

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062418\
 Data File : VD058368.D
 Acq On : 24 Jun 2018 13:32
 Operator : VA/AP
 Sample : J3671-10
 Misc : 6.02g/5ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 25 04:01:23 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 20 05:52:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	762790	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	6.71	114	983095	50.00	ug/l	0.02
63) Chlorobenzene-d5	10.70	117	786940	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.92	152	401473	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	383725	49.80	ug/l	0.02
Spiked Amount				50.000		
			Recovery	=	99.60%	
35) Dibromofluoromethane	5.57	113	376927	47.11	ug/l	0.02
Spiked Amount				50.000		
			Recovery	=	94.22%	
50) Toluene-d8	8.72	98	908192	46.92	ug/l	0.01
Spiked Amount				50.000		
			Recovery	=	93.84%	
62) 4-Bromofluorobenzene	11.94	95	384566	48.63	ug/l	0.01
Spiked Amount				50.000		
			Recovery	=	97.26%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.35	85	277	Below Cal	#	43
3) Chloromethane	1.49	50	1745	Below Cal	#	43
4) Vinyl Chloride	1.56	62	1827631	457.375	ug/l	97
6) Chloroethane	1.86	64	662	1.783	ug/l #	41
11) Tert butyl alcohol	3.23	59	1636	6.438	ug/l #	78
12) 1,1-Dichloroethene	2.56	96	656083	250.353	ug/l	99
13) Acrolein	2.53	56	198	1.365	ug/l #	11
15) Acrylonitrile	3.40	53	4300	6.382	ug/l #	13
16) Acetone	2.63	43	54338	51.570	ug/l	98
18) Methyl Acetate	3.08	43	250780	111.599	ug/l #	65
20) Methylene Chloride	3.08	84	30608	7.032	ug/l	96
21) trans-1,2-Dichloroethene	3.41	96	833715	291.093	ug/l	91
24) 1,1-Dichloroethane	3.99	63	683175	52.347	ug/l	100
25) 2-Butanone	4.89	43	5546	2.415	ug/l #	1
27) cis-1,2-Dichloroethene	4.81	96	23948563	3346.115	ug/l	86
29) Tetrahydrofuran	5.22	42	3034	2.482	ug/l #	51
30) Chloroform	5.35	83	112355	8.155	ug/l	98
31) Cyclohexane	5.61	56	270112	25.997	ug/l	92
36) 1,1-Dichloropropene	5.66	75	58013	5.965	ug/l #	50
38) Carbon Tetrachloride	5.66	117	62159	6.433	ug/l #	14
39) Methylcyclohexane	7.30	83	425996	44.971	ug/l	99
40) Benzene	6.03	78	599658	25.884	ug/l	99
41) Methacrylonitrile	5.22	41	3534	1.321	ug/l #	57
42) 1,2-Dichloroethane	6.15	62	18846	2.017	ug/l #	60
43) Isopropyl Acetate	7.67	43	14024	1.898	ug/l #	76
44) Trichloroethene	7.00	130	6666146	958.258	ug/l	97
45) 1,2-Dichloropropane	7.30	63	7241	1.161	ug/l #	1
48) Methyl methacrylate	7.56	41	18556	4.133	ug/l #	67
49) 1,4-Dioxane	7.04	88	302	7.451	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	6298	1.307	ug/l #	88
52) Toluene	8.81	92	141452	10.723	ug/l	100
55) 1,1,2-Trichloroethane	9.47	97	60134	12.884	ug/l	96
56) Ethyl methacrylate	9.38	69	10000	1.792	ug/l #	1
59) 2-Hexanone	9.76	43	75492	21.681	ug/l #	37

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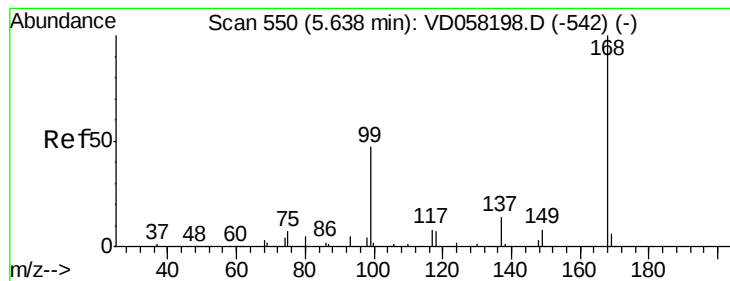
Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 25 04:01:23 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

64) Tetrachloroethene	9.52	164	254117	38.378	ug/l	96
65) Chlorobenzene	10.73	112	848889	57.669	ug/l	98
67) Ethyl Benzene	10.87	91	301611	11.606	ug/l	98
68) m/p-Xylenes	11.03	106	36325	4.192	ug/l	95
73) Isopropylbenzene	11.78	105	127660	5.316	ug/l	99
74) N-amyl acetate	11.60	43	29120	3.136	ug/l #	46
75) 1,1,2,2-Tetrachloroethane	12.09	83	14725	2.635	ug/l #	37
78) n-propylbenzene	12.16	91	262269	8.457	ug/l	96
79) 2-Chlorotoluene	12.24	91	68472	3.858	ug/l #	45
80) 1,3,5-Trimethylbenzene	12.33	105	170571	9.107	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.93	75	179800	125.769	ug/l #	2
82) 4-Chlorotoluene	12.33	91	21237	Below Cal	#	45
83) tert-Butylbenzene	12.58	119	27349	1.270	ug/l	98
84) 1,2,4-Trimethylbenzene	12.63	105	116854	5.739	ug/l	99
85) sec-Butylbenzene	12.76	105	165923	6.574	ug/l	95
86) p-Isopropyltoluene	12.89	119	121213	5.926	ug/l	96
87) 1,3-Dichlorobenzene	12.85	146	186946	14.957	ug/l	99
88) 1,4-Dichlorobenzene	12.94	146	348039	28.516	ug/l	97
89) n-Butylbenzene	13.20	91	330258	15.363	ug/l	94
90) Hexachloroethane	13.38	117	50176	9.451	ug/l #	1
91) 1,2-Dichlorobenzene	13.20	146	663452	62.377	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.75	75	6296	7.079	ug/l #	1
95) Naphthalene	14.52	128	532884	39.768	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 552

Delta R.T. 0.02 min

Lab File: VD058368.D

Acq: 24 Jun 2018 13:32

Instrument :

MSVOA_D

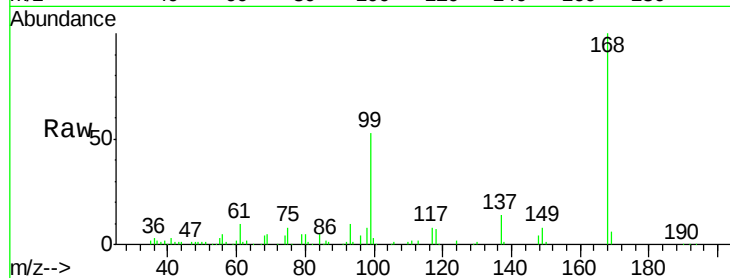
ClientSampleId :

Tot Ion:168 Resp: 762790

Ion Ratio Lower Upper

168 100

99 53.2 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

5.66

300000

250000

200000

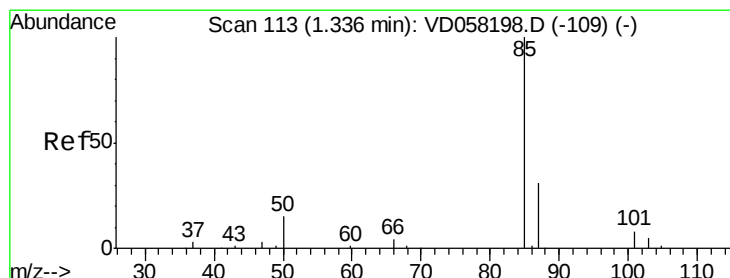
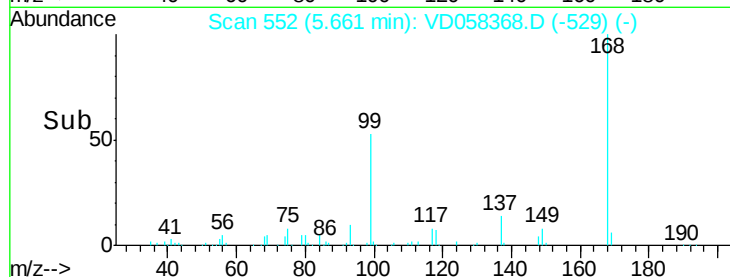
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.35 min Scan# 114

Delta R.T. 0.01 min

Lab File: VD058368.D

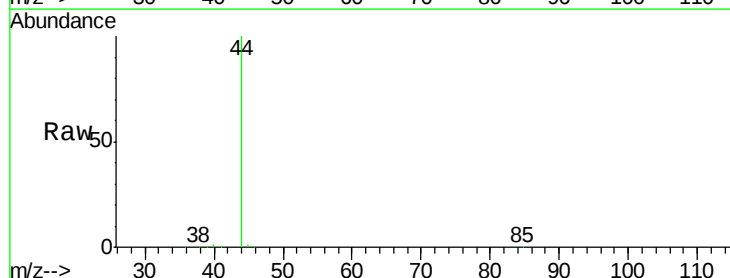
Acq: 24 Jun 2018 13:32

Tgt Ion: 85 Resp: 277

Ion Ratio Lower Upper

85 100

87 0.0 15.7 47.0#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.35

500

400

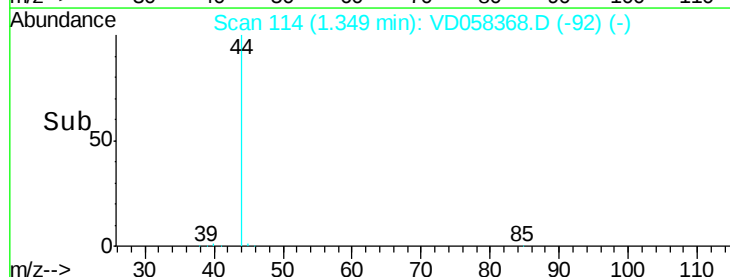
300

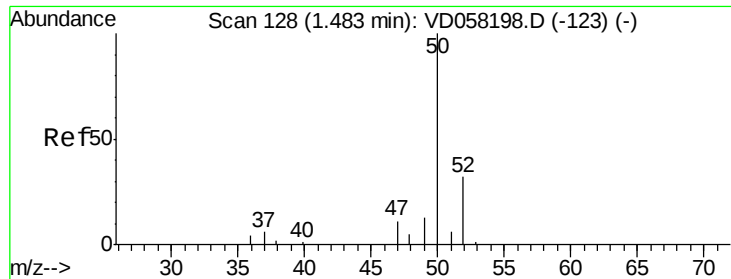
200

100

0

Time--> 1.32 1.34 1.36 1.38





#3

Chloromethane

Concen: Below Cal

RT: 1.49 min Scan# 128

Delta R.T. 0.00 min

Lab File: VD058368.D

Acq: 24 Jun 2018 13:32

Instrument :

MSVOA_D

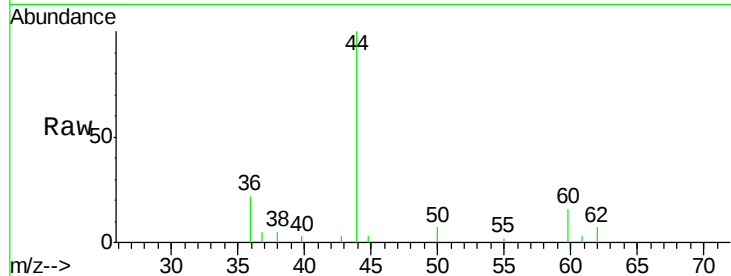
ClientSampleId :

Tot Ion: 50 Resp: 1745

Ion Ratio Lower Upper

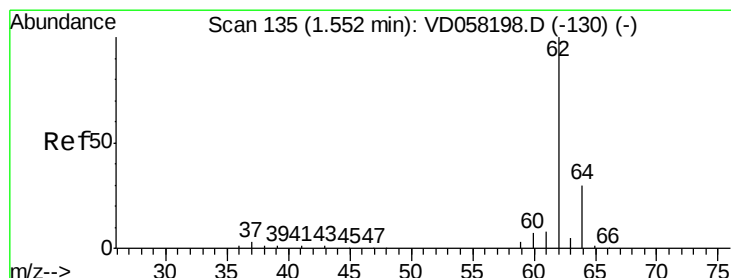
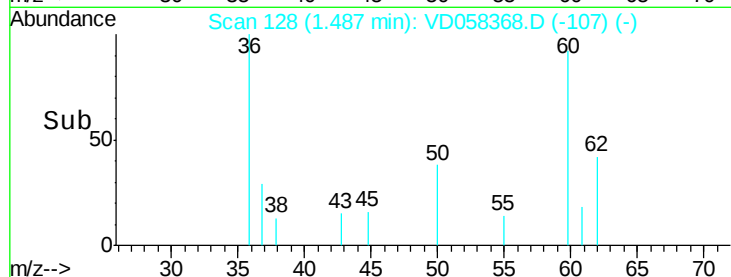
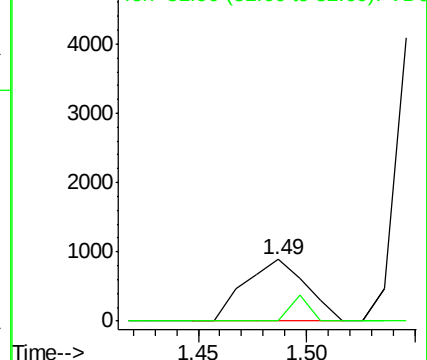
50 100

52 0.0 25.0 37.4#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 457.375 ug/l

RT: 1.56 min Scan# 135

Delta R.T. 0.00 min

Lab File: VD058368.D

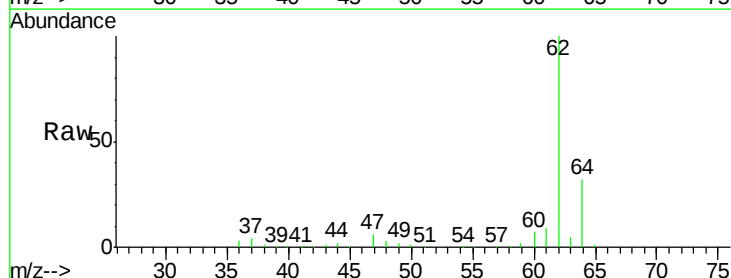
Acq: 24 Jun 2018 13:32

Tgt Ion: 62 Resp: 1827631

Ion Ratio Lower Upper

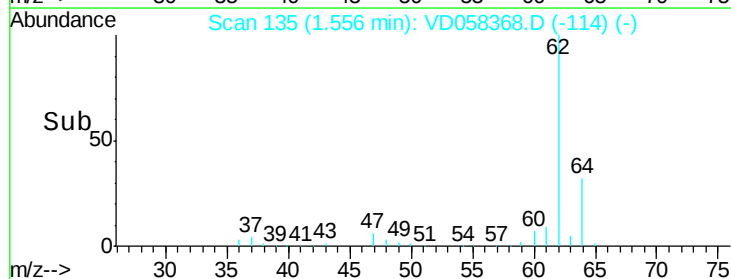
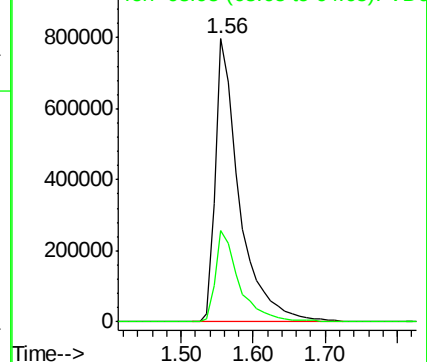
62 100

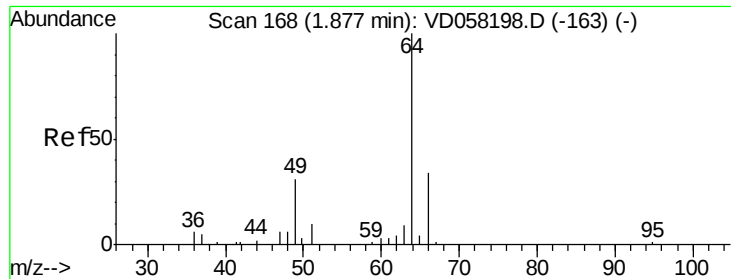
64 32.3 24.4 36.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#6

Chloroethane

Concen: 1.783 ug/l

RT: 1.86 min Scan# 166

Delta R.T. -0.02 min

Lab File: VD058368.D

Acq: 24 Jun 2018 13:32

Instrument :

MSVOA_D

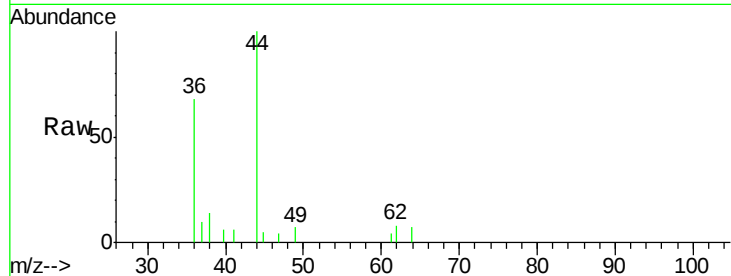
ClientSampleId :

Tot Ion: 64 Resp: 662

Ion Ratio Lower Upper

64 100

66 0.0 27.3 40.9#

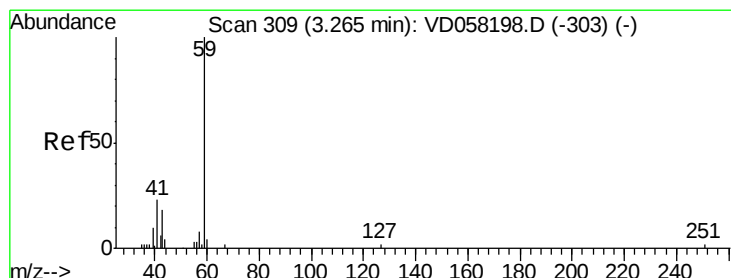
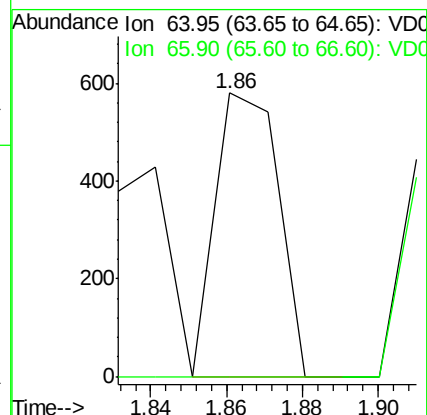
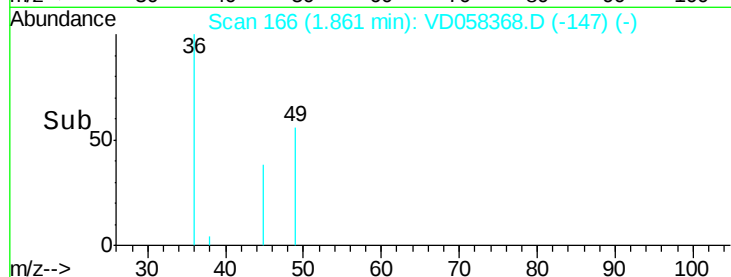


Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC

1.86

Time-->



#11

Tert butyl alcohol

Concen: 6.438 ug/l

RT: 3.23 min Scan# 305

Delta R.T. -0.04 min

Lab File: VD058368.D

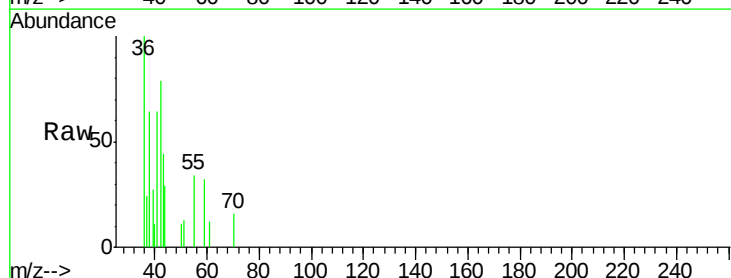
Acq: 24 Jun 2018 13:32

Tgt Ion: 59 Resp: 1636

Ion Ratio Lower Upper

59 100

57 0.0 6.2 9.4#

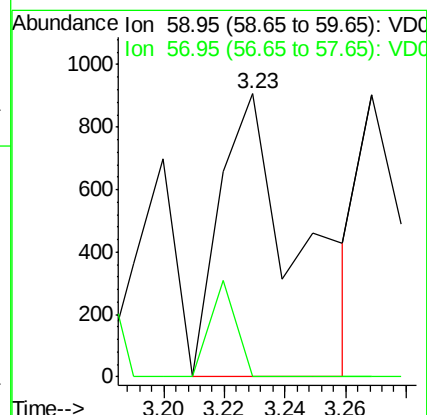
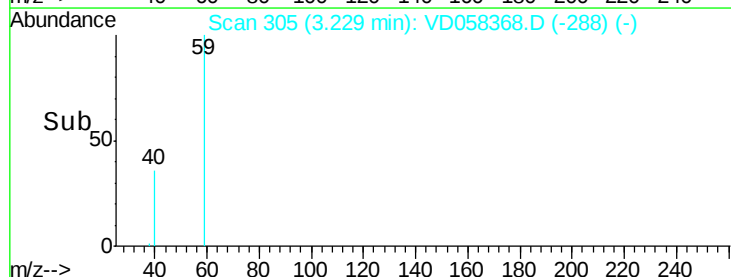


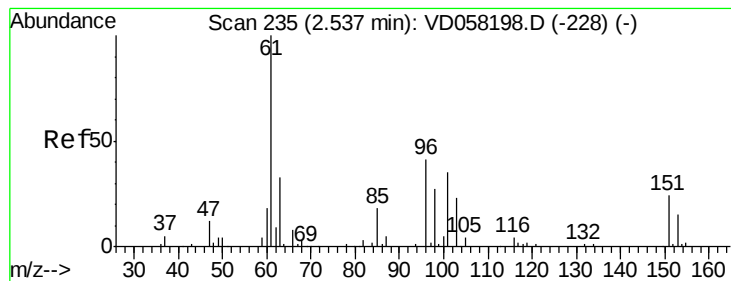
Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

3.23

Time-->





#12

1,1-Dichloroethene

Concen: 250.353 ug/l

RT: 2.56 min Scan# 237

Delta R.T. 0.02 min

Lab File: VD058368.D

Acq: 24 Jun 2018 13:32

Instrument :
MSVOA_D
ClientSampled :

