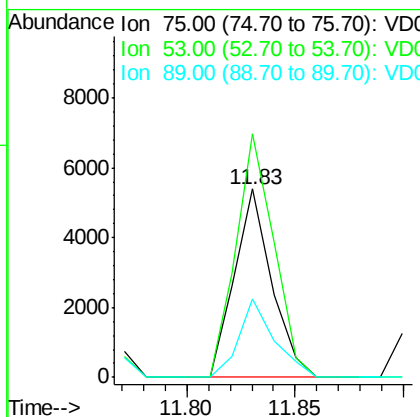
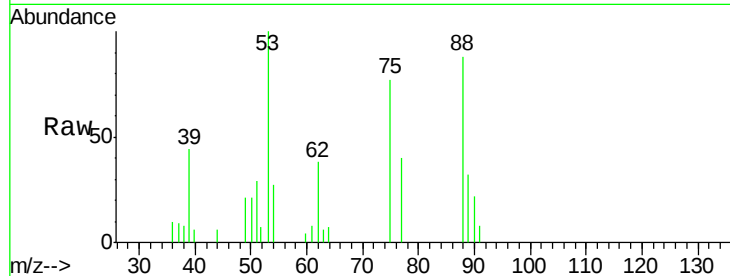




#81
trans-1,4-Dichloro-2-butene
Concen: 4.41 ug/l
RT: 11.83 min Scan# 1179
Delta R.T. -0.00 min
Lab File: VD059507.D
Acq: 2 Jul 2018 17:06

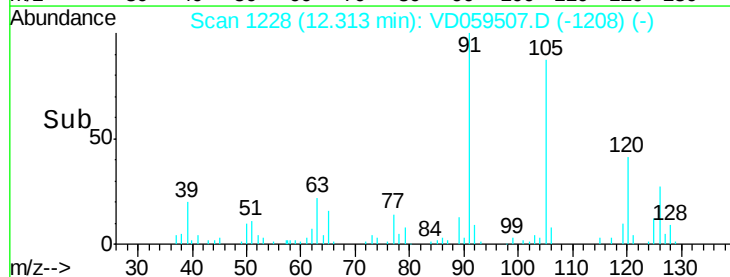
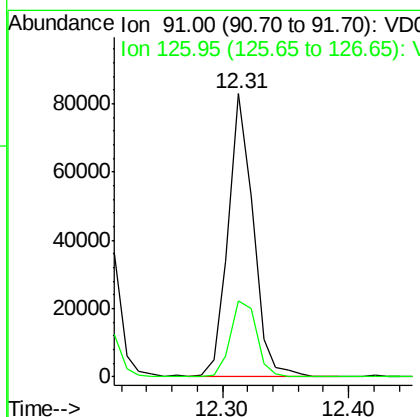
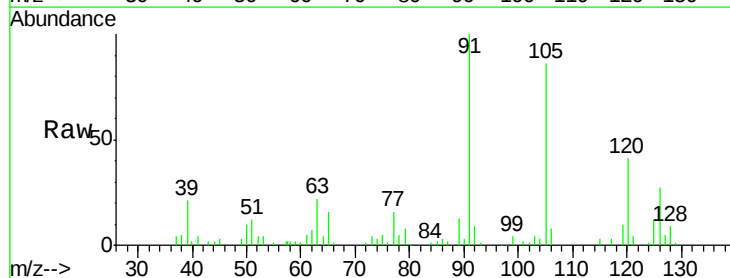
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

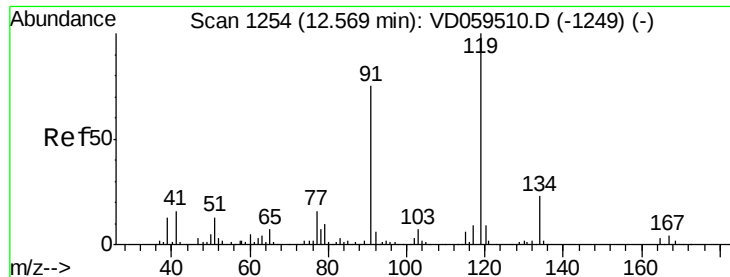
Tot Ion: 75 Resp: 6459
Ion Ratio Lower Upper
75 100
53 129.4 92.6 139.0
89 41.6 31.5 47.3



#82
4-Chlorotoluene
Concen: 5.61 ug/l
RT: 12.31 min Scan# 1228
Delta R.T. -0.00 min
Lab File: VD059507.D
Acq: 2 Jul 2018 17:06

