

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032219\
 Data File : VD061272.D
 Acq On : 22 Mar 2019 20:27
 Operator : VA/AP
 Sample : K2071-01
 Misc : 3.67g/5ml/MSVOA D/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 DRUM-1

Quant Time: Mar 22 23:29:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 02:35:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.10	168	516556	50.00	ug/l	0.06
34) 1,4-Difluorobenzene	8.27	114	988728	50.00	ug/l	0.05
63) Chlorobenzene-d5	12.40	117	672087	50.00	ug/l	0.04
72) 1,4-Dichlorobenzene-d4	14.55	152	156929	50.00	ug/l	0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.51	65	222509	51.75	ug/l	0.06
Spiked Amount			Recovery	=	103.50%	
35) Dibromofluoromethane	6.98	113	348651	47.52	ug/l	0.05
Spiked Amount			Recovery	=	95.04%	
50) Toluene-d8	10.45	98	623176	33.82	ug/l	0.05
Spiked Amount			Recovery	=	67.64%	
62) 4-Bromofluorobenzene	13.64	95	7139	1.00	ug/l	0.09
Spiked Amount			Recovery	=	2.00%	

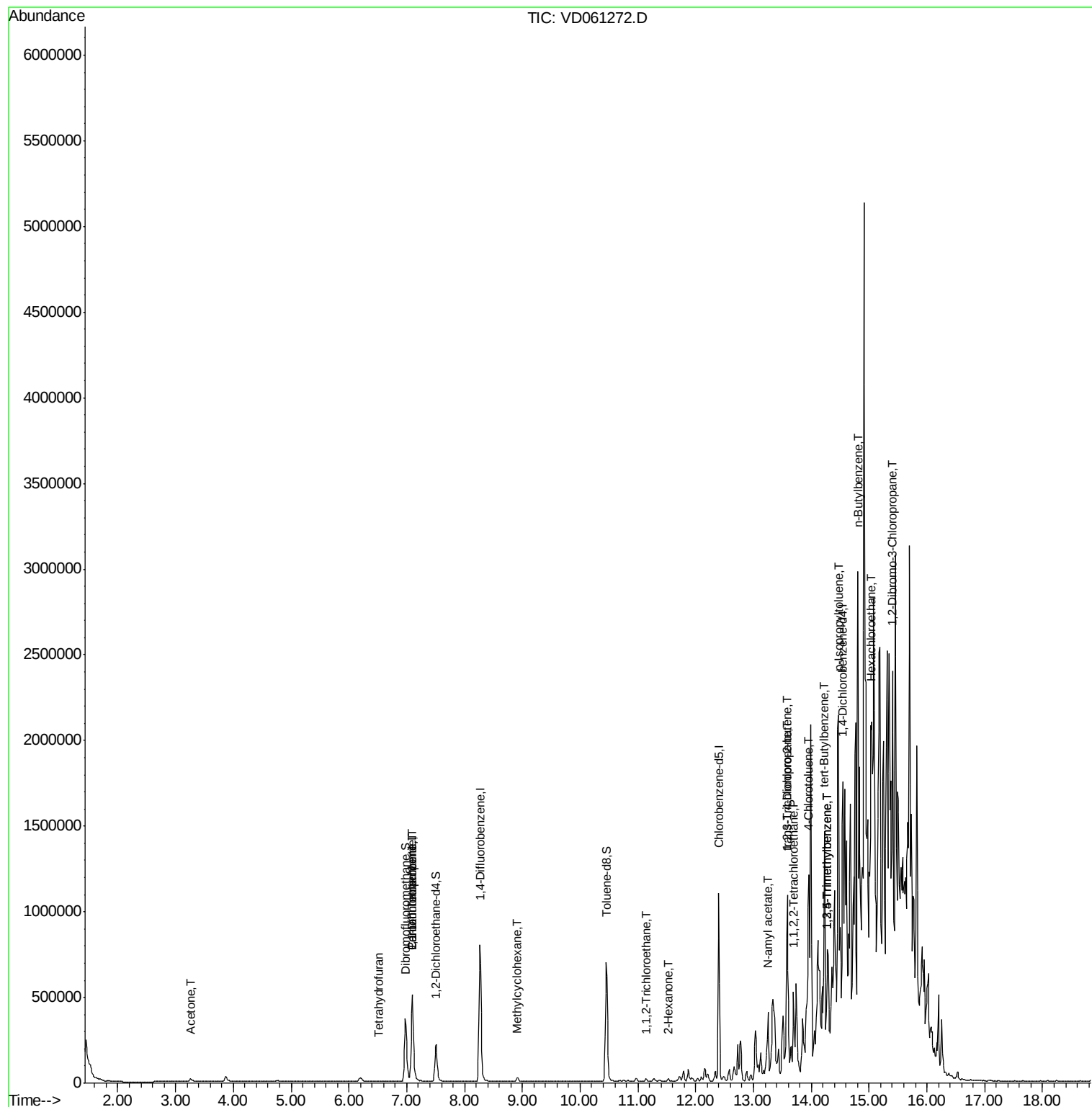
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.23	94	182	Below Cal	#	1
16) Acetone	3.26	43	27954	22.735	ug/l	98
20) Methylene Chloride	3.87	84	20585	Below Cal		96
29) Tetrahydrofuran	6.51	42	1557	2.055	ug/l #	47
36) 1,1-Dichloropropene	7.10	75	36672	4.303	ug/l #	46
38) Carbon Tetrachloride	7.10	117	49199	5.241	ug/l #	14
39) Methylcyclohexane	8.92	83	11768	1.332	ug/l	96
55) 1,1,2-Trichloroethane	11.14	97	8210	1.862	ug/l #	15
59) 2-Hexanone	11.52	43	5769	2.324	ug/l #	25
74) N-amyl acetate	13.25	43	66431	20.861	ug/l #	54
75) 1,1,2,2-Tetrachloroethane	13.69	83	8492	3.849	ug/l #	81
76) 1,2,3-Trichloropropane	13.58	75	80034	35.449	ug/l #	46
80) 1,3,5-Trimethylbenzene	14.26	105	12475	1.453	ug/l	90
81) trans-1,4-Dichloro-2-buten	13.58	75	80049	120.263	ug/l #	21
82) 4-Chlorotoluene	13.96	91	29821	3.461	ug/l #	42
83) tert-Butylbenzene	14.21	119	10527	1.120	ug/l	86
84) 1,2,4-Trimethylbenzene	14.26	105	12475	1.453	ug/l	90
86) p-Isopropyltoluene	14.47	119	487709	52.015	ug/l	96
89) n-Butylbenzene	14.80	91	167615	18.615	ug/l #	1
90) Hexachloroethane	15.03	117	55371	20.914	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	15.40	75	7383	27.766	ug/l #	1

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

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Quant Title : SW846 8260
QLast Update : Fri Mar 08 02:35:39 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.10 min Scan# 577

Delta R.T. 0.06 min

Lab File: VD061272.D

Acq: 22 Mar 2019 20:27

Instrument :

MSVOA_D

ClientSampleId :

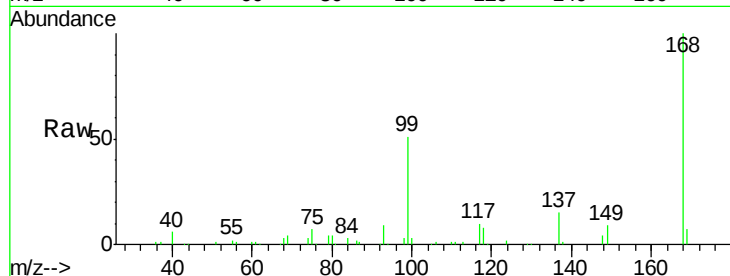
DRUM-1

Tot Ion:168 Resp: 516556

Ion Ratio Lower Upper

168 100

99 51.3 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.10

200000

150000

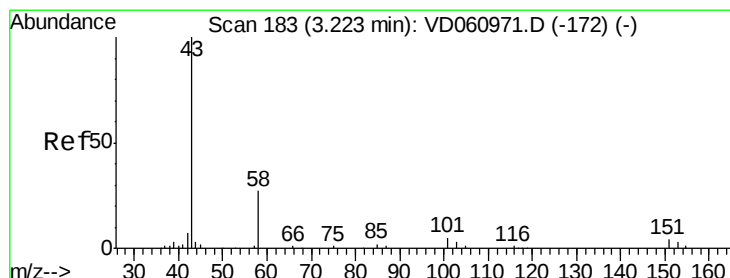
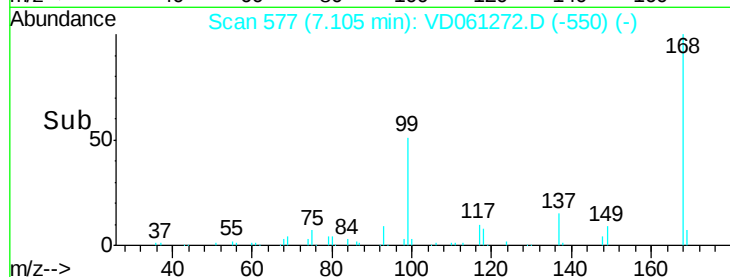
100000