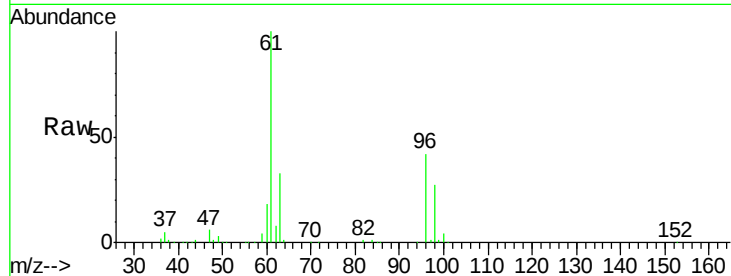
Tot Ion: 96 Resp: 656083

Ion Ratio Lower Upper

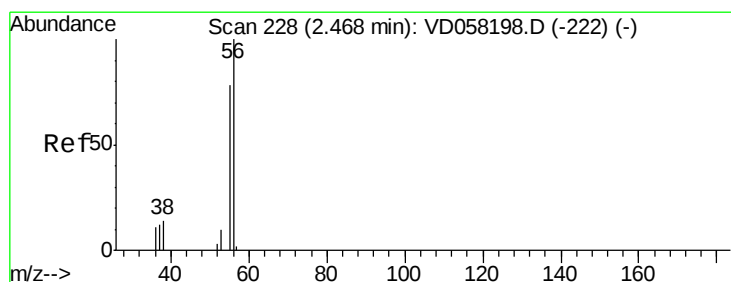
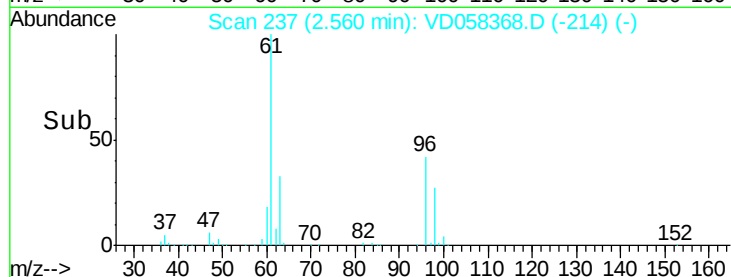
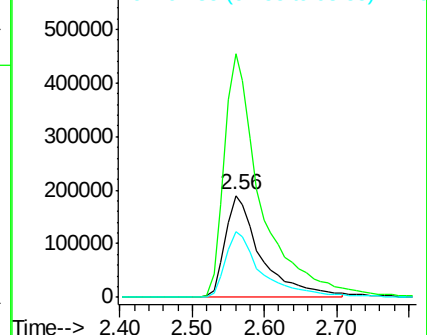
96 100

61 239.6 193.9 290.9

98 64.9 51.7 77.5



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



#13

Acrolein

Concen: 1.365 ug/l

RT: 2.53 min Scan# 234

Delta R.T. 0.06 min

Lab File: VD058368.D

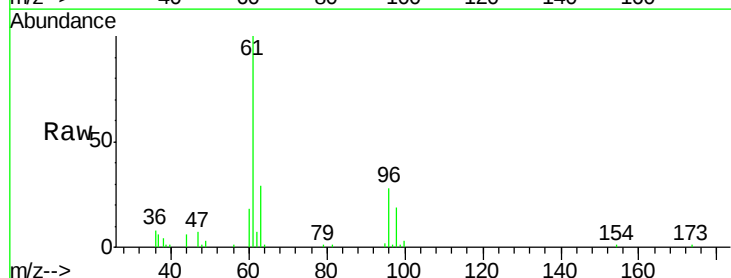
Acq: 24 Jun 2018 13:32

Tgt Ion: 56 Resp: 198

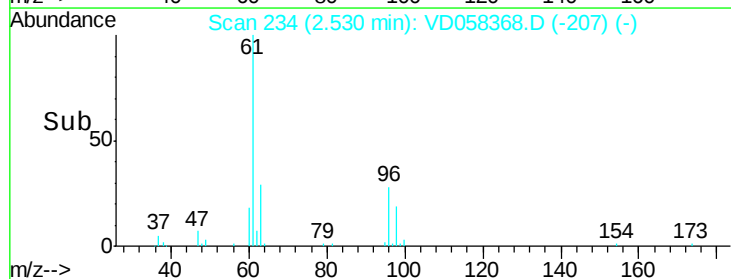
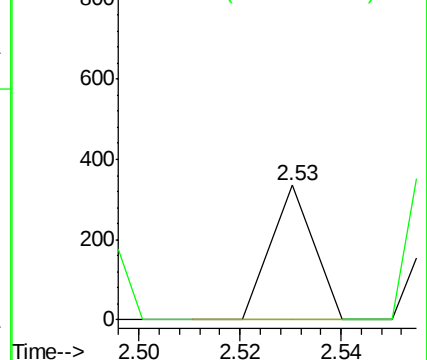
Ion Ratio Lower Upper

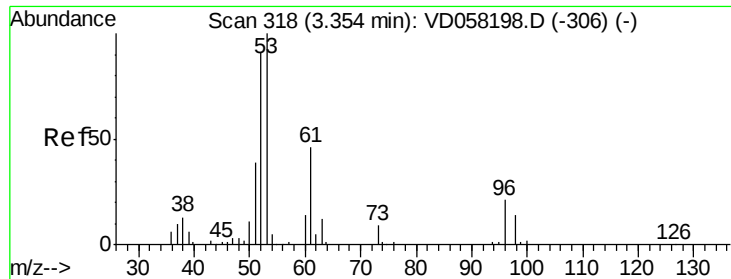
56 100

55 0.0 62.1 93.1#



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 55.00 (54.70 to 55.70): VDC





#15

Acrylonitrile

Concen: 6.382 ug/l

RT: 3.40 min Scan# 322

Delta R.T. 0.04 min

Lab File: VD058368.D

Acq: 24 Jun 2018 13:32

Instrument :
MSVOA_D
ClientSampleId :

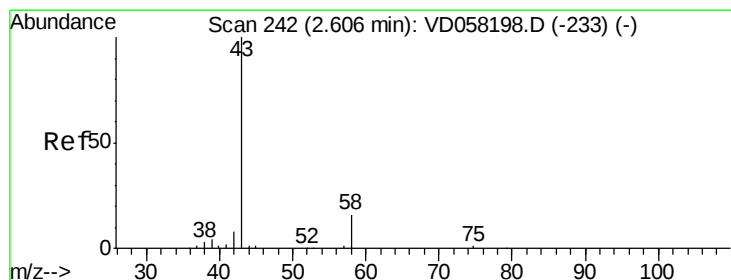
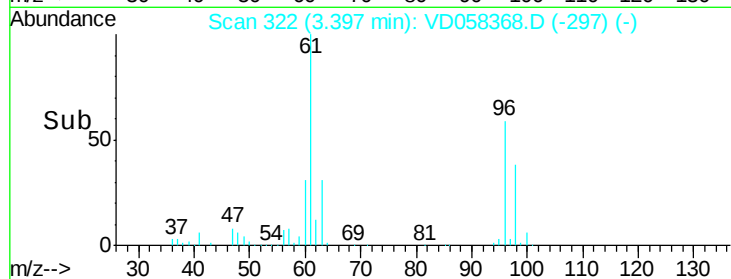
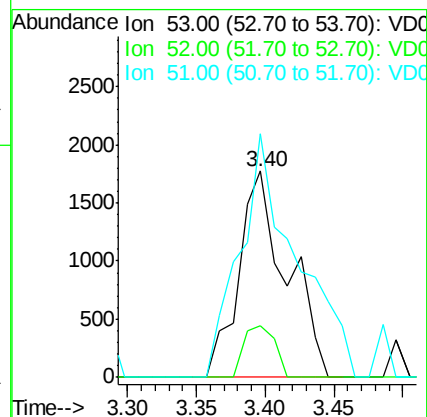
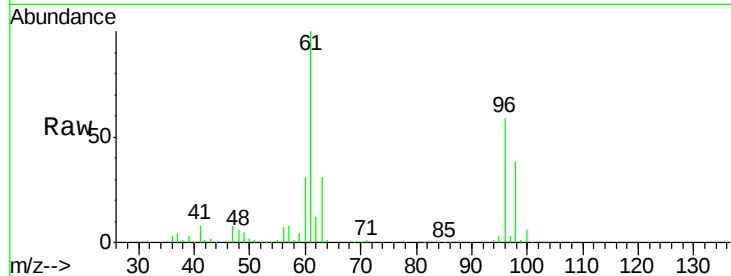
Tot Ion: 53 Resp: 4300

Ion Ratio Lower Upper

53 100

52 24.7 72.6 108.8#

51 118.0 32.2 48.4#



#16

Acetone

Concen: 51.570 ug/l

RT: 2.63 min Scan# 244

Delta R.T. 0.02 min

Lab File: VD058368.D

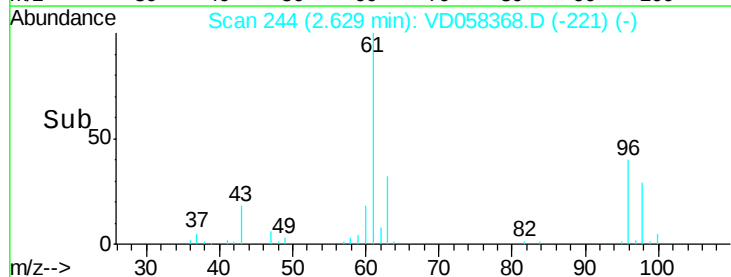
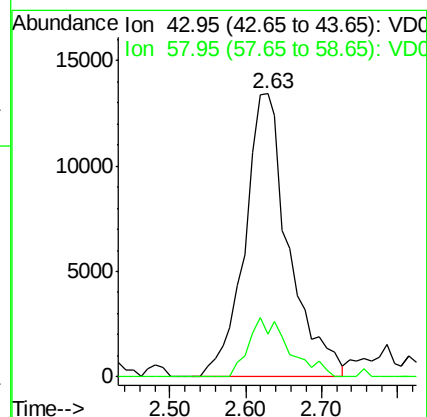
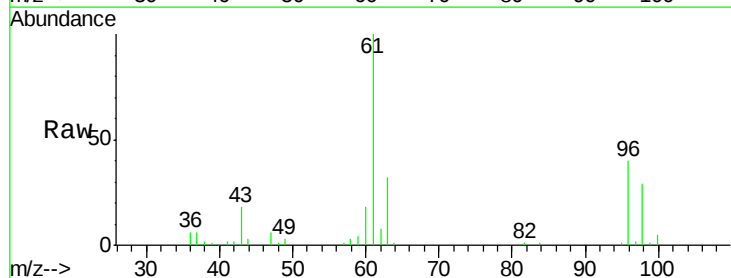
Acq: 24 Jun 2018 13:32

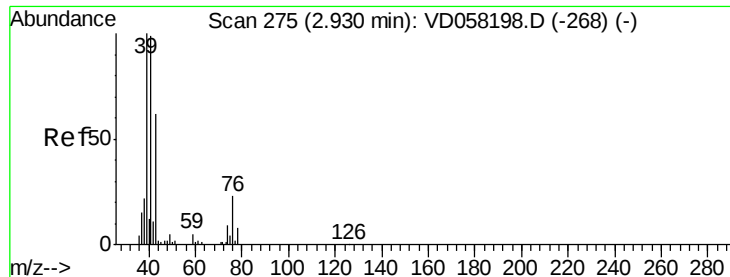
Tgt Ion: 43 Resp: 54338

Ion Ratio Lower Upper

43 100

58 15.1 12.7 19.1

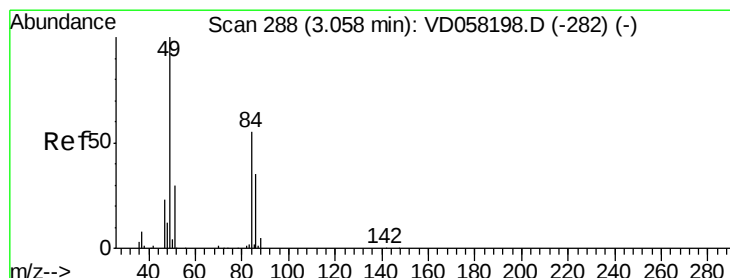
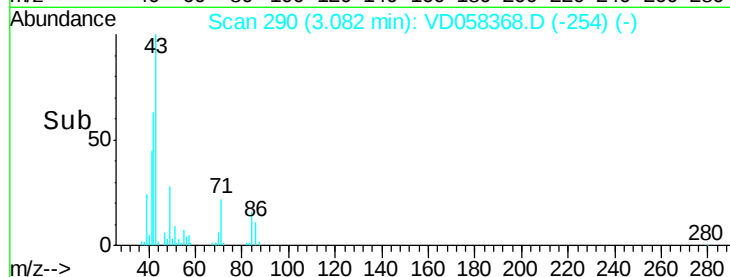
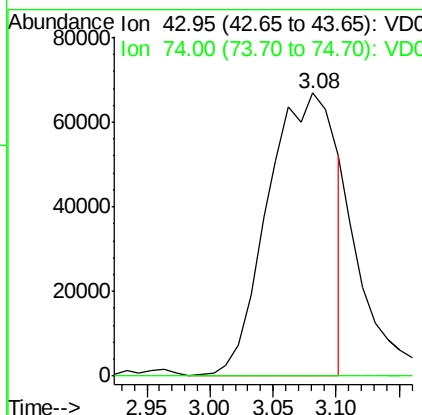
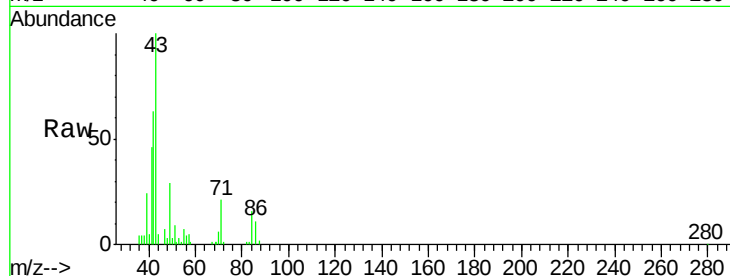




#18
Methyl Acetate
Concen: 111.599 ug/l
RT: 3.08 min Scan# 290
Delta R.T. 0.15 min
Lab File: VD058368.D
Acq: 24 Jun 2018 13:32

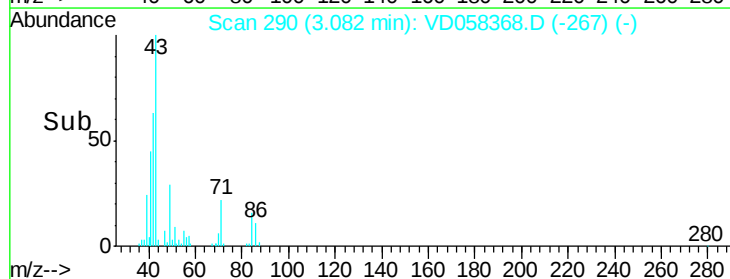
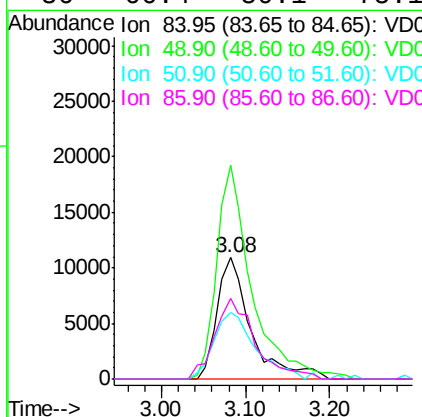
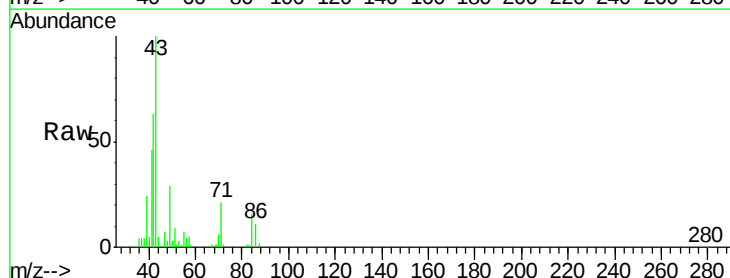
Instrument :
MSVOA_D
ClientSampleId :

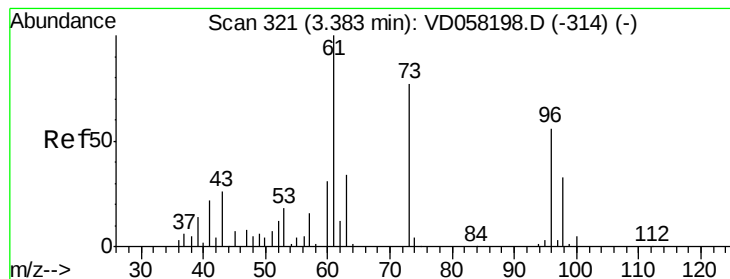
Tot Ion: 43 Resp: 250780
Ion Ratio Lower Upper
43 100
74 0.0 11.7 17.5#



#20
Methylene Chloride
Concen: 7.032 ug/l
RT: 3.08 min Scan# 290
Delta R.T. 0.02 min
Lab File: VD058368.D
Acq: 24 Jun 2018 13:32

Tgt Ion: 84 Resp: 30608
Ion Ratio Lower Upper
84 100
49 175.8 145.0 217.6
51 54.5 42.9 64.3
86 66.4 50.1 75.1





#21

trans-1,2-Dichloroethene

Concen: 291.093 ug/l

RT: 3.41 min Scan# 323

Delta R.T. 0.02 min

Lab File: VD058368.D

Acq: 24 Jun 2018 13:32

Instrument :

MSVOA_D

ClientSampled :

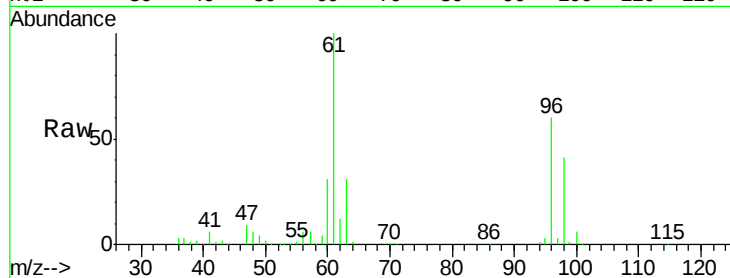
Tot Ion: 96 Resp: 833715

Ion Ratio Lower Upper

96 100

61 167.1 143.8 215.6

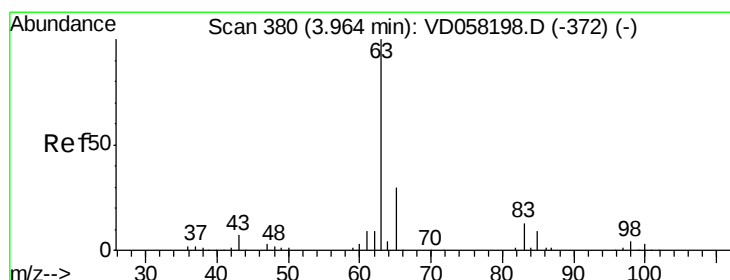
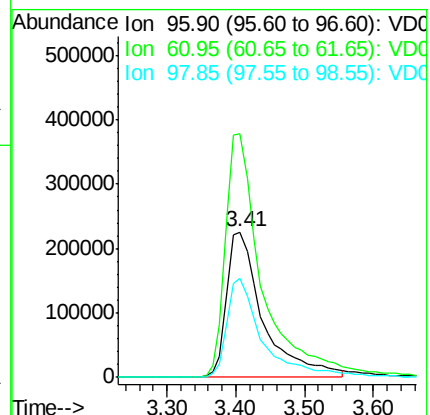
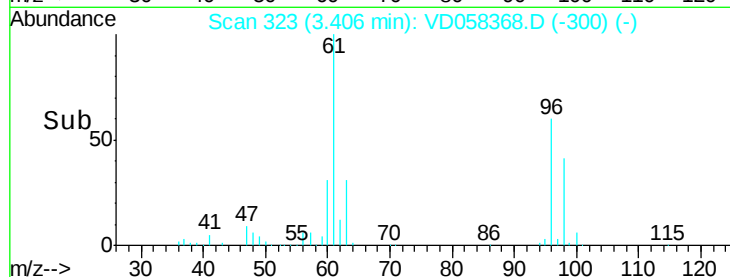
98 68.0 48.0 72.0



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



#24

1,1-Dichloroethane

Concen: 52.347 ug/l

RT: 3.99 min Scan# 382

Delta R.T. 0.02 min

Lab File: VD058368.D

Acq: 24 Jun 2018 13:32

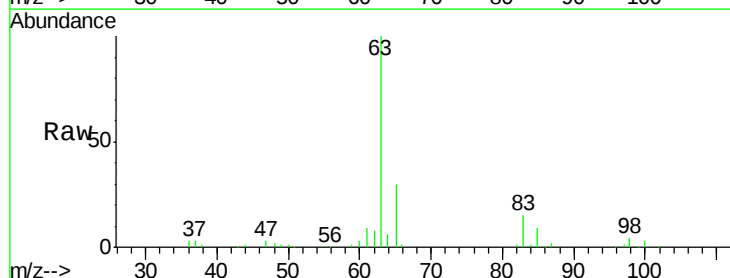
Tgt Ion: 63 Resp: 683175

Ion Ratio Lower Upper

63 100

98 4.0 1.9 5.7

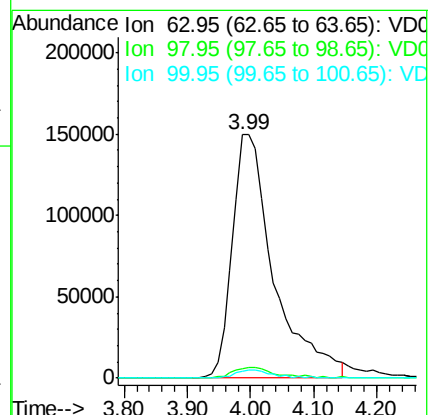
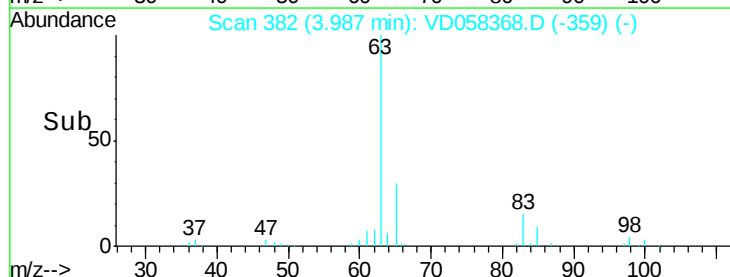
100 2.6 1.3 3.9

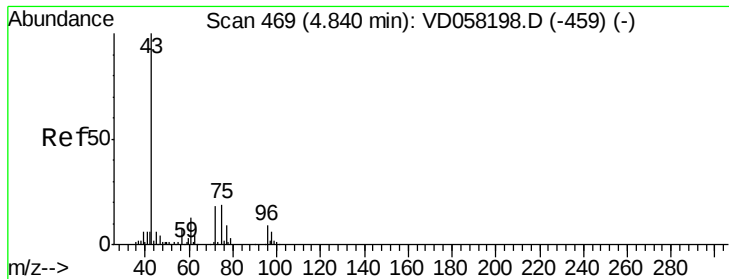


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 2.415 ug/l

RT: 4.89 min Scan# 474

Delta R.T. 0.05 min

Lab File: VD058368.D

Acq: 24 Jun 2018 13:32

Instrument :

MSVOA_D

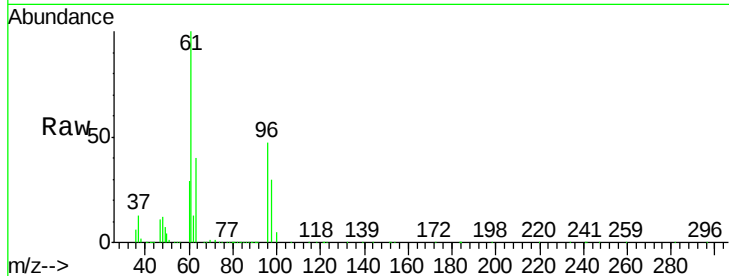
ClientSampleId :