Tgt Ion: 91 Resp: 113550
Ion Ratio Lower Upper
91 100
126 26.8 12.3 36.9

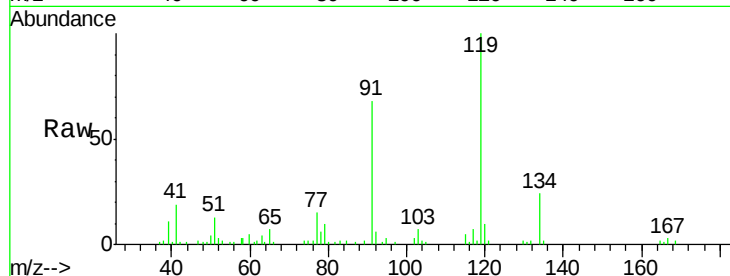




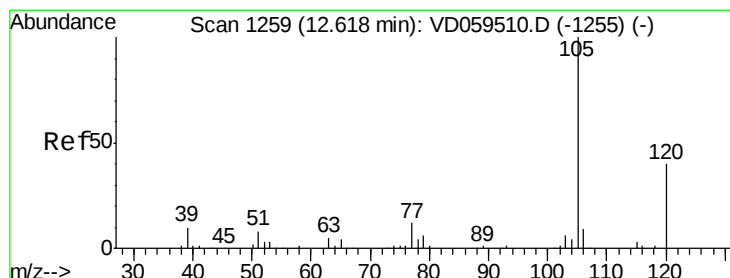
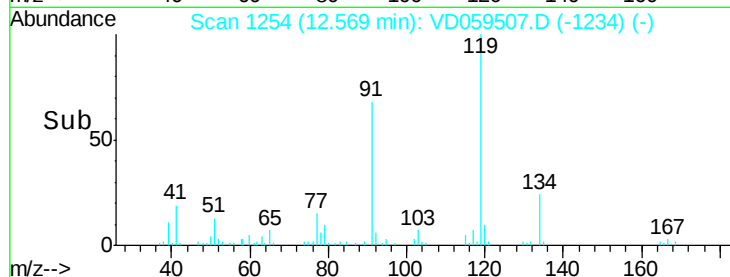
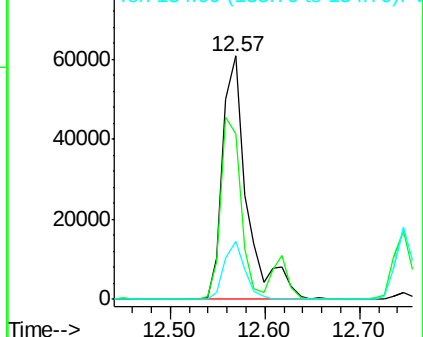
#83
tert-Butylbenzene
Concen: 5.35 ug/l
RT: 12.57 min Scan# 1254
Delta R.T. -0.00 min
Lab File: VD059507.D
Acq: 2 Jul 2018 17:06

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

Tot Ion:119 Resp: 109686
Ion Ratio Lower Upper
119 100
91 68.2 37.8 113.3
134 23.7 11.5 34.4

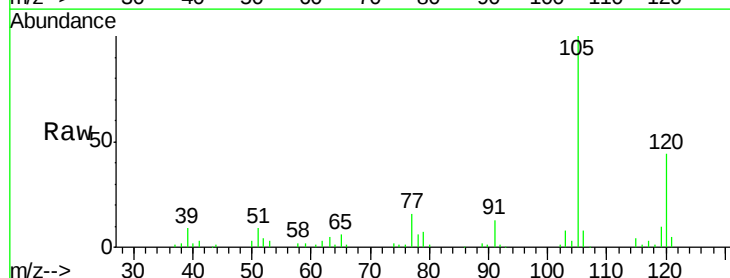


Abundance Ion 119.05 (118.75 to 119.75): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

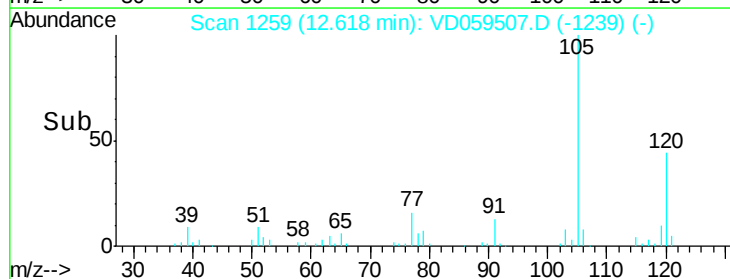
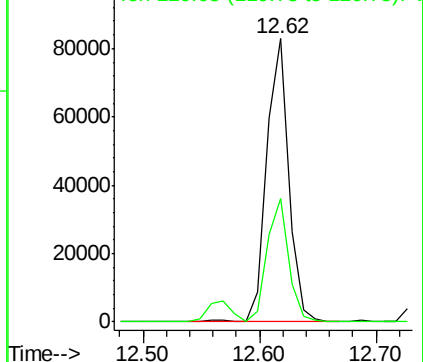


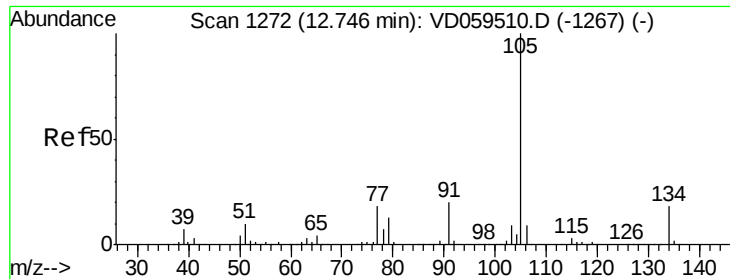
#84
1,2,4-Trimethylbenzene
Concen: 5.49 ug/l
RT: 12.62 min Scan# 1259
Delta R.T. -0.00 min
Lab File: VD059507.D
Acq: 2 Jul 2018 17:06

Tgt Ion:105 Resp: 108288
Ion Ratio Lower Upper
105 100
120 43.7 21.1 63.3



Abundance Ion 105.05 (104.75 to 105.75): V
Ion 120.05 (119.75 to 120.75): V





#85

sec-Butylbenzene

Concen: 5.49 ug/l

RT: 12.75 min Scan# 1272

Delta R.T. -0.00 min

Lab File: VD059507.D

Acq: 2 Jul 2018 17:06

Instrument :