50000

0

Time-->

7.00 7.10 7.20



#16

Acetone

Concen: 22.735 ug/l

RT: 3.26 min Scan# 186

Delta R.T. 0.03 min

Lab File: VD061272.D

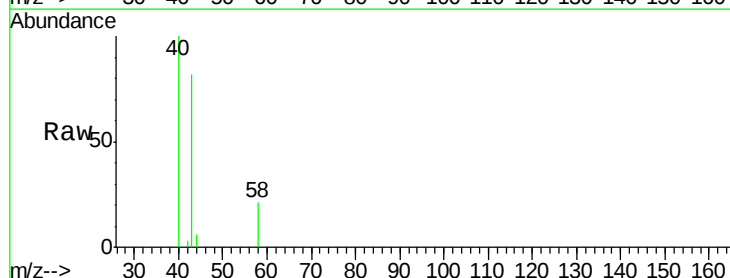
Acq: 22 Mar 2019 20:27

Tgt Ion: 43 Resp: 27954

Ion Ratio Lower Upper

43 100

58 26.0 21.6 32.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.26

10000

8000

6000

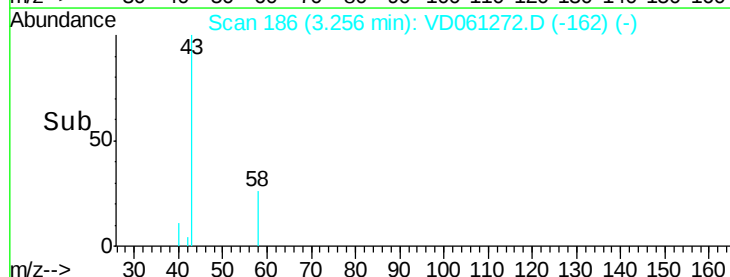
4000

2000

0

Time-->

3.20 3.30 3.40

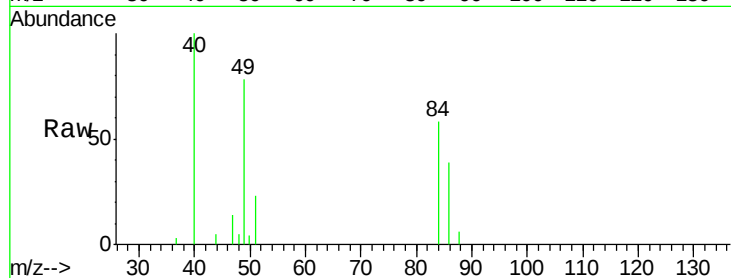




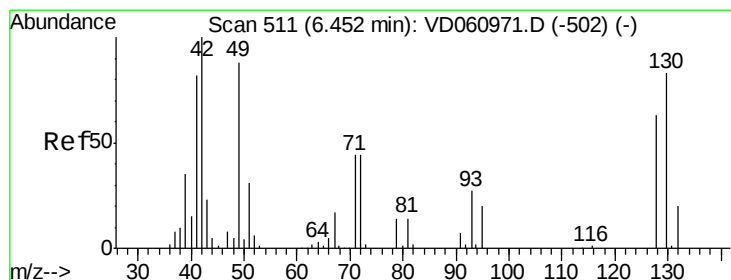
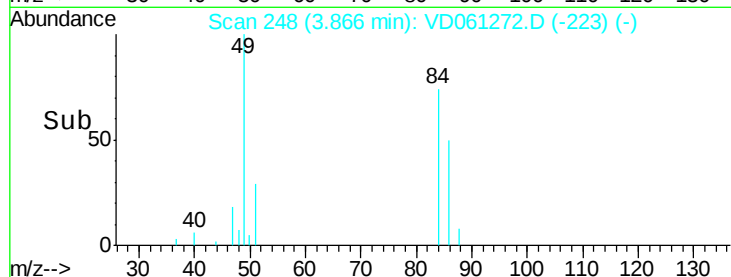
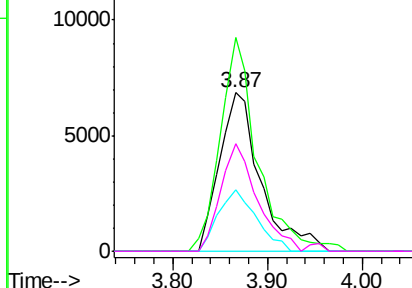
#20
Methylene Chloride
Concen: Below Cal
RT: 3.87 min Scan# 248
Delta R.T. 0.04 min
Lab File: VD061272.D
Acq: 22 Mar 2019 20:27

Instrument :
MSVOA_D
ClientSampleId :
DRUM-1

Tot Ion: 84 Resp: 20585
Ion Ratio Lower Upper
84 100
49 135.0 104.2 156.2
51 38.7 32.3 48.5
86 67.7 52.3 78.5

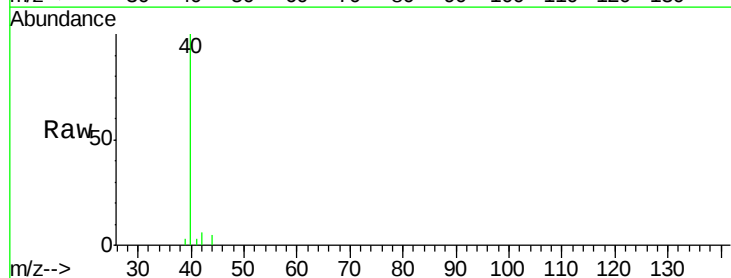


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

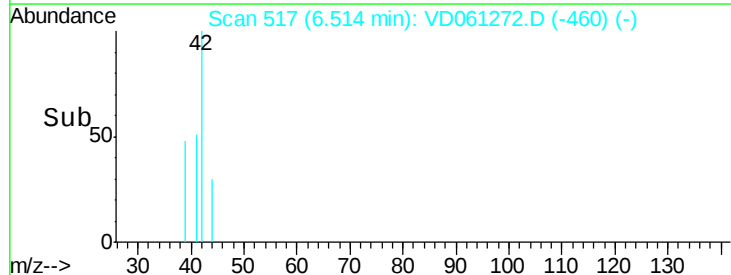
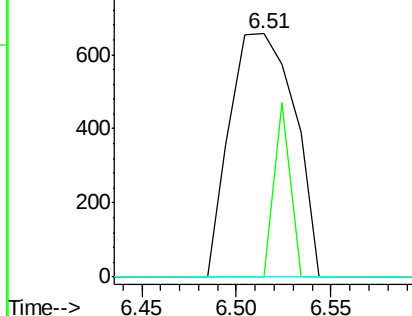


#29
Tetrahydrofuran
Concen: 2.055 ug/l
RT: 6.51 min Scan# 517
Delta R.T. 0.06 min
Lab File: VD061272.D
Acq: 22 Mar 2019 20:27

Tgt Ion: 42 Resp: 1557
Ion Ratio Lower Upper
42 100
72 17.9 34.5 51.7#
71 0.0 33.8 50.6#



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

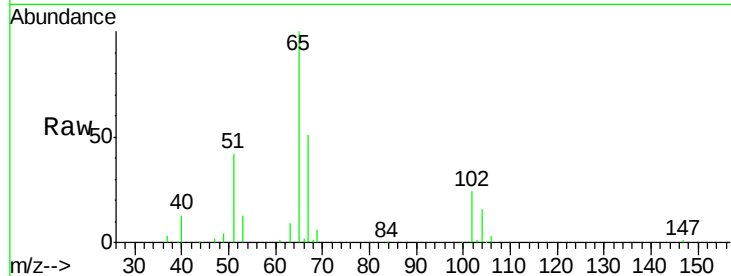




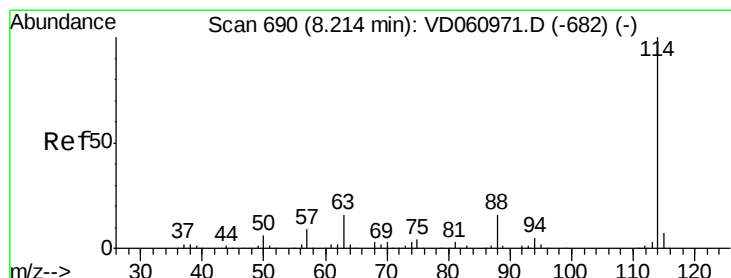
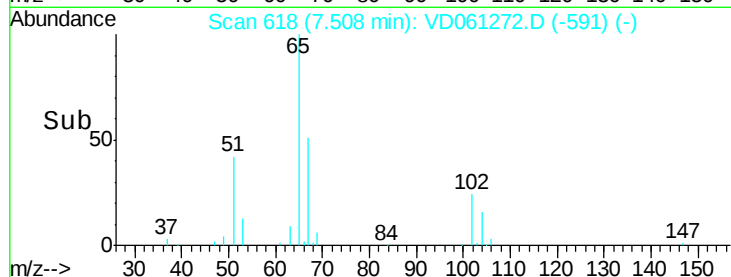
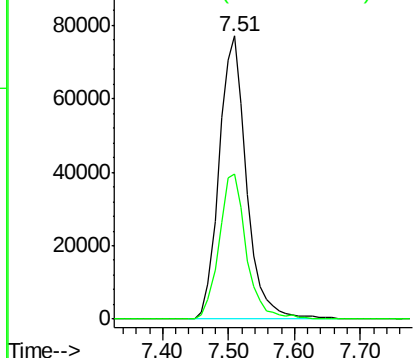
#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 7.51 min Scan# 618
 Delta R.T. 0.06 min
 Lab File: VD061272.D
 Acq: 22 Mar 2019 20:27

Instrument :
 MSVOA_D
 ClientSampleId :
 DRUM-1

Tot Ion: 65 Resp: 222509
 Ion Ratio Lower Upper
 65 100
 67 51.1 0.0 105.2

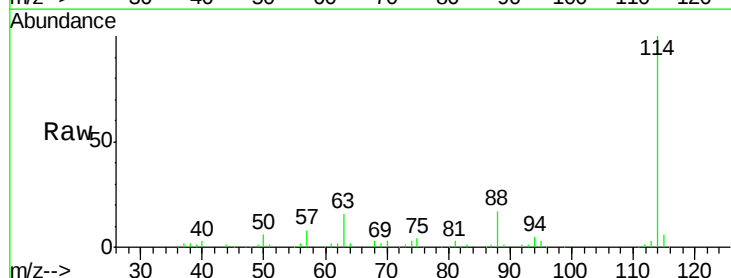


Abundance Ion 64.95 (64.65 to 65.65): VDC
 Ion 66.90 (66.60 to 67.60): VDC

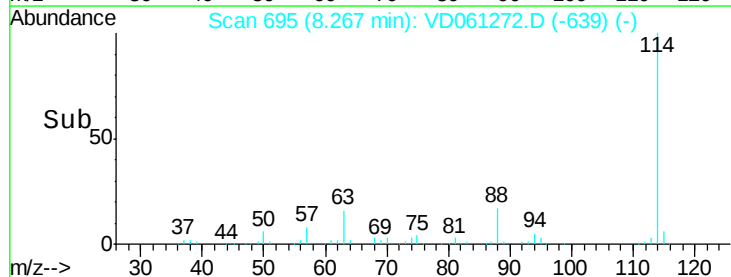
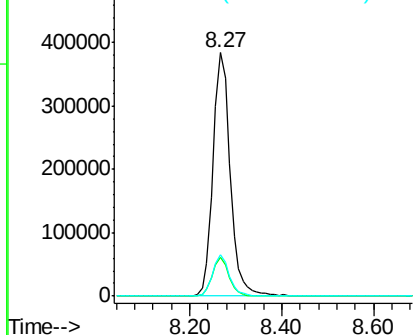