Tot Ion: 43 Resp: 5546

Ion Ratio Lower Upper

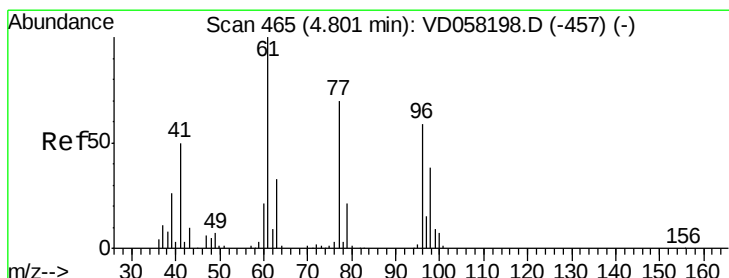
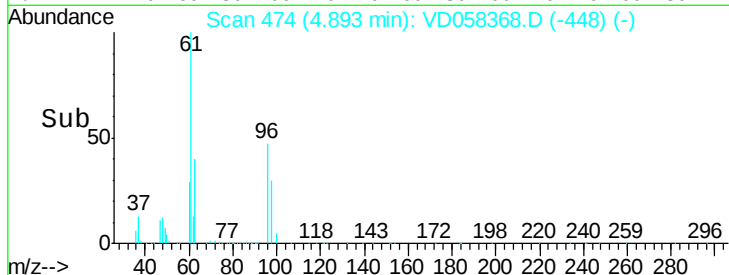
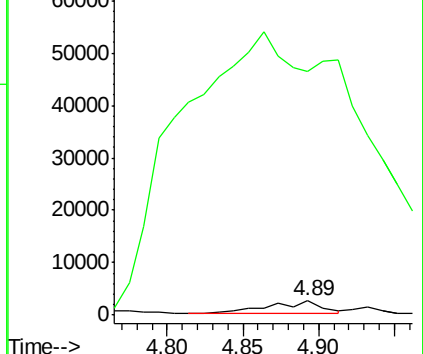
43 100

72 1744.1 14.1 21.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#27

cis-1,2-Dichloroethene

Concen: 3346.115 ug/l

RT: 4.81 min Scan# 466

Delta R.T. 0.01 min

Lab File: VD058368.D

Acq: 24 Jun 2018 13:32

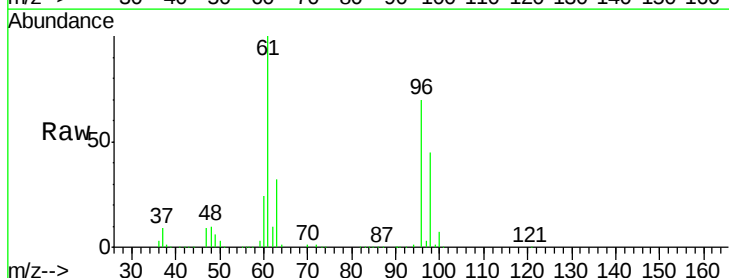
Tgt Ion: 96 Resp: 23948563

Ion Ratio Lower Upper

96 100

61 142.9 0.0 338.6

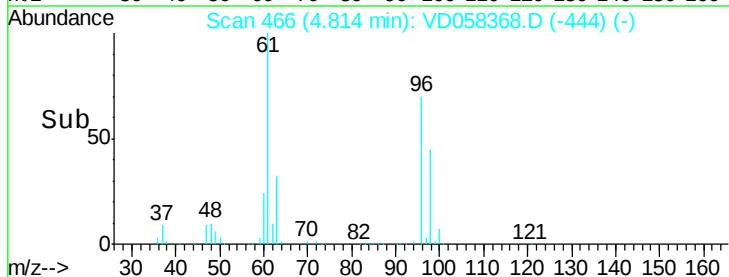
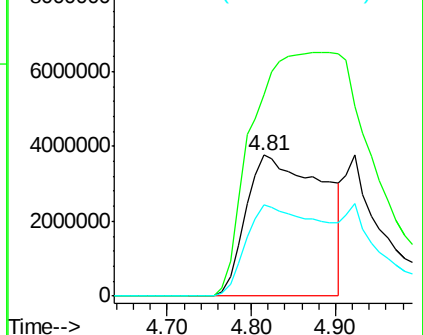
98 64.4 0.0 130.2

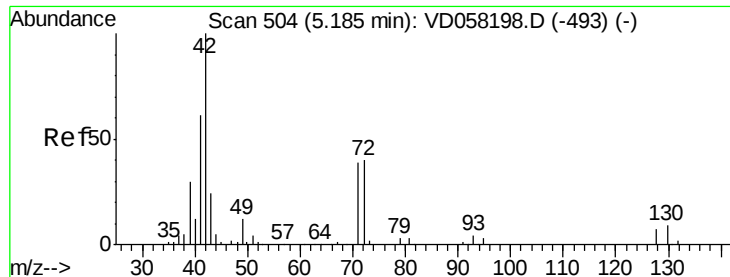


Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC

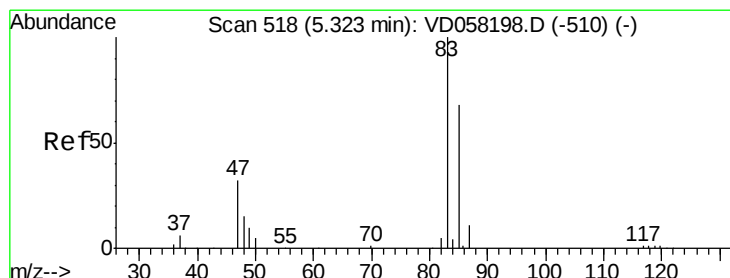
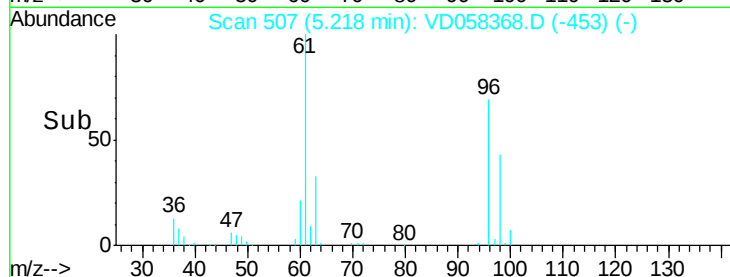
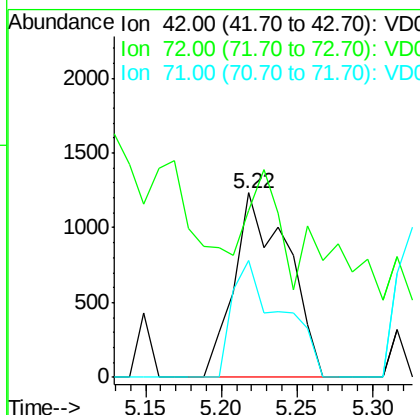
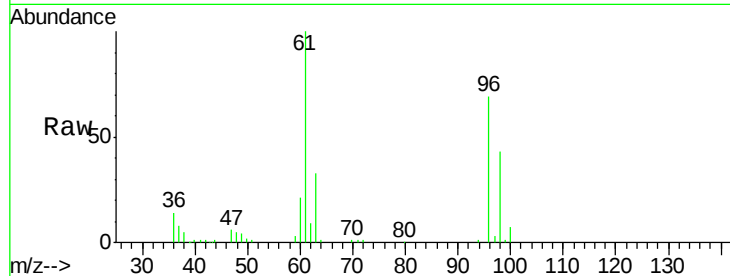




#29
Tetrahydrofuran
Concen: 2.482 ug/l
RT: 5.22 min Scan# 507
Delta R.T. 0.03 min
Lab File: VD058368.D
Acq: 24 Jun 2018 13:32

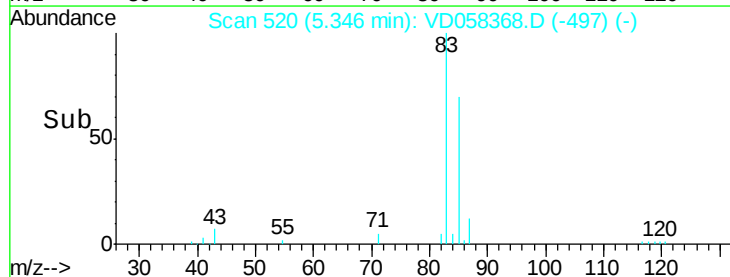
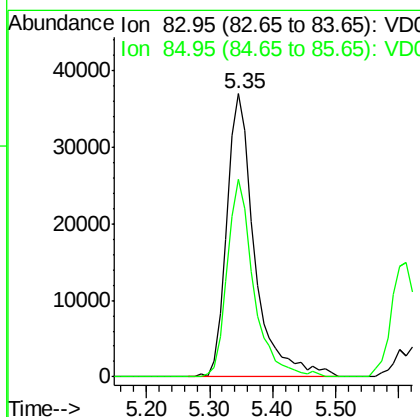
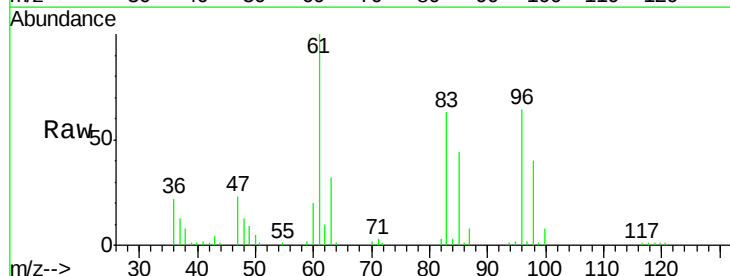
Instrument :
MSVOA_D
ClientSampleId :

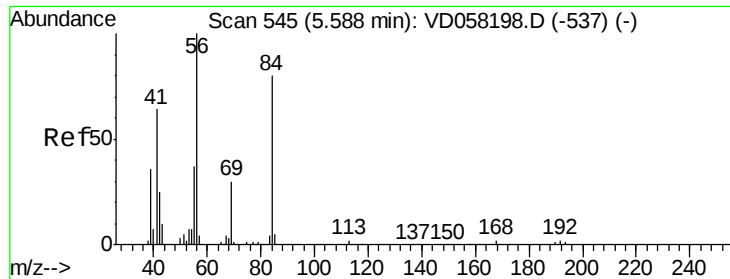
Tot Ion: 42 Resp: 3034
Ion Ratio Lower Upper
42 100
72 0.0 30.2 45.2#
71 58.4 30.1 45.1#



#30
Chloroform
Concen: 8.155 ug/l
RT: 5.35 min Scan# 520
Delta R.T. 0.02 min
Lab File: VD058368.D
Acq: 24 Jun 2018 13:32

Tgt Ion: 83 Resp: 112355
Ion Ratio Lower Upper
83 100
85 69.7 54.8 82.2

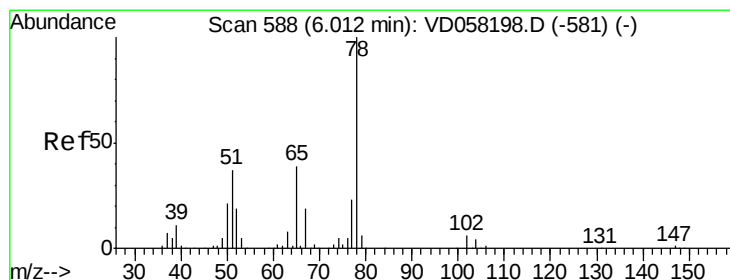
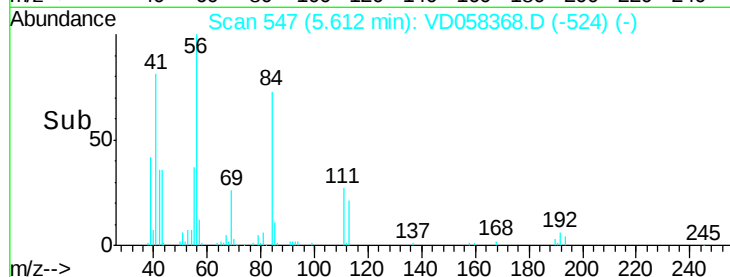
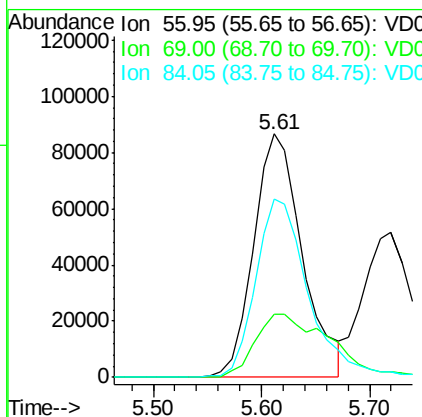
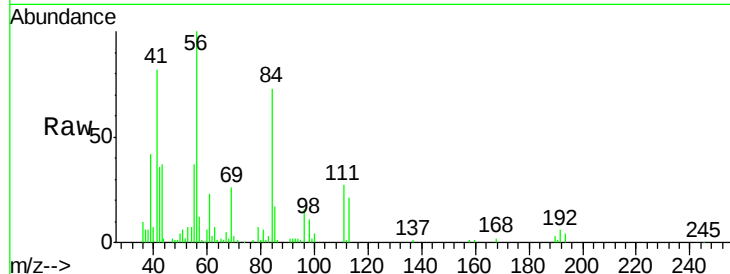




#31
Cyclohexane
Concen: 25.997 ug/l
RT: 5.61 min Scan# 547
Delta R.T. 0.02 min
Lab File: VD058368.D
Acq: 24 Jun 2018 13:32

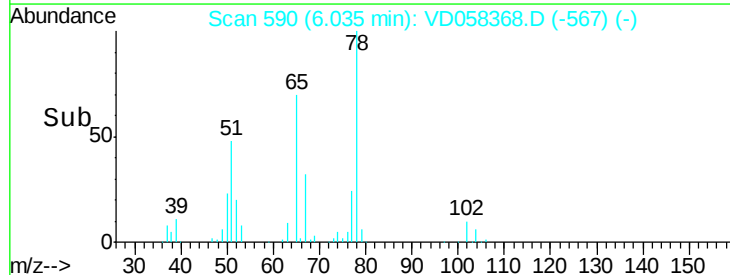
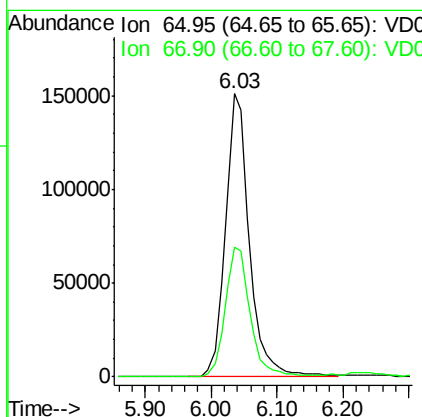
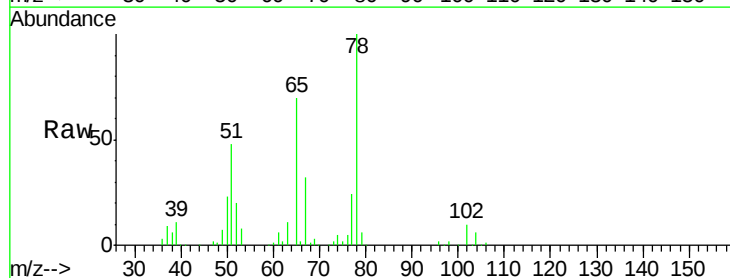
Instrument :
MSVOA_D
ClientSampleId :

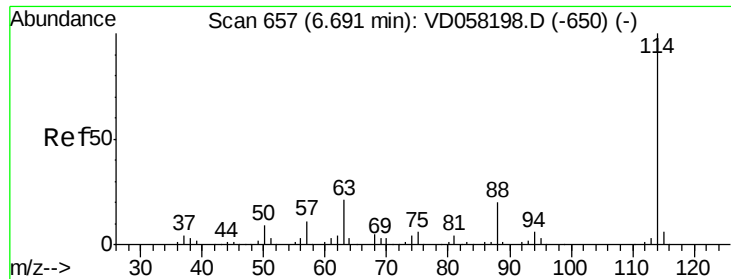
Tot Ion: 56 Resp: 270112
Ion Ratio Lower Upper
56 100
69 25.8 23.6 35.4
84 73.5 65.2 97.8



#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 6.03 min Scan# 590
Delta R.T. 0.02 min
Lab File: VD058368.D
Acq: 24 Jun 2018 13:32

Tgt Ion: 65 Resp: 383725
Ion Ratio Lower Upper
65 100
67 46.0 0.0 97.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.71 min Scan# 659

Delta R.T. 0.02 min

Lab File: VD058368.D

Acq: 24 Jun 2018 13:32

Instrument :

MSVOA_D

ClientSampleId :

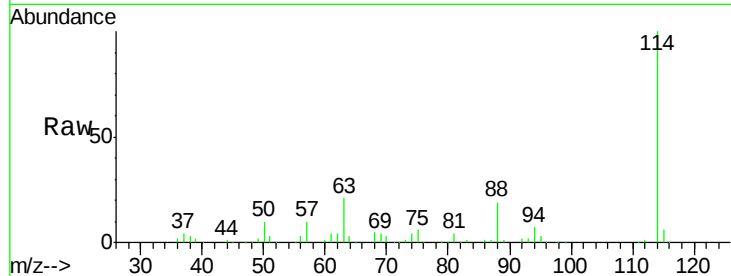
Tot Ion:114 Resp: 983095

Ion Ratio Lower Upper

114 100

63 21.3 0.0 42.6

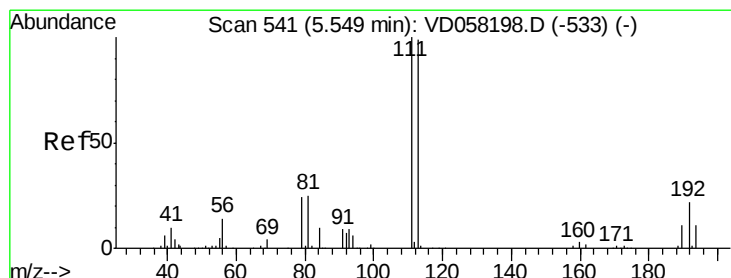
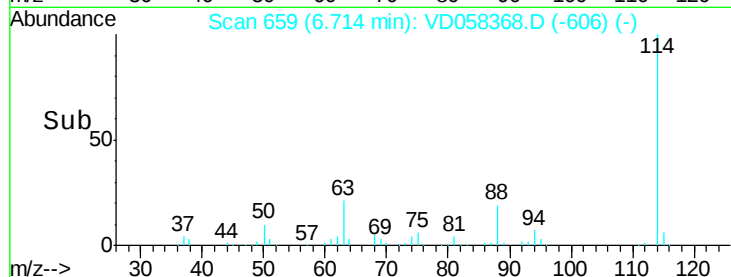
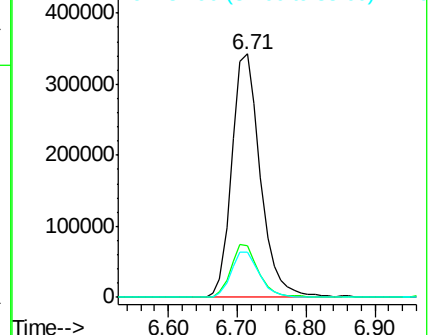
88 18.8 0.0 40.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 5.57 min Scan# 543

Delta R.T. 0.02 min

Lab File: VD058368.D

Acq: 24 Jun 2018 13:32

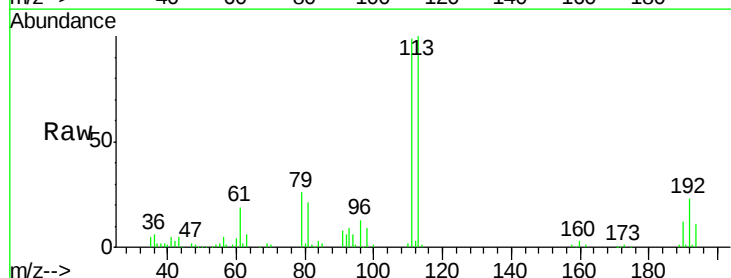
Tgt Ion:113 Resp: 376927

Ion Ratio Lower Upper

113 100

111 98.8 80.6 121.0

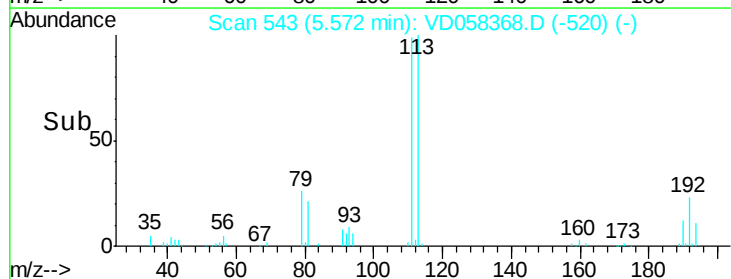
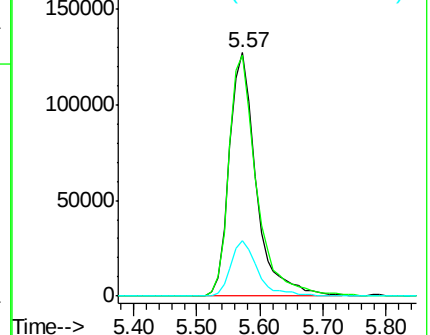
192 22.7 17.8 26.6

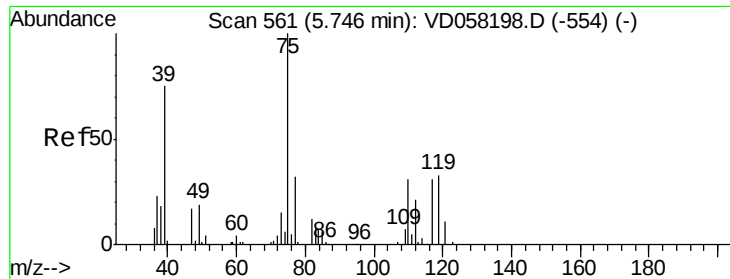


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 5.965 ug/l

RT: 5.66 min Scan# 552

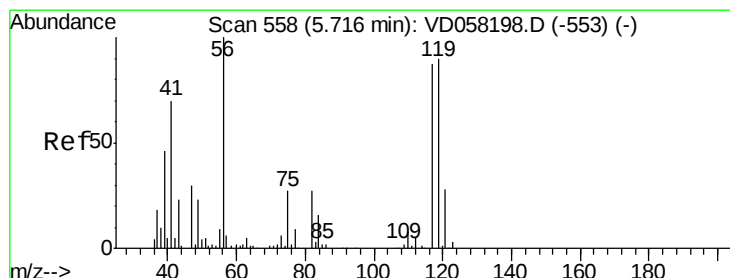
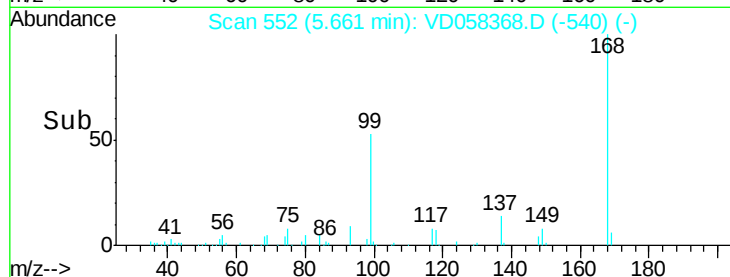
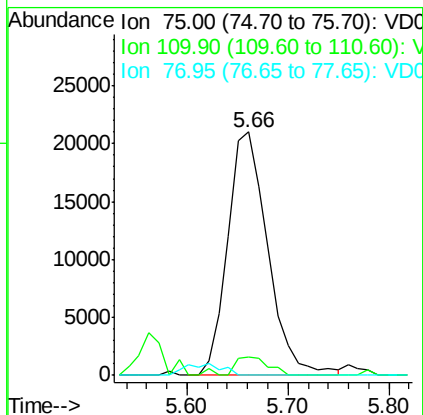
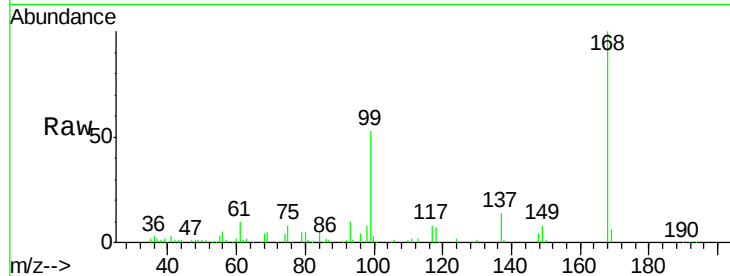
Delta R.T. -0.09 min