MSVOA_D

ClientSampleId :

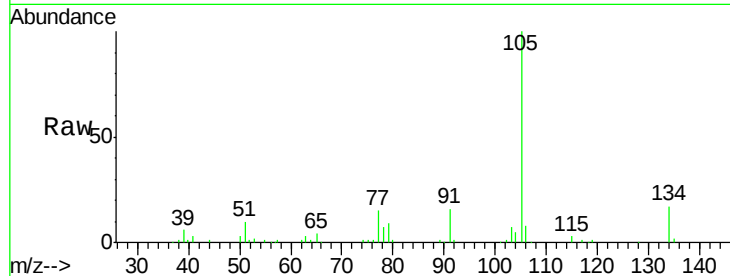
VSTDIC005

Tot Ion:105 Resp: 132093

Ion Ratio Lower Upper

105 100

134 16.6 8.8 26.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V

12.75

100000

80000

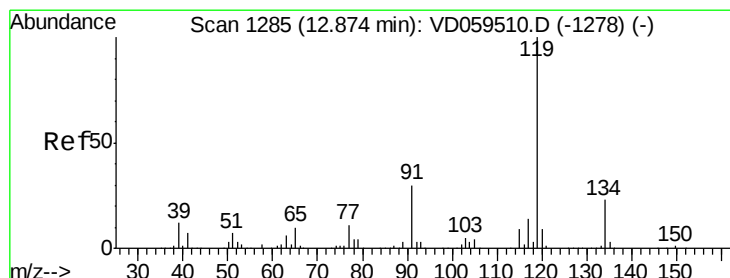
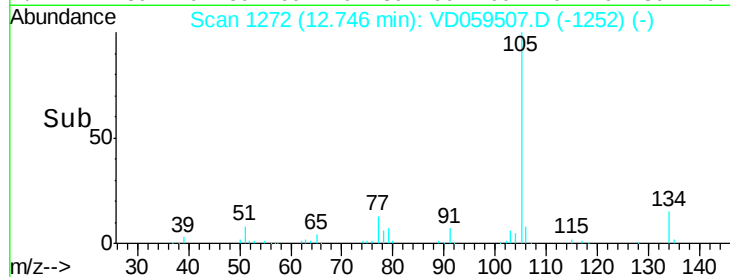
60000