#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.27 min Scan# 695
 Delta R.T. 0.05 min
 Lab File: VD061272.D
 Acq: 22 Mar 2019 20:27

Tgt Ion: 114 Resp: 988728
 Ion Ratio Lower Upper
 114 100
 63 15.9 0.0 31.4
 88 17.0 0.0 33.0



Abundance Ion 114.00 (113.70 to 114.70): VDC
 Ion 62.95 (62.65 to 63.65): VDC
 Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.98 min Scan# 564

Delta R.T. 0.05 min

Lab File: VD061272.D

Acq: 22 Mar 2019 20:27

Instrument :

MSVOA_D

ClientSampleId :

DRUM-1

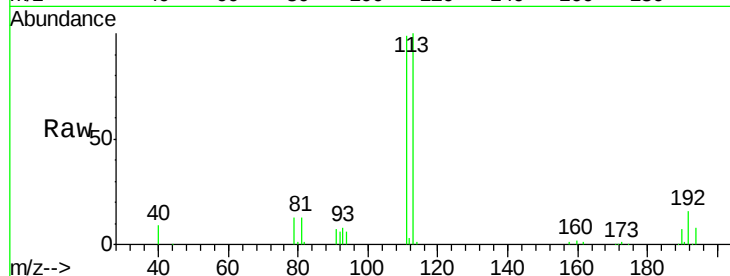
Tot Ion:113 Resp: 348651

Ion Ratio Lower Upper

113 100

111 99.4 84.2 126.4

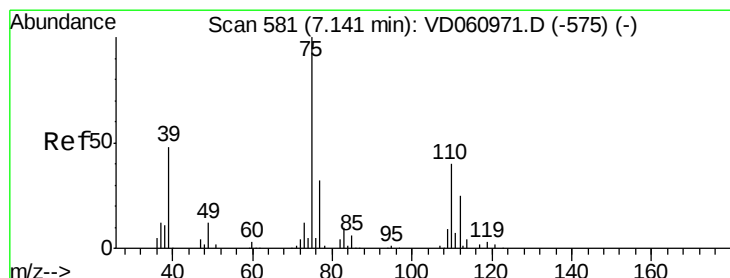
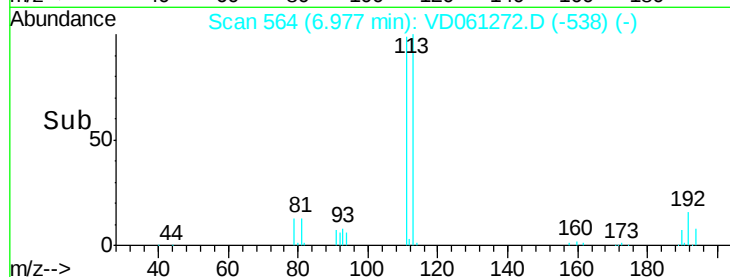
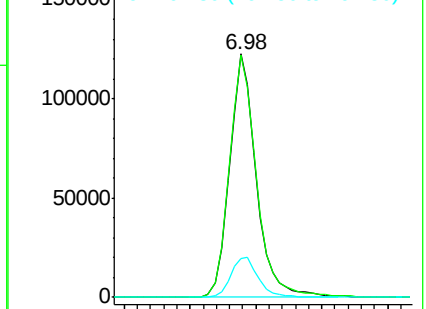
192 16.1 13.1 19.7



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 4.303 ug/l

RT: 7.10 min Scan# 576

Delta R.T. -0.05 min

Lab File: VD061272.D

Acq: 22 Mar 2019 20:27

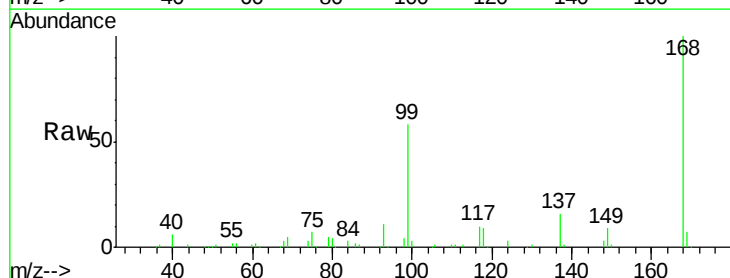
Tgt Ion: 75 Resp: 36672

Ion Ratio Lower Upper

75 100

110 7.4 19.7 59.1#

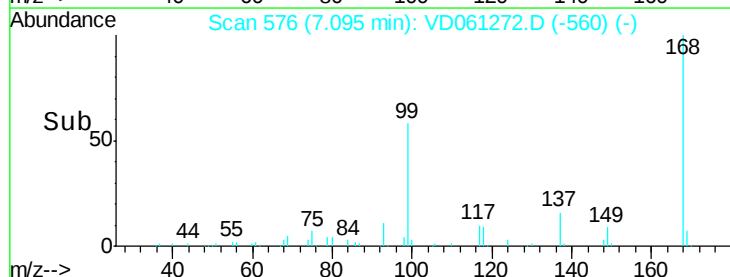
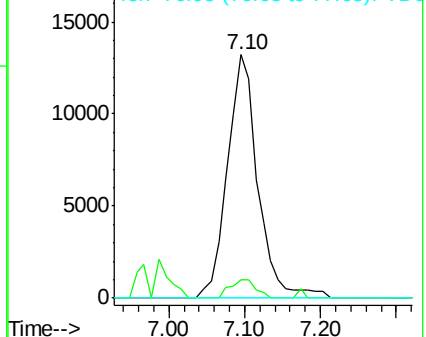
77 0.0 24.7 37.1#

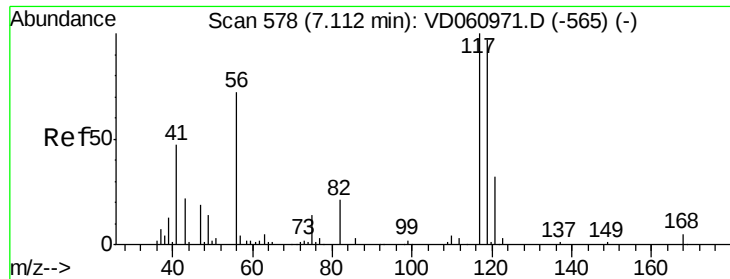


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

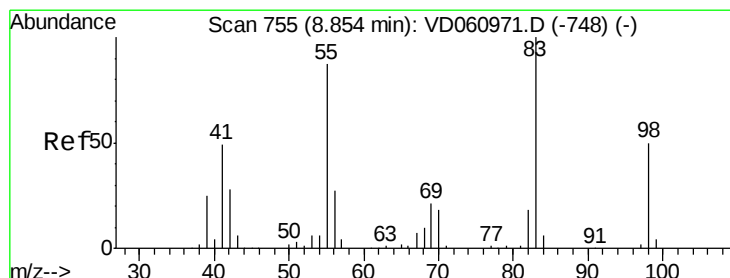
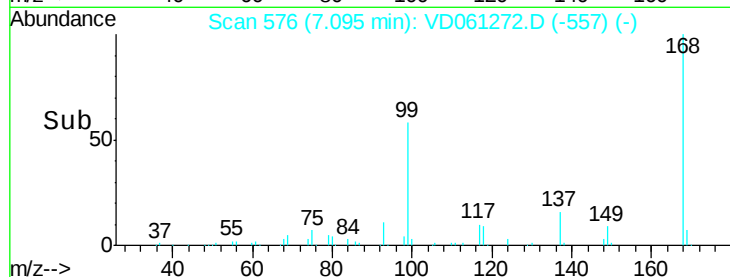
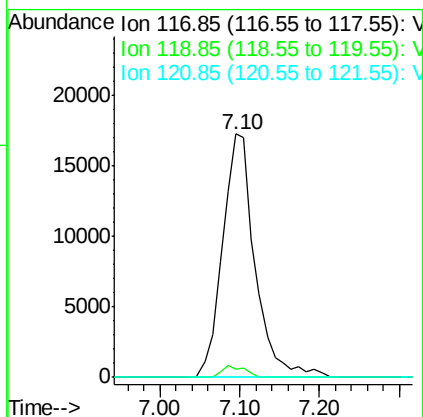
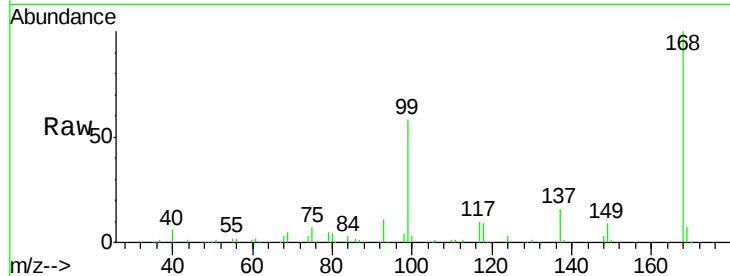




#38
Carbon Tetrachloride
Concen: 5.241 ug/l
RT: 7.10 min Scan# 576
Delta R.T. -0.02 min
Lab File: VD061272.D
Acq: 22 Mar 2019 20:27

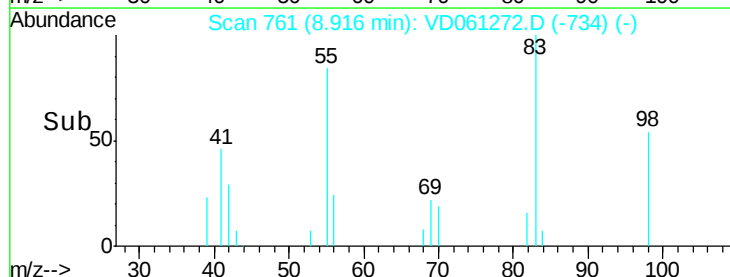
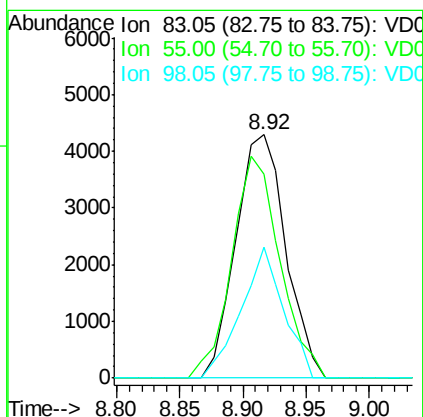
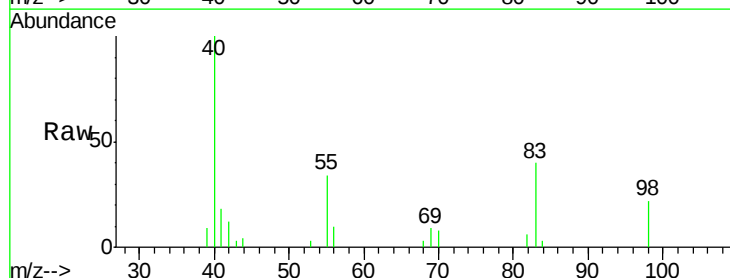
Instrument :
MSVOA_D
ClientSampleId :
DRUM-1