Lab File: VD058368.D

Acq: 24 Jun 2018 13:32

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 75 Resp: 58013
Ion Ratio Lower Upper
75 100
110 7.5 15.4 46.4#
77 0.0 25.4 38.2#



#38

Carbon Tetrachloride

Concen: 6.433 ug/l

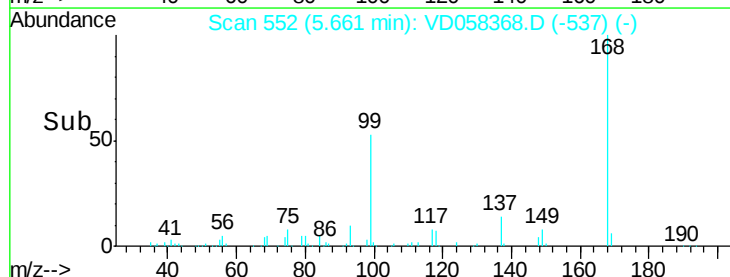
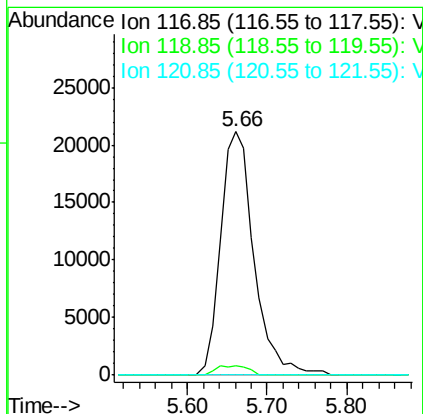
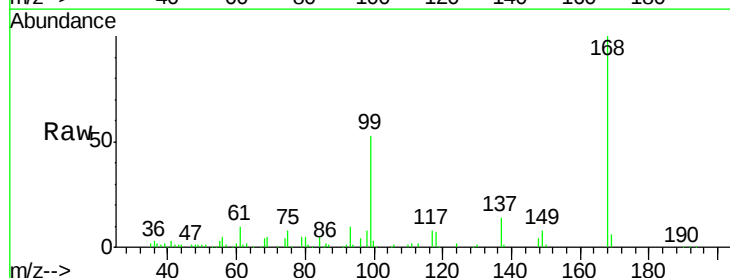
RT: 5.66 min Scan# 552

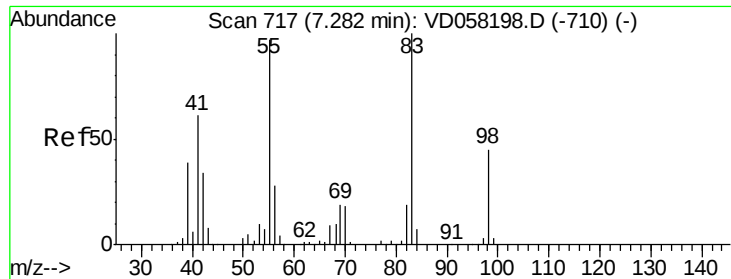
Delta R.T. -0.06 min

Lab File: VD058368.D

Acq: 24 Jun 2018 13:32

Tgt Ion: 117 Resp: 62159
Ion Ratio Lower Upper
117 100
119 3.7 78.8 118.2#
121 0.0 25.0 37.6#

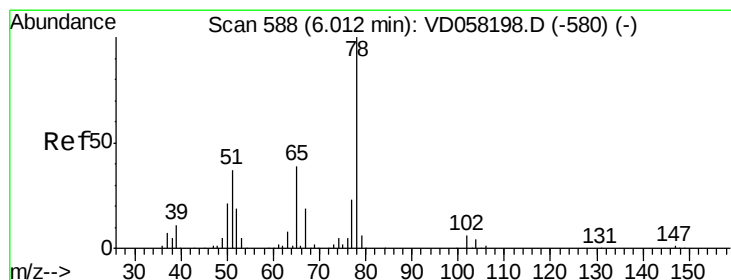
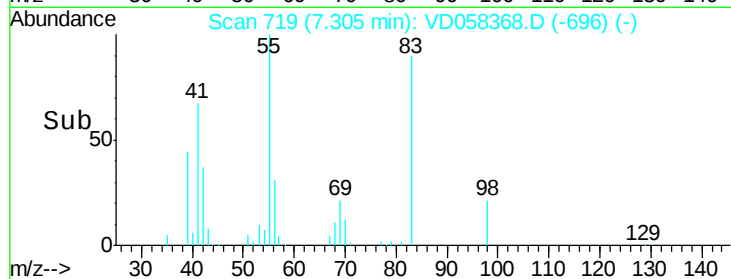
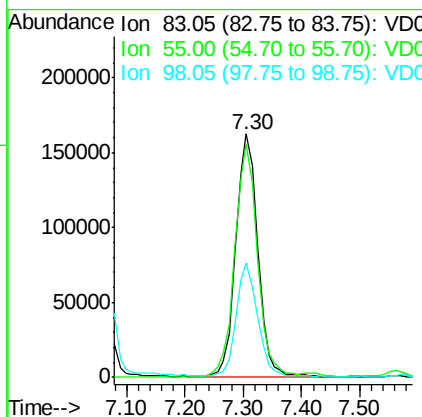
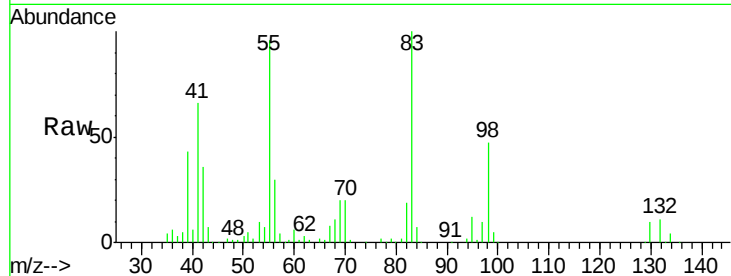




#39
Methvlcvclohexane
Concen: 44.971 ug/l
RT: 7.30 min Scan# 719
Delta R.T. 0.02 min
Lab File: VD058368.D
Acq: 24 Jun 2018 13:32

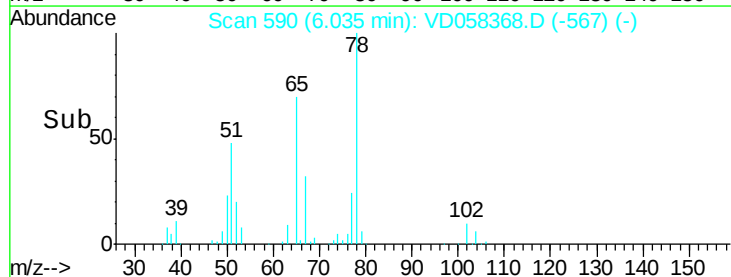
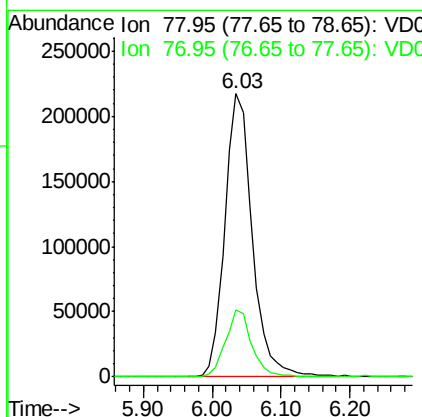
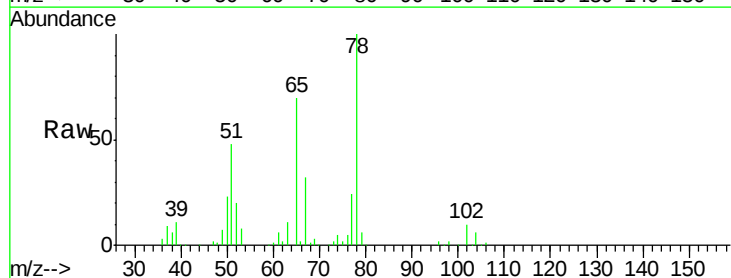
Instrument :
MSVOA_D
ClientSampleId :

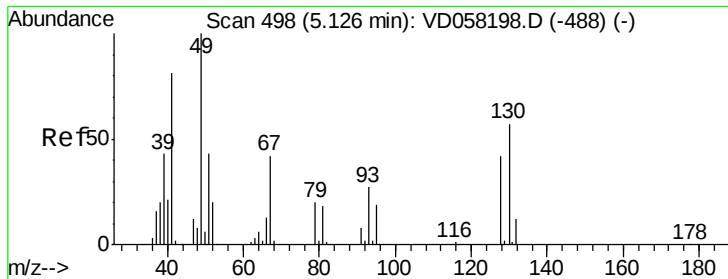
Tot Ion: 83 Resp: 425996
Ion Ratio Lower Upper
83 100
55 96.1 77.4 116.2
98 46.8 35.9 53.9



#40
Benzene
Concen: 25.884 ug/l
RT: 6.03 min Scan# 590
Delta R.T. 0.02 min
Lab File: VD058368.D
Acq: 24 Jun 2018 13:32

Tgt Ion: 78 Resp: 599658
Ion Ratio Lower Upper
78 100
77 23.5 18.5 27.7





#41

Methacrylonitrile

Concen: 1.321 ug/l

RT: 5.22 min Scan# 507

Delta R.T. 0.09 min

Lab File: VD058368.D

Acq: 24 Jun 2018 13:32

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 41 Resp: 3534

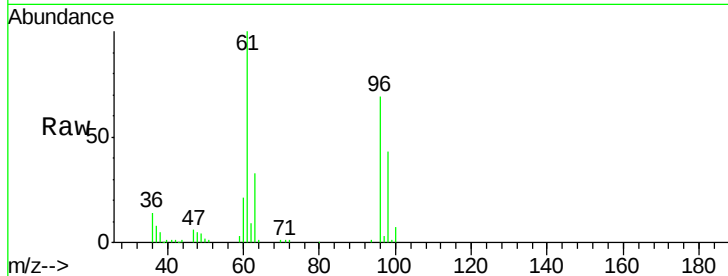
Ion Ratio Lower Upper

41 100

39 60.6 43.4 65.2

67 0.0 41.7 62.5#

52 0.0 20.6 30.8#

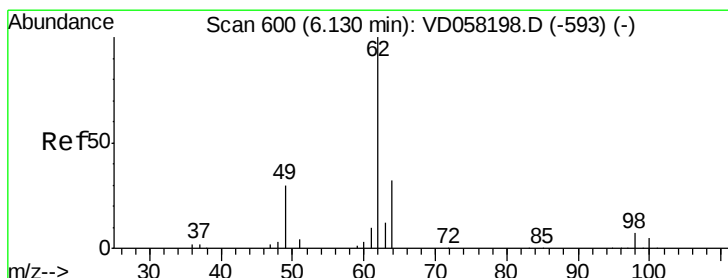
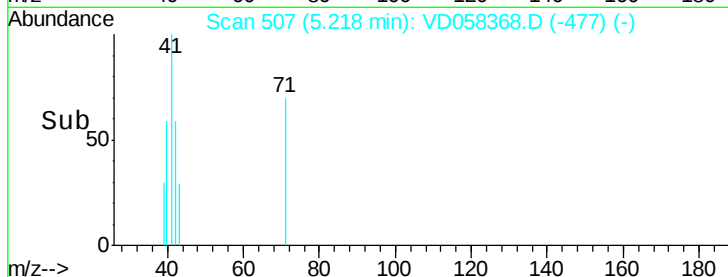
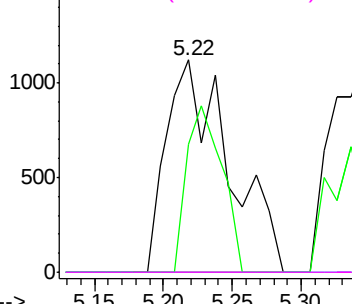


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#42

1,2-Dichloroethane

Concen: 2.017 ug/l

RT: 6.15 min Scan# 602

Delta R.T. 0.02 min

Lab File: VD058368.D

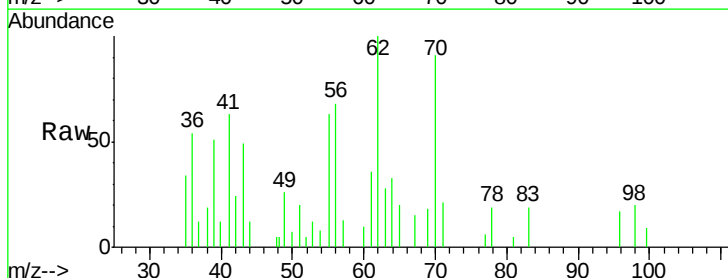
Acq: 24 Jun 2018 13:32

Tgt Ion: 62 Resp: 18846

Ion Ratio Lower Upper

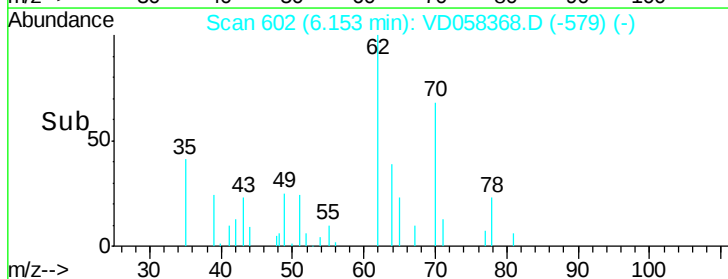
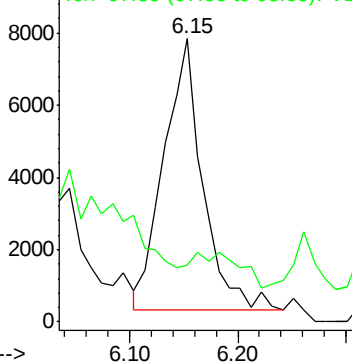
62 100

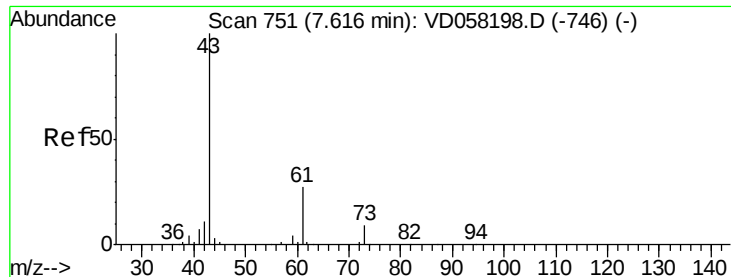
98 20.2 0.0 13.2#



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



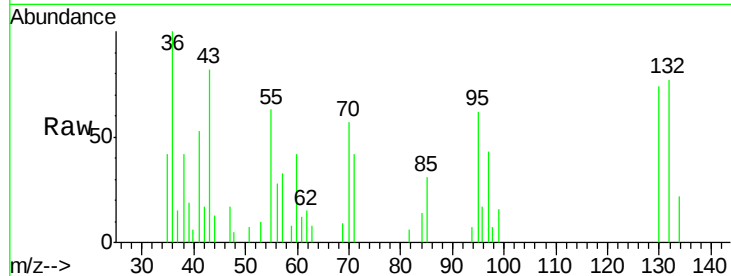


#43

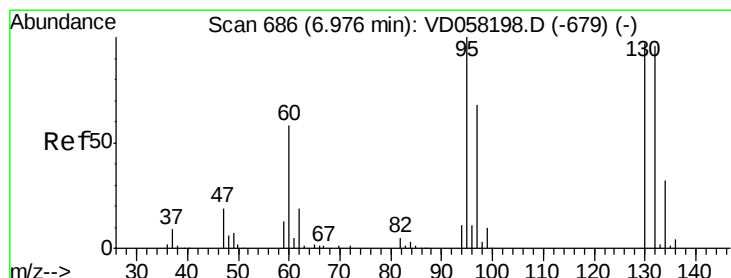
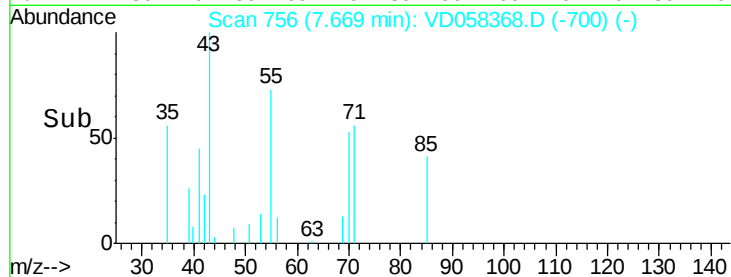
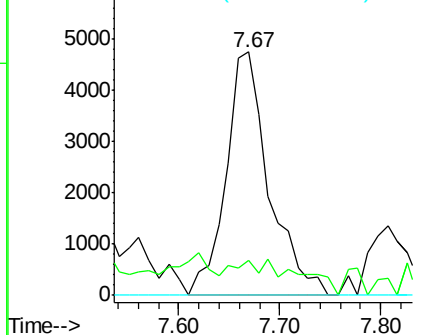
Isopropyl Acetate
 Concen: 1.898 ug/l
 RT: 7.67 min Scan# 756
 Delta R.T. 0.05 min
 Lab File: VD058368.D
 Acq: 24 Jun 2018 13:32

Instrument :
 MSVOA_D
 ClientSampleID :

Tot Ion: 43 Resp: 14024
 Ion Ratio Lower Upper
 43 100
 61 14.4 21.8 32.6#
 87 0.0 0.3 0.5#



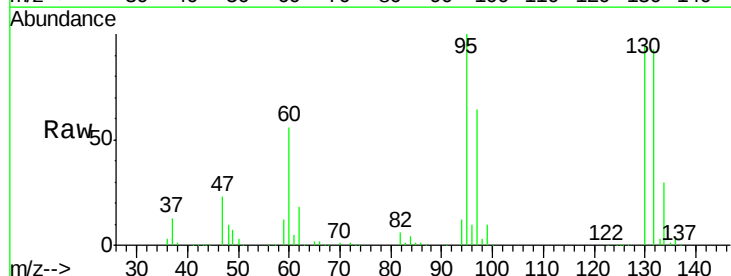
Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 87.00 (86.70 to 87.70): VDC



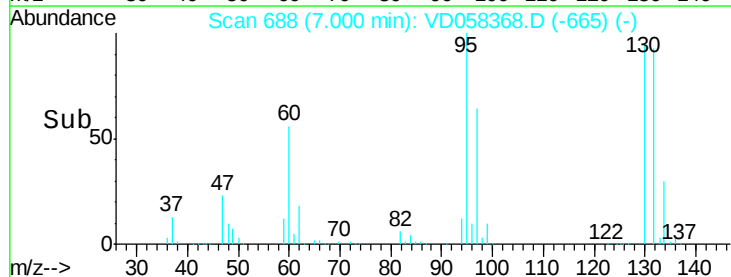
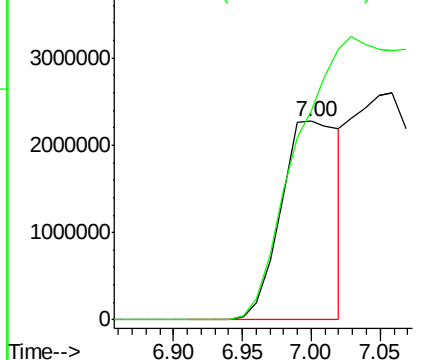
#44

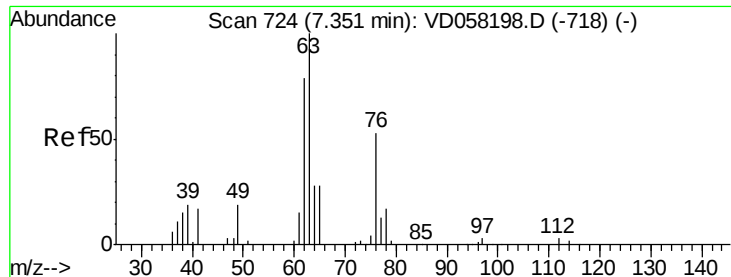
Trichloroethene
 Concen: 958.258 ug/l
 RT: 7.00 min Scan# 688
 Delta R.T. 0.02 min
 Lab File: VD058368.D
 Acq: 24 Jun 2018 13:32

Tgt Ion:130 Resp: 6666146
 Ion Ratio Lower Upper
 130 100
 95 105.4 0.0 205.6



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





#45

1,2-Dichloropropane

Concen: 1.161 ug/l

RT: 7.30 min Scan# 719

Delta R.T. -0.05 min

Lab File: VD058368.D

Acq: 24 Jun 2018 13:32

Instrument :

MSVOA_D

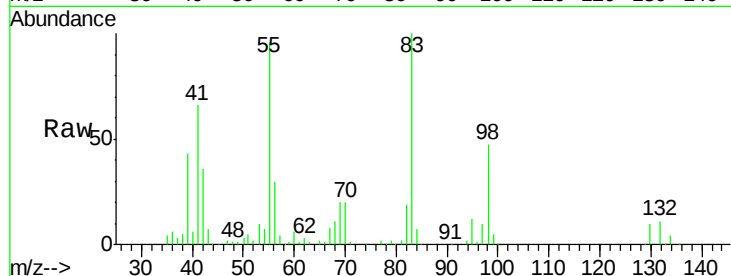
ClientSampled :

Tot Ion: 63 Resp: 7241

Ion Ratio Lower Upper

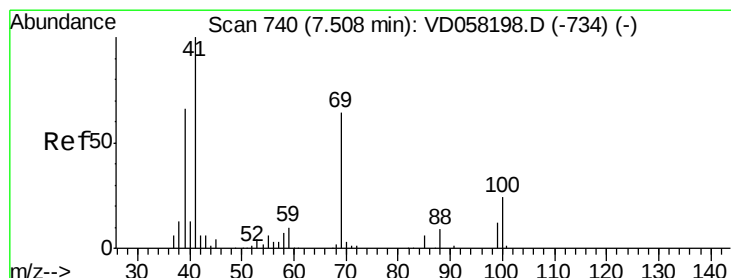
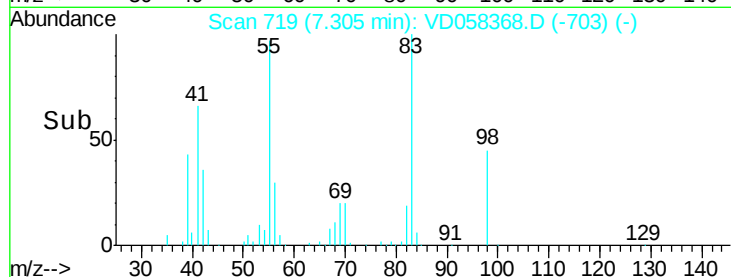
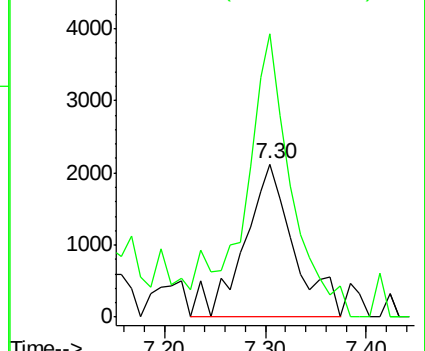
63 100