40000

20000

0

Time-->



#86

p-Isopropyltoluene

Concen: 5.59 ug/l

RT: 12.87 min Scan# 1285

Delta R.T. -0.00 min

Lab File: VD059507.D

Acq: 2 Jul 2018 17:06

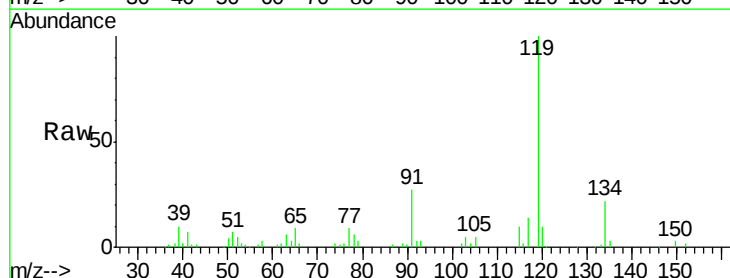
Tgt Ion:119 Resp: 111613

Ion Ratio Lower Upper

119 100

134 22.5 11.6 34.8

91 27.2 15.3 45.8



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

12.87

100000

80000

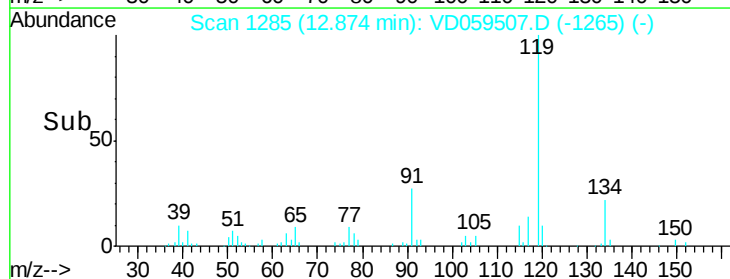
60000

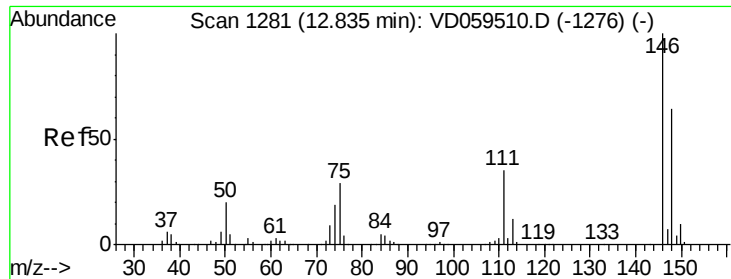
40000

20000

0

Time-->

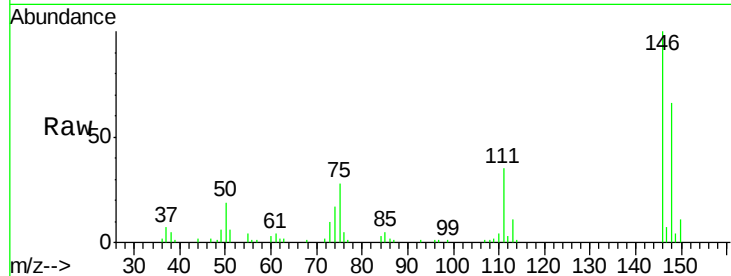




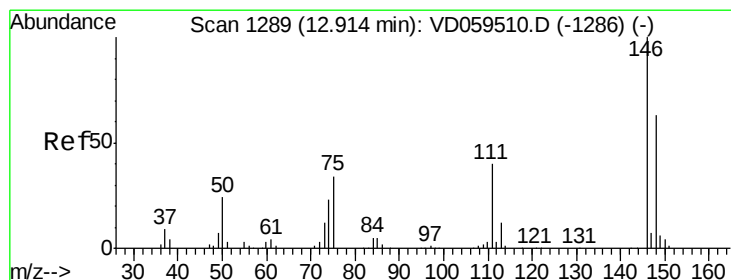
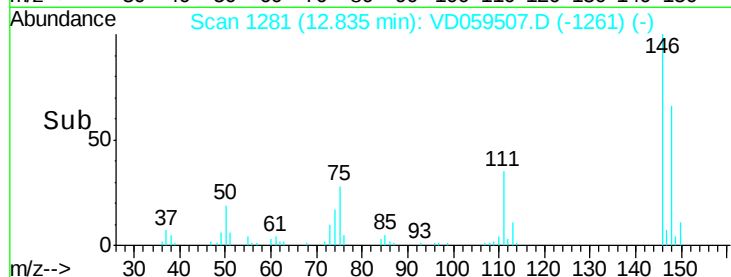
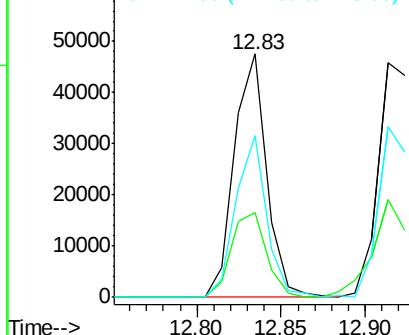
#87
 1,3-Dichlorobenzene
 Concen: 5.18 ug/l
 RT: 12.83 min Scan# 1281
 Delta R.T. -0.00 min
 Lab File: VD059507.D
 Acq: 2 Jul 2018 17:06

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC005

Tot Ion:146 Resp: 63472
 Ion Ratio Lower Upper
 146 100
 111 34.7 17.6 52.9
 148 66.2 32.0 96.2

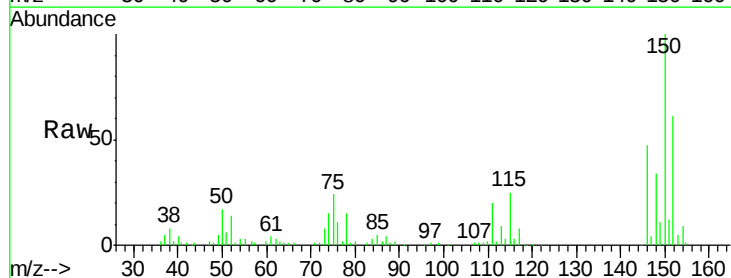


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

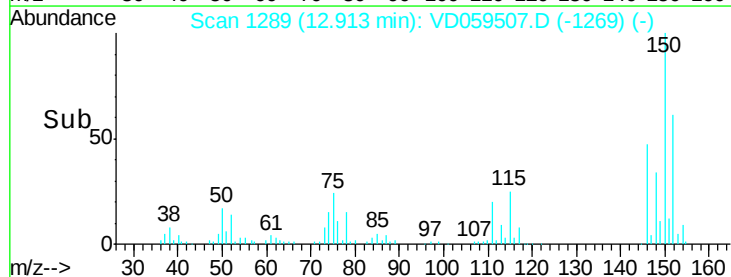
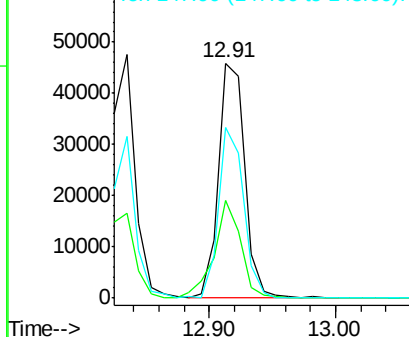


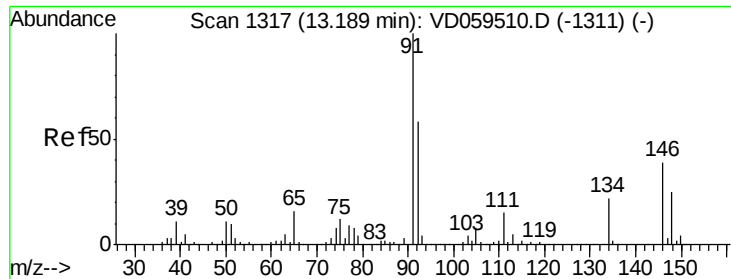
#88
 1,4-Dichlorobenzene
 Concen: 5.63 ug/l
 RT: 12.91 min Scan# 1289
 Delta R.T. -0.00 min
 Lab File: VD059507.D
 Acq: 2 Jul 2018 17:06

Tgt Ion:146 Resp: 66644
 Ion Ratio Lower Upper
 146 100
 111 41.8 20.0 59.9
 148 72.8 31.7 95.1