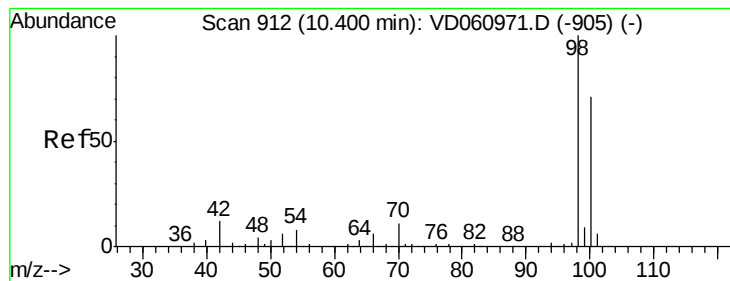
Tot Ion:117 Resp: 49199
Ion Ratio Lower Upper
117 100
119 3.6 77.8 116.8#
121 0.0 25.3 37.9#



#39
Methylcyclohexane
Concen: 1.332 ug/l
RT: 8.92 min Scan# 761
Delta R.T. 0.06 min
Lab File: VD061272.D
Acq: 22 Mar 2019 20:27

Tgt Ion: 83 Resp: 11768
Ion Ratio Lower Upper
83 100
55 83.9 69.6 104.4
98 53.8 40.0 60.0





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.45 min Scan# 917

Delta R.T. 0.05 min

Lab File: VD061272.D

Acq: 22 Mar 2019 20:27

Instrument :

MSVOA_D

ClientSampleId :

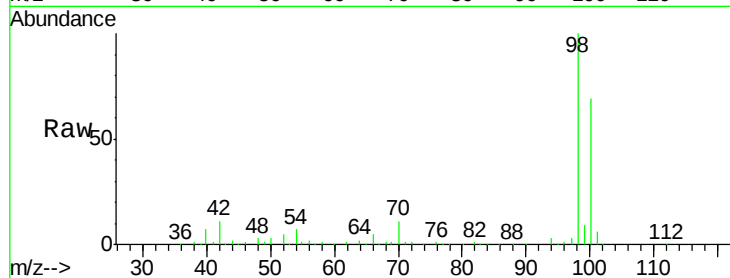
DRUM-1

Tot Ion: 98 Resp: 623176

Ion Ratio Lower Upper

98 100

100 69.0 57.4 86.2



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

10.45

250000

200000

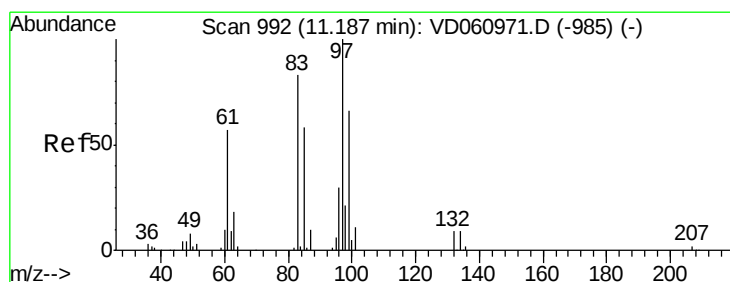
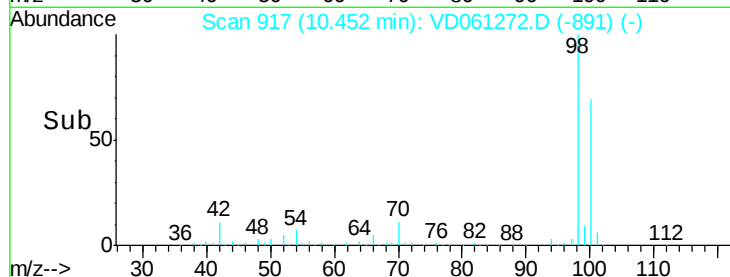
150000

100000

50000

0

Time--> 10.30 10.40 10.50 10.60



#55

1,1,2-Trichloroethane

Concen: 1.862 ug/l

RT: 11.14 min Scan# 987

Delta R.T. -0.05 min

Lab File: VD061272.D

Acq: 22 Mar 2019 20:27

Tgt Ion: 97 Resp: 8210

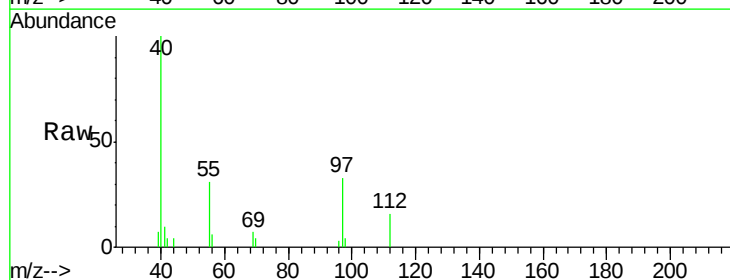
Ion Ratio Lower Upper

97 100

83 0.0 66.6 100.0#

85 0.0 46.4 69.6#

99 0.0 52.4 78.6#



Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC

5000

4000

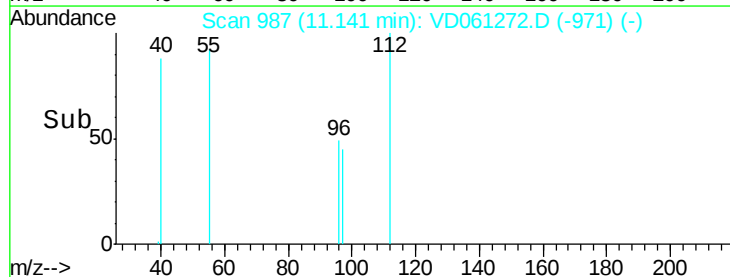
3000

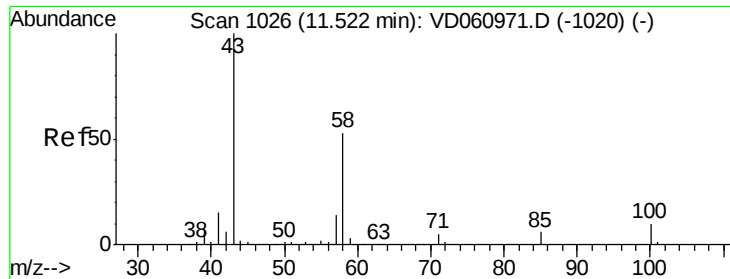
2000

1000

0

Time--> 11.05 11.10 11.15 11.20

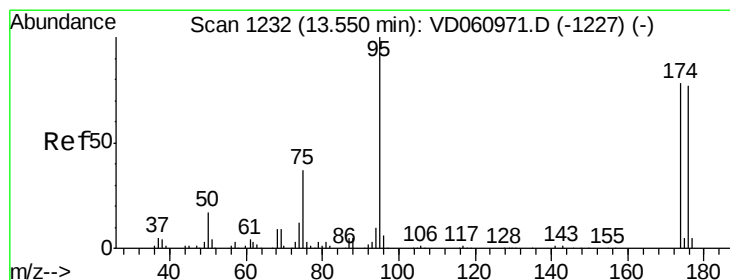
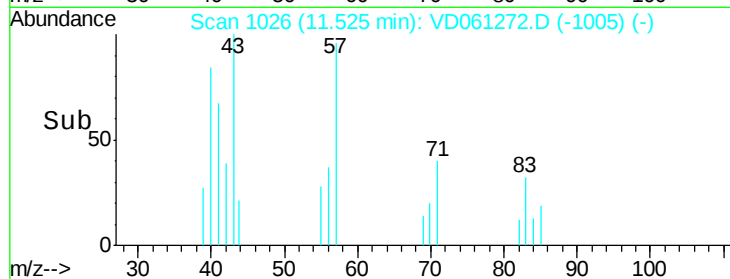
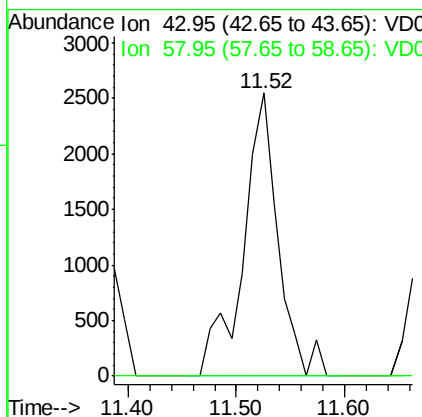
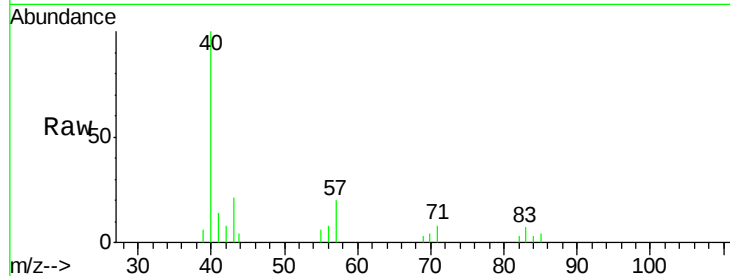




#59
2-Hexanone
Concen: 2.324 ug/l
RT: 11.52 min Scan# 1026
Delta R.T. 0.00 min
Lab File: VD061272.D
Acq: 22 Mar 2019 20:27