65 185.1 24.0 36.0#



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#48

Methyl methacrylate

Concen: 4.133 ug/l

RT: 7.56 min Scan# 745

Delta R.T. 0.05 min

Lab File: VD058368.D

Acq: 24 Jun 2018 13:32

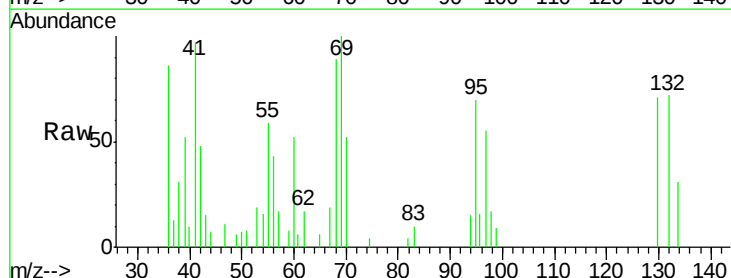
Tgt Ion: 41 Resp: 18556

Ion Ratio Lower Upper

41 100

69 103.3 50.7 76.1#

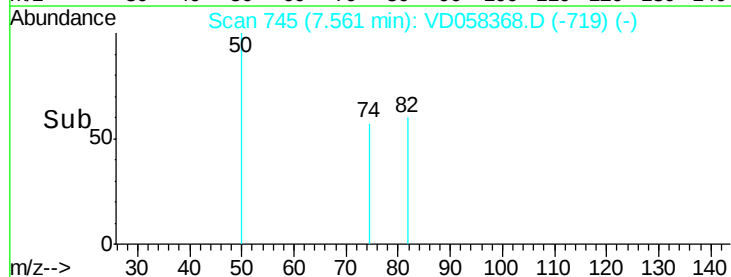
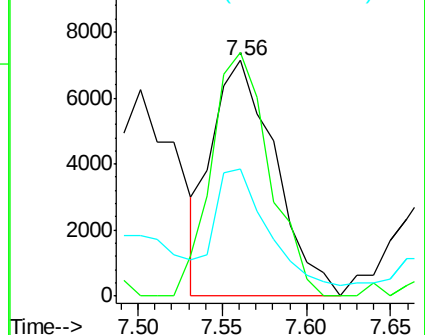
39 53.7 52.6 78.8

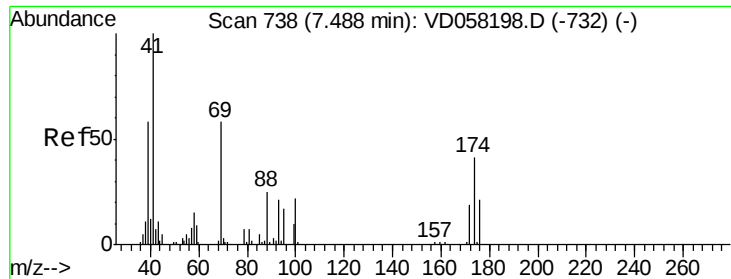


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 38.95 (38.65 to 39.65): VDC

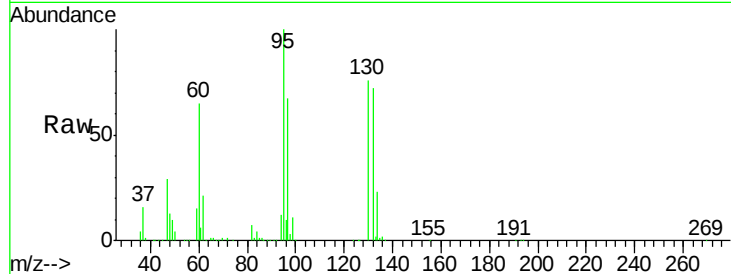




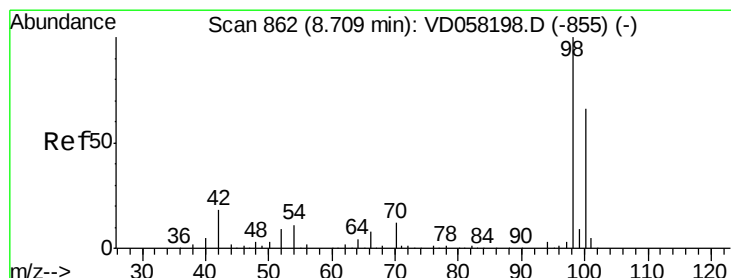
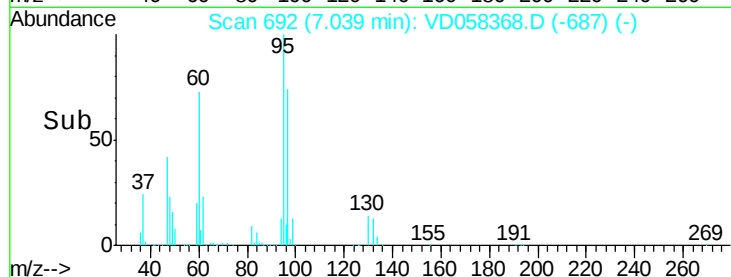
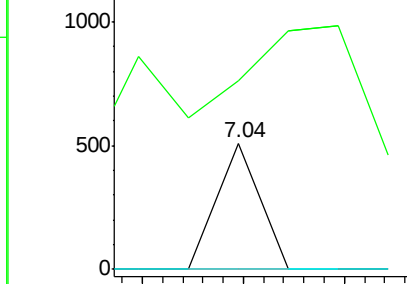
#49
 1,4-Dioxane
 Concen: 7.451 ug/l
 RT: 7.04 min Scan# 692
 Delta R.T. -0.45 min
 Lab File: VD058368.D
 Acq: 24 Jun 2018 13:32

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 88 Resp: 302
 Ion Ratio Lower Upper
 88 100
 43 149.5 34.2 51.2#
 58 0.0 47.9 71.9#

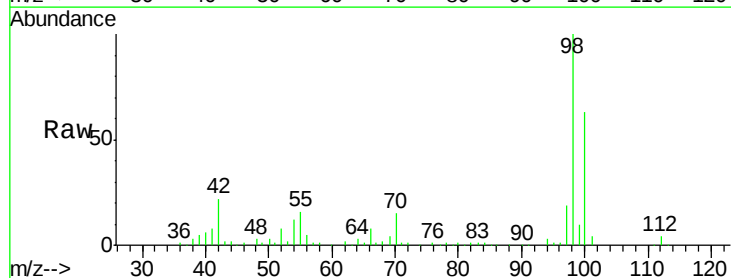


Abundance Ion 88.00 (87.70 to 88.70): VDC
 Ion 43.05 (42.75 to 43.75): VDC
 Ion 57.95 (57.65 to 58.65): VDC

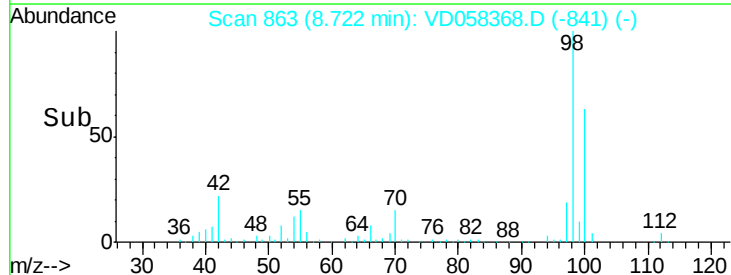
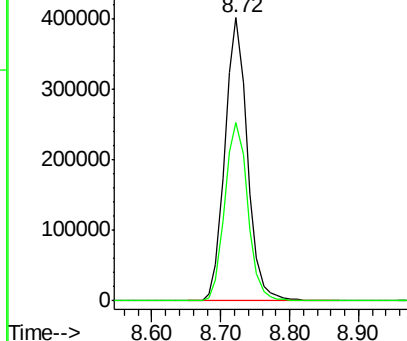


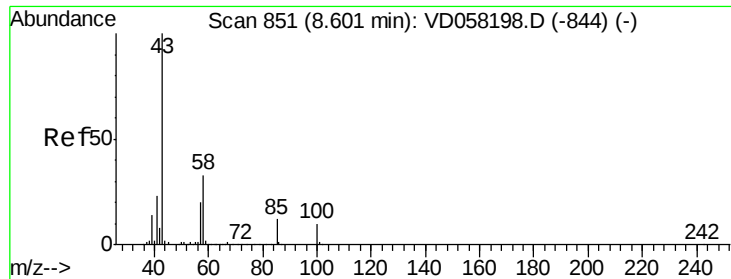
#50
 Toluene-d8
 Concen: 7.451 ug/l
 RT: 8.72 min Scan# 863
 Delta R.T. 0.01 min
 Lab File: VD058368.D
 Acq: 24 Jun 2018 13:32

Tgt Ion: 98 Resp: 908192
 Ion Ratio Lower Upper
 98 100
 100 63.2 53.6 80.4



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: 1.307 ug/l

RT: 8.61 min Scan# 852

Delta R.T. 0.01 min

Lab File: VD058368.D

Acq: 24 Jun 2018 13:32

Instrument :

MSVOA_D

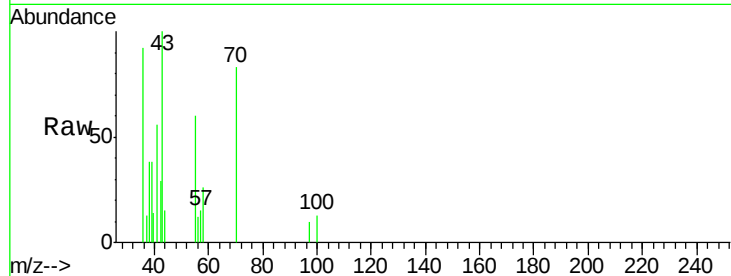
ClientSampleId :

Tot Ion: 43 Resp: 6298

Ion Ratio Lower Upper

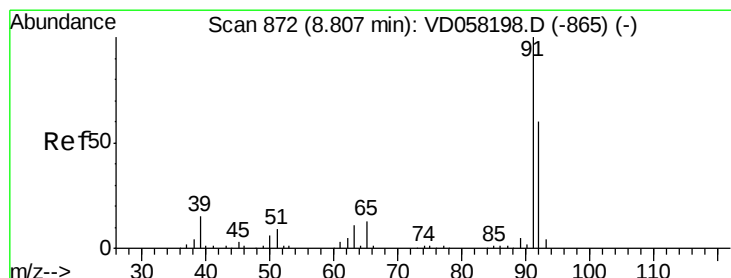
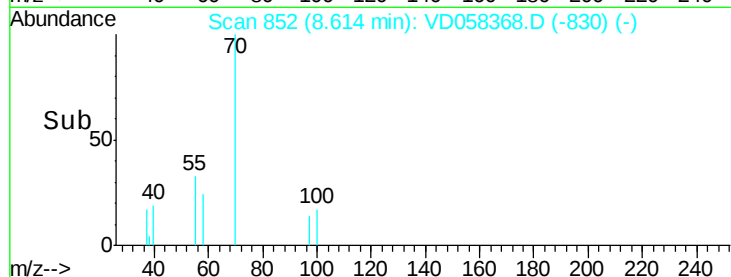
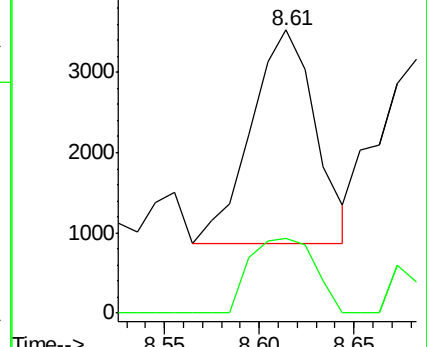
43 100

58 26.3 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: 10.723 ug/l

RT: 8.81 min Scan# 872

Delta R.T. 0.00 min

Lab File: VD058368.D

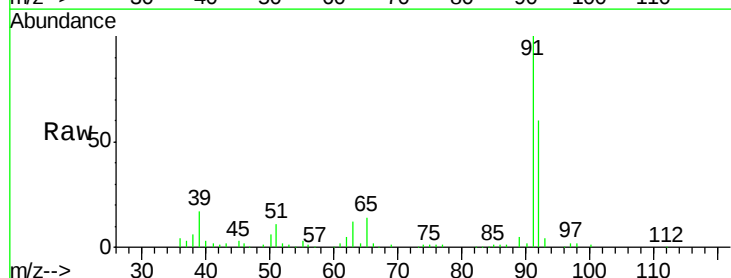
Acq: 24 Jun 2018 13:32

Tgt Ion: 92 Resp: 141452

Ion Ratio Lower Upper

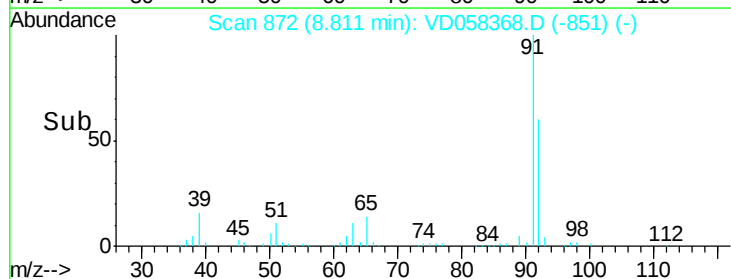
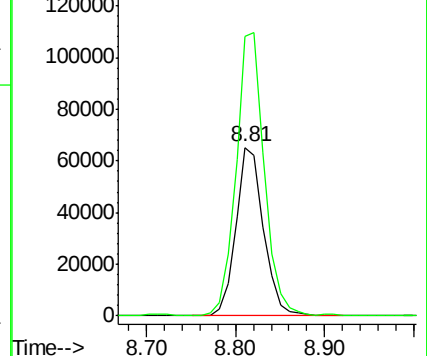
92 100

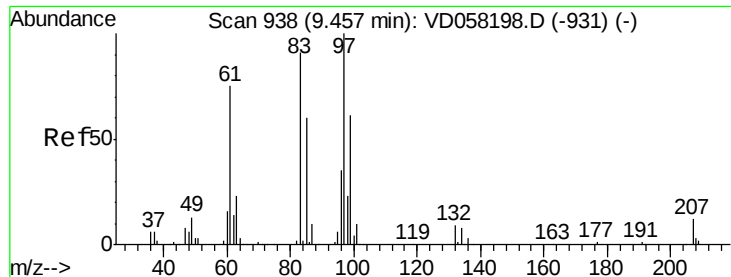
91 165.9 133.2 199.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

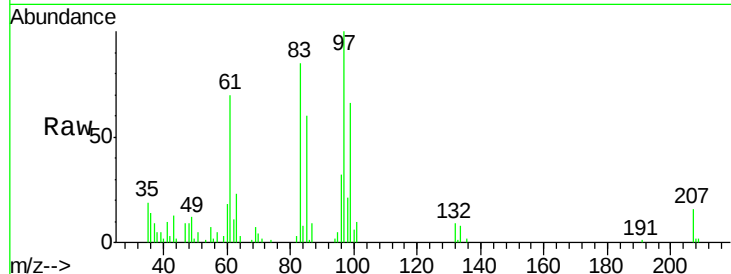




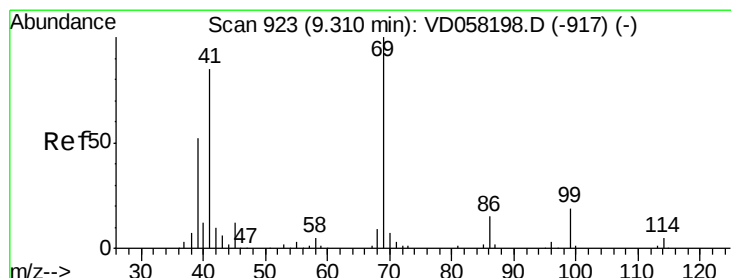
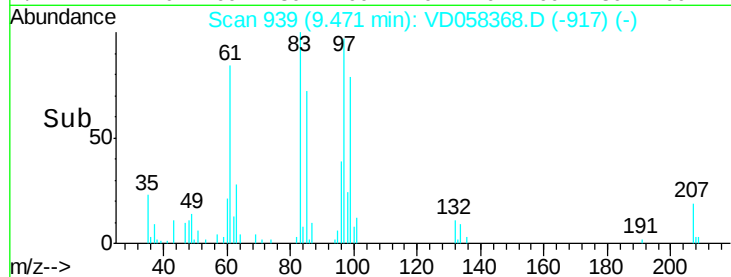
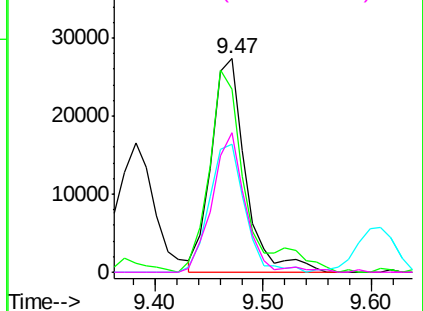
#55
 1,1,2-Trichloroethane
 Concen: 12.884 ug/l
 RT: 9.47 min Scan# 939
 Delta R.T. 0.01 min
 Lab File: VD058368.D
 Acq: 24 Jun 2018 13:32

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 97 Resp: 60134
 Ion Ratio Lower Upper
 97 100
 83 85.4 72.9 109.3
 85 59.7 48.2 72.4
 99 65.6 48.9 73.3

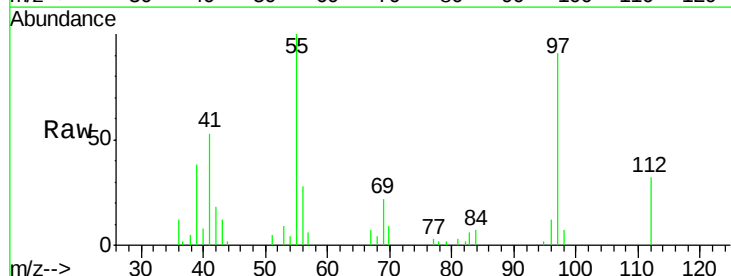


Abundance Ion 96.85 (96.55 to 97.55): VDC
 Ion 82.95 (82.65 to 83.65): VDC
 Ion 84.95 (84.65 to 85.65): VDC
 Ion 98.85 (98.55 to 99.55): VDC

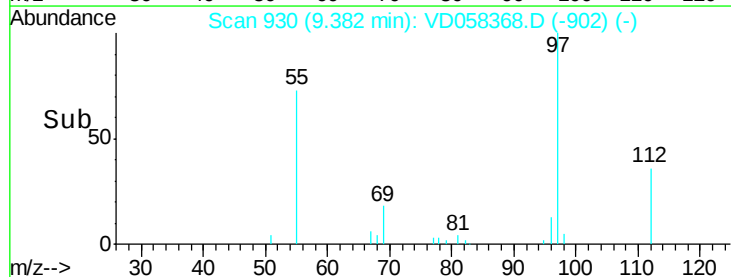
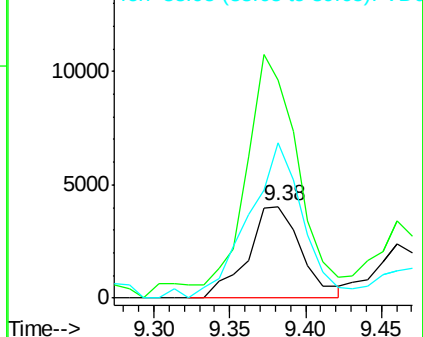


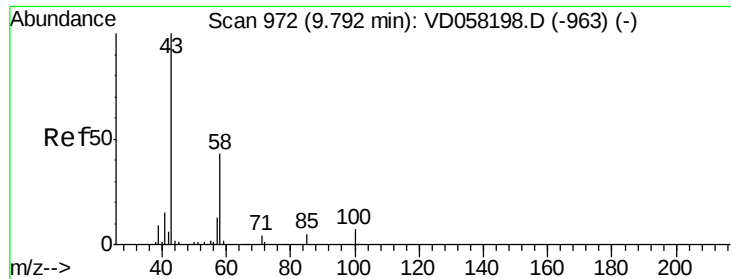
#56
 Ethyl methacrylate
 Concen: 1.792 ug/l
 RT: 9.38 min Scan# 930
 Delta R.T. 0.07 min
 Lab File: VD058368.D
 Acq: 24 Jun 2018 13:32

Tgt Ion: 69 Resp: 10000
 Ion Ratio Lower Upper
 69 100
 41 237.7 67.6 101.4#
 39 168.9 42.2 63.2#



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

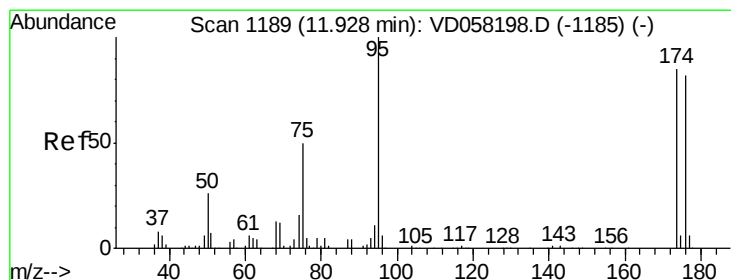
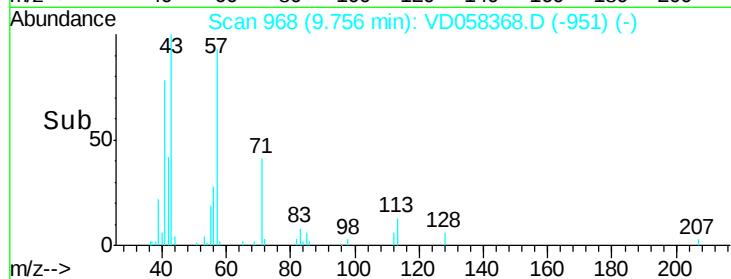
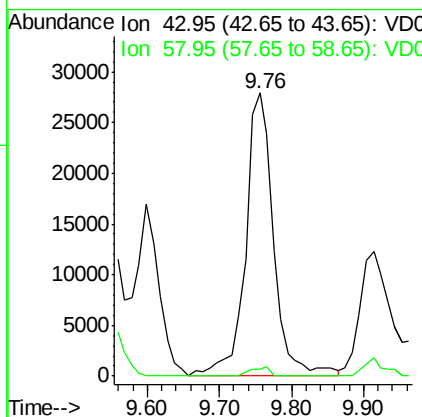
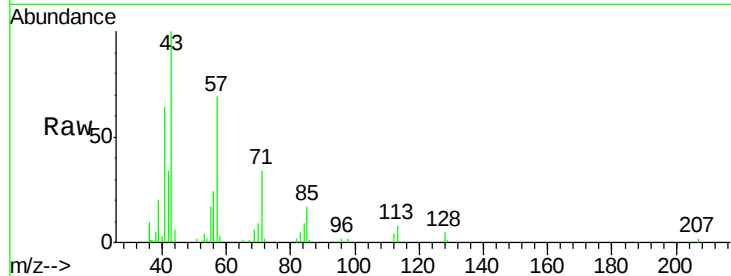




#59
2-Hexanone
Concen: 21.681 ug/l
RT: 9.76 min Scan# 968
Delta R.T. -0.04 min
Lab File: VD058368.D
Acq: 24 Jun 2018 13:32

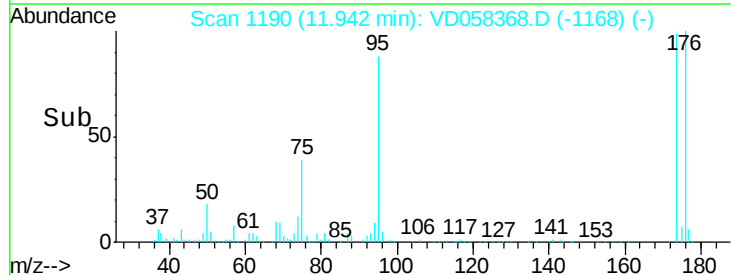
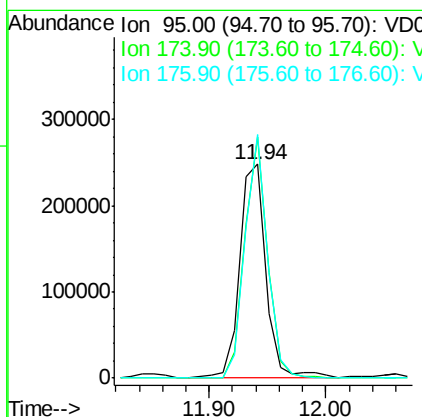
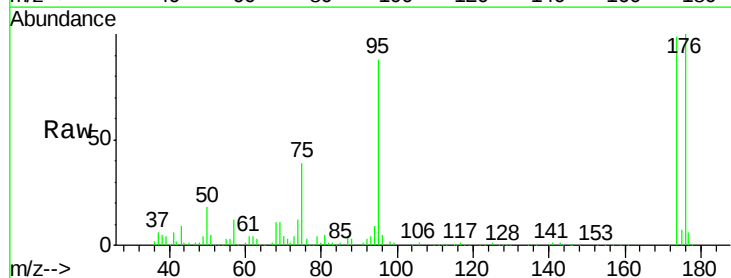
Instrument :
MSVOA_D
ClientSampled :