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

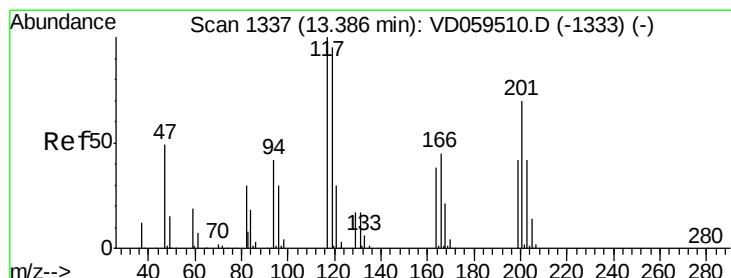
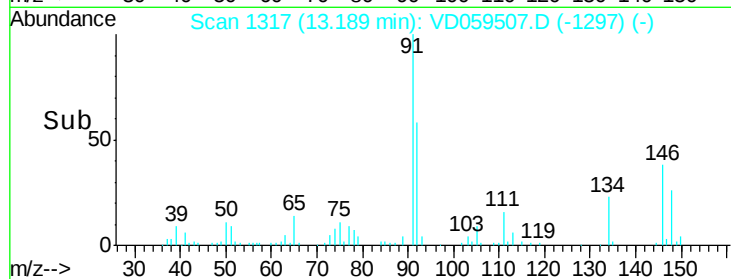
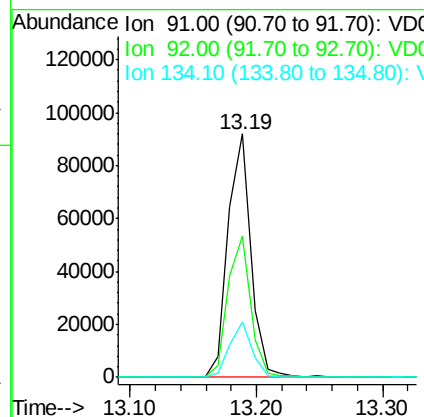
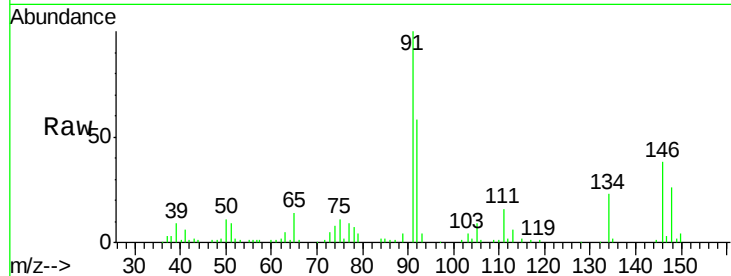




#89
n-Butylbenzene
Concen: 5.69 ug/l
RT: 13.19 min Scan# 1317
Delta R.T. -0.00 min
Lab File: VD059507.D
Acq: 2 Jul 2018 17:06

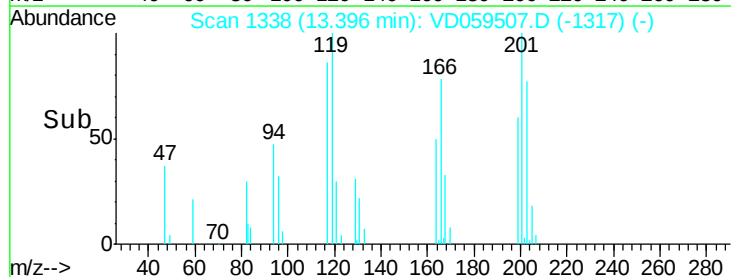
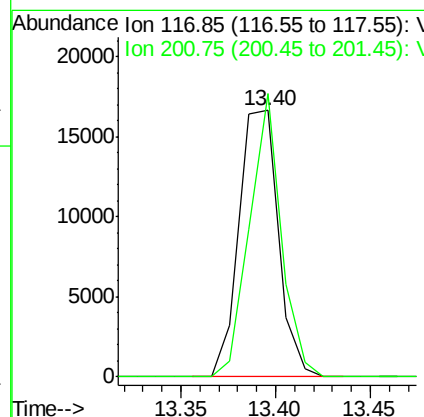
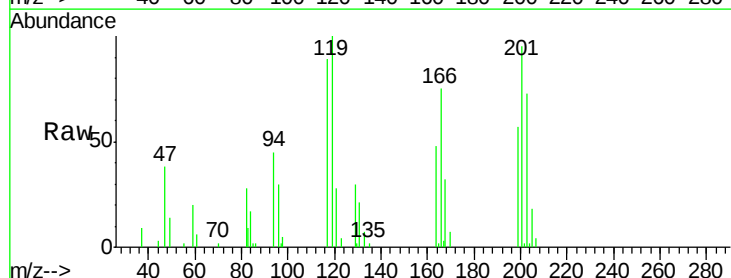
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

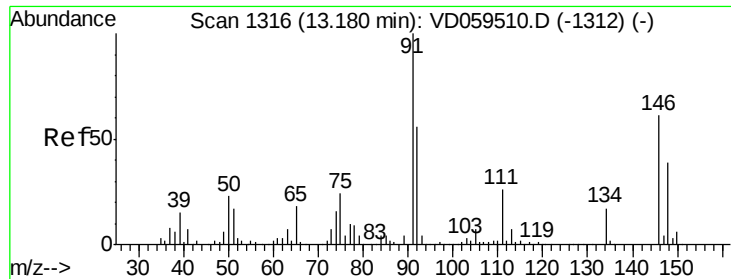
Tot Ion: 91 Resp: 115688
Ion Ratio Lower Upper
91 100
92 58.2 28.9 86.7
134 23.0 11.3 33.8