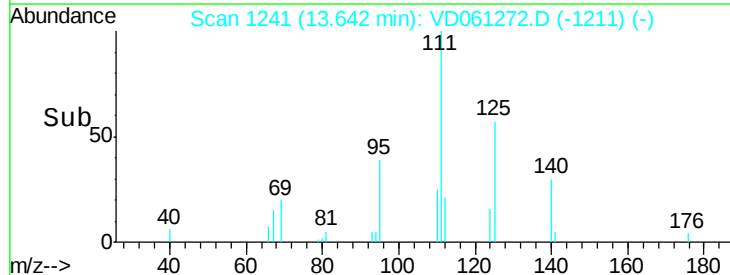
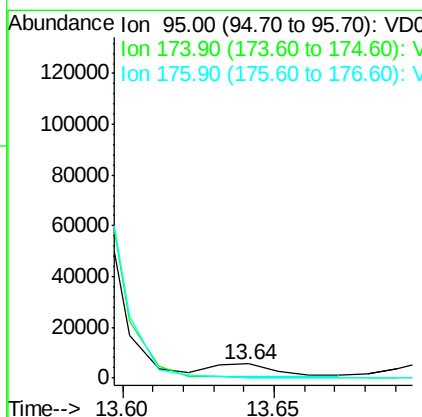
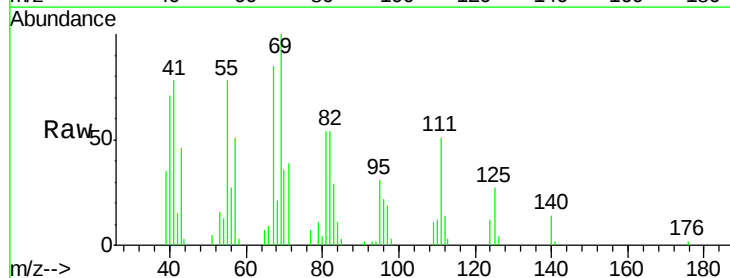
Instrument :
MSVOA_D
ClientSampled :
DRUM-1

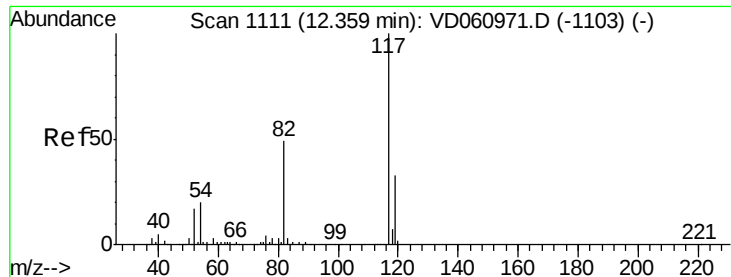
Tot Ion: 43 Resp: 5769
Ion Ratio Lower Upper
43 100
58 0.0 26.5 79.5#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.64 min Scan# 1241
Delta R.T. 0.09 min
Lab File: VD061272.D
Acq: 22 Mar 2019 20:27

Tgt Ion: 95 Resp: 7139
Ion Ratio Lower Upper
95 100
174 0.0 0.0 155.6
176 6.3 0.0 153.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.40 min Scan# 1115

Delta R.T. 0.04 min

Lab File: VD061272.D

Acq: 22 Mar 2019 20:27

Instrument :

MSVOA_D

ClientSampleId :

DRUM-1

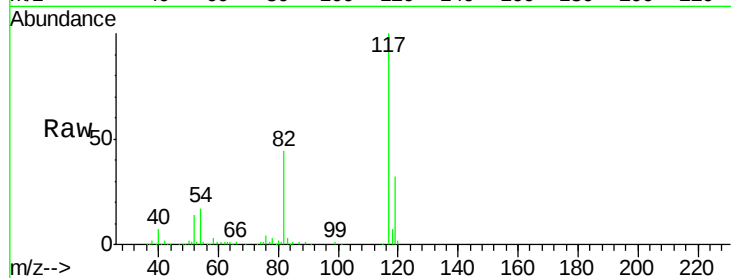
Tot Ion:117 Resp: 672087

Ion Ratio Lower Upper

117 100

82 44.4 38.9 58.3

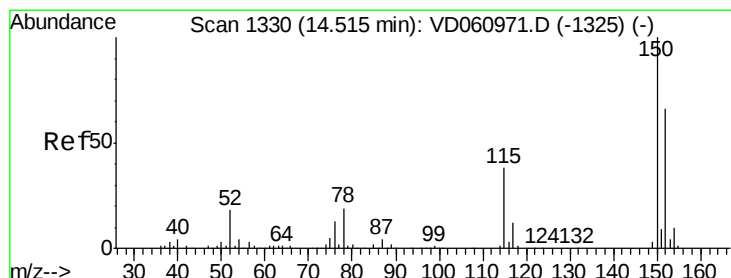
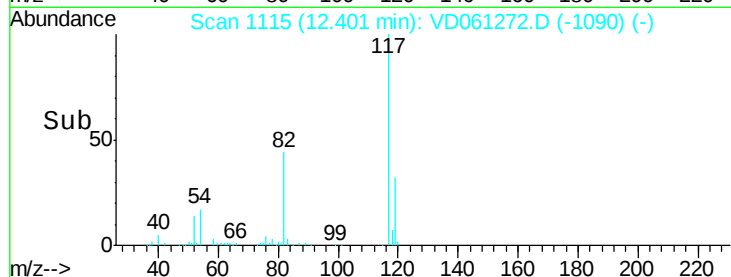
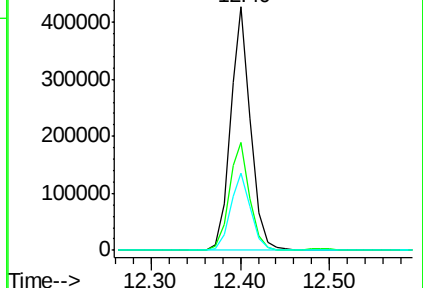
119 31.5 26.6 39.8



Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.55 min Scan# 1333

Delta R.T. 0.03 min

Lab File: VD061272.D

Acq: 22 Mar 2019 20:27

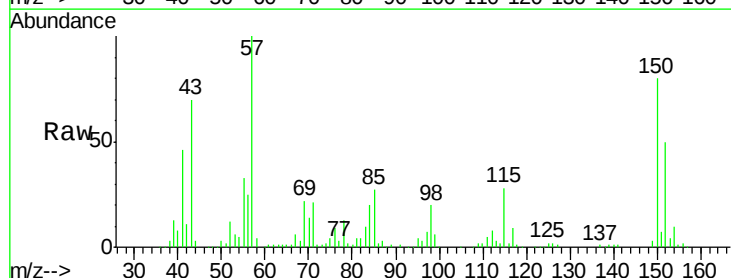
Tgt Ion:152 Resp: 156929

Ion Ratio Lower Upper

152 100

115 55.4 28.6 85.9

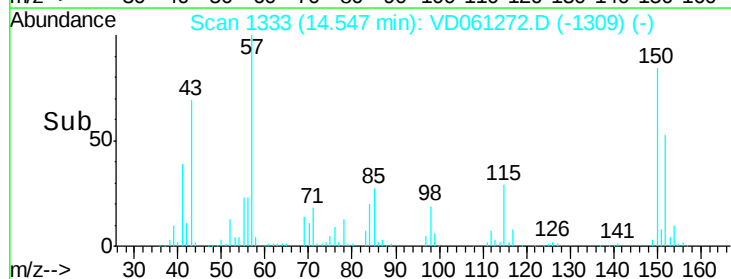
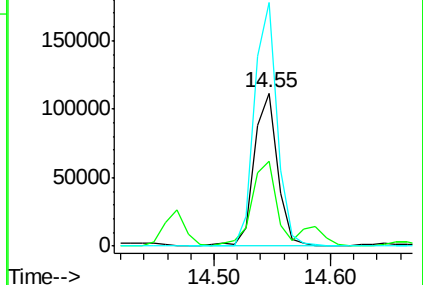
150 158.8 0.0 310.6

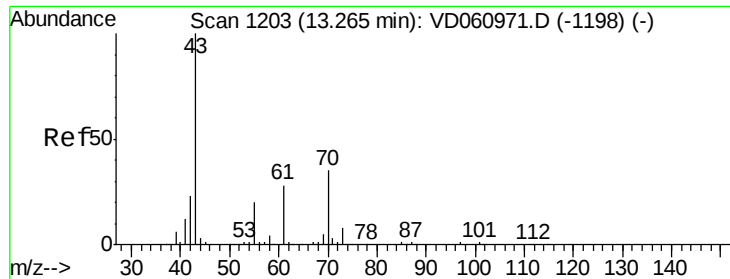


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 20.861 ug/l

RT: 13.25 min Scan# 1201

Delta R.T. -0.02 min

Lab File: VD061272.D

Acq: 22 Mar 2019 20:27

Instrument :

MSVOA_D

ClientSampleId :

DRUM-1

Tot Ion: 43 Resp: 66431

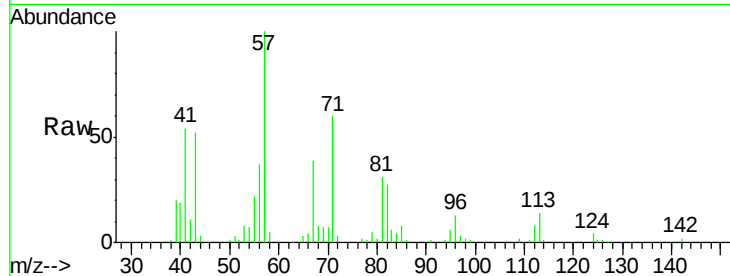
Ion Ratio Lower Upper

43 100

70 12.5 27.7 41.5#

55 42.3 16.2 24.2#

61 0.0 22.3 33.5#

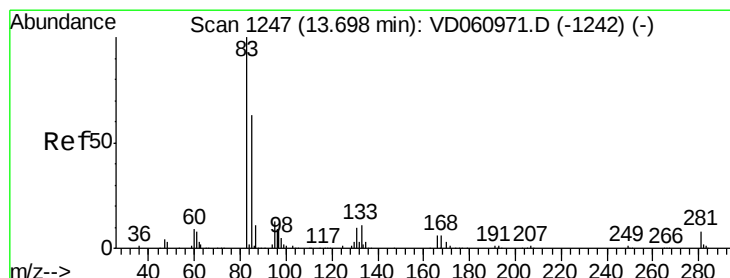
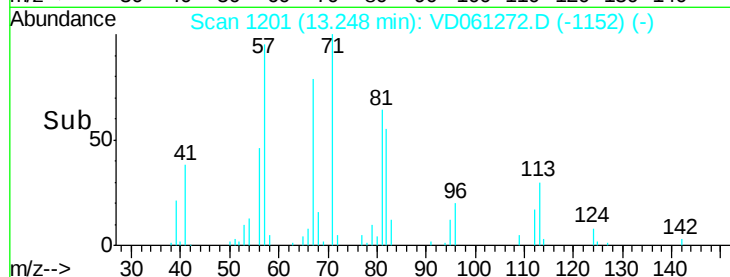
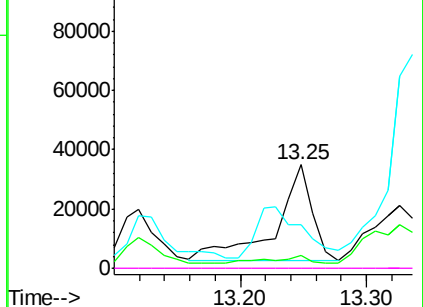