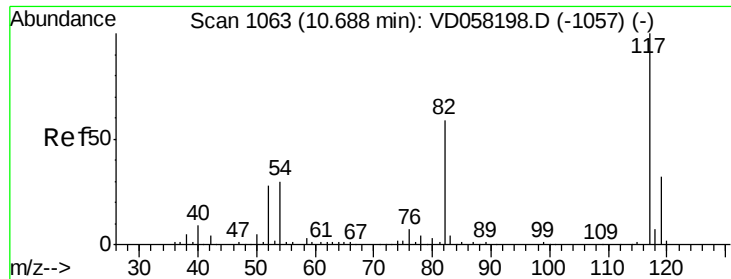
Tot Ion: 43 Resp: 75492
Ion Ratio Lower Upper
43 100
58 2.6 21.7 65.1#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 11.94 min Scan# 1190
Delta R.T. 0.01 min
Lab File: VD058368.D
Acq: 24 Jun 2018 13:32

Tgt Ion: 95 Resp: 384566
Ion Ratio Lower Upper
95 100
174 112.4 0.0 170.2
176 113.7 0.0 164.6

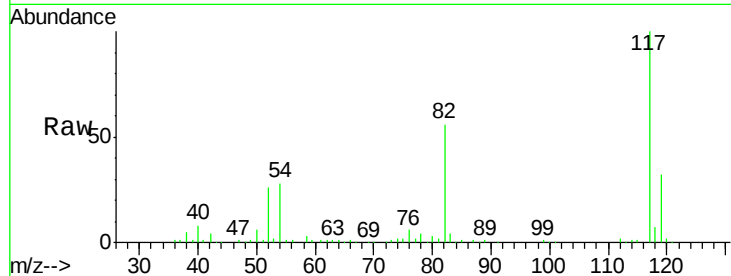




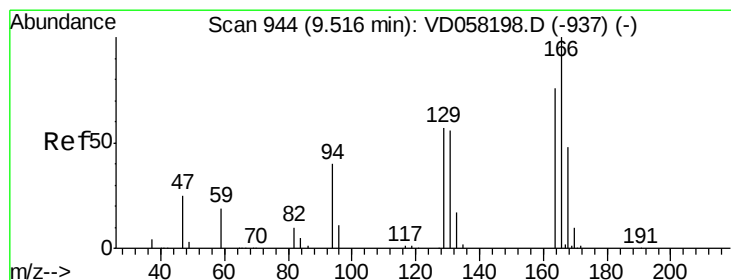
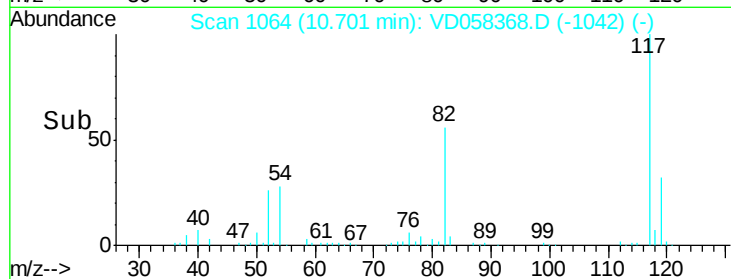
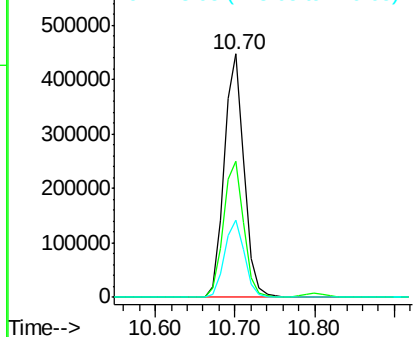
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.70 min Scan# 1064
Delta R.T. 0.01 min
Lab File: VD058368.D
Acq: 24 Jun 2018 13:32

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:117 Resp: 786940
Ion Ratio Lower Upper
117 100
82 55.8 47.0 70.6
119 31.9 25.3 37.9

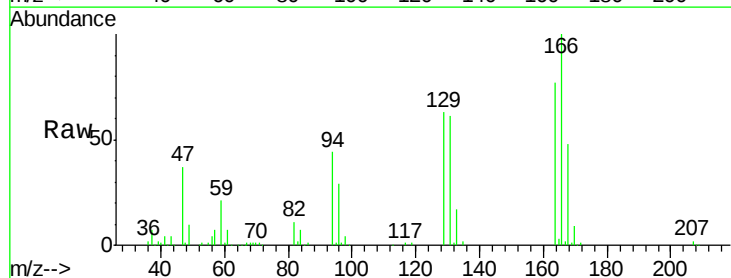


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

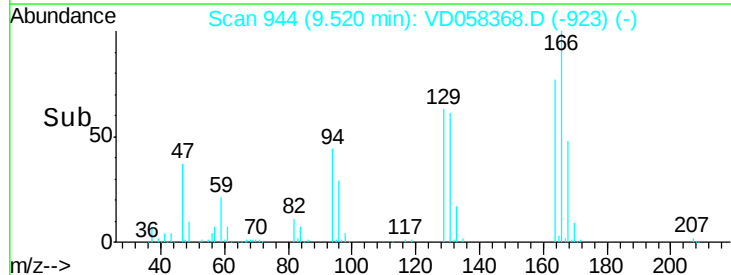
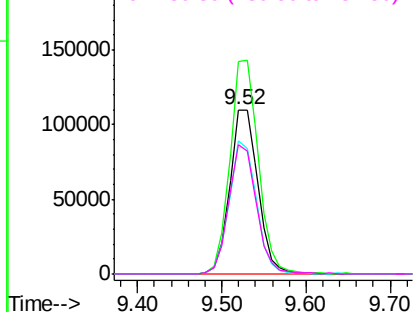


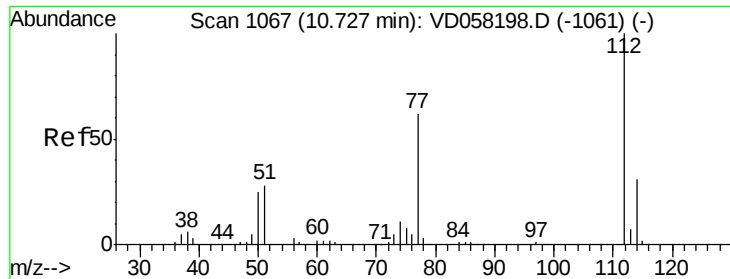
#64
Tetrachloroethene
Concen: 38.378 ug/l
RT: 9.52 min Scan# 944
Delta R.T. 0.00 min
Lab File: VD058368.D
Acq: 24 Jun 2018 13:32

Tgt Ion:164 Resp: 254117
Ion Ratio Lower Upper
164 100
166 129.7 105.4 158.0
129 81.3 59.6 89.4
131 78.9 59.4 89.2



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

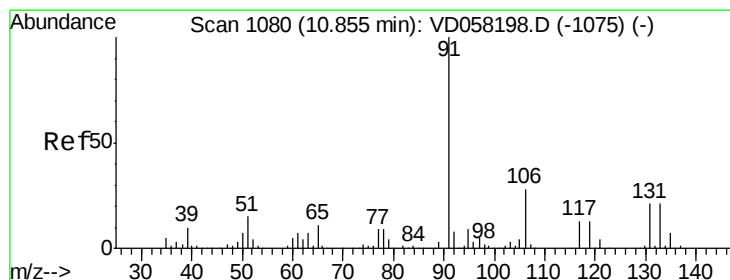
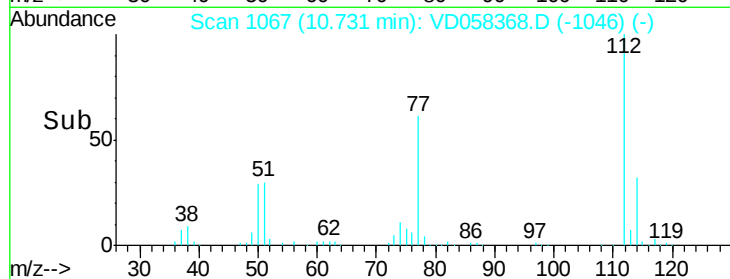
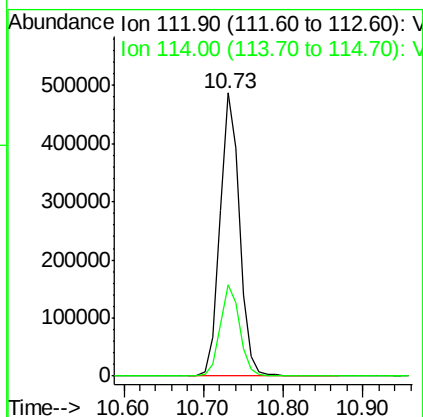
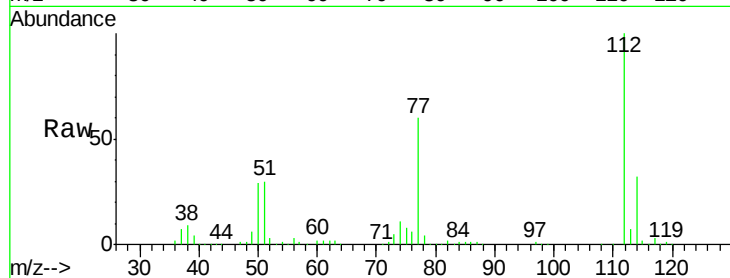




#65
Chlorobenzene
Concen: 57.669 ug/l
RT: 10.73 min Scan# 1067
Delta R.T. 0.00 min
Lab File: VD058368.D
Acq: 24 Jun 2018 13:32

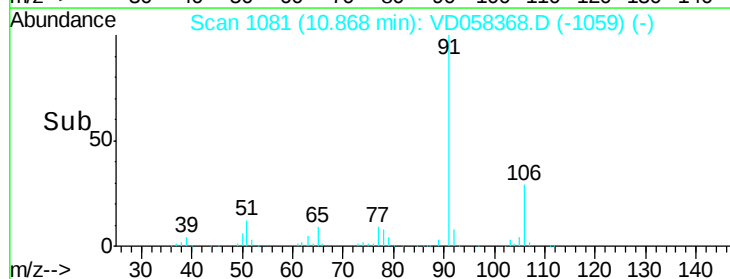
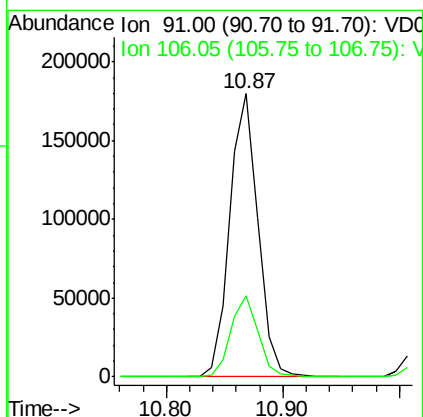
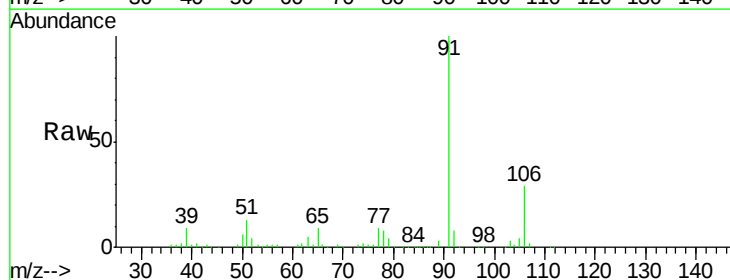
Instrument :
MSVOA_D
ClientSampleId :

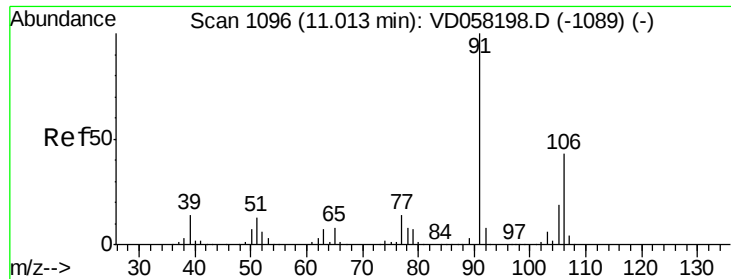
Tot Ion: 112 Resp: 848889
Ion Ratio Lower Upper
112 100
114 32.3 25.0 37.4



#67
Ethyl Benzene
Concen: 11.606 ug/l
RT: 10.87 min Scan# 1081
Delta R.T. 0.01 min
Lab File: VD058368.D
Acq: 24 Jun 2018 13:32

Tgt Ion: 91 Resp: 301611
Ion Ratio Lower Upper
91 100
106 28.6 22.0 33.0

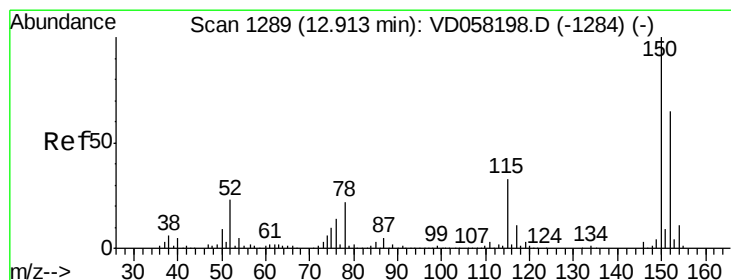
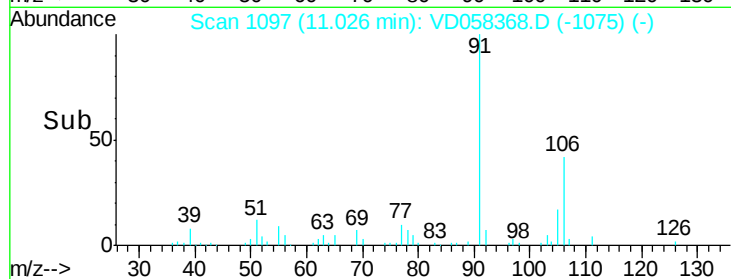
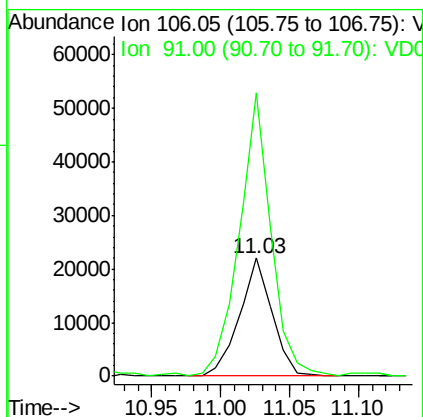
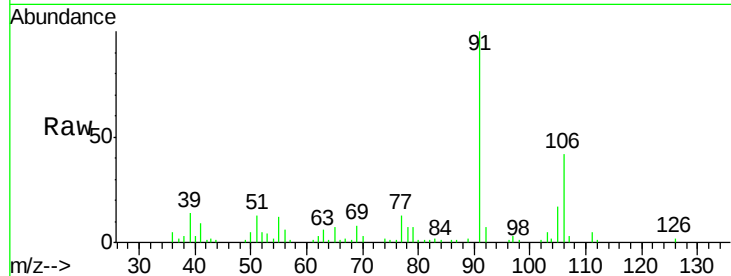




#68
m/p-Xvlenes
Concen: 4.192 ug/l
RT: 11.03 min Scan# 1097
Delta R.T. 0.01 min
Lab File: VD058368.D
Acq: 24 Jun 2018 13:32

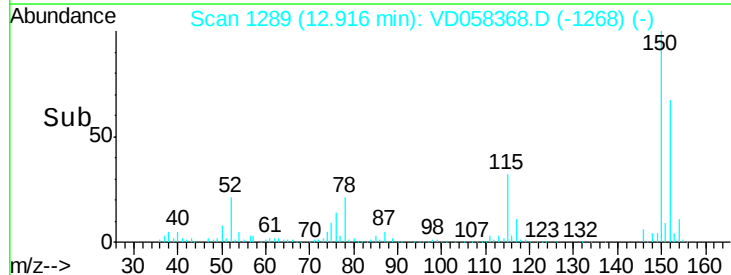
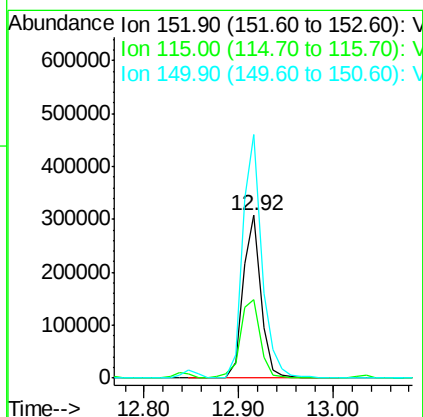
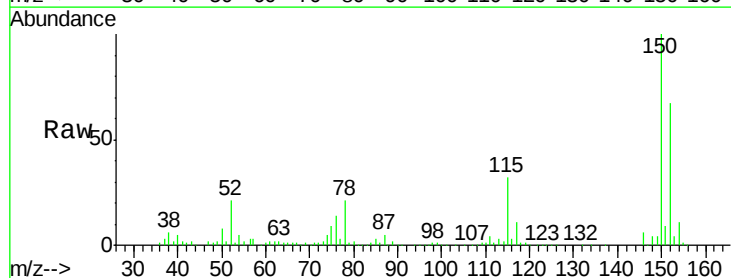
Instrument :
MSVOA_D
ClientSampleId :

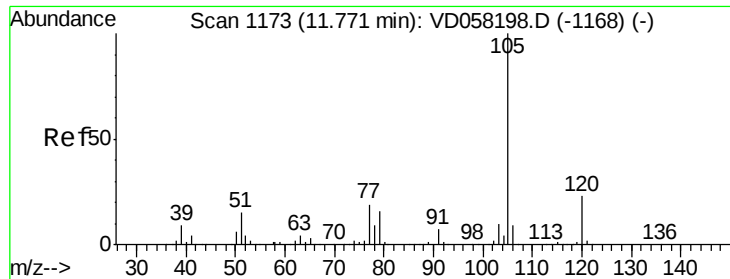
Tot Ion:106 Resp: 36325
Ion Ratio Lower Upper
106 100
91 240.2 185.0 277.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.92 min Scan# 1289
Delta R.T. 0.00 min
Lab File: VD058368.D
Acq: 24 Jun 2018 13:32

Tgt Ion:152 Resp: 401473
Ion Ratio Lower Upper
152 100
115 48.6 25.1 75.3
150 149.5 0.0 308.8





#73

Isopropylbenzene

Concen: 5.316 ug/l

RT: 11.78 min Scan# 1174

Delta R.T. 0.01 min

Lab File: VD058368.D

Acq: 24 Jun 2018 13:32

Instrument :

MSVOA_D

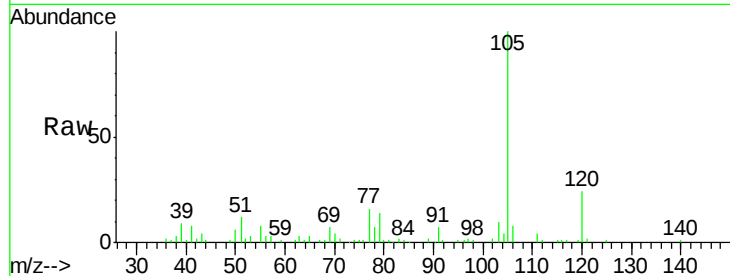
ClientSampleId :

Tot Ion:105 Resp: 127660

Ion Ratio Lower Upper

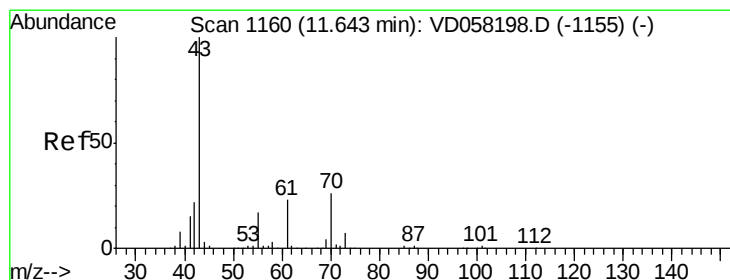
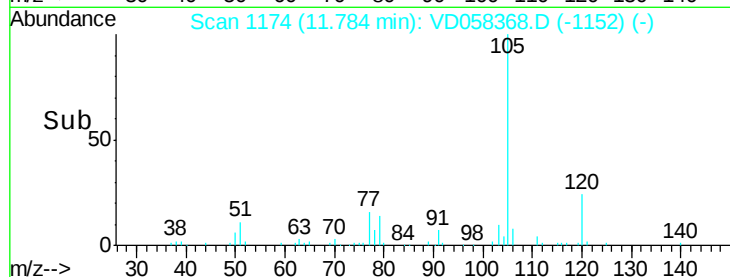
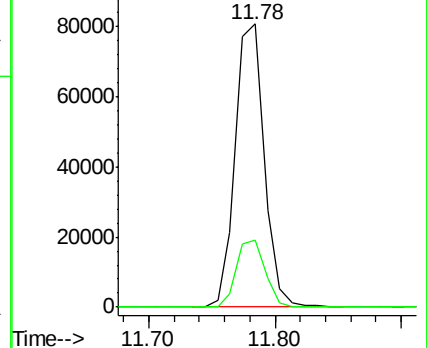
105 100

120 23.9 11.6 34.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 3.136 ug/l

RT: 11.60 min Scan# 1155

Delta R.T. -0.05 min

Lab File: VD058368.D

Acq: 24 Jun 2018 13:32

Tgt Ion: 43 Resp: 29120

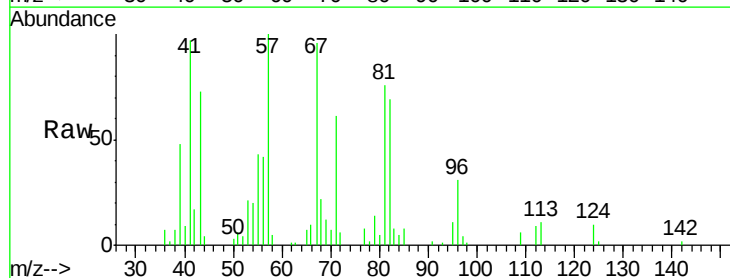
Ion Ratio Lower Upper

43 100

70 9.4 20.9 31.3#

55 58.9 13.5 20.3#

61 0.0 18.2 27.2#

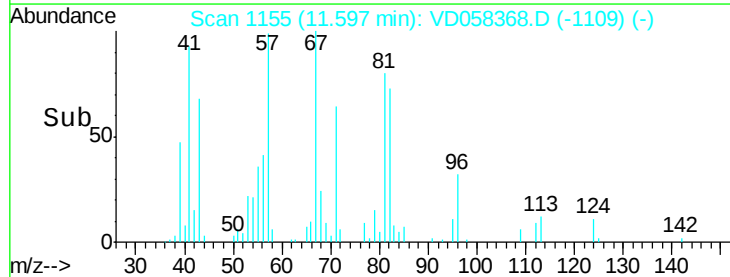
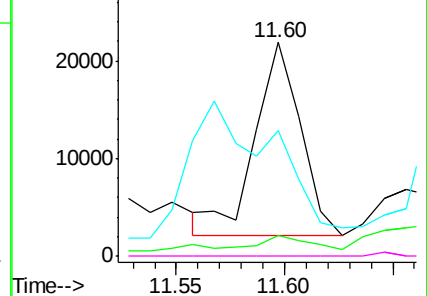