#90
Hexachloroethane
Concen: 4.62 ug/l
RT: 13.40 min Scan# 1338
Delta R.T. 0.01 min
Lab File: VD059507.D
Acq: 2 Jul 2018 17:06

Tgt Ion: 117 Resp: 23925
Ion Ratio Lower Upper
117 100
201 106.2 35.2 105.6#

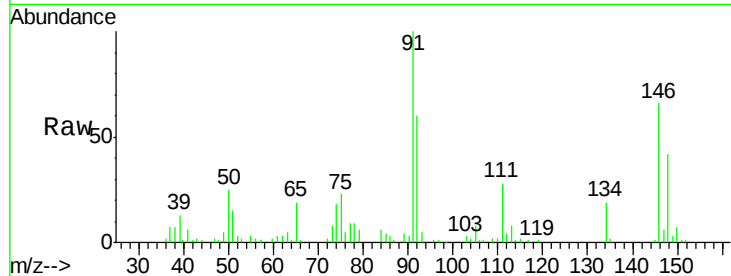




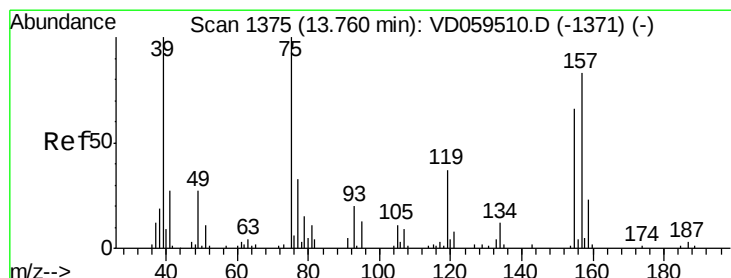
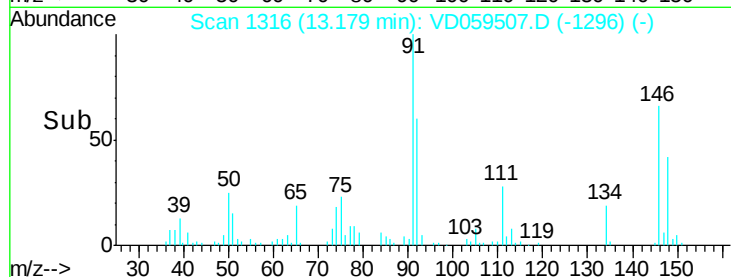
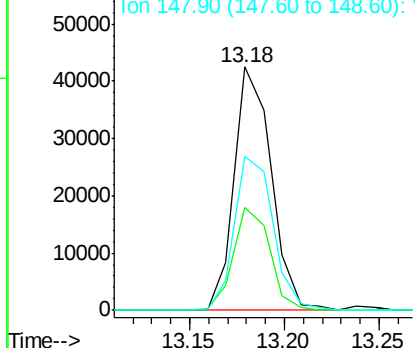
#91
 1,2-Dichlorobenzene
 Concen: 5.58 ug/l
 RT: 13.18 min Scan# 1316
 Delta R.T. -0.00 min
 Lab File: VD059507.D
 Acq: 2 Jul 2018 17:06

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC005

Tot Ion:146 Resp: 57343
 Ion Ratio Lower Upper
 146 100
 111 42.0 21.3 63.9
 148 63.2 32.4 97.0

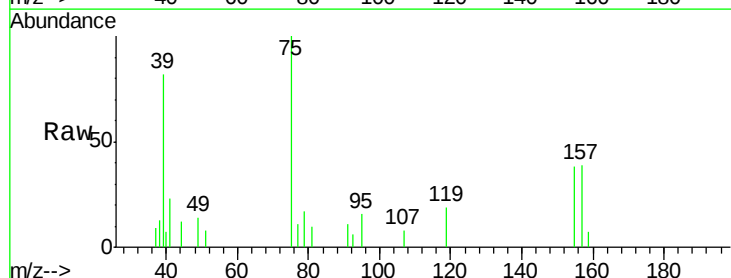


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

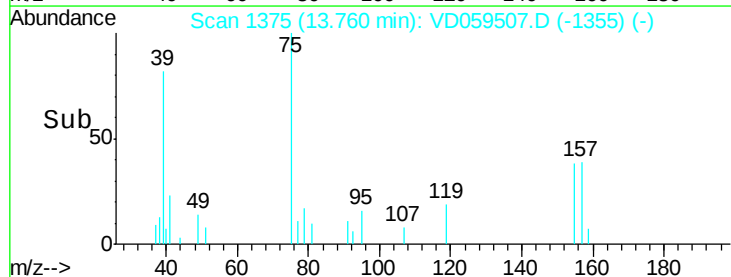
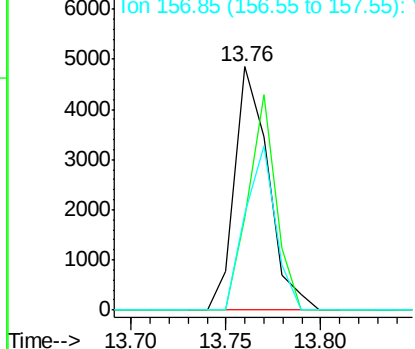