Abundance Ion 42.95 (42.65 to 43.65): VDC

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: 3.849 ug/l

RT: 13.69 min Scan# 1246

Delta R.T. -0.01 min

Lab File: VD061272.D

Acq: 22 Mar 2019 20:27

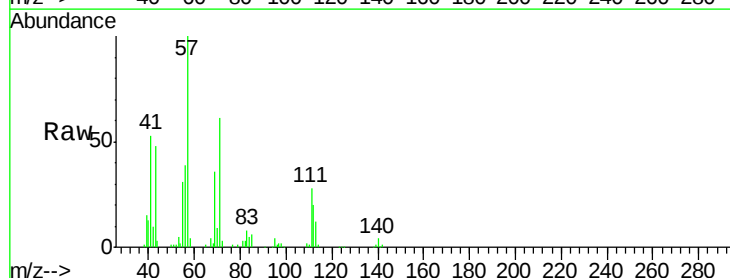
Tgt Ion: 83 Resp: 8492

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.3#

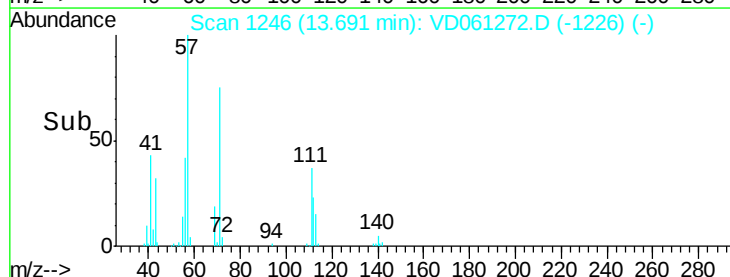
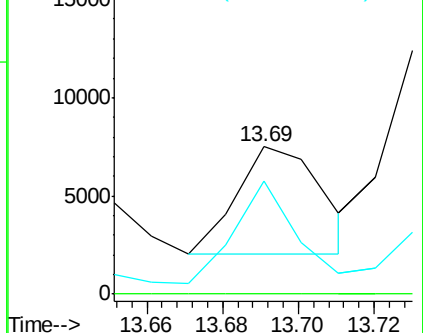
85 76.5 31.5 94.5

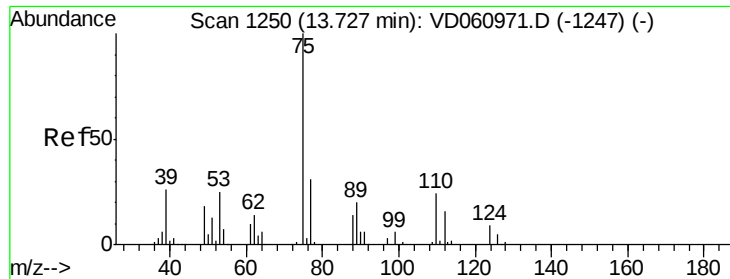


Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): V

Ion 84.95 (84.65 to 85.65): VDC

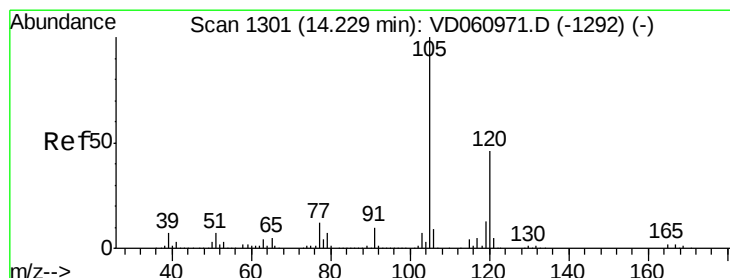
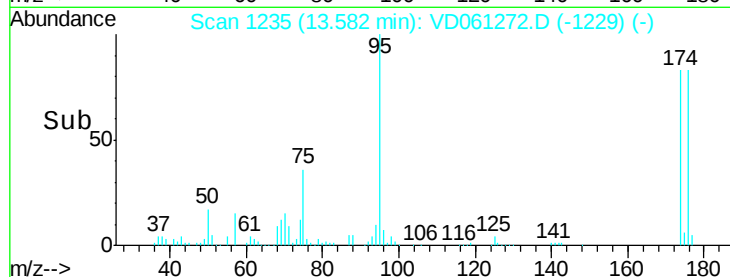
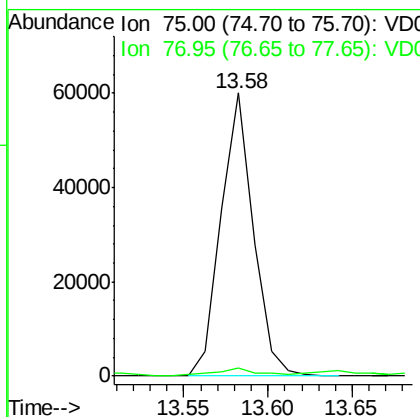
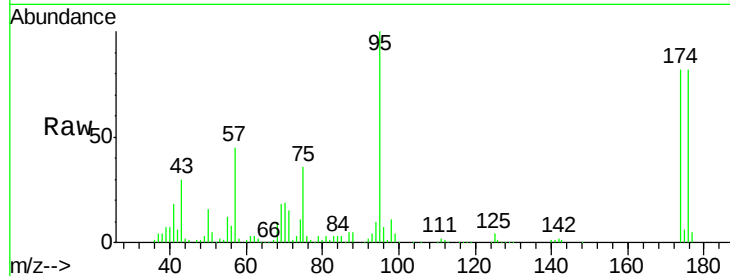




#76
 1,2,3-Trichloropropane
 Concen: 35.449 ug/l
 RT: 13.58 min Scan# 1235
 Delta R.T. -0.14 min
 Lab File: VD061272.D
 Acq: 22 Mar 2019 20:27

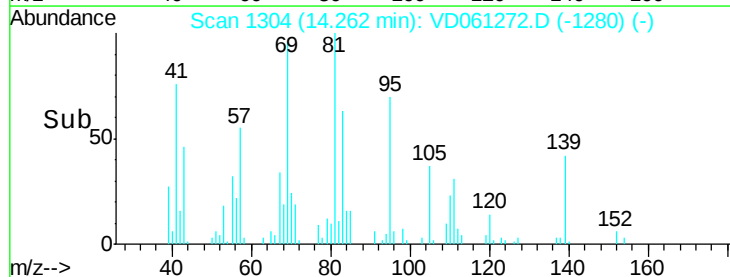
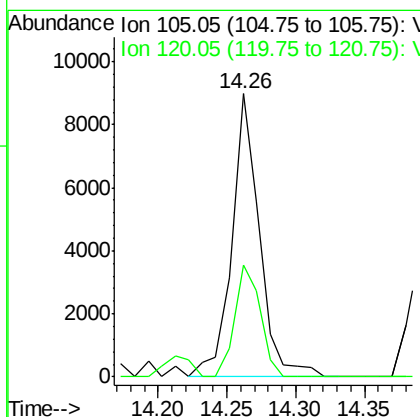
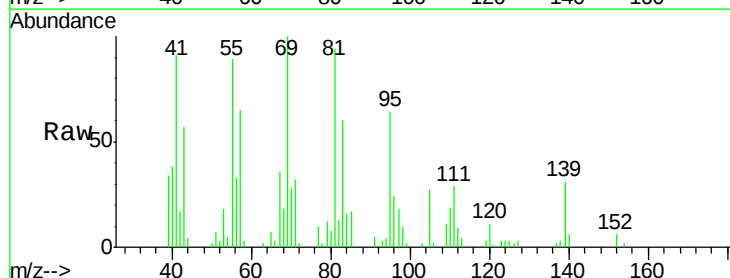
Instrument :
 MSVOA_D
 ClientSampleId :
 DRUM-1

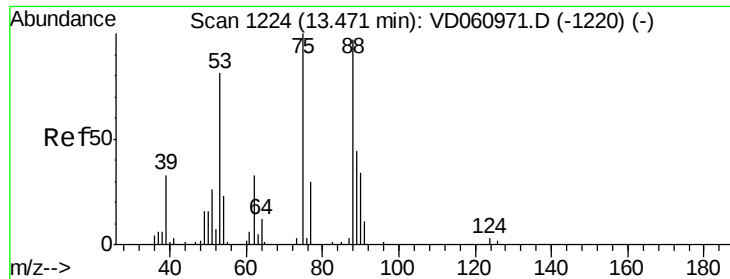
Tot Ion: 75 Resp: 80034
 Ion Ratio Lower Upper
 75 100
 77 2.7 16.6 49.7#



#80
 1,3,5-Trimethylbenzene
 Concen: 1.453 ug/l
 RT: 14.26 min Scan# 1304
 Delta R.T. 0.03 min
 Lab File: VD061272.D
 Acq: 22 Mar 2019 20:27

Tgt Ion: 105 Resp: 12475
 Ion Ratio Lower Upper
 105 100
 120 39.3 22.9 68.5





#81

trans-1,4-Dichloro-2-butene

Concen: 120.263 ug/l

RT: 13.58 min Scan# 1235

Delta R.T. 0.11 min

Lab File: VD061272.D

Acq: 22 Mar 2019 20:27

Instrument :

MSVOA_D

ClientSampleId :