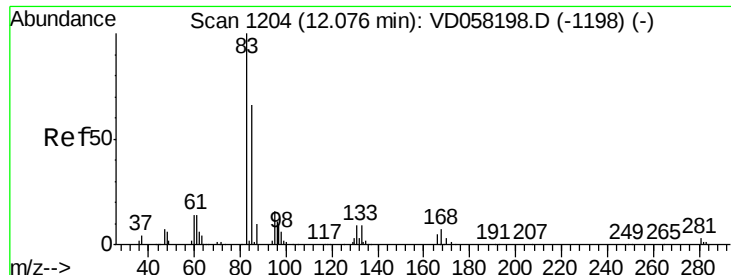
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 2.635 ug/l

RT: 12.09 min Scan# 1205

Delta R.T. 0.01 min

Lab File: VD058368.D

Acq: 24 Jun 2018 13:32

Instrument :

MSVOA_D

ClientSampled :

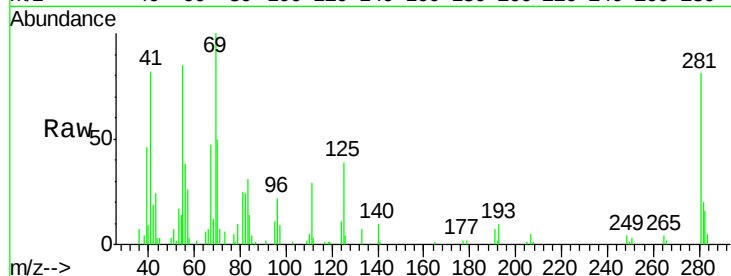
Tot Ion: 83 Resp: 14725

Ion Ratio Lower Upper

83 100

131 0.0 4.8 14.3#

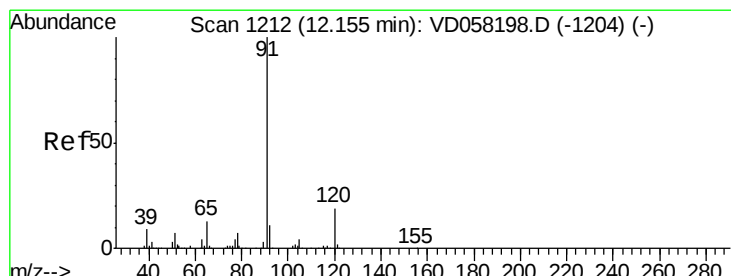
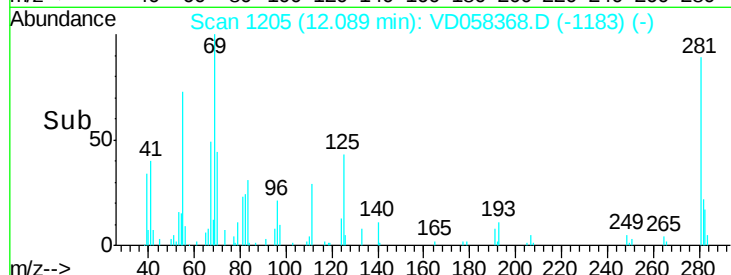
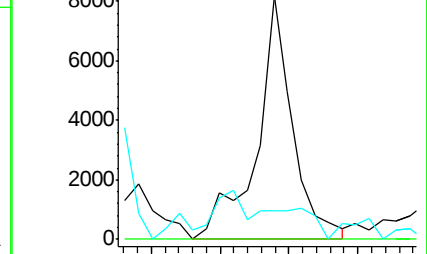
85 11.8 33.1 99.5#



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#78

n-propylbenzene

Concen: 8.457 ug/l

RT: 12.16 min Scan# 1212

Delta R.T. 0.00 min

Lab File: VD058368.D

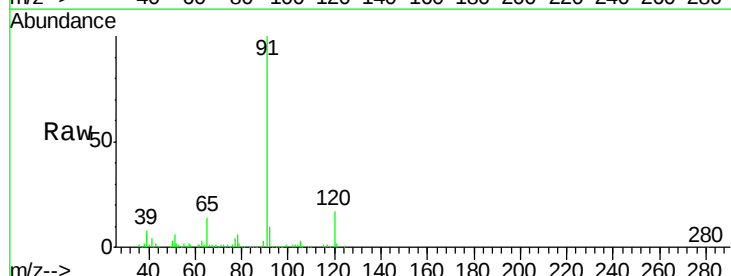
Acq: 24 Jun 2018 13:32

Tgt Ion: 91 Resp: 262269

Ion Ratio Lower Upper

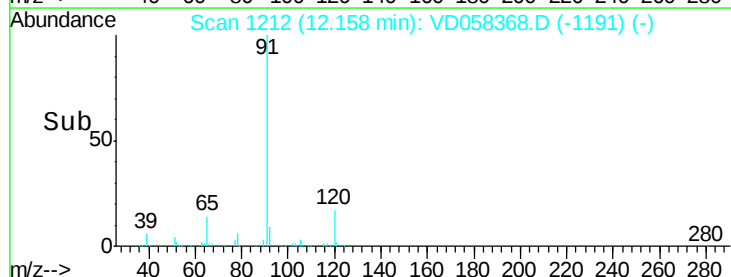
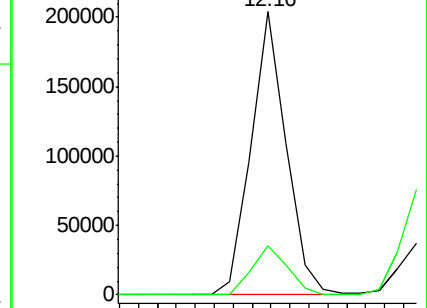
91 100

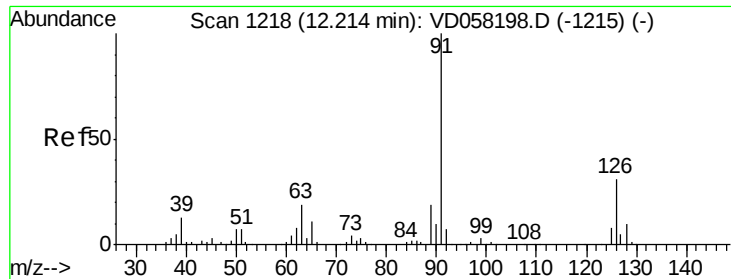
120 17.5 9.7 29.1



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.05 (119.75 to 120.75): VDC

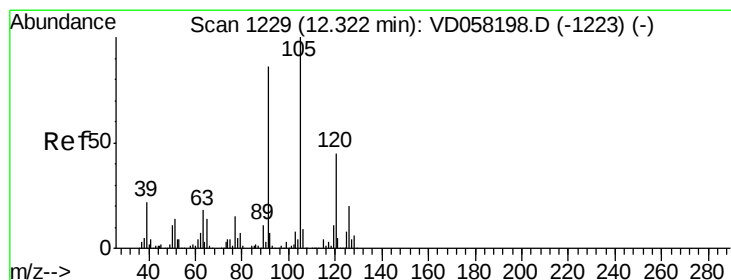
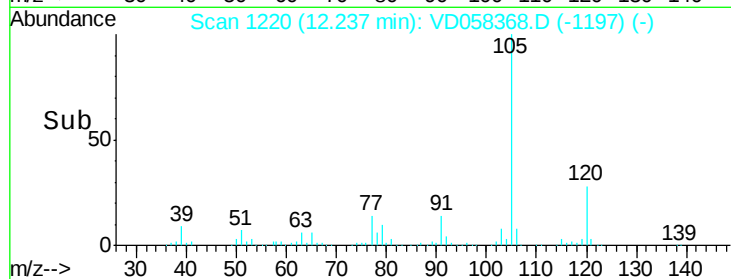
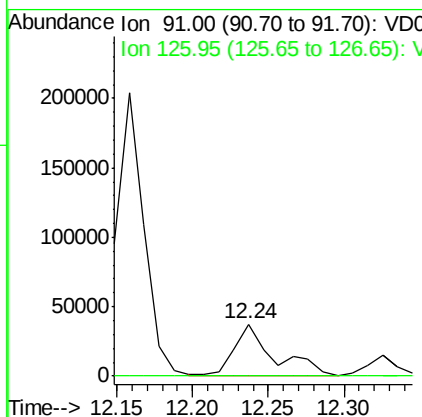
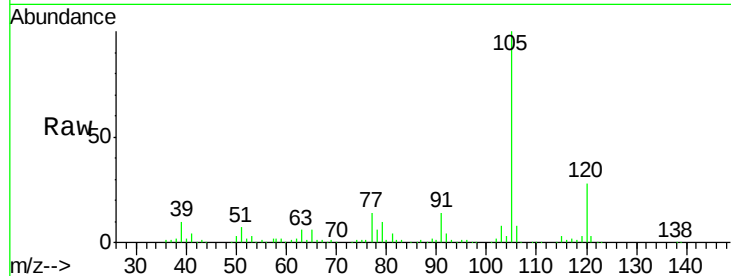




#79
 2-Chlorotoluene
 Concen: 3.858 ug/l
 RT: 12.24 min Scan# 1220
 Delta R.T. 0.02 min
 Lab File: VD058368.D
 Acq: 24 Jun 2018 13:32

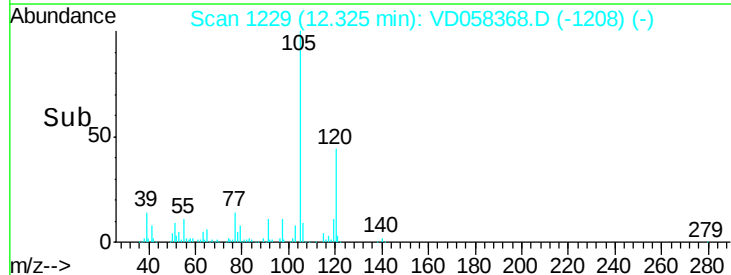
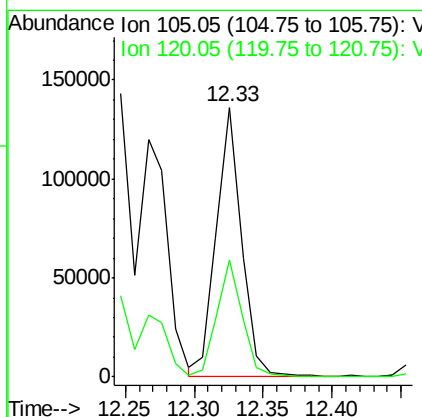
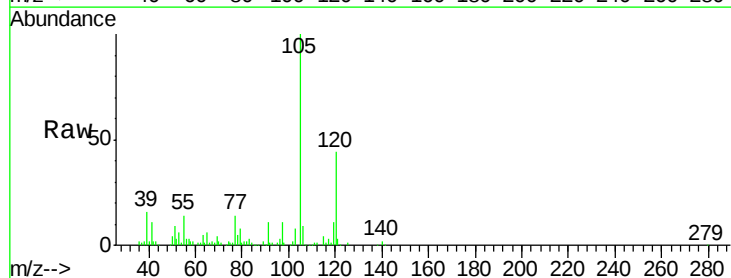
Instrument :
 MSVOA_D
 ClientSampled :

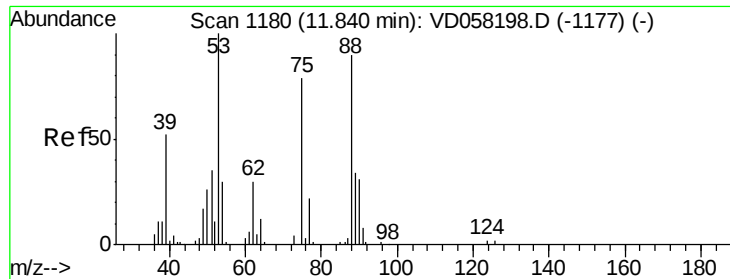
Tot Ion: 91 Resp: 68472
 Ion Ratio Lower Upper
 91 100
 126 0.0 14.9 44.5#



#80
 1,3,5-Trimethylbenzene
 Concen: 9.107 ug/l
 RT: 12.33 min Scan# 1229
 Delta R.T. 0.00 min
 Lab File: VD058368.D
 Acq: 24 Jun 2018 13:32

Tgt Ion: 105 Resp: 170571
 Ion Ratio Lower Upper
 105 100
 120 43.5 22.5 67.5





#81

trans-1,4-Dichloro-2-butene

Concen: 125.769 ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.09 min

Lab File: VD058368.D

Acq: 24 Jun 2018 13:32

Instrument :

MSVOA_D

ClientSampleId :

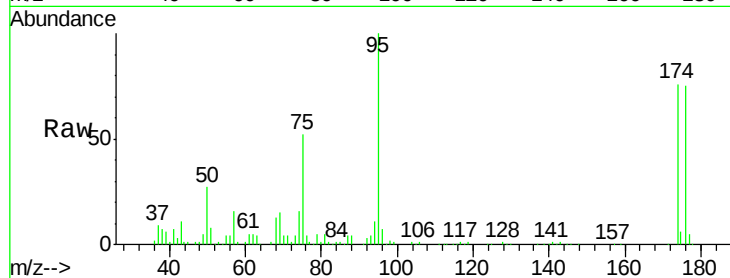
Tot Ion: 75 Resp: 179800

Ion Ratio Lower Upper

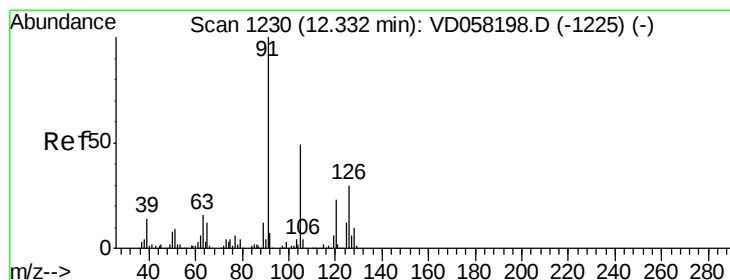
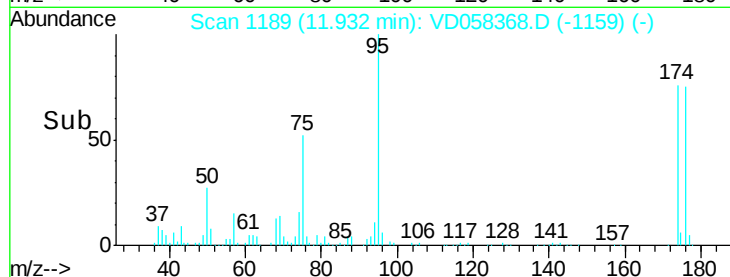
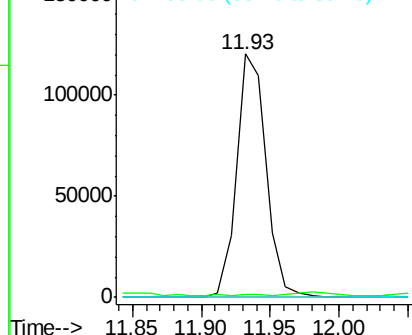
75 100

53 1.2 100.8 151.2#

89 0.0 34.6 52.0#



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



#82

4-Chlorotoluene

Concen: Below Cal

RT: 12.33 min Scan# 1229

Delta R.T. -0.01 min

Lab File: VD058368.D

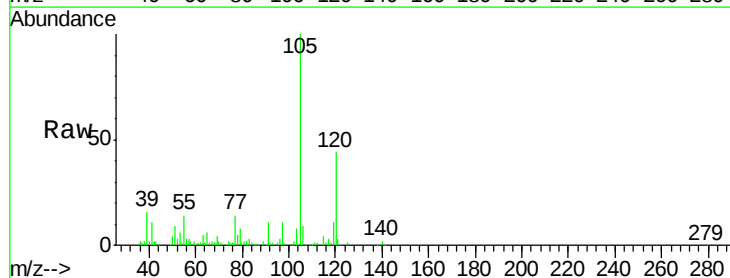
Acq: 24 Jun 2018 13:32

Tgt Ion: 91 Resp: 21237

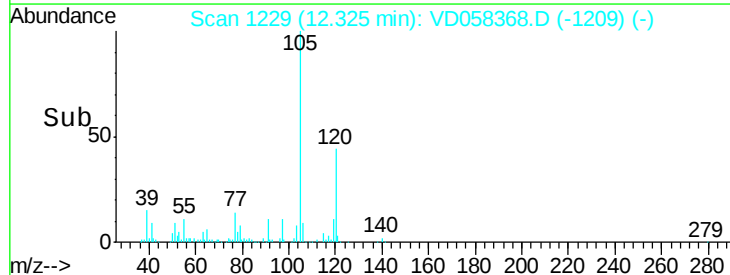
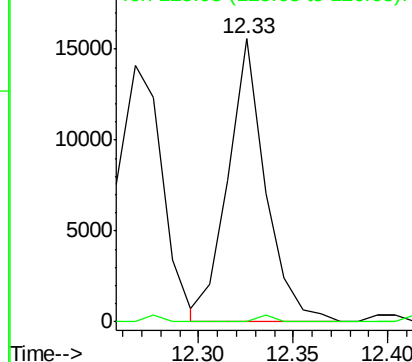
Ion Ratio Lower Upper

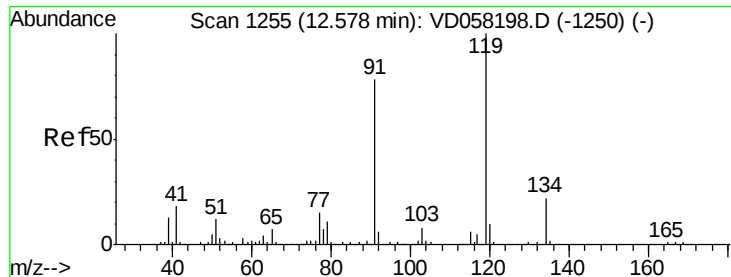
91 100

126 0.0 14.9 44.9#



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





#83

tert-Butylbenzene

Concen: 1.270 ug/l

RT: 12.58 min Scan# 1255

Delta R.T. 0.00 min

Lab File: VD058368.D

Acq: 24 Jun 2018 13:32

Instrument :

MSVOA_D

ClientSampled :

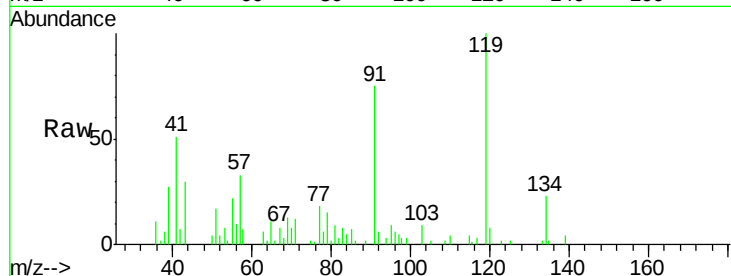
Tot Ion:119 Resp: 27349

Ion Ratio Lower Upper

119 100

91 75.2 38.9 116.6

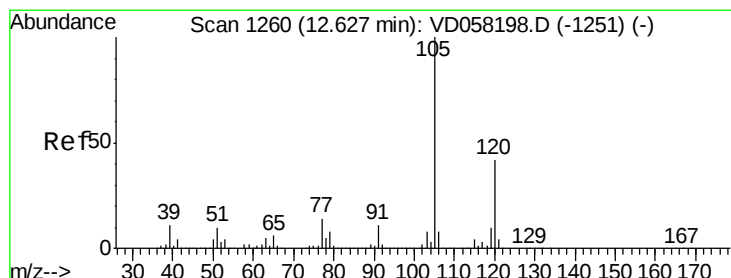
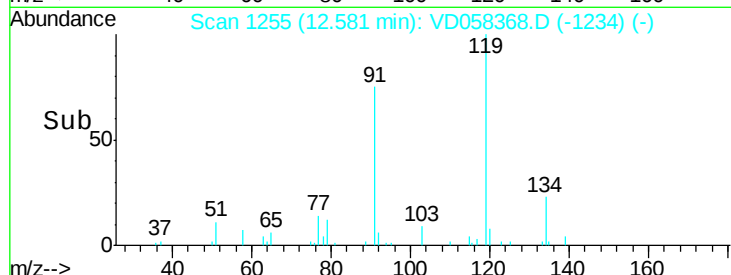
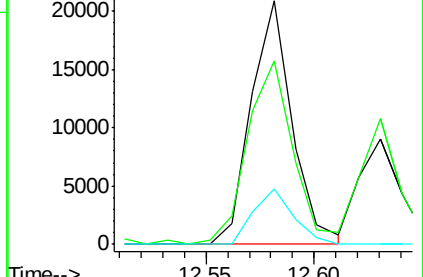
134 22.9 11.2 33.5



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: 5.739 ug/l

RT: 12.63 min Scan# 1260

Delta R.T. 0.00 min

Lab File: VD058368.D

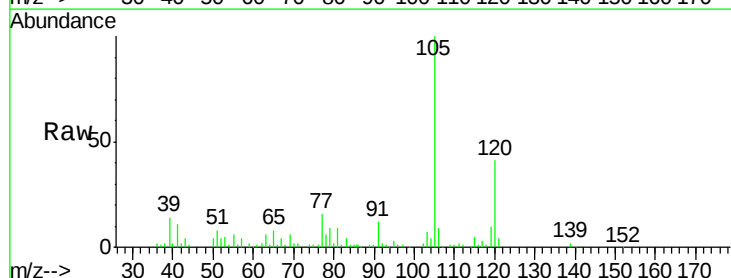
Acq: 24 Jun 2018 13:32

Tgt Ion:105 Resp: 116854

Ion Ratio Lower Upper

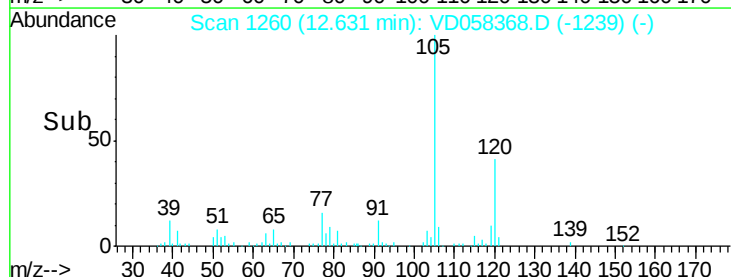
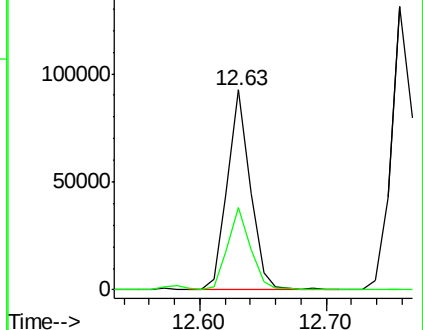
105 100

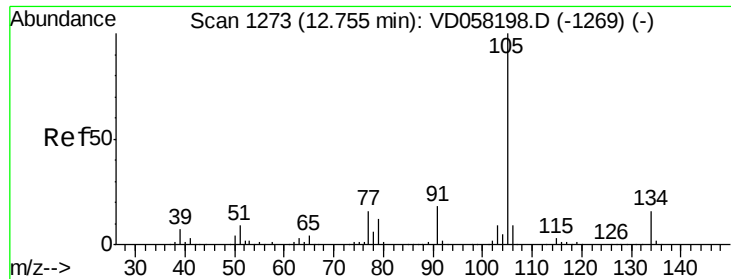
120 40.9 20.8 62.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