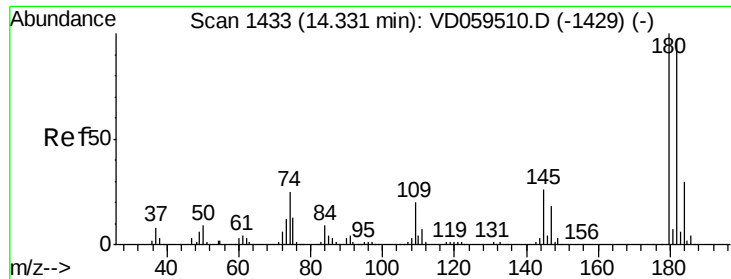
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 6.35 ug/l
 RT: 13.76 min Scan# 1375
 Delta R.T. -0.00 min
 Lab File: VD059507.D
 Acq: 2 Jul 2018 17:06

Tgt Ion: 75 Resp: 5948
 Ion Ratio Lower Upper
 75 100
 155 37.8 32.8 98.4
 157 39.4 41.5 124.5#



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

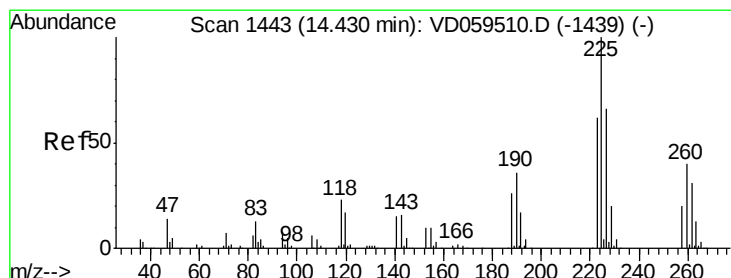
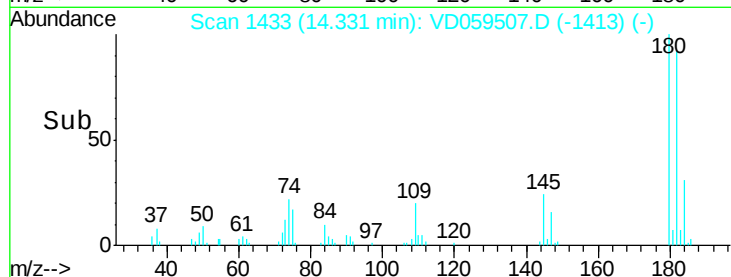
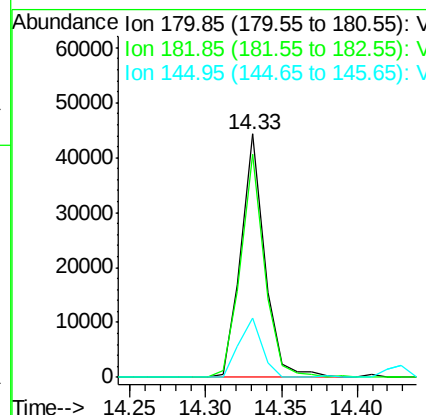
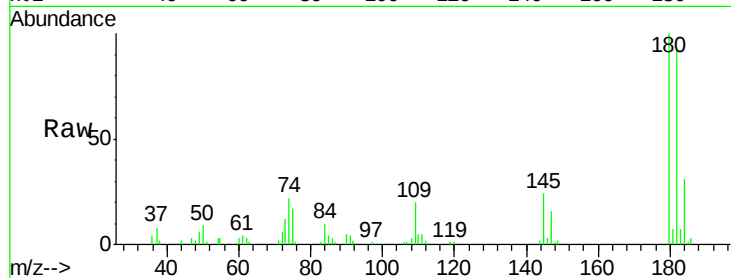




#93
 1,2,4-Trichlorobenzene
 Concen: 5.35 ug/l
 RT: 14.33 min Scan# 1433
 Delta R.T. -0.00 min
 Lab File: VD059507.D
 Acq: 2 Jul 2018 17:06

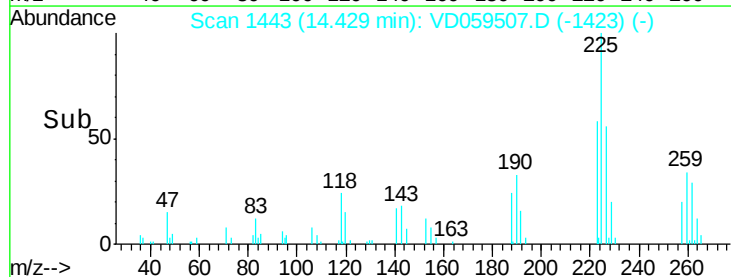
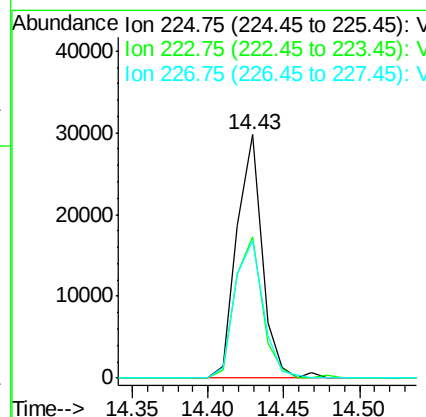
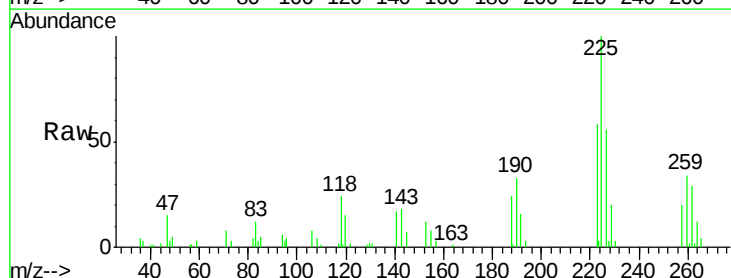
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC005