DRUM-1

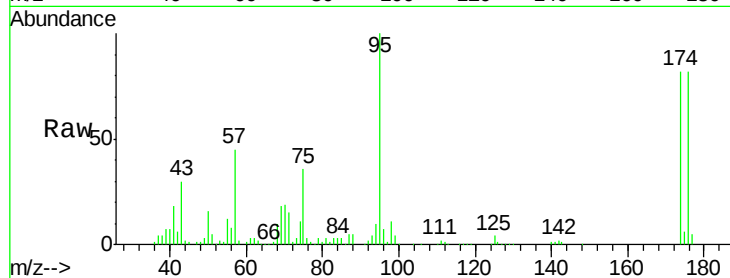
Tot Ion: 75 Resp: 80049

Ion Ratio Lower Upper

75 100

53 4.9 64.4 96.6#

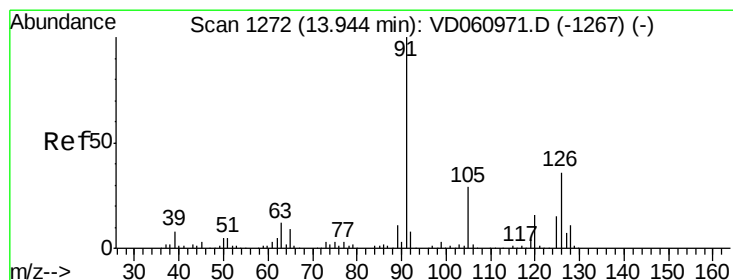
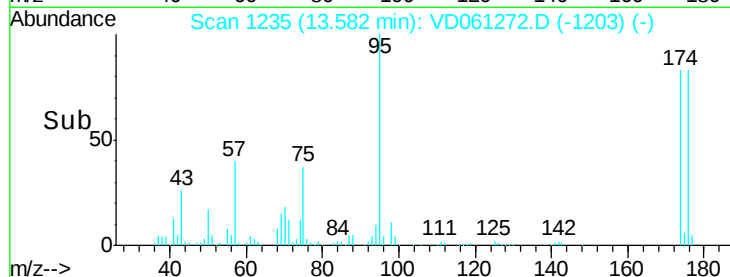
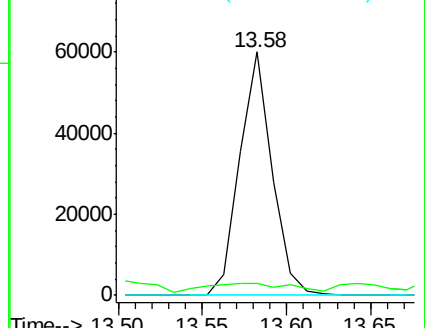
89 0.0 34.8 52.2#



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: 3.461 ug/l

RT: 13.96 min Scan# 1273

Delta R.T. 0.01 min

Lab File: VD061272.D

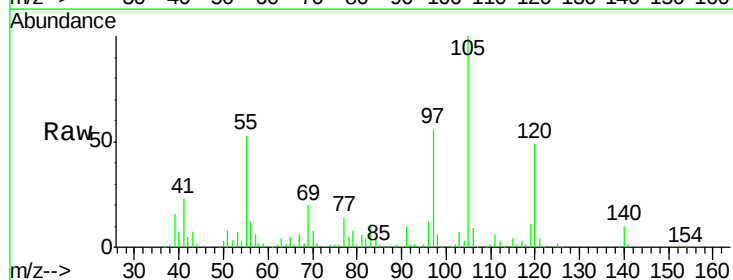
Acq: 22 Mar 2019 20:27

Tgt Ion: 91 Resp: 29821

Ion Ratio Lower Upper

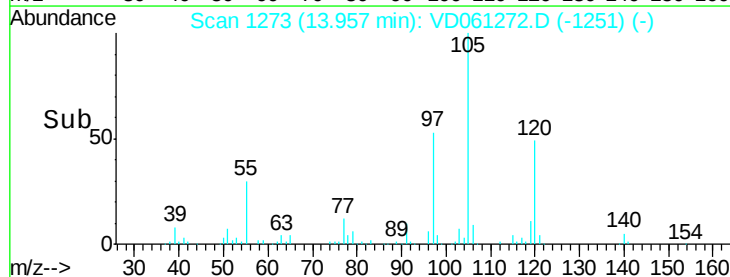
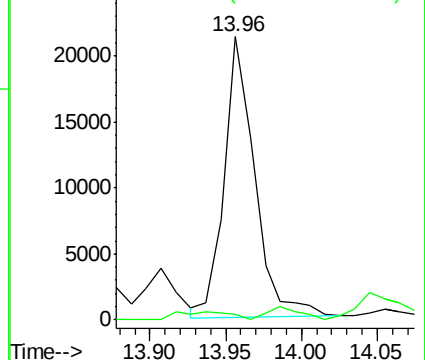
91 100

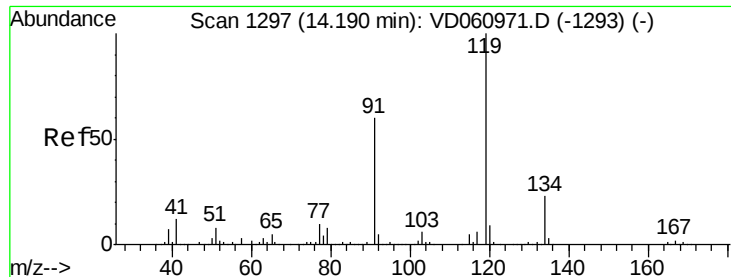
126 1.8 18.0 54.0#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V





#83

tert-Butylbenzene

Concen: 1.120 ug/l

RT: 14.21 min Scan# 1299

Delta R.T. 0.02 min

Lab File: VD061272.D

Acq: 22 Mar 2019 20:27

Instrument :

MSVOA_D

ClientSampleId :

DRUM-1

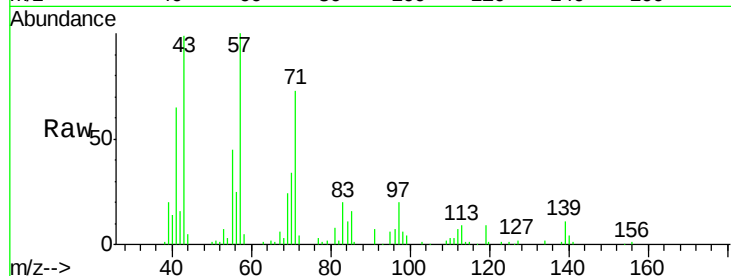
Tot Ion:119 Resp: 10527

Ion Ratio Lower Upper

119 100

91 74.2 30.1 90.3

134 24.5 11.6 34.7

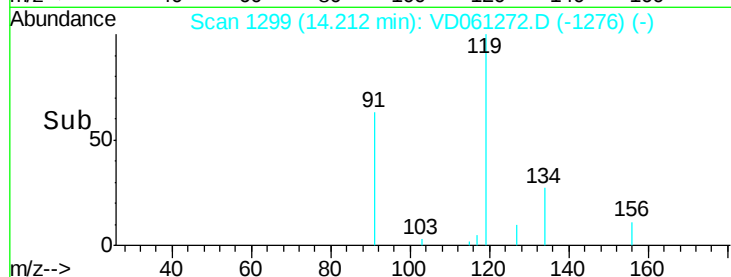


Abundance Ion 119.05 (118.75 to 119.75): V

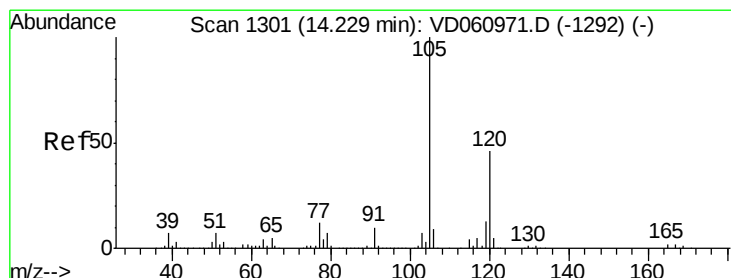
Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V

Time-->



Time-->



#84

1,2,4-Trimethylbenzene

Concen: 1.453 ug/l

RT: 14.26 min Scan# 1304

Delta R.T. 0.03 min

Lab File: VD061272.D

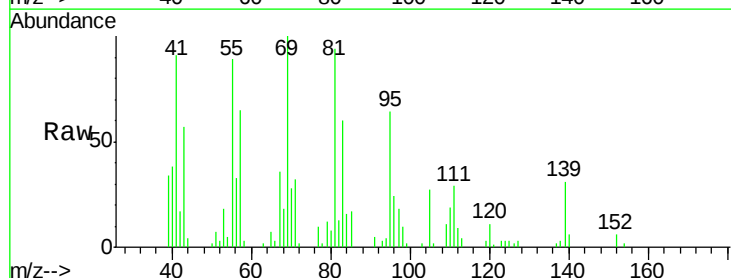
Acq: 22 Mar 2019 20:27

Tgt Ion:105 Resp: 12475

Ion Ratio Lower Upper

105 100

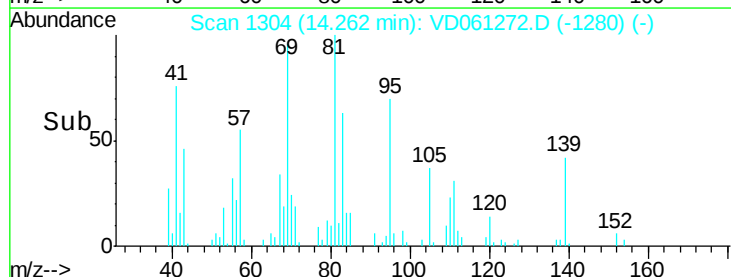
120 39.3 22.9 68.5



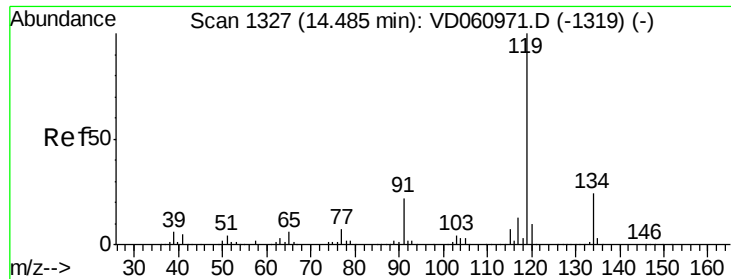
Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