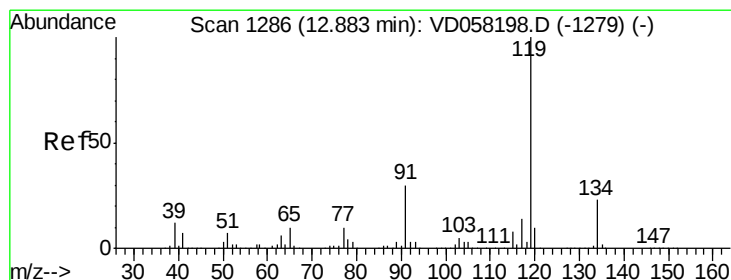
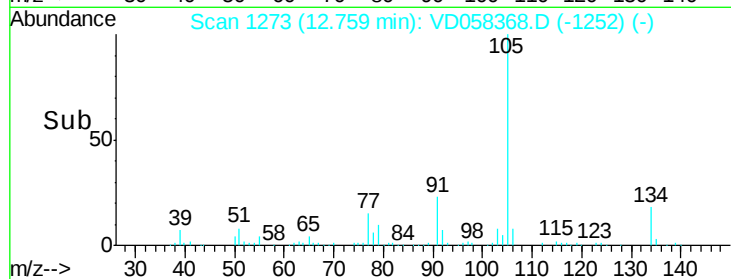
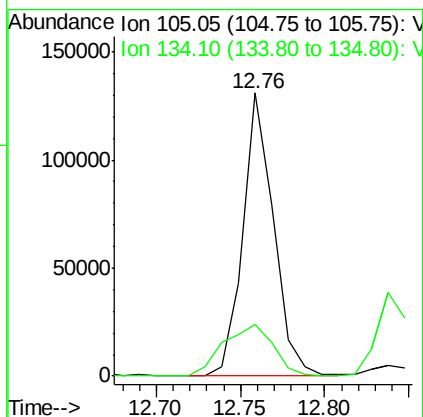
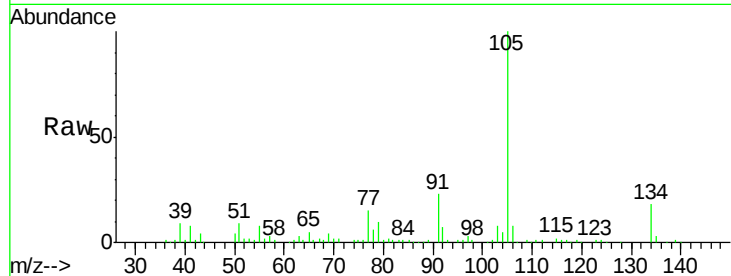




#85
 sec-Butylbenzene
 Concen: 6.574 ug/l
 RT: 12.76 min Scan# 1273
 Delta R.T. 0.00 min
 Lab File: VD058368.D
 Acq: 24 Jun 2018 13:32

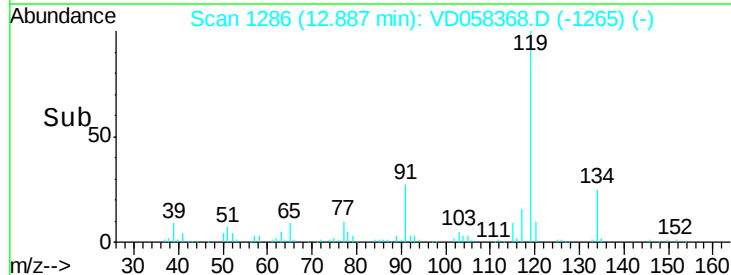
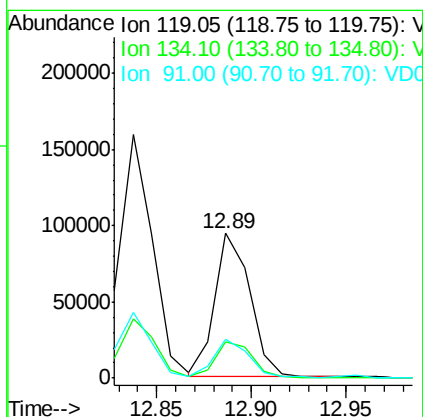
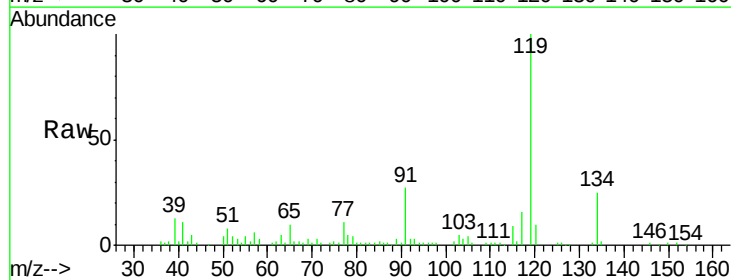
Instrument :
 MSVOA_D
 ClientSampled :

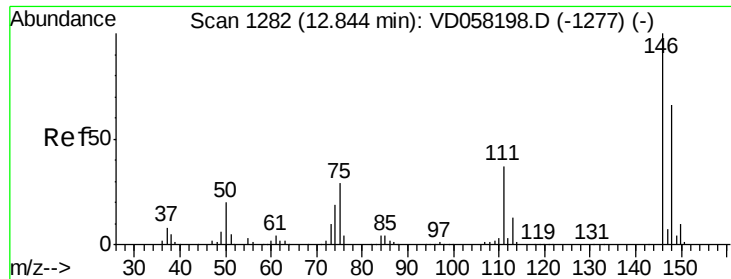
Tot Ion:105 Resp: 165923
 Ion Ratio Lower Upper
 105 100
 134 18.2 8.1 24.3



#86
 p-Isopropyltoluene
 Concen: 5.926 ug/l
 RT: 12.89 min Scan# 1286
 Delta R.T. 0.00 min
 Lab File: VD058368.D
 Acq: 24 Jun 2018 13:32

Tgt Ion:119 Resp: 121213
 Ion Ratio Lower Upper
 119 100
 134 24.7 11.6 34.8
 91 27.2 15.0 45.1

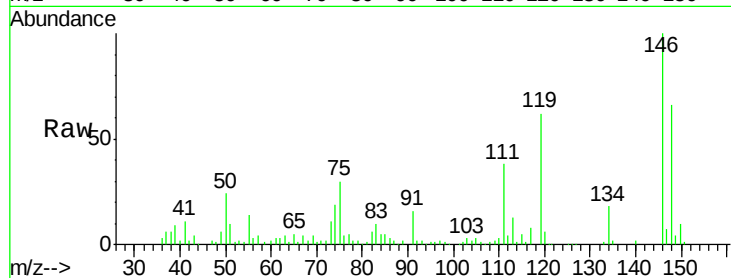




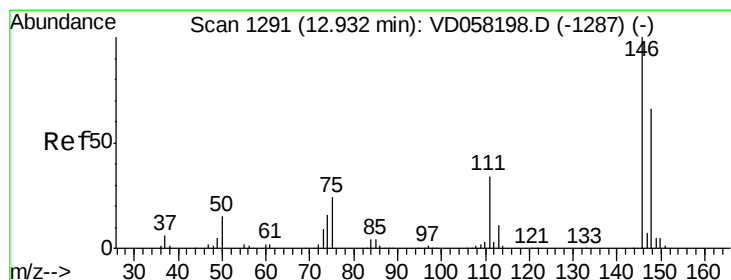
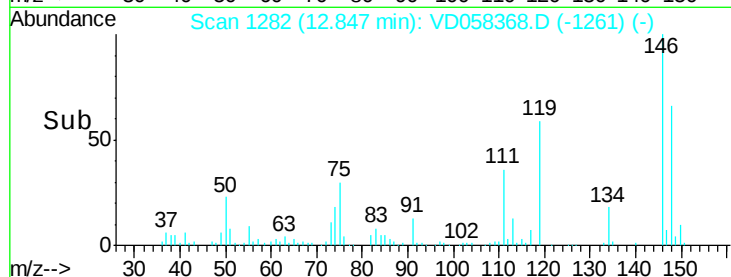
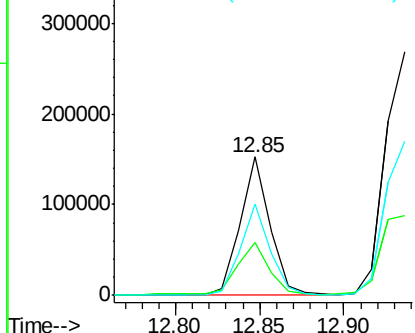
#87
 1,3-Dichlorobenzene
 Concen: 14.957 ug/l
 RT: 12.85 min Scan# 1282
 Delta R.T. 0.00 min
 Lab File: VD058368.D
 Acq: 24 Jun 2018 13:32

Instrument :
 MSVOA_D
 ClientSampled :

Tot Ion:146 Resp: 186946
 Ion Ratio Lower Upper
 146 100
 111 37.9 18.4 55.0
 148 65.8 32.8 98.4

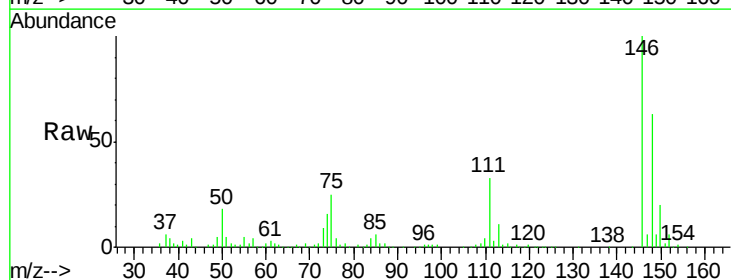


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

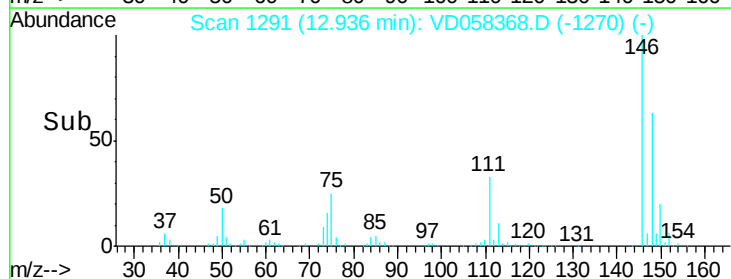
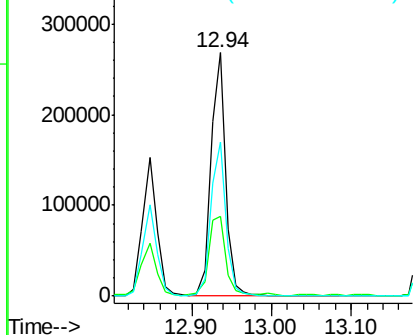


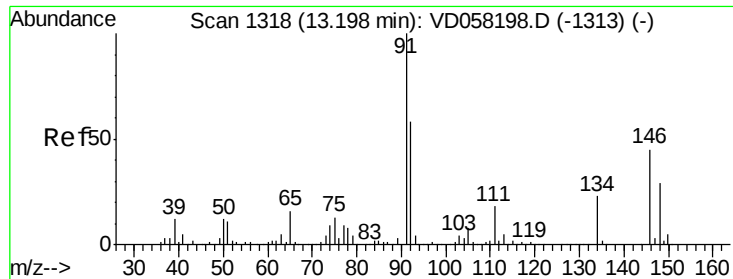
#88
 1,4-Dichlorobenzene
 Concen: 28.516 ug/l
 RT: 12.94 min Scan# 1291
 Delta R.T. 0.00 min
 Lab File: VD058368.D
 Acq: 24 Jun 2018 13:32

Tgt Ion:146 Resp: 348039
 Ion Ratio Lower Upper
 146 100
 111 32.9 17.2 51.5
 148 63.0 33.1 99.3



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

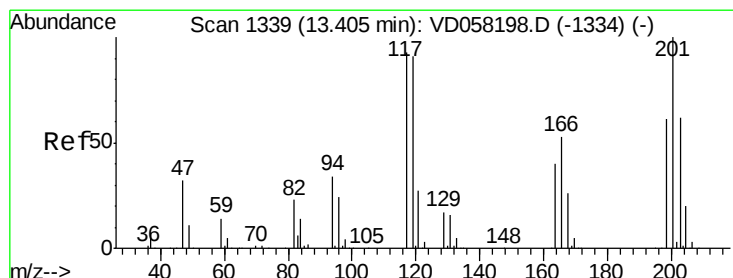
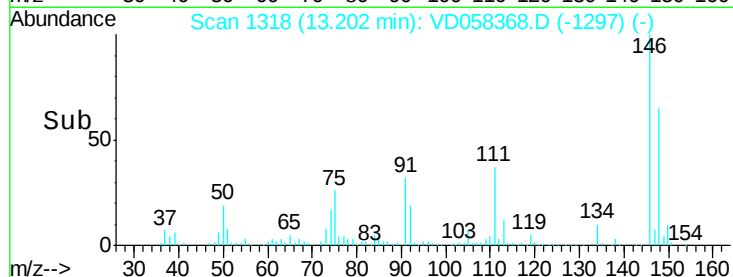
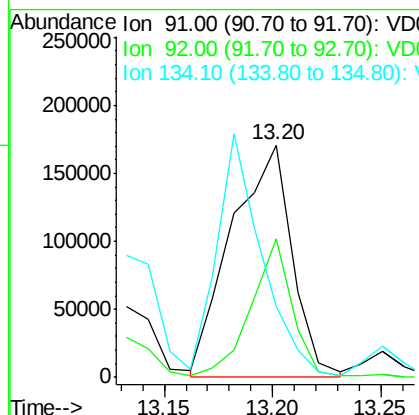
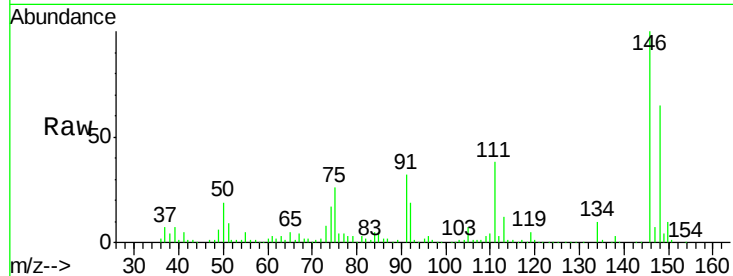




#89
n-Butylbenzene
Concen: 15.363 ug/l
RT: 13.20 min Scan# 1318
Delta R.T. 0.00 min
Lab File: VD058368.D
Acq: 24 Jun 2018 13:32

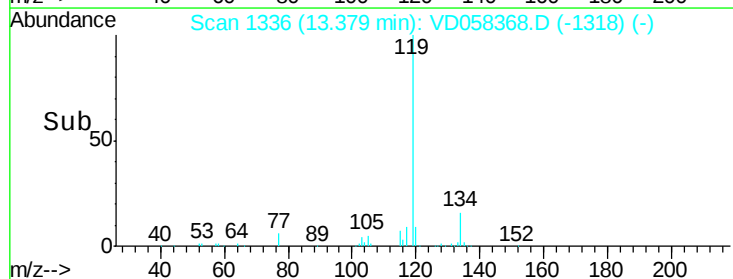
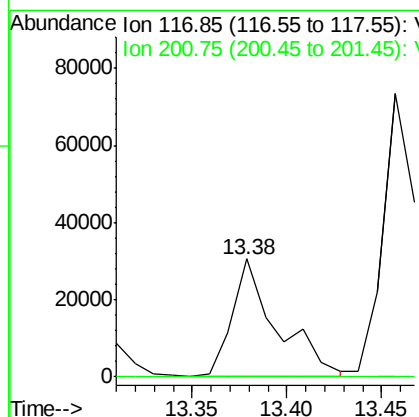
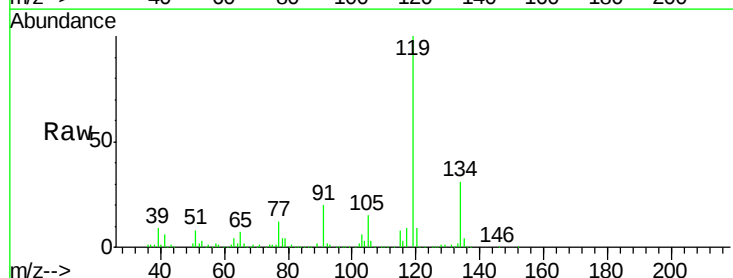
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MSVOA_D
ClientSampleId :

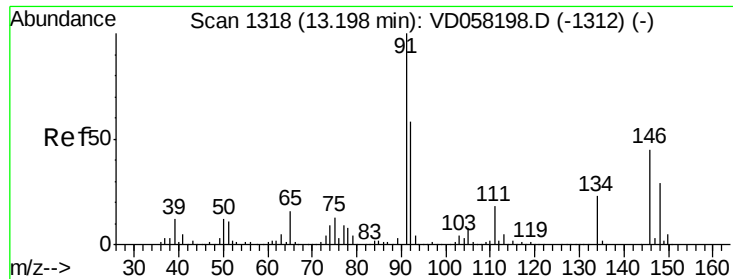
Tot Ion: 91 Resp: 330258
Ion Ratio Lower Upper
91 100
92 59.7 29.2 87.6
134 30.7 11.3 33.8



#90
Hexachloroethane
Concen: 9.451 ug/l
RT: 13.38 min Scan# 1336
Delta R.T. -0.03 min
Lab File: VD058368.D
Acq: 24 Jun 2018 13:32

Tgt Ion: 117 Resp: 50176
Ion Ratio Lower Upper
117 100
201 0.0 53.8 161.4#

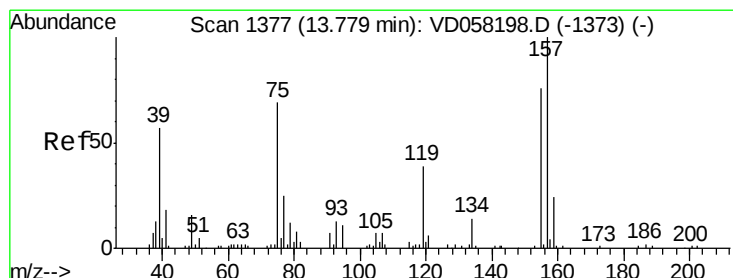
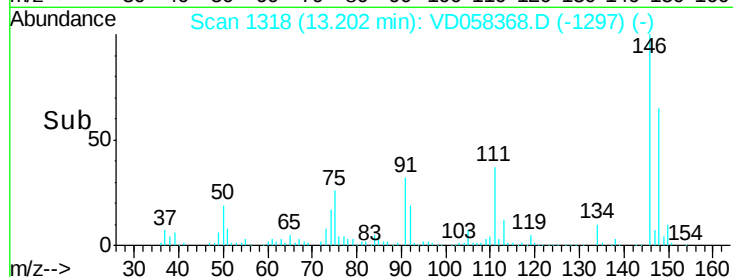
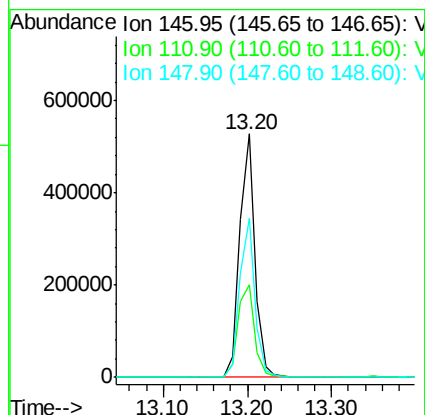
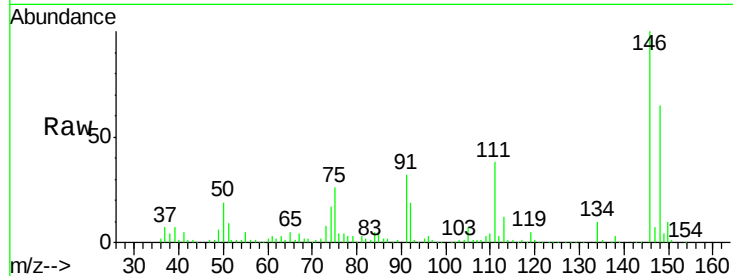




#91
 1,2-Dichlorobenzene
 Concen: 62.377 ug/l
 RT: 13.20 min Scan# 1318
 Delta R.T. 0.00 min
 Lab File: VD058368.D
 Acq: 24 Jun 2018 13:32

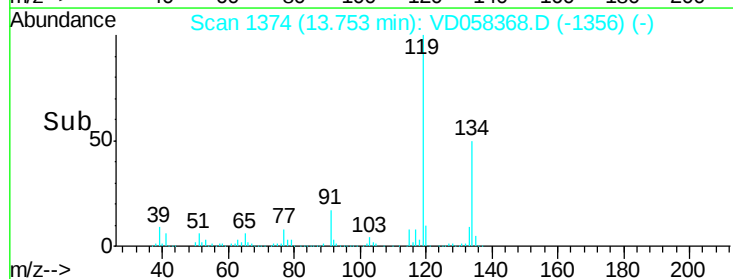
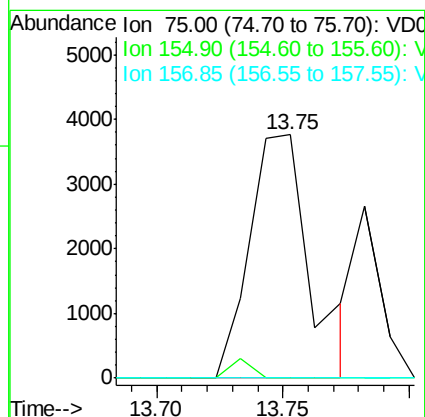
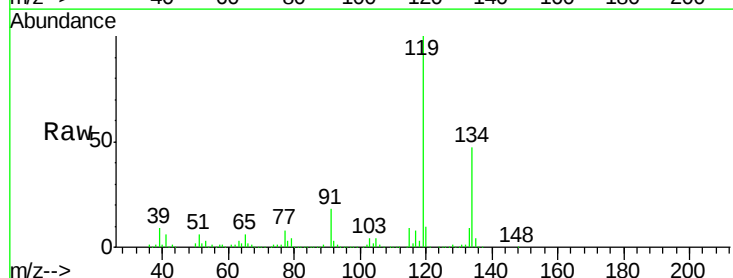
Instrument :
 MSVOA_D
 ClientSampleId :

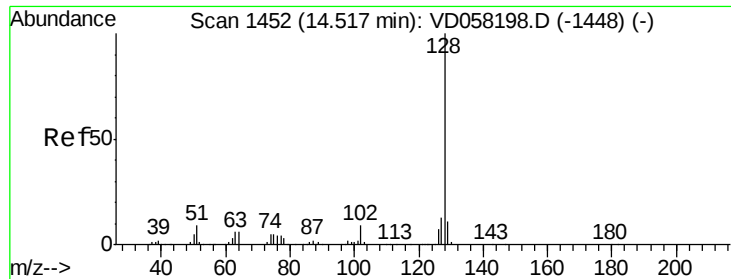
Tot Ion:146 Resp: 663452
 Ion Ratio Lower Upper
 146 100
 111 37.9 19.6 58.7
 148 65.2 32.0 96.2



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 7.079 ug/l
 RT: 13.75 min Scan# 1374
 Delta R.T. -0.03 min
 Lab File: VD058368.D
 Acq: 24 Jun 2018 13:32

Tgt Ion: 75 Resp: 6296
 Ion Ratio Lower Upper
 75 100
 155 0.0 54.5 163.5#
 157 0.0 72.0 215.9#





#95

Naphthalene

Concen: 39.768 ug/l

RT: 14.52 min Scan# 1452

Delta R.T. 0.00 min

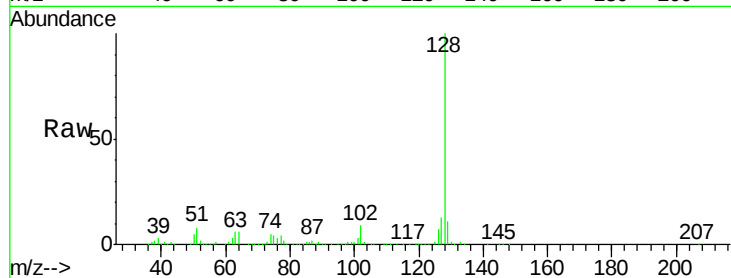
Lab File: VD058368.D

Acq: 24 Jun 2018 13:32

Instrument :

MSVOA_D

ClientSampleId :



Tot Ion:128 Resp: 532884

Ion Ratio Lower Upper

128 100

127 12.8 10.0 15.0

129 10.5 8.7 13.1