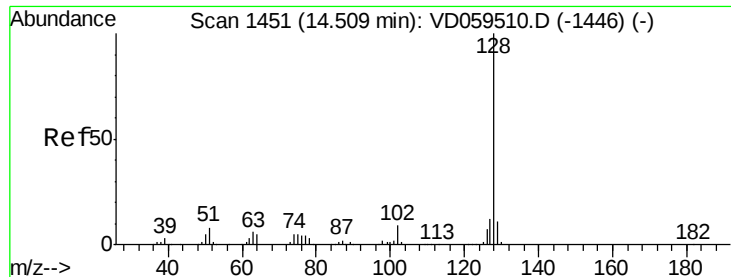
Tot Ion:180 Resp: 48639
 Ion Ratio Lower Upper
 180 100
 182 91.9 48.7 146.1
 145 24.2 13.2 39.6



#94
 Hexachlorobutadiene
 Concen: 4.95 ug/l
 RT: 14.43 min Scan# 1443
 Delta R.T. -0.00 min
 Lab File: VD059507.D
 Acq: 2 Jul 2018 17:06

Tgt Ion:225 Resp: 34734
 Ion Ratio Lower Upper
 225 100
 223 57.9 31.0 93.0
 227 56.3 33.1 99.5

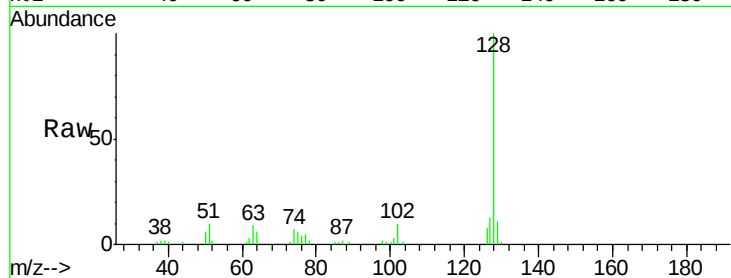




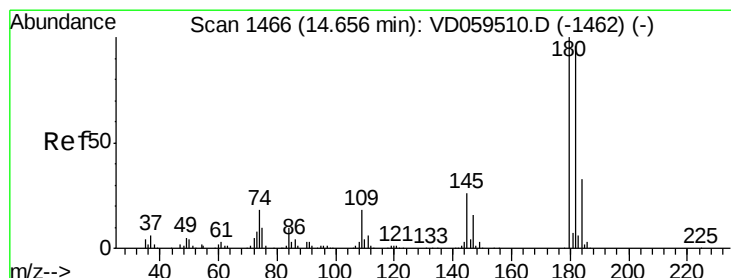
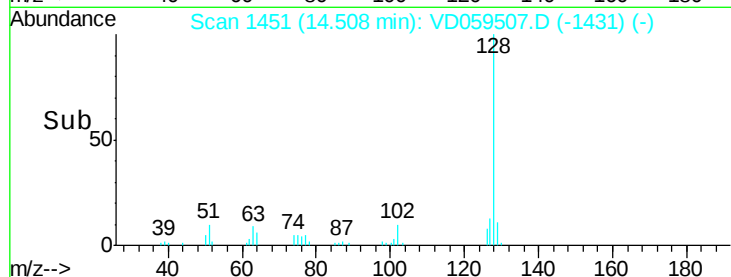
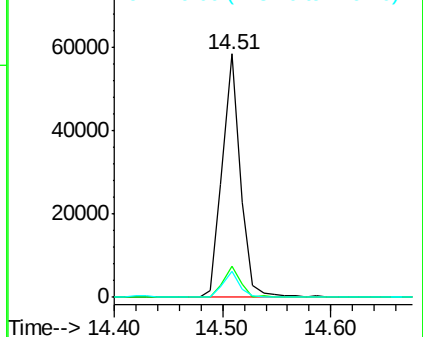
#95
Naphthalene
Concen: 5.08 ug/l
RT: 14.51 min Scan# 1451
Delta R.T. -0.00 min
Lab File: VD059507.D
Acq: 2 Jul 2018 17:06

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

Tot Ion:128 Resp: 68352
Ion Ratio Lower Upper
128 100
127 13.0 9.8 14.8
129 10.5 8.6 12.8

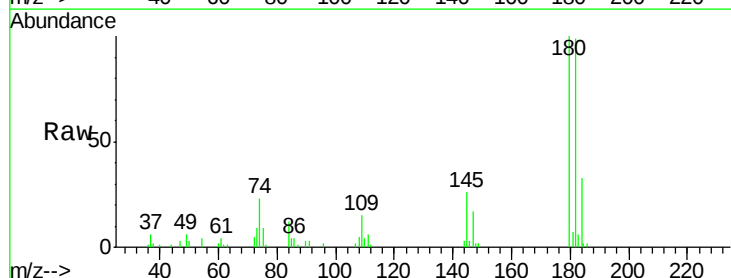


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 4.83 ug/l
RT: 14.66 min Scan# 1466
Delta R.T. -0.00 min
Lab File: VD059507.D
Acq: 2 Jul 2018 17:06

Tgt Ion:180 Resp: 39231
Ion Ratio Lower Upper
180 100
182 99.0 48.1 144.4
145 26.4 13.2 39.6



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