Time-->



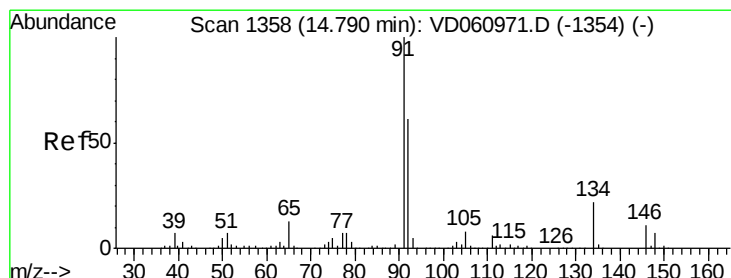
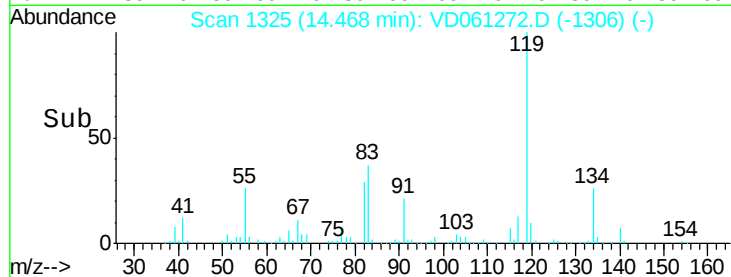
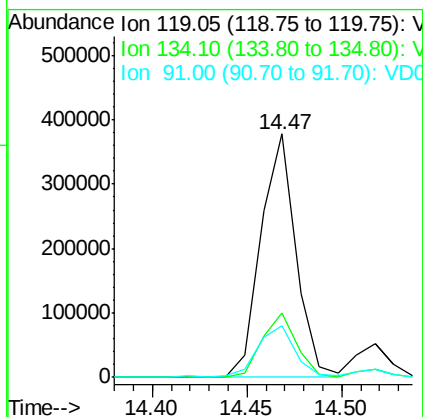
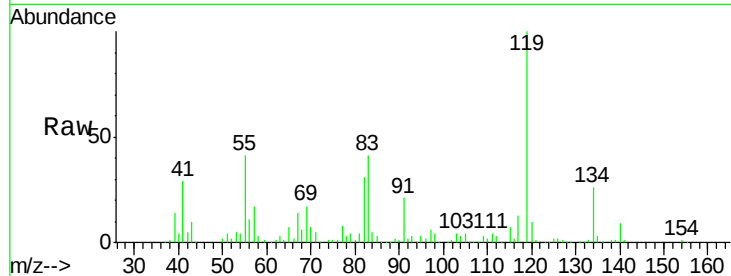
Time-->



#86
p-Isopropyltoluene
Concen: 52.015 ug/l
RT: 14.47 min Scan# 1325
Delta R.T. -0.02 min
Lab File: VD061272.D
Acq: 22 Mar 2019 20:27

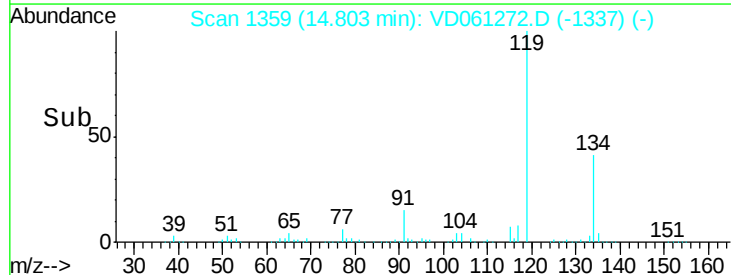
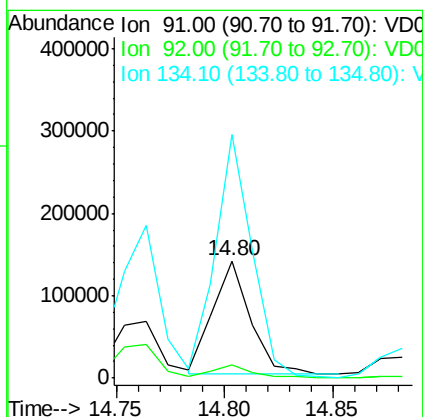
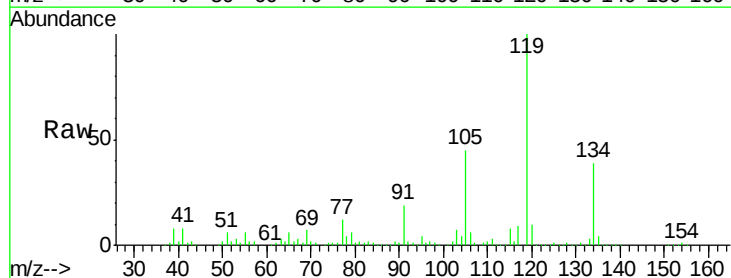
Instrument :
MSVOA_D
ClientSampled :
DRUM-1

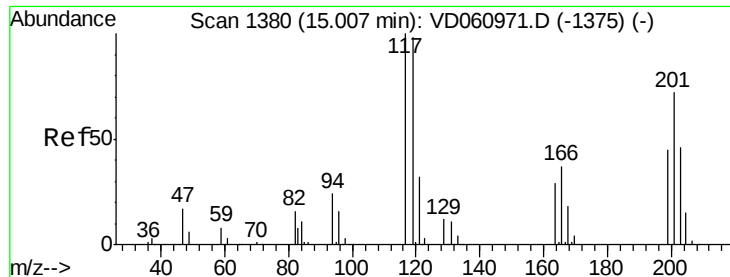
Tot Ion:119 Resp: 487709
Ion Ratio Lower Upper
119 100
134 26.3 12.0 36.1
91 21.2 11.2 33.6



#89
n-Butylbenzene
Concen: 18.615 ug/l
RT: 14.80 min Scan# 1359
Delta R.T. 0.01 min
Lab File: VD061272.D
Acq: 22 Mar 2019 20:27

Tgt Ion: 91 Resp: 167615
Ion Ratio Lower Upper
91 100
92 11.5 30.6 91.8#
134 207.2 11.0 33.0#

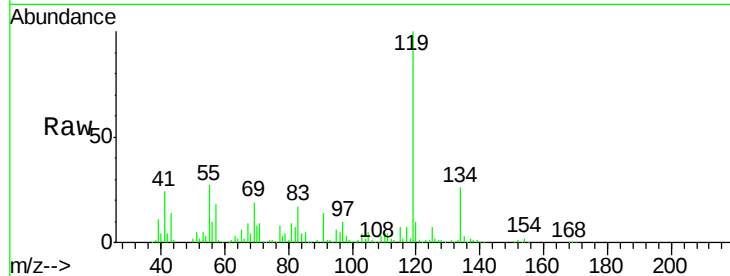




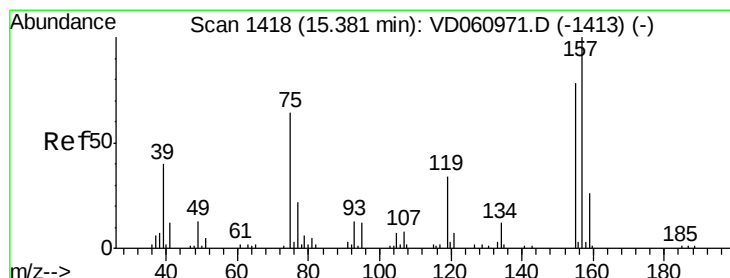
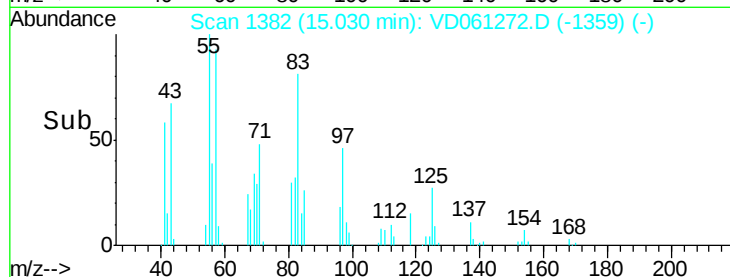
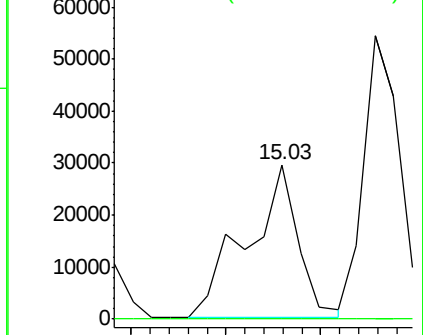
#90
Hexachloroethane
Concen: 20.914 ug/l
RT: 15.03 min Scan# 1382
Delta R.T. 0.02 min
Lab File: VD061272.D
Acq: 22 Mar 2019 20:27

Instrument :
MSVOA_D
ClientSampled :
DRUM-1

Tot Ion:117 Resp: 55371
Ion Ratio Lower Upper
117 100
201 0.0 36.2 108.6#

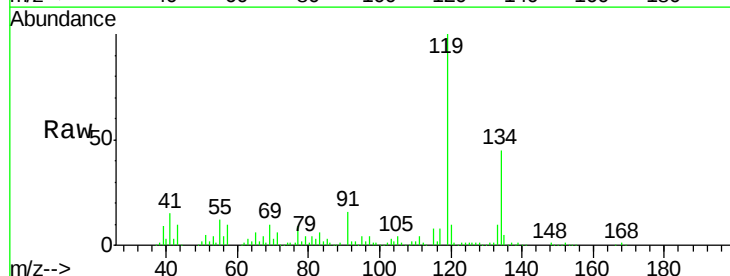


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 200.75 (200.45 to 201.45): V



#92
1,2-Dibromo-3-Chloropropane
Concen: 27.766 ug/l
RT: 15.40 min Scan# 1420
Delta R.T. 0.02 min
Lab File: VD061272.D
Acq: 22 Mar 2019 20:27

Tgt Ion: 75 Resp: 7383
Ion Ratio Lower Upper
75 100
155 14.6 61.2 183.5#
157 0.0 78.3 234.8#



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 154.90 (154.60 to 155.60): V
Ion 156.85 (156.55 to 157.55): V

